

PRIVATE DRAINAGE MANHOLE SCHEDULE

CHAMBER REF	COVER LEVEL	DEPTH TO INVERT (m)	COVER DEPTH (m)	PIPE OUT INVERT LEVEL (m)	PIPE OUT DIA (mm)	PIPES IN INVERT LEVEL (m)	BACKDROP (m)	DISTANCE TO D/S MH (m)	D/S GRADIENT	CHAMBER SIZE AND TYPE	COVER TYPE AND OPENING
SURFACE WATER											
S1	114.000	1.250	1.100	112.750	150	112.750		10.3	128.8	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
S2	114.300	0.750	0.600	113.550	150	113.550		12.4	14.1	450DIA PPIC NON ENTRY	450 CIRCULAR, B125 COVER
S3	114.220	1.550	1.400	112.670	150	112.670		1.3	129.0	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
S4 SILT TRAP	114.240	1.580	1.430	112.660	150	112.660		1.3	129.0	500DIA PPIC NON ENTRY WAVIN 6LB600 SILT TRAP OSA	300 x 300 OPENING. ROUND DUCTILE IRON COVER & FRAMER
S5	114.600	1.000	0.850	113.600	150	113.600		4.4	88.0	450DIA PPIC NON ENTRY	450 CIRCULAR, C250 COVER
S6	114.900	0.750	0.600	114.150	150	114.150		5.9	98.3	300DIA PPIC NON ENTRY	300 CIRCULAR, B125 COVER
S7	115.100	1.010	0.860	114.090	150	114.090		4.7	94.0	300DIA PPIC NON ENTRY	300 CIRCULAR, B125 COVER
S8 SILT TRAP	115.200	1.160	1.010	114.040	150	114.040		8.2	16.7	500DIA PPIC NON ENTRY WAVIN 6LB600 SILT TRAP OSA	300 x 300 OPENING. ROUND DUCTILE IRON COVER & FRAMER
S9	115.200	0.750	0.600	114.450	150	114.450		10.6	37.9	450DIA PPIC NON ENTRY	450 CIRCULAR, B125 COVER
S10	115.500	1.330	1.180	114.170	150	114.170		11.9	32.2	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, B125 COVER
S11	115.050	0.750	0.600	114.300	150	114.300		12.4	24.8	450DIA PPIC NON ENTRY	450 CIRCULAR, B125 COVER
S12	115.050	0.675	0.525	114.375	150	114.375		1.6	4.9	300DIA PPIC NON ENTRY	300 CIRCULAR, B125 COVER
S13 BD	115.050	2.170	2.020	112.880	150	113.800	0.920	9.8	98.0	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
					FROM STORAGE	112.880					
S14 BD	115.050	2.270	2.120	112.780	150	113.700	0.920	4.3	86.0	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
FOUL WATER											
F1	115.100	1.300	1.200	113.800	100	113.800		9.0	75.0	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
F2	115.100	1.420	1.320	113.680	100	113.680		7.2	25.7	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
F3	115.050	1.650	1.550	113.400	100	113.400		13.1	87.3	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
F4	115.050	0.850	0.750	114.200	100	114.200		2.1	35.0	450DIA PPIC NON ENTRY	450 CIRCULAR, B125 COVER
F5	115.050	1.300	1.200	113.750	100	113.750		4.4	9.8	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
F6 BD	115.050	1.750	1.650	113.300	100	114.140	0.840	5.6	80.0	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
F7	115.050	0.850	0.750	114.200	100	114.200		2.3	38.3	450DIA PPIC NON ENTRY	450 CIRCULAR, B125 COVER
F8 BD	115.050	1.820	1.720	113.230	100	114.140		7.9	79.0	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
F9	114.700	1.570	1.470	113.130	100	113.130		8.2	45.6	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
F10 BD	114.250	1.670	1.570	112.580	100	112.950	0.370	14.9	99.3	450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
F11	114.200	1.000	0.900	113.200	100	113.200		6.1	30.5	450DIA PPIC NON ENTRY	450 CIRCULAR, B125 COVER
F12	114.200	1.200	1.100	113.000	100	113.000		6.3	11.1	450DIA PPIC NON ENTRY	450 CIRCULAR, B125 COVER
F13	113.700	0.700	0.600	113.000	100	113.000		5.4	38.6	450DIA PPIC NON ENTRY	450 CIRCULAR, B125 COVER
F14	113.700	0.840	0.740	112.860	100	112.860		4.8	11.2	450DIA PPIC NON ENTRY	450 CIRCULAR, B125 COVER
F15 DMC	113.900	1.470	1.370	112.430	100	112.430				450DIA PPIC NON ENTRY	450 CIRCULAR WITH 350 REDUCER, C250 COVER
F16	113.850	1.650	1.550	112.200	100	112.325				1350 DIA TYPE 2 PCC MANHOLE	675 x 675 SQ, D400 DI

NOTES

Do not scale, if in doubt ask

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES, ALL LEVELS ARE SHOWN IN METRES.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND PROJECT SPECIFICATIONS.
3. THE BASE DRAWING (TOPOGRAPHICAL SURVEY) HAS BEEN PROVIDED BY OTHERS (SEE BELOW). SURVEY STATION LOCATION AND CO-ORDINATES TO BE CONFIRMED ON SITE PRIOR TO THE COMMENCEMENT OF SETTING OUT.
4. ALL PIPE LENGTHS AND GRADIENTS ARE BASED ON CENTRE OF MANHOLE TO CENTRE OF MANHOLE.
5. ALL PIPES LAID WITH LEVEL SOFFITS AND ALL MANHOLE/INSPECTION CHAMBER INVERT LEVELS SHOWN ARE FOR THE OUTLET PIPE (UNLESS OTHERWISE SHOWN). PIPE RUNS SHALL BE LAID TO BE THE LEVELS INDICATED AND ALL PIPE GRADIENTS INDICATED ARE APPROXIMATE.
6. ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS EN:752 DRAIN AND SEWER SYSTEMS OUTSIDE BUILDING, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS.
7. ANY DRAINAGE AS DESIGNATED OUTSIDE OF THE SITE PUT FORWARD FOR ADOPTION CONSTRUCTED TO DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS "THE CODE", AND ANY SPECIFIC REQUIREMENTS OF THE ADOPTING AUTHORITY.
8. RAINWATER PIPES - ALL CONNECTIONS FROM RWP'S TO BE 100Ø 1/60 MIN WITH CLASS Z BEDDING UNO. RWP'S ARE SHOWN INDICATIVELY, FOR EXACT LOCATIONS REFER TO ARCHITECTS DETAILS.
9. THRESHOLD DRAINS - WHERE REQUIRED, SLOT DRAIN TO BE PROVIDED ACROSS DOORWAYS IN-LINE WITH ARCHITECT'S DETAILS AND CONNECTED WITH 100Ø OUTLET TO NEAREST AVAILABLE SURFACE WATER DRAIN WITH JUNCTION OR DIRECT TO MANHOLE/PPIC.
10. WASTE PIPE CONNECTIONS - ALL CONNECTIONS FROM FOUL DRAINAGE POINTS TO BE 100Ø 1:40 MIN UNO. WHERE PIPE RUNS ARE WITHIN FLOOR VOID CLASS ZX BEDDING SURROUND SHALL BE USED (REFER TO STANDARD DETAILS DRAWINGS) OTHERWISE CLASS S BEDDING TO BE USED. WASTE PIPE CONNECTIONS ARE SHOWN INDICATIVELY, FOR EXACT LOCATIONS REFER TO ARCHITECTS DETAILS.
11. ALL EXTERNAL PIPEWORK TO BE LAID WITH A CLASS S PIPE BEDDING DETAIL WITH 1.2m MINIMUM COVER TO THE PIPE BARREL UNDER VEHICULAR TRAFFICKED AREAS, 0.9m COVER UNDER FIELDS AND 0.6m COVER UNDER FOOTWAYS AND GARDENS.
12. UNLESS OTHERWISE NOTED ON THE DRAWING WHERE COVER IS LESS THAN THAT STATED ABOVE, A CLASS Z PIPE BEDDING DETAIL SHALL BE USED.
13. WHERE TWO PIPELINES CROSS WITH LESS THAN 300mm BETWEEN PIPES, EACH PIPE SHOULD BE SURROUNDED WITH A FULL CONCRETE BED AND SURROUND (CLASS Z DETAIL) FOR NOT LESS THAN 1m CENTRED ON THE CROSSING AND EXTENDED AS REQUIRED TO WITHIN 150mm OF THE NEAREST FLEXIBLE JOINT.
14. NO MECHANICAL COMPACTION OF FILL MATERIAL SHALL BE PERMITTED WITHIN 300mm ABOVE THE BARREL/CROWN OF THE PIPE.
15. THE LOCATION, SIZE AND DEPTH OF ALL EXISTING DRAINS/SEWERS AND SERVICES SHALL BE ESTABLISHED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS ON SITE. ANY DISCREPANCIES FROM THE INFORMATION INDICATED ON THESE DRAWINGS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
16. ALL LEVELS AND DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
17. THE CONTRACTOR SHALL ALLOW FOR DEALING WITH SURFACE WATER RUN-OFF INTO EXCAVATIONS AND FROM GROUNDWATER BY MEANS OF SUMPS, PUMPING AND DE-WATERING AS APPROPRIATE, IN ORDER TO KEEP THE EXCAVATION AS REASONABLY DRY AS POSSIBLE DURING THE CONSTRUCTION OF THE WORKS.
18. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS IN LINE WITH CURRENT LEGISLATION WHEN WORKING IN/NEAR CONFINED SPACES, DEEP EXCAVATIONS AND MACHINERY.
19. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT AND DIVERSION WORKS AS NECESSARY, TO ALL EXISTING SERVICES TO THE SATISFACTION OF THE PUBLIC UTILITIES.
20. FOR DRAINAGE STANDARD DETAILS REFER TO RELEVANT STRUCTURAL SOLUTIONS DRAWING.
21. ALL RAINWATER PIPES/INTERNAL FOUL DRAIN CONNECTIONS ARE TO BE AS SHOWN, WITH ADAPTORS AT FINISHED FLOOR LEVEL TO SUIT CONNECTION DETAILS BY OTHERS.
22. ALL SVPS TO BE FITTED WITH RODDABLE ACCESS AT ABOVE GROUND LEVELS (REFER TO M&E DRAWINGS)
23. UPON COMPLETION OF THE WORKS THE CONTRACTOR SHALL CLEAN ALL DRAINAGE BY JETTING, REMOVING DEBRIS FROM SITE. NO DEBRIS SHALL BE PERMITTED TO ENTER THE PUBLIC SEWER OR WATERCOURSE SYSTEM. ALL THE DRAINS SHALL BE CCTV SURVEYED.

CDM LEGEND

- INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION
- INDICATES A RESIDUAL RISK FOR INFORMATION
- INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION
- INDICATES A RESIDUAL RISK AS A WARNING

NOTE 1
OUTLET PIPE AT MHS1 AT SITE LOW POINT TO BE FITTED WITH FLAP VALVE TO PREVENT BACKFLOWS.

KEY	
	APPROX SITE BOUNDARY
	EXISTING WESSEX WATER FOUL WATER SEWER
	EXISTING SHARED PRIVATE DRAINAGE
	ABANDONED
	DIVERTED PRIVATE SHARED DRAINAGE
	PROPOSED PRIVATE FOUL WATER DRAINAGE
	PROPOSED PRIVATE SURFACE WATER DRAINAGE
	PROPOSED CHANNEL DRAIN WITH SUMP OUTLET

ABBREVIATIONS (WHERE APPLICABLE)	
CL	COVER LEVEL
DIA	DIAMETER
DMC	DEMARCATION CHAMBER
D/S	DOWNSTREAM
FFL	FINISHED FLOOR LEVEL
G	GULLY
GL	GROUND LEVEL
IL	INVERT LEVEL
MH	MANHOLE
OSA	OR SIMILAR APPROVED
PCC	PRECAST CONCRETE CHAMBER
PPIC	POLYPROPYLENE INSPECTION CHAMBER
RE	RODDING EYE
RWP	RAINWATER PIPE
S	SUMP
U/S	UPSTREAM
WW	WESSEX WATER

REV	DATE	AMENDMENT		
P1	14/03/24	ISSUED FOR S73 APPLICATION	RV	

DRAWING STATUS

PLANNING

STRUCTURAL SOLUTIONS CHARTERED ENGINEERS
DAIRY STUDIOS | 102 LINCOLN STREET | BRISTOL | BS5 0BJ T. 0117 924 5014

PROJECT
THE BIDDESTONE ARMS, CHIPPENHAM, SN14 7DG
PLOT 4 S73 APPLICATION

TITLE
PROPOSED FOUL AND SURFACE WATER DRAINAGE LAYOUT

SCALE	SHEET SIZE	DATE		
1:125	A1	MARCH 24	RV	DT

PROJECT NO.	DRAWING NO.	REV.
9672BAC	P510	P1