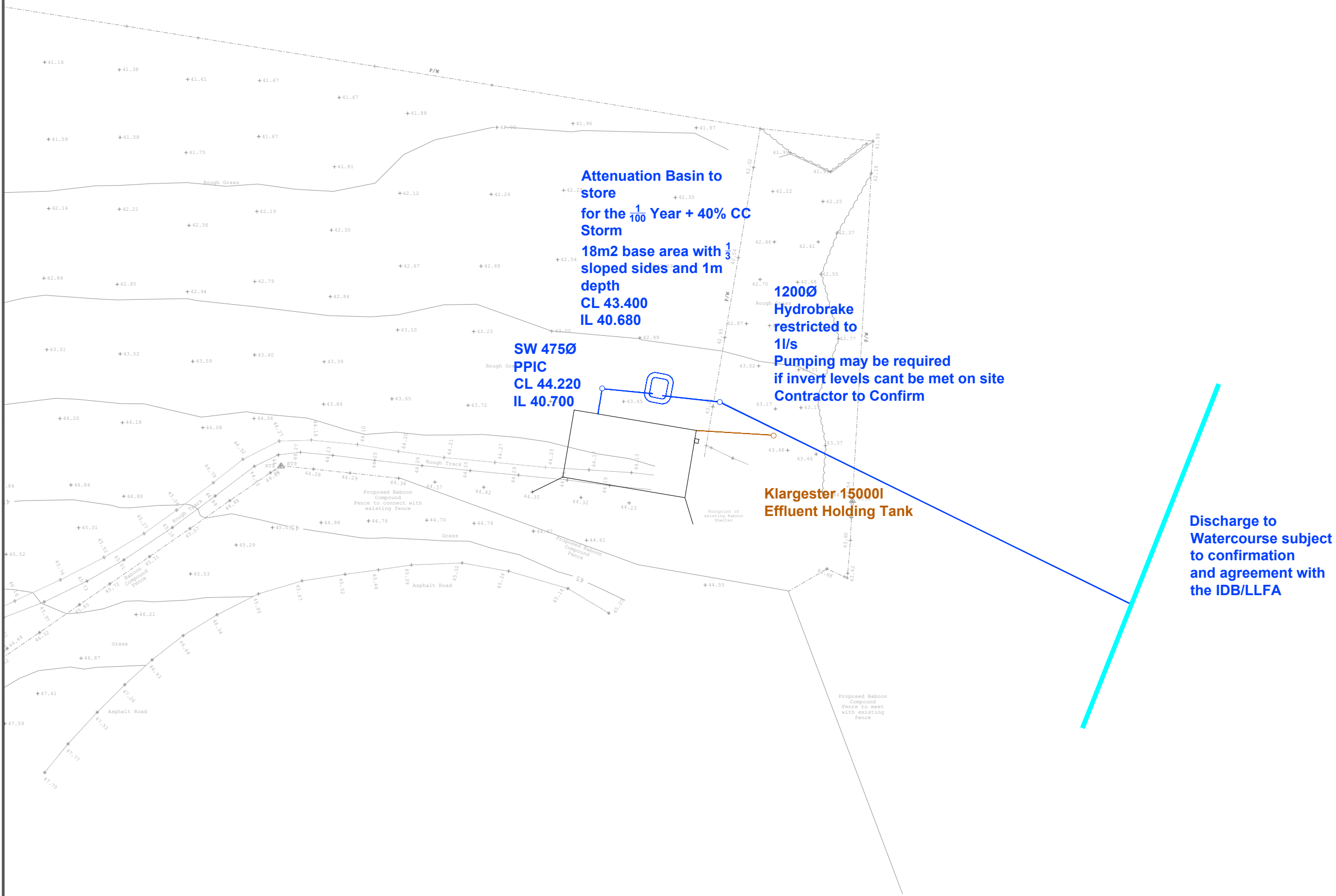


Proposed Drainage Strategy - Scale 1/1000



Drainage Strategy Baboon 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 a positive connection on site

Surface Water:

We are proposing to discharge at 1l/s to prevent blockages

Using this rate and an impermeable area of 495m² the required volume of storage for the 1 in 100 Year + 40% CC Storm is 24m³ this will be achieved using an attenuation basin measuring 18m2 with 1/3 sloped sides at 1m depth

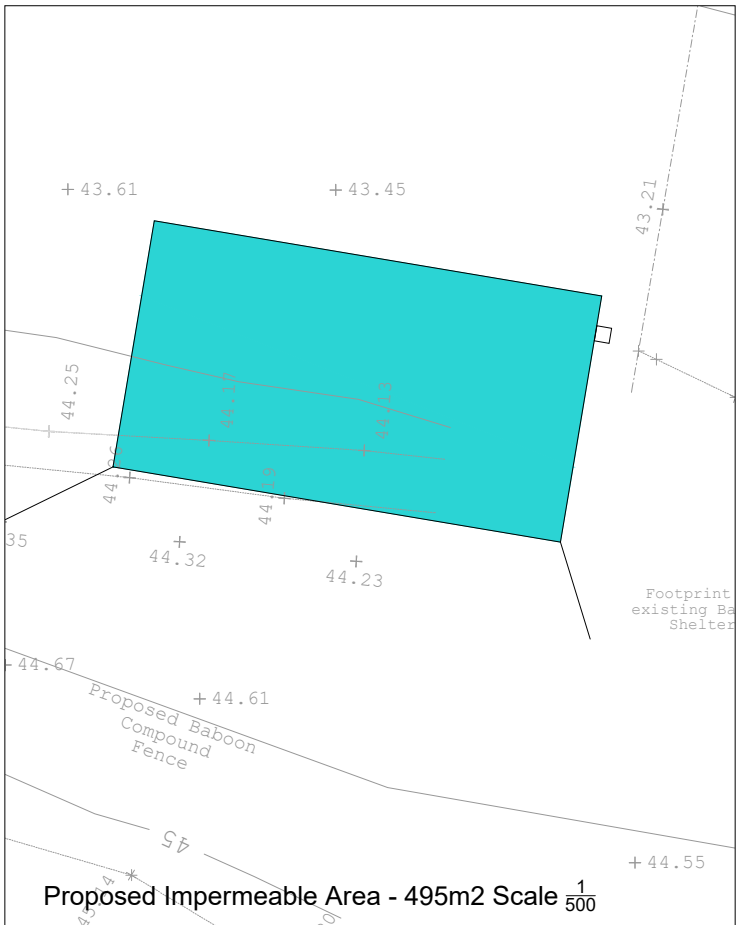
The flows will be restricted using a Hydrobrake and then discharge to the existing watercourse on site subject to confirmation with the IDB/LLFA

Foul Water

Foul water from site to be stored in a Klargester 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.



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Status

No.

Revision

Date

Drwn

Key

- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Existing Watercourse



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KNOWSLEY SAFARI PARK

PROJECT

BABOON HOUSE

DRAWING TITLE

DRAINAGE STRATEGY

Drawn

RT

Chkd

AD

Date

02.10.23

Scale

AS SHOWN

Sheet Size

A1

Drawing No.

23328-DR-C-0103

Revision

P3