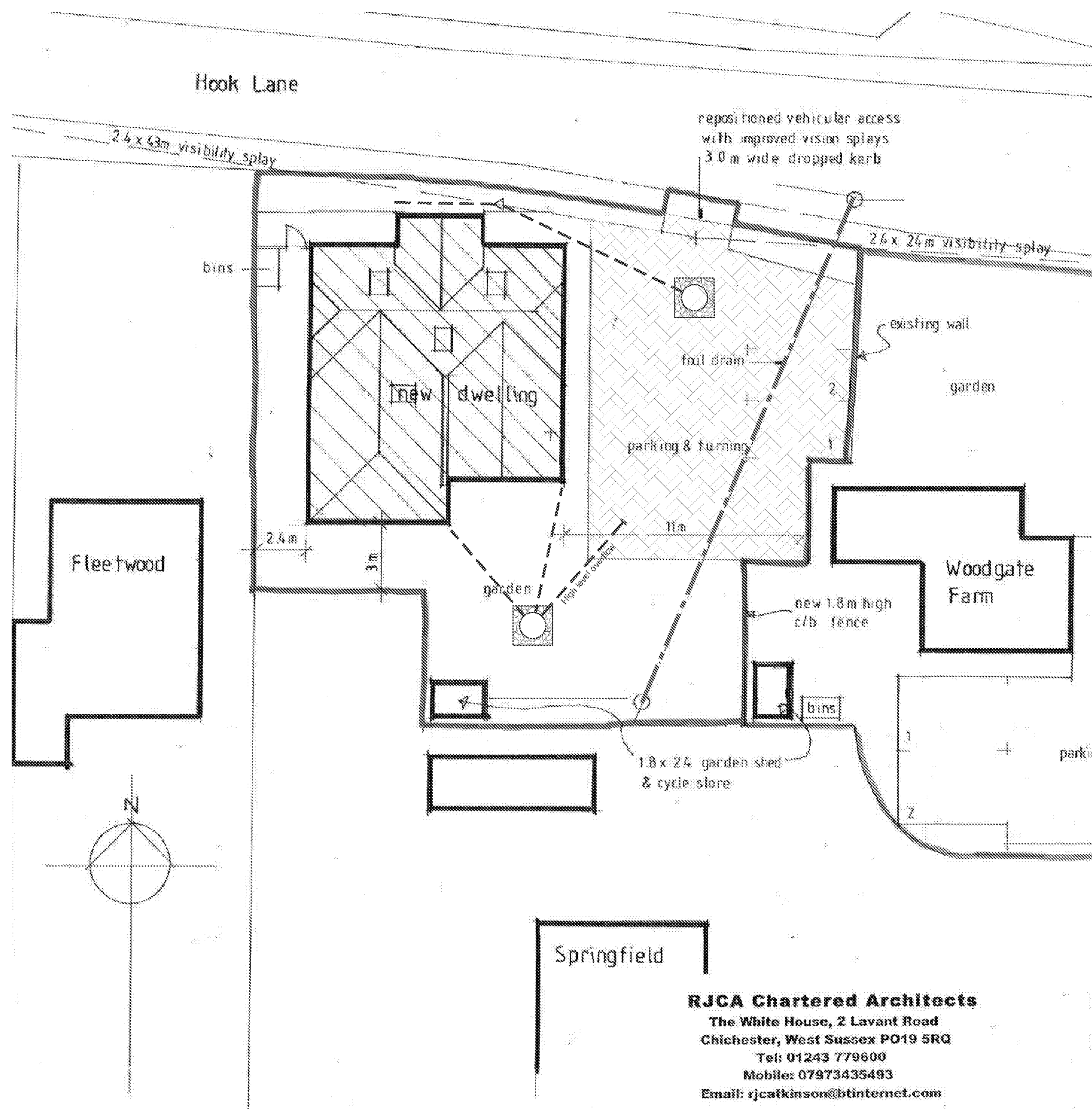




Plan - scale 1:200



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
-  Concrete ring soakaway
 1.2m diameter 1.6m deep
-  Concrete block permeable paving with
 minimum of 350mm of coarse graded
 aggregate

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 concrete block permeable paving 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 permeable paving.

-	Original	RTFC	6.2.17
Rev.	Description	Drn.	Date

Project

Land at Woodgate Farm
Hook Lane
Woodgate

Client	Bryan Fry
Drawing Title	Surface Water Drainage

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Scale	At original	A3
Drawing Number 1726/D1.1		Revision -