

Anglian Water Notes

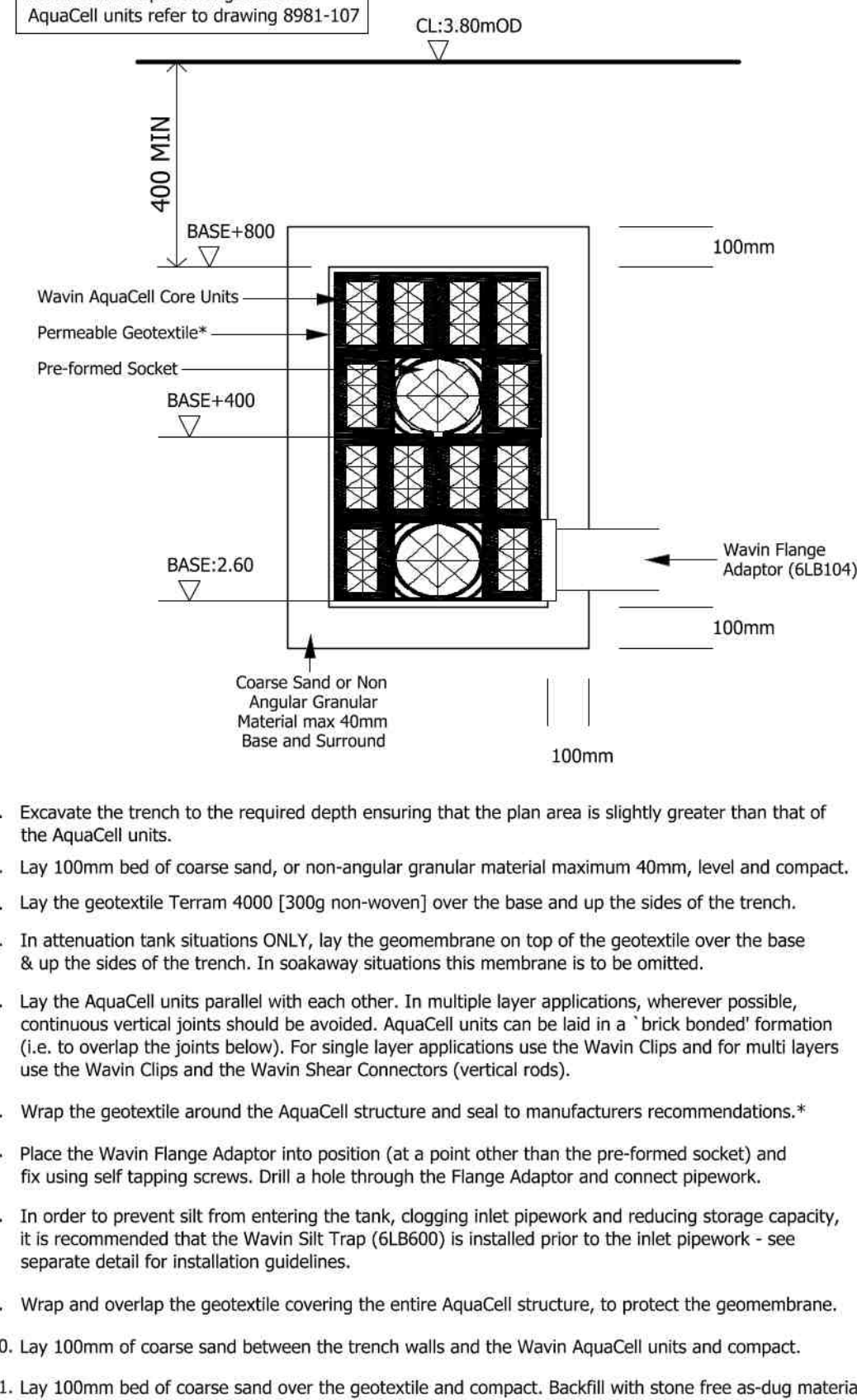
All S.104 adoptable drainage shall conform to the design and construction guide for developers, Sewers for Adoption 6th Edition published by WRc plc and any AWSL additions & deletions current at the time of execution.

All covers and frames on adoptable AW sewers are to be D400, kitemarked and be badged 'FW' or 'SW' accordingly. Suppliers shall be Stanton, Paul Savage, Norinco or Wrekin.

Adoptable pipework shall be to the following specification:

Clayware: BS EN 295-1:1991
150 dia. Crushing Strength 34kN/m²
225 dia. Class 160

Concrete: BS EN 5911-1:2002
>300 dia. Class 120



1. Excavate the trench to the required depth ensuring that the plan area is slightly greater than that of the AquaCell units.
2. Lay 100mm bed of coarse sand, or non-angular granular material maximum 40mm, level and compact.
3. Lay the geotextile Terram 4000 [300g non-woven] over the base and up the sides of the trench.
4. In attenuation tank situations ONLY, lay the geomembrane on top of the geotextile over the base & up the sides of the trench. In soakaway situations this membrane is to be omitted.
5. Lay the AquaCell units parallel with each other. In multiple layer applications, wherever possible, continuous vertical joints should be avoided. AquaCell layers can be laid in a 'brick bonded' formation (i.e. to overlap the joints below). For single layer applications use the Wavin Clips and for multilayer lay use the Wavin Clips and the Wavin Shear Connectors (vertical rods).
6. Wrap the geotextile around the AquaCell structure and seal to manufacturers recommendations.*
7. Place the Wavin Flange Adapter into position (at a point other than the pre-formed socket) and fix using self tapping screws. Drill a hole through the Flange Adapter and connect pipework.
8. In order to prevent silt from entering the tank, clogging inlet pipework and reducing storage capacity, it is recommended that the Wavin Silt Trap (SLB600) is installed prior to the inlet pipework - see separate detail for installation guidelines.
9. Wrap and overlap the geotextile covering the entire AquaCell structure, to protect the geomembrane.
10. Lay 100mm of coarse sand between the trench walls and the Wavin AquaCell units and compact.
11. Lay 100mm bed of coarse sand over the geotextile and compact. Backfill with stone free as-dug material.

NB: A storage tank must be vented, and it is recommended that one vent pipe, 110mm in diameter is provided per 7,500 square metres of impermeable catchment area on a site, see page 8 for design.

* For large scale, deep installations a 1mm thick geomembrane is recommended and joints should be sealed using proprietary techniques. However, for shallow, domestic installations it may be suitable to use a geomembrane with taped joints.

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Job Title	
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Land Off Quadring Road,
Donington,
Spalding,
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Drawing Title
Construction Details
Manhole Details
Sheet 3

Date FEB 2020	Scale @ A1 NTS	Drawn LCM
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Drg.No. 8981 -303

Rev

NOTES:

BACKDROPS ARE TO BE DESIGNED OUT OF ADOPTABLE SEWERAGE SYSTEMS WHERE POSSIBLE. STEEP GRADIENTS ARE PREFERRED TO BACKDROPS PROVIDING THE GRADIENT IS NO STEEPER THAN 1 IN 10.

IF A BACKDROP IS UNAVOIDABLE THE EXTERNAL RAMPED BACKDROP IS PREFERRED TO THE EXTERNAL VERTICAL BACKDROP.

Drawing based on AWSL Standard Adoptable Sewerage Details drawing DS/SFA/001 rev B



SEL Environmental Ltd,
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Product Code: SUDS02005
Description: Controflow 500 Series Universal
Level Invert
Status: For Approval

2200359 / SUDS	-	19/03/20
SEL Reference	Revision	Date
Client Drawing No: 456_7620_1061-C03_ Ground Floor Drainage.pdf		

Minimum 100mm thick coarse sand or Class 6H selected granular material (100% passing 5mm sieve).

Position of vents to be agreed on site.