



Proposed Impermeable Area - 860m² Scale 1:1000

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Status			
No.	Revision	Date	Drwn

Drainage Strategy

NPPF guidelines require that surface water arising from a developed site should as far as practicable be managed in a sustainable manner to mimic the surface water flows arising from the site prior to development.

Under the SUDS Hierarchy the first point of discharge is via infiltration. A Percolation Test was carried out by Dart Engineers on the 7th March and the results show that soakaways will not be viable on this site.

The second point of discharge is watercourse which there is one abutting the site boundary. It is our proposal to connect to this subject to agreement with the LLFA

Surface Water:

A flow restriction of 8.3l/s has been set from brownfield rates as the existing building discharged into the watercourse

$860m^2/3600 \times 50 = 11.9l/s$ a 70% betterment = 8.3l/s

This will be restricted using a 125mm Hydrobrake

The proposed impermeable area is 860m²

Based on a flow restriction of 8.3l/s and modelling using Micro Drainage software the attenuation requirement for a peak return period of 1 in 100year plus 45% climate change is **120m³**.

Attenuation for the proposed impermeable area of 860m² to be provided via attenuation crates measuring 7x10x1.6m.

Surface water from the proposed new site will connect into the existing watercourse abutting site, a new headwall will be formed.

Foul Water

Foul Water to connect unrestricted to a new treatment tank and then discharge to the existing watercourse subject to IDB/LLFA approval

Maintenance

The site is to remain private and the owners of the site will be responsible for the maintenance and management of the sewers, please see Maintenance Schedule for list of actions to be undertaken.

Key

- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Existing Watercourse
- Flood Exceedance Routing

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