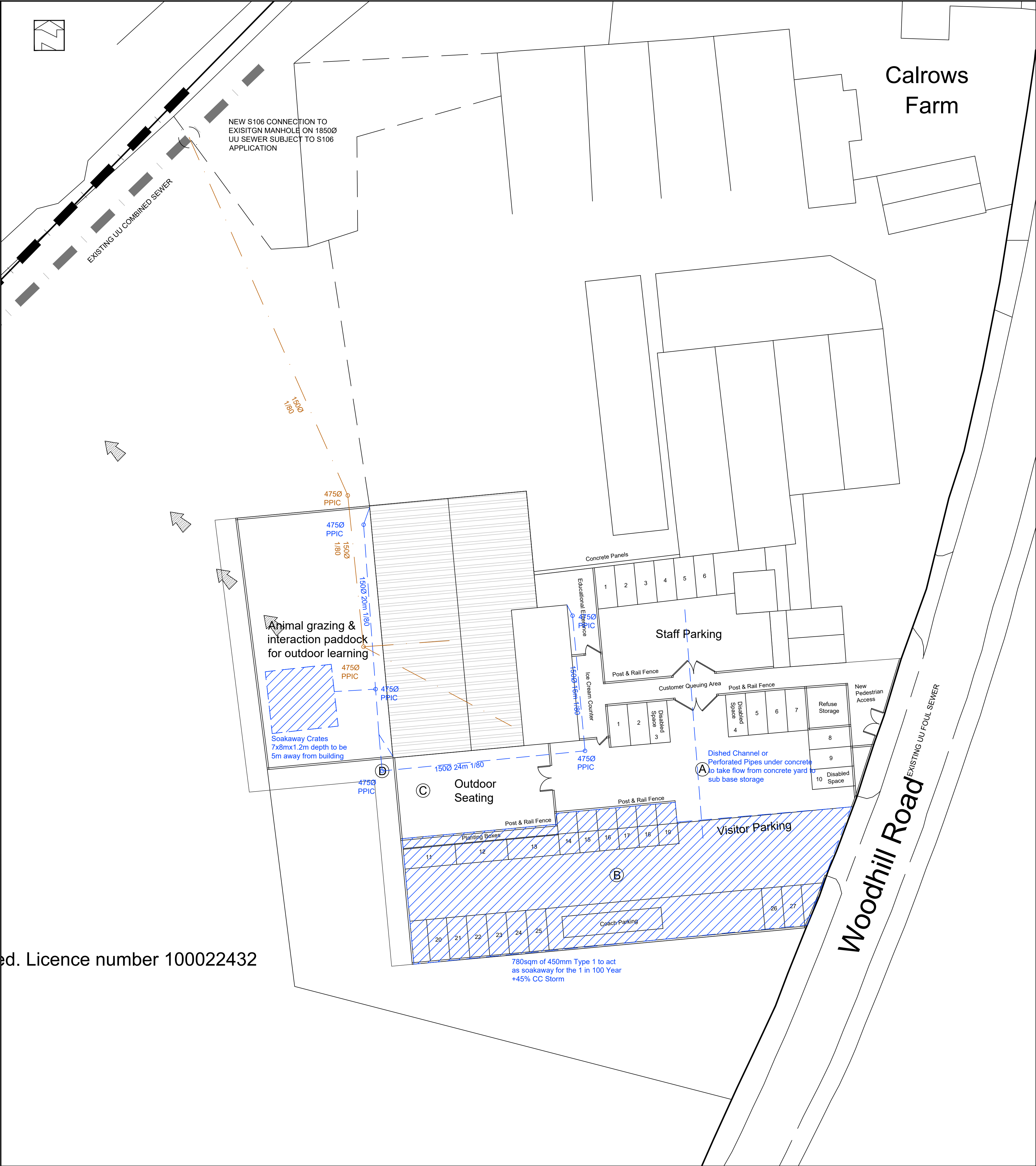
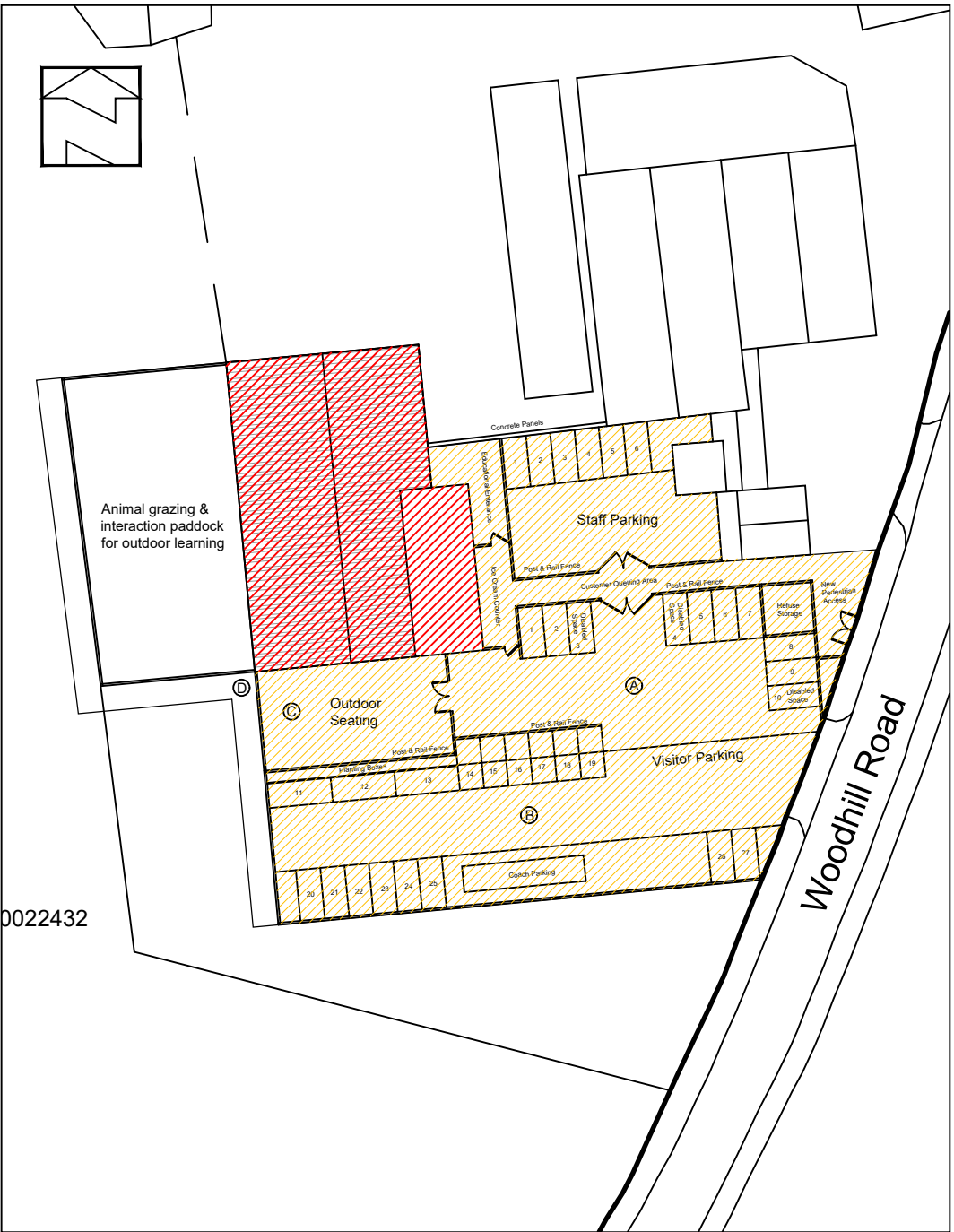




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Proposed Impermeable Area -  
Building 650m2 inc 10% Urban Creep  
Car Park 1920m2

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| 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 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 which shows that percolation is viable please see Dart Engineers report

The second point of discharge is watercourse which there is one abutting the site boundary

Surface Water:

A flow restriction of 0.02809 m/hr has been set by the percolation test

Building

The proposed impermeable area is 650m<sup>2</sup> including 10% Urban Creep. Based on a flow restriction of .02809m/hr and modelling using Flow software the attenuation requirement for a peak return period of 1 in 100year plus 45% climate change is **65m<sup>3</sup>**.

Attenuation for the proposed impermeable area of **650m<sup>2</sup>** to be provided via ATTENUATION CRATES measuring **8x7mx1.2m** depth with 95% porosity

These soakaway crates need to be situated 5m from any building

Car Park

The proposed impermeable area is 1920m<sup>2</sup>. Based on a flow restriction of .02809m/hr and modelling using Flow software the attenuation requirement for a peak return period of 1 in 100 year plus 45% climate change is **100m<sup>3</sup>**.

Attenuation for the proposed impermeable area of **1920m<sup>2</sup>** to be provided via Sub-Base Storage underneath the visitor parking area, this has an area of 780m<sup>2</sup> and using 450mm Type 1 Sub-Base with 30% Void Ratio we can achieve the storage requirements

Drainage from the concrete staff parking will be channelled to the sub base of the visitor parking

Please refer to Dart Engineers Flow Calculations

Foul Water

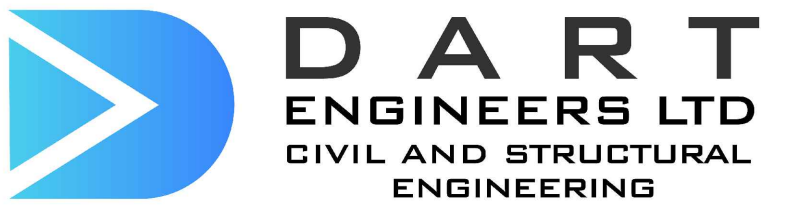
Foul Water to discharge via gravity to new S106 connection into existing UU combined sewer subject to 106 agreement.

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 UU Combined Sewer
- Existing Watercourse
- Flood Exceedance Routing



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CLIENT JASON ENTWISTLE

PROJECT HIGHER WOODHILL FARM

DRAWING TITLE DRAINAGE STRATEGY

|            |    |             |                 |          |          |       |       |
|------------|----|-------------|-----------------|----------|----------|-------|-------|
| Drawn      | RT | Chkd        | AD              | Date     | 13.12.24 | Scale | 1/100 |
| Sheet Size | A1 | Drawing No. | 24644-DR-C-0100 | Revision |          |       | P3    |