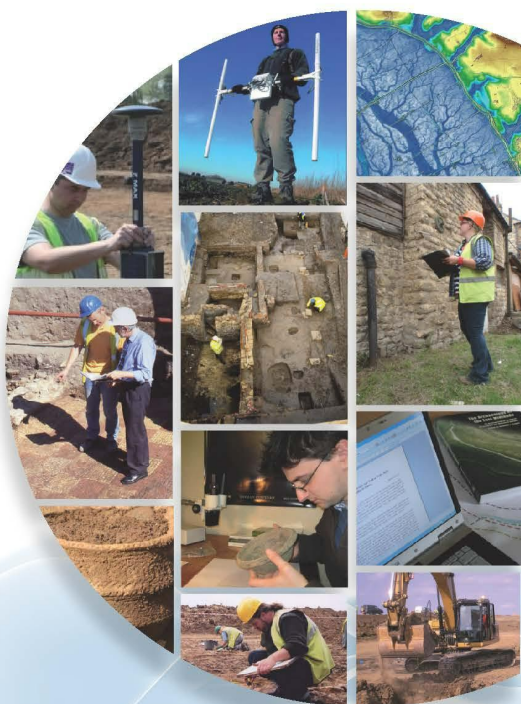


**WRITTEN SCHEME OF INVESTIGATION FOR
ARCHAEOLOGICAL MONITORING AND
RECORDING ON LAND OFF
CREASE DROVE
CROWLAND
LINCOLNSHIRE**

**Planning Application No: H02-0554-16
Grid Ref: TF 2377 0965
Accession No: LCNCC:2019.139**

**PREPARED FOR
PARTNER CONSTRUCTION**



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 - Mitigation Strategies
 - Excavation
 - Finds analysis

AUGUST 2019

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A Worksafe Contractor (SSIP)



Chartered Institute for Archaeologists
Registered Organisation

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1 SUMMARY

- 1.1 *A programme of archaeological monitoring and recording is required during development groundwork on land to at Crease Drove, Crowland, Lincolnshire.*
- 1.2 *The site is archaeologically sensitive, located in an area of a Bronze Age barrow cemetery. Barrows were known very close by and appear on aerial photographs as cropmarks. A bronze dagger fragment found at the western edge of the site probably derives from such a barrow.*
- 1.3 *The investigation will involve monitoring of development groundwork. Deposits exposed will be recorded in writing, graphically and photographically.*
- 1.4 *On completion of the fieldwork a report will be prepared detailing the results of the investigation. The report will consist of a narrative supported by illustrations and photographs.*

2 INTRODUCTION

- 2.1 This document comprises a specification for archaeological monitoring and recording of development on land at Crease Drove, Crowland, Lincolnshire.
- 2.2 This document contains the following parts:
 - 2.2.1 Overview.
 - 2.2.2 Stages of work and methodologies.
 - 2.2.3 List of specialists.
 - 2.2.4 Programme of works and staffing structure of the project

3 SITE LOCATION

- 3.1 Crowland is located 12km south of Spalding and 22km east of Stamford in the South Holland District of Lincolnshire.
- 3.2 The development site is located 750m southwest of the centre of Crowland, on the southwest edge of the village, on the east side of Crease Drove at National Grid Reference TF 2377 0965.

4 PLANNING BACKGROUND

- 4.1 The site is the subject of an application (H02-0554-16) for residential development of the site comprising 50 dwellings with associated infrastructure, including a pumping station and balancing pond. South Holland District Council have approved the application subject to a programme of archaeological monitoring and recording being undertaken in accordance with a Written Scheme of Investigation. This current document provides such a written scheme.

5 SOILS AND TOPOGRAPHY

- 5.1 The site is situated on low-lying land at 3mOD in the valley of the River Welland, which lies to the north and west of the site.
- 5.2 Local soils are of the Downholland 1 Association, typically humose clayey soils (Hodge *et al.* 1984, 166). These soils overlie deposits of Nordelph Peat formed approximately 2500 years ago that cover estuarine or marine sands and gravel (Horton 1989, 27). Former courses of the Welland have been identified close by, including to the immediate south of the site (Hayes and Lane 1992, 195). Below the drift deposits is a solid geology of Jurassic Oxford Clay (BGS 1984).

6 ARCHAEOLOGICAL OVERVIEW

- 6.1 The area of investigation lies along the gravel peninsula which was the focus for a Bronze Age barrow cemetery. Two of the recorded barrows, located a little north and northwest of the site, were destroyed principally through gravel quarrying during the 19th century (Hayes and Lane 1992, 197). Aerial photographs indicate that the barrow cemetery extended further to the southwest. Finds recorded from these barrows indicate that cremation was the common funerary practice and flint and bronze tools accompanied the burials. A bronze dagger fragment found to the west of the site probably derives from such a barrow (Archaeological Project Services 2002).

7 AIMS AND OBJECTIVES

- 7.1 The aim of the work will be to record and interpret the deposits and any archaeological features exposed during the development groundwork.
- 7.2 The objectives of the investigation will be to:
- Determine the form and function of the archaeological features encountered;
 - Determine the spatial arrangement of the archaeological features encountered;
 - As far as practicable, recover dating evidence from the archaeological features, and
 - Establish the sequence of the archaeological remains present on the site.

8 SITE OPERATIONS

8.1 General considerations

- 8.1.1 All work will be undertaken following statutory Health and Safety requirements in operation at the time of the investigation.
- 8.1.2 All work will be carried out in accordance with the *Lincolnshire Archaeological*

Handbook (Lincolnshire County Council 2016) and any revisions of such received up to the acceptance of this specification. Additionally, the work will be undertaken in consideration of, and with reference to, the regional research agenda (Knight *et al.* 2012).

8.1.3 The work will be undertaken according to the relevant codes of practise issued by the Chartered Institute for Archaeologists (CIfA), under the management of a Member of the institute (MCIfA). Archaeological Project Services is CIfA registered organisation no. 21.

8.1.4 Any and all artefacts found during the investigation and thought to be 'treasure', as defined by the Treasure Act 1996, will be removed from site to a secure store and promptly reported to the appropriate coroner's office and the Portable Antiquities'/Finds Liaison Officer. The archaeological curator will also be informed.

8.2 Methodology

8.2.1 The archaeological monitoring will be undertaken during the groundworks phase of development, and includes the archaeological monitoring of all phases of soil movement.

8.2.2 The initial phase will see the construction of houses on the western side constructed using tradition foundation trenches. Subsequent phases will entail a range of foundation designs, including piling, for which the scope and extent of archaeological monitoring will be informed by the preceding investigations. If subsequent works require a change in methodology, it will necessitate an addendum to this written scheme of investigation. It is expected that the road corridor and attenuation pond will require archaeological monitoring.

8.2.3 Stripped areas and trench sections will be observed to identify and record archaeological features that are exposed and to record changes in the geological conditions. The section drawings of the trenches will be recorded at a scale of 1:10. Should features be recorded in plan these will be drawn at a scale of 1:20. Written descriptions detailing the nature of the deposits, features and fills encountered will be compiled on Archaeological Project Services pro-forma record sheets.

8.2.4 Finds recovered will be bagged and labelled for later analysis.

8.2.5 Throughout the investigation a photographic record will be compiled. The photographic record will consist of:

- the site during the investigation to show specific stages of work, and the layout of the archaeology within the area.
- individual features and, where appropriate, their sections.

- groups of features where their relationship is important.

8.2.6 Should human remains be located they will be left *in situ* and only excavated if absolutely necessary. Should removal be required the appropriate Ministry of Justice licence will be obtained before the exhumation of the remains. In addition, the Local Environmental Health Department, coroner and the police will be informed, where appropriate.

9 POST-EXCAVATION

9.1 Stage 1

- 9.1.1 On completion of site operations, the records and schedules produced during the investigation will be checked and ordered to ensure that they form a uniform sequence forming a level II archive. A stratigraphic matrix of the archaeological deposits and features present on the site will be prepared. All photographic material will be catalogued and labelled, the labelling referring to schedules identifying the subject/s photographed.
- 9.1.2 All finds recovered during the fieldwork will be washed, marked and packaged according to the deposit from which they were recovered. Any finds requiring specialist treatment and conservation will be sent to York Archaeological Trust.

9.2 Stage 2

- 9.2.1 Detailed examination of the stratigraphic matrix to enable the determination of the various phases of activity on the site.
- 9.2.2 Finds will be sent to specialists for identification and dating.

9.3 Stage 3

- 9.3.1 On completion of stage 2, a report detailing the findings of the investigation will be prepared.
- 9.3.2 This will consist of:
- A non-technical summary of the results of the investigation.
 - A description of the archaeological setting of the investigation.
 - Description of the topography of the site.
 - Description of the methodologies used during the investigation.
 - A text describing the findings of the investigation.

- A consideration of the local, regional and national context of the investigation findings.
- Plans of the archaeological features exposed. If a sequence of archaeological deposits is encountered, separate plans for each phase will be produced.
- Sections of the trenches and archaeological features.
- Interpretation of the archaeological features exposed, and their chronology and setting within the surrounding landscape.
- Specialist reports on the finds from the site.
- Appropriate photographs of the site and specific archaeological features.

10 REPORT DEPOSITION

- 10.1 Copies of the report will be sent to: the client and to Lincolnshire County Council Historic Environment Record.

11 ARCHIVE

- 11.1 The documentation and records generated during the investigation will be sorted and ordered into format acceptable to The Collection, Lincoln. This will be undertaken following the requirements of the document titled *Conditions for the Acceptance of Project Archives* for long-term storage and curation.

- Site Code: CCDA19
- Accession No: LCNCC: 2019.139
- Deposition Date: December 2020

12 PUBLICATION

- 12.1 Details of the investigation will be input to the Online Access to the Index of Archaeological Investigations (OASIS).
- 12.2 If appropriate, notes on the findings will be submitted to the appropriate national journals: *Britannia* for discoveries of Roman date, and *Medieval Archaeology* for findings of medieval or later date. In addition, a note will be submitted to the local journal, *Lincolnshire History and Archaeology*.

13 CURATORIAL RESPONSIBILITY

- 13.1 Curatorial responsibility for the archaeological work undertaken on the site lies with the Lincolnshire County Council Planning Archaeologist. They will be given written notice of the commencement of the project.

14 VARIATIONS AND CONTINGENCIES

- 14.1 Variations to the proposed scheme of works will only be made following written confirmation of acceptance from the archaeological curator.
- 14.2 In the event of the discovery of any unexpected remains of archaeological importance, or of any changed circumstances, it is the responsibility of the archaeological contractor to inform the archaeological curator.
- 14.3 Where important archaeological remains are discovered and deemed to merit further investigation additional resources may be required to provide an appropriate level of investigation, recording and analysis.
- 14.4 Any contingency requirement for additional fieldwork or post-excavation analysis outside the scope of the proposed scheme of works will only be activated following full consultation with the archaeological curator and the client.

15 PROGRAMME OF WORKS AND STAFFING LEVELS

- 15.1 The investigation will be integrated with the programme of construction and is dependent on the developers' work programme, and also on the quantity and complexity of archaeological remains encountered. It is therefore not possible to specify the person-hours for the archaeological site. Post-excavation work is likewise dependent on the quantity and complexity of archaeological remains encountered.
- 15.2 An archaeological supervisor with experience of investigations of this type will undertake the work.
- 15.3 Post-excavation analysis and report production will be undertaken by the archaeological supervisor, or a post-excavation analyst as appropriate, with assistance from a finds supervisor, illustrator and external specialists.

16 SPECIALISTS TO BE USED DURING THE PROJECT

- 16.1 The following organisations/persons will, in principle and if necessary, be used as subcontractors to provide the relevant specialist work and reports in respect of any objects or material recovered during the investigation that require their expert knowledge and input. Engagement of any particular specialist subcontractor is also dependent on their availability and ability to meet programming requirements.

<u>Task</u>	<u>Body to be undertaking the work</u>
Conservation	York Archaeological Trust
Pottery Analysis	Prehistoric – S Percival, Independent Specialist Roman – I Rowlandson, Independent Specialist Post-Roman -A Irving, Independent Specialist

Non-pottery Artefacts	J Cowgill, Independent Specialist/G Taylor, APS
Animal Bones	N Sleaford/M Holmes, Independent Specialists
Environmental Analysis	J Rackham, Independent Specialist
Human Remains Analysis	Dr R Kendall, Independent Specialist

17 INSURANCES

- 17.1 Archaeological Project Services, as part of the Heritage Trust of Lincolnshire, maintains Employers Liability Insurance of £10,000,000, together with Public and Products Liability insurances, each with indemnity of £5,000,000. Copies of insurance documentation can be supplied on request.

18 COPYRIGHT

- 18.1 Archaeological Project Services shall retain full copyright of any commissioned reports under the Copyright, Designs and Patents Act 1988 with all rights reserved; excepting that it hereby provides an exclusive licence to the client for the use of such documents by the client in all matters directly relating to the project as described in the Project Specification.
- 18.2 Licence will also be given to the archaeological curators to use the documentary archive for educational, public and research purposes.
- 18.3 In the case of non-satisfactory settlement of account then copyright will remain fully and exclusively with Archaeological Project Services. In these circumstances it will be an infringement under the Copyright, Designs and Patents Act 1988 for the client to pass any report, partial report, or copy of same, to any third party. Reports submitted in good faith by Archaeological Project Services to any Planning Authority or archaeological curator will be removed from said planning Authority and/or archaeological curator. The Planning Authority and/or archaeological curator will be notified by Archaeological Project Services that the use of any such information previously supplied constitutes an infringement under the Copyright, Designs and Patents Act 1988 and may result in legal action.
- 18.4 The author of any report or specialist contribution to a report shall retain intellectual copyright of their work and may make use of their work for educational or research purposes or for further publication.

19 BIBLIOGRAPHY

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Specification: Version 2, 15-08-2019



0 50m

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-  Footprint of demolished buildings
-  Archaeological monitoring and recording areas

NB. Monitored areas will be subject to change
following the initial stripping of the road/attenuation pond

ARCHAEOLOGICAL PROJECT SERVICES		
		
Project Name: Crease Drove, Crowland (Adcocks)		
Scale 1:1000	Drawn by: PCF	WSI

Plan showing plots/areas to be archaeologically monitored



Notes

- Copyright in this drawing remains the property of BM3 Architecture Limited.
- Do not scale this drawing. Work to figured dimensions only.
- Contractors and consultants are to advise BM3 Architecture Limited of any discrepancies.

Revision	Date	By	Chkd
A: MIX UPDATED	17.10.18	JJ	
B: MOVED PLOTS 34 AWAY FROM NORTHERN AND SOUTHERN BOUNDARY EDGE	26.10.18	JJ	
C: HOUSING MIX UPDATED BASED ON COMMENTS. DRAWING UPDATED TO PLANNING INDICATED TREES AROUND BOUNDARY EDGE REMOVED	30.01.19	JJ	
D: LAYOUT AMENDED BASED ON REPOSITIONING OF BALANCING POND. INCLUSION OF PUMPING STATION AND COMMENTS FROM WATERLOO	22.02.19	JJ	
E: UPDATED BASED ON CHANGE IN HOUSING MIX TO SUIT REQUIRED TENURES AND COMMENTS FROM PARTNER CONSTRUCTION	07.03.19	JJ	
F: UPDATED BASED ON RELOCATION OF PLOT 35 PARKING AND HOOP TOPPED RAILING ADDED TO PERIMETER OF BALANCING POND. BIN COLLECTION AREAS ADDED	19.03.19	JJ	
G: DIMENSIONS ADDED AROUND SITE BOUNDARY	18.04.19	TK	JJ
H: NORTHERN IDB BOUNDARY HATCH SHOWN AND CLEAR OF GARDEN BOUNDARIES	29.04.19	JJ	
J: LAYOUT UPDATED BASED ON THE 5M IDB BUFFER ZONE RELOCATED ON THE EASTERN BOUNDARY RATHER THAN THE NORTHERN BOUNDARY	01.05.19	JJ	



Client
Partner

Project
CREASE DRIVE
CROWLANDS
PETERBOROUGH

CIS/Element

Drawing
SITE LAYOUT

Drawn by
JJ

Checked
JJ

Scale
1:500@A2

Dated
OCT 2018

Job No.
70688

Drawing No.
D01

Revision
H

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ACCOMMODATION SCHEDULE

DWELLING TYPE	GIFA	HEIGHT (STOREYS)	AMOUNT	%
1B	1B2P HOUSE	2	06	12
F133	2B4P HOUSE	2	24	48
F113	3B5P HOUSE	2	02	40
F131	3B5P HOUSE	2	18	
TOTAL			50	100

AREA = 1.54 Ha

- 1800mm brick wall
- 1800mm close boarded fence
- Proposed Knee Rail
- Paving Hatch
- Hoop Topped Fencing

- Proposed trees
- Trees retained
- Trees removed
- Root Protection Area
- Bin storage
- 9m IDB Easement clear of all garden boundaries.

PILED
DEEP TRENCH
TRADITIONAL