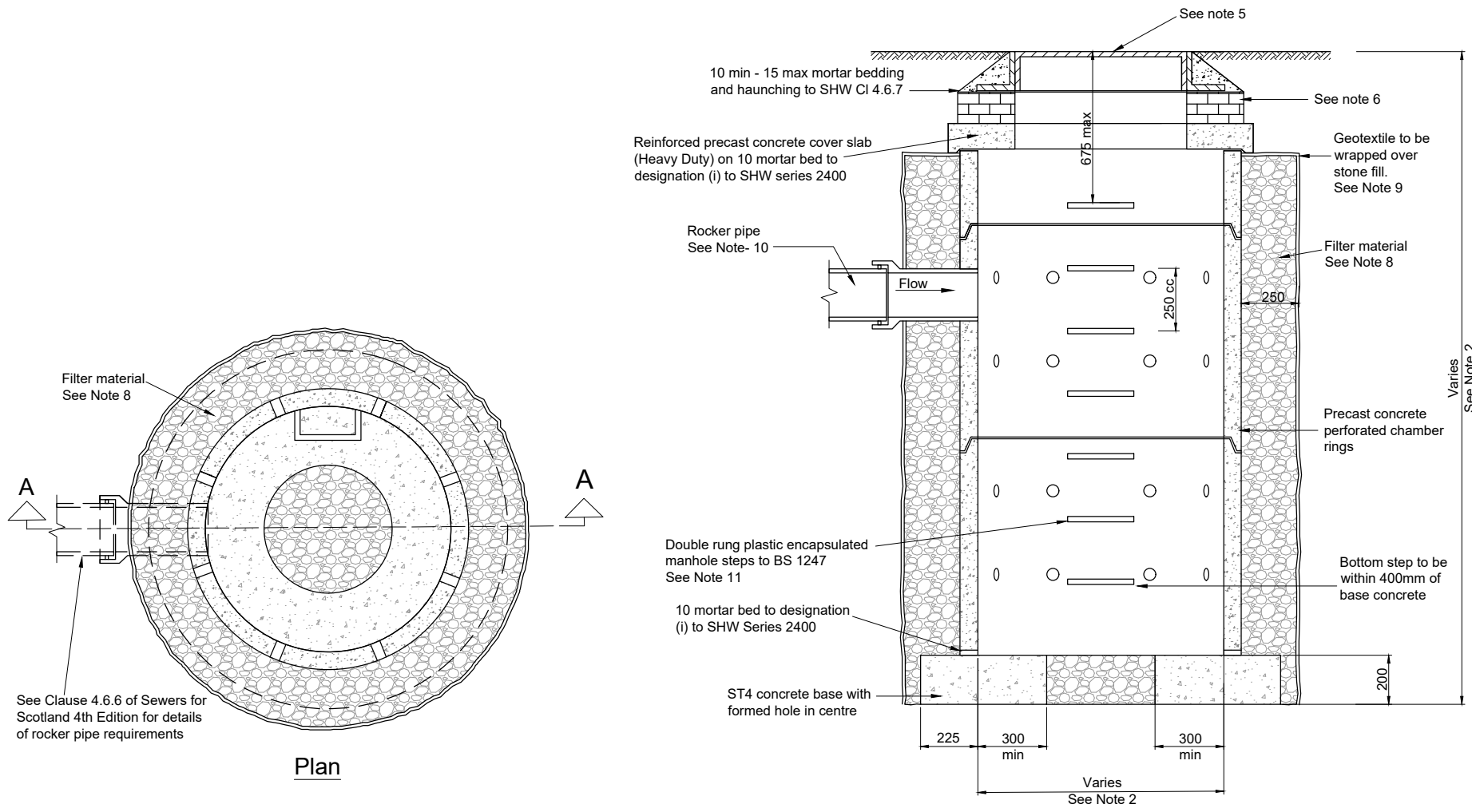


- Notes**
1. All dimensions are in millimetres unless otherwise stated.
 2. *Design Manual for Roads and Bridges CD 530: Design of soakaways* applies except where modified by this drawing. The design of the soakaway system shall be based upon site-specific conditions. No part of the soakaway may fall beneath the carriageway or footway. A minimum of 5 m shall be allowed between the soakaway and any buildings or similar structures. Internal ring diameter 900mm to 3000mm. Chambers are considered confined spaces and access must be restricted.
 3. The specification referred to in this drawing is the *Specification for Highway Works (SHW)* published by T.S.O. (The Stationery Office).
 4. Installation of Pre-cast concrete soakaways shall comply with SHW Cl 507, BS 5911-3 & BS EN 1917:2002. Soakaways shall be sited in porous and permeable ground of sufficient depth and lateral extent to be able to accommodate potential maximum discharges under design storm conditions. The depth from the base of the soakaway to the maximum groundwater level shall be a minimum of 1.0m.
 5. Class B125 cover and frame 675x675 clear opening to BS EN 124 with a protective coating to SHW Cl 507.9. Surface level/cover tolerance shall be -15 min -50 max in verges.
 6. 225 brickwork 2-3 courses. Brickwork Class B to SHW Cl 507 (including Cl. 507.3, Cl. 507.18 & Cl. 2406.3).
 7. Mortar to designation (i) SHW Series 2400 or a proprietary sealant shall be used in all joints between precast concrete units.
 8. 250mm thick Type B filter material as per MCHW Series 0500 or selected granular material in accordance with Class GH of Table 6/1 of MCHW Series 0600.
 9. Drainage geotextile membrane to prevent ingress of backfill material. Minimum overlap 300mm in accordance to SHW Cl 609 and BS EN 13251. Each side of the membrane shall be protected by a layer of non-woven geotextile. The geotextile shall sustain a tensile load of not less than 5.0kN/m at break and have a minimum failure strain of 10% when determined in accordance with BS EN ISO 10319, and have a minimum static puncture resistance of 1200N when determined in accordance with BS EN ISO 12236, in accordance to SHW Cl 514.4. The pore size distribution (090) of the geotextile shall be 100 microns. The permeability of the geotextile shall be above 30 litres/m²/sec, to the test method described in SHW Cl 514.4(v).
 10. Ends of pipes shall be neatly built into the chamber and finished flush with mortar to designation (i) SHW Series 2400. The nearest pipe joint to chamber shall not be restricted by concrete backfill. The articulated length of pipe (Rocker Pipe) to SHW Cl 507.17 shall be selected for pipe diameter either smaller or larger than 450 dia. If flexible pipes are being used, rocker pipes are not needed.
 11. Chambers more than 3m deep must be provided with galvanised ladders.
 12. Silt traps and/or petrol interceptors may be required where soakaways are used.



Plan

Section A-A

See Clause 4.6.6 of Sewers for Scotland 4th Edition for details of rocker pipe requirements

Revision Details			
Drawn by	Checked by	Date	Sufx



Project Standard details. Series 0500:
 Drainage and service ducts

Title **Pre-cast concrete soakaway**

Scale (at A4) **Not to scale**

Drawn	JC	Date	02/2024
Checked	CHK	Date	02/2024

Drawing No: SD/0500/14 Rev: 1