

**M42 Junction 6 Improvement
Scheme Number TR010027
Volume 6**

6.3 Environmental Statement
Appendix 7.1 WSI for Archaeological
Evaluation Trenching

Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

January 2019

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms
and Procedure) Regulations 2009**

**M42 Junction 6 Improvement
Development Consent Order 201[-]**

**6.3 Environmental Statement
Appendix 7.1 WSI for Archaeological Evaluation Trenching**

| | |
|---|--|
| Regulation Number | Regulation 5(2)(a) |
| Planning Inspectorate Scheme Reference | TR010027 |
| Application Document Reference | 6.3 |
| Author | M42 Junction 6 Improvement Project Team and Highways England |

| | | |
|----------------|--------------|--------------------------|
| Version | Date | Status of Version |
| 1 | January 2019 | DCO Application |

Written Scheme of Investigation for Archaeological Evaluation Trenching

M42 Junction 6 Improvement Scheme

Highways England

Project number: 60543032

22 June 2018

Prepared for:

Highways England

Prepared by:

David Kilner
Senior Archaeologist
T: 44 (0) 2895956319
E: david.kilner@aecom.com

AECOM Infrastructure & Environment UK Limited
Beechill House
40 Beechill Road
Belfast BT8 7RP
United Kingdom

T: +44(28)9070 5111
aecom.com

© 2018 AECOM Infrastructure & Environment UK Limited. All Rights Reserved.

This document has been prepared by AECOM Infrastructure & Environment UK Limited ("AECOM") for sole use of our client (the "Client") in accordance with generally accepted consultancy principles, the budget for fees and the terms of reference agreed between AECOM and the Client. Any information provided by third parties and referred to herein has not been checked or verified by AECOM, unless otherwise expressly stated in the document. No third party may rely upon this document without the prior and express written agreement of AECOM.

Table of Contents

| | | |
|-----|---|----|
| 1. | Introduction..... | 1 |
| 1.1 | Project Background | 1 |
| 1.2 | Site Location, Development Description and Geology..... | 1 |
| 2. | Archaeology & Historical Background | 1 |
| 2.1 | Existing and Baseline Knowledge | 2 |
| 2.2 | Archaeological Geophysical Survey | 2 |
| 2.3 | Ground Investigation Monitoring..... | 2 |
| 3. | Project Objectives | 3 |
| 3.1 | General Objectives..... | 3 |
| 4. | Scope of Work | 3 |
| 5. | Works Specification..... | 6 |
| 5.1 | General Works | 6 |
| 5.2 | Specific Works | 7 |
| 5.3 | Hand Excavation | 8 |
| 5.4 | Recording | 8 |
| 5.5 | Artefact Recovery..... | 9 |
| 5.6 | Environmental Sampling..... | 9 |
| 5.7 | Human Remains | 9 |
| 5.8 | Treasure Trove..... | 9 |
| 5.9 | Finds Processing..... | 9 |
| 6. | Monitoring, Progress Reports & Meetings | 10 |
| 7. | Completion of Fieldwork..... | 10 |
| 8. | Reporting..... | 10 |
| 9. | Resources and Timetable | 11 |
| 10. | Archive Preparation and Curation | 12 |
| 11. | Confidentiality and Publicity..... | 13 |
| 12. | Copyright..... | 13 |
| 13. | Access Arrangements and Site Information..... | 13 |
| 14. | Insurances and Health and Safety | 13 |
| 15. | General Provisions..... | 14 |
| 16. | Valid Period of Written Scheme of Investigation..... | 14 |
| | References | 15 |
| | Appendix A Standards and Guidance..... | 18 |

Tables

| | |
|--|---|
| Table 5.1 Archaeological Evaluation Trenches | 3 |
|--|---|

Figures

Figure 1 – Site Location Plan

Figure 2 – Evaluation Trench Locations

1. Introduction

1.1 Project Background

AECOM has been commissioned by Highways England (the Client) to undertake an Environmental Impact Assessment of proposed improvement works as part of the M42 Junction 6 Improvement Scheme (the proposed scheme).

This Written Scheme of Investigation (WSI) and accompanying figures set out the methodology for undertaking a programme of archaeological evaluation trenching, the purpose being to contribute to the understanding of the extent and nature of the archaeological resource that could be affected by the proposed scheme. The results of the evaluation trenching will also inform the design of a suitable archaeological mitigation strategy.

This WSI has been prepared by AECOM (the Consultant) on behalf of the Client in accordance with guidance provided by the Design Manual for Roads and Bridges (DMRB) Volume 10, Section 6, Part 1 (Highways Agency, 2001) and the Chartered Institute for Archaeologists (CIfA) Standard and Guidance for archaeological field evaluation (2014).

The WSI will be approved by the County Archaeologist for Warwickshire. The works specified in this WSI will then be let by competitive tender by the Consultant to an archaeological contractor (the Contractor).

1.2 Site Location, Development Description and Geology

M42 Junction 6 provides connections between the national motorway network and the A45 Coventry Road which provides strategic access to Birmingham to the west and Coventry to the east. The junction lies on the eastern edge of Birmingham, approximately 11km from the city centre, with its nearest town being Solihull.

The proposed scheme is located to the west of the existing M42 Junction in the area of green belt. The scheme limits, cover the A45 in an east-west direction from Clock Interchange (junction with the B4438) in the west to the A452 junction at Stonebridge Island to the east. In the north-south direction, the scheme limits are generally located at the midpoint between junctions 5-6 in the south and mid-point between Junctions 6-7 in the north.

The location of the proposed scheme is shown on Figure 1.

The objective of the proposed works is to:

- a. promote the safe and reliable operation of the road network;
- b. increase the capacity of the junction;
- c. improve access to key businesses; and
- d. support economic growth.

A detailed description of the proposed scheme is provided in Chapter 3 of the Environmental Statement (AECOM 2018). In summary, the proposed scheme comprises the construction of a new junction on the M42 and 2.4km of dual carriageway linking it to the existing Clock Interchange on the A45. The proposed works will also require some modifications to the existing road network and supporting structures such as site compounds, balancing ponds etc.

Geology

The bedrock geology of the site consists of Branscombe and Sidmouth formations of mudstone as well as Arden Sandstone Formation. The superficial geology consists of Glaciofluvial deposits (sand and gravel) and alluvium (clay, silt, sand and gravel), although these are patchy (<http://mapapps.bgs.ac.uk/geologyofbritain/home.html>).

2. Archaeology & Historical Background

A Scoping Report was produced by the Consultant in September 2017, the purpose being to identify the form and nature of the assessments to be undertaken as part of the EIA of the proposed scheme. The report accompanied a formal request for a Scoping Opinion made to the Planning Inspectorate, and contained details of the proposed scope of the Cultural Heritage assessment.

As part of the scoping exercise a study area of 500m from the proposed scheme boundary was identified, within which information on heritage assets was gathered to establish their type, distribution and importance.

2.1 Existing and Baseline Knowledge

There are three scheduled monuments within the 500m study area, including a moated site, at Moat House (1017243) and the Moated Site at Eastcote Hall (1017529), both of which are medieval in date. Moat House includes the buried earthwork and standing remains of the moated and walled manorial complex. The site at Eastcote Hall also consists of buried and earthwork remains and is smaller in size. A scheduled cross (1017815) is located within the churchyard of St Mary and St Bartholomew's Church and is principally medieval in date. This is also a Grade II listed building (1076764).

Two Conservation Areas are located within the 500m study area, these being Hampden-in-Arden and Bickenhill.

The 500m study area contains archaeological remains dating from the Mesolithic (10,000 – 3500 BC) through to the modern (1901 – present) period. Cropmarks of potential field boundaries, trackways and enclosures, as well as individual small finds such as a flint blades and a copper palstave axe, indicate activity in the area in the prehistoric periods. Evidence of Roman (AD 43 – AD 450) activity within the study area is limited to individual finds of mainly pottery. However, some of the cropmarks recorded in the area may potentially represent Romano-British activity. The early medieval (450 – 1066AD) period is associated with the woodland clearances and expansion of land cultivation activity. The medieval (1066 – 1500AD) period was one of great expansion for the area. A number of settlements were established, including Bickenhill and Hampton-in-Arden, and there is evidence for a further three Deserted Medieval Villages within the study area. Alongside these are three moated sites, including the two scheduled examples mentioned above. Throughout the medieval period and into the post-medieval (1500 – 1900) the area remained largely rural in nature, despite the rapid industrial growth of Birmingham during the 19th century. The most significant change to the area came in the modern period when Birmingham airport was opened in the early 20th century.

2.2 Archaeological Geophysical Survey

An archaeological geophysical survey was carried out along the line of the proposed scheme by Phase Site Investigations in April and May 2018.

Preliminary interpretation of the results of this survey suggests that there has been a great deal of modern disturbance from tipped material and made ground. There is also evidence for general rubble and ferrous debris mixed within the topsoil which makes identification of possible weaker anomalies more difficult.

The geophysical survey revealed evidence for linears and curvilinears in some areas. These have been interpreted as evidence of infilled features though none form any major patterns or relationships. These features may relate to modern activity such as services, drains or former field boundaries.

Agricultural responses suggest that the local soils have a relatively low magnetic susceptibility with the result that infilled features only produce weak or not measureable anomalies. The survey produced a lack of responses suggestive of archaeological activity though this could be due to the nature of the local conditions with more archaeological features than have been identified.

2.3 Ground Investigation Monitoring

Between 26th January and 8th May 2018, 31 ground investigation (GI) test pits were excavated under archaeological supervision. The test pits were between 3.0m and 5.0m long and 0.40m and 4.5m deep. Subsoil was present in 26 of the test pits and one was found to be in an area of thick made ground that was not breached during the excavation.

Of the 31 test pits, seven contained one or more modern land drains, six of which were less than 1.00m below the surface. A further three were found to contain made ground which was between 0.77m and 2.2m thick and was considered to relate to the construction of the M42.

No features of archaeological significance were identified.

3. Project Objectives

3.1 General Objectives

The evaluation trenching objectives are:

- to confirm the presence or absence of surviving archaeological remains within land required to construct, operate and maintain the proposed scheme;
- to determine the location, nature, date, condition, state of preservation, significance and complexity of any archaeological remains;
- to determine the likely range, quality and quantity of artefactual and environmental evidence present; and
- to inform the design of any detailed archaeological mitigation required.

4. Scope of Work

The evaluation trenching will cover the area as shown on Figure 2 and will comprise 101 trenches. These trenches will all measure 2m wide by 50m long. Details of the proposed trial trenching regime are outlined in Table 1 below.

Table 1. Archaeological Evaluation Trenching

Table 1 – Trench Locations

| Evaluation Trench Number | Trench Extents | | | |
|--------------------------------|----------------|------------|------------|------------|
| | Easting | Northing | Easting | Northing |
| 1 | 419226.164 | 282939.791 | 419178.745 | 282923.936 |
| 2 | 419141.417 | 282937.816 | 419157.272 | 282890.396 |
| 3 | 419123.749 | 282905.548 | 419076.329 | 282889.693 |
| 4 | 419106.065 | 282866.948 | 419121.920 | 282819.529 |
| 5 | 419143.393 | 282853.068 | 419190.812 | 282868.924 |
| 6 | 419175.984 | 282831.279 | 419191.839 | 282783.859 |
| 7 | 419154.511 | 282797.739 | 419107.092 | 282781.884 |
| 8 | 419140.632 | 282760.411 | 419156.486 | 282712.992 |
| 9 | 419119.159 | 282726.872 | 419071.739 | 282711.016 |
| 10 | 419074.379 | 282741.792 | 419075.879 | 282791.770 |
| 11 | 419056.298 | 282863.637 | 419009.011 | 282879.884 |
| 12 | 419027.029 | 282834.257 | 419042.883 | 282786.838 |
| 13 | 419035.002 | 282765.704 | 419050.857 | 282718.284 |
| 14 | 418958.276 | 282870.470 | 418974.130 | 282823.050 |
| 15 | 419005.556 | 282800.717 | 418958.136 | 282784.861 |
| 16 | 418970.510 | 282762.397 | 418986.364 | 282714.977 |
| 17 | 418936.803 | 282836.930 | 418889.383 | 282821.074 |
| 18 | 418920.809 | 282798.740 | 418936.664 | 282751.320 |
| 19 | 418928.965 | 282711.133 | 418888.045 | 282682.400 |
| 20 | 418852.056 | 282834.953 | 418867.911 | 282787.534 |
| 21 | 418899.336 | 282765.200 | 418851.917 | 282749.345 |
| 22 | 418880.707 | 282716.542 | 418830.746 | 282718.524 |
| 23 | 418942.034 | 282652.000 | 418892.174 | 282648.267 |
| 24 | 418830.583 | 282801.414 | 418783.164 | 282785.558 |
| 25 | 418768.171 | 282750.282 | 418718.211 | 282752.263 |
| 26 | 418688.928 | 282751.169 | 418686.947 | 282701.208 |
| 27 | 418734.165 | 282728.871 | 418732.184 | 282678.911 |
| 28 | 418710.699 | 282669.241 | 418660.738 | 282671.223 |
| 29 | 418689.971 | 282794.693 | 418646.307 | 282819.054 |
| 30 | 418607.254 | 282808.252 | 418626.999 | 282762.316 |

Table 1 – Trench Locations

| Evaluation Trench Number | Trench Extents | | | |
|--------------------------------|----------------|------------|------------|------------|
| | Easting | Northing | Easting | Northing |
| 31 | 418590.705 | 282760.326 | 418589.786 | 282710.334 |
| 32 | 418701.423 | 282638.410 | 418699.442 | 282588.449 |
| 33 | 418666.211 | 282596.555 | 418643.485 | 282641.092 |
| 34 | 418656.300 | 282559.311 | 418706.261 | 282557.329 |
| 35 | 418626.315 | 282585.519 | 418624.334 | 282535.558 |
| 36 | 418598.126 | 282505.573 | 418648.086 | 282503.592 |
| 37 | 418594.104 | 282420.219 | 418598.152 | 282370.383 |
| 38 | 418545.836 | 282459.447 | 418547.361 | 282409.471 |
| 39 | 418529.908 | 282397.881 | 418531.433 | 282347.904 |
| 40 | 418558.099 | 282304.256 | 418508.122 | 282302.731 |
| 41 | 418474.754 | 282319.938 | 418449.380 | 282276.855 |
| 42 | 418534.056 | 282272.508 | 418535.581 | 282222.531 |
| 43 | 418503.833 | 282246.574 | 418453.856 | 282245.049 |
| 44 | 418561.516 | 282192.308 | 418511.539 | 282190.783 |
| 45 | 418479.790 | 282214.826 | 418481.315 | 282164.849 |
| 46 | 418449.567 | 282188.892 | 418399.591 | 282187.367 |
| 47 | 418512.687 | 282147.422 | 418557.280 | 282124.808 |
| 48 | 418520.963 | 282108.467 | 418498.348 | 282063.873 |
| 49 | 418471.212 | 282106.964 | 418426.619 | 282129.578 |
| 50 | 418517.618 | 282050.599 | 418525.733 | 282001.262 |
| 51 | 418471.709 | 282038.760 | 418448.045 | 282082.806 |
| 52 | 418411.014 | 282091.746 | 418400.807 | 282042.799 |
| 53 | 418393.153 | 282007.015 | 418437.747 | 281984.401 |
| 54 | 418423.343 | 281967.915 | 418390.349 | 281930.346 |
| 55 | 418401.353 | 281902.636 | 418436.564 | 281867.136 |
| 56 | 418405.379 | 281867.323 | 418370.193 | 281831.798 |
| 57 | 418460.270 | 281861.451 | 418427.485 | 281823.700 |
| 58 | 418435.820 | 281728.239 | 418451.627 | 281680.804 |
| 59 | 418415.502 | 281645.170 | 418461.050 | 281624.544 |
| 60 | 418533.625 | 281651.274 | 418573.955 | 281621.719 |
| 61 | 418515.891 | 281535.883 | 418510.653 | 281486.158 |
| 62 | 418549.334 | 281559.166 | 418544.096 | 281509.442 |
| 63 | 418485.026 | 281461.392 | 418535.008 | 281462.712 |
| 64 | 418489.041 | 281414.696 | 418484.491 | 281364.904 |
| 65 | 418472.928 | 281335.633 | 418522.768 | 281331.640 |
| 66 | 418477.318 | 281301.153 | 418473.142 | 281251.328 |
| 67 | 418472.451 | 281215.614 | 418471.236 | 281165.628 |
| 68 | 418475.560 | 281149.278 | 418519.440 | 281125.308 |
| 69 | 418454.969 | 281130.335 | 418481.823 | 281088.159 |

Table 1 – Trench Locations

| Evaluation Trench Number | Trench Extents | | | |
|--------------------------------|----------------|------------|------------|------------|
| | Easting | Northing | Easting | Northing |
| 70 | 418442.247 | 281092.597 | 418400.070 | 281065.743 |
| 71 | 418561.312 | 281098.310 | 418606.294 | 281076.479 |
| 72 | 418564.222 | 281071.323 | 418609.204 | 281049.491 |
| 73 | 418581.572 | 281470.879 | 418537.946 | 281446.452 |
| 74 | 418567.284 | 281445.163 | 418591.711 | 281401.536 |
| 75 | 418628.670 | 281386.702 | 418585.043 | 281362.274 |
| 76 | 418622.002 | 281347.439 | 418646.429 | 281303.813 |
| 77 | 418677.034 | 281284.554 | 418672.198 | 281234.788 |
| 78 | 418750.947 | 281225.490 | 418707.321 | 281201.062 |
| 79 | 418729.291 | 281176.767 | 418777.868 | 281164.927 |
| 80 | 418719.007 | 281156.047 | 418697.175 | 281111.065 |
| 81 | 418663.530 | 281094.488 | 418708.512 | 281072.657 |
| 82 | 418774.002 | 281086.304 | 418813.316 | 281117.197 |
| 83 | 418836.382 | 281073.083 | 418834.210 | 281023.130 |
| 84 | 418883.528 | 281027.305 | 418844.214 | 280996.412 |
| 85 | 418901.149 | 280965.402 | 418932.043 | 280926.088 |
| 86 | 418926.287 | 280989.491 | 418967.602 | 280961.330 |
| 87 | 419000.415 | 280908.877 | 418970.731 | 280868.642 |
| 88 | 419027.041 | 280927.843 | 419073.222 | 280908.678 |
| 89 | 419015.062 | 280886.322 | 419064.565 | 280879.291 |
| 90 | 419002.875 | 280847.054 | 419033.768 | 280807.740 |
| 91 | 418996.525 | 280773.235 | 419027.418 | 280733.921 |
| 92 | 419028.106 | 280767.522 | 419067.420 | 280798.415 |
| 93 | 419085.690 | 280818.479 | 419116.583 | 280779.165 |
| 94 | 419090.450 | 280723.798 | 419043.593 | 280706.350 |
| 95 | 419155.404 | 280681.058 | 419203.543 | 280667.543 |
| 96 | 419187.853 | 280704.146 | 419201.368 | 280752.285 |
| 97 | 419185.677 | 280788.889 | 419233.816 | 280775.374 |
| 98 | 419270.420 | 280791.064 | 419256.905 | 280742.925 |
| 99 | 419284.293 | 280877.050 | 419270.778 | 280828.911 |
| 100 | 419213.363 | 280821.502 | 419226.878 | 280869.641 |
| 101 | 419247.612 | 280882.443 | 419281.342 | 280919.351 |

5. Works Specification

5.1 General Works

All archaeological works will be carried out in accordance with this WSI, and any further instructions provided by the Consultant. This WSI takes account of assessment guidance in Standard and Guidance for Archaeological

Field Evaluation prepared by the Chartered Institute for Archaeologists (CIfA 2014); the CIfA Code of Conduct (CIfA 2014b) and other current and relevant best practice and standards and guidance (refer to Appendix 1).

The Contractor shall prepare and submit a Risk Assessment and Archaeological Method Statement for the works prior to the commencement of the fieldwork. The draft Archaeological Method Statement will be submitted to the Client and the Consultant for their review and approval.

The Consultant will provide the Contractor with AutoCAD Ordnance Survey mapping for the works area, and the proposed scheme layout.

To ensure the successful completion of the archaeological trial trench evaluation, the Contractor shall:

- provide an Archaeological Method Statement inclusive of risk assessment and safe method of working;
- provide suitably qualified and competent staff who have valid Construction Skills Certification Scheme (CSCS) cards;
- provide a mechanical excavator suitable to cleanly excavate the trial trenches. The machine will need to be fitted with a toothless ditching bucket to reduce each trench under the archaeological supervision of the contractor;
- provide appropriate safety fencing and edge protection for each trench;
- provide and monitor/maintain safe access into the trial trenches. No staff are to enter the trenches if it is declared unsafe by any competent person or the archaeological site supervisor;
- provide a suitably qualified archaeologist, experienced in archaeological investigation, recording and the nature of archaeological deposits which are expected on this site;
- work with the Client and the Consultant to safely complete the archaeological site works;
- provide all hand tools and recording materials required to complete the archaeological evaluation; and
- ensure that during the archaeological trial trench evaluation the extent of any surviving archaeological deposits are mapped, and that any surviving archaeological remains are hand cleaned, defined and sample excavated, sufficient to determine type, plan form and relationships and that these are recorded.

5.2 Specific Works

Evaluation trenches will be excavated at the locations indicated by the Consultant and shown on Figure 2.

The trenches will be positioned using metric-survey equipment to an accuracy of $\pm 100\text{mm}$ of the specified trench location. Each trench will be opened under direct archaeological supervision using an appropriate mechanical excavator fitted with a toothless ditching bucket. The arisings from the archaeological works will be stored adjacent to each trench (within a safe working distance) and will be separated according to material (i.e. topsoil from subsoil).

Due to the proximity of the airport to the north, all arisings will be covered by appropriate sheeting (eg tarpaulin) during storage. This is to discourage birds from being attracted to the area.

All trenches are to be the stated dimensions at their base as indicated in Table 1.

If important concentrations of artefacts suggestive of significant activity are uncovered during machining, these should be left in situ in the first instance and investigated using hand tools only. Where required, the machined surface will be cleaned by hand to allow acceptable definition of the archaeological remains. Following cleaning, all archaeological remains will be planned, to enable the selection of features and deposits for sample excavation by the Contractor.

The Contractor shall ensure that the archaeological investigations are undertaken in an organised, efficient and professional manner.

The Contractor shall have full regard for the safety of all personnel on site, including measures to ensure the safety of all, including any effects the archaeological works may have on the daily operations of the Client.

The Contractor will undertake any necessary health and safety training and/or inductions.

The on-site archaeological recording and recovery techniques will be in line with current industry best practice and should be fully understood by all.

5.3 Hand Excavation

Any archaeological deposits/features identified will be cleaned and hand excavated in an archaeologically controlled and stratigraphic manner, sufficient to meet the aims and objectives of the investigation.

Archaeological remains will be investigated and recorded. Hand excavation will initially be targeted to provide information on the form, function and date of the feature. Stratigraphic relationships between features will be investigated and recorded. Sampling strategies for specific feature types are as follows.

- Linear features: A minimum sample in length not less than 1m long, where the depositional sequence is consistent along the length. Linear features with complex variations of fill type will be sampled sufficiently in order to understand the sequence of deposition - a minimum of 20% along the length.
- Where possible one section will be located and recorded adjacent to a trench edge. If appropriate all intersections will be investigated to determine the relationships between features. All *termini* will be investigated.
- Discrete features: Pits, post-holes and other isolated features will normally be half-sectioned. A minimum requirement to meet the project objectives will be agreed in consultation with the Consultant. If large pits or deposits (over 1.5m diameter) are encountered then the sample excavated should be sufficient to define the extent and maximum depth of the feature and to achieve the objectives of the evaluation, but should not be less than 25%.
- Structures: Each structure will be sampled sufficiently to define the extent, form, stratigraphic complexity and depth of the component features and its associated deposits to achieve the objectives of the evaluation. All intersections will be investigated to determine the relationship(s) between the component features. The remains of all upstanding walls will be hand cleaned sufficient to understand their dimensions, extent, composition, sequence and relationships.

The extent of the evaluation trenches will be recorded on a suitable base map, even if they reveal no archaeological remains. The depth of excavation will also be recorded, where appropriate. The stratigraphy of any evaluation trench is to be recorded, even where no archaeological deposits have been identified. All trenches will be planned at 1:50. One representative long section of each trench will be produced, at an appropriate scale.

A full written, drawn and photographic record will be made of all archaeological remains. Hand drawn plans and sections of features will be produced at an appropriate scale (normally 1:20 for plans and 1:10 for sections). Drawings will include spot heights relative to Ordnance Datum in metres, correct to two decimal places.

5.4 Recording

Following machine excavation, the excavation area will be accurately recorded using metric survey-grade equipment or its equivalent, (Historic England, 2015a) and fixed in relation to any existing survey markers. The data will be overlaid at an appropriate and recognisable scale onto the Ordnance Survey National Grid (using digital map data).

All archaeological remains will be recorded in plan using electronic survey equipment. The resultant digital dataset will be utilised to compare the position of the identified archaeological remains with any relevant previous geophysical data.

A full written, drawn and photographic record will be made of each trench and any identified archaeological remains in accordance with standard archaeological methodologies (see Appendix 1).

Detailed hand-drawn plans and sections of features will be produced at an appropriate scale (normally 1:50 or 1:20 for plans, and 1:10 for sections). All plans, sections and drawn elevations will include spot heights relative to Ordnance Datum in metres, correct to two decimal places. Photography (digital, colour transparency and monochrome negative photographs) will be taken using a minimum format of 35mm or 10 megapixels resolution. The primary, archive record will be formed of the monochrome negative images. In addition to records of archaeological features, a number of general site photographs will also be taken to give an overview of the site. Particular attention should be paid to obtaining shots suitable for displays, exhibitions and other publicity.

5.5 Artefact Recovery

All artefacts will be collected, stored and processed in accordance with standard methodologies and national guidelines (refer to Appendix 1). Except for modern artefacts all finds will be collected and retained; the Contractor will clarify in their Archaeological Method Statement the Collection Policy. The Archaeological Method Statement will provide an indicative artefact collection policy. Each 'significant find' will be recorded three dimensionally. Similarly, if artefact scatters are encountered, these should be also recorded three dimensionally. Bulk finds will be collected and recorded by context.

All recovered artefacts will be stabilised, conserved and stored by a qualified conservator in accordance with current national conservation guidelines and standards (see Appendix 1). If necessary, a conservator will visit the site to undertake 'first aid' conservation treatment.

Artefacts will be stored in appropriate materials and conditions, and monitored to minimise further deterioration.

5.6 Environmental Sampling

The Archaeological Method Statement will outline an appropriate environmental sampling strategy that conforms to this specification. If important archaeological remains are encountered then the Historic England Regional Science Advisor (RSA) will be notified and will be consulted regarding the sampling strategy proposed by the Contractor. In addition, the Contractor's Environmental Specialist will visit the site to ensure that the agreed sampling strategy is appropriately implemented and to offer specialist advice whenever required. Appropriate provision will also be made for the recovery of material suitable for scientific dating.

Any samples taken must come from appropriately cleaned surfaces, and will be collected with clean tools and will be placed in clean containers. They will be adequately recorded and labelled and a register of all samples will be kept. Once the samples have been obtained, they will be stored appropriately in a secure location prior to being sent to the appropriate specialist.

5.7 Human Remains

Should human remains be discovered during the course of the excavations, the remains will be covered and protected and left in situ in the first instance, in accordance with current best practice (See Appendix 1). The removal of human remains will only take place in accordance with a licence from the Ministry of Justice and under the appropriate Environmental Health regulations and the Burial Act 1857. In the event of the discovery of human remains, the Contractor will notify the Consultant immediately, who will contact the County Archaeologist for Warwickshire to establish whether it is necessary to contact the office of H.M. Coroner.

5.8 Treasure Trove

Any recovered artefacts that fall within the scope of the Treasure Act 1996 and the Treasure (Designation) Order 2002 will be reported to the Consultant, Historic England and to H.M. Coroner immediately. The Contractor will ensure that the Treasure Act is enforced and that all the relevant parties are kept informed. In addition, the Contractor shall maintain a list of finds that have been collected that fall under the Treasure Act 1996 and related legislation, and this list shall be included in the Fieldwork Report.

Artefacts that are classified as 'treasure' will be removed to a safe place. Where removal cannot be undertaken on the same working day as the discovery, suitable security measures must be taken to protect the finds from damage or unauthorised removal.

5.9 Finds Processing

The finds assemblage will be treated, labelled and stored in accordance with the with the appropriate Historic England guidance documents and the Institute of Conservation guidelines (see Appendix 1). At all times the Contractor shall ensure that the processing of the assemblage is in accordance with the requirements of the recipient repository.

If appropriate, each category of find or each material type will be examined by a suitably qualified archaeologist or specialist and the results incorporated into the report.

Any pottery reports produced will refer to the appropriate type series, including the Warwickshire type series for Roman, medieval and post-medieval pottery.

6. Monitoring, Progress Reports & Meetings

The fieldwork will be subject to monitoring visits by the Consultant, who will have unrestricted access to the sites, site records or any other information. The work will be inspected to ensure that it is being carried out to the required standards and that it will achieve the stated aims and objectives.

Weekly written progress reports will be provided to the Consultant by the Contractor during each phase of fieldwork, to be issued via e-mail each Monday to be received no later than 09.30 hrs. In addition, the Contractor will inform the Consultant on the progress of the fieldwork verbally upon request.

Progress meetings between the Consultant and the Contractor will be held on site during the course of the fieldwork. The County Archaeologist for Warwickshire and, if appropriate, the Historic England Regional Science Advisor shall be invited to attend. These meetings will be arranged by the Consultant; monitoring meetings will also be held during the post-excavation phase of the project if appropriate.

The Contractor will only accept instruction from the Consultant.

7. Completion of Fieldwork

Evaluation trenches shall not be reinstated without the prior approval of the Consultant in consultation with the Client. In exceptional circumstances, such as for health and safety purposes or ground stability reasons, some backfilling would be permitted. The trenches shall only be backfilled by machine under appropriate conditions and with direct archaeological supervision. Arisings will be returned strictly in the correct sequence and will not be compacted.

The Contractor shall prepare and submit a Completion Statement to the Consultant within one working day of completing the fieldwork.

The site will be left in a tidy and workman-like condition and the Contractor will ensure that all materials brought onto site are removed.

As a minimum, an Online Access to the Index of archaeological investigations (OASIS) entry shall be completed at the end of the fieldwork, irrespective of whether a formal report is required (<http://ads.ahds.ac.uk/project/oasis/>). If appropriate, the entry should include caveats regarding any conclusions drawn in advance of analysis. The OASIS entry may be updated and re-submitted not later than three months after the completion of a report. The Contractor is advised to ensure that adequate time and costings are built into their tenders to complete the form to a satisfactory standard.

8. Reporting

An interim statement will be prepared and submitted to the Consultant within **two weeks** of the completion of the works. This is for the Consultant's information only. The interim statement will include:

- a summary of the results;
- a draft or sketch plan of each archaeological area or site; and
- a quantification of the primary archive including finds and samples.

The finds and samples will be processed (cleaned and marked) as appropriate. Each category of find or environmental/ industrial material will be examined by a suitably qualified archaeologist or specialist and the results incorporated into the Fieldwork Report. The archive will be quantified, ordered, indexed and internally consistent. Provisional site matrices and a short summary of the findings (including the artefactual and environmental data) will be prepared. Reporting will be undertaken within **four weeks** following the completion of the fieldwork.

The preparation of the site archive will be undertaken in accordance with this WSI and will follow relevant archaeological standards and national policy and guidance.

The precise format of the fieldwork report is dependent upon the findings of the investigations, but it will include:

- a Quality Assurance sheet detailing as a minimum the report title, author, version, date, 'checked by' and 'approved by';
- a non-technical summary;
- site location details;
- a brief archaeological, historical and project background;
- a description of the methodology followed;
- aims and objectives;
- results of the evaluation trenching (to include full descriptions, assessment of condition, quality and significance of the remains);
- an appendix containing specialist reports;
- a list of all finds that fall within the scope of the Treasure Act 1996 and associated legislation;
- an appendix containing plates illustrating specific finds, working shots and portraits of specific features or structures or important remains;
- a stratigraphic matrix (if appropriate);
- an assessment section and, if appropriate a statement of potential with recommendations for further work and analysis;
- statements regarding the immediate and long-term storage and curation;
- statements of the significance of the results in their local, regional and national context;
- publication proposals (if warranted);
- general and detailed plans showing the location of the investigation areas accurately positioned in relation to the Ordnance Survey basemap with grid co-ordinates and a plan of the identified archaeological remains (to a known scale);
- detailed plans and sections illustrating archaeological features and / relationships between features (at an appropriate and recognised scale); and
- a cross-referenced index of the project archive.

The Fieldwork Report will specifically comment on the level of preservation and will comment on the character of the overlying deposits and on the potential for extrapolating the results into adjacent areas. Two bound hard copies and a digital PDF copy (complete with illustrations and plates) of the completed report will be submitted to the Consultant as a draft for comment.

The Consultant will submit a copy of the draft Fieldwork Report to the County Archaeologist for Warwickshire for comment and if appropriate Historic England. In finalising the Fieldwork Report, the comments of the Consultant and County Archaeologist for Warwickshire will be taken into account. Three bound copies (together with one unbound master-copy and digital versions in both Word and PDF format) of the final Fieldwork Report will be submitted to the Consultant within two weeks of the receipt of comments on the draft.

Three bound copies of all reports will be submitted to County Archaeologist for Warwickshire for information and for inclusion on the County Historic Environment Records. A project archive shall be submitted containing image files in JPEG or TIFF format, digital text files shall be submitted in Microsoft Word format, and illustrations in AutoCAD format or ArcView shapefile format. A fully collated PDF version of the Fieldwork Report shall be included.

A summary account of the work will be submitted to the editor of West Midland Archaeology and any relevant period journals (e.g. Medieval Archaeology, Proceedings of the Prehistoric Society) no later than March 31st of the year following completion of fieldwork.

9. Resources and Timetable

The Contractor must ensure that they have adequate and appropriate management procedures in place to ensure that risks to programme timetable (more extensive remains, better preserved deposits, exceptional finds and interruptions from periods of prolonged inclement weather or restrictions caused by animal disease) can be

identified at an early stage. These risks will be kept under constant review by the Contractor to ensure that the aims and objectives are met within the agreed time-scales and budget. The Consultant will be notified at the earliest opportunity of any changes to the methodology or programme of work that arise from these reviews. Changes / variations to the programme will only be accepted after they have been agreed in writing with the Consultant. The Contractor will give immediate warning to the Consultant should any agreed programme date not be achievable.

An experienced archaeologist familiar with monitoring heavy plant during archaeological work shall be deployed with each mechanical excavator. During archaeological excavation and recording, additional manpower resources may be deployed to deal with archaeological remains, but only with the agreement of AECOM and after the archaeological strategy has been agreed with the Consultant and approved by the County Archaeologist for Warwickshire.

All archaeological personnel involved in the project should be suitably qualified and experienced professionals and hold valid CSCS cards. The Contractor will provide the Consultant with staff CVs of the Project Manager, Site Supervisors and specialists that might be involved in the post-excavation work. Site assistants' CVs will not be required, but all site assistants should have an appropriate understanding of archaeological excavation procedures.

All staff will be fully briefed and aware of the work required under this specification and will understand the aims and objectives of the archaeological investigations and the methodologies to be employed.

The fieldwork is programmed to be implemented as soon as possible (subject to land access agreements and the Consultants approval of the health and safety plan) and will be completed within a timescale that will be agreed in writing between the Contractor and the Consultant. The Consultant will inform the Contractor of the start date for the works and the Contractor will provide the Consultant with a programme for the works (fieldwork and reporting) within one week of the start date.

The Consultant will notify Warwickshire Council Archaeology of the commencement of the fieldwork at least one week prior to the start of the investigations.

10. Archive Preparation and Curation

The Contractor will, prior to the start of fieldwork, liaise with an appropriate storage facility to obtain agreement-in-principle to accept the documentary, digital and photographic archive for long-term storage. The Contractor will be responsible for identifying at the initial project set-up stage any specific requirements or policies of the recipient repository in respect of the archive (for example, the discard policy for finds), and for adhering to those requirements. The Contractor shall immediately inform the Consultant of the policies adopted, who shall in turn inform County Archaeologist for Warwickshire.

Any charges levied by the repository for the long-term storage of the archive will be met by the Contractor.

The site records and assemblages (list of fieldwork interventions, notebooks/ diaries, context records, feature records, structure records, site geometry (drawings), photographs and films, finds records and associated data files) will constitute the primary Site Archive. This is the key archive of the fieldwork project and the raw data upon which all subsequent assessment and analysis and future interpretation will be based. The archive will therefore not be altered or compromised. It will remain the original record of the fieldwork. The site archive will be kept secure at all times and should be quantified, ordered, indexed and made internally consistent in line with current good practice (Brown 2011, Historic England 2015b). All finds and coarse sieved and flotation samples will have been processed and stored under appropriate conditions. The archive will also contain a site matrix, a summary of key findings, and descriptions of artefactual and environmental assemblages. Arrangements should be made for the proper cataloguing and storage of the archive during the project life-cycle (it may be appropriate to liaise with an archive specialist).

The archive of finds and records generated during the fieldwork will be removed from site at the end of each day and kept secure at all stages of the project until it is deposited in the agreed repository. The archive will be produced to current national standards (refer to Appendix 1).

The deposition of the archive forms the final stage for each phase of development at the application site. The Contractor shall provide the Consultant with copies of communication with the accredited repository and written confirmation of the deposition of the archive. The Consultant will deal with the transfer of ownership and copyright

issues and will inform the County Archaeologist for Warwickshire once the archive has been transferred to the recipient repository.

11. Confidentiality and Publicity

The archaeological works may attract the interest of the public and the press. All communication regarding this project is to be directed through the Consultant. The Contractor will refer all inquiries to the Consultant without making any unauthorised statements or comments.

The Contractor will not disseminate information or images associated with the project for publicity or information purposes without the prior written consent of the Consultant. Provision shall be made for publicising the results of the investigations locally.

12. Copyright

The Contractor shall assign copyright in all reports, documentation and images produced as part of this project to the Consultant. The Contractor shall retain the right to be identified as the author or originator of the material. This applies to all aspects of the project. It is the responsibility of the Contractor to obtain such rights from sub-contracted specialists.

The Contractor may apply in writing to use or disseminate any of the project archive or documentation (including images). Such permission will not be unreasonably withheld.

The results of the archaeological works shall be submitted to the Client and the County Archaeologist for Warwickshire by the Consultant, and will ultimately be made available for public access.

13. Access Arrangements and Site Information

Site access to undertake the archaeological investigations will be arranged/organised by the access co-ordinator for the proposed scheme. Designated routes into and out of the area(s) will be identified and will be adhered to at all times. The schedule for the archaeological will be agreed in advance with the Consultant.

The archaeological works shall not extend beyond the specified extent shown on Figure 2 without the agreement of the Consultant and the approval of the County Archaeologist for Warwickshire, prior to its implementation.

The Contractor will notify the Consultant immediately of any areas that cannot be opened and will provide a clear explanation for the situation.

The Contractor will record photographically (digital photographs) ground conditions within the targeted area before the start of ground works and also at completion.

14. Insurances and Health and Safety

The Contractor will provide the Consultant with details of their Public and Professional Indemnity insurance cover.

The Contractor will have their own Health and Safety policies compiled using national guidelines, which conform to all relevant Health and Safety legislation and best practice.

A copy of the Contractor's Health and Safety policy will be submitted to the Consultant with their tender.

The Contractor shall prepare a Risk Assessment and if appropriate a project specific Health and Safety Plan and submit these to the Consultant for approval prior to the commencement of the fieldwork. If amendments are required to the Risk Assessment during the works the Consultant and any other interested party must be provided with the revised document at the earliest opportunity.

All staff involved in the fieldwork should be CSCS qualified.

The Client and the Consultant will provide the Contractor with any available details for known overhead or buried services. However, it will remain the responsibility of the Contractor to identify and avoid any buried underground or overhead services and to carry out scanning at each trench location prior to the start of the works and during the excavation of the trenches. All site personnel will familiarise themselves with the following:

- site emergency and evacuation procedures;
- the site's health & safety coordinator;
- the first aider; and
- the location of the nearest hospital and doctor's surgery.

The supervisor will maintain a record of site attendance for each day that there is a team in the field.

All site personnel will wear full Personal Protective Equipment (PPE) in accordance with the requirements at the site. As a minimum, PPE shall consist of a hardhat, steel toe-capped boots with mid-sole protection, high visibility jacket and high visibility trousers, safety glasses and gloves shall be worn at all times. Additional PPE will be issued by the Contractor as required, i.e. ear defenders, masks etc. In addition, site personnel will ensure that any visitors to the excavation are equipped with suitable PPE prior to entry to the site.

As photographs taken as part of this project may be used for publicity or for publication purposes, it is essential that all personnel photographed within any working shot are wearing the specified PPE

All equipment must be 'fit-for-purpose' and be maintained in a sound working condition that complies with all relevant Health & Safety Regulations and recommendations.

15. General Provisions

No variation from, or changes to, the WSI will occur except by prior agreement with the Consultant's archaeological representative (where appropriate in consultation with the Contractor, and the County Archaeologist for Warwickshire).

All communications on archaeological matters will be directed through the consultant.

The Contractor shall leave all sites in a tidy and workmanlike condition and remove all materials brought onto the site.

Access for plant and temporary parking and site welfare facilities shall be agreed with the Contractor prior to entering the site.

Provision should be made by the Contractor for fencing (Heras fencing or similar) to prevent access to deep excavations if required.

The Contractor shall provide the following site accommodation facilities for the use of their staff. The number of staff required will be confirmed in the Contractor's Archaeological Method Statement. The following services will be provided:

- male and female toilets, with drying and washing facilities; and
- First Aid facilities.

16. Valid Period of Written Scheme of Investigation

This WSI is valid for a period of 6 months from the date of issue, after which it will be reviewed by the Consultant and may need to be revised, updated or amended in order to take account of new discoveries and to accommodate changes to policy, legislation, standards and guidance, good practice, the introduction of new working practices or techniques, or changes in design associated with the proposed scheme.

References

AECOM 2018. *M42 Junction 6 Improvement Scheme: Environmental Statement*. Draft.

British Geological Survey geological mapping <http://mapapps.bgs.ac.uk/geologyofbritain/home.html>

Brown, DH 2011 *Archaeological Archives: A guide to best practice in creation, compilation, transfer and curation*. 2nd edition. Institute of Field Archaeologists/Archaeological Archives Forum (Reading)
http://www.archaeologyuk.org/archives/aaf_archaeological_archives_2011.pdf

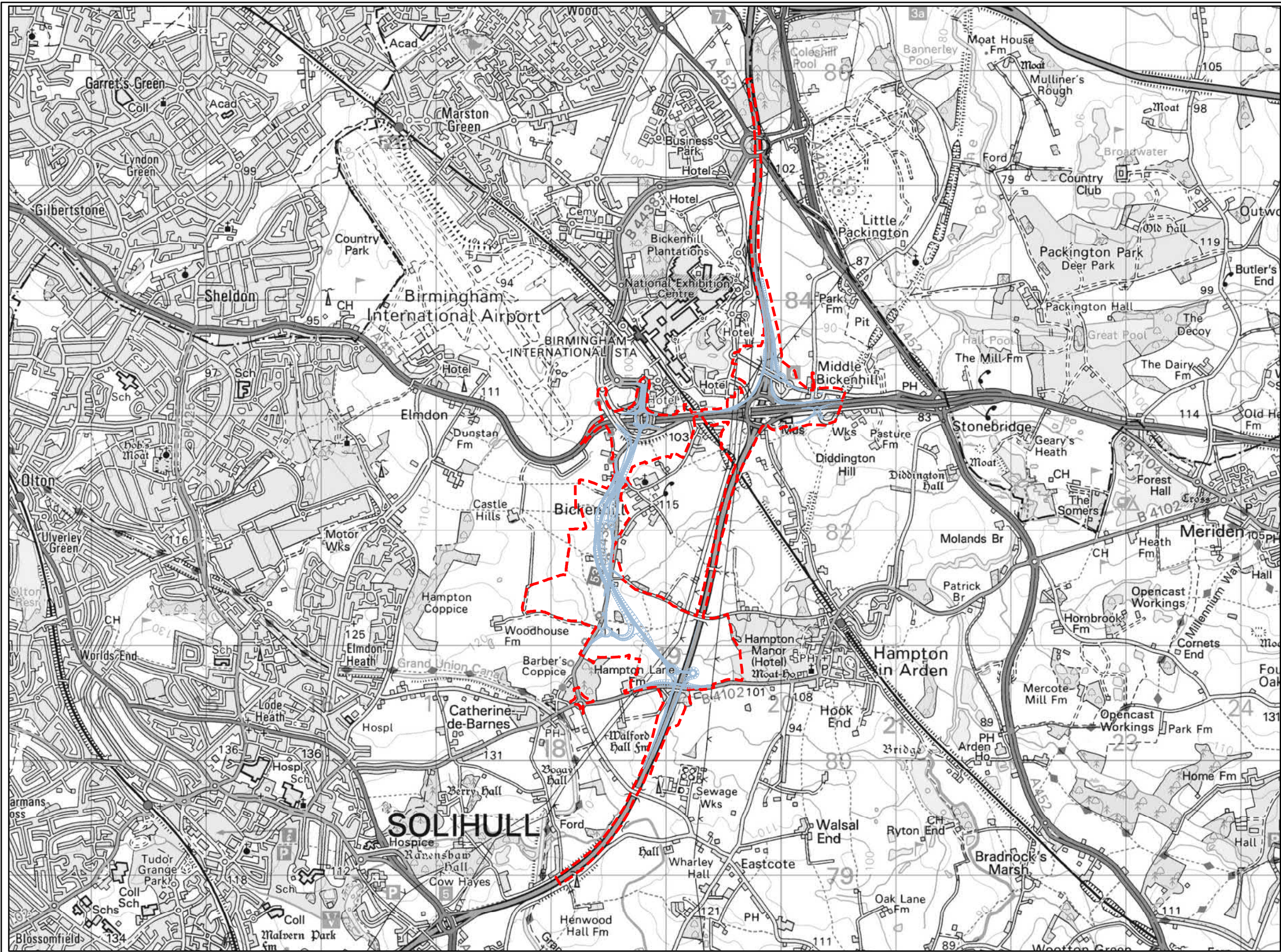
Chartered Institute for Archaeologists, 2014b. *Code of Conduct*

Chartered Institute for Archaeologists, 2014. *Standard and Guidance for Field Evaluation*

Historic England, 2015a *Metric Survey Specifications for Cultural Heritage*. Historic England (Swindon)

Historic England, 2015b. *Digital Image Capture and File Storage*. Historic England, Swindon
<http://historicengland.org.uk/images-books/publications/digital-image-capture-and-file-storage/>

Figure 1 – Location Plan



NOTES

Red Line Boundary

Proposed Scheme




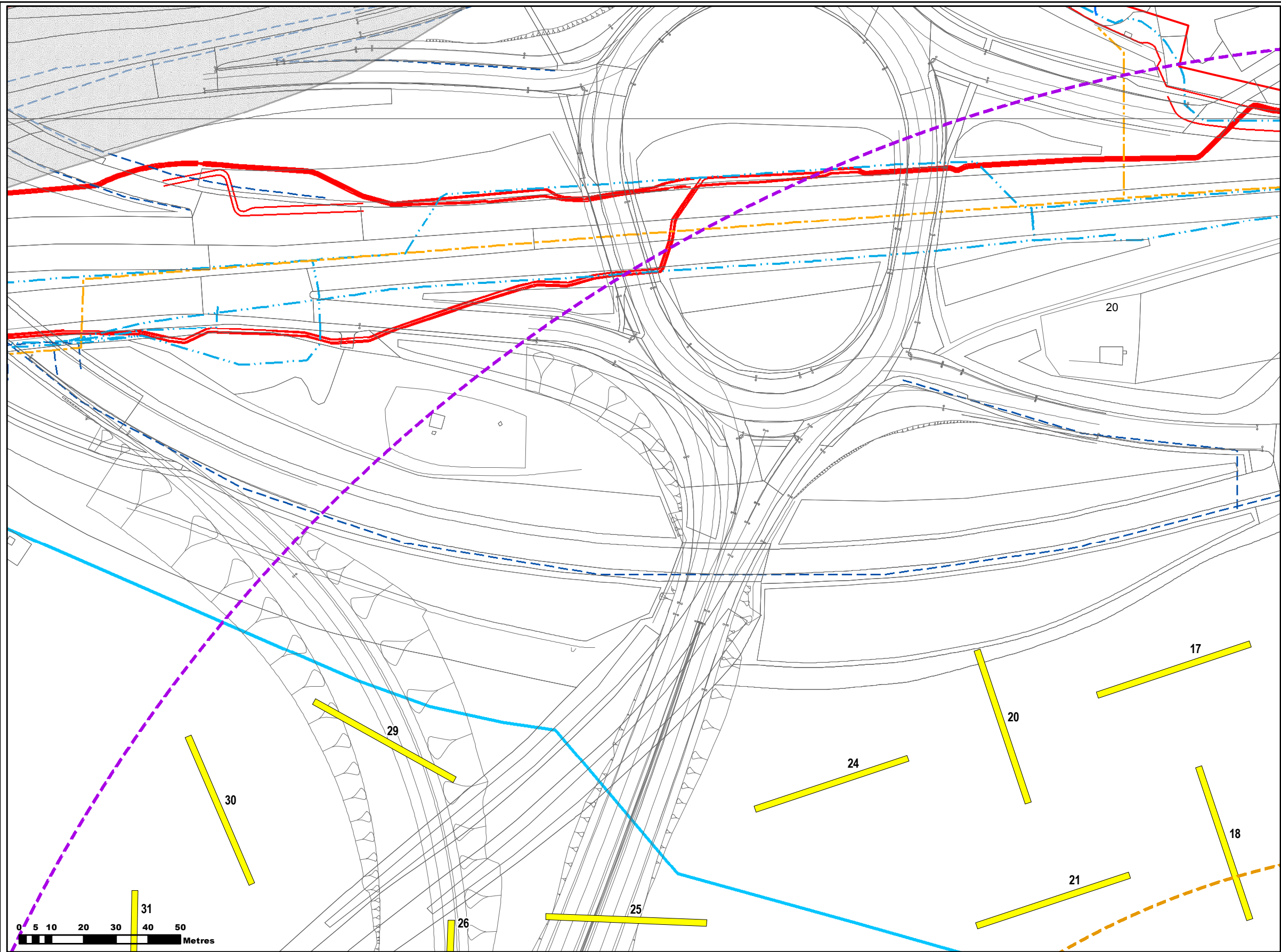
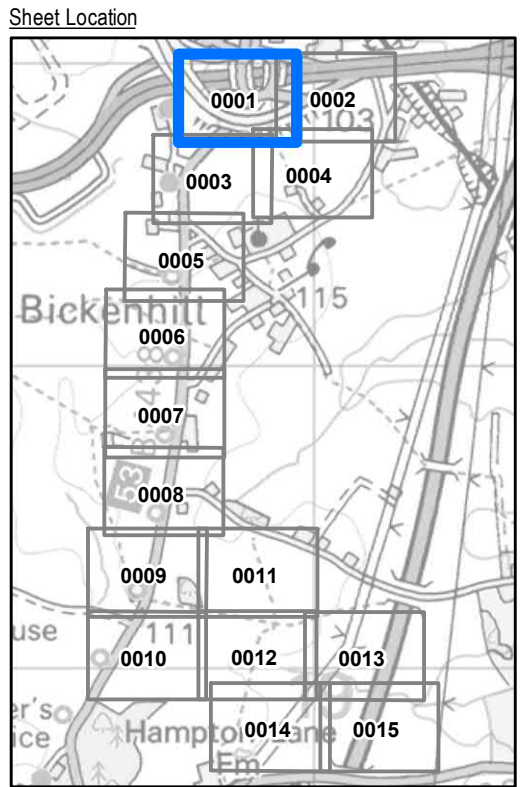

| | | | | | | | | | | | | | | |
|--|--|--|----------------|--|--|---------------------------|----------------|------------------|---|------------|--|--|--|--|
| | Purpose of Issue | Project Title | Drawing Title | Designed DM | Drawn DM | Checked HS | Approved HS | Date 07/08/18 | Project Office Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com | | | <div><div>AECOM</div><div>AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP</div></div> | | |
| | FOR INFORMATION | | | Internal Project No 60543032 | | Suitability S00 | | | | | | | | |
| | Client Highways England Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN | <div><div>Working on behalf of</div><div></div></div> | M42 JUNCTION 6 | Scale @ A3 1:35,000 | | Zone X | | | | | | | | |
| | | | | | THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. | | | | | | | | | |
| | | | | Drawing Number Highways England Pin | | Originator -ACM | | Volume -HGN- | | Rev P01 | | | | |
| | | | | HE514465 | | M42_ML_PR_CR - DR-CH-0016 | | | | | | | | |
| | | | | Location | | Type | | Role | | Number | | | | |

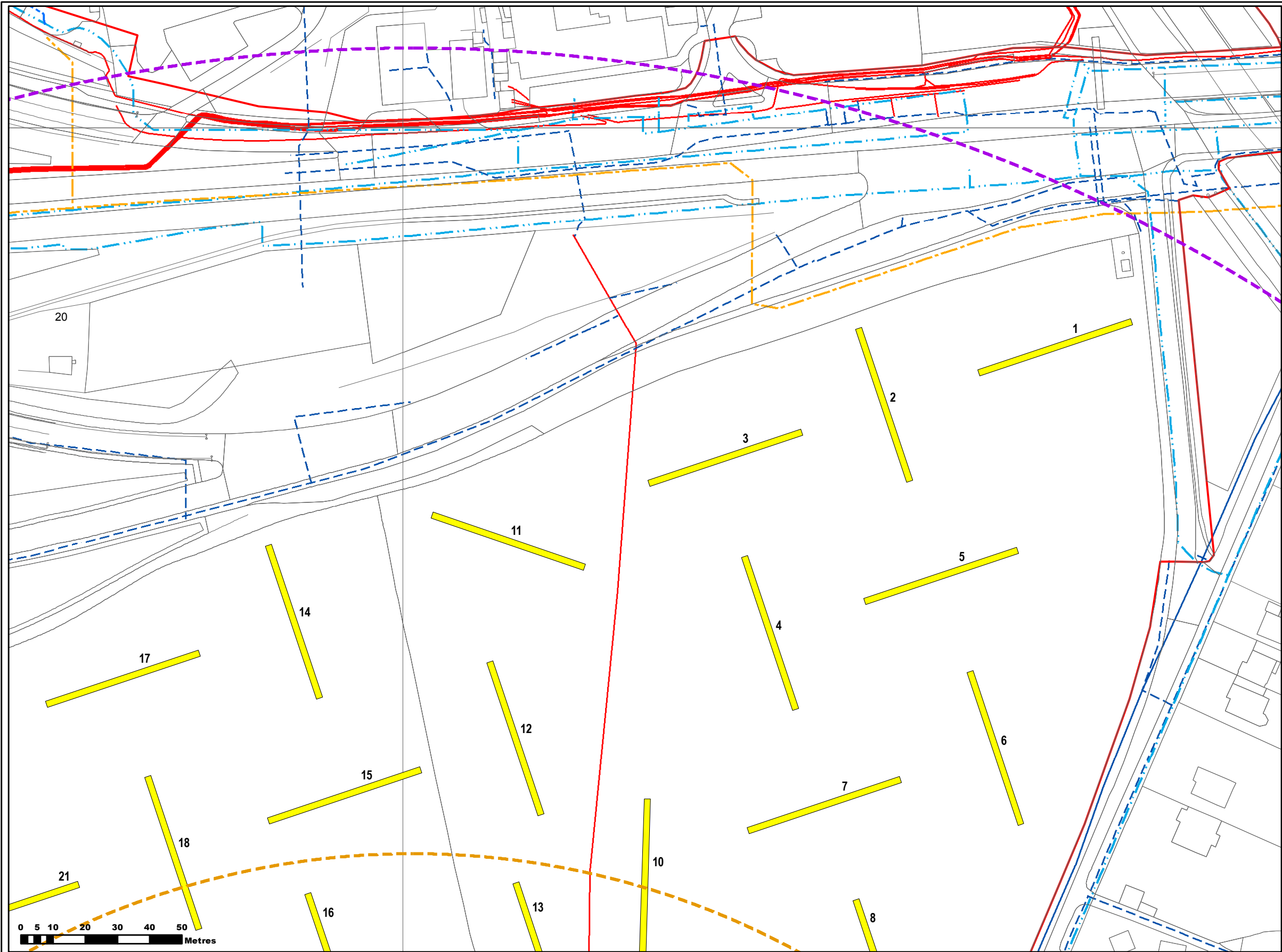
Figure 2 – Trench Location Plan



- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - Local Wildlife Sites**
 - destroyed (LWS)
 - 250m Buffer From GCN Pond
 - 500m Buffer From GCN Pond
 - Utilities**
 - Low Pressure Mains
 - Medium Pressure Mains
 - (11Kv) Underground Western Power Distribution
 - Low Voltage Underground Western Power Distribution
 - Unconfirmed
 - Water Main Severn Trent Water

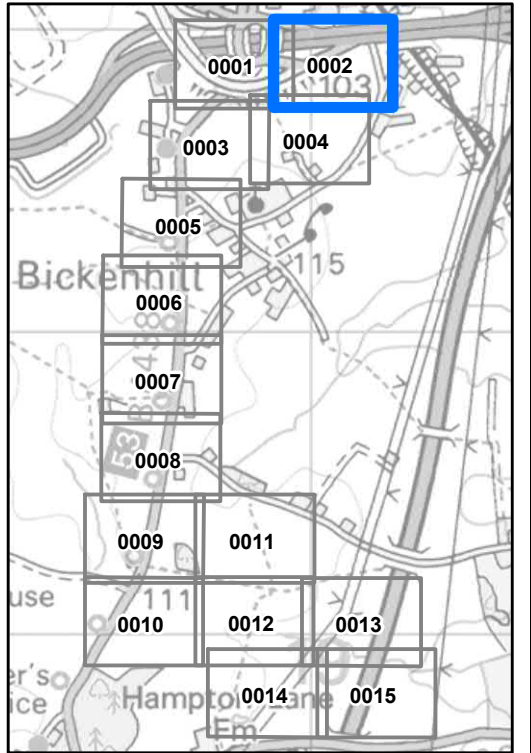


| | | | | | | | | | |
|---|---|--|--|--------------------|--------------------------|-----------------------|-------------------------|--|---|
| Purpose of Issue FOR INFORMATION | Project Title M42 JUNCTION 6 | Drawing Title FIGURE 1A ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS | Designed FL | Drawn GB | Checked FL | Approved GC | Date 06/08/18 | Project Office Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com | AECOM AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP |
| | | | Internal Project No 60543032 | | Suitability S2 | | Zone M42 | | |
| Client Highways England Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN |  | THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. | | | HE551485 | -ACM | | -EHR- | ZZ_SW_ZZ_ZZ |
| | | | | | Location | - DR-LH-0001 | Type | Role | |

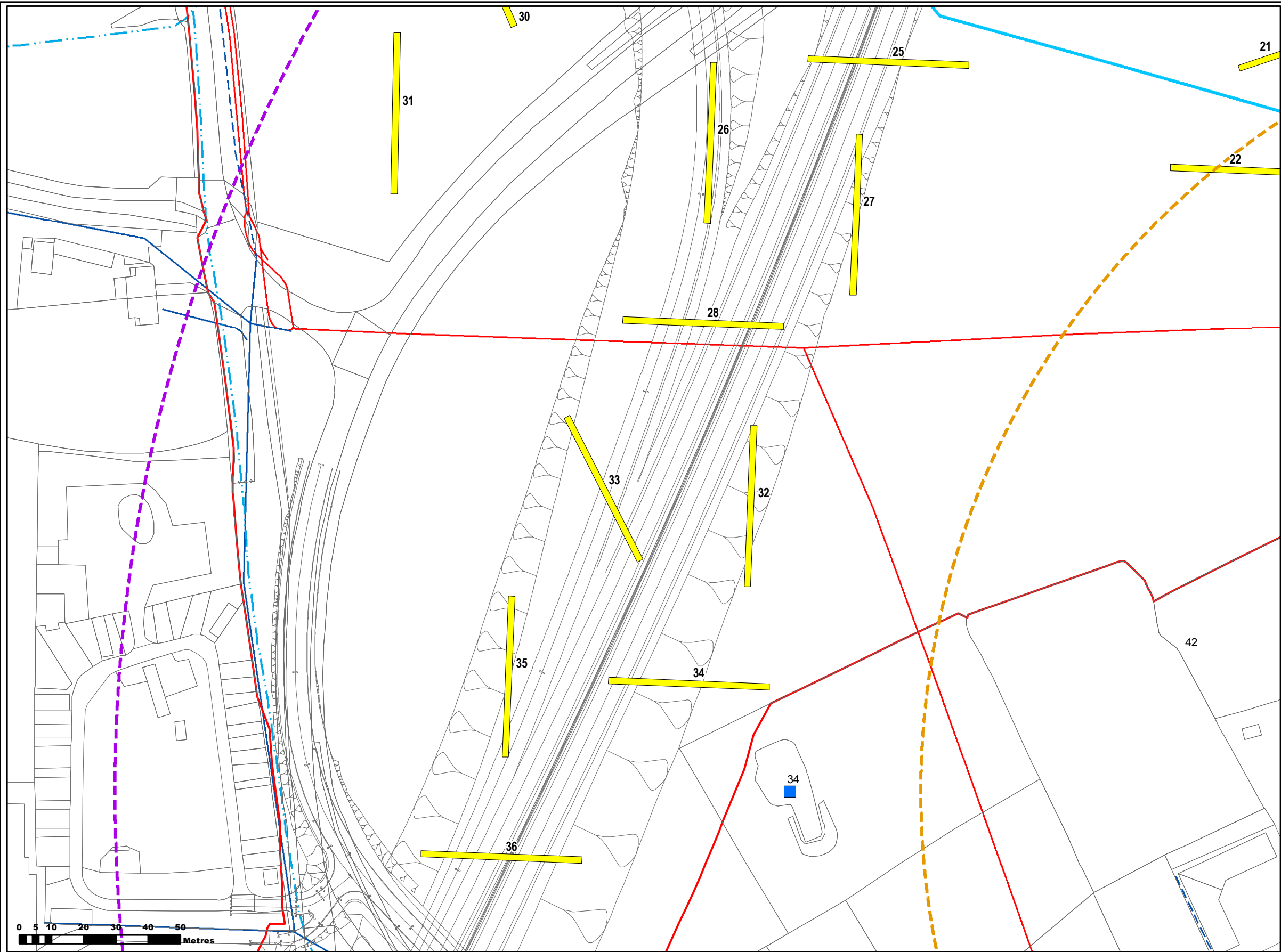


- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - 250m Buffer From GCN Pond
 - 500m Buffer From GCN Pond
- Utilities
- Low Pressure Mains
 - Medium Pressure Mains
 - (11Kv) Underground Western Power Distribution
 - Low Voltage Overhead Western Power Distribution
 - Low Voltage Underground Western Power Distribution
 - Water Main Severn Trent Water

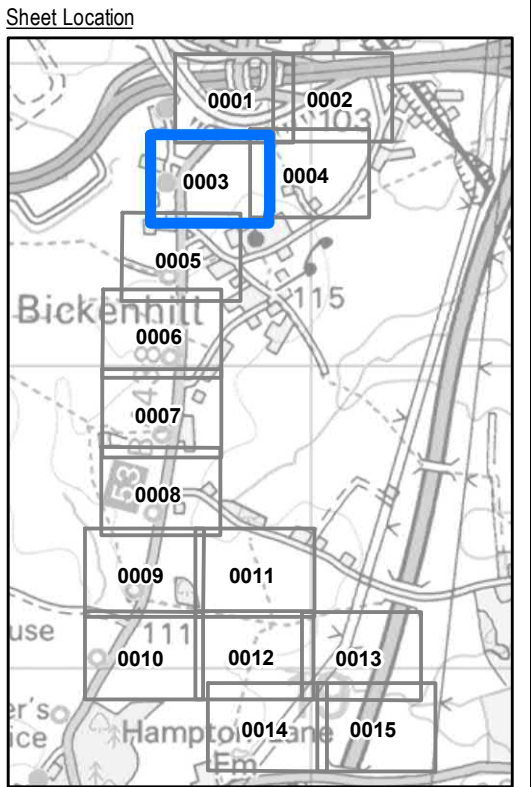
Sheet Location




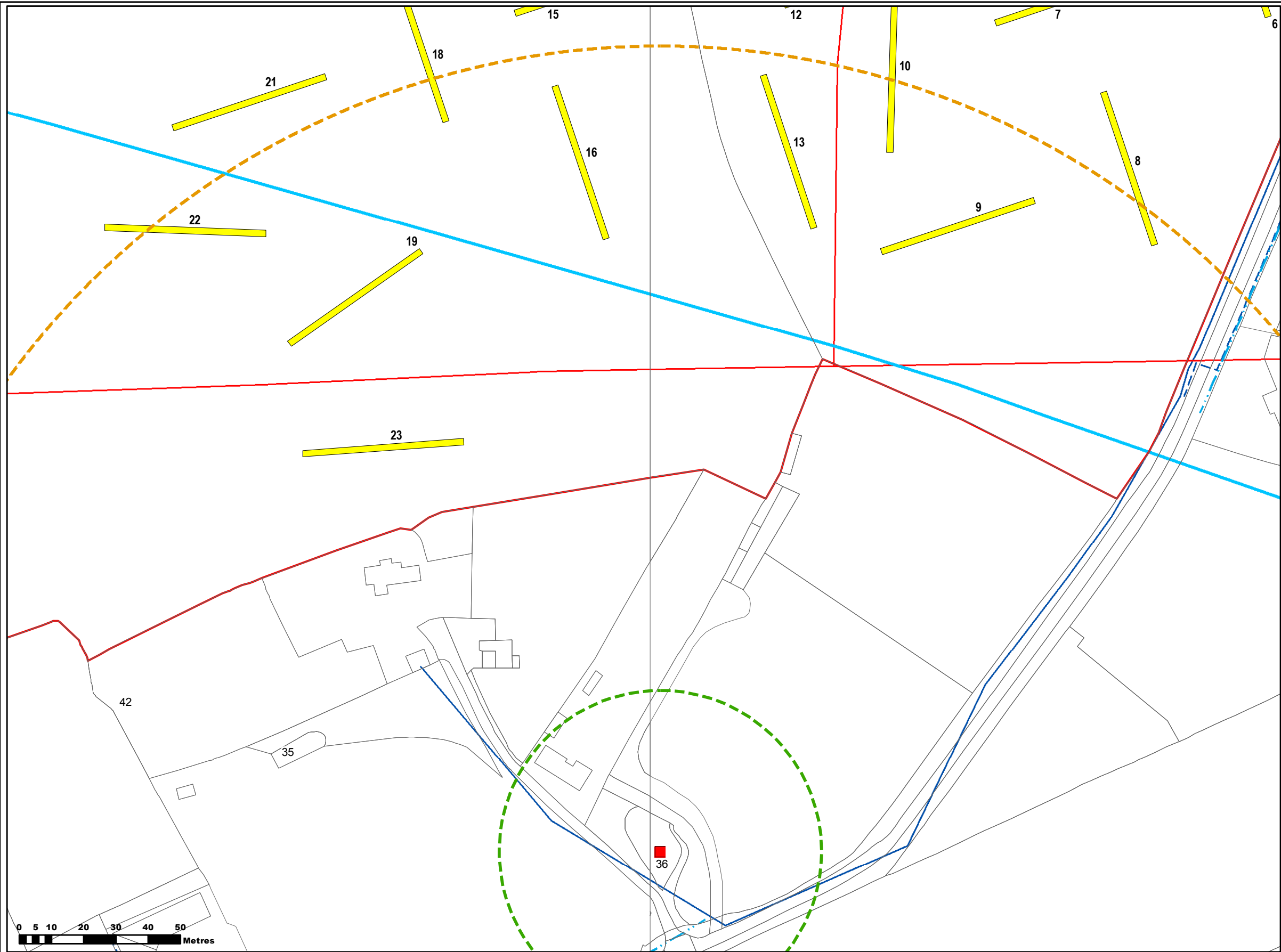
| | | | | | | | | | | | | |
|---|--|--|--|--|-------------|---|----------------|------------------|---|--|---|-------------------|
| Purpose of Issue FOR INFORMATION | | Project Title M42 JUNCTION 6 | Drawing Title FIGURE 1B ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS | Designed FL Internal Project No 60543032 Scale @ A3 1:1,250 | Drawn GB | Checked FL Suitability S2 Zone M42 | Approved GC | Date 06/08/18 | Project Office Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com | | AECOM AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP | |
| Client Highways England Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN Working on behalf of highways england | | | | THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. | | | | | Drawing Number Highways England Pin HE551485 ZZ_SW_ZZ_ZZ Location | Originator -ACM - DR-LH-0002 Type Role Number | Volume -EHR- - DR-LH-0002 Type Role Number | Rev P01 |



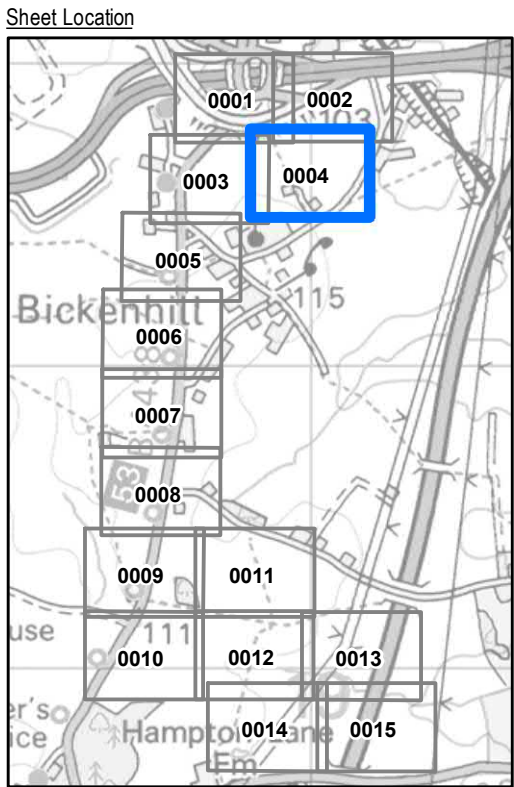
- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - Great Crested Newt Survey**
 - Surveyed: No GCN Found
 - 250m Buffer From GCN Pond
 - 500m Buffer From GCN Pond
 - Utilities**
 - (11Kv) Underground Western Power Distribution
 - Low Voltage Overhead Western Power Distribution
 - Low Voltage Underground Western Power Distribution
 - Unconfirmed
 - Water Main Severn Trent Water




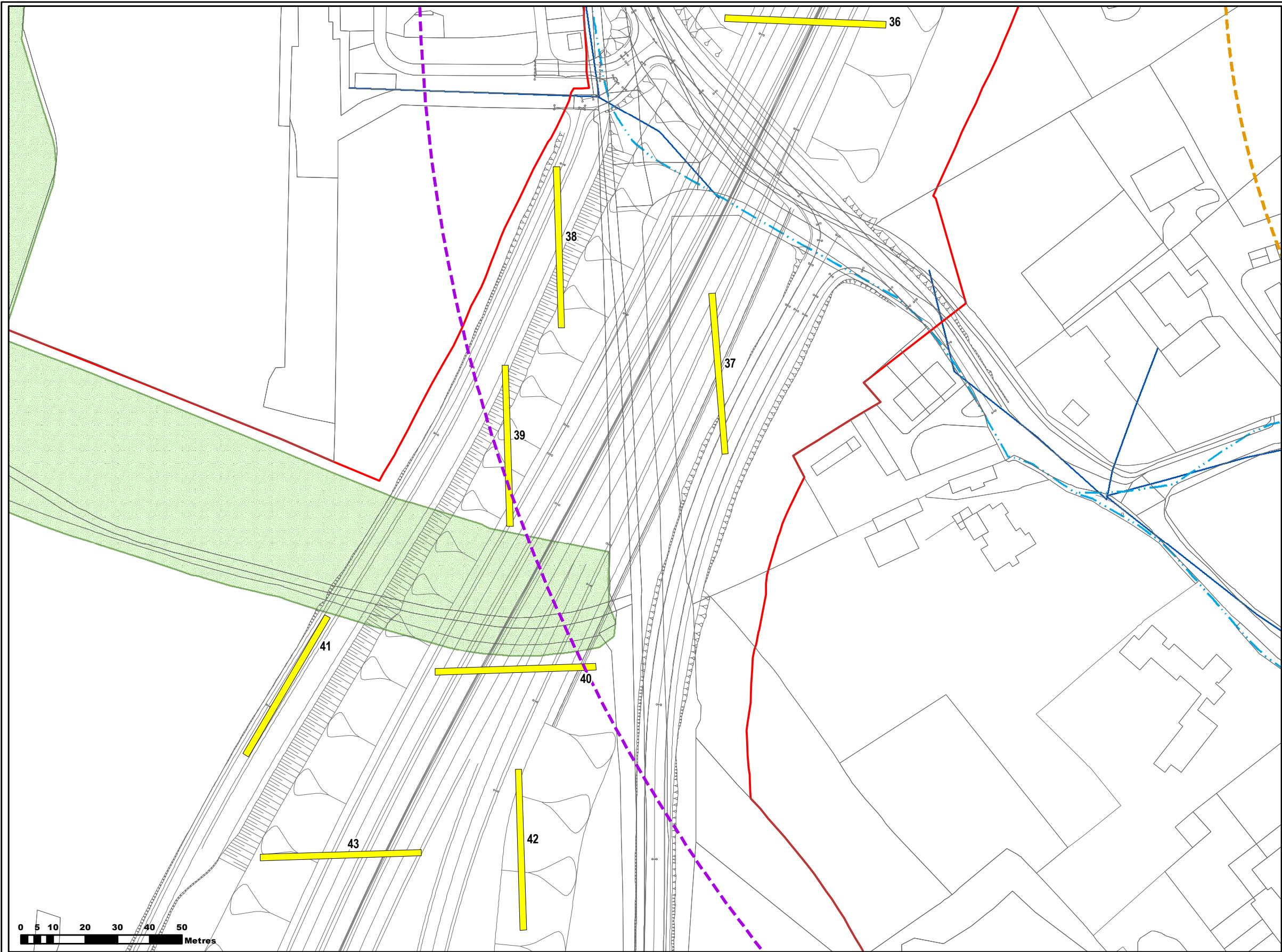
| | | | | | | | | | | | |
|---|------------------|---|---|--|-------------|---------------------------------|----------------|------------------|--|---|--|
| | Purpose of Issue | Project Title | Drawing Title | Designed FL | Drawn GB | Checked FL | Approved GC | Date 06/08/18 | Project Office | | |
| | FOR INFORMATION | M42 JUNCTION 6 | FIGURE 1C ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS | Internal Project No 60543032 | | Suitability S2 | | www.aecom.com | Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 | | AECOM AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP |
| | | | | Scale @ A3 1:1,250 | | Zone M42 | | | Tel(01246) 209221 Fax(01246) 209229 | | |
| | | | | THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. | | | | | | Drawing Number Highways England Pin Originator Volume HE551485 -ACM -EHR- | |
| Client Highways England Major Projects Rge Cube 199 Wharfedale Street Birmingham B1 1RN | | Working on behalf of  | | ZZ_SW_ZZ_ZZ - DR-LH-0003 | | Location Type Role Number | | | | | |



- NOTES
- Red Line Boundary
 - 50 x 2m Archaeological Trial
- Great Crested Newt**
- Surveyed: GCN Found
 - 50m Buffer From GCN Pond
 - 250m Buffer From GCN Pond
 - 500m Buffer From GCN Pond
- Utilities**
- (11Kv) Underground Western Power
 - Low Voltage Overhead Western Power
 - Low Voltage Underground Western Power Distribution
 - Unconfirmed
 - Water Main Severn Trent Water

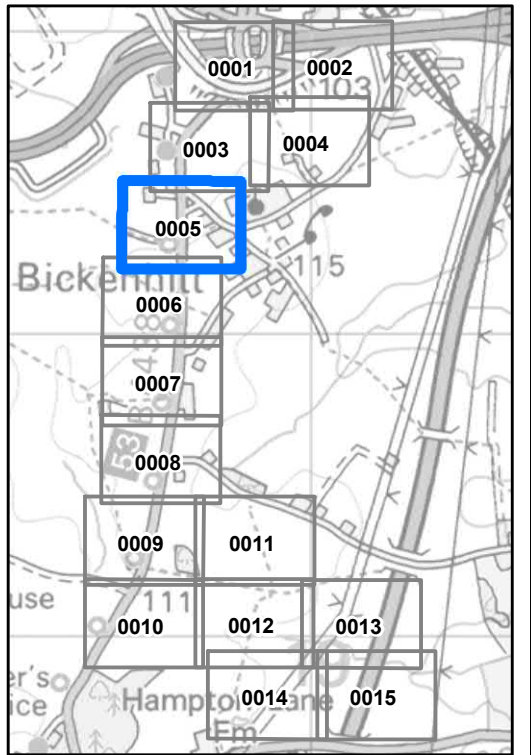


| | | | | | | | | | | | | | | | |
|--|--|----------------|---|---------------------------------|--|-------------------|---------------|--|------------------|--|--|------------|--|--|--|
| Purpose of Issue | | Project Title | Drawing Title | Designed FL | | Drawn GB | Checked FL | Approved GC | Date 06/08/18 | Project Office | | AECOM | | | |
| FOR INFORMATION | | M42 JUNCTION 6 | FIGURE 1D ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS | Internal Project No 60543032 | | Suitability S2 | | | | Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com | | | | AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 88032 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP | |
| Client Highways England Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN | | | | Scale @ A3 1:1,250 | | Zone M42 | | THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. | | Drawing Number Highways England Pin Originator Volume HE551485 -ACM -EHR- ZZ_SW_ZZ_ZZ - DR-LH-0004 Location Type Role Number | | Rev P01 | | | |
| <div><div>Working on behalf of</div><div></div></div> | | | | | | | | | | | | | | | |

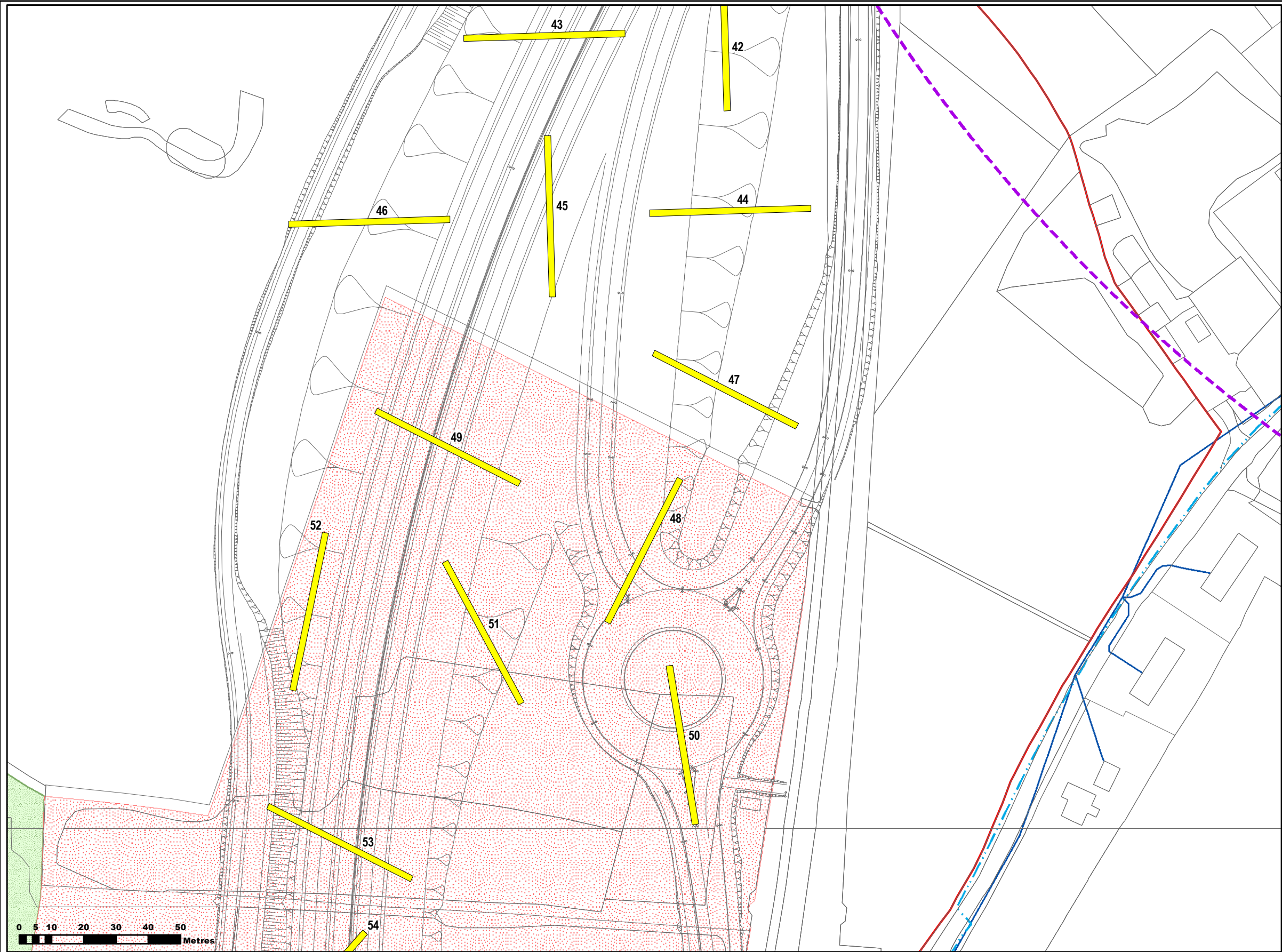


- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - Local Wildlife Sites**
 - Local Wildlife Site (LWS)
 - 250m Buffer From GCN Pond
 - 500m Buffer From GCN Pond
 - Utilities**
 - Low Voltage Overhead Western Power Distribution
 - Water Main Severn Trent Water

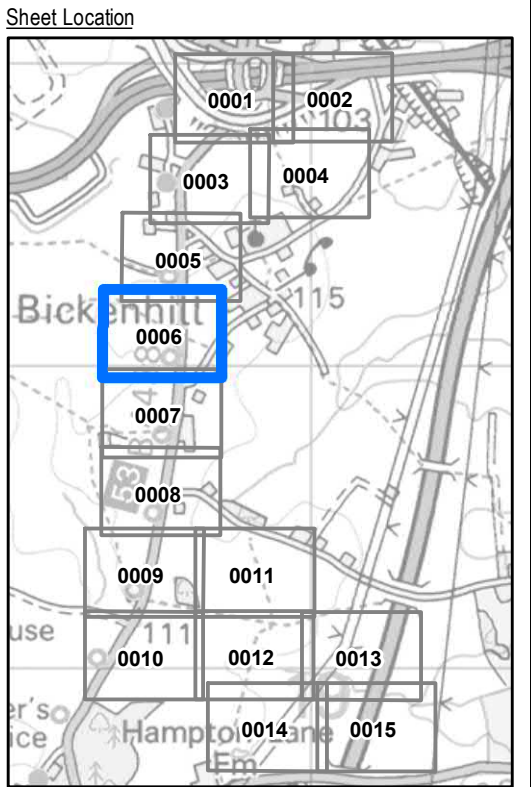
Sheet Location




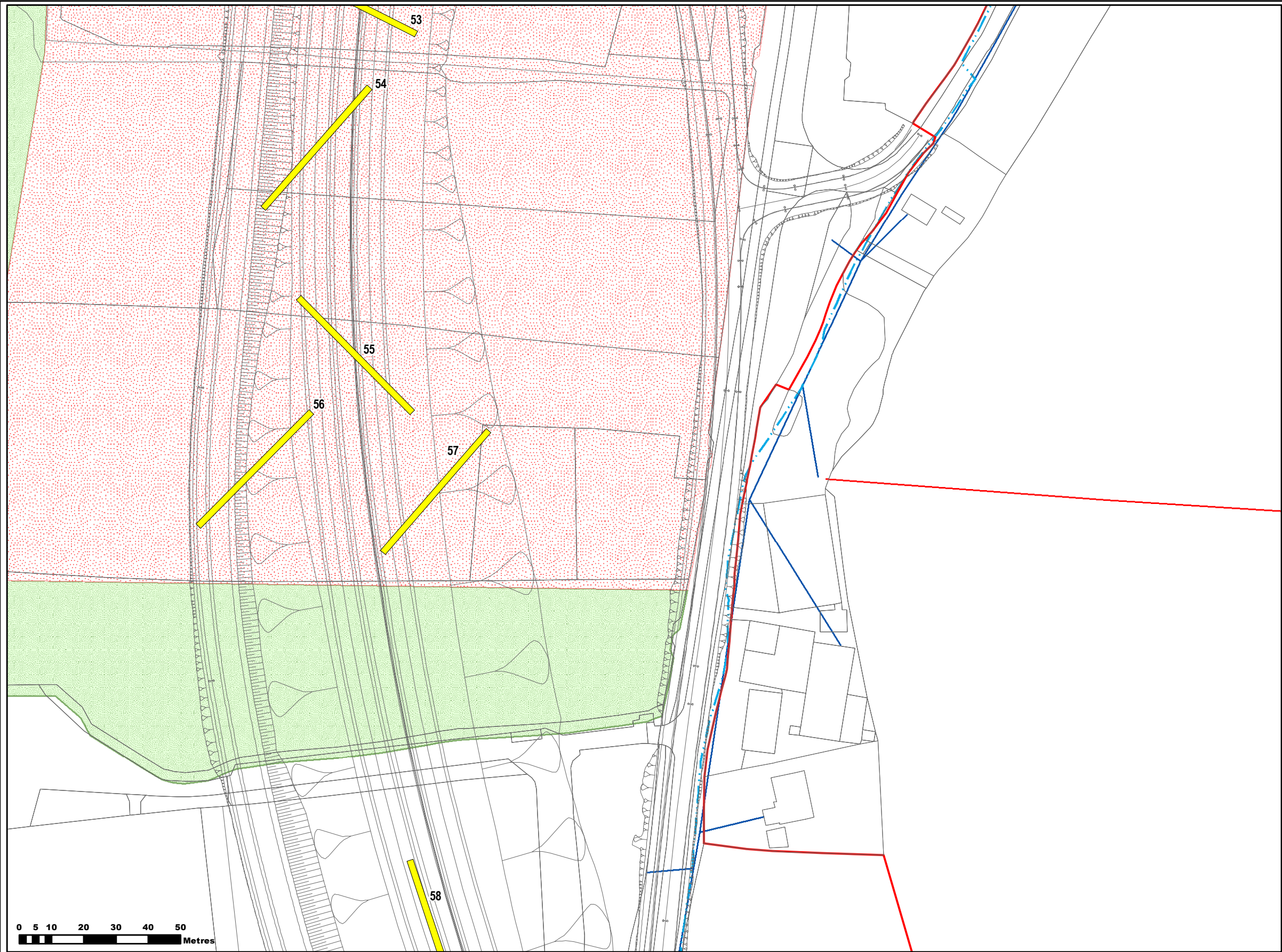
| | | | | | | | | | |
|--|---|--|--|-------------------------------|-------------------------|---------------------------|----------------------------|------------------------------|--|
| | <div>Purpose of Issue</div> <div>FOR INFORMATION</div> | <div>Project Title</div> <div>M42 JUNCTION 6</div> | <div>Drawing Title</div> <div>FIGURE 1E ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS</div> | <div>Designed FL</div> | <div>Drawn GB</div> | <div>Checked FL</div> | <div>Approved GC</div> | <div>Date 06/08/18</div> | <div>Project Office</div> <div>Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com</div> <div><div>AECOM</div><div>AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP</div></div> |
| | <div>Internal Project No 60543032</div> | | | <div>Suitability S2</div> | | | | | |
| | <div>Scale @ A3 1:1,250</div> | | | <div>Zone M42</div> | | | | | |
| | <div>THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.</div> | | | | | | | | |
| | <div><div>Highways England Pin</div><div>Originator</div><div>Volume</div><div>Rev</div><div>HE551485 -ACM -EHR- P01</div><div>ZZ_SW_ZZ_ZZ -DR-LH-0005</div><div>Location Type Role Number</div></div> | | | | | | | | |
| | <div>Client</div> <div>Highways England</div> <div>Major Projects</div> <div>Rge Cube</div> <div>199 Wharfside Street</div> <div>Birmingham</div> <div>B1 1RN</div> <div><div>Working on behalf of</div><div><div>highways</div><div>england</div></div></div> | | | | | | | | |



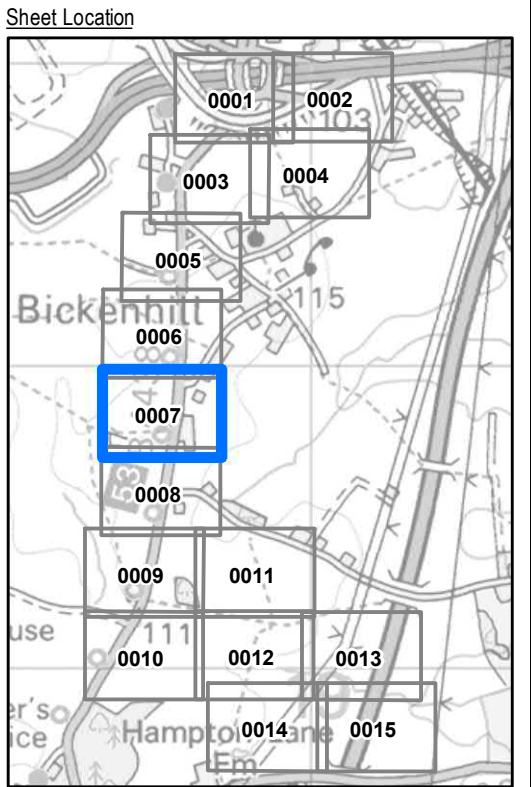
- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - Local Wildlife Sites**
 - Local Wildlife Site (LWS)
 - rejected (LWS)
 - 500m Buffer From GCN Pond
 - Utilities**
 - Low Voltage Overhead Western Power Distribution
 - Water Main Severn Trent Water



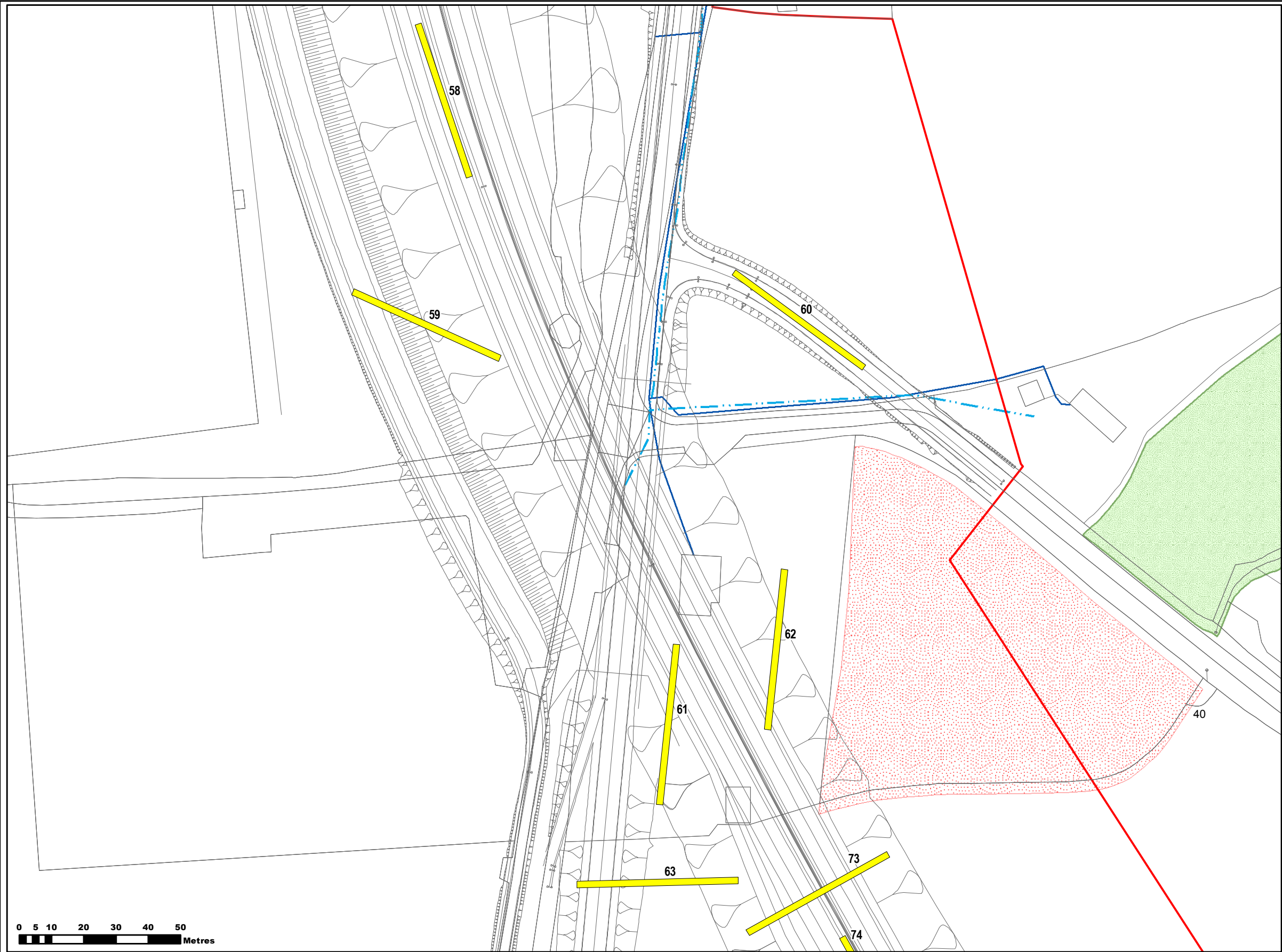
| | | | | | | | | | |
|--|---|--|--|--|-------------------------|--|------------------------------------|-------------------------------|--|
| | <div>Purpose of Issue</div> <div>FOR INFORMATION</div> | <div>Project Title</div> <div>M42 JUNCTION 6</div> | <div>Drawing Title</div> <div>FIGURE 1F ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS</div> | <div>Designed FL</div> | <div>Drawn GB</div> | <div>Checked FL</div> | <div>Approved GC</div> | <div>Date 06/08/18</div> | <div>Project Office</div> <div>Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com</div> <div><div>AECOM</div><div>AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP</div></div> |
| | <div>Internal Project No 60543032</div> | | | <div>Suitability S2</div> | | | | | |
| | <div>Scale @ A3 1:1,250</div> | | | <div>Zone M42</div> | | | | | |
| | <div>THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.</div> | | | | | | | | |
| | <div>Client</div> <div>Highways England</div> <div>Major Projects</div> <div>Rge Cube</div> <div>199 Wharfside Street</div> <div>Birmingham</div> <div>B1 1RN</div> <div><div>Working on behalf of</div><div></div></div> | | | <div>Drawing Number</div> <div>Highways England Pin</div> <div>HE551485</div> <div>ZZ_SW_ZZ_ZZ</div> <div>Location</div> | | <div>Originator</div> <div>-ACM</div> <div>-DR-LH-0006</div> <div> Type Role Number</div> | <div>Volume</div> <div>-EHR-</div> | <div>Rev</div> <div>P01</div> | |



- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - Local Wildlife Sites**
 - Local Wildlife Site (LWS)
 - rejected (LWS)
 - Utilities**
 - (11Kv) Underground Western Power Distribution
 - Low Voltage Overhead Western Power Distribution
 - Water Main Severn Trent Water

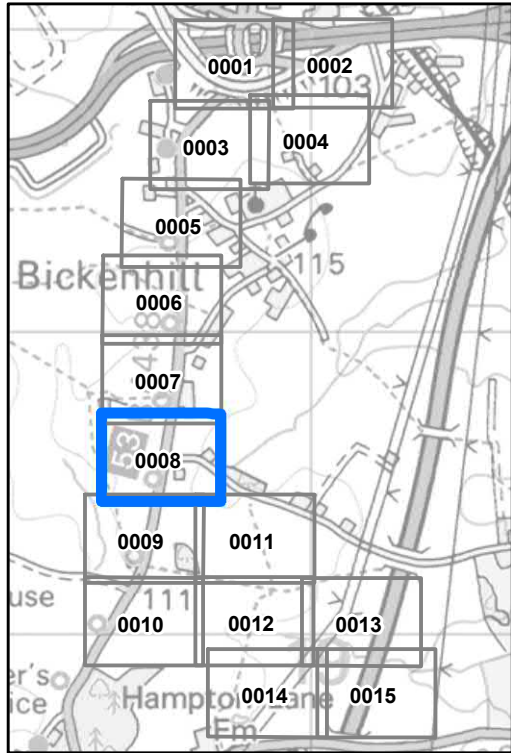



| | | | | | | | | | | |
|--|---|--|--|--|--|--|------------------------------------|-------------------------------|------------------------------|--|
| | <div>Purpose of Issue</div> <div>FOR INFORMATION</div> | | <div>Project Title</div> <div>M42 JUNCTION 6</div> | <div>Drawing Title</div> <div>FIGURE 1G ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS</div> | <div>Designed FL</div> | <div>Drawn GB</div> | <div>Checked FL</div> | <div>Approved GC</div> | <div>Date 06/08/18</div> | <div>Project Office</div> <div>Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com</div> <div><div>AECOM</div><div>AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP</div></div> |
| | <div>Internal Project No 60543032</div> | | | | <div>Suitability S2</div> | | | | | |
| | <div>Scale @ A3 1:1,250</div> | | | | <div>Zone M42</div> | | | | | |
| | <div>THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.</div> | | | | | | | | | |
| | <div>Client</div> <div>Highways England</div> <div>Major Projects</div> <div>Rge Cube</div> <div>199 Wharfside Street</div> <div>Birmingham</div> <div>B1 1RN</div> <div><div>Working on behalf of</div><div><div>highways</div><div>england</div></div></div> | | | | <div>Drawing Number</div> <div>Highways England Pin</div> <div>HE551485</div> <div>ZZ_SW_ZZ_ZZ</div> <div>Location</div> | <div>Originator</div> <div>-ACM</div> <div>-DR-LH-0007</div> <div> Type Role Number</div> | <div>Volume</div> <div>-EHR-</div> | <div>Rev</div> <div>P01</div> | | |

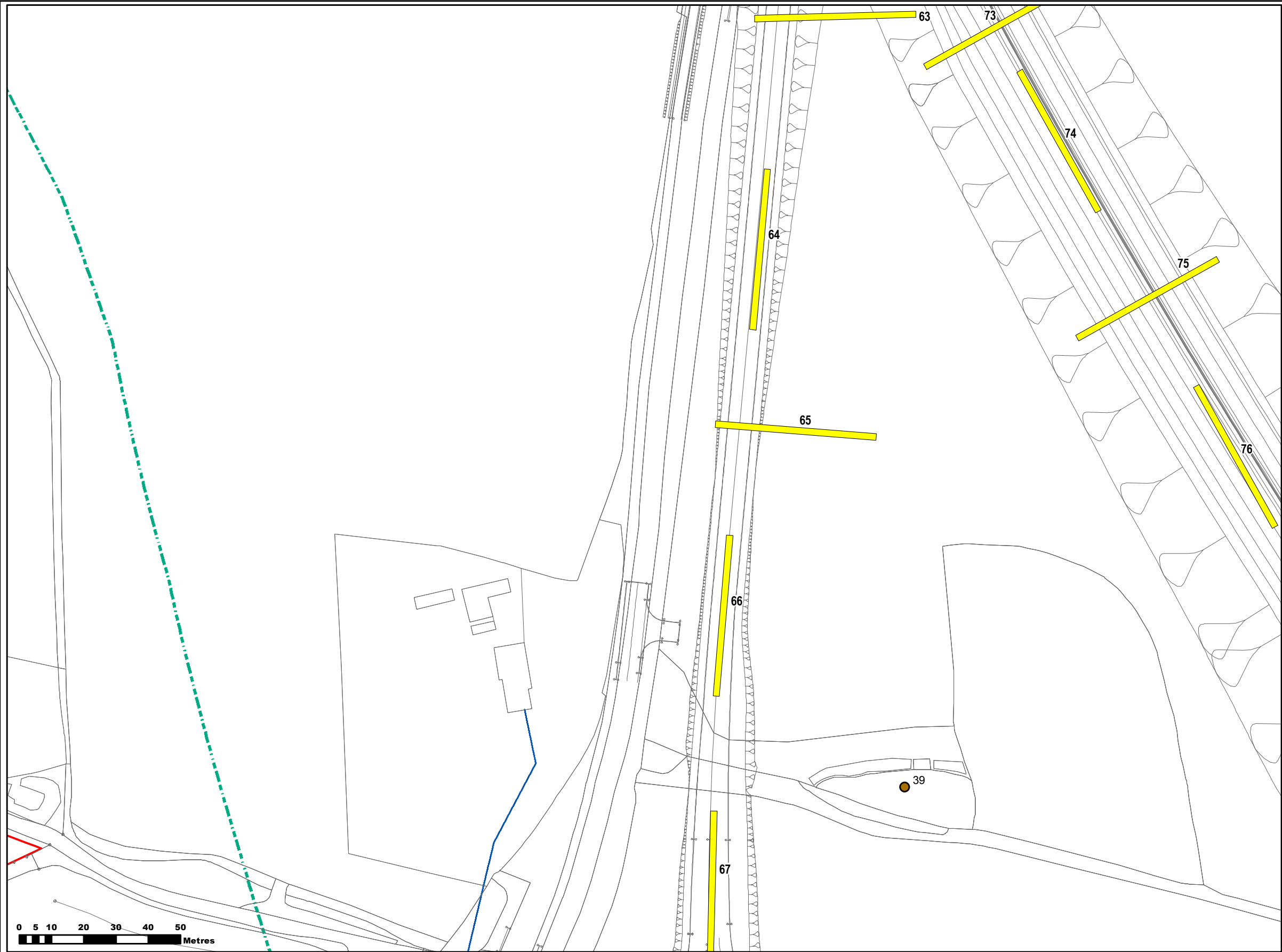


- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - Local Wildlife**
 - Local Wildlife Site (LWS)
 - rejected (LWS)
 - Low Voltage Overhead Western Power
 - Water Main Severn Trent

Sheet Location

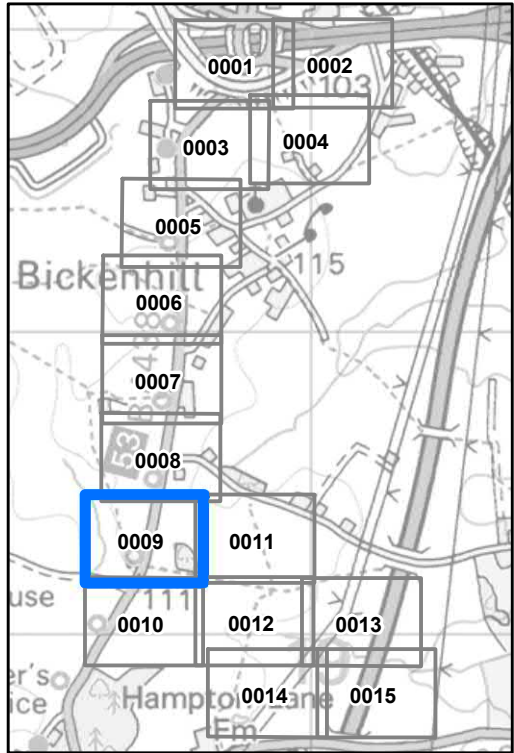



| | | | | | | | | | | |
|--|---|--|--|---|-------------------------|---------------------------|----------------------------|--|--|--|
| | <div>Purpose of Issue</div> <div>FOR INFORMATION</div> | <div>Project Title</div> <div>M42 JUNCTION 6</div> | <div>Drawing Title</div> <div>FIGURE 1H ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS</div> | <div>Designed FL</div> | <div>Drawn GB</div> | <div>Checked FL</div> | <div>Approved GC</div> | <div>Date 06/08/18</div> | <div>Project Office</div> <div>Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com</div> <div><div>AECOM</div><div>AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP</div></div> | |
| | <div>Internal Project No 60543032</div> | | | <div>Suitability S2</div> | | | | | | |
| | <div>Scale @ A3 1:1,250</div> | | | <div>Zone M42</div> | | | | | | |
| | <div>THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.</div> | | | | | | | | | |
| | <div>Client</div> <div>Highways England</div> <div>Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN</div> <div><div>Working on behalf of</div><div></div></div> | | | <div>Drawing Number Highways England Pin</div> <div>HE551485</div> <div>ZZ_SW_ZZ_ZZ</div> <div>Location</div> | | | | <div>Originator</div> <div>-ACM</div> <div>-DR-LH-0008</div> <div>Type</div> | <div>Volume</div> <div>-EHR-</div> <div>Role</div> | <div>Rev</div> <div>P0</div> <div>Number</div> |

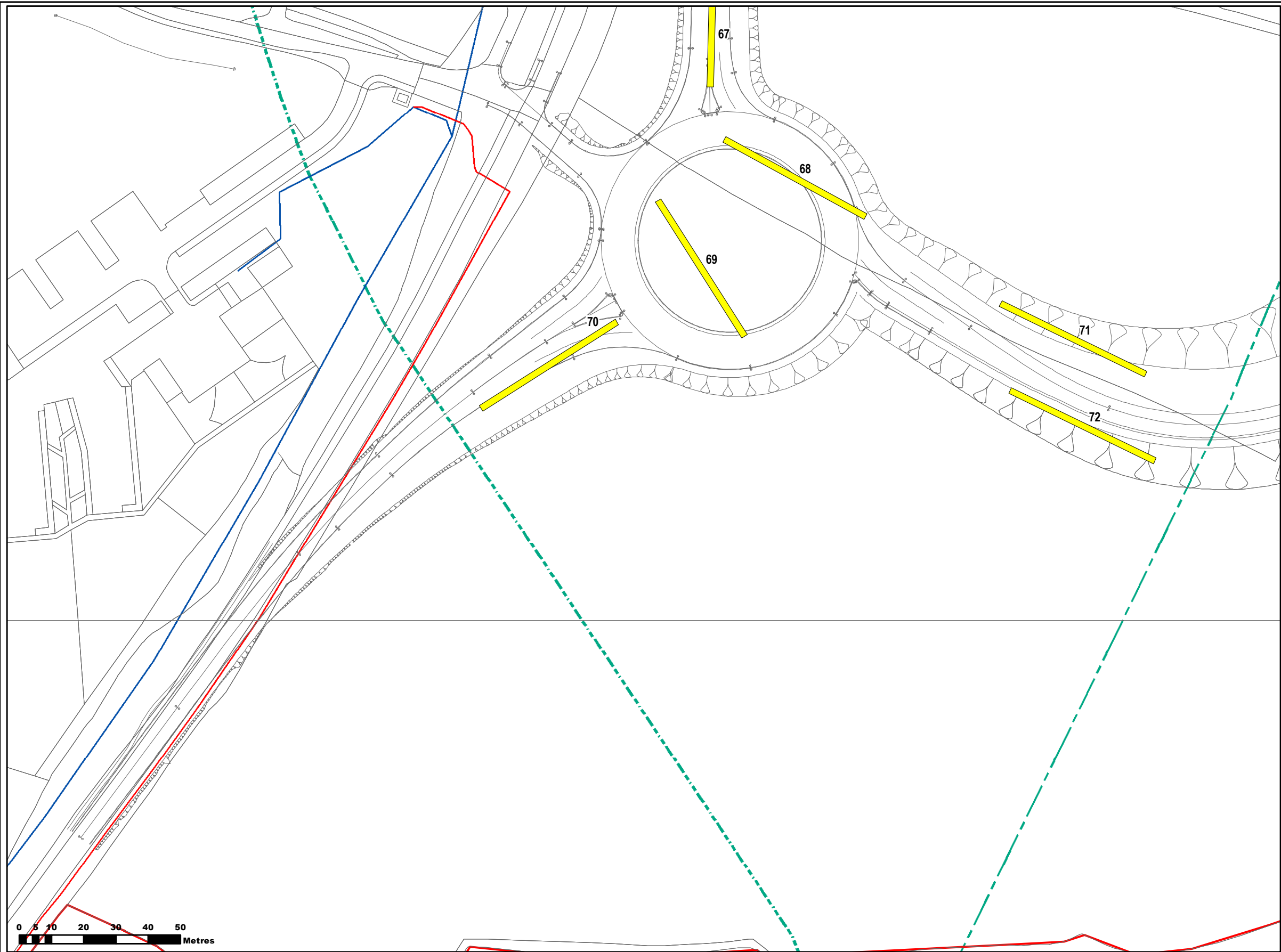


- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - Great Crested Newt**
 - Not Surveyed: Pond Dry
 - Utilities**
 - ESSO Petroleum Company LTD
 - Low Voltage Overhead Western Power

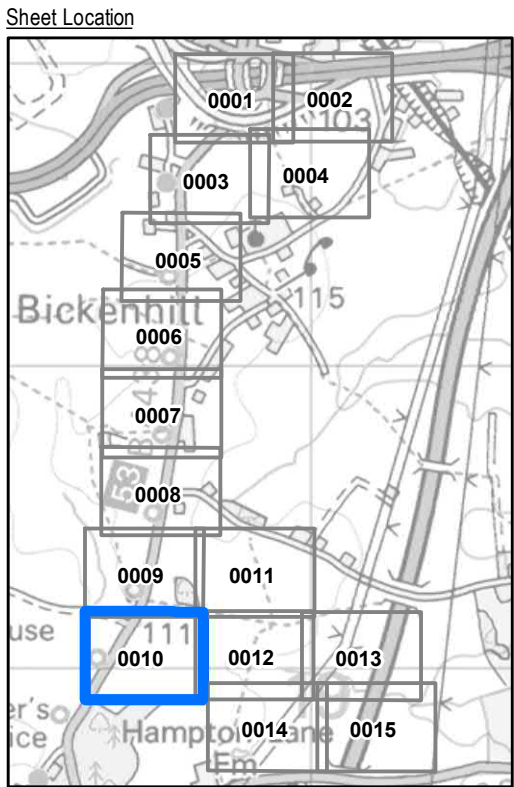
Sheet Location



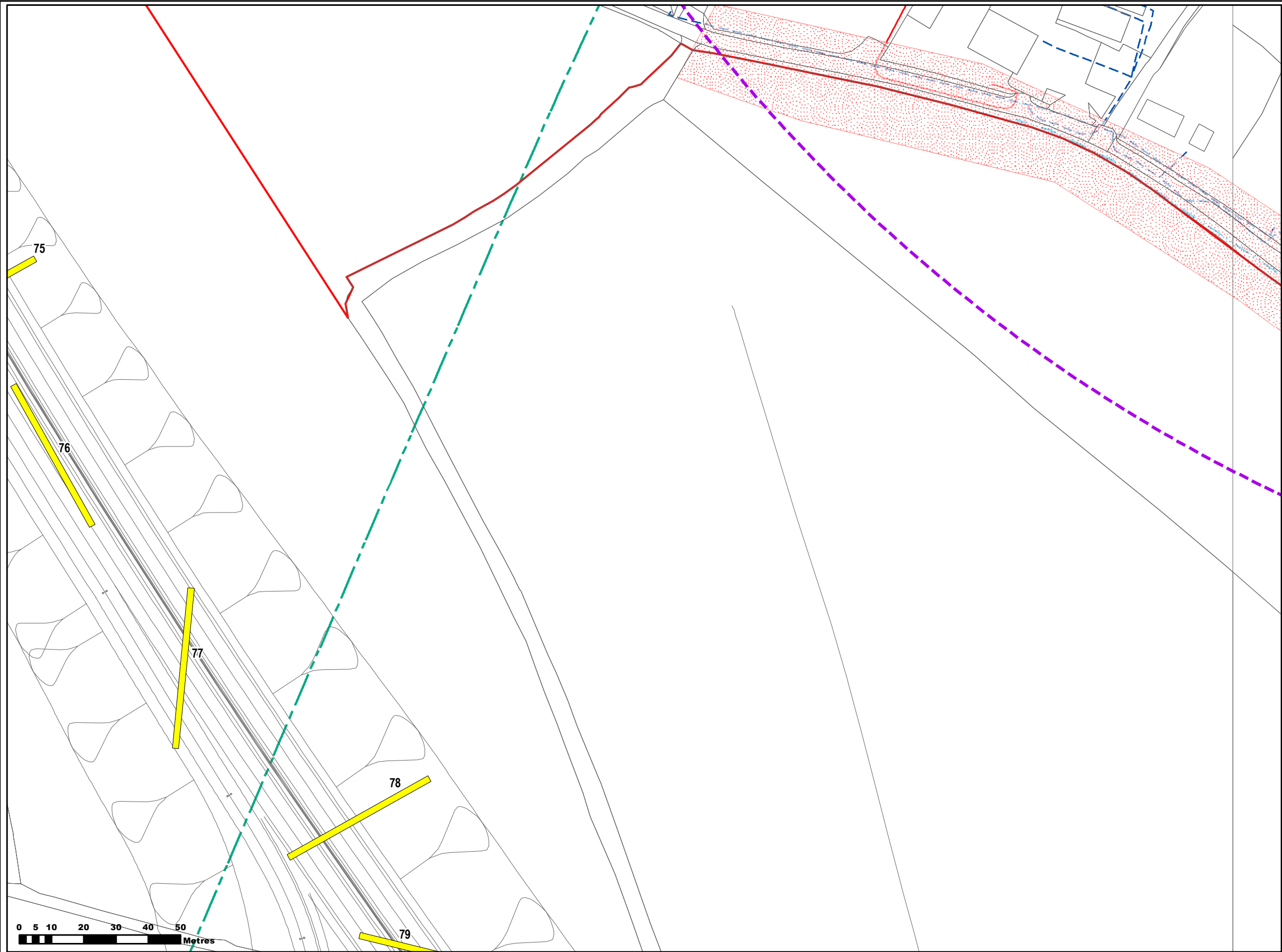
| | | | | | | | | | |
|--|--|--|--|--|--|--|---|--|--|
| | <div><div>Purpose of Issue</div><div>FOR INFORMATION</div></div> | <div><div>Project Title</div><div>M42 JUNCTION 6</div></div> | <div><div>Drawing Title</div><div>FIGURE 11 ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS</div></div> | <div><div>Designed</div><div>FL</div></div> <div><div>Internal Project No</div><div>60543032</div></div> <div><div>Scale @ A3</div><div>1:1,250</div></div> | <div><div>Drawn</div><div>GB</div></div> <div><div>Suitability</div><div>S2</div></div> <div><div>Zone</div><div>M42</div></div> | <div><div>Checked</div><div>FL</div></div> <div><div>Approved</div><div>GC</div></div> <div><div>Date</div><div>06/08/18</div></div> | <div><div>Project Office</div><div>Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com</div></div> <div><div>AECOM</div><div>AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP</div></div> | | |
| | <div><div>THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.</div></div> | | | <div><div>Drawing Number</div><div>HE551485</div></div> <div><div>Highways England Pin</div><div>ZZ_SW_ZZ_ZZ</div></div> <div><div>Location</div><div></div></div> | <div><div>Originator</div><div>-ACM</div></div> <div><div>Volume</div><div>-EHR-</div></div> <div><div>-DR-LH-0009</div></div> <div><div>Type</div><div></div></div> <div><div>Role</div><div></div></div> <div><div>Number</div><div></div></div> | <div><div>Rev</div><div>P01</div></div> | | | |
| | <div><div>Client</div><div>Highways England Major Projects Rge Cube 199 Wharfedale Street Birmingham B1 1RN</div></div> <div><div>Working on behalf of</div><div></div></div> | | | | | | | | |
| | | | | | | | | | |



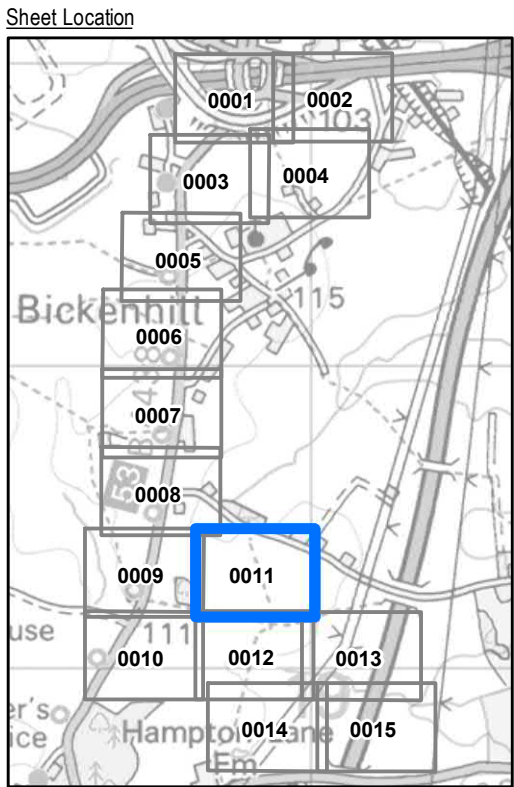
- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
- Utilities**
- ESO Petroleum Company LTD
 - Local High Pressure Mains
 - (11Kv) Underground Western Power Distribution
 - Low Voltage Overhead Western Power Distribution



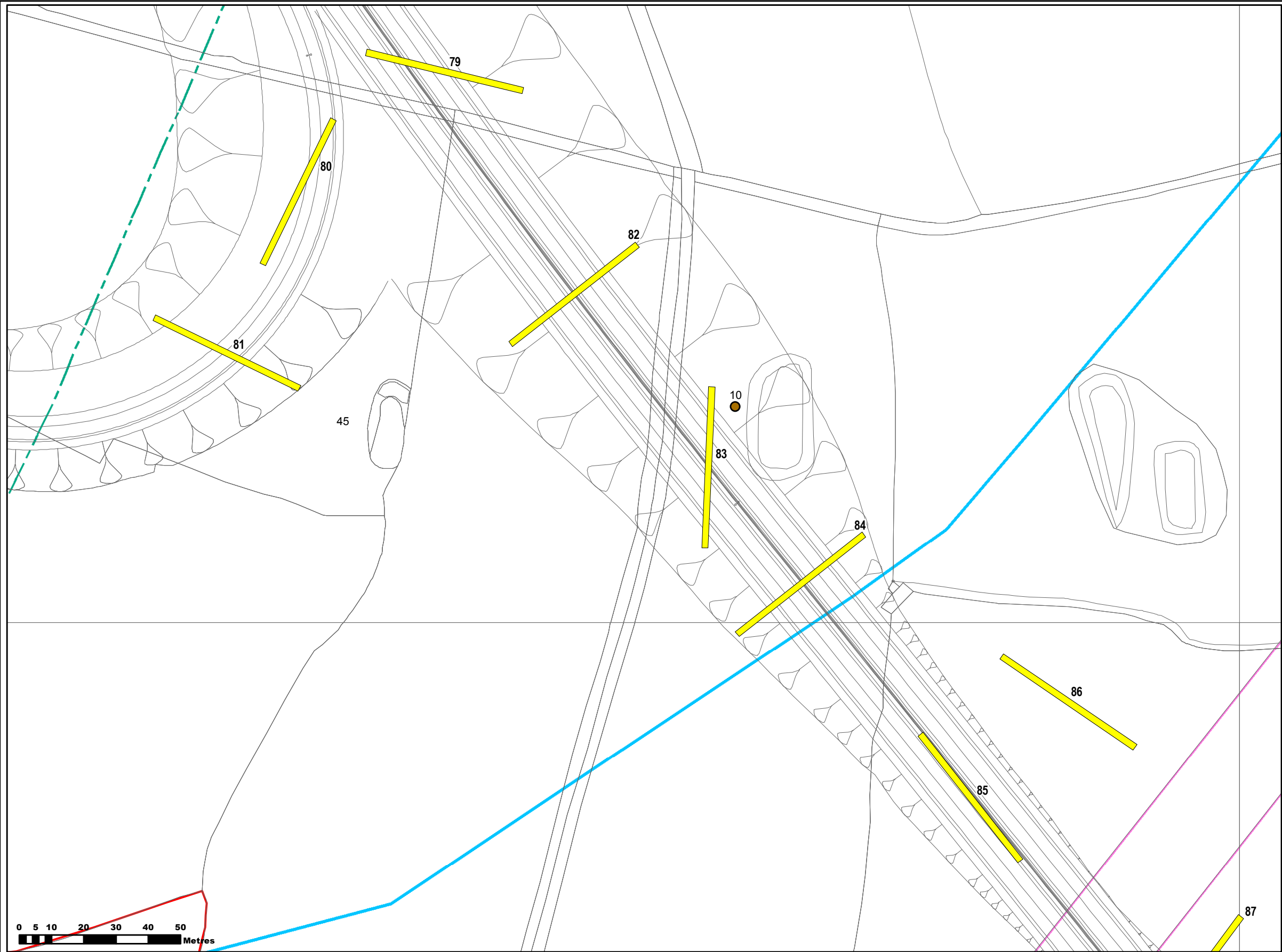
| | | | | | | | | | | |
|--|---|--|--|--|--------------------------------|----------------------------------|-----------------------------------|---|--|----------------------------|
| | <div>Purpose of Issue</div> <div>FOR INFORMATION</div> | <div>Project Title</div> <div>M42 JUNCTION 6</div> | <div>Drawing Title</div> <div>FIGURE 1J ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS</div> | <div>Designed</div> <div>FL</div> | <div>Drawn</div> <div>GB</div> | <div>Checked</div> <div>FL</div> | <div>Approved</div> <div>GC</div> | <div>Date</div> <div>06/08/18</div> | <div>Project Office</div> <div>Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com</div> <div><div>AECOM</div><div>AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP</div></div> | |
| | <div>Internal Project No</div> <div>60543032</div> | | | <div>Suitability</div> <div>S2</div> | | | | | | |
| | <div>Scale @ A3</div> <div>1:1,250</div> | | | <div>Zone</div> <div>M42</div> | | | | | | |
| | <div>THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.</div> | | | | | | | | | |
| | <div><div>Working on behalf of</div><div><div>highways england</div></div></div> | | | | | | | | | |
| | <div>Client</div> <div>Highways England Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN</div> | | | <div>Drawing Number</div> <div>Highways England Pin</div> <div>HE551485</div> <div>ZZ_SW_ZZ_ZZ</div> <div>Location</div> | | | | <div>Originator</div> <div>-ACM</div> <div>-DR-LH-0010</div> <div> Type Role Number</div> | <div>Volume</div> <div>-EHR-</div> <div>P01</div> | <div>Rev</div> <div></div> |



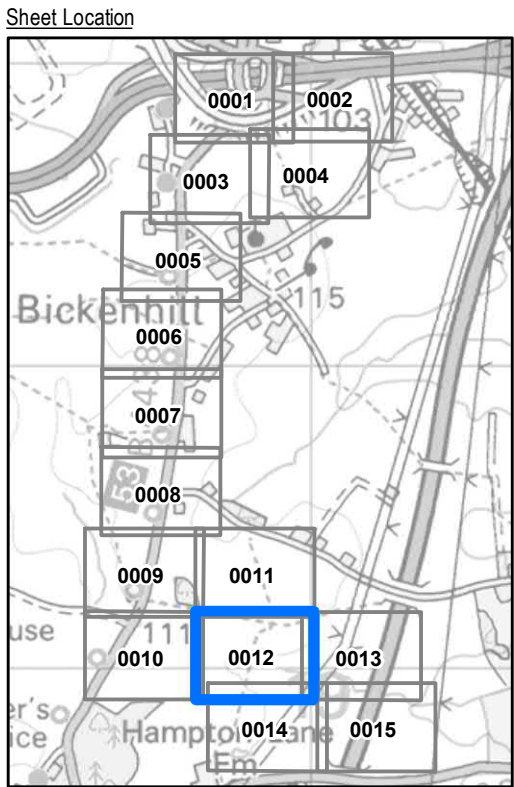
- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - Local Wildlife**
 - rejected (LWS)
 - 500m Buffer From GCN Pond
 - Utilities**
 - Local High Pressure Mains
 - (11Kv) Underground Western Power
 - Low Voltage Underground Western Power Distribution
 - Water Main Severn Trent Water



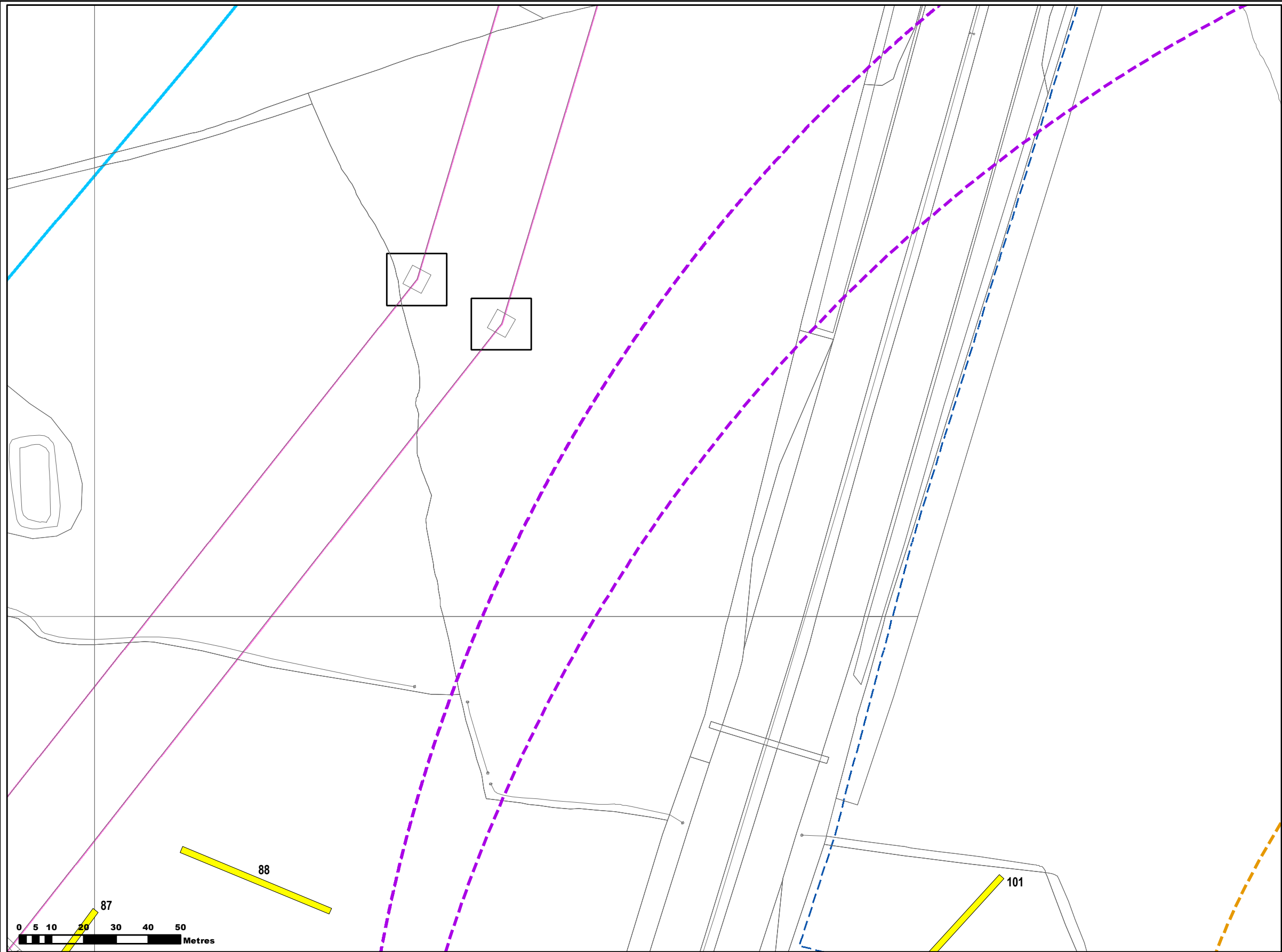
| | | | | | | | | | | | | |
|--|--|---|--|--|-------------|---|----------------|------------------|---|---|---|------------|
| Purpose of Issue FOR INFORMATION | | Project Title M42 JUNCTION 6 | Drawing Title FIGURE 1K ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS | Designed FL Internal Project No 60543032 Scale @ A3 1:1,250 | Drawn GB | Checked FL Suitability S2 Zone M42 | Approved GC | Date 06/08/18 | Project Office Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com | | AECOM AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP | |
| Client Highways England Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN | | Working on behalf of highways england | | THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. | | | | | Drawing Number Highways England Pin HE551485 ZZ_SW_ZZ_ZZ Location | Originator -ACM -DR-LH-0011 Type Role Number | Volume -EHR- -DR-LH-0011 Type Role Number | Rev P01 |



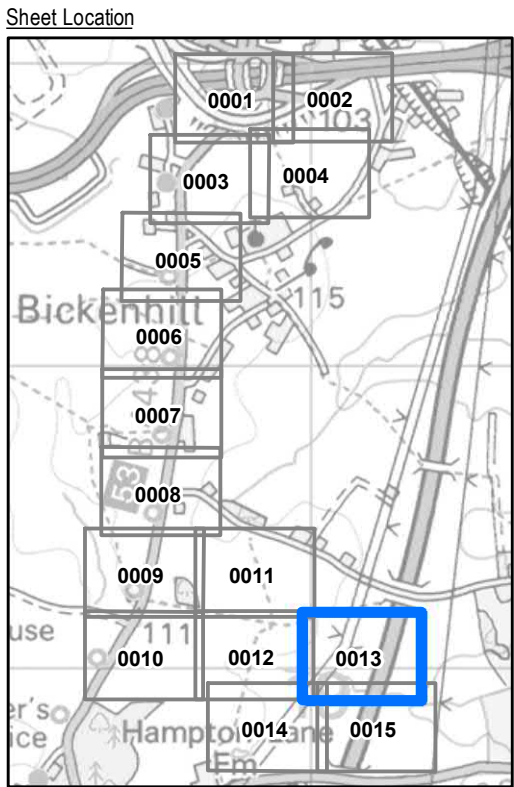
- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - Great Crested Newt Survey
 - Not Surveyed: Pond Dry
 - Utilities
 - Local High Pressure Mains
 - (132Kv) Overhead Western Power Distribution
 - Unconfirmed



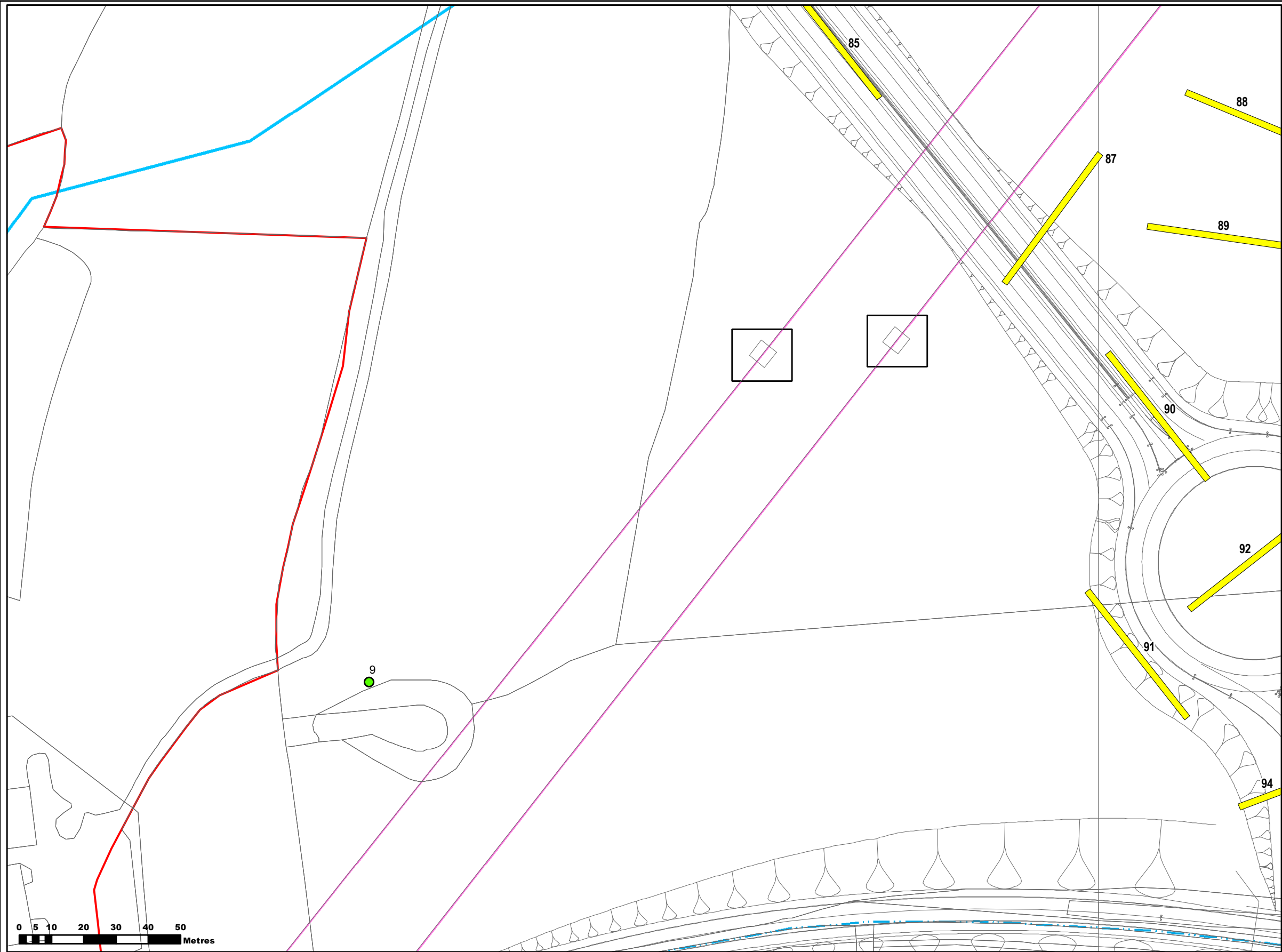
| | | | | | | | | | | |
|--|------------------|--|----------------|---|--|---------------|-------------------|------------------|--|--|
| | Purpose of Issue | Project Title | Drawing Title | Designed FL | Drawn GB | Checked FL | Approved GC | Date 06/08/18 | Project Office Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP | <div><div>AECOM</div><div></div></div> |
| | FOR INFORMATION | Client Highways England Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN | M42 JUNCTION 6 | FIGURE 1L ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS | Internal Project No 60543032 | | Suitability S2 | | | |
| | | | | | Scale @ A3 1:1,250 | | Zone M42 | | | |
| | | | | | THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. | | | | | |
| | | | | | Drawing Number Highways England Pin Originator Volume HE551485 -ACM -EHR- ZZ_SW_ZZ_ZZ -DR-LH-0012 Location Type Role Number | | | | | |



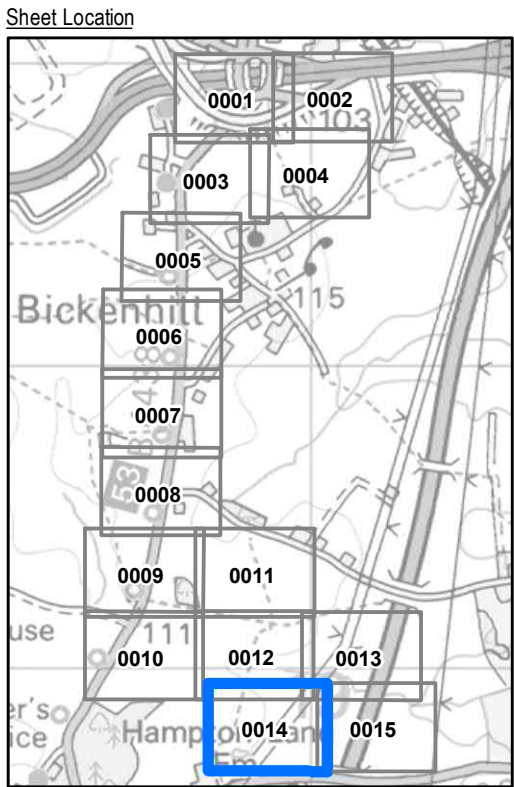
- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - 250m Buffer From GCN Pond
 - 500m Buffer From GCN Pond
- Utilities
- Pylons Western Power Distribution
 - (132Kv) Overhead Western Power Distribution
 - Low Voltage Underground Western Power Distribution
 - Unconfirmed



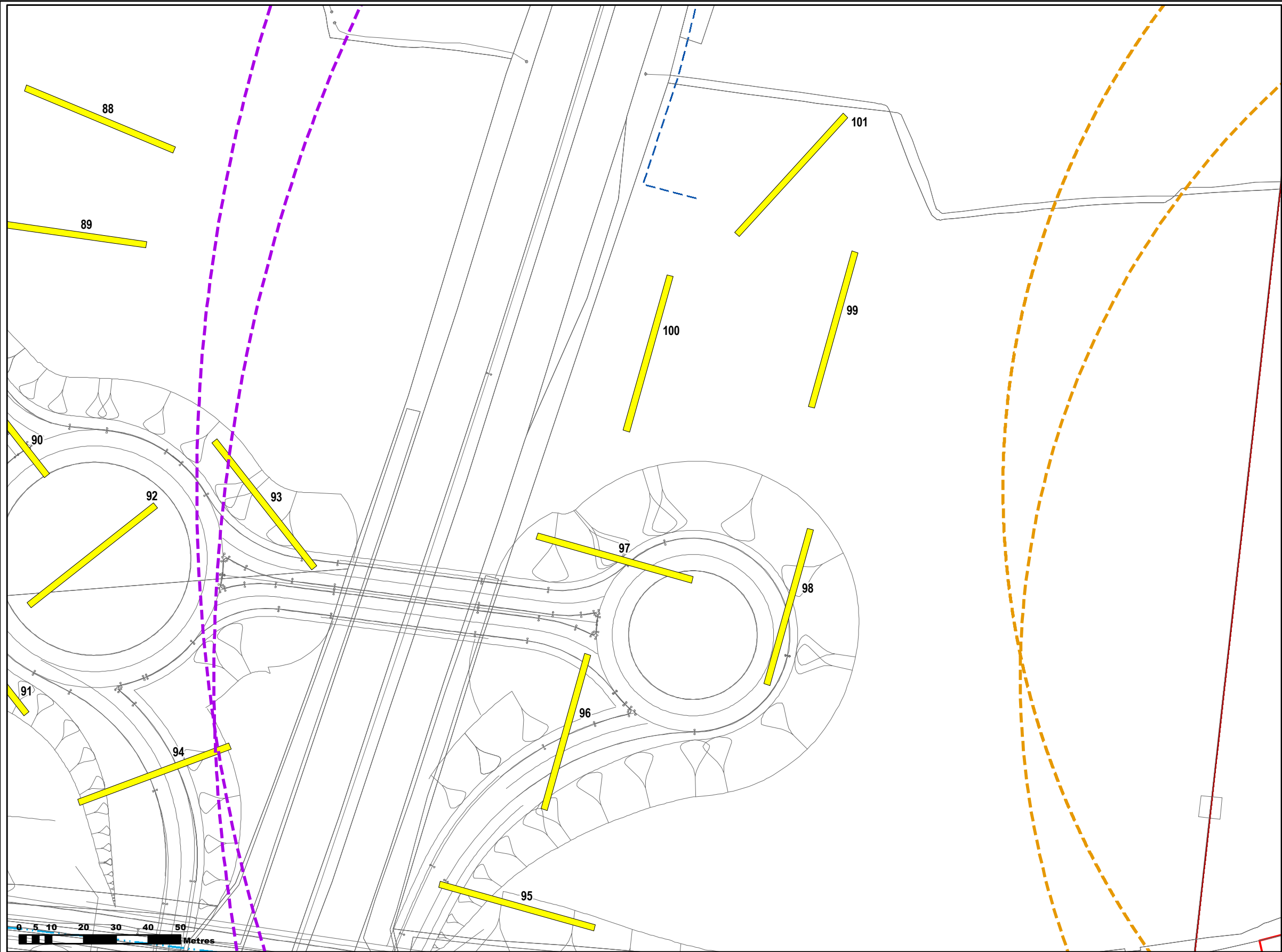
| | | | | | | | | | |
|--|------------------|--|----------------|--|--|---------------|-------------------|------------------|--|
| | Purpose of Issue | Project Title | Drawing Title | Designed FL | Drawn GB | Checked FL | Approved GC | Date 06/08/18 | <div>Project Office</div> <div>Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com</div> <div><div>AECOM</div><div>AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP</div></div> |
| | FOR INFORMATION | Client Highways England Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN | M42 JUNCTION 6 | FIGURE 1M ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS | Internal Project No 60543032 | | Suitability S2 | | |
| | | | | | Scale @ A3 1:1,250 | | Zone M42 | | |
| | | | | | THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. | | | | |
| | | | | Drawing Number Highways England Pin Originator Volume HE551485 -ACM -EHR- ZZ_SW_ZZ_ZZ - DR-LH-0013 Location Type Role Number | | Rev P01 | | | |



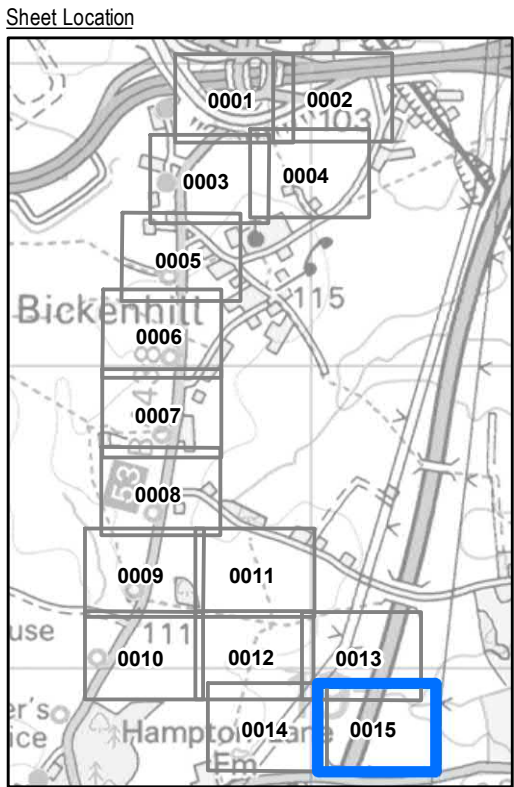
- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
- Great Crested Newt**
- Not Surveyed: Pond Not
- Utilities**
- Pylons Western Power Distribution
 - (132Kv) Overhead Western Power Distribution
 - Unconfirmed
 - Water Main Severn Trent Water




| | | | | | | | | | | | | | | | |
|--|--|----------------|--|---|--|--|--|-----------------------|--|----------------------|--|----------------|--|---|--|
| FOR INFORMATION | | Project Title | | Drawing Title | | Designed FL | | Drawn GB | | Checked FL | | Approved GC | | Date 06/08/18 | |
| Client Highways England Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN | | M42 JUNCTION 6 | | FIGURE 1N ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS | | Internal Project No 60543032 | | Scale @ A3 1:1,250 | | Suitability S2 | | Zone M42 | | Project Office Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com | |
| Working on behalf of | | | | | | THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. | | | | | | | | AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP | |
| | | | | | | Drawing Number Highways England Pin | | Originator -ACM | | Volume -EHR- | | Rev P01 | | | |
| | | | | | | HE551485 | | ZZ_SW_ZZ_ZZ | | -DR-LH-0014 | | | | | |
| | | | | | | Location | | | | Type Role Number | | | | | |



- NOTES
- Proposed Scheme
 - Red Line Boundary
 - 50 x 2m Archaeological Trial
 - 250m Buffer From GCN Pond
 - 500m Buffer From GCN Pond
- Utilities
- Low Voltage Underground Western Power Distribution
 - National Grid Overheadlines
 - Water Main Severn Trent Water



| | | | | | | | | | |
|--|--|----------------|---|--|-------------|-------------------|----------------|------------------|--|
| | Purpose of Issue | Project Title | Drawing Title | Designed FL | Drawn GB | Checked FL | Approved GC | Date 06/08/18 | <div>Project Office</div> <div>Royal Court Basil Close, Chesterfield Derbyshire S41 7SL Tel(01246) 209221 Fax(01246) 209229 www.aecom.com</div> <div><div>AECOM</div><div>AECOM Infrastructure & Environment UK Limited Registered in England Registered number: 880328 Registered office: Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PP</div></div> |
| | FOR INFORMATION | | | Internal Project No 60543032 | | Suitability S2 | | | |
| | Client Highways England Major Projects Rge Cube 199 Wharfside Street Birmingham B1 1RN | M42 JUNCTION 6 | FIGURE 10 ARCHAEOLOGICAL TRIAL TRENCHING WITH ECOLOGICAL CONSTRAINTS | Scale @ A3 1:1,250 | | Zone M42 | | | |
| | <div><div>Working on behalf of</div><div></div></div> | | | THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF AECOM'S APPOINTMENT BY ITS CLIENT. AECOM ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING AECOM'S EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. | | | | | |
| | | | | | | | | | |
| | | | | Drawing Number Highways England Pin | | Originator | | Volume | Rev |
| | | | | HE551485 | | -ACM | | -EHR- | P01 |
| | | | | ZZ_SW_ZZ_ZZ | | - DR-LH-0015 | | | |
| | | | | Location | | Type | | Role Number | |

Appendix A Standards and Guidance

AAI&S 1988 The Illustration of Lithic Artefacts: a guide to drawing stone tools for specialist reports. Association of Archaeological Illustrators and Surveyors Technical Paper 9

AAI&S 1994 The Illustration of Wooden Artefacts: an introduction to the depiction of wooden objects from archaeological excavations. Association of Archaeological Illustrators and Surveyors Technical Paper 11

AAI&S 1997 Aspects of Illustration: prehistoric pottery. Association of Archaeological Illustrators and Surveyors Technical Paper 13

AAI&S n.d. Introduction to Drawing Archaeological Pottery. Association of Archaeological Illustrators and Surveyors, Graphic Archaeology Occasional Papers 1

ACBMG 2004 Draft Minimum Standards for the Recovery, Analysis and Publication of Ceramic Building Material. 3rd edition. Archaeological Ceramic Building Materials Group
<http://www.tegula.freeseerve.co.uk/acbm/CBMGDE3.htm>

ADS 2011 Archaeology Data Service / Digital Antiquity Guides to Good Practice. Archaeology Data Service, University of York <http://guides.archaeologydataservice.ac.uk/g2gp/Main>

AEA 1995 Environmental Archaeology and Archaeological Evaluations. Recommendations concerning the environmental archaeology component of archaeological evaluations in England. Working Papers of the Association for Environmental Archaeology No. 2 <http://www.envarch.net/publications/papers/evaluations.html>

Aitchison, K 2004 Disaster management planning for archaeological archives. IFA Professional Practice Paper 8, Institute of Field Archaeologists, Reading

AML 1994 A Strategy for the Care and Investigation of Finds. Ancient Monuments Laboratory, English Heritage

APABE/EH 2013 Science and the Dead: A guideline for the destructive sampling of human remains for scientific analysis. Advisory Panel on the Archaeology of Burials in England/English Heritage
http://www.archaeologyuk.org/apabe/Science_and_the_Dead.pdf

APABE 2015 Large Burial Grounds. Guidance on sampling in archaeological fieldwork projects. Advisory Panel on the Archaeology of Burials in England, July 2015

BABAO 2010 Code of Ethics. Working-group for ethics and practice. British Association of Biological Anthropology and Osteoarchaeology <http://www.babao.org.uk/index/cms-filesystem-action/code%20of%20ethics.pdf>

BABAO 2010 Code of Practice. BABAO Working-group for ethics and practice. British Association of Biological Anthropology and Osteoarchaeology <http://www.babao.org.uk/index/cms-filesystem-action/code%20of%20practice.pdf>

BABAO 2012 BABAO position statement on methods of reburial of human remains. British Association of Biological Anthropology and Osteoarchaeology <http://www.babao.org.uk/index/reburialissues>

Behre, KE 1981 The interpretation of anthropogenic indicators in pollen diagrams. Pollen et Spores 23, 225-45

Blake, H & P Davey (eds) 1983 Guidelines for the processing and publication of medieval pottery from excavations. Report by a working party of the Medieval Pottery Research Group and the Department of the Environment. Directorate of Ancient Monuments and Historic Buildings Occasional Paper 5, 23-34, DoE, London

Brickley, M & McKinley, JI 2004 Guidelines to the Standards for Recording Human Remains. IFA Professional Practice Paper No. 7, British Association for Biological

Anthropology and Osteoarchaeology and Institute of Field Archaeologists, Reading
<http://www.babao.org.uk/HumanremainsFINAL.pdf>

Brickstock, RJ 2004 The Production, Analysis and Standardisation of Romano-British Coin Reports. English Heritage, Swindon <https://www.historicengland.org.uk/images-books/publications/production-analysis-and-standardisation-of-romano-british-coin/>

Brown, A & Perrin, K 2000 A Model for the Description of Archaeological Archives. Information Management & Collections. English Heritage Centre for Archaeology/Institute of Field Archaeologists, Reading <http://www.english.gov.uk/archives/archdesc.pdf>

Brown, DH 2011 Archaeological Archives: A guide to best practice in creation, compilation, transfer and curation. 2nd edition. Institute of Field Archaeologists/Archaeological Archives Forum (Reading) http://www.archaeologyuk.org/archives/aaf_archaeological_archives_2011.pdf

Buikstra, JE & Ubelaker DH (eds) 1994 Standards for Data Collection from Human Skeletal Remains. Arkansas Archaeological Survey Research Series 44, Fayetteville, Arkansas

ClfA 2014 Code of Conduct. Chartered Institute for Archaeologists, Reading, December 2014 <http://www.archaeologists.net/sites/default/files/node-files/CodesofConduct.pdf>

ClfA 2014 Standard and guidance for the creation, compilation, transfer and deposition of archaeological archives. Chartered Institute for Archaeologists, Reading, December 2014 http://www.archaeologists.net/sites/default/files/node-files/ClfAS&GArchives_0.pdf

ClfA 2014 Standard and guidance for the archaeological investigation and recording of standing buildings or structures. Chartered Institute for Archaeologists, Reading, December 2014 <http://www.archaeologists.net/sites/default/files/node-files/ClfAS&GBuildings.pdf>

ClfA 2014 Standard and guidance for the collection, documentation, conservation and research of archaeological materials. Chartered Institute for Archaeologists, Reading, December 2014 <http://www.archaeologists.net/sites/default/files/node-files/ClfAS&G Finds.pdf>

ClfA 2014 Standard and guidance. Field evaluation. Chartered Institute for Archaeologists, Reading, December 2014 <http://www.archaeologists.net/sites/default/files/node-files/ClfAS&GFieldevaluation.pdf>

ClfA 2014 Standard and guidance. Appendices. Chartered Institute for Archaeologists, Reading, December 2014 <http://www.archaeologists.net/sites/default/files/node-files/ClfAS&GAppendices.pdf>

ClfA 2014 An introduction to providing career entry training in your organisation. ClfA Professional Practice Paper No. 11, Chartered Institute for Archaeologists, Reading http://www.archaeologists.net/sites/default/files/node-files/2014.PPP_.Training-toolkit-web_0.pdf

ClfA 2014 Policy statements (Equal opportunities in archaeology; Health and safety ; The use of volunteers and students on archaeological projects; Environmental protection; Selfemployment and the use of self-employed subcontractors; The use of training posts on archaeological project). Chartered Institute for Archaeologists, Reading <http://www.archaeologists.net/sites/default/files/node-files/PolicyStatements.pdf>

CIRIA 2015 Environmental good practice on site (fourth edition). CIRIA C741. Construction Industry Research and Information Association

Collett, L 2012 An introduction to drawing archaeological pottery. IfA Professional Practice Paper No. 10, Institute for Archaeologists, Reading

Corfield, M, Hinton, P, Nixon, T & Pollard, M (eds) 1998, Preserving Archaeological Remains in situ: Proceedings of the Conference of 1st –3rd April 1996. Museum of London Archaeology Service, London

Davey PJ 1981 Guidelines for the processing and publication of clay pipes from excavations. Medieval and Later Pottery in Wales IV, 65-87

Dawson, A & Hillhouse, S 2011 SPECTRUM 4.0: the UK Collections Management Standard. Collections Trust <http://www.collectionslink.org.uk/programmes/spectrum>

DCMS 2005 Guidance for the Care of Human Remains in Museums. Department for Culture, Media & Sport <http://www.babao.org.uk/index/cms-filesystem-action?file=dcmsguide%20oct%202005.pdf>

DCMS 2011 Protecting, conserving and providing access to the historic environment in England. Department for Culture, Media & Sport <https://www.gov.uk/government/policies/protecting-conserving-and-providing-access-to-the-historic-environment-in-england>

DCMS 2008 Treasure Act 1996 Code of Practice (2nd Revision) England and Wales.
<https://www.gov.uk/government/publications/treasure-act-1996-code-of-practice-2nd-revision-england-and-wales>

EH 1995 A Strategy for the Care and Investigation of Finds. English Heritage Ancient Monuments Laboratory, London

EH 1998 Identifying and Protecting Palaeolithic Remains. Archaeological guidance for planning authorities and developers. English Heritage, London

EH 2000 Managing Lithic Scatters. Archaeological guidance for planning authorities and developers. English Heritage, London <https://www.historicengland.org.uk/images-books/publications/managing-lithic-scatters/>

EH 2003 (Under Review) Twentieth-Century Military Sites. Current approaches to their recording and conservation English Heritage, Swindon <https://www.historicengland.org.uk/images-books/publications/twentieth-century-military-sites/>

EH 2003 (Under Review) Where on Earth Are We? The Global Positioning System (GPS) in archaeological field survey. English Heritage, London <http://historicengland.org.uk/images-books/publications/gps-in-archaeological-field-survey/>

EH 2004 Human Bones from Archaeological Sites: Guidelines for producing assessment documents and analytical report. English Heritage Centre for Archaeology Guidelines <http://www.historicengland.org.uk/images-books/publications/human-bones-from-archaeological-sites/>

EH 2006 Guidelines on the X-radiography of Archaeological Metalwork. English Heritage, Swindon <https://www.historicengland.org.uk/images-books/publications/x-radiography-of-archaeological-metalwork/>

EH 2006 Archaeomagnetic Dating. English Heritage, Swindon <https://www.historicengland.org.uk/images-books/publications/archaeomagnetic-dating-guidelines/>

EH 2006 Science for Historic Industries: Guidelines for the investigation of 17th- to 19th-century industries. English Heritage, Swindon <https://www.historicengland.org.uk/images-books/publications/science-for-historic-industries/>

EH 2007 Geoarchaeology. Using earth sciences to understand the archaeological record. English Heritage, London <https://www.historicengland.org.uk/images-books/publications/geoarchaeology-earth-sciences-to-understand-archaeological-record/>

EH 2008 Luminescence Dating. Guidelines on using luminescence dating in archaeology. English Heritage, Swindon <http://historicengland.org.uk/images-books/publications/luminescence-dating/>

EH 2008 Research and Conservation Framework for the British Palaeolithic. English Heritage/Prehistoric Society, Swindon <https://www.historicengland.org.uk/images-books/publications/research-and-conservation-framework-for-british-palaeolithic/>

EH 2008 Investigative Conservation. Guidelines on how the detailed examination of artefacts from archaeological sites can shed light on their manufacture and use. English Heritage, Swindon <https://www.historicengland.org.uk/images-books/publications/investigative-conservation/>

EH 2008 Guidelines for the Curation of Waterlogged Macroscopic Plant and Invertebrate Remains. English Heritage, Swindon <https://www.historicengland.org.uk/images-books/publications/curation-of-waterlogged-macroscopic-plant-and-invertebrate-remains/>

EH 2010 Waterlogged Wood. Guidelines on the recording, sampling, conservation and curation of waterlogged wood. 3rd edition. English Heritage, Swindon <https://www.historicengland.org.uk/images-books/publications/waterlogged-wood/>

EH 2011 Environmental Archaeology: A guide to the theory and practice of methods, from sampling and recovery to post-excavation. Second edition. English Heritage Centre for Archaeology Guidelines, London <https://www.historicengland.org.uk/images-books/publications/environmental-archaeology-2nd/>

EH 2012 Waterlogged Organic Artefacts: guidelines on their recovery, analysis and conservation. English Heritage <https://www.historicengland.org.uk/images-books/publications/waterlogged-organic-artefacts/>

EH 2013 Science and the Dead. A Guideline for the Destructive Sampling of Archaeological Human Remains for Scientific Analysis. English Heritage/Advisory Panel on the Archaeology of Burials in England
<https://www.historicengland.org.uk/images-books/publications/science-and-dead/>

EH 2014 Animal Bones and Archaeology: Guidelines for Best Practice. English Heritage, Swindon
<http://historicengland.org.uk/images-books/publications/animal-bones-and-archaeology/>

HE 2015 Management of Research Projects in the Historic Environment. The MoRPHE Project Manager's Guide. Historic England, Swindon <https://www.historicengland.org.uk/images-books/publications/morphe-project-managers-guide/>

- MoRPHE Project Planning Note 2 (2006) Developing Controlled Terminology
- MoRPHE Project Planning Note 3 (2008) Archaeological Excavations

HE 2015 (Under Consultation) Preservation in situ, condition assessment and monitoring Historic England guidance. Text only consultation draft. English Heritage, Swindon
<https://content.historicengland.org.uk/content/docs/guidance/preservation-in-situ-condition-assessment-monitoring-text-only-consultation-draft.pdf>

HE 2015 Where on Earth Are We? The Role of Global Navigation Satellite Systems (GNSS) in Archaeological Field Survey. Historic England, Swindon <https://historicengland.org.uk/images-books/publications/where-on-earth-gnss-archaeological-field-survey/>

HE 2015 Piling and Archaeology. June 2015. Historic England, Swindon <https://historicengland.org.uk/images-books/publications/piling-and-archaeology/>

HE 2015 Archaeometallurgy. Historic England, Swindon <http://historicengland.org.uk/images-books/publications/archaeometallurgy-guidelines-best-practice/>

HE 2015 Digital Image Capture and File Storage. Historic England, Swindon <http://historicengland.org.uk/images-books/publications/digital-image-capture-and-file-storage/>

Eiteljorg, H, Fernie, K, Huggett, J & Robinson, D with Thomason, B 2011 'CAD: A Guide to Good Practice', in Archaeology Data Service / Digital Antiquity Guides to Good Practice. Archaeology Data Service, York
http://guides.archaeologydataservice.ac.uk/g2gp/Cad_Toc

FAME 2006 Employment Practice Manual. Federation of Archaeological Managers and Employers

FAME 2006 Health and Safety in Field Archaeology Manual. Federation of Archaeological Managers and Employers

Ferguson, L & Murray, D 1997 Archaeological Documentary Archives. IFA Professional Practice Paper 1, Institute of Field Archaeologists, Reading

Gillings, M & Wise, A 2011 'GIS Guide to Good Practice', in Archaeology Data Service /

Digital Antiquity Guides to Good Practice. Archaeology Data Service, York
http://guides.archaeologydataservice.ac.uk/g2gp/Gis_Toc

Gurney, DA 1985 Phosphate Analysis of Soils: A Guide for the Field Archaeologist. IFA Technical Paper 3, Institute of Field Archaeologists, Reading

Handley, M 1999 Microfilming Archaeological Archives. IFA Professional Practice Paper 2, Institute of Field Archaeologists, Reading

Hodgson, J 2001 Archaeological reconstruction: illustrating the past. IFA Professional Practice Paper 5, Institute of Field Archaeologists, Reading

Longworth, C & Wood, B 2000 Standards in Action Book 3: working with archaeology guidelines. Society of Museum Archaeologists/Museum Documentation Association

Mays, S 1991 Recommendations for Processing Human Bone from Archaeological Sites. Ancient Monuments Lab Report 124/91, London

Mays, S, Brickley, M & Dodwell, N 2004 Human Bones from Archaeological Sites. Guidelines for Producing Assessment Documents and Analytical Reports. Centre for Archaeology Guidelines, English Heritage, Portsmouth <https://www.historicengland.org.uk/images-books/publications/human-bones-from-archaeological-sites/>

McKinley, JI & Roberts, C 1993 Excavation and Post-excavation Treatment of Cremated and Inhumed Human Remains. Institute of Field Archaeologists Technical Paper No. 13, Reading

MGC 1992 Standards in the Museum Care of Archaeological Collections. Museums and Galleries Commission <http://www.collectionslink.org.uk/discover/site-information/484-standards-in-the-museum-care-of-archaeological-collections>

MPRG 2000 A Guide to the Classification of Medieval Ceramics. Medieval Pottery Research Group Occasional Papers No. 1

MPRG 2001 Minimum Standards for the Processing, Recording, Analysis and Publication of Post-Roman Ceramics. Medieval Pottery Research Group Occasional Paper No. 2
<http://www.medievalpottery.org.uk/docs/Standards.pdf>

Murphy, PL & Wiltshire, PEJ 1994 A Guide to Sampling Archaeological Deposits for Environmental Analysis. English Heritage, London

Nixon, T (ed) 2004 Preserving Archaeological Remains in situ. Proceedings of the 2nd Conference, 12–14 September 2001. Museum of London Archaeology Service (London)

Owen, J 1995 Towards an Accessible Archaeological Archive. The Transfer of archaeological archives to museums. Guidelines for use in England, Northern Ireland, Scotland and Wales. Society of Museum Archaeologists <http://www.socmusarch.org.uk/docs/towardsaccessiblearchive.pdf>

Payne, A 2011 'Laser Scanning for Archaeology: a guide to good practice', in Archaeology Data Service/ Digital Antiquity Guides to Good Practice. Archaeology Data Service, York
http://guides.archaeologydataservice.ac.uk/g2gp/LaserScan_Toc

Paynter, S & Dungworth, D 2011 Archaeological Evidence for Glassworking. English Heritage, London
<https://www.historicengland.org.uk/images-books/publications/glassworkingguidelines/>

PCRGR 2010 The Study of Later Prehistoric Pottery: General policies and guidelines for analysis and publication (3rd edition). Prehistoric Ceramics Research Group Occasional Papers 1 & 2

Phillips, T & Creighton, J 2010 Employing people with disabilities: good practice guidance for archaeologists. IfA Professional Practice Papers No 9, Institute for Archaeologists, Reading

Philo, C & Swann, A 1992 Preparation of Artwork for Publication. Institute of Field Archaeologists Technical Paper No. 10, Reading

RCHME 2012 MIDAS: the UK Historic Environment Data Standard Version 1.1. Best practice guidelines. Royal Commission on the Historical Monuments of England, Swindon <https://www.historicengland.org.uk/images-books/publications/midas-heritage/>

RFGR & FRG, 1993 Guidelines for the Preparation of Site and Assessments for all Finds other than Fired Clay Vessels. Roman Finds Group and Finds Research Group

Roskams, S & Whyman, M 2005 Yorkshire Archaeological Research Framework: resource assessment. Yorkshire Archaeological Research Framework Forum/English Heritage
<https://www.historicengland.org.uk/images-books/publications/yorks-arch-res-framework-resource-assessment/yorkshire-resource-assessment.pdf>

Roskams, S & Whyman, M 2007 Yorkshire Archaeological Research Framework: research agenda. Yorkshire Archaeological Research Framework Forum/English Heritage. <https://www.historicengland.org.uk/images-books/publications/yorks-arch-res-framework-agenda/yorkshire-research-agenda.pdf>

Schofield, AJ (ed) 1998 Interpreting Artefact Scatters. Oxbow Monograph 4, Oxford SGRP 1994 Guidelines for the Archiving of Roman Pottery. Study Group for Roman Pottery
<http://www.romanpotterystudy.org/SGRPPublications/GuidelinesArchivingRomanPot.pdf>

SMA 1997 Selection, Retention, Dispersal of Archaeological Finds. Guidelines for use in England, Wales and Northern Ireland (Revised). Society of Museum Archaeologists
<http://www.socmusarch.org.uk/docs/selectionretentiondispersalofcollections1.pdf>

UKIC 1983 Packaging and Storage of Freshly Excavated Artefacts from Archaeological Sites. (United Kingdom Institute for Conservation, Conservation Guidelines No 2)

UKIC 1984 Environmental Standards for Permanent Storage of Excavated material from Archaeological Sites. (United Kingdom Institute for Conservation, Conservation Guidelines No 3)

UKIC 1990 Guidance for Conservation Practice. United Kingdom Institute for Conservation

UKIC 1990 Guidelines for the Preparation of Excavation Archives for Long-term Storage. United Kingdom Institute for Conservation Archaeology Section

UKIC 2001 Excavated Artefacts and Conservation. (United Kingdom Institute for Conservation, Conservation Guidelines No 1, revised)

WAC 1989 The Vermillion Accord – Human Remains. Motion Approved at the First Inter-Congress on the Disposal of the Dead. World Archaeology Congress, Vermillion, South Dakota

Watkinson, DE & Neal, V 2001 First Aid for Finds. RESCUE/United Kingdom Institute for Conservation Management

