

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.

Percolations Test was undertaken by Dart Engineers 3rd December 2025 and the trial pit was full of groundwater. As such it is assumed infiltration is not viable.

Surface Water:

The proposed impermeable area is 830m² inc 10% Urban Creep. A SW flow rate of 1l/s is proposed as the minimum SW flow rate.

Based on modelling using Causeway Flow software the attenuation requirement for a peak return period of 1 in 100 year plus 45% climate change is **62.97m³**.

Attenuation for the proposed impermeable area of **62.97m³** to be provided via ATTENUATION CRATES measuring **20x4.5x0.8m** with volume of 62.97m³.

SW will connect to watercourse to the west of site subject to Land Drainage Consent

Foul Water

Foul water from the proposed new site will connect into the existing YW combined sewer to the east of site.

Maintenance

The site is to remain private and home owners will be responsible for the maintenance and management of the sewers, please see Maintenance Schedule for list of actions to be undertaken.

Cellular Storage
20x4.5x0.80m depth =
62.97m³
To store for the
1 in 100 Year + 45% CC
CL 70.000
IL 68.550

NEW PCC HEADWALL TO
WATERCOURSE
SUBJECT TO LAND
DRAINAGE CONSENT
IL 68.650

SW MH 4500
25mm ORIFICE PLATE
1l/s
800mm DESIGN HEAD
CL 70.000
IL 68.700

Drainage Strategy - Scale (1:200)



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

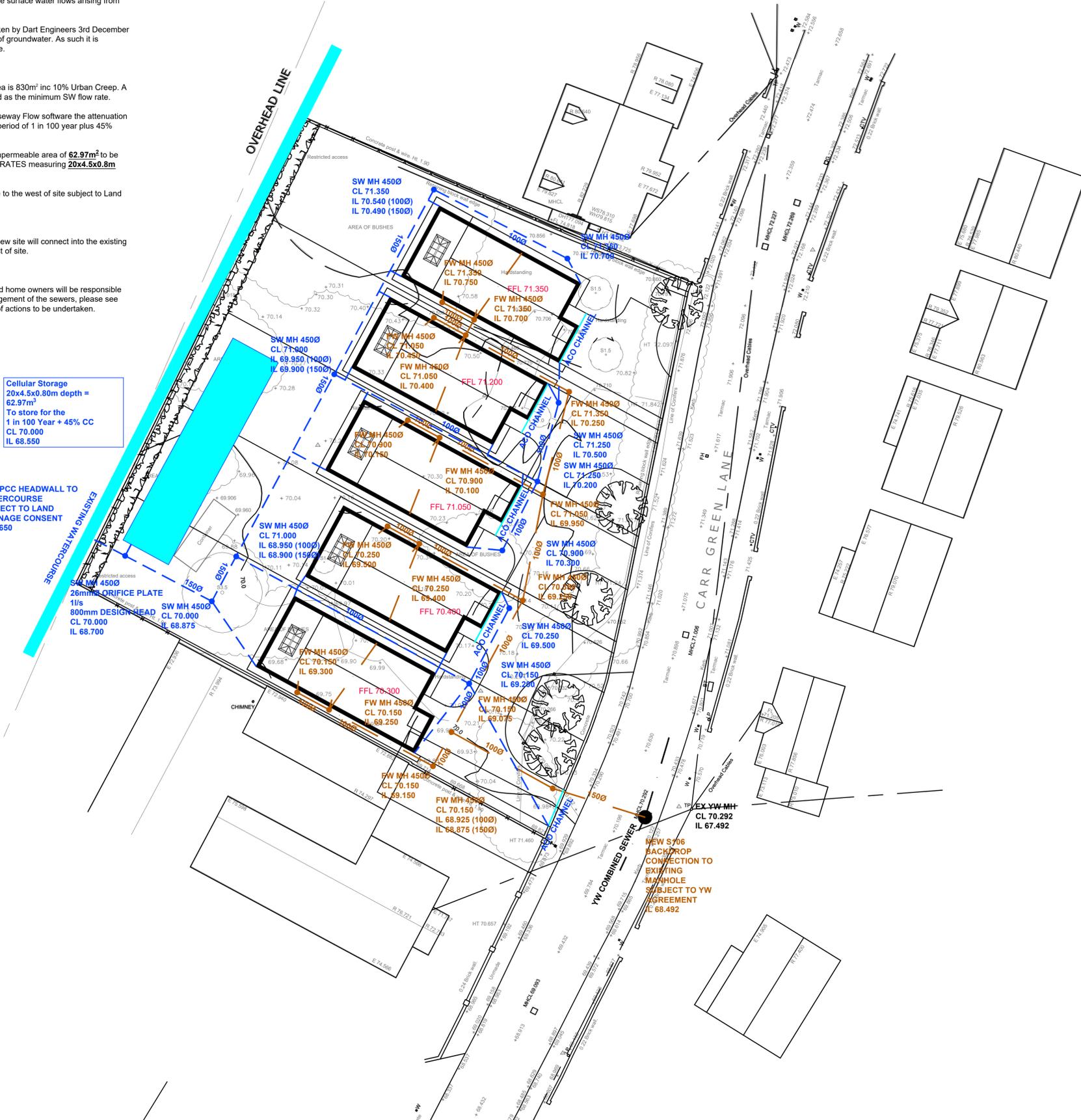
Key

- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Existing Sewer

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Status			
PRELIMINARY			
No.	Revision	Date	Drawn



Proposed Impermeable Area Plan - Scale (1:500)
845m²
930m² including 10% urban creep

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PROJECT
Carr Green Lane, Mapplewell

DRAWING TITLE
Drainage Strategy

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