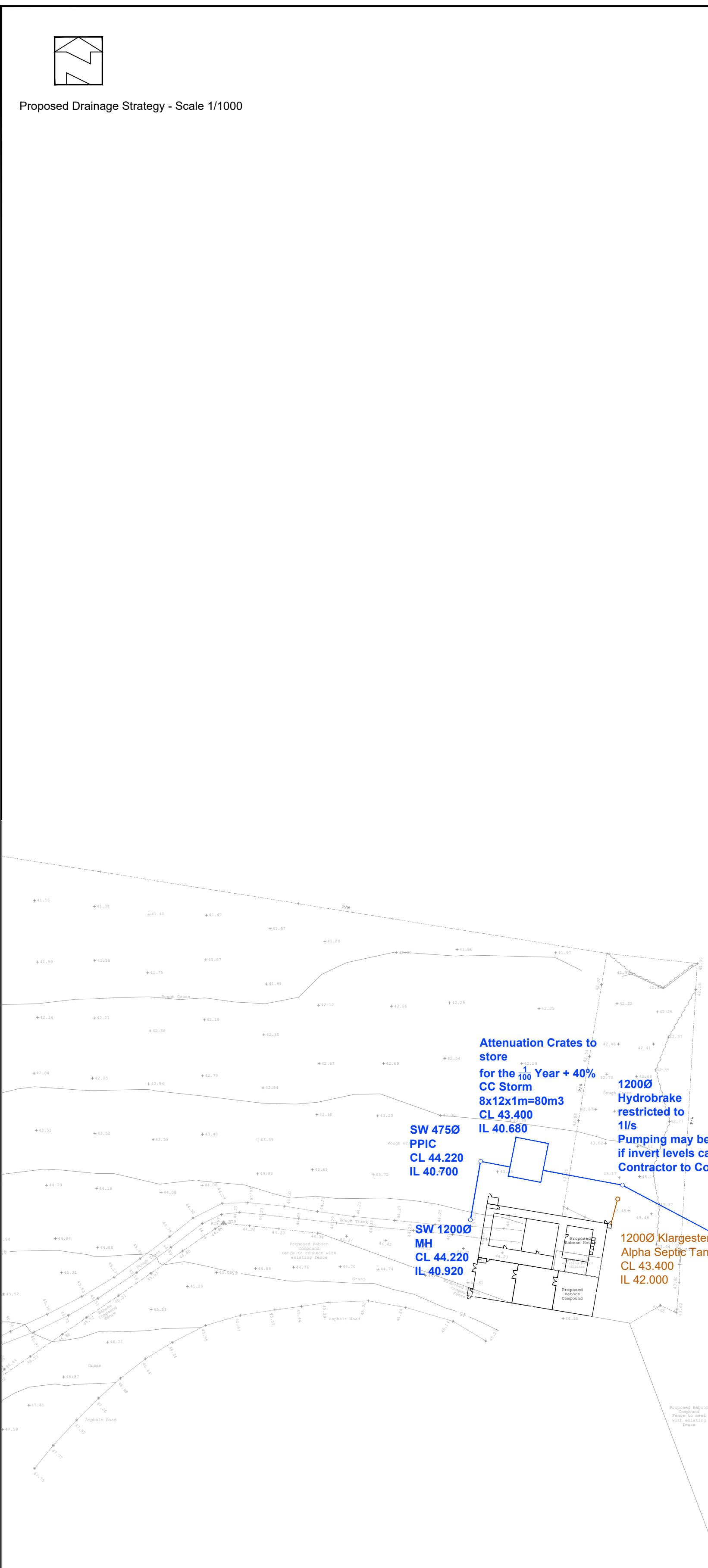


Proposed Drainage Strategy - Scale 1/1000



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 1000m² the required volume of storage for the 1 in 100 Year + 40% CC Storm is 80m³ this will be achieved using storage crates measuring 8x10x1m deep

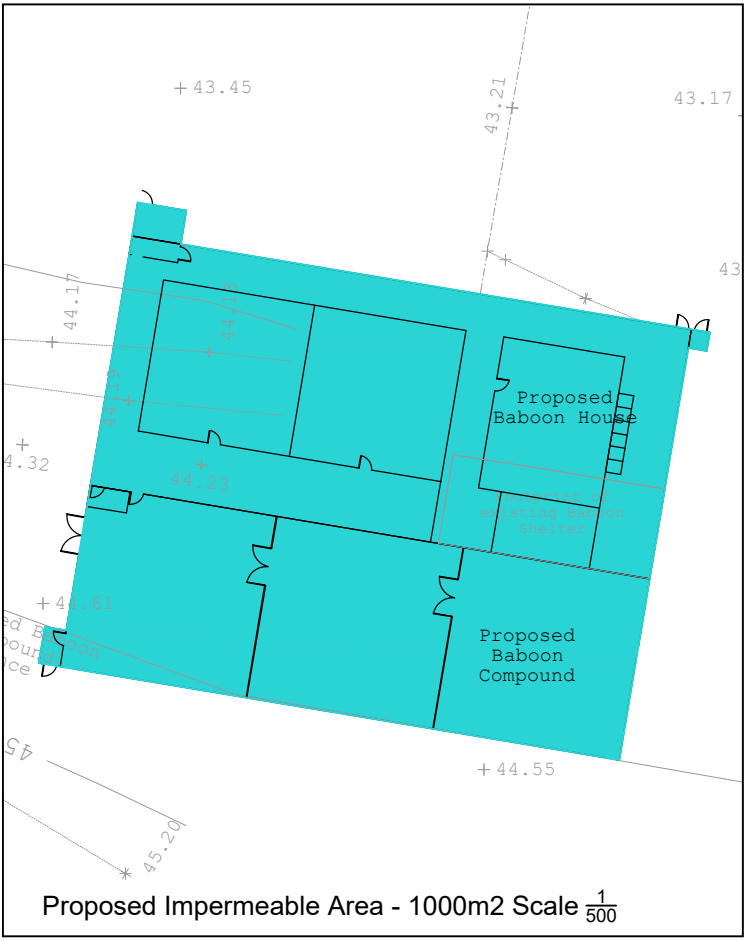
The flows will be restricted using a Hydrobrake and then discharge to the existing watercourse on site subject to confirmation with the IDB/LLFA

Foul Water

Foul water form site to be stored in a Klargester Sigma Septic 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.



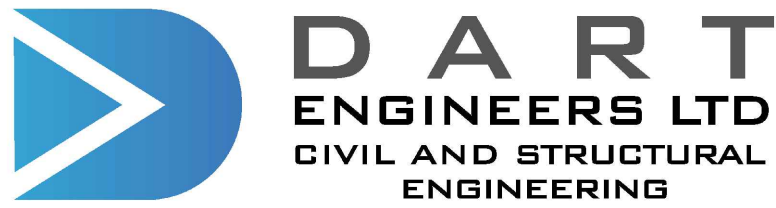
This drawing is copyright of DART Engineers Ltd and must not be copied or reproduced in any way without written consent.

DO NOT SCALE OFF THIS DRAWING

Status			
No.	Revision	Date	Drwn

Key

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



CONTACT e: andy@dart-engineers.com
e: robt@dart-engineers.com
m: 07725281902
w: www.dart-engineers.com

CLIENT 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	P1		