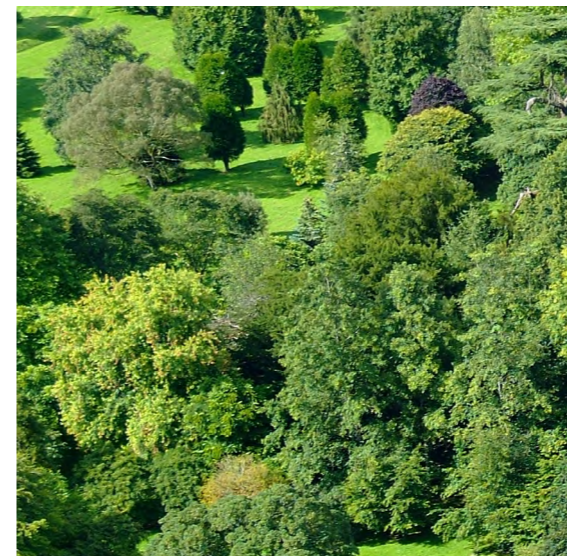
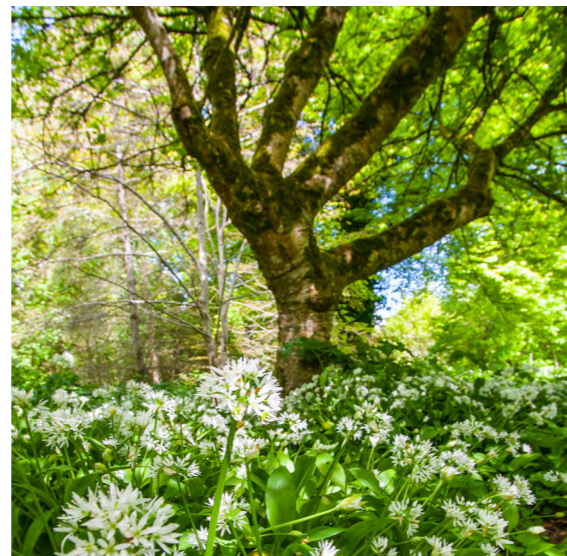




LACKENROE SHD

APPENDIX 6

Material Assets – Services, Infrastructure & Utilities



VOLUME III | Appendices

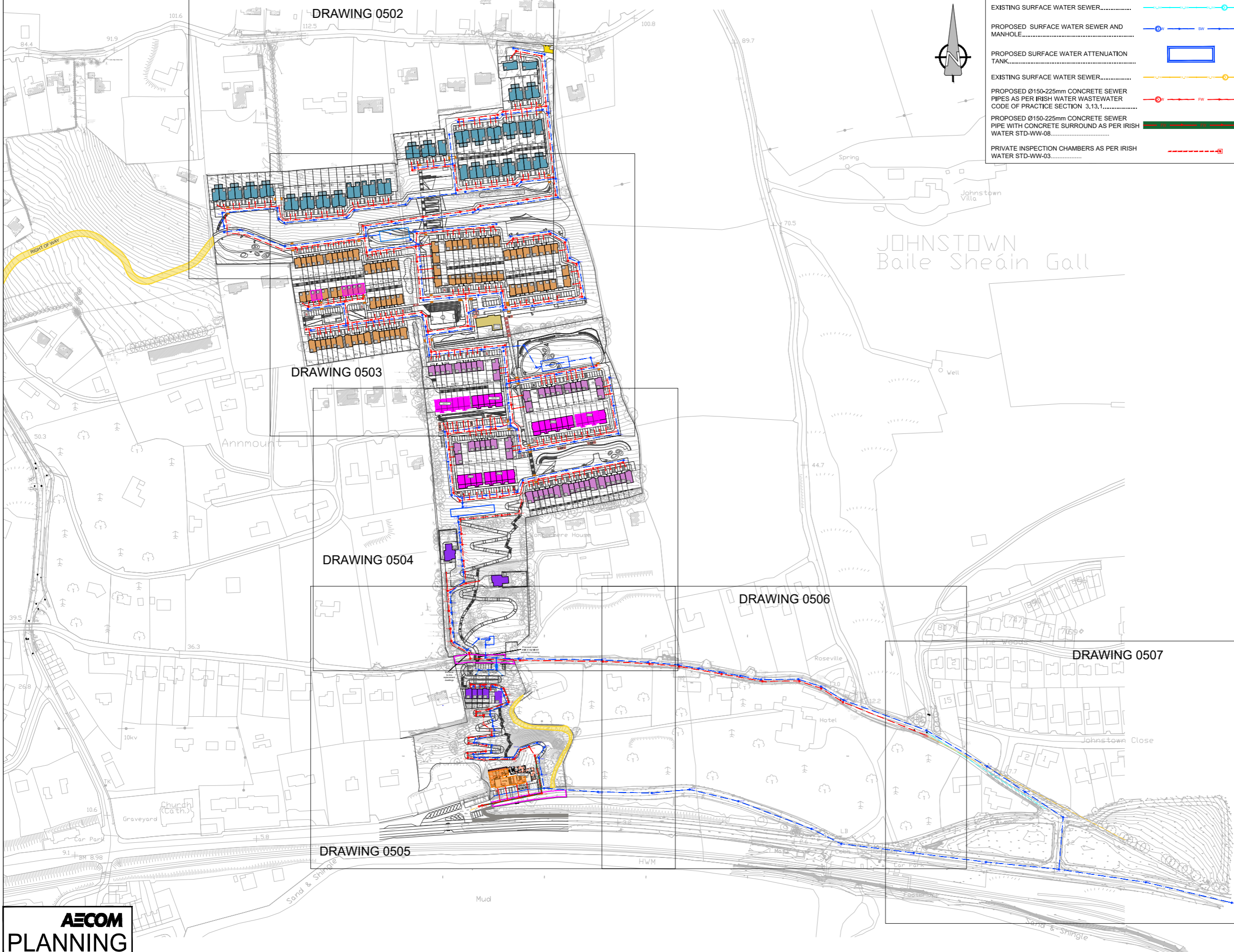
LACKENROE SHD

APPENDIX 6-1

Proposed Surface Water Drainage Drawings -
AECOM

VOLUME III | Appendices

ORDNANCE SURVEY IRELAND LICENCE No. CYAL50217544
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LEGEND:

- EXISTING SURFACE WATER SEWER.....
- PROPOSED SURFACE WATER SEWER AND MANHOLE.....
- PROPOSED SURFACE WATER ATTENUATION TANK.....
- EXISTING SURFACE WATER SEWER.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPES AS PER IRISH WATER WASTEWATER CODE OF PRACTICE SECTION 3.13.1.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPE WITH CONCRETE SURROUND AS PER IRISH WATER STD-WW-08.....
- PRIVATE INSPECTION CHAMBERS AS PER IRISH WATER STD-WW-03.....



PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT AT GLOUNTHAUNE, CO. CORK

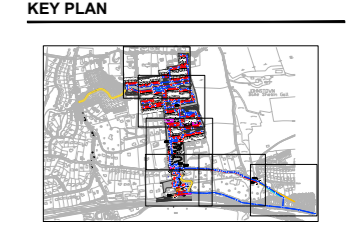
CLIENT
BLUESCAPE LTD

CONSULTANT
AECOM
Adelphi Plaza
George's Street Upper
Dun Laoghaire Co. Dublin
+353 (0) 1 238 3100 tel
+353 (0) 1 238 3199 fax
www.aecom.com

- NOTES**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS. ANY DISCREPANCIES, ERRORS OR OMISSIONS TO BE BROUGHT TO THE ATTENTION OF THE DESIGNER.
 2. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR ON SITE PRIOR TO COMMENCEMENT OF WORKS.
 3. AECOM LIMITED TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF WORKS ON SITE.
 4. DIMENSIONS OF ALL BOUNDARIES AND ADJOINING ROADS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORKS.
 5. DO NOT SCALE. ALL MEASUREMENTS AND COORDINATES TO BE CHECKED ON SITE.
 6. REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS OF OPEN SPACE AND LEVELS.
 7. THE PROPOSED SURFACE WATER SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATION OF SECTION 3 OF "RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS" (DEPARTMENT OF ENVIRONMENT & LOCAL GOVERNMENT 1998).
 8. ALL FOUL WATER DETAILS TO BE IN ACCORDANCE WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.
 9. SURFACE WATER & FOUL WATER SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE SHOULD BE PROTECTED FROM DAMAGE BY PROVIDING A 20m CONCRETE MUNCH ENCASUREMENT NOT LESS THAN 100mm THICK & HAVING MOVEMENT JOINTS FORMED WITH COMPRESSIVE BOARD AT EACH SOCKET OR SLEEVE JOINT FACE.
 10. ATTENUATION PROPOSALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF CORK COUNTY COUNCIL.
 11. EXISTING INVERT LEVELS TO BE VERIFIED ON SITE BEFORE COMMENCING CONSTRUCTION.

ISSUE/REVISION

NO	DATE	DESCRIPTION
0	03.12.2021	ISSUED FOR PLANNING



PROJECT NUMBER
60592432

SHEET TITLE
PROPOSED DRAINAGE LAYOUT SHEET 1 OF 7

SHEET NUMBER
60592432-ACM-00-00-DR-CE-10-0501

AECOM PLANNING

A PROPOSED DRAINAGE LAYOUT KEY PLAN - (SHEET 1 OF 7)

0501 Scale: 1:1750

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ISO A1 594mm x 841mm
 Approved: EMcK
 Checked: AP
 Designer: JC
 Project Management Initials:
 Last saved by: ALEEN PRENDERGAST (2021-10-26) Last Plotted: 2021-12-03
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SURFACE WATER NETWORK DETAILS										FOUL WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)	Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
S1.000	S1-0	31.308	1.252	25	107.300	106.048	108.786	225	1.261	F1.000	F1-0	25.594	0.450	57	107.000	106.550	108.700	150	1.552
S1.001	S1-1	57.546	1.918	30	106.048	104.130	107.486	225	1.213	F1.001	F1-1	49.643	1.867	27	106.550	104.683	107.900	150	1.200
S2.000	S2-0	38.663	0.859	45	106.500	105.641	107.871	225	1.146	F2.000	F2-0	38.513	0.642	60	106.370	105.728	107.724	150	1.204
S2.001	S2-1	6.184	0.137	45	105.641	105.504	107.221	225	1.155	F2.001	F2-1	6.339	0.106	60	105.728	105.622	107.083	150	1.205
S2.002	S2-2	39.985	0.889	45	105.504	104.615	106.977	225	1.168	F2.002	F2-2	42.560	0.948	45	105.622	104.677	106.973	150	1.201
S2.003	S2-3	6.479	0.259	25	104.615	104.356	106.018	225	1.178	F1.002	F1-2	70.519	3.983	18	104.275	100.292	106.103	150	1.678
S1.002	S1-2	85.418	3.271	20	104.000	100.729	105.685	225	1.460	F3.000	F3-0	41.652	0.694	60	104.376	103.682	106.938	150	2.412
S3.000	S3-0	51.129	0.639	80	101.800	101.161	103.316	225	1.291	F3.001	F3-1	24.370	1.311	19	103.682	102.371	105.392	150	1.560
S3.001	S3-1	5.937	0.074	80	101.161	101.087	102.585	225	1.199	F3.002	F3-2	56.933	0.712	80	102.371	101.659	103.745	150	1.224
S3.002	S3-2	34.165	0.427	80	101.087	100.660	102.526	225	1.214	F3.003	F3-3	8.300	0.098	85	101.659	101.561	103.258	150	1.449
S1.003	S1-3	18.464	0.615	30	100.400	99.785	101.959	300	1.259	F3.004	F3-4	31.110	0.891	35	101.561	100.670	103.020	150	1.309
S1.004	S1-4	39.615	1.981	20	99.785	97.804	101.341	300	1.256	F1.003	F1-3	17.730	0.610	29	100.200	99.590	102.044	225	1.619
S1.005	S1-5	39.615	1.981	20	97.804	95.823	99.532	300	1.428	F1.004	F1-4	28.460	1.294	22	99.590	98.296	101.434	225	1.619
S1.006	S1-6	6.220	0.311	20	95.823	95.512	97.245	300	1.122	F1.005	F1-5	46.536	2.115	22	98.000	95.885	100.116	225	1.891
S1.007	S1-7	50.591	2.530	20	94.800	92.270	96.857	300	1.757	F1.006	F1-6	6.640	0.302	22	95.885	95.583	97.420	225	1.310
S1.008	S1-8	55.971	2.799	20	91.300	88.501	93.797	300	2.197	F1.007	F1-7	14.483	0.658	22	95.405	94.747	97.014	225	1.384
S1.009	S1-9	8.427	0.421	20	88.300	87.879	89.746	300	1.146	F1.008	F1-8	36.766	1.671	22	94.193	92.522	96.172	225	1.754
S4.000	S4-0	29.223	1.461	20	105.500	104.039	107.584	225	1.859	F1.009	F1-9	31.436	1.429	22	91.645	90.216	93.947	225	2.077
S5.000	S5-0	37.642	1.075	35	105.000	103.925	106.402	225	1.177	F1.010	F1-10	28.508	1.296	22	89.558	88.262	91.641	225	1.858
S4.001	S4-1	29.087	1.454	20	103.200	101.746	105.215	225	1.790	F1.011	F1-11	12.176	0.553	22	87.400	86.847	89.687	225	2.062
S4.002	S4-2	45.698	2.285	20	101.500	99.215	103.193	225	1.468	F4.000	F4-0	40.658	0.678	60	98.900	98.222	100.649	150	1.599
S4.003	S4-3	7.239	0.241	30	99.215	98.974	100.685	225	1.245	F4.001	F4-1	10.781	0.180	60	98.222	98.042	100.193	150	1.821
S4.004	S4-4	50.509	0.631	80	98.974	98.343	100.438	225	1.239	F4.002	F4-2	58.388	0.973	60	98.042	97.069	100.073	150	1.881
S4.005	S4-5	10.849	0.136	80	98.343	98.207	99.852	225	1.285	F4.003	F4-3	4.897	0.082	60	97.069	96.988	99.420	150	2.201
S4.006	S4-6	32.024	0.400	80	98.207	97.807	99.700	225	1.268	F4.004	F4-4	3.426	0.057	60	96.988	96.930	99.368	150	2.230
S4.007	S4-7	29.244	0.335	87	97.807	97.472	99.320	225	1.288	F4.005	F4-5	10.431	0.174	60	96.930	96.757	99.317	150	2.237
S4.008	S4-8	6.762	0.098	69	97.472	97.374	98.985	225	1.288	F4.006	F4-6	52.919	2.405	22	96.682	94.276	99.194	225	2.287
S4.009	S4-9	10.707	0.128	84	97.374	97.246	98.898	225	1.299	F4.007	F4-7	10.288	0.488	22	93.038	92.570	96.785	225	3.522
S4.010	S4-10	54.449	1.869	29	97.000	95.131	99.050	225	1.825	F4.008	F4-8	5.491	0.250	22	90.825	90.575	94.000	225	2.950
S4.011	S4-11	7.395	0.492	15	93.500	93.008	96.636	225	2.911	F4.009	F4-9	7.945	0.361	22	88.800	88.439	92.000	225	2.975
S4.012	S4-12	5.618	0.375	15	91.500	91.125	94.000	225	2.275	F4.010	F4-10	11.088	0.055	200	88.439	88.383	90.564	225	1.900
S4.013	S4-13	6.198	0.354	18	89.500	89.146	92.000	225	2.275	F4.011	F4-11	8.859	0.044	200	88.383	88.339	91.231	225	2.623
S4.014	S4-13	15.612	0.158	99	89.146	88.988	90.534	225	1.163	F4.012	F4-12	36.224	1.228	30	88.339	87.111	90.780	225	2.216
S4.015	S4-15	47.988	0.600	80	88.988	88.388	91.321	225	2.108	F4.013	F4-13	13.802	0.230	60	87.111	86.881	88.542	225	1.206
S4.016	S4-16	79.602	0.918	87	88.388	87.470	89.521	225	0.908	F4.014	F4-14	68.504	0.343	200	86.881	86.539	88.320	225	1.214
S1.010	S1-10	3.826	0.203	19	87.395	87.192	89.135	300	1.440	F1.012	F1-12	13.867	0.069	200	86.539	86.469	88.952	225	2.188
S1.011	S1-11	2.044	0.032	64	87.192	87.160	90.000	300	2.508	F1.013	F1-13	48.770	0.244	200	86.469	86.225	88.180	225	1.486
S1.012	S1-12	38.004	0.253	150	87.085	86.832	90.000	375	2.540	F5.000	F5-0	75.458	1.258	60	89.647	88.389	92.904	150	3.107
S6.000	S6-0	63.011	1.800	35	91.000	89.200	92.973	225	1.748	F5.001	F5-1	12.890	0.215	60	88.389	88.174	90.145	150	1.606
S6.001	S6-1	17.526	0.501	35	89.200	88.699	90.717	225	1.292	F1.014	F1-14	14.953	0.075	200	86.225	86.151	89.525	225	3.075
S6.002	S6-2	5.241	0.150	35	88.699	88.549	90.147	225	1.223										
S1.013	S1-13	7.159	0.036	200	86.832	86.796	90.000	375	2.793										
S1.014	S1-14	9.132	0.046	199	86.796	86.750	90.000	375	2.829										
S7.000	S7-0	48.697	0.243	200	86.700	86.457	88.169	225	1.244										
S1.015	S1-15	21.513	0.215	100	86.307	86.092	89.572	375	2.890										

LEGEND:

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ORDNANCE SURVEY IRELAND LICENCE No. CYAL50217544
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A PROPOSED DRAINAGE LAYOUT - (SHEET 2 OF 7)
 0502 Scale: 1:500



PROJECT
 PROPOSED RESIDENTIAL DEVELOPMENT AT GLOUNTHAUNE, CO. CORK

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 BLUESCAPE LTD

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NO	DATE	DESCRIPTION
0	03.12.2021	ISSUED FOR PLANNING



PROJECT NUMBER
 60592432

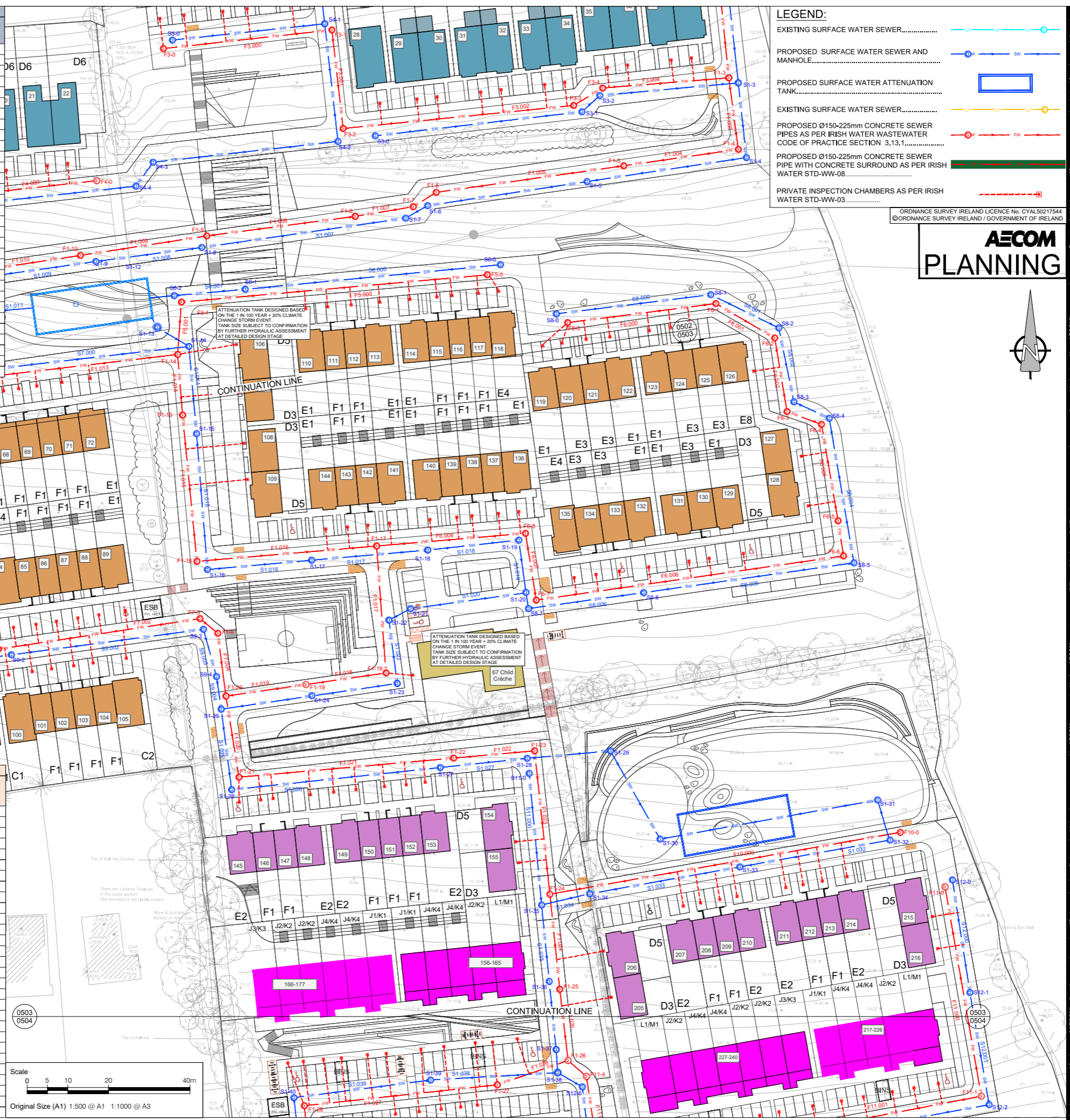
SHEET TITLE
 PROPOSED DRAINAGE LAYOUT
 SHEET 2 OF 7

SHEET NUMBER
 60592432-ACM-00-00-DR-CE-10-0502

ISO A1 594mm x 841mm
 Approved: EMcK
 Checked: AP
 Designer: JC
 Project Management Initials:
 Last saved by: ALEEN PRENDERGAST (2021-10-26) Last Plotted: 2021-12-03
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SURFACE WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
S1.016	S1-16	33.486	0.558	80	86.092	85.534	88.414	375	1.947
S1.017	S1-17	25.693	0.257	100	85.534	85.277	86.977	375	1.068
S1.018	S1-18	28.701	0.287	100	85.277	84.990	86.812	375	1.160
S1.019	S1-19	22.481	0.150	150	84.990	84.840	86.771	375	1.406
S1.020	S1-20	16.476	0.110	150	84.840	84.730	86.935	375	1.720
S8.000	S8-0	38.260	0.478	80	91.700	91.222	93.142	225	1.217
S8.001	S8-1	18.620	0.233	80	91.222	90.989	93.314	225	1.867
S8.002	S8-2	18.523	0.232	80	90.989	89.768	92.654	225	2.429
S8.003	S8-3	9.580	0.220	44	89.300	89.080	91.228	225	1.703
S8.004	S8-4	36.029	1.710	21	88.000	86.290	90.284	225	2.059
S8.005	S8-5	52.204	1.044	50	86.290	85.246	87.703	225	1.188
S8.006	S8-6	28.584	0.357	80	85.246	84.889	87.159	225	1.688
S1.021	S1-21	28.922	0.289	100	84.730	84.441	86.960	375	1.855
S1.022	S1-22	9.980	0.060	100	84.441	84.381	86.900	300	2.159
S1.023	S1-23	15.700	0.628	25	84.381	83.753	86.081	300	1.400
S1.024	S1-24	43.705	2.185	20	83.000	80.815	84.900	300	1.600
S9.000	S9-0	35.012	0.233	150	78.500	78.267	79.796	300	0.966
S10.000	S10-0	35.450	0.443	80	80.600	80.157	81.992	225	1.167
S10.001	S10-1	21.177	0.265	80	80.157	79.892	82.166	225	1.784
S9.001	S9-1	28.181	0.141	200	78.267	78.126	81.321	300	2.754
S9.002	S9-2	47.606	0.238	200	78.126	77.888	81.760	300	3.334
S9.003	S9-3	12.032	0.060	201	77.888	77.828	82.299	300	4.111
S9.004	S9-4	8.097	0.040	202	77.828	77.788	82.213	300	4.085
S1.025	S1-25	19.942	0.199	100	77.788	77.589	81.841	300	3.753
S1.026	S1-16	51.540	1.289	40	77.589	76.300	80.199	300	2.310
S1.027	S1-27	21.478	0.859	25	76.300	75.441	77.759	300	1.159
S1.028	S1-28	38.237	1.912	20	75.000	73.088	76.886	300	1.586
S11.000	S11-0	37.487	0.730	51	75.000	74.270	76.961	225	1.736
S11.001	S11-1	37.487	0.937	40	74.270	73.333	75.684	225	1.189
S11.002	S11-2	12.395	0.413	30	73.258	72.845	74.631	300	1.073
S1.029	S77	33.640	0.961	35	71.500	70.539	74.289	375	2.414

FOUL WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
F1.015	F1-15	38.096	1.141	32	86.151	85.010	88.779	225	2.403
F1.016	F1-16	44.321	0.222	200	85.010	84.788	87.472	225	2.237
F6.000	F6-0	36.716	0.612	60	91.332	90.720	92.682	150	1.200
F6.001	F6-1	16.755	0.279	80	90.720	90.441	92.300	150	1.430
F6.002	F6-2	18.342	0.864	21	90.441	89.577	91.965	150	1.374
F6.003	F6-3	9.033	0.695	13	89.500	88.805	90.927	150	1.277
F6.004	F6-4	24.025	1.848	13	88.805	86.957	90.155	150	1.200
F6.005	F6-5	8.731	0.275	32	86.957	86.682	88.318	150	1.211
F6.006	F6-6	76.268	0.953	80	86.682	85.729	88.032	150	1.200
F6.007	F6-7	16.621	0.208	80	85.729	85.521	87.100	150	1.221
F6.008	F6-8	36.726	0.288	128	85.446	85.158	87.152	225	1.481
F1.017	F1-17	31.207	1.419	22	84.621	83.202	87.346	225	2.500
F1.018	F1-18	19.868	0.903	22	82.194	81.291	85.018	225	2.599
F1.019	F1-19	19.868	0.903	22	79.791	78.888	83.416	225	3.400
F7.000	F7-0	41.539	0.692	60	78.050	77.358	79.400	150	1.200
F8.000	F8-0	35.918	0.599	60	81.075	80.476	82.425	150	1.200
F8.000	F8-0	18.080	0.301	60	81.345	81.044	82.695	150	1.200
F8.001	F8-1	10.776	0.180	60	80.476	80.296	82.600	150	1.974
F8.002	F8-2	10.776	0.180	60	78.900	78.720	82.010	150	2.960
F7.001	F7-1	22.991	0.115	200	77.283	77.168	81.420	225	3.912
F7.002	F7-2	50.143	0.251	200	77.168	76.917	81.850	225	4.457
F7.003	F7-3	5.668	0.028	200	76.917	76.889	82.128	225	4.986
F7.004	F7-4	15.552	0.078	200	76.889	76.811	82.155	225	5.041
F1.020	F1-20	20.177	0.101	200	76.811	76.710	81.813	225	4.777
F1.021	F1-21	52.965	0.265	200	76.710	76.445	80.414	225	3.479
F1.022	F1-22	19.986	0.908	22	76.445	75.537	78.226	225	1.556
F1.023	F1-23	37.453	1.702	22	74.455	72.753	77.026	225	2.346
F10.000	F10-0	87.705	1.462	60	74.290	72.828	76.620	150	2.180
F1.024	F1-24	21.461	0.976	22	71.964	70.988	74.178	225	1.989



AECOM

PROJECT
 PROPOSED RESIDENTIAL DEVELOPMENT AT GLOUNTHAUNE, CO. CORK

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 BLUESCAPE LTD

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NOTES

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- ALL FOUL WATER DETAILS TO BE IN ACCORDANCE WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.
- SURFACE WATER & FOUL WATER SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE SHOULD BE PROTECTED FROM DAMAGE BY PROVIDING A 20mm THICK CONCRETE MUNCH ENCASUREMENT NOT LESS THAN 100mm THICK & HAVING MOVEMENT JOINTS FORMED WITH COMPRESSIVE BOARD AT EACH SOCKET OR SLEEVE JOINT FACE.
- ATTENUATION PROPOSALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF CORK COUNTY COUNCIL.
- EXISTING INVERT LEVELS TO BE VERIFIED ON SITE BEFORE COMMENCING CONSTRUCTION.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	03.12.2021	ISSUED FOR PLANNING

KEY PLAN

PROJECT NUMBER
60592432

SHEET TITLE
PROPOSED DRAINAGE LAYOUT

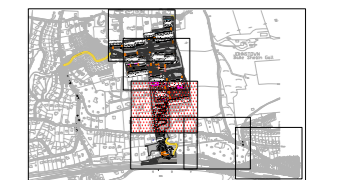
SHEET NUMBER
SHEET 3 OF 7

SHEET NUMBER
60592432-ACM-00-00-DR-CE-10-0503

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- ALL FOUL WATER DETAILS TO BE IN ACCORDANCE WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.
- SURFACE WATER & FOUL WATER SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE SHOULD BE PROTECTED FROM DAMAGE BY PROVIDING A 200mm CONCRETE HUNCH ENCASUREMENT NOT LESS THAN 100mm THICK & HAVING MOVEMENT JOINTS FORMED WITH COMPRESSIVE BOARD AT EACH SOCKET OR SLEEVE JOINT FACE.
- ATTENUATION PROPOSALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF CORK COUNTY COUNCIL.
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I/R	DATE	DESCRIPTION
0	03.12.2021	ISSUED FOR PLANNING



FOUL WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
F1.025	F1-25	17.602	0.800	22	70.345	69.545	72.414	225	1.844
F11.000	F11-0	52.194	3.017	17	74.500	71.483	76.585	150	1.935
F11.001	F11-1	45.889	1.015	45	71.483	70.468	72.836	150	1.203
F11.002	F11-2	49.617	2.255	22	70.393	68.137	71.984	225	1.366
F11.003	F11-3	22.348	0.112	200	68.137	68.026	69.675	225	1.313
F11.004	F11-4	5.967	0.030	200	68.026	67.996	71.050	225	2.799
F1.026	F1-26	18.385	0.836	22	67.545	66.709	70.970	225	3.200
F1.027	F1-27	47.699	0.318	150	66.709	66.391	69.910	225	2.976
F1.028	F1-28	15.503	0.705	22	66.391	65.686	68.849	225	2.233
F1.029	F1-29	15.309	0.696	22	65.686	64.990	68.140	225	2.229
F1.030	F1-30	27.542	1.252	22	64.990	63.738	67.121	225	1.906
F1.031	F1-31	9.927	0.451	22	62.950	62.499	65.338	225	2.163
F1.032	F1-32	39.727	0.265	150	62.499	62.234	64.790	225	2.066
F1.033	F1-33	20.571	0.137	150	62.234	62.097	65.019	225	2.560
F12.000	F12-0	29.901	0.498	60	63.381	62.883	64.731	150	1.200
F12.001	F12-1	54.696	0.405	135	62.883	62.478	64.347	150	1.314
F12.002	F12-2	15.499	0.115	135	62.478	62.363	63.647	150	1.019
F12.003	F12-3	10.732	0.079	135	62.363	62.284	64.161	150	1.648
F1.034	F1-34	7.826	0.356	22	62.097	61.741	64.784	225	2.442
F1.035	F1-35	12.580	0.572	22	59.891	59.319	63.631	225	3.515
F1.036	F1-36	17.000	0.773	22	59.319	58.546	62.780	225	3.216
F1.037	F1-37	40.979	1.863	22	58.546	56.683	61.450	225	2.679
F1.038	F1-38	14.180	0.645	22	54.970	54.325	58.472	225	3.277
F1.039	F1-39	10.617	0.483	22	52.058	51.575	55.750	225	3.467
F1.040	F1-40	7.980	0.363	22	49.800	49.438	53.000	225	2.975
F1.041	F1-41	7.980	0.363	22	48.133	47.770	51.750	225	3.392
F1.042	F1-42	10.884	0.495	22	46.270	45.775	50.500	225	4.005
F1.043	F1-43	11.637	0.529	22	44.000	43.471	47.200	225	2.975
F1.044	F1-44	19.448	0.884	22	42.750	41.866	45.950	225	2.975
F1.045	F1-45	9.926	0.451	22	41.127	40.676	45.600	225	4.248
F1.046	F1-46	9.926	0.451	22	39.676	39.225	43.625	225	3.724
F1.047	F1-47	17.626	0.801	22	37.776	36.975	41.650	225	3.649

SURFACE WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
S1.030	S1-30	6.901	0.222	31	70.539	70.317	72.152	375	1.238
S12.000	S12-0	27.986	0.709	40	73.500	72.791	76.394	225	2.669
S12.001	S12-1	27.959	0.709	39	72.791	72.082	74.443	225	1.427
S12.002	S12-2	44.285	1.755	25	72.082	70.327	72.538	225	0.231
S12.003	S12-3	40.226	1.609	25	70.327	68.718	71.368	225	0.816
S12.004	S12-4	14.337	0.484	30	68.718	68.234	70.344	225	1.401
S12.005	S12-5	20.515	0.140	147	68.234	68.095	69.974	225	1.515
S12.006	S84	5.889	0.140	42	68.095	67.955	70.944	225	2.625
S1.031	S1-31	33.766	0.368	92	67.730	67.362	71.914	450	3.734
S1.032	S1-32	33.874	0.539	63	67.362	66.823	70.195	450	2.383
S1.033	S1-33	29.561	1.478	20	66.823	65.345	68.500	450	1.227
S1.034	S1-34	33.090	1.655	20	65.345	63.890	67.000	450	1.205
S1.035	S1-35	10.699	0.713	15	63.890	62.977	65.200	450	1.060
S13.000	S13-0	57.517	0.574	100	63.500	62.926	65.000	225	1.275
S13.001	S13-1	43.660	0.437	100	62.926	62.489	64.700	225	1.549
S13.002	S13-2	12.661	0.127	100	62.489	62.362	65.000	225	2.286
S13.003	S13-3	30.940	0.309	100	62.362	62.053	64.950	225	2.363
S13.004	S13-4	23.772	0.237	101	62.053	61.816	64.700	225	2.422
S1.036	S1-36	8.851	0.590	15	61.500	60.910	64.700	450	2.750
S1.037	S1-37	1.987	0.103	19	60.910	60.807	62.000	450	0.640
S1.038	S1-38	34.225	0.811	42	60.807	59.996	62.000	450	0.743
S1.039	S1-39	5.949	0.193	31	59.996	59.803	61.000	375	0.629
S1.040	S1-38	39.773	3.332	12	58.500	55.168	60.759	300	1.959
S1.041	S1-39	22.177	1.391	16	55.000	53.609	57.800	300	2.300
S1.042	S1-40	11.498	0.958	12	52.000	51.042	55.000	300	2.700
S1.043	S1-41	11.498	0.958	12	50.100	49.142	52.000	300	1.600
S1.044	S48.5	9.974	0.831	12	48.800	47.969	50.500	300	1.400
S1.045	S1-43	9.061	0.787	12	46.500	45.713	49.240	300	2.440
S1.046	S1-44	17.313	0.892	20	44.600	43.718	47.000	300	2.100
S1.047	S1-45	10.000	0.833	12	42.700	41.867	45.200	300	2.200
S1.048	S1-46	10.000	0.833	12	40.800	39.967	43.200	300	2.100
S1.049	S1-47	10.000	0.833	12	39.000	38.167	41.300	300	2.000
S1.050	S1-48	9.796	0.816	12	37.000	36.184	39.300	300	2.000

ORDNANCE SURVEY IRELAND LICENCE No. CYALS0217544
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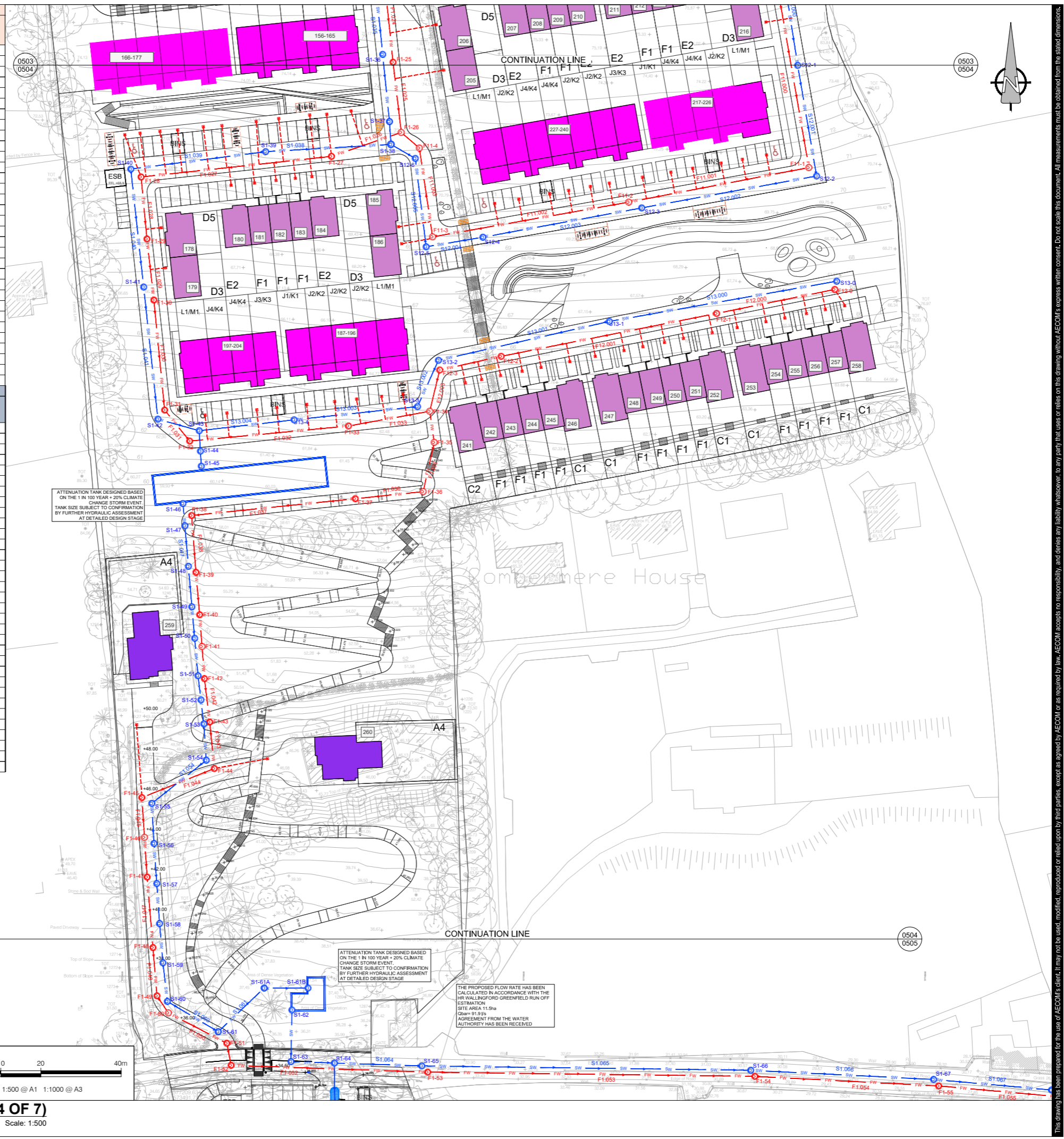


LEGEND:

- EXISTING SURFACE WATER SEWER.....
- PROPOSED SURFACE WATER SEWER AND MANHOLE.....
- PROPOSED SURFACE WATER ATTENUATION TANK.....
- EXISTING SURFACE WATER SEWER.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPES AS PER IRISH WATER WASTEWATER CODE OF PRACTICE SECTION 3.13.1.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPE WITH CONCRETE SURROUND AS PER IRISH WATER STD-WW-08.....
- PRIVATE INSPECTION CHAMBERS AS PER IRISH WATER STD-WW-03.....

A PROPOSED DRAINAGE LAYOUT - (SHEET 4 OF 7)

Scale: 1:500



CONSULTANT

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ISSUE/REVISION

I/R	DATE	DESCRIPTION
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KEY PLAN



PROJECT NUMBER

60592432

SHEET TITLE

PROPOSED DRAINAGE LAYOUT SHEET 5 OF 7

SHEET NUMBER

60592432-ACM-00-00-DR-CE-10-0505

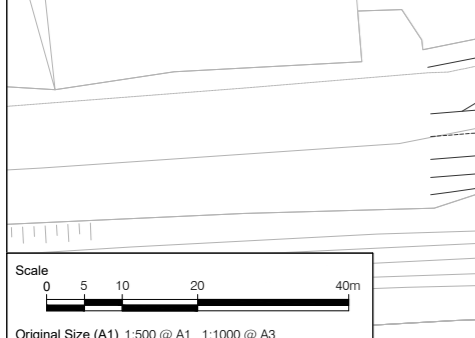
LEGEND:

- EXISTING SURFACE WATER SEWER.....
- PROPOSED SURFACE WATER SEWER AND MANHOLE.....
- PROPOSED SURFACE WATER ATTENUATION TANK.....
- EXISTING SURFACE WATER SEWER.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPES AS PER IRISH WATER WASTEWATER CODE OF PRACTICE SECTION 3.13.1.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPE WITH CONCRETE SURROUND AS PER IRISH WATER STD-WW-08.....
- PRIVATE INSPECTION CHAMBERS AS PER IRISH WATER STD-WW-03.....



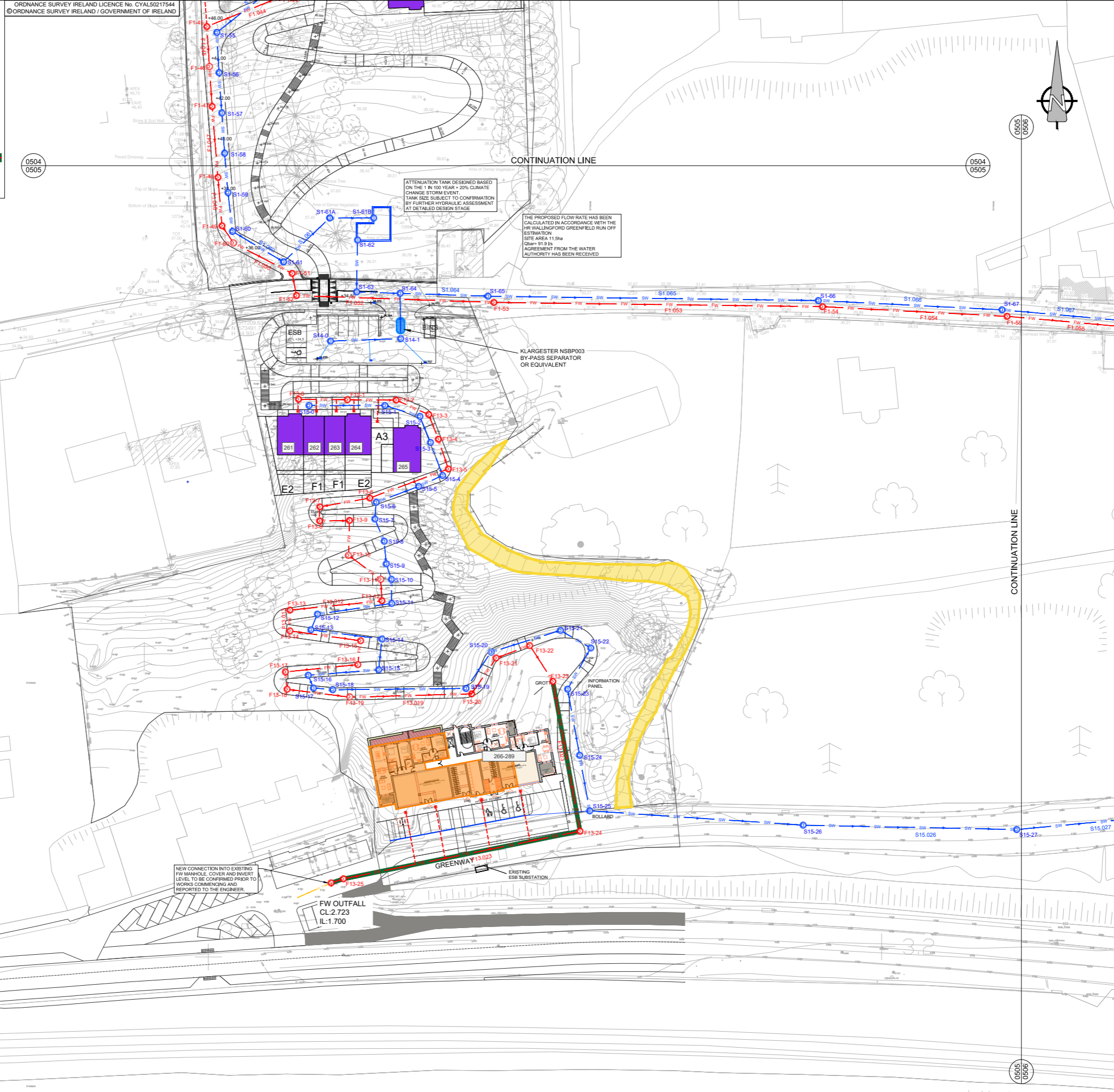
PN	USMH	Length (m)	Slope (1:X)	USCL (m)	USIL (m)	DSIL (m)	Dia (mm)
F13.000	F13-0	12.201	60.1	28.400	27.300	27.097	150
F13.001	F13-1	12.063	60.0	27.830	26.400	26.199	150
F13.002	F13-2	8.847	60.0	27.200	26.199	26.052	150
F13.003	F13-3	6.553	40.0	27.707	25.600	25.436	150
F13.004	F13-4	7.779	20.0	26.300	25.200	24.811	150
F13.005	F13-5	20.776	20.0	25.800	24.500	23.461	150
F13.006	F13-6	12.564	20.0	24.500	23.200	22.572	150
F13.007	F13-7	3.502	20.0	23.600	22.500	22.325	150
F13.008	F13-8	7.465	50.0	23.400	22.000	21.851	150
F13.009	F13-9	8.549	15.0	22.900	20.800	20.230	150
F13.010	F13-10	9.972	25.0	21.000	19.000	18.601	150
F13.011	F13-11	5.377	13.0	19.787	17.100	16.686	150
F13.012	F13-12	22.976	20.0	17.500	15.500	14.351	150
F13.013	F13-13	5.168	20.0	16.200	14.200	13.942	150
F13.014	F13-14	17.706	50.0	15.900	13.900	13.546	150
F13.015	F13-15	5.965	15.0	15.000	13.000	12.602	150
F13.016	F13-16	18.054	30.0	13.735	12.000	11.398	150
F13.017	F13-17	4.311	20.0	12.400	11.000	10.784	150
F13.018	F13-18	15.739	13.0	12.300	10.100	8.889	150
F13.019	F13-19	30.184	20.9	9.650	8.800	7.358	150
F13.020	F13-20	10.751	50.0	9.100	7.300	7.085	150
F13.021	F13-21	8.966	20.0	8.203	7.000	6.552	150
F13.022	F13-22	10.539	20.0	7.496	5.300	4.773	150
F13.023	F13-23	37.749	20.0	5.600	4.000	2.113	150
F13.024	F13-24	59.935	225.3	2.700	2.038	1.772	225
F13.025	F13-25	3.181	227.2	2.725	1.772	1.758	225

PN	USMH	Length (m)	Slope (1:X)	USCL (m)	USIL (m)	DSIL (m)	Dia (mm)
S15.000	S15-0	18.804	40.0	28.300	27.000	26.530	225
S15.001	S15-1	9.098	25.0	27.600	26.400	26.036	225
S15.002	S15-2	6.980	25.0	27.600	25.700	25.421	225
S15.003	S15-3	8.735	25.0	26.300	25.000	24.651	225
S15.004	S15-4	6.537	20.0	25.700	24.600	24.273	225
S15.005	S15-5	11.237	20.0	25.300	24.200	23.638	225
S15.006	S15-6	4.169	10.0	24.500	22.200	21.783	225
S15.007	S15-7	5.981	20.0	22.500	21.000	20.701	225
S15.008	S15-8	5.594	20.0	21.700	19.500	19.220	225
S15.009	S15-8	4.032	25.2	20.300	18.500	18.340	225
S15.010	S15-10	5.992	22.5	19.400	17.300	17.034	225
S15.011	S15-11	18.620	40.0	18.000	15.800	15.335	225
S15.012	S15-12	4.192	30.0	16.700	15.000	14.860	225
S15.013	S15-13	17.772	50.1	15.500	14.300	13.945	225
S15.014	S15-14	7.672	60.0	14.900	13.800	13.672	225
S15.015	S15-15	17.517	12.0	15.700	13.300	11.840	225
S15.016	S15-16	3.410	15.0	12.800	11.300	11.073	225
S15.017	S15-17	4.800	25.3	11.900	10.800	10.610	225
S15.018	S15-18	33.051	20.0	11.500	10.000	8.347	225
S15.019	S15-19	10.982	19.2	9.100	8.200	7.628	225
S15.020	S15-20	18.001	18.4	8.400	7.300	6.320	225
S15.021	S15-21	8.685	25.0	6.900	5.500	5.153	225
S15.022	S15-22	11.718	50.0	5.884	5.153	4.918	225
S15.023	S15-23	16.645	30.0	5.900	4.000	3.445	225
S15.024	S15-24	14.019	60.0	4.000	3.300	3.066	225
S15.025	S15-25	53.073	350.0	3.500	2.800	2.648	300
S15.026	S15-26	52.973	350.0	3.000	2.648	2.497	300
S15.027	S15-27	37.373	350.0	2.915	2.497	2.390	300
S15.028	S15-28	49.399	401.6	2.900	2.390	2.267	300
S15.029	S15-29	76.851	400.3	3.000	2.267	2.075	300
S15.030	S15-30	32.833	400.4	2.900	2.075	1.993	300
S15.031	S15-31	71.778	401.0	3.250	1.993	1.814	300
S15.032	S15-32	71.777	401.0	3.310	1.814	1.635	300
S15.033	S15-33	72.143	400.8	3.370	1.635	1.455	300



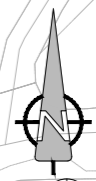
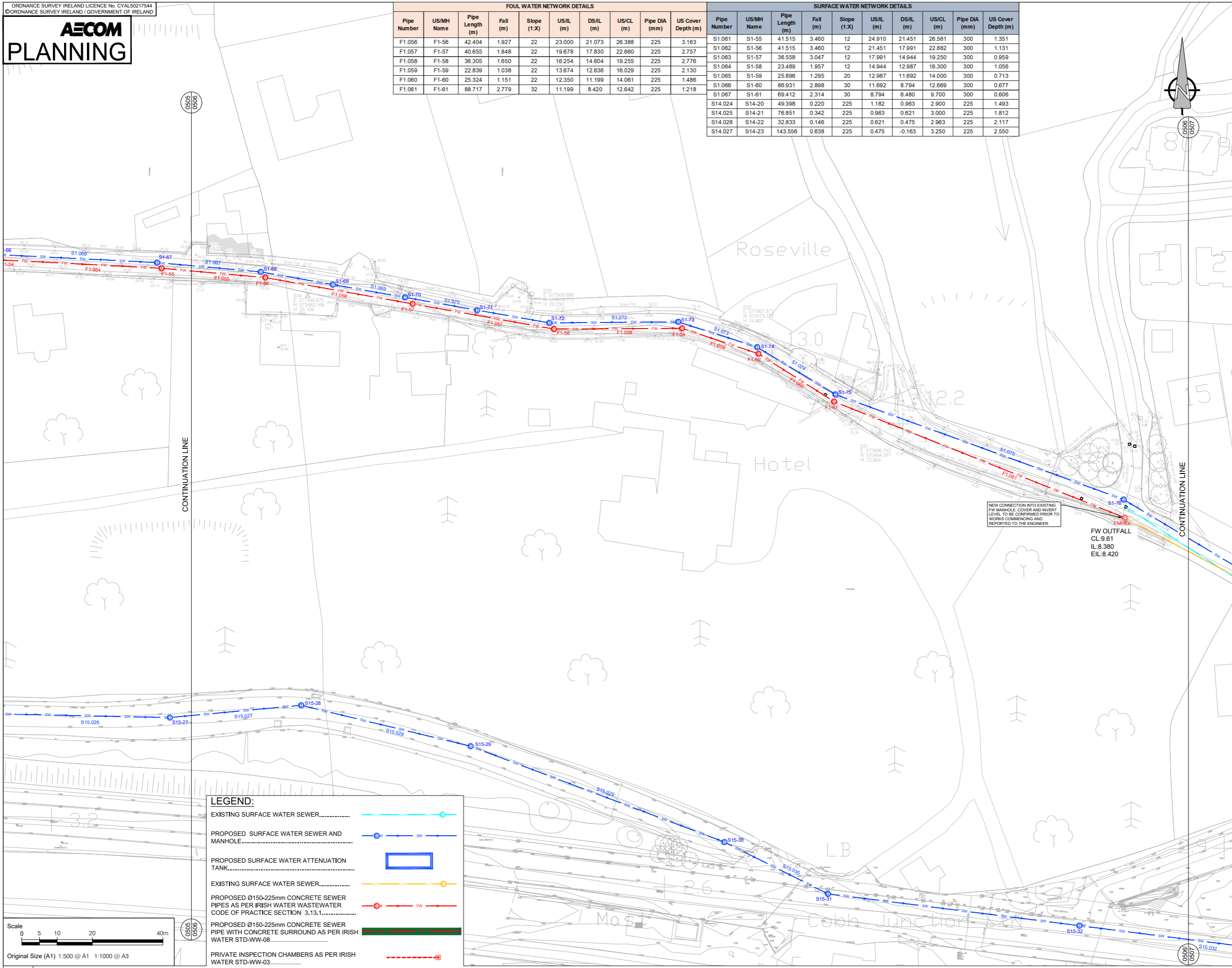
A PROPOSED DRAINAGE LAYOUT - (SHEET 5 OF 7)

0505 Scale: 1:500



Project Management Initials: Designer: JC
 Checked: AP
 Approved: EMck
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 Last saved by: AILEEN PRENDERGAST (2021-10-26) Last Plotted: 2021-12-03
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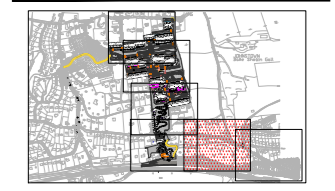
FOUL WATER NETWORK DETAILS										SURFACE WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)	Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
F1.056	F1-56	42.404	1.927	22	23.000	21.073	26.388	225	3.163	S1.061	S1-55	41.515	3.460	12	24.910	21.451	26.561	300	1.351
F1.057	F1-57	40.655	1.848	22	19.678	17.830	22.680	225	2.757	S1.062	S1-56	41.515	3.460	12	21.451	17.991	22.882	300	1.131
F1.058	F1-58	36.305	1.650	22	16.254	14.604	19.255	225	2.776	S1.063	S1-57	36.558	3.047	12	17.991	14.944	19.250	300	0.959
F1.059	F1-59	22.839	1.038	22	13.674	12.636	16.029	225	2.130	S1.064	S1-58	23.489	1.957	12	14.944	12.987	16.300	300	1.056
F1.060	F1-60	25.324	1.151	22	12.350	11.199	14.061	225	1.486	S1.065	S1-59	25.896	1.295	20	12.987	11.692	14.000	300	0.713
F1.061	F1-61	88.717	2.779	32	11.199	8.420	12.642	225	1.218	S1.066	S1-60	86.931	2.898	30	11.692	8.794	12.669	300	0.677
										S1.067	S1-61	69.412	2.314	30	8.794	6.480	9.700	300	0.606
										S14.024	S14-20	49.398	0.220	225	1.182	0.963	2.900	225	1.493
										S14.025	S14-21	76.851	0.342	225	0.963	0.621	3.000	225	1.812
										S14.026	S14-22	32.833	0.146	225	0.621	0.475	2.963	225	2.117
										S14.027	S14-23	143.556	0.638	225	0.475	-0.163	3.250	225	2.550



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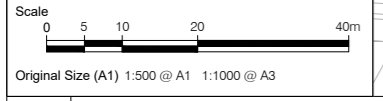
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I/R	DATE	DESCRIPTION
0	03.12.2021	ISSUED FOR PLANNING



LEGEND:

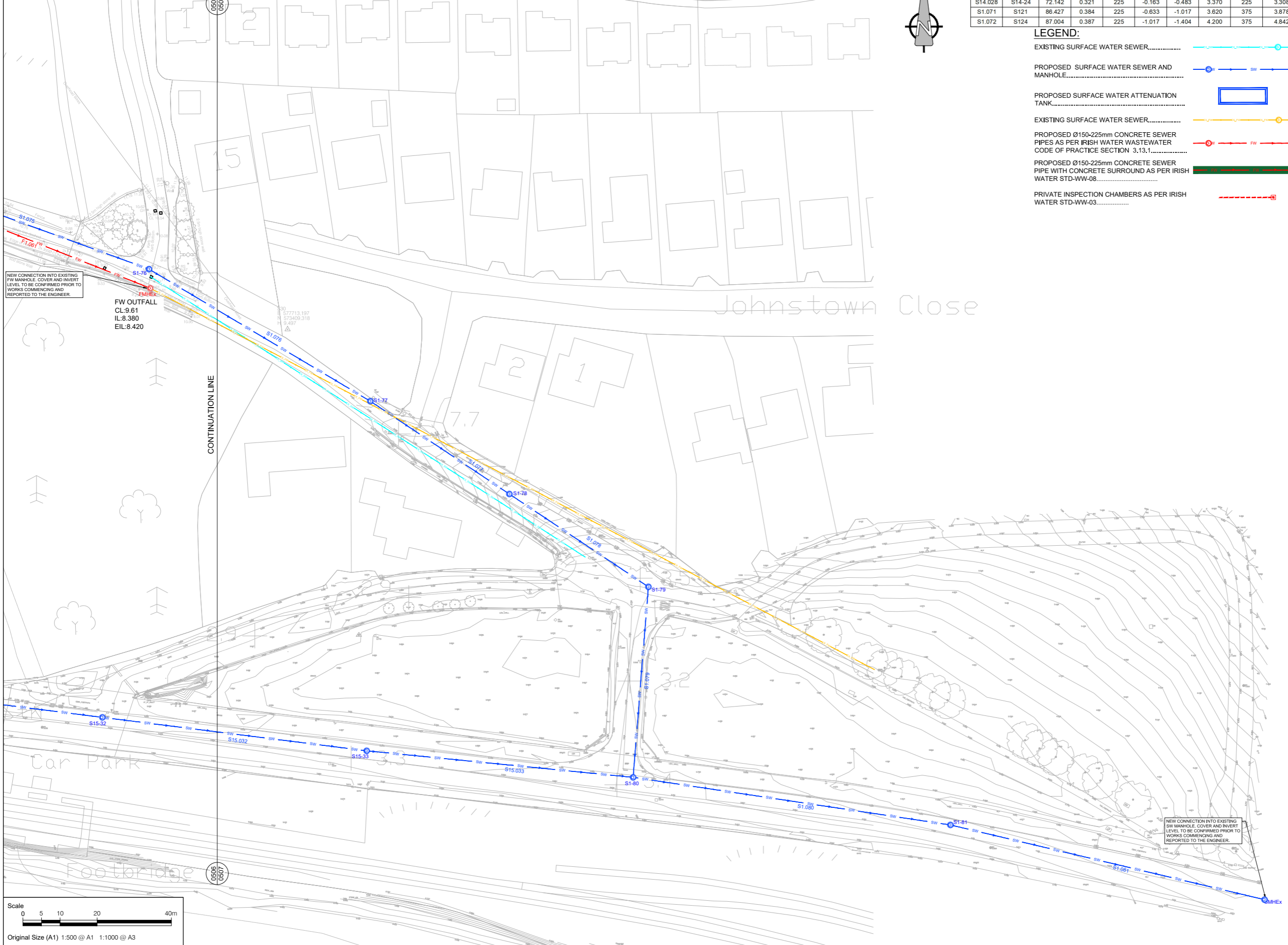
- EXISTING SURFACE WATER SEWER.....
- PROPOSED SURFACE WATER SEWER AND MANHOLE.....
- PROPOSED SURFACE WATER ATTENUATION TANK.....
- EXISTING SURFACE WATER SEWER.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPES AS PER IRISH WATER WASTEWATER CODE OF PRACTICE SECTION 3.13.1.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPE WITH CONCRETE SURROUND AS PER IRISH WATER STD-WW-08.....
- PRIVATE INSPECTION CHAMBERS AS PER IRISH WATER STD-WW-03.....



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ISO A1 594mm x 841mm
 Approved: EMck
 Checked: AP
 Designer: JC
 Project Management Initials:
 Last saved by: ALLEN PRENDERGAST (2021-10-26)
 File name: \\EU\AECOM\NET\COM\KIE\B2\JOB\PR-333515_GLOUNTHAUNE_PHASE_2\900_CAD_GIS\904_CEO1_WIP\02_SHEETS\05\2432-ACM-00-00-DR-CE-10-0501.DWG

ORDNANCE SURVEY IRELAND LICENCE No. CYAL50217544
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SURFACE WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/L (m)	DS/L (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
S1.068	S1-62	45.039	1.501	30	6.480	4.979	8.400	300	1.620
S1.069	S126	45.039	1.501	30	4.979	3.478	6.300	300	1.021
S1.070	S1-83	51.463	0.257	200	3.000	2.743	4.000	375	0.625
S14.028	S14-24	72.142	0.321	225	-0.163	-0.483	3.370	225	3.308
S1.071	S121	86.427	0.384	225	-0.633	-1.017	3.620	375	3.878
S1.072	S124	87.004	0.387	225	-1.017	-1.404	4.200	375	4.842

- LEGEND:**
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 - PROPOSED SURFACE WATER SEWER AND MANHOLE.....
 - PROPOSED SURFACE WATER ATTENUATION TANK.....
 - EXISTING SURFACE WATER SEWER.....
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 - PRIVATE INSPECTION CHAMBERS AS PER IRISH WATER STD-WW-03.....



PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT AT GLOUNTHAUNE, CO. CORK

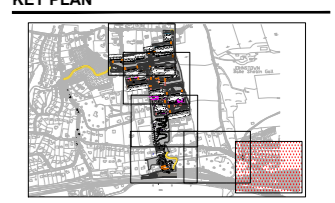
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BLUESCAPE LTD

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 George's Street Upper
 Dun Laoghaire Co. Dublin
 +353 (0) 1 238 3100 tel
 +353 (0) 1 238 3199 fax
 www.aecom.com

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I/R	DATE	DESCRIPTION
0	03.12.2021	ISSUED FOR PLANNING



PROJECT NUMBER
 60592432

SHEET TITLE
 PROPOSED DRAINAGE LAYOUT SHEET 7 OF 7

SHEET NUMBER
 60592432-ACM-00-00-DR-CE-10-0507

A PROPOSED DRAINAGE LAYOUT - (SHEET 7 OF 7)
 0507 Scale: 1:500



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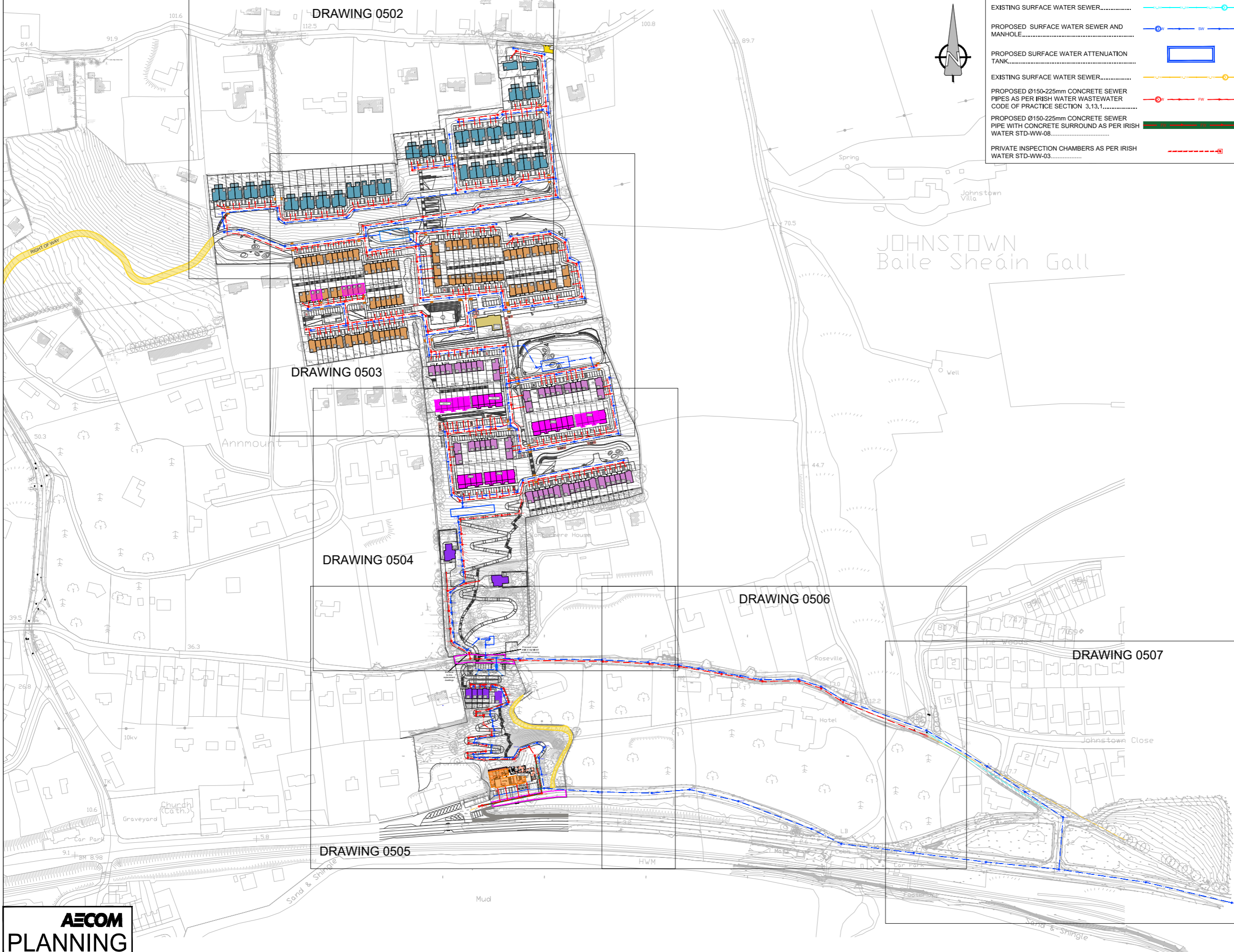
LACKENROE SHD

APPENDIX 6-2

Proposed Wastewater Drainage Drawings -
AECOM

VOLUME III | Appendices

ORDNANCE SURVEY IRELAND LICENCE No. CYAL50217544
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LEGEND:

- EXISTING SURFACE WATER SEWER.....
- PROPOSED SURFACE WATER SEWER AND MANHOLE.....
- PROPOSED SURFACE WATER ATTENUATION TANK.....
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PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT AT GLOUNTHAUNE, CO. CORK

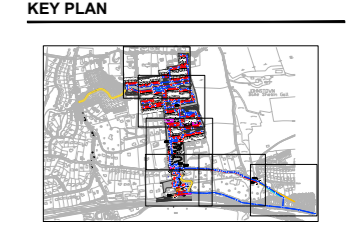
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ISSUE/REVISION

NO	DATE	DESCRIPTION
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PROJECT NUMBER
60592432

SHEET TITLE
PROPOSED DRAINAGE LAYOUT SHEET 1 OF 7

SHEET NUMBER
60592432-ACM-00-00-DR-CE-10-0501

AECOM PLANNING

A PROPOSED DRAINAGE LAYOUT KEY PLAN - (SHEET 1 OF 7)

0501 Scale: 1:1750

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 Project Management Initials:
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SURFACE WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
S1.000	S1-0	31.308	1.252	25	107.300	106.048	108.786	225	1.261
S1.001	S1-1	57.546	1.918	30	106.048	104.130	107.486	225	1.213
S2.000	S2-0	38.663	0.859	45	106.500	105.641	107.871	225	1.146
S2.001	S2-1	6.184	0.137	45	105.641	105.504	107.221	225	1.155
S2.002	S2-2	39.985	0.889	45	105.504	104.615	106.997	225	1.168
S2.003	S2-3	6.479	0.259	25	104.615	104.356	106.018	225	1.178
S1.002	S1-2	85.418	3.271	20	104.000	100.729	105.685	225	1.460
S3.000	S3-0	51.129	0.639	80	101.800	101.161	103.316	225	1.291
S3.001	S3-1	5.937	0.074	80	101.161	101.087	102.585	225	1.199
S3.002	S3-2	34.165	0.427	80	101.087	100.660	102.526	225	1.214
S1.003	S1-3	18.464	0.615	30	100.400	99.785	101.959	300	1.259
S1.004	S1-4	39.615	1.981	20	99.785	97.804	101.341	300	1.256
S1.005	S1-5	39.615	1.981	20	97.804	95.823	99.532	300	1.428
S1.006	S1-6	6.220	0.311	20	95.823	95.512	97.245	300	1.122
S1.007	S1-7	50.591	2.530	20	94.800	92.270	96.857	300	1.757
S1.008	S1-8	55.971	2.799	20	91.300	88.501	93.797	300	2.197
S1.009	S1-9	8.427	0.421	20	88.300	87.879	89.746	300	1.146
S4.000	S4-0	29.223	1.461	20	105.500	104.039	107.584	225	1.859
S5.000	S5-0	37.842	1.075	35	105.000	103.925	106.402	225	1.177
S4.001	S4-1	29.087	1.454	20	103.200	101.746	105.215	225	1.790
S4.002	S4-2	45.698	2.285	20	101.500	99.215	103.193	225	1.468
S4.003	S4-3	7.239	0.241	30	99.215	98.974	100.685	225	1.245
S4.004	S4-4	50.509	0.631	80	98.974	98.343	100.438	225	1.239
S4.005	S4-5	10.849	0.136	80	98.343	98.207	99.852	225	1.285
S4.006	S4-6	32.024	0.400	80	98.207	97.807	99.700	225	1.268
S4.007	S4-7	29.244	0.335	87	97.807	97.472	99.320	225	1.288
S4.008	S4-8	6.762	0.098	69	97.472	97.374	98.985	225	1.288
S4.009	S4-9	10.707	0.128	84	97.374	97.246	98.898	225	1.299
S4.010	S4-10	54.449	1.869	29	97.000	95.131	99.050	225	1.825
S4.011	S4-11	7.395	0.492	15	93.500	93.008	96.636	225	2.911
S4.012	S4-12	5.618	0.375	15	91.500	91.125	94.000	225	2.275
S4.013	S4-13	6.198	0.354	18	89.500	89.146	92.000	225	2.275
S4.014	S4-13	15.612	0.158	99	89.146	88.988	90.534	225	1.163
S4.015	S4-15	47.988	0.600	80	88.988	88.388	91.321	225	2.108
S4.016	S4-16	79.602	0.918	87	88.388	87.470	89.521	225	0.908
S1.010	S1-10	3.826	0.203	19	87.395	87.192	89.135	300	1.440
S1.011	S1-11	2.044	0.032	64	87.192	87.160	90.000	300	2.508
S1.012	S1-12	38.004	0.253	150	87.085	86.832	90.000	375	2.540
S6.000	S6-0	63.011	1.800	35	91.000	89.200	92.973	225	1.748
S6.001	S6-1	17.526	0.501	35	89.200	88.699	90.717	225	1.292
S6.002	S6-2	5.241	0.150	35	88.699	88.549	90.147	225	1.223
S1.013	S1-13	7.159	0.036	200	86.832	86.796	90.000	375	2.793
S1.014	S1-14	9.132	0.046	199	86.796	86.750	90.000	375	2.829
S7.000	S7-0	48.697	0.243	200	86.700	86.457	88.169	225	1.244
S1.015	S1-15	21.513	0.215	100	86.307	86.092	89.572	375	2.890

FOUL WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
F1.000	F1-0	25.594	0.450	57	107.000	106.550	108.700	150	1.552
F1.001	F1-1	49.643	1.867	27	106.550	104.683	107.900	150	1.200
F2.000	F2-0	38.513	0.642	60	106.370	105.728	107.724	150	1.204
F2.001	F2-1	6.339	0.106	60	105.728	105.622	107.083	150	1.205
F2.002	F2-2	42.560	0.948	45	105.622	104.677	106.973	150	1.201
F1.002	F1-2	70.519	3.983	18	104.275	100.292	106.103	150	1.678
F3.000	F3-0	41.652	0.694	60	104.376	103.682	106.938	150	2.412
F3.001	F3-1	24.370	1.311	19	103.682	102.371	105.392	150	1.560
F3.002	F3-2	56.933	0.712	80	102.371	101.659	103.745	150	1.224
F3.003	F3-3	8.300	0.098	85	101.659	101.561	103.258	150	1.449
F3.004	F3-4	31.110	0.891	35	101.561	100.670	103.020	150	1.309
F1.003	F1-3	17.730	0.610	29	100.200	99.590	102.044	225	1.619
F1.004	F1-4	28.460	1.294	22	99.590	98.296	101.434	225	1.619
F1.005	F1-5	46.536	2.115	22	98.000	95.885	100.116	225	1.891
F1.006	F1-6	6.640	0.302	22	95.885	95.583	97.420	225	1.310
F1.007	F1-7	14.483	0.658	22	95.405	94.747	97.014	225	1.384
F1.008	F1-8	36.766	1.671	22	94.193	92.522	96.172	225	1.754
F1.009	F1-9	31.436	1.429	22	91.645	90.216	93.947	225	2.077
F1.010	F1-10	28.508	1.296	22	89.558	88.262	91.641	225	1.858
F1.011	F1-11	12.176	0.553	22	87.400	86.847	89.687	225	2.062
F4.000	F4-0	40.658	0.678	60	98.900	98.222	100.649	150	1.599
F4.001	F4-1	10.781	0.180	60	98.222	98.042	100.193	150	1.821
F4.002	F4-2	58.388	0.973	60	98.042	97.069	100.073	150	1.881
F4.003	F4-3	4.897	0.082	60	97.069	96.988	99.420	150	2.201
F4.004	F4-4	3.426	0.057	60	96.988	96.930	99.368	150	2.230
F4.005	F4-5	10.431	0.174	60	96.930	96.757	99.317	150	2.237
F4.006	F4-6	52.919	2.405	22	96.682	94.276	99.194	225	2.287
F4.007	F4-7	10.288	0.488	22	93.038	92.570	96.785	225	3.522
F4.008	F4-8	5.491	0.250	22	90.825	90.575	94.000	225	2.950
F4.009	F4-9	7.945	0.361	22	88.800	88.439	92.000	225	2.975
F4.010	F4-10	11.088	0.055	200	88.439	88.383	90.564	225	1.900
F4.011	F4-11	8.859	0.044	200	88.383	88.339	91.231	225	2.623
F4.012	F4-12	36.224	1.228	30	88.339	87.111	90.780	225	2.216
F4.013	F4-13	13.802	0.230	60	87.111	86.881	88.542	225	1.206
F4.014	F4-14	68.504	0.343	200	86.881	86.539	88.320	225	1.214
F1.012	F1-12	13.867	0.069	200	86.539	86.469	88.952	225	2.188
F1.013	F1-13	48.770	0.244	200	86.469	86.225	88.180	225	1.486
F5.000	F5-0	75.458	1.258	60	89.647	88.389	92.904	150	3.107
F5.001	F5-1	12.890	0.215	60	88.389	88.174	90.145	150	1.606
F1.014	F1-14	14.953	0.075	200	86.225	86.151	89.525	225	3.075

LEGEND:

- EXISTING SURFACE WATER SEWER.....
- PROPOSED SURFACE WATER SEWER AND MANHOLE.....
- PROPOSED SURFACE WATER ATTENUATION TANK.....
- EXISTING SURFACE WATER SEWER.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPES AS PER IRISH WATER WASTEWATER CODE OF PRACTICE SECTION 3.13.1.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPE WITH CONCRETE SURROUND AS PER IRISH WATER STD-WW-08.....
- PRIVATE INSPECTION CHAMBERS AS PER IRISH WATER STD-WW-03.....



AECOM

PROJECT
 PROPOSED RESIDENTIAL DEVELOPMENT AT GLOUNTHAUNE, CO. CORK

CLIENT
 BLUESCAPE LTD

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NOTES

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- DIMENSIONS OF ALL BOUNDARIES AND ADJOINING ROADS TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORKS.
- DO NOT SCALE. ALL MEASUREMENTS AND COORDINATES TO BE CHECKED ON SITE.
- REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS OF OPEN SPACE AND LEVELS.
- THE PROPOSED SURFACE WATER SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATION OF SECTION 3 OF "RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS" (DEPARTMENT OF ENVIRONMENT & LOCAL GOVERNMENT 1998).
- ALL FOUL WATER DETAILS TO BE IN ACCORDANCE WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.
- SURFACE WATER & FOUL WATER SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE SHOULD BE PROTECTED FROM DAMAGE BY PROVIDING A 20mm CONCRETE HUNCH ENCASUREMENT NOT LESS THAN 100mm THICK & HAVING MOVEMENT JOINTS FORMED WITH COMPRESSIVE BOARD AT EACH SOCKET OR SLEEVE JOINT FACE.
- ATTENUATION PROPOSALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF CORK COUNTY COUNCIL.
- EXISTING INVERT LEVELS TO BE VERIFIED ON SITE BEFORE COMMENCING CONSTRUCTION.

ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	03.12.2021	ISSUED FOR PLANNING

KEY PLAN

PROJECT NUMBER
60592432

SHEET TITLE
PROPOSED DRAINAGE LAYOUT SHEET 2 OF 7

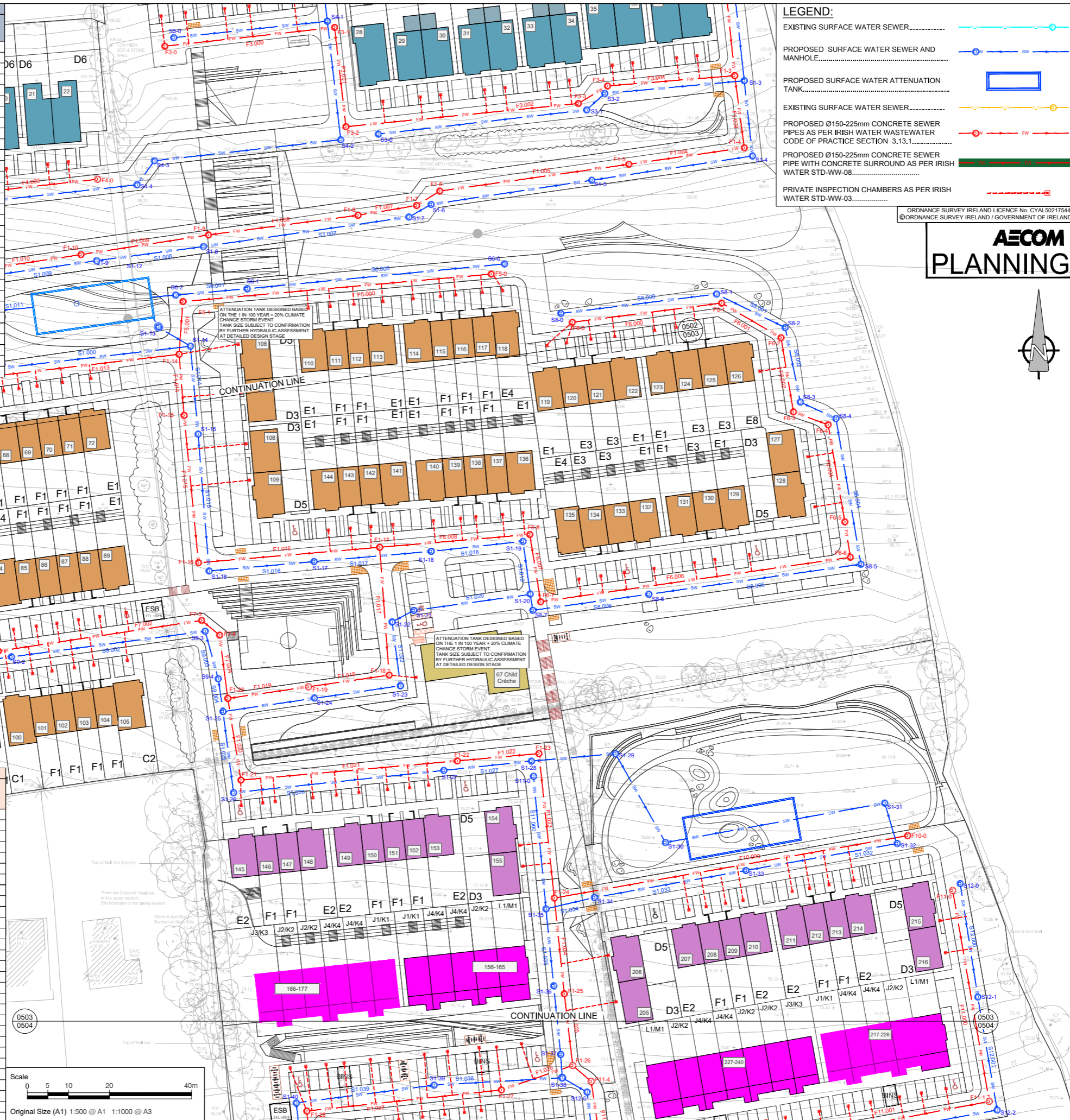
SHEET NUMBER
60592432-ACM-00-00-DR-CE-10-0502



A PROPOSED DRAINAGE LAYOUT - (SHEET 2 OF 7)

SURFACE WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
S1.016	S1-16	33.486	0.558	80	86.092	85.534	88.414	375	1.947
S1.017	S1-17	25.693	0.257	100	85.534	85.277	86.977	375	1.068
S1.018	S1-18	28.701	0.287	100	85.277	84.990	86.812	375	1.160
S1.019	S1-19	22.481	0.150	150	84.990	84.840	86.771	375	1.406
S1.020	S1-20	16.476	0.110	150	84.840	84.730	86.935	375	1.720
S8.000	S8-0	38.260	0.478	80	91.700	91.222	93.142	225	1.217
S8.001	S8-1	18.620	0.233	80	91.222	90.989	93.314	225	1.867
S8.002	S8-2	18.523	0.232	80	90.989	89.768	92.654	225	2.429
S8.003	S8-3	9.580	0.220	44	89.300	89.080	91.228	225	1.703
S8.004	S8-4	36.029	1.710	21	88.000	86.290	90.284	225	2.059
S8.005	S8-5	52.204	1.044	50	86.290	85.246	87.703	225	1.188
S8.006	S8-6	28.584	0.357	80	85.246	84.889	87.159	225	1.688
S1.021	S1-21	28.922	0.289	100	84.730	84.441	86.960	375	1.855
S1.022	S1-22	9.980	0.060	100	84.441	84.381	86.900	300	2.159
S1.023	S1-23	15.700	0.628	25	84.381	83.753	86.081	300	1.400
S1.024	S1-24	43.705	2.185	20	83.000	80.815	84.900	300	1.600
S9.000	S9-0	35.012	0.233	150	78.500	78.267	79.796	300	0.966
S10.000	S10-0	35.450	0.443	80	80.600	80.157	81.992	225	1.167
S10.001	S10-1	21.177	0.265	80	80.157	79.892	82.166	225	1.784
S9.001	S9-1	28.181	0.141	200	78.267	78.126	81.321	300	2.754
S9.002	S9-2	47.606	0.238	200	78.126	77.888	81.760	300	3.334
S9.003	S9-3	12.032	0.060	201	77.888	77.828	82.299	300	4.111
S9.004	S9-4	8.097	0.040	202	77.828	77.788	82.213	300	4.085
S1.025	S1-25	19.942	0.199	100	77.788	77.589	81.841	300	3.753
S1.026	S1-16	51.540	1.289	40	77.589	76.300	80.199	300	2.310
S1.027	S1-27	21.478	0.859	25	76.300	75.441	77.759	300	1.159
S1.028	S1-28	38.237	1.912	20	75.000	73.088	76.886	300	1.586
S11.000	S11-0	37.487	0.730	51	75.000	74.270	76.961	225	1.736
S11.001	S11-1	37.487	0.937	40	74.270	73.333	75.684	225	1.189
S11.002	S11-2	12.395	0.413	30	73.258	72.845	74.631	300	1.073
S1.029	S77	33.640	0.961	35	71.500	70.539	74.289	375	2.414

FOUL WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
F1.015	F1-15	38.096	1.141	32	86.151	85.010	88.779	225	2.403
F1.016	F1-16	44.321	0.222	200	85.010	84.788	87.472	225	2.237
F6.000	F6-0	36.716	0.612	60	91.332	90.720	92.682	150	1.200
F6.001	F6-1	16.755	0.279	80	90.720	90.441	92.300	150	1.430
F6.002	F6-2	18.342	0.864	21	90.441	89.577	91.965	150	1.374
F6.003	F6-3	9.033	0.695	13	89.500	88.805	90.927	150	1.277
F6.004	F6-4	24.025	1.848	13	88.805	86.957	90.155	150	1.200
F6.005	F6-5	8.731	0.275	32	86.957	86.682	88.318	150	1.211
F6.006	F6-6	76.268	0.953	80	86.682	85.729	88.032	150	1.200
F6.007	F6-7	16.621	0.208	80	85.729	85.521	87.100	150	1.221
F6.008	F6-8	36.726	0.288	128	85.446	85.158	87.152	225	1.481
F1.017	F1-17	31.207	1.419	22	84.621	83.202	87.346	225	2.500
F1.018	F1-18	19.868	0.903	22	82.194	81.291	85.018	225	2.599
F1.019	F1-19	19.868	0.903	22	79.791	78.888	83.416	225	3.400
F7.000	F7-0	41.539	0.692	60	78.050	77.358	79.400	150	1.200
F8.000	F8-0	35.918	0.599	60	81.075	80.476	82.425	150	1.200
F8.000	F8-0	18.080	0.301	60	81.345	81.044	82.695	150	1.200
F8.001	F8-1	10.776	0.180	60	80.476	80.296	82.600	150	1.974
F8.002	F8-2	10.776	0.180	60	78.900	78.720	82.010	150	2.960
F7.001	F7-1	22.991	0.115	200	77.283	77.168	81.420	225	3.912
F7.002	F7-2	50.143	0.251	200	77.168	76.917	81.850	225	4.457
F7.003	F7-3	5.668	0.028	200	76.917	76.889	82.128	225	4.986
F7.004	F7-4	15.552	0.078	200	76.889	76.811	82.155	225	5.041
F1.020	F1-20	20.177	0.101	200	76.811	76.710	81.813	225	4.777
F1.021	F1-21	52.965	0.265	200	76.710	76.445	80.414	225	3.479
F1.022	F1-22	19.986	0.908	22	76.445	75.537	78.226	225	1.556
F1.023	F1-23	37.453	1.702	22	74.455	72.753	77.026	225	2.346
F10.000	F10-0	87.705	1.462	60	74.290	72.828	76.620	150	2.180
F1.024	F1-24	21.461	0.976	22	71.964	70.988	74.178	225	1.989



LEGEND:

- EXISTING SURFACE WATER SEWER AND MANHOLE.....
- PROPOSED SURFACE WATER SEWER AND MANHOLE.....
- PROPOSED SURFACE WATER ATTENUATION TANK.....
- EXISTING SURFACE WATER SEWER.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPES AS PER IRISH WATER WASTEWATER CODE OF PRACTICE SECTION 3.13.1.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPE WITH CONCRETE SURROUND AS PER IRISH WATER STD-WW-08.....
- PRIVATE INSPECTION CHAMBERS AS PER IRISH WATER STD-WW-03.....

ORDNANCE SURVEY IRELAND LICENCE No. CYAL50217544
©ORDNANCE SURVEY IRELAND / GOVERNMENT OF IRELAND

AECOM PLANNING

AECOM

PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT AT GLOUNTHAUNE, CO. CORK

CLIENT

BLUESCAPE LTD

CONSULTANT

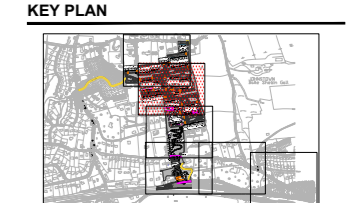
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NOTES

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- SURFACE WATER & FOUL WATER SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE SHOULD BE PROTECTED FROM DAMAGE BY PROVIDING A 20mm THICK CONCRETE CHUNCH ENCASUREMENT NOT LESS THAN 100mm THICK & HAVING MOVEMENT JOINTS FORMED WITH COMPRESSIVE BOARD AT EACH SOCKET OR SLEEVE JOINT FACE.
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ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	03.12.2021	ISSUED FOR PLANNING



PROJECT NUMBER

60592432

SHEET TITLE

PROPOSED DRAINAGE LAYOUT SHEET 3 OF 7

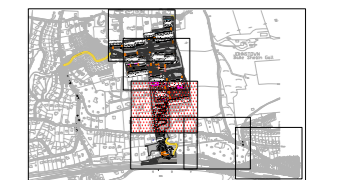
SHEET NUMBER

60592432-ACM-00-00-DR-CE-10-0503

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- SURFACE WATER & FOUL WATER SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE SHOULD BE PROTECTED FROM DAMAGE BY PROVIDING A 200mm CONCRETE MUNCH ENCASUREMENT NOT LESS THAN 100mm THICK & HAVING MOVEMENT JOINTS FORMED WITH COMPRESSIVE BOARD AT EACH SOCKET OR SLEEVE JOINT FACE.
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NO	DATE	DESCRIPTION
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I/R	DATE	DESCRIPTION



FOUL WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
F1.025	F1-25	17.602	0.800	22	70.345	69.545	72.414	225	1.844
F11.000	F11-0	52.194	3.017	17	74.500	71.483	76.585	150	1.935
F11.001	F11-1	45.889	1.015	45	71.483	70.468	72.836	150	1.203
F11.002	F11-2	49.617	2.255	22	70.393	68.137	71.984	225	1.366
F11.003	F11-3	22.348	0.112	200	68.137	68.026	69.675	225	1.313
F11.004	F11-4	5.967	0.030	200	68.026	67.996	71.050	225	2.799
F1.026	F1-26	18.385	0.836	22	67.545	66.709	70.970	225	3.200
F1.027	F1-27	47.699	0.318	150	66.709	66.391	69.910	225	2.976
F1.028	F1-28	15.503	0.705	22	66.391	65.686	68.849	225	2.233
F1.029	F1-29	15.309	0.696	22	65.686	64.990	68.140	225	2.229
F1.030	F1-30	27.542	1.252	22	64.990	63.738	67.121	225	1.906
F1.031	F1-31	9.927	0.451	22	62.950	62.499	65.338	225	2.163
F1.032	F1-32	39.727	0.265	150	62.499	62.234	64.790	225	2.066
F1.033	F1-33	20.571	0.137	150	62.234	62.097	65.019	225	2.560
F12.000	F12-0	29.901	0.498	60	63.381	62.883	64.731	150	1.200
F12.001	F12-1	54.696	0.405	135	62.883	62.478	64.347	150	1.314
F12.002	F12-2	15.499	0.115	135	62.478	62.363	63.647	150	1.019
F12.003	F12-3	10.732	0.079	135	62.363	62.284	64.161	150	1.648
F1.034	F1-34	7.826	0.356	22	62.097	61.741	64.784	225	2.442
F1.035	F1-35	12.580	0.572	22	59.891	59.319	63.631	225	3.515
F1.036	F1-36	17.000	0.773	22	59.319	58.546	62.780	225	3.216
F1.037	F1-37	40.979	1.863	22	58.546	56.683	61.450	225	2.679
F1.038	F1-38	14.180	0.645	22	54.970	54.325	58.472	225	3.277
F1.039	F1-39	10.617	0.483	22	52.058	51.575	55.750	225	3.467
F1.040	F1-40	7.980	0.363	22	49.800	49.438	53.000	225	2.975
F1.041	F1-41	7.980	0.363	22	48.133	47.770	51.750	225	3.392
F1.042	F1-42	10.884	0.495	22	46.270	45.775	50.500	225	4.005
F1.043	F1-43	11.637	0.529	22	44.000	43.471	47.200	225	2.975
F1.044	F1-44	19.448	0.884	22	42.750	41.866	45.950	225	2.975
F1.045	F1-45	9.926	0.451	22	41.127	40.676	45.600	225	4.248
F1.046	F1-46	9.926	0.451	22	39.676	39.225	43.625	225	3.724
F1.047	F1-47	17.626	0.801	22	37.776	36.975	41.650	225	3.649

SURFACE WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
S1.030	S1-30	6.901	0.222	31	70.539	70.317	72.152	375	1.238
S12.000	S12-0	27.986	0.709	40	73.500	72.791	76.394	225	2.669
S12.001	S12-1	27.959	0.709	39	72.791	72.082	74.443	225	1.427
S12.002	S12-2	44.285	1.755	25	72.082	70.327	72.538	225	0.231
S12.003	S12-3	40.226	1.609	25	70.327	68.718	71.368	225	0.816
S12.004	S12-4	14.337	0.484	30	68.718	68.234	70.344	225	1.401
S12.005	S12-5	20.515	0.140	147	68.234	68.095	69.974	225	1.515
S12.006	S84	5.889	0.140	42	68.095	67.955	70.944	225	2.625
S1.031	S1-31	33.766	0.368	92	67.730	67.362	71.914	450	3.734
S1.032	S1-32	33.874	0.539	63	67.362	66.823	70.195	450	2.383
S1.033	S1-33	29.561	1.478	20	66.823	65.345	68.500	450	1.227
S1.034	S1-34	33.090	1.655	20	65.345	63.890	67.000	450	1.205
S1.035	S1-35	10.699	0.713	15	63.890	62.977	65.200	450	1.060
S13.000	S13-0	57.517	0.574	100	63.500	62.926	65.000	225	1.275
S13.001	S13-1	43.660	0.437	100	62.926	62.489	64.700	225	1.549
S13.002	S13-2	12.661	0.127	100	62.489	62.362	65.000	225	2.286
S13.003	S13-3	30.940	0.309	100	62.362	62.053	64.950	225	2.363
S13.004	S13-4	23.772	0.237	101	62.053	61.816	64.700	225	2.422
S1.036	S1-36	8.851	0.590	15	61.500	60.910	64.700	450	2.750
S1.037	S1-37	1.987	0.103	19	60.910	60.807	62.000	450	0.640
S1.038	S1-38	34.225	0.811	42	60.807	59.996	62.000	450	0.743
S1.039	S1-39	5.949	0.193	31	59.996	59.803	61.000	375	0.629
S1.040	S1-38	39.773	3.332	12	58.500	55.168	60.759	300	1.959
S1.041	S1-39	22.177	1.391	16	55.000	53.609	57.800	300	2.300
S1.042	S1-40	11.498	0.958	12	52.000	51.042	55.000	300	2.700
S1.043	S1-41	11.498	0.958	12	50.100	49.142	52.000	300	1.600
S1.044	S48.5	9.974	0.831	12	48.800	47.969	50.500	300	1.400
S1.045	S1-43	9.061	0.787	12	46.500	45.713	49.240	300	2.440
S1.046	S1-44	17.313	0.892	20	44.600	43.718	47.000	300	2.100
S1.047	S1-45	10.000	0.833	12	42.700	41.867	45.200	300	2.200
S1.048	S1-46	10.000	0.833	12	40.800	39.967	43.200	300	2.100
S1.049	S1-47	10.000	0.833	12	39.000	38.167	41.300	300	2.000
S1.050	S1-48	9.796	0.816	12	37.000	36.184	39.300	300	2.000

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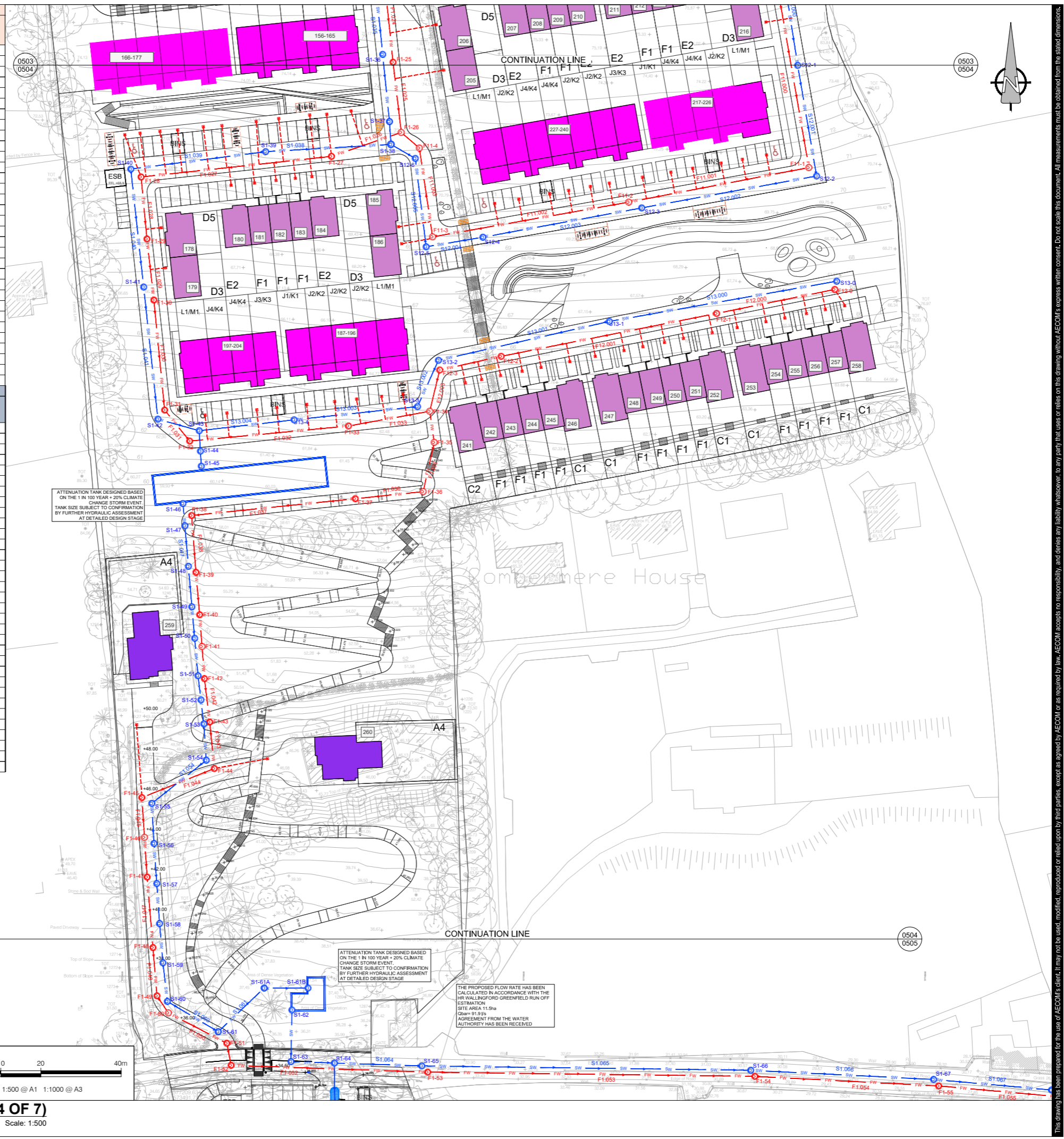


LEGEND:

- EXISTING SURFACE WATER SEWER.....
- PROPOSED SURFACE WATER SEWER AND MANHOLE.....
- PROPOSED SURFACE WATER ATTENUATION TANK.....
- EXISTING SURFACE WATER SEWER.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPES AS PER IRISH WATER WASTEWATER CODE OF PRACTICE SECTION 3.13.1.....
- PROPOSED Ø150-225mm CONCRETE SEWER PIPE WITH CONCRETE SURROUND AS PER IRISH WATER STD-WW-08.....
- PRIVATE INSPECTION CHAMBERS AS PER IRISH WATER STD-WW-03.....

A PROPOSED DRAINAGE LAYOUT - (SHEET 4 OF 7)

Scale: 1:500

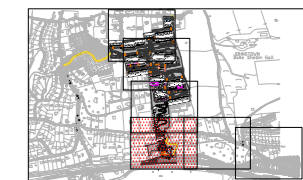


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ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	03.12.2021	ISSUED FOR PLANNING

KEY PLAN



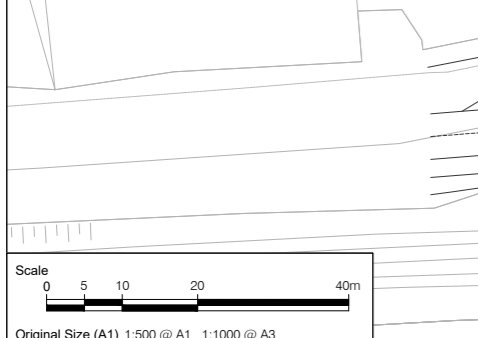
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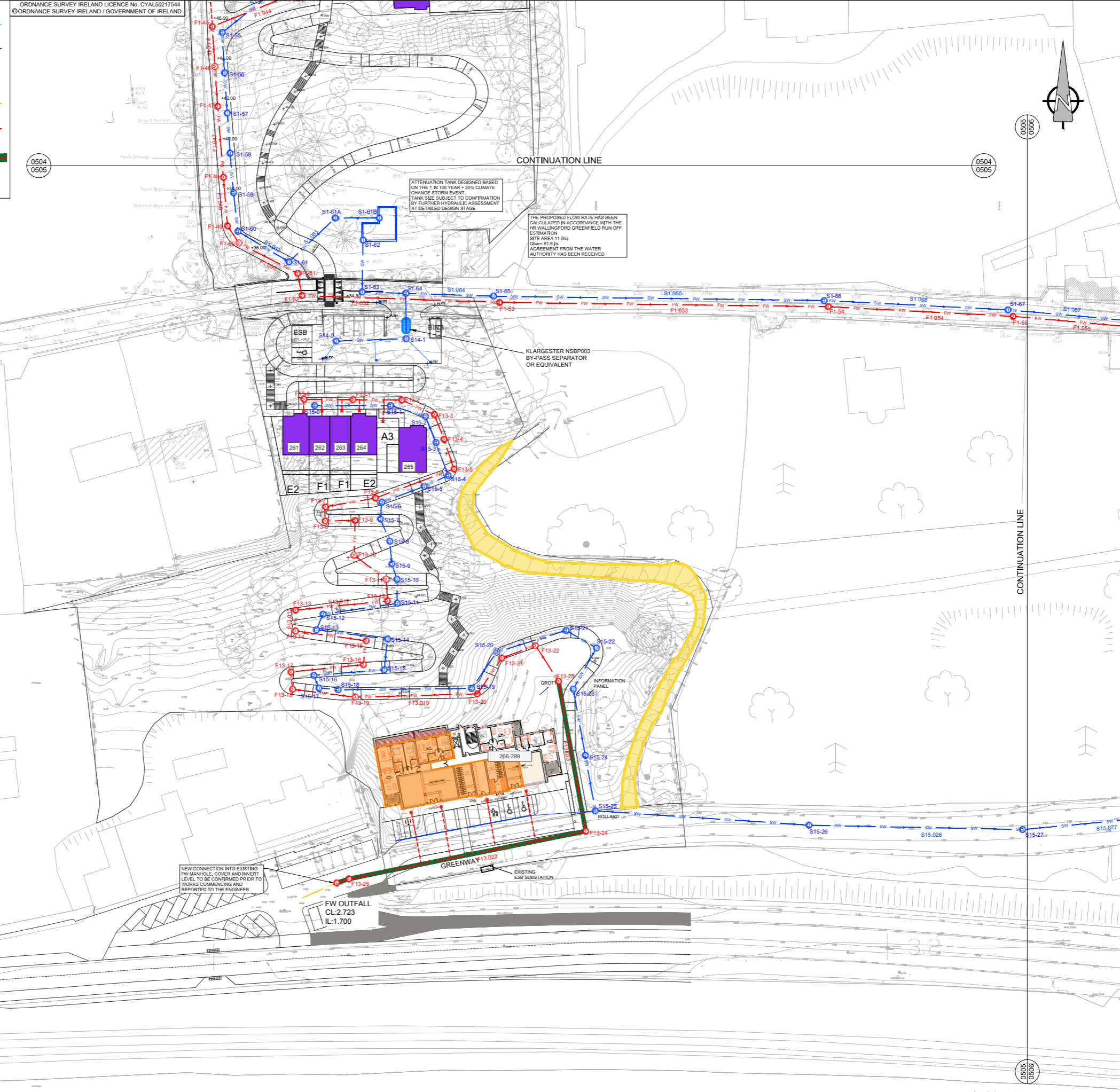


PN	USMH	Length (m)	Slope (1:X)	USCL (m)	USIL (m)	DSIL (m)	Dia (mm)
F13.000	F13-0	12.201	60.1	28.400	27.300	27.097	150
F13.001	F13-1	12.063	60.0	27.830	26.400	26.199	150
F13.002	F13-2	8.847	60.0	27.200	26.199	26.052	150
F13.003	F13-3	6.553	40.0	27.707	25.600	25.436	150
F13.004	F13-4	7.779	20.0	26.300	25.200	24.811	150
F13.005	F13-5	20.776	20.0	25.800	24.500	23.461	150
F13.006	F13-6	12.564	20.0	24.500	23.200	22.572	150
F13.007	F13-7	3.502	20.0	23.600	22.500	22.325	150
F13.008	F13-8	7.465	50.0	23.400	22.000	21.851	150
F13.009	F13-9	8.549	15.0	22.900	20.800	20.230	150
F13.010	F13-10	9.972	25.0	21.000	19.000	18.601	150
F13.011	F13-11	5.377	13.0	19.787	17.100	16.686	150
F13.012	F13-12	22.976	20.0	17.500	15.500	14.351	150
F13.013	F13-13	5.168	20.0	16.200	14.200	13.942	150
F13.014	F13-14	17.706	50.0	15.900	13.900	13.546	150
F13.015	F13-15	5.965	15.0	15.000	13.000	12.602	150
F13.016	F13-16	18.054	30.0	13.735	12.000	11.398	150
F13.017	F13-17	4.311	20.0	12.400	11.000	10.784	150
F13.018	F13-18	15.739	13.0	12.300	10.100	8.889	150
F13.019	F13-19	30.184	20.9	9.650	8.800	7.358	150
F13.020	F13-20	10.751	50.0	9.100	7.300	7.085	150
F13.021	F13-21	8.966	20.0	8.203	7.000	6.552	150
F13.022	F13-22	10.539	20.0	7.496	5.300	4.773	150
F13.023	F13-23	37.749	20.0	5.600	4.000	2.113	150
F13.024	F13-24	59.935	225.3	2.700	2.038	1.772	225
F13.025	F13-25	3.181	227.2	2.725	1.772	1.758	225

PN	USMH	Length (m)	Slope (1:X)	USCL (m)	USIL (m)	DSIL (m)	Dia (mm)
S15.000	S15-0	18.804	40.0	28.300	27.000	26.530	225
S15.001	S15-1	9.098	25.0	27.600	26.400	26.036	225
S15.002	S15-2	6.980	25.0	27.600	25.700	25.421	225
S15.003	S15-3	8.735	25.0	26.300	25.000	24.651	225
S15.004	S15-4	6.537	20.0	25.700	24.600	24.273	225
S15.005	S15-5	11.237	20.0	25.300	24.200	23.638	225
S15.006	S15-6	4.169	10.0	24.500	22.200	21.783	225
S15.007	S15-7	5.981	20.0	22.500	21.000	20.701	225
S15.008	S15-8	5.594	20.0	21.700	19.500	19.220	225
S15.009	S15-8	4.032	25.2	20.300	18.500	18.340	225
S15.010	S15-10	5.992	22.5	19.400	17.300	17.034	225
S15.011	S15-11	18.620	40.0	18.000	15.800	15.335	225
S15.012	S15-12	4.192	30.0	16.700	15.000	14.860	225
S15.013	S15-13	17.772	50.1	15.500	14.300	13.945	225
S15.014	S15-14	7.672	60.0	14.900	13.800	13.672	225
S15.015	S15-15	17.517	12.0	15.700	13.300	11.840	225
S15.016	S15-16	3.410	15.0	12.800	11.300	11.073	225
S15.017	S15-17	4.800	25.3	11.900	10.800	10.610	225
S15.018	S15-18	33.051	20.0	11.500	10.000	8.347	225
S15.019	S15-19	10.982	19.2	9.100	8.200	7.628	225
S15.020	S15-20	18.001	18.4	8.400	7.300	6.320	225
S15.021	S15-21	8.685	25.0	6.900	5.500	5.153	225
S15.022	S15-22	11.718	50.0	5.884	5.153	4.918	225
S15.023	S15-23	16.645	30.0	5.900	4.000	3.445	225
S15.024	S15-24	14.019	60.0	4.000	3.300	3.066	225
S15.025	S15-25	53.073	350.0	3.500	2.800	2.648	300
S15.026	S15-26	52.973	350.0	3.000	2.648	2.497	300
S15.027	S15-27	37.373	350.0	2.915	2.497	2.390	300
S15.028	S15-28	49.399	401.6	2.900	2.390	2.267	300
S15.029	S15-29	76.851	400.3	3.000	2.267	2.075	300
S15.030	S15-30	32.833	400.4	2.900	2.075	1.993	300
S15.031	S15-31	71.778	401.0	3.250	1.993	1.814	300
S15.032	S15-32	71.777	401.0	3.310	1.814	1.635	300
S15.033	S15-33	72.143	400.8	3.370	1.635	1.455	300

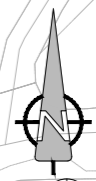
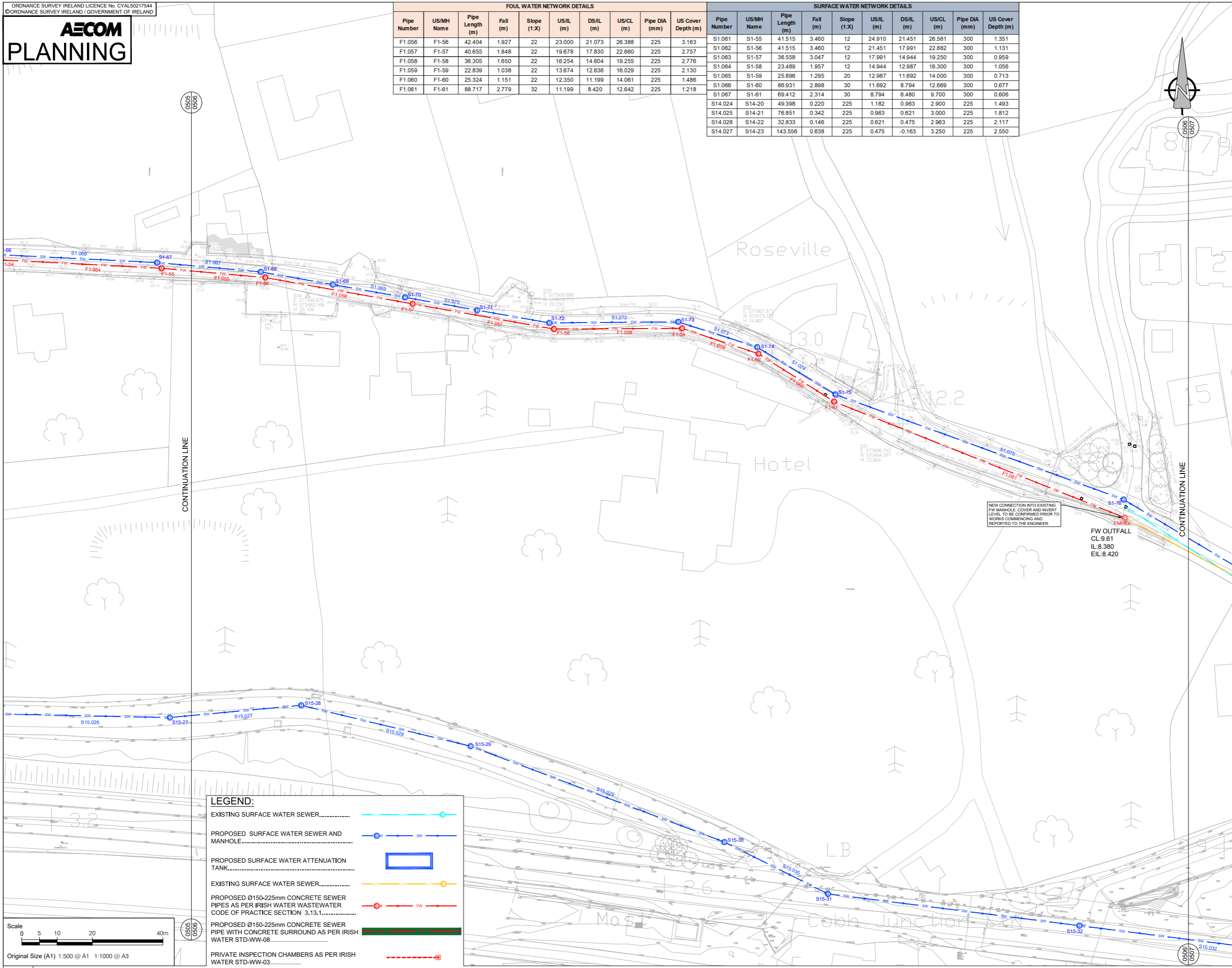


A PROPOSED DRAINAGE LAYOUT - (SHEET 5 OF 7)



Project Management Initials: Designer: JC
 Checked: AP
 Approved: EMck
 ISO A1 594mm x 841mm
 Last saved by: AILEEN PRENDERGAST (2021-10-26) Last Plotted: 2021-12-03
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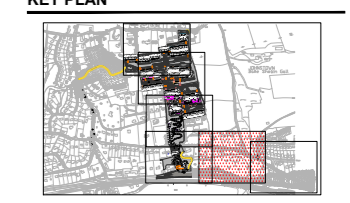
FOUL WATER NETWORK DETAILS										SURFACE WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)	Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/IL (m)	DS/IL (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
F1.056	F1-56	42.404	1.927	22	23.000	21.073	26.388	225	3.163	S1.061	S1-55	41.515	3.460	12	24.910	21.451	26.561	300	1.351
F1.057	F1-57	40.655	1.848	22	19.678	17.830	22.660	225	2.757	S1.062	S1-56	41.515	3.460	12	21.451	17.991	22.882	300	1.131
F1.058	F1-58	36.305	1.650	22	16.254	14.604	19.255	225	2.776	S1.063	S1-57	36.558	3.047	12	17.991	14.944	19.250	300	0.959
F1.059	F1-59	22.839	1.038	22	13.674	12.636	16.029	225	2.130	S1.064	S1-58	23.489	1.957	12	14.944	12.987	16.300	300	1.056
F1.060	F1-60	25.324	1.151	22	12.350	11.199	14.061	225	1.486	S1.065	S1-59	25.896	1.295	20	12.987	11.692	14.000	300	0.713
F1.061	F1-61	88.717	2.779	32	11.199	8.420	12.642	225	1.218	S1.066	S1-60	86.931	2.898	30	11.692	8.794	12.669	300	0.677
										S1.067	S1-61	69.412	2.314	30	8.794	6.480	9.700	300	0.606
										S14.024	S14-20	49.398	0.220	225	1.182	0.963	2.900	225	1.493
										S14.025	S14-21	76.851	0.342	225	0.963	0.621	3.000	225	1.812
										S14.026	S14-22	32.833	0.146	225	0.621	0.475	2.963	225	2.117
										S14.027	S14-23	143.556	0.638	225	0.475	-0.163	3.250	225	2.550



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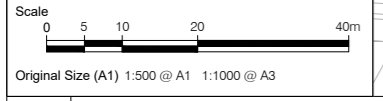
ISSUE/REVISION

I/R	DATE	DESCRIPTION
0	03.12.2021	ISSUED FOR PLANNING



LEGEND:

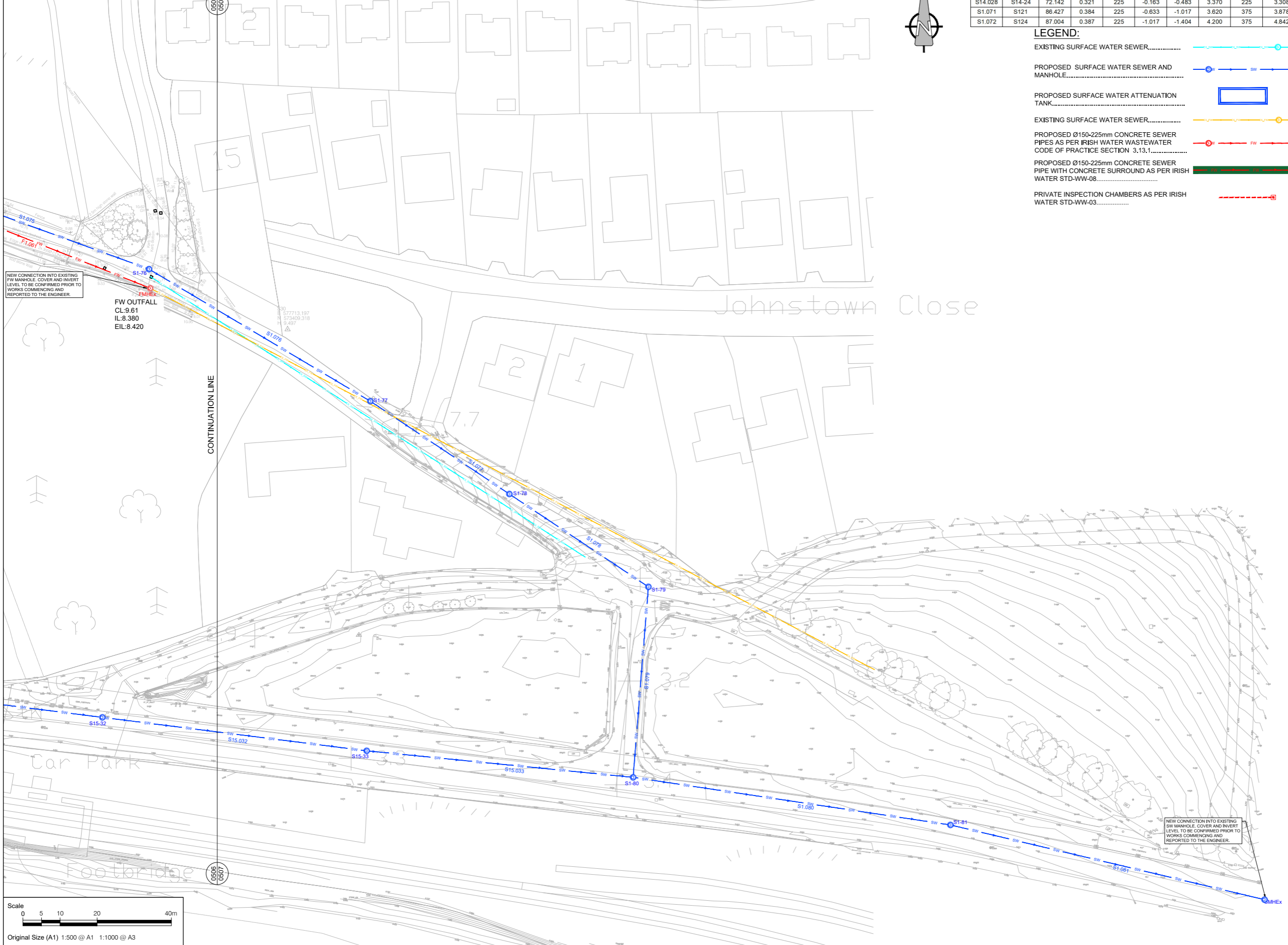
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ISO A1 594mm x 841mm
 Approved: EMck
 Checked: AP
 Designer: JC
 Project Management Initials:
 Last saved by: ALLEN PRENDERGAST (2021-10-26)
 Last Plotted: 2021-12-03
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SURFACE WATER NETWORK DETAILS									
Pipe Number	US/MH Name	Pipe Length (m)	Fall (m)	Slope (1:X)	US/L (m)	DS/L (m)	US/CL (m)	Pipe DIA (mm)	US Cover Depth (m)
S1.068	S1-62	45.039	1.501	30	6.480	4.979	8.400	300	1.620
S1.069	S126	45.039	1.501	30	4.979	3.478	6.300	300	1.021
S1.070	S1-83	51.463	0.257	200	3.000	2.743	4.000	375	0.625
S14.028	S14-24	72.142	0.321	225	-0.163	-0.483	3.370	225	3.308
S1.071	S121	86.427	0.384	225	-0.633	-1.017	3.620	375	3.878
S1.072	S124	87.004	0.387	225	-1.017	-1.404	4.200	375	4.842

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PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT AT GLOUNTHAUNE, CO. CORK

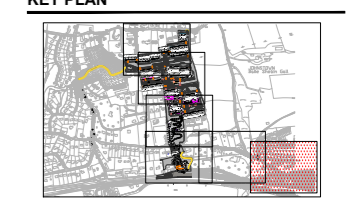
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 - ALL FOUL WATER DETAILS TO BE IN ACCORDANCE WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE.
 - SURFACE WATER & FOUL WATER SEWER PIPES LESS THAN 1.2m BELOW THE ROAD SURFACE SHOULD BE PROTECTED FROM DAMAGE BY PROVIDING A 20m CONCRETE HUNCH ENCASUREMENT NOT LESS THAN 100mm THICK & HAVING MOVEMENT JOINTS FORMED WITH COMPRESSIVE BOARD AT EACH SOCKET OR SLEEVE JOINT FACE.
 - ATTENUATION PROPOSALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF CORK COUNTY COUNCIL.
 - EXISTING INVERT LEVELS TO BE VERIFIED ON SITE BEFORE COMMENCING CONSTRUCTION.

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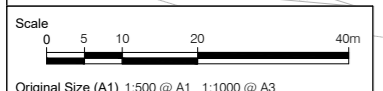
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PROJECT NUMBER
 60592432

SHEET TITLE
 PROPOSED DRAINAGE LAYOUT SHEET 7 OF 7

SHEET NUMBER
 60592432-ACM-00-00-DR-CE-10-0507



A PROPOSED DRAINAGE LAYOUT - (SHEET 7 OF 7)
 0507 Scale: 1:500

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APPENDIX 6-3

Proposed Water Supply Drawings - AECOM

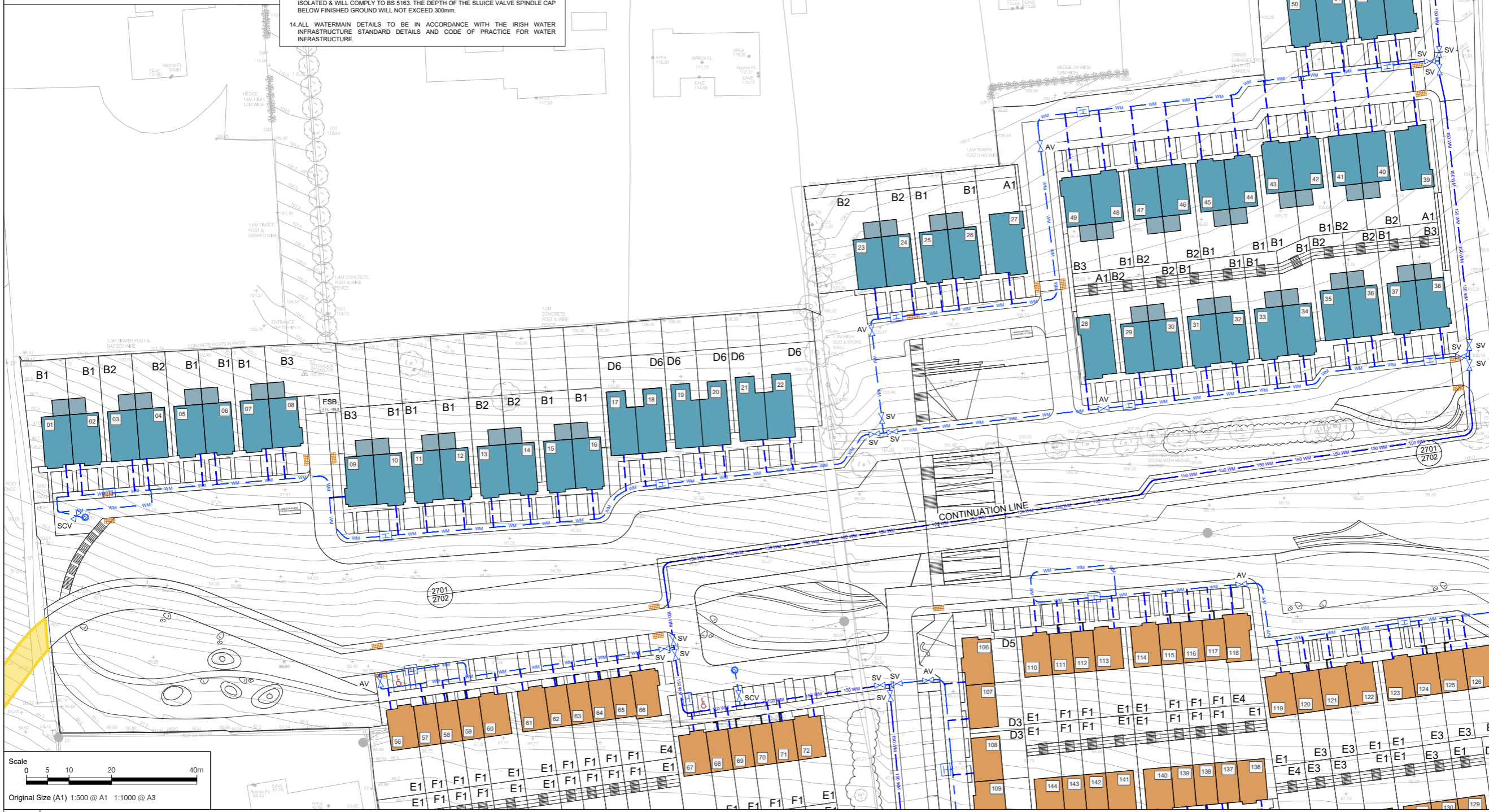
VOLUME III | Appendices

LEGEND:

EXISTING PUBLIC WATERMAIN.....	
PROPOSED Ø150MM HDPE WATERMAIN AS PER IRISH CODE OF PRACTICE SECTION 3.9.2.....	
PROPOSED Ø100mm HDPE WATERMAIN AS PER IRISH WATER CODE OF PRACTICE SECTION 3.9.2.....	
PROPOSED Ø100mm HDPE RIDER WATERMAIN AS PER IRISH WATER CODE OF PRACTICE SECTION 3.9.2.....	
PROPOSED Ø25mm WATER SUPPLY CONNECTION PIPELINES AND METERS TO INDIVIDUAL UNITS AS PER IRISH WATER CODE OF PRACTICE SECTIONS 3.9.2 AND 3.14.....	
PROPOSED Ø32mm WATER SUPPLY CONNECTION PIPELINES AND METERS TO INDIVIDUAL UNITS AS PER IRISH WATER CODE OF PRACTICE SECTIONS 3.9.2 AND 3.14.....	
PROPOSED DEVELOPABLE AREA.....	
PROPOSED FIRE HYDRANT.....	
PROPOSED SLUICE VALVE.....	
PROPOSED SCOUR VALVE AT LOW POINTS TO STORM SEWER NETWORK.....	
PROPOSED AIR VALVE AT HIGH POINTS.....	
PROPOSED BULK WATER METER.....	

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 - ALL APARTMENTS AND COMMERCIAL PROPERTIES SHALL HAVE METERS INSTALLED INTERNALLY WITHIN THE PREMISES IN ACCORDANCE WITH THE BUILDING CONTROL AUTHORITY'S REQUIREMENTS AND SUBJECT TO REVIEW BY IRISH WATER AS PER IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.15.2. AND 13.15.3.
 - ALL PROPOSED WATERMAIN PIPEWORK TO BE HDPE WITH MINIMUM PE80 AND SDR11 OR SDR17 RATING IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.9.
 - ALL WATERMANS WILL HAVE A MINIMUM COVER OF 900mm. ALL SERVICE PIPES CONNECTING PROPERTIES WILL HAVE MINIMUM COVER OF 750mm.
 - HYDRANTS SHALL BE DOUBLE FLANGED DRILLED TO PN16 AND SHALL COMPLY WITH BS EN 14339, IS EN 1074 PART 6 AND 135 750. REFER TO IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.16.5.
 - SLUICE VALVES HAVE BEEN PROVIDED SO THAT INDIVIDUAL SECTIONS CAN BE ISOLATED & WILL COMPLY TO BS 5163. THE DEPTH OF THE SLUICE VALVE SPINDLE CAP BELOW FINISHED GROUND WILL NOT EXCEED 300mm.
 - ALL WATERMAIN DETAILS TO BE IN ACCORDANCE WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WATER INFRASTRUCTURE.

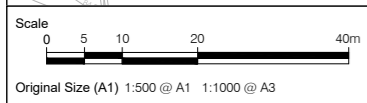
ORDNANCE SURVEY IRELAND LICENCE No. CYALS0217544
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EMERGENCY ACCESS TO BE PROVIDED - FLEXIBLE BOLLARDS AND GRASSCRETE TO BE PROVIDED TO FACILITATE TURNING MOVEMENT

AREA REQUIRED TO ALLOW REFUSE VEHICLE TO TURN - GRASSCRETE TO BE PROVIDED TO FACILITATE TURNING MOVEMENT

PROPOSED WATER METER AND SLUICE VALVE ARRANGEMENT TO IRISH WATER REQUIREMENTS. EXACT LOCATION TO BE AGREED WITH IRISH WATER.



A PROPOSED WATERMAIN LAYOUT (SHEET 1 OF 4)

Scale: 1:500



PROJECT
 PROPOSED RESIDENTIAL DEVELOPMENT AT GLOUNTHAUNE, CO. CORK

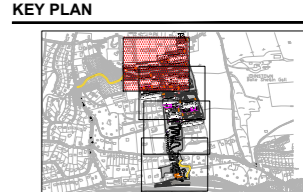
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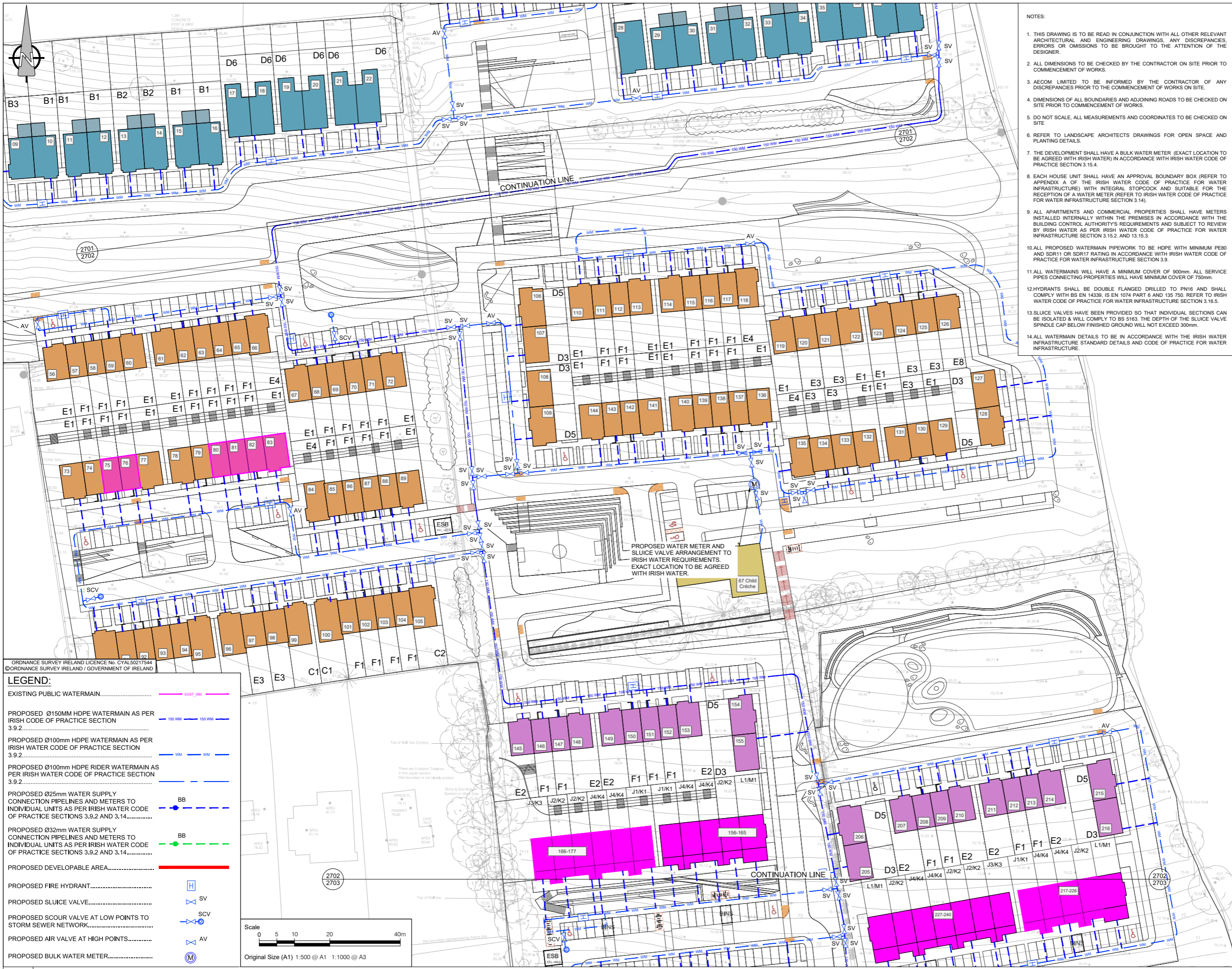


PROJECT NUMBER
 60592432

SHEET TITLE
 PROPOSED WATERMAIN LAYOUT
 SHEET 1 OF 4

SHEET NUMBER
 60592432-ACM-00-00-DR-CE-10-2701

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 - ALL APARTMENTS AND COMMERCIAL PROPERTIES SHALL HAVE METERS INSTALLED INTERNALLY WITHIN THE PREMISES IN ACCORDANCE WITH THE BUILDING CONTROL AUTHORITY'S REQUIREMENTS AND SUBJECT TO REVIEW BY IRISH WATER AS PER IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.15.2 AND 13.15.3.
 - ALL PROPOSED WATERMAIN PIPEWORK TO BE HDPE WITH MINIMUM PE80 AND SDR11 OR SDR17 RATING IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE SECTION 3.9.
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 - ALL WATERMAIN DETAILS TO BE IN ACCORDANCE WITH THE IRISH WATER INFRASTRUCTURE STANDARD DETAILS AND CODE OF PRACTICE FOR WATER INFRASTRUCTURE.

ORDNANCE SURVEY IRELAND LICENCE No. CYAL50217544
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LEGEND:

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- PROPOSED Ø150mm HDPE WATERMAIN AS PER IRISH CODE OF PRACTICE SECTION 3.9.2..... WM
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- PROPOSED Ø25mm WATER SUPPLY CONNECTION PIPELINES AND METERS TO INDIVIDUAL UNITS AS PER IRISH WATER CODE OF PRACTICE SECTIONS 3.9.2 AND 3.14..... BB
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- PROPOSED DEVELOPABLE AREA.....
- PROPOSED FIRE HYDRANT..... H
- PROPOSED SLUDGE VALVE..... SV
- PROPOSED SCOUR VALVE AT LOW POINTS TO STORM SEWER NETWORK..... SCV
- PROPOSED AIR VALVE AT HIGH POINTS..... AV
- PROPOSED BULK WATER METER..... M

Scale: 0 5 10 20 40m
 Original Size (A1) 1:500 @ A1 1:1000 @ A3

A PROPOSED WATERMAIN LAYOUT (SHEET 2 OF 4)

2702 Scale: 1:500



PROJECT
 PROPOSED
 RESIDENTIAL
 DEVELOPMENT AT
 GLOUNTHAUNE, CO.
 CORK

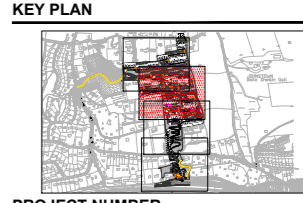
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PROJECT NUMBER
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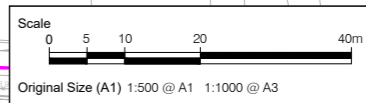
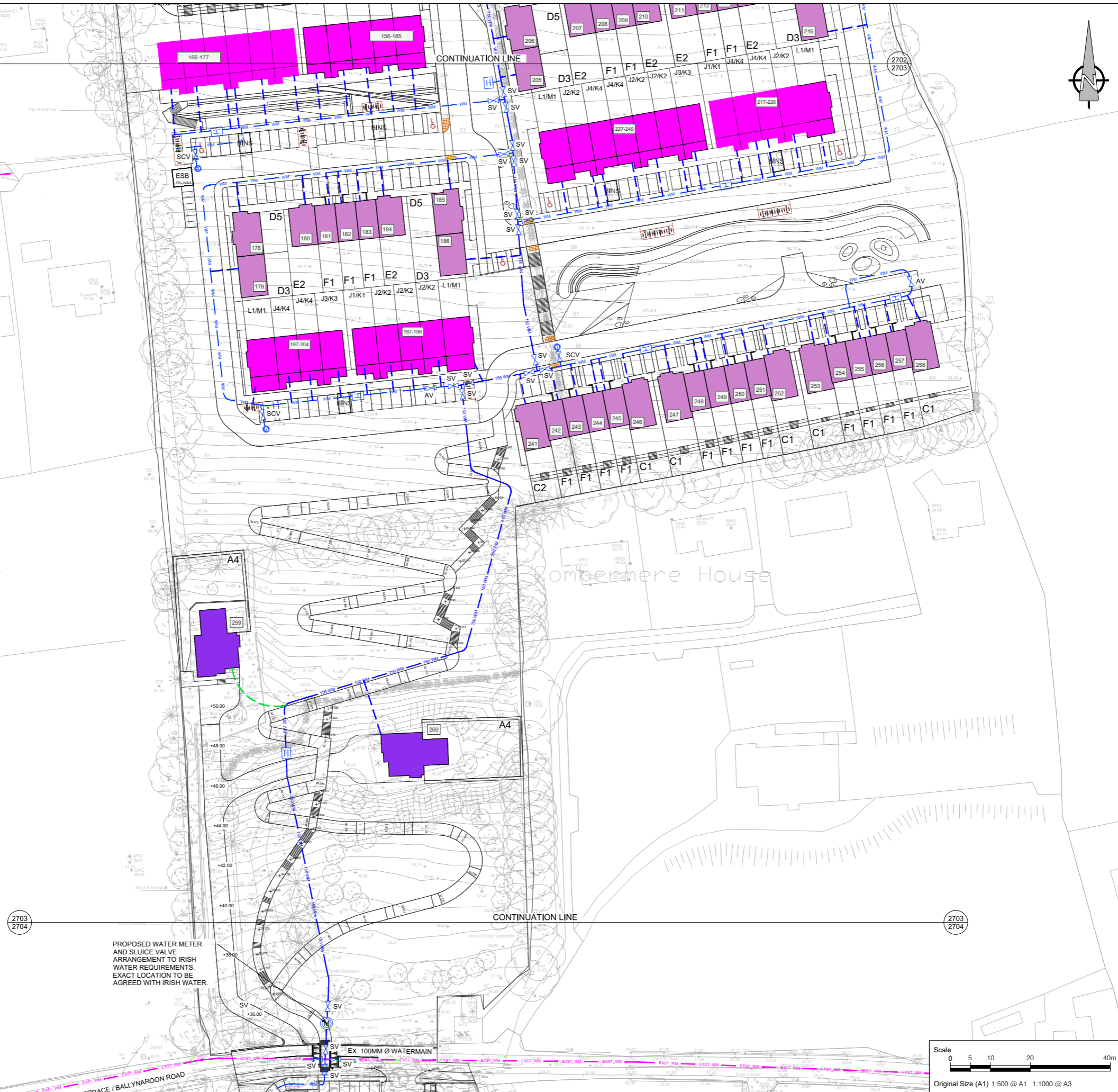
SHEET TITLE
 PROPOSED WATERMAIN
 LAYOUT
 SHEET 2 OF 4

SHEET NUMBER
 60592432-ACM-00-00-DR-CE-10-2702

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 - PROPOSED AIR VALVE AT HIGH POINTS.....
 - PROPOSED BULK WATER METER.....

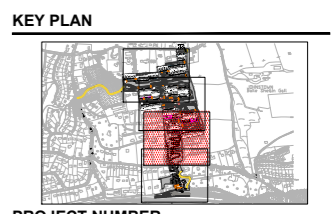


A PROPOSED WATERMAIN LAYOUT (SHEET 3 OF 4)
 2703 Scale: 1:500

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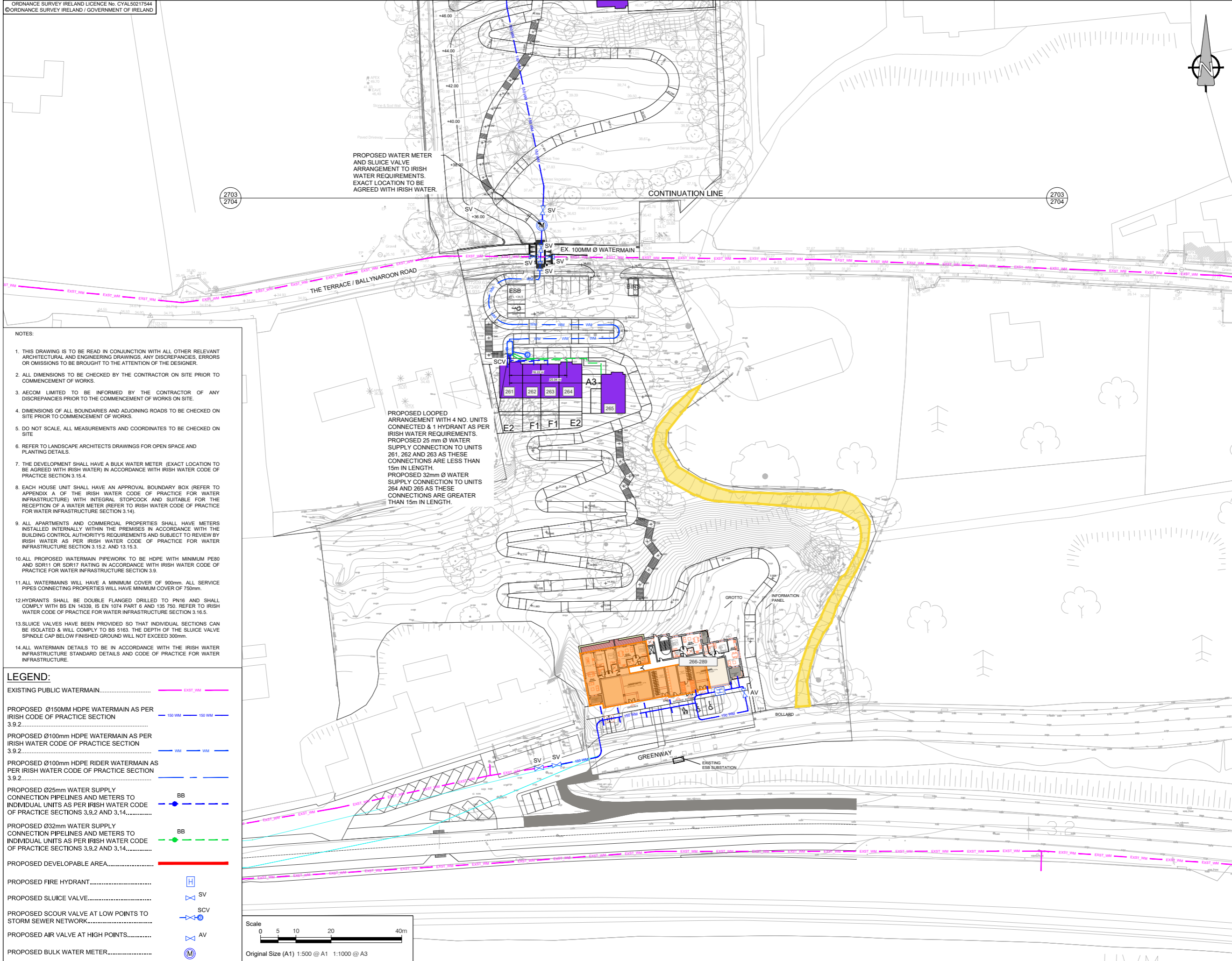
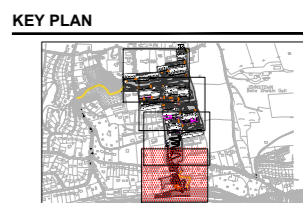
PROJECT NUMBER
 60592432

SHEET TITLE
 PROPOSED WATERMAIN LAYOUT SHEET 3 OF 4

SHEET NUMBER
 60592432-ACM-00-00-DR-CE-10-2703

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LEGEND:

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PROPOSED Ø150MM HDPE WATERMAIN AS PER IRISH CODE OF PRACTICE SECTION 3.9.2.....	----- 150_WM -----
PROPOSED Ø100mm HDPE WATERMAIN AS PER IRISH WATER CODE OF PRACTICE SECTION 3.9.2.....	----- WM -----
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PROPOSED SLUCE VALVE.....	----- SV -----
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PROPOSED BULK WATER METER.....	----- M -----

