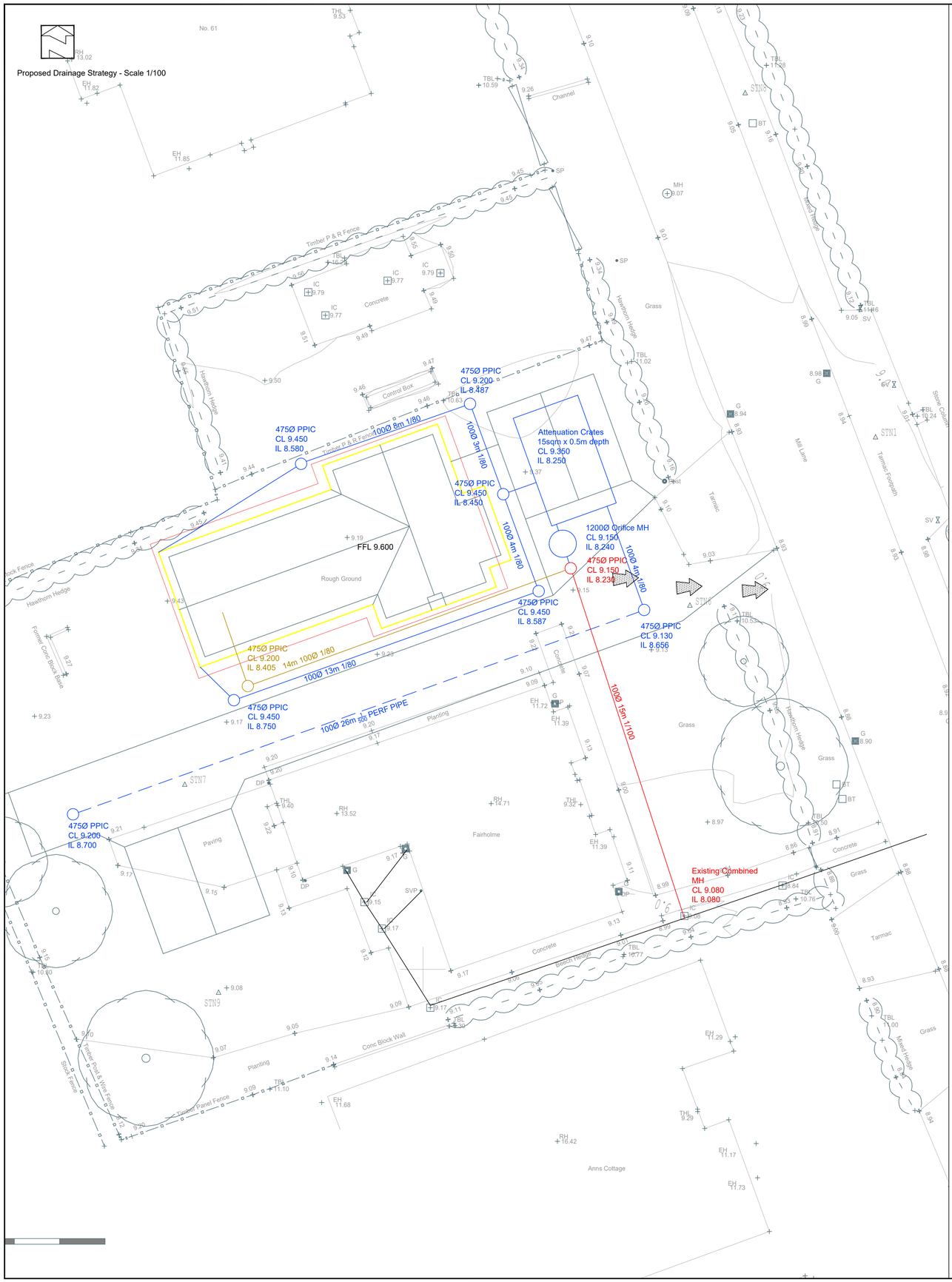
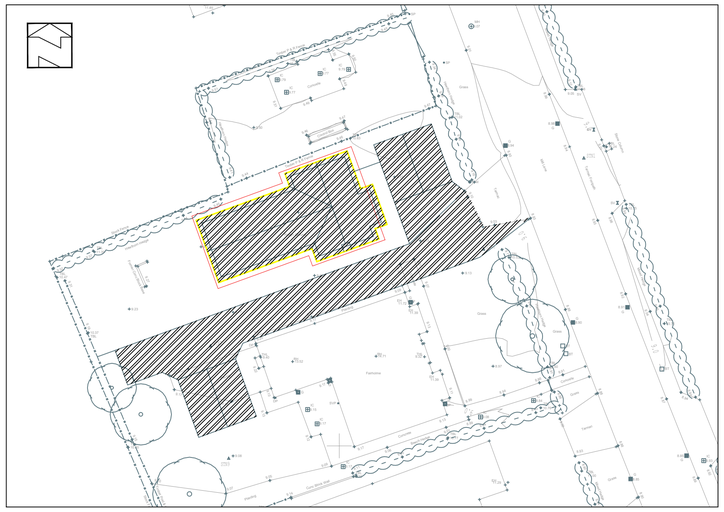
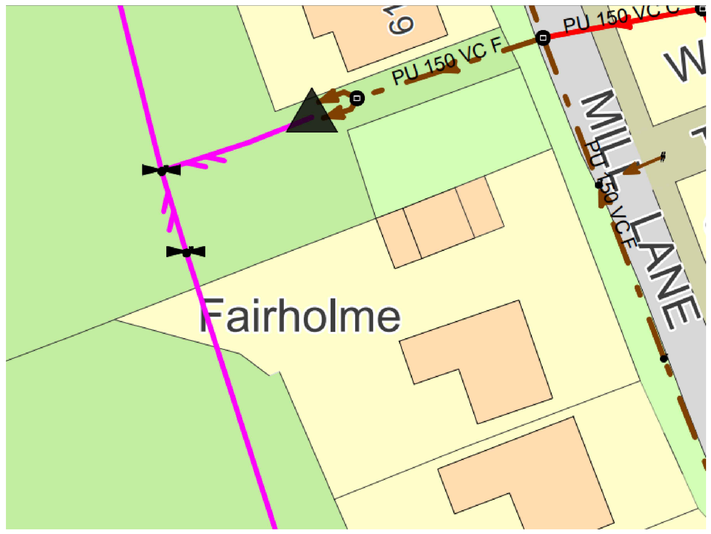
Proposed Drainage Strategy - Scale 1/100





Proposed Impermeable Area - 280m2 Scale 1/250



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

Drainage Strategy

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 isnt 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 and the results show soakaways are not viable on this site

The second point of discharge is via Watercourse which there are none in the site boundary

The third point of discharge is sewer which there are existing combined sewers on site

Surface Water:

COYC maximum discharge rate is 0.5l/s

Using this rate rate and an impermeable area of 280m^2 inc 10% Urban Creep the required volume of storage for the 1 in 100 Year + 40% CC Storm is 13m^3 this will be achieved using attenuation Crates measuring 15sqm x 0.5m depth for a total of 7.5m3 and 150m2 of Sub-base storage at 350mm depth and 30% Void Ratio

This will be restricted using a 16mm Orifice Plate

Flows will be directed to the existing combined sewer on site subject to confirmation with COYC

Foul Water

Foul Water to discharge to the existing combined sewer on site

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 Combined Sewer
- Flood Exceedance Routing
- Proposed Combined Sewer

DART ENGINEERS LTD
CIVIL AND STRUCTURAL ENGINEERING

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

CLIENT
M HUTCHINSON

PROJECT
FAIRHOLME
ACASTER MALBIS

DRAWING TITLE
DRAINAGE STRATEGY

Drawn	Chkd	Date	Scale
RT	AD	05.01.23	1/100
Sheet Size	Drawing No.		Revision
A1	23626-DR-C-0100		P2