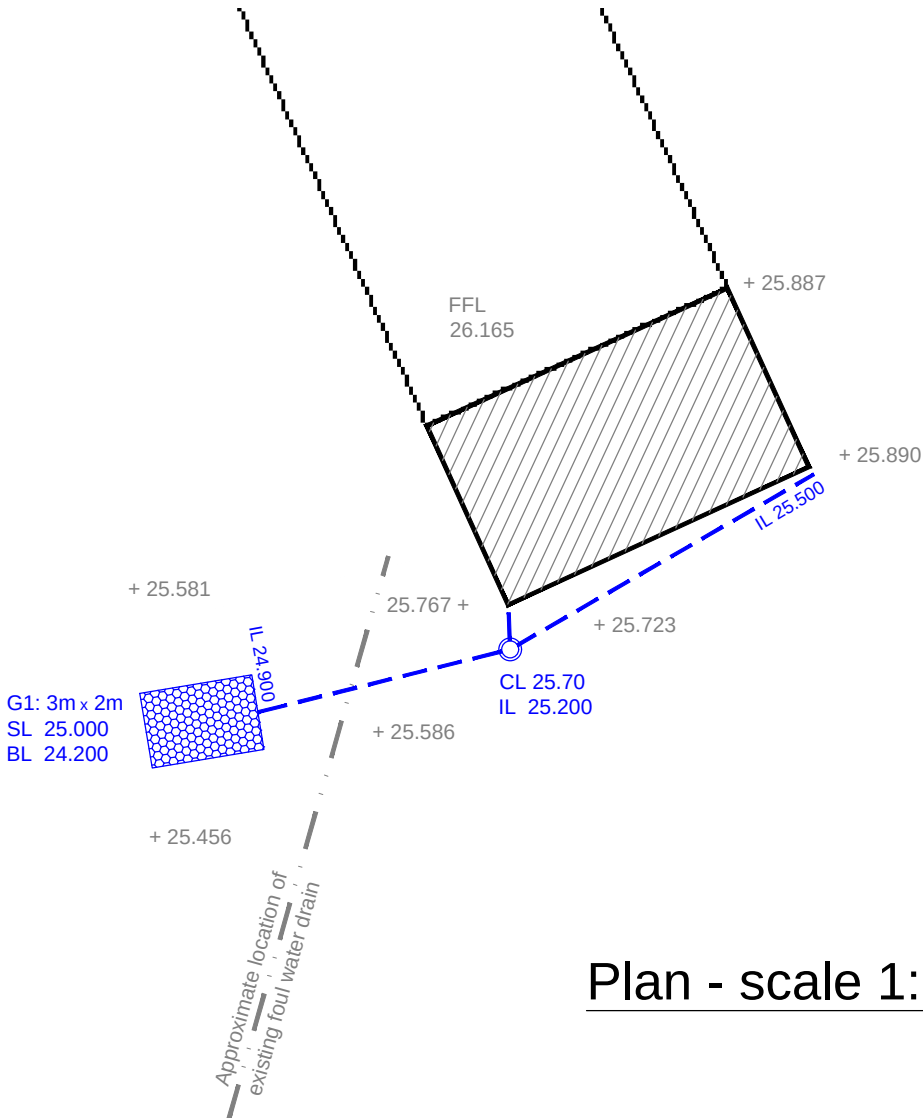
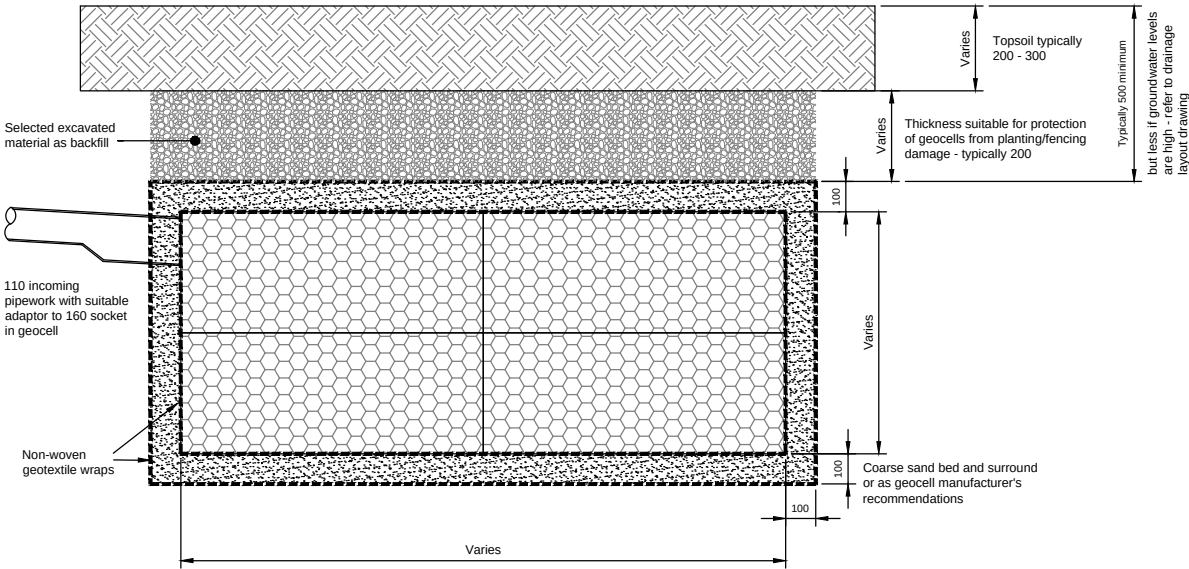


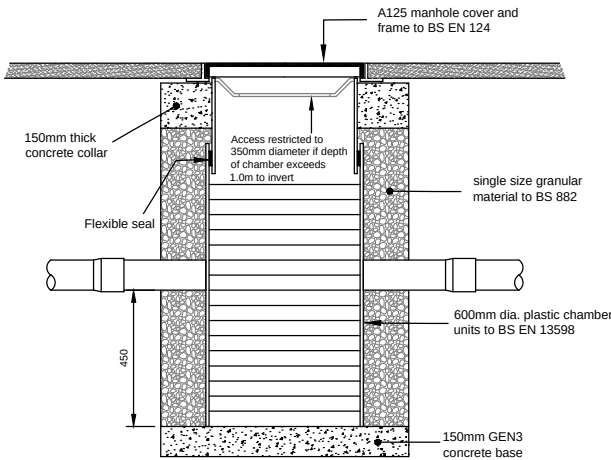
Ashgrove



Plan - scale 1:200

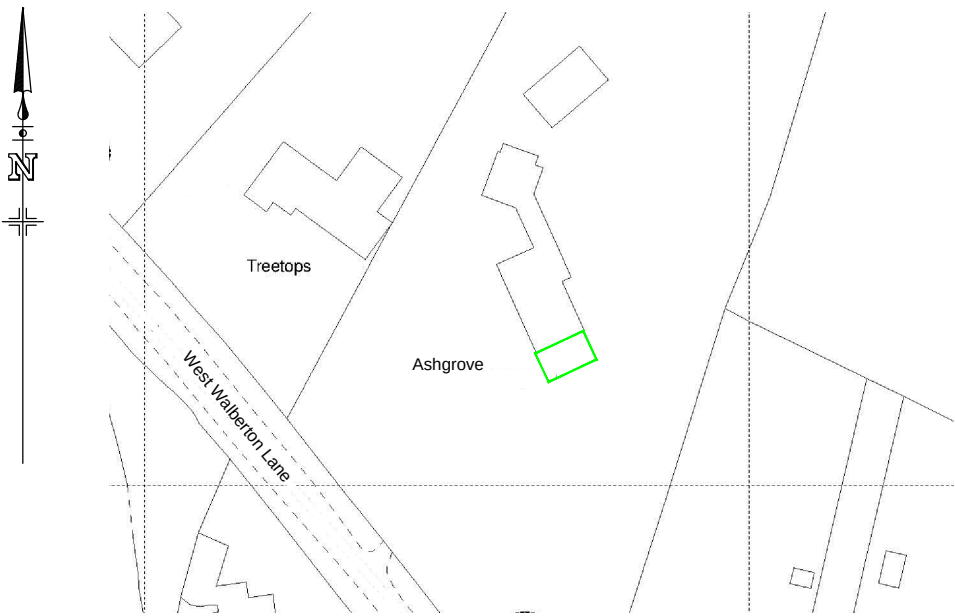


Typical Geocellular soakaway Unit
(for use in soft landscaped areas)



Typical Silt Trap Inspection Chamber Detail
(for use in landscaped areas and footways)

Construction Details - scale 1:25



Location Plan - scale 1:1250

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over Head Deposits of gravel, sand, silt and clay over The Lambeth Group of clay, silt and sand. The Head Deposits were encountered at 350 to 400mm below ground level and comprised dense gravelly silty brown clays that became softer grey clay at depth with some grit.

Groundwater was not encountered in test pits excavated in early September 2018.

Percolation tests carried out to BRE365 provided a minimum soil infiltration rate of 3.071×10^{-6} m/s in early September 2018 and whilst groundwater would not seem to be an issue here, a fairly large soakaway will be required to drain this development.

We have designed a single geocellular soakaway, using 800mm units with 500mm of cover in a soft landscaped area as shown, which will be suitable to drain the development on a rainfall event with a return period of 1 in 100 years with an addition of 40% for climate change. A factor of safety of 3 has been used since the testing was not carried out in the winter period. The half-drain time of the soakaway is longer than we would normally accept but the development is a small conservatory and there is plenty of garden area available to cater for excedence.

KEY

--- Proposed storm drainage
100mm dia at min 1:100

○ Proposed silt trap inspection chamber

■ Proposed geocellular soakaway as detailed in 0.8m deep geocells

■ New roof areas to be drained to geocell G1

+27.87 Existing ground levels in meters AOD

SL #.### Soffit (top) level of geocells

BL #.### Base level of geocells

CL #.### Cover level of surface water drains

IL #.### Invert level of surface water drains

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

Rev.	Description	Drn.	Date
-	Original	RTFC	15.9.18

Project
Ashgrove West Walberton Lane West Sussex

Client
Nick Dobson
Drawing Title
Surface Water Drainage

Robert Clark Associates Ltd Chartered Civil Engineers Willow Cottage, Herne Lane, Rustington West Sussex BN16 3EE T: 01903 778945 E: rca-ltd@talktalk.net

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Scale	As shown	At original	A3
Drawing Number	1900/SK1		Revision -