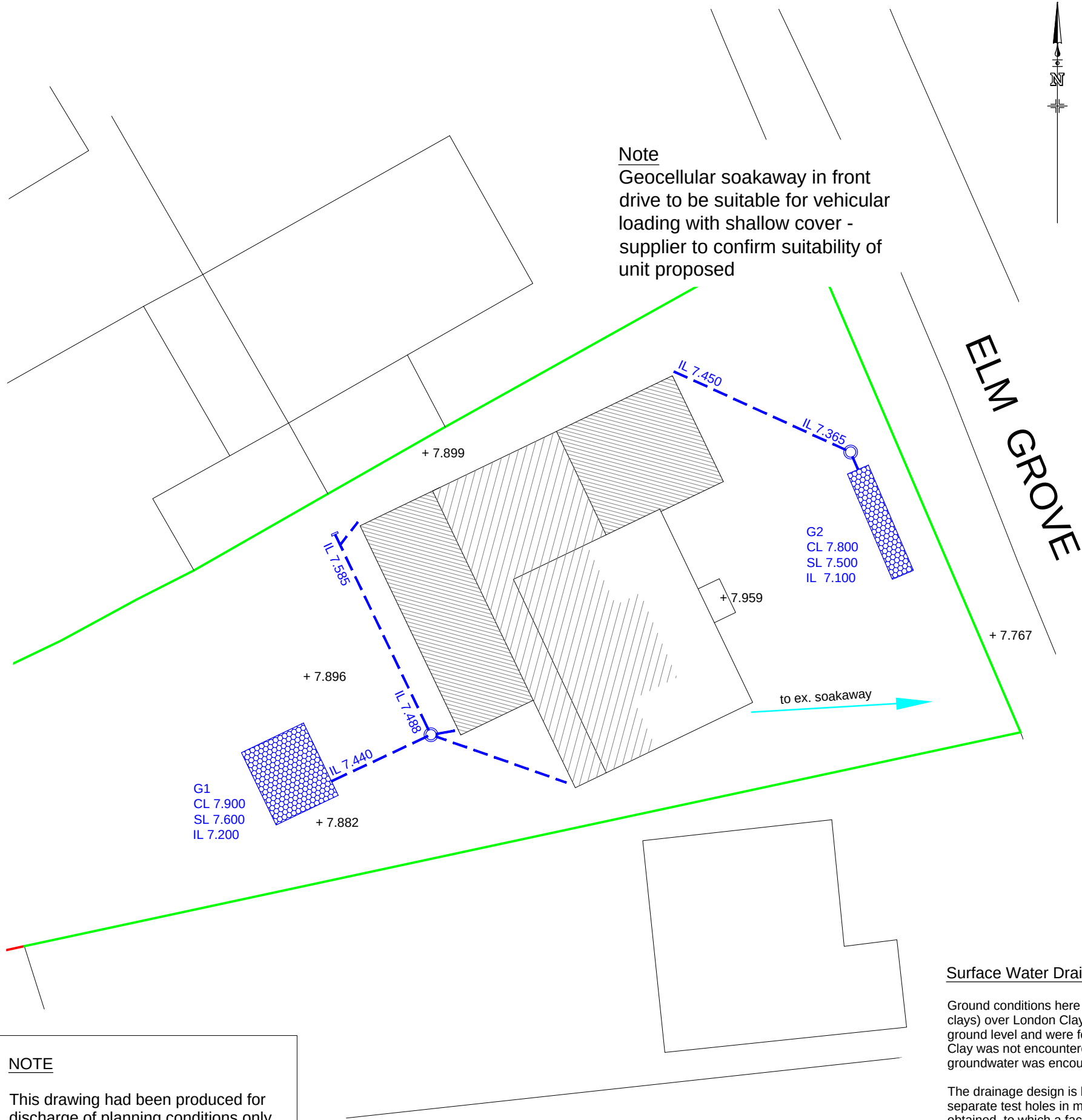
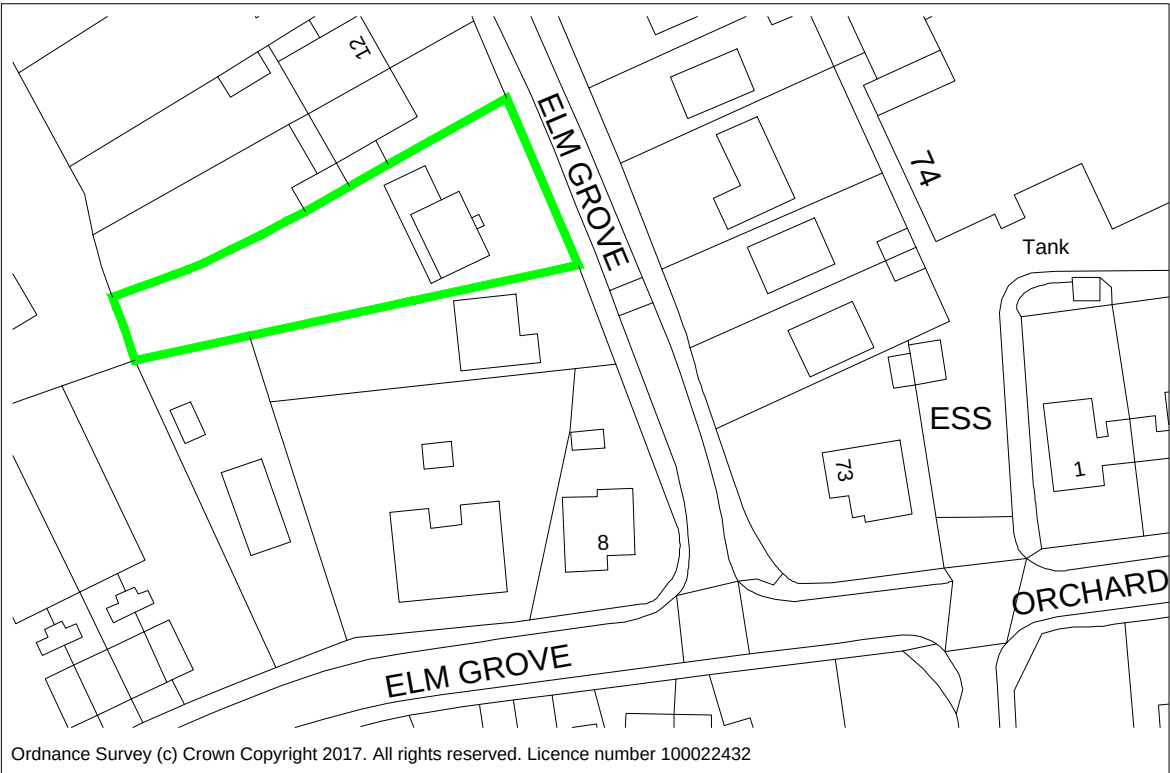




NOTE

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

Plan - scale 1:200



Location plan - scale 1:1000

- KEY**
- Proposed storm drainage 100mm dia at min 1:100
 - Proposed silt trap inspection chamber
 - Surface water rodding eye
 - Proposed geocellular soakaways in 400mm deep units
 - New extension to be drained to geocell G1
 - Existing roof areas to be drained to geocell G1
 - +7.873 Existing ground levels in meters AOD
 - SL 7.480 Soffit (top) level of geocells
 - BL 7.080 Base level of geocells
 - IL 7.480 Invert level of surface water drains

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over River Terrace Deposits (soft to firm silty sandy clays) over London Clay. The River Terrace Deposits were found at 0.30 to 0.35m below ground level and were found to comprise soft to firm silty clays with some gravel. The London Clay was not encountered in test holes that extended to just 700mm below ground level when groundwater was encountered during the investigations in mid January 2018.

The drainage design is based on percolation tests carried out to BRE 365 principles in two separate test holes in mid January 2018. An average soil infiltration rate of 2.139×10^{-5} m/s was obtained, to which a factor of safety of 1.5 has been applied. One test in another pit gave a much higher rate of 7.092×10^{-4} m/s but this was discounted as it was thought to be an anomaly in the normal ground conditions, possibly due to an existing soakaway being close by.

A shallow geocellular soakaways have been designed, each using 400m deep geocells, which will be suitable to drain the new extensions and existing roof areas (hatched) to the dwelling without flooding on a 1 in 100 year rainfall event + 30% climate change addition.

-	Original	RTFC	6.2.18
Rev.	Description	Drn.	Date

Project
10 Elm Grove Barnham West Sussex

Client
Mr and Mrs Fulton
Drawing Title
Surface Water Drainage

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Scale As shown		At original A3	
Drawing Number 1770/D1.1		Revision -	