

Silver Hill Manor, off Broad Lane, Rochdale

Drainage Management Plan

Document Reference: H7491-DWH-XX-XX-DR-FM-216100-P01-Drainage Management Plan

Surface Water Storage Tanks – Technical Summary

The proposed cellular storage tanks are designed to operate during storm events exceeding the 1-in-30-year return period, up to and including the 1-in-100-year event plus a 40% allowance for climate change. It should be noted that the tanks are not intended to function during standard rainfall conditions up to the 1-in-30-year storm, as these flows are accommodated within the adoptable drainage system.

The storage system comprises a total of 394 cellular units, arranged with 192 units positioned on either side of a central 300 mm diameter perforated distributor pipe. The pipe is surrounded by 40 mm single-size cobbles/granular fill, and the entire assembly is enclosed within an impermeable waterproof membrane, with a protective non-woven geotextile layer. Venting is provided at the end of the tank system. Full construction details are shown on Drawing H7491-300140 Rev 02.

Maintenance of Below-Ground Storage Tanks

During the construction phase, maintenance of the tanks will be undertaken by the developer. Upon completion, responsibility will transfer to the appointed Management Company, who will retain maintenance duties for the lifetime of the development.

The following maintenance regime will apply once the tanks become operational:

- **Air Vents**
Inspect every six months and remove any debris accumulation as part of routine POS maintenance.
- **Private Manholes**
Inspect annually, and following any storm events considered unusually large, to monitor potential silt deposition. Jetting of the system may be undertaken via the upstream 600 mm diameter Wavin inspection chamber to remove silt and debris.

All relevant manhole locations are detailed on Drawing H7491-300140 Rev 02.

Maintenance of Adoptable Drainage

During construction, adoptable drainage infrastructure will continue to be maintained by the developer. This includes routine inspection of manholes to check for blockages and silt build-up, followed by cleaning as required. CCTV surveys may also be undertaken to assess pipe conditions in locations not visible from manholes.

Following completion of the development and all required inspections, the adoptable elements of the drainage system will be transferred to United Utilities, who will assume responsibility for ongoing statutory maintenance thereafter.