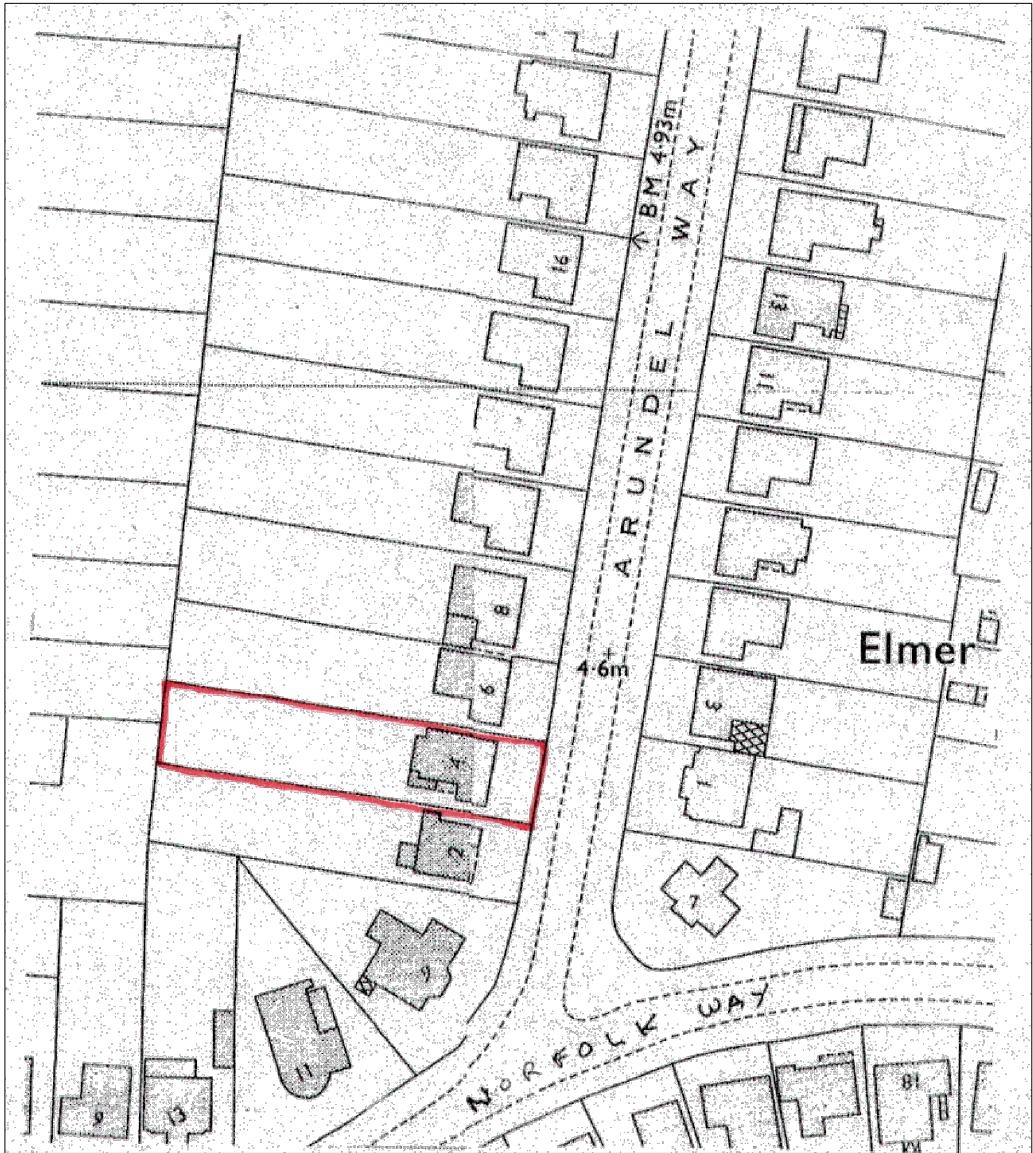
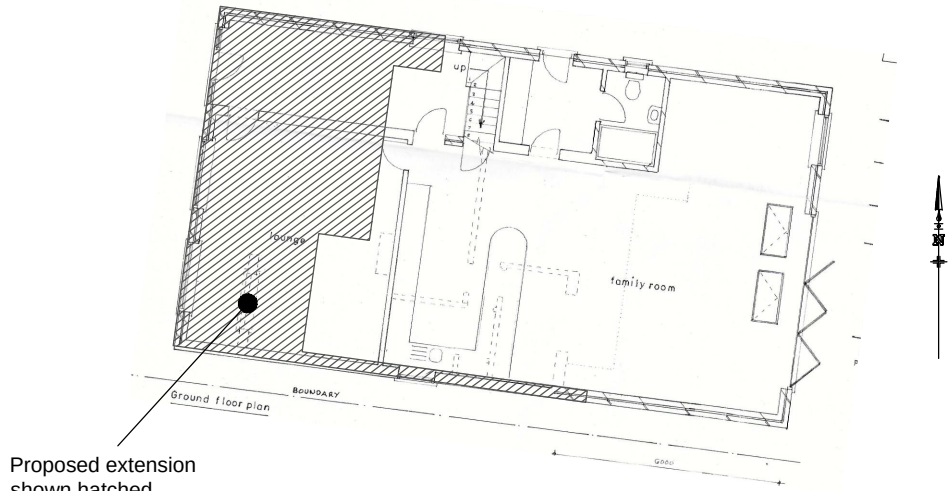
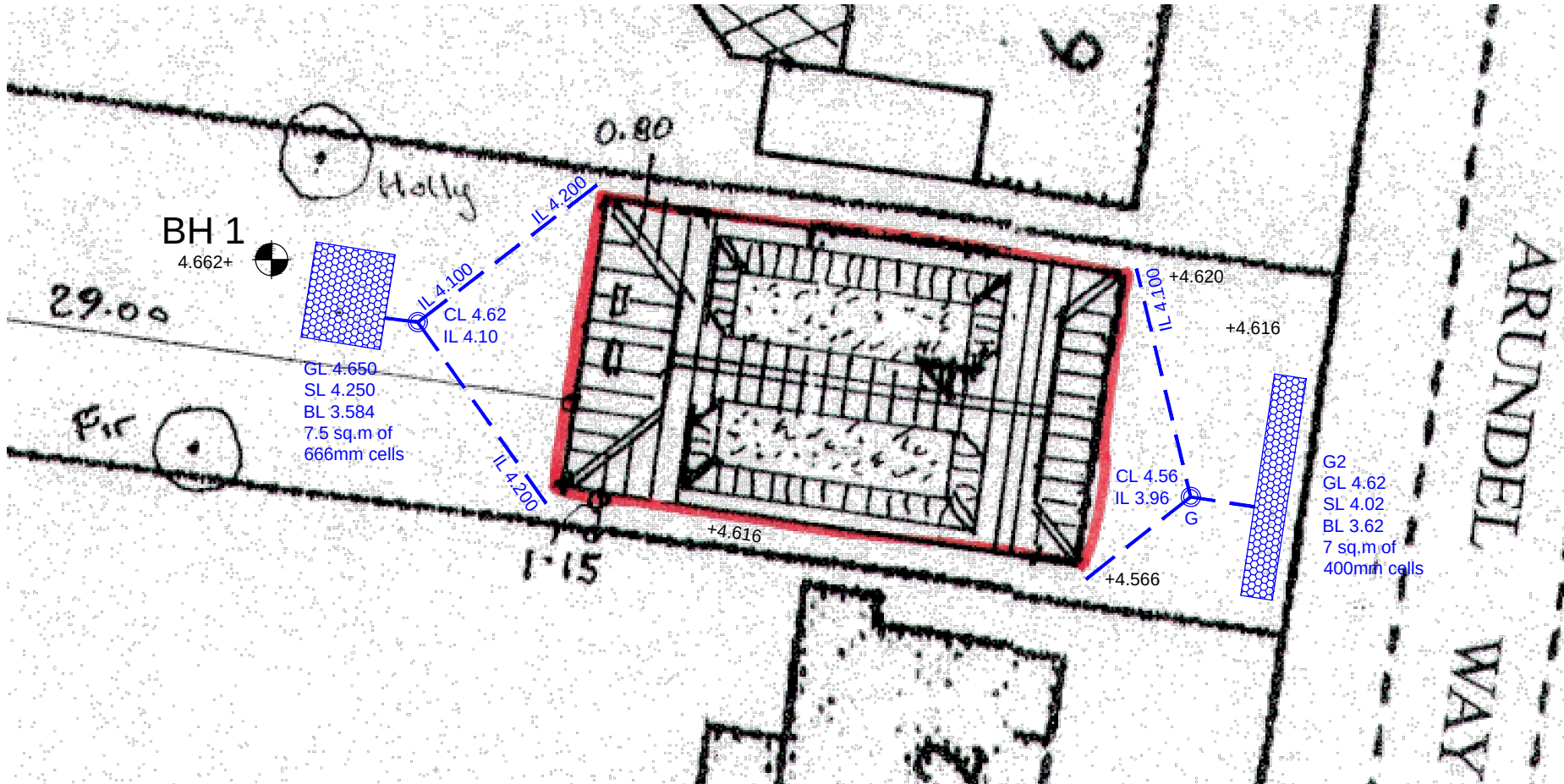




Location plan - scale 1:1250



Plan - scale 1:200



Surface Water Drainage Plan - scale 1:200

KEY

- Proposed storm drainage
100mm dia at min 1:100
- Proposed silt trap inspection chamber
- Proposed trapped yard gulley with
incoming RWP connections
- Proposed geocellular soakaway
- GL ##### Ground level
- SL ##### Soffit level of 'crates'
- BL ##### Base level of 'crates'

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 Raised Beach and River Terrace Deposits of silt, sand, clay and gravel over Upper Chalk. The Raised Beach/ River Terrace Deposits were found at 0.2m below ground level and were found to comprise soft to firm silty sandy clays with some grit and occasional large flints, becoming more gravelly with depth. The Upper Chalk was not encountered in test holes that extended to 1.2m below ground level.

Groundwater was encountered at 1.075m depth during the investigations in mid January 2018, rising to 1.065m during the testing and shallow soakage structures will thus be required.

The drainage design is based on percolation tests carried out to BRE365 principles in two separate test holes in mid-January 2018. A minimum soil infiltration rate of 2.335×10^{-5} m/s was obtained, to which a factor of safety of 1.5 has been applied.

Two geocellular soakaway have been designed, the one at the front being 7sq.m in area x 0.4m deep, which will be suitable to drain 50 sq.m of roof area together with the front parking area. The soakaway at the rear is to comprise 7.5 sq.m of 333mm deep cells in two layers and will be suitable to drain the remaining 100 sq.m of roof including the extension (hatched) without flooding on a 1 in 100 year rainfall event + 30% climate change addition.

Rev.	Description	Drm.	Date
-	Original	RTFC	21.1.18

Project	4 Arundel Way Elmer Sands West Sussex
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Client	Mr and Mrs Elkington
Drawing Title	Surface Water Drainage

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Scale	As shown	At original	A3
Drawing Number	1768/D1.1		Revision -