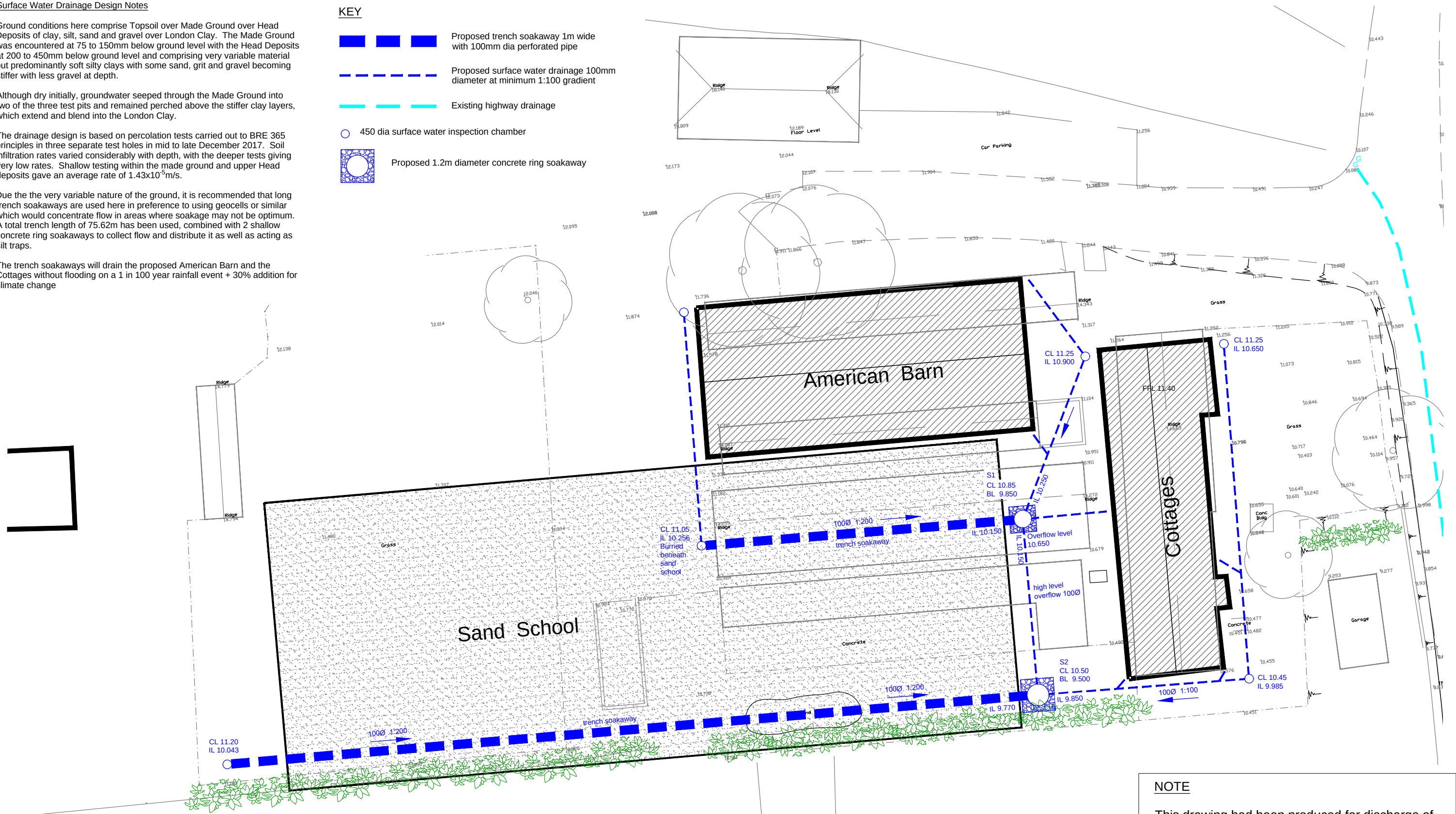


Ground conditions were comprise Topsoil over Made Ground over Head Deposits of clay, silt, sand and gravel over London Clay. The Made Ground was encountered at 75 to 150mm below ground level with the Head Deposits at 200 to 450mm below ground level and comprising very variable material but predominantly soft silty clays with some sand, grit and gravel becoming stiffer with less gravel at depth.

The drainage design is based on percolation tests carried out to BRE 365 principles in three separate test holes in mid to late December 2017. Soil infiltration rates varied considerably with depth, with the deeper tests giving very low rates. Shallow testing within the made ground and upper Head deposits gave an average rate of $1.43 \times 10^{-5} \text{ m/s}$.

The trench soakaways will drain the proposed American Barn and the Cottages without flooding on a 1 in 100 year rainfall event + 30% addition for climate change

 Proposed trench soakaway 1m wide with 100mm dia perforated pipe
 Proposed surface water drainage 100mm diameter at minimum 1:100 gradient
 Existing highway drainage
 450 dia surface water inspection chamber
 Proposed 1.2m diameter concrete ring soakaway



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

-	Original	PC		RTFC	19.2.18
Rev.	Description	App.	Chk.	Drn.	Date

Client	Mr and Mrs Ayling
Drawing Title	Surface Water Drainage

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Scale 1:250	At original A3
Drawing Number 1774/D1.1	Revision -