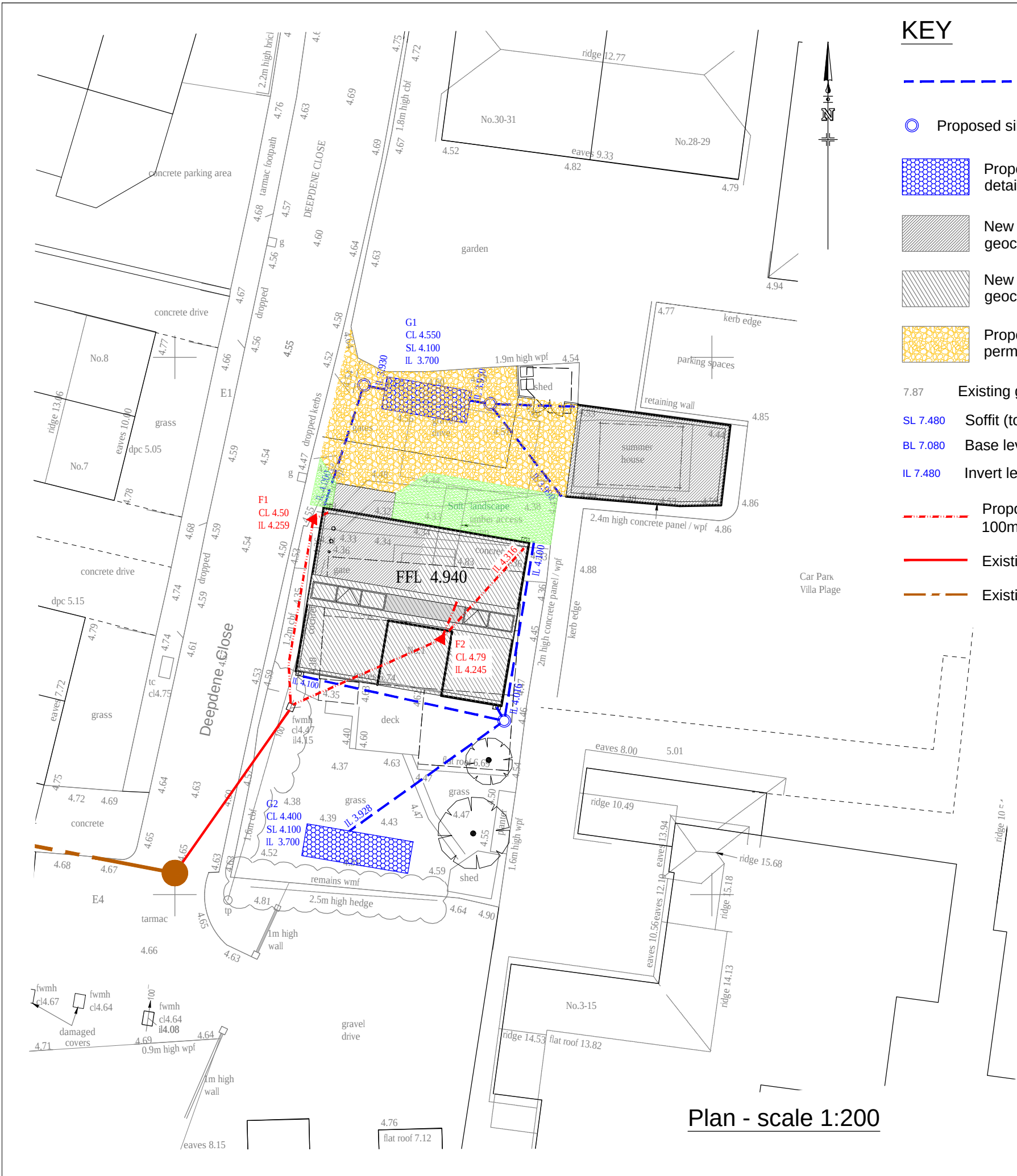
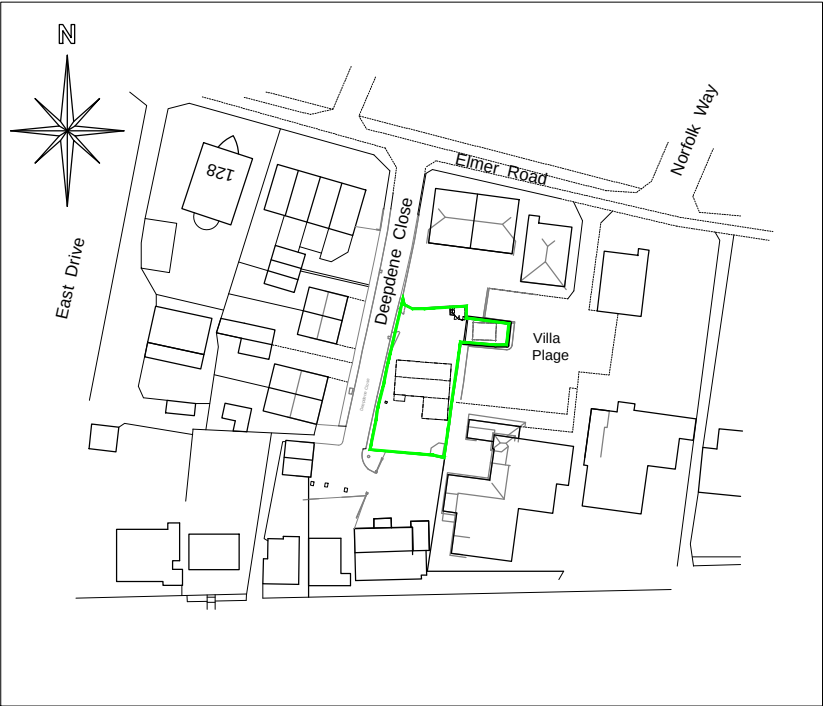




Plan - scale 1:200

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
- Proposed Ecobloc 50 or similar
permeable driveway
- 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



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

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 1.223x10⁻⁵ 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.

It is proposed to use a plastic grid system for the front drive such as Ecobloc 50 or similar filled with decorative stone laid to the manufacturers recommendations having regard to the anticipated loadings and the strength of the formation.

A	Permeable driveway details added	RTFC	5.4.18
-	Original	RTFC	13.2.18
Rev.	Description	Drn.	Date

Project	1 Deepdene Close Middleton on Sea West Sussex
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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	A