

# **Archaeological Services**

An Archaeological Fieldwalking survey at Stephenson's Green, Green Lane, Coalville, Leicestershire NGR: SK 438 148 centre

Jon Coward



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# An Archaeological Fieldwalking Survey at Stephenson's Green, Green Lane, Coalville, Leicestershire

**NGR: SK 438 148 centre** 

# Jon Coward

For: Jelson Ltd and William Davis Ltd

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# An Archaeological Fieldwalking survey at Stephenson's Green, Green Lane, Coalville, Leicestershire SK 438 148

Jon Coward

## 1. Summary

An archaeological fieldwalking survey was carried out by University of Leicester Archaeological Services (ULAS) in November 2009 over land at Stephenson's Green, Green Lane, Coalville, North West Leicestershire (NGR SK 438 148) on behalf of Jelson Ltd and William Davis Ltd, in advance of the proposed development of the site. The fieldwalking located a small dispersed scatter of worked flint, with some medieval, post-medieval and modern ceramic material. While the fieldwalking has not produced significant evidence of occupation previously unrecorded cropmarks have been located which may indicate the present of a later prehistoric settlement. The archive will be deposited with Leicestershire County Council under accession number X.A203.2009.

# 2. Background

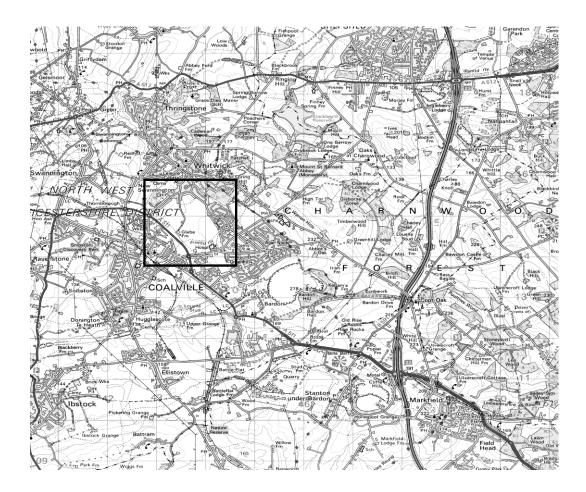
# 2.1 Site Location, Geology and Topography

The site lies to the north of Coalville town centre, on the northern side of Stephenson Way (part of the A511), and to the east and west of Green Lane, between Coalville and Whitwick in the District of North West Leicestershire (Figures 1-2).

The Ordnance Survey Geological Survey of Great Britain Sheet 155 shows that the underlying geology is likely to be Mercia Mudstone Group clay, possibly overlain by Till.

The area is bounded by higher land, along the northern and eastern sides, dropping down towards Green Lane in the centre of the area. The highest ground is at c.167m OD at the east edges of fields R and S, the lowest at c.148m OD on the west edge of the area (Figure 9). The total area of the site is 91.3 hectares.

The application area covers 21 fields, of which 11 were available for fieldwalking, the remainder being scrub or pasture. These have been subject to a magnetic susceptibility survey and will be covered by a separate report. The area of the fieldwalking survey was c.60.5 ha. Comparing the site as walked to recent mapping, a field boundary has been recently removed in Field F, and the grass and paddock area attached to the property/properties at Forest View on the east edge of this field have been increased. A new boundary has been erected between fields T and U (Figure 3). A flood relief area on the west edge of field K would have removed a volume of potentially finds-bearing topsoil. What happened to this material is unclear; there are no obvious banks on its edges to account for it. This soil and any concomitant artefacts may have been spread around the vicinity.



 $\begin{array}{c} Figure\ 1\ Site\ Location\ 1\colon 50\ 000 \\ @\ Crown\ Copyright.\ All\ rights\ reserved.\ Licence\ number\ AL\ 100029495 \end{array}$ 

# 3. Historical Background

(Taken from the desk-based assessment, Hunt 2008)

The area contains several archaeological findspots, including a leaf arrowhead of likely Late Neolithic date, a scatter of material that suggests a Neolithic-Bronze Age site, a medieval coin, and further medieval material. The remains of a post-medieval mineral railway are also known to the south of the area, while further Neolithic and Roman sites are located in the close vicinity. The fact that archaeological material has been found before within the assessment area, together with the undeveloped nature of the site would suggest that there was moderate to high potential for remains from the Neolithic-Bronze Age, medieval and post-medieval periods to be discovered during any groundworks associated with the proposed development. In the absence of systematic survey there was unknown potential for archaeological remains from other periods.

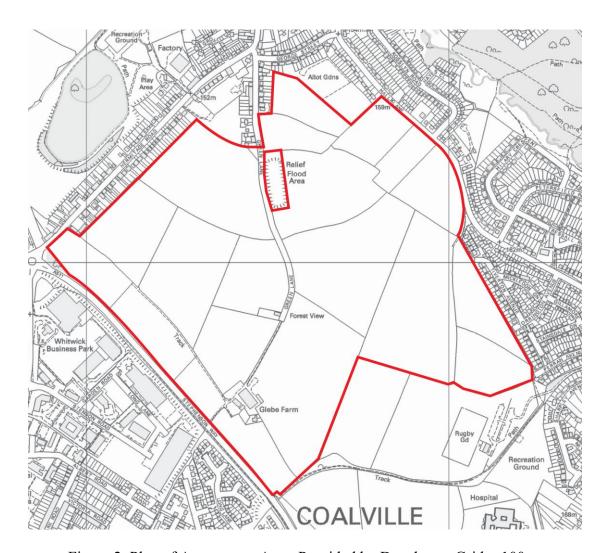


Figure 2 Plan of Assessment Area. Provided by Developer. Grid = 100m

## 4. Aims

The overall aim of the survey was to gather information to help establish the extent, condition, character and date (as far as circumstances permit) of any archaeological features and deposits within the proposed area for development.

#### 5. Methods

The available fields were walked at 20m interval traverses. Finds were recovered and logged by hand-held GPS, at a reported accuracy of approximately 3-5m. Conditions during the survey were reasonable to good; low light was occasionally a problem, and on most of the fields the crop was well through, but not enough to seriously affect recovery rates. Material which was obviously modern was not recovered, nor was ceramic building material (CBM) unless there was doubt as to its modernity. There was an unusually large amount of fragmentary CBM across many of the surveyed fields. Fields A, C, H, J, L, M, R, U, V, and W were surveyed by magnetic susceptibility as they were pasture or scrub, and are excluded from this report.

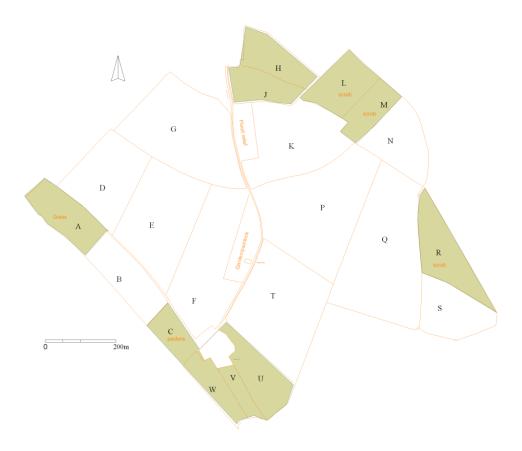


Figure 3 Fieldcodes, and survey extent. Shaded fields surveyed by magnetic susceptibility.

# 6. Results

# 6.1 Prehistoric material

No prehistoric pottery was recovered, and all the lithic material was flint. Although some 60+ flint pieces were recovered, examination indicated that the majority had been caused by natural processes or plough damage. The remaining 16 worked pieces were spread around the area, mostly keeping to the slopes below the highest ground but above the lowest (Figure 9), although there is a noticeable dispersed cluster in field P (Figure 4).

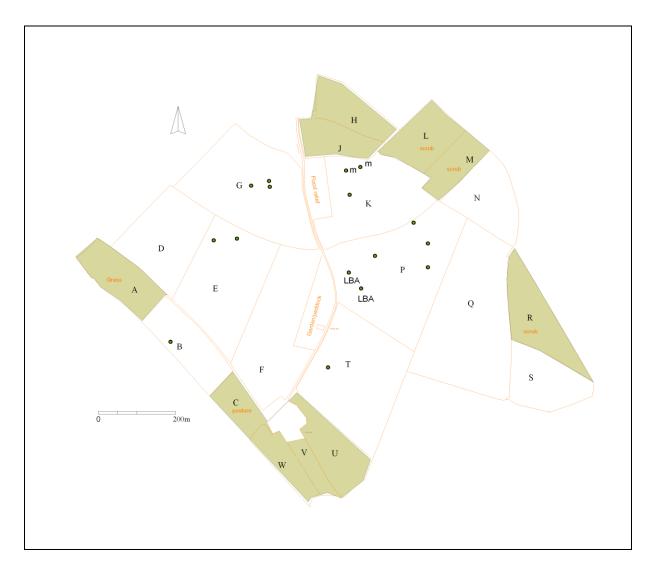


Figure 4 Worked Flint.

m = Mesolithic, LBA = Late Bronze Age, remainder = undiagnostic prehistoric.

# 6.2 Medieval material

Pottery of the early (one sherd) and later medieval periods was sparse with slightly more later material recovered. As with the flint, the low-lying ground is generally empty, but some dispersed material appears on the eastern slope up to the highest ground (Figure 5).

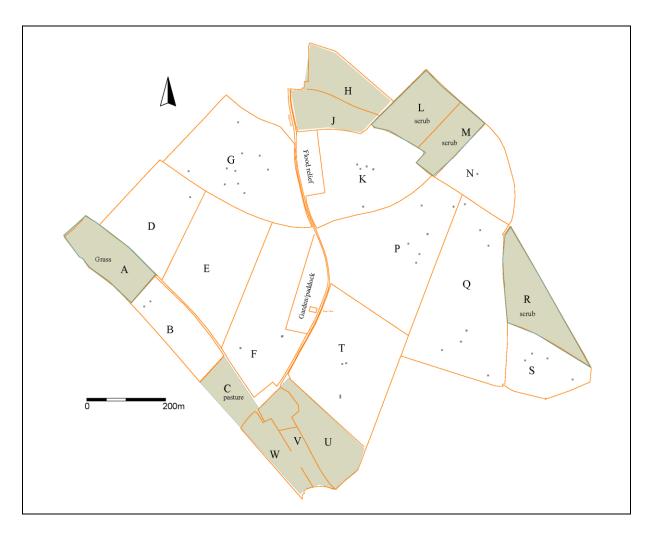


Figure 5 Early medieval to late medieval pottery

# 6.3 Post-medieval and modern material

A large quantity of post-medieval and modern pottery and CBM was recovered (398 fragments). The distribution map (Figure 6) shows this to be present across all areas, including the low-lying areas which showed no evidence for earlier artefacts.

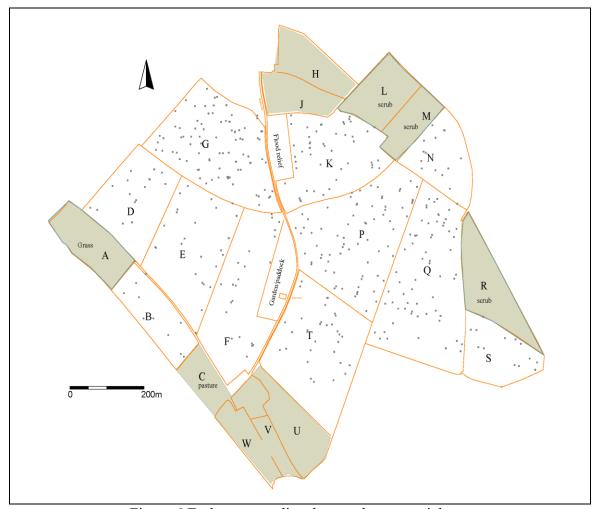


Figure 6 Early post-medieval to modern material

#### 7. Discussion

A few worked flint pieces were located during the fieldwalking. While most were undiagnostic a bladelet core and microlith are Mesolithic in date, while three scrapers can be dated to the Bronze Age (Appendix 1). The absence of earlier material from the low-lying areas may represent a true distribution, or may indicate a degree of colluviation from the higher ground around, masking evidence of earlier activity. The fact that a flood relief basin has been constructed on the western side of field K indicates drainage problems; the lower ground may always have been marginal, and thus avoided by settlement.

During preparation for this project, an aerial photograph was noted, not previously recorded on the HER, which appears to show a rectilinear cropmark (Figure 7) in field P, plus a long linear cropmark (apparently two parallel cropmarks in field S) which crosses several fields in the north-east, running north-north-west to south-south-east from field N to field S (Figure 8). No finds were recovered during the survey which appeared to be associated with the long linear cropmark, although it should be noted that a group of flints (HER ref MLE9457, see Hunt 2008) is on the line of this cropmark in field R, which was covered with scrub at the time of this survey. A very

slight ridge is visible in field S along the same general alignment as this cropmark; whether this is a remnant of an upstanding feature, or of geological origin is not known. There is a dispersed flint scatter in the vicinity of the enclosure cropmark in field P, albeit of no great density. No prehistoric pottery was recovered from this area, though the soils are not particularly heavy and it may be that any ploughing is relatively shallow.



Figure 7 Aerial photograph: detail of field P
Rectified and enhanced to show possible rectilinear cropmark, centre. Part of the long linear cropmark
can be seen in field N, top right. RGB Aerial Photography - ©GeoPerspectives

Thirty-eight sherds recovered are medieval or early post-medieval, dating from between c.1100 and c.1550, with another 54 sherds dating between c.1450 and c.1650. The remaining 398 fragments, comprising over 80% of the total by count, are of post-medieval and modern date (c.1650-1900) date (Appendix 2). Many of these fragments are pancheon wares, which are not closely datable and have been recorded as post-medieval or modern. Also present were Mottled Wares, Blackware, Slipware, 38 fragments of tile or brick and part of a Victorian figurine or doll, predominantly in unclassified earthenwares. Much of the material was probably deposited as a resulting of agricultural activities such as manuring associated with the nearby settlement at Whitwick. Four fragments of post-medieval or modern clay tobacco pipes were also recovered.

Of note is the low number of medieval sherds from Field N where previous fieldwalking had located 18 sherds and some slag perhaps suggesting occupation (MLE10123; Hunt 2008). However the larger number of sherds recovered during the earlier fieldwalking may be due to different conditions. From an examination of the original fieldwalking records the overall distribution of this material is still dispersed and it is likely that this is more evidence of the manuring scatters identified in the other fields.



Figure 8 Aerial photograph: linear cropmark running down the east side of the area RGB Aerial Photography - ©GeoPerspectives

## 8. Archive

The site archive consists of the finds (see Appendices 1-2), three sheets of field notes made during the survey, and survey data. The archive will be deposited with LMARS under accession code X.A203.2009 in due course.

# 9. Acknowledgements

The survey was carried out by Jon Coward, Andy Hyam, Gavin Speed, and Tim Higgins. Project management was by Patrick Clay. ULAS would like to thank the owners and agents who facilitated access to their land and geopperspectives for permission to reproduce Figures 7 and 8. Helen Wells of Leicestershire County Council has kindly supplied the HER records for earlier fieldwalking.

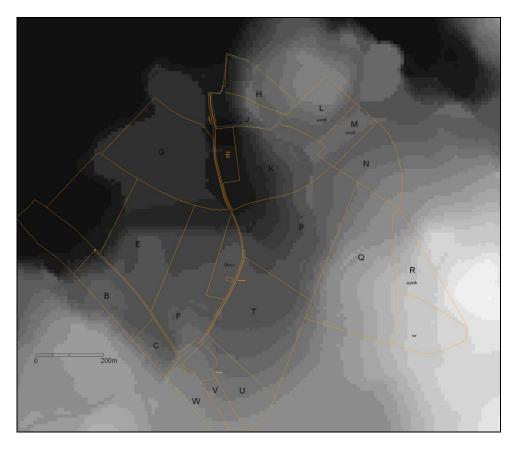


Figure 9 Relief. White = high ground, dark= low ground

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# Appendix 1: The lithics. Lynden Cooper

Of the 66 pieces collected only 13 show certain signs of being worked, while three others may be worked. Of note is a bladelet core and microlith of Mesolithic date, while the three scrapers are Bronze Age, with those with a straight edge, later Bronze Age.

| Find number | Description  | Date     |
|-------------|--|----------|
| 39          | calcined shatter   | PreH     |
| 51          | 1ry flake(?)   | PreH     |
| 78          | shatter(?)   | PreH     |
| 84          | 2ry flake  | PreH     |
| 116         | shatter(?)   | PreH     |
| 199         | 2ry flake  | PreH     |
| 277         | retouched flake  | PreH     |
| 312         | 2ry flake  | PreH     |
| 412         | 2ry flake  | PreH     |
| 417         | scraper (with straight-edged retouch)  | Later BA |
| 437         | scraper (with convex and concave retouch, approaching thumbnail type)  | BA       |
| 447         | bladelet core  | Meso     |
| 448         | microlith (obliquely truncated point with additional retouch.  NB the retouch cuts through previous patina ie a re-used piece) | Meso     |
| 534         | 2ry flake  | PreH     |
| 572         | 2ry flake  | PreH     |
| 633         | scraper (with concave and straight edge retouch)   | Later BA |

PreH: undiagnostic, prehistoric date

BA: Bronze Age

Later BA: later Bronze Age

Meso: mesolithic

# Appendix 2: The ceramic finds. Deborah Sawday

The 490 fragments of pottery, tile and brick were catalogued with reference to the ULAS fabric series (Sawday 1989; Davies and Sawday 1999). The results are shown in the table and catalogue below.

| Fabric                  | Common Name           | Sherds/Fragments |
|-------------------------|-----------------------|------------------|
| Medieval/Later Medieva  | 1                     |                  |
| PM                      | Potters Marston       | 1                |
| MS3                     | Medieval Sandy ware 3 | 23               |
| MP2                     | Midland Purple ware 2 | 10               |
| MP4                     | Midland Purple ware 4 | 1                |
| MP                      | Midland Purple ware   | 1                |
| CW2                     | Cistercian ware 2     | 2                |
| Sub Totals              |                       | 38               |
| Later Medieval/Early Po | st Medieval           |                  |
| CW/MB                   | Cistercian/Midland    | 19               |
|                         | Blackware             |                  |
| MB                      | Midland Blackware     | 1                |

| MY                   | Midland Yellow  | 1   |
|----------------------|-----------------|-----|
| EA1                  | Earthenware 1   | 33  |
| Sub Totals           |                 | 54  |
| Post Medieval/Modern |                 |     |
| EA1/2                | Earthenware 1/2 | 60  |
| EA2                  | Earthenware 2   | 180 |
| EA3                  | Earthenware 3   | 27  |
| EA4                  | Earthenware 4   | 2   |
| EA5                  | Earthenware 5   | 2   |
| EA6                  | Earthenware 6   | 50  |
| EA7                  | Earthenware 7   | 12  |
| EA                   | Earthenware     | 56  |
| SW                   | Stoneware       | 9   |
| Sub Totals           |                 | 398 |
| Total                |                 | 490 |

Table 1: The medieval and later pottery by fabric, sherd numbers and weight (grams).

Thirty-eight sherds are medieval or early post-medieval, dating from between c.1100 and c.1550, with another 54 sherds dating between c.1450 and c.1650. The remaining 398 fragments, comprised over 80% of the total by count, are of post-medieval date. Many of these fragments are pancheon wares in EA2, which are not closely datable and have been catalogued as post-medieval or modern. Also present were Mottled Wares, EA3 - EA5, Blackware – EA6 and Slipware – EA7 and 38 fragments of tile or brick and part of a Victorian figurine or doll, predominantly in the unclassified earthenware, EA. Much of the material was probably deposited as a result of agricultural activities such as manuring associated with the nearby settlement at Whitwick. Four fragments of post-medieval or modern clay tobacco pipes were also recovered.

Typically the medieval and early post-medieval wares appear to be local in origin. The source of the medieval Potters Marston ware lies approximately 15km to the south at the now deserted medieval village of that name, where medieval pottery kilns have been recorded (Sawday 1991). The Medieval Sandy ware, MS3 and much of the later medieval and early post-medieval wares: the Midland Purple, the Cistercian/Midland Blackware and the Midland Yellow ware, are thought to originate in production centres in Derbyshire, notably Ticknall, some 13km to the north-west. The later wares are harder to source as the clay bodies are often highly refined and lack the generally naturally occurring inclusions which can help to pinpoint the production centres of the earlier wares. However, the most obvious sources for the later pottery and ceramic building materials include Ticknall and Chilvers Coton in nearby Warwickshire, but manufacturing centres further afield cannot be discounted.

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Sawday, D., 1991 Potters Marston ware, *Transactions of the Leicestershire Archaeological and Historical Society* **65**, 34–7.

| Site/ Parish: Stephenson's Green, Green | Submitter: J. Coward               |
|---|------------------------------------|
| Lane, Whitwick, Leics.                  | Identifier: D. Sawday              |
| Accession No.: XA203 2009               | Method of Recovery: field walking  |
| Document Ref: whitwick1.docx            | Date of Id: 2.12.09 Job No: 10/552 |
| Material: pot/flint/misc                | Site Type: open fields             |

Key: MED – Med LM – Late Med EPM – Early Post Med LPM – Later Post Med PM – Post Med MOD – Modern CBM – Ceramic Building Material Blank/missing numbers indicate unused or discarded findspot numbers.

| Find No. | Material | No. | Period | notes      |
|----------|----------|-----|--------|------------|
| 1        | COAL     | 1   |        |            |
| 2        | EA2      | 1   | PM/MOD |            |
| 3        | SW       | 1   | MOD    |            |
| 4        | EA       | 1   | MOD    | flower pot |
| 5        | EA2      | 1   | PM/MOD |            |
| 6        | EA       | 1   | MOD    | flower pot |
| 7        | MP       | 1   | LM     |            |
| 8        | FLINT    | 1   |        |            |
| 9        | EA       | 1   | MOD    | flower pot |
| 10       | EA2      | 1   | PM/MOD |            |
| 11       | EA2      | 1   | PM/MOD |            |
| 12       | MS3      | 1   | MED/LM |            |
| 13       | EA2      | 1   | PM/MOD |            |
| 14       | EA2      | 1   | PM/MOD |            |
| 15       | EA2      | 1   | PM/MOD |            |
| 16       | EA       | 1   | MOD    | flower pot |
| 17       | EA2      | 1   | PM/MOD |            |
| 18       | EA2      | 1   | PM/MOD |            |
| 19       | EA2      | 1   | PM/MOD |            |
| 20       | STONE    | 1   |        |            |
| 21       | EA7      | 1   | PM     |            |
| 22       | EA       | 1   | MOD    | tile       |
| 23       | FLINT    | 1   |        |            |
| 24       | FLINT    | 1   |        |            |
| 25       | EA5      | 1   | LPM    |            |
| 26       | EA6      | 1   | LPM    |            |
| 27       | EA       | 1   | MOD    | tile       |
| 28       | EA       | 1   |        | flower pot |
| 29       | SW       | 1   | MOD    | _          |
| 30       | EA2      | 1   | PM/MOD |            |
| 31       | EA6      | 1   | LPM    |            |
| 32       | FLINT    | 1   |        |            |
| 33       | EA2      | 1   | PM/MOD |            |

| 34<br>35<br>36<br>37<br>38<br>39<br>40<br>41<br>42 | EA1 EA2 EA2 EA2 EA1 FLINT FLINT FLINT EA |        | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | EPM PM/MOD PM/MOD PM/MOD EPM | tile |
|--|--|--------|--------------------------------------|------------------------------|------|
| 43   | EA3                                      | 1      | LPM                                  |                              |      |
| 44   | EA1                                      | 1      | EPM                                  |                              |      |
| 45   | STONE                                    | 1      | LI IVI                               |                              |      |
| 46   | EA1/2                                    | 1      | EPM                                  |                              |      |
| 47   | STONE                                    | 1      | LIIVI                                |                              |      |
| 48   | FLINT                                    | 1      |                                      |                              |      |
| 49   | EA1/2                                    | 1      | PM                                   |                              |      |
| 50   | EA2                                      | 1      | PM/MOD                               |                              |      |
| 51   | FLINT                                    | 1      | 1111/11102                           |                              |      |
| 52   | CW2                                      | 1      | LM                                   |                              |      |
| 53   | EA2                                      | 1      | PM/MOD                               |                              |      |
| 54   | EA6                                      | 1      | LPM                                  |                              |      |
| 55   | EA2                                      | 1      | PM/MOD                               |                              |      |
| 56   | EA3                                      | 1      | LPM                                  |                              |      |
| 57   | EA6                                      | 1      | LPM                                  |                              |      |
| 58   | EA2                                      | 1      | PM/MOD                               |                              |      |
| 59   | EA1                                      | 1      | EPM                                  |                              |      |
| 60   | EA2                                      | 1      | PM/MOD                               |                              |      |
| 61   | EA5                                      | 1      | LPM                                  |                              |      |
| 62   | EA2                                      | 1      | EPM                                  | ?early                       |      |
| 63   | CW/MB                                    | 1      | LM/EPM                               | j                            |      |
| 64   | EA2                                      | 1      | PM/MOD                               |                              |      |
| 65   | EA3                                      | 1      | LPM                                  |                              |      |
| 66   | EA1/2                                    | 1      | EPM                                  |                              |      |
| 67   | EA2                                      | 1      | PM/MOD                               |                              |      |
| 68   | EA1/2                                    | 1      | EPM                                  |                              |      |
| 69   | FLINT                                    | 1      |                                      |                              |      |
| 70   | STONE                                    | 1      |                                      |                              |      |
| 71   | STONE                                    | 1      |                                      |                              |      |
| 72   | CW/MB                                    | 1      | LM/EPM                               |                              |      |
| 73   | EA                                       | 1      | MOD                                  | flower pot                   |      |
| 74   | FLINT                                    | 1      |                                      |                              |      |
| 75   | EA6                                      | 1      | LPM                                  |                              |      |
| 76   | STONE                                    | 1      |                                      |                              |      |
| 77<br><b>7</b> 0                                   | EA                                       | 1      | PMED/MOD                             | brick                        |      |
| 78<br>70   | FLINT                                    | 1      |                                      |                              |      |
| 79   | FLINT                                    | 1      | EDM.                                 |                              |      |
| 80   | EA1                                      | 1      | EPM                                  |                              |      |
| 81   | EA6                                      | 1      | LPM                                  |                              |      |
| 82   | FLINT                                    | 1      | DM/MOD                               |                              |      |
| 83   | EA2                                      | 1      | PM/MOD                               |                              |      |
| 84<br>85   | FLINT<br>FLINT                           | 1<br>1 |                                      |                              |      |
| 03   | LUINI                                    | 1      |                                      |                              |      |

| 86  | EA2         | 1 | PM/MOD     |       |
|-----|-------------|---|------------|-------|
| 87  | EA2         | 1 | PM/MOD     |       |
| 88  | EA7         | 1 | PM         |       |
| 89  | EA2         | 1 | PM/MOD     |       |
| 90  | EA2         | 1 | PM/MOD     |       |
| 91  | EA2         | 1 | PM/MOD     |       |
| 92  | EA2         | 1 | EPM        | early |
| 93  | STONE       | 1 |            |       |
| 94  | FLINT       | 1 |            |       |
| 95  | FLINT       | 1 |            |       |
| 96  | FLINT       | 1 |            |       |
| 97  | FLINT       | 1 |            |       |
| 98  | FLINT       | 1 |            |       |
| 99  | FLINT       | 1 |            |       |
| 100 | FLINT       | 1 |            |       |
| 101 | MS3         | 1 | LM         |       |
| 102 | EA2         | 1 | PM/MOD     |       |
| 103 | STONE       | 1 |            |       |
| 104 | FLINT       | 1 |            |       |
| 105 |             |   |            |       |
| 106 | FLINT       | 1 |            |       |
| 107 | FLINT       | 1 |            |       |
| 108 | STONE       | 1 |            |       |
| 109 | EA2         | 1 | PM/MOD     |       |
| 110 | FLINT       |   |            |       |
| 111 | FLINT       | 1 |            |       |
| 112 | 1111 2      | 1 | LM         |       |
| 113 | FLINT       | 1 |            |       |
| 114 |             |   |            |       |
| 115 |             | 1 |            |       |
| 116 | FLINT       | 1 |            |       |
| 117 | EA2         | 1 | PM/MOD     |       |
|     | FLINT       | 1 |            |       |
|     | FLINT       | 1 |            |       |
|     | EA2         | 1 | PM/MOD     |       |
| 121 |             |   |            |       |
| 122 | STONE       | 1 |            |       |
| 123 | STONE       | 1 |            |       |
| 124 | FLINT       | 1 |            |       |
| 125 | FLINT       | 1 |            |       |
| 126 | FLINT       | 1 |            |       |
| 127 | STONE/FLINT | 1 |            |       |
| 128 | FLINT       | 1 |            |       |
| 129 | FLINT       | 1 |            |       |
| 130 | FLINT       | 1 |            |       |
| 131 | FLINT       | 1 |            |       |
| 132 | STONE/FLINT | 1 | D) (/) (OD |       |
| 133 | EA2         | 1 | PM/MOD     |       |
| 134 | FLINT       | 1 |            |       |
| 135 | FLINT       | 1 |            |       |
| 136 | FLINT       | 1 | TM         |       |
| 137 | MS3<br>MS3  | 1 | LM         |       |
| 138 | 17133       | 1 | LM         |       |

| 139 | FLINT       | 1 |        |            |
|-----|-------------|---|--------|------------|
| 140 | EA          | 1 | MOD    | flower pot |
| 141 | EA1/2       | 1 | EPM    |            |
| 142 | FLINT       | 1 |        |            |
| 143 | FLINT       | 1 |        |            |
| 144 | EA6         | 1 | LPM    |            |
| 145 | EA2         | 1 | PM/MOD |            |
| 146 | FLINT       | 1 |        |            |
| 147 | FLINT       | 1 |        |            |
| 148 | FLINT       | 1 |        |            |
| 149 | FLINT       | 1 |        |            |
| 150 | FLINT       | 1 |        |            |
| 151 | STONE/FLINT | 1 |        |            |
| 152 | EA6         | 1 | LPM    |            |
| 153 | CW/MB       | 1 | LM/EPM |            |
| 154 | EA2         | 1 | PM/MOD |            |
| 155 | EA3         | 1 | LPM    |            |
| 156 | EA7         | 1 | PM     |            |
| 157 | EA2         | 1 | PM/MOD |            |
| 158 | EA2         | 1 | PM/MOD |            |
| 159 | SW          | 1 | PM/MOD |            |
| 160 |             |   |        |            |
| 161 | EA2         | 1 | PM/MOD |            |
| 162 | EA2         | 1 | EPM    | early      |
| 163 | EA2         | 1 | PM/MOD |            |
| 164 | STONE       | 1 |        |            |
| 165 | EA2         | 1 | PM/MOD |            |
| 166 | EA1         | 1 | PM     |            |
| 167 | CW/MB       | 1 | LM/EPM |            |
| 168 | EA2         | 1 | PM/MOD |            |
| 169 | EA2         | 1 | PM/MOD |            |
| 170 | EA2         | 1 | PM/MOD |            |
| 171 | EA1         | 1 | EPM    |            |
| 172 | EA1         | 1 | EPM    |            |
| 173 | EA          | 1 | MOD    | drain pipe |
| 174 | EA2         | 1 | PM/MOD |            |
| 175 | SW          | 1 | MOD    |            |
| 176 | EA6         | 1 | LPM    |            |
| 177 | EA6         | 1 | LPM    |            |
| 178 | EA6         | 1 | LPM    |            |
| 179 | EA2         | 1 | PM/MOD |            |
| 180 | EA3         | 1 | LPM    |            |
| 181 | CW/MB       | 1 | LM/EPM |            |
| 182 | STONE       | 1 |        |            |
| 183 | EA2         | 1 | PM/MOD |            |
| 184 | MS3         | 1 | MED/LM |            |
| 185 | EA6         | 1 | LPM    |            |
| 186 | EA2         | 1 | PM/MOD |            |
| 187 | EA6         | 1 | LPM    |            |
| 188 | EA          | 1 | MOD    | tile       |
| 189 | EA          | 1 | MOD    | tile       |
| 190 | EA4         | 1 | LPM    |            |
| 191 | EA1         | 1 | EPM    |            |
|     |             |   |        |            |

| 102          |            |   |        |                          |
|--------------|------------|---|--------|--------------------------|
| 192          | EA3        | 1 | LPM    |                          |
| 193          | STONE      | 1 |        |                          |
| 194          | EA1        | 1 | EPM    | hollow ware gl int & ext |
| 195          | EA6        | 1 | LPM    | flat roof tile           |
| 196          | EA7        | 1 | PM     |                          |
| 197          | FLINT      | 1 |        |                          |
| 198          | EA2        | 1 | PM/MOD |                          |
| 199          | FLINT      | 1 |        |                          |
| 200          | MS3        | 1 | MED/LM |                          |
| 201          | EA2        | 1 | PM/MOD |                          |
| 202          | EA2        | 1 | PM/MOD | jar rim, pos EPM         |
| 203          | EA1/2      | 1 | EPM    |                          |
| 204          | EA1        | 1 | EPM    |                          |
| 205          | EA2        | 1 | PM/MOD |                          |
| 206          | EA2        | 1 | PM/MOD |                          |
| 207          | EA1        | 1 | EPM    |                          |
| 208          | EA6        | 1 | LPM    |                          |
| 209          | EA7        | 1 | PM     |                          |
| 210          | EA3        | 1 | LPM    |                          |
| 211          | FLINT      | 1 | LIWI   |                          |
| 212          | SW         | 1 | MOD    |                          |
| 213          | EA         | 1 | MOD    | flavornat                |
| 214          |            | 1 |        | flower pot               |
| 215          | EA2        |   | PM/MOD |                          |
|              | EA2        | 1 | PM/MOD | 791 s                    |
| 216          | EA         | 1 | MOD    | tile                     |
| 217          | CW2        | 1 | LM     |                          |
| 218          | EA2        | 1 | PM/MOD |                          |
| 219          | EA6        | 1 | LPM    |                          |
| 220          | EA2        | 1 | PM/MOD |                          |
| 221          | EA2        | 1 | PM/MOD |                          |
| 222          | SW         | 1 | MOD    |                          |
| 223          | EA2        | 1 | PM/MOD |                          |
| 224          | EA7        | 1 | PM     |                          |
| 225          | EA2        | 1 | PM/MOD |                          |
| 226          | EA2        | 1 | PM/MOD |                          |
| 227          | FLINT      | 1 |        |                          |
| 228          | EA1/2      | 1 | EPM    |                          |
| 229          | EA6        | 1 | LPM    |                          |
| 230          | EA2        | 1 | PM/MOD |                          |
| 231          | EA2        | 1 | PM/MOD |                          |
| 232          | EA3        | 1 | LPM    |                          |
| 233          | EA         | 1 | MOD    | tile                     |
| 234          | EA2        | 1 | PM/MOD |                          |
| 235          | FLINT      | 1 |        |                          |
| 236          | EA2        | 1 | PM/MOD |                          |
| 237          | EA2        | 1 | PM/MOD |                          |
| 238          | CW/MB      | 1 | LM/EPM |                          |
| 239          | CW/MB      | 1 | LM/EPM |                          |
| 240          | EA6        | 1 | LPM    |                          |
| 241          | EA0<br>EA2 | 1 | PM/MOD |                          |
| 242          | EA2<br>EA2 | 1 | PM/MOD |                          |
| 243          | EA2<br>EA1 | 1 | EPM    |                          |
| 244          |            |   |        |                          |
| ∠ <b>+</b> + | EA6        | 1 | LPM    |                          |

| 245 | E 4.0      |   | DI (A (OD    |             |
|-----|------------|---|--------------|-------------|
| 245 | EA2        | 1 | PM/MOD       |             |
| 246 | EA2        | 1 | PM/MOD       |             |
| 247 | EA2        | 1 | PM/MOD       |             |
| 248 | EA3        | 1 | LPM          |             |
| 249 | PM         | 1 | EM           |             |
| 250 | EA2        | 1 | EPM          | early       |
| 251 | MP2        | 1 | LM           | brown glaze |
| 252 | EA6        | 1 | LPM          |             |
| 253 | EA6        | 1 | LPM          |             |
| 254 | MS3        | 1 | MED/LM       |             |
| 255 | EA2        | 1 | PM/MOD       |             |
| 256 | EA3        | 1 | LPM          |             |
| 257 | EA4        | 1 | LPM          |             |
| 258 | EA2        | 1 | PM/MOD       |             |
| 259 | MS3        | 1 |              |             |
| 260 |            |   | MED/LM       |             |
|     | EA2        | 1 | PM/MOD       |             |
| 261 | EA2        | 1 | PM/MOD       |             |
| 262 | MS3        | 1 | MED/LM       |             |
| 263 | EA1/2      | 1 | EPM          |             |
| 264 | EA2        | 1 | PM/MOD       |             |
| 265 | EA6        | 1 | LPM          |             |
| 266 | EA2        | 1 | PM/MOD       |             |
| 267 | EA2        | 1 | PM/MOD       |             |
| 268 | EA2        | 1 | PM/MOD       |             |
| 269 | FLINT      | 1 |              |             |
| 270 | EA1        | 1 | EPM          |             |
| 271 | EA2        | 1 | PM/MOD       |             |
| 272 | CW/MB      | 1 | LM/EPM       |             |
| 273 |            | _ |              |             |
| 274 | MP2        | 1 | LM           |             |
| 275 | MP4        | 1 | LM           |             |
| 276 | EA2        | 1 | PM/MOD       |             |
| 277 | FLINT      | 1 | TWINTOB      |             |
| 278 | EA2        | 1 | PM/MOD       |             |
| 279 | EA1        | 1 | EPM          |             |
| 280 | EA1<br>EA2 | 1 | PM/MOD       |             |
| 281 | EA2<br>EA1 | 1 |              |             |
| 282 |            |   | EPM          |             |
|     | EA2        | 1 | PM/MOD       |             |
| 283 | FLINT      | 1 | D) ( ) ( ) D |             |
| 284 | CHINA CLAY | 1 | PM/MOD       |             |
| 285 | EA2        | 1 | PM/MOD       |             |
| 286 | EA2        | 1 | PM/MOD       |             |
| 287 | EA2        | 1 | PM/MOD       |             |
| 288 | STONE      | 1 |              |             |
| 289 | EA1/2      | 1 | EPM          |             |
| 290 | EA         | 1 | MOD          | flower pot  |
| 291 | FLINT      | 1 |              |             |
| 292 | EA2        | 1 | PM/MOD       |             |
| 293 | EA6        | 2 | LPM          |             |
| 294 | EA2        | 1 | PM/MOD       |             |
| 295 | EA         | 1 | MOD          | tile        |
| 296 | EA2        | 1 | PM/MOD       | -           |
| 297 | EA6        | 2 | LPM          |             |
|     | -          | _ | -            |             |

| 298 | EA1/2        | 1      | EPM        |              |
|-----|--------------|--------|------------|--------------|
| 299 | EA2          | 1      | PM/MOD     |              |
| 300 |              |        |            |              |
| 301 | FLINT        | 1      |            |              |
| 302 | FLINT        | 1      |            |              |
| 303 | FLINT        | 1      |            |              |
| 304 | FLINT        | 1      |            |              |
| 305 | FLINT        | 1      |            |              |
| 306 | EA2          | 1      | PM/MOD     |              |
| 307 | FLINT        | 1      |            |              |
| 308 | FLINT        | 1      |            |              |
| 309 | EA1/2        | 1      | PM/MOD     |              |
| 310 | FLINT        | 1      |            |              |
| 311 | EA1/2        | 1      | PM/MOD     |              |
| 312 | FLINT        | 1      |            |              |
| 313 | FLINT        | 1      |            |              |
| 314 | FLINT        | 1      |            |              |
| 315 | FLINT        | 1      |            |              |
| 316 | FLINT        | 1      |            |              |
| 317 | EA2          | 1      | PM/MOD     |              |
| 318 | FLINT        | 1      | 1111/11102 |              |
| 319 | FLINT        | 1      |            |              |
| 320 | FLINT        | 1      |            |              |
| 321 | FLINT        | 1      |            |              |
| 322 | EA           | 1      | MOD        | cbm          |
| 323 | FLINT        | 1      | WOD        | COIII        |
| 324 | EA2          | 1      | PM/MOD     |              |
| 325 | EA1/2        | 1      | PM         | brown gl     |
| 326 | EA1/2<br>EA2 | 1      | PM/MOD     | blowii gi    |
| 327 | EA2          | 1      | PM/MOD     |              |
| 328 | EA2<br>EA6   | 1      | LPM        |              |
| 329 | EA1/2        | 1      | PM/MOD     |              |
| 330 | FLINT        | 1      | I WI/WIOD  |              |
| 331 | EA1          | 1      | EPM        |              |
| 332 |              | 1      |            |              |
| 333 | EA3          | 1      | LPM        |              |
| 334 | FLINT        | 1      |            |              |
| 335 |              |        |            |              |
| 336 | EAO          | 1      | DM/MOD     |              |
| 337 | EA2          | 1<br>1 | PM/MOD     |              |
| 338 | STONE        |        | DM/MOD     |              |
| 339 | EA2          | 1      | PM/MOD     |              |
| 340 | EA6          | 1<br>1 | LPM        |              |
|     | STONE        | _      | DI MATOD   | 11 . 1 1     |
| 341 | EA2          | 1      | PM/MOD     | yellowish gl |
| 342 | EA1/2        | 1      | EPM        |              |
| 343 | EA2          | 1      | PM/MOD     |              |
| 344 | EA2          | 1      | PM/MOD     |              |
| 345 | EA3          | 1      | LPM        |              |
| 346 | FLINT        | 1      |            |              |
| 347 | EA1          | 1      | EPM        |              |
| 348 | EA7          | 1      | PM/MOD     |              |
| 349 | EA           | 1      | MOD        | cbm          |
| 350 | EA3          | 1      | LPM        |              |
|     |              |        |            |              |

| 351 | MP2        | 1      | LM      |                                       |
|-----|------------|--------|---------|---------------------------------------|
| 352 | CW/MB      | 1      | LM/EPM  |                                       |
| 353 | EA7        | 1      | PM      | trailed                               |
| 354 | EA2        | 1      | PM/MOD  |                                       |
| 355 | EA2        | 1      | PM/MOD  |                                       |
| 356 | EA7        | 1      | PM      | trailed/feathered                     |
| 357 | EA2        | 1      | PM/MOD  |                                       |
| 358 | EA1/2      | 1      | EPM     | sandy, brown gl                       |
| 359 | CW/MB      | 1      | LM/EPM  | · · · · · · · · · · · · · · · · · · · |
| 360 | MS3        | 1      | MED/LM  |                                       |
| 361 | EA2        | 1      | PM/MOD  |                                       |
| 362 | EA2        | 1      | PM/MOD  |                                       |
| 363 | EA3        | 1      | LPM     |                                       |
| 364 | EA         | 1      | MOD     | flower pot                            |
| 365 | EA         | 1      | MOD     | flower pot                            |
| 366 | FLINT      | 1      | WOD     | nower pot                             |
| 367 | STONE      | 1      |         |                                       |
| 368 | EA2        | 1      | PM/MOD  |                                       |
| 369 | EA2<br>EA  | 1      |         | tile                                  |
| 370 | EA1        |        | MOD     | lile                                  |
| 371 |            | 1<br>1 | EPM     |                                       |
|     | FLINT      |        | MOD     | 41.                                   |
| 372 | EA         | 1      | MOD     | tile                                  |
| 373 | CHINA CLAY | 1      | PM/MOD  | tobacco pipe stem                     |
| 374 | CW/MB      | 1      | LM/EPM  |                                       |
| 375 | EA2        | 1      | PM/MOD  |                                       |
| 376 | EA2        | 1      | PM/MOD  |                                       |
| 377 | CHINA CLAY | 1      | PM/MOD  | tobacco pipe stem                     |
| 378 | EA1        | 1      | EPM     |                                       |
| 379 | COAL       | 1      |         |                                       |
| 380 | EA6        | 1      | LPM/MOD |                                       |
| 381 | EA3        | 1      | LPM     |                                       |
| 382 | EA6        | 1      | LPM/MOD |                                       |
| 383 | EA         | 1      | MOD     | flower pot                            |
| 384 | EA6        | 1      | LPM/MOD | painted dec                           |
| 385 | EA2        | 1      | PM/MOD  |                                       |
| 386 | EA2        | 1      | PM/MOD  |                                       |
| 387 | EA2        | 1      | PM/MOD  |                                       |
| 388 | EA1/2      | 1      | PM      |                                       |
| 389 | EA         | 1      | MOD     | cbm                                   |
| 390 | EA1/2      | 1      | PM      | brown gl                              |
| 391 | EA1/2      | 1      | EPM     | sandy, brown gl                       |
| 392 | EA2        | 1      | PM/MOD  |                                       |
| 393 | EA         | 1      | MOD     | tile                                  |
| 394 | EA2        | 1      | PM/MOD  |                                       |
| 395 | EA         | 1      | MOD     | tile                                  |
| 396 | EA         | 1      | MOD     | flower pot                            |
| 397 | EA2        | 1      | PM/MOD  | •                                     |
| 398 | EA6        | 1      | LPM     |                                       |
| 399 | EA3        | 1      | LPM     |                                       |
| 400 | EA2        | 1      | PM/MOD  |                                       |
| 401 | FLINT      | 1      |         |                                       |
| 402 | EA         | 1      | MOD     | tile                                  |
| 403 | EA         | 1      | PM/MOD  | tile                                  |
|     |            |        |         |                                       |

| 404        | EA             | 1      | MOD              | tile - composite  |
|------------|----------------|--------|------------------|-------------------|
| 405        | MS3            | 1      | MED/LM           |                   |
| 406        | EA6            | 1      | LPM              | ?roof tile        |
| 407        | EA2            | 1      | PM/MOD           |                   |
| 408        | EA2            | 1      | PM/MOD           |                   |
| 409        | EA2            | 1      | PM/MOD           |                   |
| 410        | EA1/2          | 1      | PM               |                   |
| 411        | CW/MB          | 1      | LM/EPM           |                   |
| 412        | FLINT          | 1      |                  |                   |
| 413        | FLINT          | 1      |                  |                   |
| 414        | EA1            | 1      | EPM              |                   |
| 415        | FLINT          | 1      |                  |                   |
| 416        | EA2            | 1      | PM/MOD           |                   |
| 417        | FLINT          | 1      |                  |                   |
| 418        | EA6            | 1      | LPM              |                   |
| 419        | EA             | 1      | MOD              | tile              |
| 420        | EA7            | 1      | PM               | trailed/feathered |
| 421        | EA1/2          | 1      | PM               |                   |
| 422        | MS3            | 1      | MED              |                   |
| 423        | EA2            | 1      | PM/MOD           |                   |
| 424        | EA2            | 1      | PM/MOD           |                   |
| 425        | EA             | 1      | MOD              | cbm               |
| 426        | EA2            | 1      | PM/MOD           | -                 |
| 427        | EA             | 1      | MOD              | flower pot        |
| 428        | STONE          | 1      |                  |                   |
| 429        | EA             | 1      | MOD              | tile              |
| 430        | MP2            | 1      | LM               |                   |
| 431        | MS3            | 1      | MED/LM           |                   |
| 432        | EA2            | 1      | PM/MOD           |                   |
| 433        | EA1            | 1      | EPM              |                   |
| 434        | FLINT          | 1      |                  |                   |
| 435        | FLINT          | 1<br>1 | PM               |                   |
| 436        | EA1/2          | 1      | PIVI             |                   |
| 437        | FLINT<br>EA1/2 | 1      | DM               |                   |
| 438        |                |        | PM               |                   |
| 439<br>440 | MS3<br>EA1/2   | 1<br>1 | MED<br>PM        |                   |
| 441        |                |        |                  |                   |
| 442        | EA2            | 1      | PM/MOD<br>LPM    |                   |
| 443        | EA3<br>STONE   | 1      | LPM              |                   |
| 444        |                | 1      | EDM              |                   |
| 445        | EA1            | 1      | EPM<br>PM/MOD    |                   |
| 446        | EA2<br>EA1/2   | 1      | PM/MOD<br>PM     |                   |
| 447        | FLINT          | 1      | I IVI            |                   |
| 448        | EA2            | 1      | PM/MOD           |                   |
| 449        |                |        |                  |                   |
| 450        | MS3<br>CW/MB   | 1      | MED/LM<br>LM/EPM |                   |
| 451        | EA2            | 1      | PM/MOD           |                   |
| 452        | EA2<br>EA2     | 1      | PM/MOD<br>PM/MOD |                   |
| 453        | EA2<br>EA2     | 1      | PM/MOD<br>PM/MOD |                   |
| 454        | EA2<br>EA1/2   | 1      | PM/MOD<br>PM     |                   |
| 455        | EA EA          | 1      | MOD              | flower pot        |
| 456        |                | 1      | 11101            | nower pot         |
|            |                |        |                  |                   |

| 457        | EA1        | 1 | EPM              |              |
|------------|------------|---|------------------|--------------|
| 458        | EA2        | 1 | PM/MOD           |              |
| 459        | EA3        | 1 | LPM              |              |
| 460        | EA1/2      | 1 | PM               |              |
| 461        | EA         | 1 | MOD              | tile         |
| 462        | EA6        | 1 | MOD              | brown gl     |
| 463        | SW         | 1 | MOD              |              |
| 464        | EA1        | 1 | EPM              |              |
| 465        | MP2        | 1 | LM               |              |
| 466        | EA2        | 1 | PM/MOD           |              |
| 467        | EA1        | 1 | EPM              |              |
| 468        | STONE      | 1 |                  |              |
| 469        | EA2        | 1 | PM/MOD           |              |
| 470        | EA3        | 1 | LPM              |              |
| 471        | EA2        | 1 | PM/MOD           |              |
| 472        | EA2        | 1 | PM/MOD           |              |
| 473        | STONE      | 1 |                  |              |
| 474        | EA2        | 1 | PM/MOD           |              |
| 475        | EA6        | 1 | LPM              |              |
| 476        | EA         | 1 | MOD              | tile         |
| 477        | MP2        | 1 | LM               | tiic         |
| 478        | EA6        | 1 | LPM              |              |
| 479        | EA2        | 1 | PM/MOD           |              |
| 480        | EA         | 1 | MOD              | tile         |
| 481        | EA6        | 1 | LPM              | tiic         |
| 482        | EA         | 1 | MOD              | ?flower por  |
| 483        | EA6        | 1 | LPM              | : Hower por  |
| 484        | EA1        | 1 | EPM              |              |
| 485        | EA1<br>EA2 | 1 | PM/MOD           |              |
| 486        | EA2<br>EA3 | 1 | LPM              |              |
| 487        | EA6        | 1 | LPM/MOD          |              |
| 488        |            | 1 | LPM/MOD          |              |
| 489        | EA6<br>EA7 | 1 | PM/MOD           | tunilad alim |
| 490        |            | 1 | PM/MOD<br>PM/MOD | trailed slip |
| 491        | EA2        |   | MED/LM           |              |
| 492        | MS3        | 1 |                  |              |
| 493        | EA2        | 1 | PM/MOD           |              |
| 493        | EA2        | 1 | PM/MOD           |              |
| 495        | EA2        | 1 | PM/MOD           |              |
| 493        | EA2        | 1 | PM/MOD           |              |
| 490        | EA2        | 1 | PM/MOD           |              |
|            | EA2        | 1 | PM/MOD           |              |
| 498<br>499 | EA2        | 1 | PM/MOD           |              |
|            | EA2        | 1 | PM/MOD           |              |
| 500        | EA6        | 1 | LPM              |              |
| 501        | EA3        | 1 | LPM              |              |
| 502        | EA1/2      | 1 | PM PM (MOD       |              |
| 503        | EA1/2      | 1 | PM/MOD           |              |
| 504        | EA1/2      | 1 | PM               |              |
| 505        | EA6        | 1 | LPM              |              |
| 506        | MS3        | 1 | MED/LM           |              |
| 507        | EA2        | 1 | PM/MOD           |              |
| 508        | EA2        | 1 | PM/MOD           |              |
| 509        | EA1/2      | 1 | PM/MOD           |              |
|            |            |   |                  |              |

| 510        |              |           |                                |
|------------|--------------|-----------|--------------------------------|
| 510        | MS3 1        | MED       | soft fired                     |
| 511        | FLINT 1      |           |                                |
| 512        | FLINT 1      |           |                                |
| 513        | MS3 1        | MED       |                                |
| 514        | EA 1         | MOD       | tile                           |
| 515        | FLINT 1      |           |                                |
| 516        | FLINT 1      |           |                                |
| 517        | MS3 1        | MED/LM    |                                |
| 518        | FLINT 1      |           |                                |
| 519        | FLINT 1      |           |                                |
| 520        | CW/MB 1      | LM/EPM    |                                |
| 521        | EA1 1        | EPM       |                                |
| 522        | FLINT 1      |           |                                |
| 523        | EA2 1        | PM/MOD    |                                |
| 524        | EA3 1        | LPM       |                                |
| 525        | FLINT 1      |           |                                |
| 526        | EA1 1        | EPM       |                                |
| 527        | EA2 1        | PM/MOD    |                                |
| 528        | EA2 1        | PM/MOD    |                                |
| 529        | FLINT 1      | 111,11102 |                                |
| 530        | EA 1         | MOD       | tile                           |
| 531        | EA2 1        | PM/MOD    | tile                           |
| 532        | EA 1         | MOD       | cbm                            |
| 533        | EA2 1        | PM/MOD    | Com                            |
| 534        | FLINT 1      | I WI/WIOD |                                |
| 534        | MY 1         | PM        |                                |
| 535        | EA3          |           |                                |
| 536        |              | LPM       |                                |
| 537        | EA2 1        | PM/MOD    | 4:1-                           |
|            | EA 1         | MOD       | tile                           |
| 538<br>539 | EA 1         | MOD       | flower pot                     |
|            | E42 1        | DI (ALOD  |                                |
| 540        | EA2 1        | PM/MOD    |                                |
| 541        | EA1/2 1      | PM/MOD    |                                |
| 542        | EA6 1        | LPM       |                                |
| 543        | FLINT 1      |           |                                |
| 544        | EA3 1        | LPM       |                                |
| 545        | EA2 1        | PM/MOD    |                                |
| 546        | EA2 1        | PM/MOD    |                                |
| 547        | FLINT 1      |           |                                |
| 548        | EA2 1        | PM/MOD    |                                |
| 549        | EA1/2 1      | PM/MOD    |                                |
| 550        | EA3 1        | LPM       |                                |
| 551        | CW/MB 1      | LM/EPM    |                                |
| 552        | EA3 1        | LPM       |                                |
| 553        | EA2 1        | PM/MOD    |                                |
| 554        | CHINA CLAY 1 | PM/MOD    | tobacco pipe stem              |
| 555        | EA2 1        | PM/MOD    |                                |
| 556        | EA1/2 1      | PM/MOD    |                                |
| 557        | EA7 1        | PM/MOD    | trailed slip                   |
| 558        | EA2 1        | PM/MOD    | -                              |
| 559        | ?GLASS 1     | MOD       | cut - possibly from a bracelet |
| 560        | EA2 1        | PM/MOD    | - ·                            |
| 561        | EA1 1        | EPM       |                                |
|            |              |           |                                |

| 562        | EA6   | 1 | LPM             |                  |
|------------|-------|---|-----------------|------------------|
| 563        | EA1/2 | 1 | PM/MOD          |                  |
| 564        |       |   |                 |                  |
| 565        | EA    | 1 | MOD             | curved roof tile |
| 566        | EA2   | 1 | PM/MOD          |                  |
| 567        | EA2   | 1 | PM/MOD          |                  |
| 568        | EA2   | 1 | PM/MOD          |                  |
| 569        | EA2   | 1 | PM/MOD          |                  |
| 570        | EA6   | 1 | LPM             |                  |
| 571        | EA2   | 1 | PM/MOD          |                  |
| 572        | FLINT | 1 | I WI/WIOD       |                  |
| 573        | MP2   | 1 | LM              |                  |
| 574        | MS3   | 1 | MED             |                  |
| 575        | EA1   | 1 | EPM             |                  |
| 576        | MB    | 1 | EPM             |                  |
| 577        | EA2   | 1 | PM/MOD          |                  |
| 578        | CW/MB | 1 | LM/EPM          |                  |
| 579        | EA3   | 1 | LIM/EPIM<br>LPM |                  |
| 580        |       |   |                 |                  |
| 581        | EA2   | 1 | PM/MOD          |                  |
|            | EA2   | 1 | PM/MOD          |                  |
| 582<br>583 | EA2   | 1 | PM/MOD          |                  |
|            | SW    | 1 | MOD             |                  |
| 584        | EA2   | 1 | PM/MOD          |                  |
| 585        | EA1/2 | 1 | PM/MOD          |                  |
| 586        | EA1/2 | 1 | PM/MOD          |                  |
| 587        | EA2   | 1 | PM/MOD          |                  |
| 588        | CW/MB | 1 | LM/EPM          |                  |
| 589        | EA    | 1 | MOD             |                  |
| 590        | EA6   | 1 | LPM             |                  |
| 591        | EA    | 1 | MOD             | tile             |
| 592        | MS3   | 1 | MED/LM          |                  |
| 593        | EA1/2 | 1 | PM/MOD          |                  |
| 594        | SW    | 1 | MOD             |                  |
| 595        | EA1   | 1 | EPM             |                  |
| 596        | EA2   | 1 | PM/MOD          |                  |
| 597        | EA2   | 1 | PM/MOD          |                  |
| 598        | EA1/2 | 1 | PM/MOD          |                  |
| 599        | EA2   | 1 | PM/MOD          |                  |
| 600        | EA    | 1 | MOD             | tile             |
| 601        | STONE | 1 |                 |                  |
| 602        | EA    | 1 | MOD             | tile             |
| 603        | EA1/2 | 1 | PM/MOD          |                  |
| 604        | EA1/2 | 1 | PM/MOD          |                  |
| 605        | FLINT | 1 |                 |                  |
| 605        | MS3   | 1 | LM              |                  |
| 606        | EA    | 1 | MOD             | tile             |
| 607        | EA1/2 | 1 | PM/MOD          |                  |
| 608        | EA1/2 | 1 | PM/MOD          |                  |
| 609        | EA1/2 | 1 | PM/MOD          |                  |
| 610        | EA1/2 | 1 | PM/MOD          |                  |
| 611        | EA1/2 | 1 | PM/MOD          |                  |
| 612        | EA6   | 1 | LPM             |                  |
| 613        | EA    | 1 | MOD             | tile             |
|            |       | - | -               | -                |

| 614  | EA1/2        | 1 | PM/MOD        |                |
|------|--------------|---|---------------|----------------|
| 615  | EA1/2        | 1 | PM/MOD        |                |
| 616  | MP2          | 1 | LM            |                |
| 617  | EA1/2        | 1 | PM/MOD        |                |
| 618  | EA1/2        | 1 | PM/MOD        |                |
| 619  | EA1/2        | 1 | PM/MOD        |                |
| 620  | EA6          | 1 | LPM           |                |
| 621  | EA           | 1 | MOD           | tile           |
| 622  | FLINT        | 1 |               |                |
| 623  | EA1/2        | 1 | PM/MOD        |                |
| 624  | EA1/2        | 1 | PM/MOD        |                |
| 625  | EA6          | 1 | LPM           |                |
| 626  | EA1/2        | 1 | PM/MOD        |                |
| 627  | MP2          | 1 | LM            |                |
| 628  | EA1/2        | 1 | PM/MOD        |                |
| 629  | STONE        | 1 |               |                |
| 630  | EA1/2        | 1 | PM/MOD        |                |
| 631  | EA1          | 1 | EPM           |                |
| 632  | EA1/2        | 1 | PM/MOD        |                |
| 633  | FLINT        | 1 |               |                |
| 634  | CW/MB        | 1 | LM/EPM        |                |
| 635  | CW/MB        | 1 | LM/EPM        |                |
| 636  | EA1/2        | 1 | PM/MOD        |                |
| 637  | FLINT        | 1 | 1111/11102    |                |
| 638  | EA1/2        | 1 | PM/MOD        |                |
| 639  | D/ 11/2      | 1 | 110710101     |                |
| 640  |              |   |               |                |
| 641  |              |   |               |                |
| 642  |              |   |               |                |
| 643  |              |   |               |                |
| 644  | EA1/2        | 1 | PM/MOD        |                |
| 645  | L/11/2       | 1 | I IVI/IVIOD   |                |
| 646  |              |   |               |                |
| 647  |              |   |               |                |
| 648  |              |   |               |                |
| 649  |              |   |               |                |
| 650  | EA           | 1 | MOD           | tile           |
| 698  | LA           | 1 | MOD           | tile           |
| 699  |              |   |               |                |
| 700  | EA2          | 1 | PM/MOD        |                |
| 701  | EA2<br>EA2   | 1 | PM/MOD        |                |
| 701  | EA2<br>EA3   | 1 |               |                |
| 702  | EA3<br>EA2   | 1 | LPM<br>PM/MOD |                |
| 704  | EA2<br>EA1/2 | 1 | PM/MOD        |                |
| 704  |              | _ |               | g              |
| 706  | EA           | 1 | MOD           | flower pot     |
| 707  | EA3          | 1 | LPM           |                |
| 708  | EA1          | _ | EPM<br>PM/MOD |                |
| 708  | EA2          | 1 | PM/MOD        |                |
| 710  | EA2<br>CW2   | 1 | PM/MOD<br>LM  |                |
| 711  |              |   |               | florerom == =4 |
| 711  | EA<br>STONE  | 1 | MOD           | flower pot     |
| 713  | EA2          | 1 | PM/MOD        |                |
| , 13 | EA2          | 1 | 1 101/101010  |                |
|      |              |   |               |                |

| 714 | EA1   | 1 | EPM    |                     |
|-----|-------|---|--------|---------------------|
| 715 | SW    | 1 | MOD    |                     |
| 716 | CW/MB | 1 | LM     |                     |
| 717 | EA    | 1 | MOD    | flower pot          |
| 718 | EA1/2 | 1 | PM/MOD | •                   |
| 719 | EA    | 1 | MOD    | figurine ?Victorian |
| 720 | CW/MB | 1 | LM     |                     |
| 721 | EA2   | 1 | PM/MOD |                     |
| 722 | EA1/2 | 1 | PM/MOD |                     |
| 723 | CW/MB | 1 | LM     |                     |
| 724 | MS3   | 1 | MED    |                     |
| 725 | SW    | 1 | MOD    |                     |
| 726 | EA1/2 | 1 | PM/MOD |                     |
| 727 | EA1/2 | 1 | PM/MOD |                     |
| 728 | EA2   | 1 | PM/MOD |                     |
| 729 | EA2   | 1 | PM/MOD |                     |
| 730 | SW    | 1 | MOD    |                     |
| 731 | EA3   | 1 | LPM    |                     |
| 732 | EA1/2 | 1 | PM/MOD |                     |
| 733 | EA1/2 | 1 | PM/MOD |                     |
| 734 |       |   |        |                     |
| 735 |       |   |        |                     |
| 736 |       |   |        |                     |
| 737 |       |   |        |                     |
| 738 |       |   |        |                     |
| 739 | EA    | 1 | MOD    | tile                |
| 740 | EA2   | 1 | PM/MOD |                     |
| 741 |       |   |        |                     |
|     |       |   |        |                     |

# Appendix 3: The Design Specification

#### UNIVERSITY OF LEICESTER ARCHAEOLOGICAL SERVICES

#### Design Specification for archaeological work

Stephensons Green, Green Lane, Coalville, Leicestershire (SK 438 148)

#### Written scheme of investigation for Geophysical and Fieldwalking Surveys

For: William Davies Ltd and Jelson Ltd

#### 1. Introduction

- 1.1 This document sets out a Written Scheme of Investigation (WSI) to evaluate potential archaeological deposits at Stephensons Green, Coalville, Leicestershire (SK 438 148) in advance proposed residential development. An Archaeological Desk Based Assessment for the area has been prepared (Hunt 2008) and an Environmental Statement is in progress.
- 1.2 The proposed development area is located in the parish of Coalville (Grid. Ref. SK 438 148; figs.1 and 2). It covers an area of *c*. 79 ha currently used as agricultural land. The site lies in an area that once made up most of the parish of Whitwick, which lies to the north of Coalville. The area is currently made up of farm land and may have remained so since at least the medieval period.

The Historic Environment Record (HER) for Leicestershire and Rutland shows that there are several archaeological findspots within the area, including a leaf arrowhead of likely Late Neolithic date (MLE7326) a scatter of material that suggests a Neolithic-Bronze Age site (MLE9457), a medieval coin (MLE6973), and further medieval material (MLE10123). Further Neolithic and Roman sites are located close to the assessment area.

The fact that archaeological material has been found before within the assessment area, together with the undeveloped nature of the site would suggest that there is moderate to high potential for remains from the Neolithic-Bronze Age and medieval and post-medieval periods to be discovered during any groundworks associated with new development. In the absence of systematic survey there is unknown potential for archaeological remains from other periods.

#### 2. Geology and topography

- 2.1 The site lies to the north of Coalville town centre, on the northern side of Stephenson Way (part of the A511), and to the east and west of Green Lane, between Coalville and Whitwick in the District of North West Leicestershire.
- 2.2 The Ordnance Survey Geological Survey of Great Britain Sheet 155 shows that the underlying geology is likely to be Mercia Mudstone Group clay, possibly overlain by Till.
- 2.3 The northern part of the site lies at c.148m OD, rising to the south and east to 167m.

#### 3. Aim of the Surveys

3.1 The overall aim of the surveys is to gather sufficient information to establish the extent, condition, character and date (as far as circumstances permit) of any archaeological features and deposits within the area targeted for evaluation. Fieldwalking will be undertaken of the arable land while a Magnetic susceptibility survey is proposed to cover the pasture areas which cannot be subject to fieldwalking. Detailed gradiometry will then be undertaken

of areas identified as having archaeological potential by the fieldwalking and magnetic susceptibility surveys (Figure 2).

#### 4. SURVEY METHODOLOGY

#### 4.1 General Methodology

- 4.1.1 Geophysical and fieldwalking surveys are required over the areas identified above in order that an assessment can be made of the presence and extent of any archaeological deposits.
- 4.1.2 The geophysical survey will be sub-contracted to Stratascan, a registered organisation wit the Institute for Archaeologists (IfA). Suitable equipment will be used by a qualified archaeologists specialising in geophysical survey to cover an area as indicated in Figure 2. The results will then be interpreted and reported in a way that will give as much clarity as possible to the surveyed results enabling an informed decision on the nature of the archaeology. The specifications of the equipment and detailed methodology are outlined in Appendix 1.
- 4.1.3 The land for survey is mostly farmland. Access will be agreed with the landowners prior to access.
- 4.1.4 All geophysical survey work will adhere to guidance set out in English Heritage Research and Professional Services Guideline No.1: Geophysical survey in archaeological field evaluation (2008) and Geophysical Data in Archaeology: A Guide to Good Practice (Archaeology Data Service).
- 4.1.5 Available ploughed fields will be subject to a fieldwalking survey. The surveys will be committed to the standards and codes of conduct set out by the Institute for Archaeologists (ifA).

#### 4.2 Setting out of survey grids

4.2.1 The survey grids will be set out using a Global Positioning Satellite receiver. Partial grids shall be avoided wherever possible. Survey pegs will be set out in field boundaries and where possible be left in place. All survey grids will be plotted onto the OS digital base map with National Grid co-ordinates to enable the accurate location of trial trenches over anomalies.

#### 4.3 Specific Methodology: Geophysical survey

- 4.3.1 The equipment used for the Magnetic Susceptibility Survey will be an MS2 Magnetic Susceptibility meter manufactured by Bartington Instruments Ltd. A field coil known as an MS2D will be used to take field readings assessing the top 200mm or so of topsoil. To overcome the problem of ground contact all readings will be taken 4 5 times and an average taken. All obvious localised 'spikes' were ignored.
- 4.3.2 The magnetic survey will be carried out using a dual sensor Grad601-2 Magnetic Gradiometer manufactured by Bartlington Instruments Ltd. The Grad601-2 consists of two high stability fluxgate gradiometers suspended on a single frame. Each sensor has a 1m separation between the sensing elements increasing the sensitivity to small changes in the Earth's magnetic field.
- 4.3.3 The equipment will be zeroed and balanced at a 'magnetically quiet' location with the use of a non-magnetic tripod. The balancing point will be accurately laid out using a compass. The gradiometer will be switched on for a period of at least 30 minutes prior to balancing and placed outside to allow stabilisation of temperature. Metal objects and compasses will be removed to at least 50m from the balancing position. Balancing with the Grad601-2 is an automated process using electronic adjustments and is only required prior to the start of each survey session (usually 2 per day).

# 4.4 Specific Methodology: Fieldwalking

- 4.4.1 A programme of fieldwalking will be undertaken over all the available areas within the southeastern section where field conditions are conducive. The fieldwalking is to take place after the fields are ploughed, rolled and weathered for at least 3 weeks.
- 4.4.2 Pre-modern artefacts will be collected and bagged along 20m transects. The location of the finds will be plotted using hand held GPS loggers.

# 4.5 Sampling Interval

- 4.5.1 The magnetic susceptibility and fieldwalking surveys will be carried out on a 20m grid with readings for the MS being taken at the node points.
- 4.5.2 Magnetometry Readings will be taken at 0.25m centres along traverses 1m apart. This equates to 3600 sampling points in a full 30x30m grid.

#### 4.6 Depth of scan and resolution

- 4.6.1 Magnetic Susceptibility the MS2D coil assesses the average MS of the soil within a hemisphere of radius 200mm. This equates to a volume of some 0.016m<sup>3</sup> and maximum depth of 200mm. As readings are only at 20m centres this results in a coarse resolution but adequate to pick up trends in MS variations.
- 4.6.2 Magnetometry The Grad601-2 has a typical depth penetration of 0.5-1.0m. This would be increased in the presence of buried, strongly magnetic objects. The collection of data at 0.5m centres provides an appropriate methodology for balancing cost and time with resolution.

# 4.7 Data Capture

- 4.7.1 Magnetic Susceptibility and fieldwalking readings will be logged manually on site, and then transferred to the office where they will be entered into a computer and colour surfer plots produced.
- 4.7.2 Magnetometry Readings will be logged consecutively into the data logger which in turn is daily downloaded into a portable computer on site. At the end of each job, data will be transferred to the office for processing and presentation. An initial assessment of the data quality will be carried out by the survey team. After each survey session a site record sheet will be completed or updated as appropriate.

#### 4.8 Processing of data

- 4.8.1 Magnetometry Processing is performed using specialist software (e.g. Geoplot 3). Details of the software used and processing techniques should be provided by the Geophysical Survey Contractor.
- 4.8.2 Pre-modern artefacts will be collected from the fieldwalking surveys. These will be washed marked and identified.
- 4.8.3 All survey results will be plotted at an appropriate scale on an OS digital base map.

#### 4.9 Timetabling

4.9.1 It is proposed that the surveys will be undertaken following the harvest of the crop in early November 2009. The fieldwalking will be undertaken following four weeks weathering following ploughing.

#### 5. LIAISON/MONITORING

- 5.1 Unlimited access to monitor the project will be available to the Leicestershire Planning Archaeologists Client and his representatives subject to the health and safety requirements of the site.
- 5.2 Internal monitoring procedures will be undertaken including visits to the site by the project manager. These will ensure that project targets are met and professional standards are maintained.

#### 6. REPORT

- 6.1 Reports on the fieldwork will be provided following analysis of the surveys. It will be distributed to
  - The client
  - Leicestershire County Council, Planning Archaeologist
  - Leicestershire County Council, (HER)
- 6.2 The reports will contain sufficient detail to enable the results of the evaluation to be interpreted without recourse to the site archive.
- 6.3 The reports will include the following
  - Non-technical summary
  - Introduction (Site location and description, archaeological background, nature and location of the survey)
  - Method statement detailing methods and equipment used, results and conclusions.
  - Summary of results and significance
  - · Appendices of specialist reports
- 6.4 The reports will contain an accurate site plan showing the surveyed areas, raw data and interpretation of the principal features revealed. The data will be presented in map form on the OS digital map base, on A3 sheets at an appropriate scale; usually no scale smaller than 1:1000 is used. Maps will be constructed using AutoCAD and contain north arrows, scalebar, scale, title, figure number, key and date. Adjacent areas must also be included on the plan to allow the site to be accurately located as well as the grid co-ordinates used.

#### 7 Health and Safety

7.1 ULAS is covered by and adheres to the University of Leicester Statement of Safety Policy and uses the ULAS Health and Safety Manual (revised 2007) with appropriate risks assessments for all archaeological work. A draft Health and Safety statement for this project is in the Appendix. The relevant Health and Safety Executive guidelines will be adhered to as appropriate.

#### 8 Insurance

8.1 All ULAS work is covered by the University of Leicester's Public Liability and Professional Indemnity Insurance. The Public Liability Insurance is with St Pauls Travellers Policy No. UCPOP3651237 while the Professional Indemnity Insurance is with Lloyds Underwriters (50%) and Brit Insurances (50%) Policy No. FUNK3605.

#### 9. Bibliography.

EH, 2008 Geophysical survey in archaeological field evaluation (English Heritage 2008)

Hunt, L., , 2008 An Archaeological Desk-based Assessment for land at Stephensons Green, Green Lane, Coalville, Leicestershire (SK 438 148) ULAS report 2008-131

ADS Geophysical Data in Archaeology: A Guide to Good Practice

(Archaeology Data Service)

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26.09.2008

# Appendix 1: Geophysics-Methodology and Equipment

A detailed magnetometer survey will be carried out along the line of the new road. This measures the changes in the magnetic field resulting from differing features in the soil. Although these are usually weak, changes as small as 0.2 nano Tesla(nT) in an overall field strength of 48,000nT can be accurately detected using an appropriate instrument.

The systematic mapping of these anomalies will allow an estimate of the types of material present beneath the surface. Strong magnetic anomalies will be generated by buried iron-based objects such as kilns or hearths. More subtle features such as pits and ditches may be visible if they contain more humic material which is normally rich in magnetic iron oxides compared to the subsoil. For example the cutting and subsequent silting or backfilling of a ditch may result in a larger volume of weakly magnetic material accumulating in the trench. A weak magnetic anomaly should therefore appear in plan along the line of the ditch.

#### Setting out of survey grids

The survey grids will be set out using a Global Positioning Satellite receiver. Partial grids shall be avoided wherever possible.

#### Equipment

The magnetic survey will be carried out using a dual sensor Grad601-2 Magnetic Gradiometer manufactured by Bartlington Instruments Ltd. The Grad601-2 consists of two high stability fluxgate gradiometers suspended on a single frame. Each sensor has a 1m separartion between the sensing elements increasing the sensitivity to small changes in the Earth's magnetic field.

The equipment will be zeroed and balanced at a 'magnetically quiet' location with the use of a non-magnetic tripod. The balancing point will be accurately laid out using a compass. The gradiometer will be switched on for a period of at least 30 minutes prior to balancing and placed outside to allow stabilisation of temperature. Metal objects and compasses will be removed to at least 50m from the balancing position. Balancing with the Grad601-2 is an automated process using electronic adjustments and is only required prior to the start of each survey session (usually 2 per day).

#### Sampling Interval

Readings will be taken at 0.25m centres along traverses 1m apart. This equates to 3600 sampling points in a full 30x30m grid. Traverses would be surveyed in zig-zag mode.

#### Depth of scan and resolution

The Grad601-2 has a typical depth penetration of 0.5 - 1.0m. This would be increased in the presence of buried, strongly magnetic objects.

#### Data Capture

Readings are logged consecutively into the data logger which in turn is daily downloaded into a portable computer on site. At the end of each job, data is transferred to the office for processing and presentation. An initial assessment of the data quality will be carried out by the survey team. After each survey session a site record sheet will be completed or updated as appropriate.

Grid locations for the survey will be plotted onto the British Ordnance Survey Grid.

#### Processing of data

Processing is performed using the specialist software *Geoplot 3*. This can emphasise various aspects contained within the data but which are often not easily seen in the raw data. Basic processing of the magnetic data involves 'flattening' the background levels with respect to adjacent traverses and adjacent grids. 'Despiking' is also

performed to remove the anomalies resulting from small iron objects often found on agricultural land. Once the basic processing has flattened the background it is then possible to carry out further processing which may include low pass filtering to reduce 'noise' in the data and hence emphasise the archaeological or man-made anomalies. A basic processing sequence for magnetic survey includes despike (useful for display and allows further processing functions to be carried out more effectively by removing extreme values), zero mean grid (sets the background mean for each grid to zero and is useful for removing grid edge discontinuities) and zero mean traverse (sets the background mean of each traverse within a grid to zero and is useful for removing striping effects).

The following schedule shows the basic processing carried out on all processed magnetometer data used in this report:

Zero mean grid Threshold = 0.25 std.dev.

Zero mean traverse Last mean square fit = off
Despike X radius = 1 Y radius = 1

Threshold = 3 std. Dev. Spike replacement = mean

#### Presentation of data

The presentation of the data for each site involves the print out of the raw data both as grey scale and trace plots together with a grey scale plot of the processed data. Magnetic anomalies have been identified and plotted onto the 'Abstraction and Interpretation of Anomalies' drawing for the site.

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