Gamford Farm, Gamford Lane, Rossett

Infiltration Test Report

September 2026



Waterco DATRYS

Project Information	
Project:	Gamford Farm, Gamford Lane, Rossett
Report Title:	Infiltration Test Report
Client:	Urban Developments and Construction Ltd
Instruction:	The instruction to undertake this Infiltration Test Report was received from Mike Henderson of Calo Construction Services acting on behalf of the Client.
File Ref:	17879-Infiltration Test Report-01

Approval Record	
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Document History		
Revision	**Date**	**Comment**
01	17/09/2026	First issue

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Introduction

Waterco has been instructed to undertake infiltration testing and percolation testing in relation to a proposed residential development at Gamford Farm, Gamford Lane, Rossett, Wrexham, LL12 0EW.

The infiltration testing will establish soil permeability and will be used to inform suitable sustainable drainage measures to be used in the development. The percolation testing will be used to inform the size of a drainage field (to accommodate discharge from a package sewage treatment plant).

Site Overview

The site covers an area of approximately 1.48 hectares (ha) and is located at National Grid Reference (NGR): 337795, 357433. A location plan and an aerial image are included in Appendix A.

Online mapping (including Google Maps / Google Streetview imagery, accessed September 2026) shows that the site comprises agricultural land with associated access, farmhouse and outbuildings. The site is bordered by agricultural land to the north, east and west, and Gamford Lane to the south. Access to the site is provided from Gamford Lane.

Local Topography

Topographical levels to metres Above Ordnance Datum (m AOD) have been derived from a 1m resolution Natural Resources Wales (NRW) composite 'Light Detecting and Ranging' (LiDAR) Digital Terrain Model (DTM). A review of LiDAR data shows that the majority of the site is relatively flat with site levels ranging from 12.78m AOD in the south to 12.14m AOD in the north. A high point of 14.07m AOD is recorded in the south-eastern corner of the site. A LiDAR Plan is included as Appendix B.

Ground Conditions

Published Geology and Hydrogeology

The British Geological Survey (BGS) online mapping (1:50,000 scale) shows that the majority of the site is underlain by superficial deposits of Devensian Till, generally comprising diamicton. The northern extent of the site is underlain by River Terrace Deposits (undifferentiated) comprising sand and gravel. The superficial deposits are identified as being underlain by the Salop Formation consisting of mudstone, sandstone and conglomerate.

The geological mapping is available at a scale of 1:50,000 and as such may not be accurate on a site-specific basis.

According to NRW's Aquifer Designation data, obtained from the BGS GeoIndex online mapping (accessed September 2026), the superficial deposits and underlying Salop Formation are classified as Secondary A Aquifers. Secondary A Aquifers are *'permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers'.*

NRW's 'Source Protection Zones' data, obtained from DataMapWales (accessed September 2026) indicates that the site is located within Groundwater Source Protection Zone 3 (Total Catchment). This zone is defined as the total area needed to support the abstraction or discharge from the protected groundwater source.

Development Proposals

The proposed development is for the erection of a replacement dwelling (farmhouse replacement) and conversion of 4no. outbuildings to 4no. dwellings with associated driveways, an access road and soft landscaping. Proposed development plans are included in Appendix C.

Percolation Testing (Building Regulations Part H2)

Waterco undertook percolation testing on the 1st September 2026. The percolation testing was carried out in general accordance with Part H2 of the Building Regulations.

Four trial pits were excavated in accordance with Part H2 of the Building Regulations. The trial pit locations were selected based on the site layout, accessibility and health and safety requirements. A trial pit location plan together with a photographic record are included in Appendix D.

A 300mm long x 300mm wide x 300mm deep trial pit was excavated at the bottom of a 1m deep trial pit. The 300mm deep trial pit was filled, and the time taken for the water to fall from 225mm to 75mm (150mm depth) was recorded.

Results

A summary of the percolation testing is provided in Table 1.

Table 1 – Percolation Test Summary

Trial Pit	Description	Percolation Value (Vp) (s/mm)	Infiltration Rate
1	Three tests were undertaken within TP1. During the first test, the water level fell by 150mm over a period of 278 seconds. During the second test, the water level fell by 150mm over a period of 553 seconds. During the third test, the water level fell by 150mm over a period of 516 seconds.	Test 1: 1.85 Test 2: 3.7 Test 3: 3.4	Test 1: $1.8x10^{-3}$ m/s Test 2: $9.00x10^{-4}$ m/s Test 3: $9.80x10^{-4}$ m/s
2	Three tests were undertaken within TP2. During the first test, the water level fell by 150mm over a period of 342 seconds. During the second test, the water level fell by 150mm over a period of 378	Test 1: 2.28 Test 2: 2.5	Test 1: $1.46x10^{-3}$ m/s Test 2: $1.33x10^{-3}$ m/s

	seconds. During the third test, the water level fell by 150mm over a period of 703 seconds.	Test 3: 4.68	Test 3: $7.12x10^{-4}$ m/s
3	Three tests were undertaken within TP3. During the first test, the water level fell by 150mm over a period of 1400 seconds. During the second test, the water level fell by 150mm over a period of 1590 seconds. During the third test, the water level fell by 150mm over a period of 1392 seconds.	Test 1: 9.33 Test 2: 10.6 Test 3: 9.28	Test 1: $3.57x10^{-4}$ m/s Test 2: $3.14x10^{-4}$ m/s Test 3: $3.59x10^{-4}$ m/s
4	One test was undertaken within TP4. The trial pit was abandoned due to slow infiltration (no fall in water level from a fill depth of 300mm).	N/A	N/A

Approved Document H of the Building Regulations states that drainage field disposal should only be used when percolation tests indicate a minimum Vp value of 12 to ensure untreated effluent cannot percolate too rapidly into groundwater. As shown in Table 1, the highest (slowest) Vp value calculated was 10.6.

In accordance with Building Regulations, where the Vp value is below the minimum value (12s/mm) '*effective treatment is unlikely to take place within the drainage field. However, provided that an alternative form of secondary treatment is provided to treat effluent from the septic tanks, it may still be possible to discharge the treated effluent to a soakaway.'*

The Building Regulations guidance is specific to discharge from a septic tank. To provide suitable treatment prior to discharge to the ground, a package treatment plant with suitable treatment should be specified. This would include treatment plants with secondary and where required by NRW, tertiary treatment stages. Secondary treatment stages include aeration / biological breakdown. Tertiary treatment stages can include sand filters, coconut husk filters or UV disinfectant.

The percolation test results show that discharge to ground via a drainage field / soakaway is feasible subject to provision of suitable treatment in the upstream package treatment plant.

Infiltration Testing (BRE Digest 365)

Fieldworks

Waterco also undertook infiltration testing in general accordance with the BRE Digest 365 specification.

Five trial pits were excavated by the Client. A trial pit location plan together with a photographic record are included in Appendix C. The trial pit dimensions are provided in Table 2.

Table 2 – BRE 365 Trial Pit Dimensions

Trial Pit (TP)	Depth (m)	Width (m)	Length (m)
TP1	2.80	1.60	4.20
TP2	2.10	1.30	1.50
TP3	2.10	2.00	3.40
TP4	2.20	1.50	2.90
TP5	2.05	1.60	2.40

The weather conditions were dry during the testing period and water was provided from a water bowser.

The excavated arisings across the site generally consisted of clayey sand and gravel. The excavated arisings from TP3 contained Made Ground (concrete, tyres, plastic bags). The excavated arisings from TP4 and TP5 had a higher clay content (sandy clay).

Results

Infiltration testing was undertaken in Trial Pit 2 only. No infiltration tests were undertaken in TP1, TP3 and TP5 due to groundwater encountered at 1.8m.bgl, 2m.bgl and 1.9m.bgl, respectively. No infiltration tests were undertaken in TP4 based on the results of the percolation tests.

Table 3 – Infiltration Test Summary

Trial Pit (TP)	Results	Infiltration Rate
TP2	Three tests were undertaken within TP2. During the first test, the water level fell by 1.1m (from 1m.bgl to 2.1m.bgl) over a period of 21 minutes. During the second test, the water level fell by 900mm (from 1m.bgl to 1.9m.bgl) over a period of 38 minutes. During the third test, the water level fell by 690mm (from 1.15m.bgl to 1.84m.bgl) over a period of 73 minutes.	Test 1: 7.32×10^{-4} m/s Test 2: 1.32×10^{-4} m/s Test 3: 5.45×10^{-5} m/s

The infiltration rates obtained from TP2 and the percolation tests show that infiltration techniques are feasible within the sand and gravel deposits (all locations on site with the exception of TP4).

In accordance with G3.32 of the Statutory standards for sustainable drainage systems in Wales, there should be a minimum depth of unsaturated ground of 1m between the base of any infiltration system and the maximum likely groundwater level. Therefore, infiltration drainage techniques will be feasible on site where the depth of infiltration features are limited to approximately 0.8m.bgl, providing 1m clearance above the highest recorded groundwater level. Additional infiltration testing in accordance with the BRE 365 specification may be required at the full SAB application stage to confirm the infiltration rates at a shallower depth.

Conclusions

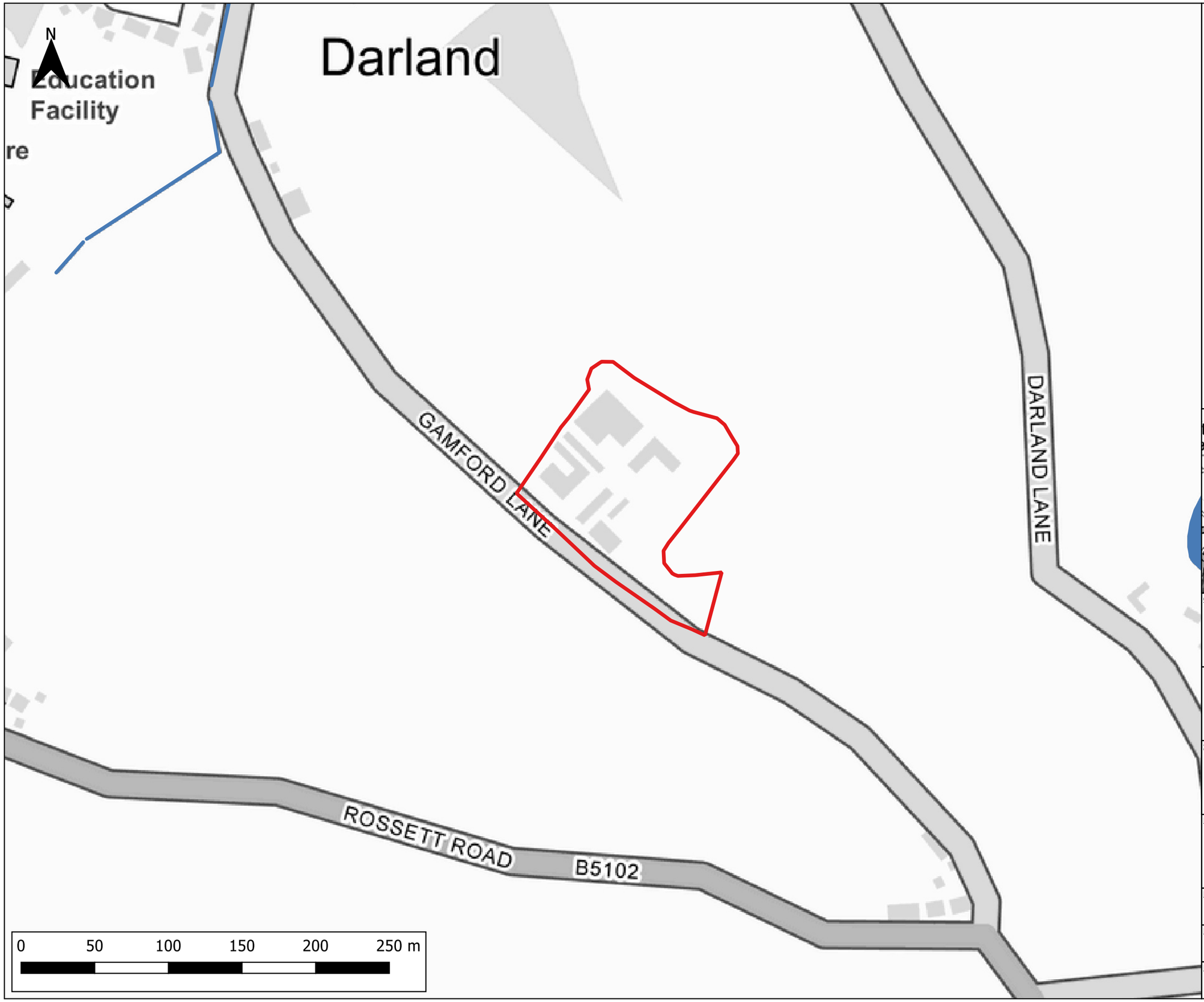
Waterco have undertaken infiltration and percolation testing for a proposed residential development at Gamford Farm, Gamford Lane, Rossett, Wrexham, LL12 0EW.

Percolation testing has been undertaken in general accordance with Part H2 of Building Regulations. The percolation test results show that discharge to ground via a drainage field / soakaway is feasible, however as the average percolation value is less than 12s/mm, provision of suitable secondary / tertiary treatment in the upstream package treatment plant will be required.

Infiltration testing in accordance with BRE Digest 365 has also been undertaken. Groundwater was recorded to depths between 1.8m.bgl and 2m.bgl in three trial pits. The infiltration rates obtained from TP2 and the percolation tests show that infiltration techniques are feasible within the sand and gravel deposits (all locations on site with the exception of TP4).

In accordance with G3.32 of the Statutory standards for sustainable drainage systems in Wales, there should be a minimum depth of unsaturated ground of 1m between the base of any infiltration system and the maximum likely groundwater level. Therefore, infiltration drainage techniques will be feasible on site where the depth of infiltration features are limited to approximately 0.8m.bgl, providing 1m clearance above the highest recorded groundwater level. Additional infiltration testing in accordance with the BRE 365 specification may be required at the full SAB application stage to confirm the infiltration rates at a shallower depth.

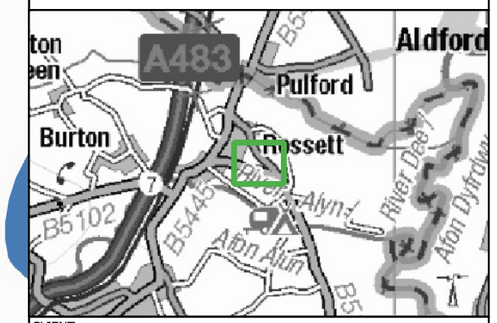
Appendix A Location Plan & Aerial Image



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Watercourses
- Waterbodies



CLIENT:
Urban Developments and Construction Ltd

waterco DATRYS
www.waterco.co.uk

SCHEME:
Gamford Lane, Rossett

PLOT TITLE:
Location Plan

PLOT STATUS:	DATE:
FINAL	24-08-2026

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
JP	AW	AW	1:2500

PLOT NAME:	REVISION:
17879_Location_Plan	-

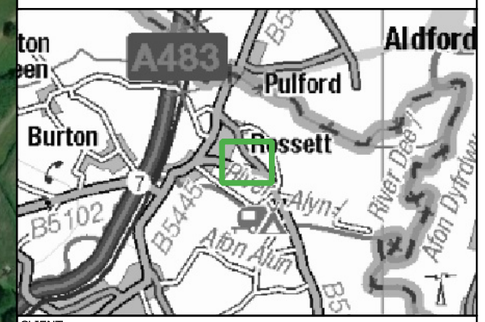
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Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

Site Boundary



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www.waterco.co.uk

SCHEME:
Gamford Lane, Rossett

PLOT TITLE:
Aerial Plan

PLOT STATUS:	DATE:
FINAL	24-08-2026

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
JP	AW	AW	1:2500

PLOT NAME:	REVISION:
17879_Aerial_Plan	-

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Appendix B LiDAR Plan

Darland

ducation
acility

N

DARLAND LANE

GAMFORD LANE

ROSSETT ROAD

B5102

12.28
12.14
12.40
12.31
12.44
12.27
12.76
12.70
12.78
14.07

0 50 100 150 200 250 m

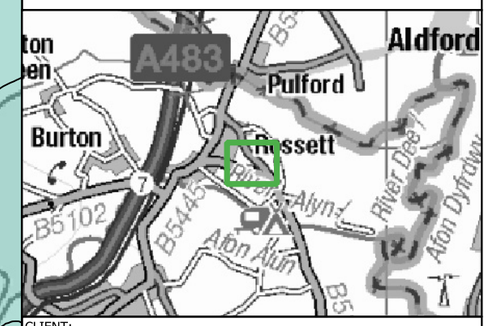
Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Site Levels (m AOD)

Ground Elevation (m AOD)

- <= 11
- 11 - 12
- 12 - 13
- 13 - 14
- > 14



CLIENT:
Urban Developments and Construction Ltd

waterco DATRYS
www.waterco.co.uk

SCHEME:
Gamford Lane, Rossett

PLOT TITLE:
LiDAR Plan
1m Resolution
Data from Natural Resources Wales
(published March 2023)

PLOT STATUS:	DATE:
FINAL	24-08-2026

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
IJ	JP	AW	1:2500

PLOT NAME:	REVISION:
17879_LiDAR_Plan	-

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Appendix C Proposed Development Plans

NORTH

EXISTING BARN RETAINED AND CONVERTED

EXISTING BARN RETAINED AND CONVERTED

UNIT 05

UNIT 04

UNIT 04

EXISTING BARN RETAINED AND CONVERTED

EXISTING DWELLING DEMOLISHED
REPLACEMENT DWELLING
15% LARGER THAN EXISTING

DENOTES OUTLINE OF ORIGINAL APPROVED SCHEME FOR CONVERSION OF EXISTING BUILDINGS IN 2016

DENOTES AGREED RESIDENTIAL CURTILAGE 2021 LDC APPROVAL

MARK WILLACY ARCHITECTS
Chartered Practice

client
MR. NATHAN CUNNINGHAM

job
PROPOSED REPLACEMENT DWELLING
GAMFORD FARM, GAMFORD LANE, ROSSETT

title
PROPOSED SITE LAYOUT

scale	date	job no.	drawing no.	rev
1:500@A1	11 NOV '25	MSW208	ST01	

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NORTH

PLANTING KEY

No peat based compost should be used during planting (although some shrubs may arrive in peat base)
Chemicals should be used sparingly and if only absolutely necessary

BORDER / SHRUB PLANTING	pot size	height	Specification
Calluna Vulgaris - heather	9cm	10-20cm	Bushy
Erica cinerea - heather	9cm	10-20cm	Bushy
Vaccinium myrtillus - bilberry	2ltr	60-80cm	Bushy - 2 breaks
Cotoneaster frigidus	3ltr	40-60cm	Branched - 2 breaks
Berberis darwinii	3ltr	30-40cm	Bushy - 4 breaks
Vibernum bodnantense	3ltr	40-60cm	Branched - 3 breaks
Mahonia sp	3ltr	40-60cm	Bushy - 2 breaks
Pyracantha	3ltr	40-60cm	leader with several laterals : 4 breaks

Bin Wagon Loading

Bin Store Compound

4 No parking spaces min

LANDSCAPING LEGEND

- Existing hedgerow retained fence with hawthorn, blackthorn, beech or yew planted behind
- 1200mm high brick wall with piers hawthorn, blackthorn, beech or yew planted in front
- 1200mm high post and rail fence with hawthorn, blackthorn, beech or yew planted behind
- Existing tree retained
- English Oak Quercus Ruber 10L Pot 150 - 200cm
- Rowan Ash Sorbus Aucuparia 10L Pot 150 - 180cm
- Agricultural land
- Grassed Area
- Porcelain Tiles
- Granite Setts
- Tarmac Driveway
- hawthorn, blackthorn, beech or yew
- Recycling / Bin Stores
- Secure Bike Store

REV A 29 MAY 2026 BIN COMPOUND HIGHLIGHTED

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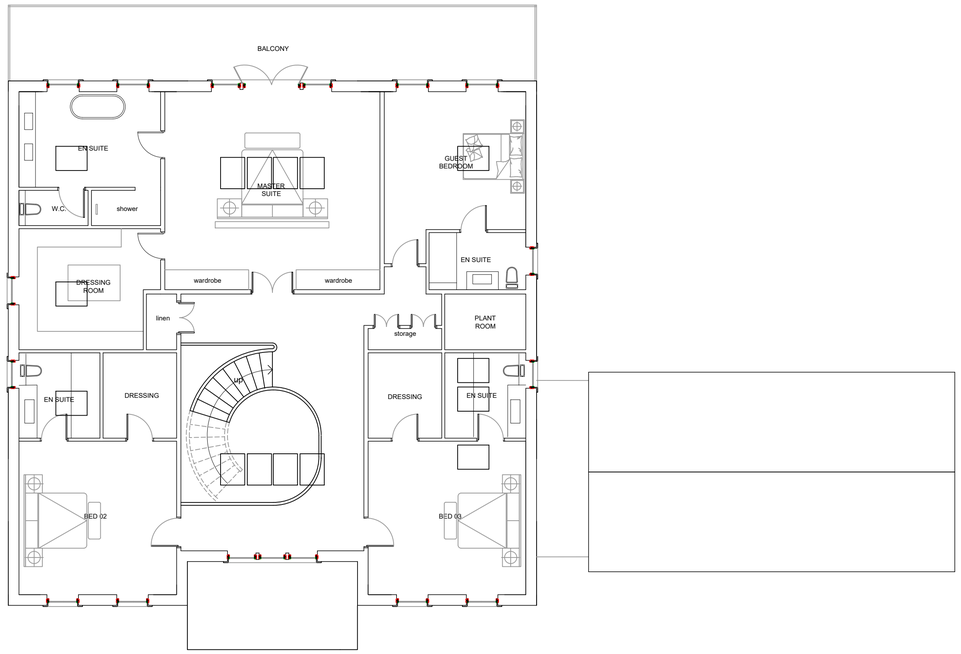
client
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job
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GAMFORD FARM, GAMFORD LANE, ROSSETT

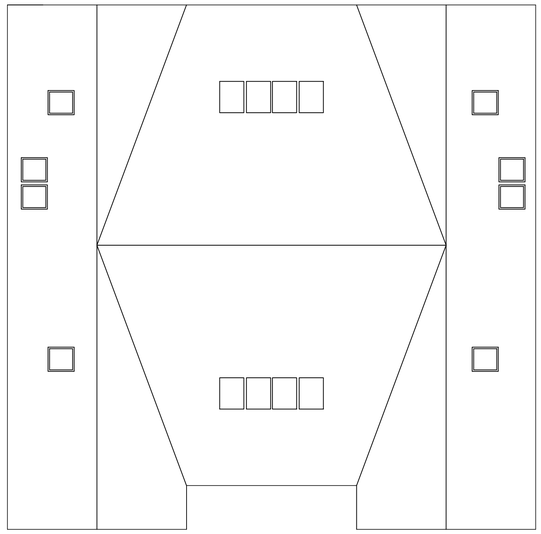
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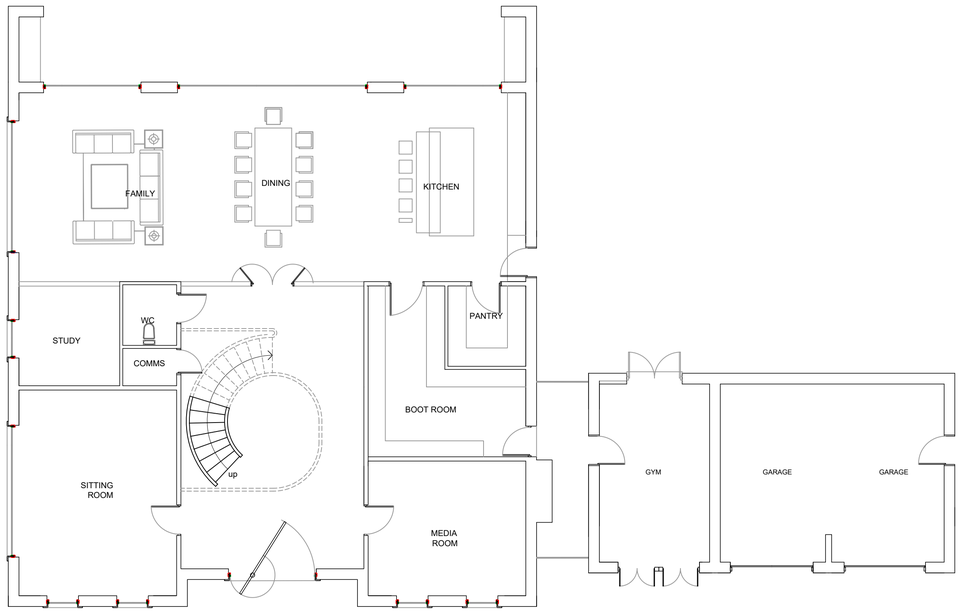
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FIRST FLOOR PLAN



ROOF PLAN



GROUND FLOOR PLAN

0 1 2 3 4 5 6 7 8 9 10 metres

The content of this drawing is subject to the provision of the Copyright Act 1956.

Work to figured dimensions only. Site dimensions are to be checked before work is started. Any discrepancy whatsoever between any information contained on this drawing and any other document or drawing must be drawn to the attention of the Architect by the contractor before the work is executed.

IF IN DOUBT ASK IMMEDIATELY.

General Notes

1. Do not scale from this drawing. If in doubt about a dimension or level shown on this drawing, please ask.
2. All dimensions are in millimetres and all levels are in metres unless noted otherwise.
3. This drawing is to be read and fully understood before work commences. If in doubt ask.
4. Contractor shall check all dimensions and levels and report any omissions and errors to the Engineer prior to starting of works.
5. This drawing MUST be read in conjunction with all relevant Structural Engineer and Architect drawings & specifications.
6. Contractor shall maintain the immediate construction site in a secure, clean and safe manner.
7. Protection: contractors shall be solely responsible for taking all steps necessary to protect the public from injury and adjacent property damages during construction as required by local codes.
8. Suitable staging platforms should be constructed with adequate guarding/hand railing to facilitate accurate and safe erection

RIBA Chartered Practice
MARK WILLACY ARCHITECTS

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client
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job
PROPOSED REPLACEMENT DWELLING
GAMFORD FARM, GAMFORD LANE, ROSSETT

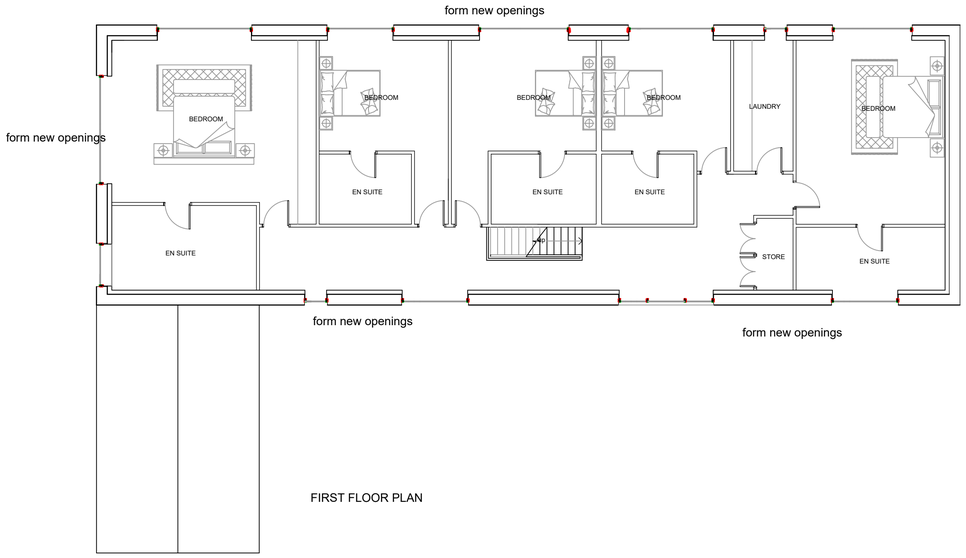
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PROPOSED FLOOR PLANS

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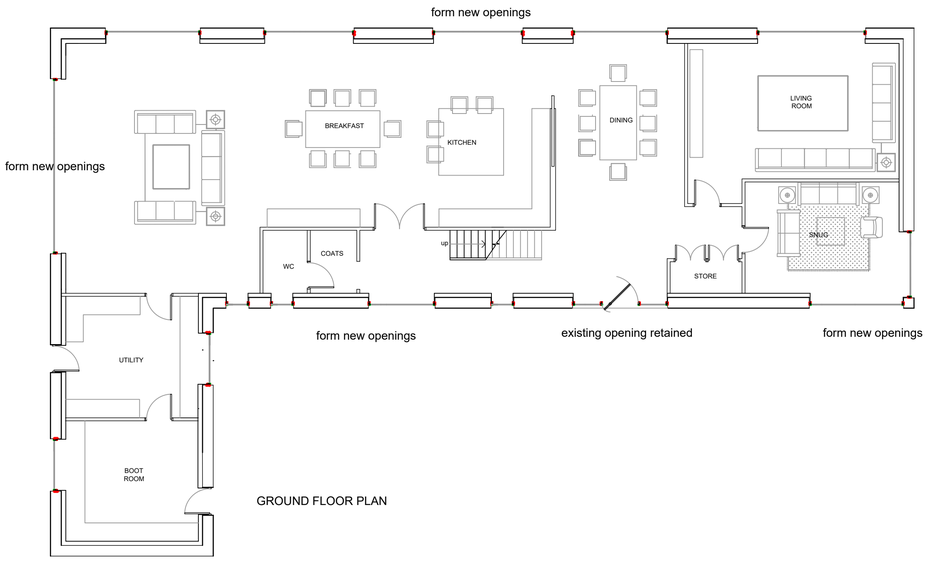
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FIRST FLOOR PLAN



GROUND FLOOR PLAN



ROOF PLAN

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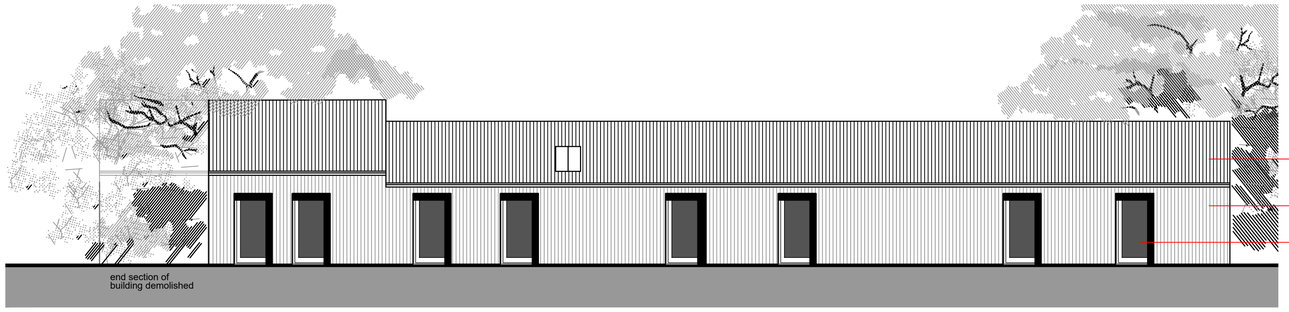
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job
PROPOSED REPLACEMENT DWELLING
GAMFORD FARM, GAMFORD LANE, ROSSETT

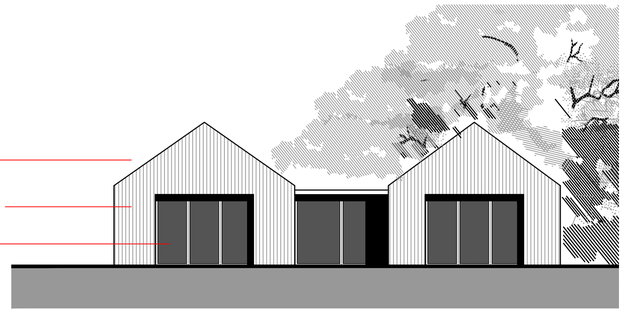
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PROPOSED CONVERSION OF BUILDING 10 FLOOR PLANS

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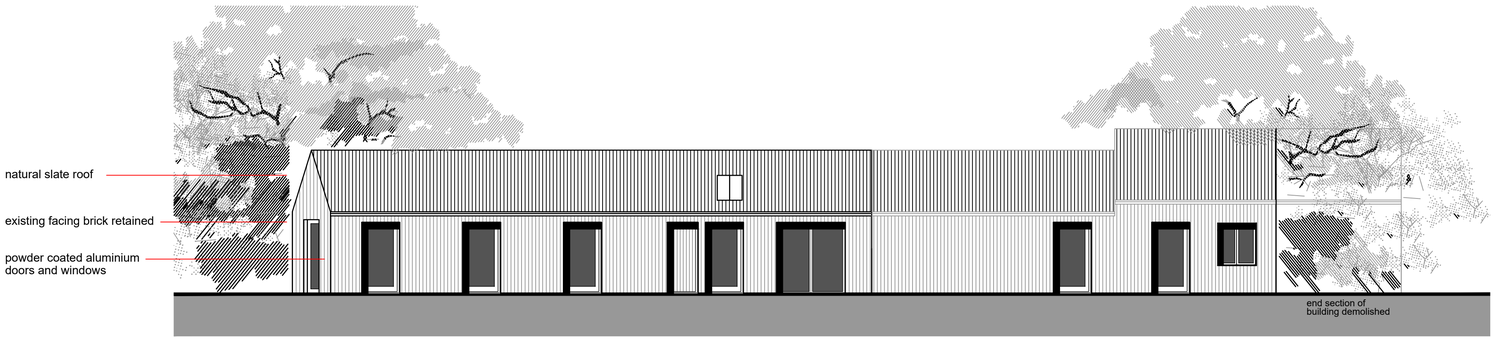
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ELEVATION FACING NORTH EAST



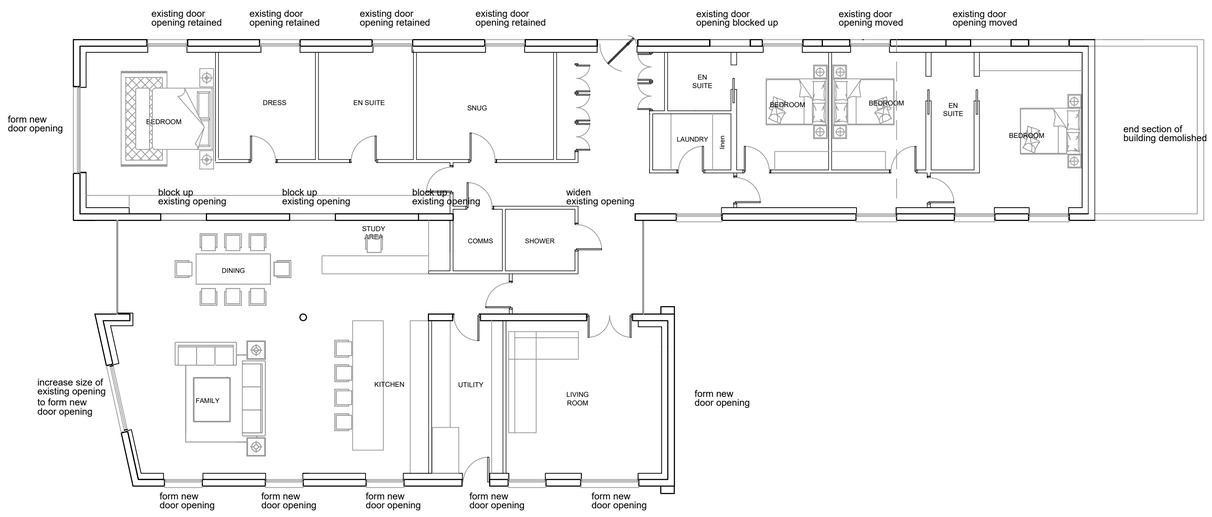
ELEVATION FACING NORTH WEST



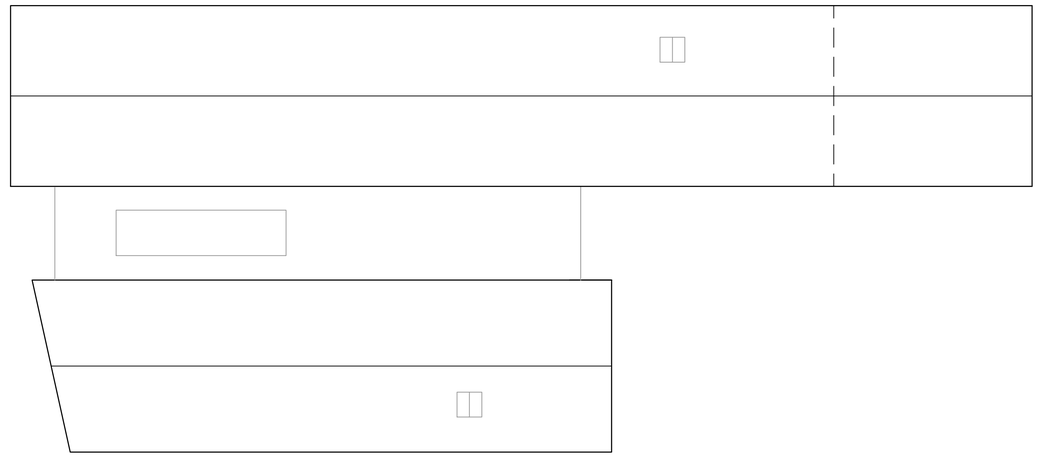
ELEVATION FACING SOUTH WEST



ELEVATION FACING SOUTH EAST



GROUND FLOOR PLAN



ROOF PLAN

RIBA Chartered Practice

MARK WILLACY
ARCHITECTS

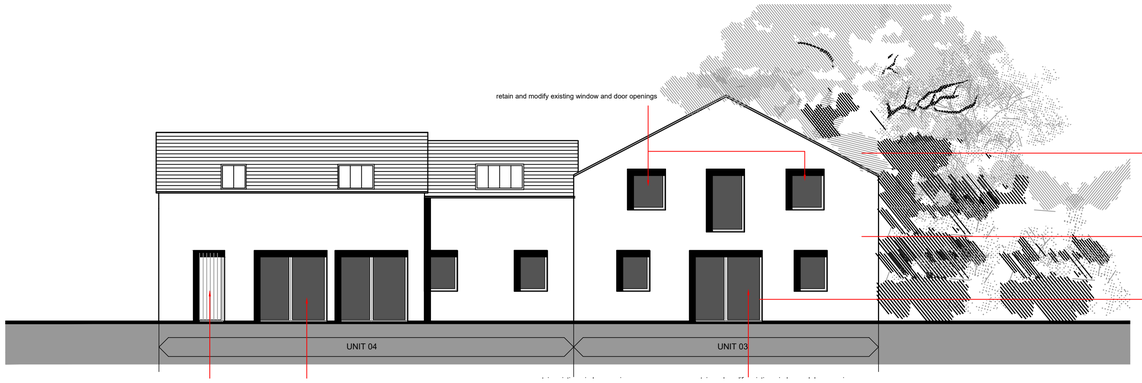
client
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job
PROPOSED REPLACEMENT DWELLING
GAMFORD FARM, GAMFORD LANE, ROSSETT

title
PROPOSED CONVERSION OF BUILDING 04 & 05

scale	date	job no.	drawing no.
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E – mark@markwillacyarchitects.co.uk
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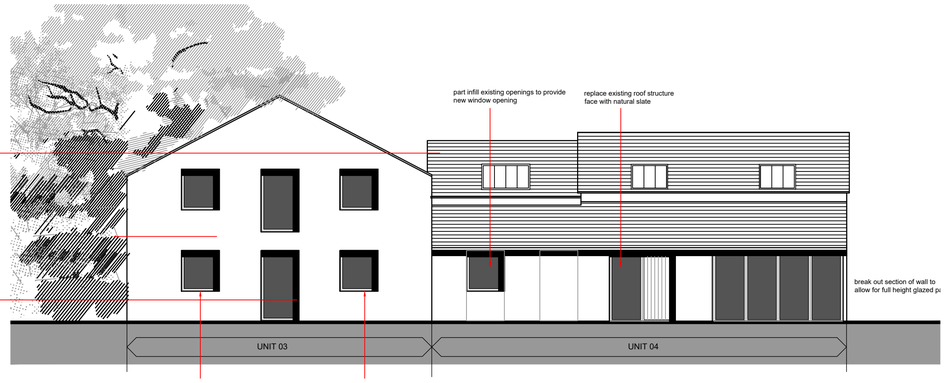


ELEVATION FACING NORTH EAST

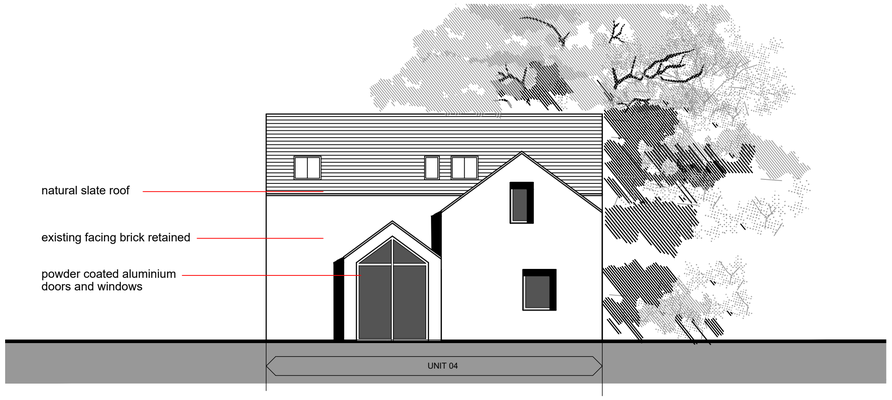
natural slate roof

existing facing brick retained

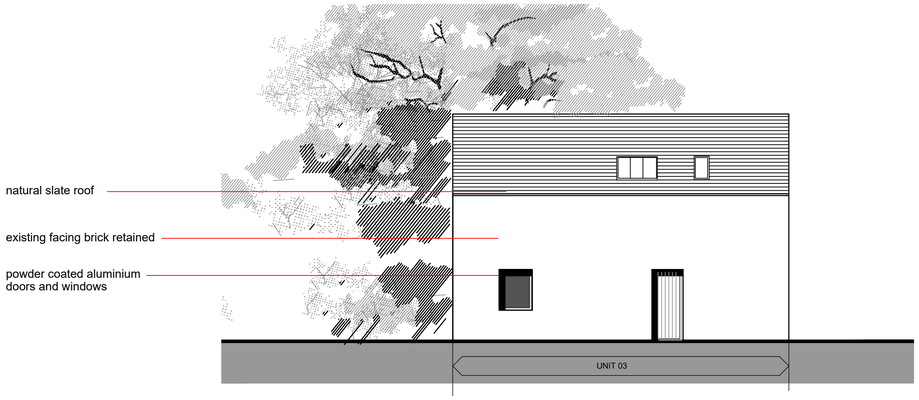
powder coated aluminium doors and windows



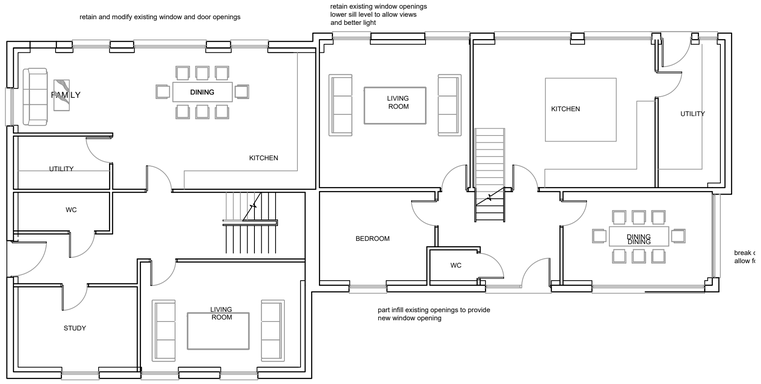
ELEVATION FACING NORTH WEST



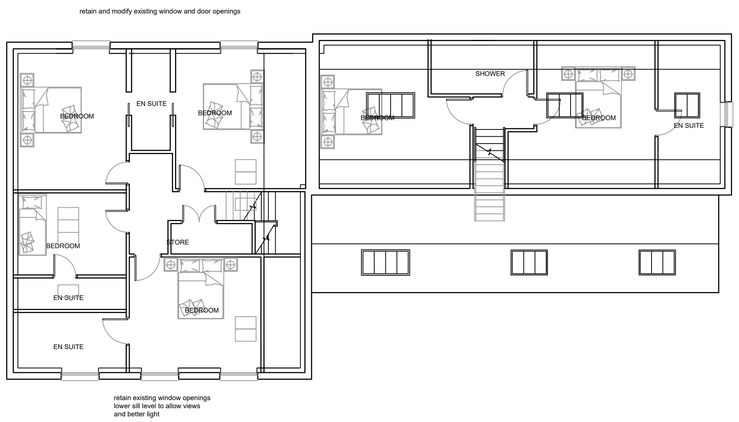
ELEVATION FACING SOUTH WEST



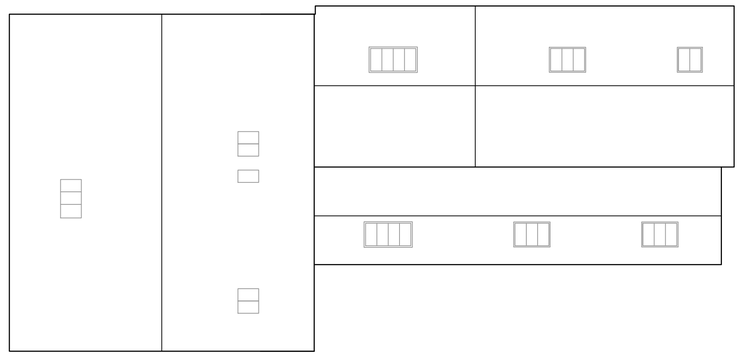
ELEVATION FACING NORTH EAST



GROUND FLOOR PLAN



FIRST FLOOR PLAN



ROOF PLAN

RIBA Chartered Practice

MARK WILLACY ARCHITECTS

client
MR. NATHAN CUNNINGHAM

job
PROPOSED REPLACEMENT DWELLING
GAMFORD FARM, GAMFORD LANE, ROSSETT

title
PROPOSED CONVERSION OF BUILDING 15 - 19

scale	date	job no.	drawing no.
1:100@A1	27 JAN '26	MSW208	PR1519

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Appendix D Trial Pit Location Plan and Photographic Record



LEGEND

- Site Boundary
- Infiltration Test Location
- Percolation Test Location

CLIENT:

Urban Developments and Construction Ltd

waterco DATRYS
www.waterco.co.uk

SCHEME:

Gamford Lane, Rossett

PLOT TITLE:

Trial Pit Location Plan

PLOT STATUS:	DATE:
FINAL	11-09-2026

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
JP	LH	AW	1:1000

PLOT NAME:	REVISION:
17879_Trial_Pit_Location_Plan	-

CONTAINS OS DATA © CROWN COPYRIGHT (2026)
IMAGERY ©2026 AIRBUS, BLUESKY, INFOTERRA LTD & COWI A/S, MAXAR TECHNOLOGIES, MAP DATA ©2026

PHOTOGRAPHIC RECORD

Gamford Farm, Gamford Lane, Rossett
1st September 2026

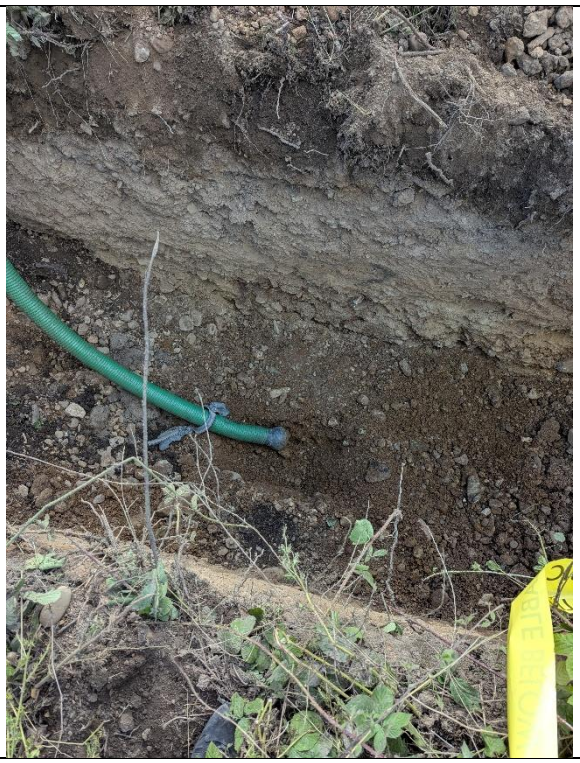
Photo No.1	
Date: 01/09/2026 Building Regs Part H Trial Pit 1	

Photo No. 2	
Date: 01/09/2026 Building Regs Part H Trial Pit 1	

Photo No. 3	
Date: 01/09/2026 BRE 365 Trial Pit 1 Excavated to a depth of 2.8m.bgl. Groundwater recorded at 1.8m.bgl.	

Photo No. 4	
Date: 01/09/2026 Building Regs Part H Trial Pit 2	

Photo No. 5	
Date: 01/09/2026	
BRE 365 Trial Pit 2 Excavated to a depth of 2.1m.bgl.	

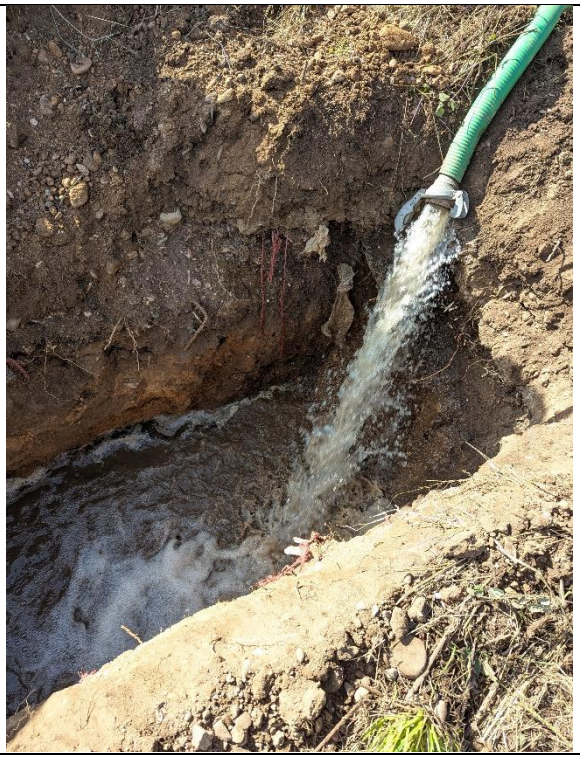
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Date: 01/09/2026	
BRE 365 Trial Pit 2	

Photo No. 7	
Date: 01/09/2026 Building Regs Part H Trial Pit 3	

Photo No. 8	
Date: 01/09/2026 BRE 365 Trial Pit 3 Excavated to a depth of 2.1m.bgl. Groundwater recorded at 2m.bgl.	

Photo No. 9	
Date: 01/09/2026 Building Regs Part H Trial Pit 4	

Photo No. 10	
Date: 01/09/2026 BRE 365 Trial Pit 4 Excavated to a depth of 2.2m.bgl.	

Photo No. 11	
Date: 01/09/2026	
BRE 365 Trial Pit 5 Excavated to a depth of 2.2m.bgl. Groundwater recorded at 1.9m.bgl.	

Photo No. 12	
Date: 01/09/2026	
TP3 Arisings consisted of sand and gravel with Made Ground (concrete, tyres and plastic bags) also present.	

Photo No. 13	
Date: 01/09//2026	
TP4 Arising consisted of sandy clay and gravel.	

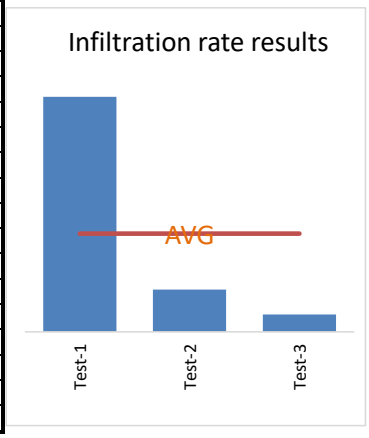
Photo No. 14	
Date: 01/09/2026	
TP5 Arisings consisted of clayey sand and gravel.	

Appendix E Infiltration Test Results

waterco consultants	Eden Court, Lon Parcwr Business Park, Ruthin LL15 1NJ, 01824 702220	Infiltration Rate Calculations	Reference **17879**
Client :	Urban Developments and Construction Ltd		Page 1 of 4
Scheme :	17879-Gamford Lane, Rossett		Initials / Revision
Section :	Infiltration Testing - Trial Pit 2		JP / 1
Prepared by:	Jack Pugh	Date:	10/09/2026
Checked by:	Louis Hunt	Date:	15/09/2026
Approved by:	Aled Williams	Date:	17/09/2026

Based on method described in BRE Digest 365

Test 1		Test 2		Test 3	
Time (min)	Depth (cm)	Time (min)	Depth (cm)	Time (min)	Depth (cm)
0	100	0	100	0	115
5	150	1	120	3	130
9	200	4	130	6	143
21	210	7	140	10	150
		10	150	13	160
		13	155	19	165
		16	160	27	173
		20	165	32	175
		26	170	36	175
		31	185	42	176
		38	190	54	182
				62	182
				73	184

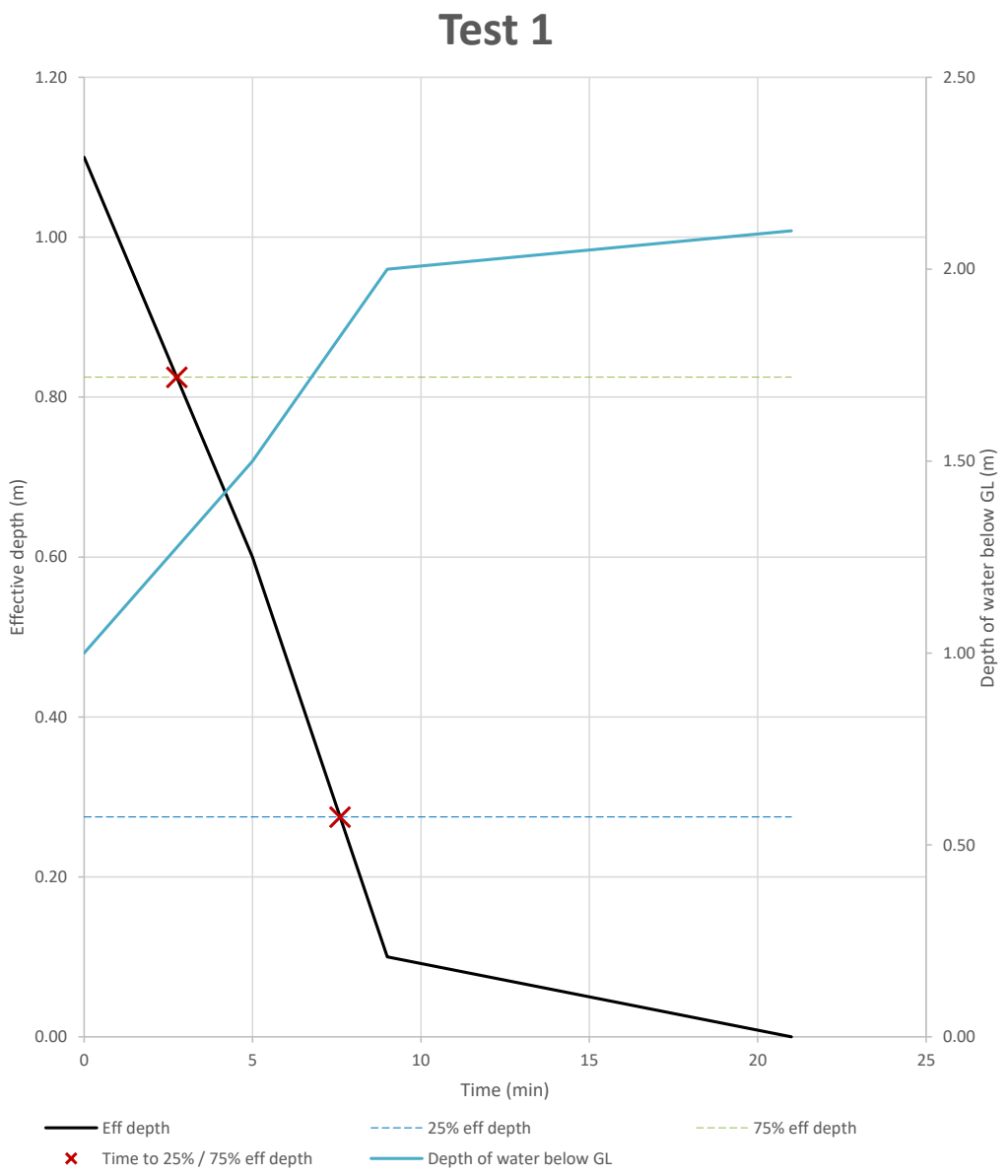


Test pit details			
Stone fill (% voids)	100	100	100
Length (m)	1.50	1.50	1.50
Width (m)	1.30	1.30	1.30
Depth (m)	2.10	2.10	2.05
Obs tube ht relative to GL (m)	0.00	0.00	0.00
Infiltration rate calculations			
Max Eff depth (m)	1.10	1.10	0.90
25% Eff depth (m)	0.28	0.28	0.23
75% Eff depth (m)	0.83	0.83	0.68
Time 25% t_{25} (min)	7.60	30.17	64.75
Time 75% t_{75} (min)	2.75	3.25	4.73
Time t_{p75-25} (sec)	291	1615	3601
Drop H_{75-25} (m)	0.55	0.55	0.45
Volume V_{p75-25} (m^3)	1.07	1.07	0.88
Eff Area a_{p50} (m^2)	5.03	5.03	4.47
Infiltration rate (m/s)	7.327E-04	1.320E-04	5.451E-05

Average Infiltration Rate: 3.064E-04m/s. **Minimum Infiltration Rate: 5.451E-05m/s.**

Eden Court, Lon Parcwr Business Park, Ruthin LL15 1NJ, 01824 702220		Infiltration Rate Calculations	Reference 17879
Client :	Urban Developments and Construction Ltd		Page 2 of 2
Scheme :	17879-Gamford Lane, Rossett		Initials / Revision
Section :	Infiltration Testing - Trial Pit 2		JP / 1

Based on method described in BRE Digest 365

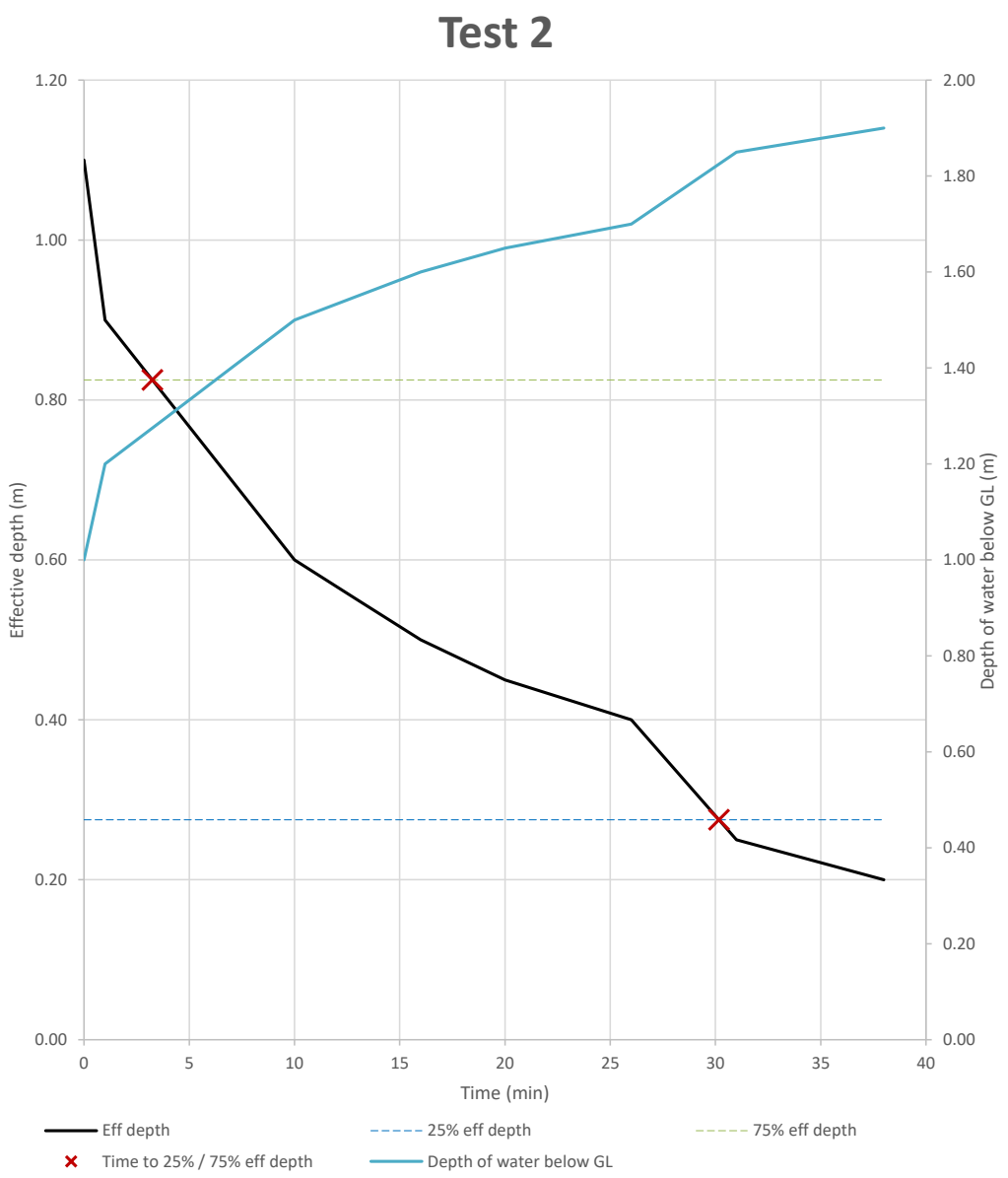


Calculations for pro-rata time to 25% & 75% depths

Time	Depth	Description
5	0.60	higher than 25% value
7.60	0.28	pro-rata 25%
9	0.10	lower than 25% value
0	1.10	higher than 75% value
2.75	0.83	pro-rata 75%
5	0.60	lower than 75% value

Eden Court, Lon Parcwr Business Park, Ruthin LL15 1NJ, 01824 702220		Infiltration Rate Calculations	Reference 17879.00
Client :	Urban Developments and Construction Ltd		Page 3 of 4
Scheme :	17879-Gamford Lane, Rossett		Initials: JP / Revision: 1
Section :	Infiltration Testing - Trial Pit 2		

Based on method described in BRE Digest 365

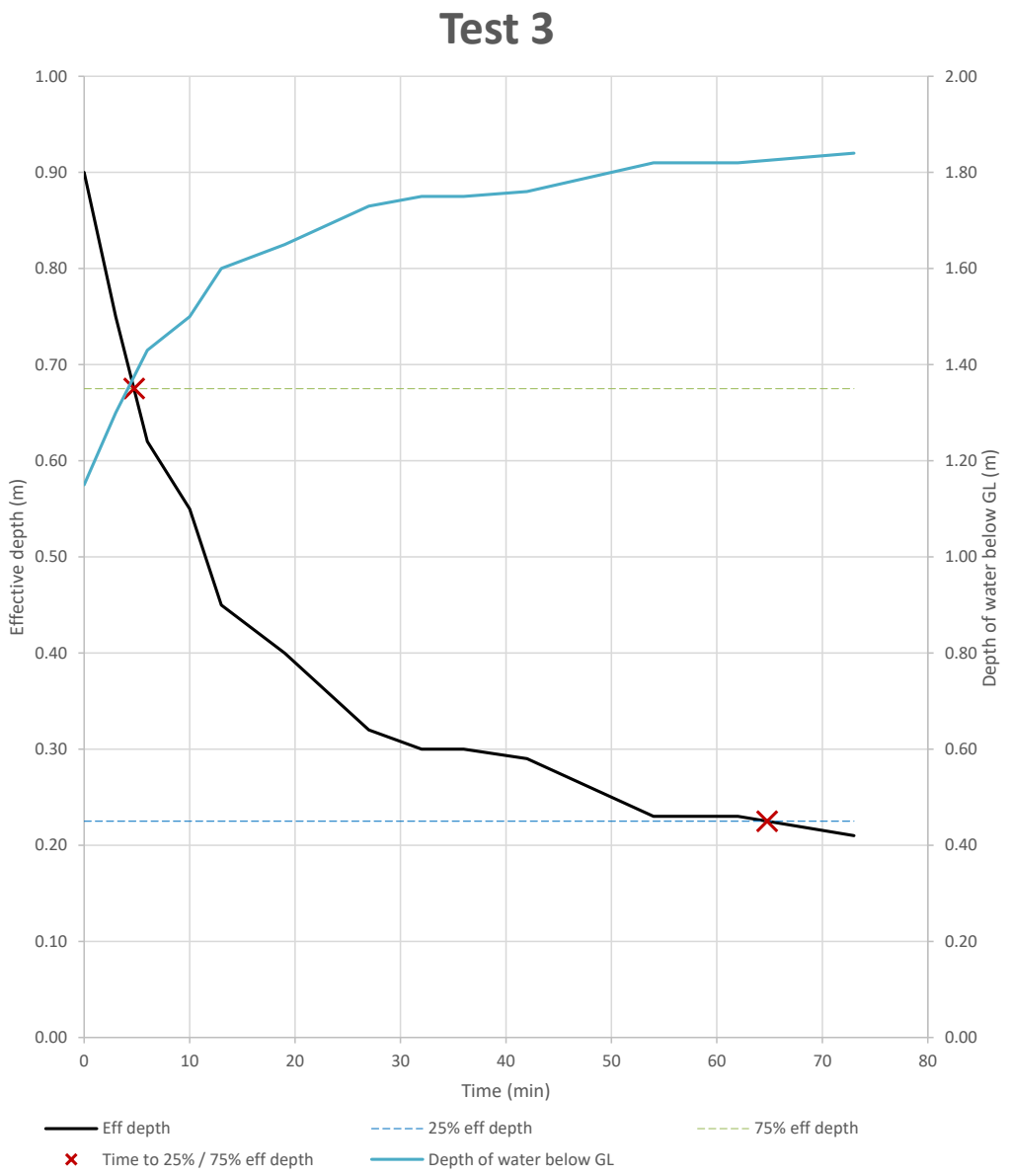


Calculations for pro-rata time to 25% & 75% depths

Time	Depth	Description
26	0.40	higher than 25% value
30.17	0.28	pro-rata 25%
31	0.25	lower than 25% value
1	0.90	higher than 75% value
3.25	0.83	pro-rata 75%
4	0.80	lower than 75% value

Eden Court, Lon Parcwr Business Park, Ruthin LL15 1NJ, 01824 702220		Infiltration Rate Calculations	Reference 17879.00
Client :	Urban Developments and Construction Ltd		Page 4 of 4
Scheme :	17879-Gamford Lane, Rossett		Initials: JP / Revision: 1
Section :	Infiltration Testing - Trial Pit 2		

Based on method described in BRE Digest 365



Calculations for pro-rata time to 25% & 75% depths

Time	Depth	Description
62	0.23	higher than 25% value
64.75	0.23	pro-rata 25%
73	0.21	lower than 25% value
3	0.75	higher than 75% value
4.73	0.68	pro-rata 75%
6	0.62	lower than 75% value