

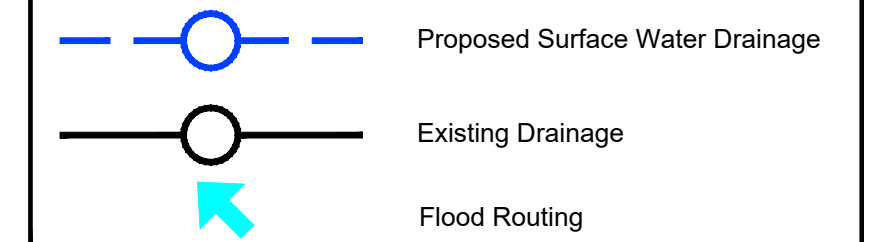
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Notes:

1. This drawing is to be read in conjunction with all relevant architect's and engineer's drawings.
2. It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Key



Drainage Strategy

The site is located within flood zone 3 with a high risk of flooding from rivers or the sea and is less than 1 hectare, therefore a site specific flood risk assessment is required. Please see Topping Engineers Report for more details.

Under SuDs guidance the first point of discharge for surface water is percolation via soakaway. Due to the flood zone it is assumed that infiltration is not viable in this instance.

The existing impermeable area of the site is 275m² which discharges into the existing watercourse at the eastern boundary of the site, and has an existing surface water run off rate of 3.8l/s. for the 1in1 year storm. Therefore we propose a 30% reduction from existing run off rates, for the 1in100Yr + 30% climate change from the site to be restricted to 2.7l/s.

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.

Surface Water:

Flow restriction 2.7l/s

The proposed impermeable area is 275m². Based on a flow restriction of 9.8l/s and modelling using Micro Drainage software the attenuation requirement for a peak return period of 1 in 100year plus 30% climate change is **9.2m³**.

Attenuation to be provided via **GEO-CELLULAR TANK 3.0x5.0x0.8m DEEP WITH 95% VOID RATIO**. The flows will be attenuated using a 87mm Hydrobrake, with product code - MD-SHE-0087-2700-0400-2700.

This connection will be subject to an agreement with the IDB/LLFA.

Drainage Strategy - Scale (1:500)



P1	FIRST ISSUE			04.04.22	TA
No.		Revision		Date	Drawn
Status Preliminary					
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Client					
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Donaldson's Vets					
Drawing title					
Drainage Strategy					
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