Sustainable Surface Water Drainage Strategy.

1. Introduction

This document outlines the proposed **surface water drainage strategy** for the development of **three camping pods and one utility hut**. The strategy has been prepared in accordance with the **Non-Statutory Technical Standards for Sustainable Drainage Systems** and relevant national planning guidance.

The aim is to ensure that surface water generated by the development is managed sustainably and does not increase flood risk on or off site.

2. Drainage Hierarchy

In accordance with the sustainable drainage hierarchy, surface water will be managed using the following approach:

1. **Infiltration to ground where feasible**
2. **Discharge to a watercourse – clean water only**

For this development, surface water will be managed through **infiltration and on-site sustainable drainage measures**.

3. Proposed Drainage System

The proposed drainage strategy will include:

- **Permeable gravel surfaces** for parking and access areas
- **Soakaway drainage systems** to manage roof runoff
- **Natural infiltration to surrounding ground**

Roof water from the camping pods and utility building will be directed to **soakaway crates or infiltration trenches** located within the site.

4. Surface Water Storage

On-site storage will be provided through:

- **Soakaways**
- **Permeable surfaces**
- **Ground infiltration**

These measures will reduce the impact of rainfall and prevent rapid discharge of water from the site.

5. Restricted Discharge

Surface water discharge from the development will be **restricted to greenfield runoff rates** to prevent increased flood risk.

6. Climate Change Allowance

The drainage system will be designed to accommodate **future climate change rainfall allowances**, ensuring sufficient capacity during heavy rainfall periods.

7. Above-Ground SuDS Components

Where possible, the development will incorporate **multifunctional SuDS features**, including:

- permeable surfaces
- landscaped areas
- infiltration zones

These features will also contribute to **biodiversity and site amenity**.

8. Maintenance

The drainage system will be maintained by Stuart Hartley, Hartley's Huts.

Maintenance will include:

- regular inspection of soakaways
- clearing debris from drainage inlets
- maintaining permeable surfaces
- ensuring infiltration areas remain free draining

Maintenance inspections will be undertaken **at least annually and after periods of high rainfall**.

9. Foul Water Drainage

Foul water from the camping pods will be disposed of via **a separate waste water treatment plant** in accordance with Building Regulations and Environment Agency guidance.

10. Summary

Surface water is managed **within the site boundary**.

The development uses **infiltration-based Sustainable Drainage Systems (SuDS)**.

Permeable materials reduce runoff and promote groundwater recharge.

Drainage will be **maintained for the lifetime of the development**.