

**The Barn, Mill Road,
Badingham, Suffolk**

Planning application: DC/16/2997/FUL

HER Ref: BDG 073

Archaeological Evaluation Report

(© John Newman BA MCIFA, 2 Pearsons Place, Henley, Ipswich, IP6 0RA)

(June 2018)

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Site details for HER

Name: The Barn, Mill Road, Badingham, Suffolk, IP13 8LF

Clients: Avoncrown Ltd

Planning authority: Suffolk Coastal DC

Planning application ref: DC/16/2997/FUL

Development: Erection of 10 dwellings

Date of fieldwork: 8 May, 2018

HER ref: BDG 073

OASIS ref: johnnewm1-316056

Grid ref: TM 3100 6839

Site area: 5000m²

Recent land use: Rough grassland

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Summary: Badingham, The Barn, Mill Road (BDG 073, TM 3110 6839) evaluation trenching for a planned residential development close to a scatter of Roman period finds did not reveal any archaeological features or finds of any significance (John Newman Archaeological Services for Avoncrowne Ltd).

1. Introduction & background

1.1 Avoncrown Ltd commissioned John Newman Archaeological Services (JNAS) to undertake the archaeological evaluation works for a planned residential development on land at The Barn, Mill Road, Badingham (see Fig. 1) that has been given planning consent under application DC/16/2997/FUL. The evaluation requirements were set by Mrs R Abraham of the Suffolk CC Archaeological Service (SCCAS) with the aim of gaining a representative sample by trial trenching of the 0.50 hectare site. The Written Scheme of Investigation for the archaeological evaluation (see Appendix II) was subsequently prepared by JNAS in order to gain a conditional discharge and allow the trenching to go ahead before any other ground works are undertaken.

1.2 Badingham parish is to the north-east of Framlingham in central Suffolk in a landscape historically characterised by a dispersed settlement pattern partly focused within parishes on the respective churches but also scattered round the numerous greens and along roads and lanes. The planned development site is located 450m east of the parish church which is close to a farm and a few houses in an area of generally dispersed settlement historically characterised by scattered farms and cottages linked by minor roads, byways and footpaths. The site is on the northern side of Mill Road and most recently has been under a grass cover.

1.3 Archaeological interest in this development was generated by it being to the north of a prehistoric find spot, a flint flake of Palaeolithic date (HER BDG 030, see Fig. 1) and to the east of a Roman period finds scatter (HER BDG 046).

1.4 The British Geological Survey describes the drift deposits in this area as being chalky till of the Lowestoft Formation with outwash sands, gravels and silts. Essentially mixed drift geology of post-glacial origins. The site is at 40m OD in an area of gentle topography.

2. Evaluation methodology

2.1 The development area was trenched to an agreed plan (see Fig. 2) with a total sample length of 138m. The trenching was carried out using a medium sized 360 machine equipped with a 1500mm flat bucket which was under archaeological supervision at all times and any indistinct areas were hand cleaned as necessary to improve clarity with all 12 of the trenches being 1.80m wide.

2.2 The sides and base of trenches and the upcast spoil were examined visually as the evaluation progressed and a metal detector search was carried out in and around the trenches and across the site as a whole. Site visibility for features and finds is considered to have been good throughout the evaluation which was undertaken under dry and sunny weather conditions. At the end of the evaluation the location of the trenches were plotted from nearby mapped features and as the works progressed a full photographic record in digital format (see Appendix I) was taken.

3. Results

3.1 The relevant details for the evaluation trenches are summarised in the table below (see also Fig. 2 & Appendix I):

Trench	Orientation	Length (m)	Topsoil depth (mm)	Subsoil depth (mm)	Drift geology	Archaeological/natural features & finds
1	Northwest-southeast	12	200	200 of mid clay subsoil	Light grey very stiff chalky chalky clay with flints and pockets of very silty orange sand	No features or finds except a few small fragments of later Pmed brick and tile
2	Northeast-southwest	11	200	200 as T1	As T1	As T1
3	Northwest-southeast	11	200	200 as T1	As T1	As T1
4	Northeast-southwest	12	200	200 as T1	As T1	As T1
5	Northwest-southeast	11	200	200 as T1	As T1	As T1
6	Northeast-southwest	11	200	200 as T1	As T1	As T1
7	Northwest-southeast	12	200	200 as T1	As T1	As T1
8	Northeast-southwest	12	200	200 as T1	As T1	Late Pmed ceramic field drain along main axis
9	Northwest-southeast	12	200	300 as T1	As T1	As T1
10	Northeast-southwest	11	200	300 as T1	As T1	As T1
11	Northeast-southwest	12	200	300 as T1	As T1	As T1
12	North-south	11	200	300 as T1	As T1	As T1
		138 (248.40m ²)	200	200-300		The only feature was a field drain of recent date with the only finds being small fragments of brick and tile of later Pmed date and occasional clay tobacco pipe stem fragments

Table 1: Trench details

3.2 As outlined in table 1 above the trenches were 400mm to 500mm deep with 200mm of topsoil above 200mm to 300mm of mid brown clay subsoil. The natural glaciofluvial deposit across the site was consistently light grey very stiff chalky clay with flints and small pockets of very silty orange sand.

3.3 The only feature revealed was a ceramic field drain of later Post medieval date in trench 8 with the few stray finds seen in the upcast spoil being a few small fragments

of later Post medieval peg tile and brick and a few small stem fragments from clay tobacco pipes.

4. Conclusion

4.1 With largely negative results for archaeological deposits of any age from the evaluation trenching a search from the County Historic Environment Record for local sites and finds was not commissioned.

4.3 From these evaluation results it is recommended that no further archaeological works need to be carried out for this planned residential development on land at The Barn, Mill Road, Badingham.

Archive- to be deposited with the Suffolk CC Archaeological Service under the HER ref: BDG 073.

Disclaimer- any opinions regarding the need for further archaeological work in relation to this proposed development are those of the author's alone. Formal comment regarding the need for further work must be sought from the official Archaeological Advisors to the relevant Planning Authority.

(Acknowledgements: JNAS is grateful to everyone involved for their close cooperation during the evaluation)

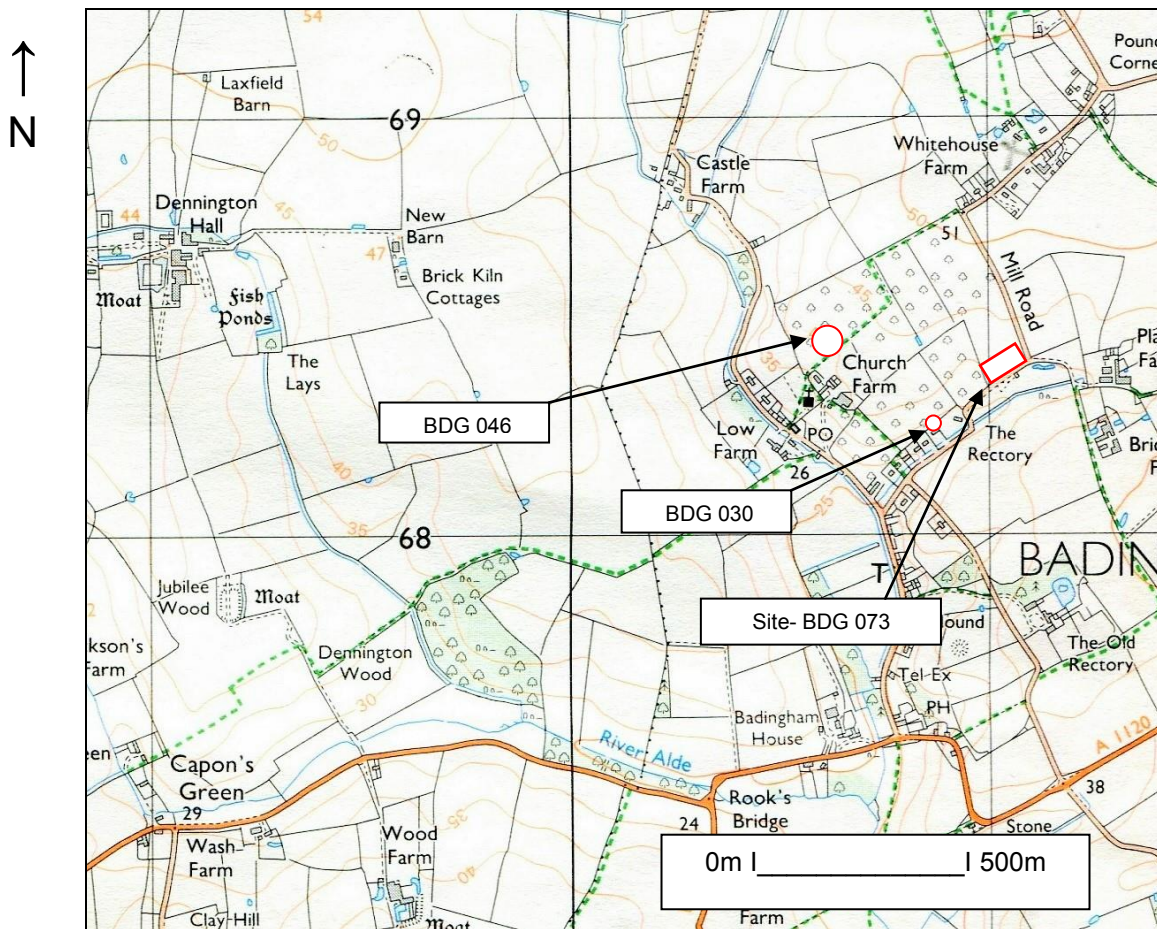


Fig. 1: Site location

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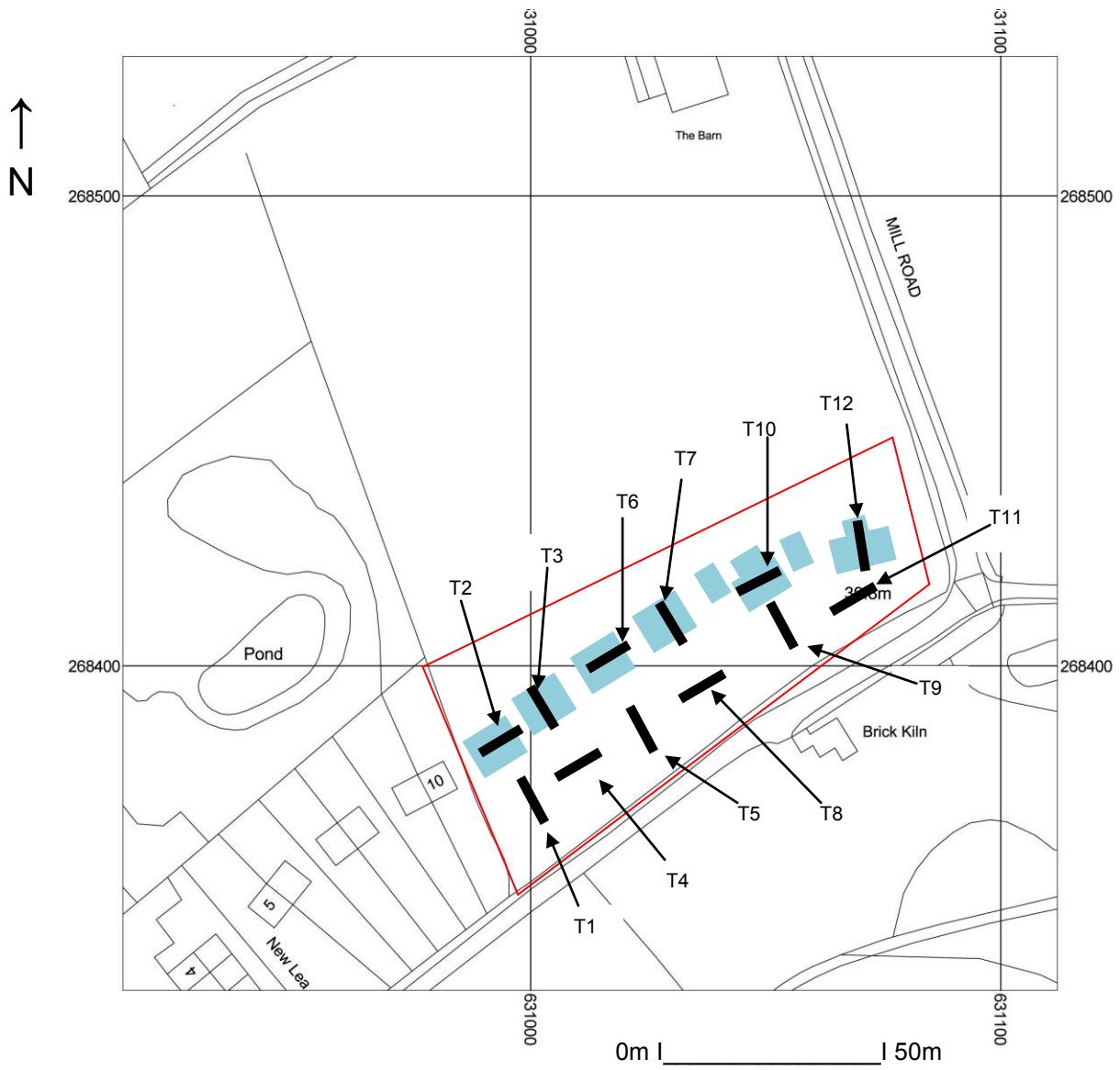


Fig. 2: Location of evaluation trenches

(Light blue- planned footprint areas)

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Appendix I- Images



General view from west



Trench 1 from north



Trench 2 from east



Trench 3 from east



Trench 4 from east



Trench 5 from north



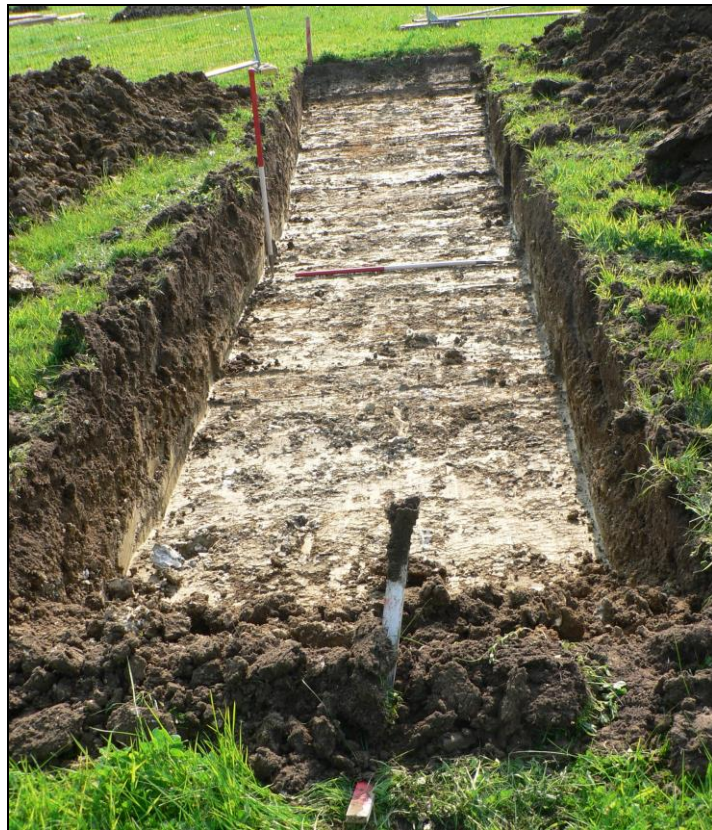
Trench 6 from east



Trench 7 from north



Trench 8 from east



Trench 9 from north



Trench 10 from east



Trench 11 from east



Trench 12 from south

**The Barn, Mill Road,
Badingham, Suffolk**

**Written Scheme of Investigation for
Archaeological Evaluation**

Site details

Name: The Barn, Mill Road, Badingham, Suffolk, IP13 8LF

Client: Avon Jack Properties LTD

Local planning authority: Suffolk Coastal DC

Planning application ref: DC/16/2997

Proposed development: Erection of 10 dwellings

Proposed date for evaluation: tbc

Brief ref: SCCAS Brief for a Trenched Archaeological Evaluation_201_2997 The Barn, Mill Road, Badingham

Grid ref: TM 3100 6840

Area: 0.5ha

Current site use: Agricultural land

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3. Archaeological & Historical Background
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5. Methodology
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Proposed location of trial trenches

John Newman Archaeological Services

1. Introduction

1.1 Avon Jack Properties Ltd have commissioned John Newman Archaeological Services (JNAS) to undertake the archaeological site evaluation on a residential development that has received consent to go ahead. This written scheme of investigation (WSI) details the background to the archaeological requirements for planning application DC/16/2997/FUL and how JNAS will implement the requirements of the Brief for Archaeological Evaluation set by Mrs R Abraham of the Suffolk CC Archaeological Service (SCCAS). The WSI will also set out how potential risks will be mitigated. This overall proposed development concerns the construction of 10 new dwellings on land at The Barn, Mill Road, Badingham.

1.2 The evaluation will be carried out to the standards set regionally in the *Standards for Field Archaeology in the East of England (EAA Occ. Papers 14, 2003)*, locally in *Requirements for Trenched Archaeological Evaluation 2017 (Suffolk CC)* and nationally in *Standards and Guidance for Archaeological Field Evaluation (Institute for Archaeologists 1994, revised 2001 & re-issued 2014)*.

1.3 The evaluation as detailed in this document is the first phase of a programme of archaeological investigation secured by negative condition on planning consent DC/16/2997/FUL. Where the results of the evaluation indicate the presence of heritage assets further archaeological works will be required to mitigate the impact of the development on the historic environment. The relevant SCCAS officer will identify the type and extent of works in a new brief necessary to adequately mitigate the impact of the proposed development. All further archaeological works, as recommended by SCCAS, must be undertaken in accordance with an additional WSI, submitted and approved by SCCAS and the LPA. All further archaeological investigations must be undertaken prior to commencement of development, unless specifically referenced as monitoring of groundworks in the subsequent brief and as outlined in the related WSI.

2. Location, Topography & Geology

2.1 Badingham parish is to the north-east of Framlingham in central Suffolk in a landscape historically characterised by a dispersed settlement pattern partly focused within parishes on the respective churches but also scattered round the numerous greens and along roads and lanes. The proposed development site (PDS) is located 450m east of the parish church which is close to a farm and a few houses in an area of generally dispersed settlement historically characterised by scattered farms and cottages linked by minor roads, byways and footpaths. The PDS is on the northern side of Mill Road and most recently has been under a grass cover.

2.2 The British Geological Survey describes the drift deposits as being chalky till with flints of the Lowestoft Formation with outwash sands, gravels, silts and clays. Essentially a mixed drift geology of post-glacial origins. The PDS is at 30m OD in an

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area of gentle topography with the land dropping away gently to the south towards a small water course.

3. Archaeological & Historical Background

3.1 To quote from the relevant brief 'This site lies in an area of high archaeological importance, recorded in the County Historic Environment Record, to the north of a prehistoric find spot (BDG 030) and to the east of a Roman finds scatter (BDG 046) that are indicative of further activity in the vicinity. As a result there is potential for encountering early occupation deposits at this location.'

A site evaluation by trial trenching is therefore required to:

- Identify the date, approximate form and purpose of any archaeological deposit, together with its likely extent, localised depth and quality of preservation.
- Evaluate the likely impact of past land uses, and the possible presence of masking colluvial/alluvial deposits.
- Establish the potential for the survival of environmental evidence.
- Provide sufficient information to construct an archaeological conservation strategy, dealing with preservation, the recording of archaeological deposits, working practices, timetables and orders of cost.

4. Aims of the Site Evaluation

4.1 As outlined in section 3 above the archaeological potential of the PDS relates to its location close to recorded evidence of earlier prehistoric and Roman period activity. Therefore the presence of archaeological deposits can be anticipated.

5. Methodology

5.1 The proposed development is for the construction of 10 dwellings. To inform the results of the evaluation if archaeological deposits are revealed a search will be commissioned from the County HER for the area within 500m of the PDS and the relevant invoice number will be included in the report.

5.2 The Brief requires a 5% by area trenched sample which equates to 140m of 1.8m wide trenching across the area of the overall development. This will be undertaken using a wide toothless ditching bucket on a suitably sized machine operated by an experienced driver with a trench plan as set out below. The machine will be closely supervised by an experienced archaeologist as the overburden is removed in shallow spits to the top of any archaeological deposits that are present, where hand investigation will start, or to expose the underlying drift geology which will be further hand cleaned and examined as required. The spoil will be stored adjacent to the excavated trench with top and sub soil kept separate to allow for

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subsequent sequential backfilling. No trenches will be backfilled until the relevant officer at SCCAS has been consulted and should any modification to the trench layout be required due to any unforeseen circumstances, such as local services, then SCCAS will be contacted immediately. A metal detector search will be carried out by an experienced operator at all stages of the evaluation including before the trenches are opened. The up cast spoil will also be closely examined for unstratified artefacts as evidence for past activity in rural areas in particular is often as evident via artefact scatters as by undisturbed archaeological deposits.

5.3 Site records will be made under a continuous and unique numbering system of contexts under an overall HER number obtained from the Suffolk CC HER beforehand in combination with an event number. All contexts will be numbered and finds recorded by context. Conventions compatible with the county HER will be used throughout the monitoring. Site plans will be drawn at 1:20 or 1:50 as appropriate and sections at 1:10 or 1:20 (all on plastic drawing film) and related to OS map cover. Sections will be levelled to a datum OD. A photographic record in high resolution digital images will be made of the site and exposed features.

5.4 As necessary and to define archaeological deposits exposed surfaces will be trowelled clean before appropriate hand investigation and recording. Exposed archaeological features will be sampled at standard levels with care being taken to cause minimum disturbance to the site consistent with evaluation to a level adequate to properly form a subsequent mitigation strategy. Significant features such as solid or bonded structural remains, building slots or post holes (where fills are sampled) will have their integrity maintained (and during backfilling). Otherwise for discrete, contained, features, sampling will be at 50%- possibly rising to 100% if requested, and 1m wide sampling slots across linear features. If human burial evidence is revealed the SCCAS Officer will be informed and the clear presumption must be to preserve such remains in situ with minimum disturbance during this evaluation stage. If this is not possible then a Ministry of Justice licence will be obtained prior to full on site recording (total 100% sampling if a cremation deposit) and removal of the remains followed by examination by the relevant specialist and possibly scientific dating. If human remains do have to be recorded, removed from site and reported on then these works will add an additional cost to the evaluation works which may involve radiocarbon dating (in this case the likelihood of revealing human burial evidence is assessed as being low).

5.5 All finds will be collected and processed unless any variation is agreed with the relevant SCCAS Officer. Finds will be assessed by recognised period specialists and their interpretation will form an integral part of the overall report. Finds will be stored according to ICON guidelines with specialist advice/treatment sought for fragile ones. Every effort will be made to gain the deposit of the site finds to the SCCAS Store under their relevant HER code and site numbering for future reference. If this is not possible then the SCCAS Officer will be consulted over any requirements for additional recording (which may have an additional cost implication). Any discard

policy will be discussed and agreed with the relevant SCCAS Officer and any finds that qualify under the Treasure Act will be reported to the local Finds Liaison Officer within 14 days.

5.6 Where appropriate palaeoenvironmental samples will be taken for processing and assessment by a specialist conversant with regional archaeological standards and research agendas. The sampling, processing and assessment will follow the guidelines as detailed in *Environmental Archaeology: A Guide to the Theory and Practice of Methods, from Sampling and Recovery to Post-excavation* (English Heritage, 2011). In accordance with standard practice bulk samples of 40 litres (or 100% of the deposit where less) will be taken from a representative cross section of archaeological deposits of all periods (respecting defined fills within features), in consultation with the relevant SCCAS Officer (and the Historic England Regional Scientific Advisor (RSA) if the deposits merit more targeted advice) including deposits that cannot be immediately dated by their artefact content, so the state of preservation and full archaeological and palaeoenvironmental potential of the deposits can be assessed and any further sampling, should further field work take place, be systematically planned and fully costed. Archaeological deposits of all types may reveal valuable data through the processing and assessment of samples with high priority features including the primary fills of pits, wells and cesspits, layers of middens, occupation surfaces and structural features as well as other discrete activity areas, contents of hearths, ovens, and other craft related or industrial structures. In addition more generalised settlement and land use features such as ditches may also yield valuable and informative data when sampling is undertaken systematically as the sum of all the assessment results can add considerably to the interpretation of a site and its landscape. Through an integrated study of all the data recovered from the evaluation the results from the assessment of the samples will be reviewed in terms of:

- What is the quality and state of preservation of charred plant remains, mineralised plant and animal related remains, small vertebrates and industrial residues such as evidence for iron working (contributing to the fullest interpretation of the evaluation results and to aid the planning of any further field work- if any RC dates are required for features containing suitable material but no easily dateable finds then this will incur an additional cost).
- What is the concentration of macro-remains (to inform sampling strategy in any further field work), in particular how might bulk sampling inform the interpretation of burial deposits.
- Can any patterning or similarities/differences be ascertained between deposits from different periods represented on site, similarly can any useful comparisons be made with undated and unphased deposits (to aid interpretation of the evaluation results and help in the study of undated

deposits which may otherwise be overlooked and which may via sampling yield material for RC dating)

- Do waterlogged deposits exist on site, if so is there potential for palaeoenvironmental data from preserved insects or pollen and do such deposits contain organic material suitable for RC dating from samples taken as advised by the relevant soil specialist (who would also coordinate the assessment for pollen and insect remains), the RSA will also be consulted in such cases in conjunction with the relevant SCCAS Officer. Incremental column samples will be taken should waterlogged deposits be revealed in close consultation with the evaluation soils specialist with 10-20 litre sample sizes which will be sub-sampled for preserved pollen, insects, diatoms, preserved parasite eggs etc. If waterlogged wood is encountered it will ideal to leave in situ, if it has to be lifted it will be packed while wet in black polythene and stored at 5C until it can be transferred to a specialist for species identification, assessment and potential for RC dating is undertaken (should RC dating be required in the evaluation on such deposits this will incur an additional cost and will take time to obtain, examination of the topographic location of the site indicates that the presence of waterlogged deposits is unlikely unless deep deposits are revealed).
- Deep blanket type deposits resulting from both natural and human derived actions and events can yield valuable land use and palaeoenvironmental information. In particular such deposits can form at the base of a slope, if located in the evaluation the relevant SCCAS Officer and RSA will be consulted over monolith sampling and assessment by the relevant evaluation specialist (the composition of such deposits may give information on past land use in the area through a study of the soil matrix notwithstanding additional data if it is waterlogged)

5.7 An archive of all records and finds will be prepared consistent with the principles of *MoRPHE* (and the guidelines in the Archaeological Archives Forum: a guide to best practice 2007). This archive will be deposited with the Suffolk CC HER within 3 months of working finishing on site under the relevant HER number and following the guidelines outlined in '*Archaeological Archives in Suffolk- Guidelines for preparation and deposition*' (SCCAS Conservation Team 2017). As necessary the site digital archive will deposited with the Archaeology Data Service (ADS) within the agreed allowance for the evaluation and reporting works.

5.8 The evaluation report will be consistent with the principles of *MoRPHE* and this report will summarise the methodology employed and relate the archaeological record directly to the aims of this WSI and section 4 above in particular. The report will give an objective account of the deposits and stratigraphy recorded and finds recovered with an inventory of the latter. The report will include an assessment of

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palaeoenvironmental remains recovered from palaeosols and cut features in relation to both dated and undated features and in terms of patterning across the site.

5.9 Any interpretation of the evaluation will be clearly separated from the objective account of the evaluation and its results and the results will be discussed with the relevant SCCAS Officer at an early stage in the reporting process following reporting on the day of the immediately apparent conclusions. The report will give a clear statement regarding the results of the site evaluation in relation to both the more detailed aims in section 4 above and their significance in the context of local HER records and of the Regional Research Framework (EAA Occ. Papers 3, 8 & 24, 1997, 2000 & 2011). There will be no further work on site until the evaluation results have been assessed and the SCCAS Officer has considered whether further archaeological works are required if this application receives consent. The report may give an opinion regarding the necessity for further evaluation work as appropriate. A draft copy of the report will be presented to SCCAS following completion of the site works. Once accepted a bound hard copy will be provided for the County HER with a digital version on disc. As required the site evaluation will be registered on the OASIS online archaeological record followed by submission of the final draft in .pdf format. An HER summary sheet will be completed and a summary prepared of any positive results for inclusion in the annual PSIAH round-up.

6. Risk Assessment

6.1 Protective clothing will be worn on site (hard hat, high visibility vest/coat, steel-toe cap boots, and ear muffs if required). A safe working method will be agreed with the machine operator for excavation of the trenches and examination of the up cast spoil while at the same time allowing efficient use of plant. Suitable clothing will be available to mitigate against extremes of weather.

6.2 Vehicles will be safely parked away from work areas and lines of access.

6.3 Prior to evaluation work starting on site the client will be consulted with regard to any potential contamination at the site. No overhead services impinge on the trench locations. Gloves and hand wash/wipes be available and any information on possible ground contamination revealed during the evaluation will be passed to finds and environmental specialists.

6.4 A fully charged mobile phone will be carried and a first aid kit will be taken to site.

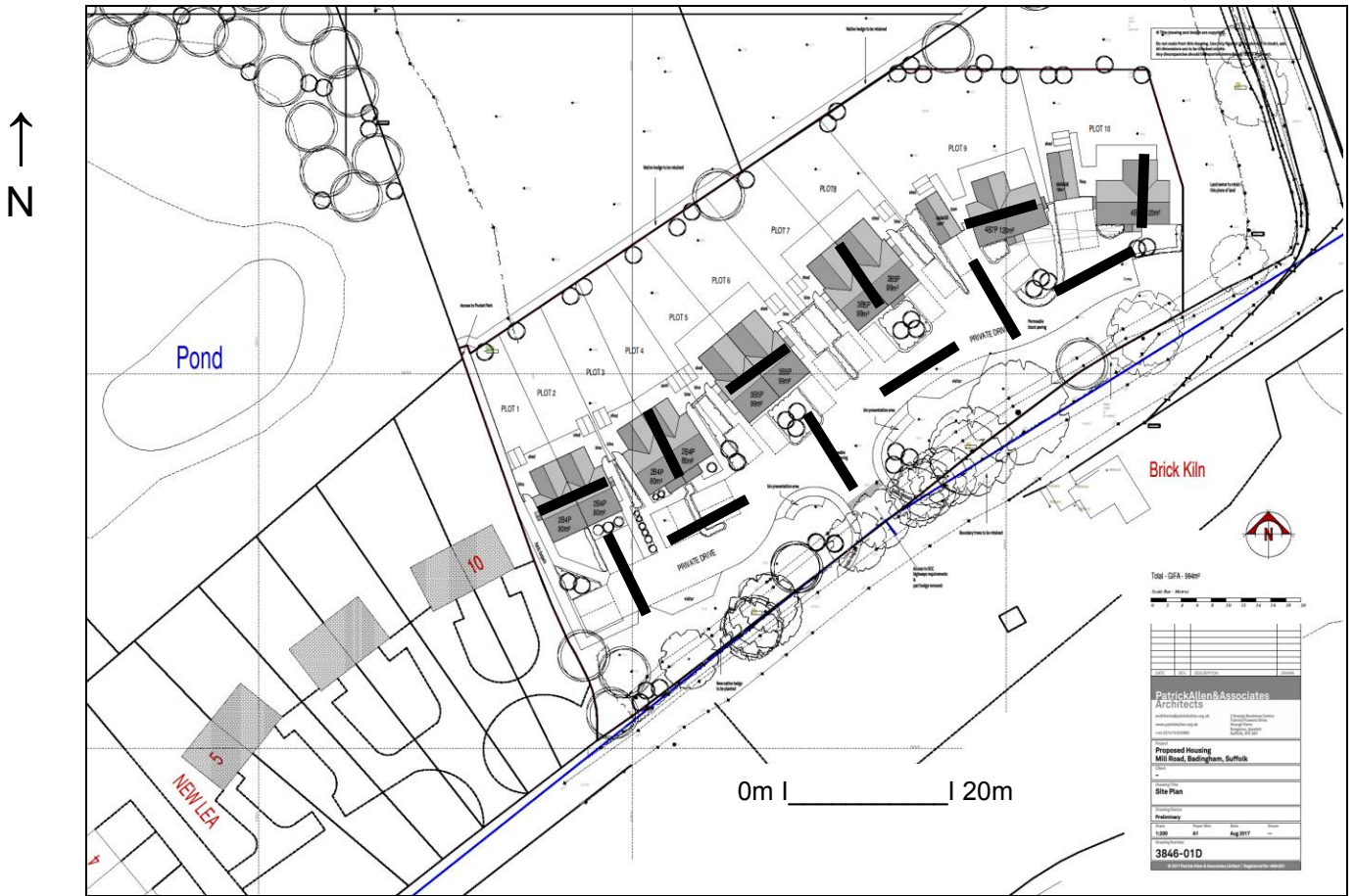
6.5 It is unlikely that any trench plus excavated feature depth will go below c1/1.3m from the present ground level. If any excavations need to go deeper measures such as stepping in the sides will be employed.

6.6 JNAS holds full insurance cover for archaeological site works from the specialist provider Towergate Risk Solutions covering Public & Products Liability, details can be supplied on request.

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7. Specialists

Conservation:	Conservation Services
Faunal remains:	J Curl (Sylvanus Archaeology)
Human remains:	S Anderson (Freelance)
Metal detecting:	J Armes (experienced freelance)
Palaeoenvironmental samples:	V Fryer (Freelance)
Soils specialist	R Macphail (UCL)
Pre-historic flint:	S Bates (Freelance)
Pre-historic pottery:	S Percival (Freelance)
Post Roman ceramics & CBM:	S Anderson (Freelance)
Roman period small finds:	N Crummy (Freelance)
Roman period ceramics:	S Benfield (CAT)
Medieval coins:	M Allen (Fitzwilliam Museum)
Post Roman small finds:	JNAS



Proposed location of trial trenches (6 x 11m & 6 x 12m)

OASIS ID: johnnewm1-316056

Project details

Project name	The Barn, Mill Road, Badingham, Suffolk- Archaeological Evaluation Report
Short description of the project	Badingham, The Barn, Mill Road (BDG 073, TM 3110 6839) evaluation trenching for a planned residential development close to a scatter of Roman period finds did not reveal any archaeological features or finds of any significance.
Project dates	Start: 08-05-2018 End: 08-05-2018
Previous/future work	No / No
Any associated project reference codes	BDG 073 - Related HER No.
Any associated project reference codes	DC/16/2997/FUL - Planning Application No.
Type of project	Field evaluation
Site status	None
Current Land use	Grassland Heathland 3 - Disturbed
Monument type	NONE None
Significant Finds	NONE None
Methods & techniques	"Sample Trenches"
Development type	Rural residential
Prompt	Planning condition
Position in the planning process	After full determination (eg. As a condition)
Project location	
Country	England
Site location	SUFFOLK SUFFOLK COASTAL BADINGHAM THE BARN, MILL ROAD
Postcode	IP13 8LF
Study area	5000 Square metres
Site coordinates	TM 3110 6839 52.264472684191 1.387151500568 52 15 52 N 001 23 13 E Point
Height OD / Depth	Min: 30m Max: 40m
Project creators	
Name of	John Newman Archaeological Services

Organisation	
Project brief originator	Local Authority Archaeologist and/or Planning Authority/advisory body
Project design originator	John Newman
Project director/manager	John Newman
Project supervisor	John Newman
Type of sponsor/funding body	Developer
Project archives	
Physical Archive recipient	Discarded
Physical Contents	"Ceramics"
Digital Archive recipient	Suffolk CC Archaeological Service
Digital Contents	"Ceramics"
Digital Media available	"Images raster / digital photography", "Text"
Paper Archive recipient	Suffolk CC Archaeological Service
Paper Contents	"Ceramics"
Paper Media available	"Report"
Project bibliography	
1	
Publication type	Grey literature (unpublished document/manuscript)
Title	The Barn, Mill Road, Badingham, Suffolk- Archaeological Evaluation Report
Author(s)/Editor(s)	Newman, J
Date	2018
Issuer or publisher	John Newman Archaeological Services
Place of issue or publication	Henley, Suffolk
Description	Loose bound client report and pdf
Entered by	john newman (johnnewman2@btinternet.com)
Entered on	9 June 2018