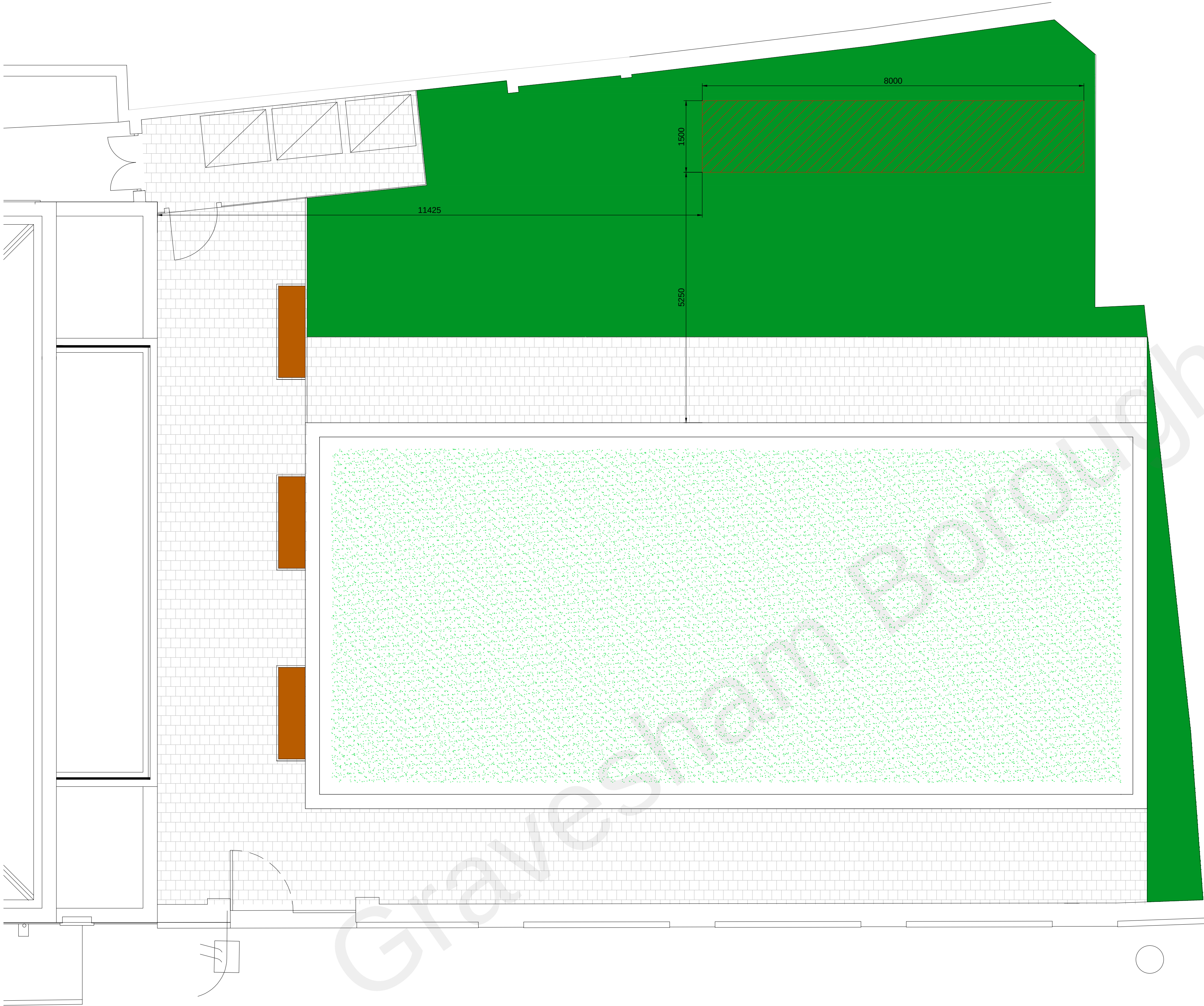
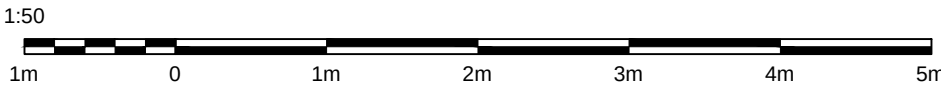




Soakaway (red hatched)
Soakaway to be constructed of Aquicell Eco crates wrapped in geotextile permeable membrane as manufacturers guidance and connected to the surface water drainage system.
Soakaway to be fully constructed by the developer prior to occupation of any houses.

Permeable garden area(solid green)

Permeable paving (grey area)

Green, sedum roof (light green)

Rectangular Soakaway

Parameters | Area to be drained | Design rainfall event | Results

Geometry

Width (m)

1.5

Length (m)

8

Soakaway base area (m2)

12

Porosity

0.25

Infiltration coefficient (m/s)

0.00001

Area to be drained (m2)

127.7

Factor of safety

3

Rainfall intensity factors

M5-60

20

Rainfall ratio r

0.35

Change

Climate change factor

1.1

FEH factor

1.0

Return Period (years)

10

Change

Results

Soakaway Minimum Height (m)
(Maximum water depth)

1.320

Time for Half-emptying (h)

5.43

To save the results of your calculations, click on the "Compare" button first, and then click on the "Save as" button (See "I" button for more information)

Update

Close

Compare

Save As

< Back

Green roof has not been included in calculation

CLIENT
Cleardon Developments Limited

PROJECT
Residential conversion at
The Caliboy, Harmer Street, Gravesend

DRAWING TITLE
Soakaway Plan

SCALE
1:50 @ A1

DRAWN
JB

DATE
05/07/21

DRG NO.
19001-17

REVISION
S1

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