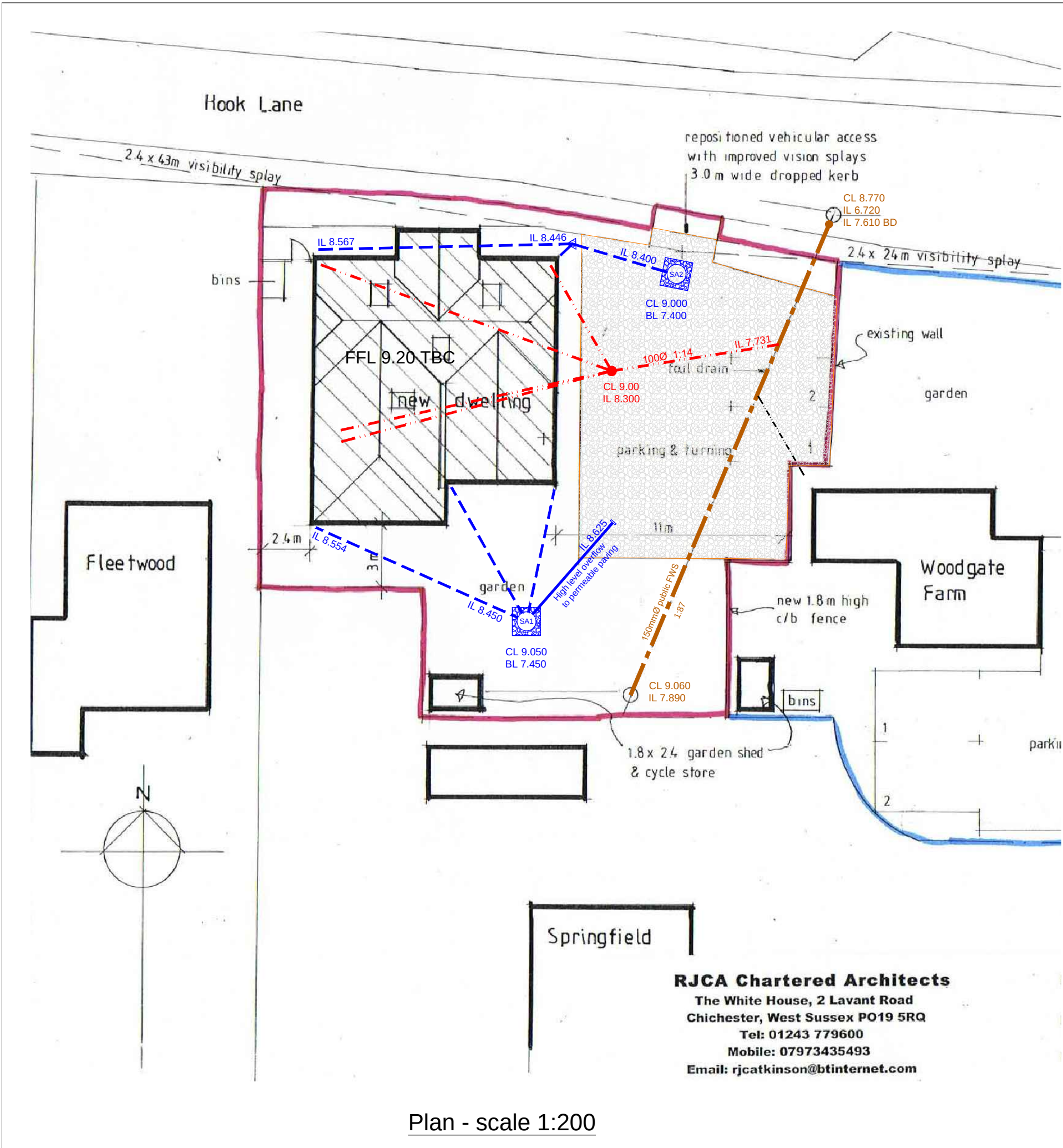
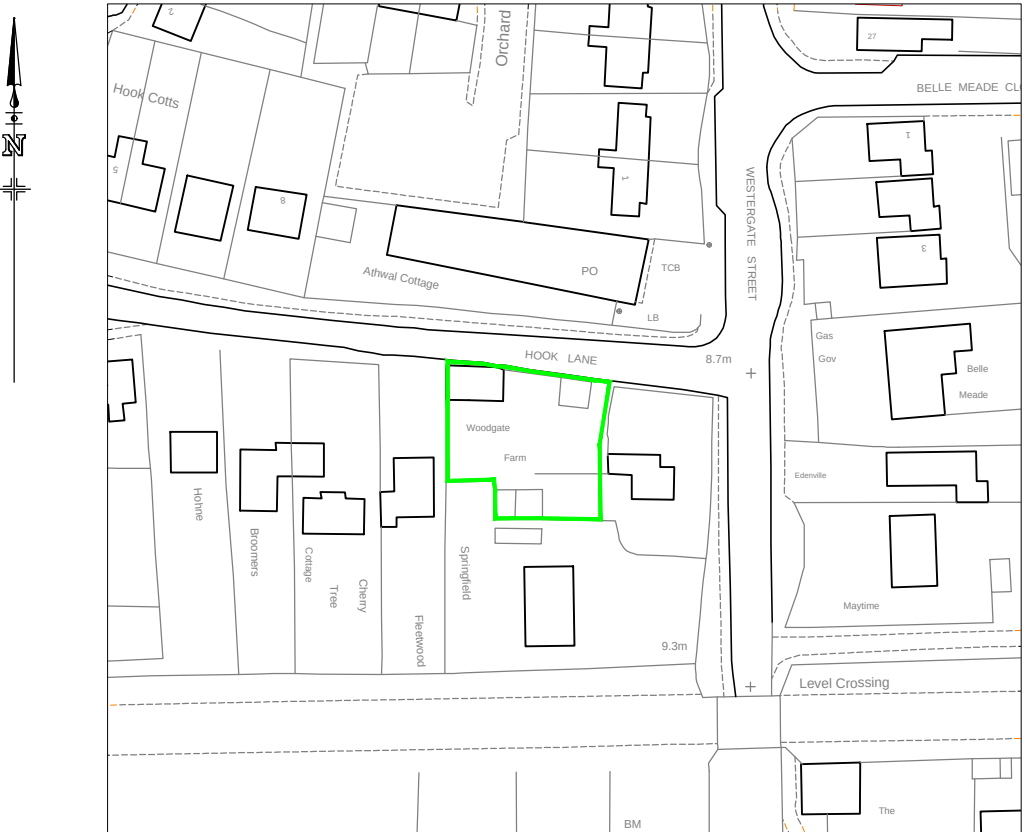




Plan - scale 1:200



Location plan - scale 1:1250

- Key**
- Proposed surface water drainage
 - 250 dia surface water inspection chamber
 - 500 dia surface water silt trap IC
 - Direct connection into permeable paving
 - Existing public foul water sewer
 - Proposed foul water drainage
 - 250 dia foul water inspection chamber
 - 450 dia foul water inspection chamber
 - Concrete ring soakaway
1.2m diameter 1.6m deep
 - Suitable angular stone on Ecoblock 50
HDPE cellular grid on 350mm of coarse
graded aggregate with Terram surround

Surface Water Drainage Design Notes

Ground investigations carried out by others were found to comprise Topsoil over River Terrace Deposits (soft to firm silty sandy clays) over London Clay. The River Terrace Deposits were found at 0.3m below ground level and were found to comprise slightly silty sandy CLAY over fine and medium SAND below 1.5m. The London Clay was found at 3.6m below ground level. Groundwater was found at 1.5m below ground level rising to 0.9m during the investigations in mid-January 2017.

The drainage design is based on percolation tests carried out to BRE365 principles in mid-March 2017. A minimum soil infiltration rate of 1.5×10^{-6} m/s was obtained.

Shallow soakage in coarse graded aggregate beneath a suitable angular stone in Ecoblock 50 has been designed to accept all water from roofs and the drive/access. This will be suitable to drain a roof area of 142 sq.m without flooding on a 1 in 100 year rainfall event + 40% climate change addition. Two 1.2m diameter concrete ring soakaways have been included located a minimum of 5m from the proposed new building and the public sewer that crosses the site. Whilst these soakaways will not perform well when groundwater is high, they will allow some water to penetrate to the underlying sand, with excess water being distributed to the coarse graded aggregate beneath the angular stone surfacing.

B	Foul Drainage and levels added	RTFC	23.8.17
A	Surfacing changed to angular stone	RTFC	6.7.17
-	Original	RTFC	6.2.17
Rev.	Description	Dmn.	Date

Project	Land at Woodgate Farm Hook Lane Woodgate
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Client	Bryan Fry
Drawing Title	Surface Water Drainage

Robert Clark Associates Ltd Chartered Civil Engineers Willow Cottage, Herne Lane, Rustington West Sussex BN16 3EE T: 01903 778945 E: rca-ltd@talktalk.net

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	As shown	A3	B
Drawing Number	1726/D1.1		