

Impermeable membrane surround laid over base, sides and top of system. All edges to be sealed and all points where pipes enter/exit the system to be sealed to provide a watertight structure. Penetrations through membrane sealed using fully welded Top Hat unit.

100mm coarse sand bed and surround to sealed structure

Wavin Aquacell Storage Tank or similar. Constructed using 1m long x 0.5m wide x 0.4m deep units. Refer to Layout for dimensions and levels

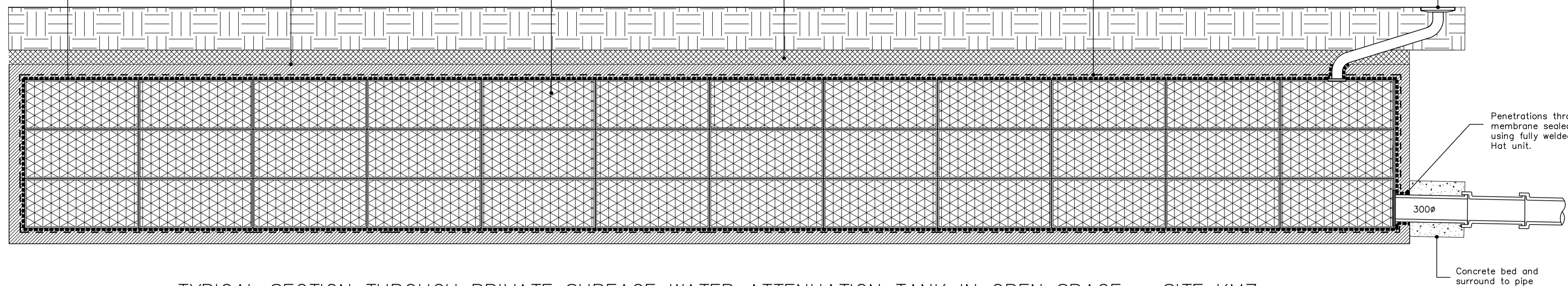
6F2 Capping material

300gm Geotextile protection layer (non woven, needle pierced geotextile)

1000 graded vent pipe

600 min cover to top of structure

1200 depth of structure



TYPICAL SECTION THROUGH PRIVATE SURFACE WATER ATTENUATION TANK IN OPEN SPACE – SITE KM7

Permeable membrane surround laid over base, sides and top of system. All edges to be sealed and all points where pipes enter/exit the system to be sealed. Penetrations through membrane sealed using fully welded Top Hat unit.

100mm coarse sand bed and surround to structure

Wavin Aquacell Storage Tank or similar. Constructed using 1m long x 0.5m wide x 0.4m deep units. Refer to Layout for dimensions and levels

6F2 Capping material

300gm Geotextile protection layer (non woven, needle pierced geotextile)

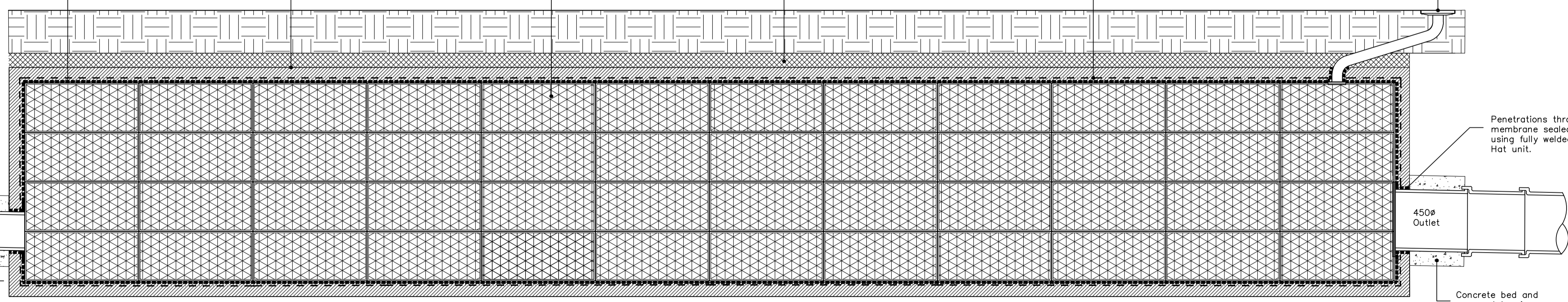
1000 graded vent pipe

600 min cover to top of structure

1600 depth of structure

300Ø Inlet

Concrete bed and surround to pipe



TYPICAL SECTION THROUGH PRIVATE SURFACE WATER ATTENUATION TANK/SOAKAWAY IN OPEN SPACE – SITE KM9

**INSTALLATION NOTES**

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, level and compact.
3. Lay the membrane and geotextile over the base and up the sides of the trench.
4. Lay the AquaCell Units parallel with each other. In multiple layer applications, wherever possible, continuous vertical joints should be avoided. AquaCell units should be laid in a brick bonded formation (i.e. to overlap the joints below).
5. Fix the Wavin Adaptors to the AquaCell Units as required and connect pipework.
6. Wrap and overlap the membrane and geotextile covering the entire AquaCell structure.
7. Lay 100mm of coarse sand or non angular granular material between the trench walls and the AquaCell structure and compact.
8. Lay 100mm of coarse sand or non angular granular material over the geotextile and compact. Backfill with stone free as-dug material.

**NOTES**

1. Tree root protection (Terram Root Guard or similar) to be provided to vertical faces adjacent to trees
2. A minimum of 900mm cover to be provided to the structure at all times when overrun by construction traffic.

'AquaCell' supplied by:

Wavin Plastics Limited  
Parsonage Way  
Chippenham  
Wiltshire SN15 5PN  
United Kingdom  
Tel: 01249 766 600  
Fax: 01249 443 286  
website: www.co-uk.wavin.com

Installation in accordance with manufacturers guidelines.

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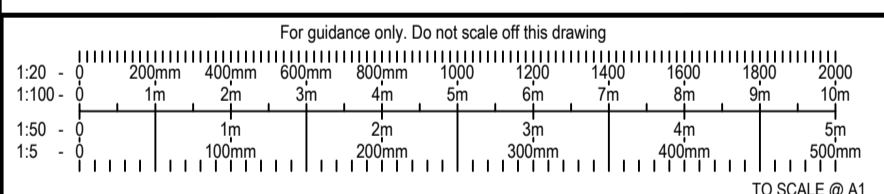
The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work starts. The Contractor is to comply in all respects with current Building Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against all relevant Engineers and Architects drawings and all other specialist documentation provided.

This drawing is not intended to show details of ground conditions or ground contaminants. Each area of ground relied upon to support any structure depicted (including drainage) must be investigated by the Contractor. Any suspect or fluid ground, contaminants on or within the ground, should be further investigated by a suitable expert.  
Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation including ground conditions, contaminants, drainage, design & planning density regulations. Sketch proposals may be based upon enlargements of OS sheets & visual estimations of existing site features, accuracy will therefore need to be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.  
Do not scale. Work to given dimensions only.

**Notes:**

A 1507/13 FIRST ISSUE TD KMc

| Rev | Date | Amendment | Drawn | Check |
|-----|------|-----------|-------|-------|
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Project: **KINGSMERE BICESTER**  
Title: **SURFACE WATER ATTENUATION TANK**

Status: **PRELIMINARY** Checked: **KMc**  
Drawn: **TD** Date: **15/07/13** Scale: **NTS @ A1**

Job No: **JKK6647** Drg No: **106** Rev: **A**

Architects Engineers Surveyors  
Landscape Architects Services Consultants