RWP AND SVP/FOUL CONNECTIONS ARE SUBJECT TO FINAL CONFIRMATION BY ARCHITECT

Key

- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Existing Sewer
- Overland Flood Route

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: PRELIMINARY

No.	Revision	Date	Drwn
P1	FIRST REVISION	06.03.26	JS
P2	UPDATED TO SUIT NEW SITE LAYOUT	12.03.26	JS

Drainage Strategy

Flood Risk and Site Context
The proposed development site is located within Flood Zone 1, representing a low risk of flooding from rivers or the sea. As the total site area is less than 1 hectare, a formal, site-specific Flood Risk Assessment (FRA) is not required for this development.

Surface Water Drainage Strategy
In accordance with National Planning Policy Framework (NPPF) guidelines, surface water arising from the developed site will be managed in a sustainable manner to mimic pre-development greenfield runoff flows as far as practicable.

Discharge Destination: Surface water from the proposed site will outfall into the adjacent watercourse. This connection will be subject to standard consent from the Lead Local Flood Authority (LLFA).

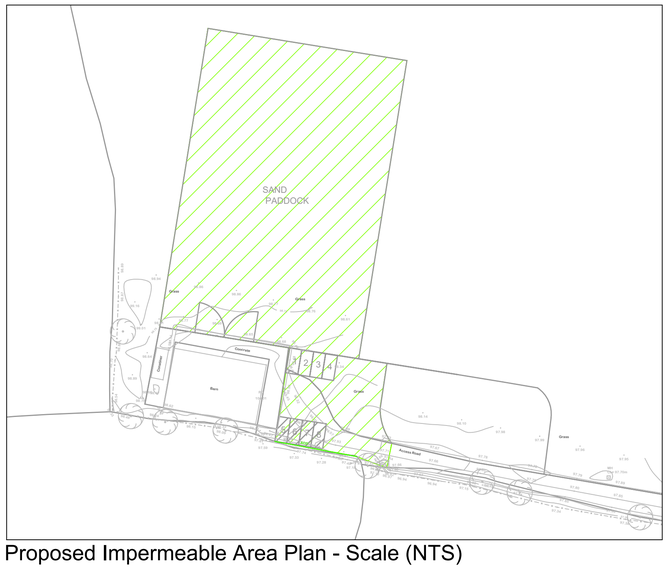
Discharge Rate and Flow Control: The existing site is greenfield. The surface water discharge rate for the site is proposed to be restricted to 2.7l/s. In accordance with the guidance set out in the CIRIA C753 SuDS Manual, a minimum orifice diameter of 75mm has been adopted to mitigate the risk of blockages from debris and sediment. This proposed rate strikes a necessary balance between providing stringent flow attenuation and ensuring the long-term operational resilience of the drainage system.

Flow Control Device: Hydro-Brake Optimum (or equivalent)

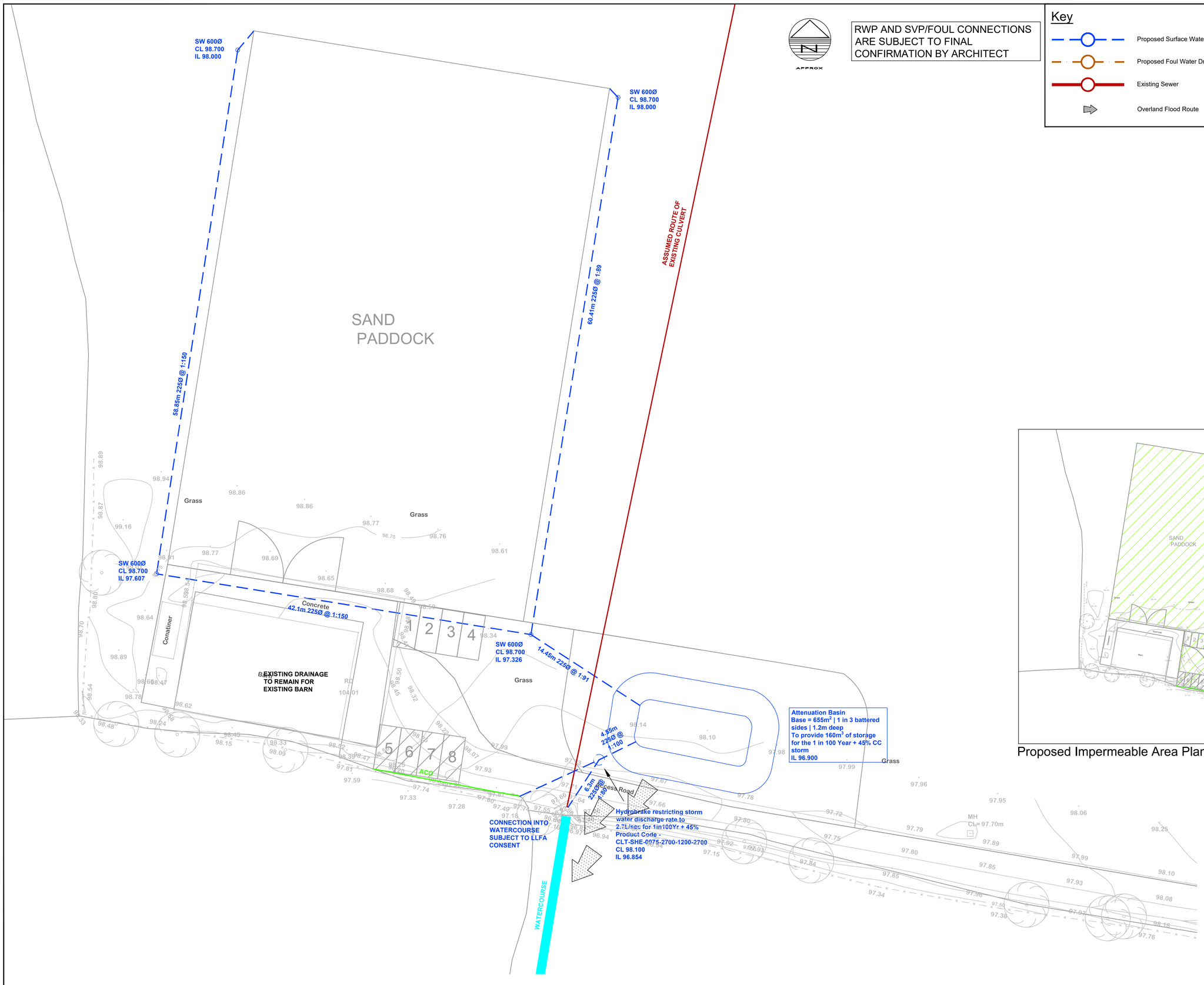
Product Code: CTL-SHE-0075-2700-1200-2700

Attenuation Storage: The proposed impermeable area is 2790m².
Based on the 2.7 l/s flow restriction, hydraulic modelling conducted using Causeway Flow software dictates an attenuation requirement of 160.0 m³ to accommodate the 1 in 100-year storm event plus a 45% allowance for climate change.

This attenuation will be provided via an Attenuation Basin with a base of 68m², depth of 1.2m, providing 160.0 m³ of storage.



Proposed Impermeable Area Plan - Scale (NTS)



Drainage Strategy - Scale (1:200)

DART ENGINEERS LTD
CIVIL AND STRUCTURAL ENGINEERING

CONTACT
e: andy@dart-engineers.com
e: rob@dart-engineers.com
t: 01937 339827
w: www.dart-engineers.com

CLIENT: John Eccles

PROJECT: Hothersall Lane, Hothersall

DRAWING TITLE: Drainage Strategy

Drawn	Chkd	Date	Scale
JS	AD	March 2026	As Shown
Sheet Size	Drawing No.		Revision
A1	26170-DR-C-0100		P2