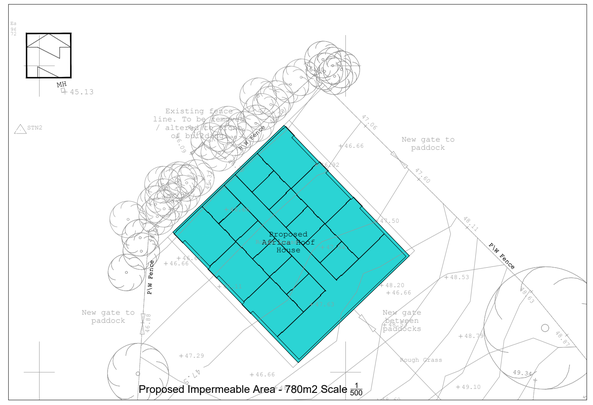
Proposed Drainage Strategy - Scale 1/1000



Proposed Impermeable Area - 780m2 Scale 1/500

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Status

No.	Revision	Date	Drwn

Drainage Strategy Hoof House

The site is located within flood zone 1 with a low risk of flooding from rivers or the sea, therefore a site specific flood risk assessment is not required

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 and the results show soakaways are not viable on this site

The second point of discharge is via Watercourse which there is to the west of the Hoof House

Surface Water:

We are proposing to discharge at 0.5l/s

Using this rate and an impermeable area of 780m^2 the required volume of storage for the 1 in 100 Year + 40% CC Storm is 40m^3 this will be achieved using an attenuation basin with 20m2 base and $\frac{1}{3}$ sloped sides with a 1m depth

The flows will be restricted using a 31mm Hydrobrake and then discharge to the existing watercourse White Mans Dam subject to confirmation with the IDB/LLFA

Foul Water:

Foul water form site to be stored in a 15000l Effluent Holding Tank due to the treatment tank not being able to process animal waste subject to EA approval

Maintenance

The site is to remain private and site owner 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

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PROJECT
AFRICAN HOOF HOUSE

DRAWING TITLE
DRAINAGE STRATEGY

Drawn	Chkd	Date	Scale
RT	AD	02.10.23	AS SHOWN
Sheet Size	Drawing No.		Revision
A1	23328-DR-C-0102		P5