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PERSIMMON HOMES (SOUTH MIDLANDS) LTD

BTR LAND, BROCKHILL EAST, REDDITCH, WORCESTERSHIRE

ARCHAEOLOGICAL EVALUATION REPORT

JUNE 2017

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JUNE 2017

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DESK BASED ASSESSMENTS
ARCHAEOLOGICAL EVALUATION
ARCHAEOLOGICAL EXCAVATION
GEOPHYSICAL SURVEY
TOPOGRAPHIC AND LANDSCAPE
SURVEY
HISTORIC BUILDING RECORDING
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SUMMARY

An archaeological evaluation was undertaken at BTR land, Brockhill East, Redditch, Worcestershire. It was commissioned by Persimmon Homes (South Midlands) Ltd, as part of the development of their new consented site for up to 296 units at Brockhill East.

Thirty-six trenches were excavated across the site and revealed a landscape that had been heavily altered by post-medieval open cast quarrying, especially in the north and east of the site. Along the edge of one quarry pit was a single pit that contained 23 sherds of Late Bronze Age pottery, possibly representing a single vessel. Alongside these sherds were fire-cracked stone and charcoal fragments, suggesting the use of hot-stone technology. Organic material was also noted as residues on the sherds. No heat alteration was evident within the feature, so it is considered likely that the pit was used for refuse and that the heating of the stones occurred elsewhere.

Ridge and furrow was recorded across the entire site along with a former post-medieval field boundary, present until the mid-20th century and upcast from the construction of the railway that runs along the southeast boundary of the site. No other features or deposits of potential archaeological origin were identified.

1 BACKGROUND

- 1.1.1 An archaeological evaluation was undertaken at BTR Land, Brockhill East, Redditch, Worcestershire (Site centred NGR: SP SP0366268840). It was commissioned by Persimmon Homes (South Midlands) Ltd ahead of their residential development of up to 296 dwellings, for which outline planning permission has been granted by Redditch Borough Council (2014/256/OUT).
- 1.1.2 A prehistoric enclosure (Reference: **WSM 46351**) has previously been excavated to the immediate west of the current area of investigation (Mann 2012) and as such it was thought that the proposed development had the potential to disturb archaeological deposits. Given the limited knowledge of the archaeological resource and the potential impact upon it from the proposed development, the Local Planning Authority (LPA) required a programme of archaeological evaluation by trial trenching to investigate this.
- 1.1.3 The definition of an archaeological field evaluation is 'a limited programme of non-intrusive and / or intrusive fieldwork which determines the presence or absence of archaeological features, structures, deposits, artefacts or ecofacts within a specified area or site. If such archaeological remains are present field evaluation defines their character, extent, quantity and preservation, and enables an assessment of their worth in a local, regional, national and international context as appropriate' (CIFA 2014a).
- 1.1.4 The project conformed to a brief prepared by Adrian Scruby and Aisling Nash, Historic Environment Advisors, Worcestershire County Council on behalf of Redditch District Council. A Written Scheme of Investigation (WSI) was produced (WA 2016) to provide a specific methodology based on the brief provided; this was approved by Adrian Scruby prior to the fieldwork taking place. This is in line with government advice as set out in Section 12 of the National Planning Policy Framework (DCLG 2012).
- 1.1.5 The fieldwork was undertaken by Worcestershire Archive and Archaeology Service (WAAS) under direct instruction and on behalf of Wardell Armstrong who managed all stages of the work and undertook all communications.
- 1.1.6 In addition, the archaeological evaluation by trial trenching conforms to the guidelines and standards laid down in the following documents:
- *Standard and Guidance for an Archaeological Evaluation*, Chartered Institute for Archaeologists: Reading (CIFA 2014a);

- *Code of Approved Conduct for the Regulation of Arrangements in Field Archaeology*, Chartered Institute for Archaeologists: Reading (CIFA 2014b);
- *Standard and Guidance for the collection, documentation, conservation and research of archaeological materials*, Chartered Institute for Archaeologists: Reading (CIFA 2014c);
- *Management of Archaeological Research Projects in the Historic Environment (Morphe)*, Historic England: London (HE 2015);
- *Wardell Armstrong Archaeology: Excavation Manual*, Wardell Armstrong Archaeology, internal document (WAA 2012);
- *Standards and guidelines for archaeological projects in Worcestershire* (WCC 2010).

2 AIMS

2.1.1 The general aims of the evaluation as outlined in the WSI were as follows;

- To determine the presence or absence of buried archaeological remains within the proposed development site;
- To determine the character, date, extent and distribution of any archaeological deposits and their potential significance;
- To determine levels of disturbance to any archaeological deposits from plough damage or from any other agricultural/industrial practices or later building activities;
- To investigate and record all deposits and features of archaeological interest within the areas to be disturbed by the current development;
- To determine the likely impact on archaeological deposits from the proposed development;
- To disseminate the results of the fieldwork through an appropriate level of reporting;
- To provide the LPA with appropriate information so that an informed decision can be made on the requirement for further mitigation should it be required.

3 METHODS

3.1 Documentary research

3.1.1 An archaeological desk-based assessment (DBA) was undertaken by CgMs (2011), which set out the known archaeological and historical background of the site, and provided an assessment of the known archaeological and historical potential up to 1km from the development area.

3.2 Fieldwork strategy

3.2.1 The archaeological evaluation by trial trenching was undertaken between the 3rd and 19th April 2017. The site code and reference number used by the Historic Environment Record to record archaeological "events" (Reference: **WSM 67930**) was used throughout.

3.2.2 Thirty-six trenches, amounting to just over 3,960m² in area, were excavated over the site area of 16.5ha, representing a sample of 2.4%. The location of the trenches is indicated in Figure 2.

3.2.3 A former sand pit is recorded to the north-west of the proposed development area. A small part of the proposed development area lies within the extent of the former sand pit, and was therefore excluded from the geophysical survey, and from any archaeological trenching. Trenches were placed to best catch any anomalies recorded during the geophysical survey and additional trenches were placed on a random grid array designed to catch any linear features regardless of orientation as well as identify any specific areas of activity (WA 2016).

3.2.4 After fieldwork commenced, six trenches had to be relocated due to factors that only became apparent once on site; Trench 24 was moved c.10m west in order to keep the requisite distance from the nearby Red Ditch watercourse; Trenches 26, 29 and 30 were repositioned around visible and known quarrying activity in the south-west; and Trenches 32 and 33 were moved due to safety considerations concerning the extreme gradient of the south-west of the site.

3.2.5 Deposits considered not to be significant were removed under constant archaeological supervision using a 360° tracked excavator, employing a toothless bucket. Subsequent excavation was undertaken by hand. The trenches were left to 'weather' for a minimum of 24 hours to allow discrete features to become visible after which the trenches were cleaned by hand and recorded. Clean surfaces were inspected and selected deposits were excavated to retrieve artefactual material and

palaeoenvironmental samples, as well as to determine their form, function and date. Deposits were recorded according to the agreed methodology laid out in the WSI (WA 2016) and standard Worcestershire Archaeology practice (WAAS 2012). On completion, all trenches were reinstated by replacing the excavated material.

3.3 Structural assessment

3.3.1 All fieldwork records were checked and cross-referenced. Assessment was effected through a combination of structural, artefactual and ecofactual evidence, allied to the information derived from other sources.

3.4 Artefact methodology

3.4.1 The finds work reported here conforms to the following guidance: *Standard and Guidance for the collection, documentation, conservation and research of archaeological materials* (ClfA 2014c), *Archaeological archives: a guide to the best practice in the creation, compilation, transfer and curation* (Brown 2011) and *A Standard and Guidance to Best Practice for Archaeological Archiving in Europe* (Perrin *et al.* 2014).

3.4.2 Recovery of artefacts was undertaken according to the agreed methodology set out within the WSI (WA 2016) and standard Worcestershire County practice (WCC 2010).

3.5 Method of assessment

3.5.1 All hand-retrieved finds were examined. They were identified, quantified and dated to period and, where possible, a terminus post quem date was produced for each stratified context. The date was used for determining the broad date of phases defined for the site. All information was recorded on a pro forma Microsoft Access database.

3.5.2 No artefacts from palaeoenvironmental samples were examined.

3.5.3 The pottery and ceramic building material was examined by eye and, where necessary, under x20 magnification. It was referenced by fabric type to the fabric reference series maintained by WAAS (Hurst and Rees 1992 and www.worcestershireceramics.org).

3.6 Palaeoenvironmental methodology

3.6.1 The palaeoenvironmental assessment conforms to relevant sections of *Standard and Guidance for an Archaeological Evaluation* (ClfA 2014a), *Environmental Archaeology: A guide to the theory and practice of methods, from sampling and recovery to post-excavation* (English Heritage 2011), and *Environmental archaeology and archaeological evaluations. Recommendations concerning the environmental*

component of archaeological evaluations in England (AEA 1995).

3.6.2 Samples were taken according to the agreed methodology set out in the WSI (WA 2016) and standard Worcestershire County practice (WCC 2010). A total of two samples (each of 10 litres) were taken from the site (Table 4). However, only pit fill (405) was assessed.

3.7 Processing and assessment

3.7.1 The sample was processed by flotation using a Siraf tank. The flot was collected on a 300mm sieve and the residue retained on a 1mm mesh. This allows for the recovery of items such as small animal bones, molluscs and seeds.

3.7.2 The residue was scanned by eye and the abundance of each category of environmental remains estimated. A magnet was also used to test for the presence of hammerscale. The flot was scanned using a low power MEIJI stereo light microscope and plant remains identified using modern reference collections maintained by WAAS, and a seed identification manual (Cappers et al 2012). Nomenclature for the plant remains follows the New Flora of the British Isles, 3rd edition (Stace 2010).

3.7.3 Charcoal was examined under a low power MEIJI stereo light microscope in order to determine the presence of oak and non-oak charcoal.

3.8 Discard policy

3.8.1 Remaining sample material and scanned residues will be discarded after a period of three months following submission of this report unless there is a specific request to retain them.

3.9 Statement of confidence in the methods and results

3.9.1 The methods adopted allow a high degree of confidence that the aims of the project have been achieved.

4 THE DEVELOPMENT SITE

4.1 Topography, geology and archaeological context

- 4.1.1 The site lies within agricultural land to the north of Redditch, west of Birmingham Road (A441), on an east facing slope with elevations ranging from c.130m AOD (Above Ordnance Datum) in the west to c.100m AOD in the east. The Red Ditch watercourse bounds the southwestern side of the site. The underlying geology of the site is mapped as mudstone and siltstone of the Mercia Mudstone group (BGS 2017). Some glaciofluvial deposits of sand and gravel are recorded on the west of the site. The overlying soils are slowly permeable seasonally waterlogged reddish fine loamy over clayey soils, fine loamy and clayey soils, known as Salop soils (Ragg *et al.* 1984).
- 4.1.2 An archaeological DBA (CgMs 2011) was produced on the known historical and archaeological background of the site and immediate vicinity. It is not intended to repeat that information here and what follows is a brief overview of that document, for more information please refer to the original report. All references where known are provided in relation to the Worcestershire Historic Environmental Records database.
- 4.1.3 The earliest recorded activity within the area of the site was in the form of an enclosure dating to the Iron Age to the south-west (Reference: **WSM 46351**), excavated by Worcestershire Archaeology (Mann 2012). Although no interior features relating to settlement were identified, a very rare Iron Age cremation, the first to be found in Worcestershire, was found in the upper fill of the recut enclosure ditch. The finds assemblage suggested both habitation and iron working of Middle to Late Iron Age date. No Romano-British pottery was recovered from the site, suggesting it was abandoned before this time (*Ibid.*). To the south and east of the site was the location of a saltway from Beoley to Droitwich (Reference: **WSM 37590**) which was established in the Romano-British era and is thought to have followed the course of the Red Ditch on its southern side (Cornah 2016).
- 4.1.4 To the north of the site is a deserted medieval settlement at Weights Lane (Reference: **WSM 00017**), and to the north-west of the site two areas of ridge and furrow were present (References: **WSM 09858** and **WSM 57466**), likely to be of the same date. The agricultural use of the area continued into the post-medieval period with the establishment of Lowans Hill Farm in the 18th century (References: **WSM 54852**, **WSM 41577** and **WSM 33278**) and then Ireland Farm in the 19th century (Reference: **WSM 55271**). Evidence of quarrying can be observed within the development area on the

1st edition Ordnance Survey Map, and a number of pits related to the quarrying of marl are also recorded around the area (Reference: **WSM 57467**).

4.2 **Current land-use**

4.2.1 At the time of the archaeological evaluation by trial trenching the site was laid to pasture.

5 RESULTS

5.1 Structural assessment

5.1.1 The trenches and features recorded are shown in Figs 2-6. The results of the structural assessment are presented below with detailed context descriptions provided in Appendix 1.

5.2 Phase 1: Natural deposits

5.2.1 The natural geology across the site comprised mudstones or weathered marls of the Mercia Mudstone Group overlain in some locations by mid-Pleistocene drift deposits of sand and gravel (Plates 1 and 3). The natural strata were observed between 0.3 and 1.28m below the ground surface, though most commonly between 0.4 and 0.7m. As might be expected, the natural strata were observed to be closest to the surface at the top and on the sides of the hill along the western side of site, becoming deeper at the base of the slope in the eastern half.

5.2.2 Colluvial layers, in either one or two visibly distinct bands, were observed in 19 of the 36 trenches and broadly correlate with those trenches aligned with the downward gradient of the hillside, and at its immediate base, as expected. In individual bands the colluvium was between 0.05m and 0.62m thick (Plates 2 and 4). Due to the lack of archaeological features on the site, it is not possible to determine the sequence of colluviation in the broader timescale of the area.

5.3 Phase 2: Prehistoric deposits

5.3.1 The sole evidence for prehistoric activity was represented by an oval pit in Trench 4 on the brow of a slope in the north-west of the site (Fig 5; Plates 6 and 7). This pit [404] measured 0.75m wide and 1.5m long, with a depth of 0.18m, with shallow sides and a flat base. It contained a single fill 405, that comprised a compact, mid-orangey brown silty clay, with abundant fragments of charcoal and approximately eight litres of fire cracked stone. The fill also yielded 23 fragments of Bronze Age pottery, possibly representing a single vessel. Whilst the inclusions within the fill suggest an association with fire, no evidence of scorching was observed around the edges of the pit itself.

5.4 Phase 3: medieval/Post medieval deposits

5.4.1 The shallow remnants of furrows were identified in Trenches 1, 3, 9 and 24, with a heavily truncated potential furrow in Trench 17. All the furrows were aligned roughly north-west to south-east, and were filled by a mid-greyish or orange brown clay silt.

5.4.2 In Trench 18, a north-west to south-east aligned ditch was excavated **[1804]** (Fig 6; Plate 5). It measured 1.62m in width by 0.52m in depth, and contained four fills, being a mixture of in-washed bank material and edge collapse. This ditch matched the location of a field boundary identified on the tithe plan of 1839 (CgMs 2011) and still present in photographs taken in 1945.

5.5 **Phase 4: undated deposits**

5.5.1 A small sub-circular feature **[2403]** was revealed in Trench 24. It was 0.08m deep, 0.9m wide, and 1.45m long, and after investigation was demonstrated to be a tree bowl based on morphological characteristics. Similarly, in Trench 36, feature **[3606]**, that measured 0.7m in width by 0.9m in length and descended to a depth of 0.09m was also demonstrated to be a tree bowl.

5.6 **Phase 5: modern deposits**

5.6.1 The site was covered with a subsoil of mid-reddish brown clayey silt, between 0.11 and 0.38m thick. This in turn was overlain by topsoil between 0.14 and 0.35m thick.

5.6.2 The various quarry pits that are indicated on historic mapping could be seen in the landscape, and Trench 29 was excavated across one of them. The quarry pit had clearly been left open rather than being backfilled, and so the natural ground was discovered directly beneath a thin turf layer.

5.6.3 A number of land drains criss-crossed the site, cut into the natural.

5.7 **Blank trenches**

5.7.1 The following trenches were devoid of archaeological features: 2, 3, 5-8, 10-17, 19-23, 25-35

6 ARTEFACT ASSESSMENT

6.1.1 The artefactual assemblage recovered is summarised in Tables 1-3.

6.1.2 Fifteen of the trenches (1–5, 13, 17–24, 31) produced finds, from eighteen stratified contexts. While finds dated predominantly to the post-medieval and modern periods, small quantities of Bronze Age and Romano-British pottery were also present (Table 1).

| <i>Table 1 Quantification of the assemblage</i> | | | | | |
|---|----------------|------------------|----------------------|-------|------------|
| Period | Material class | Material subtype | Object specific type | Count | Weight (g) |
| late Bronze Age | ceramic | earthenware | pot | 23 | 116 |
| Romano-British | ceramic | earthenware | pot | 5 | 114 |
| ?Romano-British | ceramic | earthenware | pot | 1 | 4 |
| medieval/post medieval | ceramic | fired clay | brick | 1 | 96 |
| medieval/post medieval | ceramic | fired clay | brick/tile | 3 | 20.5 |
| medieval/post medieval | ceramic | fired clay | roof tile | 16 | 752 |
| post med/modern | ceramic | earthenware | pot | 1 | 2 |
| post-med/modern | ceramic | earthenware | pot | 1 | 16 |
| post-med/modern | glass | green | bottle | 2 | 17 |
| post-med/modern | glass | pale blue | vessel | 1 | 9 |
| post-med/modern | glass | pale green | vessel | 1 | 4 |
| post-med/modern | stone | slate | fragment | 1 | 6 |
| post-medieval | ceramic | earthenware | clay pipe | 1 | 3 |
| post-medieval | ceramic | earthenware | pot | 5 | 208 |
| modern | ceramic | earthenware | pot | 53 | 467 |
| modern | ceramic | fired clay | roof tile | 1 | 114 |
| modern | glass | clear | bottle | 1 | 15 |
| undated | bone | animal bone | fragment | 1 | 1 |

| <i>Table 1 Quantification of the assemblage</i> | | | | | |
|---|----------------|------------------|----------------------|-------|------------|
| Period | Material class | Material subtype | Object specific type | Count | Weight (g) |
| undated | metal | slag(fe) | fragment | 2 | 25 |
| undated | organic | coal | fragment | 2 | 43 |
| undated | organic | shell | oyster | 1 | 11 |

| <i>Table 2 Quantification of the pottery by fabric</i> | | | | |
|--|-------------|---------------------------------------|-------|-----------|
| Broad period | Fabric code | Fabric common name | Count | Weight(g) |
| Bronze Age | 5.3 | Quartz and grog (earlier prehistoric) | 23 | 116 |
| Romano-British | 12 | Severn Valley ware | 5 | 114 |
| | 13 | Sandy oxidized ware | 1 | 4 |
| Post-medieval | 78 | Post-medieval red ware | 3 | 160 |
| | 91 | Post-medieval buff wares | 1 | 11 |
| | 108 | Midlands purple ware | 1 | 37 |
| Post-medieval/modern | 83 | Porcelain | 3 | 21 |
| Modern | 81.4 | Miscellaneous late stoneware | 2 | 70 |
| | 85 | Modern china | 50 | 394 |

6.2 Summary artefactual evidence by period

Bronze Age

- 6.2.1 Of particular significance was the presence of 23 fragmentary sherds of Late Bronze Age pottery from the fill **405** of a pit **[404]**, including a small, flat-topped rim sherd. These were all in the same coarse fabric, tempered with angular grog and sub-angular quartz, and were possibly from the same vessel. Most sherds were oxidised externally with a black core and internal surface. An early Bronze Age sherd in a similar fabric was noted from the previous excavation of the predominantly Iron Age enclosure (Reference: **WSM 46351**; Griffin 2012) to the immediate west of the current investigations.

Romano-British

6.2.2 Six sherds of Romano-British pottery were also recovered: one from the topsoil in Trench 23 (**2300**) and five from Trench 24 (from the topsoil (**2400**), subsoil (**2401**) and the fill of a tree hollow [**2403**], (fill **2404**). That from Trench 23 was an undiagnostic body sherd in Severn Valley ware, only broadly datable to the Romano-British period. The subsoil and tree hollow in Trench 24 produced three rim sherds from wide-mouthed jars in Severn Valley ware, all broadly dating to the 2nd to 3rd century (Webster 1976, fig 4.22, fig 5.24).

Post-medieval and modern finds

6.2.3 The remaining finds dated from the post-medieval to modern periods. Post-medieval wares included red wares and buff wares with black glaze, and a sherd of midlands purple ware. The modern pottery included a range of modern china, either plain or transfer-printed, along with occasional fragments of porcelain and stoneware. Other finds included clay pipe stems (not closely datable), and fragments of bottle and vessel glass. A number of fragments of flat roof tile were recovered, but these were not readily datable. Other finds were a fragment of slate roof tile, fragments of animal bone, slag, coal, and an oyster shell.

Table 3 Summary of context dating based on artefacts

| Context | Material class | Object specific type | Count | Weight (g) | Period | Start date | End date | Context tpq |
|---------|----------------|----------------------|-------|------------|-----------------|------------|----------|-------------|
| 100 | ceramic | clay pipe | 1 | 3 | post-medieval | | | 1800-2000 |
| 100 | ceramic | pot | 1 | 40 | post-medieval | 1600 | 1800 | |
| 100 | ceramic | pot | 12 | 146 | modern | 1800 | 2000 | |
| 200 | ceramic | pot | 1 | 10 | post-medieval | 1600 | 1800 | 1800-2000 |
| 200 | ceramic | pot | 1 | 61 | modern | 1800 | 1950 | |
| 200 | ceramic | pot | 4 | 26 | modern | 1800 | 2000 | |
| 300 | ceramic | pot | 1 | 16 | post-med/modern | 1750 | 2000 | 1800-2000 |

Table 3 Summary of context dating based on artefacts

| Context | Material class | Object specific type | Count | Weight (g) | Period | Start date | End date | Context tpq |
|---------|----------------|----------------------|-------|------------|----------------------------|------------|----------|-------------|
| 300 | ceramic | pot | 3 | 34 | modern | 1800 | 2000 | |
| 405 | ceramic | pot | 23 | 116 | late Bronze Age | -1000 | -800 | LBA |
| 500 | ceramic | pot | 1 | 9 | modern | 1800 | 2000 | 1800-2000 |
| 500 | ceramic | pot | 1 | 32 | modern | 1800 | 1950 | |
| 500 | organic | shell | 1 | 11 | undated | | | |
| 1300 | ceramic | roof tile | 1 | 43 | medieval/ post medieval | | | 1800-2000 |
| 1300 | glass | bottle, clear | 1 | 15 | modern | | | |
| 1300 | glass | bottle, green | 1 | 5 | post-med/modern | | | |
| 1700 | ceramic | pot | 1 | 3 | modern | 1750 | 2000 | 1750-2000 |
| 1700 | ceramic | roof tile | 2 | 18 | medieval/ post medieval | | | |
| 1701 | ceramic | pot | 1 | 4 | modern | 1800 | 2000 | 1800-2000 |
| 1809 | ceramic | roof tile | 1 | 67 | medieval/ post medieval | | | 1300-1800 |
| 1900 | ceramic | brick/tile | 2 | 20 | medieval/ post medieval | | | 1300-1800 |
| 1900 | ceramic | roof tile | 1 | 31 | medieval/ post medieval | | | |
| 1901 | ceramic | roof tile | 1 | 33 | medieval/ post medieval | | | 1300-1800 |

Table 3 Summary of context dating based on artefacts

| Context | Material class | Object specific type | Count | Weight (g) | Period | Start date | End date | Context tpq |
|---------|----------------|-----------------------|-------|------------|-------------------------------|------------|----------|-------------|
| 1906 | ceramic | brick | 1 | 96 | medieval/ post medieval | | | 1300-1800 |
| 1908 | ceramic | pot | 11 | 51 | modern | 1800 | 2000 | 1800-2000 |
| 1908 | glass | vessel, pale green | 1 | 4 | post- med/mod ern | | | |
| 1908 | metal | slag(fe) | 2 | 25 | undated | | | |
| 1908 | organic | coal | 1 | 26 | undated | | | |
| 2000 | bone | fragment | 1 | 1 | undated | | | 1800-2000 |
| 2000 | ceramic | pot | 1 | 110 | post- medieval | 1600 | 1800 | |
| 2000 | ceramic | pot | 4 | 25 | modern | 1800 | 2000 | |
| 2100 | ceramic | pot | 8 | 59 | modern | 1800 | 2000 | 1800-2000 |
| 2100 | ceramic | pot | 1 | 11 | post- medieval | 1700 | 1800 | |
| 2100 | ceramic | pot | 1 | 37 | post- medieval | 1600 | 1700 | |
| 2100 | ceramic | roof tile | 4 | 407 | medieval/ post medieval | | | |
| 2100 | glass | vessel, pale blue | 1 | 9 | post- med/mod ern | | | |
| 2200 | ceramic | brick/tile | 1 | 0.5 | medieval/ post medieval | | | 1300-1800 |
| 2300 | ceramic | pot | 1 | 36 | Roman | 43 | 400 | 1800-2000 |
| 2300 | ceramic | pot | 1 | 2 | post med/mod ern | 1750 | 2000 | |

Table 3 Summary of context dating based on artefacts

| Context | Material class | Object specific type | Count | Weight (g) | Period | Start date | End date | Context tpq |
|---------|----------------|----------------------|-------|------------|-------------------------------|------------|----------|-------------|
| 2300 | ceramic | pot | 6 | 17 | modern | 1800 | 2000 | |
| 2300 | ceramic | roof tile | 5 | 100 | medieval/ post medieval | | | |
| 2300 | glass | bottle, green | 1 | 12 | post- med/mod ern | | | |
| 2300 | stone | fragment | 1 | 6 | post- med/mod ern | | | |
| 2400 | ceramic | pot | 1 | 4 | Roman? | 43 | 400 | 1800-2000 |
| 2400 | ceramic | roof tile | 1 | 114 | modern | 1800 | 2000 | |
| 2401 | ceramic | pot | 3 | 35 | Roman | 100 | 299 | 100-299 |
| 2401 | organic | coal | 1 | 17 | undated | | | |
| 2404 | ceramic | pot | 1 | 43 | Roman | 100 | 299 | 100-299 |
| 3100 | ceramic | roof tile | 1 | 53 | medieval/ post medieval | | | 1300-1800 |

6.3 Discussion

6.3.1 The presence of Late Bronze Age pottery is significant, and provides the only dating for the pit in which they were found. The small quantity of Romano-British pottery hints at possible Romano-British activity in the wider area, with sherds coming from the topsoil, subsoil and a tree hollow, rather than defined features and so may relate only to agricultural activity, most likely the manuring of arable fields. There were no significant finds amongst the post-medieval and modern assemblage, and this also probably represents a general background scatter compatible with agricultural activity.

6.4 **Discard and retention**

- 6.4.1 All artefacts recovered during the course of the archaeological evaluation are the property of the landowner/client and any decision on discard and retention will be undertaken with them in the first instance.
- 6.4.2 The post-medieval and modern finds could be considered for discard, with the agreement of the receiving museum, but the Bronze Age and Romano-British pottery should be retained.

7 ENVIRONMENTAL ASSESSMENT

7.1.1 The environmental evidence recovered is summarised in Tables 4 to 6.

| <i>Table 4 List of bulk samples</i> | | | | | | | | |
|-------------------------------------|--------|-------------------|---------|------------|-------------------|----------------------|------------------|---------------|
| Context | Sample | Feature type | Fill of | Period | Sample volume (L) | Volume processed (L) | Residue assessed | Flot assessed |
| 405 | 2 | Pit | 404 | Bronze Age | 10 | 10 | Yes | Yes |
| 2802 | 1 | Layer (colluvium) | | Undated | 10 | 0 | No | No |

7.2 Animal bone

7.2.1 A single fragment of animal bone was recovered from the topsoil (**2000**).

7.3 Plant macrofossil remains

7.3.1 The results are summarised in Tables 5 and 6.

| <i>Table 5 Summary of remains from bulk samples</i> | | | | | | |
|---|--------|----------|---------------|-----------------|----------------------------------|---------------|
| Context | Sample | Charcoal | Charred plant | Uncharred plant | Artefacts | Comments |
| 405 | 2 | abt | occ | mod* | heat-cracked stones. Mod pot, | occ nut shell |

occ = occasional, mod = moderate, abt = abundant, * = probably modern and intrusive

| <i>Table 6 Plant remains from pit fill (405)</i> | | | | | | |
|--|--------|--------------------------|--|------------------|--|---------------------------------------|
| Context | Sample | Preservation type | Species detail | Category remains | Quantity/diversity + = 1 – 10, ++ = 11- 50 +++ = 51 – 100, ++++ = 101+ | Comment |
| 405 | 2 | waterlogged or uncharred | unidentified herbaceous root fragments | misc | +/low | probably intrusive |
| 405 | 2 | charred | unidentified | misc | +/low | unidentified charred organic material |
| 405 | 2 | charred | unidentified wood | misc | ++/l+++/low | |

Table 6 Plant remains from pit fill (405)

| Context | Sample | Preservation type | Species detail | Category remains | Quantity/diversity + = 1 – 10, ++ = 11- 50 +++ = 51 – 100, ++++ = 101+ | Comment |
|---------|--------|-------------------|--|------------------|--|---------|
| | | | fragments | | | |
| 405 | 2 | charred | <i>Corylus avellana</i> shell fragment | misc | +/low | |

7.3.2 Uncharred remains, consisting of mainly root fragments are assumed to be modern and intrusive as they are unlikely to have survived in the soils on site for long without charring or waterlogging.

7.3.3 Fragments of charcoal were moderately abundant and appeared to be mostly non-oak species, and have potential to provide information on wood fuel in use for general domestic cooking. This is likely to have derived from heating/cooking with hot stone technology as it was associated with fire-cracked stone, albeit redeposited. Occasional fragments of hazelnut shell and unidentified burnt, matted organic material (presumably cooked food) was also recovered. These are likely to be food remains burnt on a fire as a result of spillage. Although currently unidentified, information on burnt food remains can sometimes be gained from Scanning Electron Microscope (SEM) technology.

8 SYNTHESIS

- 8.1.1 For the majority of the site, there was little if any evidence of human activity, being limited to medieval or later agricultural practices. The Late Bronze Age pit and its assemblage of pottery being the only true archaeological feature of note, mainly due to the paucity of such finds within the region. Despite it currently appearing in isolation, it does not preclude it from being part of a wider landscape of dispersed activity in the Late Bronze Age although the extent of post-medieval quarrying focused along the crest and flanks of the ridge severely hampers the survivability and mapping of such early features.
- 8.1.2 The isolated Late Bronze Age pit on the high point in the north-west of the site contained a quantity of fire-cracked stone and charcoal indicating the use of hot-stone technology although the pit itself showed no evidence of heat alteration and was therefore likely to have been a refuse pit rather than a hearth or primary heating site. The palaeoenvironmental evidence from the fill reinforced the suggestion that this was a rubbish pit and/or that the assemblage may represent a single event of cooking.
- 8.1.3 The Iron Age enclosure site excavated c.750m south-west of the Late Bronze Age pit yielded a single piece of Bronze Age pottery, in a fabric similar to that recovered on the current site. It was concluded that the enclosure was not in existence in the Bronze Age but the pottery was evidence of some level of human presence in the wider area (Mann 2012).
- 8.1.4 The Bronze Age in Worcestershire has remained only sporadically investigated and thus poorly understood, with just a handful of sites of any size excavated (Hurst 2017). Whilst this pit remains in isolation, it does hint at some form of occupation within the wider landscape. Unfortunately, the quantity of quarrying activities severely restricts the potential for survival of this early activity in the immediate area and it is believed that this pit represents an isolated surviving outlier.
- 8.1.5 The presence of Romano-British pottery in the topsoil and subsoil suggests some level of activity in the landscape, though it seems to have been confined to low impact agricultural practices within the site. Medieval and post-medieval activity appears to have been similarly limited to low impact agricultural practices.

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APPENDIX 1

TRENCH DESCRIPTIONS

Main deposit descriptions

Trench 1

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.61m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) - top and bottom of deposits |
|---------|----------------|--|---|
| 100 | Topsoil | Moderately compact mid greyish brown clay loam | 0.0-0.3m |
| 101 | Subsoil | Firm light yellow brown silty clay | 0.3-0.61m |
| 102 | Natural | Firm mid brownish red silty clay marl | 0.61m+ |
| 103 | Fill of furrow | Moderately compact mid greyish brown clay loam | 0.61m+ |
| 104 | Cut of furrow | Unexcavated furrow | 0.61m+ |
| 105 | Fill of furrow | Moderately compact mid greyish brown clay loam | 0.61m+ |
| 106 | Cut of furrow | Unexcavated furrow | 0.61m+ |
| 107 | Fill of furrow | Moderately compact mid greyish brown clay loam | 0.61m+ |
| 108 | Cut of furrow | Unexcavated furrow | 0.61m+ |

Trench 2

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.35m

Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s)- top and bottom of deposits |
|---------|----------------|--|--|
| 200 | Topsoil | Moderately compact mid greyish brown clay loam | 0.0-0.22m |
| 201 | Subsoil | Firm mid reddish brown silty clay | 0.22-0.35m |
| 202 | Natural | Firm mid brownish red silty clay marl | 0.35m+ |

Trench 3

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.39m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 300 | Topsoil | Loose mid greyish brown clayey silt with rare charcoal flecking and rare sub-rounded pebbles | 0.0-0.22m |
| 301 | Subsoil | Firm mid orangey brown clayey silt | 0.22-0.39m |
| 302 | Natural | Firm mid brownish red clay marl with orangey yellow silty clay patches | 0.39m+ |
| 303 | Cut of furrow | Unexcavated furrow | 0.39m+ |

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|--------------------|--|---|
| 304 | Fill of furrow 303 | Moderately compact mid orangey brown clayey silt | 0.39m+ |
| 305 | Cut of furrow | Unexcavated furrow | 0.39m+ |
| 306 | Fill of furrow 305 | Moderately compact mid orangey brown clayey silt | 0.39m+ |

Trench 4

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.94m

Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|-----------------|--|---|
| 400 | Topsoil | Loose mid reddish brown silty loam | 0.0-0.2m |
| 401 | Subsoil | Moderately compact mid orangey brown clayey silt | 0.20-0.58m |
| 402 | Colluvium | Moderately compact light yellowish brown clayey silt | 0.58-0.94m |
| 403 | Natural | Moderately compact mid brownish red silty clay | 0.94m + |
| 404 | Pit | Shallow oval pit, 0.18m x 0.75m x 1.5m | 0.5m |
| 405 | Fill of pit 404 | Moderately compact mid orangey brown silty clay | 0.5m |

Trench 5

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.47m

Orientation: NE-SW

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 500 | Topsoil | Loose mid orangey brown clayey silt with rare sub-rounded pebbles | 0.0-0.26m |
| 501 | Subsoil | Moderately compact mid brownish red silty clay with rare sub-rounded pebbles | 0.26-0.47m |
| 502 | Natural | Firm mid pinkish red with blue flecks clay marl | 0.47m + |

Trench 6

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.4-1.1m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 600 | Topsoil | Moderately compact mid grey brown clay loam | 0.0-0.15m |
| 601 | Subsoil | Firm mid reddish brown silty clay | 0.15-0.39m |
| 602 | Colluvium | Firm light yellow brown silty clay, 8m spread | 0.39-0.62m |
| 603 | Natural | Firm mid brownish red silty clay marl | 0.4m – 1.1m+ |

Trench 7

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.96m

Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 700 | Topsoil | Moderately compact mid orangey brown clayey silt with rare sub rounded pebbles | 0.0-0.33m |
| 701 | Subsoil | Moderately compact mid reddish orange clayey silt with occasional pebbles and sub rounded stones c 3-7cm | 0.33-0.49m |
| 702 | Colluvium | Moderately compact mid greyish orange clayey silt with abundant iron panning/manganese | 0.49-0.72m |
| 703 | Colluvium | Firm light greyish green silty clay with occasional manganese flecking | 0.72-0.96m |
| 704 | Natural | Firm mid reddish brown clay marl with occasional gravel patches | 0.96m + |

Trench 8

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.46m

Orientation: N-S

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 800 | Topsoil | Loose mid reddish brown clayey silt with moderate sub rounded pebbles | 0.0-0.26m |
| 801 | Subsoil | Moderately compact mid brownish orange clayey silt with abundant sub rounded pebbles and stones c 3-6cm | 0.26-0.46m |
| 802 | Natural | Firm mid orangey red clay marl with frequent sand and gravel patches | 0.46m + |

Trench 9

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.72m

Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|--------------------|--|---|
| 900 | Topsoil | Loose mid orangey brown clayey silt with occasional sub rounded and sub angular pebbles | 0.0-0.23m |
| 901 | Subsoil | Moderately compact mid brownish orange clayey silt with occasional sub rounded pebbles and stones c3-5cm | 0.23-0.39m deep |
| 902 | Colluvium | Firm mid greyish yellow clayey silt with moderate sub rounded stones c 3-8cm | 0.39-0.72m deep |
| 903 | Natural | Firm mid brownish red clay marl with frequent gravel patches | 0.72m + |
| 904 | Cut of furrow | Unexcavated furrow | 0.72m + |
| 905 | Fill of furrow 904 | Moderately compact mid orangey brown clayey silt with moderate sub rounded pebbles and stones c2-5cm | 0.72m + |
| 906 | Cut of furrow | Unexcavated furrow | 0.72m + |
| 907 | Fill of furrow 906 | Moderately compact mid orangey brown clayey silt with moderate sub rounded pebbles and stones c2-5cm | 0.72m + |
| 908 | Cut of furrow | Unexcavated furrow | 0.72m + |
| 909 | Fill of furrow 908 | Moderately compact mid orangey brown clayey silt with moderate sub rounded pebbles and stones c2-5cm | 0.72m + |

Trench 10

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.45m

Orientation: N-S

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 1000 | Topsoil | Loose dark greyish brown clayey silt with occasional sub rounded pebbles and stones c 2-4cm | 0.0-0.22m |
| 1001 | Subsoil | Moderately compact mid orangey brown clayey silt with moderate sub rounded stones c2-5cm and frequent sub rounded pebbles | 0.22-0.45m |

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 1002 | Natural | Firm mid reddish brown clay marl with frequent gravel patches | 0.45m + |

Trench 11

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.65m

Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 1100 | Topsoil | Loose mid greyish brown clayey silt with rare sub rounded pebbles | 0.0-0.18m |
| 1101 | Subsoil | Moderately compact mid orangey brown clayey silt with occasional sub rounded pebbles | 0.18-0.34m |
| 1102 | Colluvium | Firm mid orangey red silty clay with occasional sub rounded stones c 2-4cm | 0.34-0.46m |
| 1103 | Colluvium | Firm mid orangey brown clayey silt with rare sub rounded stones c2-4cm | 0.46-0.65m |
| 1104 | Natural | Firm mid brownish red clay marl with frequent sand and gravel patches and bands | 0.65m + |

Trench 12

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.66m

Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 1200 | Topsoil | Loose mid greyish brown clayey silt with frequent sub rounded pebbles | 0.0-0.35m |
| 1201 | Subsoil | Moderately compact mid orangey brown clayey silt with frequent gravels and rare sub rounded stones c3-5cm | 0.35-0.48m |
| 1202 | Colluvium | Moderately compact mid greyish brown clayey silt with occasional sub rounded stones c3-5cm | 0.48-0.66m |
| 1203 | Natural | Firm mid reddish brown clay marl with frequent yellowy grey gravel patches | 0.66m + |

Trench 13

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.33m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 1300 | Topsoil | Loose mid orangey brown clayey silt with rare sub rounded pebbles | 0.0-0.15m |
| 1301 | Subsoil | Moderately compact mid yellowish brown clayey silt with frequent sub rounded pebbles and rare charcoal flecking | 0.15-0.33m |
| 1302 | Natural | Firm mid pinkish red clay marl with occasional sub rounded pebbles | 0.33m + |

Trench 14

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.54m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 1400 | Topsoil | Loose mid orangey brown clayey silt with occasional sub rounded pebbles | 0.0-0.32m |
| 1401 | Subsoil | Moderately compact mid yellowish brown clayey silt with occasional sub rounded pebbles and rare sub rounded stones c 5-8cm | 0.32-0.54m |
| 1402 | Natural | Firm mid pinkish red clay marl containing abundant gravels and sub rounded stones c5-8cm | 0.54m + |

Trench 15

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.46m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 1500 | Topsoil | Loose mid orangey brown clayey silt with rare sub rounded pebbles | 0.0-0.26m |
| 1501 | Subsoil | Moderately compact dark reddish brown clayey silt with moderate sub rounded pebbles and stones c 3-5cm | 0.26-0.46m |
| 1502 | Natural | Firm mid pinkish red clay marl with occasional gravel patches | 0.46m + |

Trench 16

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.31m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|-----------------------|---|---|
| 1600 | Topsoil | Loose mid reddish brown silty loam | 0.0-0.15m |
| 1601 | Subsoil | Moderately compact mid orangey brown clayey silt | 0.15-0.31m |
| 1602 | Natural | Compact mid red silty clay with occasional bands of looser yellowish brash. | 0.31m + |
| 1603 | Furrow | Unexcavated furrow | 0.31m + |
| 1604 | Fill of 1603 | Moderately compact mid yellowish brown brash | 0.31m + |
| 1605 | Irregular cut feature | Unexcavated | 0.31m + |
| 1606 | Fill of 1605 | Moderately compact light yellowish brown silty clay | 0.31m + |

Trench 17

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.69m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|---------------------------|--|---|
| 1700 | Topsoil | Loose mid reddish brown silty loam | 0.0-0.24m |
| 1701 | Subsoil | Moderately compact mid orangey brown clayey silt | 0.24-0.57m |
| 1702 | Colluvium | Compact light yellowish brown sandy silt | 0.57-0.69m |
| 1703 | Natural | Moderately compact red silty clay with banding of looser yellowish brash. | 0.69m + |
| 1704 | Sub rounded cut | | 0.69m + |
| 1705 | Fill of 1704 | Loose yellowish brash | 0.69m + |
| 1706 | Linear cut with branching | | 0.69m + |
| 1707 | Fill of 1706 | Moderately compact red and yellowish brown red clay mixed with yellowish brash | 0.69m + |

Trench 18

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.57m

Orientation: N-S

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 1800 | Topsoil | Loose mid orangey brown clayey silt | 0.0-0.26m |
| 1801 | Subsoil | Moderately compact mid reddish brown clayey silt | 0.26-0.37m |

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|-------------------------------|---|---|
| 1802 | Displaced superficial gravels | Moderately compact mid yellowish brown silty clay with abundant sub rounded and sub angular pebbles and stones c 5-8cm | 0.37-0.57m |
| 1803 | Natural | Firm pinkish red clay marl | 0.57m + |
| 1804 | Cut of boundary ditch | | 0.57- 1.09m |
| 1805 | Fill of 1804 | Soft dark greyish brown coarse sandy silt with occasional sub rounded stones c3-5cm and moderate charcoal flecks and fragments | 0.57-0.72m |
| 1806 | Fill of 1804 | Firm mid brownish red clay, no inclusions | 0.57-0.88m |
| 1807 | Fill of 1804 | Firm mid orangey red clay naturals with some darker silty additions and rare sub rounded pebbles | 0.57-1.02m |
| 1808 | Fill of 1804 | Moderately compact mid orangey brown clayey silt with occasional sub rounded pebbles and occasional charcoal flecks, one fragment of tile retrieved | 0.57- 1.09m |

Trench 19

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.46m

Orientation: NE-SW

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|-------------------------|---|---|
| 1900 | Topsoil | Loose mid orangey brown clayey silt | 0.0-0.3m |
| 1901 | Subsoil | Moderately compact mid brownish red silty clay with frequent sub rounded pebbles and stones c3-5cm | 0.3-0.46m |
| 1902 | Natural | Firm mid pinkish red clay marl with frequent gravel patches and rare sandy patches | 0.46m + |
| 1903 | Cut of land-drain | | 0.46-0.91m |
| 1904 | Fill of land drain 1903 | Land drain | 0.91m |
| 1905 | Fill of land drain 1903 | Moderately compact mid brownish red clay naturals, redeposited, with abundant slag\ bitumin fragments | 0.91-0.81m |
| 1906 | Fill of land drain 1903 | Moderately compact mid brownish red silty clay | 0.81-0.41m |
| 1907 | Fill of land drain 1903 | Moderately compact mid greenish grey silty clay | 0.67-0.79m |
| 1908 | Fill of land drain 1903 | Soft and loose dark greyish brown humic clayey silt topsoil | 0.46-0.67m |

Trench 20

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.69m

Orientation: NE-SW

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|------------------|--|---|
| 2000 | Topsoil | Loose mid orangey brown clayey silt | 0.0-0.26m |
| 2001 | Subsoil | Moderately compact mid brownish red clayey silt | 0.26-0.47m |
| 2002 | Colluvium | Moderately compact mid greyish brown clayey silt | 0.47-0.53m |
| 2003 | Colluvial spread | Moderately compact mid greyish brown clayey silt | 0.53-0.69m |
| 2004 | Natural | Firm mid pinkish red clay marl with frequent gravels and sub rounded stones c3-8cm | 0.69m + |

Trench 21

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.69m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 2100 | Topsoil | Loose mid reddish brown silty loam | 0.0-0.27m |
| 2101 | Subsoil | Moderately compact mid orangey brown clayey silt | 0.27-0.43m |
| 2102 | Colluvium | Loose light yellowish brown loamy very fine sand | 0.43-0.69m |
| 2103 | Natural | Moderately compact red silty clay with bands of yellowish looser brash | 0.69m + |

Trench 22

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.62m

Orientation: NE-SW

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 2200 | Topsoil | Loose mid reddish brown silty loam | 0.0-0.21m |
| 2201 | Subsoil | Moderately compact mid orangey brown clayey silt | 0.21-0.42m |
| 2202 | Colluvium | Loose light yellowish brown sandy silt | 0.42-0.62m |
| 2203 | Natural | Moderately compact mid red silty clay, with bands of yellowish brash | 0.62m + |

Trench 23

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.61m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 2300 | Topsoil | Loose mid reddish brown silty loam | 0.0-0.24m |
| 2301 | Subsoil | Moderately compact mid orangey brown clayey silt | 0.24-0.42m |
| 2302 | Colluvium | Compact mid yellowish brown clayey silt | 0.42-0.61m |
| 2303 | Natural | Moderately compact red silty clay with bands of yellowish brash | 0.61m + |

Trench 24

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.48m

Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|--|---|---|
| 2400 | Topsoil | Loose dark orangey brown clayey silt | 0.0-0.23m |
| 2401 | Subsoil | Moderately compact mid reddish brown silty clay with frequent sub rounded pebbles and gravels | 0.23-0.48m |
| 2402 | Natural | Firm red clay marl with occasional fragmented orange brash | 0.48m + |
| 2403 | Tree hollow | | 0.48-0.56m |
| 2404 | Fill of tree hollow 2403 | | 0.48-0.56m |
| 2405 | Possible gully terminus | | 0.48-0.58m |
| 2406 | Fill of possible gully terminus 2405 | Firm mid reddish brown silty clay with occasional sub rounded pebbles and gravels | 0.48-0.58m |
| 2407 | Gully | | 0.48-0.52m |
| 2408 | Fill of gully 2407 | Firm mid reddish brown silty clay with occasional sub rounded pebbles and gravels. Occasional orangey brash fragments | 0.48-0.52m |
| 2409 | Cut of unexcavated linear/ possible furrow | Unexcavated | 0.48m + |
| 2410 | Fill of 2409 | Firm mid brownish red clay with frequent sub angular pebbles and gravels | 0.48m + |
| 2411 | Cut of unexcavated linear/ possible furrow | Unexcavated | 0.48m + |
| 2412 | Fill of 2411 | Firm mid brownish red silty clay with occasional sub angular stones and gravels | 0.48m + |
| 2413 | Cut of unexcavated linear terminus | Unexcavated | 0.48m + |
| 2414 | Fill of 2413 | Firm mid brownish red silty clay with frequent sub angular pebbles and gravels | 0.48m + |
| 2415 | Cut of unexcavated linear terminus | Unexcavated | 0.48m + |

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|--|--|---|
| 2416 | Fill of 2415 | Firm mid brownish red silty clay with occasional sub angular pebbles and gravels | 0.48m + |
| 2417 | Cut of unexcavated linear/ possible furrow | Unexcavated | 0.48m + |
| 2418 | Fill of 2417 | Firm mid brownish red silty clay with occasional sub angular pebbles and gravels | 0.48m + |
| 2419 | Cut of unexcavated linear/ possible furrow | Unexcavated | 0.48m + |
| 2420 | Fill of 2419 | Firm mid brownish red silty clay | 0.48m + |

Trench 25

Maximum dimensions: Length: 50m Width: 1.8m Depth: 1.03m

Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|-------------------------------|---|---|
| 2500 | Topsoil | Loose mid orangey brown clayey silt with rare sub rounded pebbles | 0.0-0.26m |
| 2501 | Subsoil | Compact mid brownish red silty clay with rare sub rounded pebbles | 0.26-0.4m |
| 2502 | Displaced superficial gravels | Moderately compact light reddish grey clayey silt with frequent sub rounded pebbles | 0.4-0.52m |
| 2503 | Displaced superficial gravels | Compact mid brownish red silty clay with frequent sub rounded pebbles | 0.52-0.67m |
| 2504 | Colluvium | Moderately compact mid reddish grey silty clay with rare sub rounded pebbles | 0.67-1.03m |
| 2505 | Natural | Firm mid brownish red clay marl | 1.03m + |

Trench 26

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.52m

Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 2600 | Topsoil | Loose dark orangey brown clayey silt | 0.0-0.25m |
| 2601 | Subsoil | Moderately compact mid orangey brown clayey silt | 0.25-0.43m |
| 2602 | Colluvium | Moderately compact mid greyish brown clayey silt | 0.43-0.52m |
| 2603 | Natural | Moderately compact mid yellowy orange silty clay | 0.52m + |

Trench 27

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.42m

Orientation: N-S

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 2700 | Topsoil | Loose dark brown clayey silt | 0.0-0.24m |
| 2701 | Subsoil | Moderately compact mid orangey brown clayey silt | 0.24-0.42m |
| 2702 | Natural | Compact mid brownish red silty clay with occasional bands of looser orangey, more pebbly brash | 0.42m + |

Trench 28

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.71m

Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 2800 | Topsoil | Loose mid orangey brown clayey silt with rare sub rounded pebbles | 0.0-0.18m |
| 2801 | Subsoil | Moderately compact mid brownish red silty clay with rare sub rounded pebbles | 0.18-0.48m |
| 2802 | Colluvium | Moderately compact mid blueish grey silty clay with frequent manganese and charcoal flecking | 0.48-0.71m |
| 2803 | Natural | Firm mid brownish red silty clay marl with occasional gravel and sun rounded stone patches | 0.71m + |

Trench 29

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.3m

Orientation: NE-SW

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|-----------------------|--|---|
| 2900 | Topsoil | Loose dark orangey brown clayey silt | 0.0-0.16m |
| 2901 | Subsoil/ interface | Moderately compact dark reddish brown silty clay | 0.16-0.3m |
| 2902 | Natural | Compact red clay marl | 0.3m + |

Trench 30

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.35m

Orientation: NE-SW

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--------------------------------------|---|
| 3000 | Topsoil | Loose dark orangey brown clayey silt | 0.0-0.35m |
| 3001 | Natural | Compact red clay marl | 0.35m + |

Trench 31

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.4m

Orientation: NE-SW

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 3100 | Topsoil | Loose and friable mid orangey brown clayey silt | 0.0-0.17m deep |
| 3101 | Subsoil | Moderately compact and friable mid reddish brown sandy clay silt with frequent gravels and sub rounded pebbles | 0.17-0.4m |
| 3102 | Natural | Firm pink and red sand and gravels to north and marl to southern end | 0.4m + |

Trench 32

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.87m

Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 3200 | Topsoil | Loose friable dark orangey brown clayey silt | 0.0-0.2m |
| 3201 | Subsoil | Moderately compact and friable mid reddish brown sandy clay silt with frequent gravel and sub rounded pebbles | 0.2-0.49m |
| 3202 | Colluvium | Loose mid yellowish brown fine sandy silt | 0.49-0.87m |

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 3203 | Natural | Friable pink and orange sands, red clay sand and gravel with clay marl patches | 0.87m + |

Trench 33

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.75m
 Orientation: NW-SE

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 3300 | Topsoil | Loose friable dark orangey brown clayey silt | 0.0-0.14m |
| 3301 | Subsoil | moderately compact and friable mid reddish brown sandy clay silt with frequent gravel and sub rounded pebbles | 0.14-0.34m |
| 3302 | Colluvium | Loose mid yellowish brown fine sandy silt | 0.34-0.75m |
| 3303 | Natural | Firm pink and red sand and gravel with clay marl patches | 0.75m + |

Trench 34

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.59m
 Orientation: NE-SW

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 3400 | Topsoil | Loose and soft mid orangey brown clayey silt | 0.0-0.2m |
| 3401 | Subsoil | Moderately compact mid reddish brown clayey silt | 0.2-0.48m |
| 3402 | Natural | Firm pink and red sand and gravels with red clay marl patches | 0.59m + |
| 3403 | Colluvium | Loose mid yellowish brown sandy silt | 0.48-0.59m deep |

Trench 35

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.55m
 Orientation: W-E

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 3500 | Topsoil | Moderately compact mid orangey brown sand silt clay | 0.0-0.24m |
| 3501 | Subsoil | Moderately compact mid reddish brown clayey silt | 0.24-0.5m |

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|---|---|
| 3502 | Natural | Firm pink and red sand and gravels with red clay marl patches | 0.55m + |
| 3503 | Colluvium | Loose mid yellowish brown sandy silt | 0.5-0.55m |

Trench 36

Maximum dimensions: Length: 50m Width: 1.8m Depth: 0.4 to 1.28m at sondage

Orientation: NE-SW

| Context | Classification | Description | Depth below ground surface (b.g.s) – top and bottom of deposits |
|---------|----------------|--|---|
| 3600 | Topsoil | Loose and soft mid orangey brown clayey silt | 0.0-0.14m deep |
| 3601 | Subsoil | Moderately compact mid reddish brown clayey silt | 0.14-0.4m deep |
| 3602 | Colluvium | Loose mid brownish red sandy clay silt | 0.4-0.76m at sondage |
| 3603 | Colluvium | Moderately compact mid brownish red sandy clay silt | 0.76-1.04m at sondage |
| 3604 | Colluvium | Moderately compact light whitish brown silty clay | 1.04-1.28m at sondage |
| 3605 | Natural | Firm pink and red sand and gravels with red clay marl patches | 1.28m + at sondage |
| 3606 | Treebole | | 0.4-0.49m |
| 3607 | Treebole | Loose mid orangey brown sandy silt with abundant sub rounded pebbles and cobbles, and frequent large charcoal fragments. | 0.4-0.49m |

APPENDIX 2

IMAGES



Plate 1: Trench 36 looking south-west (1m scales).



Plate 2: Colluvium in southern end of Trench 36, looking south-east (1m scale).



Plate 3: Trench 30, looking north-east (1m scales).



Plate 4: Colluvium in Trench 28, looking south-east (1m scale).



Plate 5: Boundary ditch 1804, looking west (1m scale).



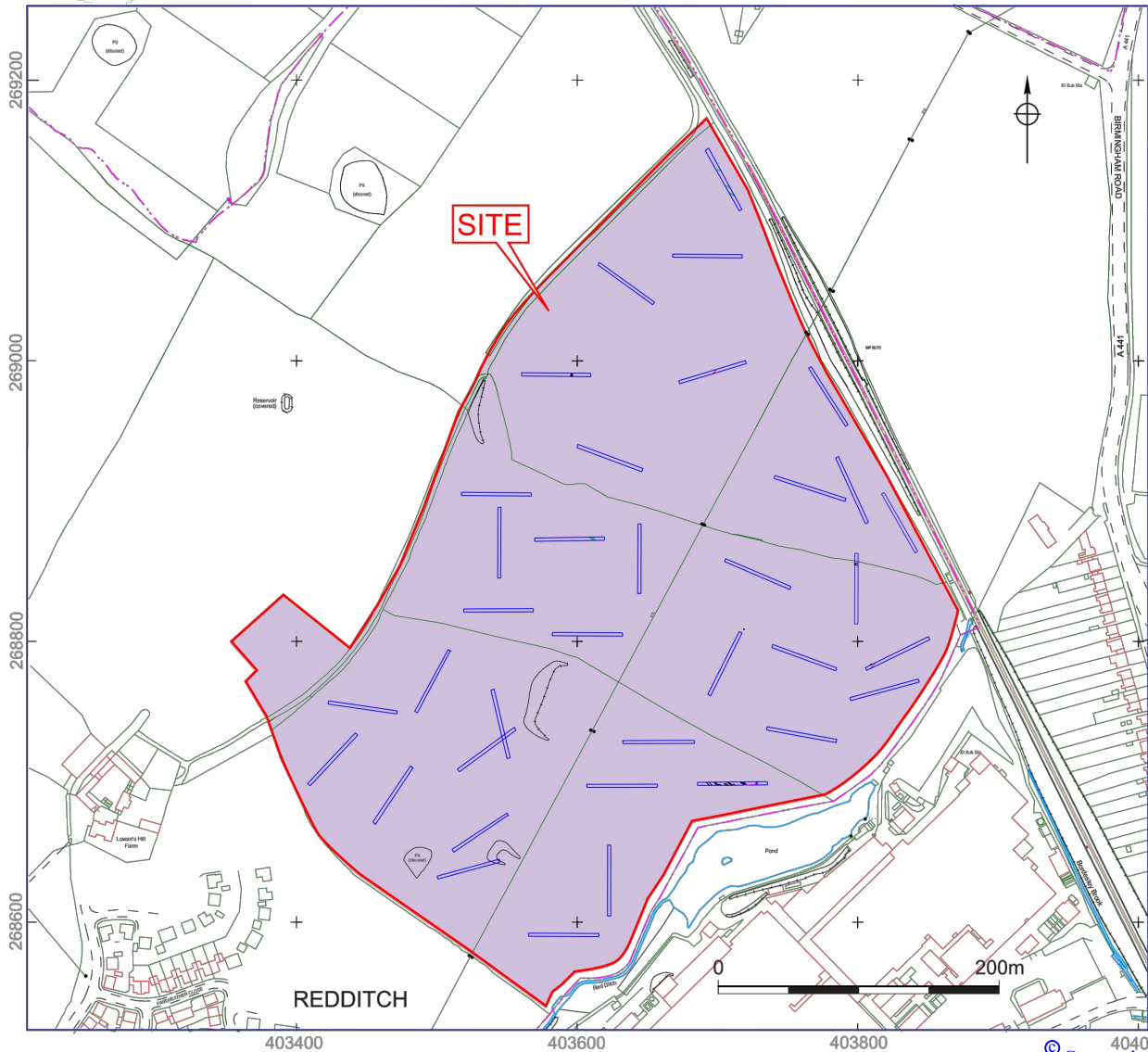
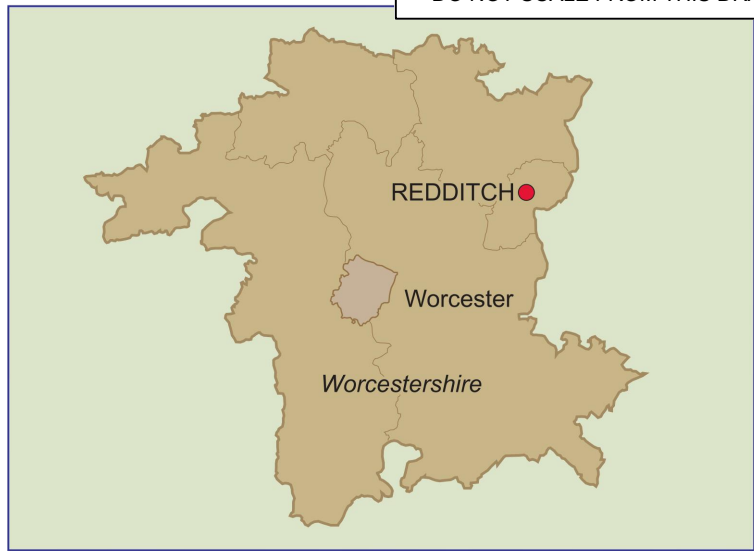
Plate 6: Bronze Age pit 404, looking north-west (0.5m scale).



Plate 7: Bronze Age pit 404, fully excavated, looking south-west (1m scale).

APPENDIX 3
FIGURES

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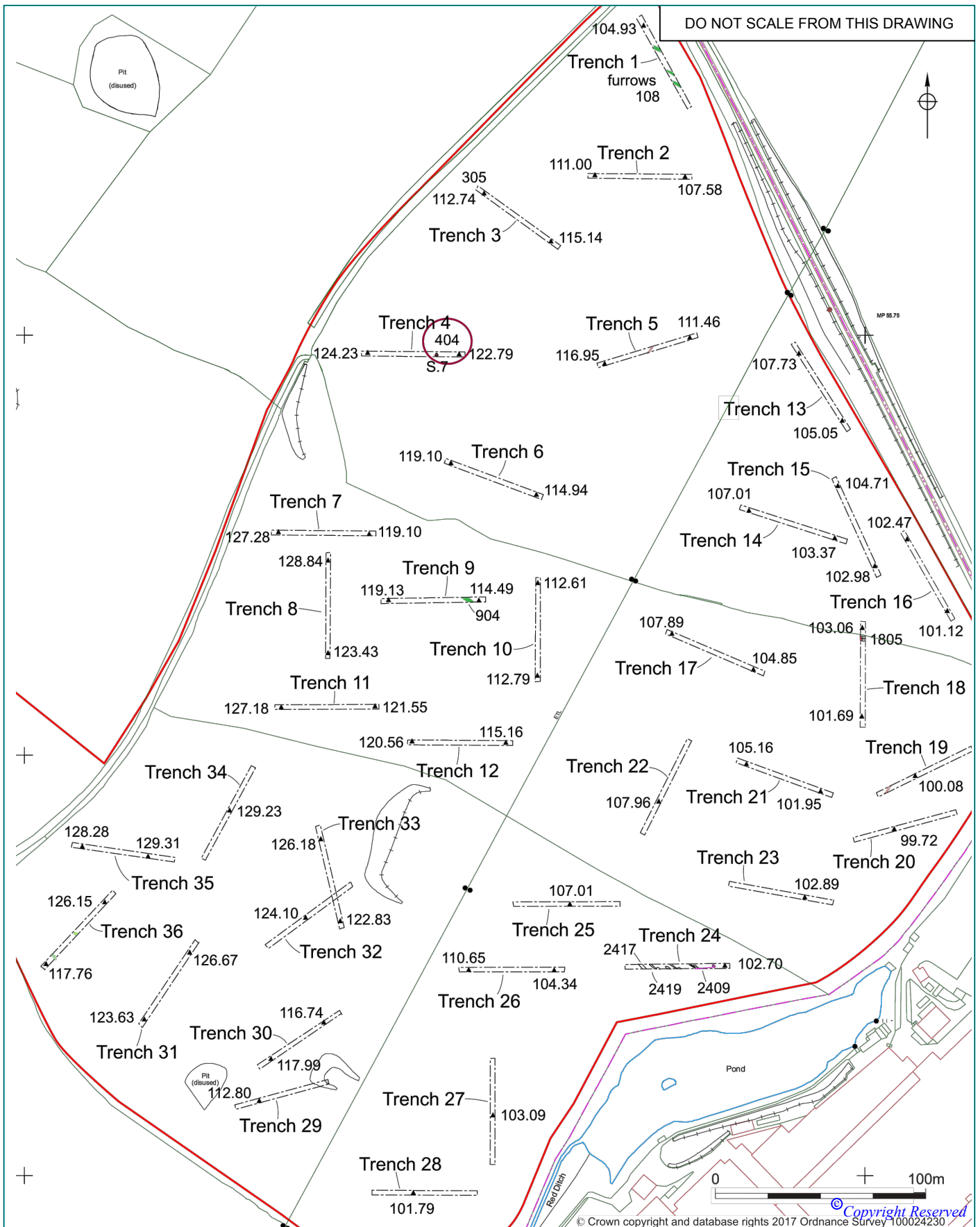


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| CLIENT | Persimmon Homes (South Midlands) Ltd. | | DRG No. | BM11358-003 | REV | 001 |
| | PROJECT | BTR Land, Brockhill East, Redditch, Worcestershire | | SIZE | A4 | SCALE |
| DRAWING TITLE | | Figure 1: Site Location. | | DRAWN BY | CH | CHECKED BY |
| | DATE | | | 22/05/2017 | APPROVED BY | ND |

PRELIMINARY



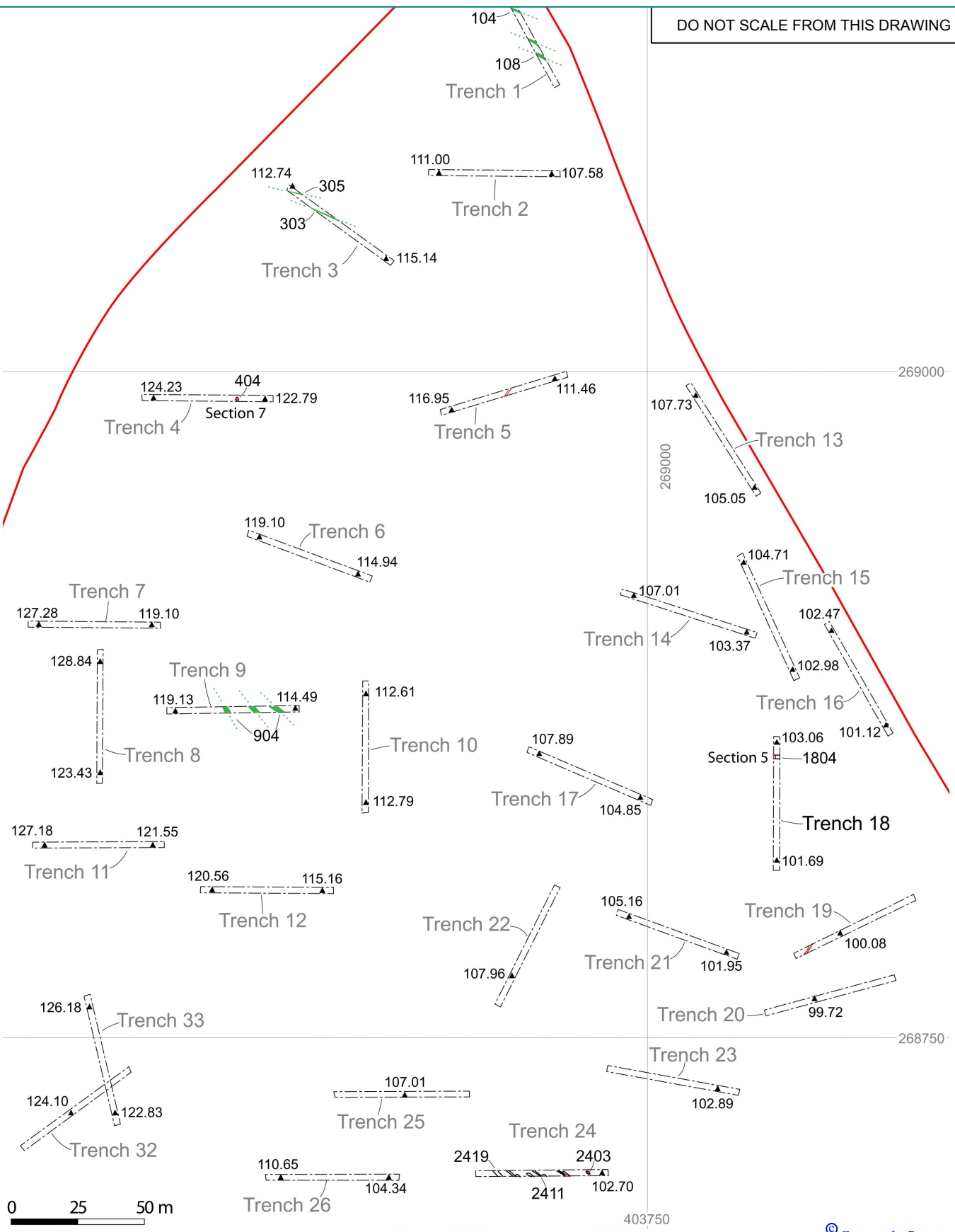
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| PROJECT | BTR Land, Brockhill East, Redditch, Worcestershire | | SIZE | A4 | SCALE | 1: 2,500 |
| DRAWING TITLE | Figure 2: Trench location plan. | | DRAWN BY | CH | CHECKED BY | JW |
| | | | | | DATE | 22/05/2017 |
| | | | | | APPROVED BY | ND |



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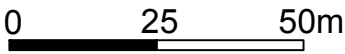
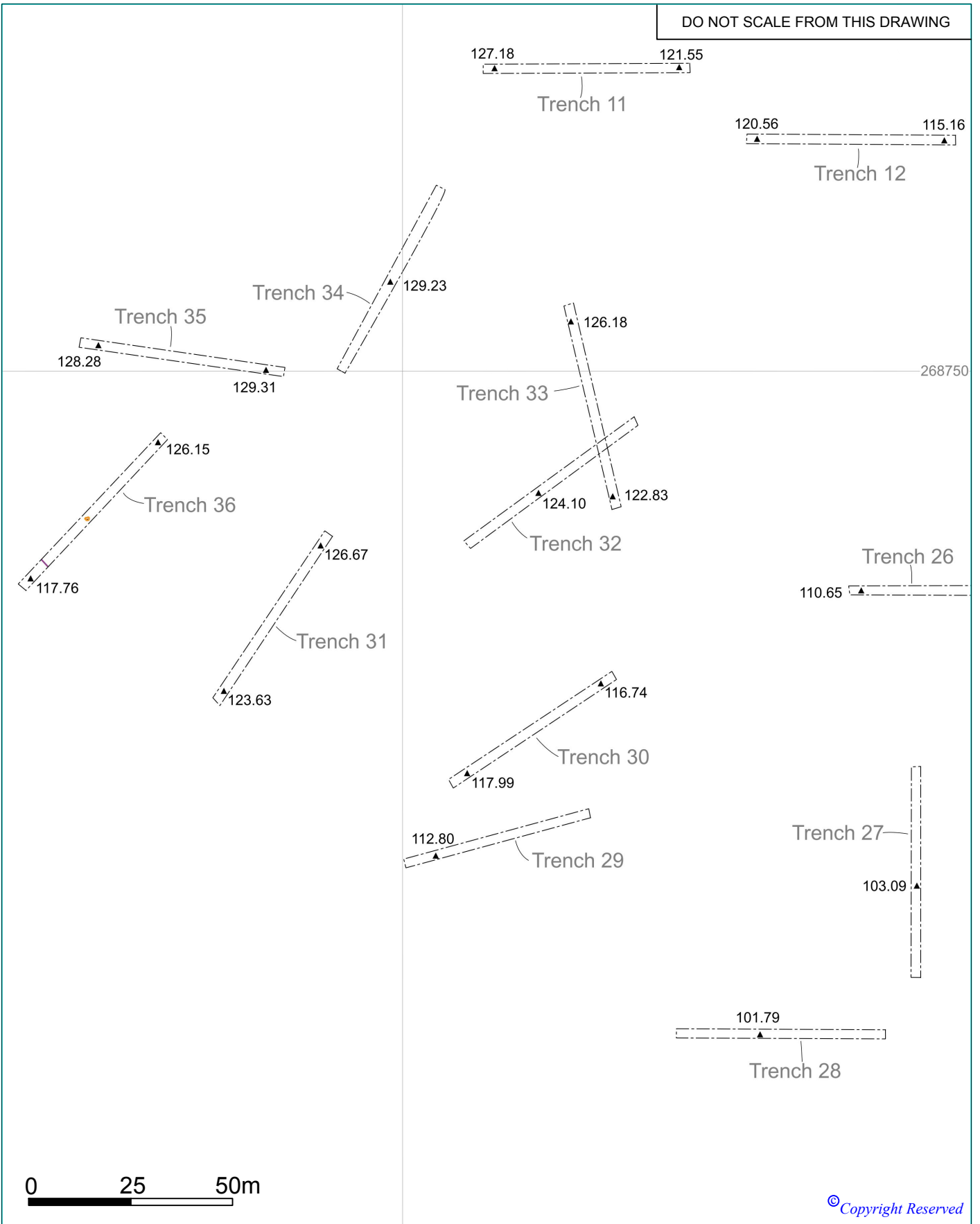


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| | PROJECT | BTR Land, Brockhill East, Redditch, Worcestershire | | SIZE | A4 | SCALE | 1: 2,000 |
| DRAWING TITLE | | Figure 3: Trench detail: Eastern area. | | DRAWN BY | CH | CHECKED BY | JW |
| | | | | | DATE | 22/05/2017 | APPROVED BY |



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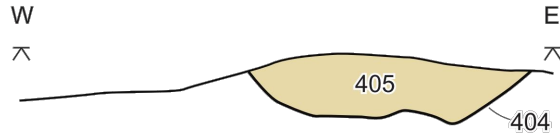
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| CLIENT | Persimmon Homes (South Midlands) Ltd. | | DRG No. | BM11358-006 | REV | 001 |
| PROJECT | BTR Land, Brockhill East, Redditch, Worcestershire | | SIZE | A4 | SCALE | 1: 1,250 |
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| | | | DRAWN BY | CH | CHECKED BY | JW |
| | | | APPROVED BY | ND | | |

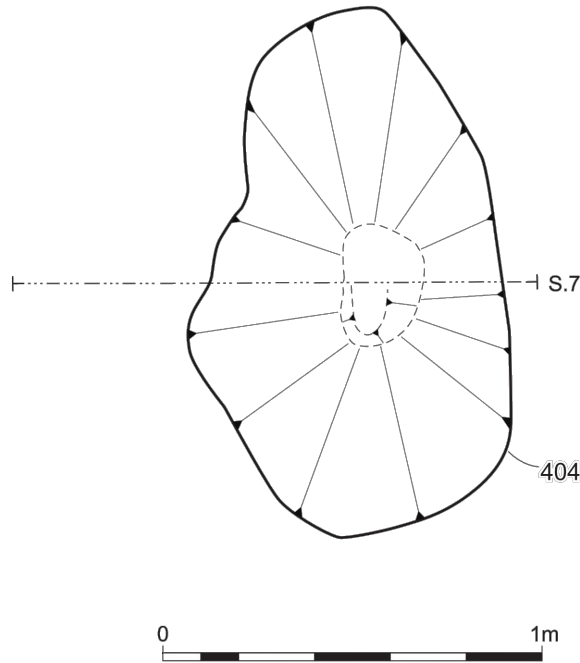
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Figure 4: Trench detail: South-western area.



SECTION 7: PIT 404



PLAN OF PIT 404



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| | | | |
|---|------------------------|------------------|--------------------|
| CLIENT Persimmon Homes (South Midlands) Ltd. | DRG No. BM11358-007 | | REV 001 |
| | SIZE A4 | SCALE 1: 20 | DATE 22/05/2017 |
| PROJECT BTR Land, Brockhill East, Redditch, Worcestershire | DRAWN BY CH | CHECKED BY JW | APPROVED BY ND |

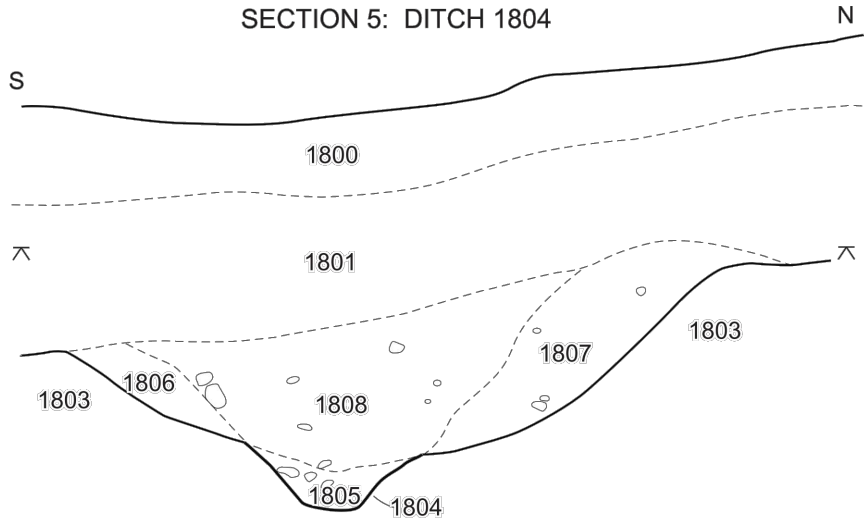
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Figure 5: Pit 404: Plan and section.



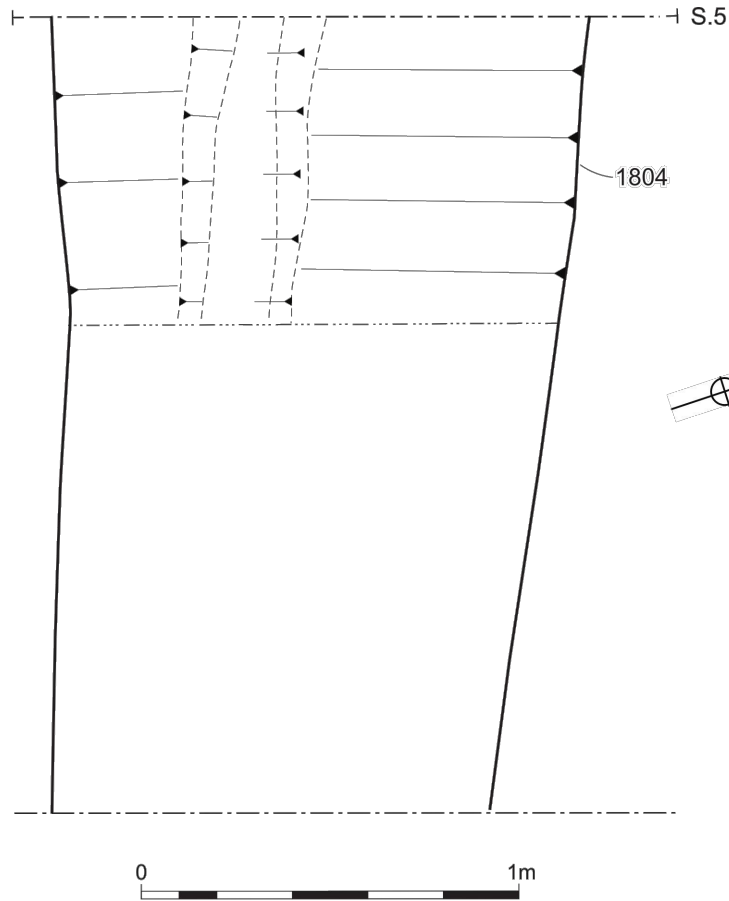
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SECTION 5: DITCH 1804



PLAN OF DITCH 1804



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| CLIENT Persimmon Homes (South Midlands) Ltd. | DRG No. BM11358-008 | | REV 001 |
| | SIZE A4 | SCALE 1: 20 | DATE 22/05/2017 |
| PROJECT BTR Land, Brockhill East, Redditch, Worcestershire | DRAWN BY CH | CHECKED BY JW | APPROVED BY ND |

DRAWING TITLE
Figure 6: Ditch 1804: Plan and section.



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