

Land off Charity Close, Desford

Land Contamination
Preliminary Risk
Assessment

Document Reference & Control

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Client: Miller Homes

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Revision	Date	Comment	Author	Checked by
P01	25/11/2024	First Issue	LW	DKB

Executive Summary

This summary presents the salient points of the report and should not be referred to in isolation.

Instruction	Rodgers Leask Ltd (RLL) were commissioned by Miller Homes in October 2024 to undertake a Land Contamination Preliminary Risk Assessment (PRA) for a site located on a parcel of land off Charity Close, Desford. The proposed development involves the construction of approximately 100 residential units with associated gardens, access roads and public space in the western portion of the site, and associated infrastructure in the eastern portion.
Site Setting and History	The site is located adjacent to Charity Close on the eastern edge of Desford, approximately 800m east from the centre of the town. The site comprises two agricultural fields separated by a third field, and are connected by a farmers track along the southern boundary. Historically the site comprised agricultural land with an unspecified tank adjacent to the eastern boundary of the western field. The tank was not visible on a site walkover. The wider area has remained predominantly agricultural land.
Ground Conditions	The mapped geology underlying the site comprises predominantly mudstone of the Gunthorpe Member with a capping of Cotgrave Sandstone in the north western corner of the western field. No Made Ground or superficial deposits are anticipated. Shallow groundwater is not anticipated.
Preliminary Contamination Assessment	Given the history of the site and surrounding area, and the anticipated ground conditions, there is not considered to be any significant risk of land contamination. There is a residual risk of potential localised Made Ground related to agricultural uses. A ground investigation is required to confirm the presence and composition of any Made Ground, in order to refine the contamination risk assessment.
Preliminary Geotechnical Assessment	The mapped geology suggests that traditional strip/trenchfill foundations are likely to be appropriate, subject to verification by intrusive investigation.

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1.0 Introduction

1.1. Terms of Reference

Rodgers Leask Ltd (RLL) were commissioned by Miller Homes in October 2024 to undertake a Land Contamination Preliminary Risk Assessment (PRA) for a site located on a parcel of land off Charity Close, Desford.

1.2. Report Objectives

This PRA has been written in accordance with the principles set out in Land Contamination Risk Management (LCRM) Guidance¹ provided by the Environment Agency (updated 20th July 2023).

The scope of this PRA comprises:

- A study of historical maps.
- A review of geological and mining information
- An examination of regulatory authority information.
- A preliminary screen for unexploded ordnance (UXO).
- A review of nearby ground investigation data.
- Production of a conceptual model.

1.3. Invasive Plant Species

No detailed assessment has been made for the presence of invasive or pernicious plant species e.g. Japanese Knotweed, Giant Hogweed and Himalayan Balsam within the remit of this study.

1.4. Limitations and Confidentiality

All conclusions and recommendations made within this report are based upon and limited to the factual information obtained as part of this investigation. No responsibility can be taken by RLL for information obtained by third parties, and it has been assumed that all third-party information provided is true and correct.

¹ Land contamination risk management (LCRM) - GOV.UK (www.gov.uk)

No liability can be accepted for conditions not revealed within the exploratory holes or pits undertaken by this investigation. The exploratory points cover only a small proportion of the total site area.

RLL has undertaken the work in accordance with our understanding of current best practice at the time of undertaking the report. Further assessment and revision of the report may be required should new information come to light or legislation/changes to best practice be introduced after the date of issue of the report.

RLL has prepared the report for the sole use and reliance of the Client. The report may not be used or relied upon by any unauthorised third party without the explicit written agreement of RLL.

The interpretive work undertaken within this report remains the intellectual property of RLL and must not be divulged to any commercial third party without prior written agreement of RLL.

At the time of writing, detailed information on the proposed structures, such as detailed layout, loadings and serviceability limits, was not available. Accordingly, where geotechnical design advice is provided it is for information only and should be reassessed by a competent specialist once the development layout and structural loadings are known.

2.0 Site Setting

2.1. Site Location

The site is located adjacent to Charity Close on the eastern edge of Desford, approximately 800m east from the town centre.. The site is centred approximately at grid reference 448750E, 303655N.

The area of the site is approximately 8.5 hectares.

A site location plan is included as Appendix A.



Figure 1: Site Boundary Plan

A site location plan is included as Appendix A.

The site is located within an area of agricultural fields to the west of Desford. The site is bounded by residential properties to the west and north, and by agricultural fields that are part of the manor Hill Farm to the south and west.

Rothley Brook lies approximately 100m northeast of the eastern field at its closest point.

2.2. Site Description

A site walkover was undertaken by RLL on 14/11/2024. The purpose of the site walkover was to provide a general description of the site and to identify any areas of concern.

The site currently comprises two cropped agricultural fields adjacent to the eastern boundary of a residential development off Barns Way. The two fields are separated by a third smaller field owned by a local charity. The edges of the fields are marked by hedgerows and a drainage ditch. The drainage ditch along the southern boundary has been replaced by an approximately 2m tall bund for approximately 60m between the access point in the southwestern corner and the trees located on the southern site boundary.

The site is accessed from Charity Close which joins the southwestern corner of the western field. From the access point, a farm track runs along the southern boundary of the western field. The farm track extends past the site boundary and connects the two fields, accessing the eastern field in the southwest corner. The farm track is stoned with local demolition material surfacing.

The northern half of the western field is fairly flat, and the southern half slopes towards the south eastern corner with an elevation change of approximately 4m. The eastern field gently slopes from the northwest corner of the site towards the southeast corner of the site with an elevation change of approximately 8m.

2.3. Proposed Development

The proposals involve the development of 100 residential units on the western field, with associated gardens, access roads and public space. The eastern field is to be utilised for associated infrastructure, if required.

An Option Plan is included in Appendix B.

3.0 Historical Review

3.1. Ordnance Survey Maps

Historical Ordnance Survey Maps at various scales have been obtained via an Emapsite MapInsight Report in order to review the relevant historical land use on site and in the surrounding area. These maps are presented within Appendix C. Additionally, historical aerial photography from Google Earth has been used to assess the recent history of the site.

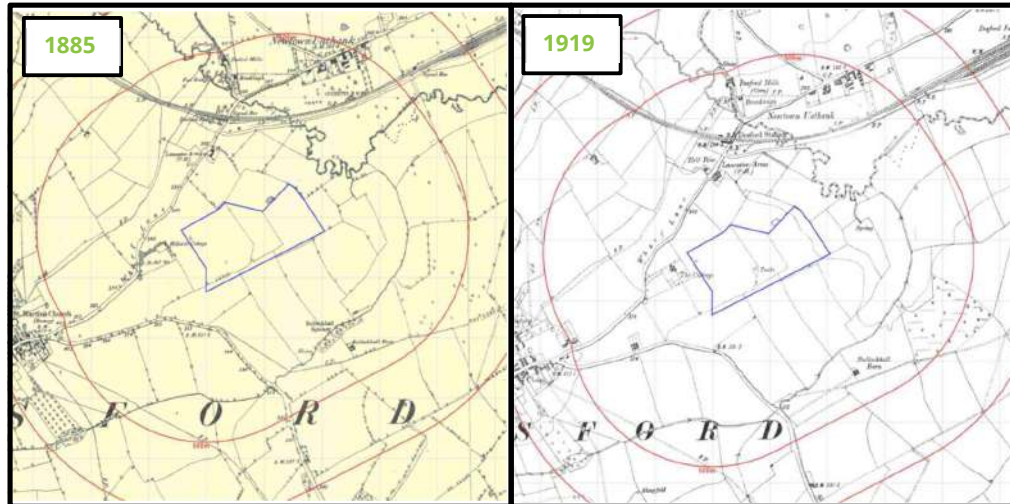
It should be noted that the boundary marked on the historic OS maps is not indicative of the site boundary, as it includes a portion of the field that lies between the two fields to be developed. . Reference is to be made to Figure 1 of this document for the site boundary.

3.2. Summary

The site has remained as undeveloped land under agricultural use for all of its history. A single unspecified tank has been present adjacent to the eastern edge of the western field since 1919.

From the earliest available map edition of 1885 the site has been surrounded by predominantly agricultural land. A single pond is recorded on the northern boundary of the eastern field. Desford Railway Station is approximately 250m to the north of the site, and is situated on the east-west oriented Midlands Railway (Leicester & Burton branch). Rothley Brook lies approximately 100m northeast of the eastern field at its closest point.

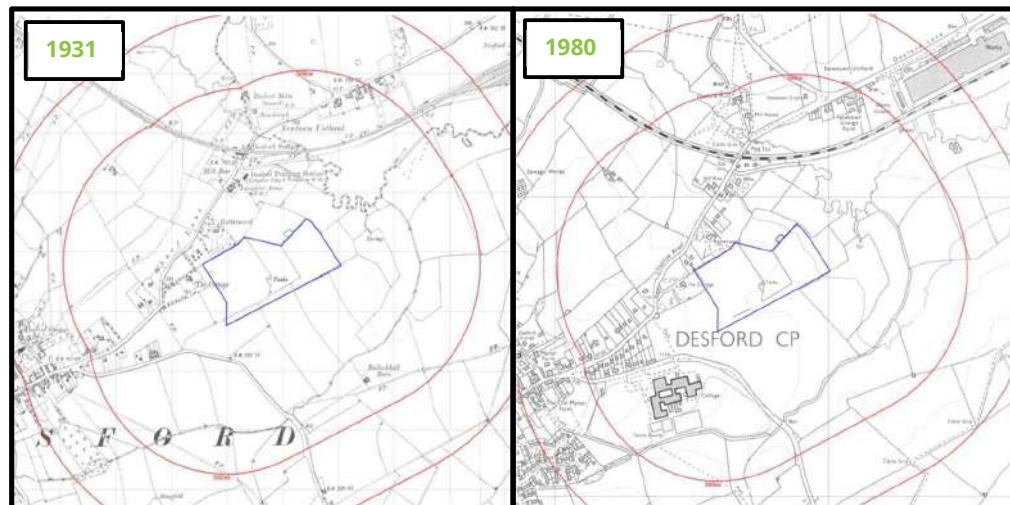
The 1919 map shows a spring approximately 100m to the east of the site, connected to Rothley Brook to the north.



Map Insert 1: 1885 and 1919 1:10,560 Map Editions displaying the earliest mapped land use of the site and surrounding area as well as the change in nearby features.

By 1931 the Desford Pumping Station (Leicester City & Nuneaton W.W.) has been constructed approximately 250m to the north of the site. By 1964 these are relabelled as works and by 2001 are no longer mapped.

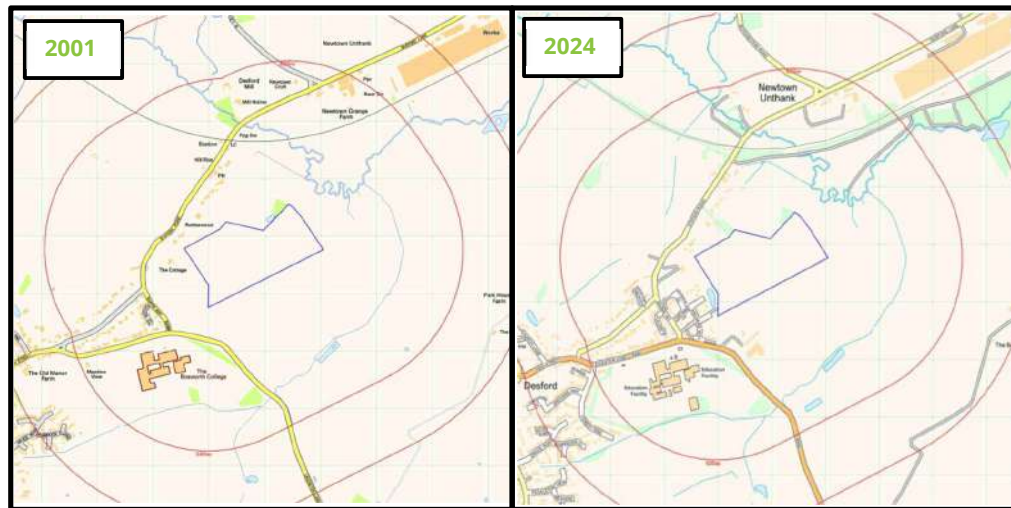
The Desford station is marked as disused in 1980, but the railway line is still present. A new pumping station is now present adjacent to the station approximately 300m to the north of the site.



Map Insert 2: 1928-1931 1:10,560 and 1980 1:10,000 Map Editions displaying the change in nearby land use including the development of the Desford Pumping Station and Tube Works, and the Desford Station marked as disused.

By 2001 the tank adjacent to the eastern boundary of the western field is no longer marked. During a site walkover, it was noted that the area containing the tank is now heavily vegetated and there is no visible sign of the tank..

The town of Desford has continued to expand eastwards towards the site, and by 2022, a new residential estate has been built immediately to the west of the site.



Map Insert 3: 2001 1:10,000 and 2024 1:10,000 Map Editions displaying the loss of onsite tanks, and the eastwards expansion of Desford.

4.0 Geology, Hydrogeology, Hydrology and Mining

4.1. Geology

4.1.1. Published Geology

Geological data from the British Geological Survey (BGS) Maps Portal (1:50,000 series maps, Ref. 155 Coalville) and Groundsure geology 1:50,000 maps have been reviewed and summarised below.

No Made Ground or superficial deposits are mapped on site. Alluvium deposits may be present along the eastern boundary of the eastern field.

The site is predominantly underlain by the Gunthorpe Member comprising a mudstone formation, of Triassic age, with occasional siltstone beds.

The mudstone is overlain by the Cotgrave Sandstone Member in the northeast corner of the western field, comprising a dolomitic sandstone with common gypsum nodules. Both bedrock units are part of the wider Sidmouth Mudstone Formation.

4.1.2. Structure

No structural features or linear bedrock features are mapped on or within the vicinity of the site.

4.1.3. Relevant Borehole Data

A ground investigation was undertaken in 2019 for the Barns Way residential estate adjacent to the western boundary of the site.

- No made ground or superficial deposits were encountered
- Beneath a covering of topsoil, the site was directly underlain by the weathered Edwalton Member, recovered as a firm to stiff sandy clay with mudstone lithorelics. The Edwalton Member was found to overlie the Cotgrave Sandstone Member; which is in turn underlain by the Gunthorpe Member (mudstone).
- Monitoring of groundwater levels revealed water levels between 2.03m – 3.61m bgl, however this is considered likely to be perched water.

4.2. Hydrogeology

4.2.1. Aquifer Designation

The Environment Agency (EA) classifies the Gunthorpe Member as a Secondary B Aquifer and the Cotgrave Sandstone Member as a Secondary A Aquifer.

4.2.2. Anticipated Groundwater Levels and Flow Direction

No groundwater strikes were recorded during the nearby investigation described above; however groundwater levels were subsequently monitored at between 2.03m – 3.61m bgl.

4.2.3. Groundwater Abstractions

There are no active licenced groundwater abstractions within 2 km of the site.

The site is not within a Source protection Zone (SPZ).

4.3. Hydrology

4.3.1. Surface Water Features

A drainage ditch is present along the southern boundary of the western field, with an outflow pipe from the adjacent residential estate connected to the western end of the ditch.

The closest significant surface water feature is the east-west oriented Rothley Brook, approximately 95m northeast of the site at its closest point.

4.3.2. Surface Water Abstractions

There are no recorded licensed surface water abstractions within 2 km of the site.

4.4. Mineral Extraction

The site is classified as having no underground mining known or likely within very close proximity to the site.

Two ponds are recorded as surface ground workings on the northern and southern boundaries of the eastern field from 1919 to 1931.

A single unspecified pit is recorded in 1980, approximately 150m southwest of the site.

4.4.1. Coal Mining

The site is not located within a Coal Mining Reporting Area.

4.4.2. Cavities

There are no recorded cavities within 500m of the site.

4.4.3. Brine and Gypsum Extraction

There are no records of Brine or Gypsum extraction within 2km of the site.

4.5. Potential for Natural Ground Hazards

Hazard	Hazard Rating	Comments
Shrink -Swell Clays	Very Low	Shrink – swell clays are not likely to be present due to the predominantly low plasticity of the clays.
Landslides	Very Low	Slope stability problems are not likely to be present but consideration to potential problems of adjacent areas impacting on the site should always be considered.
Ground Dissolution of Soluble Rocks	Negligible	-
Compressible Deposits	Negligible	-
Collapsible Deposits	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
Running Sands	Negligible	-

4.6. Radon

The site is not in a radon affected area, as less than 1% of properties are above the action level. Radon protection measures are therefore not required for new developments.

5.0 Environmental Information

5.1. Environmental Database Records

Data regarding Environment Agency and Local Authority regulatory information has been obtained via a GroundSure Enviro+Geo Insight report, a copy of which is included in Appendix D.

Information considered pertinent to the site is present below.

5.1.1. Historical Tanks

A single unspecified tanks are recorded as present adjacent to the eastern boundary of the western field from 1916 – 1997. This tank was not observed during a site walkover.

5.1.2. Historical Energy Features

There are no records of historical energy features within 500m of the site.

5.1.3. Historical Garages

There are no records of historical garages within 500m of the site.

5.1.4. Landfill and Waste Data

There are two records of recorded historical landfill within 500m of the site. One historical landfill was approximately 100m southwest of the site and used for commercial and household waste, the last record of which was December 1965. The second historical landfill was approximately 120m southwest of the site, although there is no record of the type of waste or active dates.

There is a single licensed waste site approximately 430m south of the site at Manor Hill Farm, issued in 2021 for the storage of wastes to be used in land treatment.

There are two recorded waste exemptions on the site related to disposing of agricultural waste through burning of waste in the open, and depositing waste from dredging of inland waters. There are a further 28No recorded waste exemptions within 250m of the site, related to using, treating and disposing of waste.

5.1.5. Discharge into Controlled Waters

There are no discharges registered within 500m of the site.

5.1.6. Pollutant Incidents

There is a single recorded pollutant incident approximately 250m south of the site, related to a Category 3 (Minor) Land and Air impact in September 2002 involving other general biodegradable material or waste.

5.2. Part 2a of the Environmental Protection Act 1990

There are no Part 2a records within 500m of the site.

5.3. Ecological Receptors

There is a single ecological receptor within 1 km of the site, in the form of Botcheston Bog approximately 695m north of the site.

5.4. Archaeology and Heritage Interests

There are no records of any Archaeology or Heritage interests within 250m of the site.

5.5. Unexploded Ordnance (UXO)

Regional Unexploded Bomb Risk maps obtained from Zetica indicates that the site is in a low risk area for Unexploded Ordnance (UXO).

6.0 Conceptual Site Model

This section provides a qualitative risk assessment of the risk posed from potential on and off-site contamination sources, identified by the information presented in the previous sections.

The conceptual model below has been developed based on the commonly adopted source-pathway-receptor model as recommended within the Land Contamination Risk Management (LCRM) guidance.

6.1. Proposed Development

It is proposed to redevelop the western field into residential dwellings with gardens, access roads, landscaped areas and an area of public open space, and associated infrastructure in the eastern field.

6.2. Potential Sources of Contamination

6.2.1. On-site

The site has predominantly been utilised for agricultural land use throughout its history. The following potential sources of contamination have been identified based upon this land use:

- Potential presence of localised Made Ground from unregistered burial of waste;
- Potential small-scale hydrocarbon spills and leaks from agricultural machinery; and
- Potential burning and depositing of waste relating to the historical waste exemption licences.

Additionally, there is the potential for Made Ground associated with the recorded historic tank adjacent to the eastern boundary of the western field.

6.2.2. Off-site

The area around the site is predominantly used for agricultural and residential purposes, with minimal industrial land use further afield.

Made Ground associated with the infilled ponds adjacent to the northern and southern site boundaries of the eastern field are not considered a risk due to the cohesive nature of the site soils inhibiting the migration of any potential

ground gas, and the distance to the western field where the residential development is planned.

The Midlands Railway (Leicester & Burton branch) and Tube Works are considered too distant from the site to be significant sources of contamination.

It is therefore considered that there is minimal risk from off-site sources of contamination

6.2.3. Ground Gas

No significant source of ground gas generation has been identified. There is a residual risk that any potential Made Ground beneath the site may potentially include methanogenic material. However, any made ground is expected to be localised and it is considered unlikely that significant ground gas generation is still occurring at present; hence there is considered to be a low gas risk to the proposed development.

Two historic landfills are recorded approximately 100m and 120m southwest of the site. There are no records for the landfill approximately 120m southwest of the site. Although the distance and cohesive nature of the site soils reduces the viability of ground gas migration, the risk of landfill ground gas generation and migration on to site cannot be discounted.

Ground gas monitoring at the adjacent Barns Way residential estate has concluded that no ground gas protection measures are required.

6.3. Potential Pathways

With regard to the assessment of risk to human health, the following pathways are considered to be potential exposure routes based on residential end-use with plant uptake, in accordance with the CLEA Documentation:

- Dermal contact.
- Direct ingestion of soil.
- Inhalation and ingestion of soil dust.
- Inhalation of gases.
- Ingestion of contaminated water via plastic pipes.

With regard to Controlled Waters, the following pathways are considered applicable:

- Downward infiltration into the underlying Secondary A Aquifer and Secondary B Aquifer.
- Migration of surface water runoff or groundwater to nearby surface water features.

6.4. Potential Receptors

In the event that localised Made Ground is found to be present beneath the site, maintenance and groundworkers are considered to be most likely at risk of being exposed to potential contaminants.

As much of the proposed development comprises hardstanding and private gardens, some potential pollutant linkages will be broken for

Future site users may be exposed to potential contamination in landscaped or garden areas, but any areas of hardstanding will effectively break the pollutant linkage.

The site is underlain by Secondary A and Secondary B Aquifers; however there are no groundwater abstraction points within 2km of the site.

Rothley Brook has been identified as the closest surface water feature approximately 95m north east of the site at its closest point.

6.5. Preliminary Pollutant linkages

Based on the information above, the following potential pollutant linkages are considered applicable to the site. The risk classification has been qualitatively derived in accordance with LCRM. The terminology used is taken from CIRIA C552.

Land off Charity Close, Desford
Land Contamination Preliminary Risk Assessment

Preliminary Conceptual Site Model (CSM)						
Pollutant Linkage	Source	Pathway	Receptor	Probability	Consequence	Risk
1	Potential presence of Made Ground related to agricultural activities and historic tanks adjacent to the site	Ingestion of soil, dermal contact, inhalation of dust	Construction & Groundworkers	Low Likelihood	Medium	Low to Moderate
2		Inhalation of soil dust	Adjacent site users	Unlikely	Medium	Low
3		Ingestion of soil, dermal contact, inhalation of dust	Future Site Users	Unlikely	Medium	Low
4		Downward migration into groundwater	Underlying aquifers including Secondary A and B Aquifers.	Unlikely	Mild	Very Low
5		Lateral migration of contaminants	Off site receptors such as neighbouring buildings and ponds.	Unlikely	Mild	Very Low
6	Presence of elevated concentrations of sulphides or corrosive contaminants	Leaching of sulphate and corrosive contaminants	Buried concrete structures and services	Unlikely	Medium	Low
7	Potential presence of ground gas generation and migration from areas of unknown Made Ground, and neighbouring infilled ponds	Migration of asphyxiant and explosive gasses into confined spaces	Site end users, construction/ maintenance workers in trenches;	Unlikely	Medium	Low

6.5.1. Qualitative Contamination Risk Assessment

The site has remained as undeveloped agricultural land throughout its history and there is no evidence of sources of contamination on site. .

However, given the possibility of localised Made Ground relating to agricultural uses and the presence of infilled ponds adjacent to the site boundary, there is a residual risk of currently unidentified contamination and ground gas.

In order to refine the risk assessment, the presence and composition of any Made Ground should be determined.

7.0 Preliminary Development Considerations

7.1. Preliminary Foundation Design

Ground investigation works shall be required in order to identify in-situ ground conditions to provide foundation recommendations for the site.

The mapped geology and records from a nearby ground investigation suggests that traditional strip/trenchfill foundations are likely to be feasible, subject to verification by intrusive investigation..

Ground bearing floor slabs may be suitable following confirmation of shallow ground conditions.

8.0 Conclusions and Recommendations

8.1. Site Setting and Historic Development

The site has remained agricultural fields throughout history, with a tank mapped on the eastern edge of the western field from 1919 to 2001.

The east-west oriented Midlands Railway (Leicester & Burton branch) is approximately 250m to the north of the site and has remained active since 1885.

The ground conditions are expected to comprise cohesive weathered deposits of the underlying bedrock..

8.2. Summary of Land Contamination Risks

Given the history of the site and the anticipated ground conditions, there is not considered to be any significant risk of land contamination.

However, there is a residual risk of potential localised made ground relating to agricultural uses.

There is not considered to be a residual risk of ground gas generation from the infilled ponds adjacent to the site boundary.

A ground investigation is required to confirm the presence of any Made Ground, to assess potential contamination and confirm the presence of any ground gas.

8.3. Summary of geotechnical Considerations

Given the mapped geology and ground conditions encountered during a nearby ground investigations, shallow foundations are likely to be suitable to support the proposed structural loads. Further investigation is required to confirm the ground conditions and obtain geotechnical data.

8.4. Recommended Further Works

A ground investigation is required to refine the land contamination risk assessment and to inform the geotechnical assessment, including gas and groundwater monitoring.

8.4.1. Proposed Ground Investigation Scope

The scope of ground investigation is anticipated to comprise the following activities:

- Dynamic sampling drilling across the site to investigate shallow ground conditions, including strength data, and to allow for gas and groundwater monitoring installations. Monitoring installations will be placed in any Made Ground encountered.
- Trial pitting exercise to provide additional coverage of the shallow soils and obtained samples for laboratory testing.
- Single return visit for groundwater monitoring.
- Soil contamination testing to inform a human health risk assessment with regard to potential contamination identified on site.
- Sulphate testing to assess the risk to buried concrete.

References

1. British Standards Institution. BS 5930:2015+A1:2020. Code of practice for ground investigations.
2. British Standards Institution. BS 10175:2011+A2:2017. Investigation of potentially contaminated sites – Code of practice.
3. British Standards Institution. BS 8485:2015+A1:2019. Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings.
4. British Standards Institute. BS EN ISO 21365:2020. Conceptual site models for potentially contaminated sites.
5. Contaminated Land: Application in Real Environments. Good Practice for Risk Assessment for Coal Mine Gas Emissions. October 2021,
6. Construction Industry Research and Information Association. 2008. Assessing the risk posed by hazardous gases to buildings. C665.
7. Environment Agency. Land Contamination Risk Management (LCRM). Published 8th October 2020.

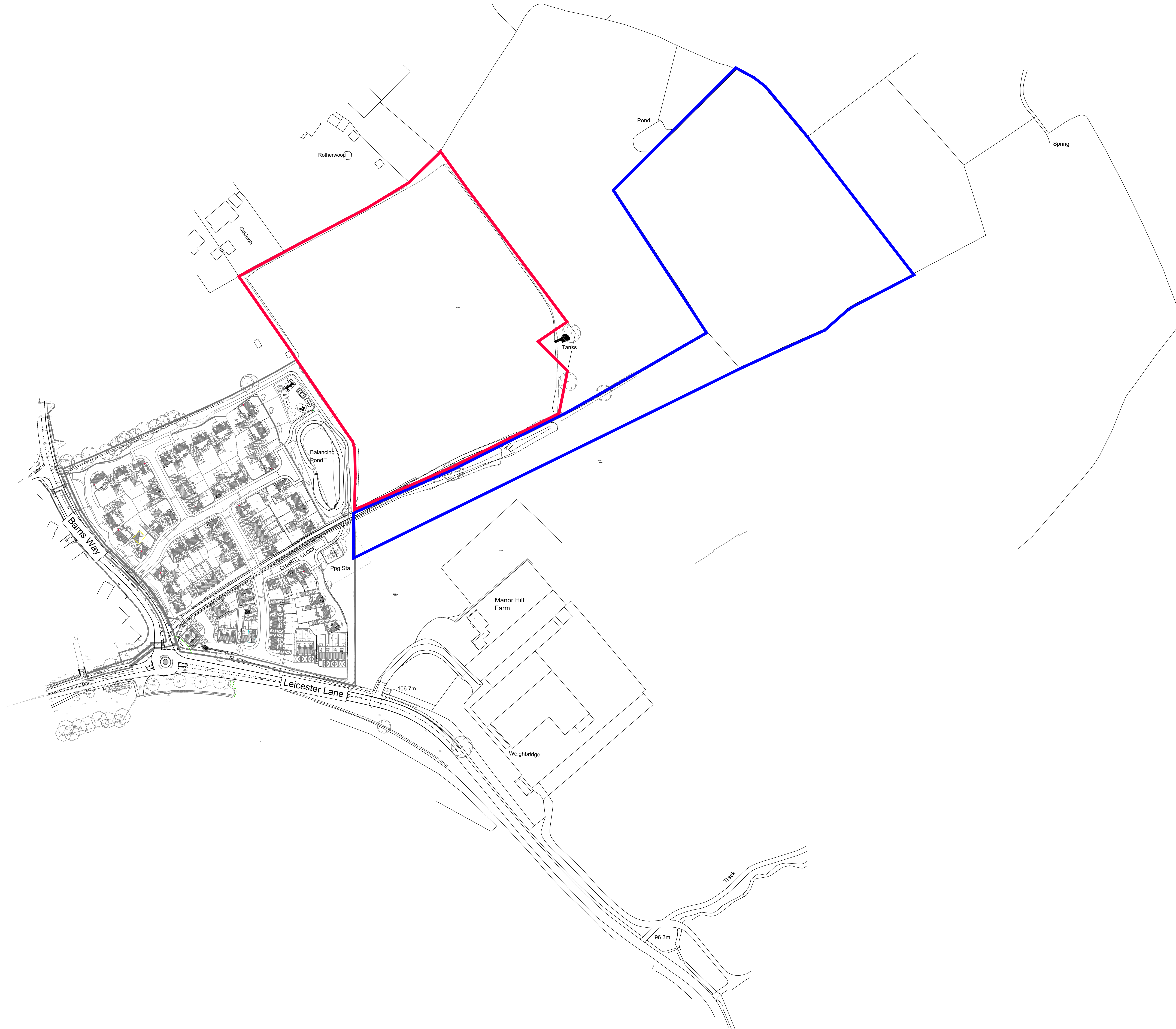
Appendices

Appendix A: Site Plan



Project ID: P24-724 Project Title: Land off Charity Close Location: Charity Close, Desford	Figure Title: Site Location Plan Drawing No.: 24724-RLL-24-XX-DR-O-0002 Date: 11/11/2024	Drawn by: LW Checked by: DKB	Contains Ordnance Survey data © Crown copyright and database right 2024	1:10,000 Size: A3 0 100 200 300 400 500	N 	
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Appendix B: Option Plan



Scale 1:1000

Rev		Description		Drawn		Date	
							
Miller Homes (Midlands) Ltd 2 Centro Place Pride Park Derby, DE24 8RF Telephone: 0870 336 4400 Fax: 0870 336 4401 www.millerhomes.co.uk							
Project Title LAND_OFF_LEICESTER_LANE DESFORD							
Drawing Title OPTION_PLAN							
Scale	Drawn By	Designer	Check	Engineer	Check		
SEEDWG	MB						
Job No.	Drawing No.	Date	20.03.23	Date			
813	MB_SP_001						
Original Sheet Size A0							

Appendix C: OS Historic Maps



Groundsure
INSIGHTS

HISTORICAL MAP PACK LEGEND

**COUNTY SERIES &
NATIONAL GRID**
1:10,560 & 1:10,000

Information present on these legends is sourced
from the same Ordnance Survey mapping
as the maps used in this product.

If you have a query regarding any of the maps
provided please contact Groundsure's technical helpline.
We will endeavour to answer any queries you may have.

Technical Help
Tel 0800 028 0000

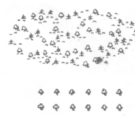
insight@groundsure.com
WWW.GROUNDSURE.COM

COUNTY SERIES 1:10,560

VEGETATION



Fir Wood



Mixed Wood



Orchard



Rough Pasture



Marsh



Deciduous Wood



Brushwood



Reeds

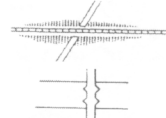


Furze

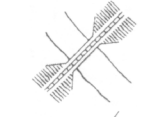


Osiers

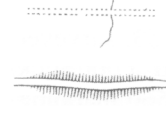
ROADS



Railway over Road



Road over River
or Canal



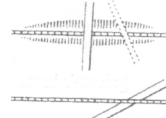
Railway over River



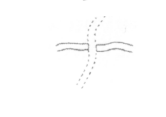
Road over Stream



Raised Road



Road over Railway



Level Crossing



Road over Stream



Sunken Road

RAILWAYS



Double Lines of Railway



Single Lines of Railway
and Tramway

GENERAL FEATURES



Gravel Pit



Quarry



Other Pits



Sand Pit



Shingle



Antiquities, Site of

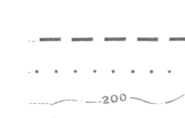


Arrow, showing direction of
flow of water



Trigonometrical Station

BOUNDARIES



County Boundary



Parish Boundary



Contours



Parliamentary Division
Boundary



Union Boundary



Rural District Boundary

NATIONAL GRID 1:10,000 & 1:10,560

HEIGHTS (METRES)

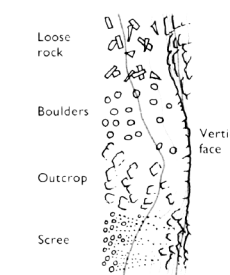
Values are given in metres above mean sea level
at Newlyn.

Surface heights
determined by ground survey 163m

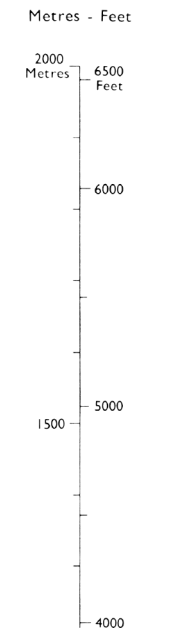
Bench marks and their values are shown on large
scale maps, and bench mark lists containing
fuller and possibly later levelling information
are obtainable from the Director General,
Ordnance Survey.

Contours are at 5 metres vertical interval.

ROCK FEATURES



CONVERSION SCALE



ABBREVIATIONS

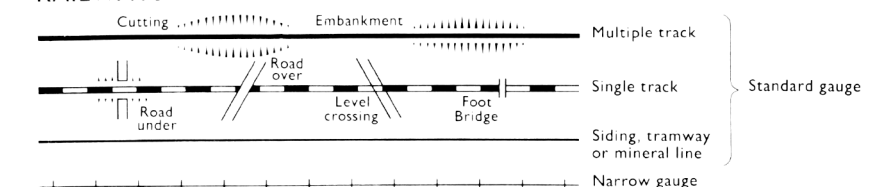
BP,BS Boundary Post or Stone
Ch Church
CH Club House
F Sta Fire Station
FB Foot Bridge
Fn Fountain
GP Guide Post
MP,MS Mile Post or Stone
P Pole or Post
Pol Sta Police Station

PO Post Office
PC Public Convenience
PH Public House
S Stone
Spr Spring
TCB Telephone Call Box
TCP Telephone Call Post
TH Town Hall
W Well
Y Youth hostel

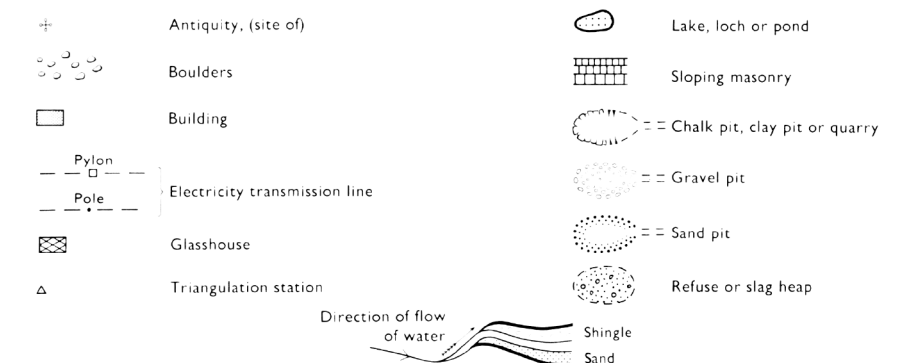
ROADS

Where unfenced shown by pecked lines.

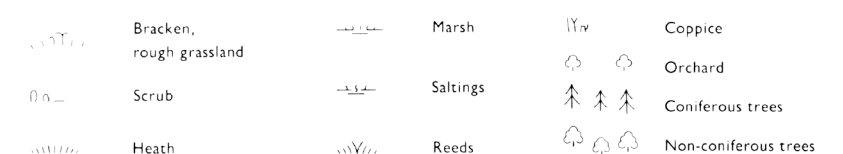
RAILWAYS



GENERAL FEATURES



VEGETATION



In some areas bracken () and rough grassland () are shown separately.



Groundsure
INSIGHTS

HISTORICAL MAP PACK LEGEND

COUNTY SERIES
1:1,2500
NATIONAL GRID
1:1,250 & 1:2,500

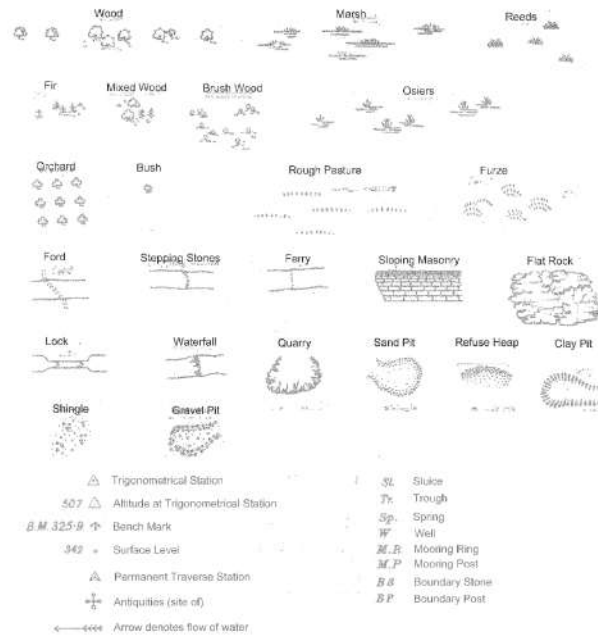
Information present on these legends is sourced
from the same Ordnance Survey mapping
as the maps used in this product.

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provided please contact Groundsure's technical helpline.
We will endeavour to answer any queries you may have.

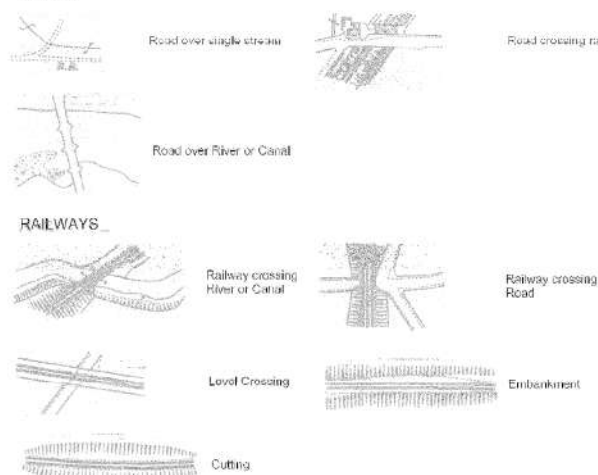
Technical Help
Tel 0800 028 0000
insight@groundsure.com
WWW.GROUNDSURE.COM

COUNTY SERIES 1:2,500

GENERAL FEATURES



ROADS

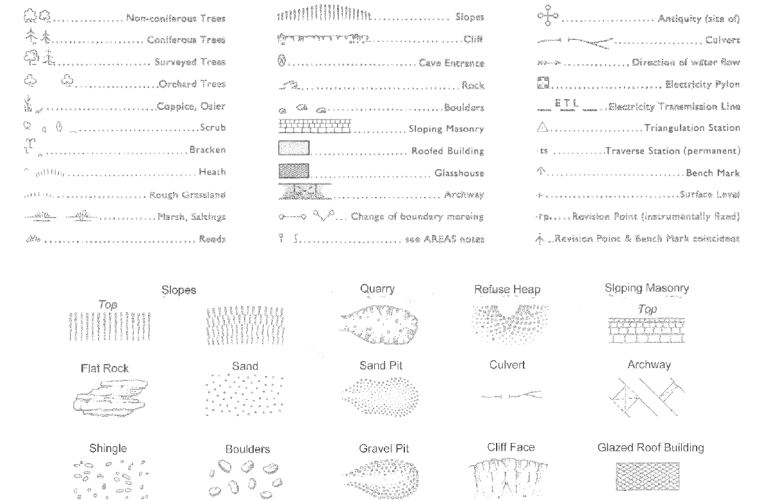


ABBREVIATIONS

Trigonometrical Station	Sluice
Altitude at Trigonometrical Station	Trough
Bench Mark	Spring
Surface Level	Well
Permanent Traverse Station	Mooring Ring
Antiquities (site of)	Mooring Post
	Boundary Stone
	Boundary Post

NATIONAL GRID 1:2,500 & 1:1,250

GENERAL FEATURES

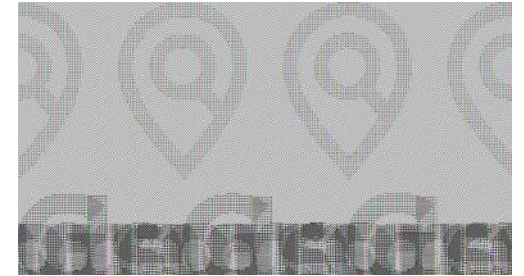
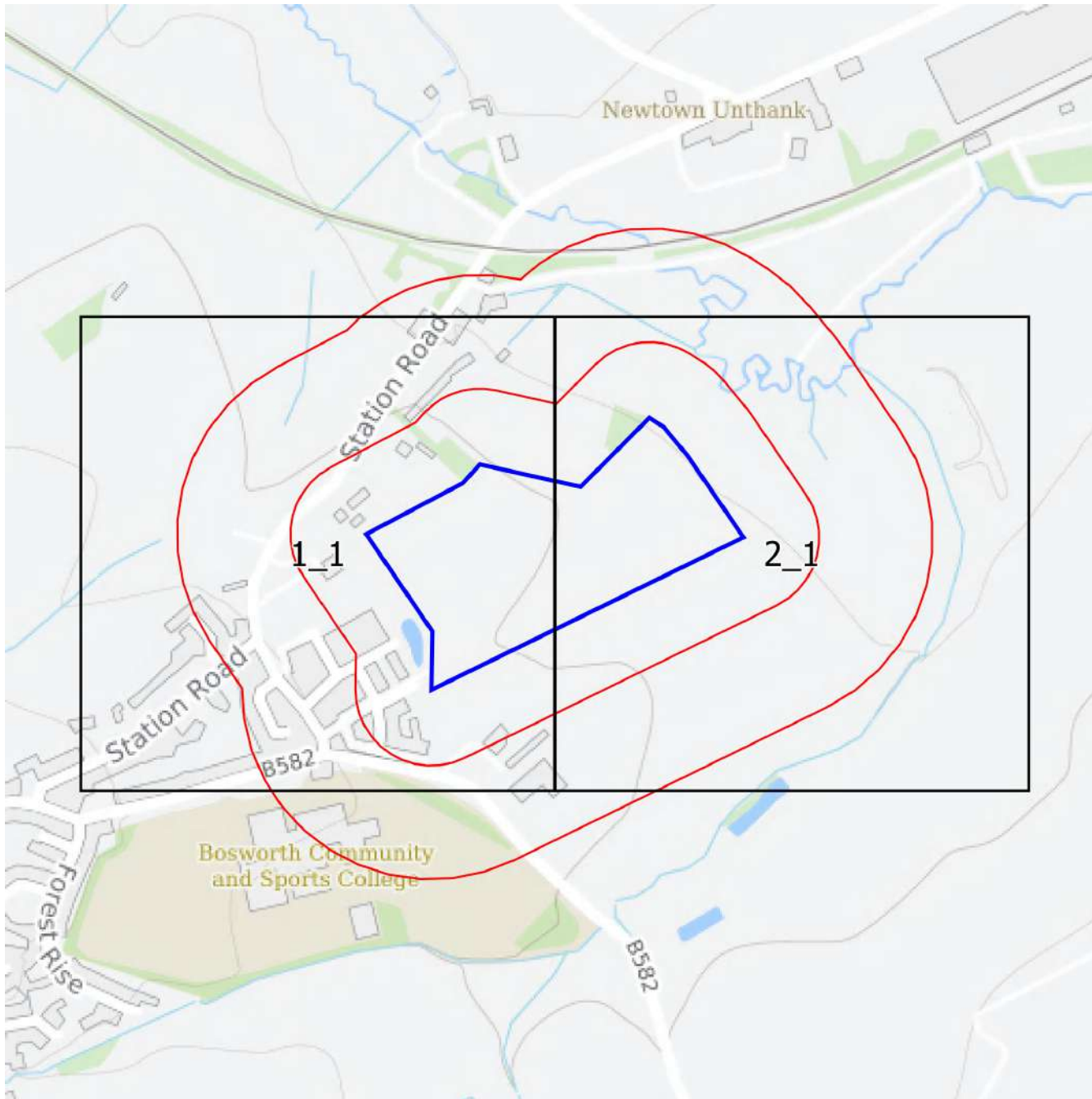


BOUNDARIES

England & Wales	
County Boundary (geographical)	
County & Civil Parish Boundary coterminous	
Admin County or County Borough Boundary	
London Borough Boundary	
County District Boundaries based on civil parish	
England, Wales & Scotland	
Civil Parish Boundary	
Parly & Ward Boundaries based on civil parish	
Parly & Ward Boundaries not based on civil parish	
Scotland	
County Boundary (geographical)	
County Council Boundary	
County of the City Boundary	
Burgh Boundary	
District Council Boundary	
* Not with parish	† Coincident with parish

ABBREVIATIONS

B.H.	Beer House	M.P.U.	Mail Pick-up
B.M.	Bench Mark	M.S.	Mile Stone
B.P.	Boundary Post	N.T.	National Trust
B.S.	Boundary Stone	N.T.L.	Normal Tidal Limit
C.	Crane	N.T.S.	National Trust for Scotland
C.H.	Club House	P.	Pillar, Pole or Post
Chy.	Chimney	P.C.	Public Convenience
Cn.	Capstan	P.C.B.	Police Call Box
D.Fn.	Drinking Fountain	P.H.	Public House
Dk.	Dock	P.O.	Post Office
E.I.P.	Electricity Pillar or Pole	Pp.	Pump
E.T.L.	Electricity Transmission Line	P.T.P.	Police Telephone Pillar
F.A.	Fire Alarm	Rear.	Rearage
F.A.P.	Fire Alarm Pillar	R.H.	Road House
F.B.	Filter Bed, Foot Bridge	rp.	Revision Point
F.B.M.	Fundamental Bench Mark	S.	Stane
F.S.	Flagstaff	S.B.	Signal Box
F.Sta.	Fire Station	S.L.	Signal Light
G.P.	Guide Post	Sl.	Sluice
G.V.C.	Gas Valve Compound	S.P.	Signal Post
H.	Hydrant or Hydraulic	Spr.	Spring
ha.	Haecres	S.Sta.	Signal Station
L.B.	Letter Box	T.C.B.	Telephone Call Box
L.B.Sta.	Lifeboat Station	T.C.P.	Telephone Call Post
L.C.	Level Crossing	Tk.	Tank or Track
L.G.	Loading Gauge	Tr.	Trough
L.Ho.	Lighthouse	ts.	Traverse Station
L.Twr.	Lighting Tower	W.	Well
m.	Metres	W.B.	Weighbridge
M.H.W.	Mean High Water	Wd.Pp.	Wind Pump
M.H.W.S.	Mean High Water Springs	Wks.	Works
M.L.W.	Mean Low Water	W.r.Pc.	Water Point
M.L.W.S.	Mean Low Water Springs	W.r.T.	Water Tap
M.P.	Mile or Mooring Post		



1:2,500 Scale Grid Index



Site Details:

Desford Both Sites

Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR_LS_1_1
Grid Ref: 448447, 303731

Map Name: County Series

Map date: 1886

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1886
 Revised 1886
 Edition N/A
 Copyright N/A
 Levelled N/A

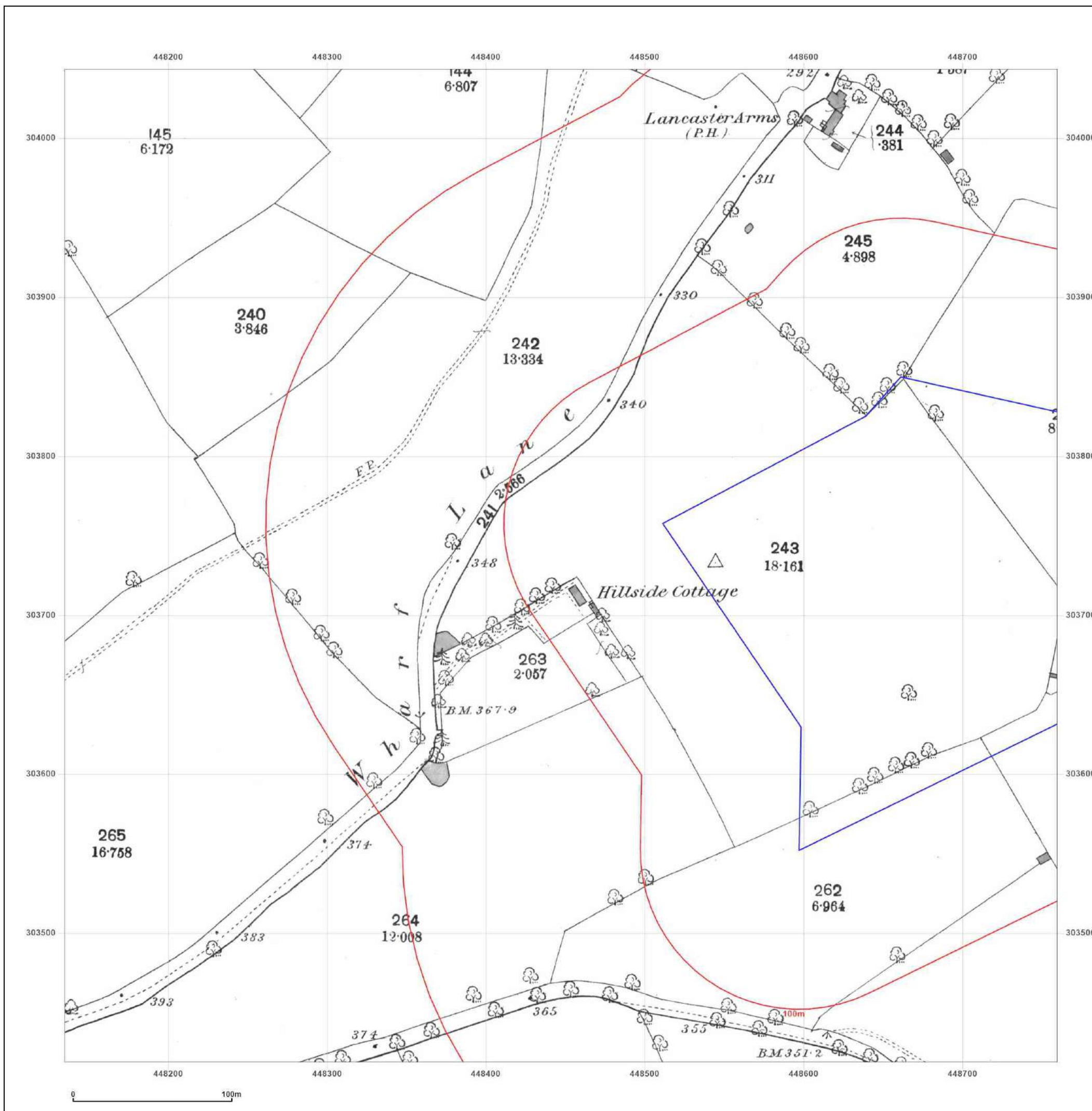


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Grid Ref: 448447, 303731

Map Name: County Series

Map date: 1903

Scale: 1:2,500

Printed at: 1:2,500



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

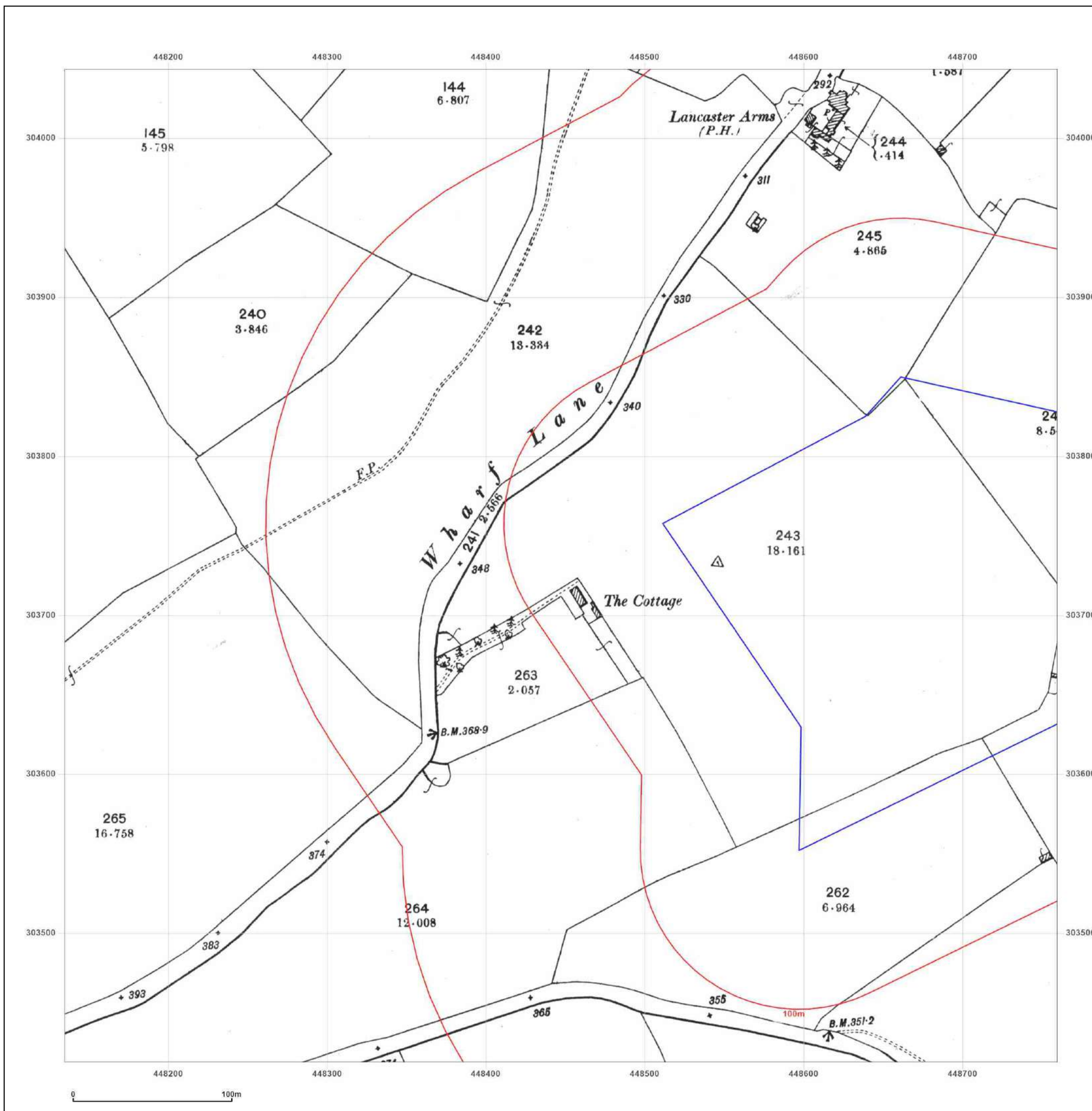


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Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR_LS_1_1
Grid Ref: 448447, 303731

Map Name: County Series

Map date: 1916

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1916
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A

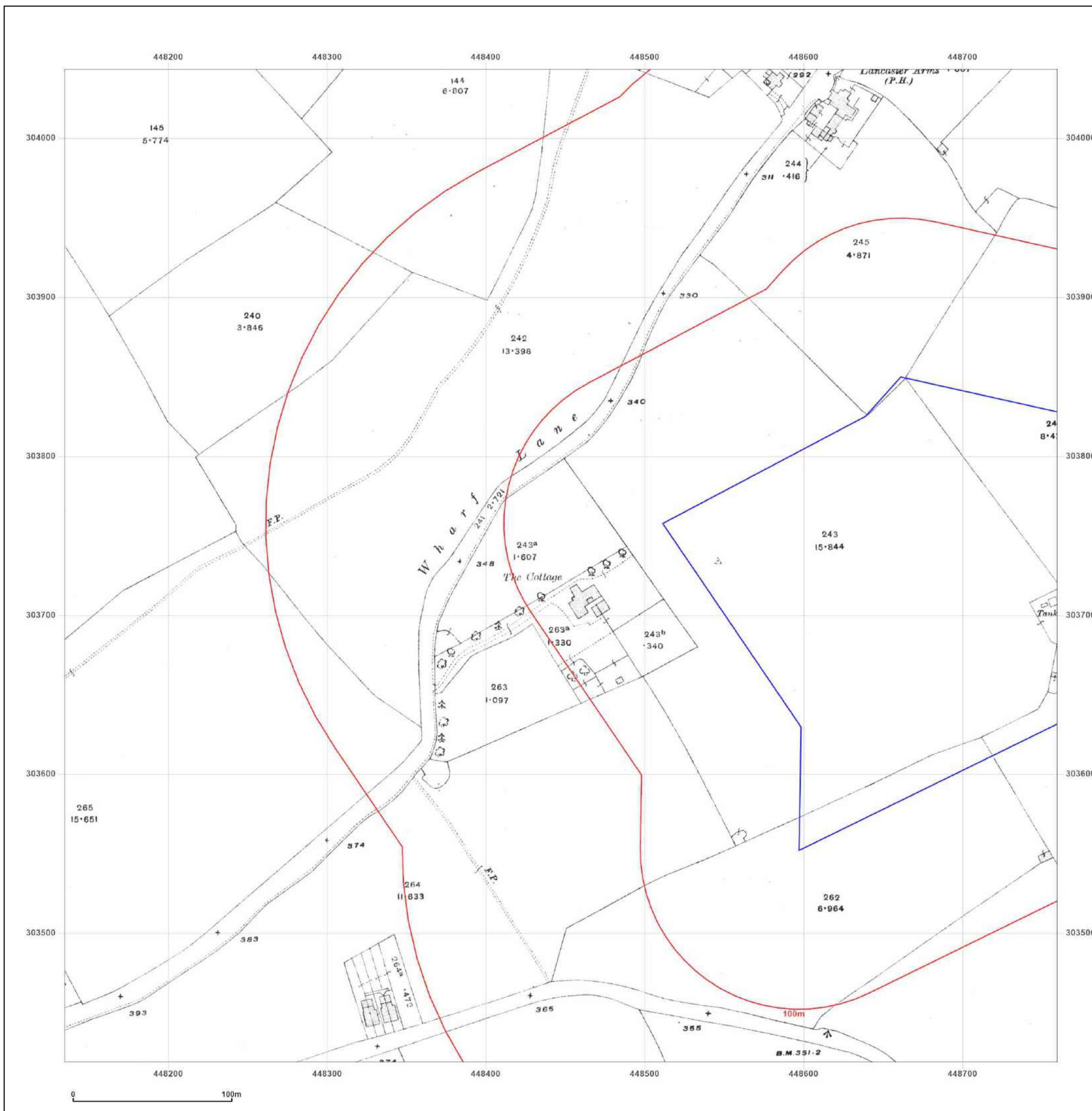


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Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR_LS_1_1
Grid Ref: 448447, 303731

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Printed at: 1:2,500



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

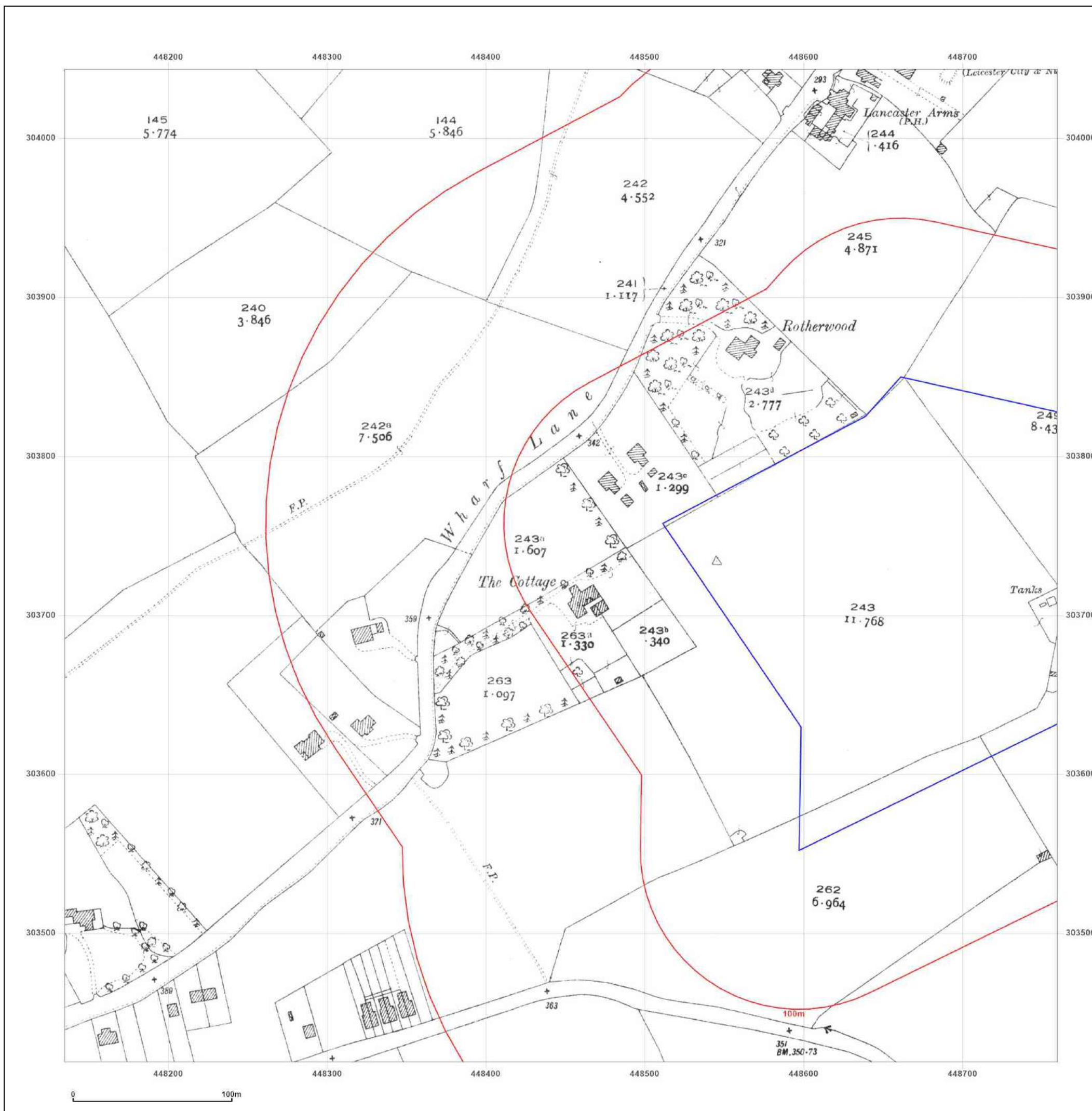


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Site Details:

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Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR_LS_1_1
Grid Ref: 448447, 303731

Map Name: National Grid

Map date: 1959

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1927

Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1927

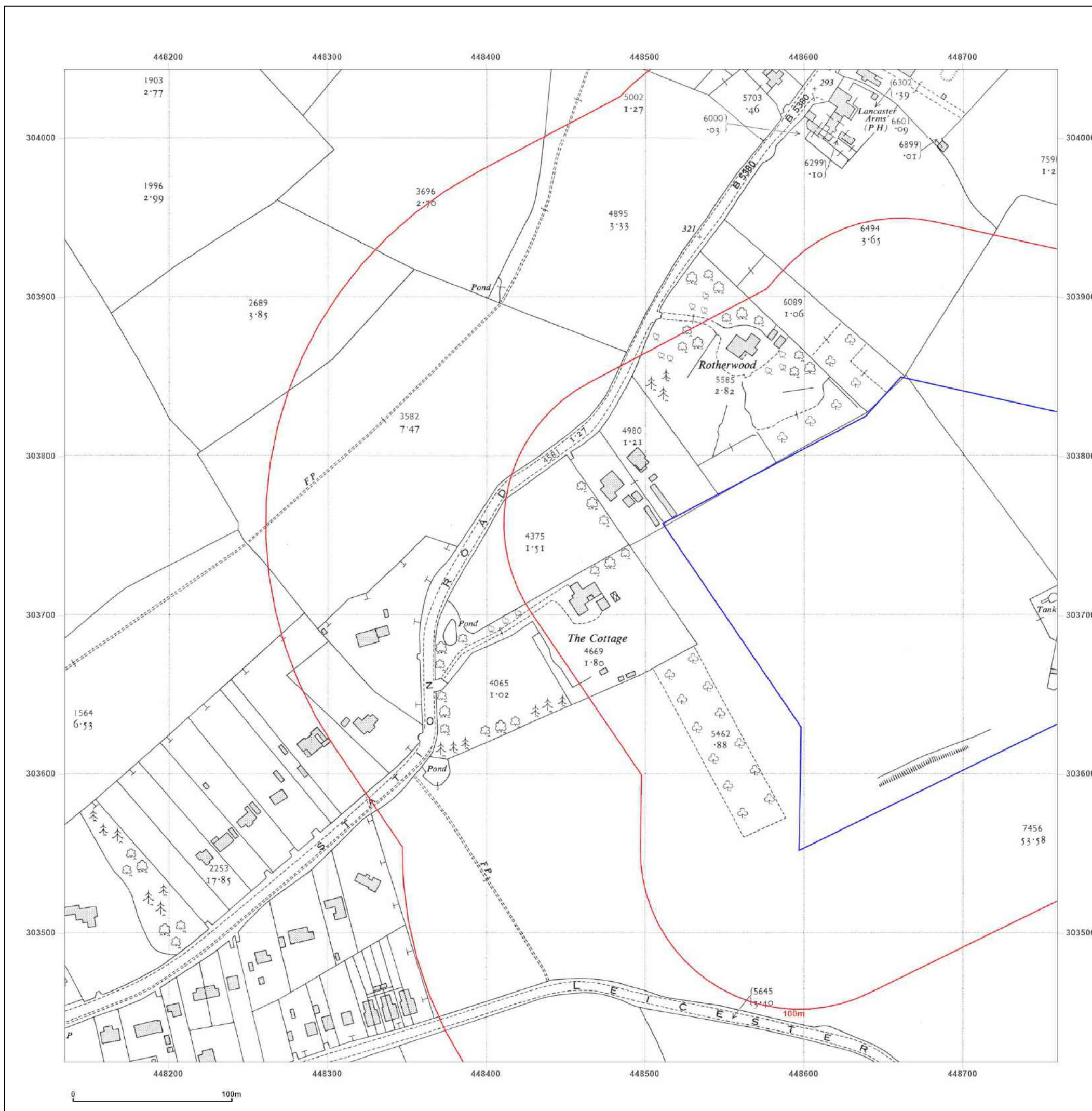


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Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR_LS_1_1
Grid Ref: 448447, 303731

Map Name: National Grid

Map date: 1963

Scale: 1:2,500

Printed at: 1:2,500



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

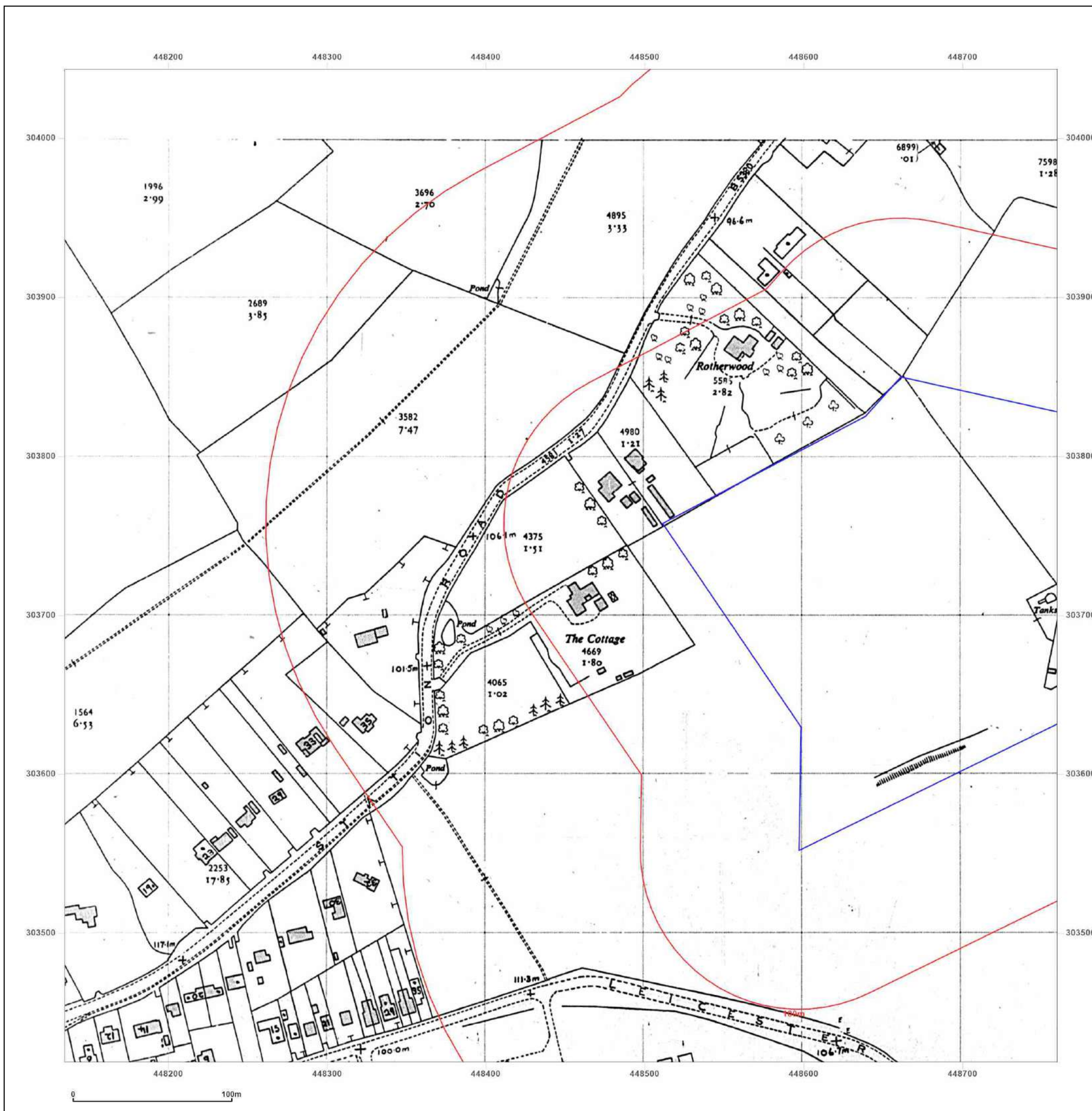


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Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR_LS_1_1
Grid Ref: 448447, 303731

Map Name: National Grid

Map date: 1978

Scale: 1:2,500

Printed at: 1:2,500



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

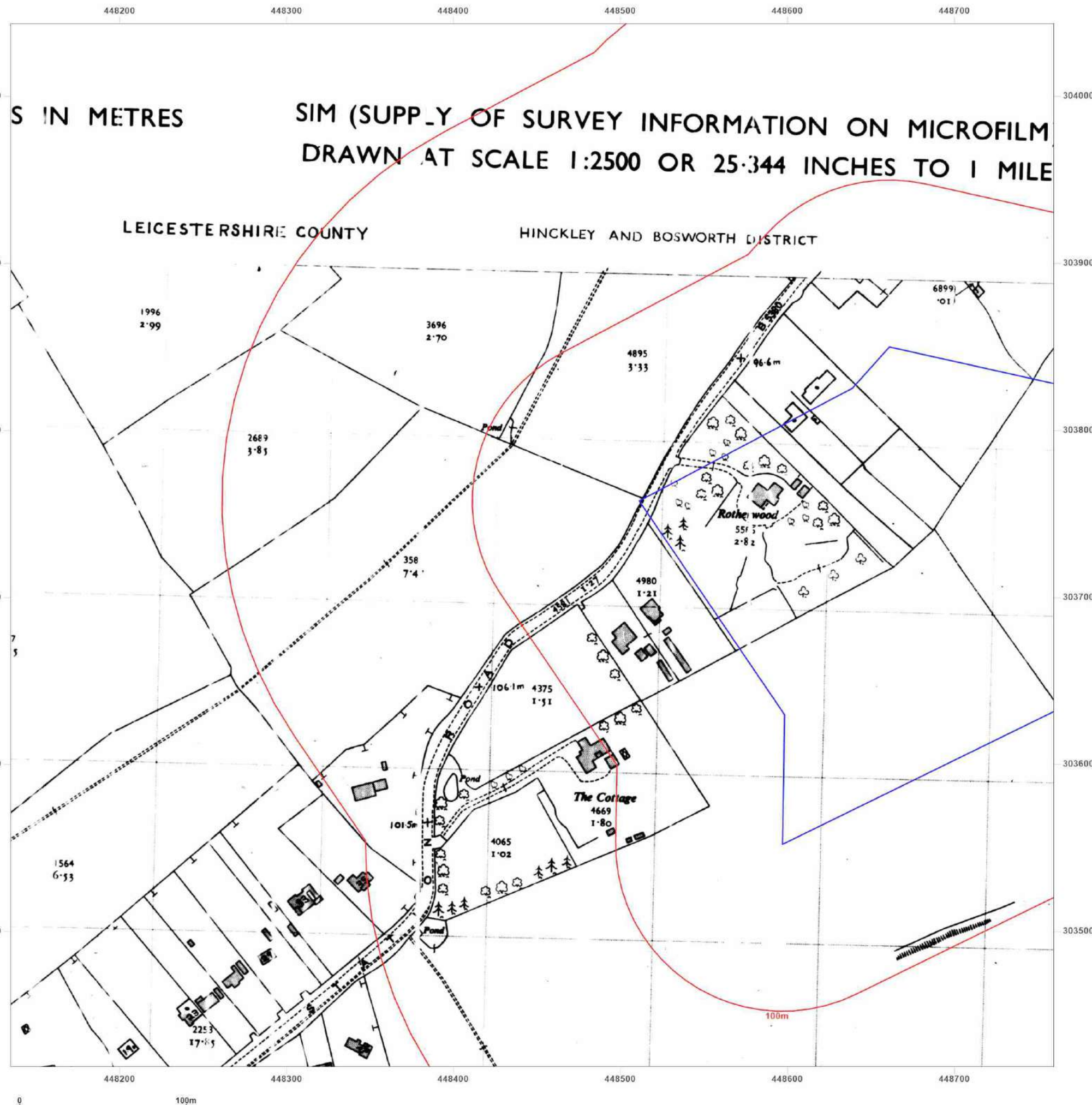


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Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR_LS_1_1
Grid Ref: 448447, 303731

Map Name: National Grid

Map date: 1990-1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1963
 Revised 1990
 Edition N/A
 Copyright 1990
 Levelled 1963

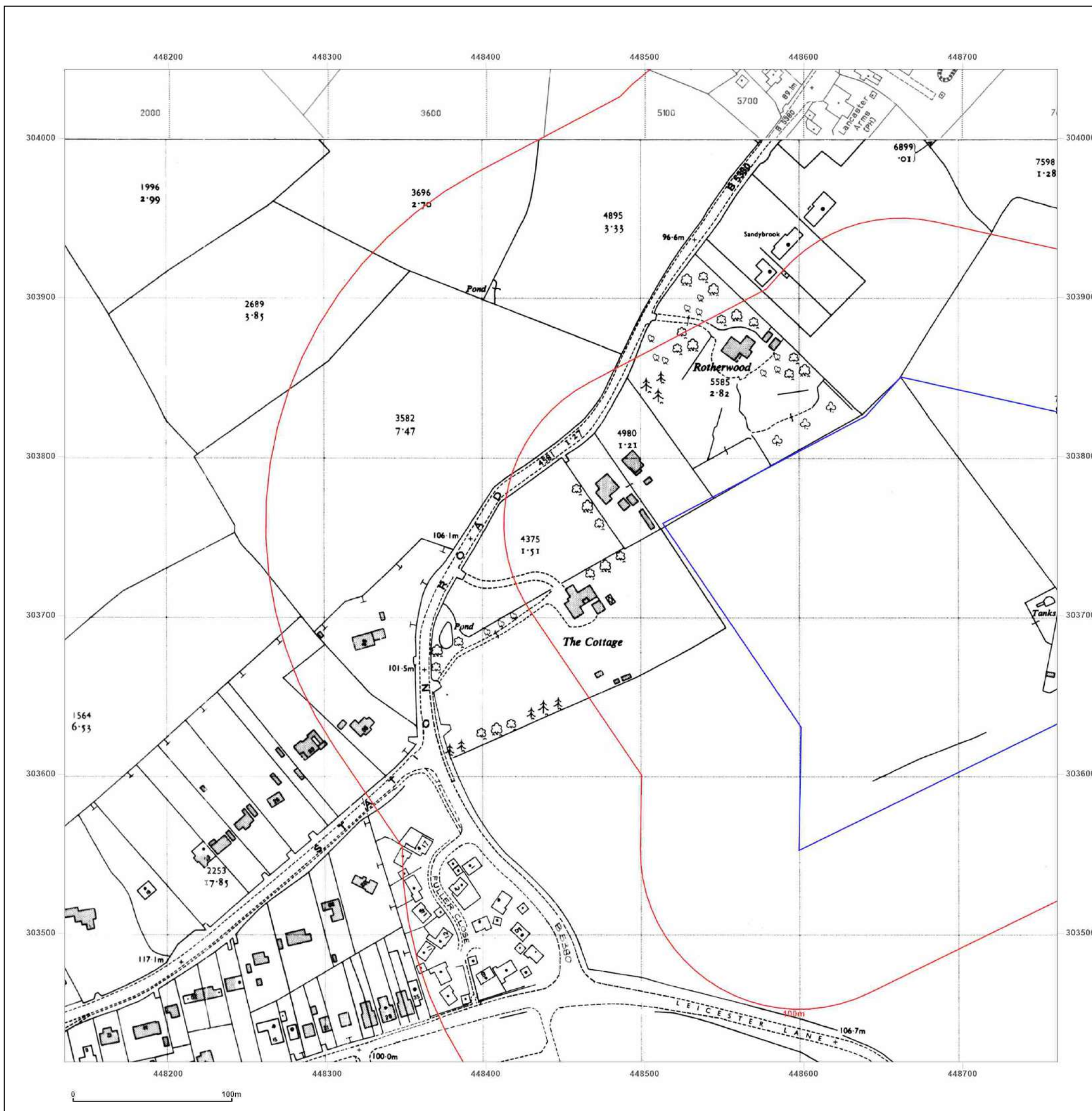


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Grid Ref: 448447, 303731

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
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Site Details:

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Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR_LS_2_1
Grid Ref: 449072, 303731

Map Name: County Series

Map date: 1886

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1886
 Revised 1886
 Edition N/A
 Copyright N/A
 Levelled N/A

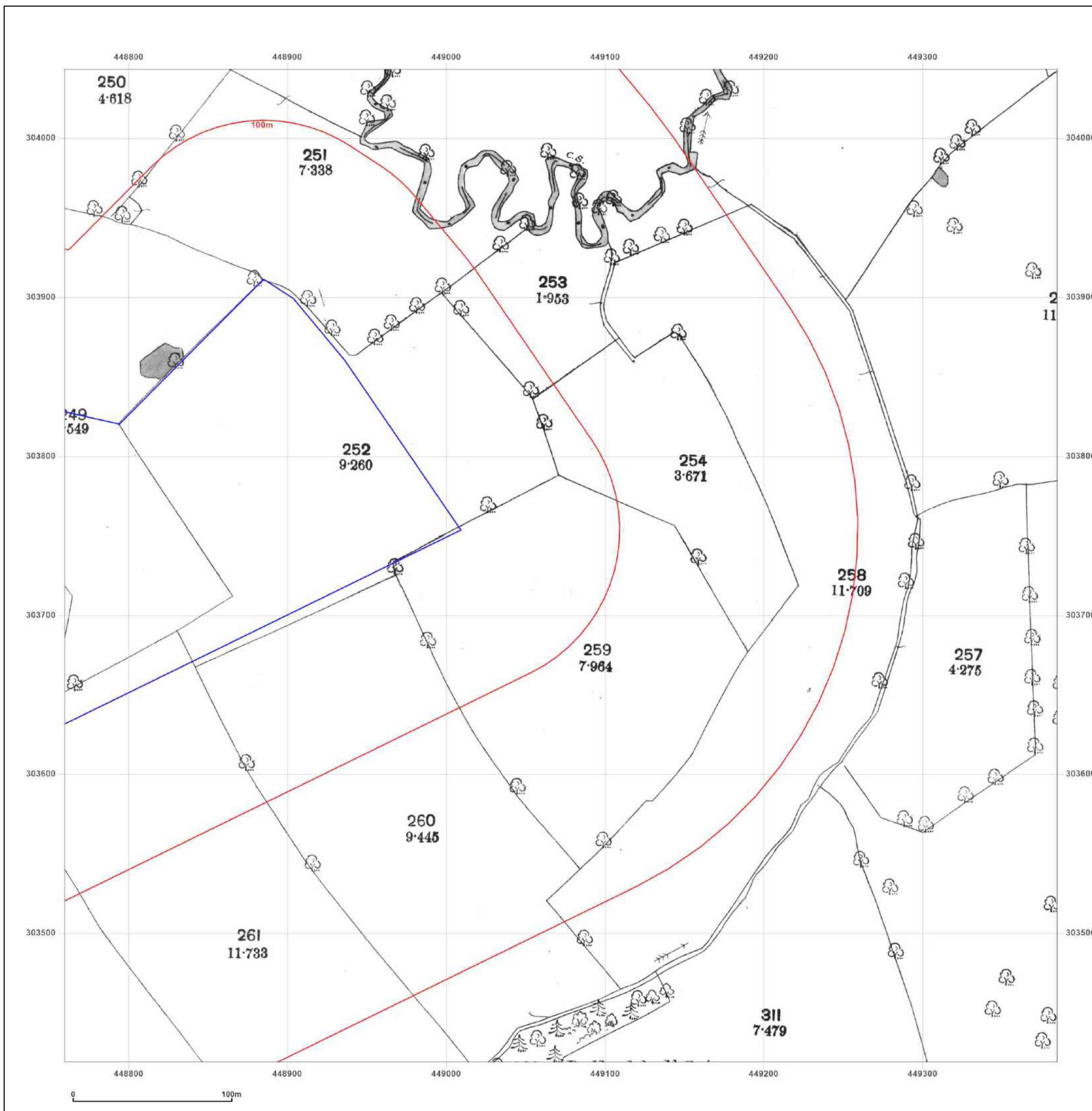


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Grid Ref: 449072, 303731

Map Name: County Series

Map date: 1903

Scale: 1:2,500

Printed at: 1:2,500



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 Revised 1903
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 Levelled N/A

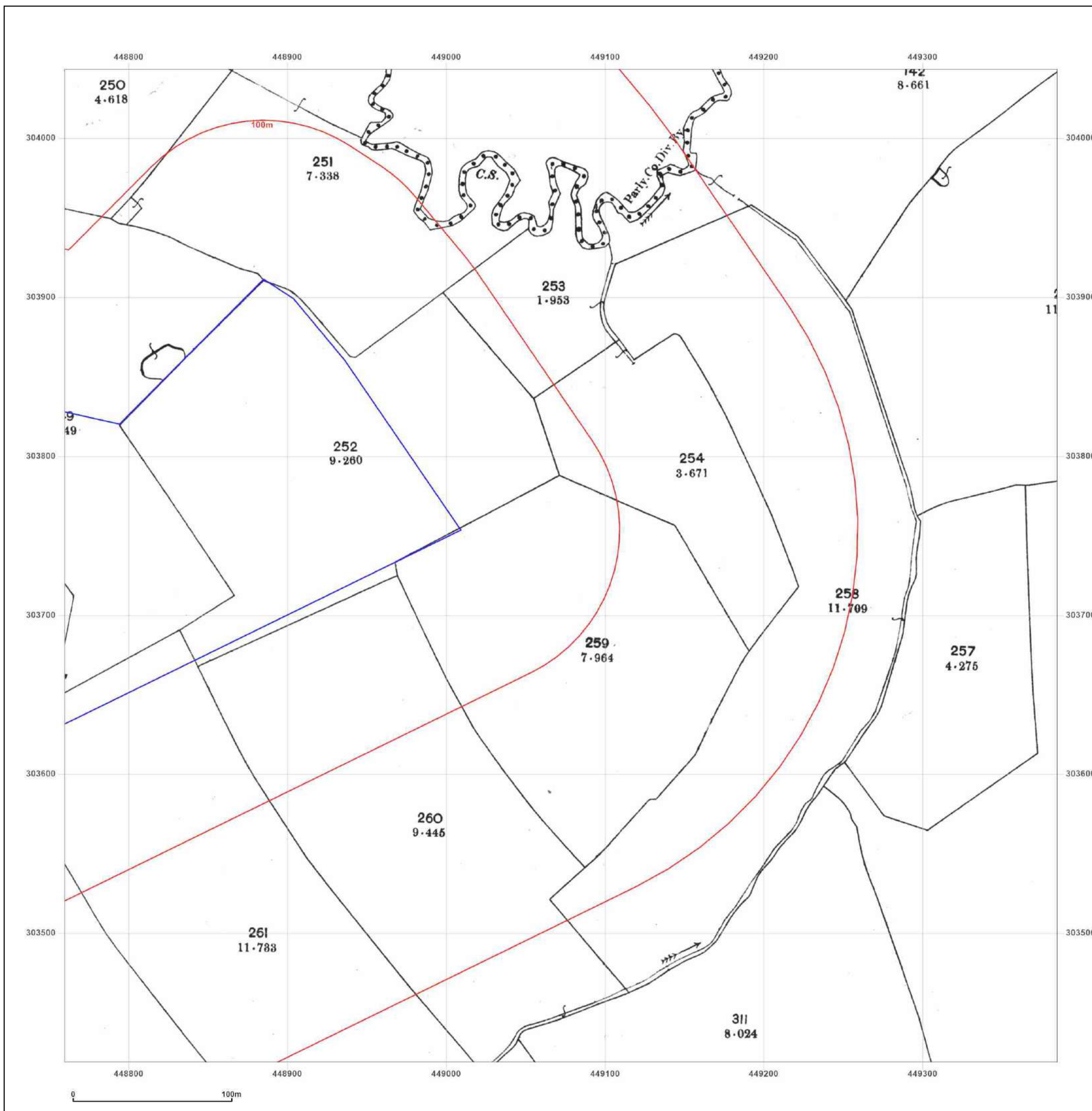


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Report Ref: GS-KMV-XLP-W3P-UDR_LS_2_1
Grid Ref: 449072, 303731

Map Name: County Series

Map date: 1916

Scale: 1:2,500

Printed at: 1:2,500



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 Copyright N/A
 Levelled N/A

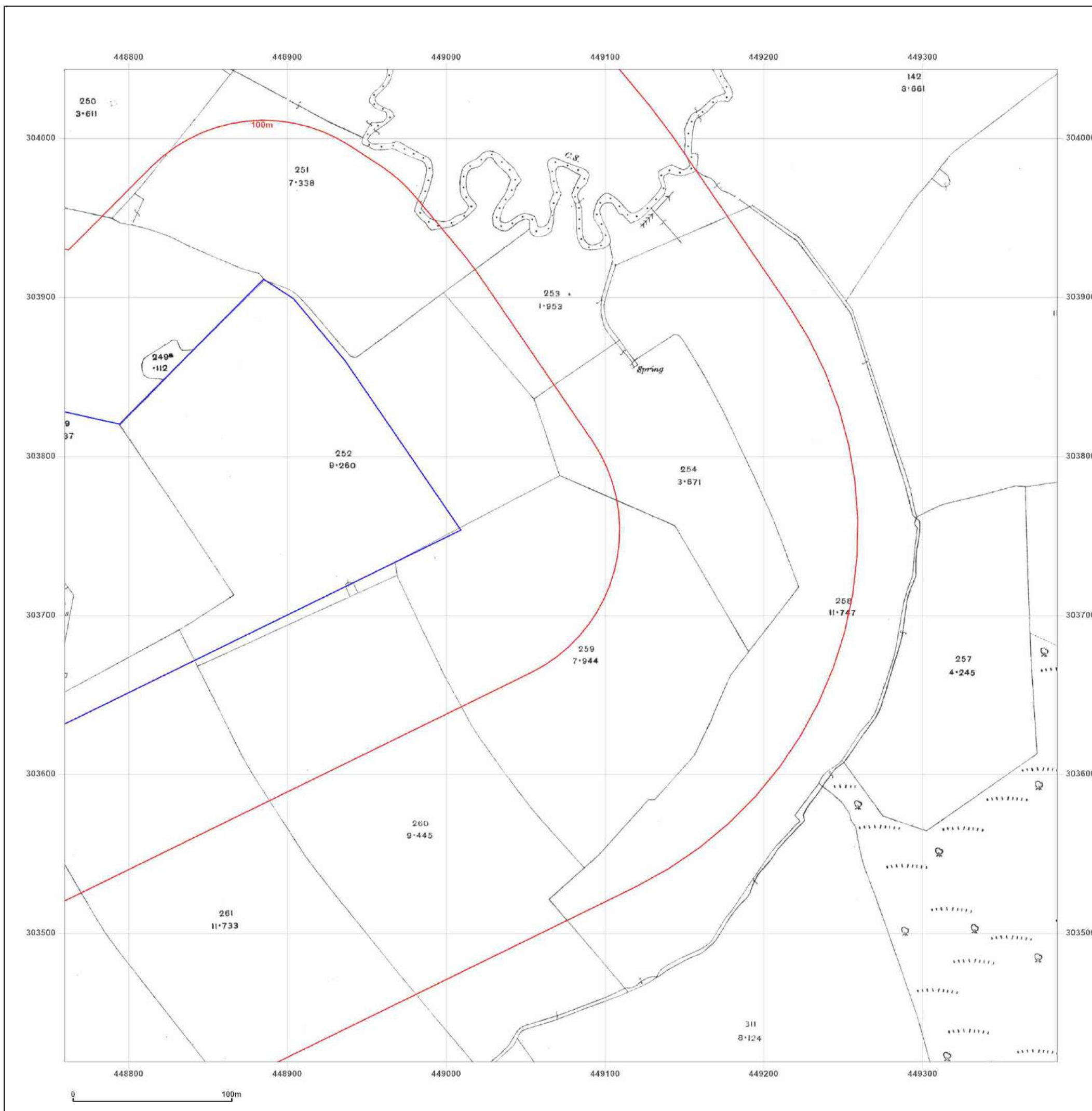


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Report Ref: GS-KMV-XLP-W3P-UDR_LS_2_1
Grid Ref: 449072, 303731

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



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 Revised 1930
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 Levelled N/A

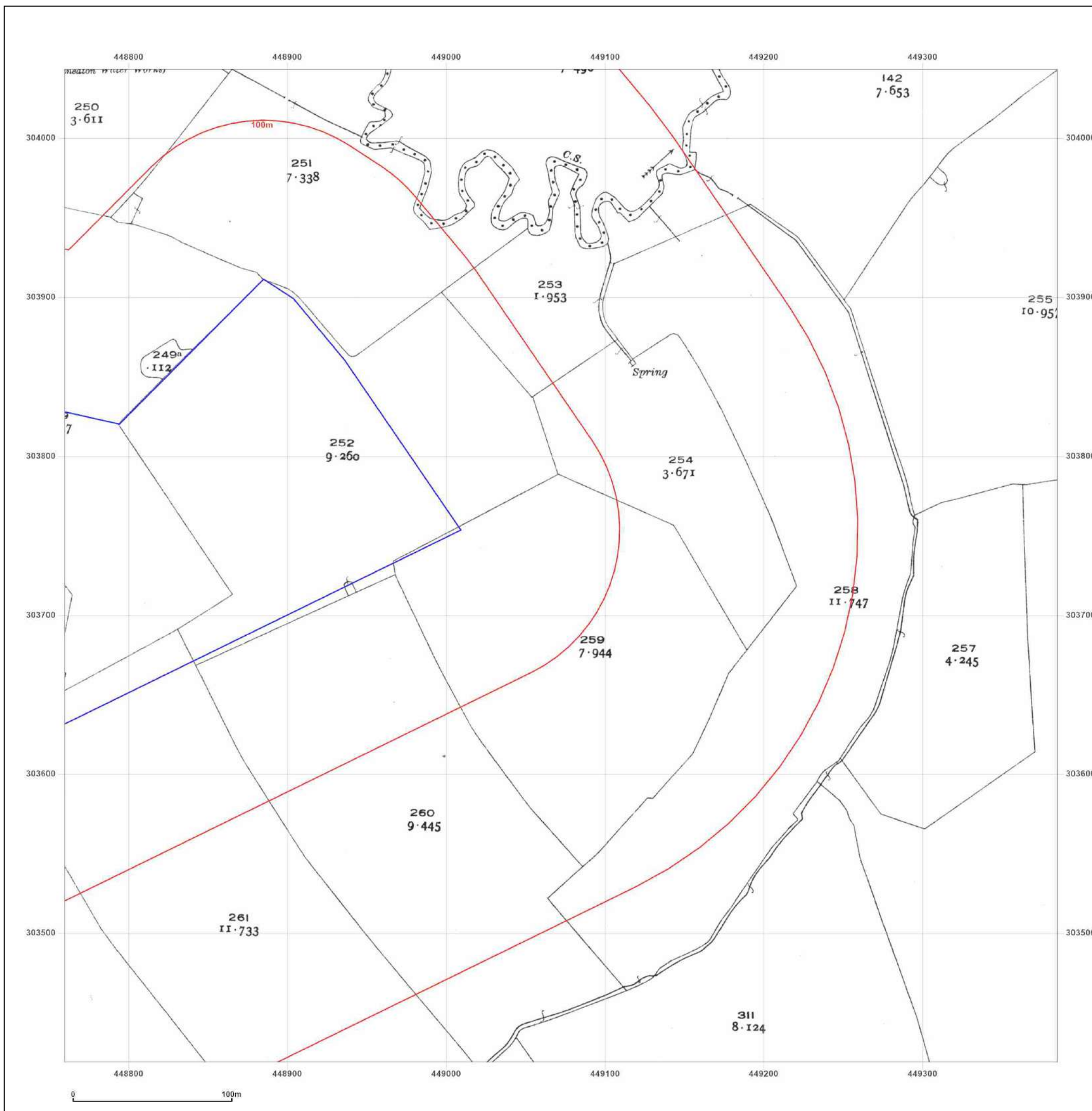


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Report Ref: GS-KMV-XLP-W3P-UDR_LS_2_1
Grid Ref: 449072, 303731

Map Name: National Grid

Map date: 1959

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
 Revised 1958
 Edition N/A
 Copyright 1959
 Levelled 1927

Surveyed 1958
 Revised 1958
 Edition N/A
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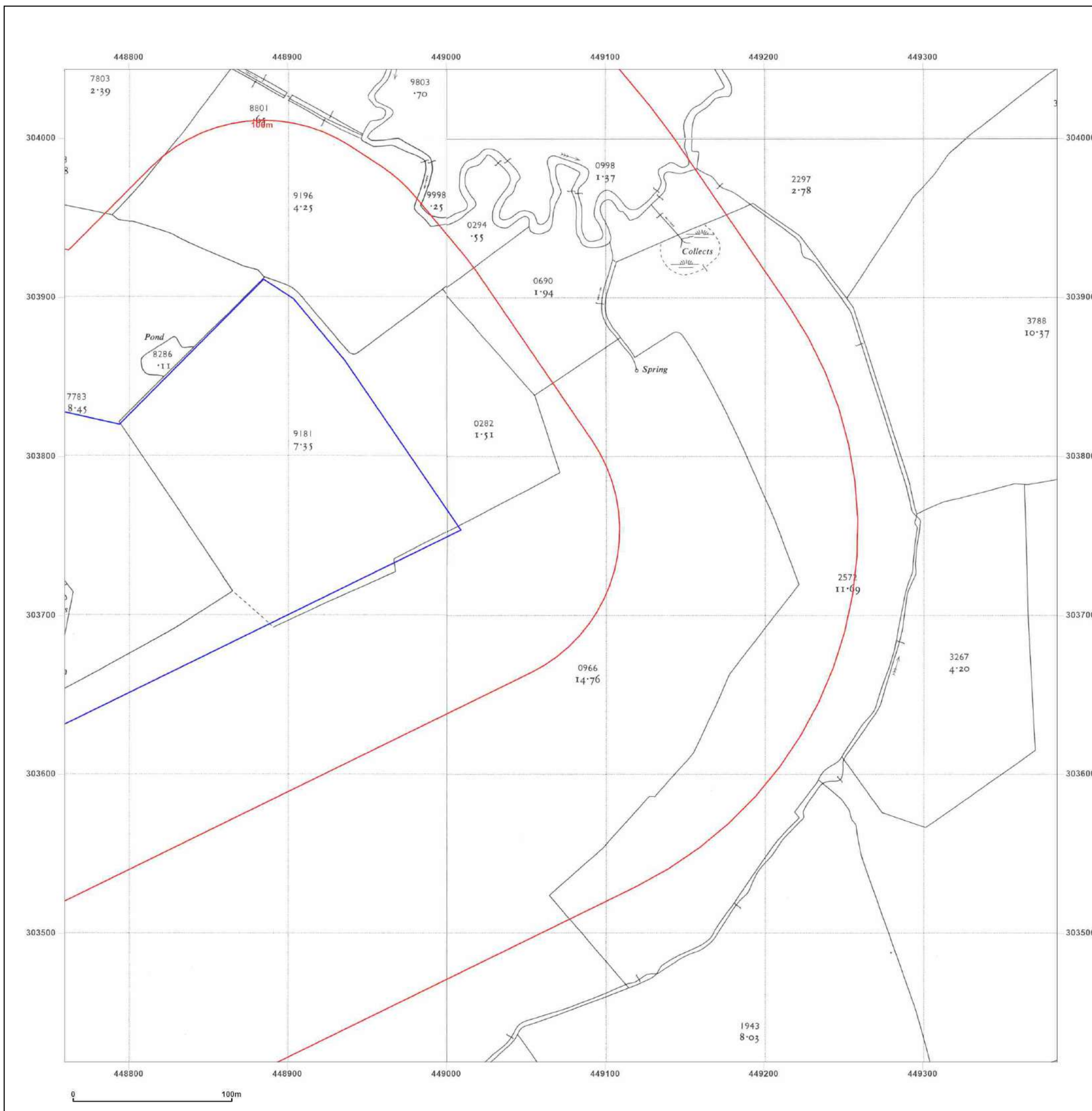


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Report Ref: GS-KMV-XLP-W3P-UDR_LS_2_1
Grid Ref: 449072, 303731

Map Name: National Grid

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Printed at: 1:2,500



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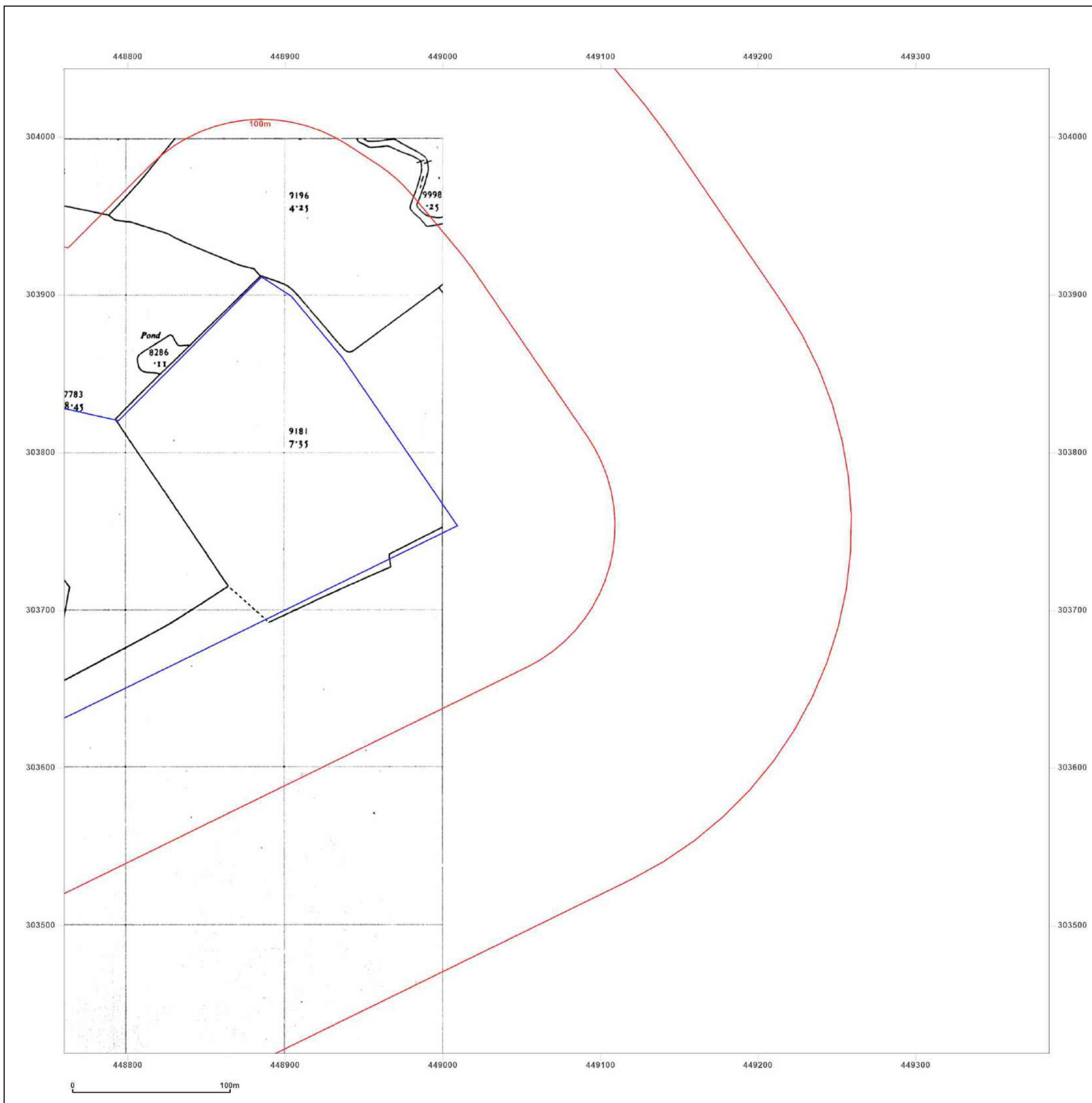


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Grid Ref: 449072, 303731

Map Name: National Grid

Map date: 1978

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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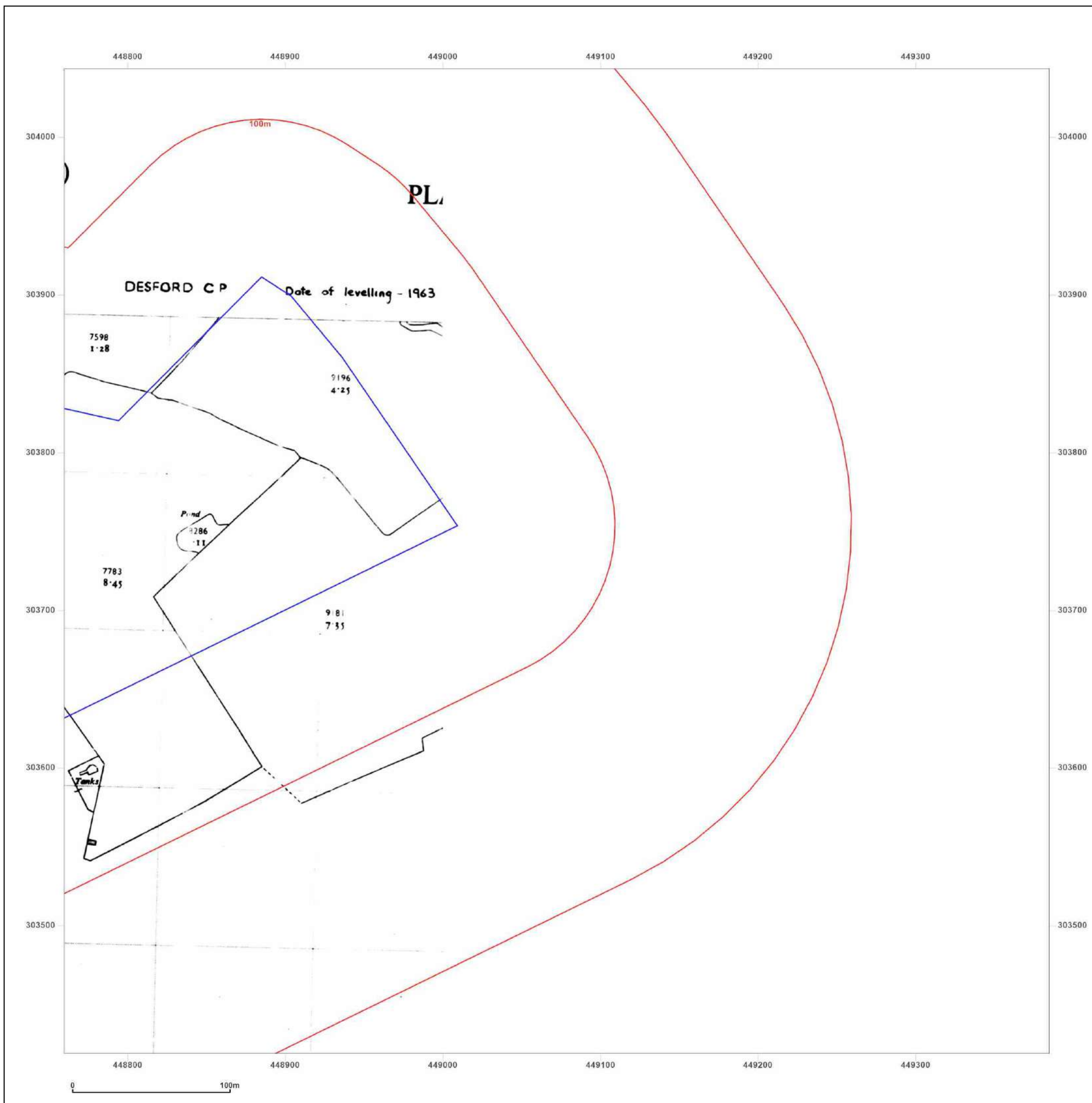


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Report Ref: GS-KMV-XLP-W3P-UDR_LS_2_1
Grid Ref: 449072, 303731

Map Name: National Grid
Map date: 1990-1994
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1994 Revised 1994 Edition N/A Copyright N/A Levelled N/A	Surveyed 1994 Revised 1994 Edition N/A Copyright N/A Levelled N/A
Surveyed 1963 Revised 1990 Edition N/A Copyright 1990 Levelled 1963	Surveyed 1994 Revised 1994 Edition N/A Copyright N/A Levelled N/A

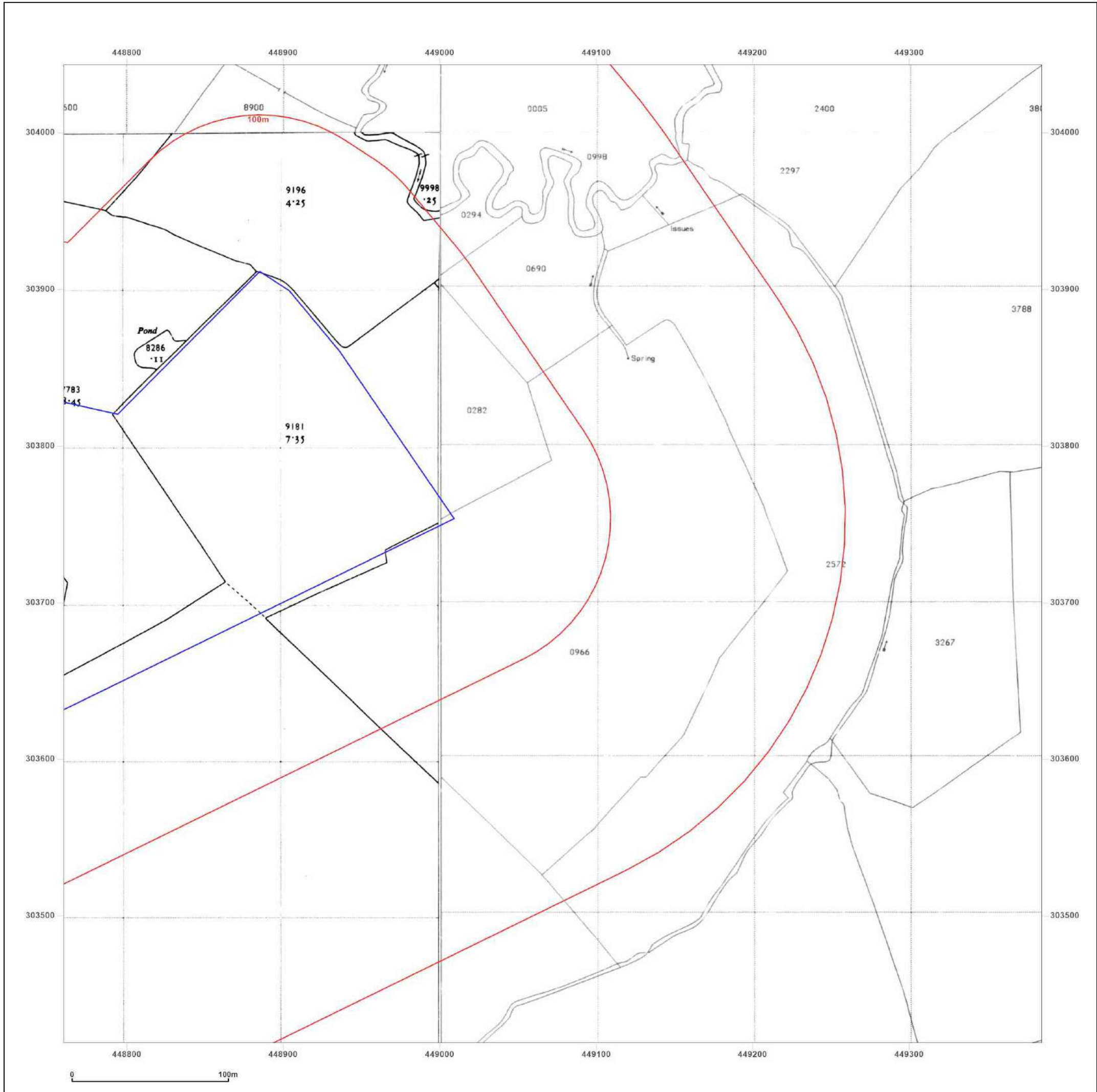


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Grid Ref: 449072, 303731

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
Copyright 1994
Levelled N/A

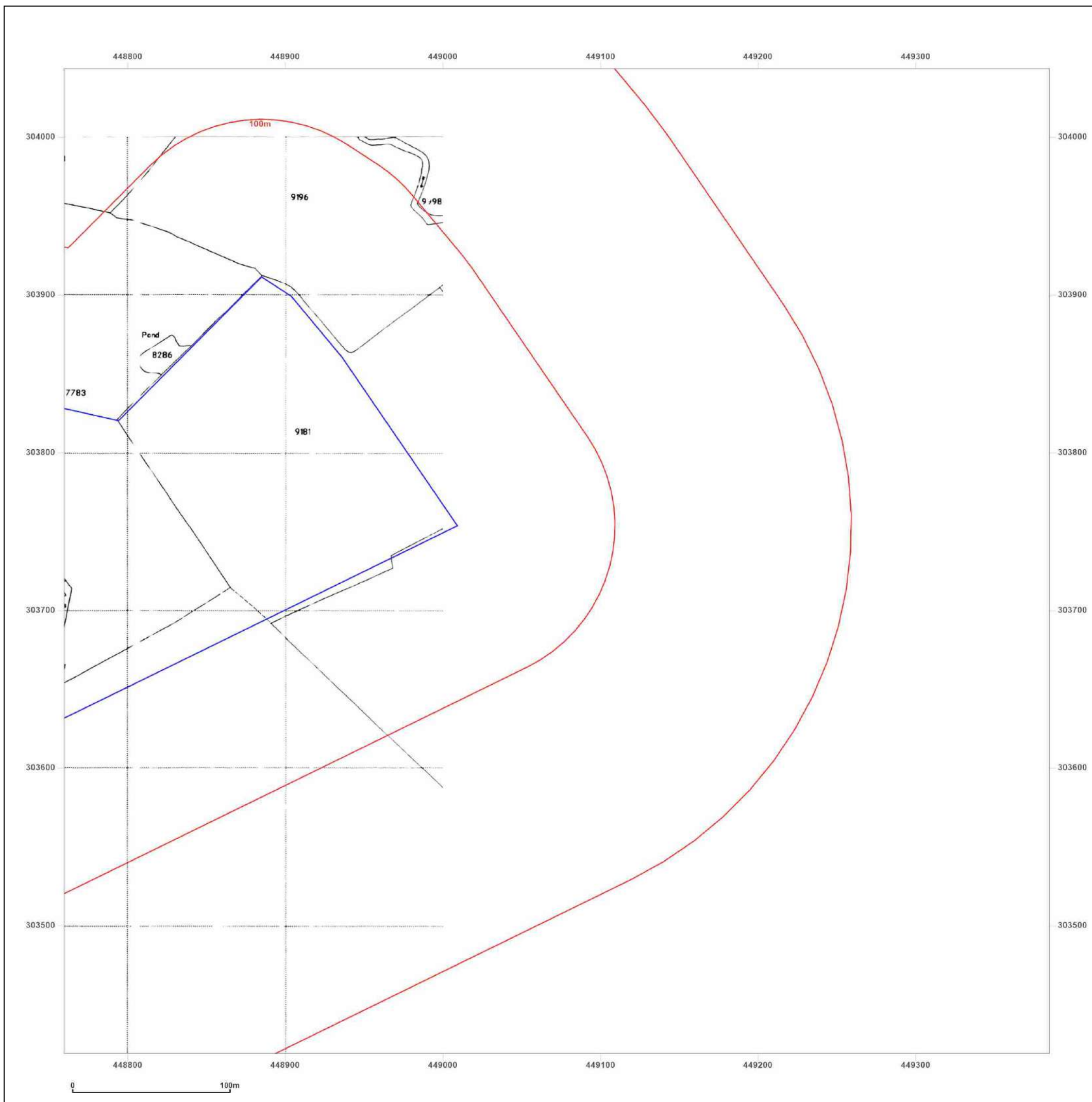


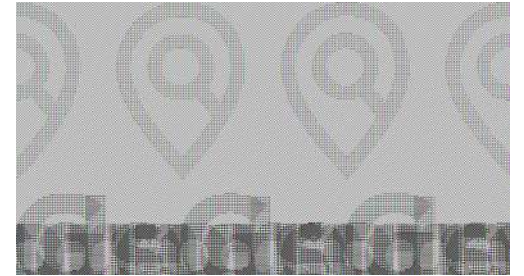
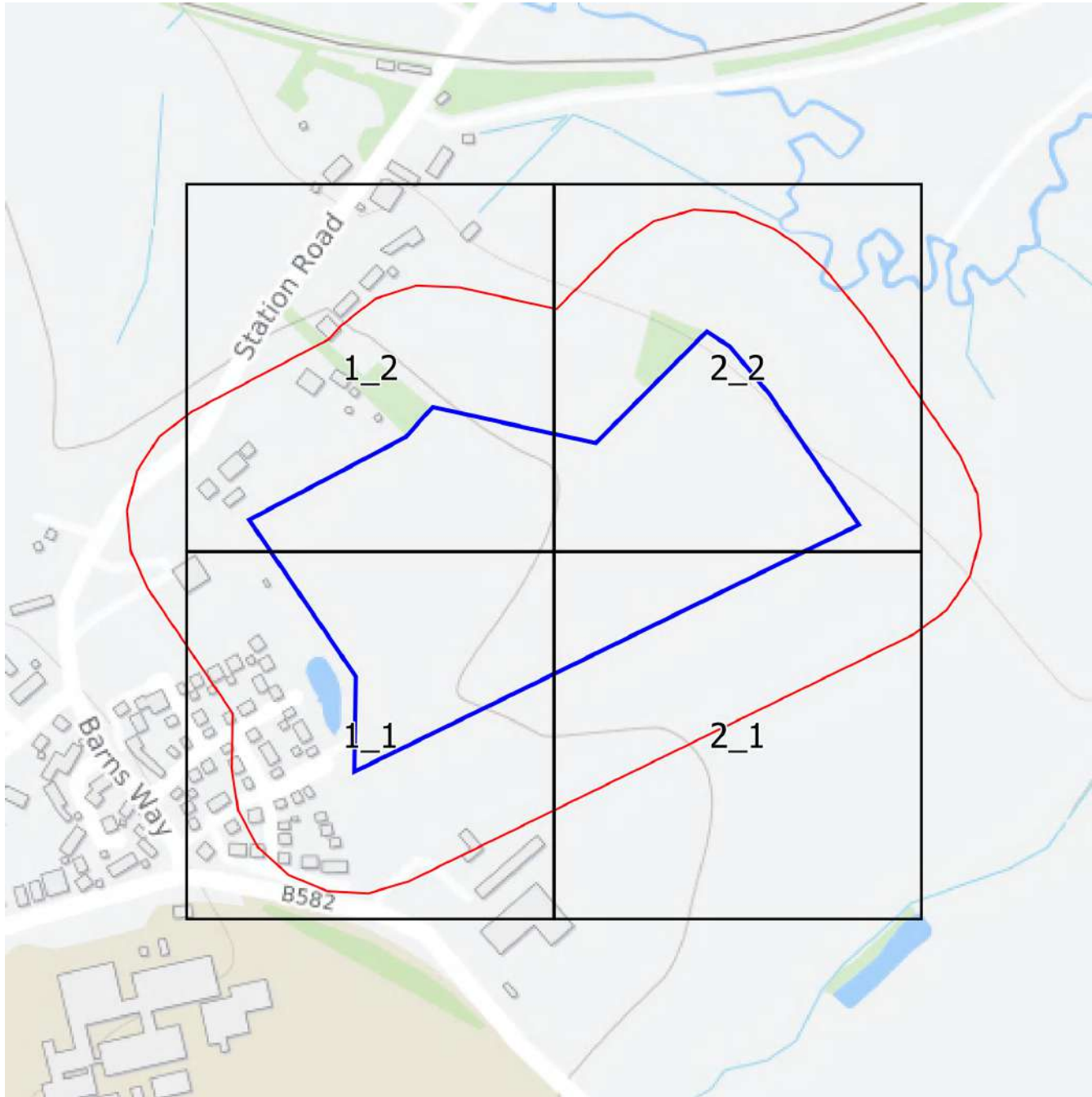
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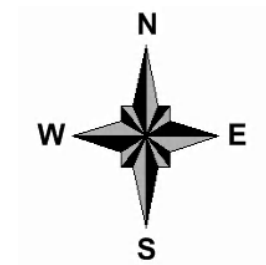
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Landline Scale Grid Index



Site Details:

Desford Both Sites

Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR_Landline_1_1
Grid Ref: 448610, 303581

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003

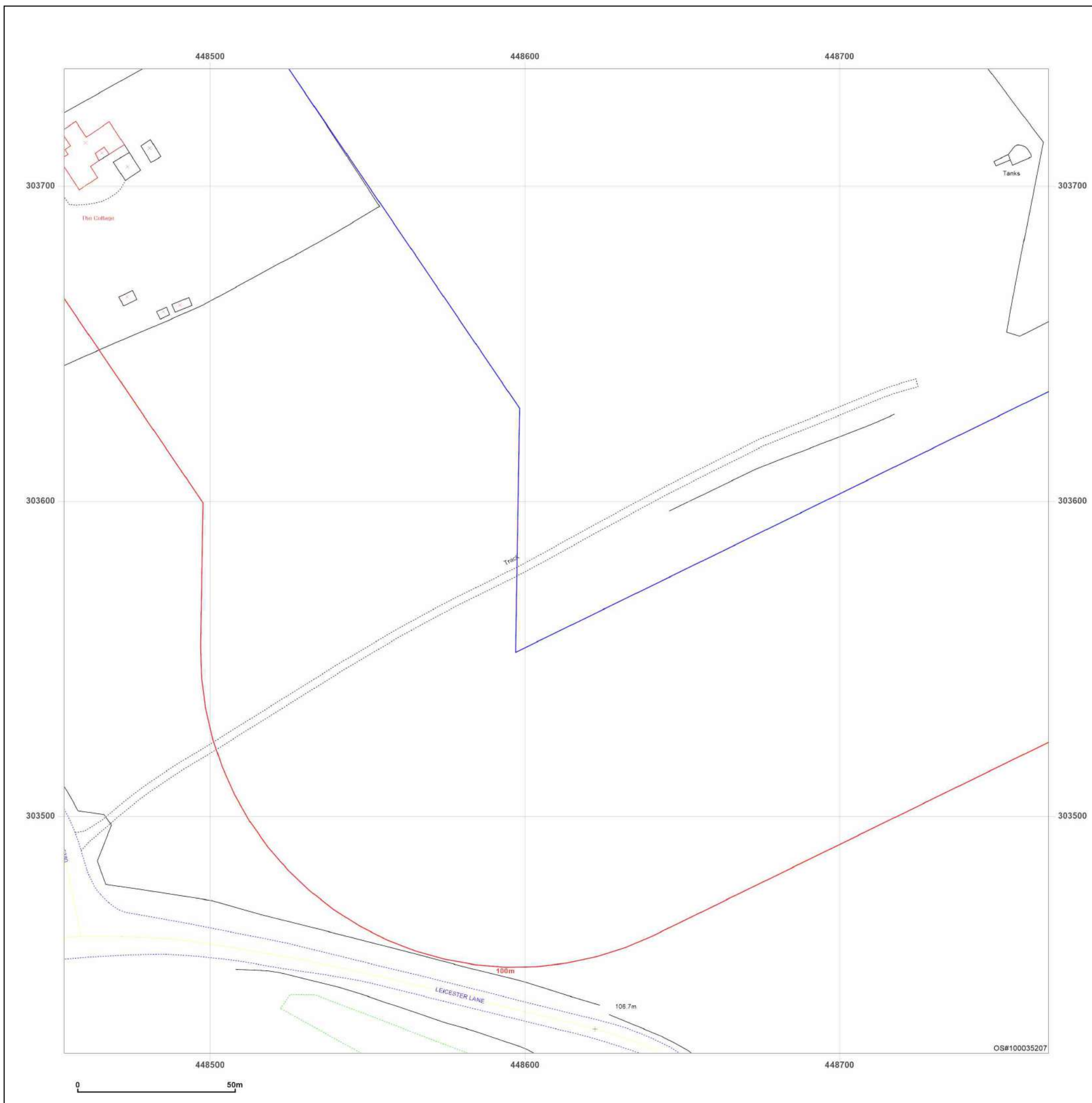


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Site Details:

Desford Both Sites

Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR_Landline_1_2
Grid Ref: 448610, 303881

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003

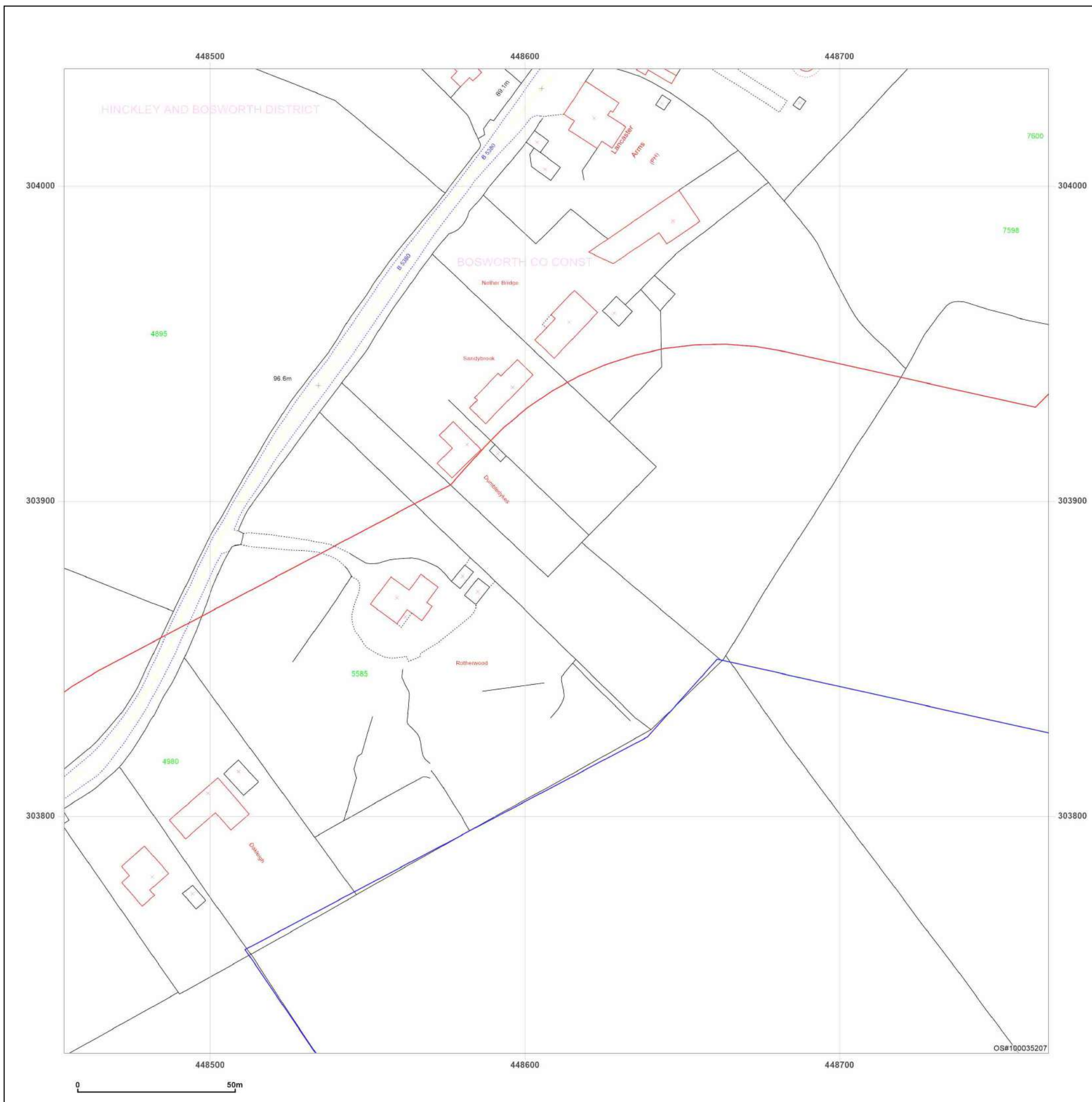


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Site Details:

Desford Both Sites

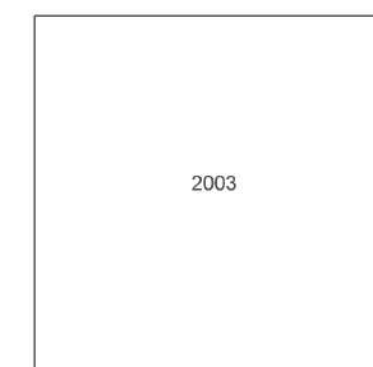
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Report Ref: GS-KMV-XLP-W3P-UDR_Landline_2_1
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Map Name: LandLine

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Printed at: 1:1,250

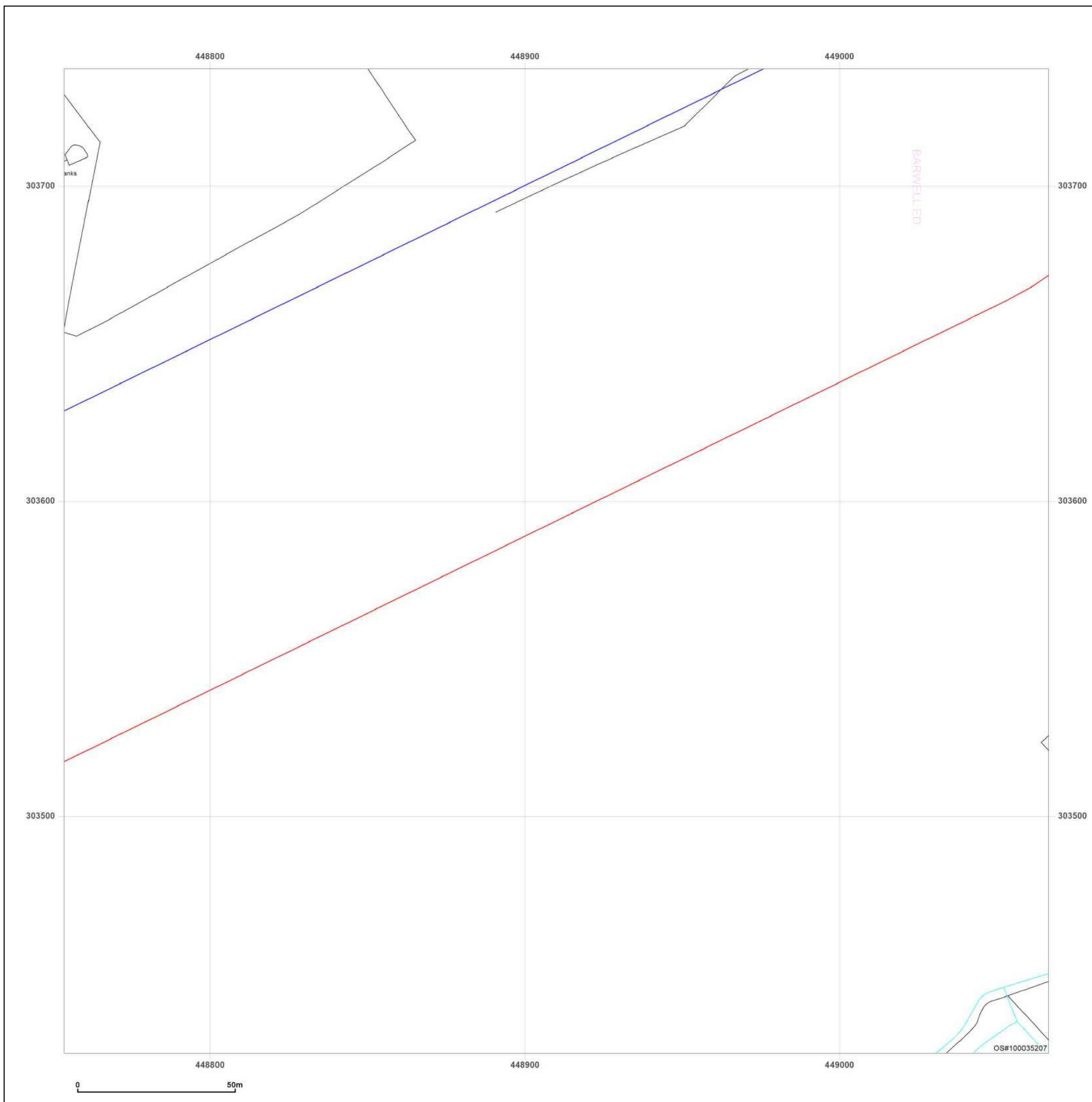


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Site Details:

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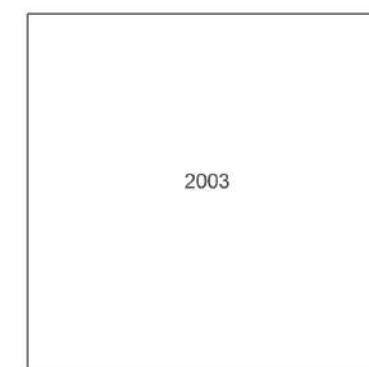
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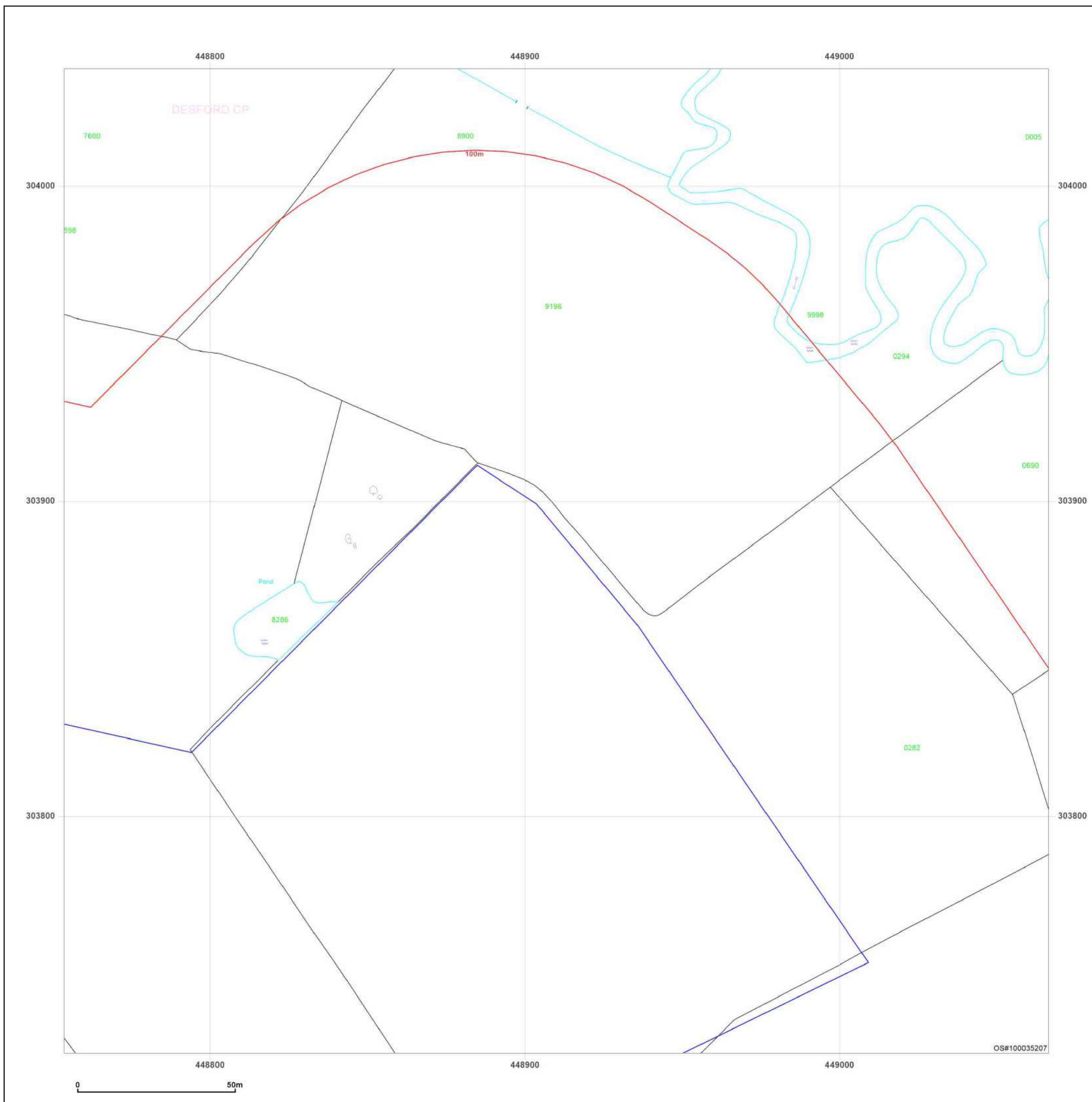


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Site Details:

Desford Both Sites

Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR
Grid Ref: 448760, 303731

Map Name: County Series

Map date: 1885

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1885
Revised 1885
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised 1885
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised 1885
Edition N/A
Copyright N/A
Levelled N/A

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Revised 1885
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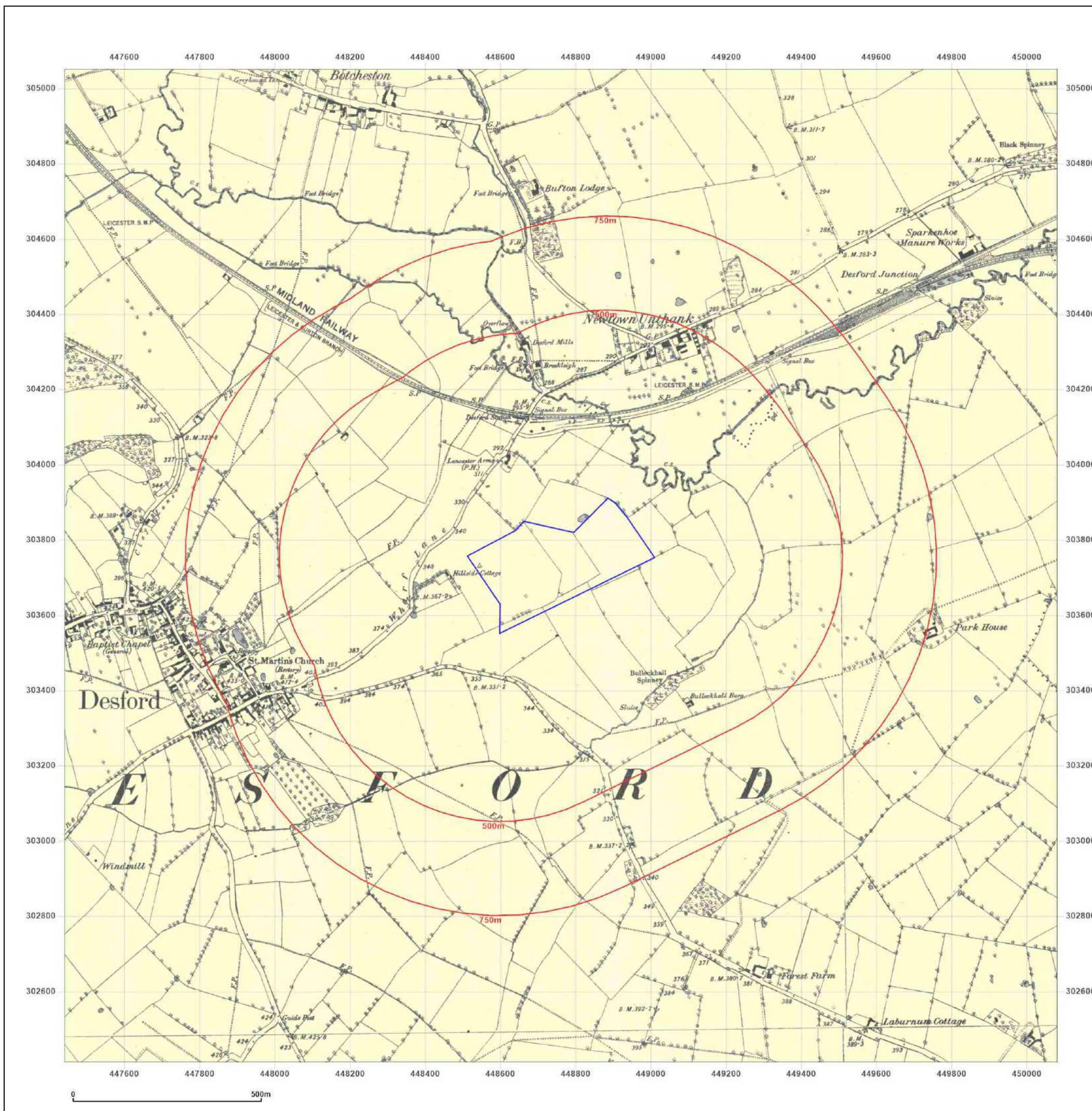


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Production date: 08 November 2024

Map legend available at:
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Site Details:

Desford Both Sites

Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR
Grid Ref: 448760, 303731

Map Name: County Series

Map date: 1901-1904

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1885
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1884
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised 1904
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Copyright N/A
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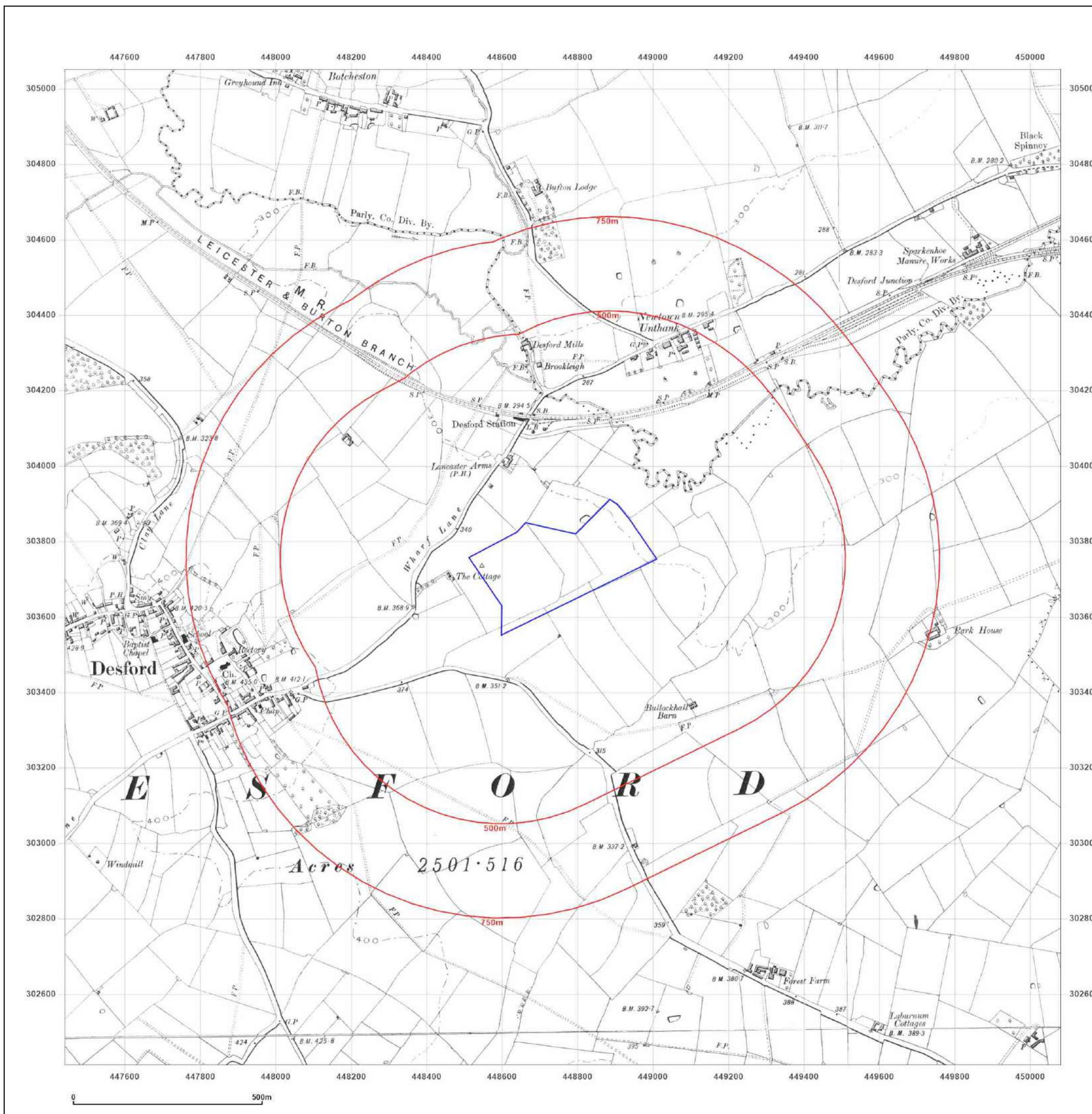


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Map legend available at:
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Site Details:

Desford Both Sites

Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR
Grid Ref: 448760, 303731

Map Name: County Series

Map date: 1914-1919

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1884
 Revised 1919
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1886
 Revised 1914
 Edition N/A
 Copyright N/A
 Levelled N/A

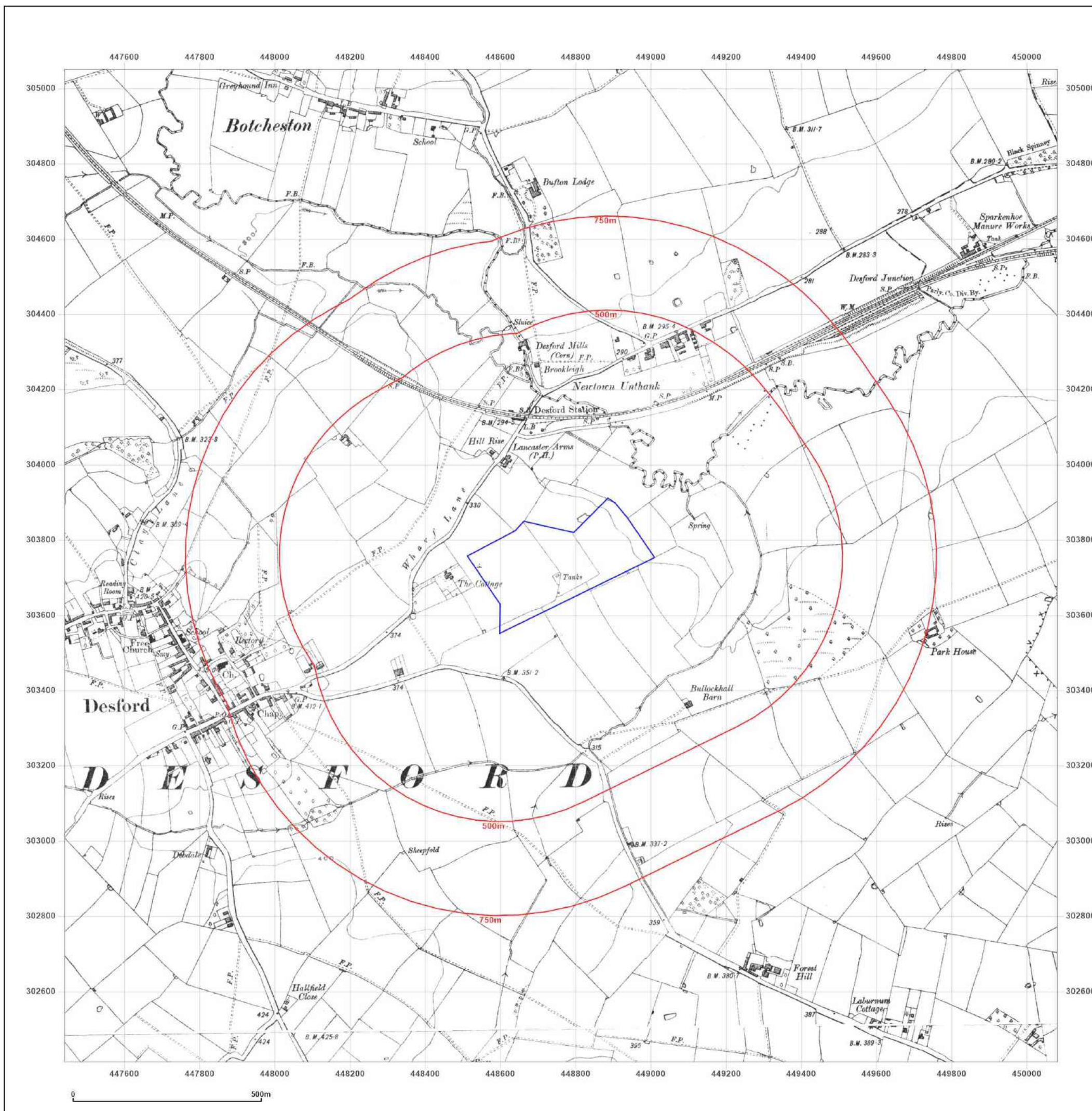


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Site Details:

Desford Both Sites

Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR
Grid Ref: 448760, 303731

Map Name: County Series

Map date: 1928-1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1884
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1884
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A

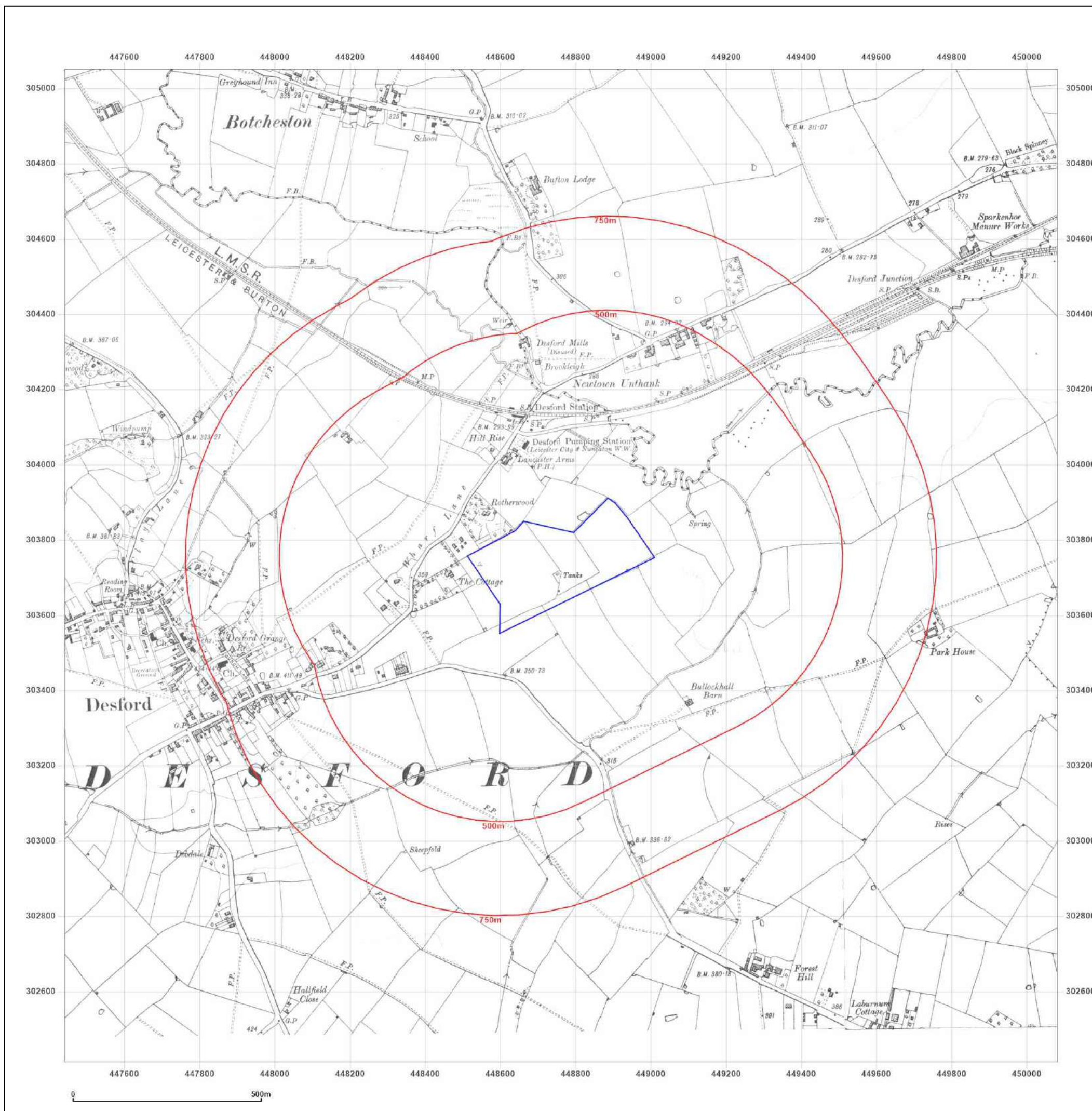


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Site Details:

Desford Both Sites

Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR
Grid Ref: 448760, 303731

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001

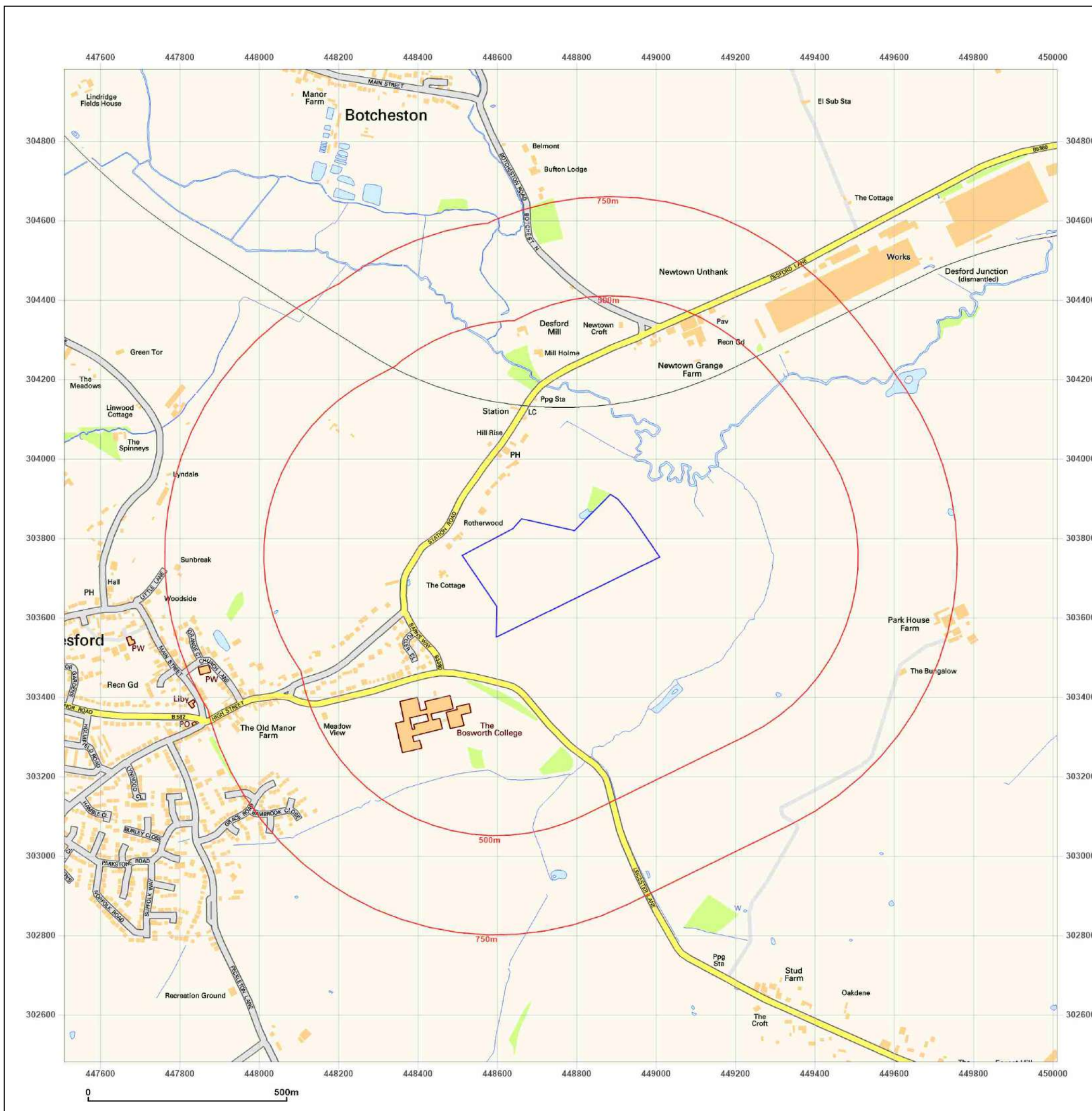


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Site Details:

Desford Both Sites

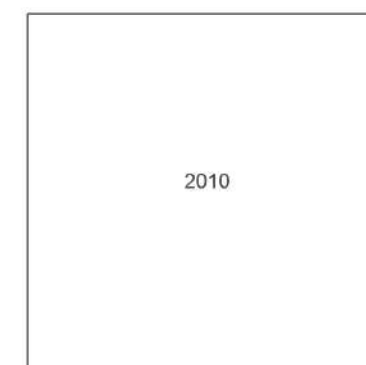
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Report Ref: GS-KMV-XLP-W3P-UDR
Grid Ref: 448760, 303731

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

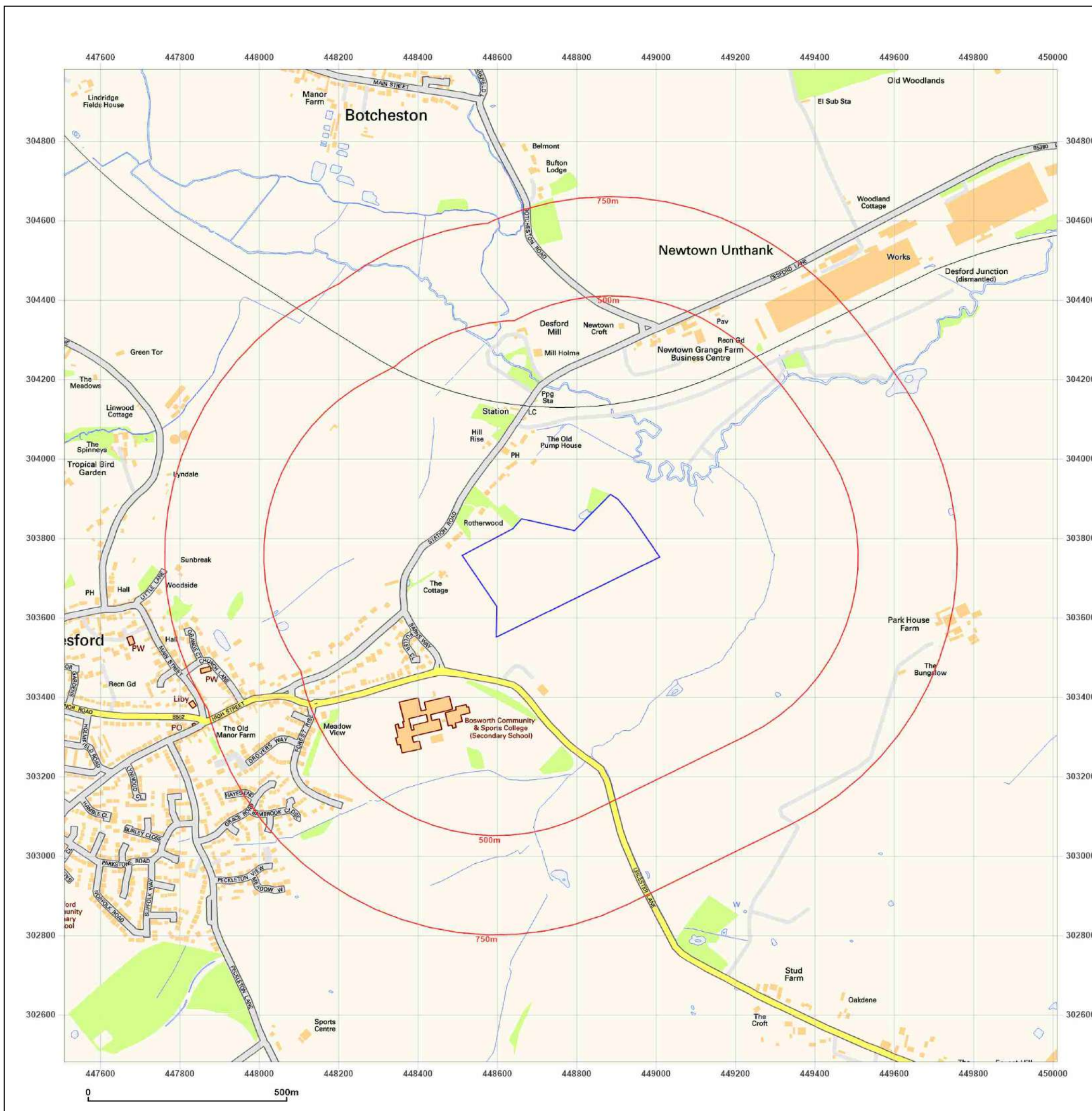


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Site Details:

Desford Both Sites

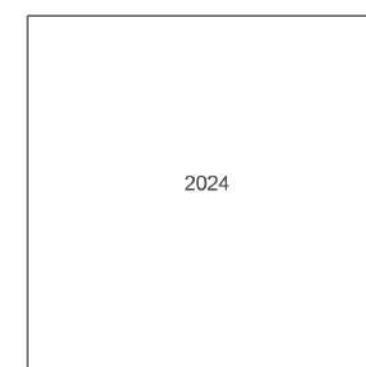
Client Ref: RLL 24-11-29
Report Ref: GS-KMV-XLP-W3P-UDR
Grid Ref: 448760, 303731

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000



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