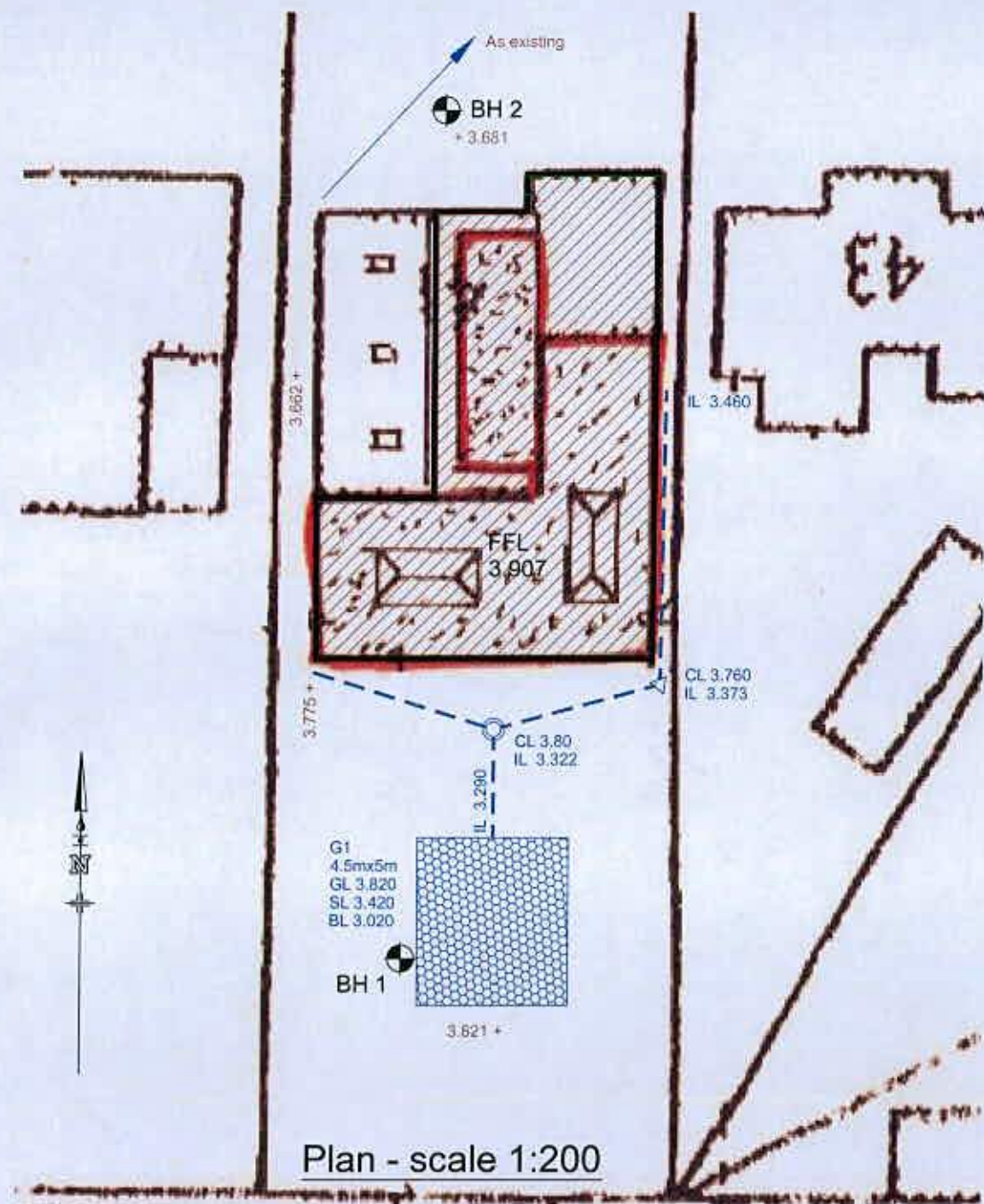




Plan - scale 1:200

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over River Terrace and Raised Beach Deposits of sand silt clay and gravel over Upper Chalk. The River Terrace Deposits were found at 0.1 to 0.2 m below ground level and were found to comprise soft sandy silty clays with some grit and sub-rounded gravel. The Upper Chalk was not encountered in test holes that extended to 1.7m below ground level.

No groundwater was found during investigations, which were carried out in December 2018 but subsequent monitoring carried out through to late March 2019 showed highs of 852mm below ground level in late December and 895mm in early February.

The drainage design is based on percolation tests carried out to BRE 365 principles in two separate test holes in mid-December 2018. An average soil infiltration rate of 4.0705×10^{-6} m/s was obtained.

A 400mm deep rectangular geocellular soakaway has been designed, 5.0m long x 4.5m wide, which will be suitable to drain a roof area of 108 sq.m without flooding on a 1 in 100 year rainfall event + 40% climate change addition. The soakaway should be sited a minimum of 5m from any building to avoid any saturation of the ground and settlement affecting the structure.

KEY

Proposed storm drainage
100mm Dia at min 1:100

Proposed silt trap inspection chamber

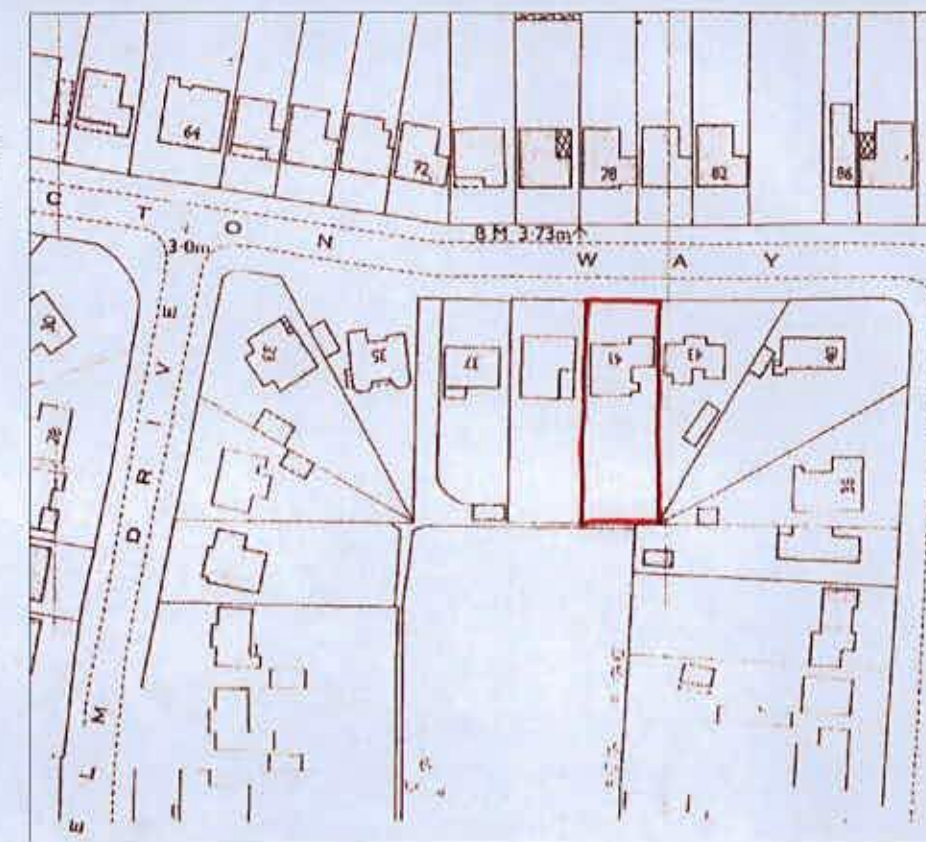
250 dia surface water inspection chamber

Proposed geocellular soakaway
22.5sq.m of 400mm deep geocells

Existing and proposed roof areas
to be drained to new soakaway

Existing ground levels in metres AOD

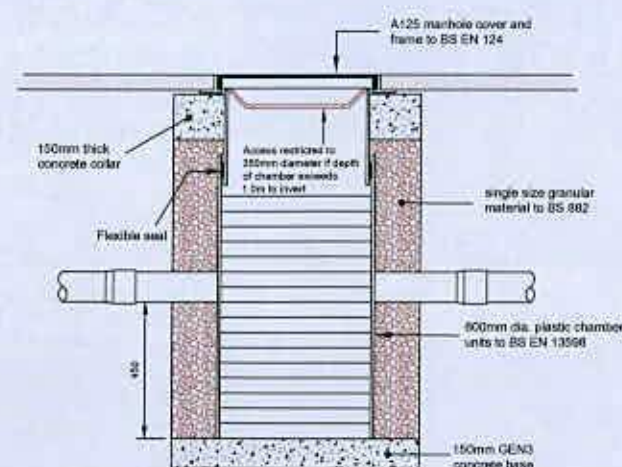
BH 1 Borehole/test pit locations



Location plan - scale 1:1250

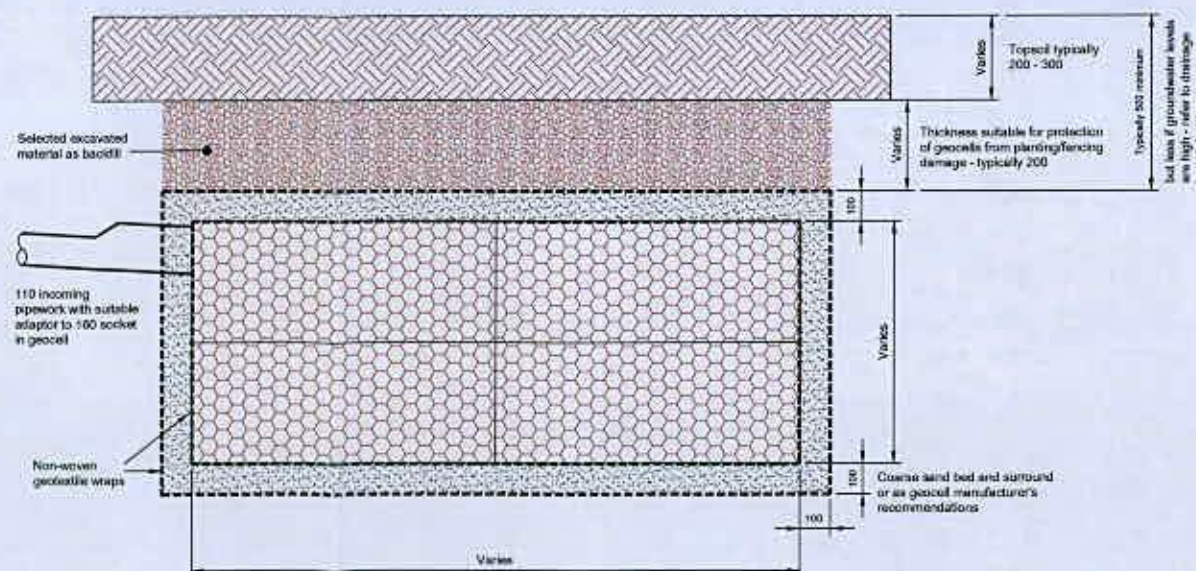
NOTE

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



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

Construction Details



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

Rev.	Description	Drn.	Date
-	Original	RTFC	28.3.19

Project	41 Ancton Way Elmer Sands West Sussex
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Client	Jon Etherington
Drawing Title	Surface Water Drainage

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Scale	As shown
At original	A3
Drawing Number	2016/SK2
Revision	-