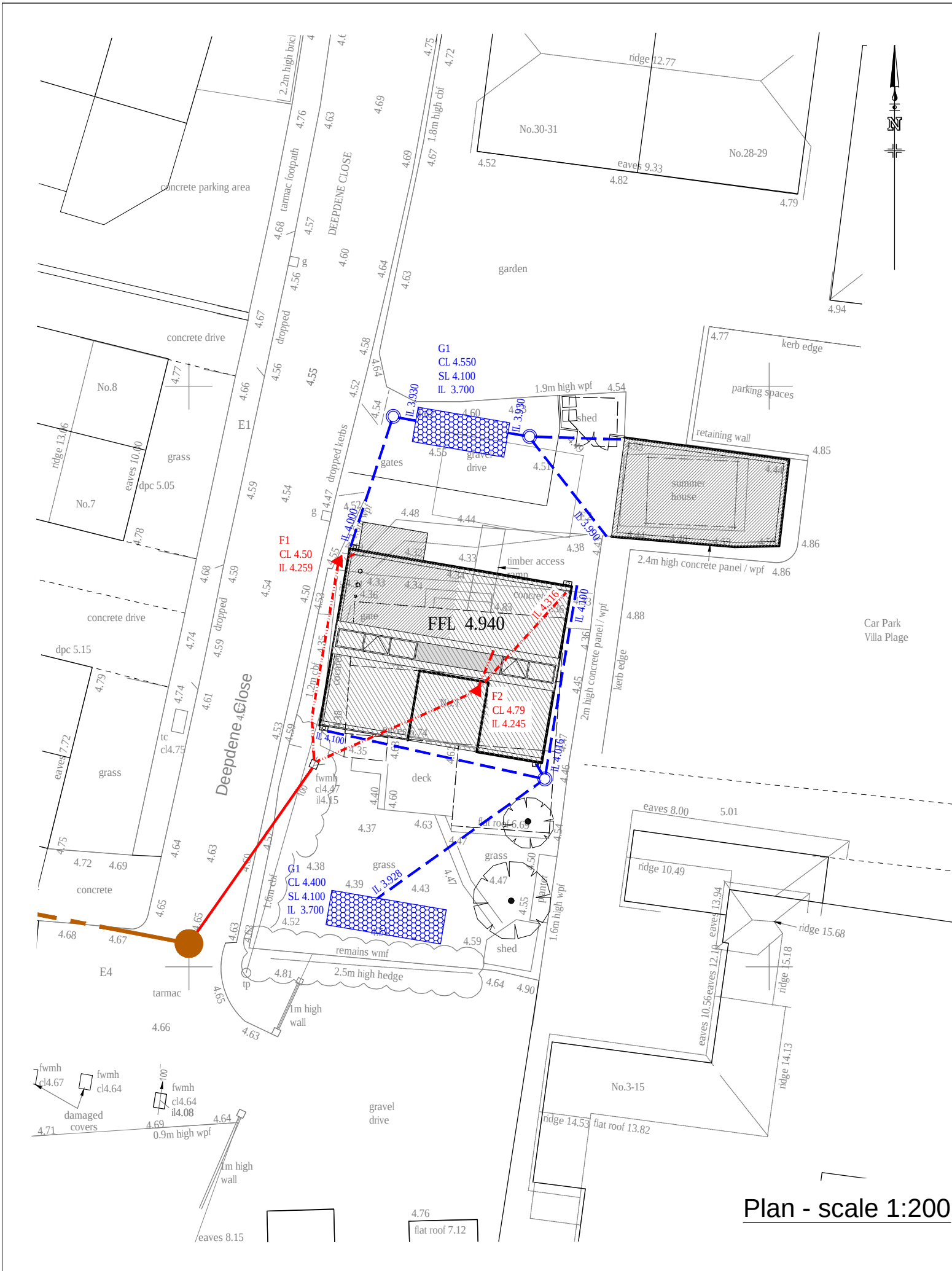




Plan - scale 1:200

KEY

Proposed storm drainage
100mm dia at min 1:100

Proposed silt trap inspection chamber

Proposed geocellular soakaway as
detailed in 0.4m deep geocells

New roof areas to be drained to
geocell G1

New roof areas to be drained to
geocell G2

Existing ground levels in meters AOD

Soffit (top) level of geocells

Base level of geocells

Invert level of surface water drains

Proposed foul drainage
100mm dia at min 1:80

Existing foul drainage to remain TBC

Existing public foul water sewer

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

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.

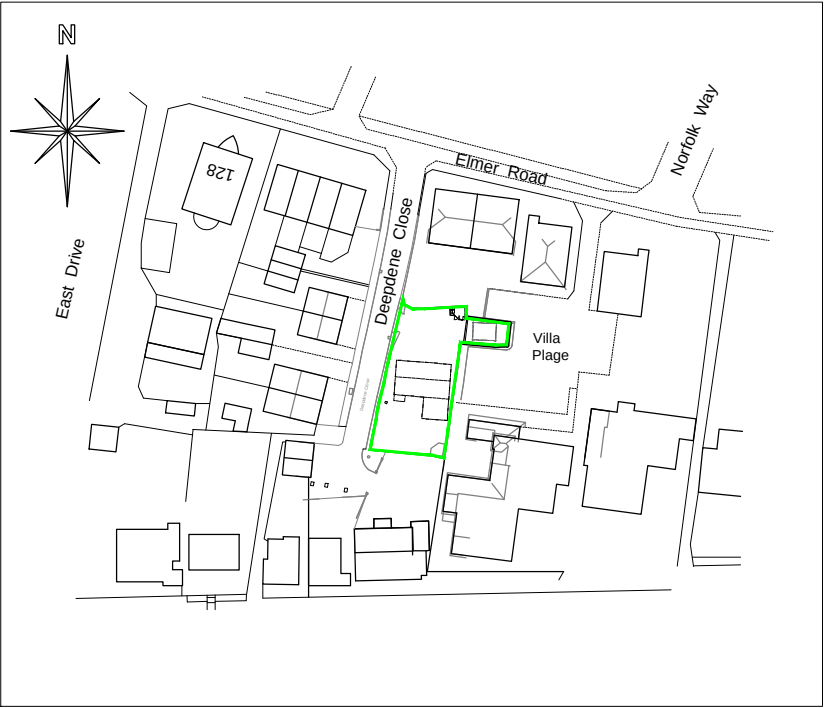
The drainage design is based on 3 percolation tests carried out by others to BRE 365 principles in January 2018 after a wet period. An average soil infiltration rate of 1.223×10^{-5} m/s was obtained.

No groundwater was encountered down to 1m below surface level but we consider that this is unusual for this area and we have designed two shallow soakaways each using 400mm deep geocells.

A shallow geocellular soakaway G1 has been designed for the front of the dwelling and the garage, 4m long x 1.5m wide. Suitable geocellular units will need to be chosen that will accept the anticipated vehicle loading, having regard to the cover than can be provided - refer to manufacturer for guidance.

The rear of the dwelling will be taken to a further geocellular soakaway G2 which is 5m long x 1.5m wide in a soft landscaped area.

These two soakaways will be suitable to drain the new dwelling and the detached garage without flooding on a 1 in 100 year rainfall event + 30% climate change addition.



Location plan - scale 1:1250

-	Original	RTFC	13.2.18
Rev.	Description	Drn.	Date

Project
1 Deepdene Close Middleton on Sea West Sussex

Client
Graeme McMurchie
Drawing Title
FW and SW Drainage

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Scale As shown		At original A3	
Drawing Number 1751/D1.1		Revision -	