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

APPROX

Key

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

1. Do not scale off this drawing
2. This Drawing is for planning purposes only and should not be used as a construction drawing

Status: PRELIMINARY

No.	Revision	Date	Drwn

NEW HEADWALL SW OUTFALL TO WATERCOURSE SUBJECT TO LAND DRAINAGE CONSENT FROM LLFA/IDB.
IL 96.50

EXISTING WATERCOURSE

18m 100Ø 1:80

98

SDWA TTENUATION POND
29m2 BASE AREA
1:3 SIDES
145m2 TOP OF BANK
1.2m DEPTH
MAX WATER LEVEL 1in100 YEARS PLUS 45% 795mm
53.7m3 VOLUME
CL 98.000
INLET 97.80
IL 96.800

475Ø PPIC
22Ømm ORIFICE PLATE
1l/s
900mm DESIGN HEAD
CL 98.00
IL 96.75

5m 150Ø 1:80

5m 150Ø 1:80

475Ø PPIC
CL 98.50
IL 97.85

45m 150Ø 1:60

475Ø PPIC
CL 99.50
IL 98.40

475Ø PPIC
CL 99_50
IL 98.50

KLARGESTER BIODISC 6 PERSON OR SIMILAR APPROVED TO BE LOCATED 5m FROM BUILDINGS

16m 100Ø 1:80

475Ø PPIC
CL 99.85
IL 98.70

19m 150Ø 1:80

475Ø PPIC
CL 99.85
IL 98.98 (100Ø)
IL 98.93 (150Ø)

13m 100Ø 1:80

12m 100Ø 1:80

475Ø PPIC
CL 99.85
IL 98.90

475Ø PPIC
CL 99.85
IL 99.15

18m 100Ø 1:80

22m 100Ø 1:80

475Ø PPIC
CL 99.85
IL 98.90

475Ø PPIC
CL 99.85
IL 99.25

AREA FOR RESIDENTIAL DWELLING
625m2
IMPERMEBALOE AREA ALLOWANCE
50% 315m2

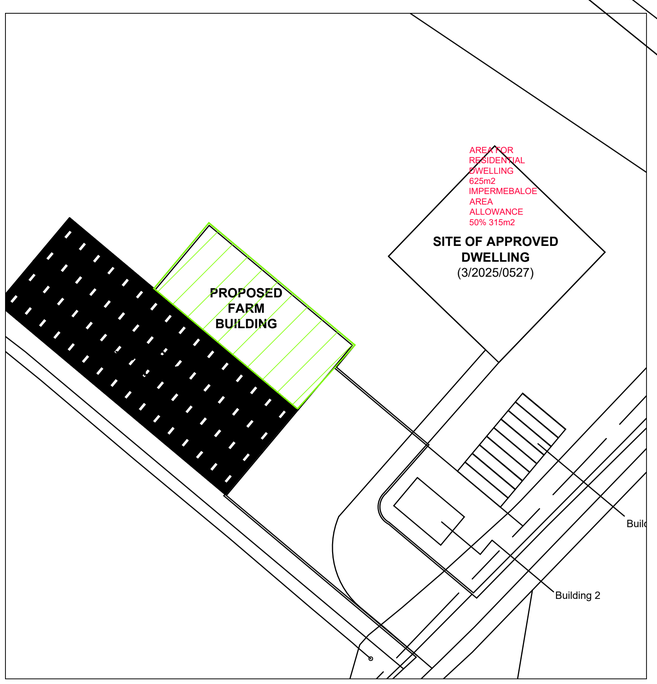
SITE OF APPROVED DWELLING
(3/2025/0527)

FFL 100.000

PROPOSED FARM BUILDING

FFL 99.500

EXISTING FARM BUILDINGS



Proposed Impermeable Area Plan - Scale (1:500) - 745m2

Drainage Strategy - Scale (1:250)

DDrainage Strategy

The site is located within Flood Zone 1 and is therefore considered to be at low risk of flooding from rivers and the sea. The proposed development area is less than 1 hectare and consequently a site-specific Flood Risk Assessment is not anticipated to be required.

Surface Water Drainage

BRE365 infiltration testing was undertaken on site on 22 June 2026. The testing demonstrated that infiltration drainage is not feasible due to negligible infiltration rates and the presence of groundwater/seepage within the trial pits. As a result, soakaways have been discounted as a viable means of surface water disposal.

In accordance with the drainage hierarchy, surface water will discharge to the existing watercourse located to the west of the site via a new headwall, subject to obtaining the necessary Land Drainage Consent from the Lead Local Flood Authority and/or Internal Drainage Board.

The proposed impermeable area draining to the system is approximately 315m², representing 50% of the approved residential dwelling area as shown on Drawing No. 25842-DR-C-0100.

Runoff will be attenuated within a proposed attenuation pond having:

Base area: 29m²
Maximum depth: 1.20m
Top of bank area: 145m²
Storage volume: 53.7m³
Maximum design water level: 0.795m above pond invert

Hydraulic modelling has been undertaken using Causeway Flow+ software. The attenuation pond provides sufficient storage for the 1 in 100 year storm event including 45% climate change allowance, with no flooding predicted within the system. The peak storage requirement is approximately 53.7m³.

Discharge to the watercourse will be restricted to 1.0 l/s by means of a 22mm diameter orifice plate located within the downstream flow control chamber.

Foul Water Drainage

Foul water drainage proposals are to be confirmed separately and are not included within this surface water drainage strategy. RWP and SVP/foul connections remain subject to final confirmation by the Architect and Building Control requirements.

Maintenance

The drainage system will remain private and the responsibility for inspection, maintenance and operation shall rest with the landowner. Regular maintenance shall include inspection of catchpits, flow control devices, pipework, headwall structures and vegetation management within the attenuation pond to ensure continued hydraulic performance.

Drainage Hierarchy / Outfall Justification
Infiltration drainage has been investigated through BRE365 testing undertaken on 22 June 2026 and has been found unsuitable.
No public surface water sewer is available for connection.
Surface water discharge to the adjacent watercourse is therefore proposed as the preferred and most sustainable solution in accordance with the drainage hierarchy.
Discharge will be restricted to 1.0 l/s with attenuation provided on site for the 1 in 100 year plus 45% climate change event.

DART ENGINEERS LTD
CIVIL AND STRUCTURAL ENGINEERING

CONTACT
e: andy@dart-engineers.com
e: rob@dart-engineers.com
t: 01837 339827
w: www.dart-engineers.com

CLIENT: Mr R Howarth

PROJECT: Whalley Road, Pendleton, Clitheroe

DRAWING TITLE: Drainage Strategy

Drawn	Chkd	Date	Scale
AD	RT	June 26	1/200

Sheet Size	Drawing No.	Revision
A1	25842-DR-C-0100	P1