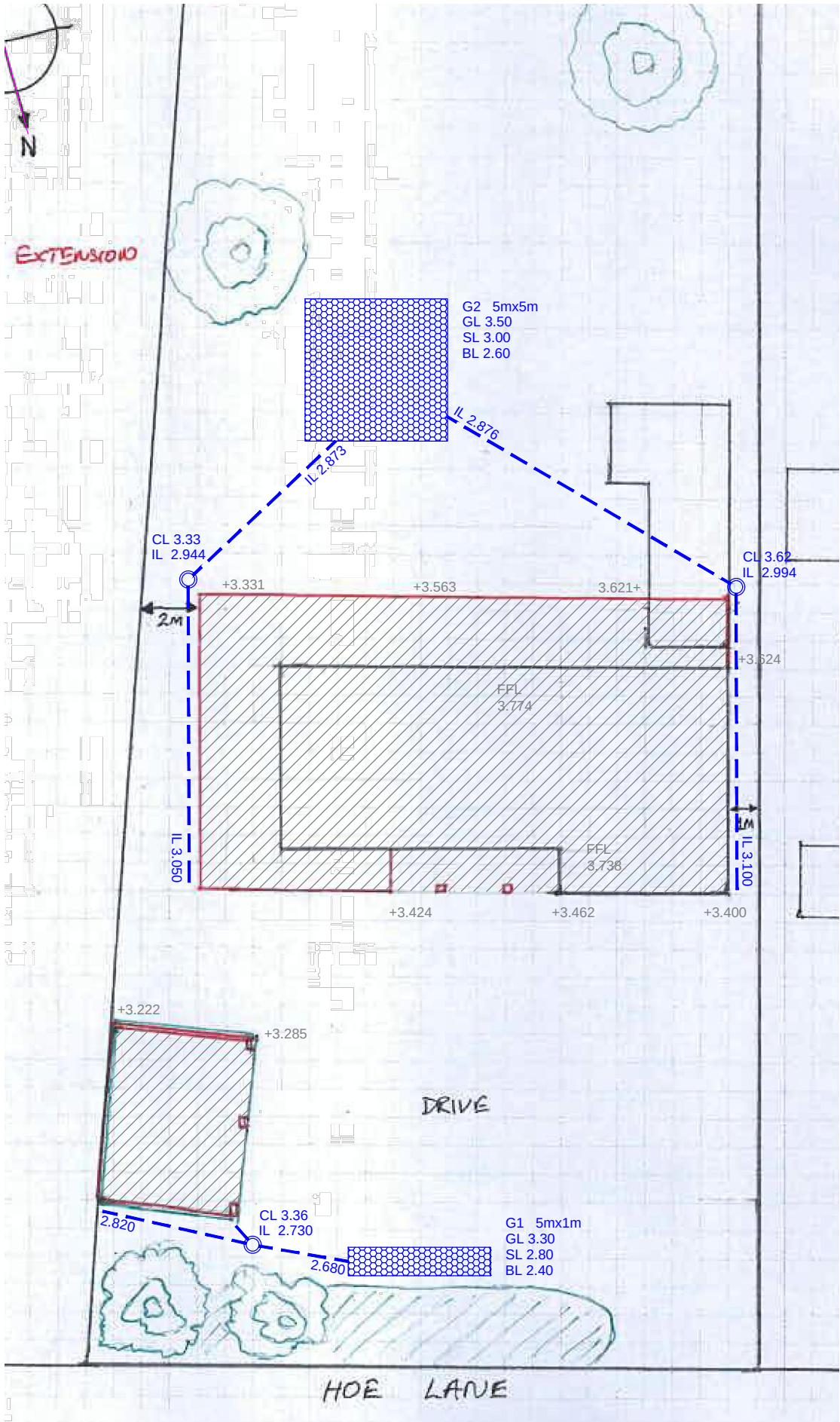
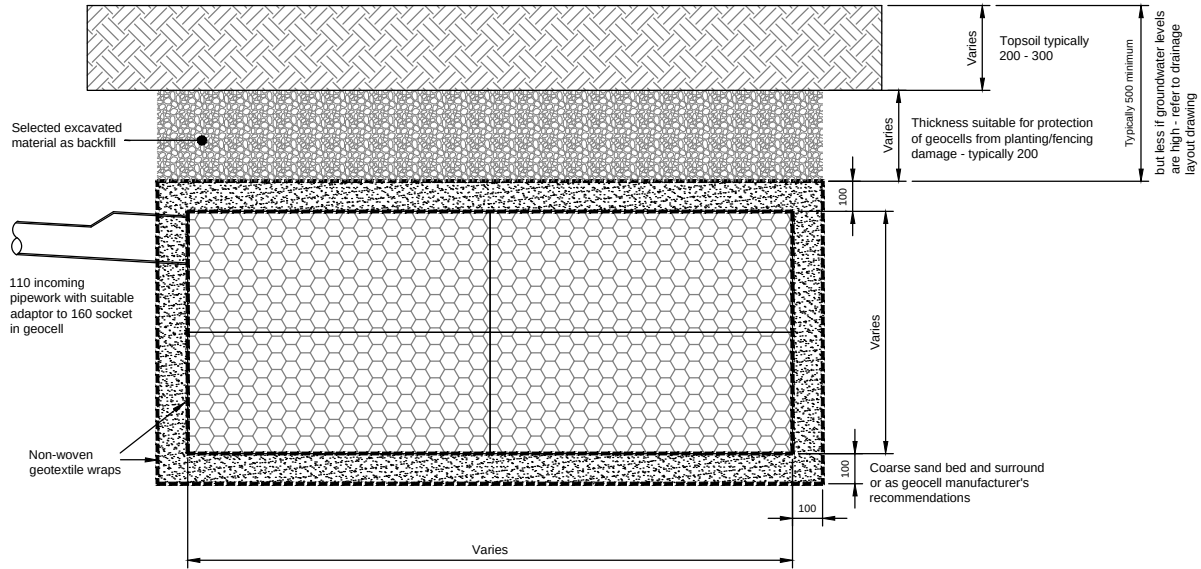
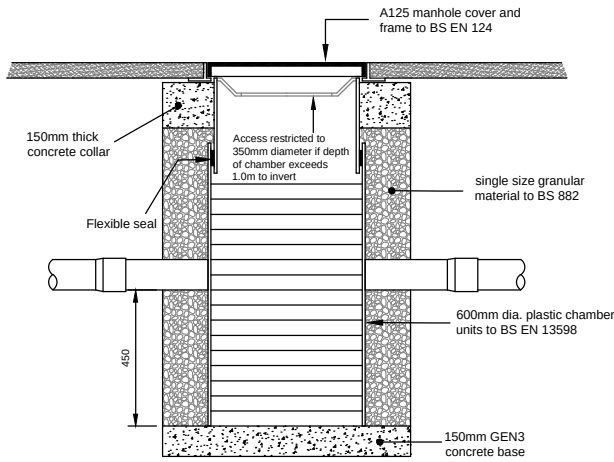




Plan - scale 1:200

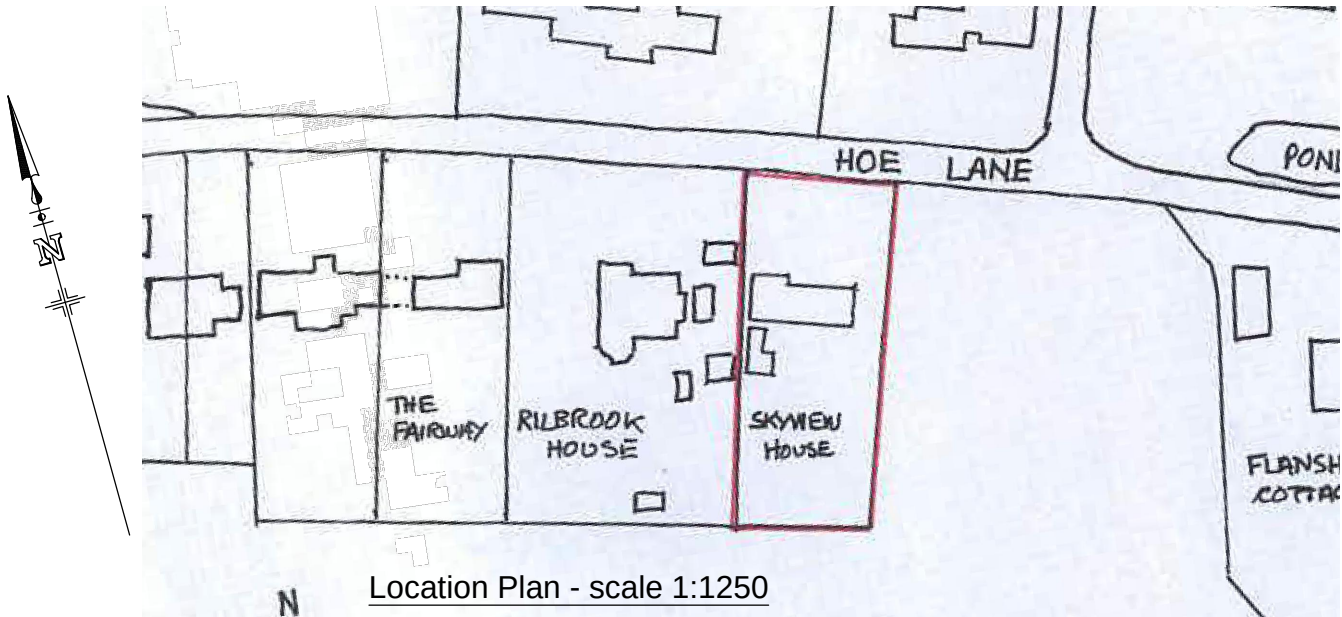


Typical Geocellular soakaway Unit
(for use in soft landscaped areas)



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

Construction Details - scale 1:25



Location Plan - scale 1:1250

Surface Water Drainage Design Notes

The geology here indicates Topsoil over River Terrace Deposits of silt, sand, clay and gravel over Upper Chalk. The River Terrace Deposits were found at 150 - 300 mm below ground level and comprised silty sandy clays with some medium sub-rounded flint gravel and some chalk at depth. The Upper Chalk was not encountered in test holes that extended to 3m below ground level.

Two groundwater monitoring points were installed and the highest recorded levels were 899mm below ground level in late December 2018 and 906mm below ground level in mid February 2019.

The drainage design is based on several percolation tests carried out to BRE 365 principles in late 2018. An average soil infiltration rate of 6.585×10^{-6} m/s was obtained at the front of the site and 1.413×10^{-5} m/s in the rear garden.

The existing dwelling drains partly to ground and partly to its foul water drains. New geocellular soakaways have been designed for the garage and the existing house with its proposed extension(s) which will be suitable to drain the new roof areas without flooding on a 1 in 100 year rainfall event + 40% climate change addition.

KEY

- Proposed storm drainage 100mm dia at min 1:100
- Proposed geocellular soakaway as detailed in 0.4m deep geocells
- New roof areas to be drained
- +27.87 Existing ground levels in metres AOD
- CL #.### Cover level of surface water manholes
- SL #.### Soffit (top) level of geocells
- BL #.### Base level of soakaways
- IL #.### Invert level of surface water drains
- Proposed silt trap inspection chamber

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	RTFC	17.3.19
Rev.	Description	Drn.	Date

Project Skyview House Hoe Lane Flansham			
Client Julian Powell			
Drawing Title Surface Water Drainage			
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Scale	As shown	At original	A3
Drawing Number	2006/SK3		Revision -