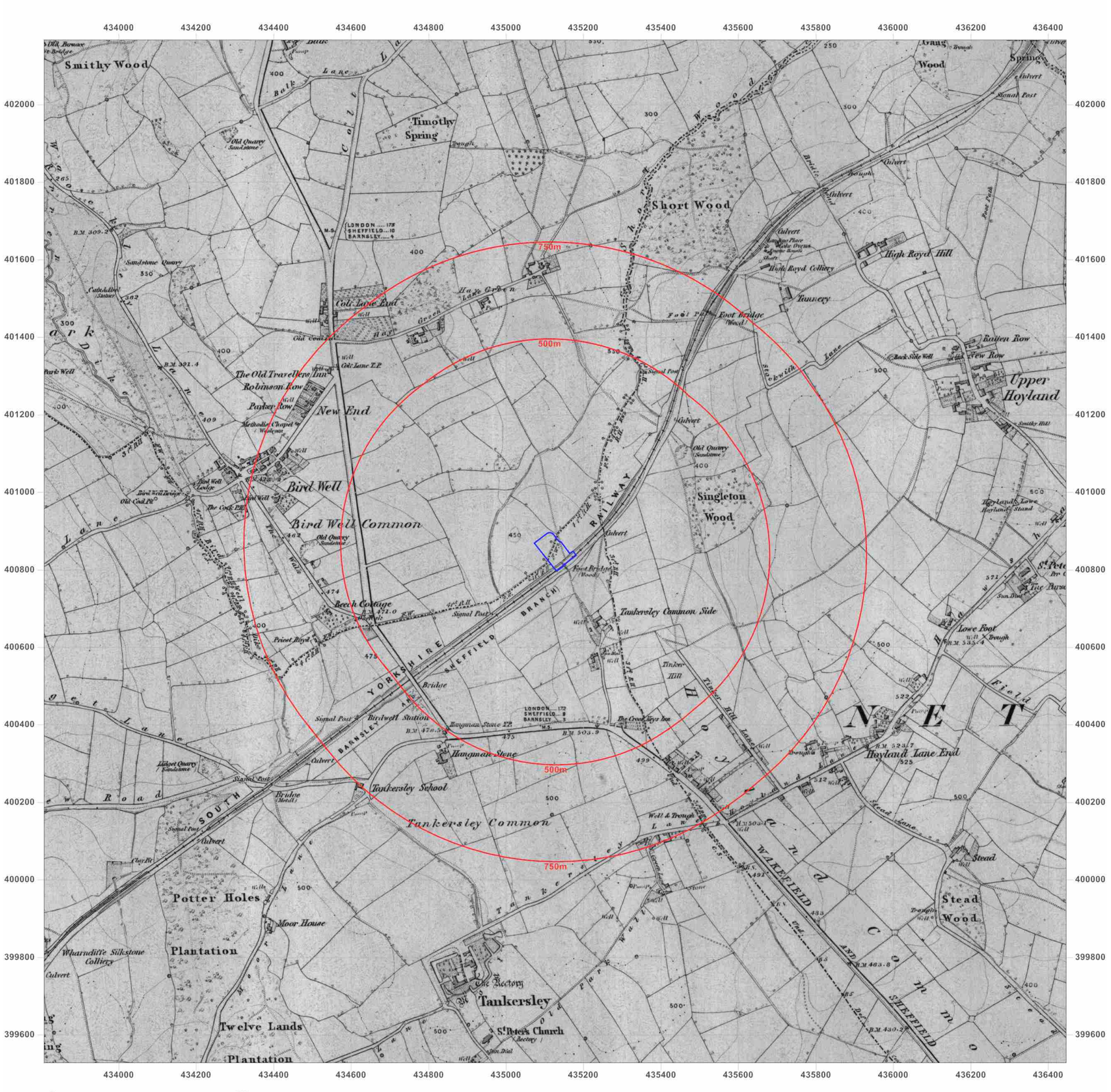
APPENDIX 5



Groundsure INSIGHTS

Site Details:

UNIT 7, KESTREL WAY,
BIRDWELL, BARNSLEY, S70
5SZ

Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: County Series

Map date: **1855**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1851
Revised N/A
Edition 1855
Copyright N/A
Levelled N/A

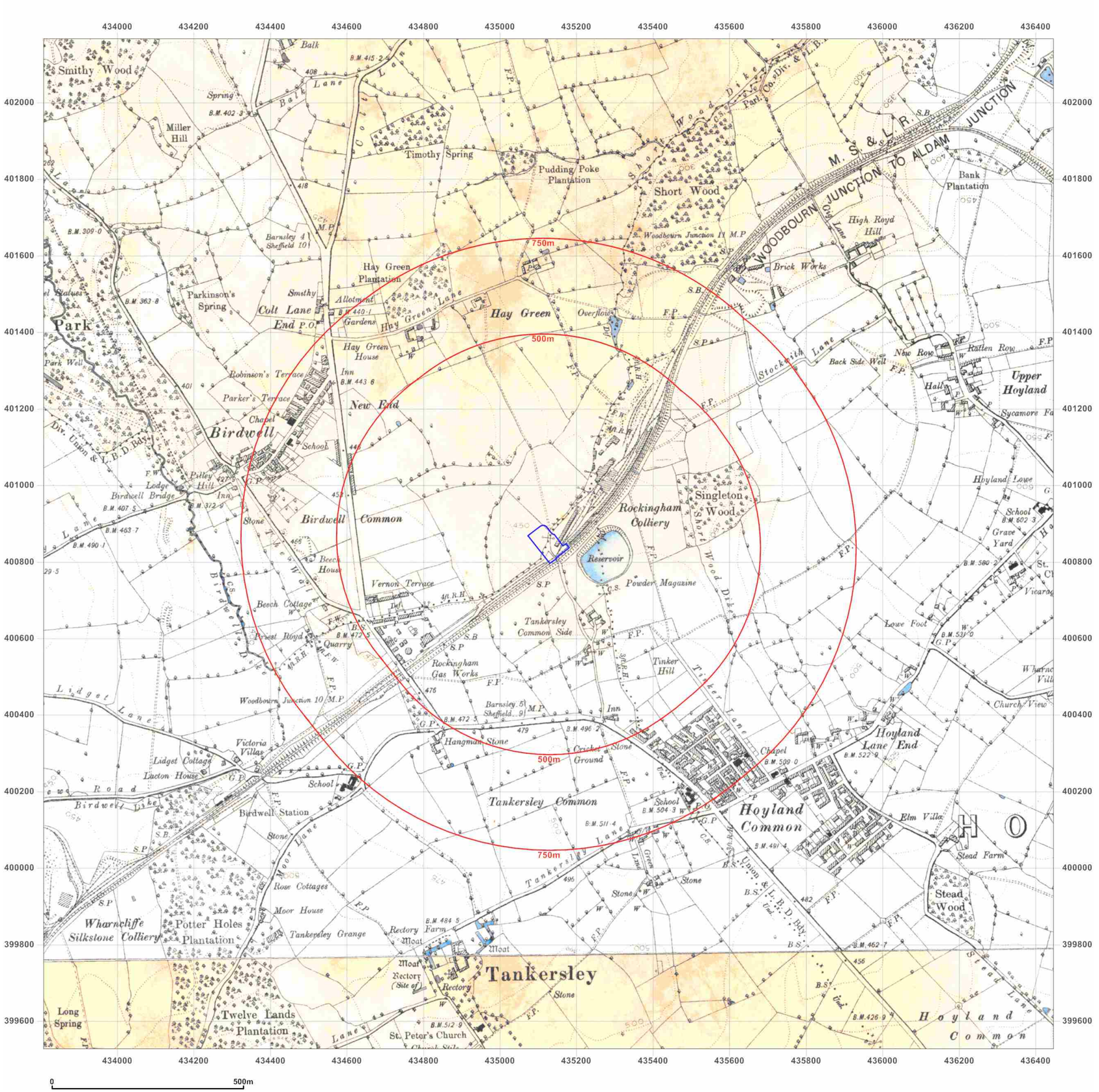
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Site Details:

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5SZ

Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: County Series

Map date: **1891-1894**

Scale: 1:10,560

Printed at: 1:10,560

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

Surveyed 1891
~~Revised N/A~~
Edition 1894
Copyright N/A
Levelled N/A

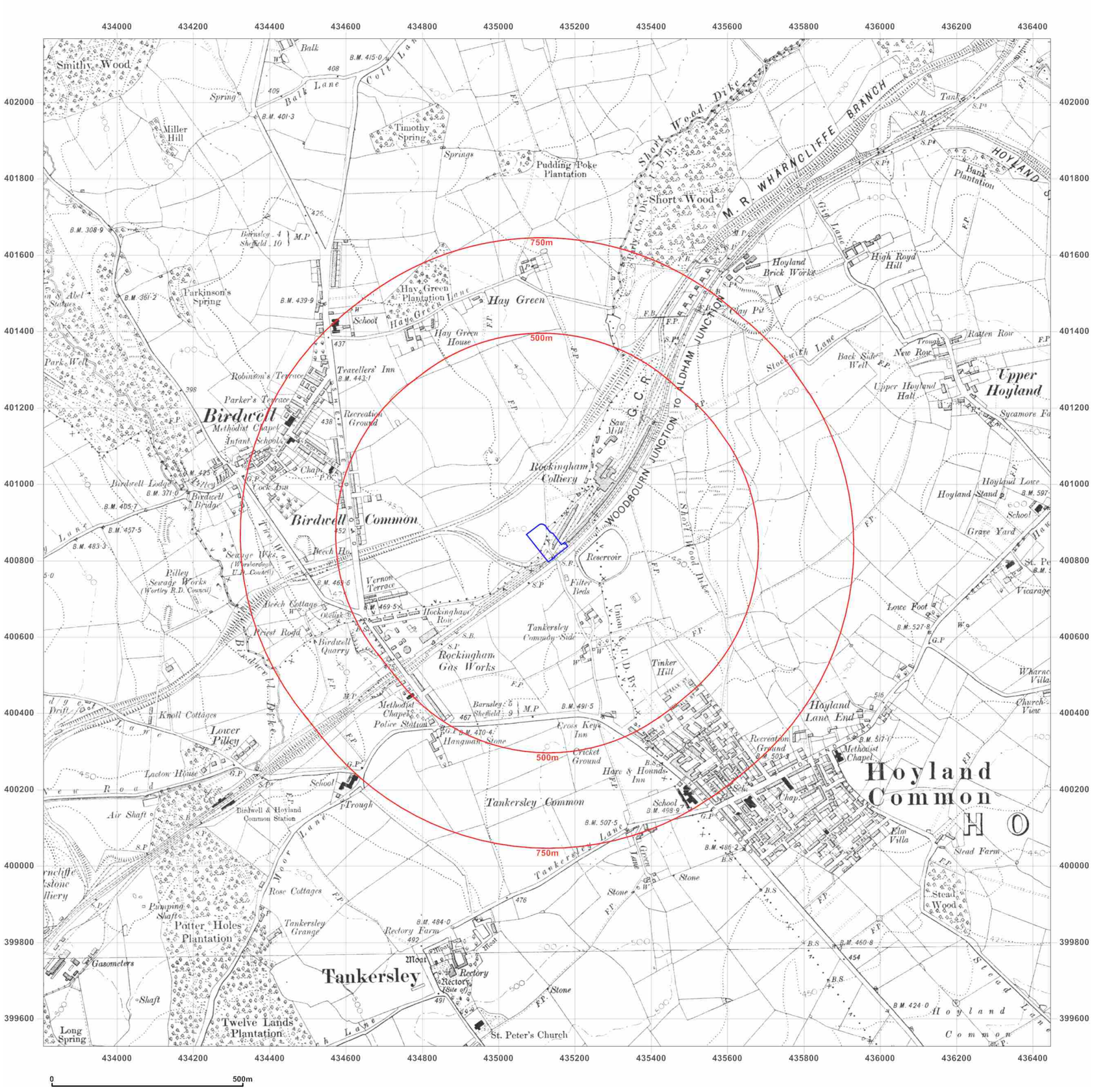
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5SZ

Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: County Series

Map date: **1903**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1891
Revised 1903
Edition 1903
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1903
Edition 1903
Copyright N/A
Levelled N/A

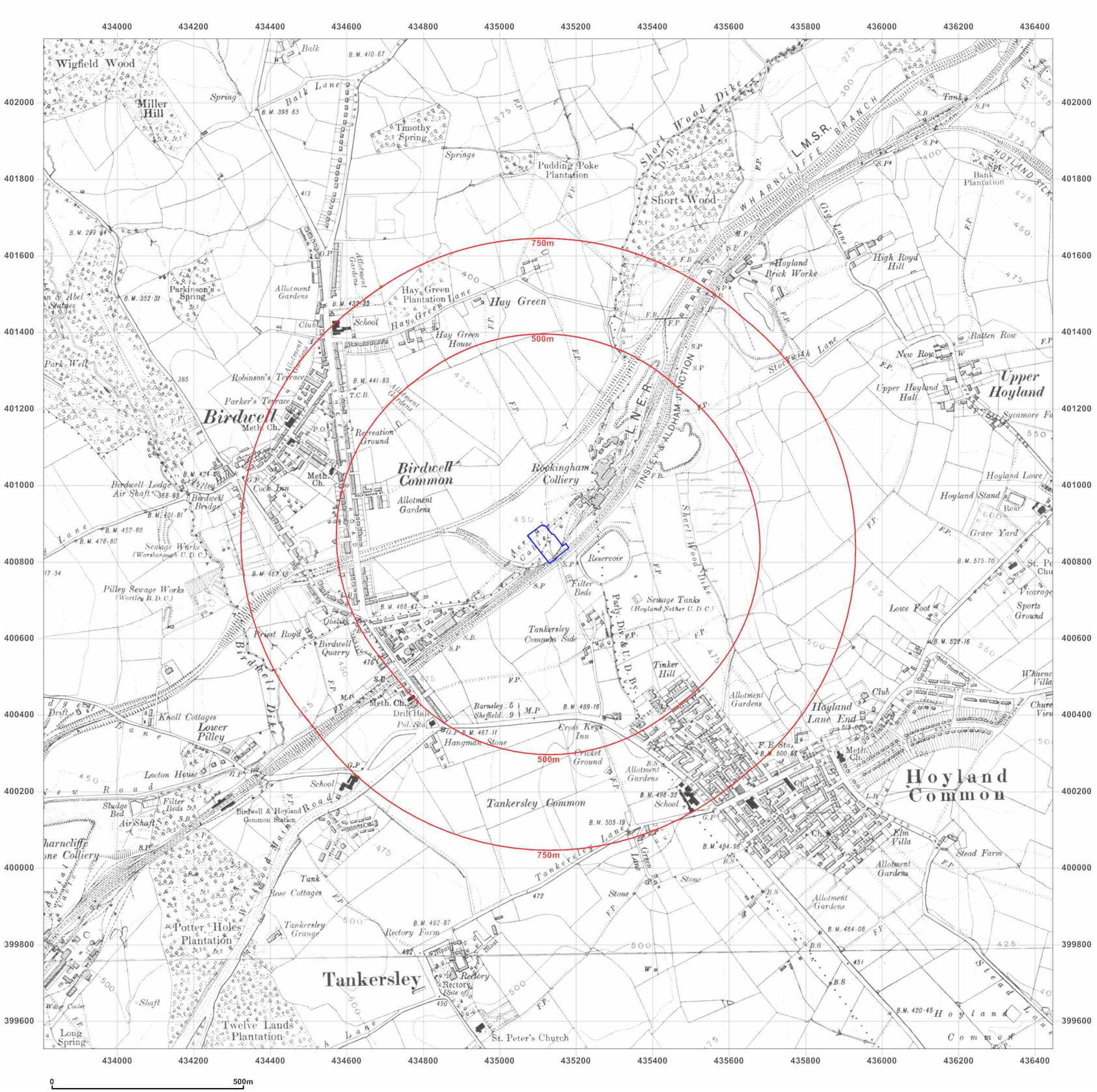
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5SZ

Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: County Series

Map date: **1929**

Scale: 1:10,560

Printed at: 1:10,560

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Revised 1929
Edition 1929
Copyright N/A
Levelled 1915

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

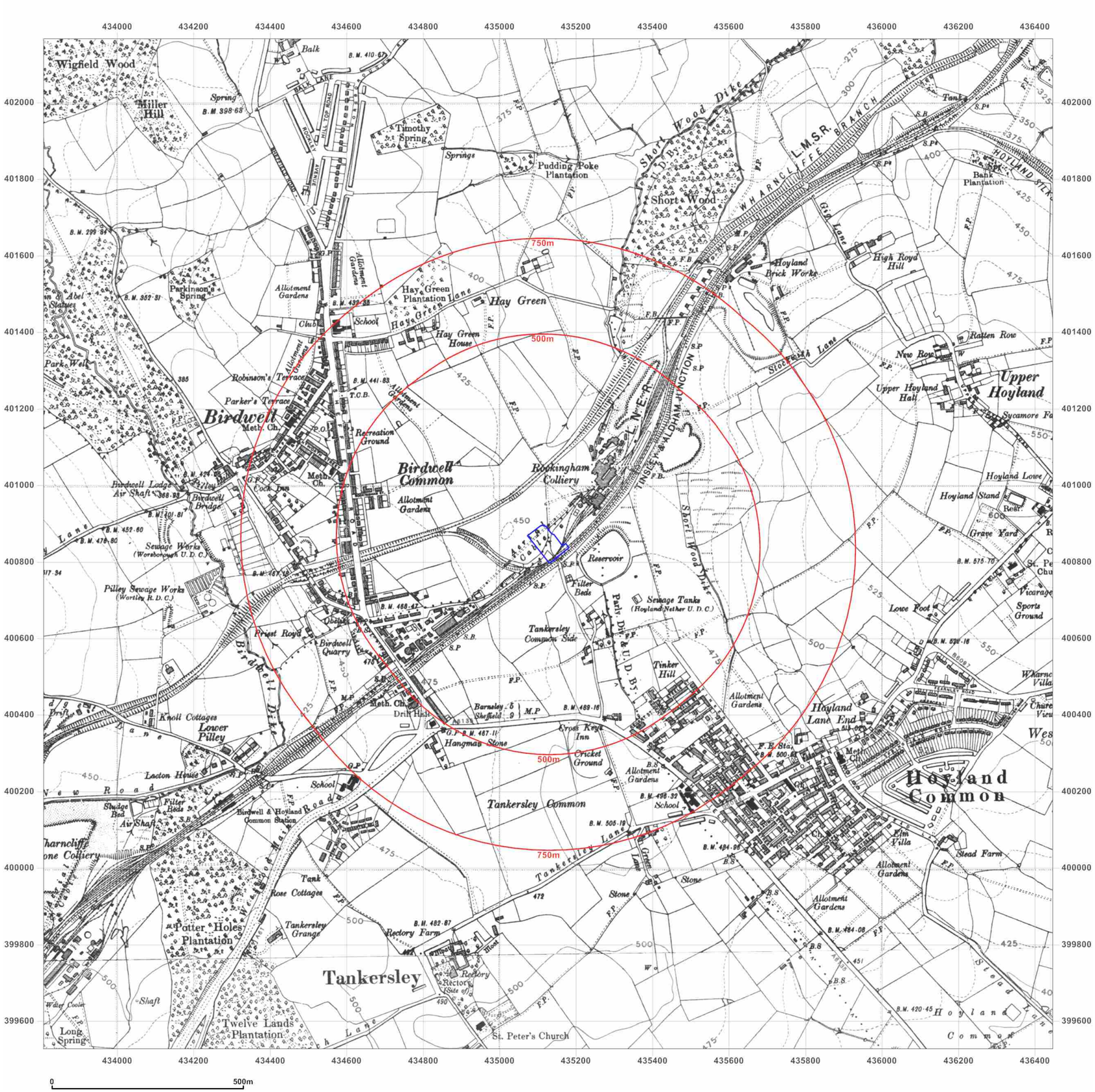
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Site Details:

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5SZ

Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1851
Revised 1938
Edition 1938
Copyright N/A
Levelled 1929

Surveyed 1851
~~Revised 1938~~
Edition 1938
Copyright N/A
Levelled 1929

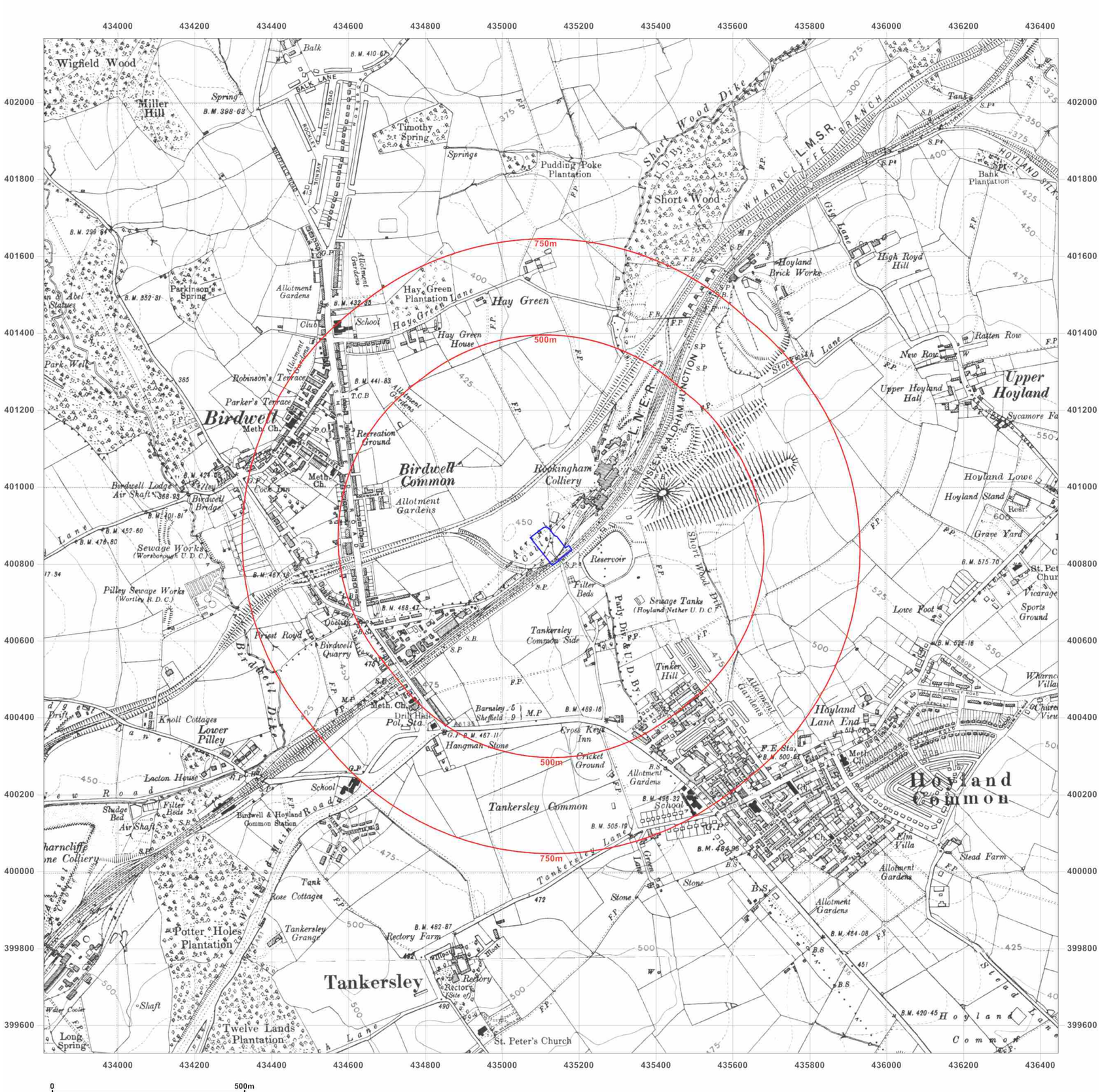
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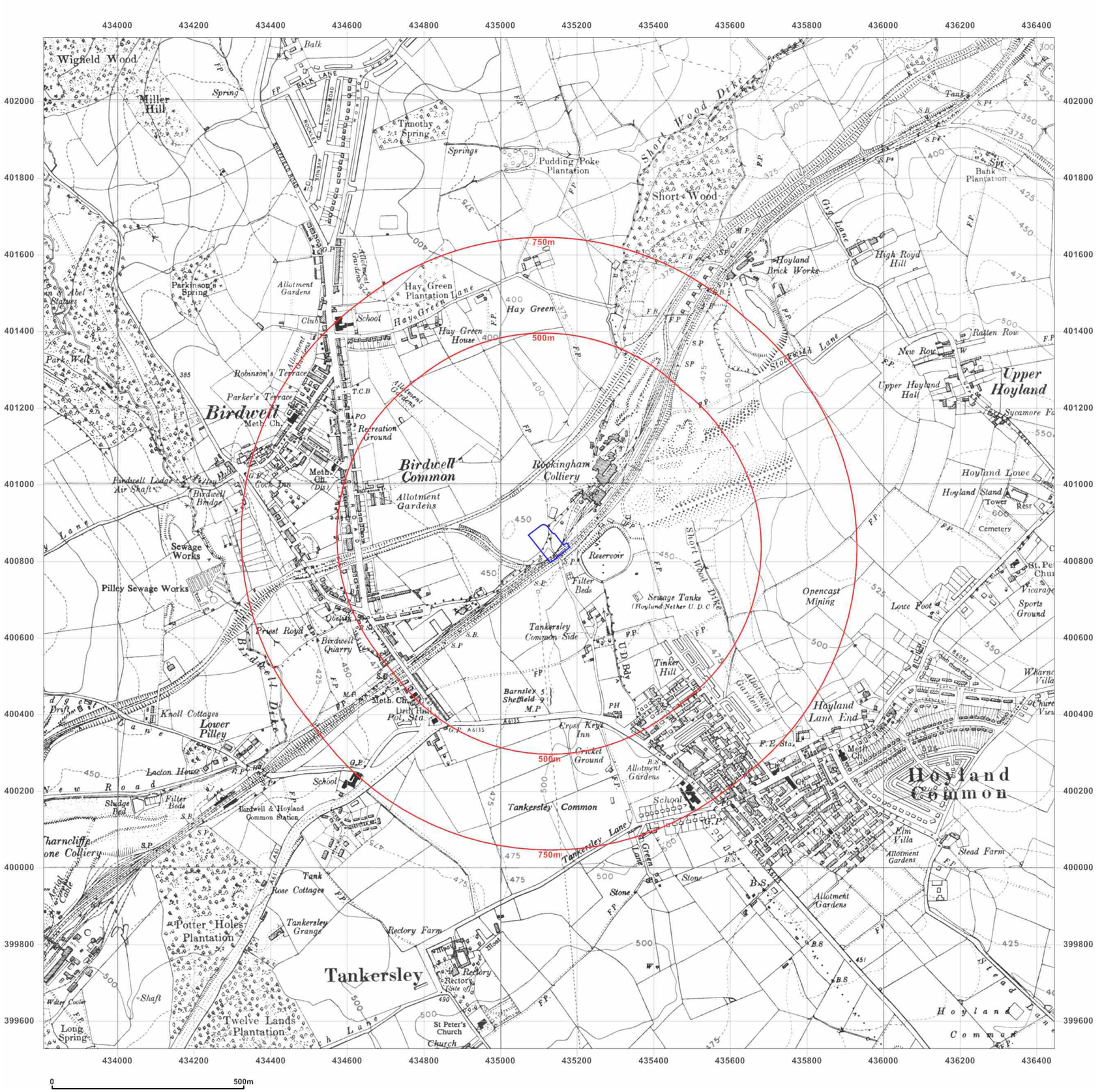
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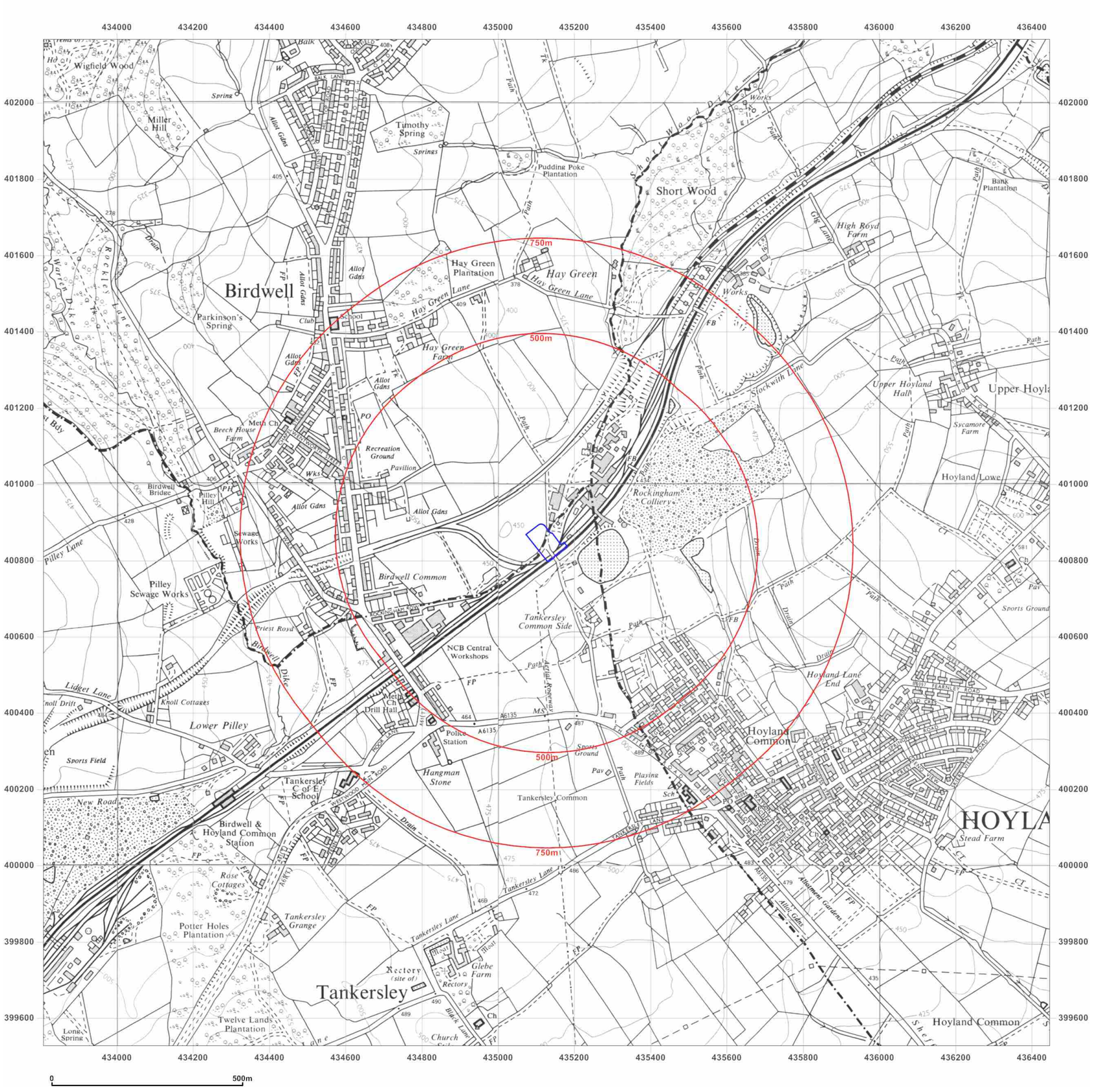
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750m
500m
500m
750m
Birdwell
Birdwell Common
Hay Green
Hoyland Common
Upper Hoyland
Tankersley
Tankersley Common
Wigfield Wood
Short Wood
Rookingham Colliery
Lower Pilley
Pilley Sewage Works
Potter Holes Plantation
Twelve Lands Plantation
Hoyland Lane End
Hoyland Brick Works
Pudding Poke Plantation
Hay Green Plantation
Lane
Birdwell Quarry
Tankersley Grange
Rose Cottages
Knoll Cottages
Lacton House
Rectory Farm
St. Peter's Church
Cross Keys Inn
Cricket Ground
Hangman Stone
Recreation Ground
Allotment Gardens
Reservoir
Filter Beds
Sewage Tanks
Tinker Hill
Elm Villa
Stead Farm
Sycamore Farm
Grave Yard
Sports Ground
Vicarage
Rectory
Rectory (Site of)
Meth. Ch.
School
Club
Cock Inn
Hoyland Nether U.D.C.
Barnsley & Sheffield
Birdwell & Hoyland Common Station
Short Wood Dike
Tankersley Lane
Hay Green Lane
Gig Lane
Storrs Lath Lane
Rotten Row
New Row
Upper Hoyland Hall
Hoyland Lowe
Hoyland Stand
Lowe Foot
Bank Plantation
Parkinson's Spring
Timothy Spring
Miller Hill
Park Well
Robinson's Terrace
Parker's Terrace
Birdwell Lodge Air Shaft
Birdwell Bridge
Sewage Works (Worsbrough U.D.C.)
Long Spring
Shaft
Water Cocin
Sludge Bed
Air Shaft
Tank
Stone
Green Lane
Hoyland
Hoyland
Hoyland


750m
500m
500m
750m
Birdwell
Birdwell Common
Rookingham Colliery
Tankersley
Tankersley Common
Hoyland Common
Upper Hoyland
Lower Pilley
Pilley Sewage Works
Wigfield Wood
Short Wood
Hay Green
Hay Green Plantation
Pudding Poke Plantation
Hoyland Brick Works
Opencast Mining
Reservoir
Sewage Works
Allotment Gardens
Recreation Ground
Cricket Ground
Sports Ground
Cemetery
Rectory
St Peter's Church
Church
Tankersley Grange
Rectory Farm
Potter Holes Plantation
Twelve Lands Plantation
Birdwell & Hoyland Common Station
Meth. Ch.
School
Club
Pilley Hall
Lacon House
Cross Keys Inn
Tinker Hill
Hoyland Lane End
Hoyland Lowe
Upper Hoyland Hall
Sycamore Fa
Stead Farm
Kim Villa
Lowe Foot
High Royd Hill
Rotten Row
New Row
Tankersley Lane
Stockfield Lane
Gig Lane
Short Wood Dike
Birdwell Dike
Pilley Hall Lane
Hay Green Lane
Newhill Road
Barnsley Sheffield M.P.
Tank
Spring
Timothy Spring
Parkinson's Spring
Long Spring
Water Cooler
Shaft
Birdwell Lodge Air Shaft
Birdwell Bridge
Cock Inn
Priest Royd
Birdwell Quarry
Knoll Cottages
Rose Cottages
Parker's Terrace
Robinson's Terrace
Park Wells
St Abel Statues
Filter Beds
Sludge Bed
Obelisk
Stone
Bank Plantation
Hoyland Stand
Tower
Resr
Wharncliffe Villa
Vicarage
Church View
Lonce Foot
Steel Lane
Hoyland Common
Tankersley Common Side
Barnsley Sheffield M.P.
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Meth. Ch.
Derb. Hist. Pol. Sta.
P.O.
T.C.B
G.P.
P.H.
F.E. Sta.
U.D. Bdy
Allotment Gardens
Allotment Gardens
Allotment Gardens



Groundsure INSIGHTS

Site Details:

UNIT 7, KESTREL WAY,
BIRDWELL, BARNSLEY, S70
5SZ

Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: Provisional

Map date: **1965-1966**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

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

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

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Revised 1965
Edition N/A
Copyright 1965
Levelled N/A

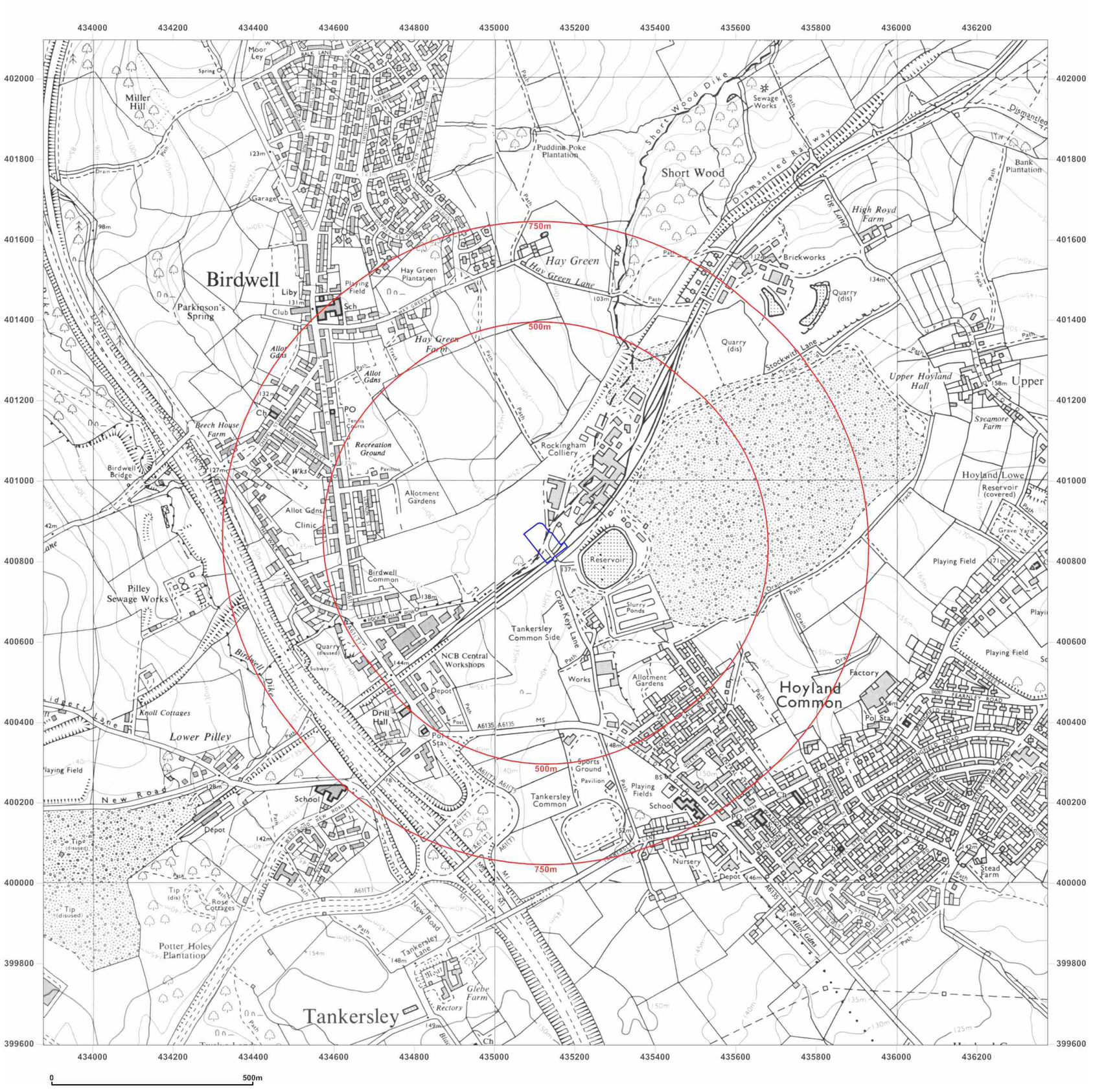
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Site Details:

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Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: National Grid

Map date: **1977-1980**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1973
Revised 1977
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1976
Revised 1977
Edition N/A
Copyright 1978
Levelled 1978

Surveyed 1980
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1979
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Levelled 1981

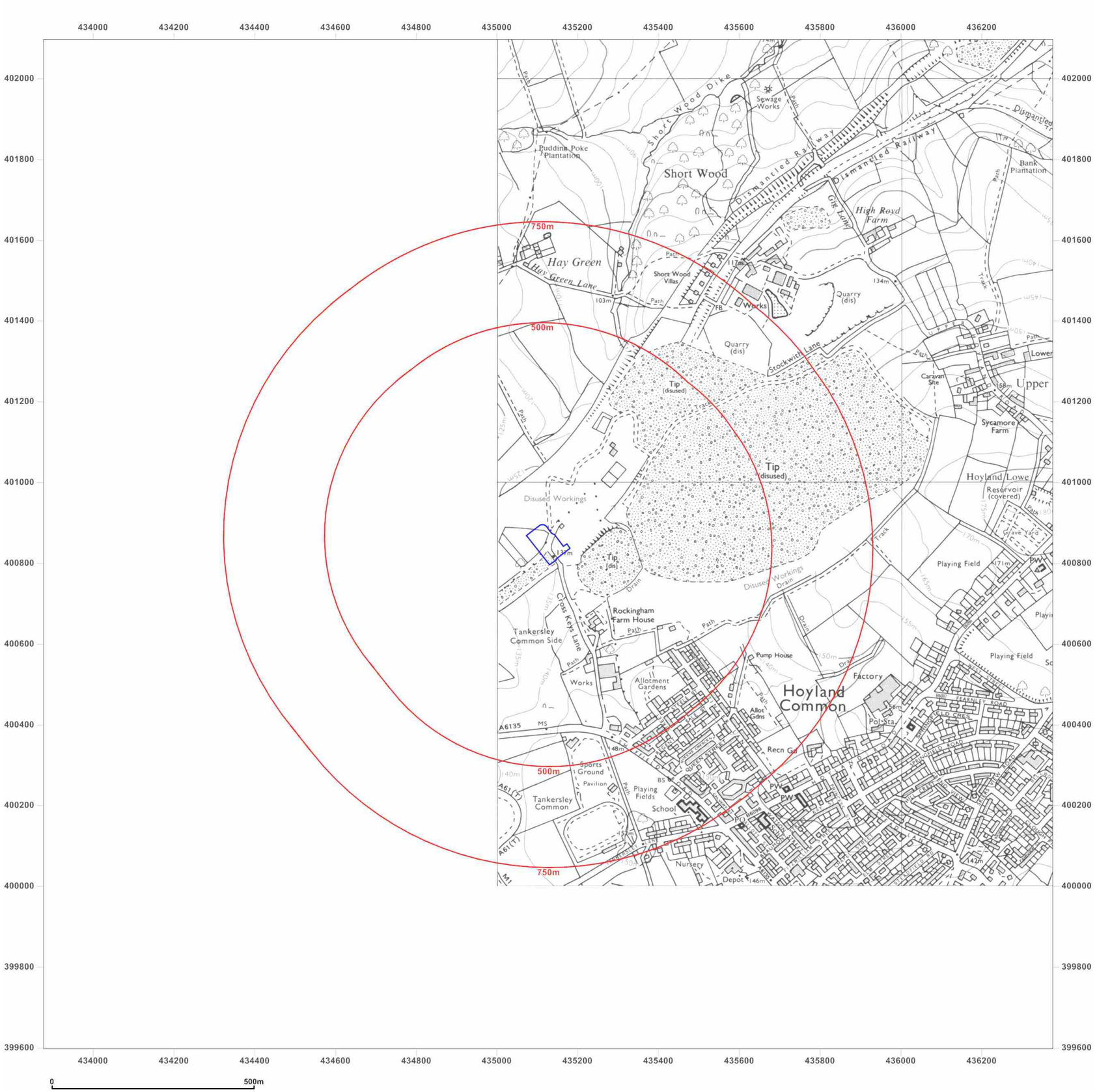
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UNIT 7, KESTREL WAY,
BIRDWELL, BARNSLEY, S70
5SZ

Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: National Grid

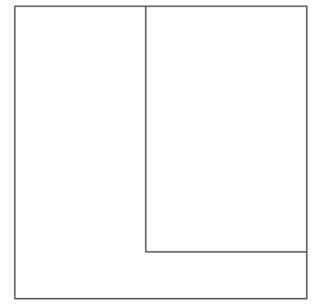
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Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1986
Revised 1987
Edition N/A
Copyright 1988
Levelled 1978



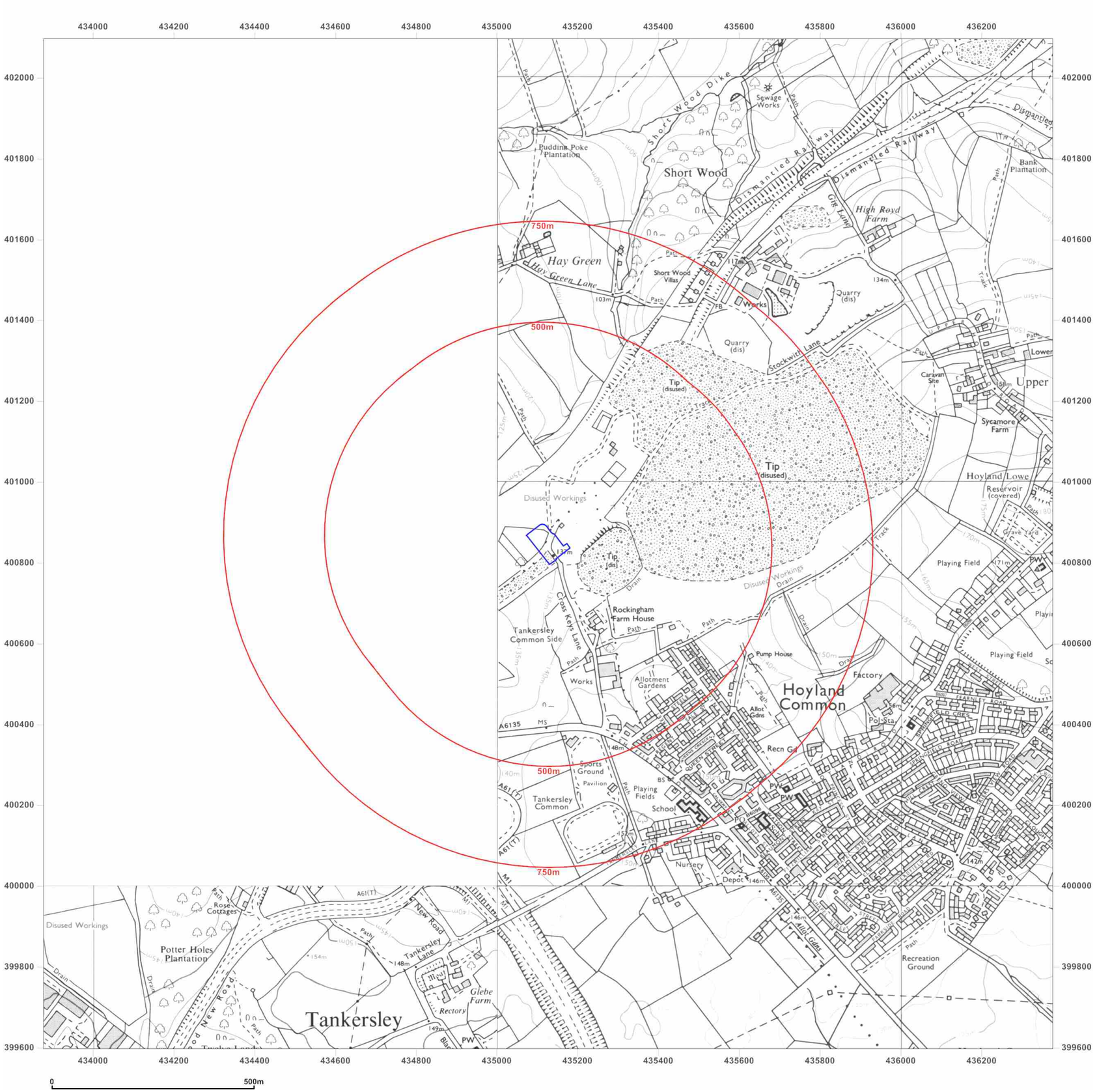
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5SZ

Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: National Grid

Map date: **1987-1992**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1986
Revised 1987
Edition N/A
Copyright 1988
Levelled 1978

Surveyed 1991
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

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Revised 1991
Edition N/A
Copyright 1991
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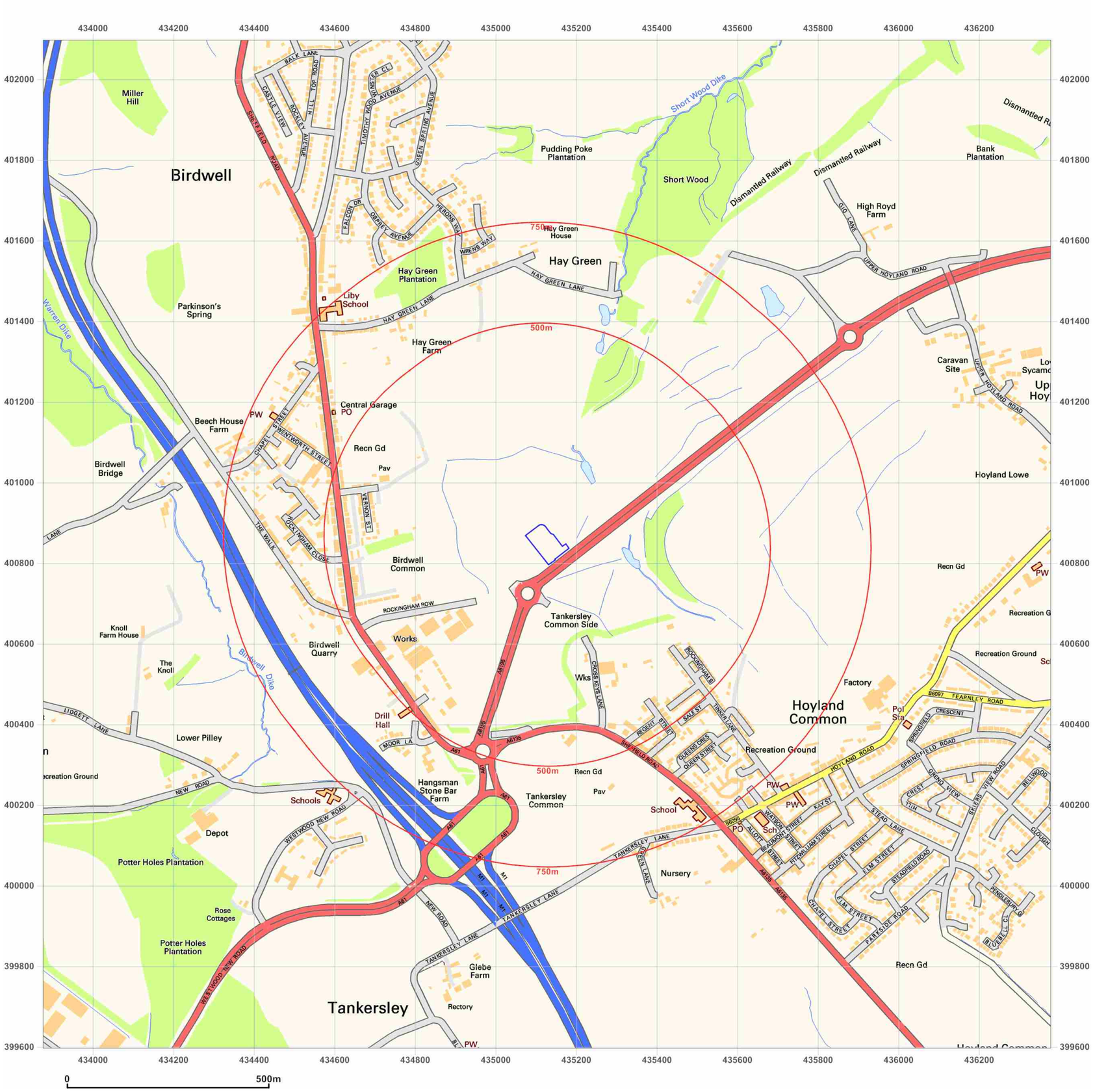
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Site Details:

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5SZ

Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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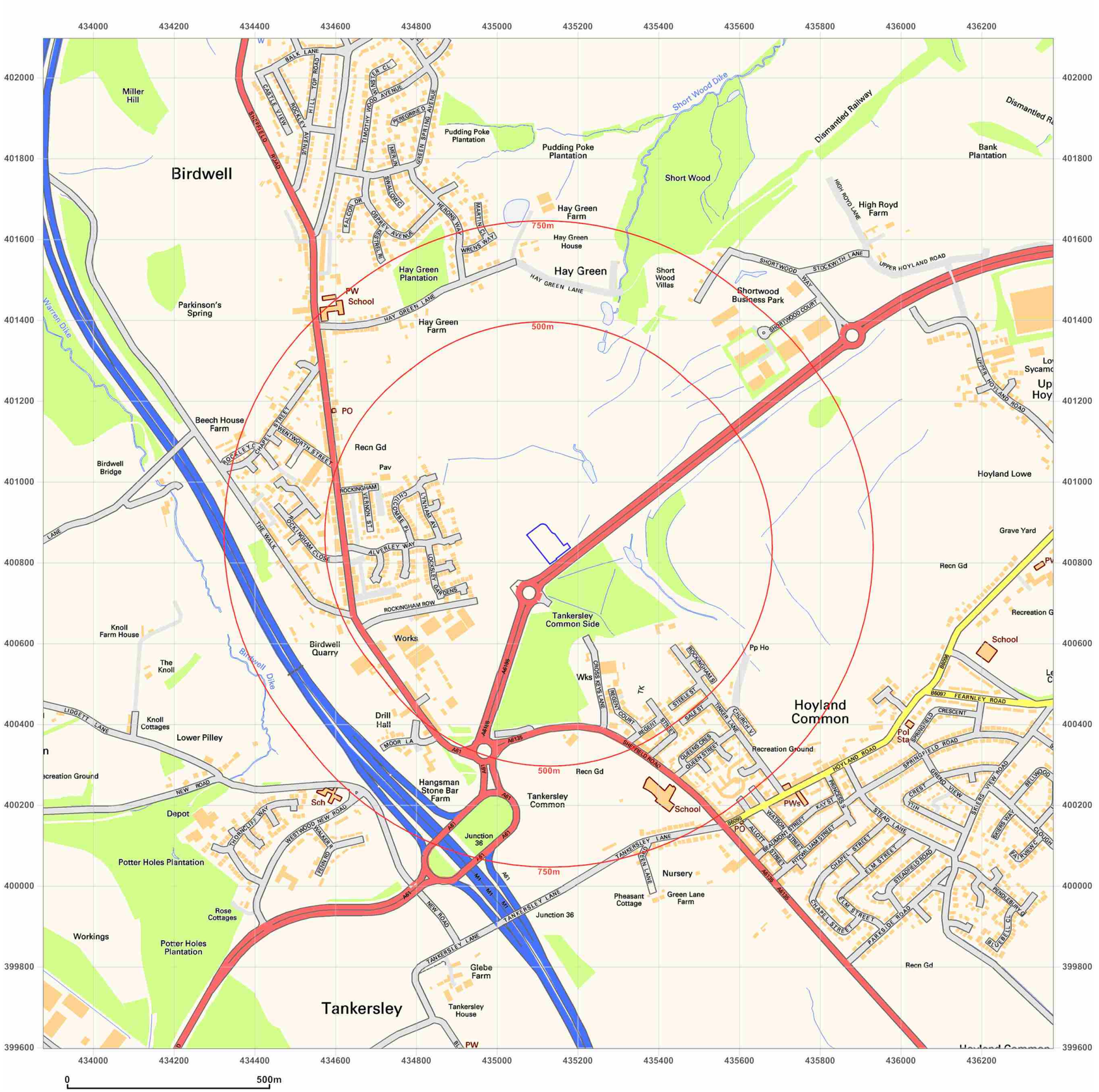
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Site Details:

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Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

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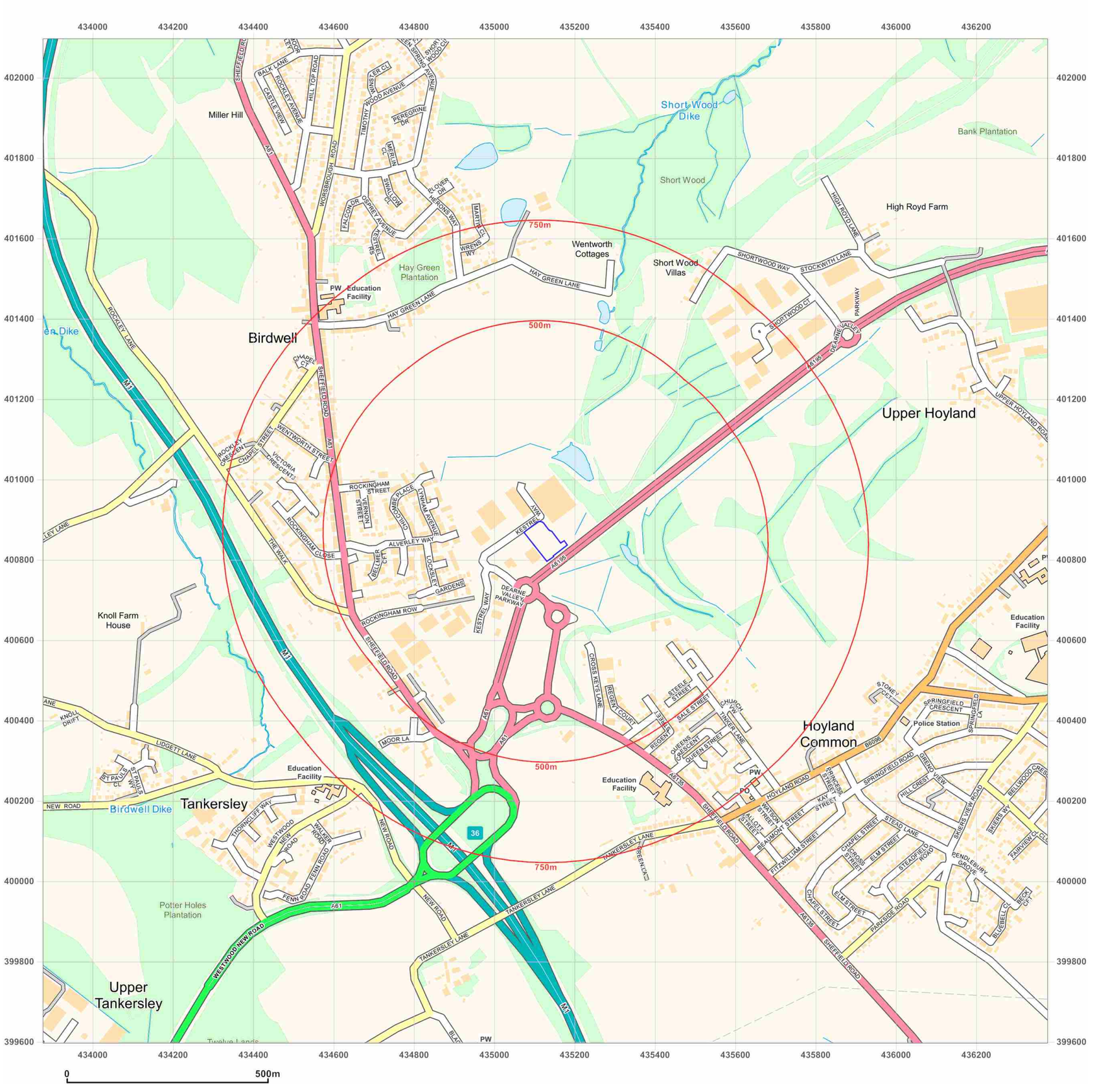
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Site Details:

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5SZ

Client Ref: 2023-20
Report Ref: GS-6831507
Grid Ref: 435126, 400846

Map Name: National Grid

Map date: **2020**

Scale: 1:10,000

Printed at: 1:10,000

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APPENDIX 6

DEFINITIONS USED IN RISK EVALUATION

This Appendix provides definitions of the terms used in the classification of harm, probability of a pollutant linkage becoming established, and classification of overall risk, as described in CIRIA Report C552[1]

CLASSIFICATION OF CONSEQUENCE/HARM

Table A, reproduced from CIRIA C552 (Table 6.3)[1], provides definitions of the terms used in the classification of consequence. Hazards are classed according to the magnitude of the potential consequence (severity) when reaching a receptor. This is known as environmental harm and can be classified as minor, mild, medium or severe.

Table A. Classification of Consequence/Harm

Classification	Definition	Examples
Severe	Short-term (acute) risk to human health likely to result in 'significant harm' as defined by the Environmental Protection Act 1990, Part IIA/ Short-term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from a site into controlled water. Explosion causing building collapse.
Medium	Chronic damage to Human Health ('Significant Harm' as defined in DETR (2000)). Pollution of sensitive water resources. A significant change in a particular ecosystem, or organism forming part of such ecosystem.	Concentrations of a contaminant exceed generic or site specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer. Death of a species within a designated nature reserve.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in the '*draft circular of contaminated land'*, DETR 2000). Damage to sensitive buildings/structures/services or the environment.	Pollution of non-classified groundwater. Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent effects to human health (easily prevented by means such as PPE). Easily repairable effects/damage to buildings, structures and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discolouration of concrete.

[1] Rudland, D., Lancefield, R.M., Mayel, P.N. (2001) "Contaminated land Risk Assessment: A guide to good practice. CIRIA C552. UK.

CLASSIFICATION OF PROBABILITY

The likelihood that receptors could be affected by on site contaminants, if present, is classified using CIRIA C552 (Table 6.4) [1]. Table B, reproduced from CIRIA C552, provides definitions of the terms used when assessing the likelihood of a pollution linkage becoming established.

Table B. Classification of Probability

Classification	Definition
High Likelihood	There is a pollution linkage and an event that either appears very likely in the short-term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all of the elements are present and in the right place, which means it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long term.
Low Likelihood	There is a pollutant linkage and circumstances are possible under which an event could occur, however it is by no means certain that even over a longer period that such an event would take place, and it is less likely in the shorter term.
Unlikely	There is a pollutant linkage, but circumstances are such that it is improbable that an event would occur even in the very long term.

RISK ASSESSMENT

The risk categories are assessed based upon the consequence vs. probability assigned to each scenario, based upon guidance originally produced by the DETR (2000). Table C shows a reproduction of the risk matrix (Table 6.5) as published in CIRIA C552, which is used to evaluate the overall risk to each identified receptor on the basis of consequence v probability. Table D records the definition of each of the risk categories, and is reproduced from Table 6.6 in CIRIA C552.

Table C. Classification of Consequence v Probability

		Consequence			
Probability		**Severe**	**Medium**	**Mild**	**Minor**
	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate/Low Risk
	Likely	High Risk	Moderate Risk	Moderate/Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate/Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate/Low Risk	Low Risk	Very Low Risk	Very Low Risk

Table D. Description of Risk Classifications and Likely Action Required

Very High Risk	There is a **high probability** that **severe harm** could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. The risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.
High Risk	**Harm** is **likely to arise** to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the long term.
Moderate Risk	It is possible that **harm could arise** to a designated receptor from an identified hazard. However, it is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively **mild**. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be **mild**.
Very Low Risk	There is a **low possibility** that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.