

SW NETWORK 1 MANHOLES								
MANHOLE NO.	MANHOLE CO-ORDINATES	COVER LEVEL (m)	DEPTH TO INVERT (m)	MANHOLE SIZE (m)	MANHOLE TYPE / COVER SIZE (mm)	COVER TYPE	PIPE IN NAME, INVERT LEVEL (m) & DIA	PIPE OUT NAME, INVERT LEVEL (m) & DIA
S1.01	E-442861.057 N-406945.015	61.927	1.955	1.200	TYPE B / 600 x 600	D400	SD1.02, IL=60.047, 150mmØ SD1.01, IL=60.047, 150mmØ	S1.000, IL=59.972, 225mmØ
S1.02	E-442877.111 N-406965.513	61.511	2.586	1.200	TYPE B / 600 x 600	D400	S1.000, IL=58.925, 225mmØ SD1.01, IL=60.273, 150mmØ	S1.001, IL=58.925, 225mmØ
S1.03	E-442888.292 N-406964.110	61.317	2.534	1.200	TYPE B / 600 x 600	D400	S1.001, IL=58.858, 225mmØ SD1.03, IL=60.330, 150mmØ SD1.04, IL=58.933, 150mmØ	S1.002, IL=58.783, 300mmØ
S1.04	E-442937.565 N-406929.295	61.410	2.875	1.350	TYPE B / 600 x 600	D400	S1.002, IL=58.533, 300mmØ SD1.05, IL=60.273, 150mmØ	S1.003, IL=58.535, 300mmØ
S1.05	E-442947.740 N-406931.610	61.018	2.718	1.350	TYPE B / 600 x 600	D400	S1.003, IL=58.300, 300mmØ SD1.06, IL=59.668, 150mmØ	S1.004, IL=58.300, 300mmØ
S1.06	E-442980.217 N-406977.056	58.757	2.041	1.350	TYPE B / 600 x 600	D400	S1.004, IL=56.716, 300mmØ SD1.07, IL=57.629, 150mmØ	S1.005, IL=56.716, 300mmØ
S1.07	E-442994.179 N-407001.598	57.729	3.569	2.400	TYPE B / 600 x 600	D400	S1.005, IL=54.760, 300mmØ SD1.08, IL=55.941, 150mmØ	S1.006, IL=54.160, 900mmØ
S1.08	E-442941.222 N-407039.664	57.885	3.856	2.700	TYPE B / 600 x 600	D400	S1.006, IL=54.029, 900mmØ SD2.000, IL=54.029, 900mmØ SD1.11, IL=56.385, 300mmØ	S1.007, IL=54.029, 900mmØ
S1.09	E-442930.970 N-407067.352	58.376	3.900	1.800	TYPE B / 600 x 600	D400	SD1.09, IL=56.705, 150mmØ SD1.10, IL=56.705, 150mmØ	S2.000, IL=54.476, 900mmØ
S1.10	E-442954.984 N-407058.911	57.270	3.288	2.100	TYPE B / 600 x 600	D400	S1.007, IL=53.982, 900mmØ	S1.008, IL=53.982, 900mmØ
S1.11	E-442971.630 N-407093.247	56.576	2.672	2.100	TYPE B / 600 x 600	D400	S1.008, IL=53.904, 900mmØ SD1.12, IL=54.504, 300mmØ	S1.009, IL=53.904, 900mmØ
S1.12	E-442981.863 N-407107.534	56.323	2.454	2.100	TYPE B / 600 x 600	D400	S1.009, IL=53.870, 900mmØ	S1.010, IL=53.870, 900mmØ
S1.13	E-442989.445 N-407117.522	56.075	2.230	2.100	SHALLOW MANHOLE	D400	S1.010, IL=53.845, 900mmØ	S1.011, IL=53.845, 900mmØ
S1.14	E-442985.873 N-407120.094	56.156	2.505	2.400	TYPE B / 600 x 600	D400	S1.011, IL=53.819, 900mmØ SD1.13, IL=54.494, 225mmØ	S1.012, IL=53.819, 900mmØ
S1.15	E-442992.970 N-407129.949	56.176	2.466	2.100	TYPE B / 600 x 600	D400	S1.012, IL=53.795, 900mmØ	S1.013, IL=53.795, 900mmØ
S1.16	E-443035.572 N-407094.612	55.151	1.448	1.350	SHALLOW MANHOLE	D400	SD1.14, IL=53.853, 300mmØ	S3.000, IL=53.703, 450mmØ
* S1.17	E-443005.869 N-407106.752	54.816	1.214	1.800	TYPE C / 1220 x 675	D400	S1.014, IL=53.602, 225mmØ	S1.015, IL=53.602, 225mmØ

* DENOTES FLOW CONTROL CHAMBER

FW NETWORK 1 MANHOLES								
MANHOLE NO.	MANHOLE CO-ORDINATES	COVER LEVEL (m)	DEPTH TO INVERT (m)	MANHOLE SIZE (m)	MANHOLE TYPE / COVER SIZE (mm)	COVER TYPE	PIPE IN NAME, INVERT LEVEL (m) & DIA	PIPE OUT NAME, INVERT LEVEL (m) & DIA
F1.01	E-442862.340 N-406943.189	61.982	1.360	1.350	TYPE C / 1220 x 675	D400	FD1.02, IL=60.622, 100mmØ FD1.01, IL=60.622, 100mmØ	F1.000, IL=60.622, 100mmØ
F1.02	E-442876.871 N-406962.823	61.595	1.595	1.350	TYPE C / 1220 x 675	D400	F1.000, IL=60.050, 100mmØ	F1.001, IL=60.000, 150mmØ
F1.03	E-442884.509 N-406963.217	61.441	2.095	1.350	TYPE B / 600 x 600	D400	F1.001, IL=59.346, 150mmØ FD1.03, IL=59.396, 100mmØ FD1.04, IL=59.396, 100mmØ	F1.002, IL=59.346, 150mmØ
F1.04	E-442936.187 N-406927.824	61.476	2.594	1.200	TYPE B / 600 x 600	D400	F1.002, IL=58.882, 150mmØ FD1.05, IL=58.932, 100mmØ	F1.003, IL=58.882, 150mmØ
F1.05	E-442947.869 N-406929.124	61.117	2.322	1.350	TYPE B / 600 x 600	D400	F1.003, IL=58.795, 150mmØ FD1.06, IL=58.845, 100mmØ	F1.004, IL=58.795, 150mmØ
F1.06	E-442982.954 N-406978.589	58.691	1.350	1.350	TYPE C / 1220 x 675	D400	F1.004, IL=57.341, 150mmØ FD1.07, IL=57.391, 100mmØ	F1.005, IL=57.341, 150mmØ
F1.07	E-442994.044 N-406998.644	57.774	1.554	1.350	TYPE C / 1220 x 675	D400	F1.005, IL=56.220, 150mmØ FD1.8, IL=56.270, 100mmØ	F1.006, IL=56.220, 150mmØ
F1.08	E-442937.983 N-407038.969	57.983	2.275	1.200	TYPE B / 600 x 600	D400	F1.006, IL=55.708, 150mmØ F2.000, IL=55.708, 150mmØ FD1.11, IL=55.708, 150mmØ	F1.007, IL=55.708, 150mmØ
F1.09	E-442918.851 N-407052.118	58.194	1.811	1.350	TYPE B / 600 x 600	D400	FD1.09, IL=56.433, 100mmØ FD1.10, IL=56.393, 150mmØ	F2.000, IL=56.383, 150mmØ
F1.10	E-442952.802 N-407057.813	57.382	1.848	1.200	TYPE B / 600 x 600	D400	F1.007, IL=55.534, 150mmØ	F1.008, IL=55.534, 150mmØ
F1.11	E-442968.434 N-407092.834	56.661	1.414	1.350	TYPE C / 1220 x 675	D400	F1.008, IL=55.247, 150mmØ FD1.12, IL=55.297, 100mmØ	F1.009, IL=55.247, 150mmØ
F1.12	E-442981.761 N-407111.802	56.322	1.374	1.350	TYPE C / 1220 x 675	D400	F1.009, IL=54.948, 150mmØ FD1.13, IL=54.998, 100mmØ	F1.010, IL=54.948, 150mmØ

SW NETWORK 1 DEMARICATION CHAMBER SCHEDULE						
MANHOLE NO.	MANHOLE CO-ORDINATES	COVER LEVEL (m)	DEPTH TO INVERT (m)	MANHOLE SIZE (m)	MANHOLE TYPE / COVER DIA (mm)	PIPE OUT NAME, INVERT LEVEL (m) & DIA
SD1.01	E-442848.767 N-406939.995	62.142	1.820	0.450	PPIC / 350	SD1.01, IL=60.322, 150mmØ
SD1.02	E-442860.116 N-406937.096	62.175	1.825	0.450	PPIC / 350	SD1.02, IL=60.350, 150mmØ
SD1.03	E-442863.111 N-406958.783	61.683	1.270	0.450	PPIC / 350	SD1.03, IL=60.413, 150mmØ
SD1.04	E-442892.441 N-406969.973	61.067	1.964	0.450	PPIC / 350	SD1.04, IL=59.103, 150mmØ
SD1.05	E-442924.841 N-406930.621	61.700	1.299	0.450	PPIC / 350	SD1.05, IL=60.401, 150mmØ
SD1.06	E-442941.967 N-406935.128	61.206	1.463	0.450	PPIC / 350	SD1.06, IL=59.743, 150mmØ
SD1.07	E-442975.405 N-406977.381	59.022	1.345	0.450	PPIC / 350	SD1.07, IL=57.677, 150mmØ
SD1.08	E-442967.915 N-407005.096	57.763	1.771	0.450	PPIC / 350	SD1.08, IL=55.992, 150mmØ
SD1.09	E-442993.563 N-407022.033	58.432	1.300	0.450	PPIC / 350	SD1.09, IL=57.132, 150mmØ
SD1.10	E-442964.418 N-407062.134	58.673	1.365	0.450	PPIC / 350	SD1.10, IL=57.308, 150mmØ
SD1.11	E-442936.036 N-407032.337	58.208	1.511	0.600	PPIC / 350	SD1.11, IL=56.697, 300mmØ
SD1.12	E-442964.844 N-407096.247	56.875	2.060	0.450	PPIC / 350	SD1.12, IL=54.815, 300mmØ
SD1.13	E-442965.963 N-407133.043	56.655	1.394	0.600	PPIC / 350	SD1.13, IL=55.261, 225mmØ
SD1.14	E-443032.869 N-407090.434	55.298	1.366	0.600	PPIC / 350	SD1.14, IL=53.932, 300mmØ

FW NETWORK 1 DEMARICATION CHAMBER SCHEDULE						
MANHOLE NO.	MANHOLE CO-ORDINATES	COVER LEVEL (m)	DEPTH TO INVERT (m)	MANHOLE SIZE (m)	MANHOLE TYPE / COVER DIA (mm)	PIPE OUT NAME, INVERT LEVEL (m) & DIA
FD1.01	E-442848.832 N-406937.741	62.122	1.329	0.450	PPIC / 350	FD1.01, IL=60.793, 100mmØ
FD1.02	E-442863.152 N-406939.165	62.189	1.315	0.450	PPIC / 350	FD1.02, IL=60.874, 100mmØ
FD1.03	E-442880.109 N-406958.033	61.836	2.086	0.450	PPIC / 350	FD1.03, IL=59.750, 100mmØ
FD1.04	E-442888.382 N-406970.772	61.241	1.739	0.450	PPIC / 350	FD1.04, IL=59.502, 100mmØ
FD1.05	E-442926.444 N-406928.902	61.684	1.934	0.450	PPIC / 350	FD1.05, IL=59.750, 100mmØ
FD1.06	E-442938.849 N-406935.100	61.367	2.117	0.450	PPIC / 350	FD1.06, IL=59.250, 100mmØ
FD1.07	E-442975.886 N-406981.095	58.967	1.340	0.450	PPIC / 350	FD1.07, IL=57.627, 100mmØ
FD1.08	E-443001.480 N-407022.908	57.675	1.300	0.450	PPIC / 350	FD1.8, IL=56.375, 100mmØ
FD1.09	E-442919.575 N-407050.410	58.243	1.706	0.450	PPIC / 350	FD1.09, IL=56.537, 100mmØ
FD1.10	E-442914.502 N-407048.382	58.484	1.634	0.450	PPIC / 350	FD1.10, IL=56.850, 150mmØ
FD1.11	E-442935.365 N-407034.717	58.166	2.001	0.450	PPIC / 350	FD1.11, IL=56.165, 150mmØ
FD1.12	E-442964.348 N-407093.565	56.890	1.305	0.450	PPIC / 350	FD1.12, IL=55.585, 100mmØ
FD1.13	E-442978.379 N-407114.160	56.493	1.283	0.450	PPIC / 350	FD1.13, IL=55.210, 100mmØ

SW HEADWALLS			
HEADWALL REF	MANHOLE CO-ORDINATES	PIPE IN NAME, INVERT LEVEL (m) & DIA	NOTES
Basin 01 S1.016 (I)	E-443012.063 N-407124.203	S1.013, IL=53.742, 900mmØ	BASIN INLET
Basin 01 S1.017 (O)	E-443059.220 N-407100.203	S3.000, IL=53.687, 450mmØ	BASIN OUTLET
Basin 01 S3.000 (I)	E-443082.232 N-407101.720	S1.015, IL=53.500, 225mmØ	OUTFALL INTO EXISTING DITCH

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING REFERENCES: 25027-LE-ZZ-ZZ-DR-D

SECTION 104
3000 - SECTION 104 - SITE LOCATION PLAN
3001 - SECTION 104 - DRAINAGE PLAN - SHEET 1
3002 - SECTION 104 - DRAINAGE PLAN - SHEET 2
3003 - SECTION 104 - CHAMBER SCHEDULE - SHEET 1
3004 - SECTION 104 - TYPICAL DETAILS
3005 - SECTION 104 - HEADWALL DETAILS
3006 - SECTION 104 - FLOW CONTROL DETAILS
3007 - SECTION 104 - CATCHMENT AREAS - SHEET 1
3008 - SECTION 104 - CATCHMENT AREAS - SHEET 2
3009 - SECTION 104 - FLOOD ROUTING - SHEET 1
3010 - SECTION 104 - FLOOD ROUTING - SHEET 2

SECTION 38
0015 - SECTION 38 - HIGHWAY AND DRAINAGE CONNECTIONS - SHEET 1
0016 - SECTION 38 - HIGHWAY AND DRAINAGE CONNECTIONS - SHEET 2

THIS DRAWING IS BASED ON THE FOLLOWING DRAWINGS & DOCUMENTATION:
1. LANDSCAPE LAYOUT - SITE ARCHITECTURE REF 2051 01-01
2. TOPOGRAPHICAL SURVEY - 10 SITE SERVICES REF 2051 01-02
DATED MARCH 2021

HEALTH & SAFETY RISKS

IN ADDITION TO THE STANDARD HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING RESIDUAL ABNORMAL HEALTH AND SAFETY RISKS:
ANOMALOUS CONSTRUCTION RISKS
CR01 CONSTRUCTION IN AND AROUND EXISTING BURIED SERVICES - CONTRACTOR TO OBTAIN ACCURATE LOCATIONS OF UNDERGROUND SERVICES WITHIN THE SITE BOUNDARY PRIOR TO COMMENCEMENT OF WORKS. CONTRACTOR TO ALLOW FOR THE FULL SATISFACTION OF THE RELEVANT AUTHORITY AND TO ALLOW FOR RISK ASSESSMENT AND PROTECT MITIGATION TO SUIT.
CR02 EXISTING MAJOR SERVICES KNOWN TO BE PRESENT WITHIN THE SITE BOUNDARY. EXTRA PRECAUTIONS TO BE TAKEN IN THE VICINITY OF THE EXISTING SERVICES. CONTRACTOR TO ALLOW FOR RISK ASSESSMENT AND PROTECT MITIGATION TO SUIT.
CR03 INFOSOURCE BURIED HAZARDOUS MATERIALS & SUBSTANCES INCLUDING ASBESTOS, UNKNOWN CONTAMINATED LAND MAY BE UNCOVERED DURING THE CONSTRUCTION PHASE. CONTRACTOR TO DETERMINE SAFE METHODS OF WORKING IN CONFORMANCE WITH THE RELEVANT REGULATIONS AND TO BE IN ACCORDANCE WITH THE CONCRETE PROTECTION SLAB.
CR04 DEEP SENSING DEEP DETECTION REQUIRED. PIPING MAY BE REQUIRED TO ENSURE EXCAVATIONS REMAIN DRY. CONTRACTOR TO ALLOW FOR RISK ASSESSMENT AND PROVIDE MITIGATION TO SUIT.
CR05 SURFACE WATER OUTFALLS INTO EXISTING WATERCOURSE. CONTRACTOR TO DETERMINE APPROPRIATE METHOD TO MAINTAIN WATERCOURSE FLOWS DURING WORKS AND ENSURE NO CONSTRUCTION WASTE ENTERS THE WATERCOURSE.

ANOMALOUS OPERATION & MAINTENANCE RISKS
MR01 APPROPRIATE FUTURE MAINTENANCE SHOULD BE IMPLEMENTED TO WATERCOURSE AND BANKS ALONG WITH PROPOSED DRAINAGE, TO MITIGATE POTENTIAL FLOOD EXCESSANCE/BLOCKAGE OF DRAINAGE/WATERCOURSE.
MR02 APPROPRIATE FUTURE MAINTENANCE SHOULD BE IMPLEMENTED TO WHITE PROPHATE (EW) LAND DRAINAGE TO MITIGATE POTENTIAL CONTAMINATED FLOOD WATER.
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE CON REGULATIONS 2015.

GENERAL NOTES

- THESE NOTES ARE INTENDED TO ADJUST DRAWINGS AND SPECIFICATIONS. WHERE CONFLICT OF REQUIREMENTS EXIST THE ORDER OF PRECEDENCE SHALL BE AS SHOWN IN THE SPECIFICATION. OTHERWISE THE STRICTEST PROVISION SHALL APPLY.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS AND SPECIFICATIONS.
 - DRAWINGS NOT TO BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER AND FURTHER INSTRUCTIONS OBTAINED BEFORE WORK IS COMMENCED.
- DRAINAGE NOTES**
DR1 ALL ADAPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH "CODE FOR ADOPTABLE" THE RELEVANT BRITISH/BREITANIAN AND UK STANDARDS REQUIREMENTS/ACCORDANT AND ITEM MARKED.
DR2 MANHOLE COVERS AND COMPONENTS TO BE CONSTRUCTED AND TESTED TO THE FULL SATISFACTION OF THE RELEVANT AUTHORITY AND TO ACCORDANCE WITH THE CODE FOR ADOPTABLE.
DR3 ALL COMPONENTS USED IN DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING:
DR4 ALL MANHOLE COVERS AND COMPONENTS TO BE CONSTRUCTED AND TESTED TO THE FULL SATISFACTION OF THE RELEVANT AUTHORITY AND TO ACCORDANCE WITH THE CODE FOR ADOPTABLE.
DR5 VENTILATED VITRIFIED CLAY, VITRIFIED CLAY PIPE AND FITTINGS TO COMPLY WITH THE RELEVANT BRITISH/BREITANIAN AND UK STANDARDS REQUIREMENTS/ACCORDANT AND ITEM MARKED.
DR6 WHERE COVER TO PIPE IS LESS THAN 1.2m OR 0.9m IN RURAL TRAFFICED AREAS TO BE CONSTRUCTED TO THE FULL SATISFACTION OF THE RELEVANT AUTHORITY AND TO ACCORDANCE WITH THE CODE FOR ADOPTABLE.
DR7 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR8 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR9 PRECAST CONCRETE RINGS AND COVER SLABS TO BE JOINED WITH CEMENT MORTAR.
DR10 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR11 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR12 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR13 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR14 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR15 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR16 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR17 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR18 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR19 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR20 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR21 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR22 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR23 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR24 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR25 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR26 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR27 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR28 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR29 ALL CONCRETE PIPES TO BE CLASSIFIED TO BS EN 12058-1:2000.
DR30 ALL CONCRE