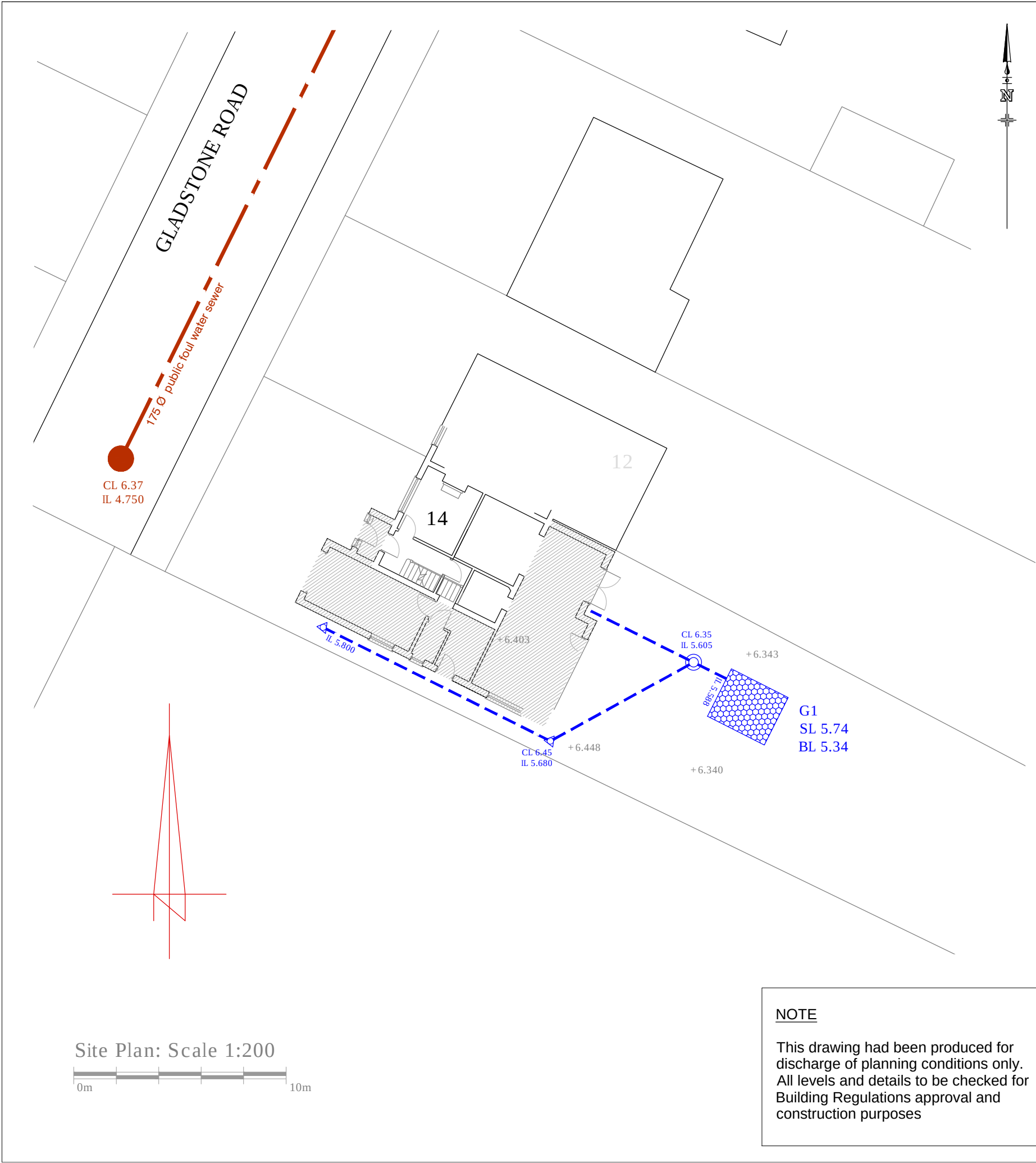




Location plan - scale 1:1250

KEY

- Proposed storm drainage
100mm dia at min 1:100
- 250 dia surface water inspection chamber
- Proposed silt trap inspection chamber
- Proposed geocellular soakaway
10.5sq.m of 0.4m deep geocells

Surface Water Drainage Design Notes

Ground conditions here comprise Topsoil over Brickearth/River Terrace Deposits (soft to firm silty sandy clays) over upper chalk. The River Terrace Deposits were found at 0.25m below ground level and were found to comprise soft to firm silt and silt clays with some gravel and occasional large flints, becoming more compact and gravelly with a little chalk at depth. The chalk was not formally encountered in test holes that extended to 1.82m below ground level. Groundwater was not encountered during the investigations in early November 2017 but was noted at 1.81m depth in a groundwater monitoring point in an adjacent field.

The drainage design is based on percolation tests carried out to BRE365 principles in two separate test holes in early November 2017. An average soil infiltration rate of 5.8575×10^{-6} m/s was obtained, to which a factor of safety of 2.5 has been applied.

A shallow geocellular soakaway has been designed, 10.5sq.m in area x 0.4m deep, which will be suitable to drain the new extensions (hatched) to the dwelling without flooding on a 1 in 100 year rainfall event + 30% climate change addition.

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

-	Original	RTFC	14.11.17
Rev.	Description	Drn.	Date

Project	14 Gladstone Road Yapton West Sussex
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Client	Mr and Mrs Connington
Drawing Title	Surface Water Drainage

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Scale	As shown
At original	A3
Drawing Number	1756/D1.1
Revision	-