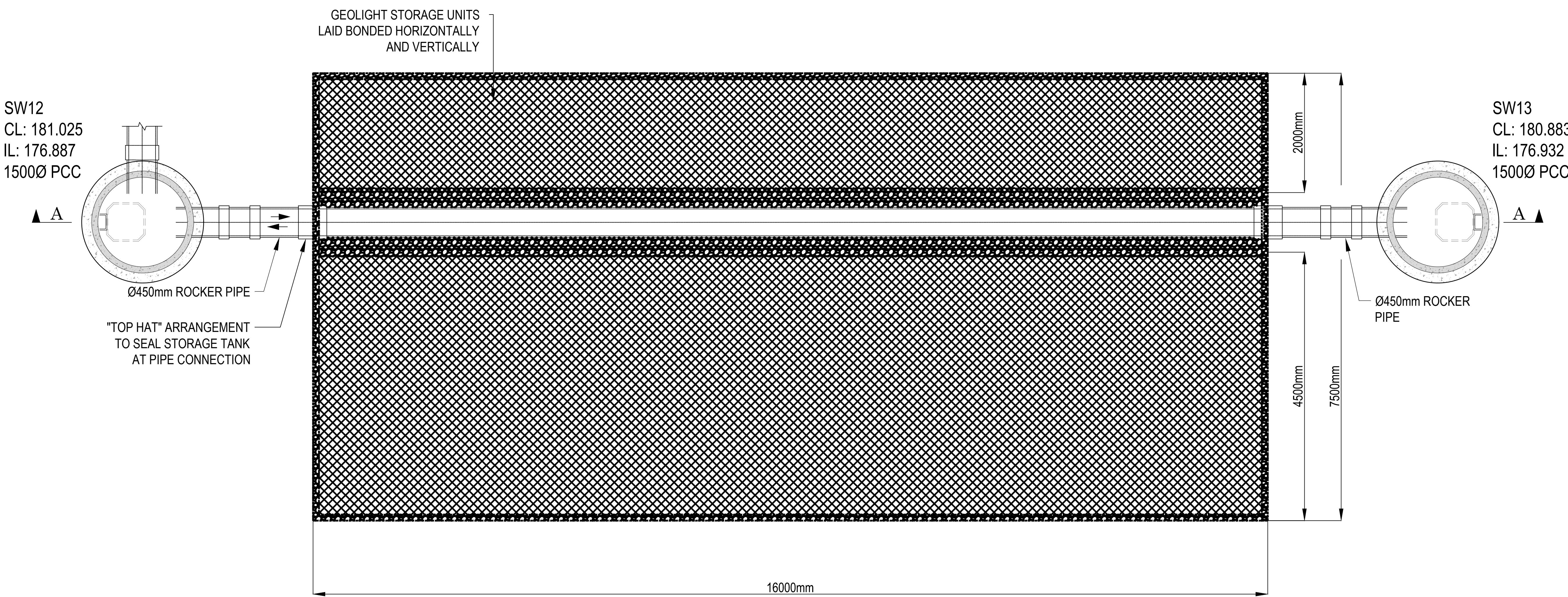
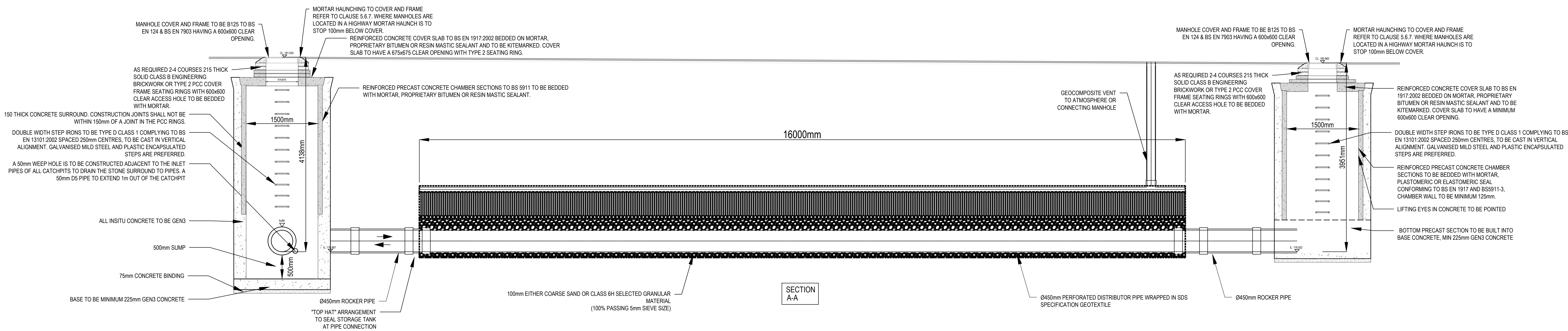




YORKSHIRE WATER STANDARD NOTES

All adoptable sewer works and material to be in accordance with Sewerage Sector Guidance Design and Construction Guidance (Code for Adoption). The Relevant British/European and Yorkshire Water Standards/Requirements/Standards to the Mechanical and Electrical Specification and Kitemarked.

Manhole covers shall have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.

Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.

Yorkshire Water is **not** obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or **indirectly**). An alternative method of disposal of the land drainage run-off will however be required and you will have to liaise with the Local Authority, Land Drainage Section regarding the disposal of the filter drain/land drainage run-off.

The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.

Sewers must have 5m clearance from trees and hedges or the width of the canopy at natural height.

Sewers to be laid in Class "D" Bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 100mm in non-highway access areas) then a concrete slab should be provided above granular bed and surround.

Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).

Yorkshire Water policy is that Type "C" Jack manholes and 1500mm diameter manhole tops are not preferred. Instead, it is preferred that you use a top "B" manhole with 1200mm diameter or 1500mm diameter rings, with the opening slid over the channel where depth of cover to pipe outlet is 1.5m.

Adoptable plastic sewer pipes to be BS1 Kitemarked (certified to WIS 4-35-01 and BS EN 13476). Adoptable plastic cover pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would require day ware channels in manholes.

The minimum crushing strength for clay pipes should be as follows: 1000mm dia. 40kN/m, 1500mm dia. 40kN/m, 2250mm dia. 40kN/m and 3000mm dia. 70kN/m. The minimum crushing strength for concrete pipes should be: Class 120 to EN 1916/BS5911-1:2002. Plastic pipes should conform to WIS 4-35-01 and BS EN 13476.

Where a B125 cover and frame has been approved, this **must not** be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Sewer cover covers are not acceptable.

There must be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm. If crossover is near the rock then the clearance may need to be increased.

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