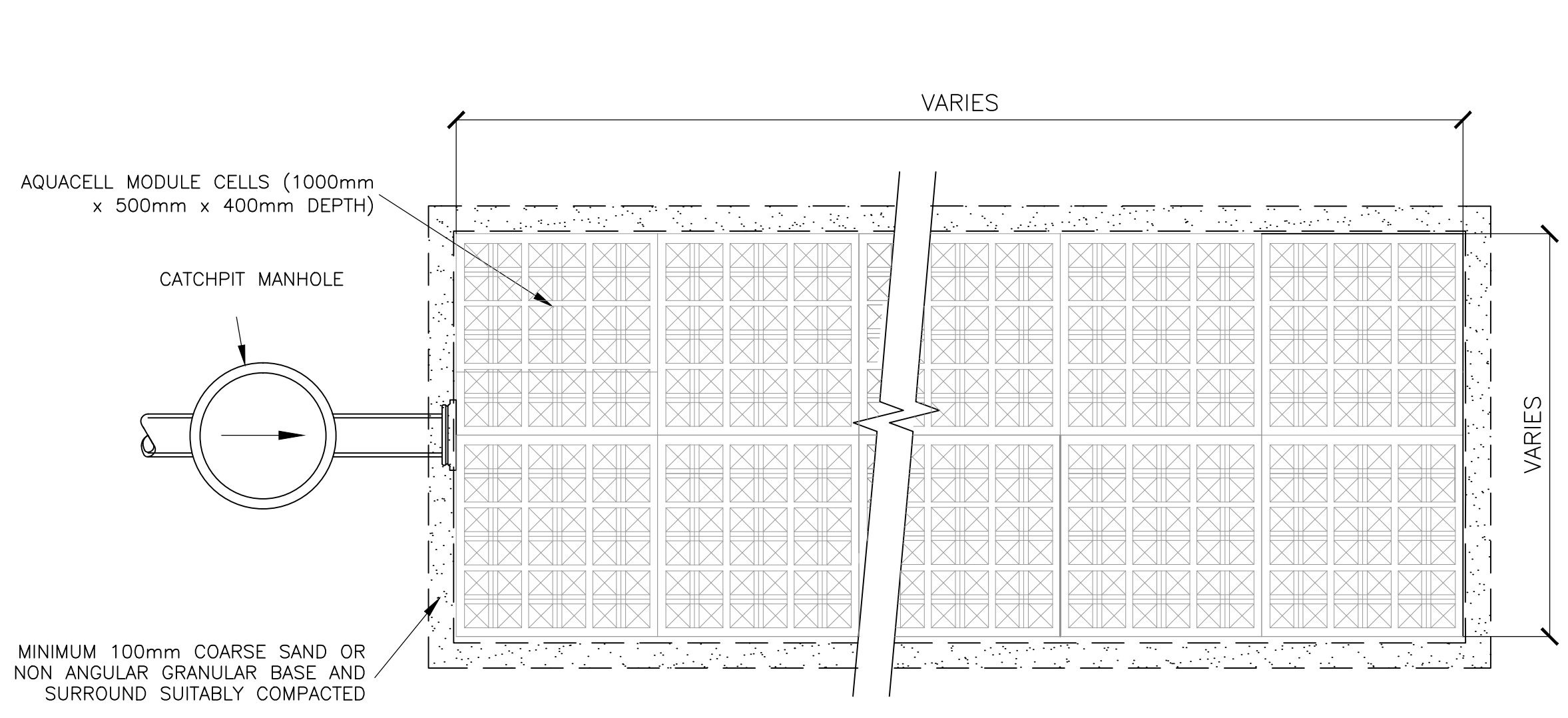
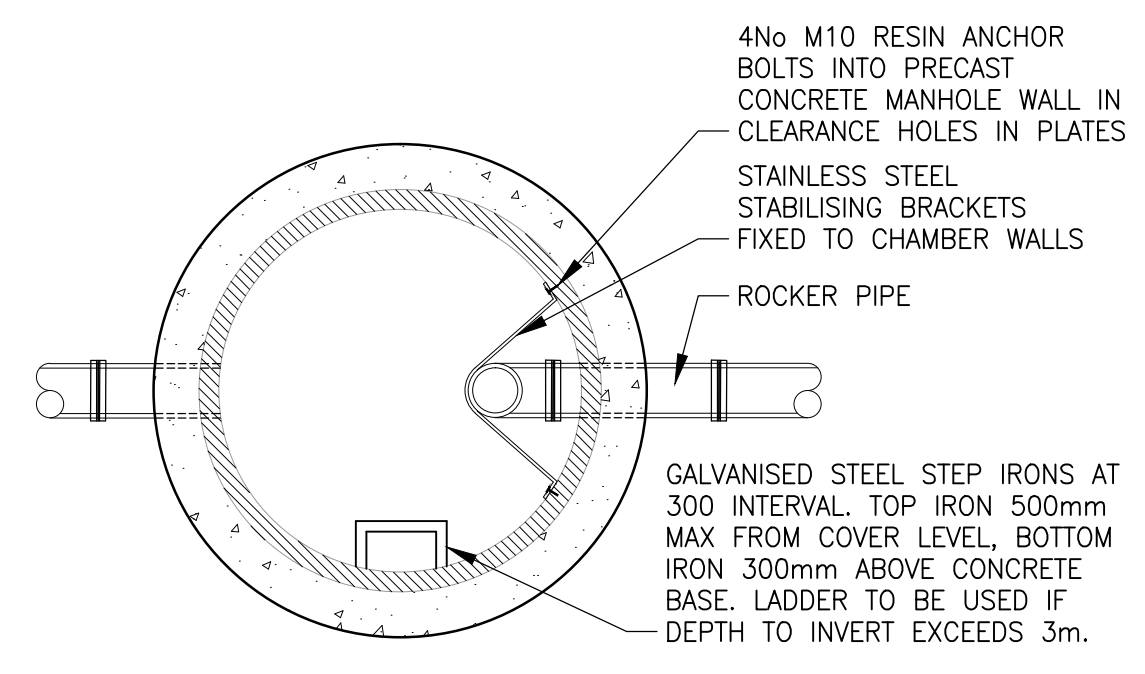


**GENERAL NOTES**  
 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTS, SPECIALISTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER IMMEDIATELY.  
 2. REFER TO RLT PRIVATE DRAINAGE LAYOUT DRAWING 1509/03/01-02 FOR LOCATION, SIZES & LEVELS OF AQUACELL UNITS.

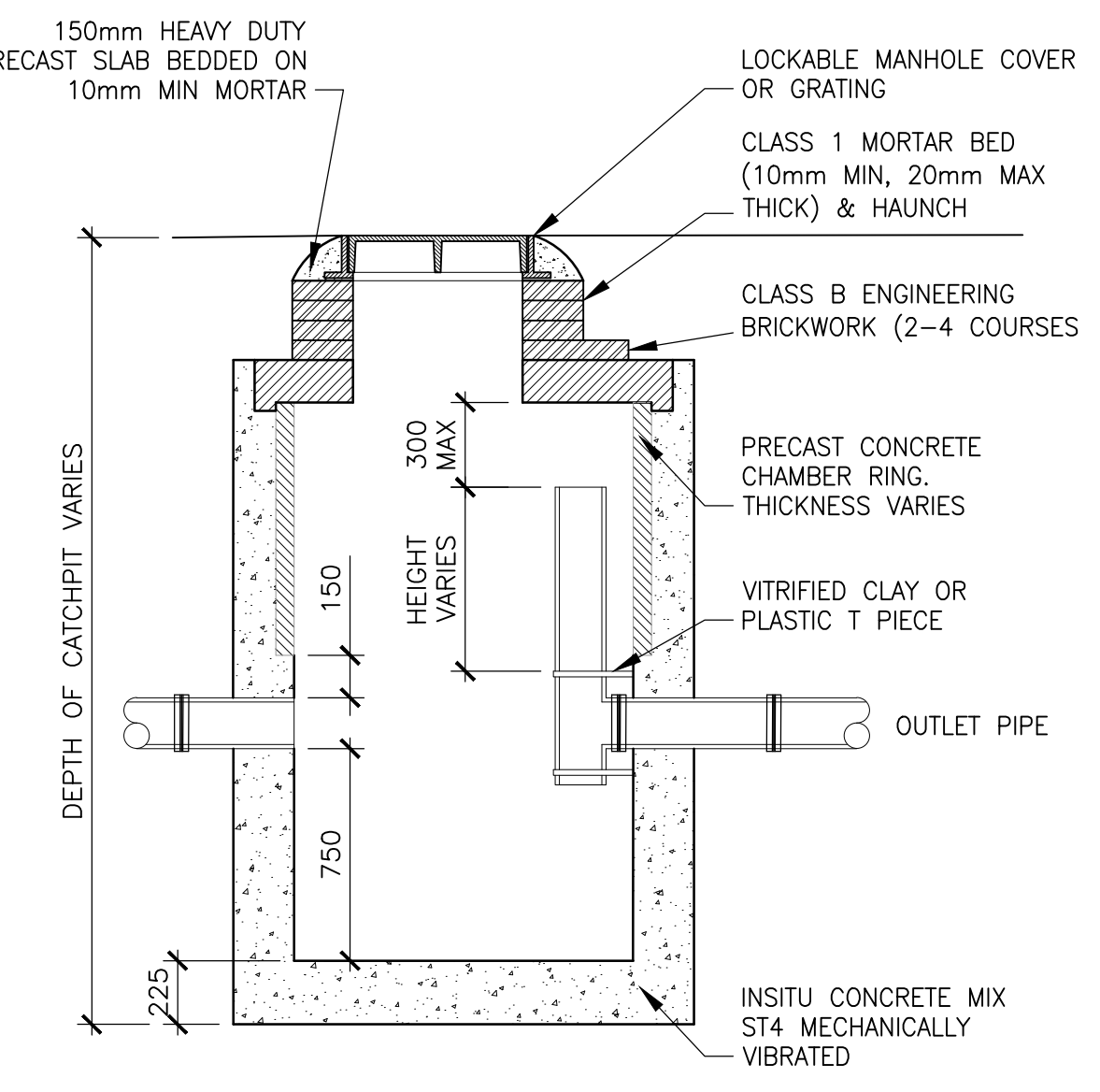
**NOTE**  
 IMPERMEABLE MEMBRANE SHOWN WRAPPED AROUND THE AQUACELL UNITS AS THE TANK MUST BE KEPT SEPARATE FROM THE SURROUNDING GROUNDWATER.  
 THE GROUNDWATER WILL FLOW UP TO APPROXIMATELY 1.0M SURROUNDING THE SIDES OF THE TANK. IN THE PERMANENT STATE THE WEIGHT OF 1.8M DEPTH OF OVERLYING SOIL ON THE TANK WILL BE SUFFICIENT IN PREVENTING ANY BUOYANCY OF THE TANK.  
 IN THE TEMPORARY STATE WHEN THE CELLS ARE EMPTY DURING CONSTRUCTION 0.525M BULK OF SANDS & GRAVEL MUST BE LAID OVER THE CELLS TO PREVENT ANY POTENTIAL BUOYANCY.



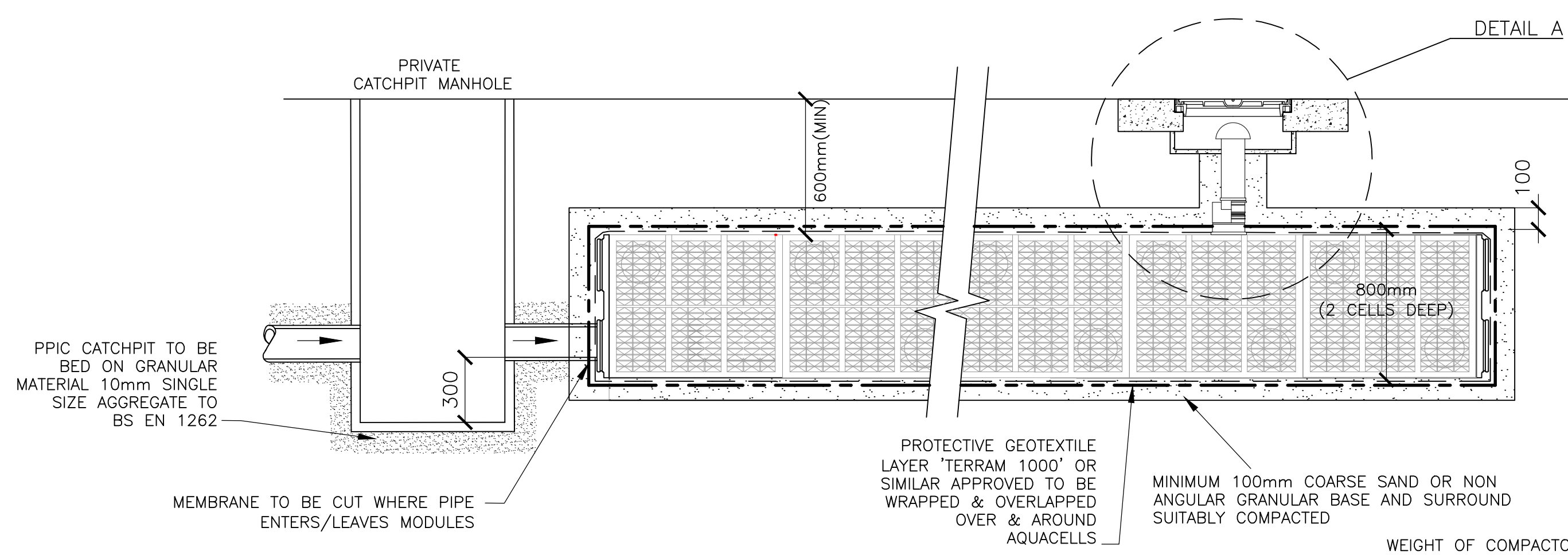
**AQUACELL STORAGE SYSTEM PLAN**



**CATCHPIT NOTES:**  
 1. ALL DIMENSIONS IN MILLIMETRES.  
 2. MANHOLE COVER & FRAME SHALL BE TO BS EN:124 GRADE D400.  
 3. HEAVY DUTY PRECAST COVER SLAB PLACED WITH OPENING AWAY FROM TRAFFIC WHEREVER POSSIBLE.  
 4. WHERE CATCHPITS ARE CONSTRUCTED IN THE CARRIAGEWAY THE TOP OF SLAB WILL BE AT FORMATION LEVEL & THE DEPTH BETWEEN THE SLAB & FRAME WILL BE CONSTRUCTED IN ENGINEERING BRICKWORK. ELSEWHERE UP TO 3 COURSES MAY BE USED.  
 5. TAPER & SHAFT RINGS MAY BE USED PROVIDED BOTTOM OF TAPER IS A MINIMUM OF 1.8m ABOVE CONCRETE BASE.  
 6. NUMBER OF PIPE OPENINGS AS DETAILED.  
 7. ALL CARRIER PIPES SHALL HAVE THE SAME SOFFIT LEVEL UNLESS DETAILED OTHERWISE.  
 8. A MINIMUM CLEAR OPENING IN COVER TO BE: RECTANGULAR - 700mm ACROSS THE DIAGONAL, CIRCULAR - 700mm DIAMETER, TRIANGULAR - 700mm.

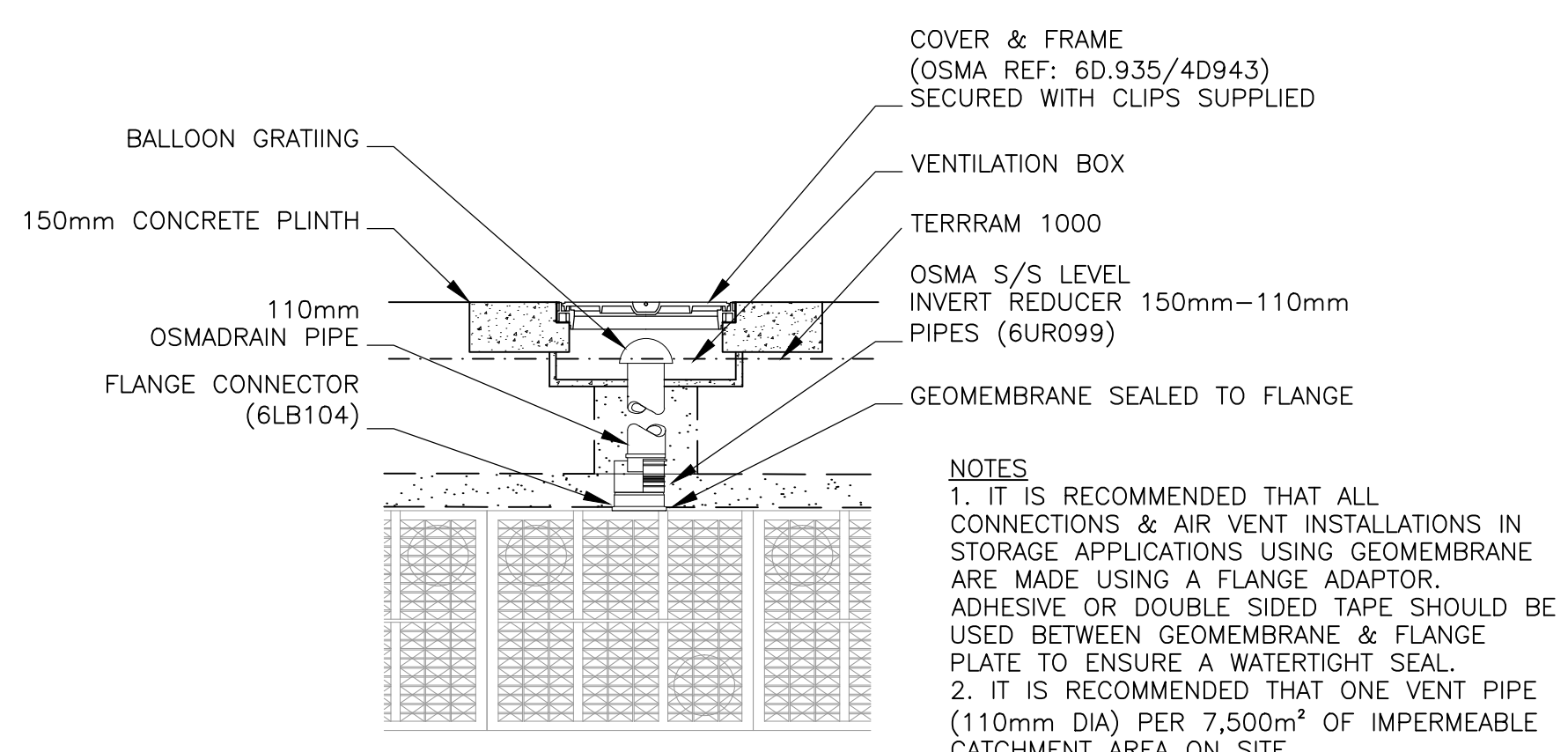


**MANHOLE CATCHPIT FOR MAIN TANKS HSK1 & HSK2 ONLY**  
 (Scale 1:25)



**AQUACELL STORAGE SYSTEM**

**NOTE**  
 THE COLLECTION SUMP SHOULD NOT BE ALLOWED TO OVERFILL AS THIS WILL LEAD TO SILT CARRY-OVER INTO THE AQUACELL MODULES.  
 THE FREQUENCY AT WHICH THE CATCHPIT SHOULD BE EMPTIED WILL NEED TO BE DETERMINED ON SITE. IT WILL GENERALLY ONLY BE NECESSARY TO ENSURE THE CATCHPIT/SILT TRAP ARE FREE FROM DEBRIS SUCH AS LEAVES OR SEDIMENT. IT IS RECOMMENDED THAT THE SYSTEM BE INSPECTED NO LESS FREQUENTLY THAN AT MONTHLY INTERVALS FOR THE FIRST 3 MONTHS AND THEREAFTER AT 6 MONTH INTERVALS. INDIVIDUAL MAINTENANCE SCHEDULES SHOULD BE DRAWN UP USING THE INFORMATION OBTAINED FROM THE INITIAL INSPECTIONS. IT SHOULD ALSO BE NOTED THAT MORE REGULAR INSPECTIONS MAY BE REQUIRED SHOULD THE CATCHPIT FILL MORE FREQUENTLY AND/OR IF THE INITIAL INSPECTIONS REVEAL THAT MAINTENANCE/CLEANING WILL BE REQUIRED MORE REGULARLY THAN AT SIX MONTH INTERVALS.  
 FLUSHING OF THE SYSTEM CAN BE ACHIEVED USING A JETTING SYSTEM WITH A 150 BAR PUMP PRESSURE (IE APPROXIMATELY 80 BAR AT THE NOZZLE) AT A DISCHARGE FLOW OF 300 L/MIN. THE SILT SHOULD BE FLUSHED TO THE AQUACELL CATCHPIT MANHOLE AND REMOVED FROM THERE.



**DETAIL A AQUACELL AIR VENT**  
 SCALE 1:20

**NOTES**  
 1. IT IS RECOMMENDED THAT ALL CONNECTIONS & AIR VENT INSTALLATIONS IN STORAGE APPLICATIONS USING GEOMEMBRANE ARE MADE USING A FLANGE ADAPTOR. ADHESIVE OR DOUBLE SIDED TAPE SHOULD BE USED BETWEEN GEOMEMBRANE & FLANGE PLATE TO ENSURE A WATERTIGHT SEAL.  
 2. IT IS RECOMMENDED THAT ONE VENT PIPE (110mm DIA) PER 7,500m<sup>2</sup> OF IMPERMEABLE CATCHMENT AREA ON SITE.

**TENDER ISSUE**

LATEST REVISIONS ARE 'TAGGED' WITH THIS INDICATOR. HOWEVER, ALL USERS OF THIS DRAWING MUST SATISFY THEMSELVES OF ALL REVISIONS TO ANY PREVIOUS ISSUES. BY COMPARISON OF THIS DRAWING AGAINST OTHER ISSUES, AS IT CANNOT BE GUARANTEED THAT EVERY ITEM OF REVISION HAS BEEN 'TAGGED'.

Rev	Date	Description	Drawn	Checked
05.02.16		FIRST ISSUE	DM	SC

**LATCHMERE HOUSE**

**AQUACELL DETAILS**

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