

ENGLISH WATER NOTES

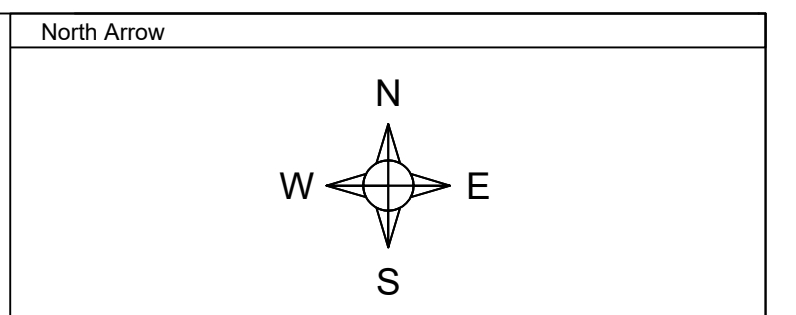
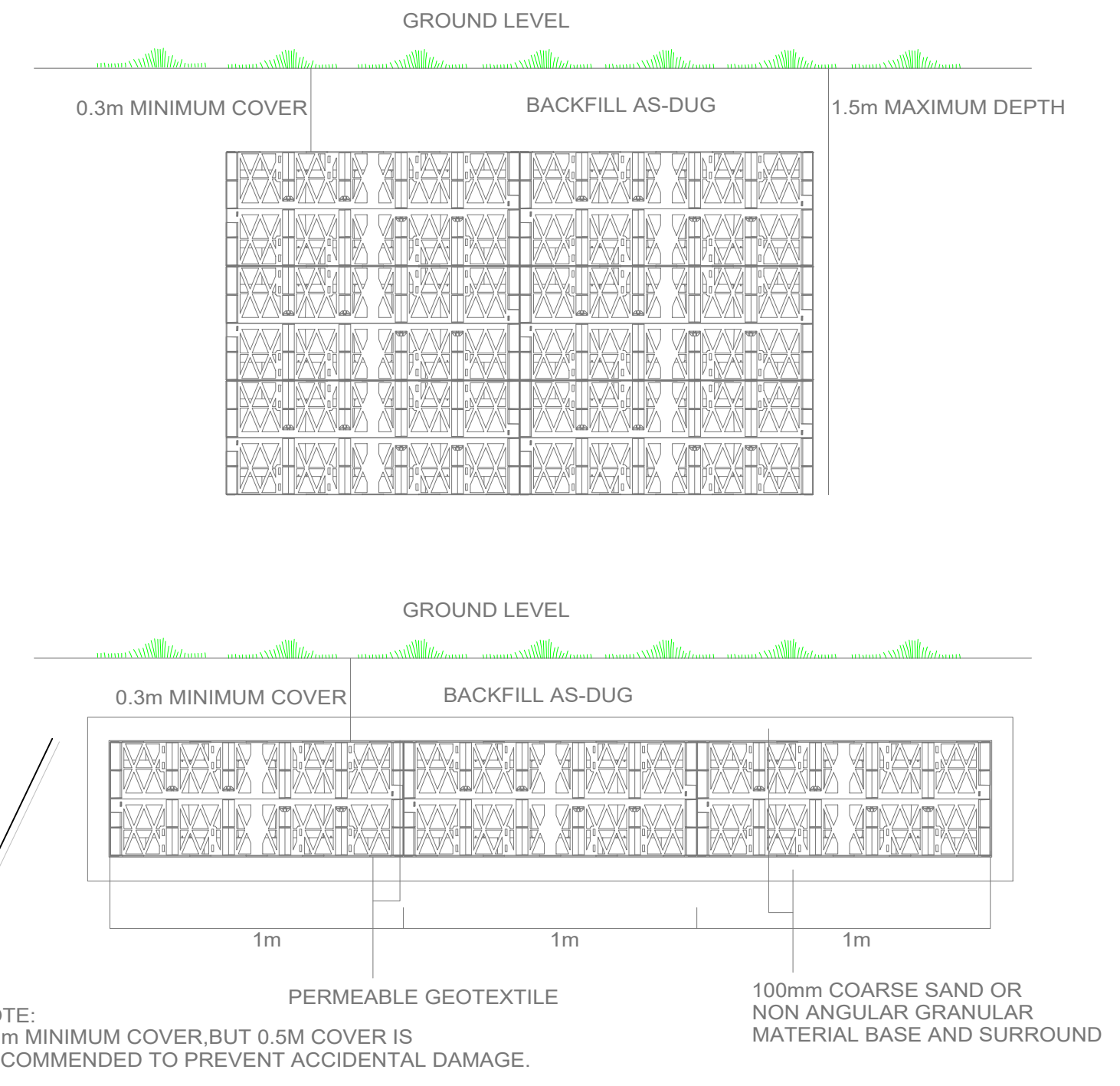
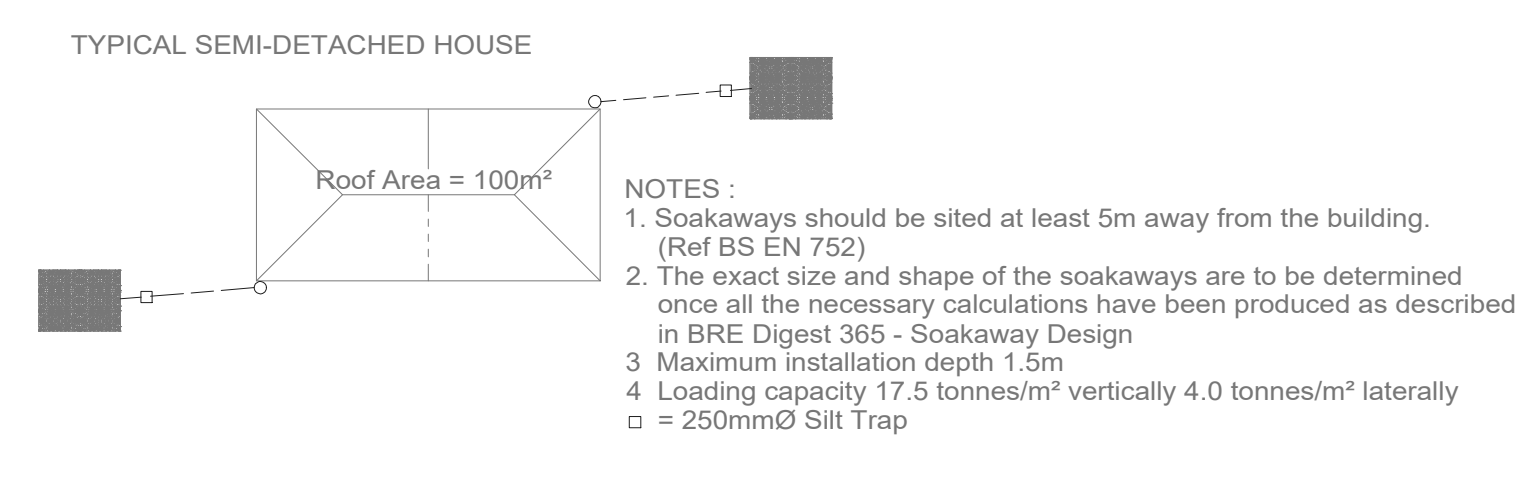
ALL SECTION 104 ADOPTABLE DRAINAGE SHALL CONFORM TO THE DESIGN AND CONSTRUCTION GUIDE (DCG) FOR DEVELOPERS (SEWERAGE SECTOR GUIDANCE APPENDIX C, MARCH 2020) CURRENT AT THE TIME OF EXECUTION.

ALL COVERS AND FRAMES ON ADOPTABLE AW SEWERS ARE TO BE D400, KITEMARKED AND BE BAGGED TYP OR SWV ACCORDINGLY. SUPPLIERS SHALL BE STANTON, PAUL, SAVAGE, NORRICO OR WREKIN.

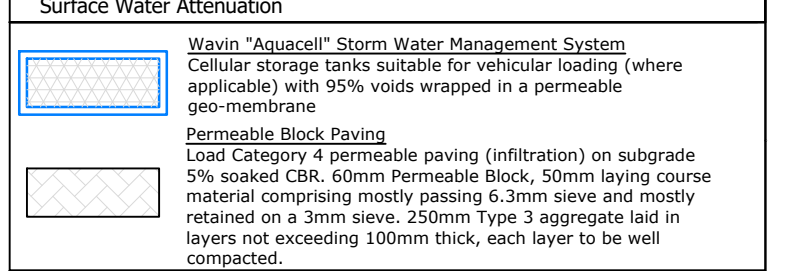
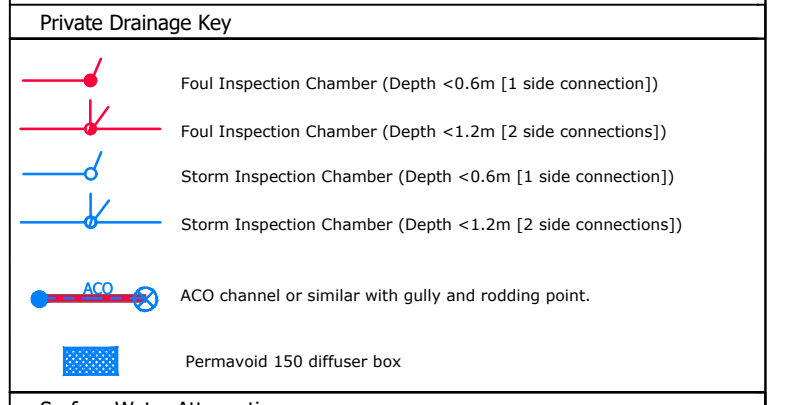
ADOPTABLE PIPEWORK SHALL BE TO THE FOLLOWING SPECIFICATION:

- CLAYWARE: BS EN 295-1:1991
ø150 DIA. CRUSHING STRENGTH 34KN/M
ø225 DIA. CLASS 160
- CONCRETE: BS EN 5911-1:2002
ø300 DIA. CLASS 120
- PLASTIC: BS EN 13476-1
- FLUKE HS PIPEWORK 16KN/M²
- HDPE TWIN WALL PIPEWORK 380
- POLYPIPE RIGIDSEWER (ø150 - ø300mm)
- POLYPIPE RIGIDSEWER (ø400 - ø900mm)
- WEHOLTE APPROVED PIPEWORK

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH "MTC STANDARD DETAIL 1: ADOPTABLE DRAINAGE CONSTRUCTION DETAILS (DCG APPENDIX C 2020)".



- NOTES**
- The contractor shall check all tie-ins for line and level with existing before commencing any works. The Engineer shall be notified immediately, in writing, should any errors be found.
 - Any discrepancies, of whatever nature, must be reported to the Engineer prior to the commencement or continuation of any further works.
 - All private drainage works to be in accordance with the requirements of Building Regulations 2010, Part H, "Drainage and waste disposal", (01st October 2015).
 - All pipes to be bedded and backfilled in accordance with Part H, Diagram 10. Shallow pipes shall be protected in accordance with Part H, Diagram 11.
 - Unless otherwise stated, all private drainage to be 100mm diameter. Gradients have been shown where there are pipe capacity issues and these should be regarded as minimums. Unless there are constraints dictating otherwise, gradients shall generally be 1 in 60. 100mm diameter pipes shall not be laid flatter than 1 in 60, 150mm diameter pipes shall not be laid flatter than 1 in 150.
 - All pipes, chambers and fittings to be installed strictly in accordance with the manufacturers instructions.
 - Pipes which run adjacent to buildings shall be installed in strict accordance with Part H, Clauses 2.23 to 2.25 and Diagram 8.
 - All private manholes, inspection chambers and drainage channels to comply with BS EN124. Cover strengths to be:
Class D400 in heavy trafficked areas (access roads, service yards etc.)
Class C250 in lightly trafficked areas (car parks, driveways etc.)
Class B125 in Non trafficked areas
Class A15 in landscaping areas
 - All drains in the vicinity of existing or proposed trees to be constructed in accordance with the requirements of NHC Practice Note 3.
 - Private drainage frames must be tied to manhole risers by use of manufacturers ties (e.g. Polypipe ref. FRK500 fixing kit and FRK501 black ties.) The ground works contractor will be held fully responsible for any accidents due to incorrect fitting or failure to use the correct manufacturers fixing equipment.
 - All existing land drains encountered on site during construction to be re-connected.
 - Should any departure from the slab level be considered, agreement shall be sought from the Engineer immediately and prior to commencement or continuation of any works, and should take full account of all restrictions to the slab level.
 - Garage slabs relate to the finished level of the concrete at the front entrance of the garage.
 - Where a drive slopes towards a garage there is to be a 75mm ramp up to the garage slab.
 - Maximum gradients of gardens to be 1 in 6 (unless stated otherwise), except for designed banking works.
 - All dimensions in metres unless otherwise stated.
 - As underlying ground conditions may be variable across the site the Contractor shall undertake onsite porosity tests at the location and depth of each soakaway. Tests should be undertaken in accordance with BRE365 and results forwarded to the Engineers to allow verification of design.
 - All existing services, sewers and drains indicated on this drawing and any other related drawings are shown only indicatively, and shall have their positions and level confirmed on site by the Contractor prior to commencement of any construction work. The results of the investigations shall be confirmed to MTC Engineering. (Cambridge) Ltd so that the design can be verified.



PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION/REASON FOR ISSUE	APPR

MTC ENGINEERING
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PROJECT
36 Leeway Avenue
Great shelford

TITLE
Proposed Drainage Plan

ORIG	JTC	DATE	12.04.2023
CHKD		SCALE	1:100 @ A1
APPR		DRAWING NO	3093-02
		REV	-

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SOAKAWAY	AT-01
Lowest Cover Level (m)	20.100
Level top of Cells (m)	19.47
Base level of Cells (m)	18.67
Pipe invert (m)	19.376
Contributing area (m2)	45
Dimension on Plan (m)	2.0x2.0x0.8(d)
Cell Thickness (m)	0.8
Void Space (%)	95
Maximum Storage Volume (m3)	3.04

SOAKAWAY	AT-02
Lowest Cover Level (m)	20.100
Level top of Cells (m)	19.600
Base level of Cells (m)	18.200
Pipe invert (m)	19.500
Contributing area (m2)	45
Dimension on Plan (m)	3.0x1.0x0.8(d)
Cell Thickness (m)	0.8
Void Space (%)	95
Maximum Storage Volume (m3)	2.28

SOAKAWAY	AT-03
Lowest Cover Level (m)	20.100
Level top of Cells (m)	19.343
Base level of Cells (m)	18.543
Pipe invert (m)	19.243
Contributing area (m2)	90
Dimension on Plan (m)	3.5x2.0x0.8(d)
Cell Thickness (m)	0.8
Void Space (%)	95
Maximum Storage Volume (m3)	5.32

SOAKAWAY PROTECTION:
Please ensure that during the construction phase all soakaways, gullies and gully laterals are protected from the ingress of silt or grit from the site. Placing a fine heavy duty geotextile under the gully grating, between it and the frame should suffice.

NOTE:
At the location of the proposed lateral connection the contractor shall establish the position and depth of any existing services to prevent any clash in level and abortive costs.