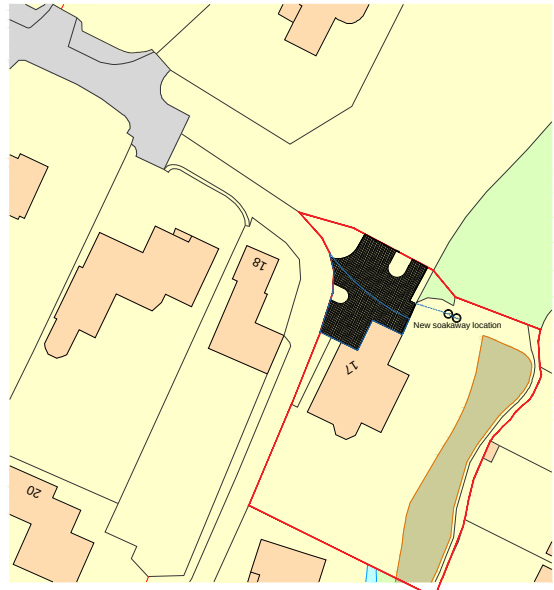
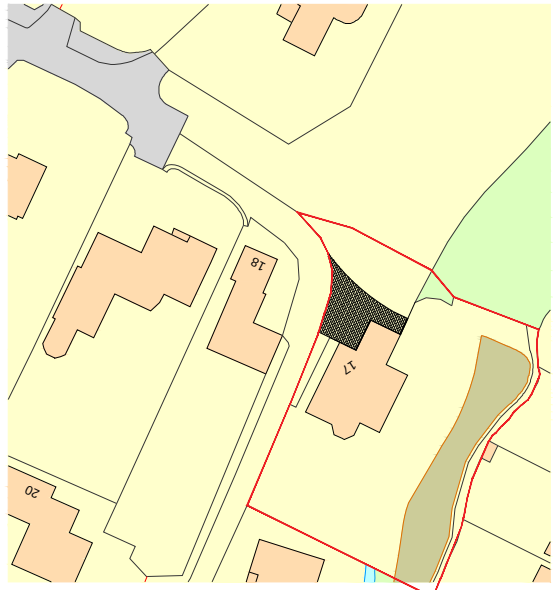




Previous driveway area - 96.5 Sq M
Ordnance Survey, (c) Crown Copyright 2019. All rights reserved. Licence number 100022432



Installed driveway area - 180 Sq M with additional remedial soakaway.
Ordnance Survey, (c) Crown Copyright 2019. All rights reserved. Licence number 100022432

Driveway soakaway calculation.

Minimum Requirement for additional area.

Previous driveway area - 96.5 Sq M
Installed driveway area - 180 Sq M
Additional/ Increased driveway area - 83.5 Sq M
Rainfall - 0.040
 $83.5 \text{ sqm} \times 0.040 = 3.34 \text{ m}^3$

Using 1.2m diameter ring soakaway per 1m depth
 $11/2 \times 1.0 = 11 \times 0.62 = 1.13 \text{ m}^3$
No. of soak-aways = $3.34/1.13 = 2.95$

Therefore provide 3 soakaway 1.2m diameter minimum 1m depth below drain invert.

Requirement for whole driveway area.

Installed driveway area - 180 Sq M
Rainfall - 0.040
 $180 \text{ sqm} \times 0.040 = 7.2 \text{ m}^3$

Using 1.2m diameter ring soakaway per 1m depth
 $11/2 \times 1.0 = 11 \times 0.62 = 1.13 \text{ m}^3$
No. of soak-aways = $7.2/1.13 = 6.3$

Therefore provide 6 soakaway 1.2m diameter minimum 1m depth below drain invert.

Soakaways to be minimum 5 meters from all buildings and 2.5 meters from all boundaries. Ensure sufficiently away from tree canopy to prevent damage to neighbouring trees.

1200mm dia 1 x 3 metre deep rings surface rainwater soak away.

Soakway to be positioned in the lower level rear garden within the grass area. This will connect into the existing slot drain at the lower edge of the driveway and connect into this proposed soakaway.

Post installation of spakaway. Area effected by works to be turfed.

General Observation for retrospective planning.

The car parking hard standing has increased its area over a previous grass verge. The client has undertaken the works as the road is not suitable for visitor parking. The renewed driveway discharges into an aco drain at the base of the driveway. The proposal to create a sustainable draining solution is to accommodate a new soak-away in the rear garden to capture the entirety of the driveway. This we see is an improvement over the previous hard standing as we propose to have the whole area captured via a sustainable soakaway.