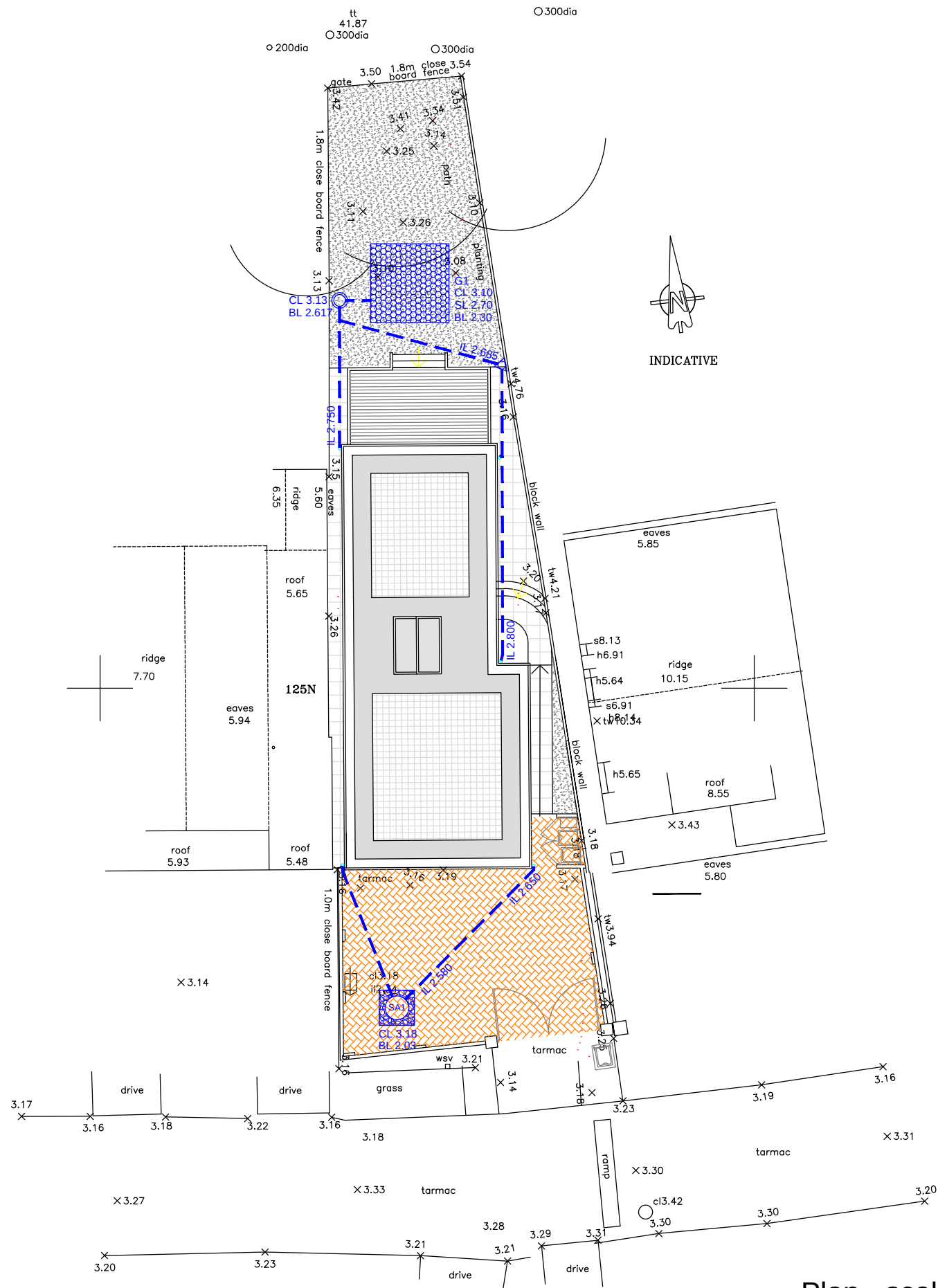




Plan - scale 1:200

KEY

- Proposed storm drainage
100mm dia at min 1:100
- 250 dia surface water inspection chamber
- Proposed silt trap inspection chamber
- Proposed geocellular soakaway
9sq.m of 0.4m deep geocells
- Permeable paving
- Concrete ring soakaway
900mm internal diameter



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 percolation tests carried out by others to BRE365 principles in late December 2017 after a period of heavy rain. A minimum soil infiltration rate of 1.09x10⁻⁶ m/s was obtained.

Groundwater was encountered at 780mm below surface level.

A shallow geocellular soakaway has been designed, 9sq.m in area x 0.4m deep for the rear of the dwelling. The front of the dwelling will be taken to a concrete ring soakaway, which will act as a silt trap and distribute flow to a permeable paved front drive, which will require 300mm of coarse graded aggregate for hydraulic storage. This combination of SuDs features will be suitable to drain the new dwelling without flooding on a 1 in 100 year rainfall event + 30% climate change addition.

-	Original	RTFC	21.1.18
Rev.	Description	Drn.	Date

Project
72 Ancton Way Elmer Sands West Sussex

Client
Chris Galley
Drawing Title
Surface Water Drainage

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Scale As shown		At original A3	
Drawing Number 1748/D1.1		Revision -	