

Statement on Flood Risk and Drainage

Drawings

The following drawings are attached to support this report:

Drawing No. 1781/D1.1 Drainage Layout

Flood Risk

The site is indicated on the attached Plan and is shown to lie in Flood Zone 1 on the Environment Agency's current Flood Map for Planning. It has therefore been assessed as being at low risk from both tidal and fluvial flooding.

Foul Water Drainage

There is a public foul water sewer crossing the site to which a connection could be made as shown. The sewer is a 150mm diameter vitrified clay pipe, approximately 1.2m deep.

Surface Water Drainage

The site is currently mainly 'greenfield' comprising, part of the garden to No.2 Mill Cottages, although there is a garden shed on the site at present that will be removed. There is no public surface water sewer or watercourse available and surface water from the new building will need to be taken to a soakaway.

The local geology comprises River Terrace Deposits of clay, silt and sand over London Clay of similar material. The River Terrace Deposits were found at 250mm below ground level and comprised soft to firm sandy clays with some small angular gravel, becoming more sandy with depth.

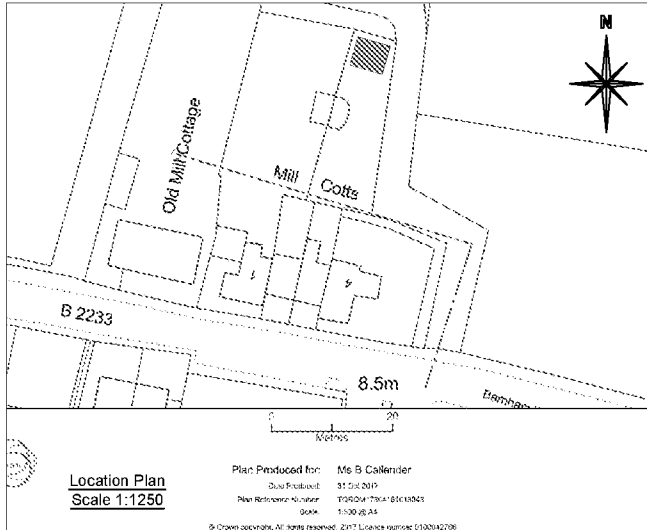
Percolation testing to BRE 365 principles was undertaken in early March 2018 to determine what form of SuDS solution could be used for the new development. Percolation rates of 1.79×10^{-4} m/s up to 1.92×10^{-4} m/s were found at 0.75m depth. Groundwater was encountered at 0.8m depth during the investigations.

The proposed development comprises a single new building of area just 24 sq.m and it has been shown that ground conditions are such that a suitable SuDS system can be designed for this development, generally as indicated on the attached plan.

1781-R1
8 March 2018

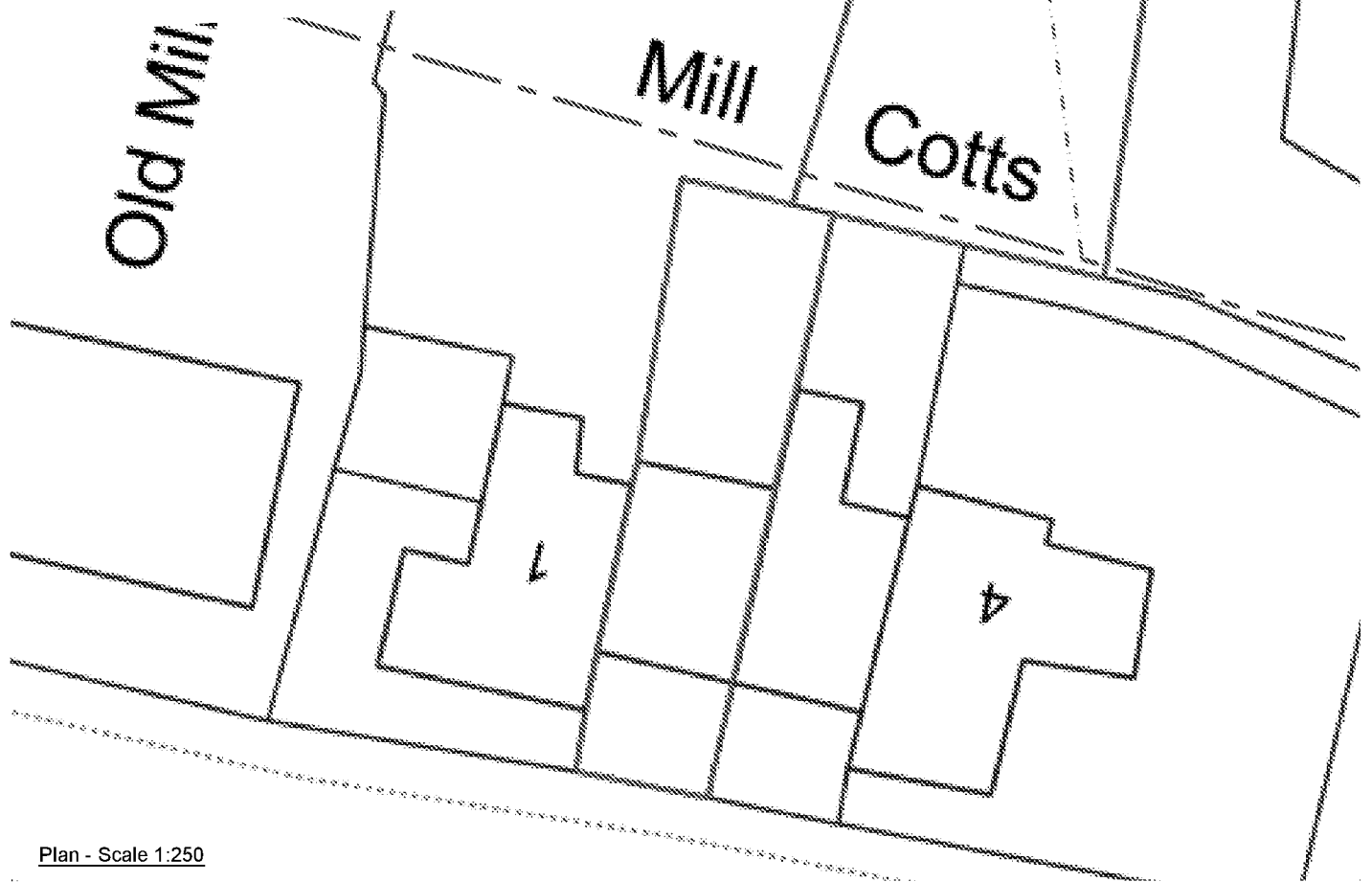
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KEY

- Proposed surface water drainage
- Proposed 500 dia surface water silt trap
- Proposed foul water drainage
- Existing public foul water sewer
- Proposed geocellular soakaway



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Client	Barbara Callender				
Project	2 Mill Cottages, Yapton Road, Barnham				
-	Original	PC	RTFC	8.3.18	
Rev.	Description	App.	Chk.	Dm.	Date

Title				
Drainage Layout				
Scale	As shown	At original	A4	© Robert Clark Associates Ltd
Drawing Number	1781/D1.1			Revision
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