

An Historic Environment Desk Based Assessment of Land off St. Michael's Avenue, Monk Bretton, South Yorkshire.



ARS Ltd Report 2019/6

February 2019

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Borough Council

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EXECUTIVE SUMMARY

Archaeological Research Services Ltd was commissioned by NPS Barnsley to undertake an Archaeological Desk-Based Assessment (DBA) of Land off St. Michael's Avenue, Monk Bretton, Barnsley. This plot of land has been selected as a housing allocation site within the Barnsley Local Plan (adopted January 2019), and the relevant policy in the Local Plan states: 'Archaeological remains are known/expected to be present on this site therefore proposals must be accompanied by an appropriate archaeological assessment (including a field evaluation if necessary) that must include the following: Information identifying the likely location and extent of the remains, an assessment of the significance of the remains; and consideration of how the remains would be affected by the proposed development.

Although no significant archaeological remains have been identified within the proposed development area, cropmarks identified within the surrounding landscape indicate that there is the potential for Iron Age/Romano-British remains to be present on the site. Consultation with the South Yorkshire Archaeology Service (SYAS) has confirmed that there will be a requirement for a further phased scheme of evaluation fieldwork in the form of an initial geophysical survey (where possible) and a subsequent phase of evaluation trenching to be carried out in accordance with a Written Scheme of Investigation to be approved by SYAS. The results of these investigations can be used to determine what, if any, further archaeological works may be required to mitigate the impacts of the proposed development.

TABLE OF CONTENTS

1	INTRODUCTION	1
1.1	Project and Planning Background	1
1.2	Site description	1
1.3	Geology.....	2
2	AIMS AND OBJECTIVES.....	2
3	METHOD STATEMENT	3
3.1	Methodological Background	3
3.2	Study Area.....	3
3.3	Information Sources	3
4	BASELINE DATA.....	4
4.1	Archaeological and Historical Background.....	4
4.1.1	The Prehistoric Period	4
4.1.2	The Iron Age and Romano-British Periods.....	5
4.1.3	The Medieval Period.....	6
4.1.4	The Post-Medieval Period.....	6
4.1.5	The Modern Period.....	7
4.2	Designated Assets	8
4.3	Non-Designated Assets	8
4.3.1	Archaeological Remains.....	8
4.3.2	The Historic Built Environment.....	9
4.3.3	Historic Landscape.....	9
5	ASSESSMENT OF THE SIGNIFICANCE OF AFFECTED HERITAGE ASSETS.....	9
6	ASSESSMENT OF POTENTIAL IMPACTS	10
7	CONCLUSIONS.....	10
8	STATEMENTS AND ACKNOWLEDGEMENTS.....	11
8.1	Publicity, Confidentiality and Copyright.....	11
8.2	Statement of Indemnity.....	11
8.3	Acknowledgements.....	11
9	REFERENCES.....	12
9.1	Primary Sources	12
9.2	Secondary Sources	12

LIST OF TABLES

Table 1: Designated assets within the wider study area 8
Table 2: HEC types Located within the PDA 9

LIST OF APPENDICES

Appendix 1: Gazetteer of Archaeological Remains 14
Appendix 2: Gazetteer of The Historic Built Environment 16
Appendix 3: Gazetteer of HLC Types 17
Appendix 4: Gazetteer of Archaeological Investigations..... 20
Appendix 5: Historic England Archives AP Cover search and analysis 22
Appendix 6: Groundsure Historic Mapping report..... 29
Appendix 7: Figures..... 54
Appendix 8: Photographs..... 62

1 INTRODUCTION

1.1 Project and Planning Background

Archaeological Research Services Ltd was commissioned by NPS Barnsley to undertake an Archaeological Desk-Based Assessment (DBA) of Land off St. Michael's Avenue, Monk Bretton, Barnsley. This plot of land has been selected as a housing allocation site within the Barnsley Local Plan (adopted January 2019), and the relevant policy in the Local Plan states:

Site HS22 Land at St Michaels Avenue Indicative number of dwellings 38

Archaeological remains are known/expected to be present on this site therefore proposals must be accompanied by an appropriate archaeological assessment (including a field evaluation if necessary) that must include the following:

- ◆ *Information identifying the likely location and extent of the remains, and the nature of the remains;*
- ◆ *An assessment of the significance of the remains; and*
- ◆ *Consideration of how the remains would be affected by the proposed development.*

This DBA will contribute to achieving these aims.

1.2 Site description

The 'red line boundary' of the proposed development area (hereafter 'PDA') is depicted by a red polygon on Figure 1, and is c.1.2ha in area, centred at NGR SE 36749 08706. The PDA occupies a north-west facing slope which descends from a high point of c.76.5m above Ordnance Datum (aOD) at the easternmost corner (Photograph 20) to c.69m aOD at the north-west (Photographs 2-3).

The PDA comprises two agricultural fields that are parallel to each other aligned north-west to south-east and separated by fencing and a line of trees (Photographs 1-20). Both fields are currently being utilised as pasture for horses.

The western field (hereafter 'Field 1') is generally featureless apart from the presence of post and wire fencing used to create a small paddock in the south-eastern part of the field (Photograph 5), and a buried wall foundation running parallel to, and a short distance from, the post and wire fence that forms the western boundary to the field (Photograph 4). The eastern field (hereafter 'Field 2') is dominated by a large elongated mound of dumped material approximately 75m long and 12m wide, with a maximum height of c.2.5m (Photographs 13-16; Figures 9-10). A small fenced-off paddock occupies the south-western area of this field (Photograph 9) and another fenced off area occupies the eastern corner of the field (Photographs 18; 20) where two metal containers are located which are used for stabling horses (Photograph 19).

The PDA is bounded to the north-west by hedgerow which separates the PDA from an agricultural field with Carlton Industrial Estate beyond (Photographs 1-2), to the north-east by properties on St. Michael's Avenue (Photographs 17-18; 20), to the south-east by the curtilages of properties on Preston Way (Photographs 8-9; 16), and to the southwest by a field boundary fence-line with another agricultural field beyond (Photographs 3-5).

1.3 Geology

The underlying solid geology of the north-western part of the PDA comprises *Mudstone, Siltstone and Sandstone* of the *Pennine Middle Coal Measures Formation*, a sedimentary bedrock formed approximately 310 to 315 million years ago in the Carboniferous Period when the local environment was dominated by rivers. The underlying solid geology of the south-western part of the PDA comprises *Oaks Rock sandstone* which is also a sedimentary bedrock formed approximately 310 to 315 million years ago in the Carboniferous Period. No overlying superficial deposits are recorded (BGS 2019).

The soils of the PDA are classified as belonging to the BARDSEY Soil Association (713a), which are cambic stagnogley soils, which have a distinct topsoil and occur widely in lowland England over tills and soft argillaceous rocks (SSEW 1983b, 5). These soils form over Carboniferous mudstone with interbedded sandstone, and are characterised as '*Slowly permeable seasonally waterlogged loamy over clayey and fine silty soils over soft rock. Some well drained coarse loamy soils over harder rock*' (SSEW 1983b, 17). There is a relatively large deposit of 'made ground' within Field 2, comprising a grassed-over soil bund. This appears to be a continuation of the bund that has been created on the eastern side of the Carlton Industrial Estate immediately to the north of the PDA (Figure 10).

2 AIMS AND OBJECTIVES

The principal aims of this assessment are to produce a report detailing any archaeological potential of the PDA, and to assess the potential impacts of the proposed development upon any buried and upstanding archaeological remains, historic buildings, the historic landscape and to assess their significance. The following objectives will contribute towards accomplishing this aim:

- ◆ To collate and assess existing information about the historic environment within the study area and to determine as fully as possible from the available evidence the nature, survival, quality, extent and importance of any archaeological remains and any upstanding buildings/structures within the PDA.
- ◆ To provide an assessment of areas of archaeological potential and survival based on the above research and assess the potential for the use of particular investigative techniques in order to aid the formulation of any necessary mitigation strategy, including further evaluation, excavation, and/or preservation of archaeological remains.
- ◆ To assess, where possible from the available sources, the extent of any ground disturbance associated with any previous intrusive development.

3 METHOD STATEMENT

3.1 Methodological Background

The DBA was undertaken in accordance with the guidelines set out in The Chartered Institute for Archaeologists' *Standards and Guidance for Historic Environment Desk Based Assessment* (CIfA 2014), and *Model Brief for Archaeological Desk-Based Assessment* provided by South Yorkshire Archaeology Service (SYAS 2014), and in accordance with Government policy on the historic environment contained within the National Planning Policy Framework (NPPF).

The approach to the assessment of significance is that set out in *Conservation Principles* (English Heritage 2008), which states that the significance of heritage assets derives from the 'heritage values' that they possess, which may be *evidential*, *historical* (either *illustrative* or *associative*), *aesthetic* or *communal*. Reference is also made to 'heritage significance' as described in the NPPF, which is defined as the '*value of a heritage asset to this and future generations because of its heritage interest. That interest may be archaeological, architectural, artistic or historic. Significance derives not only from a heritage asset's physical presence, but also from its setting*' (DCLG 2012, 56).

3.2 Study Area

The study area adopted for this assessment comprises a 1km off-set from the red-line boundary of the PDA. The extent of the 1km study area is depicted by a dark blue polygon on Figures 1-5 and 7.

3.3 Information Sources

The following sources of information were consulted to inform this assessment:

- ◆ The South Yorkshire Sites and Monuments Record (SYSMR) for information regarding known archaeological remains, Historic Landscape Characterisation, and previous archaeological investigations within the study area.
- ◆ The National Record of the Historic Environment (NRHE) maintained by Historic England Archives at Swindon for information regarding archaeological assets and investigations collated at a national level, an air photographic cover search and copies of air photographs (APs).
- ◆ The online National Heritage List for England (NHLE) maintained by Historic England for information regarding designated assets, as well as their downloadable GIS datasets of Scheduled Monuments, Listed Buildings, Registered Parks and Gardens of Historic Interest, Registered Battlefields, World Heritage Sites and Heritage Assets at Risk.
- ◆ Sheffield Archives and Local Studies Library for any documents or literature relevant to the study area.
- ◆ Barnsley Archives and Local Studies Library for any documents or literature relevant to the study area.

- ◆ A Groundsure Insights Report for historical Ordnance Survey (OS) mapping (Appendix 6).
- ◆ The British Geological Survey onshore digital maps at 1:50 000 scale (DiGMapGB-50-WMS).
- ◆ The Soil Survey of England and Wales 1:250 000 Soil Map and Legend.
- ◆ Any other relevant books and journals that have been identified in the course of the data collection.
- ◆ A walkover survey to validate the results of the baseline data collection, to identify whether hitherto unrecorded sites may survive within the development area and to assess present land-use and conditions. This was undertaken in fine weather on 18th January 2019.

4 BASELINE DATA

4.1 Archaeological and Historical Background

4.1.1 The Prehistoric Period

The activity of Palaeolithic and Mesolithic populations is intrinsically difficult to detect in the archaeological record, although flint artefacts, evidence for ephemeral activities such as hearths and post-built structures, faunal remains and palaeoenvironmental information provide indicators of human activity during these periods. South Yorkshire is towards the northern extent of known European Late Palaeolithic activity, and is an area, in and around which, some of the few examples of such sites dating to this period have been found, all of which date to the period following the Devensian Glaciation (Manby *et al* 2003, 31). There are no known Palaeolithic or Mesolithic findspots within the 1km study area surrounding the PDA, the nearest being a Mesolithic flint scatter identified eroding out of a south-facing slope c.0.6km to the south-east of the study area at Barnsley (SYSMR 00582/01).

There is limited evidence for Neolithic settlement in South Yorkshire, although the continued production of lithic artefacts, the onset of pottery production, and the construction of funerary and ceremonial monuments means that this period has a greater archaeological visibility than those which preceded it. The Neolithic monuments that are known in South Yorkshire are mainly located on the Magnesian Limestone some distance from the study area, such as the long cairns at Sprotborough and at Edlington Wood c.16km and 21km to the south-east respectively (Manby *et al.* 2003, 97). There are no known Neolithic sites or findspots recorded within the 1km study area, but a leaf-shaped arrowhead (SYSMR 03027/01) and a polished stone axe head of Neolithic date (NRHE 620553) are known to have been provenanced from the vicinity of Monk Bretton.

There is also a paucity of evidence for Bronze Age activity in South Yorkshire compared with the wider region, and there has been a noteworthy failure to identify features thought to date from the period from air photographs (Roberts *et al.* 2010, 40). There are dense distributions of Beaker finds from the Yorkshire Wolds to the north of the study area, with outliers on the Tabular Hills, Cleveland Hills, Magnesian Limestone belt north of South

Yorkshire and in the Craven uplands (Manby *et al.* 2003). Similarly, to the south-west of the study area on the Millstone Grit of the eastern Peak District of Derbyshire, there is a concentration of Bronze Age remains such as barrows, field systems, stone circles and ring cairns (Barnatt 2000). Despite this dearth of Bronze Age material, there is a growing corpus of identified Bronze Age barrows in the region, and Beaker finds from Rossington and collared urn burials at Doncaster hint at more widespread activity in the surrounding area (Roberts *et al.* 2010, 40). Nevertheless, there are no known Bronze Age sites or findspots within the study area or its environs.

4.1.2 The Iron Age and Romano-British Periods

There is a larger corpus of Later Iron Age sites in the South Yorkshire region which evidences the presence of agricultural communities that were living in dispersed enclosed farmsteads with appended nucleated fields. This extensive network of cropmarks was first identified in the 1970s by air photography (Riley 1980) continuing across West and South Yorkshire and southwards into north Nottinghamshire. Although the rarity of local Iron Age pottery styles precludes any fine grained dating of these settlement areas, it is thought that these enclosures and field systems have their origins in the Late Iron Age, but continued to be used and expanded throughout the Roman period. It is considered that the arrival of the Romans resulted in negligible change to the native way of life of the Brigantian and Corieltavian tribes of the region, and there is no evidence of significant adoption of Roman material culture until the later Roman period (Roberts *et al.* 2010, 55).

Settlement enclosures and field systems of the Late Iron Age and Romano-British periods are the most common component of the archaeological record of the wider region (Roberts *et al.* 2010, 55), and the evidence from the vicinity of the study area is consistent with this pattern. Air photo (AP) analysis has identified a cropmark enclosure of likely Iron Age/Romano-British date within the study area itself at Oakland Drive, c.750m to the south of the PDA (SMR 5001), and possible late prehistoric or Roman field boundaries were also identified c.250m to the north-east of the PDA, one of which is oriented towards the PDA (Deegan 2001; see purple polygon on Figure 2 for the extent of the mapped cropmarks at this location). However, AP and lidar analysis undertaken as part of this assessment concluded that the cropmarks to the north-east of the PDA are likely to be modern features (see Appendix 5). The earlier AP assessment also identified a larger cropmark complex thought to date from the Late Iron Age/Romano-British period comprising a field system, lane and a hollow way c.2km to the south east of the PDA on the east side of Lundwood (SMR 03809/01). A Roman coin from Nero's reign (54-68 AD) was also discovered on the cricket pitch at Monk Bretton, just beyond the edge of the 1km study area to the south-west (SMR 58501).

A well that was dedicated to St. Helen in the medieval period is located c.875m to the west of the PDA (SMR 03676/01), and it has been noted that a number of South Yorkshire sites with this dedication may have developed from earlier sites associated with the British goddess Elen who was connected with sacred water sources, and therefore this may indicate that this was a sacred site during the late prehistoric and/or Romano-British period, although this remains conjectural (Stenton 2009, 8). The placename Monk Bretton is also indicative of British activity, deriving from *Brettas* and *tūn* or 'farmstead of the Britons' (Smith 1961, 273).

4.1.3 The Medieval Period

As noted above, it appears that there was already native settlement activity at Monk Bretton when the Saxons arrived in the early medieval period, but apart from this placename evidence, there is no physical evidence for early medieval activity within the study area. The Domesday survey records that at the time of the Norman Conquest, Wulmær held 1½ carucates of land at Monk Bretton, but it was waste (i.e. the crops had probably been burnt to the ground and the settlement largely destroyed as part of the harrying of the North) by 1086 when Ilbert de Lacy held it (Williams and Martin 1992, 825).

The prefix 'Monk' was used to differentiate the settlement from another native British settlement at West Bretton, some 9km to the north-west, and this prefix derived from the presence of a Priory which was established by Adam Fitz-Swane around 1154 as the Priory of St. Mary Magdelene of Lund. This was located some 1.75 km to the south-west of Monk Bretton itself at Lundwood, and more than 2km to the south of the PDA, but the land holding was extensive and may have included the PDA. A chapel associated with the Priory was constructed in the 13th century adjacent to the aforementioned St. Helen's Well, c.830m to the west of the PDA, and the Priory charged a fee from visitors to the well. A medieval standing cross located at Monk Bretton c.920m to the south-west of the PDA which is both a Scheduled monument and Grade II Listed Building (NHLE 1013786/NHLE 1151147) was also likely to have been erected at the behest of the Priory. The only other known medieval remains within the study area comprise an area of ridge and furrow located at the Miner's Welfare ground c.730m to the south-west of the PDA (SMR 4749), and further discrete areas of ridge and furrow at Lundwood towards the south-eastern edge of the study area (SMR 5004). AP analysis undertaken to inform this assessment has also identified numerous other areas of ridge and furrow within the study area, some of which is likely to be of medieval date (see Appendix 5).

The PDA is located some distance to the north-east of the medieval settlement core and to the east of St. Helen's Chapel and is likely to have been in agricultural use during the medieval period. To the east of Fish Dam Lane the former fields either side of Far Field Lane comprised strip fields which clearly fossilised the former strips of the open fields, and this pattern also continues to the west of Fish Dam Lane. This indicates that the PDA was likely to have been part of Monk Bretton's open field system during the medieval period, and therefore it is considered that the potential for important medieval remains to be present is low, although the possibility that buried furrows of local significance might be present beneath the topsoil should not be discounted.

4.1.4 The Post-Medieval Period

The earliest map to depict the study area in any detail is Jeffreys' map of Yorkshire from 1771 (Figure 5). This depicts the road c.150m to the east of the PDA (Fish Dam Lane) which runs northwards from Monk Bretton to the settlement at Carlton. A trackway is also depicted running westwards from this road, branching off just to the north of the PDA, although the course of the track beyond this junction is not illustrated. St. Helen's Well is also depicted by a building, indicating that the St. Helen's Chapel was still standing at this time.

The Monk Bretton Parliamentary Enclosure Act was passed in 1778, but unfortunately no map survives, so it is not clear as to whether the fields within which the PDA is located were enclosed at this time. However, Fairbanks' 'A map of the estate of Gideon Phillips occupied by John Crabtree' from 1788 (Figure 6) does illustrate that fields surrounding the PDA had been enclosed, and also depicts part of the field boundary that divides the PDA, so it is likely that these fields were enclosed as a result of the Act, if not before. The South Yorkshire Historic Environment Characterisation description for the PDA and the surrounding area to the north notes that this area 'may have been an area of assarted woodland or common as the field boundaries were quite irregular and sinuous', however, as noted above, the fields within which the PDA is located conform more closely to the strip fields that formerly occupied the areas to the south, east and west, and so were more likely to have been enclosed from the open town fields.

The next available map to depict the study area is the Ordnance Survey (OS) Old Series map of 1840 (Figure 7) which names the Lane skirting the northern edge of the PDA as 'Lamb Lane', and 'Fish Dam Lane' is also named. This map also depicts the Barnsley Canal which had been authorised in 1793 to take the coal reserves at Barnsley to a wider market (NRHE 1033569).

The OS 1st and 2nd edition maps from 1854 and 1894 (Figure 8) clearly depict the strip fields within which the PDA is located, and the possible area of assarting to the north-west of the PDA where the boundaries are more irregular and sinuous. By the time of the latter map the Wharnccliffe Moor Colliery had been sunk just beyond the north-eastern edge of the 1km study area (NRHE 1482034).

A number of post-medieval buildings are recorded on the South Yorkshire SMR and the NHLE within the study area, including the 17th century farmhouse at Manor Farm (SMR 02051/01) and its associated farm buildings (SMR 02051/02) c.975m to the south-west of the PDA which are also Grade II Listed (NHLE 1315010/NHLE 1151148/NHLE 1287051/ NHLE 1287061); the site of the 17th century house called 'The Ridings' at Monk Bretton; and the Grade II Listed Dovecote at Cricket farm (NHLE 1191467) and Osbourne House (NHLE 1191460). Also recorded is the site of Newbridge Bleachworks which was located adjacent to the Barnsley Canal, c.920m to the south of the PDA (SMR 4597).

The NRHE also records the courses of the Cudworth and Barnsley Branch Railway (NRHE 1374590) which opened in 1869 and was closed to passenger traffic in 1959-60, and the Stairfoot Branch Railway which opened in 1885 and closed in 1967, both of which were located c.500m-600m to the east of the PDA.

4.1.5 The Modern Period

All of the OS maps dating from the early 20th century (Appendix 6) illustrate that there was no change within the PDA or its immediate surroundings, which continued to be in agricultural use. However, by the time of the 1966 map a new housing estate had been constructed immediately to the south of the PDA, with properties on Preston Way abutting its southern boundary. By 1974 the estate had been extended northwards and properties on St. Michael's Avenue were depicted abutting the north-eastern boundary of the PDA.

A further major landscape change had occurred by the time of the 1982 OS map, with the construction of the Carlton Industrial Estate to the north of the PDA, which was separated from the housing to the east by a large earthen bund. This bund may have been constructed from colliery spoil from Carlton Colliery which was located immediately to the north-east of the 1km study area, with a spoil heap which had extended to approximately 500m to the north-east of the PDA by 1974, but had disappeared or been landscaped by 1982 when the bund had been constructed. The lidar DTM (Figure 10) illustrates that the bund within the PDA in Field 2 is likely to be the continuation of this bund.

4.2 Designated Assets

On-Site

There are no designated heritage assets within the PDA.

Off-Site

There are seven designated heritage assets within the wider study area, all comprising Grade II Listed Buildings (one of which is also a Scheduled Monument), as detailed in Table 1 below, and illustrated by green triangles and an orange point respectively on Figure 3.

Table 1: Designated assets within the wider study area

NHLE ID	SYSMR ID	NRHE ID	Description
1151147 1013765	00341/01	52390	Market Cross at Junction with High Street (<i>Grade II/Scheduled Monument</i>)
1151148	02051/02	N/A	Farmbuildings Approximately 20 Metres to South of Manor Farmhouse (<i>Grade II</i>)
1191460	N/A	N/A	Osbourne House (<i>Grade II</i>)
1191467	N/A	N/A	Dovecote at Cricket Farm (<i>Grade II</i>)
1287051	02051/02	N/A	Farmbuildings Approximately 20 Metres to North of Manor Farmhouse (<i>Grade II</i>)
1287061	02051/02	N/A	Cartshed Approximately 40 Metres to South of Manor Farmhouse (<i>Grade II</i>)
1315010	02051/01	N/A	Manor Farmhouse (<i>Grade II</i>)

NHLE entries © Historic England

4.3 Non-Designated Assets

4.3.1 Archaeological Remains

On-Site

No archaeological remains are recorded within the PDA by the SYSMR or NRHE.

Off-Site

Within the wider 1km study area the SYSMR records the locations of seven archaeological sites or findspots, as depicted by magenta stars and polygons on Figure 2. The NRHE also records five archaeological sites or areas, as depicted by light blue points, lines and polygons on Figure 3.

Details of the archaeological entries from each of these databases can be found in the gazetteers in Appendix 1, which also provide concordance columns to indicate instances where the entries from the different databases coincide.

4.3.2 The Historic Built Environment

On-Site

There are no non-designated historic built environment elements within the within the PDA.

Off-Site

There are no non-designated historic built environment elements within the within the wider 1km study area.

4.3.3 Historic Landscape

On-Site

The PDA is located within a single Historic Environment Character unit mapped by the South Yorkshire Historic Environment Characterisation Project, and which extends for a much greater area beyond the PDA. Details of this are provided in Table 2 below, and its extent is illustrated on Figure 6. However, it should be noted that the fields within which the PDA is located conform more closely to the strip fields adjacent to the west, south and east rather than the possible assarts to the north.

Table 2: HEC types Located within the PDA

HLC ID	HLC broad type	HLC primary type	Previous type	Details
HSY7622	Industrial	Other Industry	Carlton Industrial Estate, Carlton, BARNSELY CENTRAL, Barnsley	Industrial park built by 1984 maps although some of the development was in place by 1974. There is no legibility of the former irregular enclosures. This may have been an area of assarted woodland or common as the field boundaries were quite irregular and sinuous.

HEC entry © SYAS

Off-Site

Within the wider 1km study area beyond the PDA a further 51 HEC units have been mapped as part of the South Yorkshire Historic Environment Characterisation project. Details of these are provided in the gazetteers in Appendix 4, and they are illustrated on Figure 5.

5 ASSESSMENT OF THE SIGNIFICANCE OF AFFECTED HERITAGE ASSETS

No archaeological remains have been positively identified within the PDA although it is considered that furrows of medieval to post-medieval date could survive as buried features. These possess *evidential value* that can contribute to our understanding of the medieval and post medieval land use of the PDA, but are considered to be of low significance.

The cropmark evidence indicates that the surrounding landscape was populated by dispersed farmsteads and field systems during the Late Iron Age/Romano-British period, and a field boundary thought to date to this period appears to head in the direction of the PDA from the north-east, and therefore there is the potential for buried archaeological remains from this period to be present. Such remains would possess *evidential value* which could contribute to the study of this period, and would therefore be of *archaeological interest* and potential regional significance.

Furthermore, the potential for previously unknown archaeological remains from other periods to survive within the PDA should not be discounted, and any such remains, as with those discussed above, will have significance due to the *evidential* and *archaeological interest* that they could possess. The significance of such assets cannot be quantified or assessed without further field evaluation.

6 ASSESSMENT OF POTENTIAL IMPACTS

Although the detailed design for the proposed development is not yet available, it is clear that the following impacts could result from development within the PDA:

- ◆ Removal or truncation of heritage assets during site clearance (e.g. removal of vegetation, erection of fencing, traffic movement, topsoil stripping).
- ◆ Total destruction of archaeological remains during construction.
- ◆ The removal of elements of the historic landscape resulting in a change of historic landscape character.

It should be noted that there would be no impacts to the settings of any of the designated assets within the study area as these are all located within the settlement of Monk Bretton where the built up nature of the surrounding townscape prevents any intervisibility with the PDA.

All of the hedgerows within the PDA qualify as 'historically important' under the terms of the *Hedgerows Regulations 1997*, as they are an integral part of a field system pre-dating the Enclosure Acts (meaning an Enclosure Act mentioned in the Short Titles Act: the earliest of these was made in 1845), and it is recommended that any changes to these assets should be avoided or minimised. However, should it be necessary to remove any of these hedgerows as part of the development proposals, then there would be a requirement to submit a Hedgerow Removal Notice to the Local Authority, accompanied by a 1:2500 plan depicting the extent of the hedgerow that it is proposed to remove.

7 CONCLUSIONS

Although no significant archaeological remains have been identified within the proposed development area, cropmarks identified within the surrounding landscape indicate that there is the potential for Iron Age/Romano-British remains to be present on the site. Consultation with the South Yorkshire Archaeology Service (SYAS) has confirmed that there will be a requirement for a further phased scheme of evaluation fieldwork in the form of an

initial geophysical survey (where possible) and a subsequent phase of evaluation trenching to be carried out in accordance with a Written Scheme of Investigation to be approved by SYAS. The results of these investigations can be used to determine what, if any, further archaeological works may be required to mitigate the impacts of the proposed development.

8 STATEMENTS AND ACKNOWLEDGEMENTS

8.1 Publicity, Confidentiality and Copyright

Any publicity will be handled by the client. Archaeological Research Services Ltd will retain the copyright of all documentary and photographic material under the Copyright, Designs and Patent Act (1988).

8.2 Statement of Indemnity

All statements and opinions contained within this report arising from the works undertaken are offered in good faith and compiled according to professional standards. No responsibility can be accepted by the author/s of the report for any errors of fact or opinion resulting from data supplied by any third party, or for loss or other consequence arising from decisions or actions made upon the basis of facts or opinions expressed in any such report(s), howsoever such facts and opinions may have been derived.

8.3 Acknowledgements

Archaeological Research Services Ltd would like thank Ben Taylor at NPS Group Barnsley for commissioning this work and arranging access to the site for the walkover survey, Andy Lines (SYAS Archaeologist) for his advice regarding the assessment, Zac Nellist (SYAS Archaeological Records Officer) for providing SMR data, and Sheffield Archives for permission to reproduce images of mapping held in their collection.

9 REFERENCES

9.1 Primary Sources

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APPENDIX 1: GAZETTEER OF ARCHAEOLOGICAL REMAINS

SOUTH YORKSHIRE SMR ENTRIES

SYSMR ID	NRHE ID	NHLE ID	Description
02171/01	N/A	N/A	Site of the Ridings, post-medieval house, Westgate, Monk Bretton "The Ridings" - 17 th century stone house, demolished 1971.
02236/01	N/A	N/A	Site of medieval Chapel of St Ellen, Carlton Chapel of St Helen at St. Helen's Well. Chapel of retiring house for the prior of Monk Bretton, St. Helen's Well was a jointure house of the Wartley's although house in ruins in 1784. Last building of St. Helen's Farm was demolished in 1970's. Site now covered by housing estate.
03676/01	N/A	N/A	St Helen's Well, St Helen's, Barnsley Holy well with reputed healing powers. Chapel dedicated to St Helen was built either over or alongside the well in the 13 th century. Site was associated with Monk Bretton Priory who charged visitors to the well. Site now under housing.
4597	N/A	N/A	Newbridge Bleachworks The works was sited close to Barnsley Canal. It is mentioned in a directory of 1822. Some of the works buildings appear to have survived to at least 1904. The site disappeared beneath the spoil from Monk Bretton Colliery, which material has since been redistributed through the work of landscaping and reclamation
4749	N/A	N/A	Monk Bretton Miners' Welfare Ground, incorporating earlier Ridge and Furrow A park purchased in 1925 by the Miners' Welfare scheme. The park contains the remains of ridge and furrow cultivated land related to medieval or post-medieval Monk Bretton.
5001	N/A	N/A	Oaklands Avenue, Monk Bretton, Cropmark Enclosure Cropmark feature identified from aerial photography, late prehistoric/Roman date.
5004	N/A	N/A	Lundwood Ridge and Furrow Late Medieval/post-medieval ridge and furrow cropmarks identified from air photography.

SMR entries © South Yorkshire Archaeology Service

HISTORIC ENGLAND'S NRHE ENTRIES

NRHE ID	SYSMR ID	NRHE ID	Description
1033569	N/A	N/A	Barnsley Canal Canal authorised 1793, closed 1946. Partly visible as an earthwork, partly destroyed. Canal feeder and reservoir - still extant. (Source: NRHE entry).
1374590	N/A	N/A	Cudworth And Barnsley Branch Railway The Cudworth and Barnsley Branch Railway opened in 1869 and closed to passenger traffic in 1959-1960. The line has been dismantled except for a short section remaining open for mineral traffic between Cudworth North Junction and West Green. (Source: NRHE entry).



**An Historic Environment Desk Based Assessment of Land off St. Michael's Avenue,
Monk Bretton, South Yorkshire.**

NRHE ID	SYSMR ID	NRHE ID	Description
1374613	N/A	N/A	Stairfoot Branch Railway The West Riding Railway's Stairfoot Branch Railway opened from Cudworth South Junction to Stairfoot in 1885, closing in 1967. (Source: NRHE entry).
1482034	N/A	N/A	Wharnccliffe Moor Colliery Site of a colliery, extant by 1870 when it was linked by light railway to both the North Midlands Railway and the Barnsley Railway. 58 miners were killed there in August, 1936 when there was an explosion in the mine. Four banks of coke ovens are shown on the historical OS 25-inch map of 1918. One of the buildings is still extant. (Source: NRHE entry).

NRHE entries © Historic England



APPENDIX 2: GAZETTEER OF THE HISTORIC BUILT ENVIRONMENT

SOUTH YORKSHIRE SMR ENTRIES

SYSMR ID	NRHE ID	NHLE ID	Description
00341/01	52390	1151147	Medieval Standing Cross, Monk Bretton Modern shaft on restored socket stone and steps.
02051/01	N/A	1315010	Farmhouse, Manor Farm, Monk Bretton Manor Farm farmhouse, Monk Bretton - 17 th century stone farmhouse, 2 storeys and attics, little altered. 18th century farmbuilding, some re-used timber framed (TF) material.
02051/02	N/A	1287061	Farm Buildings, Manor Farm, Monk Bretton A number of late 18th century farm buildings at Manor Farm.

SMR entries © South Yorkshire Archaeology Service

HISTORIC ENGLAND'S NRHE ENTRIES

NRHE ID	SYSMR ID	NHLE ID	Description
52390	341	1151147	Medieval Standing Cross, Monk Bretton A Medieval market cross shaft on restored socket stone and steps.

NRHE entries © Historic England



APPENDIX 3: GAZETTEER OF HLC TYPES

SOUTH YORKSHIRE HISTORIC ENVIRONMENT CHARACTER TYPES

HLC ID	Broad Type	HLC Primary type	Name
HSY7553	Enclosed Land	Agglomerated fields	Former strip fields, Cudworth, BARNSLEY CENTRAL, Barnsley
HSY7593	Extractive	Reclaimed Coal Mine	Wharnccliffe Woodmoor Colliery, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7595	Industrial	Other Industry	Glass Recycling plant, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7608	Residential	Planned Estate (Social Housing)	Athersley North and South, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7617	Extractive	Reclaimed Coal Mine	Carlton Main, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7619	Extractive	Reclaimed Coal Mine	Spoil heap, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7620	Extractive	Reclaimed Coal Mine	Spoil heaps and railways, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7621	Residential	Planned Estate (Social Housing)	Wharnccliffe Street, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7622	Industrial	Other Industry	Carlton Industrial Estate, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7623	Industrial	Other Industry	Shawfield Road, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7624	Residential	Semi-Detached Housing	Blakeley Close, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7625	Institutional	School	St Helen's and St Michael's Schools, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7627	Residential	Planned Estate (Social Housing)	Infilling, carlton, BARNSLEY CENTRAL, Barnsley
HSY7628	Institutional	School	Carlton Infant and Junior School, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7629	Enclosed Land	Assarts	Remnant of fields, Carlton, BARNSLEY CENTRAL, Barnsley
HSY7632	Enclosed Land	Agglomerated fields	Former strip fields, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7677	Extractive	Reclaimed Coal Mine	Monk Bretton heaps, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7678	Residential	Planned Estate (Social Housing)	Lundwood, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7681	Residential	Planned Estate (Social Housing)	Fish Dam Lane, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7683	Institutional	School	St Helen's, Monk Bretton, BARNSLEY CENTRAL,



**An Historic Environment Desk Based Assessment of Land off St. Michael's Avenue,
Monk Bretton, South Yorkshire.**

HLC ID	Broad Type	HLC Primary type	Name
			Barnsley
HSY7686	Residential	Private Housing Estate	Park View, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7689	Enclosed Land	Strip Fields	Burton Fields, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7690	Industrial	Glassworks	Redfearn Glass factory, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7691	Industrial	Glassworks	Monk Bretton Junction, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7692	Industrial	Other Industry	Scrap Yard, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7693	Residential	Terraced Housing	Klondyke, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7710	Enclosed Land	Agglomerated fields	Crofts, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7711	Ornamental, Parkland and Recreational	Playing Fields/ Recreation ground	Football and cricket ground, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7712	Extractive	Reclaimed Coal Mine	Former strip fields, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7713	Commercial	Business Park	Burton Road Business Park, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7714	Residential	Private Housing Estate	Pinehall Drive, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7715	Residential	Terraced Housing	Burton Lane, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7716	Residential	Terraced Housing	Monk Terrace, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7717	Residential	Semi-Detached Housing	Semi detached expansion, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7718	Residential	Planned Estate (Social Housing)	Burton Crescent, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7719	Extractive	Reclaimed Coal Mine	Newbridge Bleachworks, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7721	Industrial	Utilities	Covered reservoir, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7722	Ornamental, Parkland and Recreational	Playing Fields/ Recreation ground	Welfare Ground, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7727	Residential	Planned Estate (Social Housing)	Smithies, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7728	Ornamental, Parkland and	Playing Fields/	Smithies playing fields, Monk Bretton, BARNSLEY



**An Historic Environment Desk Based Assessment of Land off St. Michael's Avenue,
Monk Bretton, South Yorkshire.**

HLC ID	Broad Type	HLC Primary type	Name
	Recreational	Recreation ground	CENTRAL, Barnsley
HSY7732	Institutional	School	St Helen's Boulevard, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7733	Commercial	Entertainment Complex	Bowling alley, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7734	Residential	Private Housing Estate	St Helen's farm, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7739	Residential	Private Housing Estate	Clarence Road, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7740	Residential	Planned Estate (Social Housing)	Orchard Close, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7741	Institutional	Religious (Worship)	Methodist Church, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7742	Residential	Villas/ Detached Housing	Houses adjacent to Welfare ground, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7743	Residential	Planned Estate (Social Housing)	Coronation street, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7745	Residential	Private Housing Estate	Historic core, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7746	Residential	Villas/ Detached Housing	Littleworth Lane, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7748	Residential	Planned Estate (Social Housing)	Judy Row, Monk Bretton, BARNSLEY CENTRAL, Barnsley
HSY7749	Residential	Private Housing Estate	Hall Place, Monk Bretton, BARNSLEY CENTRAL, Barnsley

HEC data © South Yorkshire Archaeology Service



APPENDIX 4: GAZETTEER OF ARCHAEOLOGICAL INVESTIGATIONS

SYSMR ID	Description	Organisation	Date
ESY176	<p>Archaeological Evaluation at Crevesford School, Barnsley A geophysical survey was carried out on part of a school playing field. Results indicated probable buried structural remains. Following the production of a desk-based assessment, a small-scale archaeological evaluation was undertaken by ASWYAS in the north-western part of Crevesford School playing fields. The aim of the study was to attempt to identify the location of St. Helen's holy well and its associated medieval chapel and retiring house of Monk Bretton Priory. A total of four trenches were excavated using a mechanical excavator and revealed a cistern and associated drains that may represent the truncated remains of a well arrangement. However, there is no archaeological evidence that can be used unequivocally to support a case for the features being interpreted as a holy well. (Sources: Grey Literature Report: ASWYAS. 2000. St Helen's Well, Crevesford School, Barnsley: Desk-based Assessment and Archaeological Evaluation. Grey Literature Report: ASWYAS. 2001. St Helen's Well, Crevesford School, Barnsley: Desk-Based Assessment and Archaeological Evaluation.)</p>	Archaeological Services - WYAS	2001
ESY203	<p>Geophysical Survey of Cudworth Bypass and West Green Link In April and May 2003 a geophysical (fluxgate gradiometer) survey was conducted for the sections of the proposed Cudworth Bypass and West Green Link. A number of anomalies relating to ridge and furrow ploughing and modern agricultural regimes were identified. At the northern end of the site ditches probably relating to a Romano-British field system and enclosure were located. Additional archaeological works were undertaken to survey ridge and furrow earthworks, two sunken ways and borehole logs. The ridge and furrow has been destroyed since the aerial photographs identifying them were taken (1970's) and the bore hole logs contained no deposits relating to a possible medieval fish pond believed to be situated at Fish Dam Lane. The sunken ways were recorded photographically. (Sources: Grey Literature Report: ASWYAS. 2003. Cudworth Bypass and West Green Link, Barnsley: geophysical Survey. Article in monograph: ASWYAS. 2005. Cudworth Bypass and West Green Link: Additional Archaeological Works.)</p>	Archaeological Services - WYAS	2003
ESY553	<p>Archaeological Evaluation of Land off Pontefract Road In August 2001 a programme of trial trenching was undertaken on land shown to have archaeological potential from a geophysical survey. The features are probably an earlier field system to the present field boundaries and ridge and furrow. No dating evidence was recovered. (Sources: Grey Literature Report: ASWYAS. 2001. Land off Pontefract Road, Lundwood, Barnsley: Geophysical Survey. Grey Literature Report: ASWYAS. Report No.92. Land off Pontefract Road, Lundwood, Barnsley: Archaeological Evaluation.)</p>	Archaeological Services - WYAS	2001
ESY838	<p>Archaeological Trial Trenching at Land off Pontefract Road, Lundwood, Barnsley, South Yorkshire</p>	Archaeological Services -	2001



**An Historic Environment Desk Based Assessment of Land off St. Michael's Avenue,
Monk Bretton, South Yorkshire.**

SYSMR ID	Description	Organisation	Date
	<p>Archaeological Services WAYS was commissioned by Fairclough Homes Ltd to carry out an archaeological evaluation on the site of a proposed residential development at Pontefract Road, Lundwood (planning application reference B/00/1525/BA). The development site covers approximately 3ha and is located at Se 4377 4082. The site is an irregular shape encompassing six fields and is bounded to the east by existing housing and Pontefract Road, to the north by a wire mesh fence, to the west by a drain and to the south by a wall. Each field was separated by a fairly dense hedgerow.</p> <p>The site slopes gently down to the north and west with the slope being more pronounced in the centre of the area. The fields were covered by a mixture of dense scrub, trees and bushes.</p> <p>The geology of the site comprises clay and shales in the west of the site and sandstone in the east, all of Middle Coal measures. The depth of soil cover range from 0.3m on the highest part of the site to about 1.0m at the lowest part.</p> <p>(Source: Grey Literature Report: ASWYAS. 2001. Land off Pontefract Road, Lundwood, Barnsley, South Yorkshire: Archaeological Trial Trenching Interim Report.)</p>	WYAS	
ESY1611	<p>Evaluation trenches for Cudworth Bypass</p> <p>68 evaluation trenches excavated ahead of the construction of Cudworth bypass. A number of ditches were identified and area excavation [ESY1614] was undertaken to investigate these.</p> <p>(Source: Grey Literature Report: ASWYAS. Cudworth and West Green Bypass, Cudworth, South Yorkshire: Archaeological Evaluation and Excavation. Berg, D. & McIntyre, I.)</p>	Archaeological Services - WYAS	2001

SMR entries © South Yorkshire Archaeology Service



APPENDIX 5: HISTORIC ENGLAND ARCHIVES AP COVER SEARCH AND ANALYSIS



HISTORIC ENGLAND
Air Photographs



Historic England

Customer oblique listing - Obliques. Standard Order
Customer enquiry reference number: 117604

Photo reference (NGR and Index number)	Film and frame number	Original number	Date	Film type		Map Reference (6 figure grid)	What can you order?			
							Photocopy	Laser copy	Photographic copy	Digital copy
SE 3609 / 1	AFL 62988 / EAC373534		02 MAY 1979	Colour neg	Unknown	SE 361094	N	N	Y	U
SE 3708 / 1	AFL 62403 / EAW046577		01 SEP 1952	BW Cut Roll Film	5½ "	SE 375086	N	N	Y	U
SE 3708 / 2	AFL 62403 / EAW046578		01 SEP 1952	BW Cut Roll Film	5½ "	SE 375087	N	N	Y	U
SE 3708 / 3	AFL 62403 / EAW046579		01 SEP 1952	BW Cut Roll Film	5½ "	SE 376087	N	N	Y	U
SE 3708 / 4	AFL 62403 / EAW046580		01 SEP 1952	BW Cut Roll Film	5½ "	SE 375087	N	N	Y	U
SE 3708 / 5	AFL 62403 / EAW046581		01 SEP 1952	BW Cut Roll Film	5½ "	SE 375087	N	N	Y	U
SE 3708 / 6	AFL 62403 / EAW046582		01 SEP 1952	BW Cut Roll Film	5½ "	SE 375087	N	N	Y	U
SE 3708 / 7	AFL 62403 / EAW046583		01 SEP 1952	BW Cut Roll Film	5½ "	SE 375087	N	N	Y	U
SE 3708 / 8	AFL 62403 / EAW046584		01 SEP 1952	BW Cut Roll Film	5½ "	SE 375087	N	N	Y	U

Total 9 records

Full single listing - Verticals. Standard order
Customer enquiry reference: 117604

Sortie number	Library number	Camera position	Frame number	Held	Centre point	Run	Date	Sortie quality	Scale 1:	Focal length (in inches)	Film details (in inches)	Film held
RAF/CPE/UK/2399	745	V	5252	P	SE 373 085	10	17 NOV 1947	AB	5000	14	Black and White 8.25 x 7.5	FNH
RAF/CPE/UK/2399	745	V	5253	P	SE 370 084	10	17 NOV 1947	AB	5000	14	Black and White 8.25 x 7.5	FNH
RAF/CPE/UK/2399	745	V	5254	P	SE 367 084	10	17 NOV 1947	AB	5000	14	Black and White 8.25 x 7.5	FNH
RAF/CPE/UK/2399	745	V	5255	P	SE 365 083	10	17 NOV 1947	AB	5000	14	Black and White 8.25 x 7.5	FNH
RAF/CPE/UK/2399	745	V	5256	P	SE 362 083	10	17 NOV 1947	AB	5000	14	Black and White 8.25 x 7.5	FNH
RAF/CPE/UK/2399	745	V	5278	P	SE 372 083	11	17 NOV 1947	AB	5000	14	Black and White 8.25 x 7.5	FNH
RAF/CPE/UK/2399	745	V	5279	P	SE 370 083	11	17 NOV 1947	AB	5000	14	Black and White 8.25 x 7.5	FNH
RAF/CPE/UK/2399	745	V	5280	P	SE 367 083	11	17 NOV 1947	AB	5000	14	Black and White 8.25 x 7.5	FNH
RAF/CPE/UK/2399	745	V	5281	P	SE 364 083	11	17 NOV 1947	AB	5000	14	Black and White 8.25 x 7.5	FNH
RAF/CPE/UK/2399	745	V	5282	P	SE 361 082	11	17 NOV 1947	AB	5000	14	Black and White 8.25 x 7.5	FNH
RAF/541/22	863	RS	4400	P	SE 367 097	8	15 MAY 1948	A	10000	20	Black and White 8.25 x 7.5	NMR
RAF/541/22	863	RS	4402	P	SE 369 083	9	15 MAY 1948	A	10000	20	Black and White 8.25 x 7.5	NMR
RAF/541/22	863	RS	4403	P	SE 361 085	9	15 MAY 1948	A	10000	20	Black and White 8.25 x 7.5	NMR
RAF/541/170	940	RP	3080	P	SE 364 084	2	21 SEP 1948	A	9960	20	Black and White 8.25 x 7.5	NMR
RAF/541/170	940	RP	3081	P	SE 372 084	2	21 SEP 1948	A	9960	20	Black and White 8.25 x 7.5	NMR
RAF/540/505	1164	RP	3006	P	SE 363 093	1	18 MAY 1951	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/540/505	1164	RP	3007	P	SE 367 093	1	18 MAY 1951	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/540/505	1164	RS	4006	P	SE 365 074	4	18 MAY 1951	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/540/505	1164	RS	4007	P	SE 369 074	4	18 MAY 1951	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/82/1015	1586	F21	158	N	SE 369 097	10	07 SEP 1954	AC	10000	20	Black and White 8.25 x 7.5	NMR
RAF/82/1015	1586	F21	159	N	SE 365 097	10	07 SEP 1954	AC	10000	20	Black and White 8.25 x 7.5	NMR
RAF/82/1015	1586	F21	210	N	SE 369 080	12	07 SEP 1954	AC	10000	20	Black and White 8.25 x 7.5	NMR
RAF/82/1015	1586	F21	211	N	SE 362 079	12	07 SEP 1954	AC	10000	20	Black and White 8.25 x 7.5	NMR
RAF/543/9	1785	F22	102	P	SE 372 085	24	19 JUN 1957	A	10500	36	Black and White 8.25 x 7.5	FNH
RAF/543/9	1785	F22	103	P	SE 363 087	24	19 JUN 1957	A	10500	36	Black and White 8.25 x 7.5	FNH
RAF/543/1676	2053	F22	29	N	SE 375 085	5	02 MAR 1962	AC	11000	20	Black and White 8.25 x 7.5	NMR
RAF/543/1676	2053	F22	30	N	SE 368 085	5	02 MAR 1962	AC	11000	20	Black and White 8.25 x 7.5	NMR
RAF/543/1676	2053	F22	31	N	SE 361 086	5	02 MAR 1962	AC	11000	20	Black and White 8.25 x 7.5	NMR
RAF/58/4983	2059	F22	80	P	SE 362 084	19	13 MAR 1962	AB	10000	20	Black and White 8.25 x 7.5	NMR
RAF/58/4983	2059	F22	81	P	SE 362 091	19	13 MAR 1962	AB	10000	20	Black and White 8.25 x 7.5	NMR

HISTORIC ENGLAND
Air Photographs



Historic England

MAL/66044	4563	V	206	P	SE 365 089	4	21 JUL 1966	A	10500	6	Black and White 9 x 9	NMR
MAL/66044	4563	V	207	P	SE 364 079	4	21 JUL 1966	A	10500	6	Black and White 9 x 9	NMR
MAL/67054	4776	V	29	P	SE 375 078	1	13 JUN 1967	A	10500	6	Black and White 9 x 9	NMR
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MAL/67054	4776	V	31	P	SE 375 098	1	13 JUN 1967	A	10500	6	Black and White 9 x 9	NMR
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MAL/71156	5816	V	48	P	SE 368 078	6	23 OCT 1971	A	10000	6	Black and White 9 x 9	NMR
MAL/71156	5816	V	49	N	SE 370 088	6	23 OCT 1971	A	10000	6	Black and White 9 x 9	NMR
MAL/71156	5816	V	50	N	SE 372 096	6	23 OCT 1971	A	10000	6	Black and White 9 x 9	NMR
MAL/72099	6051	V	198	P	SE 362 093	4	21 OCT 1972	A	5000	6	Black and White 9 x 9	NMR
MAL/72099	6051	V	199	P	SE 362 088	4	21 OCT 1972	A	5000	6	Black and White 9 x 9	NMR
MAL/72099	6051	V	200	P	SE 362 084	4	21 OCT 1972	A	5000	6	Black and White 9 x 9	NMR
MAL/72099	6051	V	201	P	SE 362 079	4	21 OCT 1972	A	5000	6	Black and White 9 x 9	NMR
MAL/72099	6051	V	240	P	SE 372 080	5	21 OCT 1972	A	5000	6	Black and White 9 x 9	NMR
MAL/72099	6051	V	241	P	SE 372 085	5	21 OCT 1972	A	5000	6	Black and White 9 x 9	NMR
MAL/72099	6051	V	242	P	SE 372 089	5	21 OCT 1972	A	5000	6	Black and White 9 x 9	NMR
MAL/72099	6051	V	243	P	SE 372 094	5	21 OCT 1972	A	5000	6	Black and White 9 x 9	NMR
MAL/75049	7240	V	117	P	SE 361 091	6	28 JUL 1975	A	10000	6	Black and White 9 x 9	NMR
MAL/75049	7240	V	118	P	SE 360 082	6	28 JUL 1975	A	10000	6	Black and White 9 x 9	NMR
MAL/75049	7240	V	154	P	SE 377 082	7	28 JUL 1975	A	10000	6	Black and White 9 x 9	NMR
MAL/75049	7240	V	155	P	SE 378 091	7	28 JUL 1975	A	10000	6	Black and White 9 x 9	NMR
MAL/79028	7583	V	196	P	SE 361 091	6	27 JUL 1979	A	5000	6	Black and White 9 x 9	NMR
MAL/79028	7583	V	197	N	SE 366 091	6	27 JUL 1979	A	5000	6	Black and White 9 x 9	NMR
MAL/79028	7583	V	198	P	SE 371 091	6	27 JUL 1979	A	5000	6	Black and White 9 x 9	NMR
MAL/79028	7583	V	234	P	SE 375 085	7	27 JUL 1979	A	5000	6	Black and White 9 x 9	NMR
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MAL/79028	7583	V	237	N	SE 360 085	7	27 JUL 1979	A	5000	6	Black and White 9 x 9	NMR
MAL/81028	7722	V	87	P	SE 363 081	10	30 JUL 1981	A	10000	6	Black and White 9 x 9	NMR
OS/73269	11977	V	93	P	SE 362 094	5	07 JUN 1973	A	5600	6	Black and White 9 x 9	NMR
OS/73269	11977	V	94	P	SE 367 094	5	07 JUN 1973	A	5600	6	Black and White 9 x 9	NMR
OS/73269	11977	V	95	P	SE 372 094	5	07 JUN 1973	A	5600	6	Black and White 9 x 9	NMR
OS/73269	11977	V	111	P	SE 370 084	6	07 JUN 1973	A	5600	6	Black and White 9 x 9	NMR
OS/73269	11977	V	112	P	SE 365 084	6	07 JUN 1973	A	5600	6	Black and White 9 x 9	NMR
OS/73269	11977	V	113	P	SE 365 077	7	07 JUN 1973	A	5600	6	Black and White 9 x 9	NMR

HISTORIC ENGLAND
Air Photographs



Historic England

OS/73269	11977	V	114	P	SE 371 078	7	07 JUN 1973	A	5600	6	Black and White 9 x 9	NMR
OS/89185	13509	V	589	P	SE 357 082	1	17 MAY 1989	A	5800	12	Black and White 9 x 9	NMR
OS/89185	13509	V	590	P	SE 357 087	1	17 MAY 1989	A	5800	12	Black and White 9 x 9	NMR
OS/89185	13509	V	601	P	SE 365 094	2	17 MAY 1989	A	5800	12	Black and White 9 x 9	NMR
OS/89185	13509	V	602	P	SE 365 089	2	17 MAY 1989	A	5800	12	Black and White 9 x 9	NMR
OS/89185	13509	V	603	P	SE 366 083	2	17 MAY 1989	A	5800	12	Black and White 9 x 9	NMR
OS/89185	13509	V	604	P	SE 366 078	2	17 MAY 1989	A	5800	12	Black and White 9 x 9	NMR
OS/89185	13509	V	683	P	SE 374 084	3	17 MAY 1989	A	5800	12	Black and White 9 x 9	NMR
OS/89185	13509	V	684	P	SE 374 088	3	17 MAY 1989	A	5800	12	Black and White 9 x 9	NMR
OS/97529	15274	V	172	N	SE 368 081	6	30 APR 1997	A	7900	12	Black and White 9 x 9	NMR
OS/97529	15274	V	173	N	SE 362 081	6	30 APR 1997	A	7900	12	Black and White 9 x 9	NMR
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OS/97529	15274	V	233	N	SE 362 093	8	30 APR 1997	A	7900	12	Black and White 9 x 9	NMR
OS/03006	24041	V	339	N	SE 362 087	4	07 APR 2003	A	8000	12	Colour 9 x 9	NMR
OS/03006	24041	V	340	N	SE 369 086	4	07 APR 2003	A	8000	12	Colour 9 x 9	NMR
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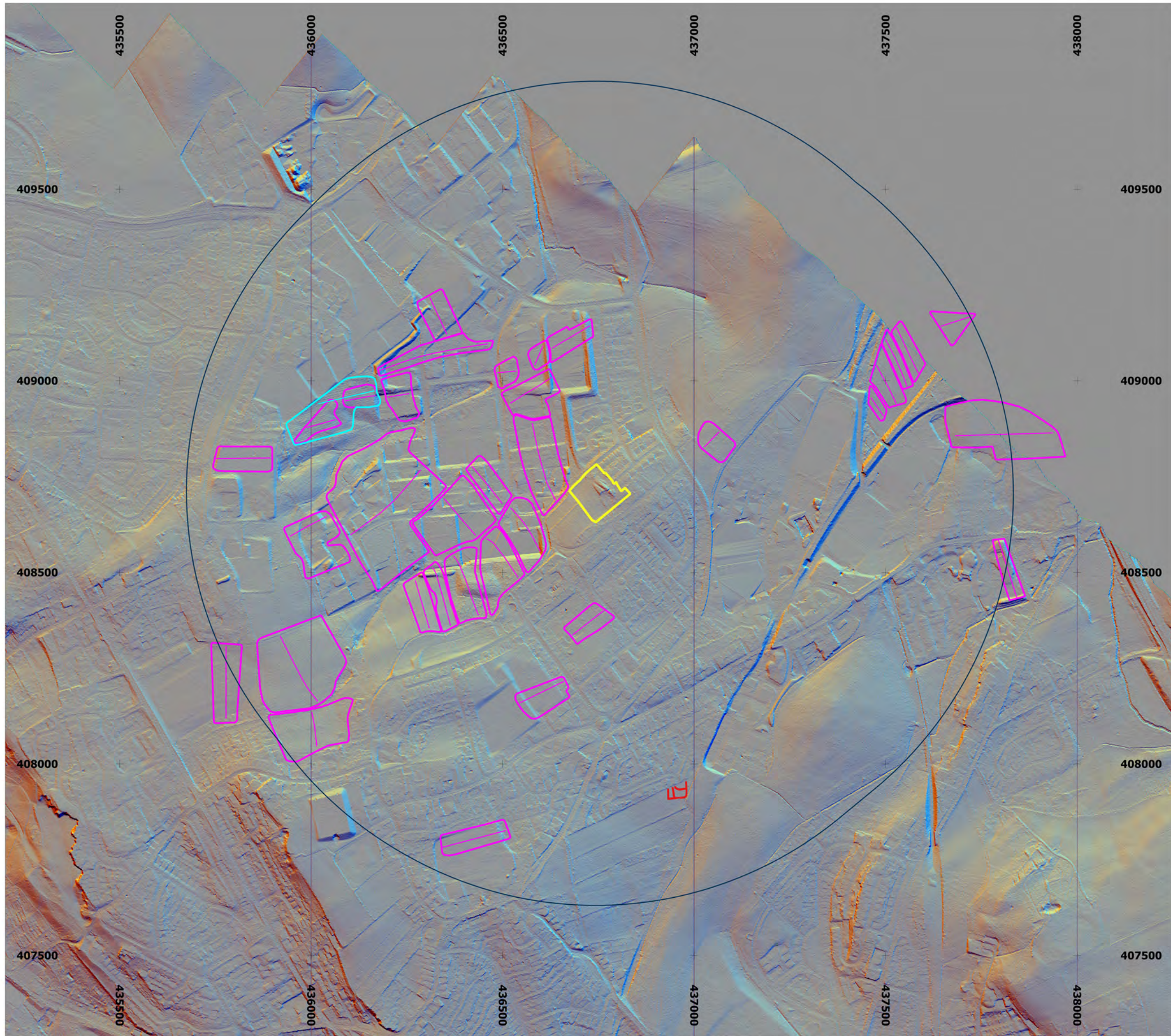
Total Sorties
Total Frames

21
85

Air Photo analysis by Joel Goodchild, Assistant Project Officer (Aerial Survey).

A cover search of aerial photographs held within the Historic England archive was undertaken resulting in 54 vertical photographs and 1 oblique photograph covering the project area being requested. These were analysed along with Google Earth and Environment Agency lidar imagery to map all archaeological features visible within 1km of the PDA. Features identified include medieval and post-medieval ridge and furrow visible as earthworks and a Late Iron Age/Romano-British enclosure visible as cropmarks. Medieval ridge and furrow was concentrated on land to the south of Carlton Industrial Estate and likely represents open-field agriculture associated with the village of Monk Bretton. Although these earthworks appear to have been levelled by expansion of the industrial estate, subsurface deposits relating to these features may survive. The Late Iron Age/Romano-British enclosure visible as cropmarks is located 800m south-southeast of the PDA in fields adjacent to Fish Dam Lane, and had previously been mapped during an earlier assessment (Deegan 2001; SMR 5001). Other putative Iron Age/Romano British cropmarks identified during the previous assessment to the north-east of the PDA (see Figure 2) are thought to be modern features on the basis of the analysis of the lidar data.

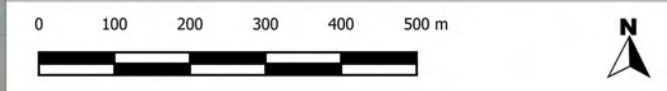




2019 AP analysis results and lidar DTM @ 1m resolution

- Site boundary
- 1km study area
- Earthwork
- Levelled Earthwork
- Cropmark

Information based upon Historic Sites & Monuments Record Data © South Yorkshire Archaeology Service 2019



Site name: St. Michael's Avenue, Monk Bretton
 Date: March 2019
 Drawn by: JG/AB
 Scale: 1:1000 @ A3

Archaeological Research Services Ltd
 Angel House
 Portland Square
 Bakewell
 Derbyshire
 DE45 1HB



This drawing: © ARS Ltd

Contains Lidar data:
 © The Environment Agency 2019.

Tel: 021629 814540
www.archaeologicalresearchservices.com

APPENDIX 6: GROUNDSURE HISTORIC MAPPING REPORT



Site Details:

ST MICHAELS AVENUE, MONK
BRETTON, BARNSELY, S71 2SD

Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: County Series

Map date: 1892

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1892
Revised N/A
Edition 1892
Copyright N/A
Levelled N/A

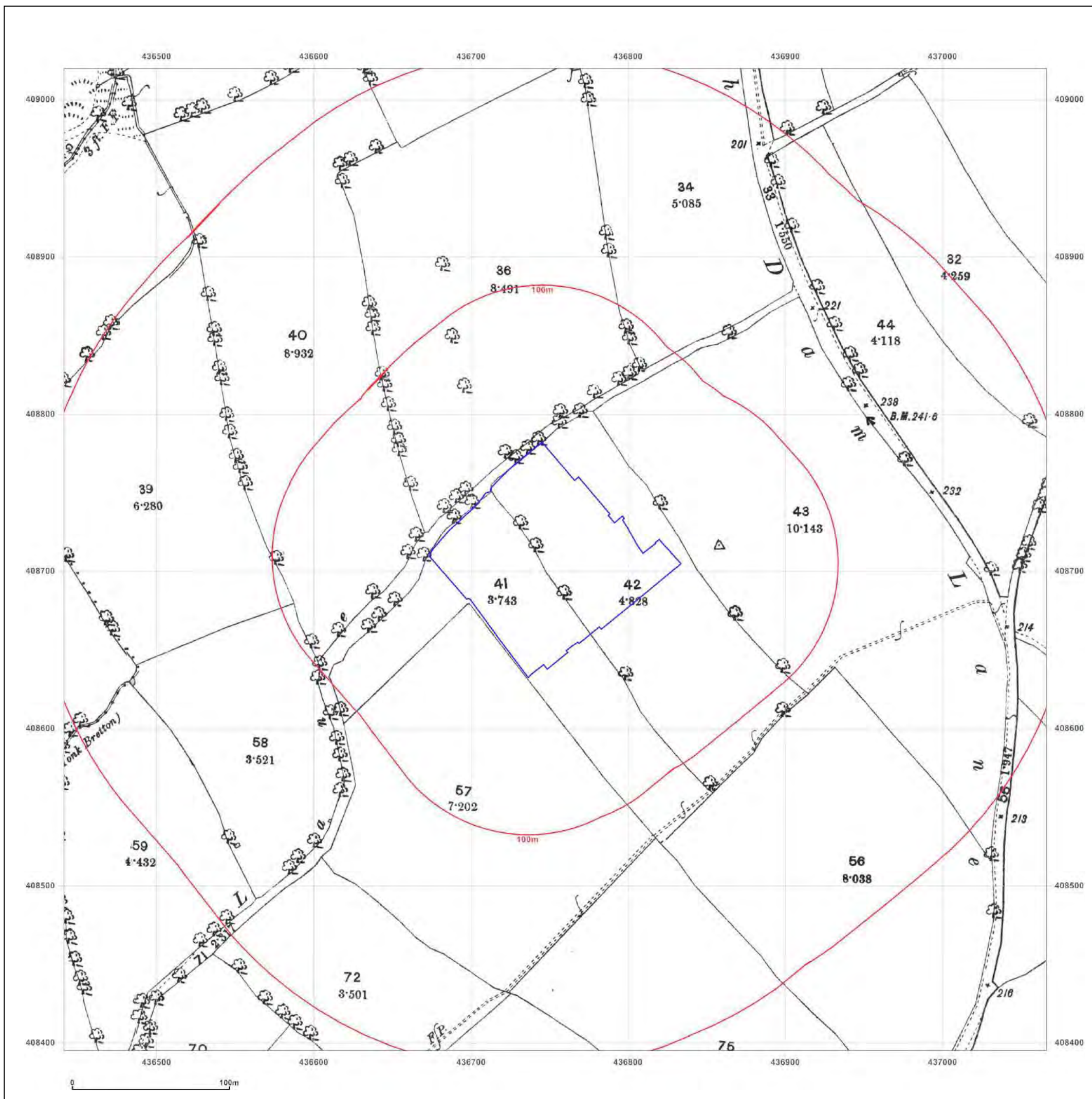


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Site Details:

ST MICHAELS AVENUE, MONK
BRETTON, BARNSELY, S71 2SD

Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: County Series

Map date: 1906

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1890
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

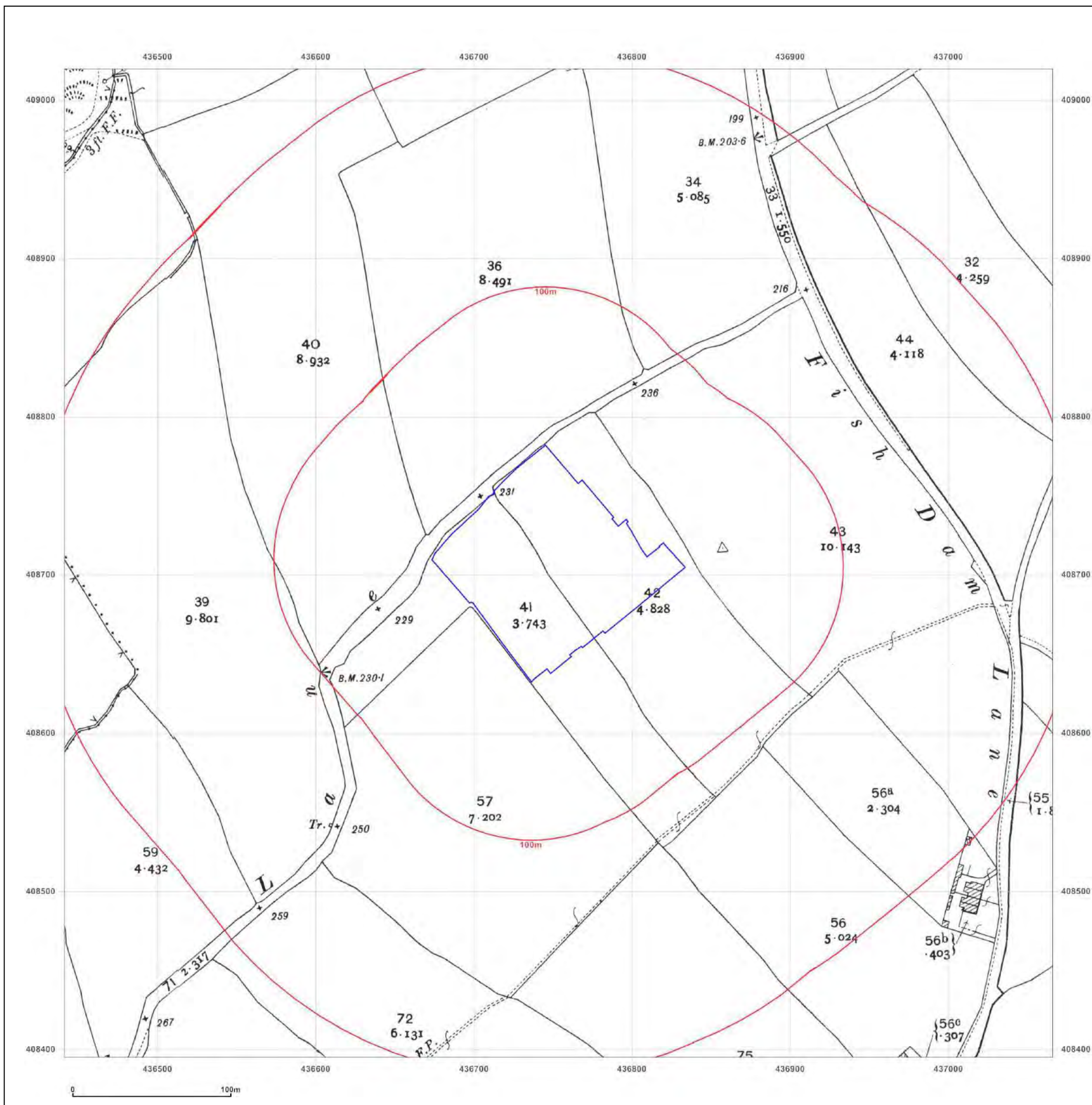


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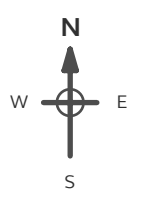


Site Details:

ST MICHAELS AVENUE, MONK
BRETTON, BARNSELY, S71 2SD

Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid
Map date: 1961
Scale: 1:1,250
Printed at: 1:2,000



Surveyed 1961 Revised 1961 Edition N/A Copyright 1961 Levelled 1959	Surveyed 1961 Revised 1961 Edition N/A Copyright 1961 Levelled 1959
Surveyed 1961 Revised 1961 Edition N/A Copyright 1961 Levelled 1959	Surveyed 1961 Revised 1961 Edition N/A Copyright 1961 Levelled 1959



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Site Details:

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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid

Map date: 1961

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1949

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1959

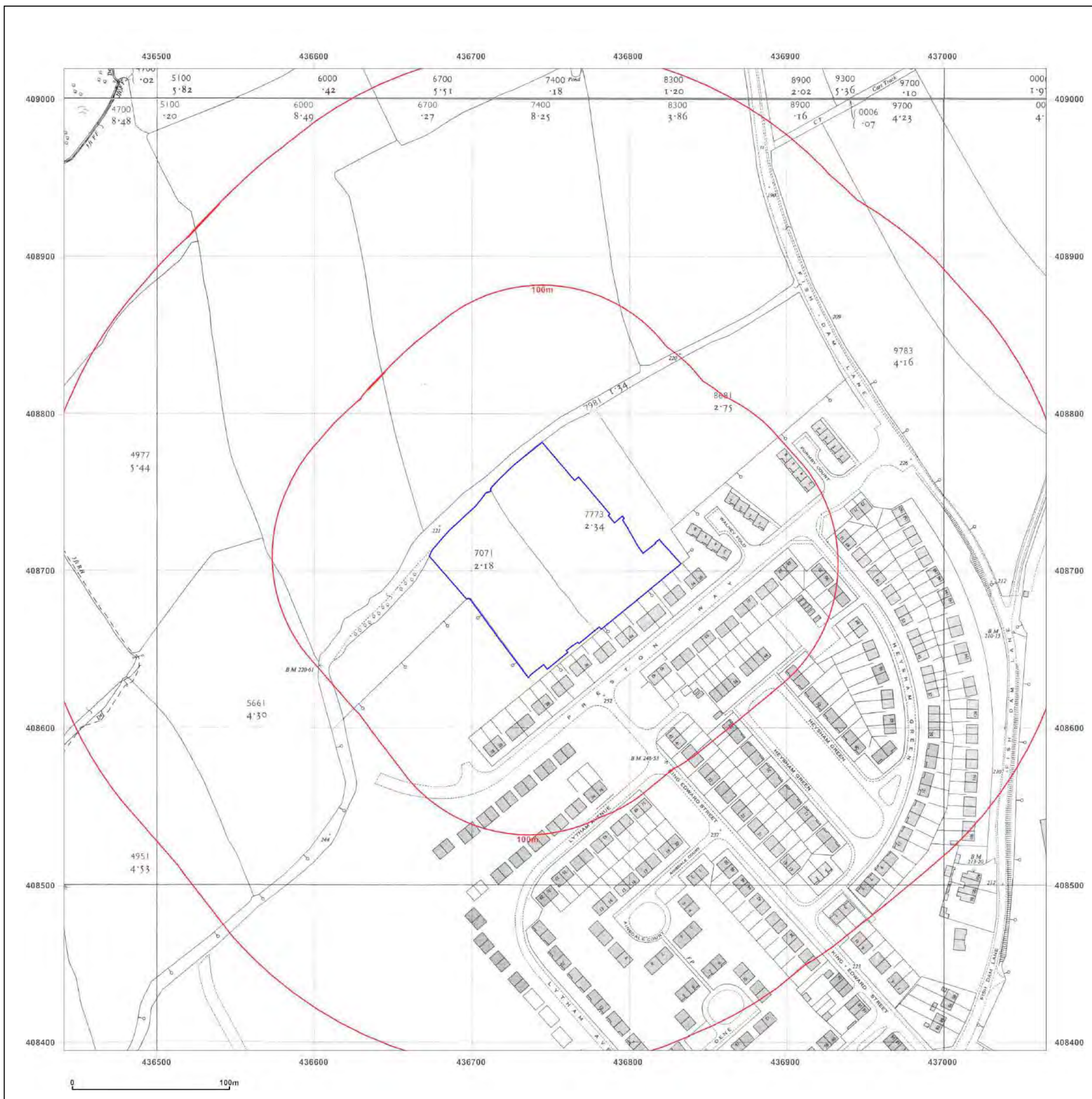


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid

Map date: 1962-1967

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1967
Revised 1967
Edition N/A
Copyright 1969
Levelled 1963

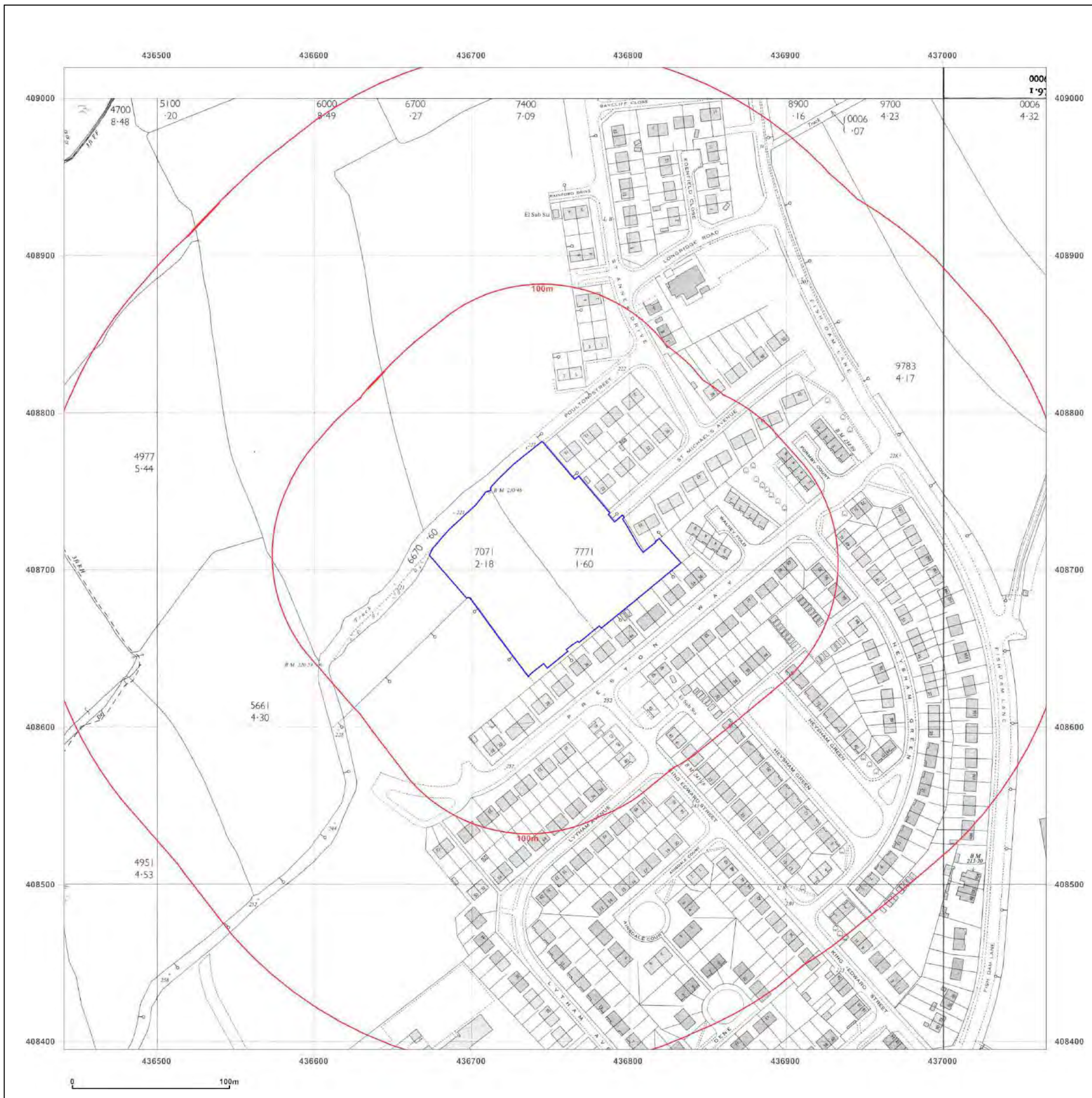


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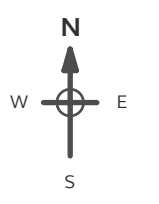
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Site Details:
 ST MICHAELS AVENUE, MONK
 BRETTON, BARNSELY, S71 2SD

Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid
Map date: 1965-1968
Scale: 1:1,250
Printed at: 1:2,000



Surveyed 1961
 Revised 1967
 Edition N/A
 Copyright 1968
 Levelled 1963

Surveyed 1961
 Revised 1964
 Edition N/A
 Copyright 1965
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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid

Map date: 1974-1978

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A Revised N/A Edition N/A Copyright 1978 Levelled N/A	Surveyed 1961 Revised 1973 Edition N/A Copyright 1974 Levelled 1964
	Surveyed 1961 Revised 1973 Edition N/A Copyright 1974 Levelled 1964



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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid

Map date: 1990-1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed 1993 Revised 1993 Edition N/A Copyright 1993 Levelled N/A
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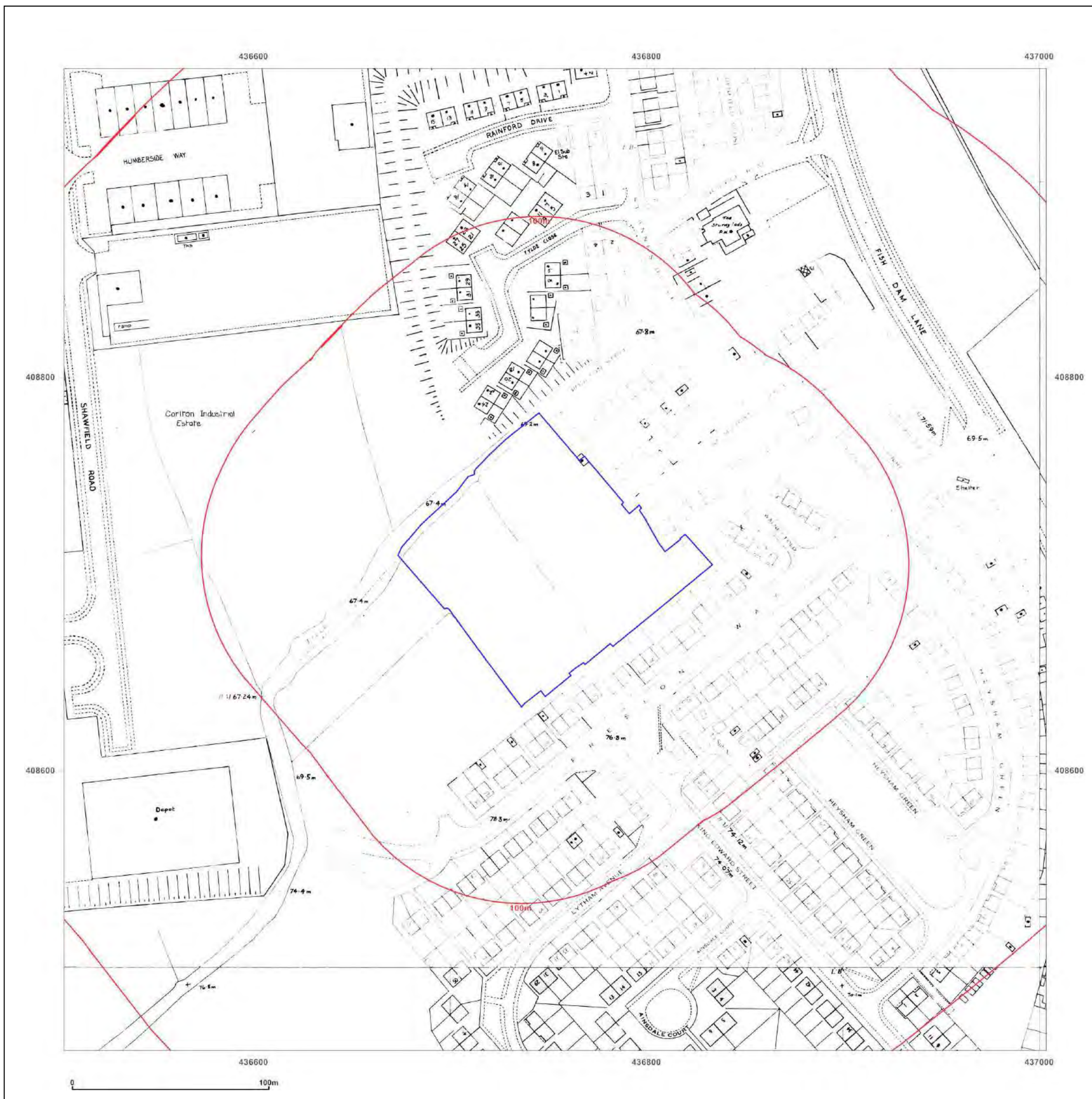


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1993
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Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: County Series

Map date: 1850-1854

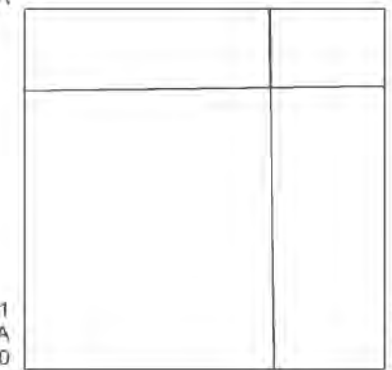
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Printed at: 1:10,560



Surveyed 1851
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A

Surveyed 1854
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A



Surveyed 1851
Revised N/A
Edition 1850
Copyright N/A
Levelled N/A

Surveyed 1850
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A

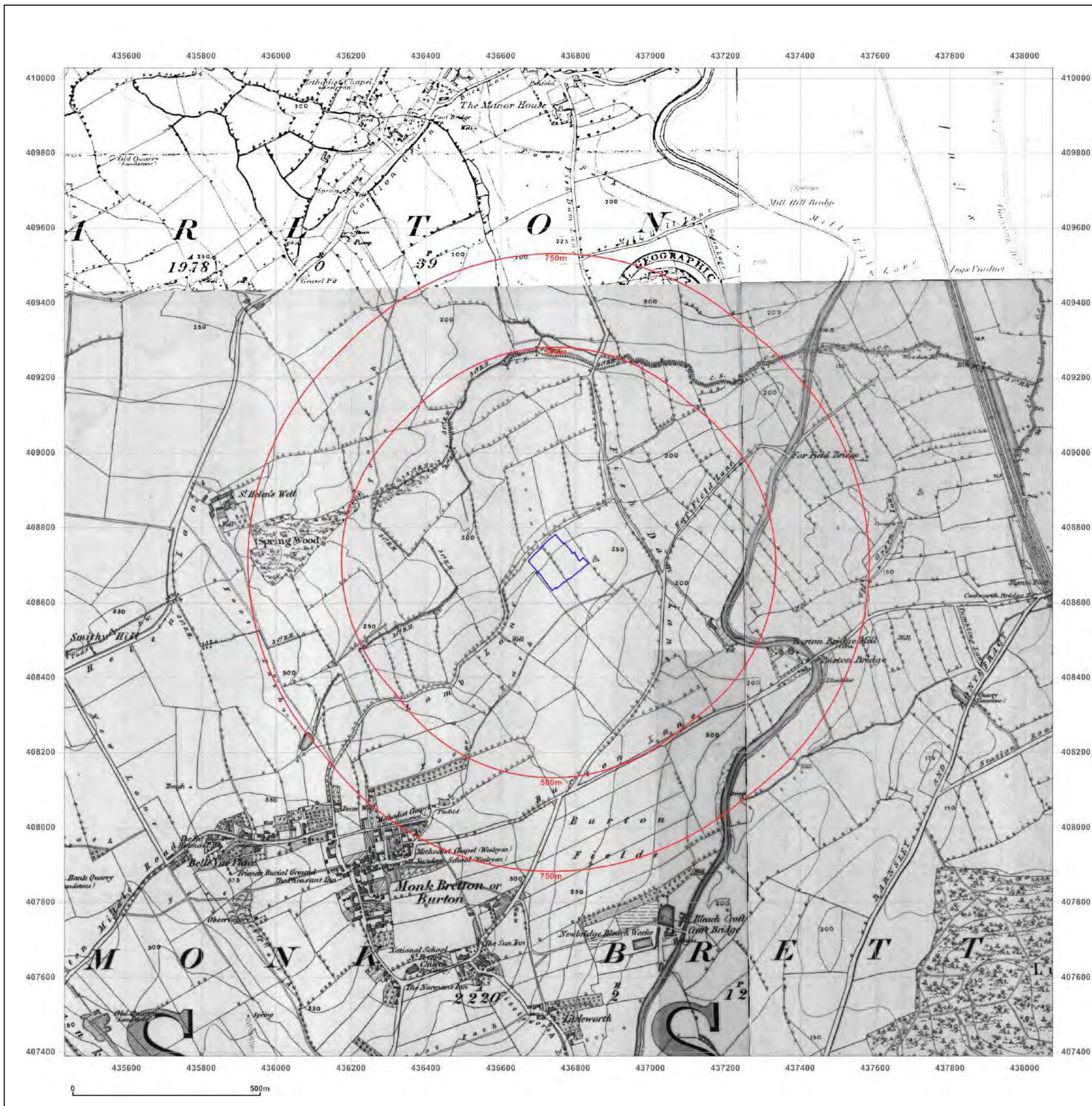


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

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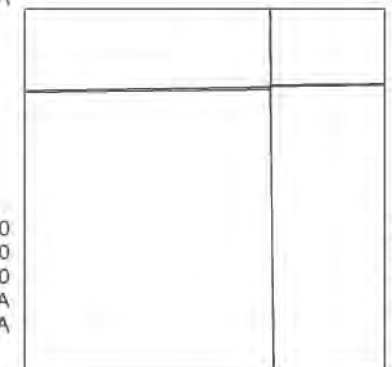


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Edition 1891
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Revised 1891
Edition 1891
Copyright N/A
Levelled N/A

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Edition 1890
Copyright N/A
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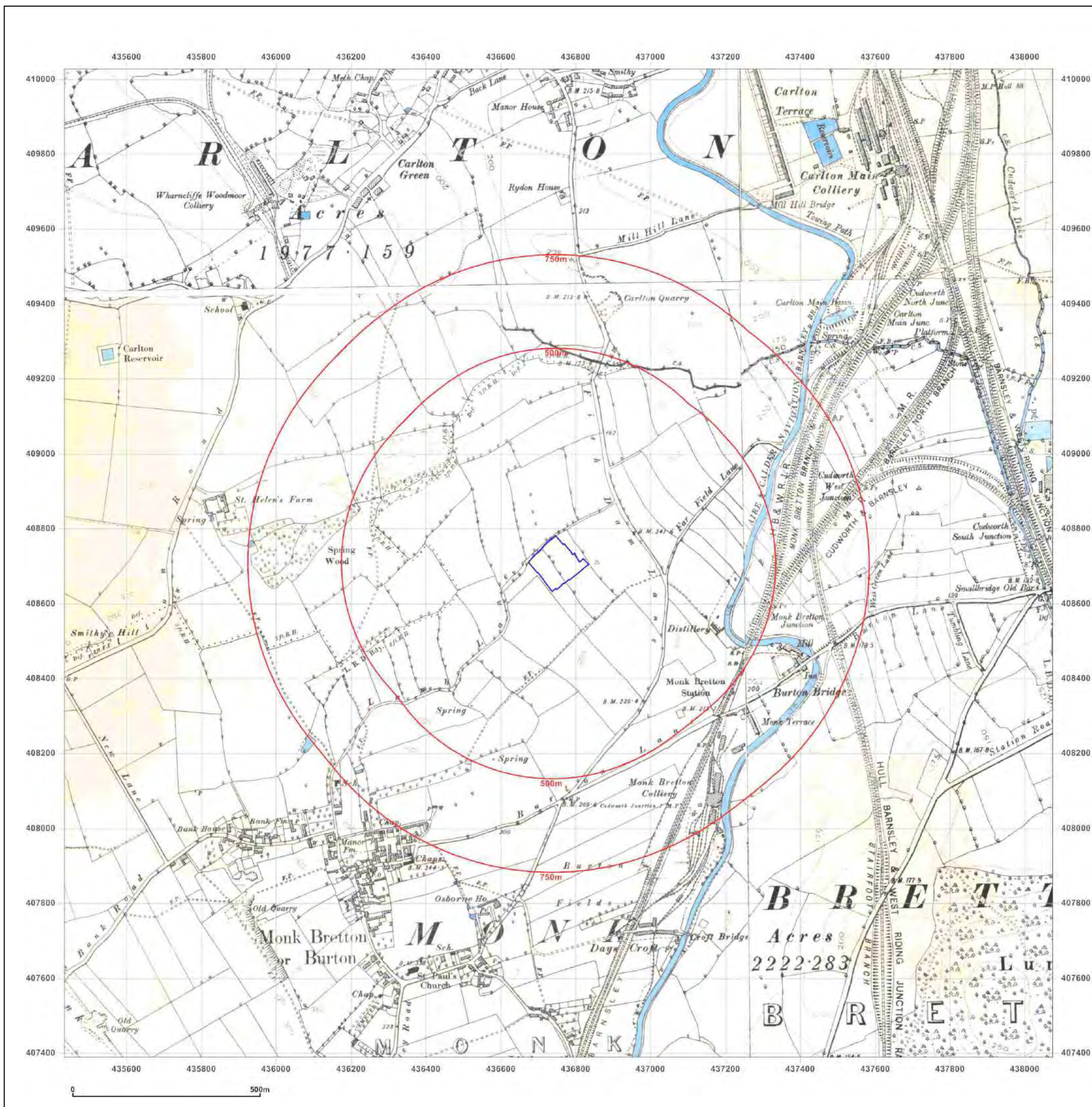


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: County Series

Map date: 1904

Scale: 1:10,560

Printed at: 1:10,560



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Edition 1904
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Levelled N/A

Surveyed 1891
Revised 1904
Edition 1904
Copyright N/A
Levelled N/A

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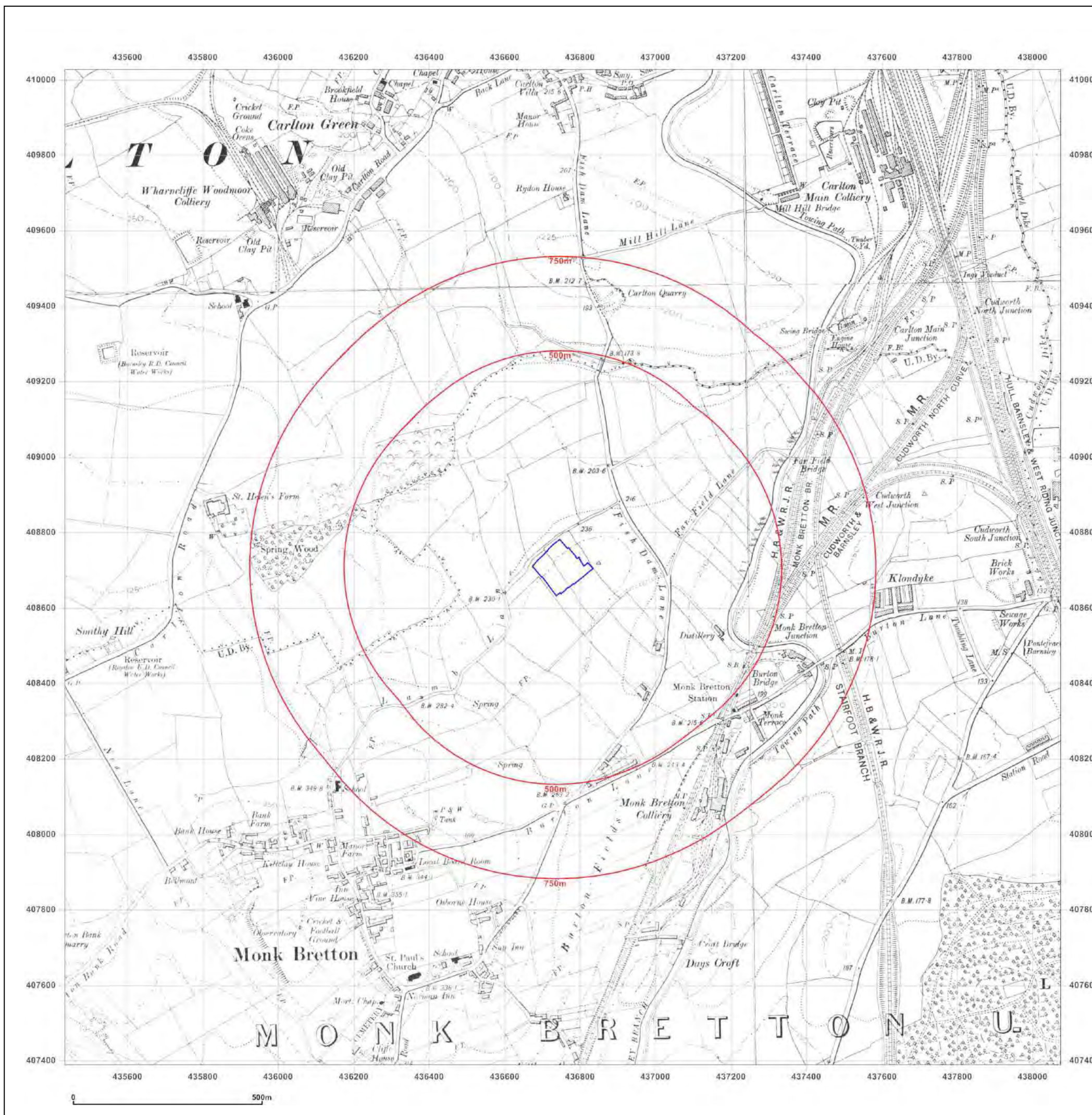


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: County Series

Map date: 1929-1932

Scale: 1:10,560

Printed at: 1:10,560



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Surveyed 1850
Revised 1930
Edition 1930
Copyright N/A
Levelled 1929

Surveyed 1851
Revised 1929
Edition 1929
Copyright N/A
Levelled 1915

Surveyed 1850
Revised 1930
Edition 1932
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Levelled N/A

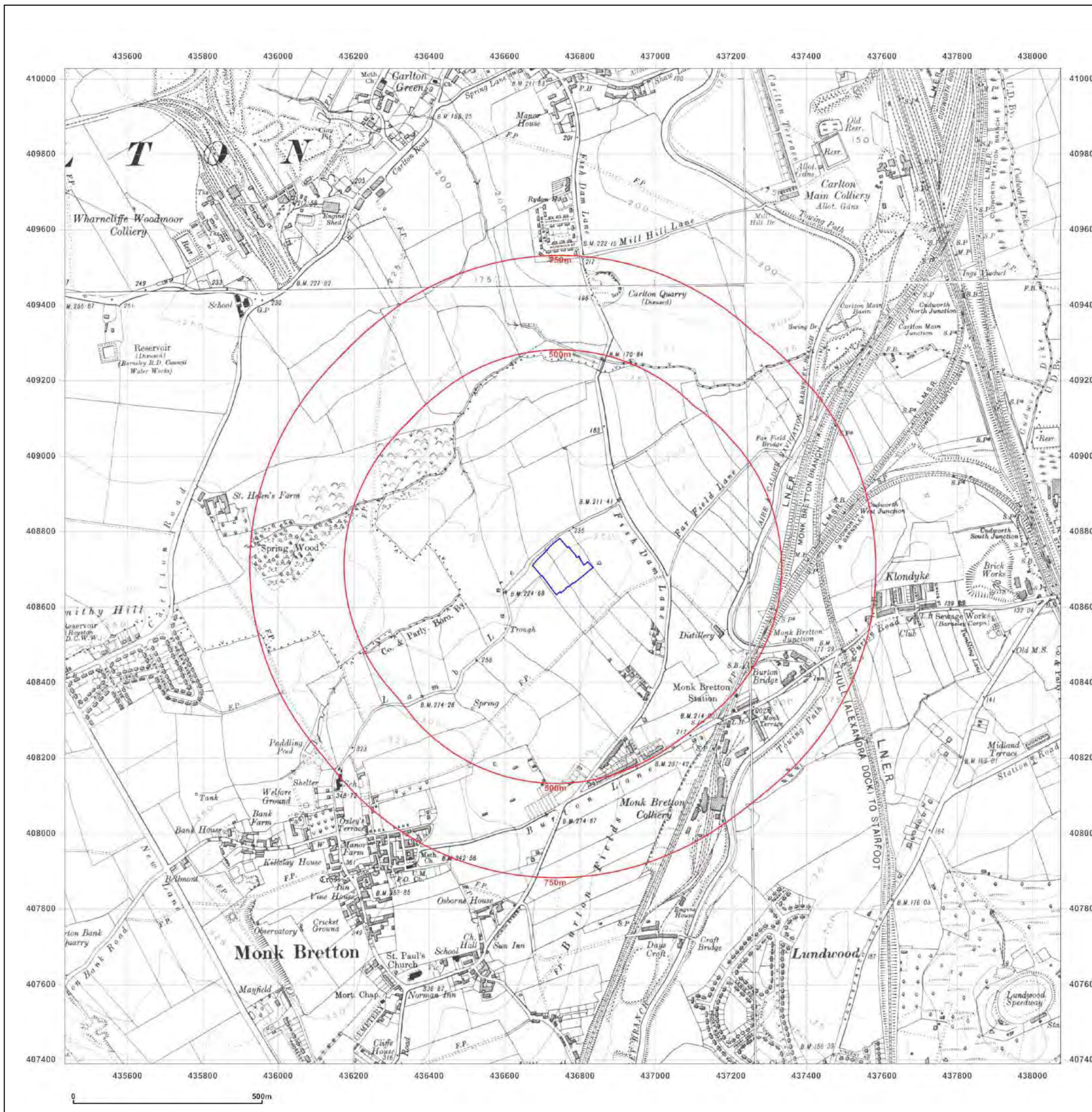


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: County Series

Map date: 1938

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Printed at: 1:10,560

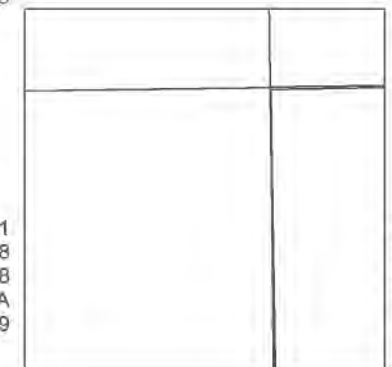


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Edition 1938
Copyright N/A
Levelled 1929

Surveyed 1850
Revised 1938
Edition 1938
Copyright N/A
Levelled 1929

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Revised 1938
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Copyright N/A
Levelled 1929

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Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

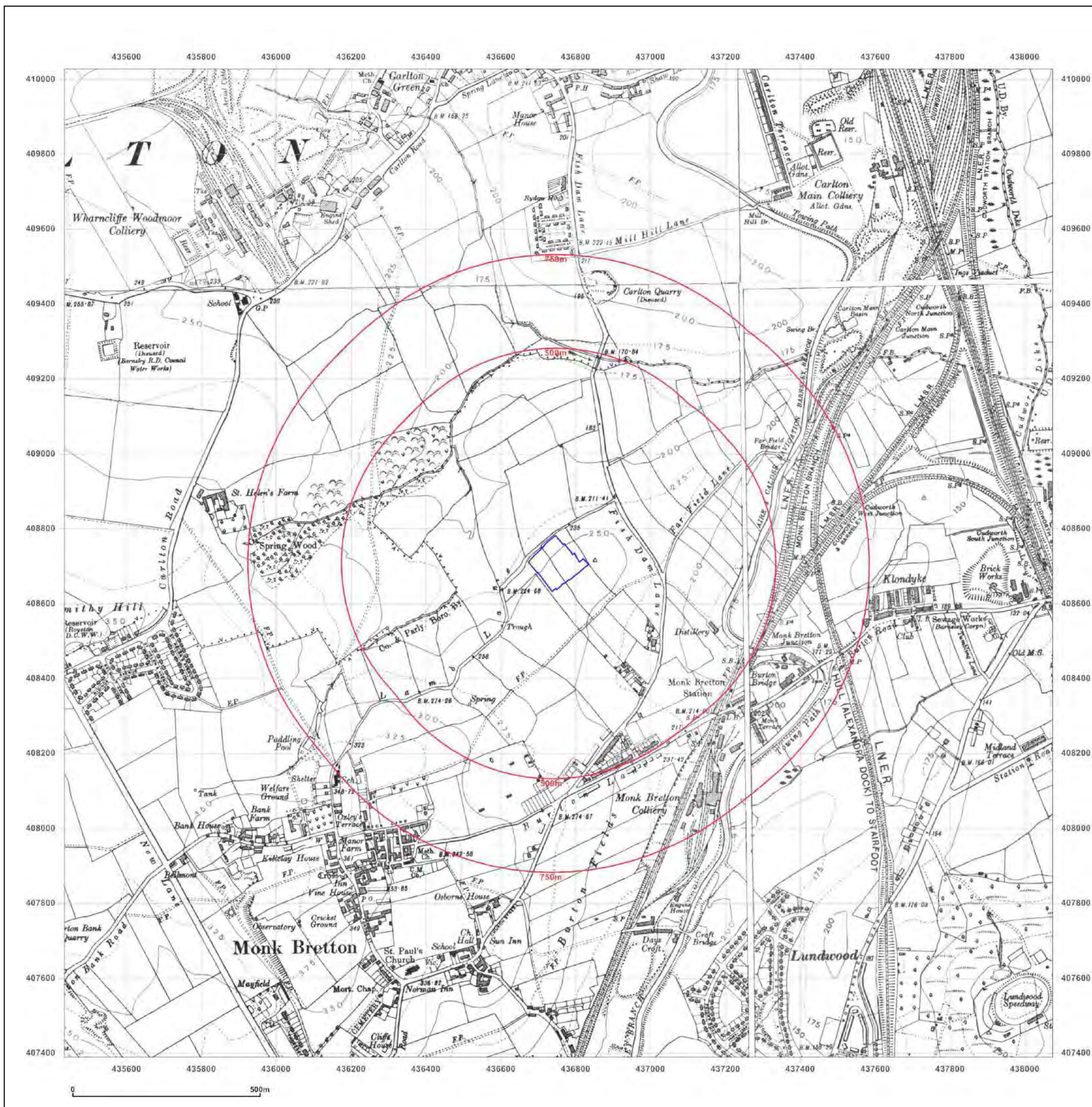


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Site Details:

ST MICHAELS AVENUE, MONK
BRETTON, BARNSELEY, S71 2SD

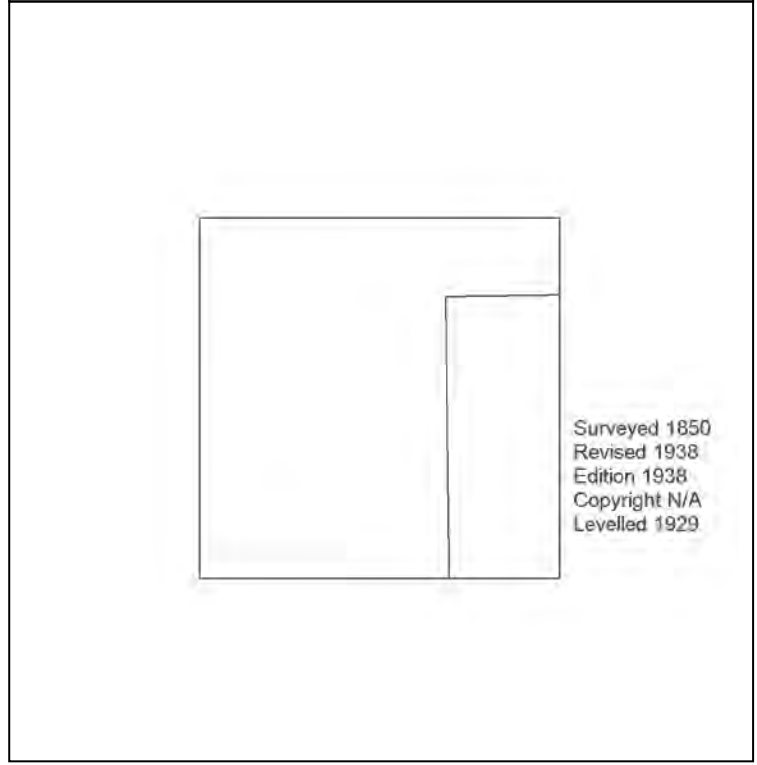
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Grid Ref: 436753, 408707

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1850
Revised 1938
Edition 1938
Copyright N/A
Levelled 1929

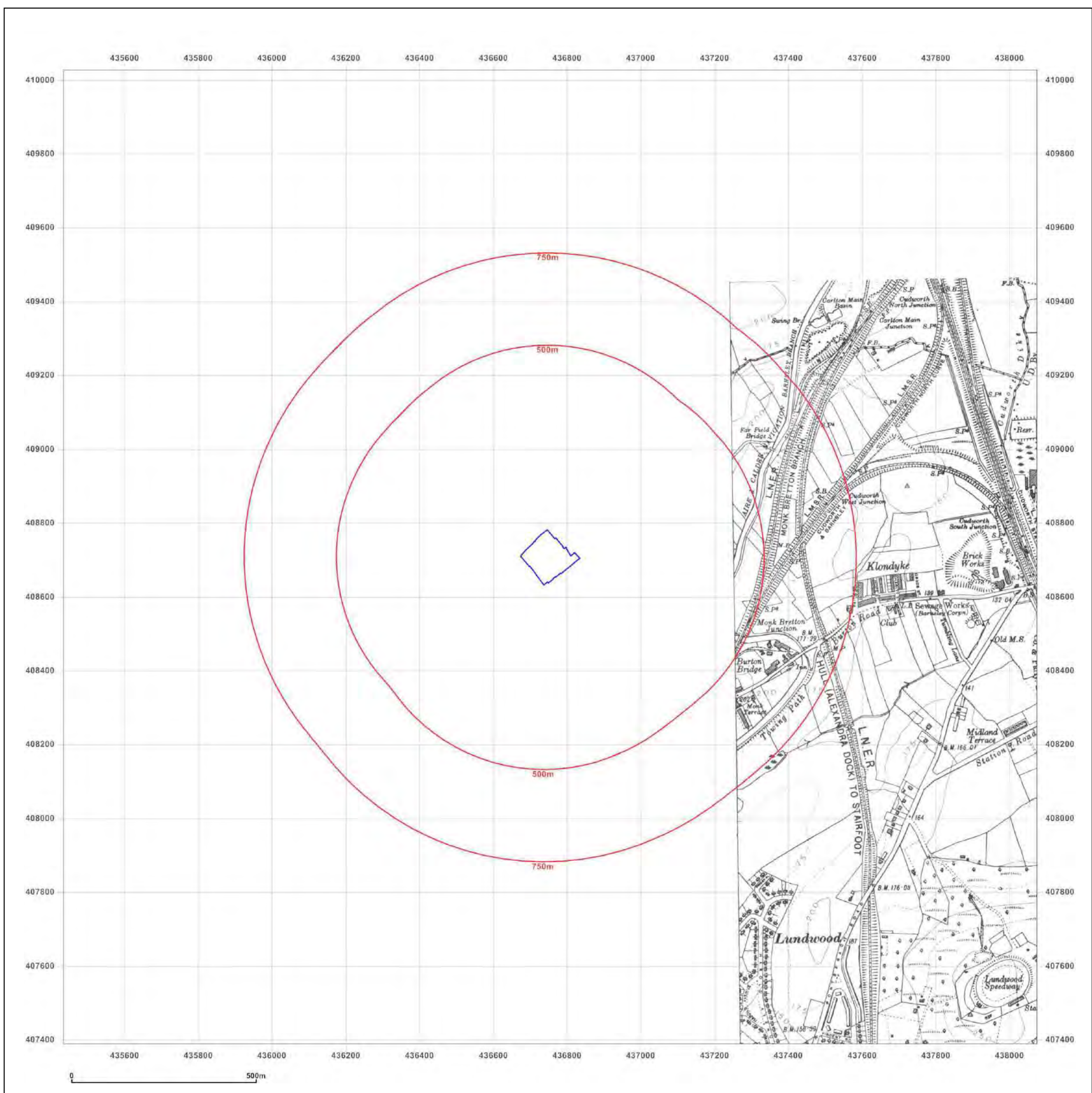


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: County Series

Map date: 1948

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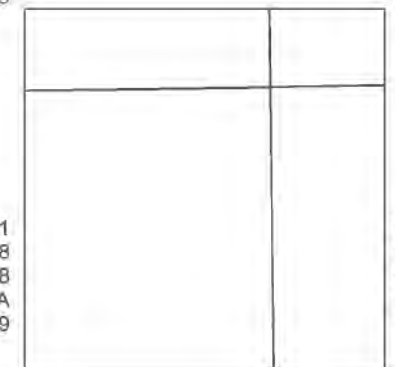


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Edition 1948
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Levelled 1929

Surveyed 1850
Revised 1948
Edition 1948
Copyright N/A
Levelled 1929

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Revised 1948
Edition 1948
Copyright N/A
Levelled 1929

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Revised 1948
Edition 1948
Copyright N/A
Levelled 1929

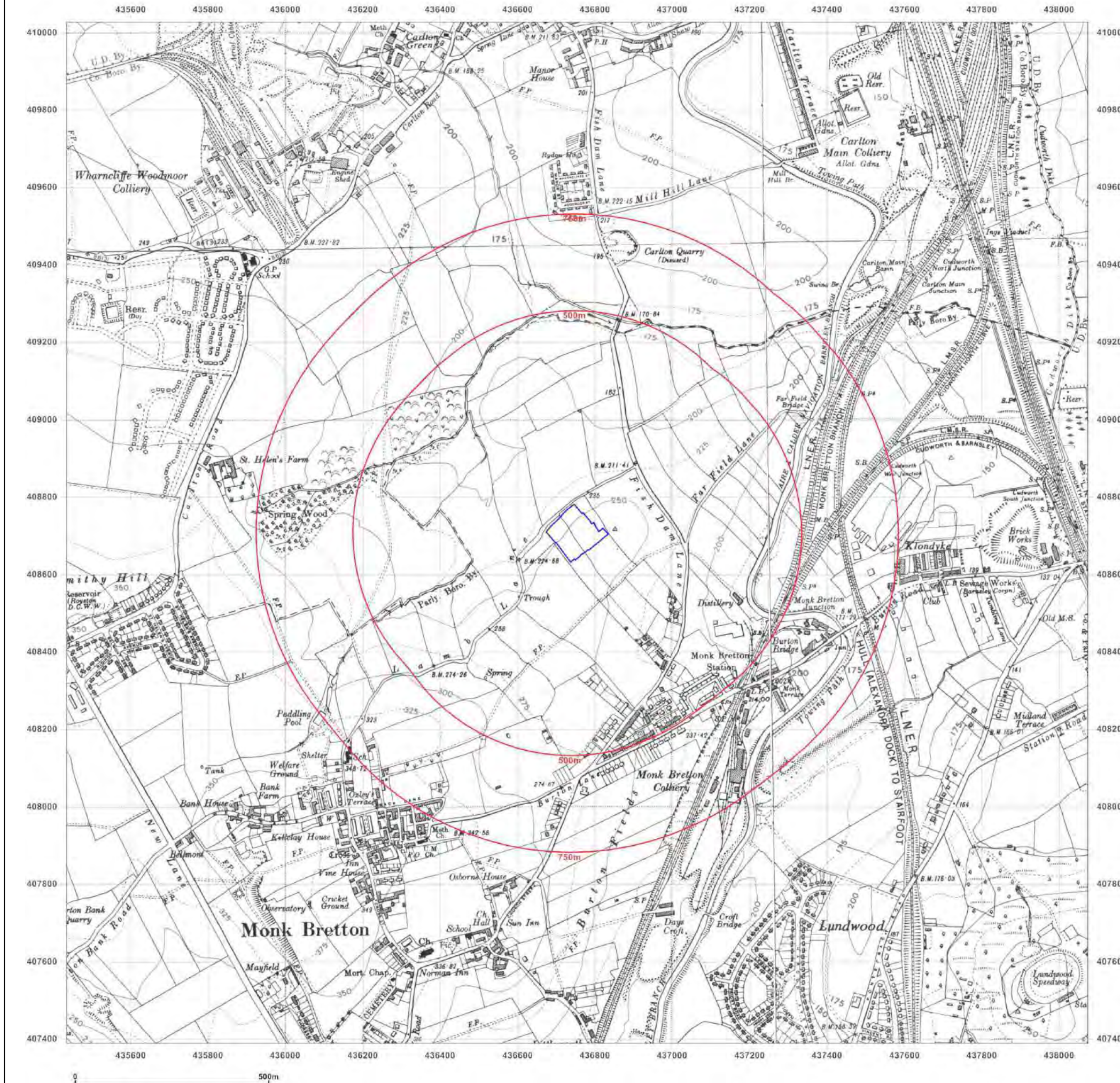


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Site Details:

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BRETTON, BARNSELY, S71 2SD

Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: Provisional

Map date: 1951-1955

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1951
Revised 1951
Edition N/A
Copyright 1951
Levelled N/A

Surveyed N/A
Revised 1955
Edition N/A
Copyright 1955
Levelled N/A

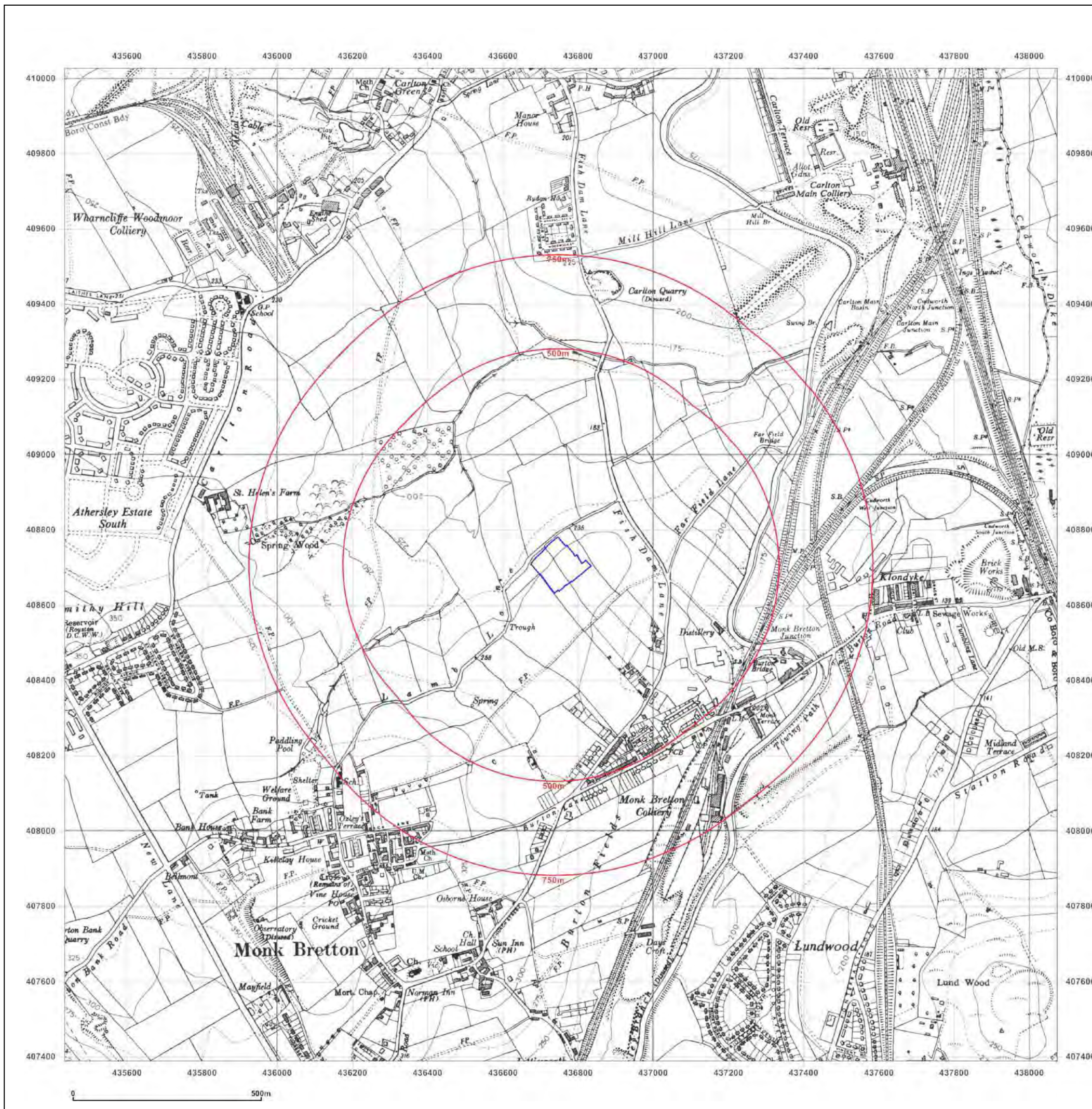


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Site Details:

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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: Provisional

Map date: 1966

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1966
Revised 1966
Edition N/A
Copyright 1966
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Surveyed 1966
Revised 1966
Edition N/A
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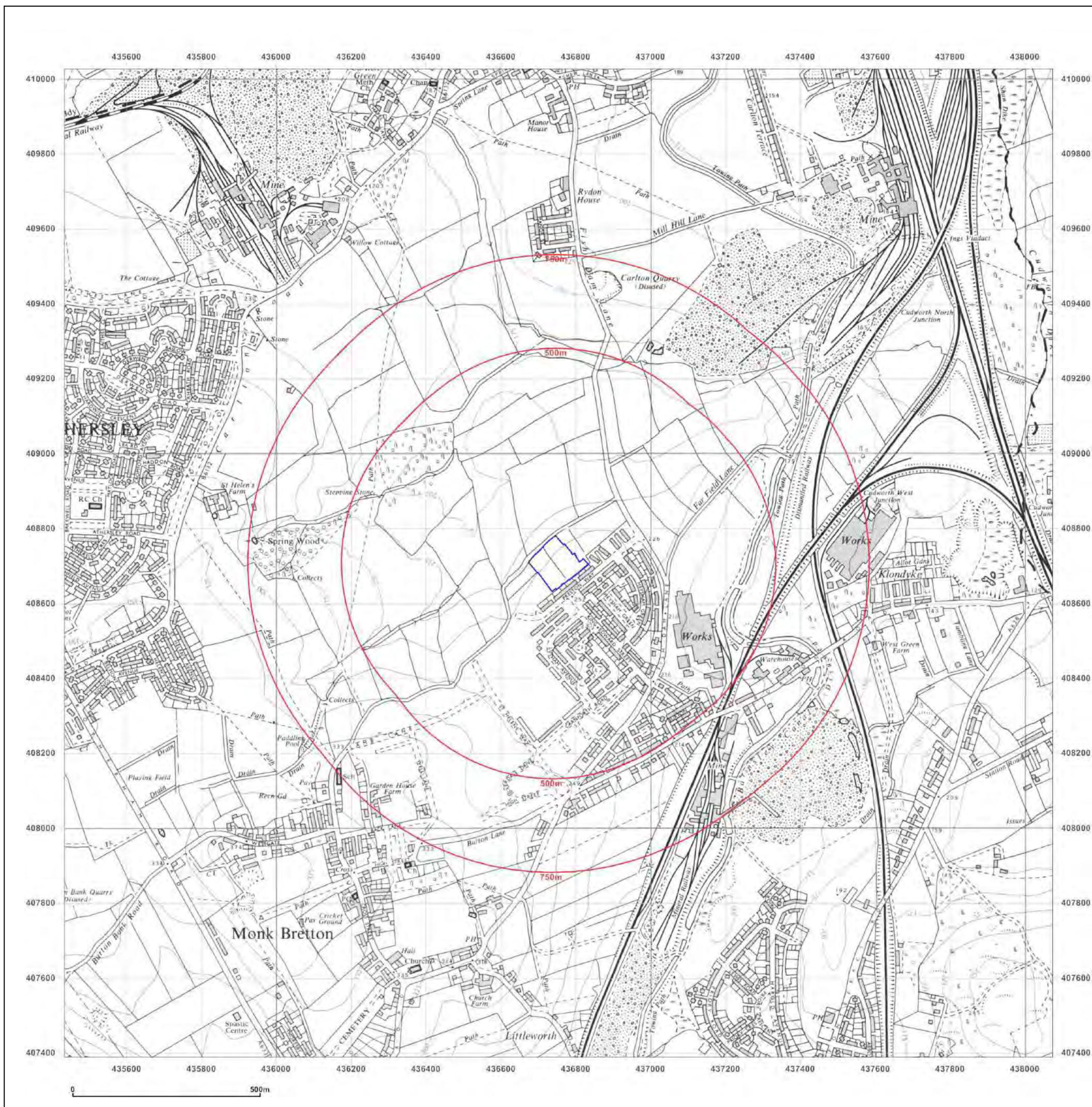


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid

Map date: 1974

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1974
Revised 1974
Edition N/A
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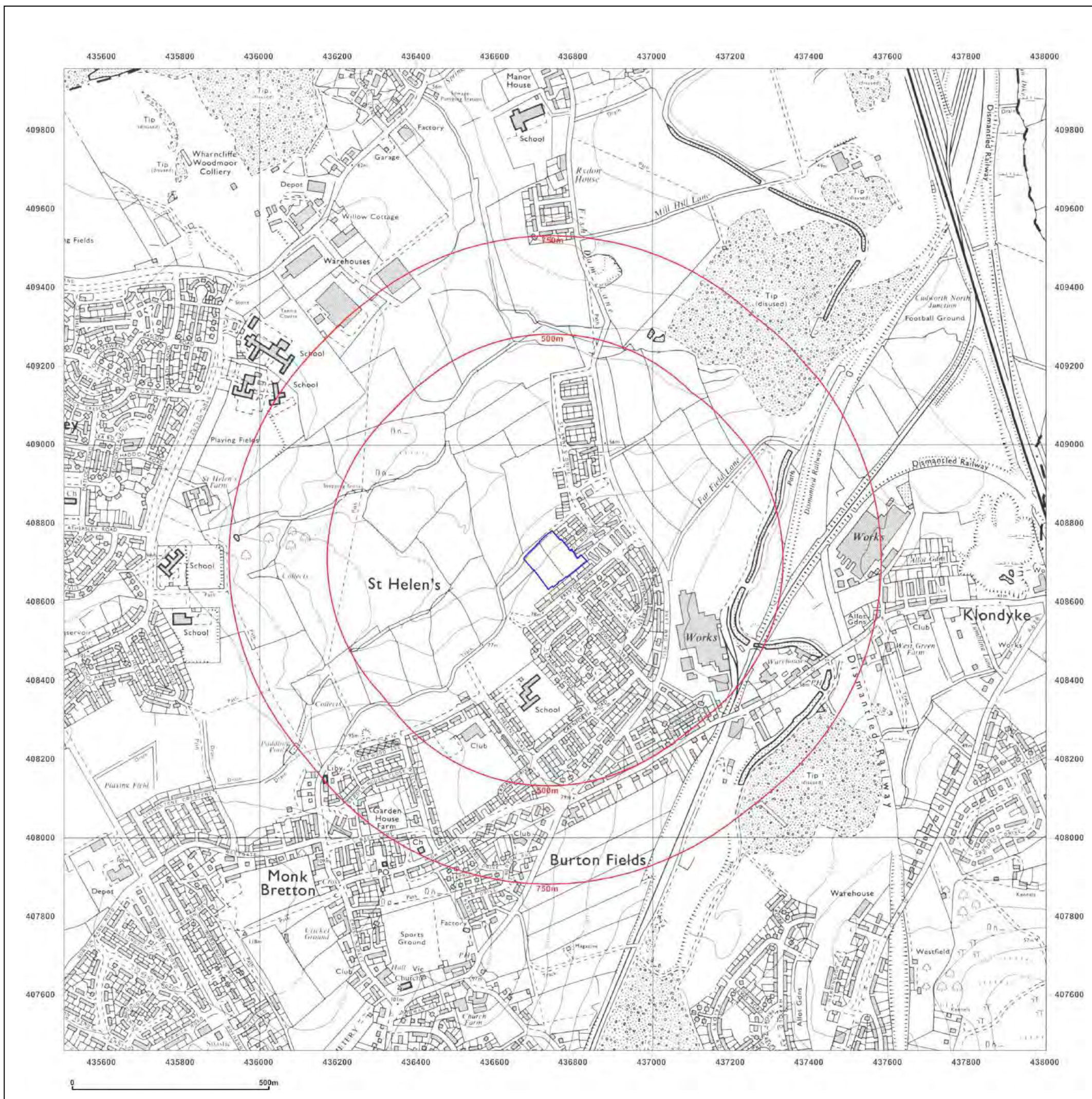


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid

Map date: 1982

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1981
Revised 1982
Edition N/A
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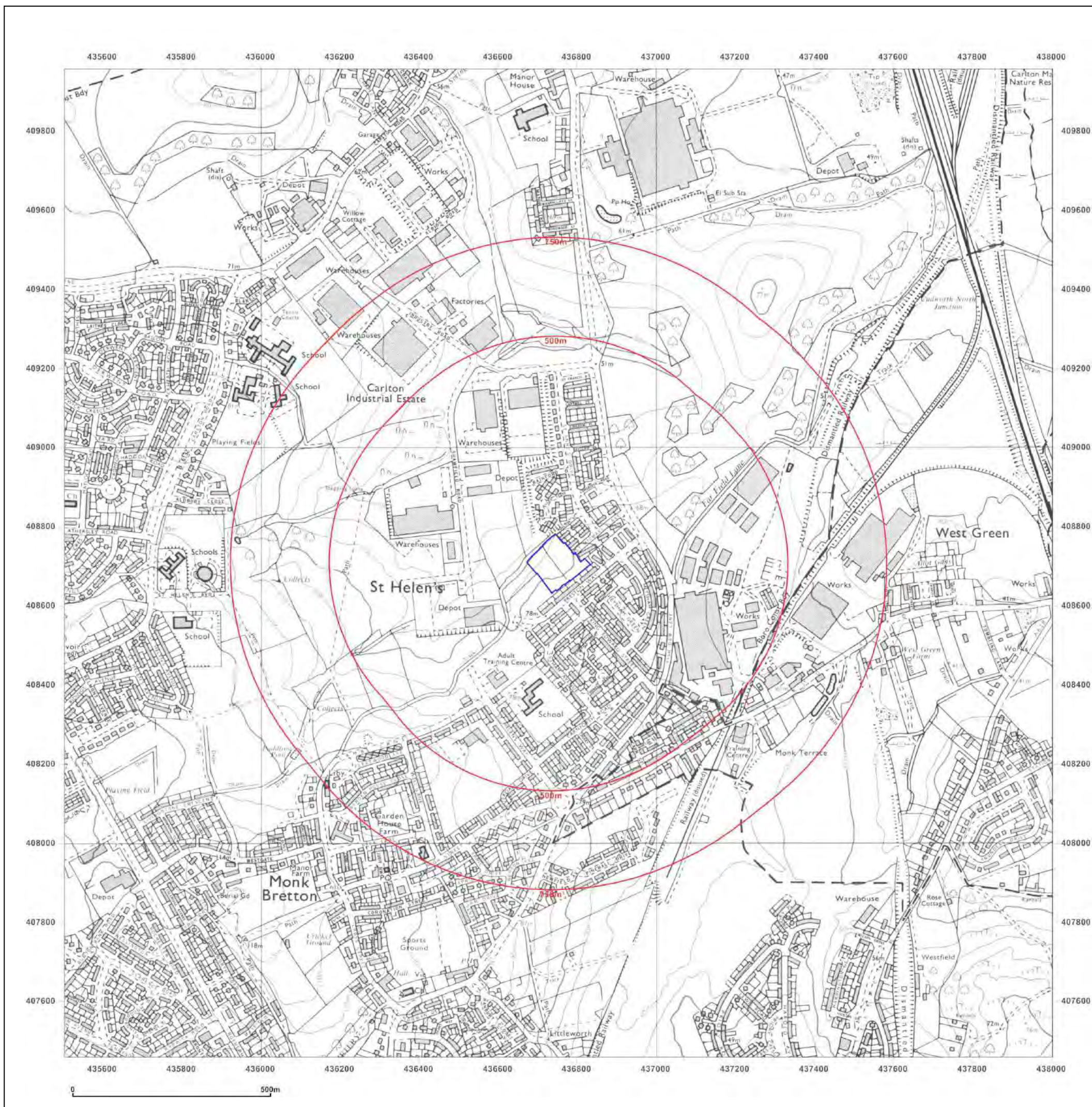


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid

Map date: 1992

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1981
Revised 1992
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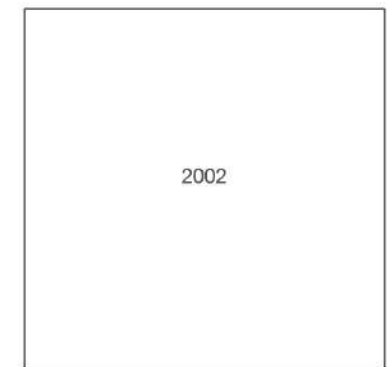
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Grid Ref: 436753, 408707

Map Name: 1:10,000 Raster

Map date: 2002

Scale: 1:10,000

Printed at: 1:10,000



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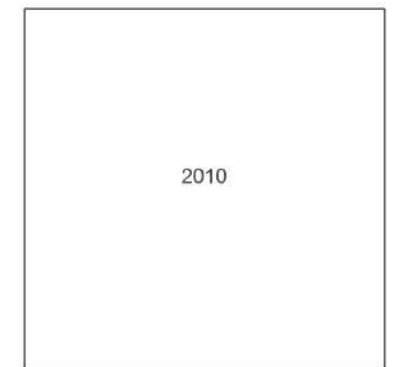
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Grid Ref: 436753, 408707

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

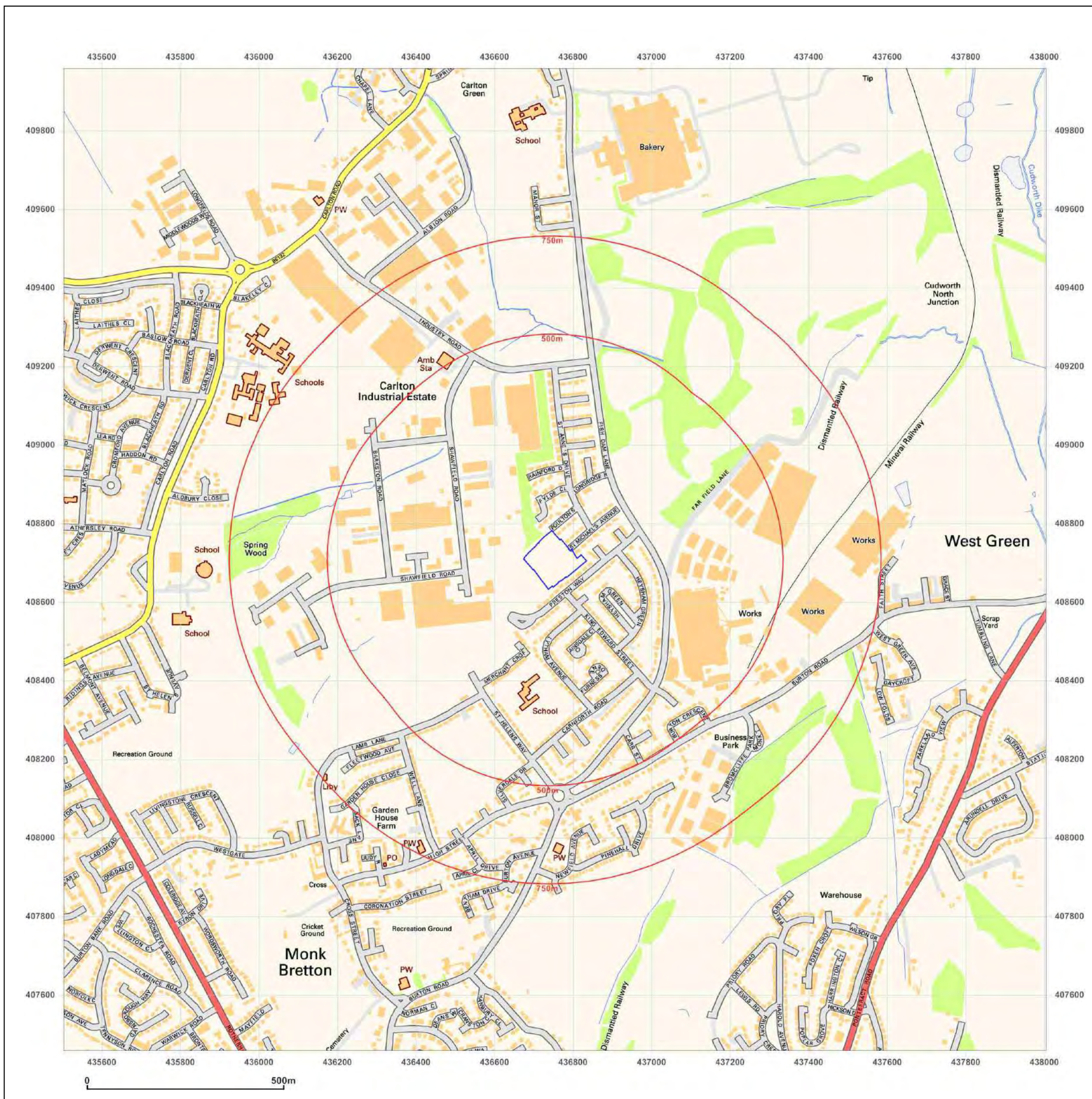


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Client Ref: 18-1-6013_Monk_Bretton_PO23002493
Report Ref: GS-4615476
Grid Ref: 436753, 408707

Map Name: National Grid

Map date: 2014

Scale: 1:10,000

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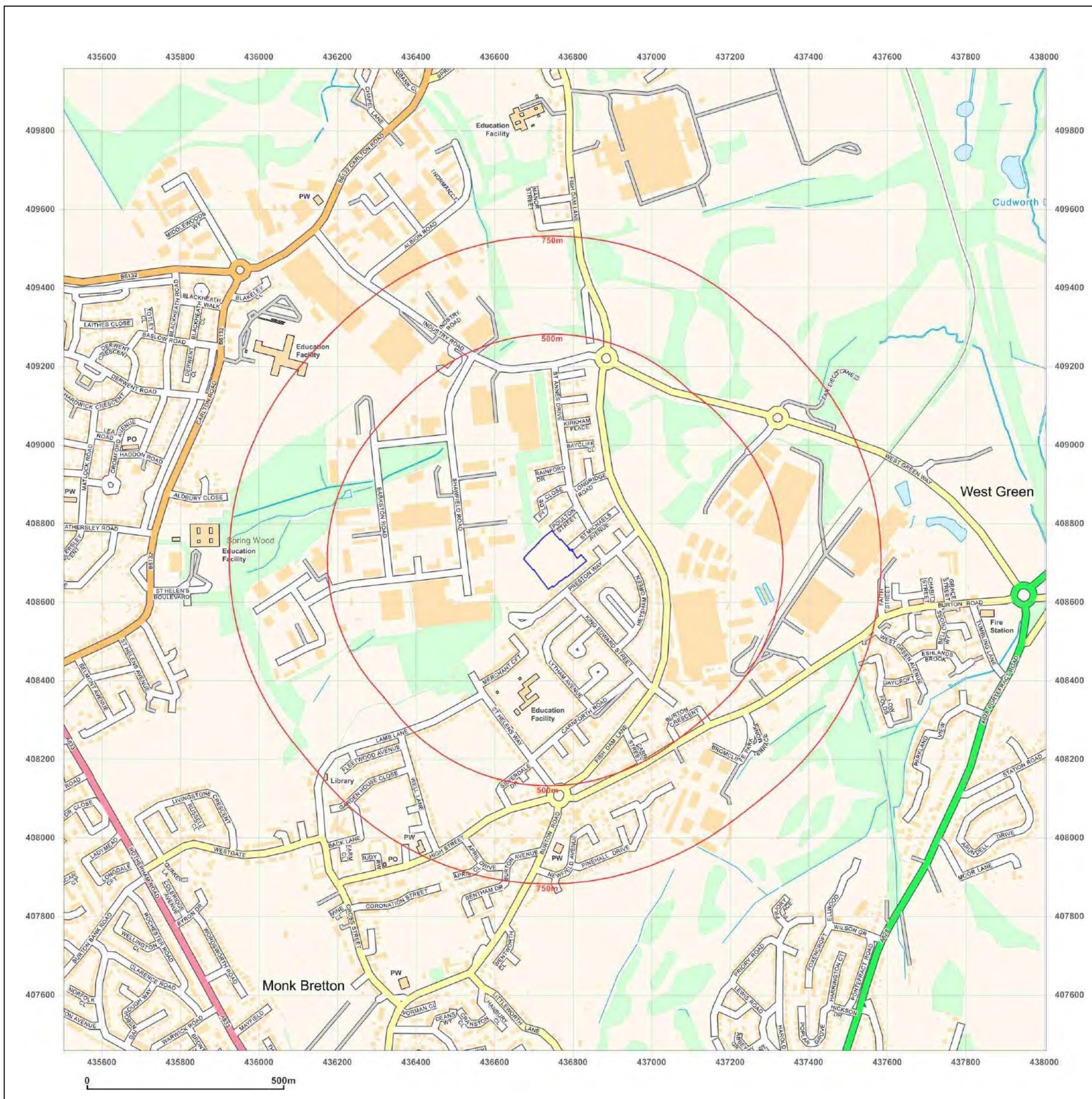


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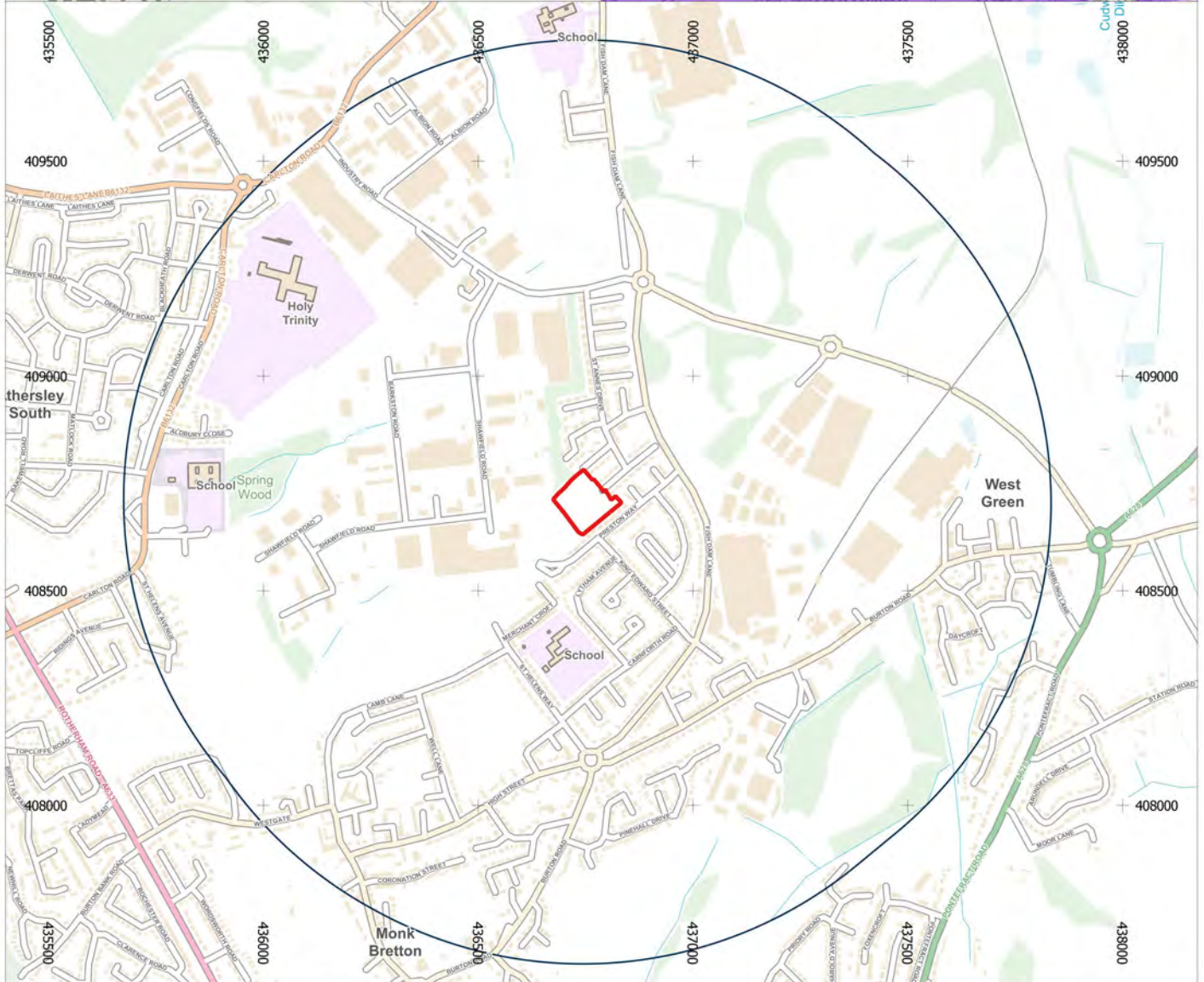
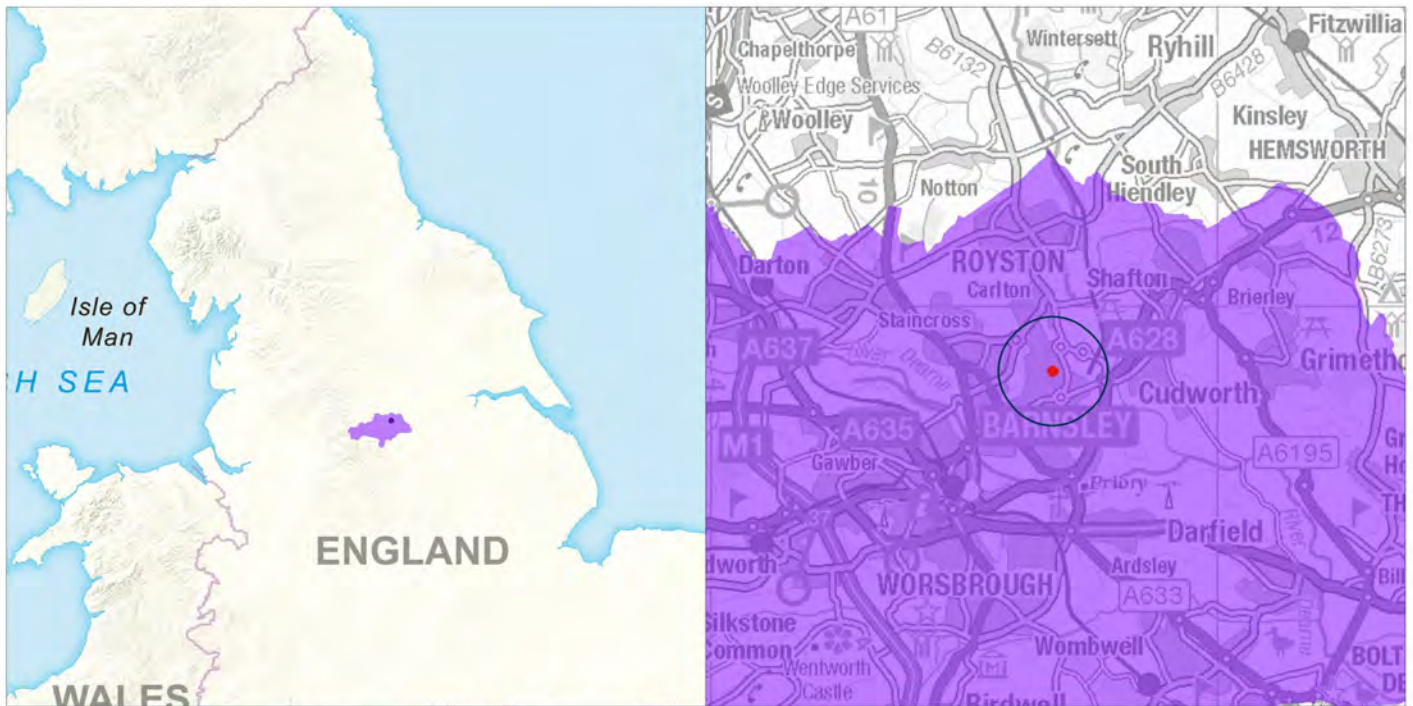
Production date: 21 December 2017

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APPENDIX 7: FIGURES





Site name: St. Michael's Avenue, Monk Bretton, Barnsley
 Date: February 2019
 Drawn by: AB
 Scale: Varies

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Barnsley District
 1km study area
 Site boundary

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Figure 1:
Site location

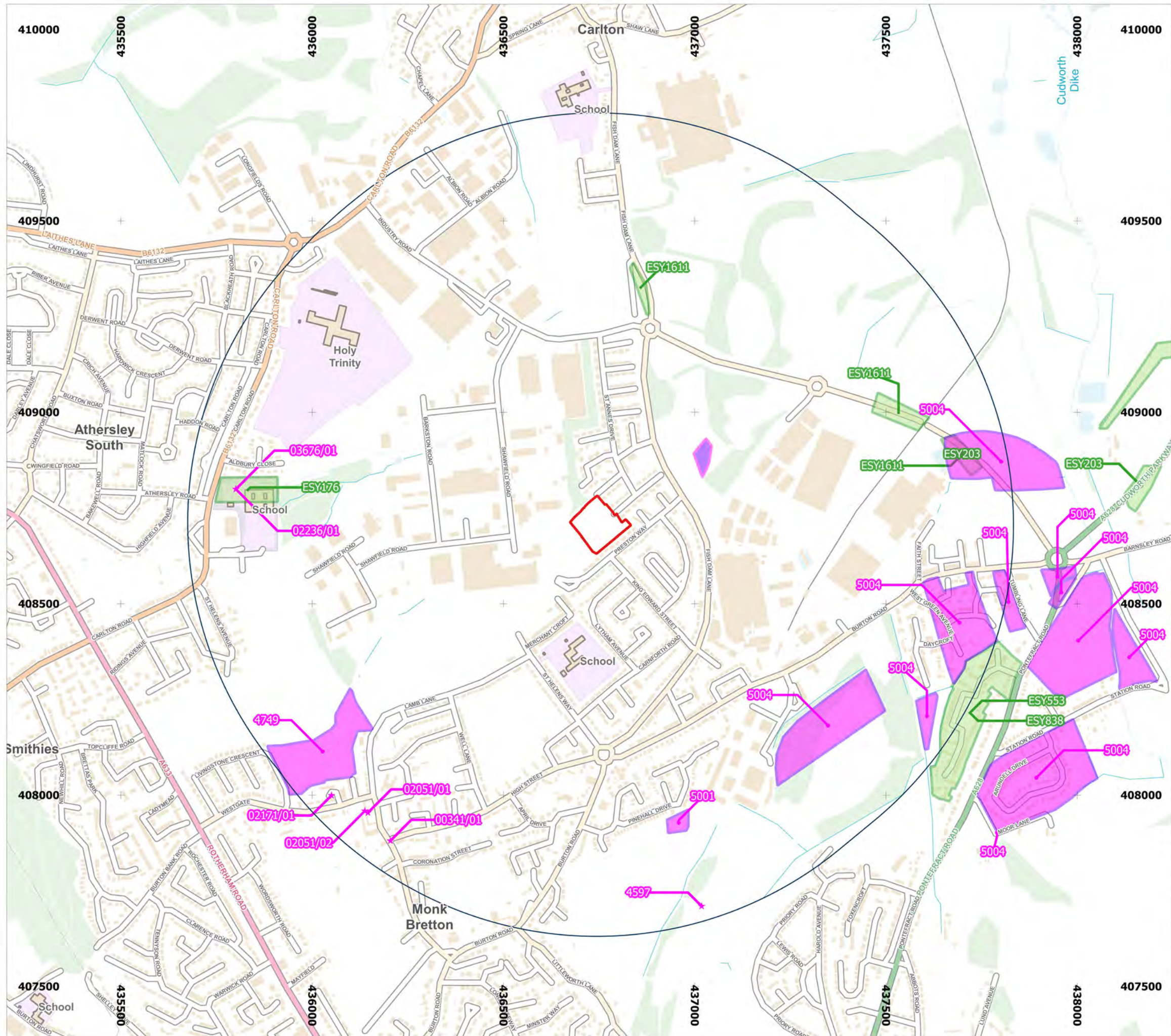
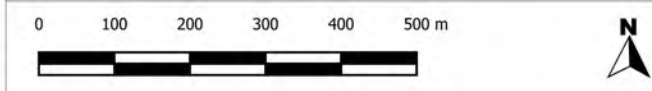


Figure 2: South Yorkshire SMR entries

- Site boundary
- 1km study area
- ★ SMR monument points
- SMR monument polygons
- Monument polygons (not on SMR)
- Event polygons

Information based upon Historic Sites & Monuments Record Data © South Yorkshire Archaeology Service 2019



Site name: St. Michael's Avenue, Monk Bretton
 Date: February 2019
 Drawn by: AB
 Scale: 1:1000 @ A3

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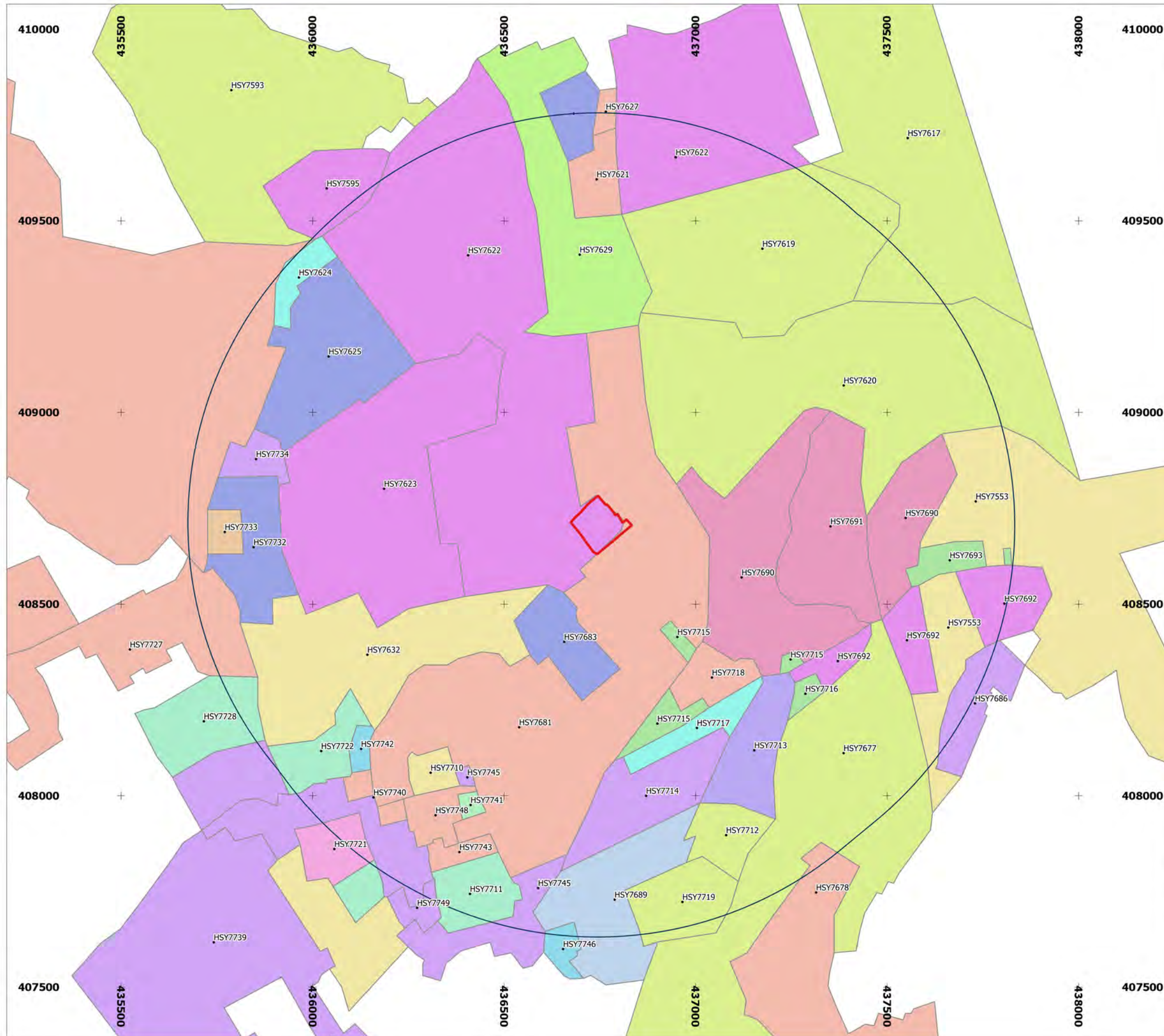
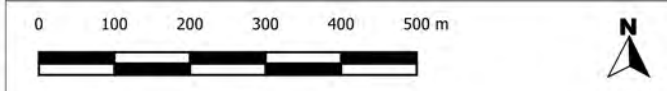


Figure 3: Historic Environment Characterisation

- Site boundary
- Agglomerated fields
- Assarts
- Business Park
- Entertainment Complex
- Glassworks
- Other Industry
- Planned Estate (Social Housing)
- Playing Fields/ Recreation ground
- Private Housing Estate
- Reclaimed Coal Mine
- Religious (Worship)
- School
- Semi-Detached Housing
- Strip Fields
- Terraced Housing
- Utilities
- Villas/ Detached Housing

Information based upon Historic Environment Characterisation data © South Yorkshire Archaeology Service 2013



Site name: St. Michael's Avenue, Monk Bretton
 Date: February 2019
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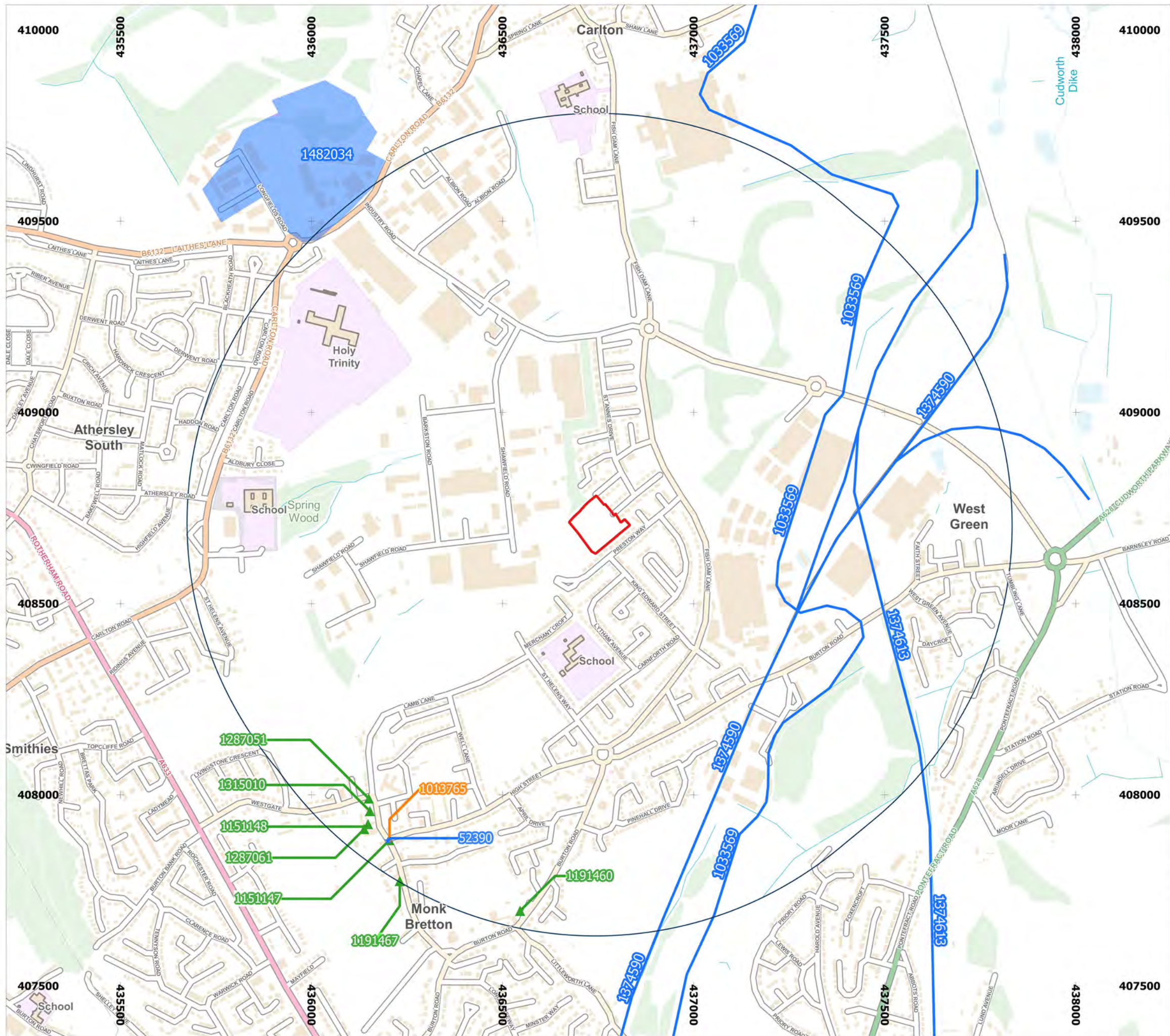
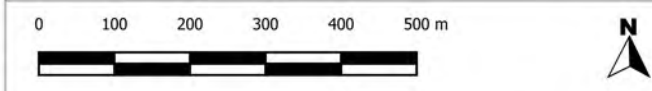


Figure 4: Historic England NRHE and NHLE entries

- Site boundary
- NRHE lines
- ★ NRHE points
- NRHE areas
- ▲ Listed Buildings (Grade II)
- Scheduled Monument

Information based upon NRHE and NHLE data © Historic England 2019. Contains Ordnance Survey data © Crown copyright and database right 2018. The Historic England GIS data contained in this material was obtained on 10.08.18.

The most publicly available up to date Historic England GIS data can be obtained from <http://www.HistoricEngland.org.uk>.



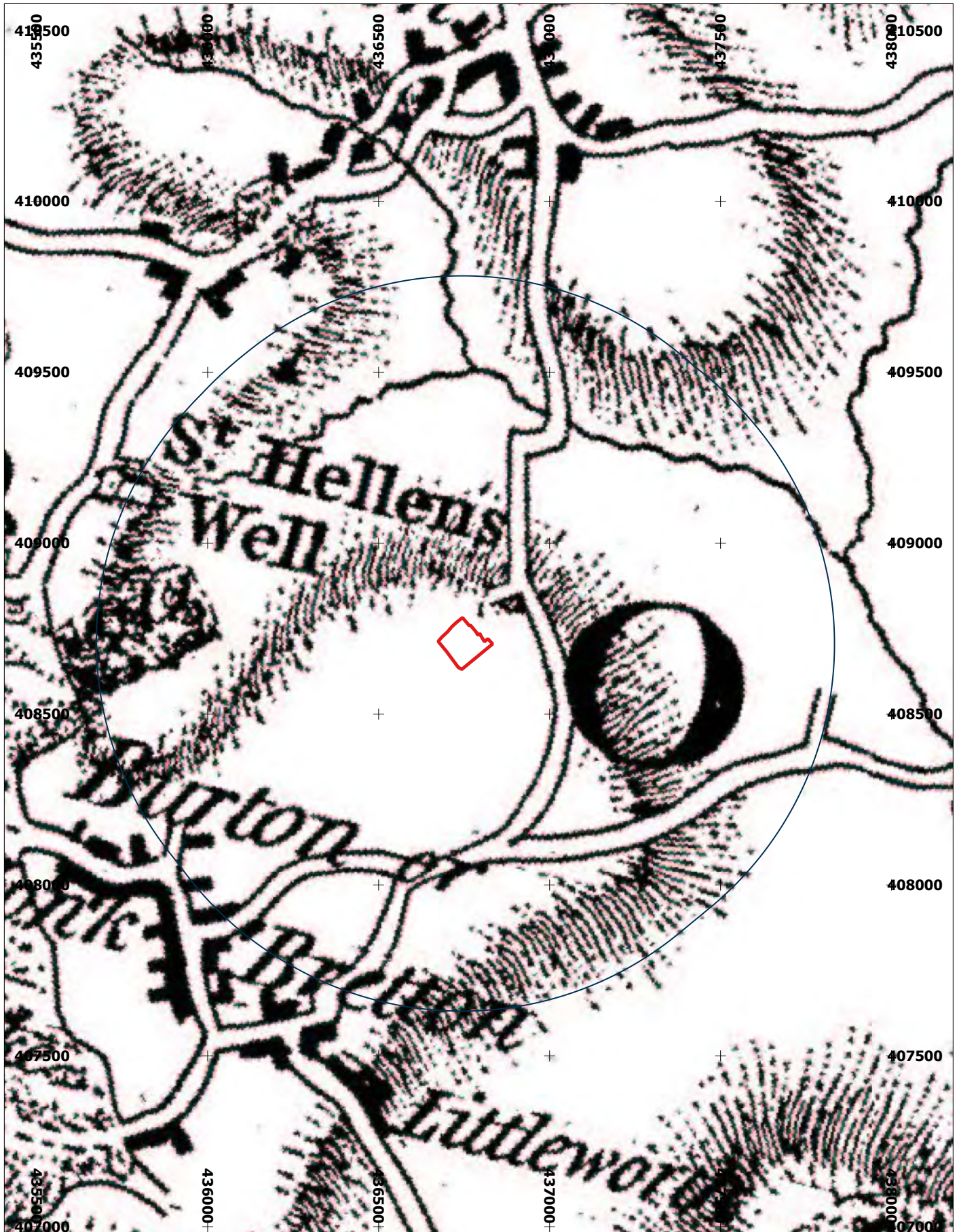
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 Date: February 2019
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Date: February 2018
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 Site boundary  1km study area



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Figure 5:
1771 - Jeffreys' Map of Yorkshire



Site name: St. Michael's Avenue, Monk Bretton
 Date: January 2018
 Drawn by: AB
 Scale: 1:2000 @ A4

 Site boundary



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Figure 6:
1788 - Monk Bretton: A map of the estate of Gideon Phillips occupied by John Crabtree



Site name: St. Michael's Avenue, Monk Bretton
 Date: February 2018
 Drawn by: AB
 Scale: 1:12500 @ A4

 Site boundary  1km study area



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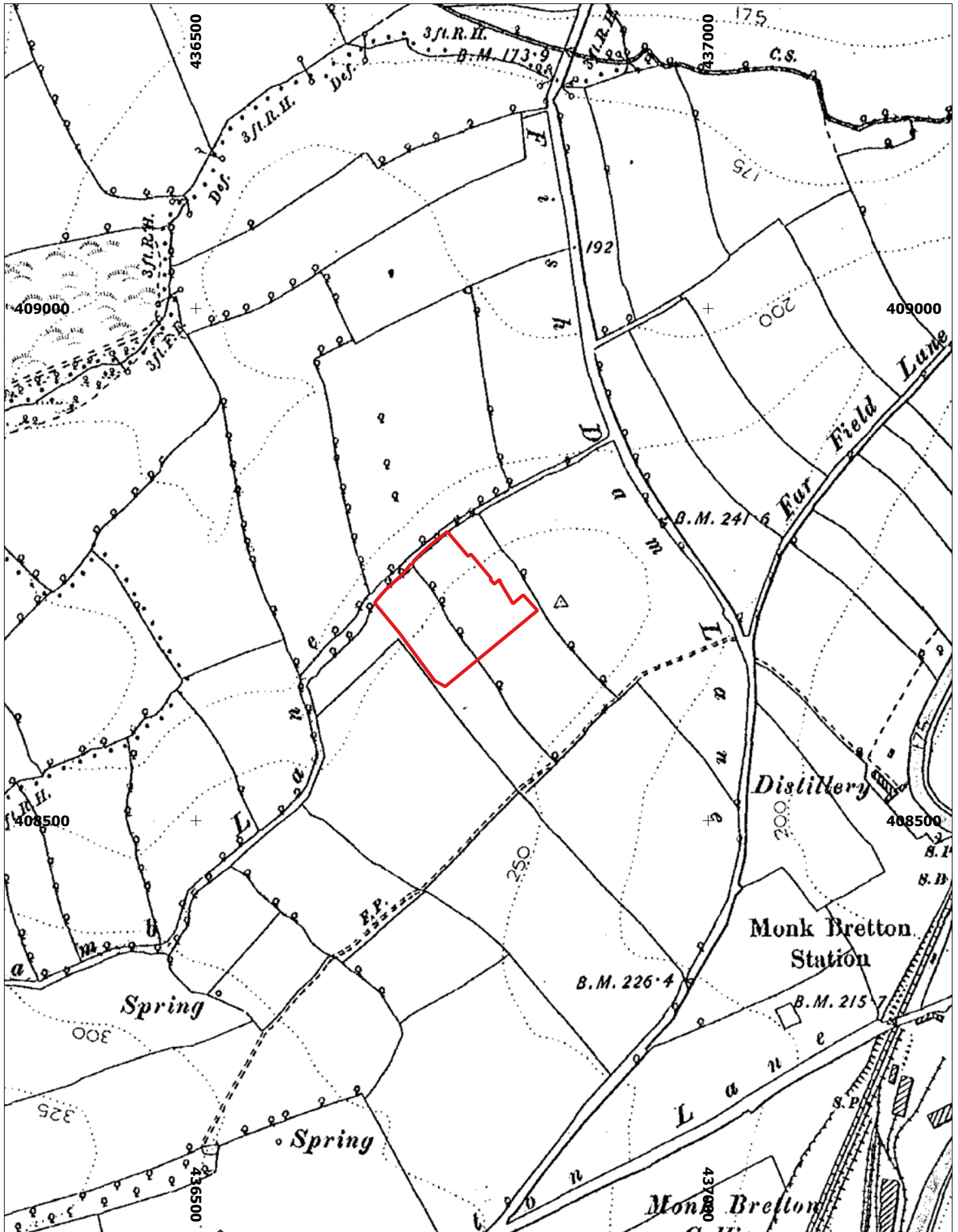
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Figure 7:
1840 - Ordnance Survey Old Series (Sheet 37 SW)



Site name: St. Michael's Avenue, Monk Bretton
 Date: February 2018
 Drawn by: AB
 Scale: 1:5000 @ A4

 Site boundary



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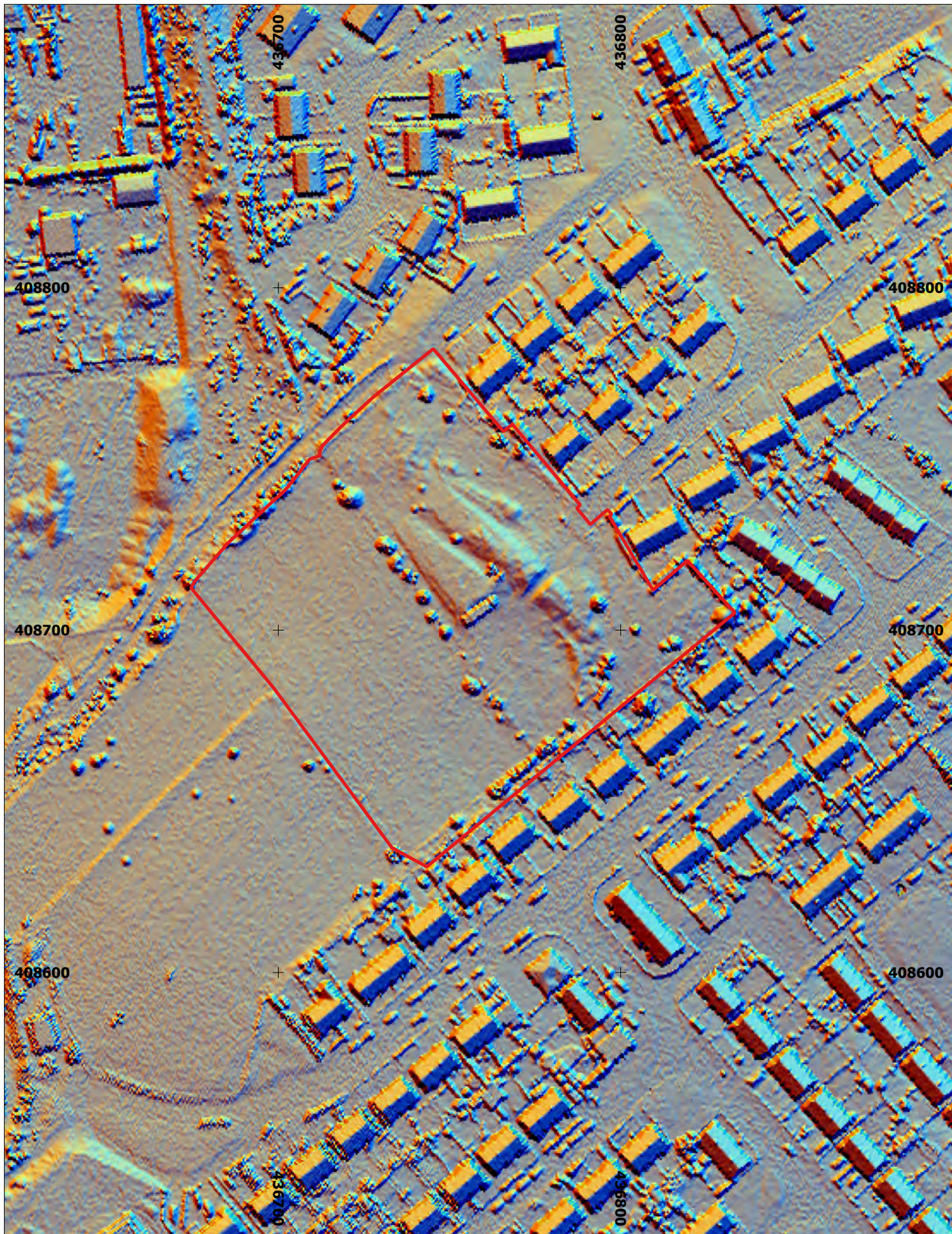


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Figure 8:
1894 - Ordnance Survey 6 inches to the mile (Sheet 274 SE)



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Date: January 2018
Drawn by: AB
Scale: 1:1500 @ A4

 Site boundary



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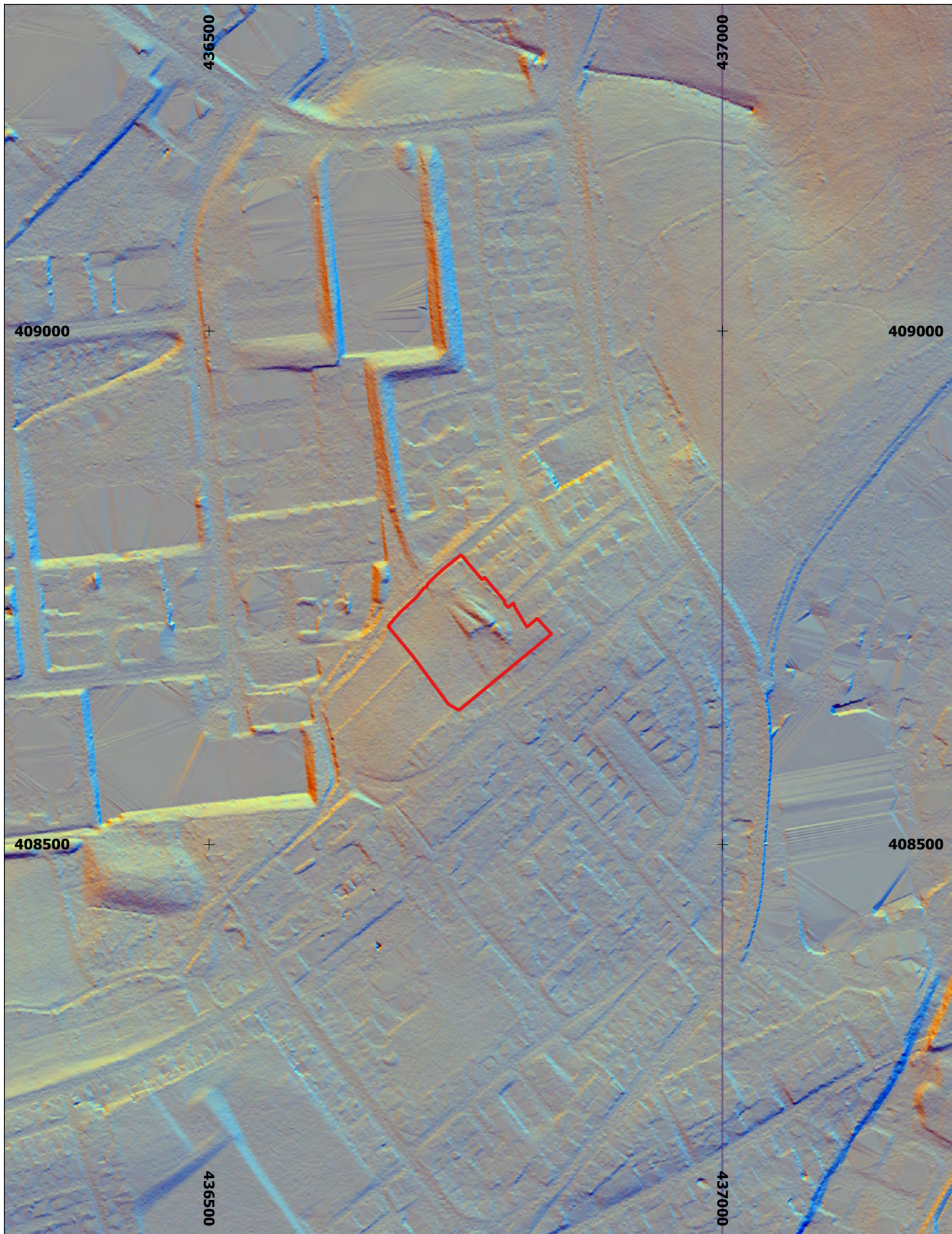
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Figure 9:
Lidar DSM @ 50cm resolution with multi-directional hillshading



Site name: St. Michael's Avenue, Monk
Bretton
Date: January 2018
Drawn by: AB
Scale: 1:5000 @ A4

 Site boundary



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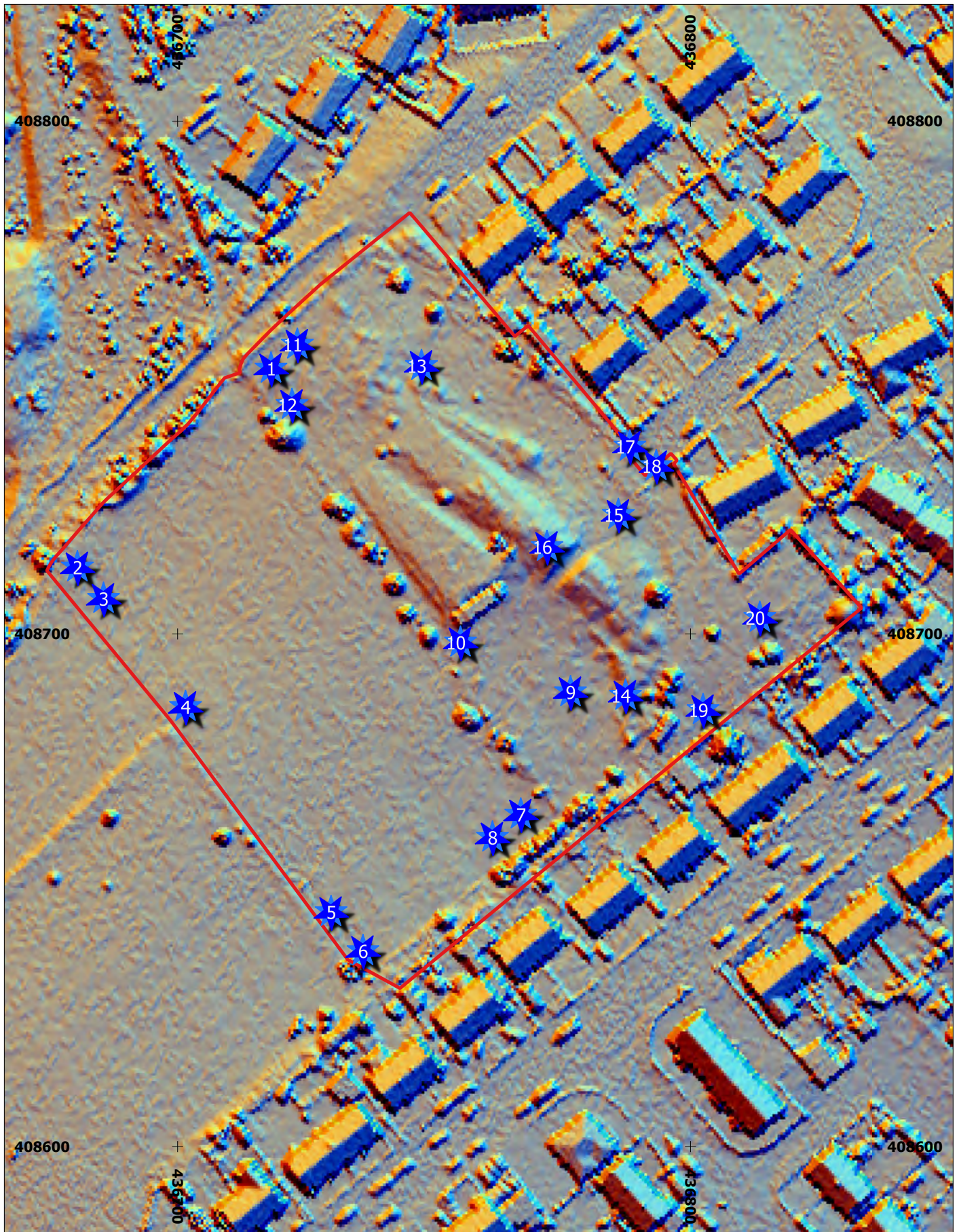


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Figure 10:
Lidar DTM @ 50cm resolution with multi-directional hillshading



Site name: St. Michael's Avenue, Monk
Bretton
Date: February 2018
Drawn by: AB
Scale: 1:1000 @ A4


 Site boundary

 Photo locations

OGL



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Figure 11:
Photo location plan

APPENDIX 8: PHOTOGRAPHS





Photograph 1

View south-west along the northern edge of Field 1 from the north-western corner of Field 2.



Photograph 2

View north-east along the northern edge of Field 1 from the north-western corner.



Photograph 3

View south-east along the western edge of Field 1 from the north-western corner.



Photograph 4

View south-east along the western edge of Field 1 from the corner of the wall foundation beneath the modern wooden fence



Photograph 5

View north-west along the western edge of Field 1 from the south-western corner.



Photograph 6

View north-east along the southern edge of Field 1 from the south-western corner.



Photograph 7

View north-west along the eastern boundary of Field 1 from the south-eastern corner.



Photograph 8

View south-east along the southern boundary of Field 1 from the south-eastern corner.



Photograph 9

View south towards the fenced off paddock occupying the south-western corner of Field 2.



Photograph 10

View north-east towards the concrete hardstanding in the central area of Field 2.



Photograph 11

View north-east along the northern boundary of Field 2.



Photograph 12

View south-east along the tree-lined boundary separating Fields 1 and 2.



Photograph 13

View south-east along the soil bund in Field 2.



Photograph 14

View north-west along the soil bund in Field 2.



Photograph 15

View south-west along the pathway cutting through the soil bund in Field 2.



Photograph 16

General view south-west across towards Field 1 from the soil bund in Field 2.



Photograph 17

View north-west along the eastern boundary of the PDA from St. Michael's Avenue.



Photograph 18

View south-east from St. Michael's Avenue into the fenced-off paddock area at the eastern side of Field 2.



Photograph 19

View west towards the metal containers with the eastern paddock in Field 2.



Photograph 20

View east towards the south-eastern corner of the paddock in Field 2.