Historic building recording at the Coach House, Wakes Colne Mills, Colchester Road, Wakes Colne, Colchester, Essex, CO6 2BY

May 2021



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with contributions from Dr Pip Parmenter and Mark Baister

> fieldwork by Mark Baister

commissioned by Jonathan Dennis (Daniel Connal Partnership) on behalf of Mac Design & Build

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CAT Report 1698 November 2021

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1 Summary

A programme of historic building recording was carried out by Colchester Archaeological Trust of the coach house at Wakes Colne Mills, Colchester Road, Wakes Colne, Essex, in May 2021.

The coach house is located within a complex of buildings and associated with Wakes Colne Mills. It is thought that there has been some form of mill on the site since 1066, but the 19th century saw a period of huge expansion for the complex. It was during this period that the coach house was constructed. The coach house is a brick-built structure with timber-framed roof trusses. All of the timbers are machine-sawn and many display good examples of Baltic timber marks. Although known as a coach house the building was more probably utilised as a stable block and appears to lack the first floor coachmen's accommodation that is the defining feature of a coach house.

2 Introduction (Fig 1)

This is the archive report on a historic building recording of the coach house at Wakes Colne Mills, Wakes Colne, Colchester, in advance of the proposed conversion of the coach house into a dwelling. The recording work was commissioned by Jonathan Dennis (Daniel Connal Partnership) on behalf of Mac Design & Build, and carried out by Colchester Archaeological Trust (CAT) in May 2021. The coach house is located on the north side of the Wakes Colne Mill complex, specifically at NGR TL 89216 28398 (Figs 1).

A planning application was made to Colchester Borough Council in December 2018 (application No. 183046) for the demolition of solid fuel processing buildings; removal of built up hard surfaces against north wall of coach house with associated regrading of land; removal of wider coal yard hard surfaces; conversion of coach house to dwelling with single storey extension.

As the coach house is a curtilage listed building, a Historic England Level 2 building survey, prior to any conversion work taking place, was recommended by the Colchester Borough Council Archaeological Advisor (CBCAA). This recommendation is based on the guidance given in the National Planning Policy Framework (MHCLG 2019).

A Written Scheme of Investigation (WSI) for the building recording was prepared by Colchester Archaeological Trust (CAT 2021) and agreed with the CBCAA. All work was carried out in accordance with this WSI.

All work was carried out according to standards and practices contained in the Chartered Institute for Archaeologists' *Standard and guidance for the collection, documentation, conservation and research of archaeological materials* (2014a), Standard and guidance for archaeological investigation and recording of standing buildings or structures (2014b), Management of research projects in the historic environment (Historic England 2015), Standards for field archaeology in the East of England (EAA **14**) and *Research and Archaeology Revised: A Revised Framework for the East of England* (EAA **24**). In addition, the guidelines contained in Understanding Historic Buildings, A guide to good recording practice (Historic England 2016) were followed.

3 Aims

The aim of the building recording was to provide a detailed record and assessment of the outbuilding prior to its conversion. The building recording was carried out to Level 2 (Historic England 2016) which is defined as:

"...a descriptive record, made in similar circumstances to Level 1 but when more information is needed. It may be made of a building which is judged not to require a more detailed record, or it may serve to gather data for a wider project. Both the exterior and interior of the building will be seen, described and photographed. The

examination of the building will produce an analysis of its development and use and the record will include the conclusions reached, but it will not discuss in detail the evidence on which this analysis is based. A plan and sometimes other drawings may be made but the drawn record will normally not be comprehensive and may be tailored

to the scope of a wider project."

In particular the record considered the:

- Plan form of the site.
- Materials and method of construction.
- Date(s) of the structure.
- Original function and layout.
- Original and later fixtures and fittings.
- Significance of the site in its immediate local context.

4 Methodology

The following are included in this report:

- A documentary, cartographic and pictorial survey of the evidence pertaining to the history and evolution of the site.
- A large-scale block plan of the site.
- Annotated and phased elevations and floor-plans of the building at a scale of 1:150.
- A description of the building. The description addresses features such as materials, dimensions, method of construction and phasing.
- A photographic record, comprising digital photographs of both general shots and individual features. Selected examples of the photographic record are clearly tied into the drawn record and reproduced as fully annotated photographic plates supporting the text. The photographic record is accompanied by a photographic register detailing location and direction of shot (Appendix 1) and a full contact sheet of the photographs taken during the survey (Appendix 2).

5 Historical background (Fig 1)

By Dr Pip Parmenter

The following historical background has been compiled from the Colchester Historic Environment Record (CHER) accessed via the Colchester Heritage Explorer (<u>www.colchesterheritage.co.uk</u>) and the Essex Records Office (ERO).

The proposed development site is a 19th-century coach house within the historic mill complex of Wakes Colne Mills. Though not independently listed, the coach house is within the curtilage of the Grade II Listed watermill (NHLE 1224981, CHER MCC4590). It is thought that a mill has been on the site since 1066 but the present building and associated buildings are believed to largely date to the 19th century, during the middle of which the site was altered and extended by Beadel, Son and Chancellor. The mill complex continued to be used for the milling of flour until the 1970s when the mills and the associated buildings were converted into residential dwellings.

The mill complex is clearly visible on the 1777 Chapman and André map (Map 1). Two buildings and a mill wheel are marked and labelled as "*An Oil & Corn Mill*". Though it is hard to be precise due to the scale of the map, the northern of these two buildings appears to be slightly to the east of where the coach house is now located.



Map 1 Extract of the 1777 Chapman and André map, site location in purple.

The coach house is also absent on a map of Wakes Colne from 1801 (Map 2), though this map shows numerous buildings to the north of the mills and in the same area as the coach house would later be.



Map 2 Extract of a map of Wakes Colne dated 1801 with the mill complex highlighted in purple (ERO D/DHw P14)

A map dating to 1821 (Map 3) offers rather less detail of the complex - it gives the impression that by this time there are two main buildings on the site but it is possible that unlike the 1801 map, smaller ancillary buildings are just not represented. The western of the two buildings on this map appears to be to the south of the location of the current coach house and although the map is not in great detail, the shape appears quite different. It is more likely that this building is part of the main watermill.



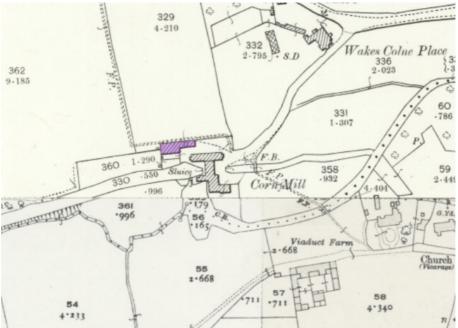
Map 3 Extract of a map of Wakes Colne dated 1821 with the mill complex highlighted in purple (ERO D/DHw P10)

It is likely that the site changed quite significantly between the drawing of the 1821 map and the 1881 OS map (Map 4), given the acquisition and development of the site by Beadel, Son and Chancellor. The coach house is clearly visible on the 1881 OS map of the site, immediately to the north-west of the watermill itself. At this time the mill is marked simply as a 'Corn Mill'.

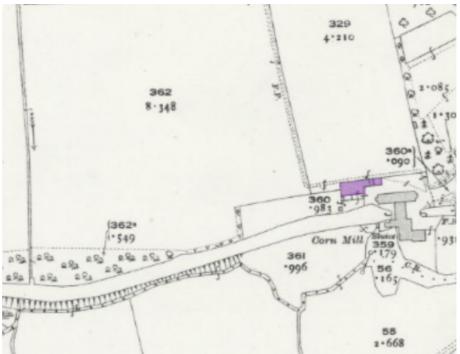


Map 4 Extract of the 1881 OS map with the coach house highlighted in purple.

There are no significant changes to the site between 1881 and the next iteration of the OS map in 1897 (Map 5) and no further significant changes are visible on any subsequent OS maps (Map 6 - 1923 and Map 7 - 1958).



Map 5 Extract of the 1897 OS map with the coach house highlighted in purple.



Map 6 Extract of the 1923 OS map. The coach house is highlighted in purple.



Map 7 Extract of the 1958 OS map. The coach house is highlighted in purple.

6 Building recording descriptive record (Figs 2-4)

The coach house is a brick-built structure aligned east-west, comprising a single-storey main range with a centrally-located two-storey cross-wing, measuring $23.4m \times 13.4m$ in plan. A secondary narrower single-storey range measuring $18.4m \times 7.1m$ in plan projects from the east end of the main range (Photograph 1). Each of the short elevations and those of the cross-wing are gabled and the entire structure is roofed in slate. The majority of the brickwork is laid in English-bond (brick measurements $234 \times 106 \times 65mm$) with queen closers around the original openings.



Photograph 1 South elevation of coach house - view north.

Exterior

The fenestration all have arched openings with wooden-framed windows. The walls of the building contains two lines (3 courses thick) of decorative brickwork, most visible on the western and southern elevations. The southern elevation of the building has a gabled cross-wing, the upper floor of which contains a pitching door of vertical planks and two three-light fixed windows (Photograph 2). The original barge boards and three timber corbels are also present. The ground floor of this has two three-light fixed windows flanking the main doorway.



Photograph 2 South elevation of the main range - view north.

On the west side of the main door opening there are limestone blocks with iron pintles for supporting hinges embedded in them, indicating the former presence of a stable door. To the west of the cross-wing there are two original doorways; the one closest to the cross-wing has been partially blocked with brickwork and a modern window (Photograph 3). At the extreme west end of the south elevation the second original doorway contains a modern timber and glass door (Photograph 4). As these doorways lack the limestone blocks used to support the stable door of the main opening they were probably entrances to tack rooms.



Photograph 3 Detail of blocked doorway with modern window on southern elevation of the main range – view north.



Photograph 4 Detail of modern door in original opening on the south elevation of the main range - view north.

To the east of the cross-wing there are two large six-light windows, original to the structure (Photograph 2). On the brickwork between these windows a series of parallel lines has been carved into the bricks, possibly some form of tally (Photograph 5)



Photograph 5 Detail of graffiti on south elevation of the main range – view north

The south elevation of the secondary range has a six-light window identical to those on the main range and two large original openings (Photograph 6). Although these openings have subsequently been blocked with modern garage doors the presence of limestone blocks with iron pintles surrounding the west opening indicate that this was originally covered by a set of double carriage doors. The east opening is without any evidence for limestone blocks which suggests the opening was never equipped with doors. Although speculative this may indicate that a more expensive carriage was stored behind the western opening and that the eastern bay held a working cart associated with the mills' activities.



Photograph 6 South elevation of the secondary range - view north



Although not an original feature, on the south side of the main range there is a modern brick floor where fragments of millstones have been used a decorative feature (Photograph 7).

Photograph 7 Detail of millstone fragments in brick floor in front of the main range to the coach house - view east.

The eastern elevation displays the gabled ends of the main and secondary ranges with the second storey of the cross-wing above (the wall of which is shown to be finished in whitepainted weatherboard rather than the brick which is common to the rest of the structure). The gable end of the main range has been substantially altered by the insertion of a pair of full height timber doors which has also removed much of the surrounding original brickwork (Photograph 8). However, enough of the original fabric survives to show that there was at least one stable door on this elevation, indicated by two limestone blocks with iron pintles to the southern edge of the elevation. The remains of a brick arch to the northern edge of the elevation indicates a second original opening, although it is unclear if this was for a window or a doorway. The brickwork of the gable itself has been completely replaced by modern timber-framed windows, although one original timber corbel survives.



Photograph 8 East elevation of the main range with an original stable door and second original opening compromised by later alterations – view west.

The eastern elevation of the secondary range is dominated by a large inserted garage doorway, surrounded by modern white-painted weather-boarding (Photograph 9).



Photograph 9 East elevation of the secondary range - view west.

Although the alterations to the east elevation of the secondary range have almost totally destroyed the original fabric, the presence of queen closers in the surviving brickwork on the south edge indicate that there was originally at least one doorway in this elevation. The original timber corbels and barge boards also survive.

The northern or rear elevation of the main range is obscured by the presence of a large outbuilding constructed from modern timbers and clad in sheets of corrugated iron. This is open to the north which allowed access to the northern elevation of the main range. The upper storey of the cross-wing has two bricked-up window openings with arched heads truncated by two modern openings, to the east a larger window opening (subsequently infiled) and to the west a pair of timber pitching doors with strap hinges (Fig 3 – photography not viable due to the presence of the modern outbuilding). On its ground floor the cross-wing has two original semi-circular window openings with arched heads. These have been blocked with brickwork laid in stretcher bond (Photograph 10).



Photograph 10 Blocked window on the north elevation of the cross-wing to the main range – view south.

The flanking bays on either side of the cross-wing have identical windows, also blocked, although the far western one has been completely removed by the insertion of a large rectangular opening, itself subsequently filled in with modern concrete blockwork.

The north elevation of the secondary range has only one of these original windows (also blocked) with the remainder of the elevation displaying panels of plain brickwork (Photograph 11). A timber-framed six-light window has been inserted into the easternmost of these. An original chimney-stack survives above the slates of the roof to the secondary range – this appears to be the only chimney associated with the building.

The western elevation (Photograph 12) has a double pitch roof resulting in two gable-ends with the two-storey cross-wing rising above. As with the east elevation this shows that the side of the cross-wing is formed from white-painted weatherboard rather than brickwork. The south gable comprises plain brickwork (the bands of decorative brickwork not withstanding) and it is likely that the northern gable end was also featureless prior to the replacement of the gable brickwork with six timber-framed windows (identical in construction to those inserted to the east elevation of the main range) and the insertion of a three-light window below this.



Photograph 11 North elevation of the secondary range – view south.



Photograph 12 West elevation of the main range - view east.

Interior

The interior of the main and secondary ranges comprises six rooms, five on the ground-floor (one of which was inaccessible at the time of the survey) and one room on the first-floor of the main range (Fig 2). The timbers that make up the roof and roof supports are machine-cut and original to the building. These display a large number of Baltic timber marks.

The largest room is located in and comprises the entire footprint of the main range (Room 1 on Fig 2) (Photograph 13) although inserted walls have created three small chambers in the west end (labelled Rooms 1a, 1b and 1c on Fig 2). The floor is of screeded concrete which either obscures or has replaced the original flooring which would have probably been formed from stable bricks. The ground-floor has five original posts, centrally located and aligned east to west although the central one has been relocated slightly to the north. The posts have straight-braces bolted on two sides and each support a tie-beam. There are a number of joists between the tie-beams supporting the floor of the cross-wing. Baltic timber marks are present on at least seven of these joists (Photograph 15). Mortices with the remains of sawn off tenons on the posts indicate this room was once subdivided (Photograph 14).



Photograph 13 Room 1 - view south-east.



Photograph 14 Empty mortices on post in Room 1 – view south-west.



Photograph 15 Detail of Baltic timber mark on joist supporting the first floor of Room 1 - view east.

In the single storey areas of the main range the roof trusses (Photograph 16) are also supported on the posts and tie-beams. These have inclined struts rising to support a pair of rafters, which meet at the top of a metal king-post, which also rises from the tie-beam. The rafters carry two purlins, supporting sarking boards which meet at a ridge-board.

Two splayed two-peg scarf joints were recorded in the purlins of the east end of Room 1.



Photograph 16 Truss above western end of Room 1 - view east.

In the west end of Room 1 are three inserted rooms (Rooms 1a, 1b and 1c). The two smaller rooms have brick walls (Flemish-bond, brick dimensions 230 x 110 x 65mm) and are contemporary with one another. The larger of the three is formed by a timber stud-wall (Photograph 17) and appears to be a slightly later addition.

The north wall displays evidence of extensive water damage, probably a direct result of the increase in ground level to the north of the coach house.



Photograph 17 Detail of inserted stud wall and original post in western end of Room 1 - view west.

The first-floor of the cross-wing (Room 6) is centrally located above Room 1 (Photograph 18). The composition of the trusses in the first-floor roof are identical to those on the ground floor. The existing wooden floor-boards appear to be later replacements and two openings in these floor-boards, formed by the removal of seven of the joists, provide access to the ground floor, although no staircase or ladder is present (Photograph 19). This was likely the location of the original access point for the first floor, probably a fixed ladder rather than a staircase. The presence of a door in the south wall and the unfinished nature of the exposed beams suggest the first floor was designed as a hay loft rather than accommodation for grooms or coachmen.



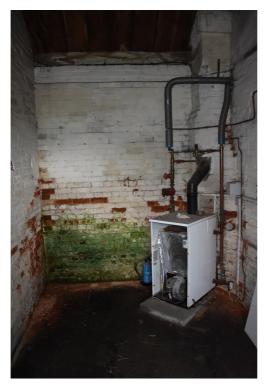
Photograph 18 Room 6 - view south.



Photograph 19 Cut joists in the flooring of Room 6 - view west.

The secondary range is accessed via a doorway in the east wall of Room 1 and comprises four rooms, labelled 2-5 on Fig 2. Rooms 4 and 5 are only accessible from the exterior of the building, which appears to have been an original arrangement. Room 5 was inaccessible at the time of the survey.

Room 2 has two original door openings with arched heads, one leading to Room 1 and the other to Room 3. Both door openings have a single vertical-planked door which are clearly replacements as the brick arches above the lintels have been partially filled in. The floor is concrete, unlikely to be original. In the north-east corner of Room 2 is an original fireplace and chimney-breast, now partially obscured by a modern boiler (Photograph 20). Baltic timber marks were recorded on the lower purlin on the northern roof pitch.



Photograph 20 Original fireplace and chimney breast in Room 2 – view north

Room 3 was originally a carriage store with full height carriage doors and Room 4 likely the same but without the doors. The openings to both rooms have had modern garage doorways with a stud-wall above inserted, although the garage door is missing from Room 4. In the wall plate of the northern elevation to Room 3 is a basic side-halved scarf joint (Photograph 21). Baltic timber marks were observed on the upper purlin of the southern roof pitch in room 4. The flooring in both rooms is concrete, again unlikely to be the original floor material.



Photograph 21 Detail of northern wall-plate scarf joint in Room 3 - view north.

7 Discussion

Wakes Colne Mills is a site comprising several buildings representing multiple phases of construction, with its watermill considered to be of national significance (Garwood 2008). The existing buildings were constructed in the early to mid 19th century, with the watermill altered and extended by Beadel, Son and Chancellor in c.1850. The cartographic evidence indicates that the coach house was likely constructed during this period of expansion and was certainly in existence by 1881. During the 19th century the mill produced both flour and oil and these heavy products would have required transporting by horse-drawn cart to the local villages and also to the railway at nearby Chappel station, hence the need for a coach house and stables.

Although much of the interior has been removed or altered, enough evidence remains to suggest that the main range was used predominantly as stabling, probably both for the mill's working horses and the riding and carriage horses of the mill owner. The stable doors on the south and east elevations of the main range would have provided equine access to at least six stalls ranged along the north wall with the hay loft above and the remaining area probably given over to tack storage. The rooms of the secondary range appear to have been intended for the care of the horses and storage for the carts/coach. The fireplace in Room 2 may have been for the convenience of the stable workers but is more likely to have been used to heat water for preparing bran mash, traditionally provided to horses during cold weather to increase water intake and prevent colic. The presence of a stable door in the east wall of Room 5 indicates the likely presence of another stall, possibly an isolation stall for sick or injured horses.

Numerous Baltic timber marks were observed on the frame of the coach house. Nearly all the marks that were decipherable bore the official quality mark associated with Danzig, a port in Prussia.

The importation of timber into Britain from the Baltic began in the 17th century, but increased dramatically during the 19th (Vandenabeele *et al.* 2016). The decline of local oak and other hardwood timbers in Britain was mainly due to increase in shipbuilding and the economic pressures and needs of the industrial revolution. Because suitable trees take a significant time to mature, in densely populated countries like Britain land could usually be far more profitably used for farming rather than the production of timber. The production of timber was (and still is) a much more viable industry in the more sparsely populated countries around the Baltic Sea.



Photograph 22 Example of a Baltic timber mark. Photograph enhanced for legibility.

The use of Baltic timber in the frame of the coach house, then, supports the cartographic evidence that it was constructed sometime in the 19th century, when the importing of such timbers rose sharply. That the entire timber-frame consists of machine-sawn timber further suggests that it was constructed sometime in the latter part of this century, after the machine-cutting techniques popularised by the Industrial revolution had fully replaced the use of hand-sawn timber.

Coach houses were constructed to house carriages in the ground-floor with living quarters for the drivers in the first-floor. With the preponderance of stabling over carriage storage at Wakes Colne Mills, it is probably more fitting to refer to the building as a stable block rather than a coach house. Either way, with the advent of modern transport, the building became redundant for its original purpose. In later years the coach house at Wakes Colne Mills seems to have to been used mainly for storage, with three of its rooms converted into garages, probably as part of the coal yard business that was in operation from the mid 20th century.

The exterior of the building retains many original features, notably the window heads, and it is a nice example of a mid 19th-century functional building executed in a style that reflects the wealth and importance of the mill complex of which it is a part.

8 Acknowledgements

Colchester Archaeological Trust would like to thank Jonathan Dennis (Daniel Connal Partnership) for commissioning and Mac Design & Build for funding the historic building recording.

The recording was carried out by Mark Baister.

Figures are by Sarah Veasey, based on original architect drawings by Daniel Connal Partnership.

The project was monitored by Dr Richard Hoggett and Dr Simon Wood for Colchester Borough Council.

The text was reviewed and edited by Philip Crummy, director of CAT.

9 References

Note: all CAT reports, except for DBAs, are available online in .pdf format at <u>http://cat.essex.ac.uk</u>

CAT	2020	 Written Scheme of Investigation (WSI) for an historic building recording and an archaeological evaluation on land to the north of Mill Buildings, Wakes Colne Mills, Colchester Road, Wakes Colne, Colchester, CO6 2B by S Carter 	
CBC	2020	Brief for Historic Building Recording and Archaeological Evaluation at Land to the North of Mill Buildings, Wakes Colne Mills, Colchester Road, Wakes Colne, Colchester, CO6 2BY by R Hoggett	
ClfA	2014a	Standard and guidance for the collection, documentation, conservation and research of archaeological materials	
ClfA	2014b	Standard and guidance for archaeological investigation and recording of standing buildings or structures	
Digital Curation Centre (DCC)	ation		
EAA 14	2003	<i>Standards for field archaeology in the East of England</i> East Anglian Archaeological occasional papers 14 by Gurney, D.	
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Vandenabeel e, L., Bertels, I., Wouters, I.	2016	<i>Baltic shipping marks on nineteeth-century timber: their deciphering and a proposal for an innovative characterization of old timber, Construction History, 31(2), 157-175</i>	

10 Abbreviations and glossary

CAT	Colchester Archaeological Trust
CBC	Colchester Borough Council
ClfA	Chartered Institute for Archaeologists
EHER	Essex Historic Environment Record, held by the ECC
ERO	Essex Records Office
English-bond	a brickwork bond created from alternate courses of headers and stretchers

Flemish-bond	a brickwork bond created from alternating headers and stretchers within a single course
HE	Historic Environment
joist	a horizontal timber that supports floorboards above. Will sometimes carry boarded or plastered ceilings
modern	period from the 19th century onwards to the present
NGR	National Grid Reference
OASIS	Online AccesS to the Index of Archaeological InvestigationS,
	http://oasis.ac.uk/pages/wiki/Main
pintle	an upright pivot on which a hinge rests
post	vertical members in a timber frame
purlin	a longitudinal timber giving support to the common rafters of a roof and normally set at right-angles to the slope of the rafters
rafter	an inclined timber following the slope of the roof
ridge-board	a plank-like timber running below the apex of the roof and receiving the ends of the rafters
stretcher-bond	a brickwork bond where each course consists of only stretchers – indicating a cavity wall
wall-plate	a timber running horizontally along the top of a wall to receive the ends of common rafters

11 Archive deposition

The paper archive is currently held by the Colchester Archaeological Trust at Roman Circus House, Roman Circus Walk, Colchester, Essex CO2 7GZ, but will be permanently deposited with Colchester Museum under CHER number ECC4613.

The digital archive resulting from the work will be deposited with the Archaeology Data Service (archaeologydataservice.ac.uk) to safeguard the long-term curation of the digital records. The CBCAA will be notified when the digital archive has been deposited. Prior to deposition CAT's data management plan (based on the official guidelines from the Digital Curation Centre [DCC 2013]) will ensure the integrity of the digital archive.

12 Contents of archive

Paper record

One A4 document wallet containing: The report (CAT Report 1698) Original site record (plans and notes) Site digital photos and log

Digital record

The CAT WSI The report (CAT Report 1698) Digital plans Site digital photos and log

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checked by: Philip Crummy *date:* 12th November 2021

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Appendix 1:		
Full digital photographic rec		
	Southern elevation of coach house - view north.	
ECC4613_Photograph_002.JPG	Southern elevation of the main range to the coach house - view north-west.	
ECC4613_Photograph_003.JPG	Southern elevation of coach house - view north.	
ECC4613_Photograph_004.JPG	Southern elevation of coach house - view north.	
ECC4613_Photograph_005.JPG	Detail of modern door on southern elevation of main range to the coach house - view north.	
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ECC4613_Photograph_008.JPG	Southern elevation of the secondary range to the coach house - view north.	
ECC4613_Photograph_009.JPG	Original window on southern elevation of the secondary range to the coach house - view north.	
ECC4613_Photograph_010.JPG	Blind windows on southern elevation of the secondary range to the coach house - view north.	
ECC4613_Photograph_011.JPG	Inserted modern garage door on east elevation of the main range to the coach house. Original limestone blocks for stable door visible to	
	the left of frame and the remains of an archway for a second opening visible to the right of frame - view west.	
ECC4613_Photograph_012.JPG	Interior of Room 4 - view north.	
ECC4613_Photograph_013.JPG	Roof above Room 4 - view north.	
ECC4613_Photograph_014.JPG	Modern garage door on east elevation of the secondary range to the coach house. Barge boards and corbels original - view west.	
ECC4613_Photograph_015.JPG	North elevation of the secondary range to the coach house - view south.	
ECC4613_Photograph_016.JPG		
ECC4613_Photograph_017.JPG	Blocked window on north elevation of secondary range to the coach house - view south.	
ECC4613_Photograph_018.JPG	Blocked window on north elevation of main range to the coach house - view south.	
ECC4613_Photograph_019.JPG	North elevation of the main range to the coach house - view south.	
ECC4613_Photograph_020.JPG ECC4613_Photograph_021.JPG	North elevation of the man range to the coach house - view south. Blocked modern window on north elevation of main range to the	
	coach house - view south.	
ECC4613_Photograph_022.JPG	house - view south.	
ECC4613_Photograph_023.JPG	Blocked window on north elevation of the main range to the coach house - view south.	
ECC4613_Photograph_024.JPG	Bottom of inserted pitching door in north elevation of the main range to the coach house - view south.	
ECC4613_Photograph_025.JPG	North-west corner of coach house, with modern concrete projecting west - view south.	
ECC4613_Photograph_026.JPG		
ECC4613_Photograph_027.JPG	North elevation of coach house, showing built-up ground level against northern elevation - view south-west.	
ECC4613_Photograph_028.JPG	West elevation of coach house - view east.	
ECC4613_Photograph_029.JPG	South elevation of main range to the coach house - view north-east.	
ECC4613_Photograph_030.JPG	Detail of first-floor pitching door and windows on south elevation of	
ECC4613_Photograph_031.JPG	the cross-wing - view north. North elevation of coach house with modern structures in front - view south.	
ECC4613 Photograph 032.JPG	North elevation of coach house - view south-west.	
ECC4613_Photograph_033.JPG	Detail of blocked arch on east elevation of main range to the coach house, adjacent to inserted garage door - view west.	
ECC4613_Photograph_034.JPG	Detail of weatherboarding, barge boards and corbels on east elevation of the secondary range - view north-west.	
ECC4613_Photograph_035.JPG	Detail of original window on southern elevation - view north.	
ECC4613_Photograph_036.JPG	Detail of graffiti on south elevation - view north.	
ECC4613_Photograph_037.JPG	Detail of modern door on southern elevation of main range to the	
	coach house, showing stone sill and limestone blocks for original	
	iron pintles - view north.	

ECC4613 Photograph 038.JPG Detail of courses of more heavily-fired brickwork on western elevation - view north-east. Detail of modern window on western elevation - view south-east. ECC4613 Photograph 039.JPG Detail of courses of more heavily-fired brickwork on western ECC4613 Photograph 040.JPG elevation - view east. ECC4613 Photograph 041.JPG Detail of millstone fragments in brick floor in front of coach house view east. ECC4613 Photograph 042.JPG Detail of original limestone blocks with iron pintles adjacent to main entrance of coach house - view north-west. ECC4613_Photograph_043.JPG Detail of later brick floor in front of southern elevation - view west. ECC4613_Photograph_044.JPG Detail of south-east corner of coach house, showing rebuilding and differing brickwork when garage door (to right of frame) added - view north-west. Original window on southern elevation of secondary range - view ECC4613 Photograph 045.JPG north. ECC4613_Photograph_046.JPG Detail of roof in Room 4, showing southern pitch and baltic timber mark - view south. ECC4613 Photograph 047.JPG Detail of roof in Room 4, showing southern pitch and baltic timber mark - view south. ECC4613 Photograph 048.JPG Room 1, showing inserted stud wall to west. Original posts visible in foreground - view west. ECC4613 Photograph 049.JPG Room 1, showing inserted brick W.C. - view west. ECC4613 Photograph 050.JPG Room 1, showing blocked window and inserted pitching-door on north elevation of the cross-wing - view north. ECC4613 Photograph 051.JPG Detail of inserted modern stud wall in west part of Room 1 - view south-west. ECC4613 Photograph 052.JPG Original (but relocated) post in Room 1 - view west. ECC4613_Photograph_053.JPG Original (but relocated) post in Room 1 - view east. ECC4613_Photograph_054.JPG Room 1, showing extensive water damage to northern wall - view north-east. ECC4613_Photograph_055.JPG Room 1 - view south-east. ECC4613_Photograph_056.JPG Inserted, and later blocked, window on north elevation of Room 1 view north. ECC4613 Photograph 057.JPG Room 1 - view south-west. ECC4613_Photograph_058.JPG Room 1 - view south-west. ECC4613 Photograph 059.JPG Room 1 - view north. ECC4613 Photograph 060.JPG Original window in south elevation of Room 1 - view south. ECC4613 Photograph 061.JPG Detail of water damage in Room 1's north-east corner - view northeast ECC4613 Photograph 062.JPG Detail of water damage along northern wall of Room 1 - view northwest. ECC4613_Photograph_063.JPG Eastern wall of Room 1. Original doorway with arch above leading into Room 2 - view east. ECC4613 Photograph 064.JPG Inserted garage door on eastern wall of Room 1, showing original blocked archway to left o f frame - view east. ECC4613_Photograph_065.JPG Empty mortices on post in Room 1, would have originally supported divisions within the room - view south-west. ECC4613_Photograph_066.JPG Sawn off tenons in the mortices on post in Room 1, would have originally supported divisions within the room - view south-east. ECC4613 Photograph 067.JPG Original unpainted post in Room 1, against modern inserted stud wall view west. ECC4613 Photograph 068.JPG Detail of mortices in original post in Room 1 - view north-west. ECC4613 Photograph 069.JPG Room 1, showing southern wall - view south-east. ECC4613 Photograph 070.JPG Detail of inserted stud wall and original post in western end of Room 1 -view west ECC4613 Photograph 071.JPG Roof truss above east end of Room 1 - view east. ECC4613 Photograph 072.JPG Roof truss above Room 1 - view south-west. ECC4613_Photograph_073.JPG Roof truss above western end of Room 1 - view west. ECC4613 Photograph 074.JPG Brick-built modern W.C. insertion into Room 1 - view south. ECC4613 Photograph 075.JPG Interior of brick-built modern W.C. Room 1c - view south. ECC4613_Photograph_076.JPG Northern wall of Room 1a, with modern boarding in western end of room. Showing blocked modern window - view north. ECC4613 Photograph 077.JPG Room 1a, in area converted to house a boiler (right of frame) - view south. ECC4613 Photograph 078.JPG Modern door on southern elevation of Room 1b - view south. ECC4613_Photograph_079.JPG Modern ceiling inserted above Room 1a - view north-west.

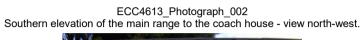
ECC4613 Photograph 080.JPG Original doorway, with later frame, leading into Room 2 from Room 1 - view east. ECC4613 Photograph 081.JPG Room 2, showing original fireplace to right with modern boiler in front - view north. ECC4613 Photograph 082.JPG Detail of original fireplace and chimney-stack in Room 2, with modern additions - view north-east. ECC4613 Photograph 083.JPG Room 2, door to left leading to Room 3 and door to right leading to Room 1 - view south. ECC4613_Photograph_084.JPG Doorway into Room 1 from Room 2, with arch above - view east. ECC4613_Photograph_085.JPG Northern roof pitch of Room 2, with Baltic timber marks - view northwest. ECC4613 Photograph 086.JPG Detail of Baltic timber marks in northern roof pitch above Room 2 view north. ECC4613 Photograph 087.JPG Floor of Room 3 - view east. ECC4613_Photograph_088.JPG Northern roof pitch above Room 3 - view north. ECC4613_Photograph_089.JPG Southern roof pitch above Room 3 - view south. ECC4613 Photograph 090.JPG Modern inserted stud wall and garage door in southern wall of Room 3 - view south. ECC4613 Photograph 091.JPG Blocked window in northern wall of Room 3 - view north. ECC4613 Photograph 092.JPG Detail of mortices in base of post in Room 1 - view south. ECC4613 Photograph 093.JPG Detail of roof above western end of Room 1 - view west. ECC4613 Photograph 094.JPG Detail of inserted pitching door and blocked opening on first-floor of Room 6's northern wall - view north-east. ECC4613 Photograph 095.JPG Room 6 first-floor above Room 1, showing pitching-door - south. ECC4613 Photograph 096.JPG Room 6, showing studs and roof structure - view south-west. ECC4613 Photograph 097.JPG Room 6, showing studs and roof structure - view south-east. ECC4613 Photograph 098.JPG Detail of studs of Room 6 - view east. ECC4613_Photograph_099.JPG Room 6, showing studs and roof structure - view south-east. ECC4613_Photograph_100.JPG Detail of studs in Room 6 - view west. ECC4613 Photograph 101 JPG Detail of binding-beam supporting Room 6, with cut joists - view west. ECC4613_Photograph_102.JPG Detail of recess cut into brickwork on modern W.C. addition to Room 1 - view west. ECC4613 Photograph 103.JPG Detail of bracing on original post in western end of Room 1, adjacent to modern studwork wall - view south-west. ECC4613 Photograph 104.JPG Detail of brick support beneath post at western end of Room 1 - view west. Detail of concrete/brick supports beneath posts in Room 1 - view ECC4613 Photograph 105.JPG east ECC4613 Photograph 106.JPG Baltic timber mark on joist supporting Room 6 - view east. ECC4613_Photograph_107.JPG Baltic timber mark on joist supporting Room 6. ECC4613_Photograph_108.JPG Baltic timber mark on joist supporting Room 6. Baltic timber mark on joist supporting Room 6. ECC4613_Photograph_109.JPG ECC4613 Photograph 110.JPG Baltic timber mark on joist supporting Room 6 - view south. Detail of large timber that was originally from mill machinerv ECC4613 Photograph 111.JPG supported on tie-beams above Room 1's eastern end - view northwest. Detail of large timber that was originally from mill machinery ECC4613_Photograph_112.JPG supported on tie-beams above Room 1's eastern end. ECC4613 Photograph 113.JPG Detail of large timber that was originally from mill machinery supported on tie-beams above Room 1's eastern end - view northwest. ECC4613 Photograph 114.JPG Detail of large timber that was originally from mill machinery supported on tie-beams above Room 1's eastern end - view northeast. ECC4613 Photograph 115.JPG Detail of Baltic timber mark on purlin above eastern end of Room 1 view north. ECC4613 Photograph 116.JPG Detail of Baltic timber mark on purlin above eastern end of Room 1 view north. ECC4613 Photograph 117.JPG Detail of Baltic timber mark on purlin above eastern end of Room 1 view south-west. ECC4613 Photograph 118.JPG Detail of Baltic timber mark on purlin above eastern end of Room 1 view south-west. ECC4613 Photograph 119.JPG Location of Baltic timber mark on joist of Room 6 - view south-east. ECC4613 Photograph 120.JPG Detail of Baltic timber mark on joist of Room 6. ECC4613_Photograph_121.JPG Location of Baltic timber mark on joist supporting Room 6 - view east.

ECC4613 Photograph 122.JPG Detail of Baltic timber mark on joist supporting Room 6 - view east. ECC4613 Photograph 123.JPG Detail of Baltic timber mark on joist supporting Room 6 - view east. ECC4613 Photograph 124.JPG Location of Baltic timber mark on joist supporting Room 6 - view north-west. ECC4613 Photograph 125.JPG Location of Baltic timber mark on joist supporting Room 6 - view north-west. ECC4613 Photograph 126.JPG Location of Baltic timber mark on joist supporting Room 6 - view north. ECC4613_Photograph_127.JPG Truss above western end of Room 1 - view east. ECC4613_Photograph_128.JPG Detail of joists supporting Room 6 - view north-east. ECC4613_Photograph_129.JPG Detail of possible Baltic timber mark on purlin above Room 1 - view east. ECC4613_Photograph_130.JPG Detail of arch above entrance into Room 1 from Room 2 - view west. ECC4613 Photograph 131.JPG Detail of southern wall of Room 3 - view south. ECC4613_Photograph_132.JPG Detail of northern wall of Room 3, showing scarf joint on wall-plate view north ECC4613 Photograph 133.JPG Detail of northern wall of Room 3, showing scarf joint on wall-plate view north. ECC4613 Photograph 134.JPG Detail of doorway into Room 2 from Room 3, with arch above - view west. ECC4613 Photograph 135.JPG Detail of possible Baltic timber marks on purlin above east end of Room 1 - view north. ECC4613 Photograph 136.JPG Posts in Room 1 view north-west. ECC4613 Photograph 137.JPG Detail of studwork in Room 6 - view east. ECC4613 Photograph 138.JPG Detail of studwork in Room 6 - view west. ECC4613 Photograph 139.JPG Possible Baltic timber marks on purlin supporting Room 6. ECC4613 Photograph 140.JPG Possible Baltic timber marks on purlin supporting Room 6. ECC4613_Photograph_141.JPG Detail of inserted post supporting the north-end of a binding-beam view north-west. Detail of blocked archway above inserted pitching-door on north wall ECC4613_Photograph_142.JPG of Room 6 - view north. ECC4613_Photograph_143.JPG Detail of blocked archway above inserted (and later blocked) opening in north wall of Room 6 - view north north. ECC4613 Photograph 144.JPG Detail of chimney on northern elevation of the secondary range, rising from Room 2 - view south-west. ECC4613 Photograph 145.JPG Detail of modern brick additions on northern elevation. Unknown purpose - view south-west. Room 4 - view south. ECC4613 Photograph 146.JPG ECC4613 Photograph 147.JPG Area of brickwork repair on southern elevation of coach house - view north. ECC4613 Photograph 148.JPG Southern and western elevations of coach house - view north-east. ECC4613_Photograph_149.JPG Western elevation of coach house with converted mill in background view east. ECC4613 Photograph 150.JPG Northern elevation of coach house, showing modern additions - view south.

Appendix 2: Full digital photographic record contact sheet



ECC4613_Photograph_001 Southern elevation of coach house - view north.



ECC4613_Photograph_004 Southern elevation of coach house - view north.



ECC4613_Photograph_003 Southern elevation of coach house - view north.



ECC4613_Photograph_005 ECC4613_Photograph_006 Detail of modern door on southern elevation of main range to the coach ho... Detail of blocked doorway with modern window on southern elevation of the...





ECC4613_Photograph_007 ECC4613_Photograph_008 ECC4613_Photograph_009
Detail of original windows on southern elevation of main range to the coach... Southern elevation of the secondary range to the coach house - view north. Original window on southern elevation of the secondary range to the coach





ECC4613_Photograph_012 Interior of Room 4 - view north.

ECC4613_Photograph_010 ECC4613_Photograph_011 Blind windows on southern elevation of the secondary range to the coach h... Inserted modern garage door on east elevation of the main range to the co...

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ECC4613_Photograph_013 Roof above Room 4 - view north.



ECC4613_Photograph_014 Modern garage door on east elevation of the secondary range to the coach...

ECC4613_Photograph_015 North elevation of the secondary range to the coach house - view south.



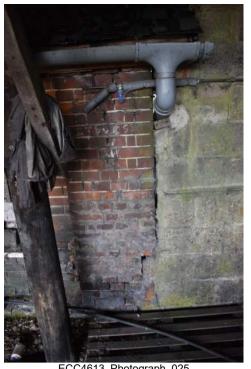
ECC4613_Photograph_016 ECC4613_Photograph_017 ECC4613_Photograph_018 North elevation of the secondary range to the coach house - view south. Blocked window on north elevation of secondary range to the coach house -... Blocked window on north elevation of main range to the coach house - view.





ECC4613_Photograph_022 ECC4613_Photograph_023 ECC4613_Photograph_024 Blocked window on north elevation of the main range to the coach house - ... Blocked window on north elevation of the main range to the coach house - ... Bottom of inserted pitching door in north elevation of the main range to the ...

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ECC4613_Photograph_025 North-west corner of coach house, with modern concrete projecting west - ...



ECC4613_Photograph_026 North elevation of coach house - view south-west.



ECC4613_Photograph_027 North elevation of coach house, showing built-up ground level against north...



ECC4613_Photograph_028 West elevation of coach house - view east.

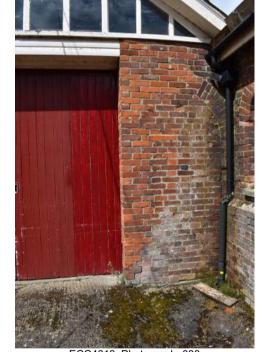


ECC4613_Photograph_029 South elevation of main range to the coach house - view north-east.



ECC4613_Photograph_030 Detail of first-floor pitching door and windows on south elevation of the cros...





ECC4613_Photograph_031 North elevation of coach house with modern structures in front - view south.

ECC4613_Photograph_032 North elevation of coach house - viewg south-west.

ECC4613_Photograph_033 Detail of blocked arch on east elevation of main range to the coach house, ...



ECC4613_Photograph_034 Detail of weatherboarding, bargeboard and corbels on east elevation of the ...

ECC4613_Photograph_035 Detail of original window on southern elevation - view north. ECC4613_Photograph_036 Detail of graffiti on south elevation - view north.

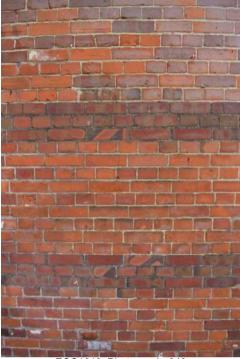
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ECC4613_Photograph_037 ECC4613_Photograph_038 Detail of modern door on southern elevation of main range to the coach ho... Detail of courses of more heavily-fired brickwork on western elevation - vie...



ECC4613_Photograph_039 Detail of modern window on western elevation - view south-east.









ECC4613_Photograph_043 Detail of later brick floor in front of southern elevation - view west.



ECC4613_Photograph_044 Detail of south-east corner of coach house, showing rebuilding and differin...



ECC4613_Photograph_045 Original window on southern elevation of secondary range - view north.



ECC4613_Photograph_046 ECC4613_Photograph_047 ECC4613_Photograph_048
Detail of roof in Room 4, showing southern pitch and baltic timber mark - vi... Detail of roof in Room 4, showing southern pitch and baltic timber mark - vi... Room 1, showing inserted stud wall to west. Original posts visible in foregr...

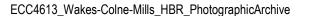
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ECC4613_Photograph_049 Room 1, showing inserted brick W.C. - view west.



ECC4613_Photograph_052 Original (but relocated) post in Room 1 - view west.







ECC4613_Photograph_050 ECC4613_Photograph_051 Room 1, showing blocked window and inserted pitching-door on north elev... Detail of inserted modern stud wall in west part of Room 1 - view south-west.



ECC4613_Photograph_053 Original (but relocated) post in Room 1 - view east.



ECC4613_Photograph_054 Room 1, showing extensive water damage to northern wall - view north-east.



ECC4613_Photograph_057 Room 1 - view south-west.



ECC4613_Photograph_058 Room 1 - view south-west.

ECC4613_Photograph_059 Room 1 - view north. Page 5/13

ECC4613_Photograph_060 Original window in south elevation of Room 1 - view south.



ECC4613_Photograph_061 Detail of water damage in Room 1's north-east corner - view north-east.









ECC4613_Photograph_064 ECC4613_Photograph_065 ECC4613_Photograph_066 Inserted garage door on eastern wall of Room 1, showing original blocked ... Empty mortices on post in Room 1, would have originally supported divisio... Sawn off tenons in the mortices on post in Room 1, would have originally supported divisio...



ECC4613_Photograph_067 Original unpainted post in Room 1, against modern inserted stud wall - vie...



ECC4613_Photograph_068 Detail of mortices in original post in Room 1 - view north-west.



ECC4613_Photograph_069 Room 1, showing southern wall - view south-east.



ECC4613_Photograph_070 Detail of inserted stud wall and original post in western end of Room 1 -vie...

ECC4613_Photograph_071 Roof truss above east end of Room 1 - view east.

ECC4613_Photograph_072 Roof truss above Room 1 - view south-west.

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ECC4613_Photograph_073 Roof truss above western end of Room 1 - view west.



ECC4613_Photograph_076 ECC4613_Photograph_077 Northern wall of Room 1a, with modern boarding in western end of room. S... Room 1a, in area converted to house a boiler (right of frame) - view south.

ECC4613_Photograph_074 Brick-built modern W.C. insertion into Room 1 - view south.





ECC4613_Photograph_079 Modern ceiling inserted above Room 1a - view north-west.





ECC4613_Photograph_075 Interior of brick-built modern W.C. Room 1c - view south.



ECC4613_Photograph_078 Modern door on southern elevation of Room 1b - view south.



ECC4613_Photograph_080 ECC4613_Photograph_081
Original doorway, with later frame, leading into Room 2 from Room 1 - view... Room 2, showing original fireplace to right with modern boiler in front - view...







ECC4613_Photograph_084 Doorway into Room 1 from Room 2, with arch above - view east.

ECC4613_Photograph_082 ECC4613_Photograph_083 Detail of original fireplace and chimney-stack in Room 2, with modern addit... Room 2, door to left leading to Room 3 and door to right leading to Room 1...

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ECC4613_Photograph_085 ECC4613_Photograph_086 Northern roof pitch of Room 2, with Baltic timber marks - view north-west. Detail of Baltic timber marks in northern roof pitch above Room 2 - view nor...



ECC4613_Photograph_088 Northern roof pitch above Room 3 - view north.





ECC4613_Photograph_089 Southern roof pitch above Room 3 - view south.



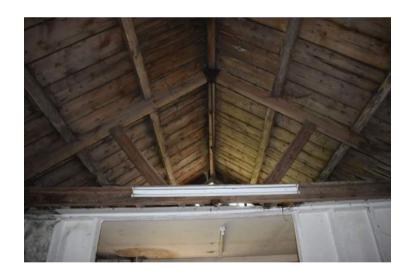
ECC4613_Photograph_092 Detail of mortices in base of post in Room 1 - view south.



ECC4613_Photograph_087 Floor of Room 3 - view east.



ECC4613_Photograph_090 Modern inserted stud wall and garage door in southern wall of Room 3 - vie...





ECC4613_Photograph_094 Detail of inserted pitching door and blocked opening on first-floor of Room ...

ECC4613_Photograph_095 Room 6 first-floor above Room 1, showing pitching-door - south. Page 8/13

ECC4613_Photograph_096 Room 6, showing studs and roof structure - view south-west.



ECC4613_Photograph_097 Room 6, showing studs and roof structure - view south-east.

ECC4613_Photograph_098 Detail of studs of Room 6 - view east.

ECC4613_Photograph_099 Room 6, showing studs and roof structure - view south-east.

ECC4613_Photograph_102 Detail of recess cut into brickwork on modern W.C. addition to Room 1 - vie...



ECC4613_Photograph_101 Detail of binding-beam supporting Room 6, with cut joists - view west.

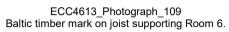
ECC4613_Photograph_100 Detail of studs in Room 6 - view west.





ECC4613_Photograph_106 Baltic timber mark on joist supporting Room 6 - view east. ECC4613_Photograph_107 Baltic timber mark on joist supporting Room 6. Page 9/13 ECC4613_Photograph_108 Baltic timber mark on joist supporting Room 6.







ECC4613_Photograph_110 Baltic timber mark on joist supporting Room 6 - view south.

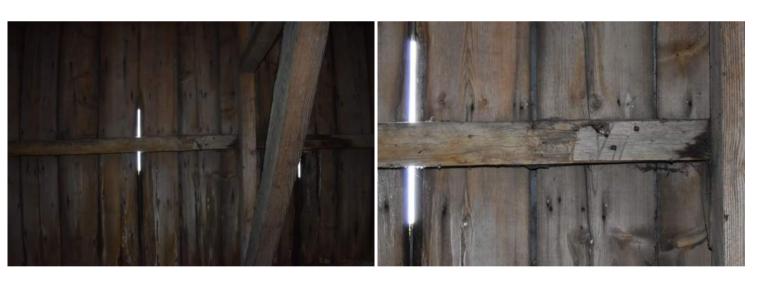


ECC4613_Photograph_111 Detail of large timber that was originally from mill machinery supported on ti...





ECC4613_Photograph_112 ECC4613_Photograph_113 ECC4613_Photograph_114
Detail of large timber that was originally from mill machinery supported on ti... Detail of large timber that was originally from mill machinery supported on ti...











ECC4613_Photograph_118 Detail of Baltic timber mark on purlin above eastern end of Room 1 - view s...

ECC4613_Photograph_119 Location of Baltic timber mark on joist of Room 6 - view south-east. Page 10/13 ECC4613_Photograph_120 Detail of Baltic timber mark on joist of Room 6.



ECC4613_Photograph_121 Location of Baltic timber mark on joist supporting Room 6 - view east.

ECC4613_Photograph_122 Detail of Baltic timber mark on joist supporting Room 6 - view east.

ECC4613_Photograph_123 Detail of Baltic timber mark on joist supporting Room 6 - view east.



 FC4613 Photograph 125



ECC4613_Photograph_124 ECC4613_Photograph_125 Location of Baltic timber mark on joist supporting Room 6 - view north-west. Location of Baltic timber mark on joist supporting Room 6 - view north-west.

ECC4613_Photograph_126 Location of Baltic timber mark on joist supporting Room 6 - view north.

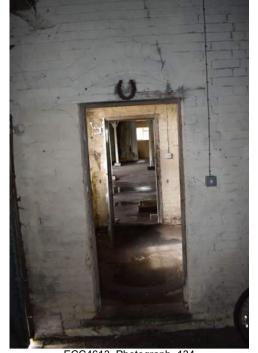




ECC4613_Photograph_130 Detail of arch above entrance into Room 1 from Room 2 - view west. ECC4613_Photograph_131 Detail of southern wall of Room 3 - view south. Page 11/13 ECC4613_Photograph_132 Detail of northern wall of Room 3, showing scarf joint on wall-plate - view n...









ECC4613_Photograph_133 ECC4613_Photograph_134 ECC4613_Photograph_135 Detail of northern wall of Room 3, showing scarf joint on wall-plate - view n... Detail of doorway into Room 2 from Room 3, with arch above - view west. Detail of possible Baltic timber marks on purlin above east end of Room 1 -...



ECC4613_Photograph_136 Posts in Room 1 view north-west.



ECC4613_Photograph_137 Detail of studwork in Room 6 - view east.

ECC4613_Photograph_138 Detail of studwork in Room 6 - view west.





ECC4613_Photograph_141 Detail of inserted post supporting the north-end of a binding-beam - view n...





ECC4613_Photograph_142 ECC4613_Photograph_143 ECC4613_Photograph_144
Detail of blocked archway above inserted pitching-door on north wall of Ro... Detail of blocked archway above inserted (and later blocked) opening in nor... Detail of chimney on northern elevation of the secondary range, rising from...

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ECC4613_Photograph_145 Detail of modern brick additions on northern elevation. Unknown purpose - ...



ECC4613_Photograph_146 Room 4 - view south.

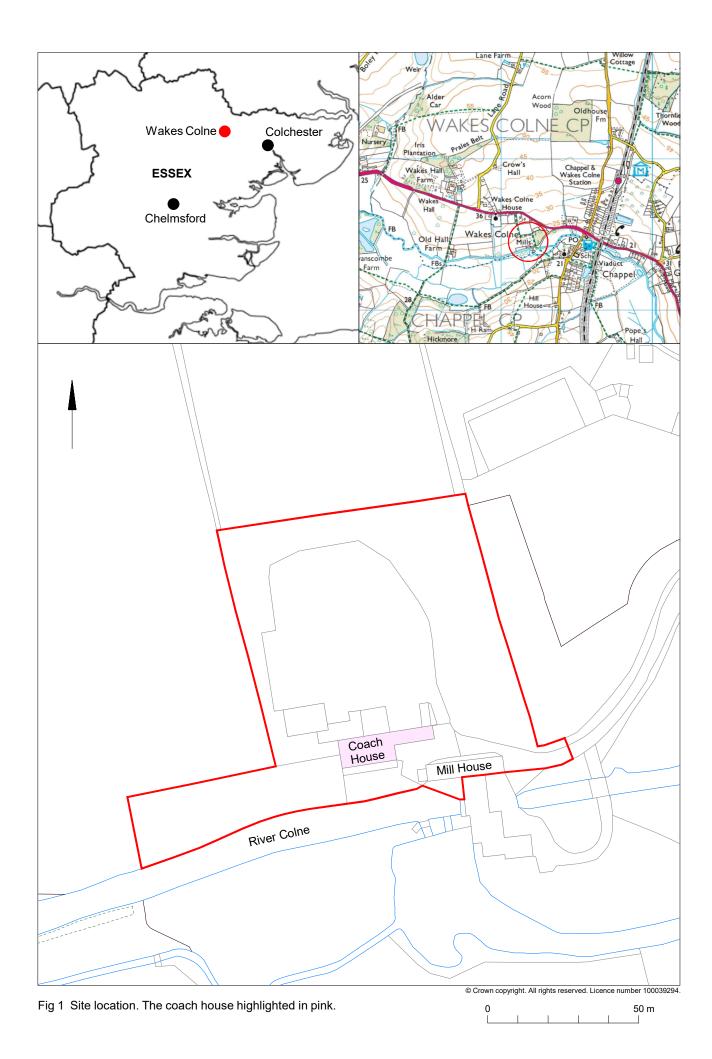


ECC4613_Photograph_147 Area of brickwork repair on southern elevation of coach house - view north.



ECC4613_Photograph_148 Southern and western elevations of coach house - view north-east. ECC4613_Photograph_149 ECC4613_Photograph_150 Western elevation of coach house with converted mill in background - view ... Northern elevation of coach house, showing modern additions - view south.

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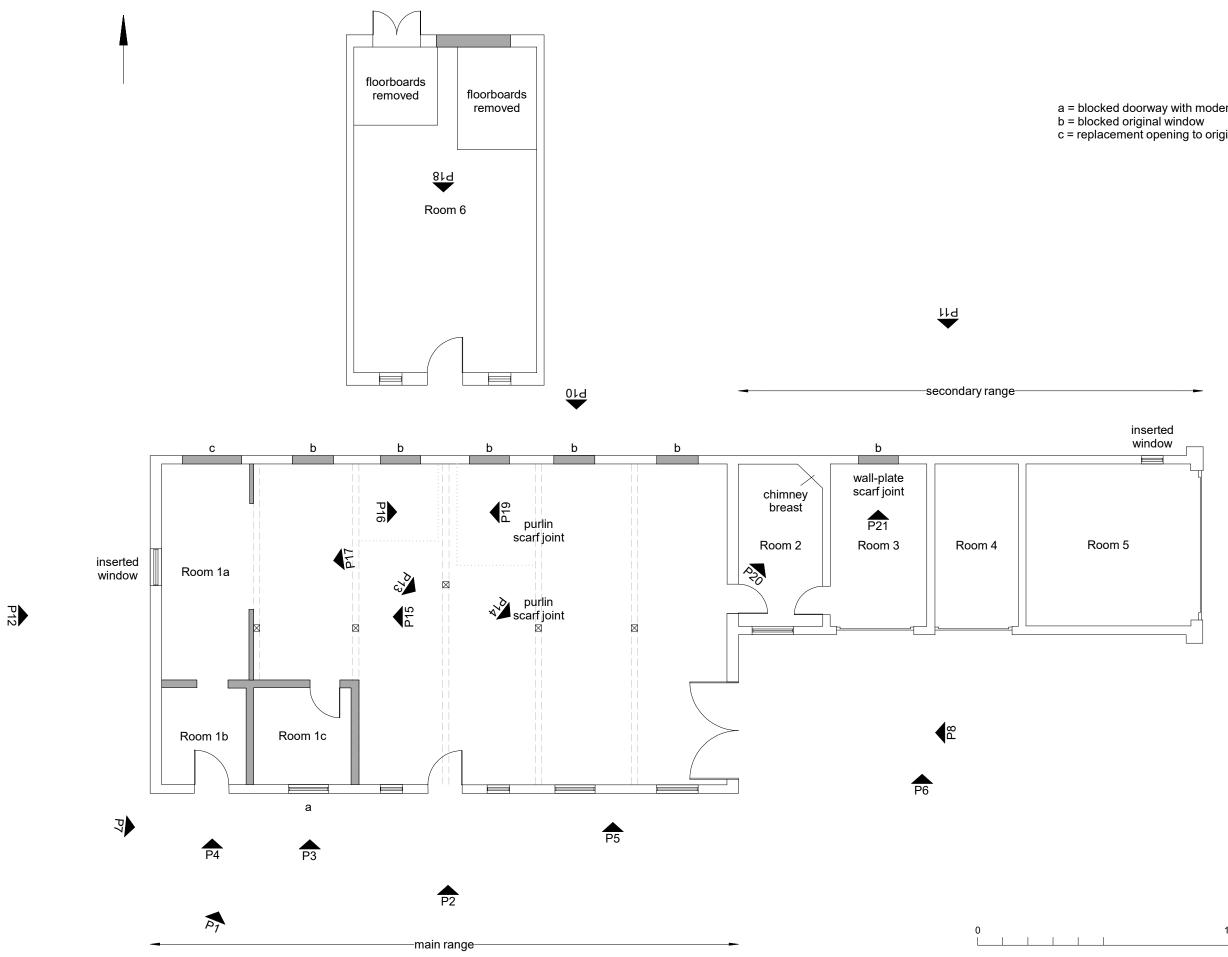
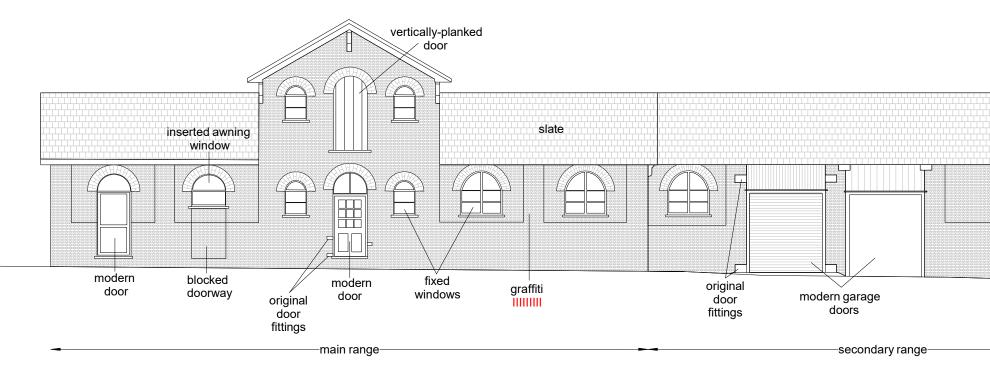
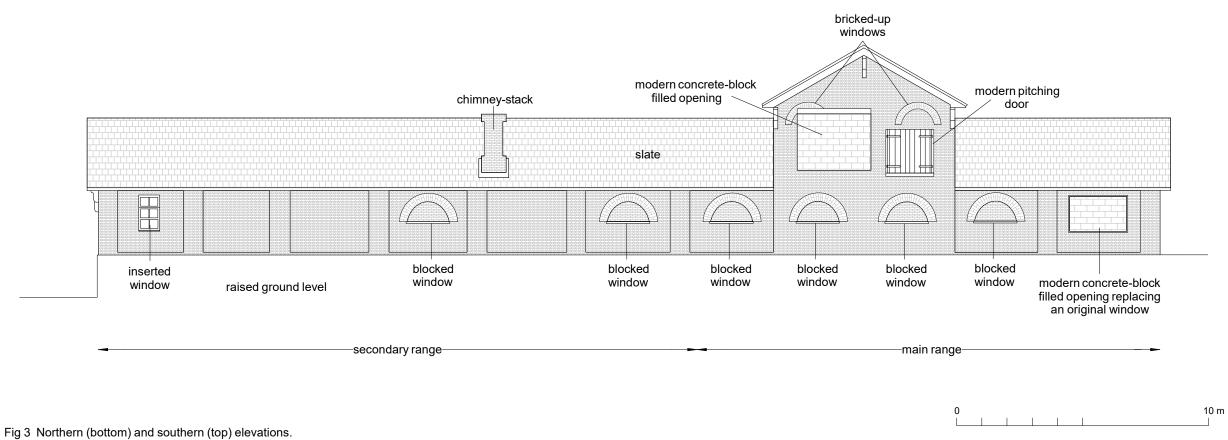


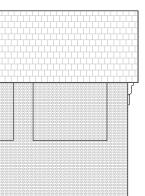
Fig 2 Floor plans. Location and direction of photographs reproduced in text shown.

a = blocked doorway with modern window b = blocked original window c = replacement opening to original window









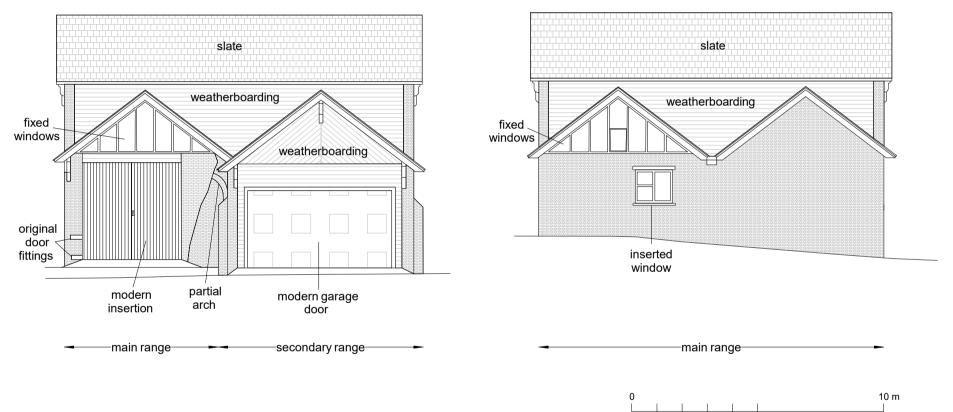


Fig 4 Eastern (left) and western (right) elevations.

Essex Historic Environment Record/ Essex Archaeology and History

Summary sheet

Address: The Coach House, Wakes Colne Mills, Colchester		
Road, Wakes Colne, Colche	ster, Essex CO6 2BY	
Parish: Wakes Colne	District: Colchester	
NGR: TL 89216 28398 (centre)	<i>Site code:</i> CAT project ref.: 2021/03z CHER ref: ECC4613 OASIS ref: colchest3-418913	
Type of work:	Site director/group:	
Historic Building Recording	Colchester Archaeological Trust	
<i>Date of work:</i> May 2021	Size of area investigated: -	
Location of curating museum:	Funding source:	
Colchester museum	Mac Design & Build	
<i>Further seasons anticipated?</i> No	Related CHER/EHER number(s): CHER: MCC4590	
Final report: CAT Report 1698		
Periods represented: modern		
Summary of fieldwork results: A programme of historic building recording was carried out by Colchester Archaeological Trust of the coach house at Wakes Colne Mills, Colchester Road, Wakes Colne, Essex, in May 2021.		
The coach house is located within a complex of buildings and associated with Wakes Colne Mills. It is thought that there has been some form of mill on the site since 1066, but the 19th century saw a period of huge expansion for the complex. It was during this period that the coach house was constructed. The coach house is a brick-built structure with timber-framed roof trusses. All of the timbers are machine-sawn and many display good examples of Baltic timber marks. Although known as a coach house the building was more probably utilised as a stable block and appears to lack the first floor coachmen's accommodation that is the defining feature of a coach house.		
Previous summaries/reports: -		
CBC monitor: Dr Simon Wood		
Keywords: coach house, stable	Significance: *	
Author of summary: Chris Lister	<i>Date of summary:</i> November 2021	

Written Scheme of Investigation (WSI) for an historic building recording and an archaeological evaluation on land to the north of Mill Buildings, Wakes Colne Mills, Colchester Road, Wakes Colne, Colchester, C06 2BY.

NGR: TL 89216 28398 (centre) District: Colchester Parish: Wakes Colne

Planning references: 183046

Commissioned by: Jonathan Dennis (Daniel Connal Partnership) **On behalf of:** Mac Design & Build

Curating museum: Colchester CHER number: HBR: ECC4613 EVAL: ECC4612

CAT project code: HBR: 2021/03z EVAL: 2021/03aa OASIS project number: HBR: colchest3-418913 EVAL: colchest3-418915

Site manager: Chris Lister **CBC monitor:** Dr Richard Hoggett

This WSI written: 09/04/2021



COLCHESTER ARCHAEOLOGICAL TRUST, Roman Circus House, Roman Circus Walk, Colchester, Essex, CO2 7GZ

tel: 01206 501785 *email:* <u>sc@catuk.org</u>

Site location and description

The proposed development site is located on land north of Mill Buildings, Wakes Colne Mills, Colchester Road, Wakes Colne, Colchester, CO6 2BY (Fig 1). The site is centred on National Grid Reference (NGR) TL 89216 28398.

Proposed work

The development comprises the demolition of demolition of solid fuel processing buildings, removal of built-up hard surfaces against the north wall of the coach house, removal of wider coal yard hard surfaces and the conversion of the coach house into a single dwelling with a single-storey extension.

Archaeological background

The following archaeological background draws on the Colchester Historic Environment Record (CHER, ECC/MCC numbers) accessed via the Colchester Heritage Explorer (www.colchesterheritage.co.uk).

The coach house is a curtilage Grade II listed building, associated with Wakes Colne Mill and House (NHLE 1224981, MCC4590). The mill dates to c 1850, it bas been a corn and oil mill that has used both waterpower and electricity.



Map 1 Extract of the 1st edition OS Map (1876), development site in red.

275m south-east of the development site is the chapel of St Barnabas (MCC10030-1). A small church and churchyard, recorded in 1285 but claimed to have been erected in 1352. 300m to the north-west is the site of All Saints Church (NHLE 1225059, MCC4619, MCC7004-6, MCC10029), a 12th-century church with later alterations.

Roman pottery sherds (MCC7037) have been recovered approximately 100m north, possibly indicating Roman occupation nearby.

To the east of the development site a number of WWII defences have been recorded and destroyed, these include a road barrier (MCC5136), a pillbox (MCC5135), an ammunition shelter (MCC5527). Three pillboxes (MCC7495-8) still exist. Monitoring works undertaken by

CAT in 2019 uncovered the remains of a WWII camp (CAT Report 1622, ECC4588), 725m to the north-west of the development site.

Project background

A planning application was made to Colchester Borough Council in December 2018 (application No. 183046) for the *demolition of solid fuel processing buildings; removal of built up hard surfaces against north wall of coach house with associated regrading of land; removal of wider coal yard hard surfaces; conversion of coach house to dwelling with single storey ext.*

As the site lies within an area highlighted by the CHER as having a high potential for archaeological deposits, an archaeological condition was recommended by the Colchester Borough Council Archaeological Advisor (CBCAA). The recommended archaeological condition is based on the guidance given in the *National Planning Policy Framework* (MHCLG 2019).

Requirement for work (Fig 1)

The required archaeological work is for an historic building recording followed by an archaeological trial-trenching evaluation. Details are given in a Project Brief written by CBCAA (CBC 2021).

Specifically,

1) An Historic England Level 2 historic building recording will be undertaken on the coach house prior to any conversion works.

The record will consider:

- Plan form of the site
- Materials and method of construction
- Date(s) of the building
- Function and internal layout
- Fixtures and fittings
- · Context of the coach house within its immediate contemporary landscape
- 2) After the HBR, two linear trial-trenches will be evaluated. These will be positioned within the footprint of the proposed new dwelling (see Fig 2). Both trenches will measure 25m long by 1.8m wide. This equates to 50m in length or trenching covering an area of 90m².

Aims of the archaeological evaluation is to target:

- 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, condition and significance of environmental evidence.
- Establish an archaeological deposit model for below-ground archaeological remains across the site.
- Provide sufficient information to construct an archaeological conservation strategy, dealing with preservation, the recording of archaeological deposits, working practices, timetables and orders of cost.

Further archaeological investigation could be required if unusual deposits or other archaeological finds of significance are recovered, this decision will be made by the CBCAA and will be the subject of an additional brief and WSI.

General methodology

All work carried out by CAT will be in accordance with:

- professional standards of the Chartered Institute for Archaeologists, including its Code of Conduct (ClfA 2014a, b)
- Standards and Frameworks published by East Anglian Archaeology (Gurney 2003, Medlycott 2011)
- relevant Health & Safety guidelines and requirements (CAT 2020)
- the Project Brief issued by the CBCAA (CBC 2021).

Professional CAT field archaeologists will undertake all specified archaeological work, for which they will be suitably experienced and qualified.

Notification of the supervisor/project manager's name and the start date for the project will be provided to CBCAA one week before start of work.

Unless it is the responsibility of other site contractors, CAT will study mains service locations and avoid damage to these.

At the start of work (immediately before fieldwork commences) an OASIS online record <u>http://ads.ahds.ac.uk/project/oasis/</u> will be initiated and key fields completed on Details, Location and Creators forms. At the end of the project all parts of the OASIS online form will be completed for submission to CHER. This will include an uploaded .PDF version of the entire report.

A unique HER event number will be obtained from the CBCAA prior to the commencement of fieldwork. The curating museum will be notified of the details of the project and the event code, which will be used to identify the project archive when depositing at the end of the project.

Staffing

The number of field staff for this project is estimated as follows:

HBR: one historic building recorder for one day.

Evaluation: one CAT officer and two archaeologists for one day.

In charge of day-to-day site work and historic building recording: Mark Baister

Historic building recording methodology

A Historic England Level 2 building survey of the outbuilding will be carried out prior to its demolition. The resultant report will include the following:

A brief documentary and cartographic survey will be made of the evidence relating to the history and evolution of the site.

A large-scale block plan will be made of the site using existing architect's drawings or the current OS 2500 map extract. The position of the building will be shown and any adjacent buildings will be given a unique number noting date of construction and function (where known).

The building will be described in as much detail as possible. The description will address materials, dimensions, method of construction, joinery, fenestration, spatial configuration, phasing, and any evidence of original fixtures/fittings.

Based on existing architect's plans and using the RCHME (1996) conventions floor plans at scale 1:100 will be made of the building/s affected by the proposals. Doors, windows, internal divisions, truss positions, together with any surviving fixtures/fittings will be shown together with any evidence of phasing.

A full photographic record will be made comprising both general and detailed shots (external and internal/features/joinery/timber marks/etc). A photographic scale should be included in the case of detailed photographs. The photographic record will be accompanied by a photographic register detailing (as a minimum) location and direction of shot; where possible, the photographic record will be tied into the drawn record.

The guidelines contained in Historic England: *Understanding Historic Buildings. A guide to good recording practice* (2016a) will be adhered to. In addition, RCHME: *Descriptive Specification* 3rd Edition, CIfA's Standard and Guidance for the Archaeological Investigation and Recording of Standing Buildings or Structures (2014) and the appropriate sections of the *Standards for Field Archaeology* in the East of England (East Anglian Archaeology occasional paper **14**, 2003) and *Research and Archaeology Revised: A Revised Framework for the East of England* (EAA **24**, 2011) and *Management of research projects in the historic environment* (MoRPHE, 2016b) will be used for additional guidance in the design of the project specification, the contents of the report, and for the general execution of the project.

Evaluation methodology

Where appropriate, modern overburden and any topsoil stripping/levelling will be performed using a mechanical excavator equipped with a toothless ditching bucket under the supervision and to the satisfaction of a professional archaeologist. If no archaeologically significant deposits are exposed, machine excavation will continue until natural subsoil is reached.

Where necessary, areas will be cleaned by hand to ensure the visibility of archaeological deposits.

If archaeological features or deposits are uncovered time will be allowed for these to be excavated, planned and recorded.

All features or deposits will be excavated by hand. This includes a 50% sample of discrete features (pits, etc), 10% of linear features (ditches, etc) in 1m wide sections, and 100% of complex structures/features. Complex archaeological structures such as walls, kilns, ovens or burials will be carefully cleaned, planned and fully recorded, but where possible left *in situ*. Only if it can be demonstrated that the complex structure/feature is likely to be destroyed by groundworks will it be removed, or on the rare occasion where full excavation (or exhumation in the case of burials) is necessary to achieve the objectives of the evaluation.

Burials, if encountered, will be left *in situ* at this evaluation stage with an on site human bone specialist available to record as much information as possible (see human remains section below).

Fast hand-excavation techniques involving (for instance) picks, forks and mattocks will not be used on complex stratigraphy.

A sondage will be excavated in each trench to test the stratigraphy of the site. This will occur in every trench unless it can be demonstrated that a feature excavated within a particular trench has clearly penetrated into natural.

A representative section will be drawn of each trench, to include ground level, the depth of machining within the trench and the depth of any sondages.

A metal detector will be used to examine the trench, contexts and spoil heaps, and the finds recovered.

Individual records of excavated contexts, layers, features or deposits will be entered on proforma record sheets. Registers will be compiled of finds, small finds and soil samples.

Site surveying

The evaluation trench and any features will be surveyed by Total Station or GPS, unless the particulars of the features indicate that manual planning techniques should be employed. Normal scale for archaeological site plans and sections is 1:20 and 1:10 respectively, unless circumstances indicate that other scales would be more appropriate.

The site grid will be tied into the National Grid. Corners of evaluation trenches will be located by NGR coordinates.

Environmental sampling policy

The number and range of samples collected will be adequate to determine the potential of the site, with particular focus on palaeoenvironmental remains including both biological remains (e.g. plants, small vertebrates) and small sized artefacts (e.g. smithing debris), and to provide information for sampling strategies on any future excavation. Samples will be collected for potential micromorphical and other pedological sedimentological analysis. Environmental bulk samples will be 40 litres in size (assuming context is large enough).

Sampling strategies will address questions of:

- the range of preservation types (charred, mineral-replaced, waterlogged), and their quality
- concentrations of macro-remains
- and differences in remains from undated and dated features
- variation between different feature types and areas of site

CAT has an arrangement with Val Fryer / Lisa Gray whereby any potentially rich environmental layers or features will be appropriately sampled as a matter of course. Trained CAT staff will process the samples and the flots will be sent to Val Fryer or Lisa Gray for analysis and reporting.

Should any complex, or otherwise outstanding deposits be encountered, VF or LG will be asked onto site to advise. Waterlogged 'organic' features will always be sampled. In all cases, the advice of VF/LG and/or the Historic England Regional Advisor in Archaeological Science (East of England) on sampling strategies for complex or waterlogged deposits will be followed, including the taking of monolith samples.

A contingency will be made in the budget for scientific assessment/analysis if suitable deposits are identified. This can include soil micromorphological and geochemical analysis of floors and dark earth deposits and/or absolute dating (such as archaeomagnetic and radiocarbon). The Historic England Regional Science Advisor will be consulted for advice.

Human remains

CBCAA will be notified immediately if any human remains are encountered during the evaluation.

Burials, if encountered, will be left *in situ* at this evaluation stage. Following HE guidance (HE 2018) if the human remains are not to be lifted, the project osteologist will be available to record the human remains *in situ* (i.e. a site visit).

If circumstances indicated it were prudent or necessary to remove remains from the site, the following criteria would be applied; if it is clear from their position, context, depth, or other factors that the remains are ancient, then normal procedure is to apply to the Department of Justice for a licence to remove them. Conditions laid down by the DoJ license will be followed. If it seems that the remains are not ancient, then the coroner, the client, and the CBCAA will be informed, and any advice and/or instruction from the coroner will be followed.

Human remains removed from site for analysis may be sent for radiocarbon dating.

Photographic record

Will include both general and feature-specific photographs, the latter with scale and north arrow. A photo register giving context number, details, and direction of shot will be prepared on site, and included in site archive. Digital site photographs will be taken and archived as per Historic England guidelines (HE 2015a).

Finds

All significant finds will be retained.

All finds, where appropriate, will be washed and marked with site code and context number. CAT may use local volunteers to assist the CAT Finds Officer with this task.

Most of our finds reports are written internally by CAT Staff under the supervision and direction of Philip Crummy (Director) and Howard Brooks (Deputy Director). This includes specialist subjects such as:

ceramic finds (pottery and ceramic building material): Matthew Loughton animal bones: Alec Wade (or Adam Wightman, small groups only) small finds, metalwork, coins, etc: Laura Pooley non-ceramic bulk finds: Laura Pooley flints: Adam Wightman environmental processing: Bronagh Quinn project osteologist (human remains): Meghan Seehra or to outside specialists: animal and human bone: Julie Curl (Sylvanus) environmental assessment and analysis: Val Fryer / Lisa Gray radiocarbon dating: SUERC Radiocarbon Dating Laboratory, Glasgow conservation/x-ray: Laura Ratcliffe (LR Conservation) / Norfolk Museums Service, **Conservation and Design Services** Other specialists whose opinion can be sought on large or complex groups include: flint: Hazel Martingell prehistoric pottery: Stephen Benfield / Nigel Brown / Paul Sealey Roman pottery: Stephen Benfield / Paul Sealey / Jo Mills / Val Rigby / **Gwladys Monteil** Roman brick/tile: Ian Betts (MOLA) Roman glass: Hilary Cool small finds: Nina Crummy other: EH Regional Adviser in Archaeological Science (East of England).

All finds of potential treasure will be removed to a safe place, and the coroner informed immediately, in accordance with the rules of the Treasure Act 1996. The definition of treasure is given in pages 3-5 of the Code of Practice of the above act. This refers primarily to gold or silver objects.

Requirements for conservation and storage of finds will be agreed with the appropriate museum prior to the start of work, and confirmed to CBCAA.

A contingency will be made in the budget for scientific assessment/analysis if suitable deposits are identified. This can include soil micromorphological and geochemical analysis of floors and dark earth deposits and/or absolute dating (such as archaeomagnetic and radiocarbon). The Historic England Regional Science Advisor will be consulted for advice.

Results

Notification will be given to the CBCAA when the fieldwork has been completed

An appropriate archive will be prepared to minimum acceptable standards outlined in *Management of Research Projects in the Historic Environment* (HE 2015b).

The report will be submitted within three months of the end of fieldwork, with a copy supplied to the CBCAA as a PDF.

The report will contain:

- Location plan of the evaluation trenches. At least two corners of which will be given 10 figure grid references.
- Section/s drawings showing depth of deposits from present ground level with Ordnance Datum, vertical and horizontal scale.
- Archaeological methodology and detailed results including a suitable conclusion and discussion and results referring to Regional Research Frameworks (Medlycott 2011).
- All specialist reports or assessments.
- A concise non-technical summary of the project results.

An EHER summary sheet will also be completed within four weeks and supplied to the CBCAA.

Results will be published, to at least a summary level (i.e. round-up in *Essex Archaeology & History*) in the year following the archaeological field work. An allowance will be made in the project costs for the report to be published in an adequately peer reviewed journal or monograph series.

A PDF copy of the full report will be uploaded by CAT to the OASIS website and the Colchester Archaeological Trust's Online Report Library (<u>http://cat.essex.ac.uk/</u>), both of which are publicly accessible.

Archive deposition

It is a policy of Colchester Borough Council that the integrity of the site archive be maintained (i.e. all finds and records should be properly curated by a single organisation), with the archive available for public consultation. To achieve this desired aim it is assumed that the full archive will be deposited in Colchester Museums *unless otherwise agreed in advance*. (A full *copy* of the archive shall in any case be deposited).

By accepting this WSI, the client agrees to deposit the archive, including all artefacts, at Colchester & Ipswich Museum.

The requirements for archive storage will be agreed with the curating museum. If the finds are to remain with the landowner, a full copy of the archive will be housed with the curating museum.

The archive will be deposited with Colchester & Ipswich Museum or an alternate repository (approved by COLEM and the CBCAA) within 3 months of the completion of the final publication report, with a summary of the contents of the archive supplied to the CBCAA. Digital archives will be curated with the Archaeology Data Service, or similar accredited digital archive repository, that safeguard the long-term curation of digital records. Prior to deposition CAT's data management plan (based on the official guidelines from the Digital Curation Centre [DCC 2013]) will ensure the integrity of the digital archive.

The CBCAA will be notified of the archiving timetable throughout the project and once deposition has occurred.

A digital / vector drawing of the site be given to the CBCAA for integration into the HER.

Monitoring

The CBCAA will be responsible for monitoring progress and standards throughout the project, and will be kept regularly informed during fieldwork, post-excavation and publication stages.

Notification of the start of work will be given to the CBCAA one week in advance of its commencement.

Any variations in this WSI will be agreed with the CBCAA prior to them being carried out.

The CBCAA will be notified when the fieldwork is complete.

The involvement of the CBCAA shall be acknowledged in any report or publication generated by this project.

References

Note: CAT reports, except for DBAs, are available online in PDF format at http://cat.essex.ac.uk

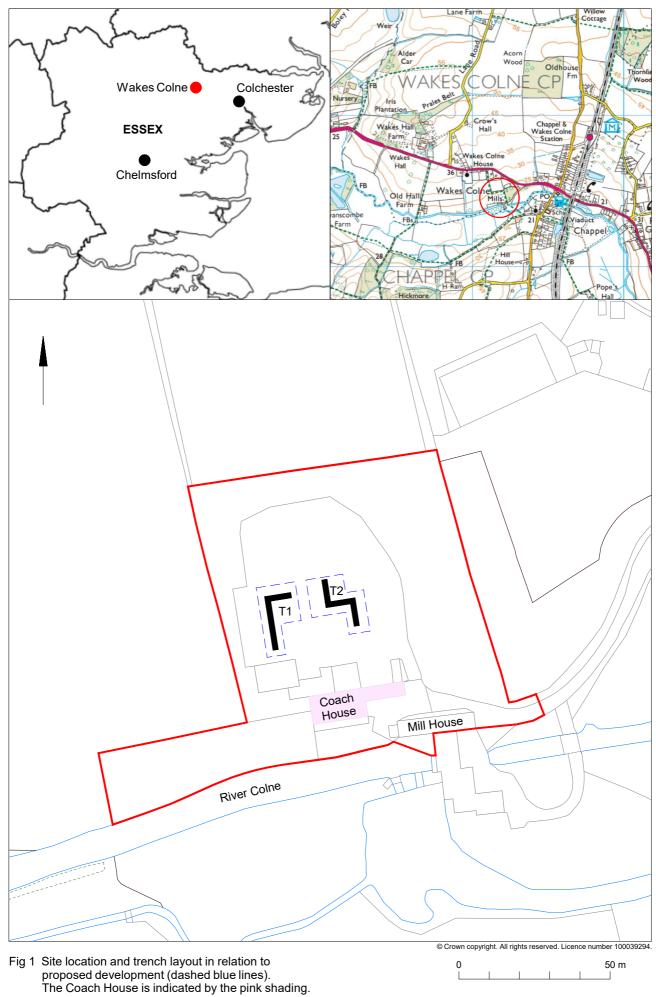
Brown, D	2011	Archaeological Archives: A guide to best practice in creation, compilation, transfer and curation. 2nd Edition
CAT	2020	Health & Safety Policy
CAT Report 1622	2021	Geophysical Survey and an Archaeological Strip, Map and Record Excavation at Wakes Hall, Colchester Road, Wakes Colne, Essex, CO6 2DB: November 2020 By Robin Mathieson
CBCAA	2020	Brief for Historic Building Recording and Archaeological Evaluation at Land to the North of Mill Buildings, Wakes Colne Mills, Colchester Road, Wakes Colne, Colchester, CO6 2BY By Richard Hoggett
ClfA	2014a	Standard and Guidance for archaeological evaluation
ClfA	2014b	Standard and guidance for the collection, documentation, conservation and research of archaeological materials
Digital Curation Centre (DCC)	2013	Checklist for Data Management Plan v. 4.0
Gurney, D	2003	<i>Standards for field archaeology in the East of England.</i> East Anglian Archaeology Occasional Papers 14 (EAA 14).
Historic England (HE)	2015	Management of Research Projects in the Historic Environment (MoRPHE)
Historic England (HE)	2016a	Understanding Historic Buildings, a guide to good recording practice. By R Lane
Historic England (HE)	2016b	Management of Research Projects in the Historic Environment (MoRPHE)
Historic England (HE)	2018	The Role of the Human Osteologist in an Archaeological Fieldwork Project. By S Mays, M Brickley and J Sidell
Medlycott, M	2011	Research and archaeology revisited: A revised framework for the East of England. East Anglian Archaeology Occasional Papers 24 (EAA 24)
MHCLG	2019	National Planning Policy Framework. Ministry of Housing, Communities and Local Government.
RCHME	1996	Recording historic buildings, a descriptive specification

S Carter



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Summary for colchest3-418913

OASIS ID (UID)	colchest3-418913
Project Name	Historic building recording at Wakes Colne Mills, Colchester Road, Wakes Cole, Colchester, CO6 2BY
Activity type	BUILDING SURVEY
Project Identifier(s)	2021/03z
Planning Id	183046
Reason For Investigation	Planning requirement
Organisation Responsible for work	Colchester Archaeological Trust
Project Dates	10-May-2021 - 10-May-2021
Location	Wakes Colne Mills, Colchester Road,
	Wakes Colne
	NGR : TL 89216 28398
	LL : 51.9219437256543,
	0.750200409159122
	12 Fig : 589216,228398
Administrative Areas	Country : England
	County : Essex
	District : Colchester
	Parish : Wakes Colne
Project Methodology	 A documentary, cartographic and pictorial survey of the evidence pertaining to the history and evolution of the site. A large-scale block plan of the site. Annotated and phased elevations and floor-plans of the building at a scale of 1:150. A description of the building. The description addresses features such as materials, dimensions, method of construction and phasing. A photographic record, comprising digital photographs of both general shots and individual features. Selected examples of the photographic record are clearly tied into the drawn record and reproduced as fully annotated photographic plates supporting the text. The photographic record is accompanied by a photographic register detailing location and direction of shot and a full contact sheet of the photographs taken during the survey.

Project Results	A programme of historic building recording was carried out by Colchester Archaeological Trust of the coach house at Wakes Colne Mills, Colchester Road, Wakes Colne, Essex, in May 2021.
	The coach house is located within a complex of buildings associated with Wakes Colne Mill. It is thought that there has been some form of mill on the site since 1066, but the 19th century saw a period of huge expansion for the mill. It was during this period the coach house was constructed. The coach house is a brick-built building with timber-framed roof trusses. All of the timbers are machine-sawn and many display good examples of Baltic timber marks.
Keywords	
HER	Colchester Borough Council - unRev -
	STANDARD
HER Identfiers	ECC4613
Archives	Documentary Archive, Digital Archive - to be deposited with Colchester &
	Ipswich Museum Sevice (Colchester
	Collection)