

Results of Archaeological Works at

Proposed New Dairy Complex Plas Llanfihangel, Capel Coch, Llangefni

NGR SH 45710 83193

Project Number CR131-2016



C.R Archaeology

Compiled by C. Rees & M. Jones
on Behalf of E. Jones & O. Rowlands

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**Results of Archaeological Works at:
Proposed New Dairy Complex Plas Llanfihangel, Capel Coch, Llangefni**

Planning Application Number:	Pre-planning
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Client:	E. Jones & O. Rowlands
Report Authors:	C. Rees
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1.0 Introduction

C.R Archaeology were instructed by E. Jones & O. Rowlands to conduct a programme of evaluation trenching at the above site. It is proposed that a new agricultural shed, milking parlour, farm yard and small track be built at the site.

This document has been prepared to supply the Local Planning Authority Archaeologist with further information as to the potential archaeological impacts of the aforementioned scheme. A specification was written and agreed with Jenny Emmett of GAPS prior to the commencement of works as a methodology for a programme of evaluation trenching. This document is included as Appendix A.

It was proposed that 3 trenches (1 measuring 30m x 2m, and 2 measuring 20m x 2m trenches) be excavated. As there are no obvious features visible on the site and geophysical survey has not been undertaken the trench layout was designed to target the areas of the site which are to be most impacted upon by the development (with an emphasis on the area within the buildings). It is intended that the results of the works outlined in this report will inform decisions as to the nature of any further archaeological mitigation strategies which may be required.

The site is located in agricultural land off the B5111 just to the north-west of the village of Capel Coch. The site had recently been ploughed and is set within an enclosed field boundary system. There is a large pond to the east of the development site.

The proposed development is positioned between two Bronze Age Standing Stones, Llech Golman (SAM AN070, NPRN 302477, PRN 2201) and Maen Addwyn (SAM AN069, NPRN 302478, PRN 2199) and it is considered to be the site of potential prehistoric activity.

2.0 Project Aims & Objectives

This programme of works for the development site aimed to undertake a programme of evaluation trenching. It aimed to examine the potential archaeological resource surviving on the site and to provide information which will be utilised to determine an appropriate methodology for any further archaeological mitigation which may be required.

This scheme of works aimed to excavate three evaluation trenches (1 measuring 30m x 2m and 2 measuring 2m x 20m see figure 2) down to the archaeological horizon/natural in order to assess the survival, character and date of any archaeological remains and to excavate/record any archaeological remains uncovered.

This project aimed to fulfil the criteria for undertaking an Archaeological Field Evaluation as specified in the CIFA Standard and Guidance documents (1994 Revised 2008 & 2014).

It is intended that this document be utilised to inform further archaeological planning decisions and conditions at the site.

The objectives of this programme of works were:

- To make full and effective use of the resulting information to establish the archaeological significance of the site
- To assess the survival, character and date of any archaeological remains
- To excavate/record any archaeological remains uncovered.
- To help inform future decision making, design solutions, further evaluation & mitigation strategies

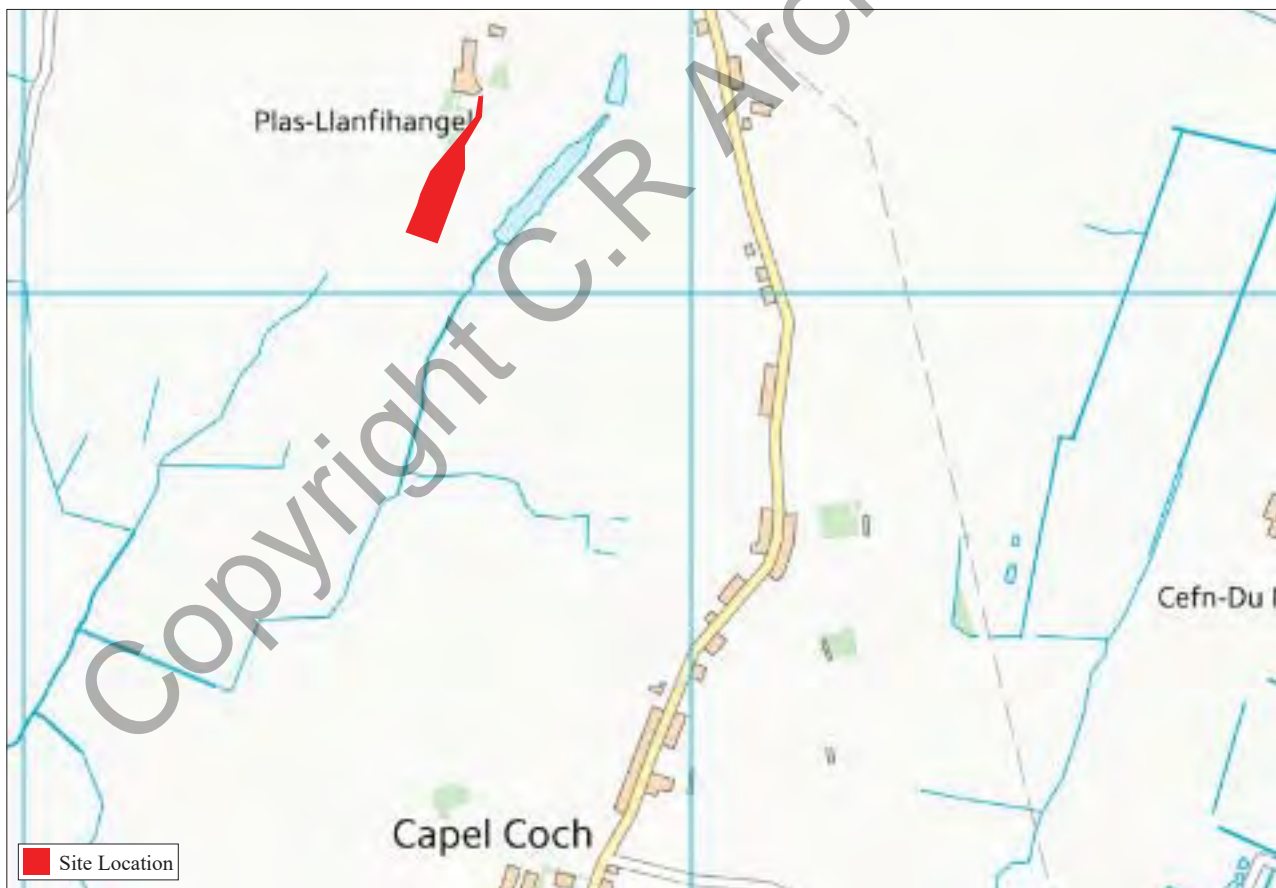
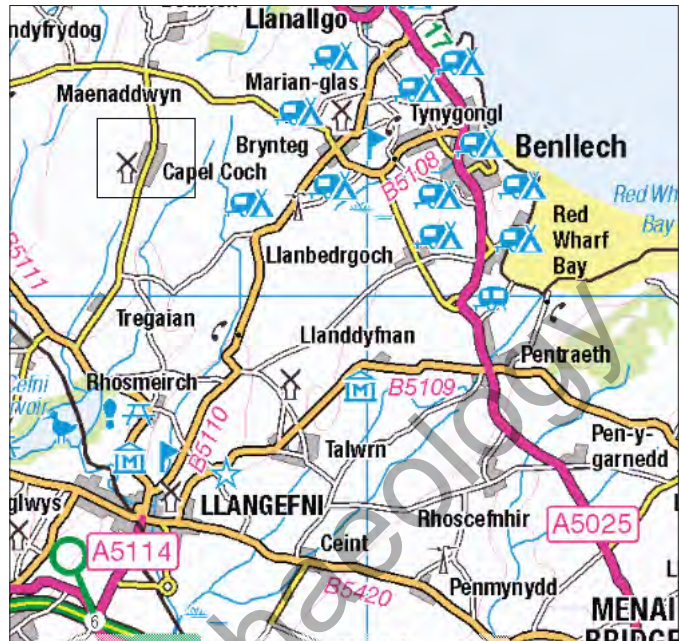
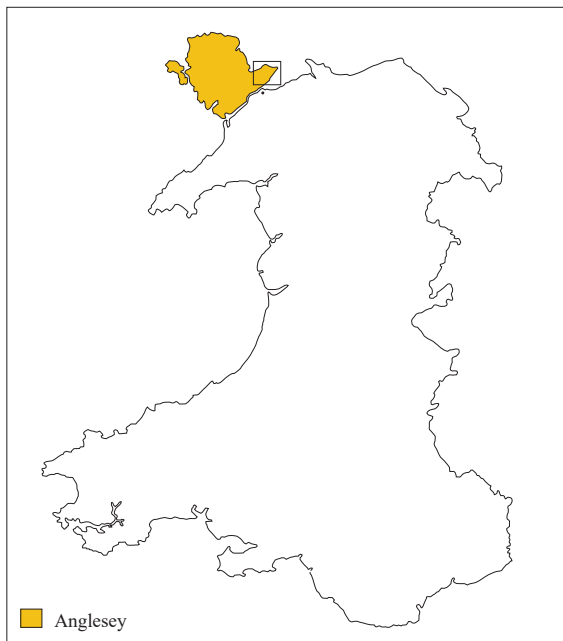


Figure 1. Site Location Map

(Source: OS Open Data Mapping. Contains Ordnance Survey data © Crown copyright and database right [2016])

3.0 Scheme of Works - Methodology

The archaeological works were conducted in two sections and each is detailed separately below.

3.1 Desk Based Research

Following a telephone discussion with Jenny Emmett of GAPS (11-08-2016) it was agreed that an in depth Desk Based Assessment would not be undertaken at this stage and that a search of the Gwynedd Historic Environment Record would be sufficient to provide the historical background for the report.

A search was conducted examining an area within a 500m radius of the proposed works (the grid reference for the search was taken as the centre point of the development area). A more general search was conducted at a 1000m radius although this information was not discussed in detail.

The works were carried out accordance with the CIfA Standards and Guidance for Historic Environment Desk-based Assessment (CIfA (Revised 2014)).

3.2 Evaluation Trenching

Three evaluation trenches, one measuring 2m x 30m and two measuring 2m x 20m were excavated within the proposed development area using a mechanical excavator with a toothless bucket. As there are no obvious features visible on the site, and a geophysical survey had not been undertaken the trench layout was designed to target the areas of the site which will be most impacted upon by the development (with an emphasis on the area within the buildings). The trench array is shown in figure 2.

All machine excavation was supervised by a Matthew Jones of C.R Archaeology. The trenches were excavated until the natural was reached.

No archaeological features or structures were identified in the course of the evaluation.

The works were carried out in accordance with the CIfA Standard and Guidance documents for Archaeological Field Evaluation (1994 Revised 2008 & 2014).

3.2.1 Recording

The record forms at C.R Archaeology are based on the English Heritage system and written, graphic and photographic records were made in accordance with the English Heritage *Field Recording Manual*. The written record comprises completed *pro-forma* record sheets.

Due to the negative results of these works general photographs were taken of each trench. Details concerning subject and direction of view were maintained in a photographic register, indexed by frame number. Images from photography will be stored in a loss-less digital format in this case '*.TIF'.

3.2.2 Additional Mitigation/Contingency Measures

No additional mitigation or contingency measures were necessary.

3.2.3 Recovery, Processing and Curation of Artefactual Material

All recovered artefactual material will be retained, cleaned, labelled and stored according to *Standard and Guidance for the collection, documentation, conservation and research of archaeological materials (CIfA 2014)* and *First Aid for Finds (Watkinson & Neal 2001)*. The aim will be to create a stable, ordered, well-documented, accessible material archive forming a resource for current and future research (CIfA 2014).

All artefactual material was bagged and labelled with the site code and context number prior to their removal from site. The archive reference number will be clearly marked on all finds. Each assemblage was examined according to typological or chronological criteria and conservation needs identified.

Following analysis it has been requested that all archaeological material recovered be deposited in Llangefni Museum. Processed assemblages will be boxed according to issued guidelines and a register of contents compiled prior to deposition. The works will be carried out in accordance with The Chartered Institute for Archaeologists: *Standard and Guidance for Archaeological Watching Brief* (Revised 2014).

3.2.4 Archive Compilation

All records created during the fieldwork will be checked for consistency and accuracy and will form part of the *Primary Site Archive (P1)* (EH 2006). The archive will contain all data collected, including records and other specialist materials. It will be ordered, indexed, adequately documented, internally consistent, secure, quantified, conforming to standards required by the archive repository and signposted appropriately to ensure future use in research, as detailed in the English Heritage *Management of Research Projects in the Historic Environment* (MoRPHE) methodology.

The archive will be assembled in accordance with the guidelines published in, *Standards in the museum care of archaeological collections* (Museums & Galleries Commission 1994), *Guidelines for the preparation of excavation archives for long-term storage* (United Kingdom Institute for Conservation, 1990) and *Archaeological Archives: A guide to best practice in creation, compilation, transfer and curation* (AAF 2007).

All materials contained within the *Primary Site Archive (P1)* that are subsequently identified by the *Assessment Report (P2)* as appropriate for analysis will be processed by suitable specialists and the resultant *Research Archive (P3)* will be checked and ordered according to MoRPHE criteria. The written archive and it is intended the artefactual material created/discovered during this archaeological project will be deposited at Anglesey Archives/Llangefni Museum. Archive material will be deposited in accordance with the archive's/museum's terms and conditions for archive deposition.

3.3 Timetable for Proposed Works

Works were undertaken on Thursday 18th August and were completed within a day. Further time was allotted for HER research, report compilation and site archiving.

3.4 Staffing

The project was managed by Catherine Rees MCIfA, BA (Archaeology), MA (Archaeology) Postgraduate Diploma (Historic Environment Conservation) & Matthew Jones (BA (Archaeology), MA (Archaeology)). The fieldwork was conducted by Matthew Jones (C.R Archaeology).

All projects are carried out in accordance with CIfA *Standard and Guidance* documents.

3.5 Monitoring

The project was subject to monitoring by Gwynedd Archaeological Planning Services and they were informed of the site progress. A site visit was not deemed to be necessary in this instance.

3.6 Health and Safety

A risk assessment was conducted prior to the commencement of works and site staff were familiarised with its contents. A first aid kit was located in the site vehicle.

All staff were issued with appropriate Personal Protective Equipment (PPE) for the site work. This consisted of:

- Safety Helmets (EN397)
- Hi-visibility vests (EN471)
- Safety footwear – steel toecap and mid-sole boots and Wellingtons (EN345-47)
- Mobile Telephone

3.7 The Report

The report clearly and accurately incorporates information gained from the programme of archaeological works. It presents the documentary evidence gathered in such a way as to create a clear and coherent record. The report contains a site plan showing the locations of photographs taken.

The report includes:

- A copy of the agreed specification
- A location plan
- A plan showing the locations of evaluation trenches
- A full bibliography of sources consulted
- An archive compact disc

It is intended that this report will inform decisions as to the necessity and/or nature of any further archaeological mitigation strategies which may be required.

A copy of the report in Adobe PDF format will be sent to the appropriate monitoring archaeologist for approval before formal submission. A PDF digital copy of the report will be submitted to GAPS as part of the formal submission. A digital Adobe PDF version and a bound paper copy of the final report and will be lodged with the Gwynedd Historic Environment Record within six months of completion of fieldwork.

3.7.1 Copyright

C.R Archaeology and sub-contractors shall retain full copyright of any commissioned reports, tender documents or other project documents, under the Copyright, Designs and Patents Act 1988 with all rights reserved; excepting that it hereby provides a licence to the client and the local authority for the use of the report by the client and the local authority in all matters directly relating to the project as described in the Project.

4.0 Geographical and Geological Context

4.1 Topography

The site is located in agricultural land off the B5111 just to the north-west of the village of Capel Coch. The site is located at the top of the rise of a low hill in a rural setting. The site had recently been ploughed and is set within an enclosed field boundary system. There is a large pond to the east of the development site.

4.2 Geology

The bedrock geology at the site is recorded as “*Central Anglesey Shear Zone And Berw Shear Zone (undifferentiated) - Schist, Hornblende. Metamorphic Bedrock formed approximately 508 to 635 million years ago in the Cambrian and Ediacaran Periods. Original rocks without interpretation. Later crushed in fault zone or shear zone. These rocks have undergone low grade metamorphism, high grade regional metamorphism, or crushing in a fault or shear zone and it is not known whether they were of igneous, sedimentary or older metamorphic origin*” (www.bgs.ac.uk).

The superficial geology of the site is recorded as *“Till, Devensian - Diamicton. Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by ice age conditions. These rocks were formed in cold periods with Ice Age glaciers scouring the landscape and depositing moraines of till with outwash sand and gravel deposits from seasonal and post glacial meltwaters”* (www.bgs.ac.uk).

5.0 Historical Background

A search of archaeological sites within a 500m radius of the proposed development area was conducted and the results are summarised below. The results have been broadly divided by period. A detailed desk based analysis of the archaeological potential of this development was not requirement of this project.

Prehistoric

The proposed development is positioned between two Bronze Age Standing Stones, Llech Golman (SAM AN070, NPRN 302477, PRN 2201) and Maen Addwyn (SAM AN069, NPRN 302478, PRN 2199).

Llech Golman is described in the GAT HER as a Bronze Age standing stone situated on a rounded ridge in an undulating landscape. It is visible from all around except for the northern arc (W-E) where it is obscured by the hill slope within a few 100m. It is a large rough stone 2.4m high, 1.7m wide and 1.1m thick with a few stones around the base which may be packing. It is a red jasper like stone which has a flat southern side. The north side somewhat flattened and the stone is somewhat cracked.

The RCAHMW entry adds *“stones such as this are usually identified as prehistoric, often Bronze Age, ceremonial or ritual monuments, however, a more recent date and a more mundane function cannot be ruled out. The stone is first depicted on the third edition of the OS County series (Anglesey VII.15 1921) on which it is not depicted as an antiquity. There is a small disused quarry some 50m to the north”*.

Maen Addwyn is similarly described by the RCAHMW as *“a large standing stone or erect monolith built into a roadside wall. It is 3.4m tall, 1.2m wide and 0.9m thick. Stones such as these are usually ascribed a prehistoric, often a Bronze Age date and a ritual or ceremonial function. However, a more recent date and a more mundane function are also possible”*. The GAT HER entry adds that the stone *“is set at centre of a wide natural basin visible from Bodafon Mountain”*.

Early Medieval & Medieval

There are 3 entries detailing Early Medieval and Medieval sites within 500m of the proposed development area, all associated with the Llanfihangel-tre'r-beirdd Parish Church.

The Church of St Michael is a Grade II Listed Building (ID 5390) and the following description has been taken from the Cadw building description.

“Location

Set back from the E side of a country road c350m S of the small hamlet of Maenaddwyn.

History

Simple Medieval rural church, repaired and refitted in 1811 and 1844, and extensively rebuilt by Henry Kennedy in 1888. Parts of the walling, and some features such as the N doorway and chancel windows, are C14.

Interior

Both nave and chancel have a late C19 exposed roof with arch braced collared trusses with angled braces, down to wall posts on shaped corbels; those in the chancel each with a single number set in a floriate boss which together read 1888.

Set into the S wall of the nave is a C13 grit slab gravestone; an incised cross with a double head. In the N wall of the nave there are another 2 stones, both much weathered gritstone pieces, probably late medieval; one is the lower part of incised stem of a cross on a base of 3 steps, the other has a ring at the head and base and a small cross and 2 rings in the centre. Also set into the N wall is a medieval water stoup; a plain semi-octagonal gritstone bowl.

The chancel is a shallow pointed arch which rises from shaped corbels as springing course. The chancel is raised by a single step, the sanctuary a further 2 steps. The sanctuary has a mosaic tiled floor and a moulded rail on shaped stanchions with floriate brackets. The E window depicts St Michael and is flanked by marble memorials: that to R to John Lewis, Rector of Llandegfan d1743, that to L to Elizabeth, widow of John Lewis d1785.

At the W end of the nave are another pair of memorial tablets: one to William Thomas d1772, the other to Morys ap Rhisart Morys of Pentrerianell d1763.

The medieval font is an octagonal gritstone bowl, recut and probably slightly reshaped.

Exterior

Predominantly late C19 Gothic revival church comprising 3-bay nave with lower single bay chancel and NW porch. Built of rubble masonry with freestone dressings; nave has stepped angle buttresses. Slate roof with stone copings; cross gable finials and single W bellcote surmounted by a cross finial.

The outer porch doorway is a pointed arch above which is a tablet which bears the date 1888. The reset C14 inner doorway is a pointed arch with broach stop chamfered jambs. The nave has single trefoil headed lights; the W wall has a narrow rectangular light to the L of which is an inscribed stone which bears the date and initials: WW WT 1811. The E window is a late C19 ogee headed light with cusped tracery; the mould has medieval heads as terminals. The N wall of the chancel has a reset window of a single cinquefoil light and sunk spandrels, the S wall has a single trefoil headed light; both are repaired and appear to be late Medieval in date.

Reason for Listing

Listed as a well detailed late C19 rural church in a simple Gothic style, which includes some medieval features within its fabric and which retains some late C18 memorials” (www.britishlistedbuildings.co.uk).

Within the church is an earlier monument, an inscribed stone which has been inset in the southern wall of the nave. PRN 2189 is recorded in the HER as a “roughly rectangular slab, 29ins x 9ins, of gritstone with incised decoration of large circle, 2 vertical bars with a shorter bar between, all conjoined, with 2 small circles and a larger circle respectively in upper and lower spaces. Inside church in S wall of nave. The significance of the device is obscure. Possibly C7th-C11th”. This description slightly differs in date from that included above in the interior section of the Listed Building description.

Post Medieval

Within 500m of the proposed development site lie two records of Post Medieval date. The first is PRN 61540, a relict Post Medieval field system. It is recorded as “*relict rectilinear field system visible on aerial photographs beneath the modern field boundaries. It appears to align with Plas Llanfihangel and although not shown on the Tithe Map for Llandyfrydog and Llanfihangel Tre'r Beirdd, the fields predate the earliest Ordnance Survey maps*”. The second record is for the Capel Coch Character Area PRN 17128 which is described as “*Small area of (C19) ribbon settlement along a straight road, with small cluster around cross roads at Maenddwyn*”.

Cartographic Sources

A brief examination of the historic Ordnance Survey mapping of the proposed development area was made and there were no changes to the land marked between the 1887 – 1949 editions. The removal of several field boundaries has however taken place since 1949 to create the single very large field within which the development is situated. None of these boundary changes lie within the development area. Of interest with regards to the two standing stones is that neither appears on the First Edition OS Map. Maen Addwyn is first marked on the 1899 edition, whilst Llech Golman is not marked until 1915. This is not to suggest that the stones are not of considerable antiquity but a simple point of reference.

A spring is marked in the north-east of the field near to the farm access track and up until the 1963 OS map this spring has a south-west run. This is changed with the creation of a large pond to the east of the site when the spring run was redirected east down the hill. This shown on the 1973 OS map.

6.0 Results of Archaeological Works

At the time when the evaluation trenching was conducted the entire field within which the proposed development area is situated had recently been ploughed and all material above the level of the natural had been disturbed, and a single mixed plough soil created. The original depth of the overlying deposits is not known, nor is it known what depth the archaeological horizon/underlying natural would have been reached.

Prior to the commencement of works a flint scraper and 8 struck flints were collected in the area where the trenches were to be excavated. The decision was therefore taken to field walk the entire area of the development marked out on the supplied plan. No Prehistoric material was collected from beyond the area on the rise of the hill.

Trench 1. (Plate 1)

Trench 1 measured 30m by 2m and was orientated on a north-west - south-east axis. It was excavated to a maximum depth of 0.48m. Two contexts were identified deposit (101) was a mixed plough soil. It was a mid brown silty-clay 0.32m in depth. Below this the natural deposit (102) was a compact red-brown clay with some grey banding and rare sub-angular large and medium stones. This was cut into to a depth of 0.14m. No archaeological features or artefacts were encountered within this trench.

Trench 2. (Plate 2)

Trench 2 measured 20m by 2m and was orientated on a north-west - south-east axis. It was excavated to a maximum depth of 0.42m. Two contexts were identified deposit (201) was a mixed plough soil. It was a mid brown silty-clay 0.32m in depth. Below this the natural deposit (202) was a compact red-brown clay with some grey banding and rare sub-angular large and medium stones. This was cut into to a depth of 0.10m. No archaeological features or artefacts were encountered within this trench.

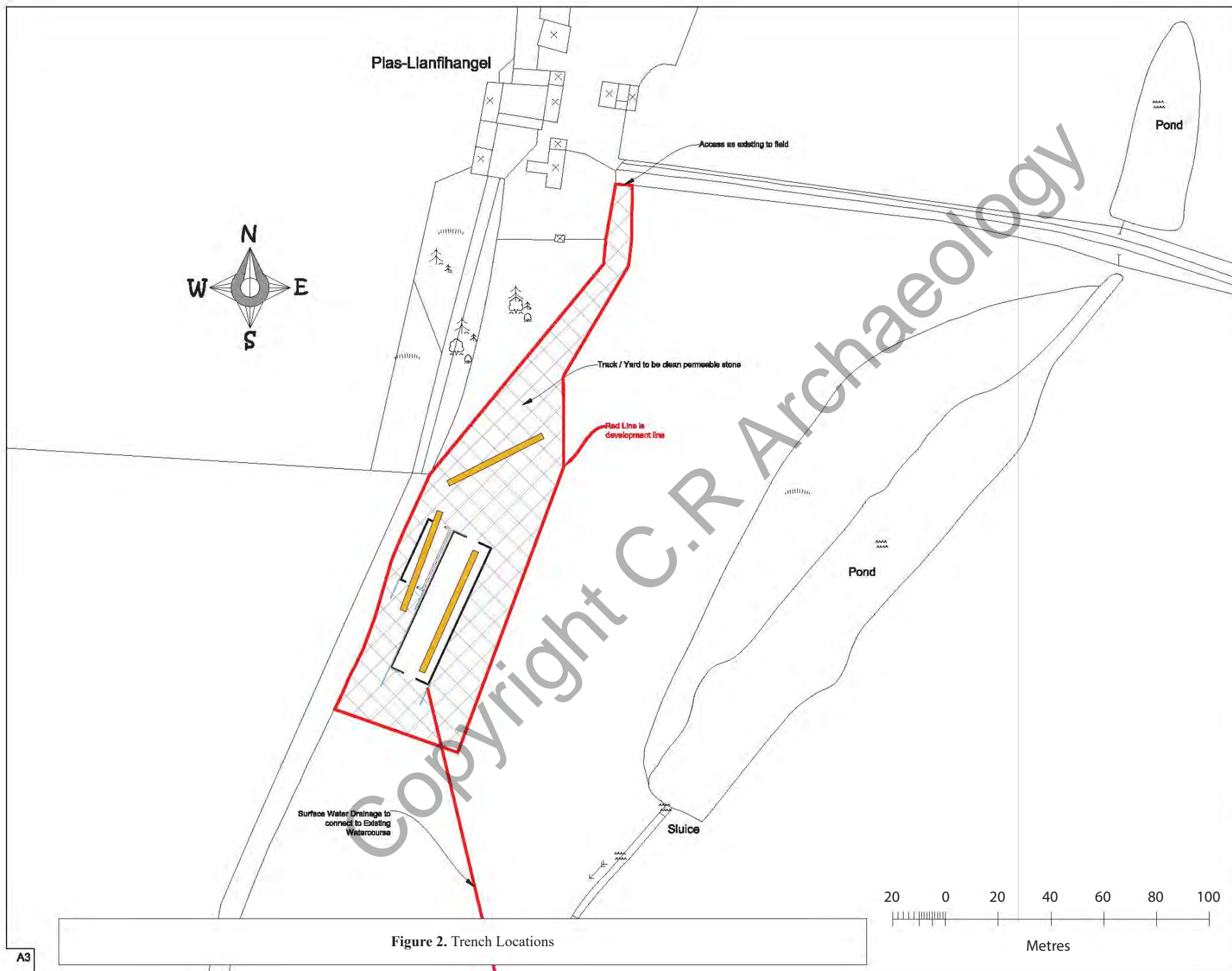


Figure 2. Trench Locations

Do not scale from this drawing
 1/11/2016 - 1/11/2016
 Project: New Milking Parlour Plas Llanfihangel
 Client: Mr Owen Rowlands
 Date: 17/05/2016
 Scale: 1/1250

C	17/05/16	Full Planning Application	WBO
D	17/05/16	Full Planning Application	WBO
A	22/05/16	Planning - Pre Development	WBO
—	04/05/16	Planning - Pre Development	WBO

Rev Date Details Of Issue Initials

PLANNING

CADWYN
 DESIGN & ARCHITECTURE

Plot 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 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Plate 1. Post Excavation Shot of Trench 1
(Taken Facing North-West)



Plate 2. Post Excavation Shot of Trench 2
(Taken Facing North-West)



Plate 3. Post Excavation Shot of Trench 3
(Taken Facing North-East)

Trench 3. (Plate 3)

Trench 3 measured 20m by 2m and was orientated on a north-east - south-west axis. It was excavated to a maximum depth of 0.48m. Two contexts were identified: deposit (301) was a mixed plough soil. It was a mid brown silty-clay 0.32m in depth. Below this the natural deposit (302) was a compact red-brown clay with some grey banding and rare sub-angular large and medium stones. This was cut into to a depth of 0.08m. No archaeological features or artefacts were encountered within this trench.

There was a line of black organic material at the base of the trench (see plate 3). This material was a mixture of animal blood/remains/slurry and had been pumped into the ground as a fertilizer. This may have a negative impact on buried remains as should there be any remains in the area then material for radio carbon dating may be contaminated.

Artefactual Material

Flint Artefacts (Figure 3)

The following flint artefacts were recovered whilst field walking the area of the proposed development. All were recovered from the plough soil (context 301).

SF 1 Scraper

A side-and-end scraper measuring 2.5cm in length, 2.0cm in width and 0.14cm in thickness was recovered (small find (SF) 1). It could also be considered a crude thumbnail scraper and is a light grey-white coloured beach/pebble flint. The scraper itself has been made from a flake and the scraper end has erased the proximal end of the original flake. The distal end of the flake and opposite end of the scraper has been broken in antiquity. The scraper retouch is present on the right lateral edge and proximal end of the flake. The scraper scars range from 6mm to 11mm in length and are classed as abrupt retouch.

It is most likely that the scraper is of Neolithic origin. Scrapers such as these were in common usage throughout the Neolithic and into the Bronze Age. Given the style of retouch and the overall nature of the scraper it could possibly be attributed to the early Neolithic. However, given its evocation as a crude thumbnail scraper then it could equally be of late Neolithic date.

SF 2 Blade Fragment

The proximal end of the small blade is 1.5cm in length, 1.4cm in width and 0.02cm in thickness. The blade is a light brown in colour with the edges near translucent when held up to the light.

SF 3

A single large toffee coloured flint secondary flake was recovered. It was 3.6cm in length and 1.8cm in width and has had the striking platform removed. The flint is from a pebble source.

SF 4

A small flint pebble 6cm in length x 3.5cm in width and 2.5cm thick. A rounded beach pebble with flakes taken off one end. The flint exposed was a mixed dark and light grey and a toffee colour.

SF 5

A flake of dark grey-brown flint with a white cortex. 3cm in length x 2.2cm in width and 1.3cm in thickness. A flake taken from a beach pebble.

SF 6 & 7

Two small flint fragments. SF 6 was a single small toffee coloured flake 1.1cm in length and 0.09cm in width. SF 7 was a small toffee colour pebble fragment with a white patina 2cm in length and 1cm in width and 0.08cm thick. Both were taken from beach pebbles.



SF 1. "Thumbnail"
Scraper



SF 2. Blade
Fragment



SF 3.



SF 4.
Flint Pebble



SF 5.



SF 8.



SF 6.



SF 7.



SF 9.



Figure 3. Flint Artefacts Recovered From Plough Soil (301) During Field Walking

SF 8

A large flake of dark grey flint with a white patina. 3.5cm in length and 2.2cm in width and 1.1cm thick.

SF 9

A pebble fragment of a dark grey flint with evidence of a white outer cortex with evidence of flake removal. 3.2cm in length and 3cm in width and 1.8cm thick.

Unless otherwise stated the above artefacts in itself are undiagnostic beyond the broad attribution of a Prehistoric date.

Summary

No archaeological features were identified within any of the trenches. The soil depth was shallow and the uniformity of the plough soil depth was noted. It is unclear as to the original depth of the archaeological horizon, and whether the ploughing has been undertaken to a depth where it has damaged underlying deposits. It would however seem likely that at least some deeper archaeological features such as pits and larger post holes would survive ploughing but the survival rates of intact floor/working/ground surfaces would seem to be extremely low.

7.0 Conclusion

No archaeological features were identified in any of the trenches, although the presence of a single flint scrapper and a number of struck flints would suggest that there is likely to have been prehistoric activity within the area. It is unclear as to the extent of the damage to underlying deposits which has been caused by the ploughing of the land.

Given the presence of the flint on the site and the location of the development between two Standing Stones it may be considered prudent to conduct an archaeological watching brief on further works at the site. There is likely to be at least some plough damage to any buried features should they survive but that it is considered that it is very unlikely to be so extensive so as to have removed all traces of earlier activity.

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Appendix A.

Specification for Archaeological Works

Copyright C.R Archaeology

Appendix B.

Proposed Development Plans

Copyright C.R Archaeology

Specification for Archaeological Works at

Proposed New Dairy Complex Plas Llanfihangel, Capel Coch, Llangefni

NGR SH 45710 83193

Project Number CR131-2016



C.R Archaeology

Compiled by C. Rees & M. Jones
on Behalf of E. Jones & O. Rowlands

Copyright C.R Archaeology

**Specification for Archaeological Works at:
Proposed New Dairy Complex Plas Llanfihangel, Capel Coch, Llangefni**

Planning Application Number:	Pre-planning
National Grid Reference:	NGR SH 45710 83193
Client:	E. Jones & O. Rowlands
Report Authors:	C. Rees
Project Number:	CR131-2016
Date:	11-08-2016

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Illustrations

Figure 1. Site Location Map

Figure 2. Proposed Trench Location Plan

Appendices

Appendix A. Proposed Site Development Plans

1.0 Introduction

C.R Archaeology were instructed by E. Jones & O. Rowlands to conduct a programme of evaluation trenching at the above site. It is proposed that a new agricultural shed, milking parlour, farm yard and small track be built at the site.

This document has been prepared to supply the Local Planning Authority Archaeologist with further information as to the potential archaeological impacts of the aforementioned scheme. This specification has been written with reference to telephone and email correspondence with Jenny Emmett of GAPS (beginning August 2016) as a methodology for a programme of evaluation trenching.

It is proposed that 3 trenches (1 measuring 30m x 2m, and 2 measuring 20m x 2m trenches) be excavated. As there are no obvious features visible on the site and geophysical survey has not been undertaken the trench layout has been designed to target the areas of the site which are to be most impacted upon by the development (with an emphasis on the area within the buildings). It is intended that the results of the works outlined in this document will inform decisions as to the nature of any further archaeological mitigation strategies which may be required.

The site is located in agricultural land off the B5111 just to the north-west of the village of Capel Coch. The site is currently in use as grazing within an enclosed field boundary system. There is a large pond to the east of the development site.

The proposed development is positioned between two Bronze Age Standing Stones, Llech Golman (SAM AN070, NPRN 302477, PRN 2201) and Maen Addwyn (SAM AN069, NPRN 302478, PRN 2199) and it is considered to be the site of potential prehistoric activity.

2.0 Project Aims & Objectives

This programme of works for the development site aims to undertake a programme of evaluation trenching. It aims to examine the potential archaeological resource surviving on the site and to provide information which will be utilised to determine an appropriate methodology for any further archaeological mitigation which may be required.

This scheme of works aims to excavate three evaluation trenches (1 measuring 30m x 2m and 2 measuring 2m x 20m see figure 2) down to the archaeological horizon/natural in order to assess the survival, character and date of any archaeological remains and to record any archaeological remains uncovered.

This project aims to fulfil the criteria for undertaking an Archaeological Field Evaluation as specified in the CIFA Standard and Guidance documents (1994 Revised 2008 & 2014).

It is intended that this document be utilised to inform further archaeological planning decisions and conditions at the site.

The objectives of this programme of works are:

- To make full and effective use of the resulting information to establish the archaeological significance of the site
- To assess the survival, character and date of any archaeological remains
- To excavate/record any archaeological remains uncovered.
- To help inform future decision making, design solutions, further evaluation & mitigation strategies

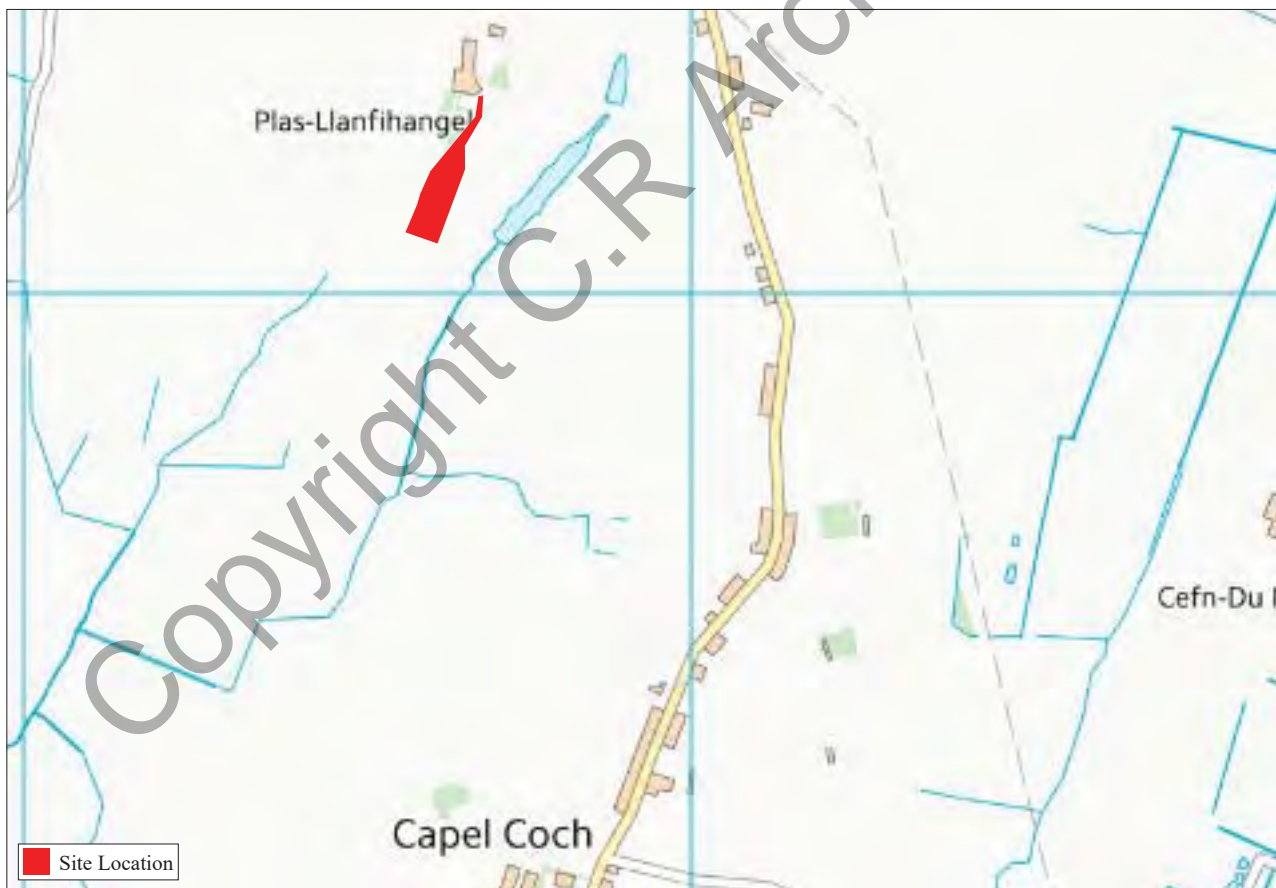
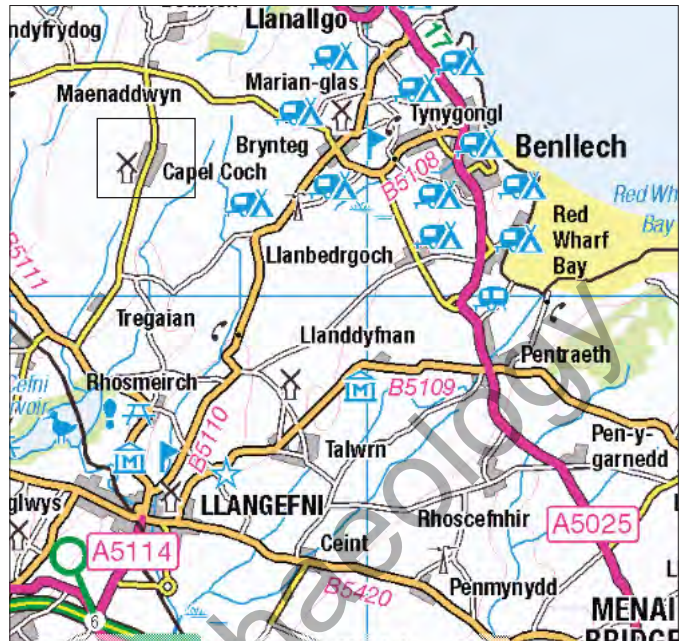
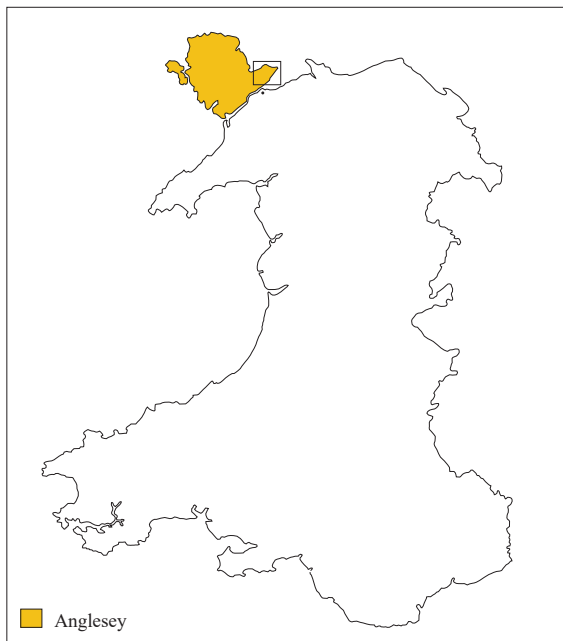


Figure 1. Site Location Map

(Source: OS Open Data Mapping. Contains Ordnance Survey data © Crown copyright and database right [2016])

3.0 Historical Background

The following section is, through necessity, brief and is intended to merely place the site in context. A more detailed history of the site will form an element in the proposed works and will concentrate more specifically on the site itself.

The proposed development is positioned between two Bronze Age Standing Stones, Llech Golman (SAM AN070, NPRN 302477, PRN 2201) and Maen Addwyn (SAM AN069, NPRN 302478, PRN 2199) and it is considered to be the site of possible prehistoric activity.

3.1 Topography

The site is located in agricultural land off the B5111 just to the north-west of the village of Capel Coch. The site is located at the top of the rise of a low hill in a rural setting. The site had recently been ploughed and is set within an enclosed field boundary system. There is a large pond to the east of the development site.

3.2 Geology

The bedrock geology at the site is recorded as “*Central Anglesey Shear Zone And Berw Shear Zone (undifferentiated) - Schist, Hornblende. Metamorphic Bedrock formed approximately 508 to 635 million years ago in the Cambrian and Ediacaran Periods. Original rocks without interpretation. Later crushed in fault zone or shear zone. These rocks have undergone low grade metamorphism, high grade regional metamorphism, or crushing in a fault or shear zone and it is not known whether they were of igneous, sedimentary or older metamorphic origin*” (www.bgs.ac.uk).

The superficial geology of the site is recorded as “*Till, Devensian - Diamicton. Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by ice age conditions. These rocks were formed in cold periods with Ice Age glaciers scouring the landscape and depositing moraines of till with outwash sand and gravel deposits from seasonal and post glacial meltwaters*” (www.bgs.ac.uk).

4.0 Scheme of Works - Methodology

It is proposed that the archaeological works be conducted in two sections and each is detailed separately below.

4.1 Desk Based Research

Following a telephone discussion with Jenny Emmett of GAPS (11-08-2016) it was agreed that an in depth Desk Based Assessment would not be undertaken at this stage and that a search of the Gwynedd Historic Environment Record would be sufficient to provide the historical background for the report. A search will be conducted examining an area within a 500m radius of the proposed works (the grid reference for the search was taken as the centre point of the development area). A more general search will be conducted at a 1000m radius although this information will not be discussed in detail.

The works were carried out accordance with the CIfA Standards and Guidance for Historic Environment Desk-based Assessment (CIfA (Revised 2014).

Further archival research will only be conducted in the event of a positive result of the evaluation trenching and will be undertaken should further information be required to place the site within its local, regional and national context.

4.2 Evaluation Trenching

Three evaluation trenches, one measuring 2m x 30m and two measuring 2m x 20m will be excavated within the proposed development area using a mechanical excavator with a toothless bucket. As there are no obvious features visible on the site and geophysical survey has not been undertaken the trench layout has been designed to target the areas of the site which are to be most impacted upon by the development (with an emphasis on the area within the buildings). The proposed trench array is shown in figure 2.

All machine excavation will be supervised by an archaeologist from C.R Archaeology. The trenches will be excavated until an archaeological horizon or the bedrock/natural is reached. When it is felt that the natural has been reached the machine will be used to excavate a sondage into the deposit in one trench to confirm that it has not been redeposited and that the material is the natural.

In the event of modern hard standing being uncovered a sondage will be machine excavated to determine the depth of this deposit. If safe to do so the modern deposit will be removed to assess the survival of underlying deposits. If the deposit is of a considerable depth it will not be removed and the trench will be excavated to this level to determine the extent of the modern disturbance.

Any archaeological features, structures or remains identified in the course of the evaluation will be trowel cleaned by hand. Investigation of such features, structures or deposits will be sufficient to determine their character, date, significance and quality. Excavation will generally involve the removal of 50% of pits/posthole fills and 25% of the fills of ditches/large linear features. Should it be deemed necessary to understand the archaeological remains uncovered trenches may be extended. This will be subject to prior agreed with GAPS and the client.

If features yield suitable material for dating/environmental processing then samples will be taken for processing off site. The size of these samples will depend on the size of the feature but for smaller features a sample of up to 95% will be taken. For larger features a sample of up to 40 litres will be taken. In the event of a significant discovery GAPS will be informed of the discovery and a mitigation strategy agreed before works will progress.

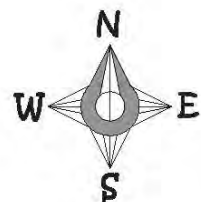
The works will be carried out in accordance with the CIfA Standard and Guidance documents for Archaeological Field Evaluation (1994 Revised 2008 & 2014).

4.2.1 Recording

The record forms at C.R Archaeology are based on the English Heritage system and full written, graphic and photographic records will be made in accordance with the English Heritage *Field Recording Manual*. Sample forms can be provided on request. The written record shall comprise completed *pro-forma* record sheets.

Plans, sections and elevations will be produced on gridded, archive standard stable polyester film at scales of 1:10, 1:20 or 1:50, as appropriate. Representative measured sections will be prepared as appropriate showing the sequence and depths of deposits. Where possible plans, elevations and sections will contain grid and level information relative to OS data. All drawings will be numbered and listed in a drawing register, these drawing numbers being cross-referenced to written site records. A 'harris matrix' diagram will be constructed for the excavated area.

A high-resolution 13mp Sony Alpha digital camera will be used to create a photographic record of the site. This will be comprised of photographs of archaeological features and appropriate groups of features and structures. Included in each photograph will be an appropriate scale, north arrow and a record board detailing the site name, number and context number. General photographs will also be taken in the event of a negative result.



Plas-Llanfihangel

Access as existing to field

Pond

Track / Yard to be clean permeable stone

Red Line is development line

Pond

Surface Water Drainage to connect to Existing Watercourse

Sluice

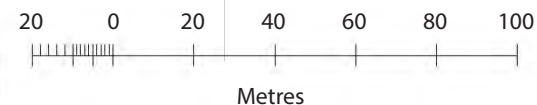


Figure 2. Proposed Trench Locations

Do not scale from this drawing
B1: Sheet - A3

Published in accordance with the provisions of the Planning (Listed Buildings and Conservation Areas) Act 1967 (as amended) and the Planning (Listed Buildings and Conservation Areas) Regulations 2001 (SI 2001/1002).

On receipt of an application for planning permission, the applicant is required to provide a copy of this drawing to the local planning authority for their records.

Notes:

C	17/05/16	Full Planning Application	WBO
D	17/05/16	Full Planning Application	WBO
A	22/05/16	Planning - Pre Development	WBO
—	04/05/16	Planning - Pre Development	WBO
Rev	Date	Details Of Issue	Initials

PLANNING

CADWYN
DESIGN & ARCHITECTURE

Plot 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 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All photographic records will be indexed and cross-referenced to written site records. Details concerning subject and direction of view will be maintained in a photographic register, indexed by frame number. Images from photography will be stored in a loss-less digital format in this case '*.TIF'.

4.2.2 Additional Mitigation/Contingency Measures

In the event of a significant archaeological discovery being made during the excavation C.R Archaeology will immediately inform both the client and the development control archaeologist Jenny Emmett. Consultation will take place between C.R Archaeology, GAPS and the client with regards to the most suitable course of action.

In the event that human remains are encountered site work will cease with immediate effect. The coroner, client and monitoring body will be informed immediately. The company will abide by the requirements of Section 25 of the Burial Act 1857. Any arrangements regarding the discovery of human remains will be at the discretion of HM Coroner whose instruction/permission will be sought. All human remains are to be preserved *in situ*, covered and protected. They will only be removed in exceptional circumstances and with the appropriate Ministry of Justice licence, environmental health regulations, Coroner's permission and, if appropriate, in compliance with the Disused Burial Grounds (Amendment) Act 1981 or other local Act, with adequate security provided in such cases.

Any artefacts recovered that fall within the scope of the Treasure Act 1996 will be reported to the landowner, GAPS and to HM Coroner.

4.2.3 Recovery, Processing and Curation of Artefactual Material

All recovered artefactual material will be retained, cleaned, labelled and stored according to *Standard and Guidance for the collection, documentation, conservation and research of archaeological materials (CIfA 2014)* and *First Aid for Finds (Watkinson & Neal 2001)*. The aim will be to create a stable, ordered, well-documented, accessible material archive forming a resource for current and future research (CIfA 2014).

All artefactual material will be bagged and labelled with the site code and context number prior to their removal from site. The archive reference number will be clearly marked on all finds. Each assemblage will be examined according to typological or chronological criteria and conservation needs identified. An assessment report of all post-medieval material will be produced by Matthew Jones and further specialists will be appointed as required. A list of specialists has been submitted to GAPS and the relevant expertise will be sought. Any specialist conservation necessary will be undertaken by Cardiff Conservation Services, Cardiff University. This will be conducted in accordance with guidelines issued by the Institute for Conservation.

Following analysis it has been requested that all archaeological material recovered be deposited in Llangefni Museum. Processed assemblages will be boxed according to issued guidelines and a register of contents compiled prior to deposition. The works will be carried out in accordance with The Chartered Institute for Archaeologists: *Standard and Guidance for Archaeological Evaluation* (Revised 2014).

4.2.4 Archive Compilation

All records created during the fieldwork will be checked for consistency and accuracy and will form part of the *Primary Site Archive (P1)* (EH 2006). The archive will contain all data collected, including records and other specialist materials. It will be ordered, indexed, adequately documented, internally consistent, secure, quantified, conforming to standards required by the archive repository and signposted appropriately to ensure future use in research, as detailed in the English Heritage *Management of Research Projects in the Historic Environment* (MoRPHE) methodology.

The archive will be assembled in accordance with the guidelines published in, *Standards in the museum care of archaeological collections* (Museums & Galleries Commission 1994), *Guidelines for the preparation of excavation archives for long-term storage* (United Kingdom Institute for Conservation, 1990) and *Archaeological Archives: A guide to best practice in creation, compilation, transfer and curation* (AAF 2007).

All materials contained within the *Primary Site Archive (P1)* that are subsequently identified by the *Assessment Report (P2)* as appropriate for analysis will be processed by suitable specialists and the resultant *Research Archive (P3)* will be checked and ordered according to MoRPHE criteria. The written archive and it is intended the artefactual material created/discovered during this archaeological project will be deposited at Anglesey Archives/Llangefni Museum. Archive material will be deposited in accordance with the archive's/museum's terms and conditions for archive deposition.

4.3 Timetable for Proposed Works

It is envisaged that the evaluation trenching will be undertaken within the next four weeks and an estimated time frame of 2 days has been allotted. Further time has been allotted for HER research, report compilation and site archiving.

4.4 Staffing

The project will be managed by Catherine Rees MCIfA, BA (Archaeology), MA (Archaeology) Postgraduate Diploma (Historic Environment Conservation) & Matthew Jones (BA (Archaeology), MA (Archaeology)). The fieldwork will be conducted by Matthew Jones (C.R Archaeology) with additional suitably qualified staff brought in as necessary.

All staff will have a skill set equivalent to the CIfA ACIfA/MCIFA level. C.Vs for all staff employed on the project can be provided on request. All projects are carried out in accordance with CIfA *Standard and Guidance* documents.

4.5 Monitoring

The project will be subject to monitoring by Gwynedd Archaeological Planning Services. A projected time-scale and copy of the risk assessment can be provided on request to the monitoring body prior to the commencement of works.

4.6 Health and Safety

A risk assessment will be conducted prior to the commencement of works and site staff will be familiarised with its contents. A first aid kit will be located in the site vehicle.

All staff will be issued with appropriate Personal Protective Equipment (PPE) for the site work. Initially this is anticipated to consist of:

- Hi-visibility vests (EN471)
- Mobile telephone (to be kept in site vehicle)
- Steel toe capped boots

Any further PPE required will be provided by C.R Archaeology

C.R Archaeology staff will also comply with any Health and Safety Policy or specific on-site instructions provided by the client or their appointed Principal contractor or H&S coordinator.

4.7 The Report

The report will clearly and accurately incorporate information gained from the programme of archaeological works. It will present the documentary evidence gathered in such a way as to create a clear and coherent record. The report will contain a site plan showing the locations of any photographs taken.

The report will include:

- A copy of the agreed specification
- A location plan
- A plan showing the locations of evaluation trenches
- All identified features and significant finds plotted on an appropriately scaled site plan
- Full dimensional and descriptive detail of all identified finds and features
- A full bibliography of sources consulted
- An archive compact disc

It is intended that this report will inform decisions as to the necessity and/or nature of any further archaeological mitigation strategies which may be required.

A copy of the report in Adobe PDF format will be sent to the appropriate monitoring archaeologist for approval before formal submission. A PDF digital copy of the report will be submitted to GAPS as part of the formal submission. A digital Adobe PDF version and a bound paper copy of the final report and will be lodged with the Gwynedd Historic Environment Record within six months of completion of fieldwork.

4.7.1 Copyright

C.R Archaeology and sub-contractors shall retain full copyright of any commissioned reports, tender documents or other project documents, under the Copyright, Designs and Patents Act 1988 with all rights reserved; excepting that it hereby provides a licence to the client and the local authority for the use of the report by the client and the local authority in all matters directly relating to the project as described in the Project.

5.0 Bibliography

English Heritage. 2006. *Management Of Research Projects in the Historic Environment (MORPHE)*

Lewis, Samuel. 1833. *A Topographical Dictionary of Wales*

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The Chartered Institute for Archaeologists. 1990 (Revised 2008 & 2014). *Code of Approved Practice for the Regulation of Contractual Arrangements in Field Archaeology*

The Chartered Institute for Archaeologists. 1994 (Revised 2009 & 2014). *Standard and Guidance for Archaeological Desk-Based Assessment*

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The Chartered Institute for Archaeologists. *2008 (Revised 2014). Standard and Guidance for the Creation, Compilation, Transfer and Deposition of Archaeological Archives*

Websites – all sites were visited 11/08/2016

www.bgs.ac.uk/geologyofbritain/home.html

www.cadw.gov.wales/historicenvironment/recordsv1/cof-cymru/?lang=en

www.ordnancesurvey.co.uk

www.britishlistedbuildings.co.uk

Copyright C.R Archaeology

Appendix A.

Proposed Development Plans

Copyright C.R Archaeology

H2O2

H2O2

Notes

Full Planning Application WSO

PLANNING



Plas Newydd Llanddeusant Ynys Mon LL65 4AD

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MR OWEN ROWLANDS:
MR EURING JONES

NEW MILKING PARLOUR PLAS
LLANFINANGEL CAPEL COCH LL77 7UT

LOCATION PLAN

	Scale (at A2)
--	---------------

Revision No.	
--------------	--



Proposed Finishes

Walls :- Concrete Wall and Box Profile Sheeting (Green).

Roof :- Box Profile Sheeting (Green).

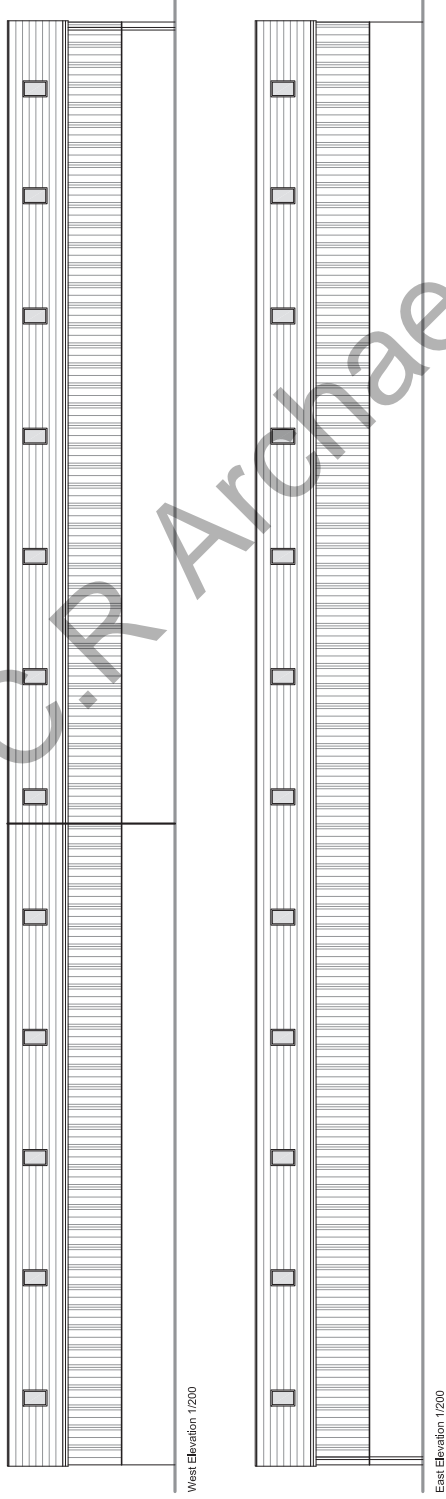
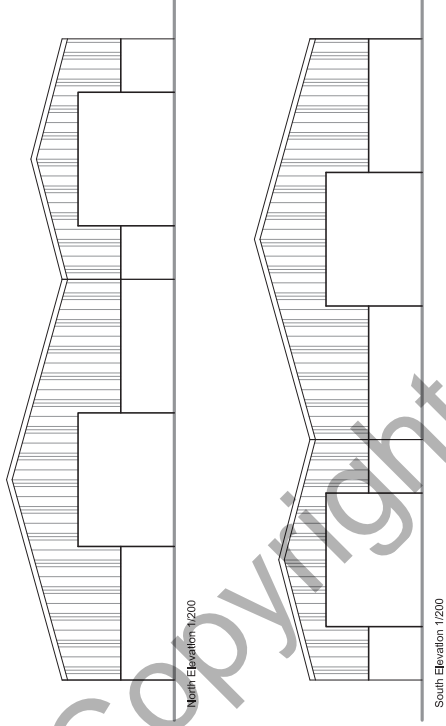
Rooflights :- uPVC Translucent.

Doors :- Steel Galvanized Doors.

Rain Water Goods :- uPVC

Pathway Around Building :- 1200mm (4ft) wide concrete path & Post and Rail Timber Fencing.

Surface Water Drainage :- 100mm Ø uPVC pipe to be laid to a fall of 1% and discharge to nearby watercourse as existing.



Site Cross Section AA 1/200

Drawn and Rev. Mr. Jones

11/10/2016

Project is a proposed new building to be constructed on the site of the existing building.

On completion of the project, the building will be used as a workshop and storage for the construction of new buildings. The project is a proposed new building to be constructed on the site of the existing building.

Proposed Finishes

Walls :- Concrete wall & Box Profile Sheeting.

Roof :- Box Profile Sheeting.

Doors :- Steel Galvanized Doors.

Rooflights :- uPVC

Rain Water Goods :- uPVC

Surface Water Drainage :- 100mm Ø uPVC pipe to be laid to a fall of 1% and discharge to nearby watercourse as existing.

Rev	Date	Details Of Issue	Initials
C	17/05/2016	Full Planning Application	WSO
B	09/05/2016	Full Planning Application	WSO
A	04/03/2016	Full Planning Application	WSO
1	04/03/2016	Planning - The Determination	WSO

Status

PLANNING



Planning Application No. 16/01545
Llanfangel Capel Cofh LL17 7UT
Tel: 01407 730 837 Mob: 078 4564279
Email: info@cadwyn.co.uk
Website: www.cadwyn.co.uk

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Client	MR OWEN ROWLANDS MR EIRING JONES
Project	NEW MILKING PARLOUR PLAS LLANFANGEL CAPEL COFH LL17 7UT
Title	ELEVATIONS

Drawn	WSO	Date	17/05/2016	Scale (or A3)	1/200
City Ref.	991514/04	Consultant Ref.	C		

