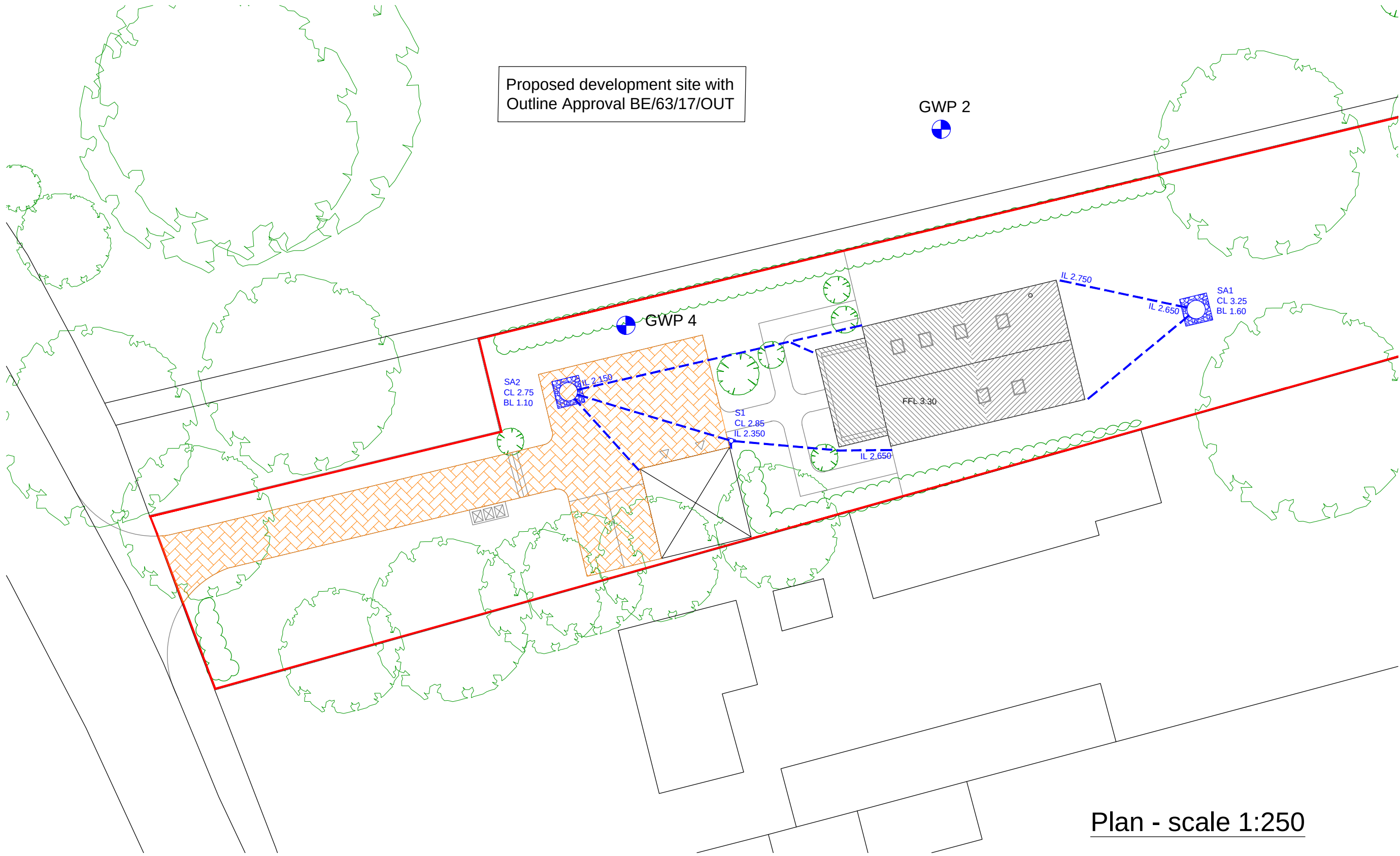
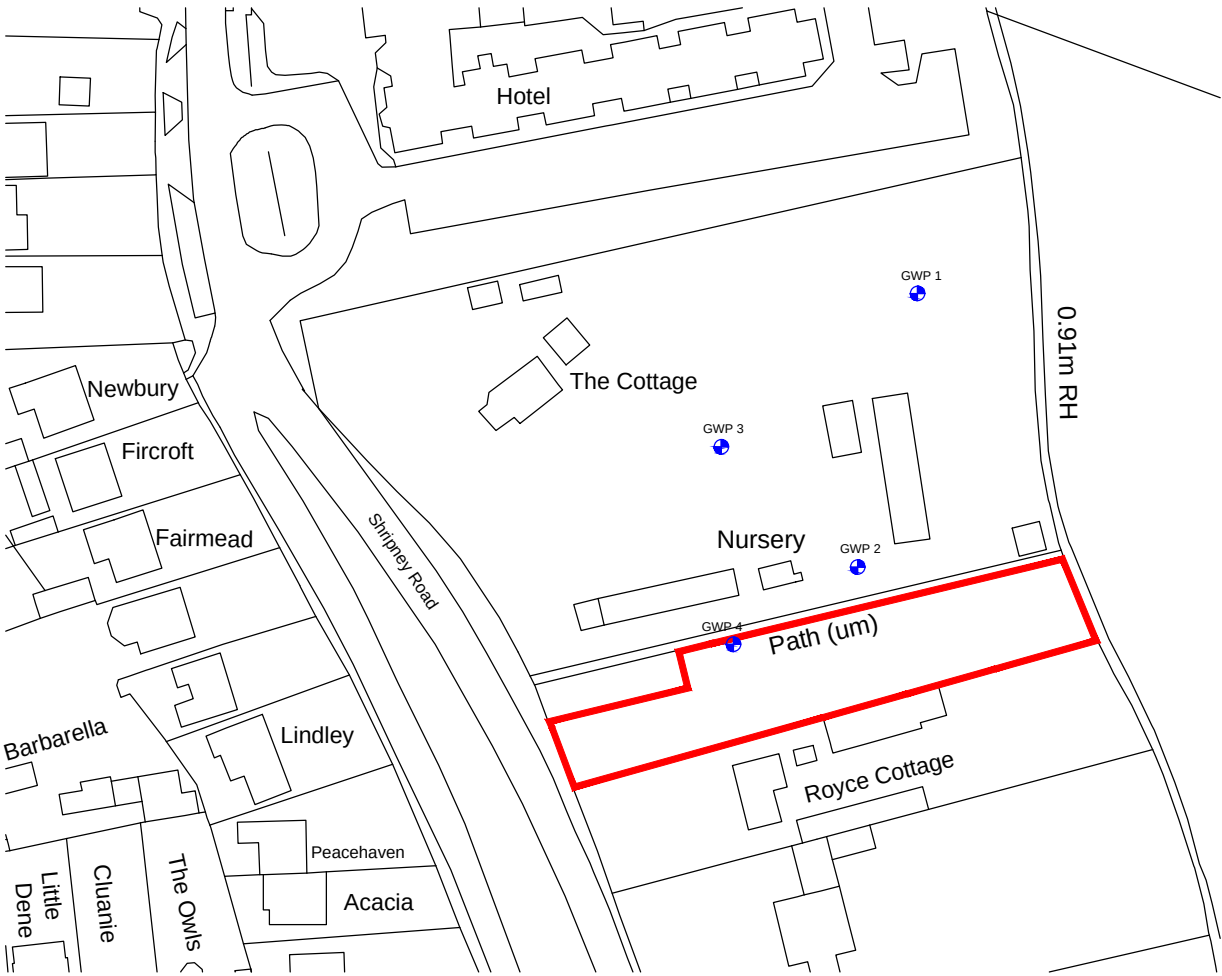




Plan - scale 1:250



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Location Plan - scale 1:2500

KEY

- Proposed storm drainage 100mm dia at min 1:100
- Proposed 1.2m dia. concrete ring soakaway 1.65m deep to base
- New roof areas to be drained to soakaway SA1
- New roof areas to be drained to soakaway SA2
- Proposed permeable surfaces
- +27.87 Existing ground levels in meters AOD
- CL ##### Cover level of surface water drains
- BL ##### Base level of soakaways
- IL ##### Invert level of surface water drains

Note: All levels are provisional and approximate only and subject to future analysis when a topographic survey is available

- GWP 2 Groundwater monitoring point
- BH 2 Percolation test point

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over River Terrace Deposits (soft to firm silty sandy clays) over Upper Chalk. The River Terrace Deposits were found at 0.25m below ground level as mottled grey-brown silty sandy clay with gravel increasing with depth. The Upper Chalk was encountered as chalk gravel at varying depths from 1 - 2.5m below ground level. Groundwater was found at just over 1m below ground level during the investigations but subsequent groundwater monitoring in four boreholes on the site from January 2018 to June 2018 provided levels ranging from a high of 0.869m below ground level in a low area near to the southwest of the site down to 1.975m in June 2018 in the slightly higher northeast corner of the main development site.

The drainage design is based on percolation tests carried out to BRE365 in two separate test holes in January 2018. Soil infiltration rates of 7.100×10^{-5} m/s and 4.399×10^{-5} m/s were obtained at shallow depth above groundwater in the River Terrace Deposits. The lower of these two results has been used in the calculations and a high factor of safety has been applied for robustness.

Permeable paving is proposed for the access road and parking areas either in concrete blocks, permeable tarmac or gravel, combined with two 1.2m dia. concrete ring soakaways, each 1.65m deep located as shown. These will collect water from roof areas, and the one to the front of the site can distribute it within the permeable paving if required.

The permeable paving will incorporate a minimum 250mm thick layer of coarse graded aggregate. 150mm cellweb or similar will be used within tree root protection areas.

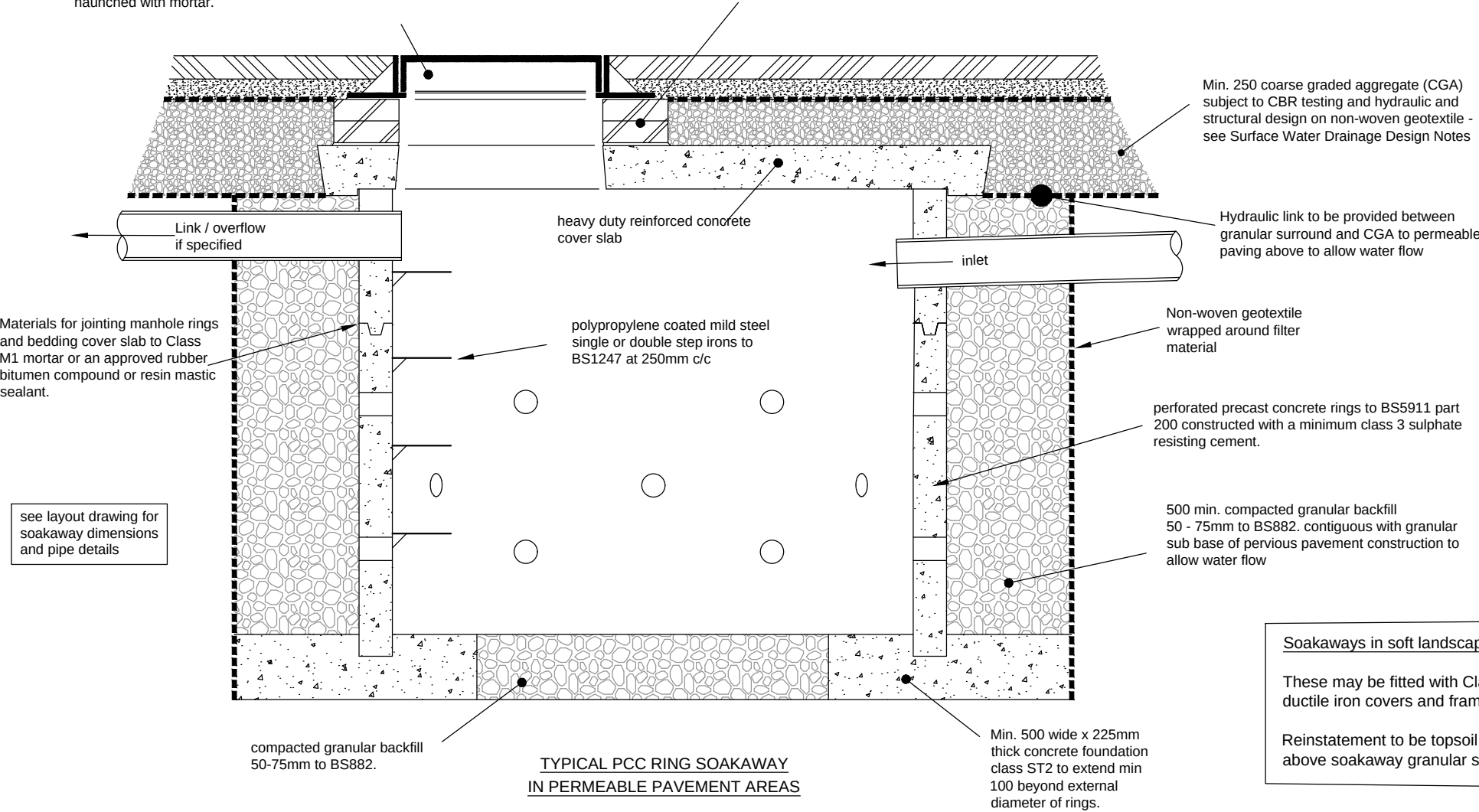
NOTE

This drawing had been produced for discharge of planning conditions only. All levels and details to be checked for Building Regulations approval and construction purposes

-	Original	PC	RTFC	14.2.19	
Rev.	Description	App.	Chk.	Drm.	Date
Client					
Castle Property Developments					
Project					
The Cottage Shripney Road					
Drawing Title					
Surface Water Drainage Layout					
Robert Clark Associates Ltd Chartered Civil Engineers Willow Cottage, Herne Lane, Rustington West Sussex BN16 3EE Tel: 01903 778945 Fax: 01903 778967					
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Scale	As shown		At original		A2
Drawing Number	1808/SK2				Revision -

Class D400 manhole covers and frames 600mmx600mm to BS EN 124 to be used in adoptable highways and private roads and car parks with class B125 elsewhere, bedded and haunched with mortar.

All brickwork to be Class B engineering to BS 3921 - 2 courses min; 4 courses max; 225mm thick



Note
Permeable paving design is for hydraulic purposes only. The structural design will depend on the loads it is required to take and the strength of the formation and is to be carried out by others

Soakaways in soft landscaped areas
These may be fitted with Class A15 ductile iron covers and frames.
Reinstatement to be topsoil and turf above soakaway granular surround

