



Geo-Environmental

DESK STUDY REPORT
for the land at
WEST END ROAD,
BURSLEDON,
HAMPSHIRE, SO31 8BN
on behalf of
WATES DEVELOPMENTS



Report:	DESK STUDY REPORT
Site:	WEST END ROAD, BURSLEDON, HAMPSHIRE, SO31 8BN
Client:	WATES DEVELOPMENTS
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FIGURE 1	Site Location Plan
FIGURE 2	Proposed Development Plan
FIGURE 3	Conceptual Site Model (Proposed Site Use)

APPENDICES

APPENDIX A	Desk Study Information
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1.0 INTRODUCTION

Geo-Environmental Services Limited (Geo-Environmental) was instructed by Wates Developments (the Client) to undertake a Phase 1 assessment of the geotechnical and geo-environmental factors pertaining to the proposed redevelopment of land at West End Road, Bursledon, Hampshire, SO31 8BN (herein referred to as 'the site'). The site's location is presented in Figure 1.

1.1 Proposed Development

The proposed development is understood to comprise a commercial development with access roads, parking, and associated infrastructure. A proposed development plan is shown in Figure 2.

1.2 Objectives

The investigation was to comprise a desk study of geotechnical and geo-environmental factors pertaining to the site, including a review of available historical maps, site walkover and an examination of other available sources of readily available geo-environmental information.

A Preliminary Risk Assessment (PRA) was to be undertaken as part of the desk study in accordance with Land Contamination Risk Management (LCRM). The objective of the risk assessment was to evaluate plausible pollutant linkages with respect to the proposed development, adjacent land uses, and the wider environment, in the context of planning, immediate liabilities under the Environmental Protection Act 1990, and risks posed to Controlled Waters under the Water Resources Act 1991.

1.3 Standards

Where practicable, the desk study was undertaken in accordance with the following documents and guidance:

- National Planning Policy Framework – July 2021;
- Planning Policy Statement 23 – Planning and Pollution Control, November 2004;
- Land Contamination Risk Management (LCRM), Environment Agency, updated July 2023;
- Model Procedures for the Management of Contaminated Land, CLR11, DEFRA and Environment Agency 2004 (withdrawn 2020);
- Environment Agency Guidance on Requirements for Land Contamination Reports, Version 1 dated July 2005;
- BS10175:2011+A2:2017 - Investigation of Potentially Contaminated Sites - Code of Practice, BSI 2017;
- BS5930: 2015+A1:2020 - Code of Practice for Site Investigations, BSI 2020;
- EN ISO 14688 Geotechnical Investigation and Testing Part 1-2002 and Part 2-2004;
- BS1377: 1990 - Soils for Civil Engineering Purposes, BSI1990;
- NHBC Standards Chapter 4.1 Land Quality - Managing Ground Conditions;
- NHBC Standards Chapter 4.2 Building Near Trees;
- CIRIA C665 – Assessing risks posed by hazardous ground gases to buildings (2007);
- NHBC 10627-R01(04) – Guidance on evaluation of development proposals on sites where methane and carbon dioxide are present (2007);
- BS8485:2015+A1:2019 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings;
- Department of Environment - Industry Profiles (1995 - 1996).

1.4 Conditions

The desk study data obtained for the site is assumed to be factually correct and up to date at the point of their acquisition. No liability is taken for any omissions or inaccuracies in the data acquired. It should also be noted that changes to the desk study data may occur following the production of this report, Geo-Environmental accepts no liability where this subsequently affects the assessment presented herein.

The information collected from the desk study and site walkover has been used to provide an interpretation of the geotechnical and environmental conditions pertaining to the site. The recommendations and opinions expressed in this report are based on the data obtained. Geo-Environmental takes no responsibility for conditions that have either not been revealed in the available records or that occur between or under points of any physical investigation. Whilst every effort has been made to interpret the conditions, such information is only indicative, and liability cannot be accepted for its accuracy.

It must be noted that in particular the concentrations and levels of mobile liquid and gaseous materials are likely to vary with time. The results obtained may therefore only be representative of the conditions at the time of sampling. The absence of asbestos within soil samples analysed does not guarantee the absence of asbestos within buildings, within or bonded to concrete, as discrete burials, or within the soil mass elsewhere within a site. This report must not be taken as, or assumed to imply any guarantee that a site is free of hazardous or potentially contaminative materials.

Information contained in this report is intended for the use of the Client, and Geo-Environmental can take no responsibility for the use of this information by any party for uses other than that described in this report. Geo-Environmental makes no warranty or representation whatsoever expressed or implied with respect to the use of this information by any third party. Geo-Environmental does not indemnify the Client or any third parties against any dispute or claim arising from any finding or other result of this investigation report or any consequential losses.

This report remains the property of Geo-Environmental and the Client has no rights to, or reliance upon this document or supporting documents until such time as payment has been received in full for all invoices for works undertaken in connection with this report.

Assessment criteria or other parameters developed for the evaluation of contamination on this site are based on a number of assumptions regarding exposure and toxicology. Exposure to contaminants and levels of adverse effects may therefore vary. Whilst reasonable care and expertise has been employed in the development of such criteria, no liability is accepted in this respect. Other criteria or guidance on the development of assessment criteria may be published in the future and no liability is accepted in this respect.



2.0 DESK STUDY

The findings of the Phase I desk study are presented in the following section. A copy of the historical maps and other information obtained as part of the desk study are presented in Appendix A. Comments made in the following section regarding possible ground conditions on the site are based purely on the desk study and associated site walkover.

2.1 Site Description

The site was an irregular shaped plot of land located to the west of West End Road and north of Windhover Roundabout, Bursledon. The site was accessed via a locked gate off West End Road which led down a track to a farmyard in the southeastern corner of the site. The farmyard comprised a barn, stables and shipping containers. At the time of the ground investigation a portion of the farmyard was fenced off for use as seasonal Christmas tree sales. Furthermore, the site was also noted to be in use as a dog training facility. The northern portion of the site comprised additional fields and dense woodland.

The remainder of the site comprised open fields of grass which sloped down to the southwest. At the time of the ground in the northwestern portion of the site was soft and often waterlogged.

The land to the north of the site comprised residential properties, a caravan sales centre, a car dealership, an ambulance station and woodland. The land to the west comprised open fields with residential development to the southwest. A roundabout was present to the south of the site, beyond which there was a supermarket. The land east of the site comprised open fields and residential housing, beyond which lay the M27.

2.2 Geology

With reference to British Geological Survey (BGS) mapping, the geology of the site was anticipated to comprise superficial deposits comprising River Terrace Deposits to the west and east of the site, no superficial deposits were recorded to the centre. The bedrock comprised the Wittering Formation. Given the previous agricultural land use and surrounding developed land there remains the possibility that there may be areas of reworked, disturbed or Made Ground across the site. Mapping indicates area of Made Ground 84m to southeast and 93m to the northeast of the site.

BS5930:2015+A1:2020 defines **Made Ground** as anthropogenic ground in which the material has been placed without engineering control and/or manufactured by man in some way, such as through crushing or washing, or arising from an industrial process. Great variations in material type, thickness and degree of compaction invariably occur and there can be deleterious or harmful matter, as well as potentially methanogenic organic material. In addition, where identified it is not uncommon for asbestos to be present within Made Ground soils.

The rivers of the south-east of England, including The River Thames and its tributaries, have been subject to at least three changes of level since Pleistocene times. One result has been the formation of a complex series of **River Terrace Deposits**. The deposits are generally found at an elevation close to or higher than that of the existing rivers, and generally comprise sands and gravels of roughly bedded flint or chert gravels varying degrees of coarseness.

The **Wittering Formation** is the lowest unit of the Bracklesham Group and was deposited by intertidal sedimentation during the Eocene. It comprises mainly brown grey laminated sandy clays and clayey sands with beds of green to brown glauconitic sands. Lignite beds may be encountered towards the base of the formation.



One BGS bore hole log was recorded on the south side of the site. The log recorded 'sandy gravelly silt' Made Ground to 0.50m, 'orangish brown to reddish brown sandy clay to silty clay' of the Wittering Formation to 4.90m. The 'grey becoming brownish grey silty clay' of the London Clay Formation was described to 10.00m. A further 15No. boreholes were identified within c.100m of the site. Sand was encountered between the Wittering Formation and the London Clay Formation up to c.2.0m in thickness, and the base of the Wittering Formation varied to a maximum of 9.90m bgl.

2.3 Hydrogeology

With reference to the Groundsure dataset, the River Terrace Deposits and Wittering Formation were both identified to be Secondary Undifferentiated Aquifers.

Secondary Undifferentiated aquifer is the assigned in cases where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.

No Source Protection Zones (SPZ) were identified within 1km of the site boundary.

No groundwater abstractions were identified within a radius of 1km of the site boundary.

The Groundsure data set identified 3No. discharge consents to land/soakaway within a radius of 1km from the site:

- 362m N, Dumbleton Close, SO19 6AP. Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT – NOT WATER COMPANY. Permit Number: P05702. 3No. permit versions (1: 03/05/95 – 14/10/01. 2: 15/10/01 – 20/12/12. 3: 21/12/12 – Present). Status: VARIED UNDER EPR 2010.

The centre of the site was indicated to be located in an area of negligible risk from groundwater flooding. The north eastern and south western portions of the site were identified as low risk.

Both the Wittering Formation and the River Terrace Deposits were classified as being medium vulnerability of groundwater from surface contaminants.

2.4 Hydrology

With reference to the Groundsure dataset, the nearest surface water features comprised a stream/ditch ending in a pond located 208m east of the site.

No surface water abstractions were identified within a 1km radius of the site boundary.

No discharge consents to surface water were identified within a 1km radius of the site boundary.

The Groundsure dataset identified no Pollution Incidents (EA) to controlled waters within a radius of 1km of the site boundary.

Generally, the site was not shown to be at particular risk of surface water flooding. However, a narrow strip running through from the south west boundary towards the centre of the site and the western corner of the site was indicated to be at risk of surface water flooding with a maximum risk of 1 in 30 year return period with depths greater than 1.0m.



The site was not recorded within an area at risk of flooding from rivers and the sea.

2.5 Sensitive Land Uses

A search was made of environmentally sensitive areas, including areas of green belt, scenic or natural beauty, parks, reserves, nitrate zones, protected conservation and scientific areas.

The site was located within a Nitrate Vulnerable Zones (NVZ):

- On site. Hamble Estuary Eutrophic NVZ (TraC). Eutrophic Water. NVZ ID: 3. Status: Existing.

No Ramsar sites, Special Areas of Conservation (SAC), Special Protection Areas (SPA), National Nature Reserves (NNR) were identified within 1km of the site boundary. A single Local Nature Reserve (LNR) was noted:

- 7m N associated with Netley Common.

2.6 Environmental Data

Searches of other various environmental databases were made as part of the desk study, including air pollution control sites, Part IIA contaminated land, Integrated Pollution Control (IPC) and Integrated Pollution Prevention and Control (IPPC) site, registered radioactive substances, Control of Major Accident Hazard (COMAH) sites, explosives sites, Notification of Installations Handling Hazardous Substances (NIHHS) sites, planning permissions for sites involving hazardous substances, contemporary trade directories and fuel station registers.

Two Licensed Pollutant Releases was recorded within 1km of the site, details of which are provide below:

- 362m S. Tesco, Hamble Lane, SO31 8GN; Process: Unloading of Petrol into Storage at Service Stations; Status: Current Permit; Permit Type: Part B; Enforcement: No Enforcements Notified.
- 408m W. Sholing SF Connect, 430 Bursledon Road, SO19 8NG; Process: Unloading of Petrol into Storage at Service Stations; Status: Current Permit; Permit Type: Part B; Enforcement: No Enforcements Notified.

No Integrated Pollution Control Sites were identified within 1km of the site from the Groundsure dataset.

Fifty one historical industrial land use entries were identified by the Groundsure dataset within 500m of the site. These were grouped into thirty seven entries by Groundsure were the same feature has multiple entries. Fourteen historical industrial land use entries were identified within 500m of the site, details of which are provided below:

- 16m W. Ambulance station. 1987 – 1993.
- 21m SW. Unspecified heap. 1967.
- 272m NE. Unspecified ground workings. 1908 – 1942.
- 295m W. Unspecified works. 1967.
- 319m W. Unspecified heap. 1908.
- 346m SE. Windmill. 1895.
- 367m SE. Corn windmill. 1868.
- 388m SE. Disused windmill. 1977 – 1993.
- 388m SE. Unspecified tank. 1967.
- 395m SE. Windmill. 1957
- 396m SE. Unspecified tank. 1908 – 1942.
- 397m SE. Unspecified/Old windmill 1898 – 1957.



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- 400m SE. Old windmill. 1908.
- 417m SE. Unspecified tank. 1942.

A further twenty three entries relate to shallow ground workings, further details of which can be found in Section 2.7.

One historical tank was identified within 500m of the site, details of which are provided below:

- 214m E. Unspecified tank. 1965.

Two records of historic garages were identified within 500m of the site, details of which are provided below:

- 37 - 42m W. Garage. 1965 – 1997.
- 380 – 388m W. Garage. 1965 – 1989.

One historical and three recent petrol stations were identified within 500m of this site details of which are below:

- 1 – 3m NE. Filling station. 1970. Historical.
- 70m W. Obsolete company. Bursledon road, SO19 8NJ. LPG: N/A. Status: Obsolete.
- 346m S. Tesco Extra. Hamble Lane, SO31 8GN. LPG: No. Status: Open.
- 366m W. BP. 430 Bursledon Road, SO19 8NG. LPG: Yes. Status: Open.

The petrol filling stations and garage within 100m of the site boundary are considered to represent a potential risk of contamination to the site. The remaining land uses listed in this section are located a sufficient distance from the site and/or have a low contamination potential so as to have been unlikely to have a detrimental effect on the site and, as such, have not been considered further within the assessment.

Seventeen historical energy features were noted within 500m, features within 250m of this site details of which are below:

- 17m NW. Gas governor (1987)
- 142m W. Electricity Sub Station (1970)
- 142m W. Electricity Sub Station (1970)
- 143m W. Electricity Sub Station (1973)
- 143m W. Electricity Sub Station (1973)
- 159m NW. Electricity Sub Station (1996)
- 159m NW. Electricity Sub Station (1993)
- 191m NE. Electricity Sub Station (1983)
- 192m NE. Electricity Sub Station (1993)
- 249m S. Electricity Sub Station (1975)

No radioactive sites, COMAH, explosives sites, Notification of Installations Handling Hazardous Substances (NIHHS) sites and planning permissions for sites involving hazardous substances registers.

2.7 Geotechnical Data

The site was recorded as being located in an area which might not be affected by past, current or future coal mining.



National databases for a number of geological hazards have been compiled by the BGS, and a summary of the hazard data pertaining to the site is presented in Table 2.1.

Hazard	Hazard Rating
Collapsible ground	Very Low
Compressible ground	Negligible
Ground dissolution	Negligible
Landslide	Very Low
Running sand	Very Low
Shrink swell clays	Moderate
BGS Recorded Mineral Sites	None recorded within 500m

Table 2.1 Summary of BGS Geological Hazards

Twenty one records of surface ground workings were recorded within 500m of the site, details of which are presented in Table 2.2.

Location	Land Use	Year of Mapping	Number of Entries
13 – 18m SW	Gravel Pit	1895 – 1908	5
17 – 24m SW	Old Gravel Pit	1942 - 1957	4
21m SW	Unspecified Pit	1868	1
206 – 208m NE	Pond	1908 - 1987	8
214 – 215m W	Pond	1908	3

Table 2.2 Summary of Surface Ground Workings

Four mineral workings records were identified within 500m of the site, summarised below:

- 48m SW. Windhover Gravel Pit. Commodity: Sand & Gravel. Type: Surface mineral working. Status: Ceased.
- 371m W. Netley Common Gravel Pit. Commodity: Sand & Gravel. Type: Surface mineral working. Status: Ceased.
- 393m N. Dumbleton's Copse Gravel Pit. Commodity: Sand & Gravel. Type: Surface mineral working. Status: Ceased.
- 446m W. Netley Common Gravel Pit. Commodity: Sand & Gravel. Type: Surface mineral working. Status: Ceased.

No natural cavities were recorded within 500m of the site.

2.8 Landfill and Ground Workings

A search of BGS recorded landfill sites, IPC registered waste sites, licensed waste management facilities, local authority recorded landfill sites, other registered landfill sites, waste transfer stations, and other waste treatment or disposal sites was undertaken as part of the desk study. Such sites may form an artificial source of ground gases, such as carbon dioxide and methane, where wastes are buried or disposed of to landfill.

Four Historical landfill (EA/NRW records) site were identified within 500m of the site boundary, details of which are below:



- 25m S. Car Boot Sale Site, Bursledon Road. Waste Licence: -. Site Reference: FEA28. Waste Type: Household. Licence Issue: -; Licence Surrender: -. Licence Holder: -. First Recorded: -; Last Recorded: -.
- 40m SW. Land adjacent to Bursledon Road, Hightown. Waste Licence: -. Site Reference: FEA20. Waste Type: Household. Licence Issue: -; Licence Surrender: -. Licence Holder: -. First Recorded: -; Last Recorded: -.
- 358m N. Kanes Hill Gravel Pit, Pinewood Park. Waste Licence: Yes. Site Reference: 9/7, FEA5. Waste Type: Inert. Licence Issue: 19/04/1977; Licence Surrender: -. Licence Holder: A J Mills. First Recorded: 01/06/1947; Last Recorded: -.
- 453m SE. Providence Hill, Bursledon. Waste Licence: -. Site Reference: FEA31, EAST 7. Waste Type: Inert. Licence Issue: -; Licence Surrender: -. Licence Holder: -. First Recorded: -; Last Recorded: -.

Seven waste exemptions were recorded within 500m of the site details of which are outlined within Table 2.3.

Location	Site	Category	Sub-Category	Description
44m W	Not supplied	Storing waste exemption	Not on a farm	Storage of waste in a secure place
44m W	Not supplied	Using waste exemption	Not on a farm	Use of waste in construction
176m E	Fir Tree Farm, Pewitt, SO31 8BL	Using waste exemption	On a farm	Use of waste in construction
228m E	Coles Yard, Botley Road, SO19 ONL	Using waste exemption	Not on a farm	Use of waste in construction
257m W	Shop Lane, SO19 0QS	Using waste exemption	Not on a farm	Use of waste in construction
367m S	Beaufort House, Hamble Lane, SO31 8BR	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
417m SE	Foreman Homes, Providence Hill, SO31 8JZ	Using waste exemption	Not on a farm	Use of waste in construction

Table 2.3 Summary of Waste Exemptions within 500m

These waste exemptions are not expected to have resulted in an adverse effect on the site.

2.9 Radon

The Groundsure data report indicated that the site lies within a lower probability radon area (where <1% of homes are estimated to be at or above the Action Level). No radon protection measures are reportedly necessary in the construction of new dwellings or extensions.

2.10 Geochemistry

Data obtained as part of the Groundsure Report provides details on the estimated soil chemistry for natural soils in the vicinity of the site. The estimated quality of natural soils beneath the subject site is presented in Table 2.4.

Determinand	Estimated Concentration (mg/kg)
Arsenic	15
Cadmium	1.8
Chromium	60 – 120
Lead	100
Nickel	15 – 30

Table 2.4 Summary of Site Geochemistry



The natural background concentrations were below respective published Soil Guideline Values, Generic Assessment Criteria and Category 4 Screening Levels for the protection of human health under a commercial land use.

However, these values are not necessarily representative of the site's soil chemistry, nor do they account for a site's historic uses, nor the presence or condition of any Made Ground soils. Furthermore, SGVs and GAC are dependent on pH and soil organic matter content. Therefore, concentrations of specific determinands and the utilised SGV/GAC cannot be determined without site specific investigation and analysis.

2.11 Historical Data

A summary of site history dating back to 1867 is presented in Table 2.5 and has been determined through examination of historical maps obtained as part of the desk study.

Date	On Site	Off Site
1867 (1:2,500)	The majority of the site comprised a field of rough pasture bound by hedgerows. The eastern portion of the site contained woodland.	The site was shown to be surrounded by an open field network and several roads. An <i>Old Gravel Pit</i> was mapped within c.50m south west of the site.
1868 (1:2,500)	Insufficient mapping.	The area north east of the site was labelled <i>Burstledon Common</i> .
1869 (1:2,500)	Insufficient mapping.	Insufficient mapping.
1868 – 1869 (1:10,560)]	The south eastern half of the site was mapped rough pasture, and the north western half as woodland, bisected by a footpath.	The surrounding area comprised a mixture of open field networks and woodland. The area north west of the site was labelled as <i>Netley Common</i> .
1895 - 1896 (1:10,560)	The site was mapped as woodland, bisected by two footpaths.	<i>Brick Fields</i> and <i>Old Gravel Pits</i> were mapped from c.800m north east and south. A <i>Gravel Pit</i> was mapped c.750m west of the site. The previously noted <i>Old Gravel Pit</i> south west of the site had been relabelled as <i>Gravel Pit</i> .
1897 (1:2,500)	No significant changes noted.	No significant changes noted.
1908 (1:10,560)	No significant changes noted.	Several residential properties were spread over the area. Beyond c.750m <i>Hedge End</i> was mapped.
1909 (1:2,500)	No significant changes noted.	The <i>Gravel Pit</i> c.750m to the west was shown to have expanded westwards.
1938 - 1942 (1:10,560)	The site was shown as rough pasture.	The <i>Gravel Pit</i> south west of the site had been relabelled as <i>Old Gravel Pit</i> . Beyond c.750m south west two <i>Silo Towers</i> were mapped. Residential development, labelled <i>Hightown</i> , had occurred west of the site from c.50m.
1957 (1:10,560)	The site was shown as an open field bisected by a single footpath.	A single <i>Works</i> was mapped c.750m north east of the site. Further residential development had occurred from c.750m north west, labelled as <i>Thorn Hill</i> . Residential development had occurred within c.50m east of the site.



Date	On Site	Off Site
1964 - 1965 (1:2,500)	No significant changes noted.	Buildings were mapped immediately north east of the site. The <i>Old Gravel Pit</i> within c.50m south west of the site was no longer mapped. C.250m north west <i>Hightown Secondary School</i> and <i>Hightown Primary & Infants School</i> were mapped.
1967 (1:10,560)	The northern section of the site had been subdivided into several plots and was partially wooded.	Further residential development had occurred from c.750m south of the site.
1970 (1:1,250)	The south eastern half of the site was labelled as a <i>Smallholding</i> , with two buildings in the south east corner of the plot.	One of the buildings immediately north east of the site (within 100m) was labelled as a <i>Filling Station</i> .
1970 - 1975 (1:2,500)	No significant changes noted.	No significant changes noted.
1974 (1:1,250)	No significant changes noted.	No significant changes noted. Incomplete mapping.
1978 (1:10,000)	No significant changes noted.	Further development had occurred from c.500m south of the site. The <i>M27</i> was mapped within c.500m east of the site, running north to south.
1979 (1:1,250)	No significant changes noted.	No significant changes noted. Incomplete mapping.
1987 (1:10,000)	The entire site was labelled as a <i>Smallholding</i> . The south eastern third of the site was an open field, with the remainder of the site as sparse woodland.	A <i>Superstore</i> was mapped c.150m south of the site.
1993 (1:1,250)	No significant changes noted.	Development was noted within c.50m north west of the site with additional buildings associated with the two schools.
1993 (1:10,000)	No significant changes noted.	No significant changes noted.
2001 (1:10,000)	No significant changes noted.	No significant changes noted.
2003 (1:1,250)	No significant changes noted.	An <i>Ambulance Station</i> was located within c.50m north of the site.
2010 (1:10,000)	No significant changes noted.	No significant changes noted.
2023 (1:10,000)	No significant changes noted.	No significant changes noted.

Table 2.5 Summary of Site History

The site was shown from the historical mapping to comprise a mixture of open fields and woodland, with the extent of each varying throughout the course of the historical mapping. From c.1987 the site was approximately one third open field and two thirds woodland.

The surrounding area initially comprised open fields and woodland. The surrounding area became more developed over time with the exception of the land south west of the site which remained largely open fields. The majority of the development was residential with some commercial structures. A filling station was mapped immediately north



east of the site.

2.12 Previous Ground Investigations

Geo-Environmental is not aware of any previous ground investigations undertaken within the boundary of the site.

2.13 Asbestos

As at all sites, consideration for the potential for asbestos to be present within the shallow soils or entrained within or below any concrete on the site should be given when designing any site investigations, therefore asbestos identification should be included within the suite of testing of contaminants on site. The absence of asbestos in soil samples analysed is not a guarantee of the absence of asbestos elsewhere on a site.

2.14 Potential Contamination

The site was shown from the historical mapping to comprise a mixture of open fields and woodland with a small number of buildings present in the south eastern corner. The wider area became developed overtime with the M27 within c.500m east of the site. A petrol filling station was identified c.50m north east of the site. A farm/large house was present to the east. Roads were mapped running along the site boundaries.

A review of the land uses covered by the National House Building Council (NHBC), Environment Agency (EA) and Chartered Institute of Environmental Health (CIEH) publication 'Guidance for the Safe Development of Housing on Land Affected by Contamination' (2008), which provides a summary of industrial profiles (1995 - 1996) published by the former Department of the Environment (DoE) (now part of the Department for Environment, Food and Rural Affairs [DEFRA]) has been undertaken. However, no profiles relating to the previous and current land use of the site have been identified.

There is the possibility that limited areas of Made Ground exist in some areas of the site associated with the buildings identified on the southern eastern corner. Made Ground or shallow soils may contain contaminants of concern, including metals, non-metal, inorganic pollutants, organic pollutants (including such as poly-aromatic hydrocarbons (PAH), petroleum hydrocarbons/oils) and asbestos (potentially introduced in any Made Ground if present).

The off-site petrol filling station (PFS) is relatively modern and therefore like to have effect environmental controls against spillage and leakages. Should fuels be leaking from the PFS, any impact to the subject site is likely to be limited by the lateral distance from the PFS and at depth.

In addition, it is possible that the surrounding land uses may have resulted in the deposition of airborne contaminants on the surface and shallow soils on site including heavy metals, organic pollutants such as polyaromatic hydrocarbons (PAH), petroleum hydrocarbons/oils, inorganic compounds.

2.15 Ground Gas Summary

The two historic landfills c.25m and c.40m south and south west of the site are potential off-site sources of ground gas. Although these landfills are recorded as receiving inert waste, putrescible waste were often historically deposited in such sites. Three gravel pits were identified within 25m south west of the site which may have been infilled with putrescible materials. A period of ground gas monitoring in the site would be required.

The desk study for the site has not identified any potential sources of ground gases on the subject site itself with the exception of the possibility of limited Made Ground associated with the buildings on site. If Made Ground was



identified and contained a significant amount of organic matter or organic contamination, it could have the potential to represent a source of ground gases/vapours.



3.0 PRELIMINARY ASSESSMENT

Based on the findings of the desk study, the following sections summarise the anticipated geotechnical and environmental factors likely to impact the site.

3.1 Geotechnical Risk Assessment

3.1.1 Potential Geotechnical Issues

The following factors that might impact the geotechnical condition of the site were identified as part of the desk study.

Hazards identified as being potentially present on site could have implications for foundation design and construction. A summary of commonly occurring geotechnical hazards is given in the following table:

Geotechnical Hazard	Probability	Engineering Implications
Lateral changes in ground conditions	Likely	There are likely to be variations in the composition of the River Terrace Deposits and the Wittering Formation which could have implications for the foundation design.
Shrinkable soils	Likely	The River Terrace Deposits and Wittering Formation are likely to contain shrinkable horizons and foundations could require deepening within the zone of moisture demand of trees (current, proposed or recently felled).
Significant depths of Made Ground	Low	The site has only had limited development in the form of buildings associated with the smallholding.
Aggressive chemical ground conditions (sulphates)	Low	The possible presence of aggressive chemical ground conditions within the underlying geology may affect foundation design and construction.
Shallow Groundwater	Likely	There is the potential for shallow groundwater within both the River Terrace Deposits and Wittering Formation.
Viability of Soakaways	Possible	Soakaways may be feasible within the River Terrace Deposits and Wittering Formation if granular.
Potential for slope stability issues	Unlikely	The site was relatively flat and level.

Table 3.1 Possible Geotechnical Hazards

3.2 Preliminary Environmental Conceptual Site Model & Risk Assessment

3.2.1 Methodology

A Preliminary Risk Assessment (PRA) and Conceptual Site Model (CSM) has been prepared in accordance with Land Contamination Risk Management (LCRM) based on information obtained as part of the desk study. Possible risks associated with potential sources of contamination and sensitive receptors identified have been assessed following a source-pathway-receptor (SPR) approach in accordance with current UK protocols. The Conceptual Site Model is shown in Figure 3.

A risk may only exist where a plausible SPR linkage is present, and where the quantity or concentration of a contaminant is sufficient so as to cause harm. Under the statutory definition, "Contamination" may only strictly exist



where contaminants pose a risk of harm to a receptor. Risk may be defined as a function of the likelihood and severity of any adverse effects arising from contamination. The risk classification has been assessed in accordance with CIRIA C552 (Rudland et al., 2001). A summary of how the risks is derived and their definitions are presented in Tables 3.2 & 3.3 below.



		Consequence			
		Severe	Medium	Mild	Minor
Probability	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 3.2 Risk Ratings Matrix

Risk Rating	Definitions
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. This 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 already undertaken) is required and remediation works may be necessary in the short term and are likely over the longer term.
Moderate risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either 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.
Moderate to low risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is unlikely that any such harm would be severe, or if any harm were to occur it is probable that the harm would be relatively mild.
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 low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Table 3.3 Risk Ratings Definition



3.2.2 Summary of Plausible Sources

Possible sources of contamination identified or discounted as part of the desk study are summarised in Table 3.4.

Source	Description	Comments
Shallow Soils and Made Ground (if present)	General chemical quality of the near surface soils.	Possible elevated concentrations of metals, organic (including PAH and TPH), inorganic contaminants, pesticides and asbestos.
Ground gases/vapours	Possible presence of Made Ground beneath the site, (only considered a viable source of ground gas if significant proportions of organic material are present). Historic landfills to the south of the site.	Methane, carbon dioxide, depleted oxygen, trace gases.
Naturally occurring aggressive ground conditions	Naturally occurring compounds in the ground which could damage buried concrete.	Possible elevated sulphate concentrations.

Table 3.4 Possible Sources of Contamination

3.2.3 Summary of Plausible Pathways

The plausible pathways are summarised in Table 3.5. These pathways are based on the proposed commercial end use.

Pathway	Description
Direct Contact	Ingestion of soil particles, inhalation of soil derived dust (including tracked back dust), dermal contact.
Inhalation	Inhalation of soil dust both inside and outside of buildings. Inhalation of ground gas/vapours within buildings.
Vertical & Lateral Migration	Contaminant movement both vertically through leaching/gravity and horizontally along preferential pathways, e.g. services trenches, more permeable bedded strata or within groundwater.
Shallow Groundwater	Shallow groundwater or perched water may be present within superficial deposits and bedrock deposits and, if encountered, could result in the vertical and lateral migration of contaminants.
Chemical Attack	Attack of buried plastics and concrete by aggressive ground conditions.
Flooding	Discounted – the site was indicated to be located outside of any current indicative fluvial flood plain.

Table 3.5 Possible Contaminant Pathways



3.2.4 Summary of Plausible Receptors

Potential receptors associated with the site and its development, identified or otherwise discounted, are summarised in Table 3.6.

Receptor	Description	Comments
End Users	Future users of the proposed development.	The development will include a commercial, open space and associated infrastructure.
Adjacent Land Users	Sensitive land uses identified within the immediate vicinity.	Adjacent land uses are a mixture of residential and open fields.
Built Environment	Buried concrete for foundations and plastics for potable water supply pipes may be laid in contact with contaminated soils.	Aggressive ground conditions and limited areas/depths of Made Ground may be present beneath the site.
Groundwater	Controlled Waters contained within the aquifer(s) beneath the site.	The site lies upon Secondary Undifferentiated strata. The site was located outside of any SPZ.
Surface Water	Controlled Waters within lakes, rivers, ponds, etc., or coastal waters.	The nearest surface water features identified comprised a stream/ditch 208m east of the site.
Ecological Receptors	Sensitive areas of ecological significance.	No sensitive ecological receptors identified – this is not considered further in the assessment.

Table 3.6 Possible Receptors of Contamination

Site workers involved in the preparation and construction of the development have not been considered in this assessment as the principal contractor is duty bound under the current CDM Regulations to undertake their own risk assessments with respect to their employees.

Whilst the above sources and receptors have been identified, Table 3.7 summarises the identified plausible pollution linkages and a qualitative assessment of the risks based on the desk study research.



Desk Study

Potential Source/Media	Potential Receptors	Possible Pathways	Probability	Consequence	Risk & Justification
Contaminants of Concern (Shallow Soils and Made Ground)	End Users	Direct contact and inhalation of soil derived dust	Likely	Minor	Low Future site may to come into direct contact with soils where soft landscaping is present. Where soft landscaping is proposed it will be completed with uncontaminated soils in the near surface root zone which will reduce the risk.
	Adjacent Land Users	Direct contact and inhalation of soil derived dust	Unlikely	Minor	Very Low Adjacent site users are unlikely to come into contact with the soils at the site.
	Soft Landscaping	Root uptake	Unlikely	Mild	Very Low Soft landscaping is proposed on the site and thus, root uptake is possible. However, landscaping would be completed with uncontaminated soils in the near surface root zone. Furthermore, no clear evidence of harm to existing vegetation was observed. Where soft landscaping is proposed it will be completed with uncontaminated soils in the near surface root zone.
	Water Supply Pipes	Direct contact	Low Likelihood	Minor	Very Low Water supply pipes are likely to come into contact with impacted soils depending upon depth of installation and extent of soil impact.
	Buildings and Infrastructure	Direct contact	Likely	Minor	Low Foundations and utilities will be placed within potentially aggressive soils (e.g. sulphate). However, the consequence is anticipated to be minor.
	Groundwater	Vertical Migration	Unlikely	Minor	Very Low The site overlies secondary undifferentiated strata. However, significant potentially mobile contamination is not anticipated.
	Surface Water	Lateral Migration	Unlikely	Minor	Very Low No surface water features are present on site. However, significant potentially mobile contamination is not anticipated.



Potential Source/Media	Potential Receptors	Possible Pathways	Probability	Consequence	Risk & Justification
Ground gases and vapours from any Made Ground and historic landfills to the south	End Users	Inhalation	Likely	Medium	Moderate Future use may inhale potential ground gases produced by this source. Extensive or deep Made Ground on site sufficient for significant ground gas generation is not anticipated. However, the off-site historic landfills may be a source of ground gases to the site.
	Buildings and infrastructure	Gas accumulation and potential explosion of flammable gases	Unlikely	Minor	Very Low Extensive putrescible material sufficient for significant methane production is not anticipated at the site. Significant methane migration from the off-site landfills is also not anticipated.
Naturally occurring aggressive ground conditions	End users	Direct contact and inhalation / ingestion of soil derived dust	Unlikely	Minor	Very Low No naturally occurring potential sources which could harm human health have been identified. The consequence is likely to be minor.
	Adjacent land users	Direct contact	Unlikely	Minor	Very Low No potential sources which could harm human health have been identified. The consequence is likely to be minor.
	Water supply pipes	Direct contact	Unlikely	Minor	Very Low No potential sources which could harm human health have been identified. The consequence is likely to be minor.
	Buildings and Infrastructure	Direct contact	Likely	Minor	Low Foundations will be placed within soils which may be an aggressive environment for concrete. However, the consequence is anticipated to be minor.

Table 3.7 Plausible Pollution Linkages



3.3 Preliminary Risk Assessment Summary

The Preliminary Risk Assessment (PRA) and Conceptual Site Model (CSM) developed from the information gathered as part of the desk study process have identified several plausible pollutant linkages that exist in relation to the proposed development of the site and the preliminary risk rating for the majority of pollution linkages have been classified as low or very low. A moderate risk rating has been assigned in relation to risks relating to ground gases from the off-site historic landfills to the south of the site.

The potential pollutant linkages established within this desk study are not considered to prevent development on the subject site but could require remediation or the employment of risk mitigation measures to reduce the risks to key receptors.

In order to progress this assessment in line with the National Planning Policy Framework, to provide further characterisation of the site and refinement of the PRA and CSM, it is recommended that intrusive investigation and associated testing is undertaken to confirm the findings of the desk study report and to provide a robust risk assessment for the site and proposed development. As such, it is recommended that geochemical and geotechnical investigation be carried out on the site to include analysis of soil samples for the range of potential contaminants identified within the desk study.

3.4 Preliminary Geotechnical Assessment Summary

With reference to British Geological Survey (BGS) mapping, the underlying geology is anticipated to comprise River Terrace Deposits overlying the Wittering Formation. Given the previous agricultural land use and surrounding developed land, there remains the possibility that there may be areas of reworked, disturbed or Made Ground across the site.

It is possible that conventional strip or pad foundations could be suitable for the proposed development where natural ground is encountered at ground level. However, where foundations are required in any areas of Made Ground or infilled ground, which may be present to depth beneath areas of the site, a deeper or piled foundation solution may be required. Shallow groundwater could also impact the viability of conventional foundations. The development should also take into account the presence of trees and/or desiccation at the site if shrinkable soils are present. Localised deepening of foundations may be required in the vicinity of trees and piled foundations may be required in proximity to trees (subject to tree type and ground conditions).

In line with a SuDS approach, storm water should be discharged to the ground wherever possible. Potential for this should be confirmed by soakage testing. In addition, a period of winter groundwater monitoring is often required by Lead Local Flood Authorities.



4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

The desk study has shown the subject site itself to historically comprise a mixture of woodland and open fields. There is potential for Made Ground to be present in some limited areas of the site potentially associated with adjacent development land and infilled ponds.

The proposed development is understood to comprise commercial development with access roads, open space and associated infrastructure.

A maximum risk rating of moderate/low has been assigned in relation to ground gases. Very low or low risk ratings have been classified related to soil contamination and naturally occurring aggressive ground conditions at the site. Further assessment is required to progress characterisation of the contamination status and ground gas regime of the site to inform an update of the conceptual site model and allow a robust assessment of the risk to human health and the environment.

It is possible that conventional foundations would be suitable for parts of the proposed development, although any design should account for the potential presence of shrinkable soils across the site, as well as the presence of trees and hedgerows on site and/or desiccation of the shallow soils. Disposal of stormwater to soakaways may be potentially possible in permeable soils subject to formal soakage testing.

4.2 Recommendations

At this stage and based on the findings of the desk study and preliminary risk assessment, the following scope of works is recommended for the intrusive investigation on the site.

- Intrusive investigation works should be carried out in order to clarify the geotechnical and geo-environmental issues pertaining to redevelopment of the site.
- Soil sampling and analysis should be undertaken to inform subsequent geotechnical and geo-environmental risk assessment.
- Laboratory analysis, on soil samples recovered from the exploratory holes for a range of geotechnical parameters to support foundation design.
- Laboratory analysis on soil samples recovered from the exploratory holes, for an analytical suite to include the potential contaminants identified within the desk study and encountered during any intrusive investigation. The suite should include commonly occurring metals, non-metals, asbestos, TPH, and PAH.
- Soakage testing to inform the emerging drainage strategy.
- Ground gas and groundwater monitoring of the site to determine the ground gas regime.
- Groundwater monitoring over a winter period may be required to inform the emerging drainage strategy for the site. A winter period is typically defined as early October to the end of the following March or early April.

It may be necessary to undertake remediation/risk mitigation measures on this site to break pollutant linkages and thus protect key receptors such as human health, controlled waters, built environment, soft landscaping and the like. The requirement and extent of any such remediation cannot be determined until such time as an intrusive investigation and associated testing has been completed.



FIGURES



Project Title:	West End Road
Location :	Bursledon, Hampshire
Project No. :	GE22135
Client :	

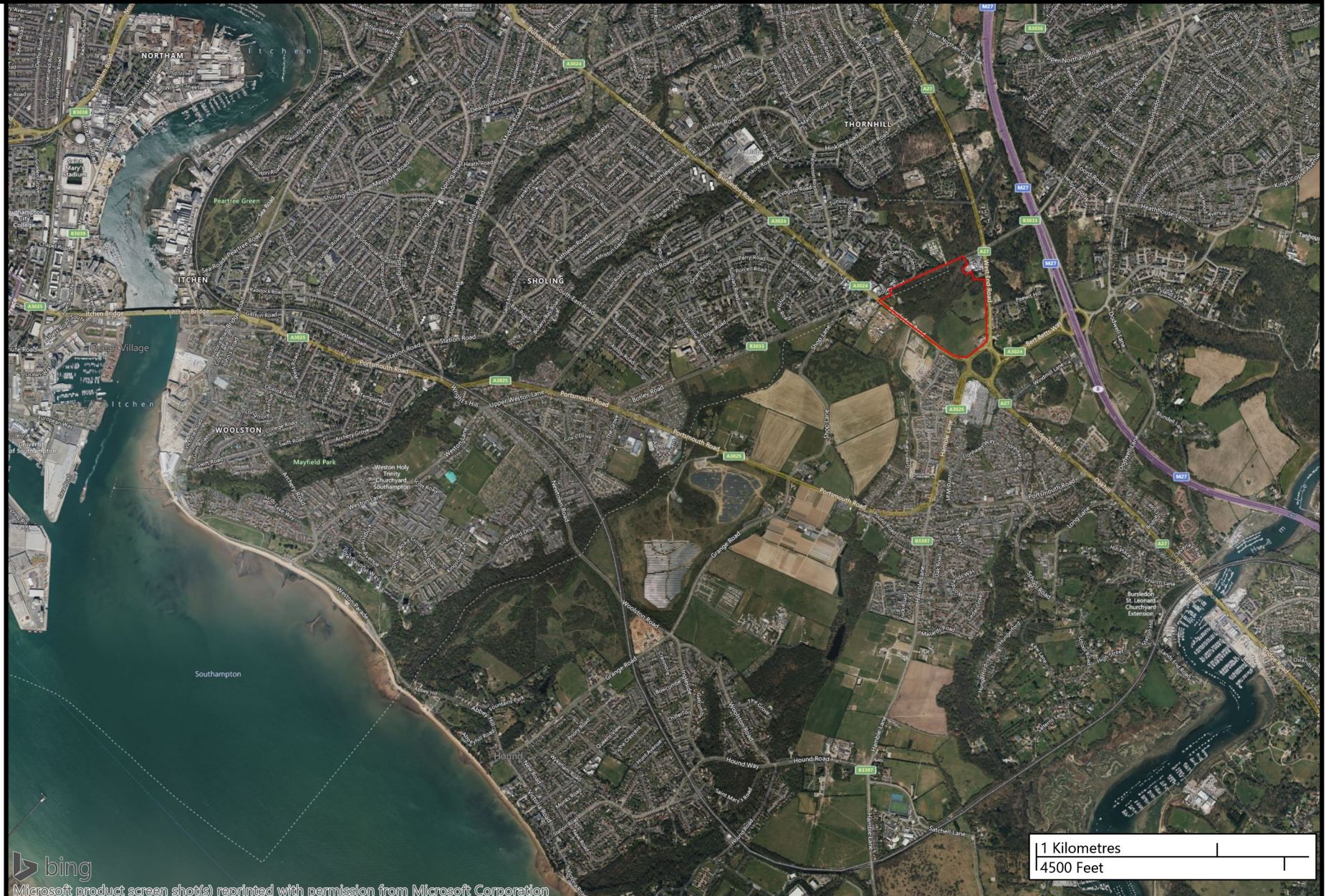
Title : Figure 1 - Site Location Plan
Scale: 1:30000
Engineer: JT



Geo-Environmental

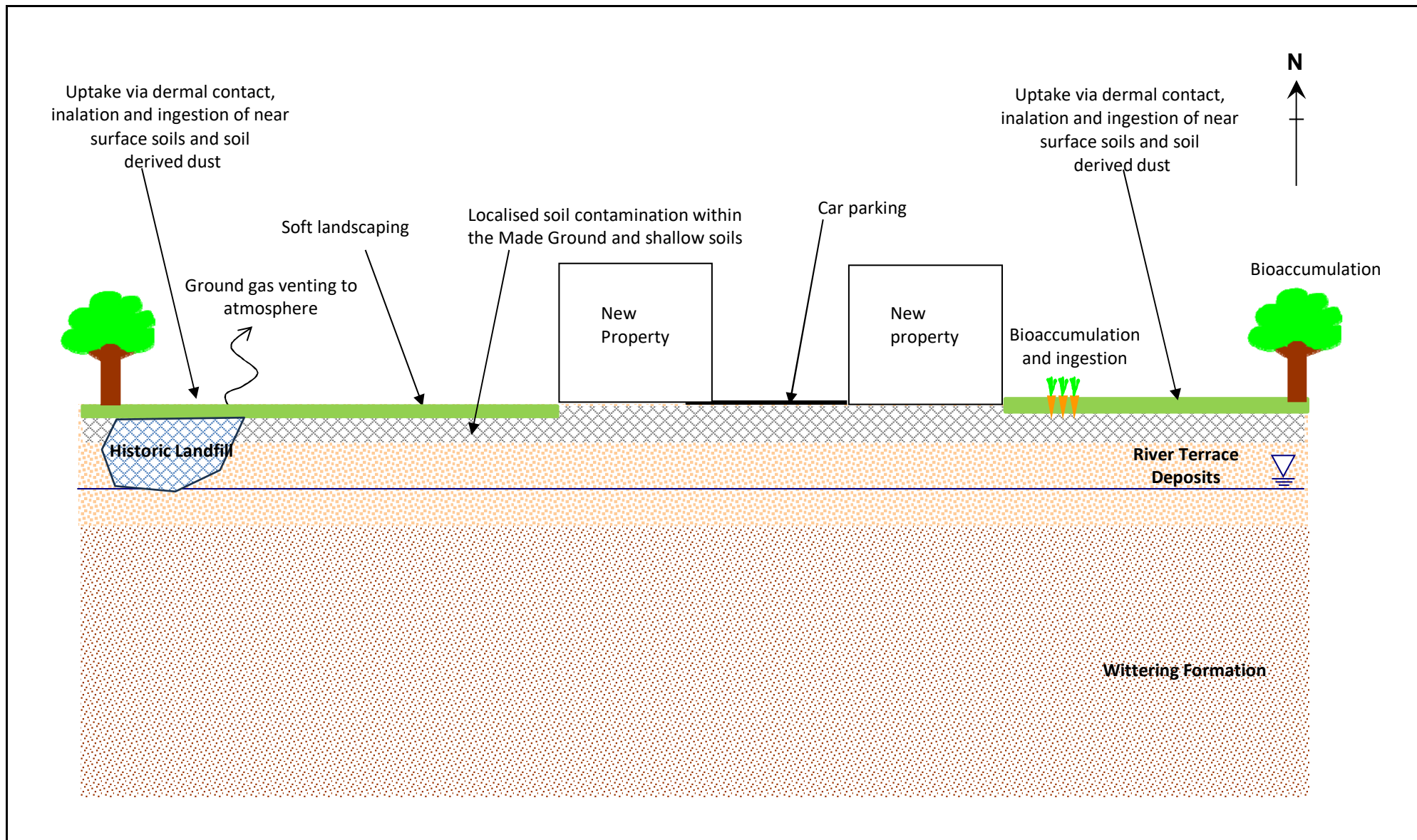
Legend Key

 Project Bounds - Project Bounds





Project:	West End Road, Bursledon, Hampshire, SO31 8BN			Title	Proposed Development Plan		
Client:	Wates Developments			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net		 Geo-Environmental	
Ref No:	GE22135	Revision:	1				
Drawn:	WH	Date:	04/12/2023				
Figure:	2	Scale:	n/a				



Project:	West End Road, Bursledon, Hampshire, SO31 8BN			Title	Conceptual Site Model (Proposed Site Use)		
Client:	Wates Developments			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental		
Ref No:	GE22135	Revision:	1.0				
Drawn:	WH	Date:	30/11/2023				
Figure:	3	Scale:	Not To Scale				



APPENDIX A

Desk Study Information



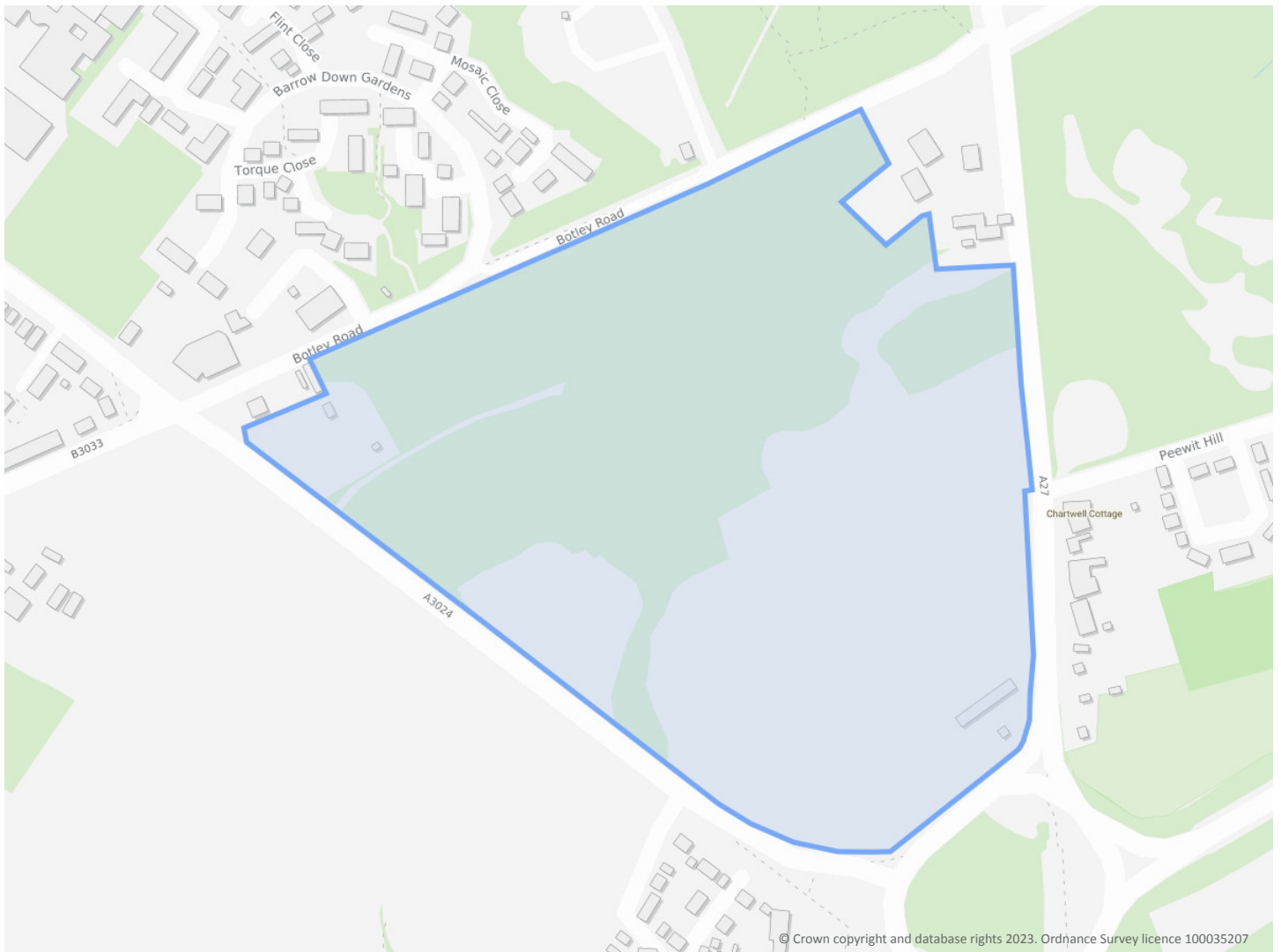
WEST END ROAD, BURSLEDON, SO31 8BN

Order Details

Date: 15/11/2023
Your ref: 7025
Our Ref: GS-N2L-NRT-KUU-EEB

Site Details

Location: 447977 111290
Area: 19.45 ha
Authority: [Eastleigh Borough Council](#) ↗,
[Southampton City Council](#) ↗



Summary of findings

[p. 2 >](#)

Aerial image

[p. 9 >](#)

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	0	9	0	28	-
16 >	1.2 >	Historical tanks >	0	0	1	0	-
16 >	1.3 >	Historical energy features >	0	1	4	12	-
17 >	1.4 >	Historical petrol stations >	0	2	0	0	-
18 >	1.5 >	Historical garages >	0	3	0	3	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
19 >	2.1 >	Historical industrial land uses >	0	12	0	39	-
21 >	2.2 >	Historical tanks >	0	0	1	0	-
22 >	2.3 >	Historical energy features >	0	1	9	27	-
23 >	2.4 >	Historical petrol stations >	0	2	0	0	-
24 >	2.5 >	Historical garages >	0	5	0	4	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
25	3.1	Active or recent landfill	0	0	0	0	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
26	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
26 >	3.4 >	Historical landfill (EA/NRW records) >	0	2	0	2	-
27	3.5	Historical waste sites	0	0	0	0	-
27	3.6	Licensed waste sites	0	0	0	0	-
27 >	3.7 >	Waste exemptions >	0	2	2	3	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
29 >	4.1 >	Recent industrial land uses >	0	1	9	-	-
30 >	4.2 >	Current or recent petrol stations >	0	0	1	2	-
31	4.3	Electricity cables	0	0	0	0	-
31	4.4	Gas pipelines	0	0	0	0	-
31	4.5	Sites determined as Contaminated Land	0	0	0	0	-



31	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
31	4.7	Regulated explosive sites	0	0	0	0	-
32	4.8	Hazardous substance storage/usage	0	0	0	0	-
32	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
32	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
32 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	2	-
33	4.12	Radioactive Substance Authorisations	0	0	0	0	-
33 >	4.13 >	Licensed Discharges to controlled waters >	0	0	0	3	-
33	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
34	4.15	Pollutant release to public sewer	0	0	0	0	-
34	4.16	List 1 Dangerous Substances	0	0	0	0	-
34	4.17	List 2 Dangerous Substances	0	0	0	0	-
34	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
34	4.19	Pollution inventory substances	0	0	0	0	-
35	4.20	Pollution inventory waste transfers	0	0	0	0	-
35	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
36 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
38 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
39 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
41	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
41	5.5	Groundwater vulnerability- local information	None (within 0m)				
42 >	5.6 >	Groundwater abstractions >	0	0	0	0	1
43 >	5.7 >	Surface water abstractions >	0	0	0	0	4
44	5.8	Potable abstractions	0	0	0	0	0
44	5.9	Source Protection Zones	0	0	0	0	-
45	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
46 >	6.1 >	Water Network (OS MasterMap) >	0	0	3	-	-



47 >	6.2 >	Surface water features >	0	0	2	-	-
47 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
48	6.4	WFD Surface water bodies	0	0	0	-	-
48 >	6.5 >	WFD Groundwater bodies >	2	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
49	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
49	7.2	Historical Flood Events	0	0	0	-	-
49	7.3	Flood Defences	0	0	0	-	-
50	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
50	7.5	Flood Storage Areas	0	0	0	-	-
51	7.6	Flood Zone 2	None (within 50m)				
51	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
52 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
54 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
55 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
56 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	1
56 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	1
57 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	4
58	10.5	National Nature Reserves (NNR)	0	0	0	0	0
58 >	10.6 >	Local Nature Reserves (LNR) >	0	1	0	0	6
59 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	11
59	10.8	Biosphere Reserves	0	0	0	0	0
60	10.9	Forest Parks	0	0	0	0	0
60	10.10	Marine Conservation Zones	0	0	0	0	0
60	10.11	Green Belt	0	0	0	0	0
60	10.12	Proposed Ramsar sites	0	0	0	0	0



60	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
61	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
61	10.15	Nitrate Sensitive Areas	0	0	0	0	0
61 >	10.16 >	Nitrate Vulnerable Zones >	1	0	0	0	0
62 >	10.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
64 >	10.18 >	SSSI Units >	0	0	0	0	3
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
66	11.1	World Heritage Sites	0	0	0	-	-
66	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
66	11.3	National Parks	0	0	0	-	-
66	11.4	Listed Buildings	0	0	0	-	-
67	11.5	Conservation Areas	0	0	0	-	-
67	11.6	Scheduled Ancient Monuments	0	0	0	-	-
67	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
69	12.2	Open Access Land	0	0	0	-	-
69 >	12.3 >	Tree Felling Licences >	0	1	0	-	-
70 >	12.4 >	Environmental Stewardship Schemes >	0	1	0	-	-
70	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
71 >	13.1 >	Priority Habitat Inventory >	8	10	25	-	-
73 >	13.2 >	Habitat Networks >	5	1	4	-	-
74	13.3	Open Mosaic Habitat	0	0	0	-	-
74	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	14.1 >	10k Availability >	Identified (within 500m)				
76 >	14.2 >	Artificial and made ground (10k) >	0	0	2	0	-
77 >	14.3 >	Superficial geology (10k) >	2	0	0	4	-

78	14.4	Landslip (10k)	0	0	0	0	-
79 >	14.5 >	Bedrock geology (10k) >	1	0	1	0	-
80	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
81 >	15.1 >	50k Availability >	Identified (within 500m)				
82 >	15.2 >	Artificial and made ground (50k) >	0	0	2	0	-
83	15.3	Artificial ground permeability (50k)	0	0	-	-	-
84 >	15.4 >	Superficial geology (50k) >	2	0	0	4	-
85 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
85	15.6	Landslip (50k)	0	0	0	0	-
85	15.7	Landslip permeability (50k)	None (within 50m)				
86 >	15.8 >	Bedrock geology (50k) >	1	0	1	0	-
87 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
87	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
88 >	16.1 >	BGS Boreholes >	1	4	35	-	-
Page	Section	Natural ground subsidence >					
91 >	17.1 >	Shrink swell clays >	Moderate (within 50m)				
92 >	17.2 >	Running sands >	Very low (within 50m)				
93 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
94 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
95 >	17.5 >	Landslides >	Very low (within 50m)				
96 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
98 >	18.1 >	BritPits >	0	1	0	3	-
99 >	18.2 >	Surface ground workings >	0	10	11	-	-
100	18.3	Underground workings	0	0	0	0	0
101	18.4	Underground mining extents	0	0	0	0	-
101	18.5	Historical Mineral Planning Areas	0	0	0	0	-



101	18.6	Non-coal mining	0	0	0	0	0
101	18.7	JPB mining areas	None (within 0m)				
101	18.8	The Coal Authority non-coal mining	0	0	0	0	-
102	18.9	Researched mining	0	0	0	0	-
102	18.10	Mining record office plans	0	0	0	0	-
102	18.11	BGS mine plans	0	0	0	0	-
102	18.12	Coal mining	None (within 0m)				
103	18.13	Brine areas	None (within 0m)				
103	18.14	Gypsum areas	None (within 0m)				
103	18.15	Tin mining	None (within 0m)				
103	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
104	19.1	Natural cavities	0	0	0	0	-
104	19.2	Mining cavities	0	0	0	0	0
104	19.3	Reported recent incidents	0	0	0	0	-
104	19.4	Historical incidents	0	0	0	0	-
105	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
106 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
108 >	21.1 >	BGS Estimated Background Soil Chemistry >	6	9	-	-	-
109	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
109	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
110	22.1	Underground railways (London)	0	0	0	-	-
110	22.2	Underground railways (Non-London)	0	0	0	-	-
110	22.3	Railway tunnels	0	0	0	-	-
110	22.4	Historical railway and tunnel features	0	0	0	-	-
110	22.5	Royal Mail tunnels	0	0	0	-	-



111	22.6	Historical railways	0	0	0	-	-
111	22.7	Railways	0	0	0	-	-
111	22.8	Crossrail 1	0	0	0	0	-
111	22.9	Crossrail 2	0	0	0	0	-
111	22.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 05/04/2020

Site Area: 19.45ha



Recent site history - 2017 aerial photograph



Capture Date: 21/06/2017

Site Area: 19.45ha



Recent site history - 2013 aerial photograph



Capture Date: 04/06/2013

Site Area: 19.45ha



Recent site history - 2005 aerial photograph



Capture Date: 18/05/2005

Site Area: 19.45ha



Recent site history - 1999 aerial photograph

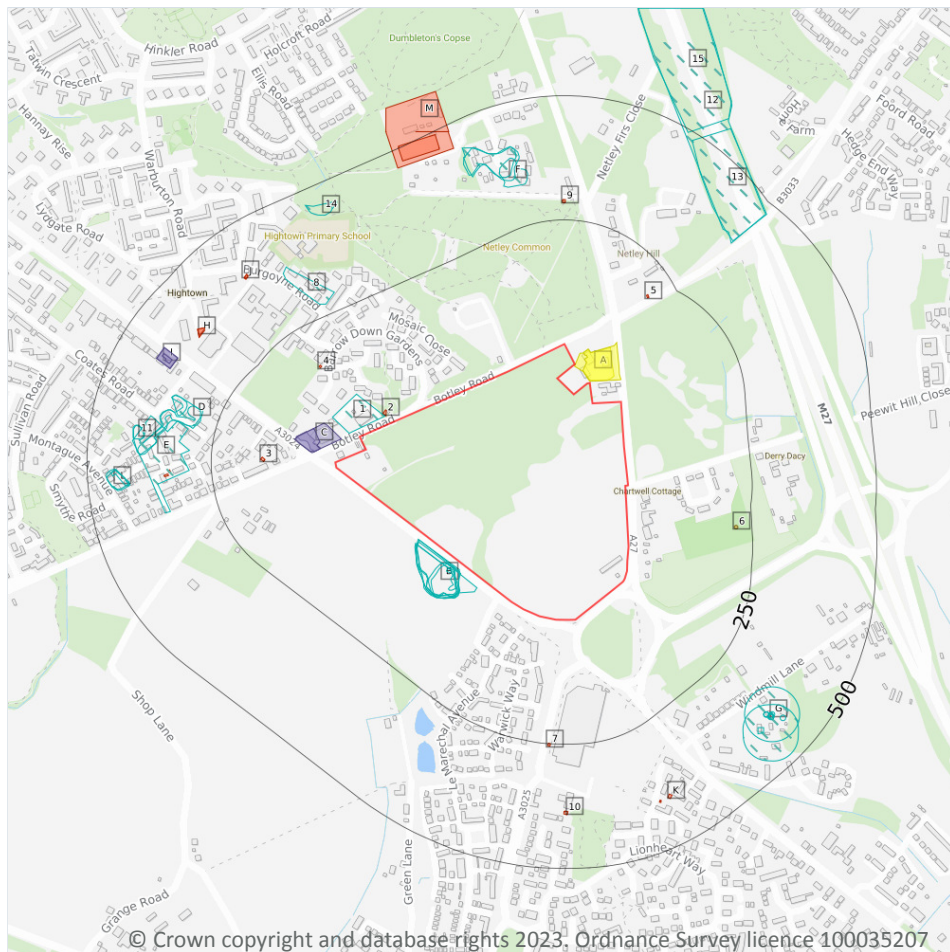


Capture Date: 30/04/1999

Site Area: 19.45ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

1.1 Historical industrial land uses

Records within 500m

37

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14](#) >

ID	Location	Land use	Dates present	Group ID
B	13m SW	Gravel Pit	1908	1915505



ID	Location	Land use	Dates present	Group ID
B	15m SW	Gravel Pit	1908	1932269
1	16m W	Ambulance Station	1987 - 1993	1893039
B	16m SW	Gravel Pit	1898	1956850
B	17m SW	Old Gravel Pit	1942	1959788
B	18m SW	Gravel Pit	1895	1911428
B	21m SW	Unspecified Pit	1868	1876823
B	23m SW	Old Gravel Pit	1957	1926977
B	24m SW	Old Gravel Pit	1957	1916797
8	272m NW	Unspecified Heap	1967	1869013
D	284m W	Unspecified Ground Workings	1908 - 1942	1965853
D	286m W	Old Gravel Pits	1908	1894597
E	295m W	Unspecified Works	1967	1860097
D	319m W	Unspecified Heap	1908	1869012
F	332m N	Gravel Pit	1967	1936095
F	346m N	Gravel Pit	1942 - 1957	1963464
G	346m SE	Windmill	1895	1957774
F	356m N	Gravel Pit	1957	1901407
G	367m SE	Corn Windmill	1868	1864767
G	388m SE	Unspecified Tank	1967	1857231
G	388m SE	Disused Windmill	1987 - 1993	1893744
G	388m SE	Disused Windmill	1977	1940120
11	388m W	Old Gravel Pits	1908	1949614
12	389m NE	Cuttings	1977	1952498
13	395m NE	Cuttings	1987 - 1993	1931377
G	395m SE	Windmill	1957	1917381
G	396m SE	Unspecified Tank	1908 - 1942	1904080
G	397m SE	Unspecified Windmill	1898	1909984
G	397m SE	Old Windmill	1908	1921110



ID	Location	Land use	Dates present	Group ID
G	398m SE	Unspecified Windmill	1957	1900720
G	400m SE	Old Windmill	1908	1875004
L	416m W	Old Gravel Pit	1908	1958640
L	416m W	Unspecified Ground Workings	1942	1851466
L	417m W	Old Gravel Pit	1908	1922716
G	417m SE	Unspecified Tank	1942	1857230
14	436m NW	Unspecified Pit	1868	1876822
15	494m NE	Cuttings	1987 - 1993	1914041

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

1

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
6	214m E	Unspecified Tank	1965	302875

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

17

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)



ID	Location	Land use	Dates present	Group ID
2	17m NW	Gas Governor	1987	191797
3	142m W	Electricity Substation	1970 - 1997	205631
4	159m NW	Electricity Substation	1993 - 1996	210364
5	191m NE	Electricity Substation	1983 - 1993	200933
7	249m S	Electricity Substation	1975	187951
9	284m N	Electricity Substation	1970 - 1996	199126
E	332m W	Electricity Substation	1987	188267
E	337m W	Electricity Substation	1997	188269
H	372m NW	Electricity Substation	1970 - 1989	197832
H	374m NW	Electricity Substation	1993 - 1996	206730
10	385m S	Electricity Substation	1985 - 1993	209438
J	391m NW	Electricity Substation	1989 - 1996	200573
J	392m NW	Electricity Substation	1970	196696
K	398m SE	Electricity Substation	1987	187952
K	402m SE	Electricity Substation	1988 - 1993	202775
M	452m N	Electricity Substation	1990 - 1995	200926
M	463m N	Electricity Substation	1970 - 1996	202235

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

2

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
A	1m NE	Filling Station	1970	3452



ID	Location	Land use	Dates present	Group ID
A	3m NE	Filling Station	1970	3392

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	6
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
C	37m W	Garage	1965 - 1970	63335
C	41m W	Garage	1970	61825
C	42m W	Garage	1987 - 1997	64785
I	380m W	Garage	1989	62602
I	381m W	Garage	1970	65317
I	388m W	Garage	1965	61100

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

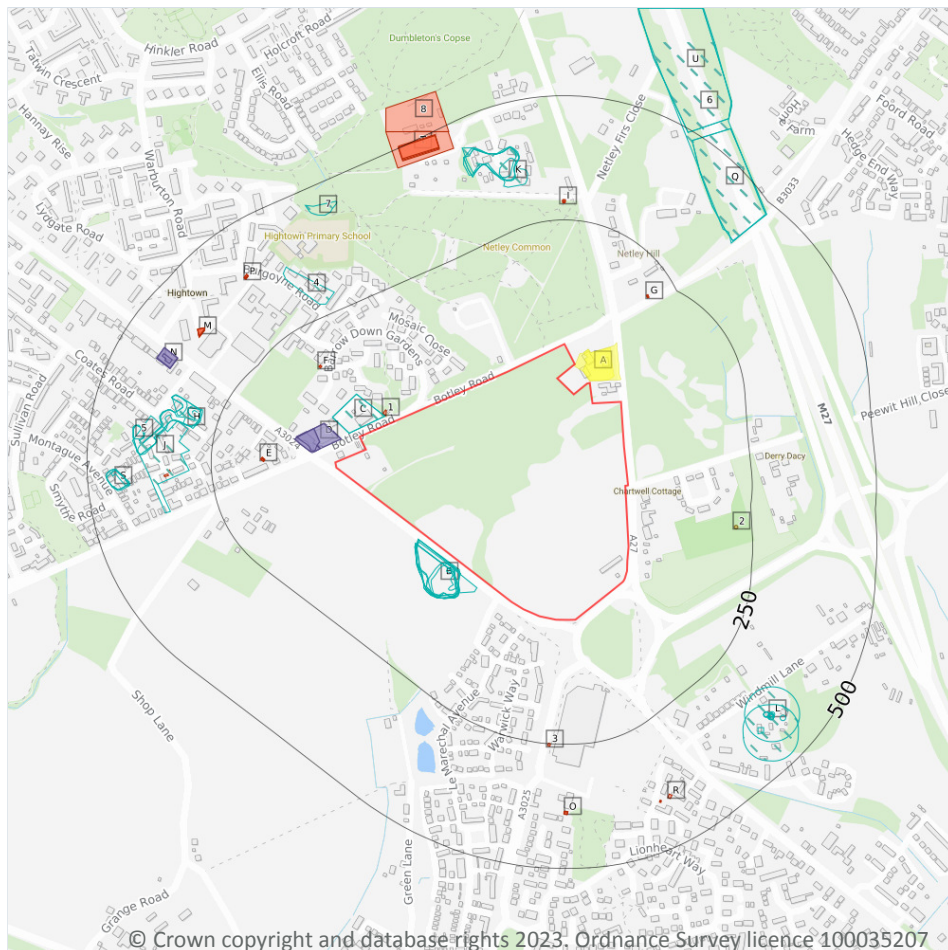
Records within 500m	0
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Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

2.1 Historical industrial land uses

Records within 500m

51

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 19](#) >

ID	Location	Land Use	Date	Group ID
B	13m SW	Gravel Pit	1908	1915505
B	15m SW	Gravel Pit	1908	1932269
B	15m SW	Gravel Pit	1908	1932269



ID	Location	Land Use	Date	Group ID
C	16m W	Ambulance Station	1993	1893039
C	16m W	Ambulance Station	1987	1893039
B	16m SW	Gravel Pit	1898	1956850
B	17m SW	Old Gravel Pit	1942	1959788
B	18m SW	Gravel Pit	1895	1911428
B	21m SW	Unspecified Pit	1868	1876823
B	23m SW	Old Gravel Pit	1957	1926977
B	24m SW	Old Gravel Pit	1957	1916797
B	24m SW	Old Gravel Pit	1957	1916797
4	272m NW	Unspecified Heap	1967	1869013
H	284m W	Unspecified Ground Workings	1942	1965853
H	285m W	Unspecified Ground Workings	1908	1965853
H	286m W	Old Gravel Pits	1908	1894597
H	286m W	Old Gravel Pits	1908	1894597
J	295m W	Unspecified Works	1967	1860097
H	319m W	Unspecified Heap	1908	1869012
K	332m N	Gravel Pit	1967	1936095
K	346m N	Gravel Pit	1957	1963464
K	346m N	Gravel Pit	1957	1963464
L	346m SE	Windmill	1895	1957774
K	348m N	Gravel Pit	1942	1963464
K	356m N	Gravel Pit	1957	1901407
L	367m SE	Corn Windmill	1868	1864767
L	388m SE	Disused Windmill	1993	1893744
L	388m SE	Unspecified Tank	1967	1857231
L	388m SE	Disused Windmill	1987	1893744
L	388m SE	Disused Windmill	1977	1940120
5	388m W	Old Gravel Pits	1908	1949614



ID	Location	Land Use	Date	Group ID
6	389m NE	Cuttings	1977	1952498
Q	395m NE	Cuttings	1993	1931377
Q	395m NE	Cuttings	1987	1931377
L	395m SE	Windmill	1957	1917381
L	396m SE	Unspecified Tank	1942	1904080
L	397m SE	Unspecified Windmill	1898	1909984
L	397m SE	Old Windmill	1908	1921110
L	397m SE	Old Windmill	1908	1921110
L	398m SE	Unspecified Tank	1908	1904080
L	398m SE	Unspecified Windmill	1957	1900720
L	398m SE	Unspecified Windmill	1957	1900720
L	400m SE	Old Windmill	1908	1875004
S	416m W	Old Gravel Pit	1908	1958640
S	416m W	Unspecified Ground Workings	1942	1851466
S	417m W	Old Gravel Pit	1908	1922716
S	417m W	Old Gravel Pit	1908	1922716
L	417m SE	Unspecified Tank	1942	1857230
7	436m NW	Unspecified Pit	1868	1876822
U	494m NE	Cuttings	1993	1914041
U	494m NE	Cuttings	1987	1914041

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

1

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 19 >](#)



ID	Location	Land Use	Date	Group ID
2	214m E	Unspecified Tank	1965	302875

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	37
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 19 >](#)

ID	Location	Land Use	Date	Group ID
1	17m NW	Gas Governor	1987	191797
E	142m W	Electricity Substation	1970	205631
E	142m W	Electricity Substation	1970	205631
E	143m W	Electricity Substation	1997	205631
E	143m W	Electricity Substation	1987	205631
F	159m NW	Electricity Substation	1996	210364
F	159m NW	Electricity Substation	1993	210364
G	191m NE	Electricity Substation	1983	200933
G	192m NE	Electricity Substation	1993	200933
3	249m S	Electricity Substation	1975	187951
I	284m N	Electricity Substation	1996	199126
I	285m N	Electricity Substation	1990	199126
I	285m N	Electricity Substation	1970	199126
I	286m N	Electricity Substation	1970	199126
J	332m W	Electricity Substation	1987	188267
J	337m W	Electricity Substation	1997	188269
M	372m NW	Electricity Substation	1989	197832
M	372m NW	Electricity Substation	1970	197832
M	374m NW	Electricity Substation	1970	197832



ID	Location	Land Use	Date	Group ID
M	374m NW	Electricity Substation	1996	206730
M	374m NW	Electricity Substation	1993	206730
O	385m S	Electricity Substation	1985	209438
O	386m S	Electricity Substation	1988	209438
O	386m S	Electricity Substation	1993	209438
P	391m NW	Electricity Substation	1989	200573
P	392m NW	Electricity Substation	1970	196696
P	392m NW	Electricity Substation	1996	200573
P	392m NW	Electricity Substation	1993	200573
P	393m NW	Electricity Substation	1970	196696
R	398m SE	Electricity Substation	1987	187952
R	402m SE	Electricity Substation	1993	202775
R	402m SE	Electricity Substation	1988	202775
T	452m N	Electricity Substation	1990	200926
T	463m N	Electricity Substation	1996	202235
T	465m N	Electricity Substation	1970	202235
T	467m N	Electricity Substation	1970	202235
8	486m N	Electricity Substation	1995	200926

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

2

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 19 >](#)

ID	Location	Land Use	Date	Group ID
A	1m NE	Filling Station	1970	3452
A	3m NE	Filling Station	1970	3392



This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

9

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

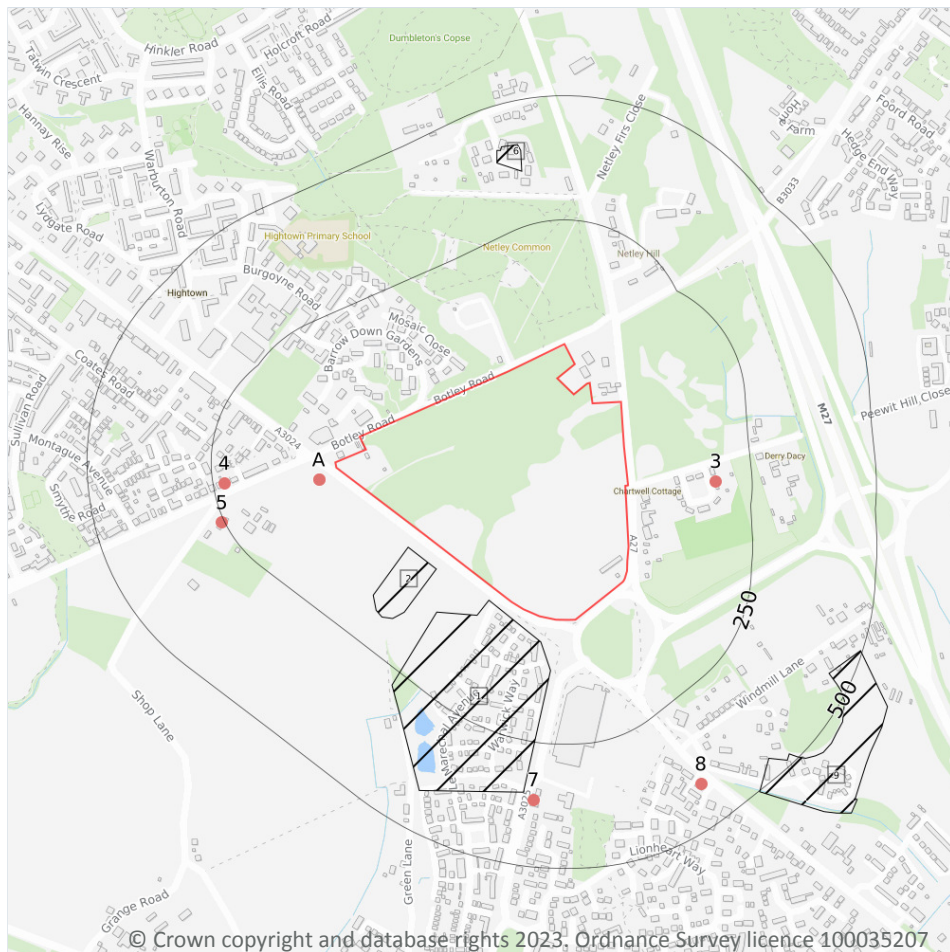
Features are displayed on the Past land use - un-grouped map on [page 19](#) >

ID	Location	Land Use	Date	Group ID
D	37m W	Garage	1965	63335
D	38m W	Garage	1970	63335
D	41m W	Garage	1970	61825
D	42m W	Garage	1987	64785
D	47m W	Garage	1997	64785
N	380m W	Garage	1989	62602
N	381m W	Garage	1970	65317
N	381m W	Garage	1970	65317
N	388m W	Garage	1965	61100

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m	0
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Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	4
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Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on [page 25 >](#)

ID	Location	Details		
1	25m S	Site Address: Car Boot Sale Site, Bursledon Road Licence Holder Address: -	Waste Licence: - Site Reference: FEA28 Waste Type: Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
2	40m SW	Site Address: Land Adjacent to Bursledon Road, Hightown, Southampton Licence Holder Address: -	Waste Licence: - Site Reference: FEA20 Waste Type: Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
6	358m N	Site Address: Kanes Hill Gravel Pit, Pinewood Park, West End, Hampshire Licence Holder Address: 27 Nobs Crook Lane, Goldon Common, Hampshire	Waste Licence: Yes Site Reference: 9/7, FEA5 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 19/04/1977 Licence Surrender: -	Operator: - Licence Holder: A J Mills First Recorded 01/06/1947 Last Recorded: -
9	453m SE	Site Address: Providence Hill, Bursledon, Hampshire Licence Holder Address: -	Waste Licence: - Site Reference: FEA31, EAST 7 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

7

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 25 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	44m W	-	WEX229341	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	44m W	-	WEX229341	Using waste exemption	Not on a farm	Use of waste in construction
3	176m E	FIR TREE FARM, PEWITT HILL, BURSLEDON, SO31 8BL	WEX121999	Using waste exemption	On a farm	Use of waste in construction
4	228m W	COLES YARD, BOTLEY ROAD, BURSLEDON, SOUTHAMPTON, SO19 0NL	WEX111399	Using waste exemption	Not on a farm	Use of waste in construction
5	257m W	SHOP LANE, SOUTHAMPTON, SO19 0QS	WEX237540	Using waste exemption	Not on a farm	Use of waste in construction
7	367m S	BEAUFORT HOUSE, HAMBLE LANE, BURSLEDON, SOUTHAMPTON, SO31 8BR	WEX342513	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal

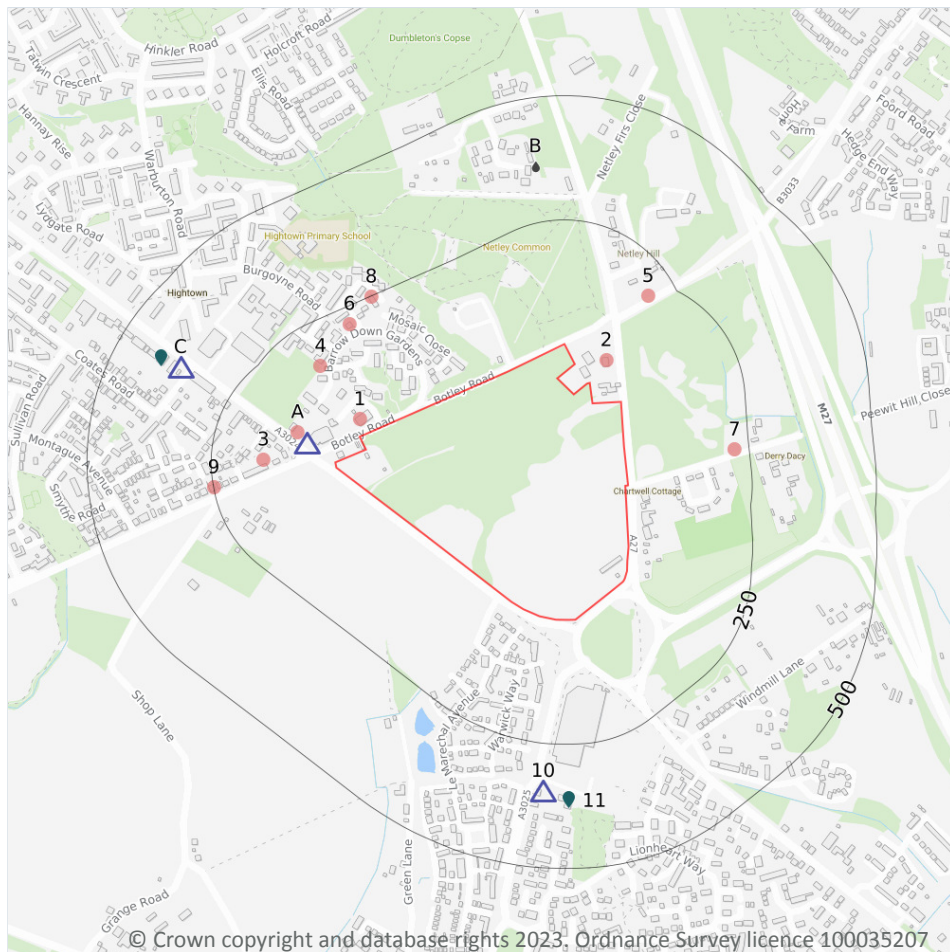


ID	Location	Site	Reference	Category	Sub-Category	Description
8	417m SE	C/O FOREMAN HOMES, PROVIDENCE HILL, BURSLEDON, SOUTHAMPTON, SO31 8JZ	WEX213888	Using waste exemption	Not on a farm	Use of waste in construction

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m

10

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 29](#) >

ID	Location	Company	Address	Activity	Category
1	32m NW	Hightown Ambulance Resource Centre	Hampshire, SO19	Ambulance and Medical Transportation Services	Health Support Services
2	56m NE	Viscount Leisure	West End Road, Bursledon, Southampton, Hampshire, SO31 8BN	New Vehicles	Motoring



ID	Location	Company	Address	Activity	Category
A	98m W	Hamble Motors Ltd	493-495, Bursledon Road, Southampton, Hampshire, SO19 8NJ	New Vehicles	Motoring
3	145m W	Electricity Sub Station	Hampshire, SO19	Electrical Features	Infrastructure and Facilities
4	162m NW	Electricity Sub Station	Hampshire, SO19	Electrical Features	Infrastructure and Facilities
5	194m NE	Electricity Sub Station	Hampshire, SO19	Electrical Features	Infrastructure and Facilities
6	216m NW	K M Cars	3, Flint Close, Southampton, Hampshire, SO19 6RQ	Secondhand Vehicles	Motoring
7	220m E	Electricity Poles	Hampshire, SO31	Electrical Features	Infrastructure and Facilities
8	249m NW	Gripclad Ltd	39, Flint Close, Southampton, Hampshire, SO19 6RQ	Carpets, Flooring, Rugs and Soft Furnishings	Consumer Products
9	250m W	A B Jones	235, Botley Road, Southampton, Hampshire, SO19 0NL	Rubber, Silicones and Plastics	Industrial Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

3

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 29 >](#)

ID	Location	Company	Address	LPG	Status
A	70m W	OBSOLETE	Bursledon Road, Hightown, Southampton, Southampton, SO19 8NJ	Not Applicable	Obsolete
10	346m S	TESCO EXTRA	Hamble Lane, Bursledon, Southampton, Hampshire, SO31 8GN	No	Open
C	366m W	BP	430, Bursledon Road, Sholing, Southampton, Hampshire, SO19 8NG	Yes	Open

This data is sourced from Experian.



4.3 Electricity cables

Records within 500m**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m**0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.



4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

2

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 29 >](#)

ID	Location	Address	Details	
11	362m S	Tesco, Hamble Lane, Bursledon, Southampton, SO31 8GN	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	408m W	Sholing SF Connect, 430 Bursledon Road, SO19 8NG	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

3

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on [page 29](#) >

ID	Location	Address	Details	
B	362m N	DUMBLETON CLOSE (14 HOUSES), DUMBLETON CLOSE, SOUTHAMPTON, HAMPSHIRE, SO19 6AP	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: P05702 Permit Version: 2 Receiving Water: INTO LAND	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/10/2001 Effective Date: 15/10/2001 Revocation Date: 20/12/2012
B	362m N	DUMBLETON CLOSE (14 HOUSES), DUMBLETON CLOSE, SOUTHAMPTON, HAMPSHIRE, SO19 6AP	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: P05702 Permit Version: 1 Receiving Water: INTO LAND	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 03/05/1995 Effective Date: 03/05/1995 Revocation Date: 14/10/2001
B	362m N	DUMBLETON CLOSE (14 HOUSES), DUMBLETON CLOSE, SOUTHAMPTON, HAMPSHIRE, SO19 6AP	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: P05702 Permit Version: 3 Receiving Water: INTO LAND	Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21/12/2012 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m**0**

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m**0**

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m**0**

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m**0**

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

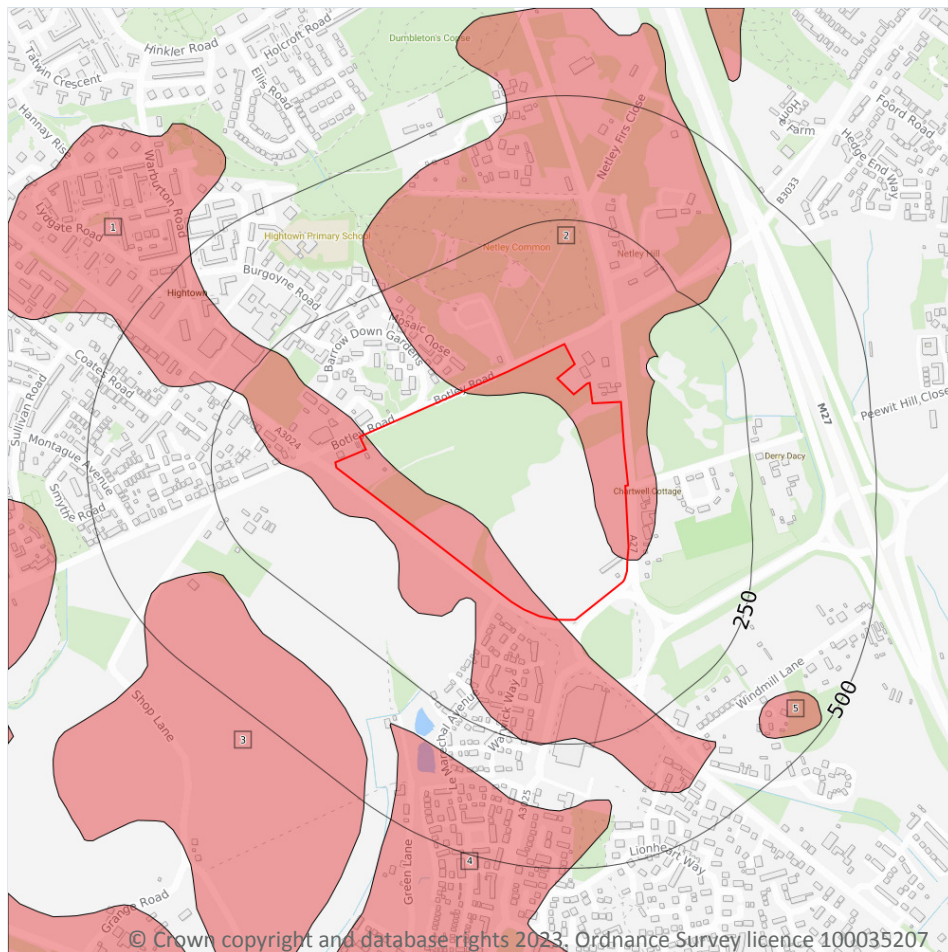
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 36](#) >

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



ID	Location	Designation	Description
3	315m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	328m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	378m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

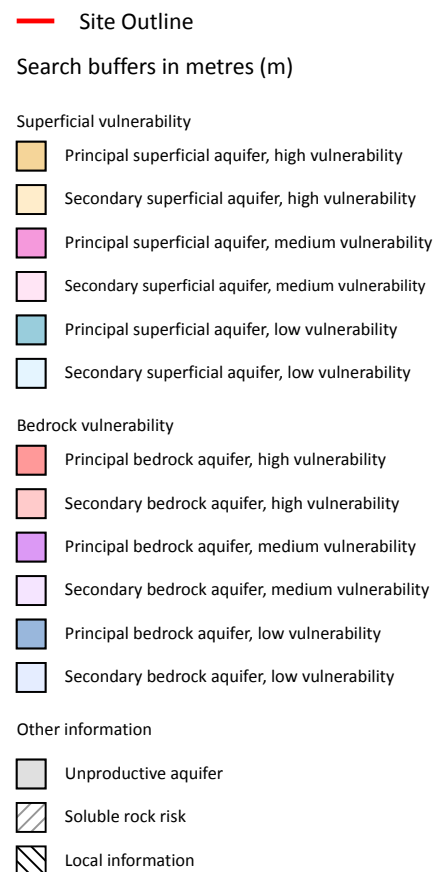
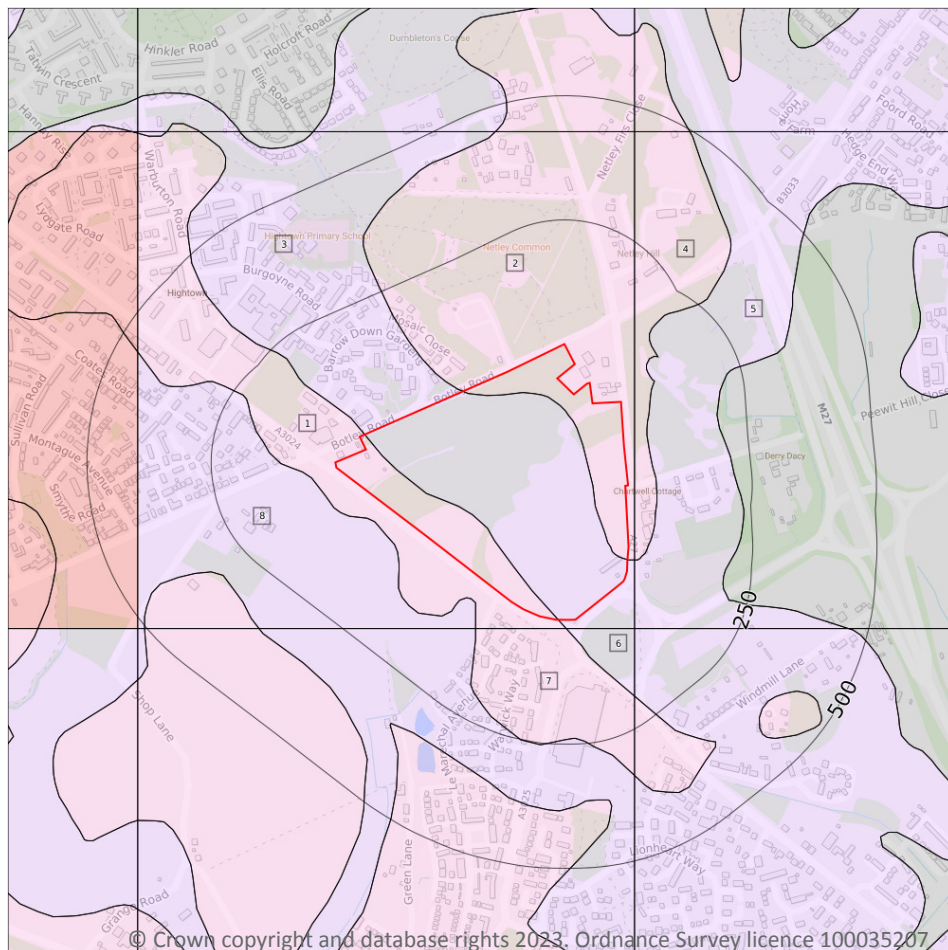


This is a detailed Ordnance Survey map of a residential area in Hightown. The map shows a network of streets including Hinkler Road, Holcroft Road, Dumbleton's Copse, Netley Hill, Netley Common, Mosaic Close, Down, Botley Road, and others. A red-outlined plot, labeled '1', is located near the intersection of Botley Road and Down. The map also shows Hightown Primary School, Netley Hill, and Netley Common. A scale bar indicates distances up to 500 meters, and a north arrow is present. The map is overlaid with a grid of 10-degree squares, with the grid reference 4324 visible. The map is titled '© Crown copyright and database rights 2023. Ordnance Survey licence 100035207'.

-  Principal
-  Secondary A
-  Secondary B
-  Secondary Undifferentiated
-  Unproductive

38

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

8

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 39](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Mixed
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Mixed
3	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Mixed
4	12m SE	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Mixed
5	14m SE	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Mixed
6	17m S	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Intergranular
7	17m S	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Intergranular



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	40m W	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Mixed

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

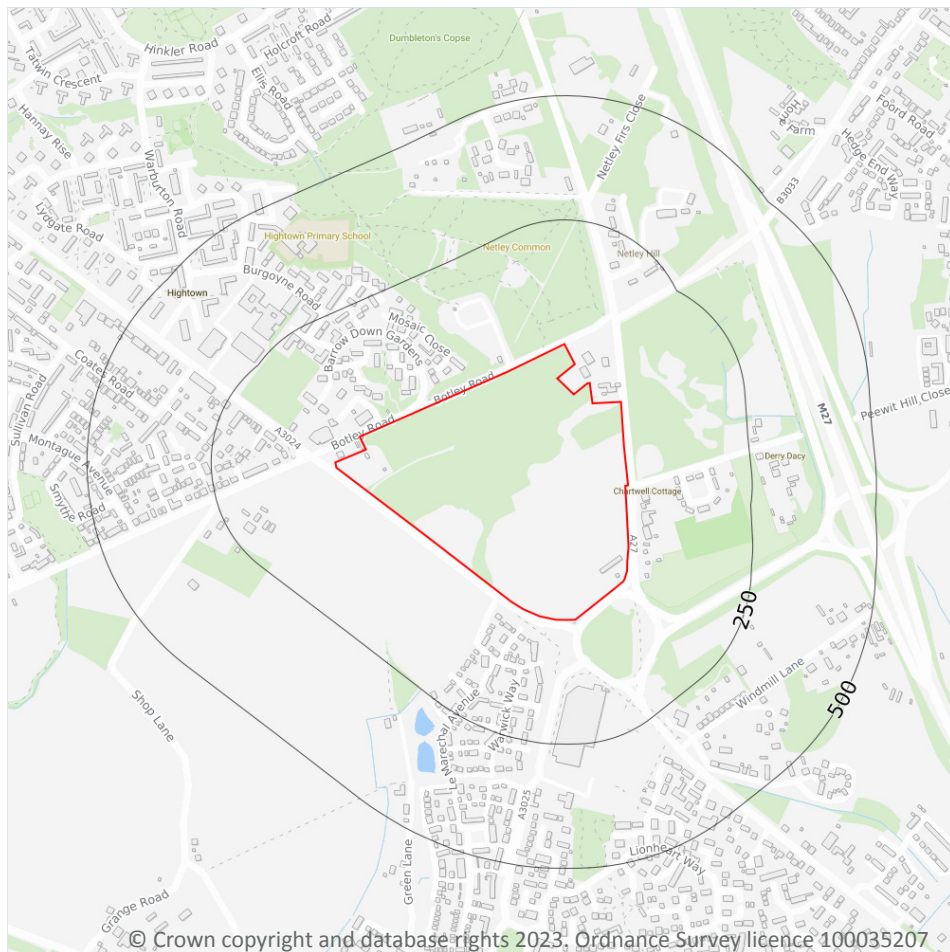
Records on site

0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

1

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 42 >](#)



ID	Location	Details	
-	1556m E	Status: Historical Licence No: 11/42/25.10/49 Details: General Farming & Domestic Direct Source: Southern Region Groundwater Point: BRIXEDONE FARM WISHING WELL Data Type: Point Name: Game Bros Easting: 449470 Northing: 110650	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 23/12/1965 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

4

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 42 >](#)

ID	Location	Details	
-	1279m S	Status: Active Licence No: 11/42/24/5CA Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: PICKWELL FARM RESERVOIR Data Type: Poly4 Name: D & M Draper & Sons Easting: 447168 Northing: 109906	Annual Volume (m ³): 13638 Max Daily Volume (m ³): 545.5 Original Application No: NPS/NA/001896 Original Start Date: 24/03/1986 Expiry Date: - Issue No: 101 Version Start Date: 13/08/2021 Version End Date: -
-	1279m S	Status: Active Licence No: 11/42/24/5CA Details: Trickle Irrigation - Direct Direct Source: Southern Region Surface Waters Point: PICKWELL FARM RESERVOIR Data Type: Poly4 Name: D & M Draper & Sons Easting: 447168 Northing: 109906	Annual Volume (m ³): 13638 Max Daily Volume (m ³): 545.5 Original Application No: NPS/NA/001896 Original Start Date: 24/03/1986 Expiry Date: - Issue No: 101 Version Start Date: 13/08/2021 Version End Date: -



ID	Location	Details	
-	1379m S	Status: Historical Licence No: 11/42/24/5CA Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: PICKWELL FARM IMPOUNDMENT, OLD NETLEY Data Type: Point Name: Draper Easting: 447170 Northing: 109800	Annual Volume (m ³): 13638 Max Daily Volume (m ³): 545.50 Original Application No: - Original Start Date: 24/03/1986 Expiry Date: - Issue No: 100 Version Start Date: 11/06/2009 Version End Date: -
-	1564m SW	Status: Historical Licence No: 11/42/23/5CA Details: Mineral Washing Direct Source: Southern Region Surface Waters Point: TICKLEFORD GULLEY IMPOUNDMENT AT BURROWS COPSE Data Type: Point Name: Leigh Environmental Ltd Easting: 446200 Northing: 110320	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 19/06/1991 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0
-----------------------------	----------

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0
----------------------------	----------

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.10 Source Protection Zones (confined aquifer)

Records within 500m

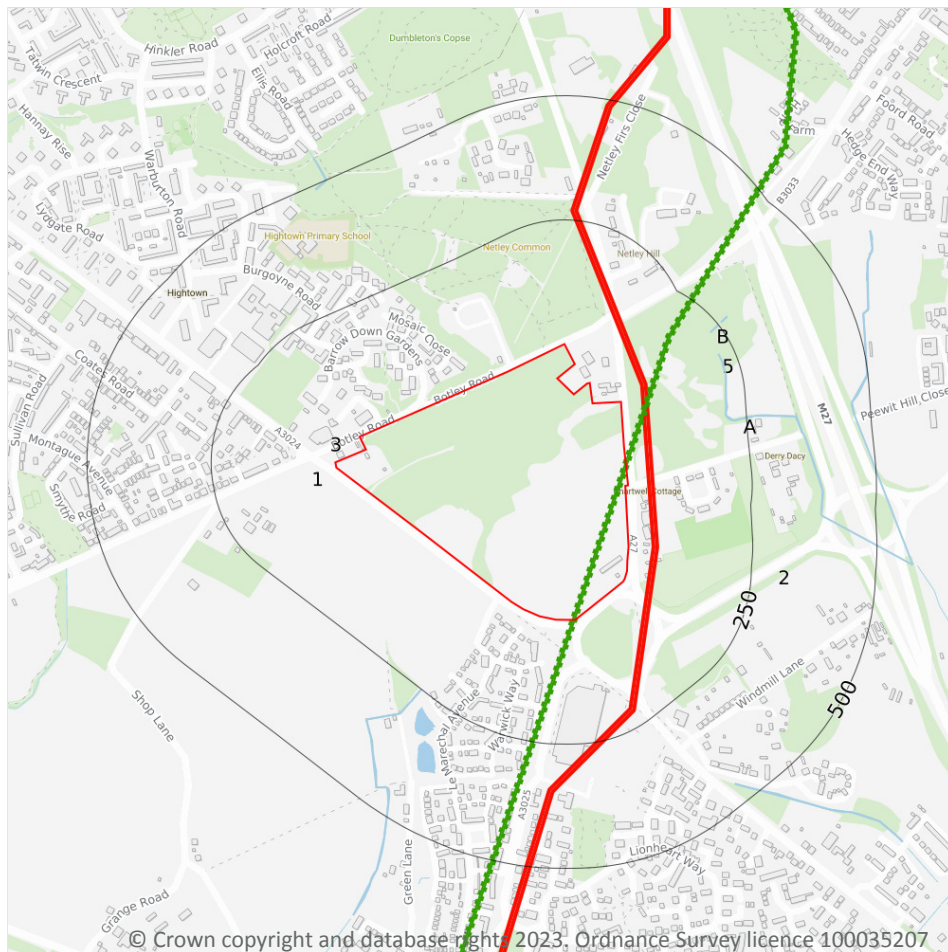
0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

3

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on [page 46 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
A	208m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
5	218m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	228m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	2
----------------------------	----------

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on [page 46 >](#)

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1
------------------------	----------

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on [page 46 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	Coastal Catchment	Not part of a river WB catchment	60	Itchen	Test and Itchen

This data is sourced from the Environment Agency and Natural Resources Wales.



6.4 WFD Surface water bodies

Records identified

0

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site

2

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 46 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	South East Hants Bracklesham Group	GB40702G503000 ↗	Poor	Poor	Good	2019
3	On site	Central Hants Bracklesham Group	GB40702G500900 ↗	Good	Good	Good	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m**0**

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m**0**

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m**0**

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

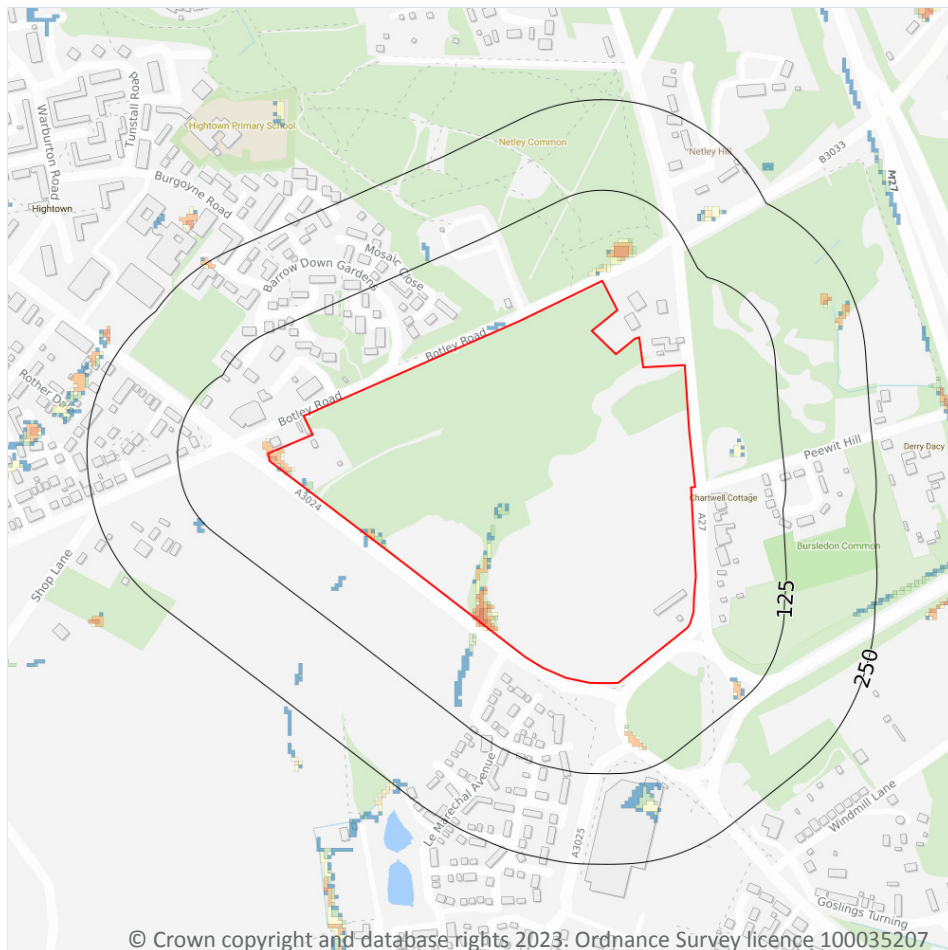
0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on [page 52 >](#)

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

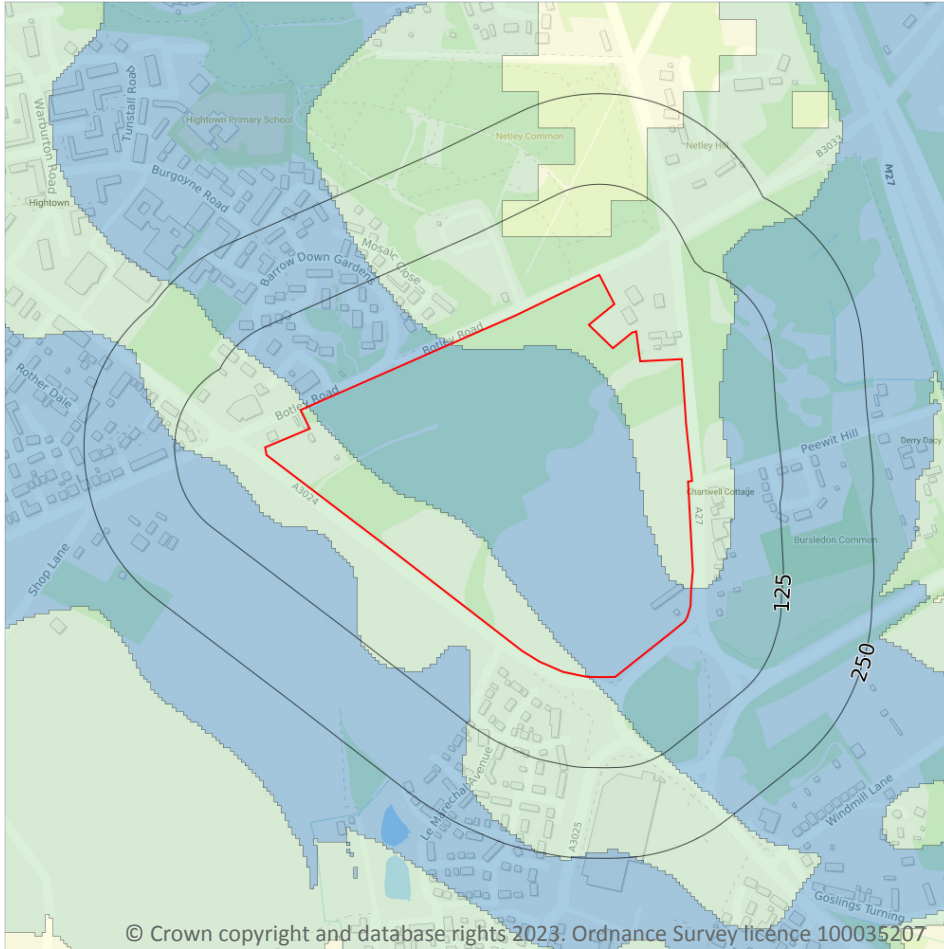
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

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9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

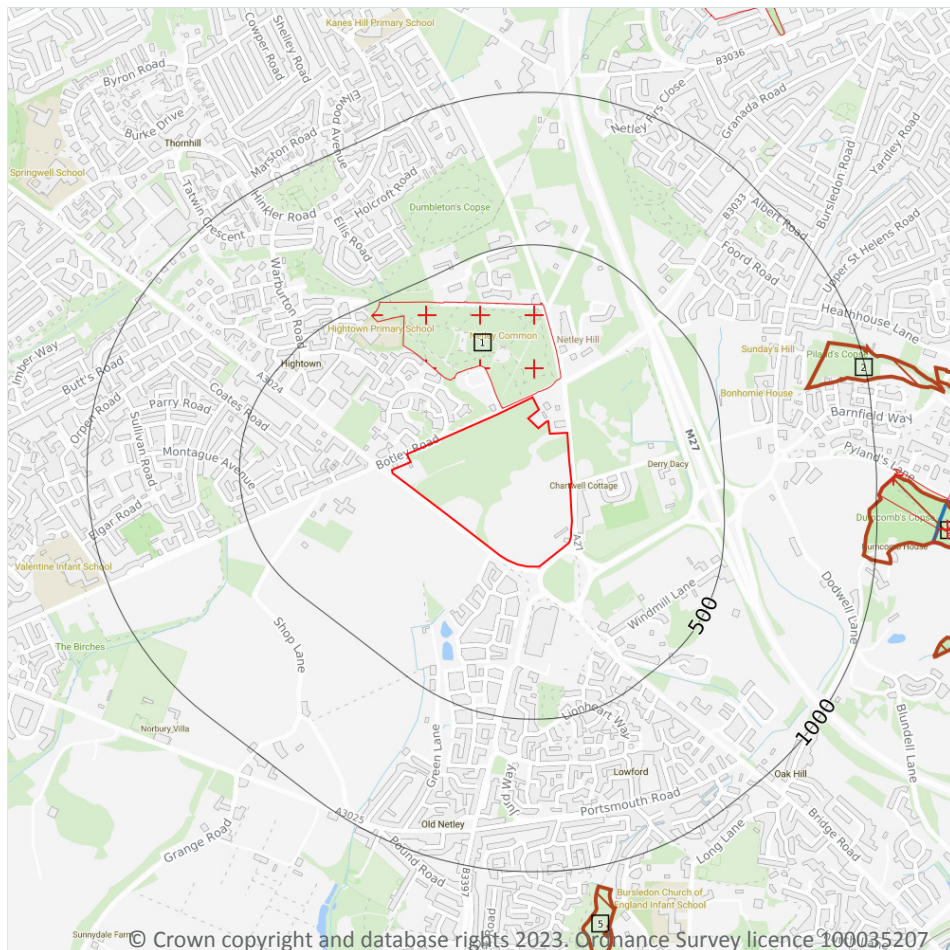
Low

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on [page 54 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- ▤ Sites of Special Scientific Interest (SSSI)
- ✕ Conserved wetland sites (Ramsar sites)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- + Local Nature Reserves (LNR)
- ▤ Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on [page 55](#) >

ID	Location	Name	Data source
A	1186m E	Upper Hamble Estuary and Woods	Natural England



This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

1

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

Features are displayed on the Environmental designations map on [page 55 >](#)

ID	Location	Site	Details
-	1647m E	Name: Solent & Southampton Water Site status: Listed Data source: Natural England	Overview: The area covered extends from Hurst Spit to Gilkicker Point along the south coast of Hampshire and along the north coast of the Isle of Wight. The site comprises of estuaries and adjacent coastal habitats including intertidal flats, saline lagoons, shingle beaches, saltmarsh, reedbeds, damp woodland, and grazing marsh. The diversity of habitats support internationally important numbers of wintering waterfowl, important breeding gull and tern populations and an important assemblage of rare invertebrates and plants. Ramsar criteria: Ramsar criterion 1 The site is one of the few major sheltered channels between a substantial island and mainland in European waters, exhibiting an unusual strong double tidal flow and has long periods of slack water at high and low tide. It includes many wetland habitats characteristic of the biogeographic region: saline lagoons, saltmarshes, estuaries, intertidal flats, shallow coastal waters, grazing marshes, reedbeds, coastal woodland and rocky boulder reefs. Ramsar criterion 2 The site supports an important assemblage of rare plants and invertebrates. At least 33 British Red Data Book invertebrates and at least eight British Red Data Book plants are represented on site.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m

1

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on [page 55 >](#)



ID	Location	Name	Features of interest	Habitat description	Data source
-	1648m E	Solent Maritime	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Annual vegetation of drift lines; Coastal shingle vegetation outside the reach of waves; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Shifting dunes with marram; Dune grassland; Desmoulin's whorl snail; Otter; Common seal.	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	4
-----------------------------	----------

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

Features are displayed on the Environmental designations map on [page 55 >](#)

ID	Location	Name	Species of interest	Habitat description	Data source
-	1648m E	Solent & Southampton Water	Eurasian teal; Ringed plover; Mediterranean gull; Sandwich tern; Roseate tern; Common tern; Little tern; Black-tailed godwit; Dark-bellied brent goose	Salt marshes, Salt pastures, Salt steppes; Coastal sand dunes, Sand beaches, Machair; Shingle, Sea cliffs, Islets; Broad-leaved deciduous woodland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England
15	1729m SE	Solent and Dorset Coast	Sandwich tern; Common tern; Little tern	Marine areas, Sea inlets; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes; Shingle, Sea cliffs, Islets; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England
-	1770m SE	Solent and Dorset Coast	Sandwich tern; Common tern; Little tern	Marine areas, Sea inlets; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes; Shingle, Sea cliffs, Islets; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England



ID	Location	Name	Species of interest	Habitat description	Data source
-	1998m SE	Solent and Dorset Coast	Sandwich tern; Common tern; Little tern	Marine areas, Sea inlets; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes; Shingle, Sea cliffs, Islets; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites)	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0
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Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	7
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Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on [page 55 >](#)

ID	Location	Name	Data source
1	7m N	Netley Common	Natural England
4	1008m E	Manor Farm	Natural England
10	1376m NE	Wildern	Natural England
-	1606m N	Wildern	Natural England
-	1824m NE	Wildern	Natural England
-	1857m NE	Wildern	Natural England
-	1954m SE	Hackett's Marsh	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.7 Designated Ancient Woodland

Records within 2000m

11

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on [page 55 >](#)

ID	Location	Name	Woodland Type
2	799m E	Catland/fosters/bottom Copses	Ancient & Semi-Natural Woodland
3	961m E	Catland/fosters/bottom Copses	Ancient & Semi-Natural Woodland
5	1066m S	Unknown	Ancient & Semi-Natural Woodland
6	1227m E	Catland/fosters/bottom Copses	Ancient & Semi-Natural Woodland
7	1253m E	Unknown	Ancient & Semi-Natural Woodland
-	1261m E	Catland/fosters/bottom Copses	Ancient & Semi-Natural Woodland
-	1361m E	Catland/fosters/bottom Copses	Ancient Replanted Woodland
-	1390m E	Unknown	Ancient & Semi-Natural Woodland
-	1587m S	Mallards Moor	Ancient & Semi-Natural Woodland
-	1646m E	Catland/fosters/bottom Copses	Ancient & Semi-Natural Woodland
-	1803m S	Priors Hill Copse/hound Grove	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.9 Forest Parks

Records within 2000m**0**

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m**0**

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m**0**

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m**0**

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

1

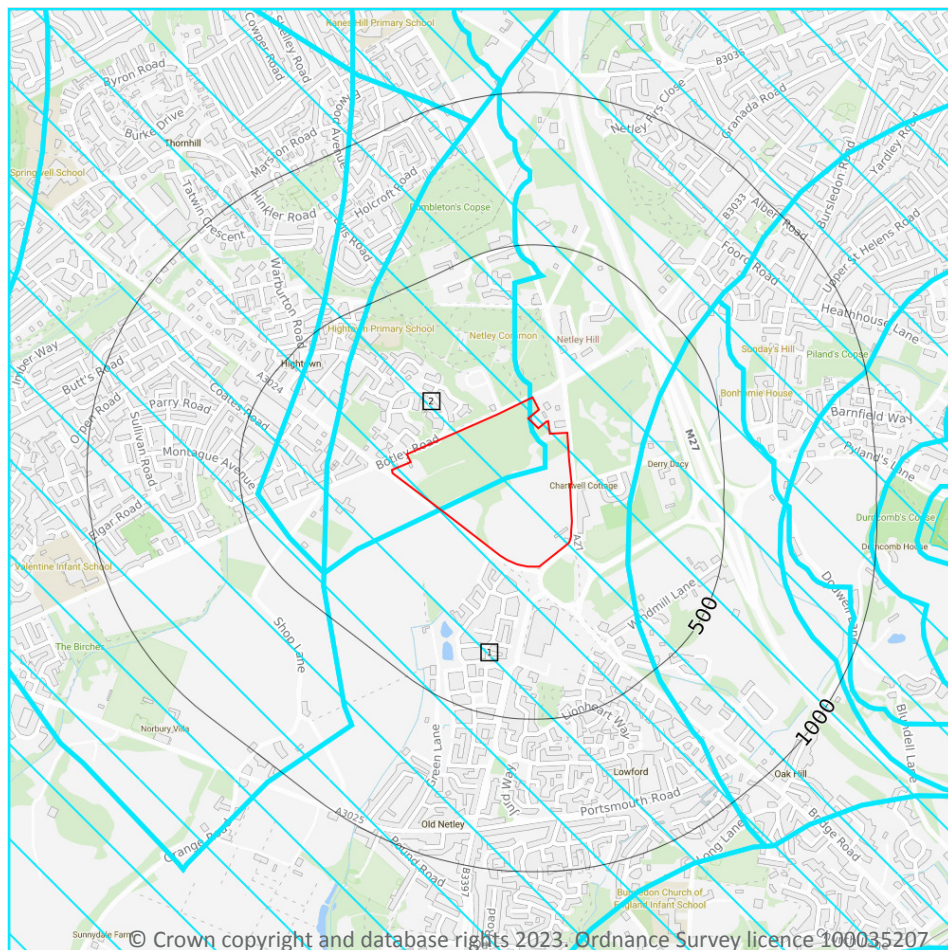
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Hamble Estuary Eutrophic NVZ (TraC)	Eutrophic Water	3	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

2

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on [page 62 >](#)

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 100 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more. Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements. NUTRIENT IMPACT AREA. For new development with overnight accommodation Reg 63 of the Conservation of Habitats and Species Regulations 2017 must be applied and additional measures required. LPA to refer to Natural England's Nutrient Neutrality advice.



ID	Location	Type of developments requiring consultation
2	On site	Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 100 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more. Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements. NUTRIENT IMPACT AREA. For new development with overnight accommodation Reg 63 of the Conservation of Habitats and Species Regulations 2017 must be applied and additional measures required. LPA to refer to Natural England's Nutrient Neutrality advice.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	3
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on [page 62 >](#)

ID:	10
Location:	1186m E
SSSI name:	Upper Hamble Estuary and Woods
Unit name:	Manor Farm Woodland
Broad habitat:	Broadleaved, Mixed And Yew Woodland - Lowland
Condition:	Favourable



Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	08/03/2021

ID: -
 Location: 1389m E
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Hoe Moor Creek Woodland
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Unfavourable - No change
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Unfavourable - No change	02/07/2010

ID: -
 Location: 1648m E
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Manor Farm Foreshore
 Broad habitat: Littoral Sediment
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
H1130 Estuaries	Not Recorded	01/01/1900
H1140 Mudflats and sandflats not covered by seawater at low tide	Not Recorded	01/01/1900
H1310 Salicornia and other annuals colonising mud and sand	Favourable	08/03/2021
H1320 Spartina swards (Spartinion maritimae)	Favourable	08/03/2021
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	08/03/2021
Littoral sediment	Not Recorded	01/01/1900
SM4-28 - Saltmarsh	Favourable	08/03/2021

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

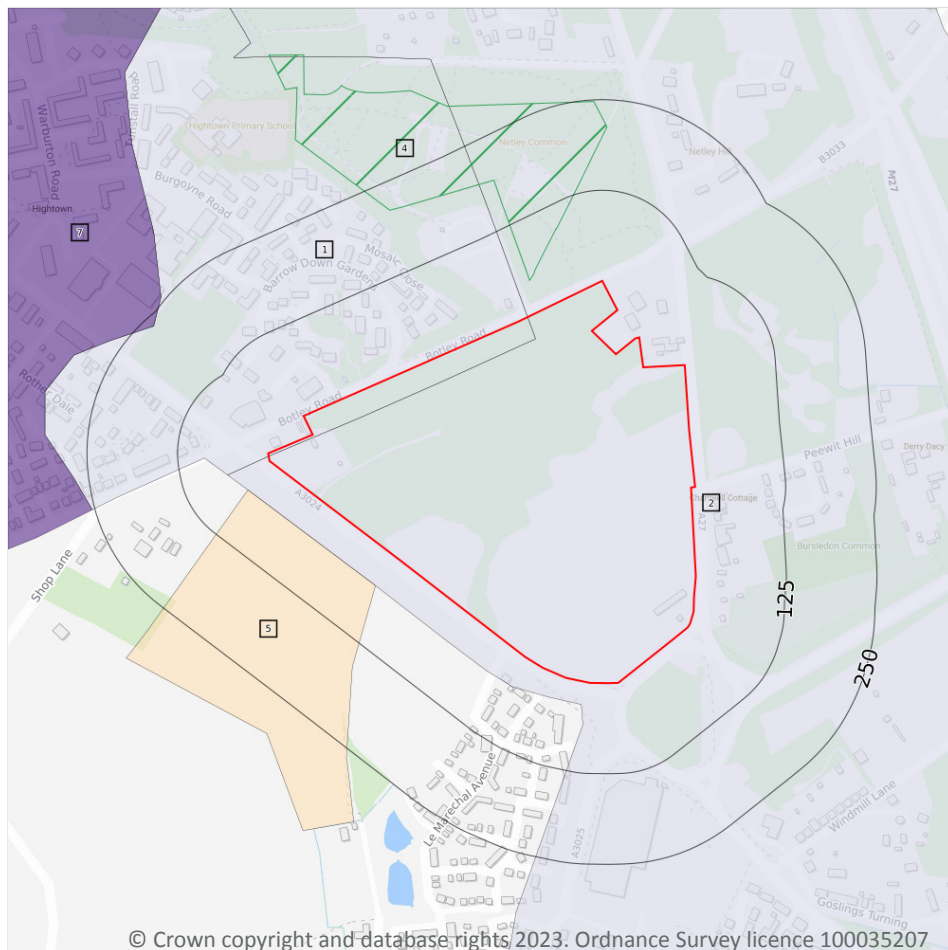
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

4

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on [page 68](#) >

ID	Location	Classification	Description
1	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.



ID	Location	Classification	Description
2	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
5	48m SW	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
7	236m NW	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

1

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on [page 68](#) >

ID	Location	Description	Reference	Application date
4	45m N	Selective Fell/Thin (Unconditional)	019/135/12-13	02/08/2012

This data is sourced from the Forestry Commission.



12.4 Environmental Stewardship Schemes

Records within 250m**1**

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
11m N	AG00350691	Higher Level Stewardship	01/02/2012	31/01/2023

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

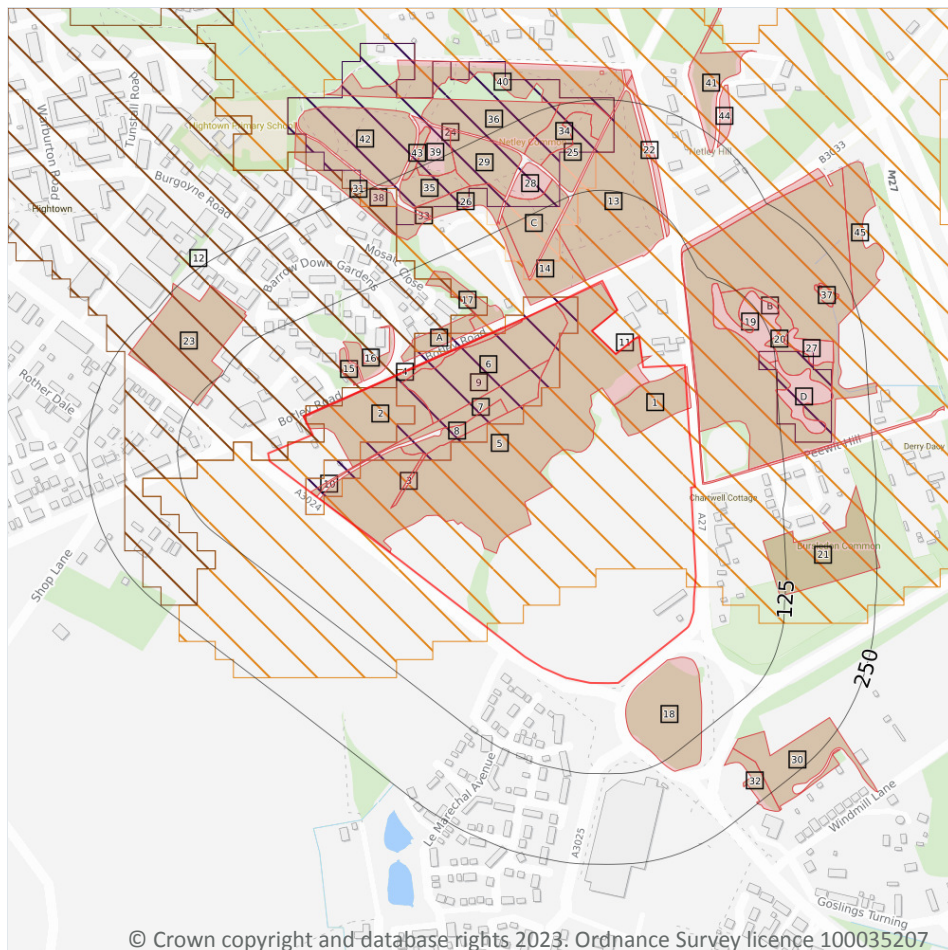
Records within 250m**0**

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

43

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on [page 71 >](#)

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
5	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	On site	Lowland heathland	Main habitat: LHEAT (INV > 50%); Additional: DWOOD (INV 50%)
7	On site	Lowland heathland	Main habitat: LHEAT (INV > 50%); DWOOD (INV > 50%)
8	On site	Lowland heathland	Main habitat: LHEAT (INV > 50%); DWOOD (INV > 50%)
13	10m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LRBOG (FEP 50%)
14	11m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LRBOG (FEP 50%)
B	11m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	11m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	11m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	12m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	13m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	13m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	18m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	49m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LHEAT (FEP + HLS)
19	68m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
20	91m NE	Deciduous woodland	Main habitat: LHEAT (INV > 50%); DWOOD (INV > 50%)
21	95m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
22	108m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LRBOG (FEP 50%)
D	117m NE	Lowland heathland	Main habitat: LHEAT (INV > 50%); DWOOD (INV > 50%)
23	118m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
25	130m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LHEAT (FEP + HLS)
26	133m N	No main habitat but additional habitats present	Additional: LRBOG (FEP 50%)
27	140m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
28	142m N	Lowland heathland	Main habitat: LHEAT (FEP + HLS)
29	163m N	Lowland heathland	Main habitat: LHEAT (INV > 50%, FEP + HLS)
30	163m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
31	165m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LRBOG (FEP 50%)
32	169m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
34	180m N	Lowland heathland	Main habitat: LHEAT (FEP + HLS)
35	197m N	Lowland heathland	Main habitat: LHEAT (INV > 50%, FEP + HLS)
36	204m N	Lowland heathland	Main habitat: LHEAT (INV > 50%, FEP + HLS)
37	207m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
39	226m N	Lowland heathland	Main habitat: LHEAT (FEP + HLS)
40	226m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LRBOG (FEP 50%)
41	232m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
42	241m NW	Lowland heathland	Main habitat: LHEAT (INV > 50%, FEP + HLS)
43	241m N	Lowland heathland	Main habitat: LHEAT (FEP + HLS)
44	243m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
45	246m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

10

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

Features are displayed on the Habitat designations map on [page 71](#) >

ID	Location	Type	Habitat
9	On site	Primary Habitat	Lowland heathland
10	On site	Primary Habitat	Lowland heathland
11	On site	Network Enhancement Zone 1	Not specified
12	On site	Network Enhancement Zone 2	Not specified
A	On site	Network Enhancement Zone 1	Not specified
C	39m N	Habitat Restoration-Creation	Not specified



ID	Location	Type	Habitat
D	102m NE	Primary Habitat	Lowland heathland
24	118m N	Primary Habitat	Lowland heathland
33	170m N	Habitat Restoration-Creation	Not specified
38	213m NW	Network Enhancement Zone 1	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

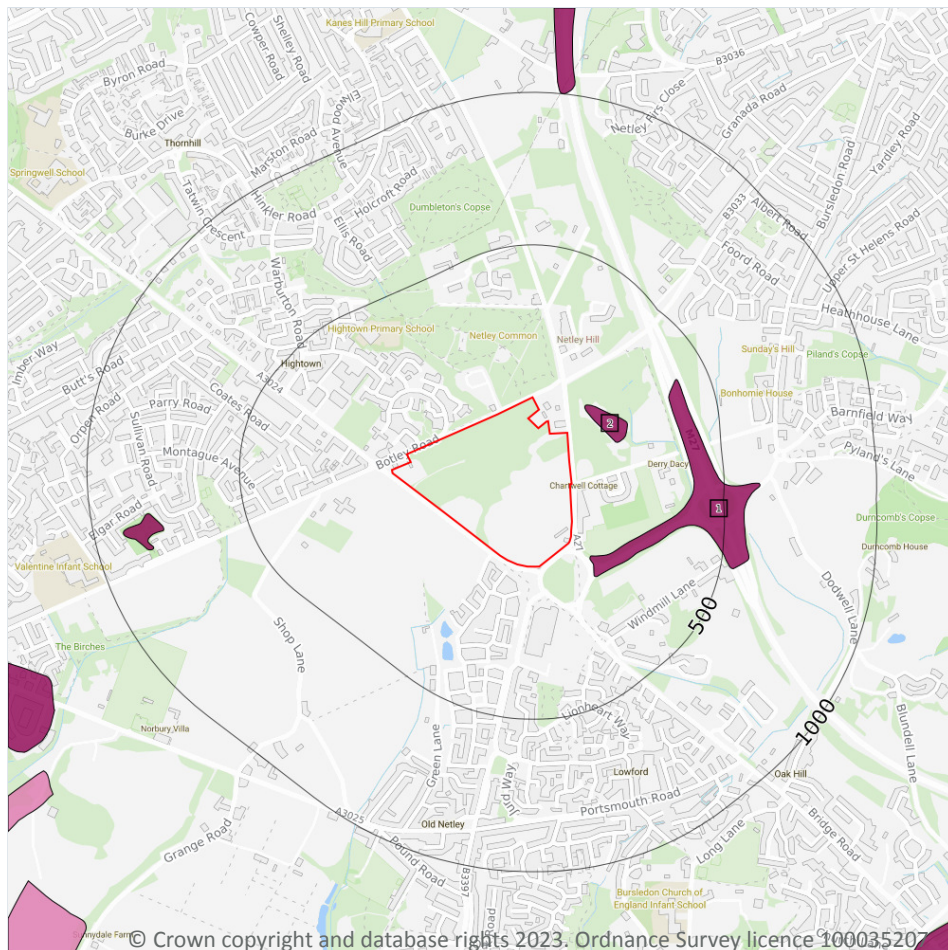
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 75](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SU41SE

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



- Site Outline**
- Search buffers in metres (m)**
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

2

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

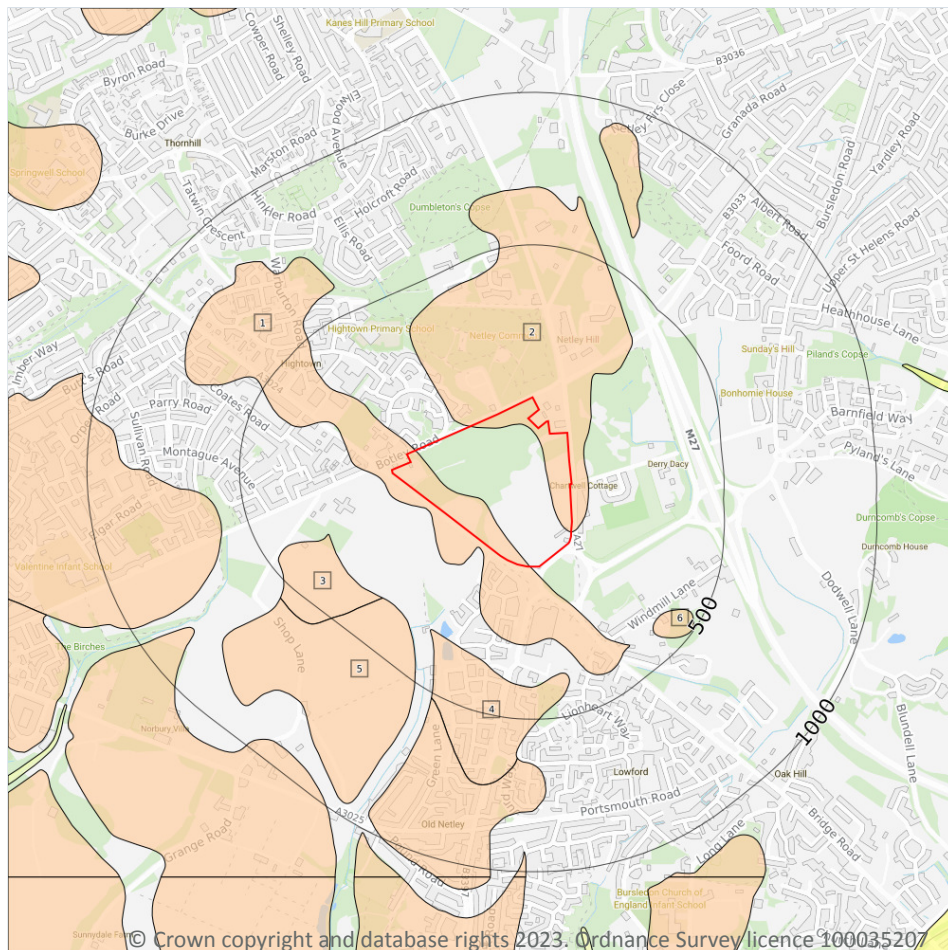
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 76](#) >

ID	Location	LEX Code	Description	Rock description
1	84m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	93m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

6

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 77](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	RTD8-XSV	River Terrace Deposits, 8 - Sand And Gravel	Sand And Gravel
2	On site	RTD9-XSV	River Terrace Deposits, 9 - Sand And Gravel	Sand And Gravel
3	290m W	RTD7-XSV	River Terrace Deposits, 7 - Sand And Gravel	Sand And Gravel
4	324m S	RTD7-XSV	River Terrace Deposits, 7 - Sand And Gravel	Sand And Gravel



ID	Location	LEX Code	Description	Rock description
5	341m SW	RTD6-XSV	River Terrace Deposits, 6 - Sand And Gravel	Sand And Gravel
6	382m SE	RTD8-XSV	River Terrace Deposits, 8 - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

2

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 79 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	WTT-CLSISA	Wittering Formation - Clay, Silt And Sand	Lutetian Age - Ypresian Age
2	179m SE	LC-CLSISA	London Clay Formation - Clay, Silt And Sand	Eocene Epoch

This data is sourced from the British Geological Survey.



14.6 Bedrock faults and other linear features (10k)

Records within 500m

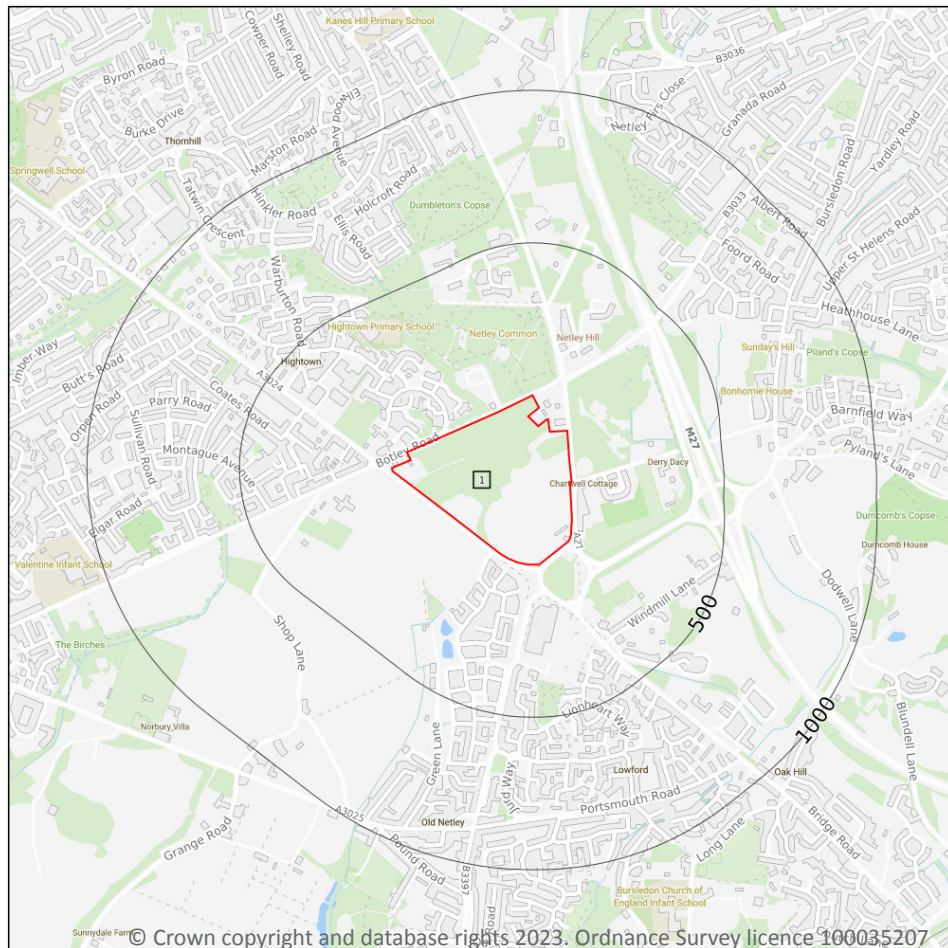
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

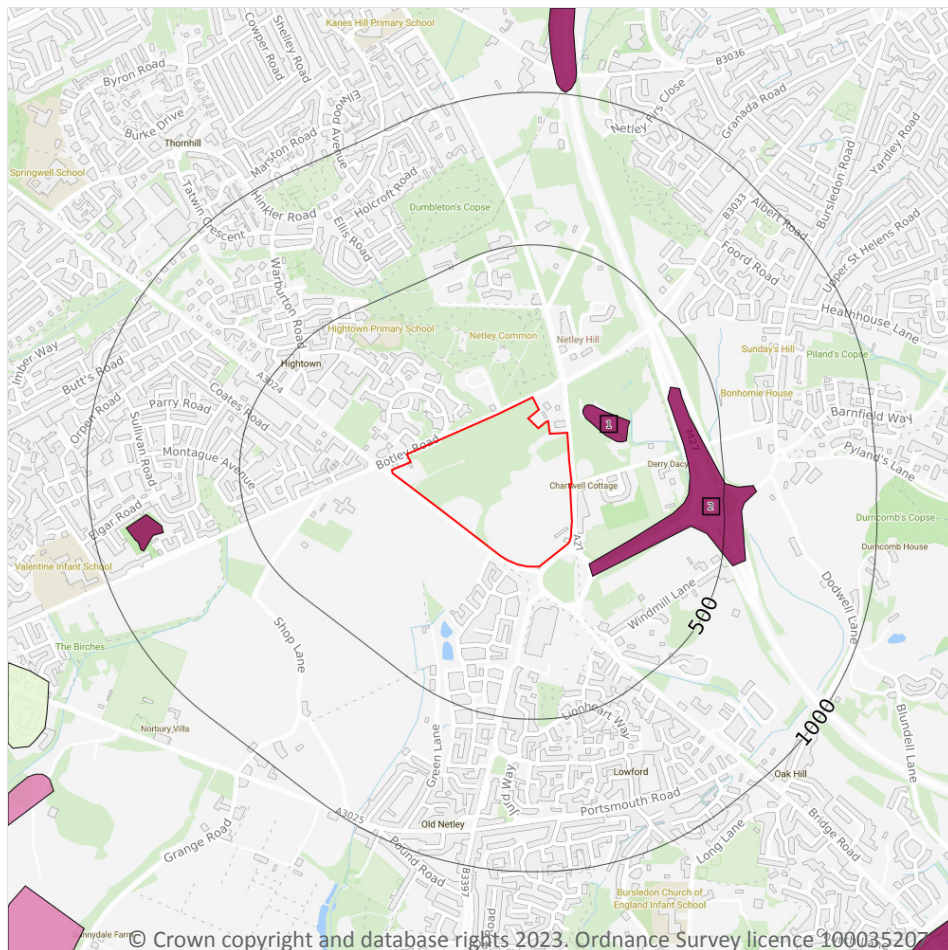
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 81](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW315_southampton_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 82](#) >

ID	Location	LEX Code	Description	Rock description
1	78m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	96m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

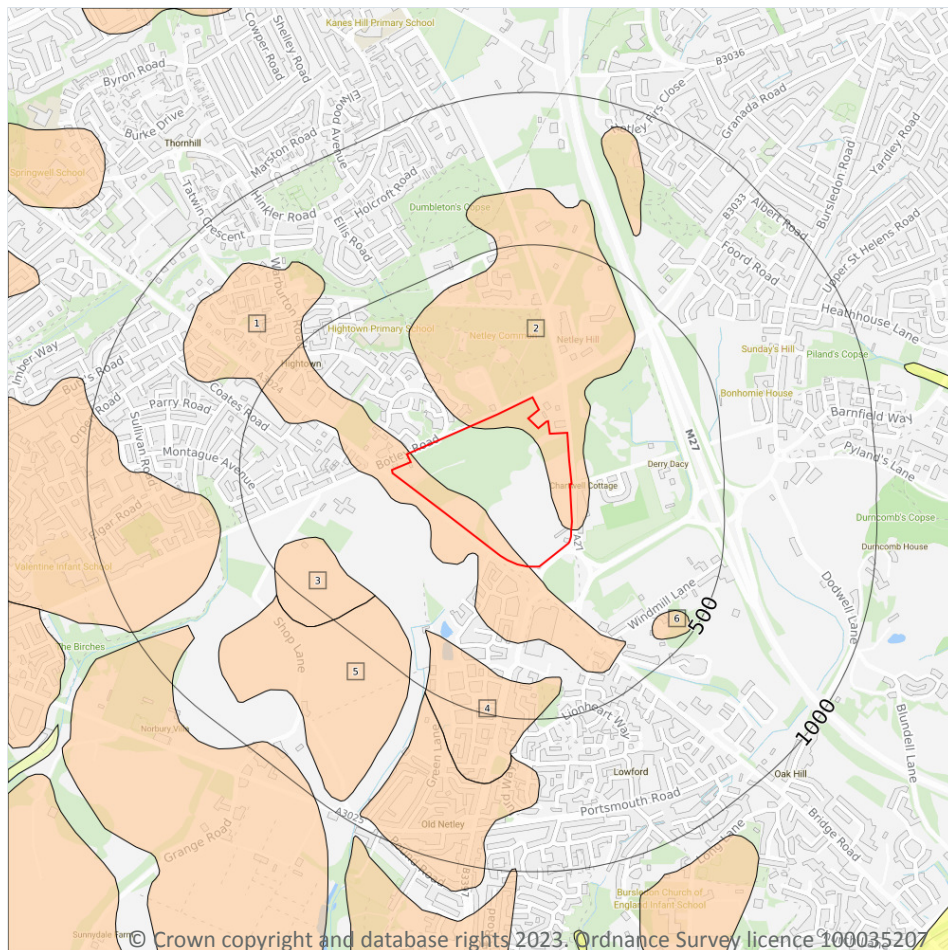
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

6

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 84](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	RTD8-XSV	RIVER TERRACE DEPOSITS, 8	SAND AND GRAVEL
2	On site	RTD9-XSV	RIVER TERRACE DEPOSITS, 9	SAND AND GRAVEL
3	315m W	RTD7-XSV	RIVER TERRACE DEPOSITS, 7	SAND AND GRAVEL
4	328m S	RTD7-XSV	RIVER TERRACE DEPOSITS, 7	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	354m SW	RTD6-XSV	RIVER TERRACE DEPOSITS, 6	SAND AND GRAVEL
6	378m SE	RTD9-XSV	RIVER TERRACE DEPOSITS, 9	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	2
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0
----------------------------	----------

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

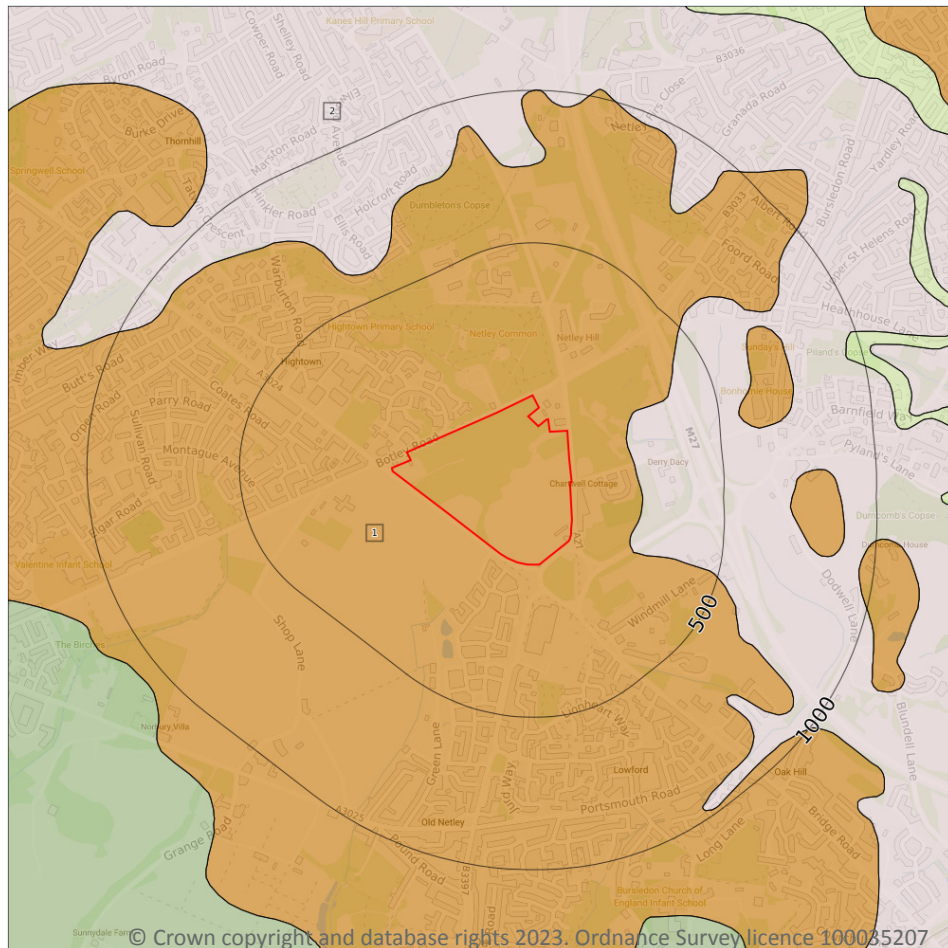
Records within 50m	0
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

2

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 86 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	WTT-XSZC	WITTERING FORMATION - SAND, SILT AND CLAY	YPRESIAN
2	191m E	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m**1**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

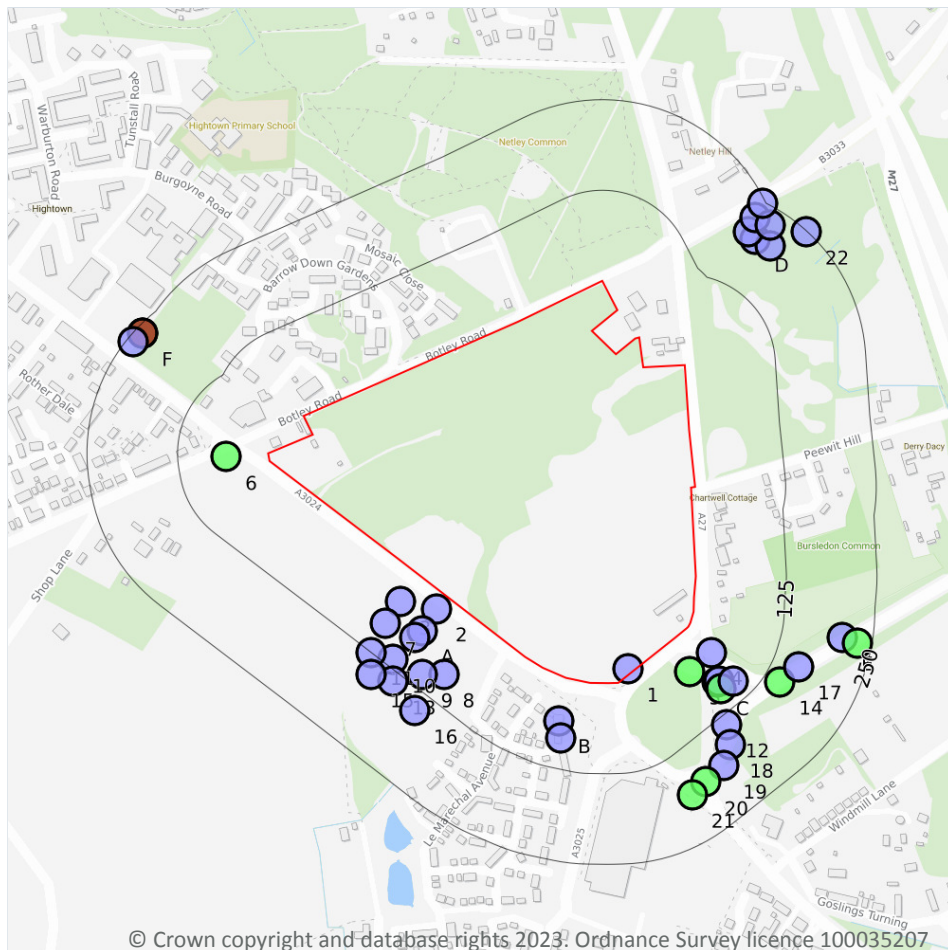
Records within 500m**0**

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

40

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on [page 88](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	447894 111037	M27 Junction 8 BH14	10.0	N	20983124 ↗
2	22m SW	447630 111120	GREEN LANE DEPOT TP2	3.0	N	410806 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
3	45m SW	447580 111130	GREEN LANE DEPOT TP1	3.5	N	410805 ↗
4	48m SE	448010 111060	WEST END MIN OF TRANSPORT BH180	4.57	N	410424 ↗
5	49m SE	447980 111034	M27 Junction 8 BH15	15.0	N	20983125 ↗
6	58m W	447340 111330	BOTLEY/BURSDEN ROAD BH1	15.0	N	410654 ↗
A	58m SW	447610 111090	GREEN LANE DEPOT TP12	3.5	N	410816 ↗
B	60m S	447799 110966	M27 Junction 8 HP05	1.2	N	20983130 ↗
A	72m SW	447600 111080	GREEN LANE DEPOT TP11	3.55	N	410815 ↗
7	81m SW	447560 111100	GREEN LANE DEPOT TP9	3.6	N	410813 ↗
B	83m S	447801 110942	M27 Junction 8 BH13	6.0	N	20983123 ↗
C	84m SE	448017 111019	M27 Junction 8 HP01	0.41	N	20983126 ↗
C	85m SE	448020 111020	M27 Junction 8 HP01A	1.2	N	20983127 ↗
8	87m SW	447640 111030	GREEN LANE DEPOT TP3	2.7	N	410807 ↗
C	94m SE	448022 111010	M27 Junction 8 BH10	15.0	N	20983120 ↗
C	98m SE	448040 111020	WEST END MIN OF TRANSPORT BH179A	7.01	N	410423 ↗
9	106m SW	447610 111030	GREEN LANE DEPOT TP4	3.7	N	410808 ↗
10	114m SW	447570 111050	GREEN LANE DEPOT TP10	3.0	N	410814 ↗
11	125m SW	447540 111060	GREEN LANE DEPOT TP8	2.8	N	410812 ↗
12	138m SE	448030 110960	WEST END MIN OF TRANSPORT BH181	5.18	N	410425 ↗
13	138m SW	447570 111020	GREEN LANE DEPOT TP6	2.7	N	410810 ↗
14	148m SE	448104 111019	M27 Junction 8 BH09	20.0	N	20983119 ↗
15	149m SW	447540 111030	GREEN LANE DEPOT TP7	2.8	N	410811 ↗
16	152m SW	447600 110980	GREEN LANE DEPOT TP5	2.8	N	410809 ↗
17	161m SE	448130 111040	WEST END MIN OF TRANSPORT BH179	4.57	N	410422 ↗
18	163m SE	448036 110933	M27 Junction 8 HP02	1.2	N	20983128 ↗

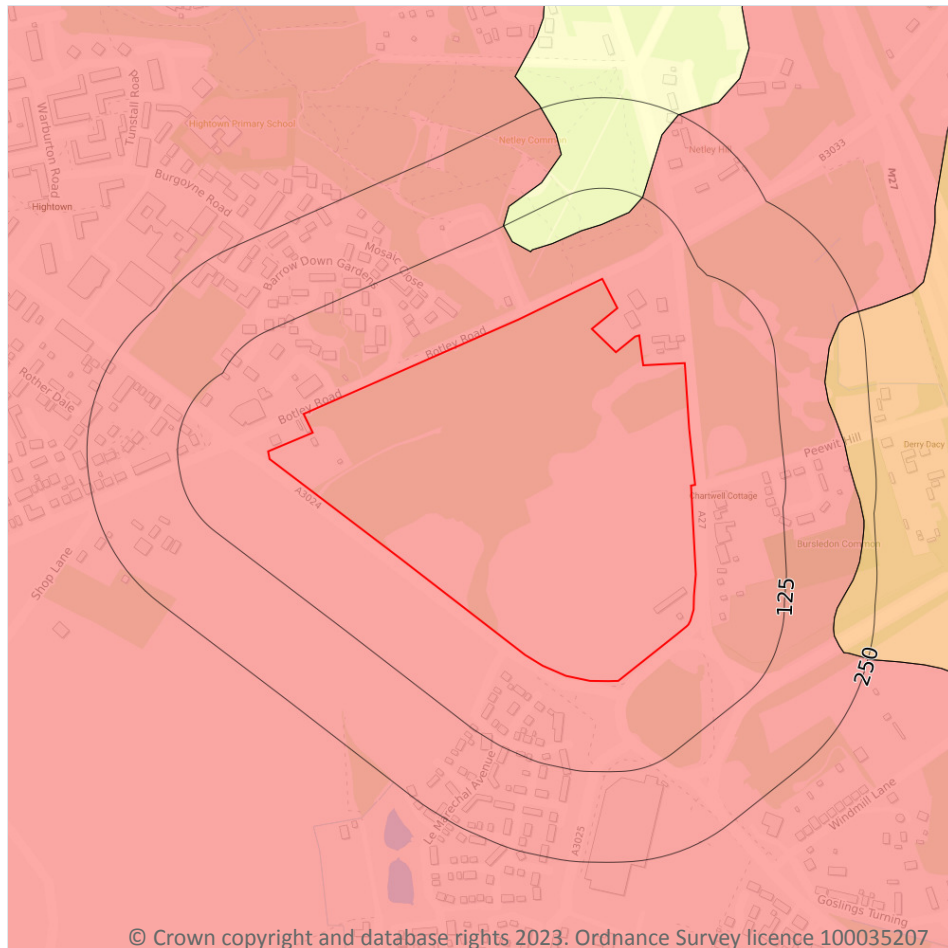


ID	Location	Grid reference	Name	Length	Confidential	Web link
19	180m SE	448027 110904	M27 Junction 8 HP03	1.2	N	20983129 ↗
20	182m SE	448001 110881	M27 Junction 8 BH11	15.0	N	20983121 ↗
21	185m SE	447983 110863	M27 Junction 8 BH12	15.0	N	20983122 ↗
D	199m NE	448070 111630	BURSLEDON AMBULANCE STATION TP9	3.0	N	410772 ↗
D	202m NE	448090 111620	BURSLEDON AMBULANCE STATION TP8	2.6	N	410771 ↗
D	204m NE	448060 111640	BURSLEDON AMBULANCE STATION TP1	2.3	N	410764 ↗
E	208m SE	448190 111080	WEST END MIN OF TRANSPORT BH178	5.18	N	410421 ↗
D	226m NE	448070 111660	BURSLEDON AMBULANCE STATION TP2	3.0	N	410765 ↗
D	227m NE	448090 111650	BURSLEDON AMBULANCE STATION TP7	2.6	N	410770 ↗
E	230m SE	448211 111072	M27 Junction 8 BH08	15.0	N	20983118 ↗
F	239m W	447225 111500	BURSLEDON ROAD TH5	-1.0	N	410873 ↗
F	242m W	447212 111489	BURSLEDON ROAD TH4	3.0	N	410872 ↗
D	246m NE	448080 111680	BURSLEDON AMBULANCE STATION TP3	3.0	N	410766 ↗
22	249m NE	448140 111640	BURSLEDON AMBULANCE STATION TP10	3.0	N	410773 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

1

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

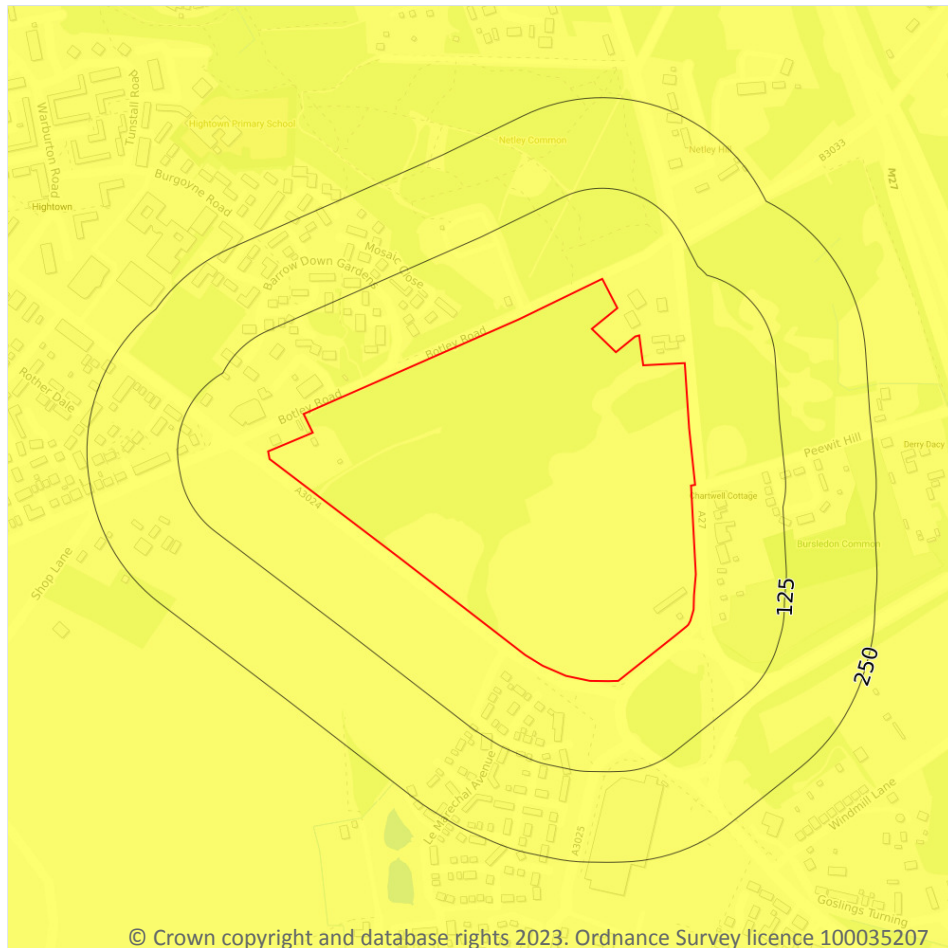
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 91 >](#)

Location	Hazard rating	Details
On site	Moderate	Ground conditions predominantly high plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

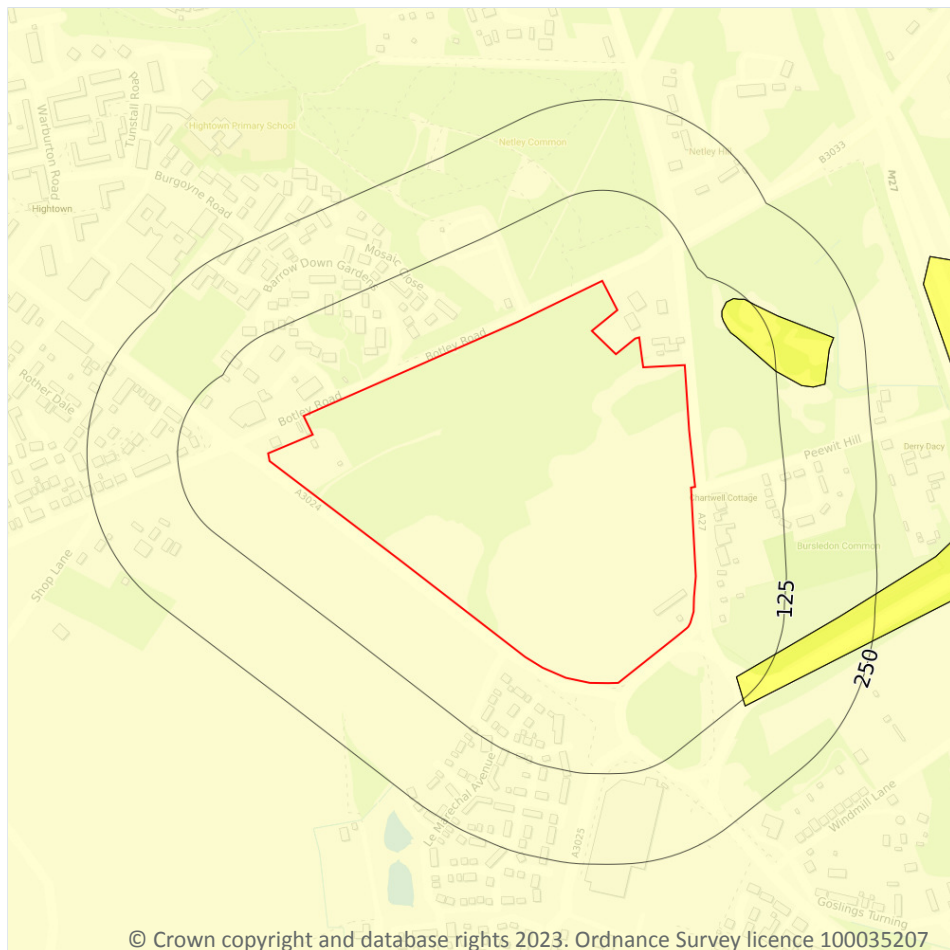
Features are displayed on the Natural ground subsidence - Running sands map on [page 92 >](#)

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

1

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

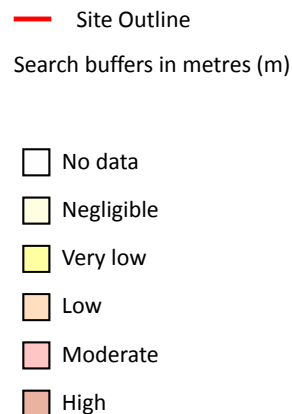
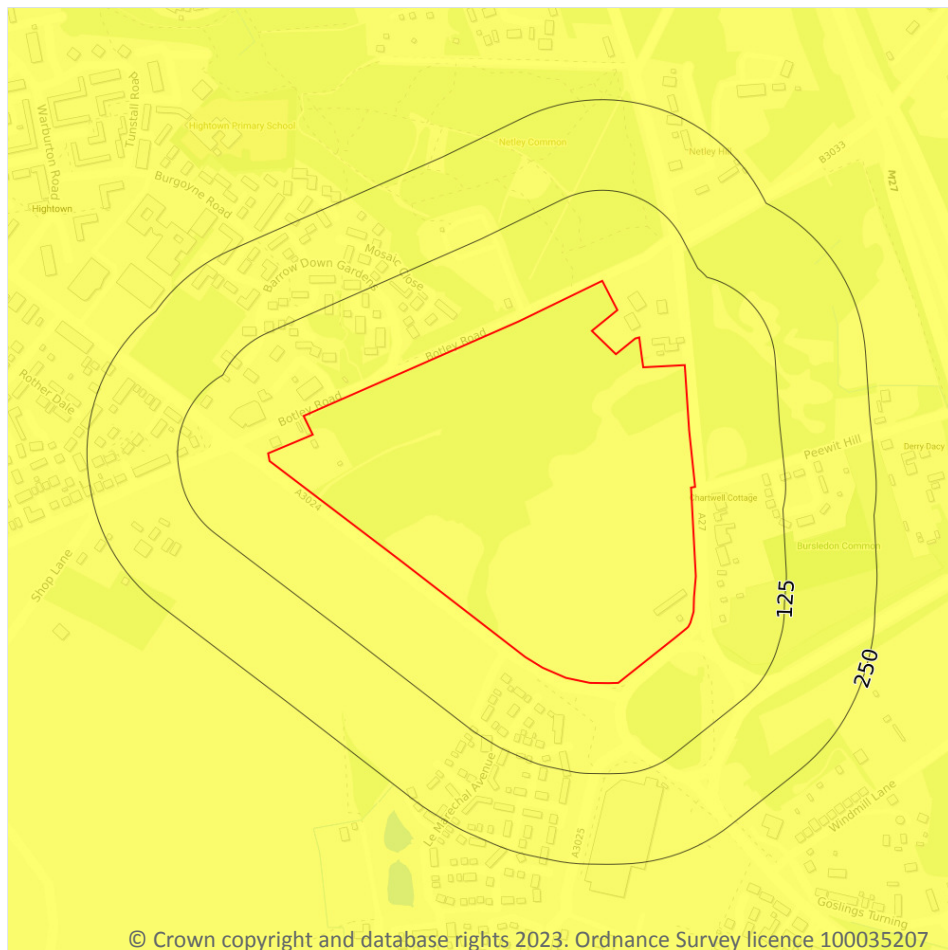
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 93](#) >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

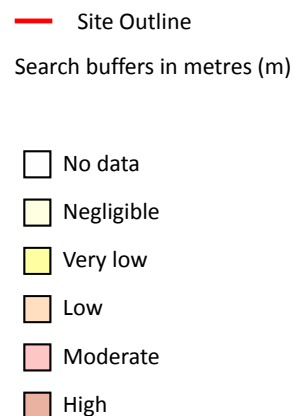
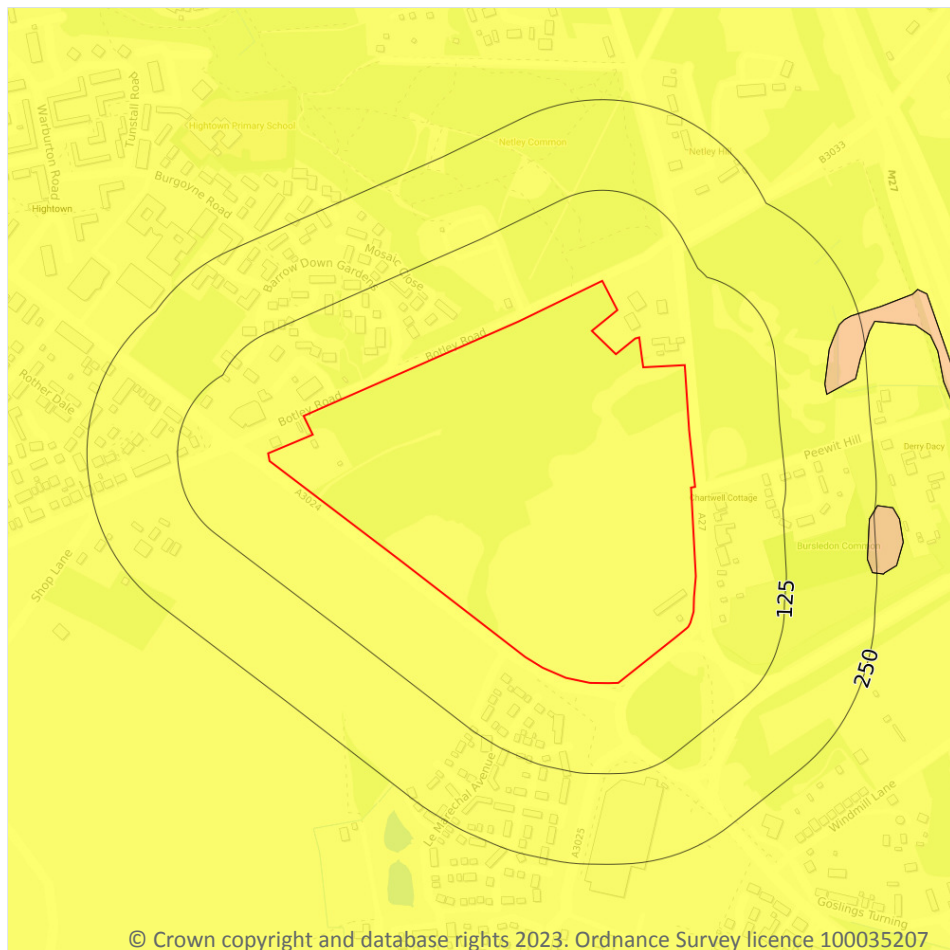
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 94 >](#)

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

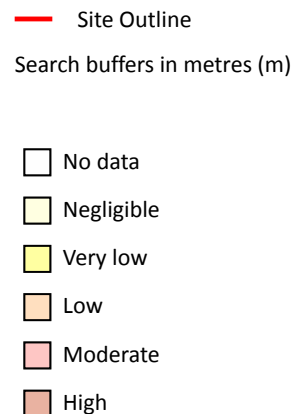
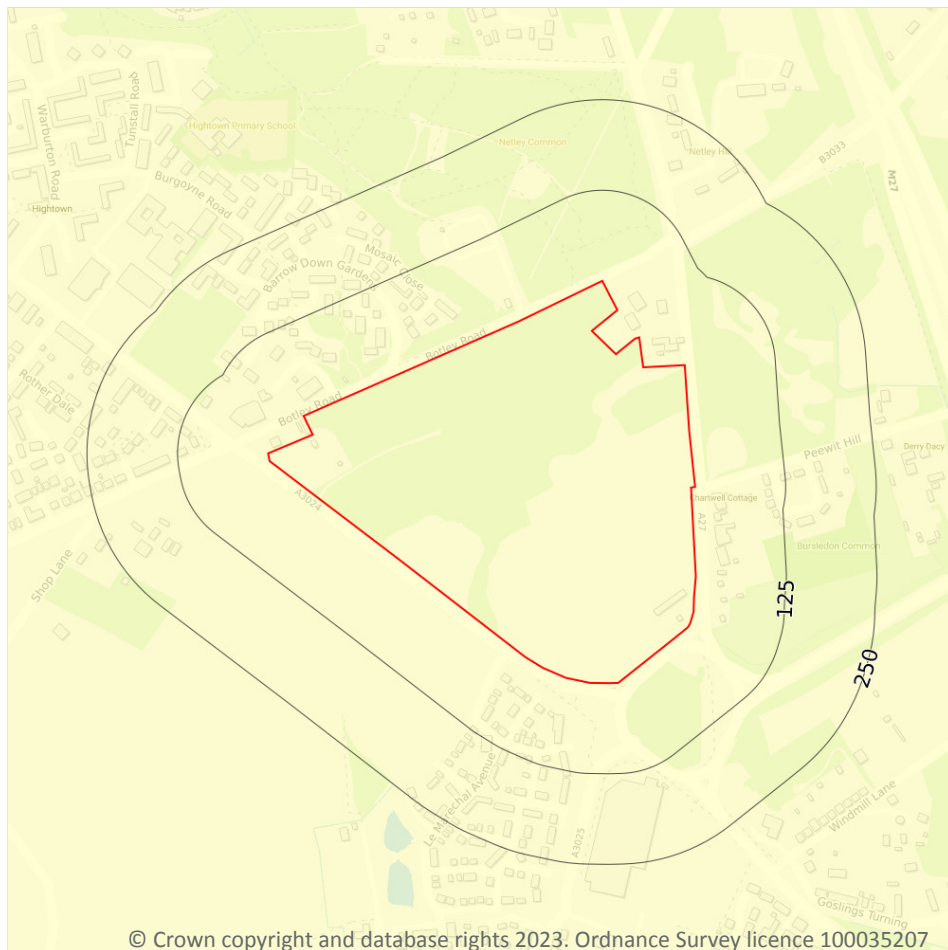
Features are displayed on the Natural ground subsidence - Landslides map on [page 95 >](#)

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 96](#)

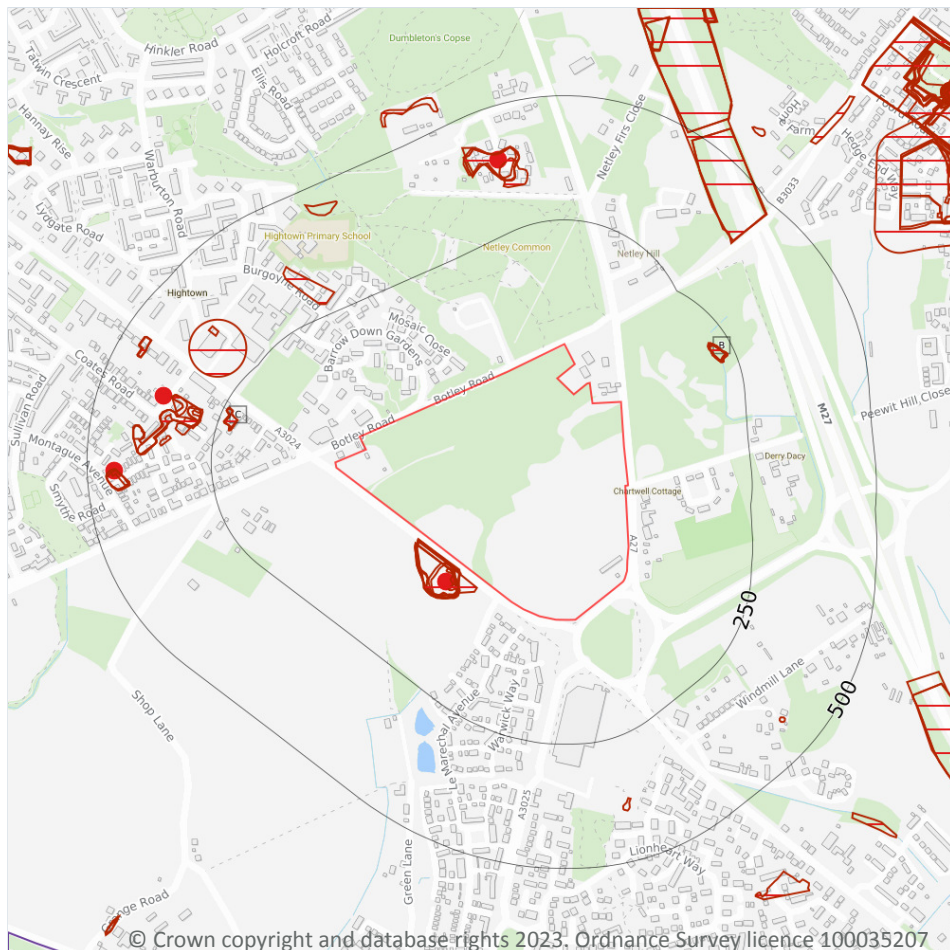
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

4

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on [page 98 >](#)



ID	Location	Details	Description
A	48m SW	Name: Windhover Gravel Pit Address: Bursledon, SOUTHAMPTON, Hampshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	371m W	Name: Netley Common Gravel Pit Address: Hightown, SOUTHAMPTON, Hampshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
F	393m N	Name: Dumbleton's Copse Gravel Pit Address: Thornhill, SOUTHAMPTON, Hampshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
H	446m W	Name: Netley Common Gravel Pit Address: Hightown, SOUTHAMPTON, Hampshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

21

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on [page 98 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	13m SW	Gravel Pit	1908	1:10560
A	15m SW	Gravel Pit	1908	1:10560
A	15m SW	Gravel Pit	1908	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
A	16m SW	Gravel Pit	1898	1:10560
A	17m SW	Old Gravel Pit	1942	1:10560
A	18m SW	Gravel Pit	1895	1:10560
A	21m SW	Unspecified Pit	1868	1:10560
A	23m SW	Old Gravel Pit	1957	1:10560
A	24m SW	Old Gravel Pit	1957	1:10560
A	24m SW	Old Gravel Pit	1957	1:10560
B	206m NE	Pond	1957	1:10560
B	207m NE	Pond	1908	1:10560
B	207m NE	Pond	1908	1:10560
B	207m NE	Pond	1908	1:10560
B	208m NE	Pond	1993	1:10000
B	208m NE	Pond	1967	1:10560
B	208m NE	Pond	1987	1:10000
B	208m NE	Pond	1977	1:10000
C	214m W	Pond	1908	1:10560
C	215m W	Pond	1908	1:10560
C	215m W	Pond	1908	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This is data is sourced from Ordnance Survey/Groundsure.



18.4 Underground mining extents

Records within 500m**0**

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m**0**

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m**0**

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site**0**

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m**0**

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the



Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0
-----------------	---

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

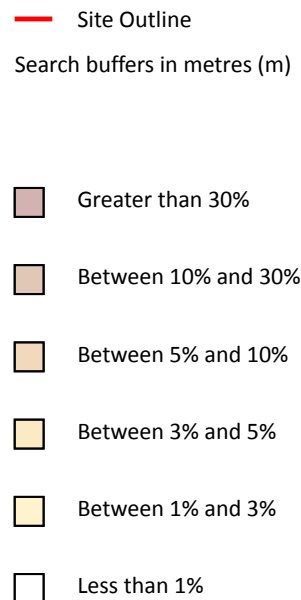
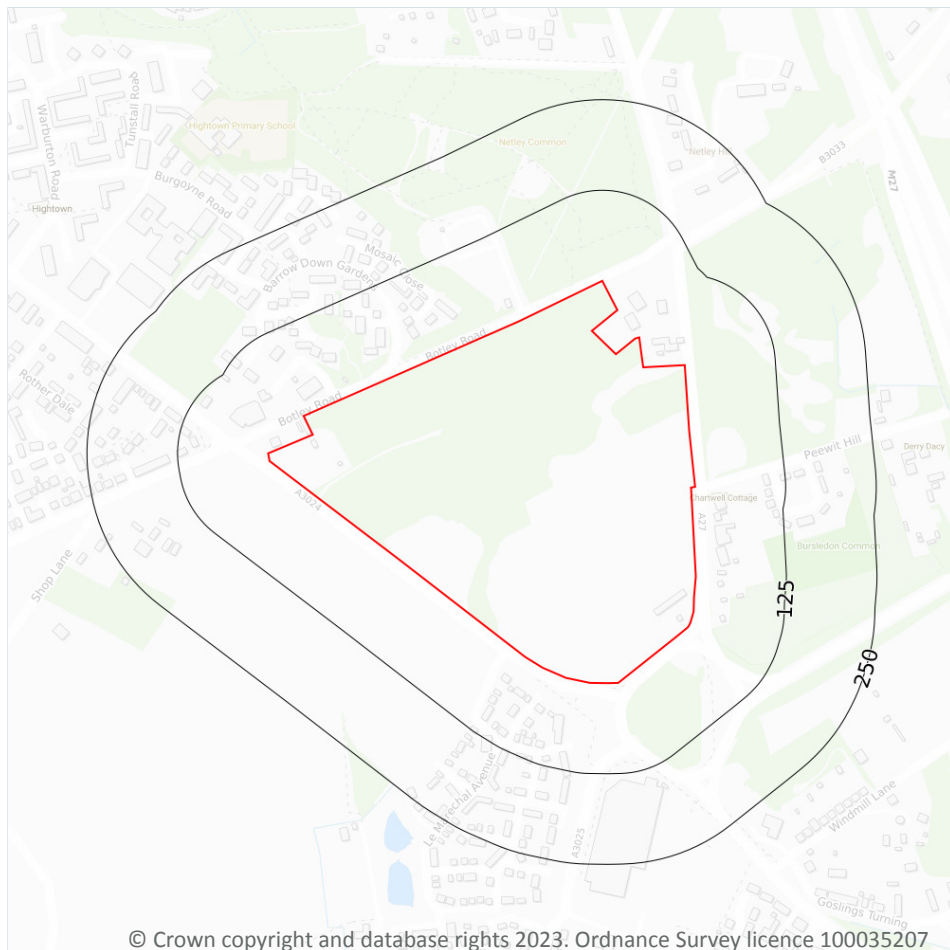
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



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20.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 106 >](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None



This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

15

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
12m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
12m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
14m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
14m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
17m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
18m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
36m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
40m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
45m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.



21.2 BGS Estimated Urban Soil Chemistry

Records within 50m**0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m**0**

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m**0**

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m**0**

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m**0**

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m**0**

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



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WEST END ROAD, BURSLEDON, SO31 8BN

Professional opinion

Site plan



Search results

Not in a radon affected area

Local levels of radon are considered normal.

However, if an underground room makes up part of the accommodation, the property should be tested regardless of radon Affected Area status.

Useful contacts

UK Health Security Agency (UKHSA) / UKRadon
Radon Survey
Chemical, Radiation and Environmental Hazards
Chilton, Didcot
Oxon
OX11 0RQ
<https://www.ukradon.org/> ↗

UK Radon Association
<http://www.radonassociation.co.uk/> ↗

Overview of findings and recommendations

Radon

No further action is recommended based on the identified local levels of radon.

However, all basement and cellar areas are considered at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of radon Affected Area status.

It should be noted that although this report uses the best available data this assessment is an estimation and is not based upon measurements. It is possible to find high radon levels in properties anywhere in the country, even in lower risk areas, as radon is everywhere in varying concentrations.



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- normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- liaise, at your request, with anyone acting formally on your behalf

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Operations Director, Groundsure Ltd, Nile House, Nile Street, Brighton, BN1 1HW. Tel: 01273 257 755. Email: info@groundsure.com

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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: County Series

Map date: 1868-1869

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

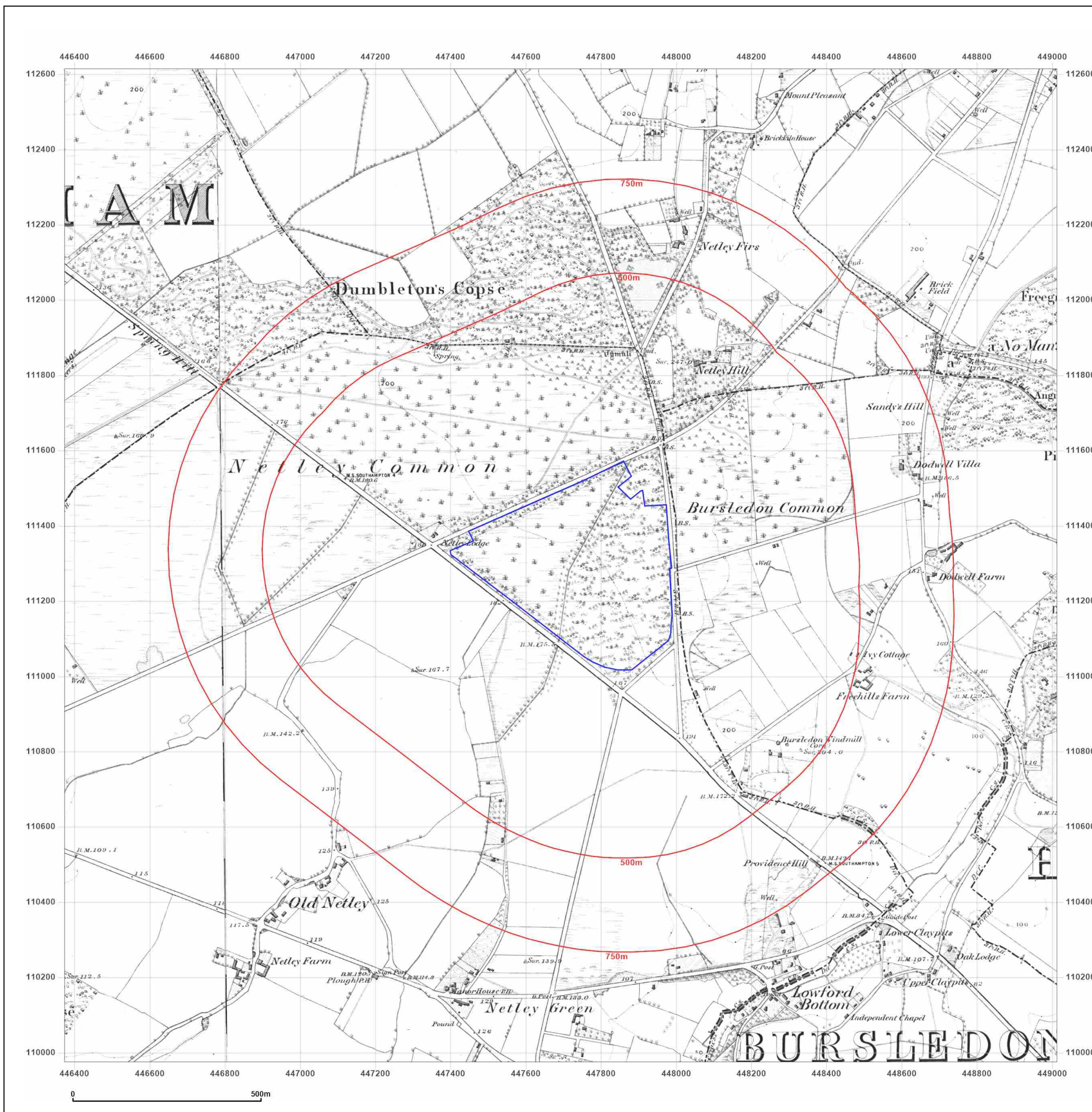


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Production date: 15 November 2023

Map legend available at:
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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: County Series

Map date: 1895-1896

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1868
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

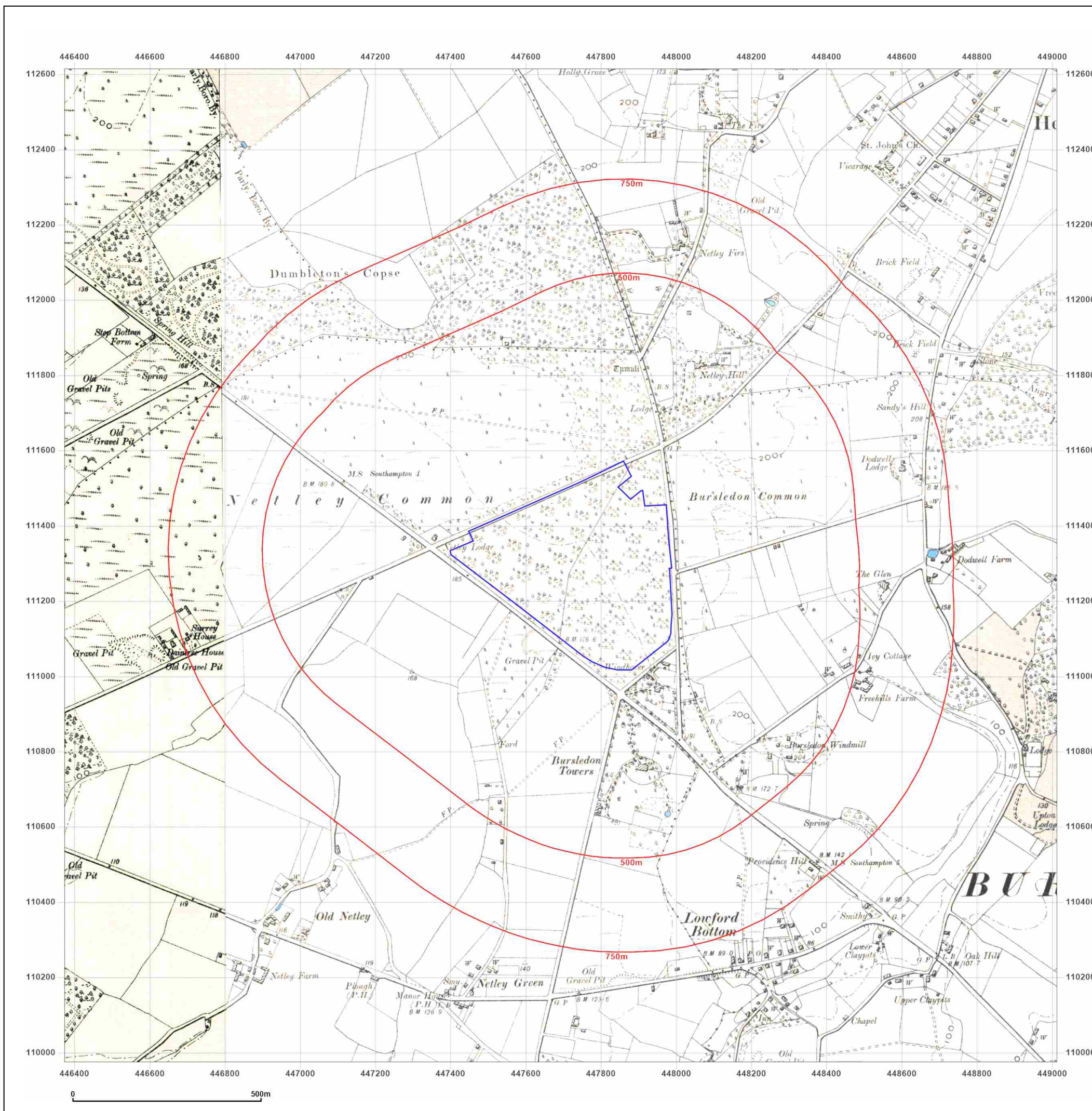


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: County Series

Map date: 1896-1898

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1896
Edition N/A
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Surveyed 1867
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

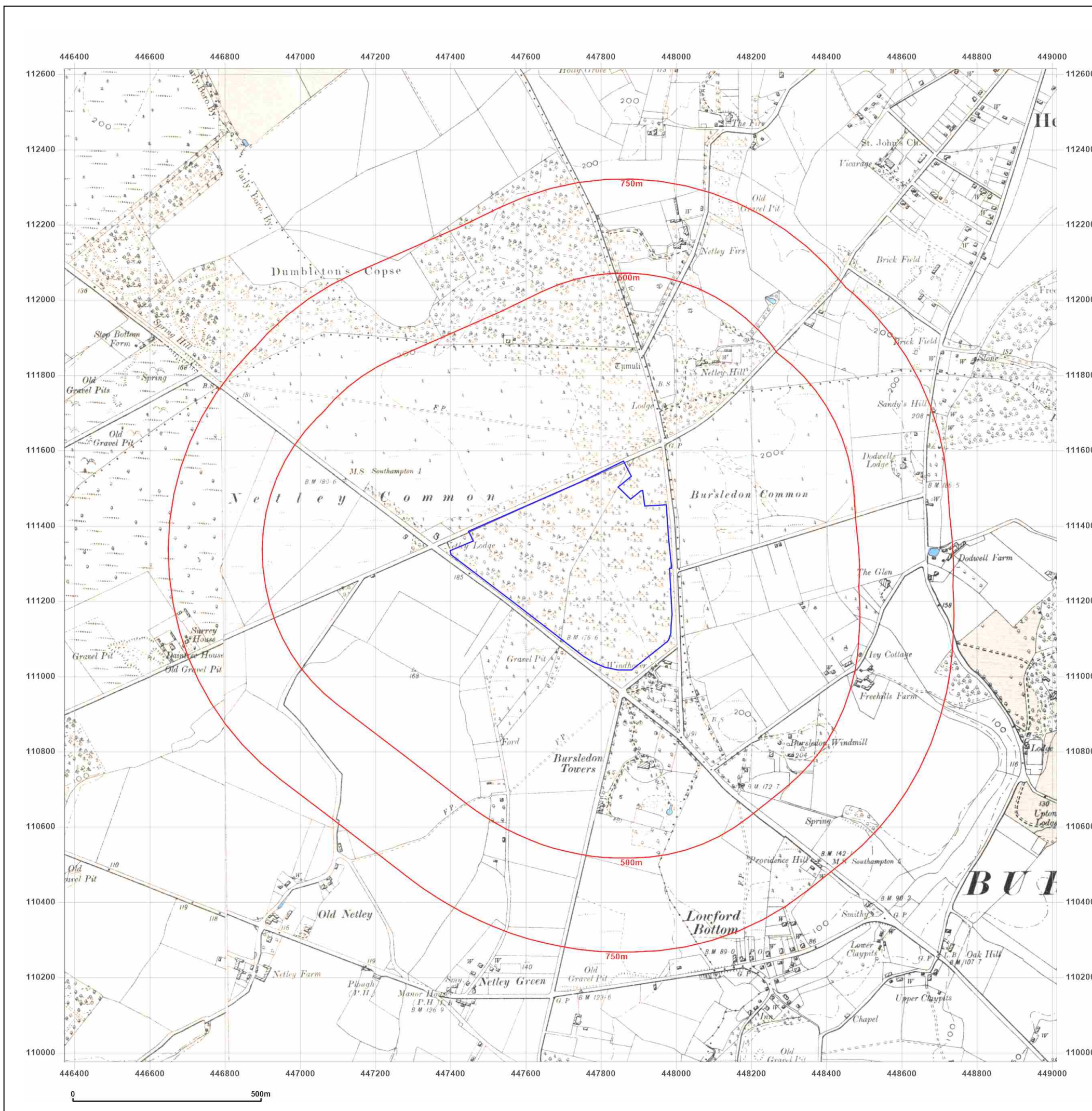


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: County Series

Map date: 1908

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1867
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1866
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

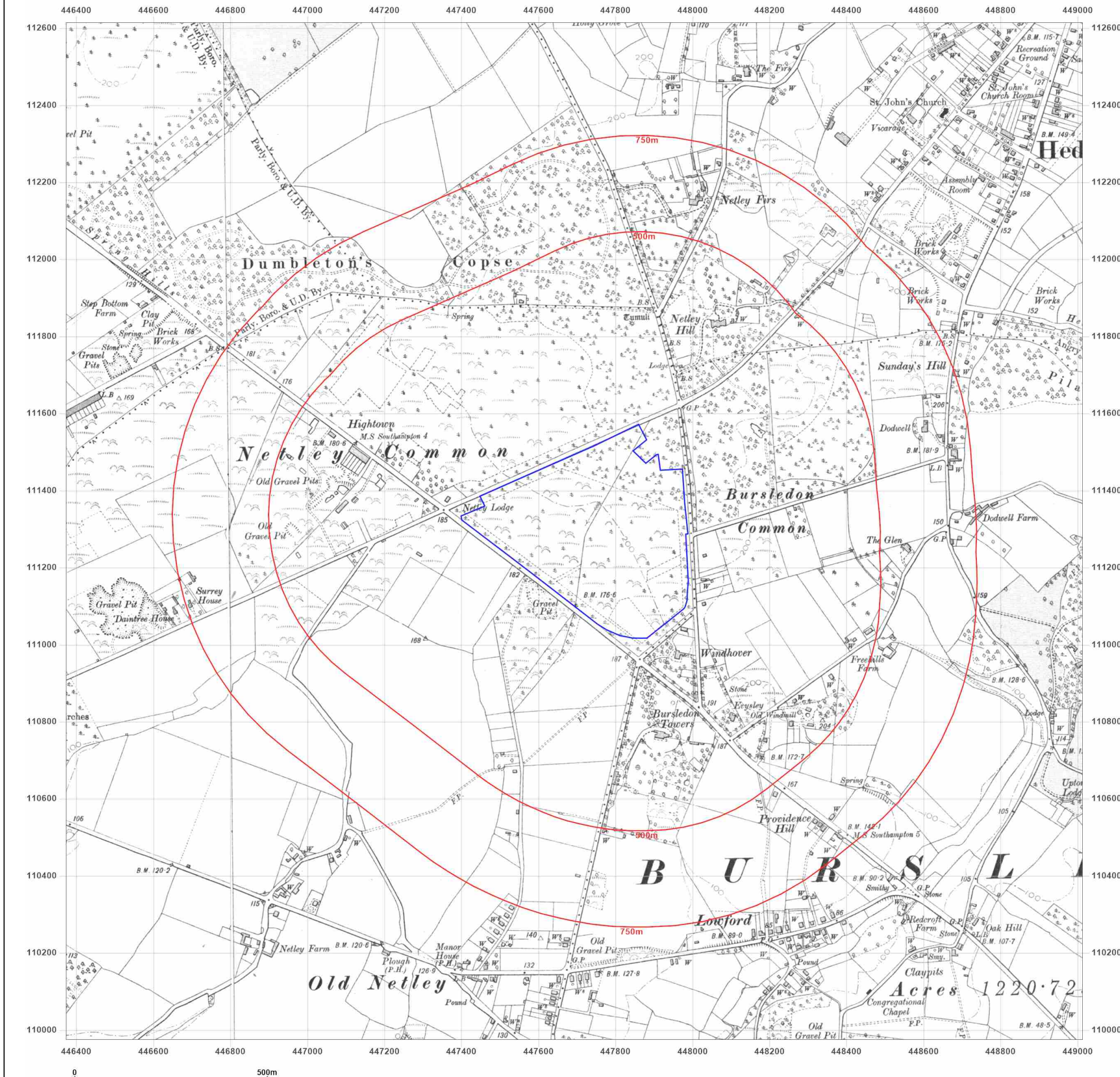


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: County Series

Map date: 1908

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1866
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

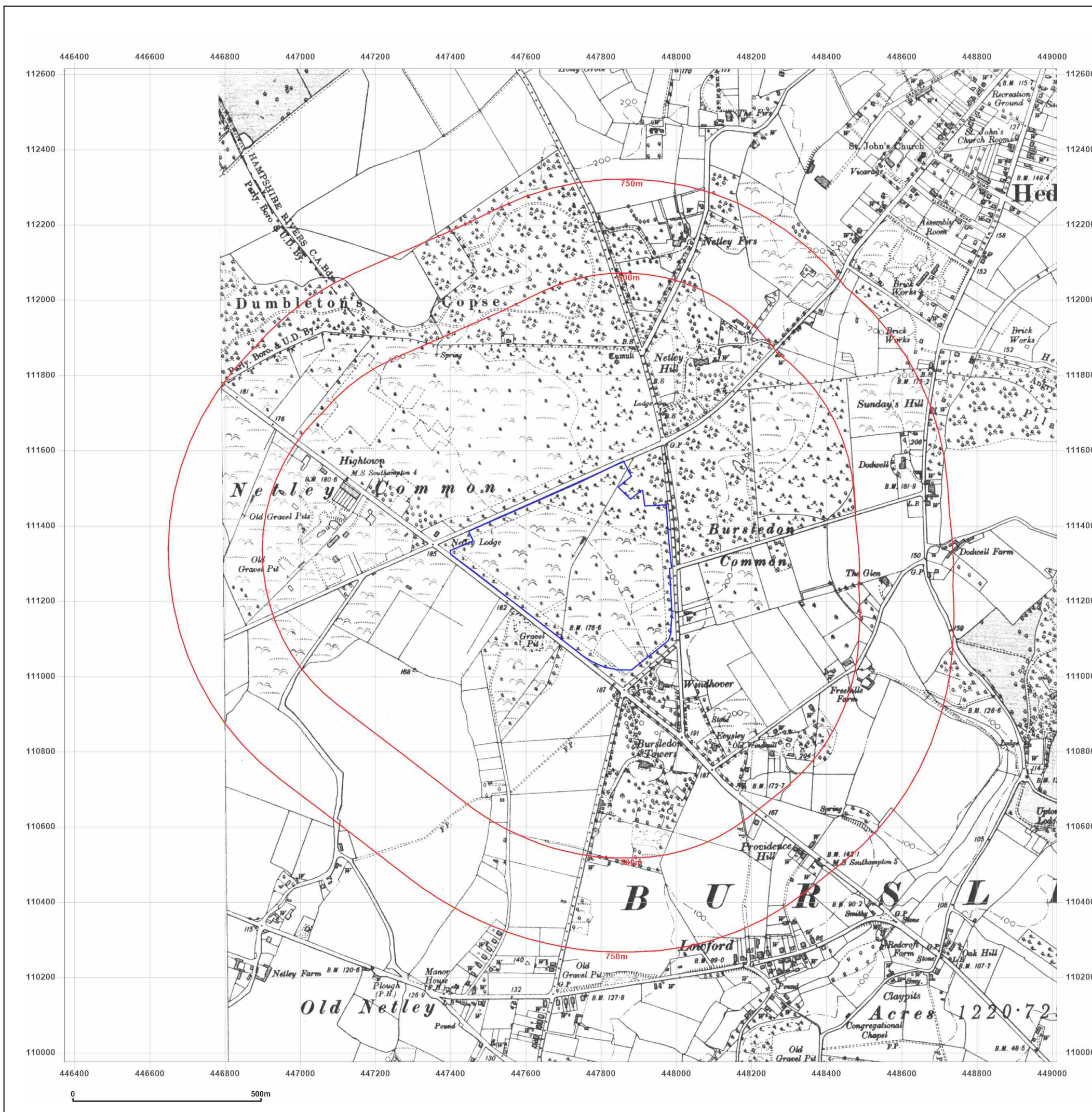


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: County Series

Map date: 1938-1942

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1867
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Surveyed 1866
Revised 1942
Edition N/A
Copyright N/A
Levelled N/A

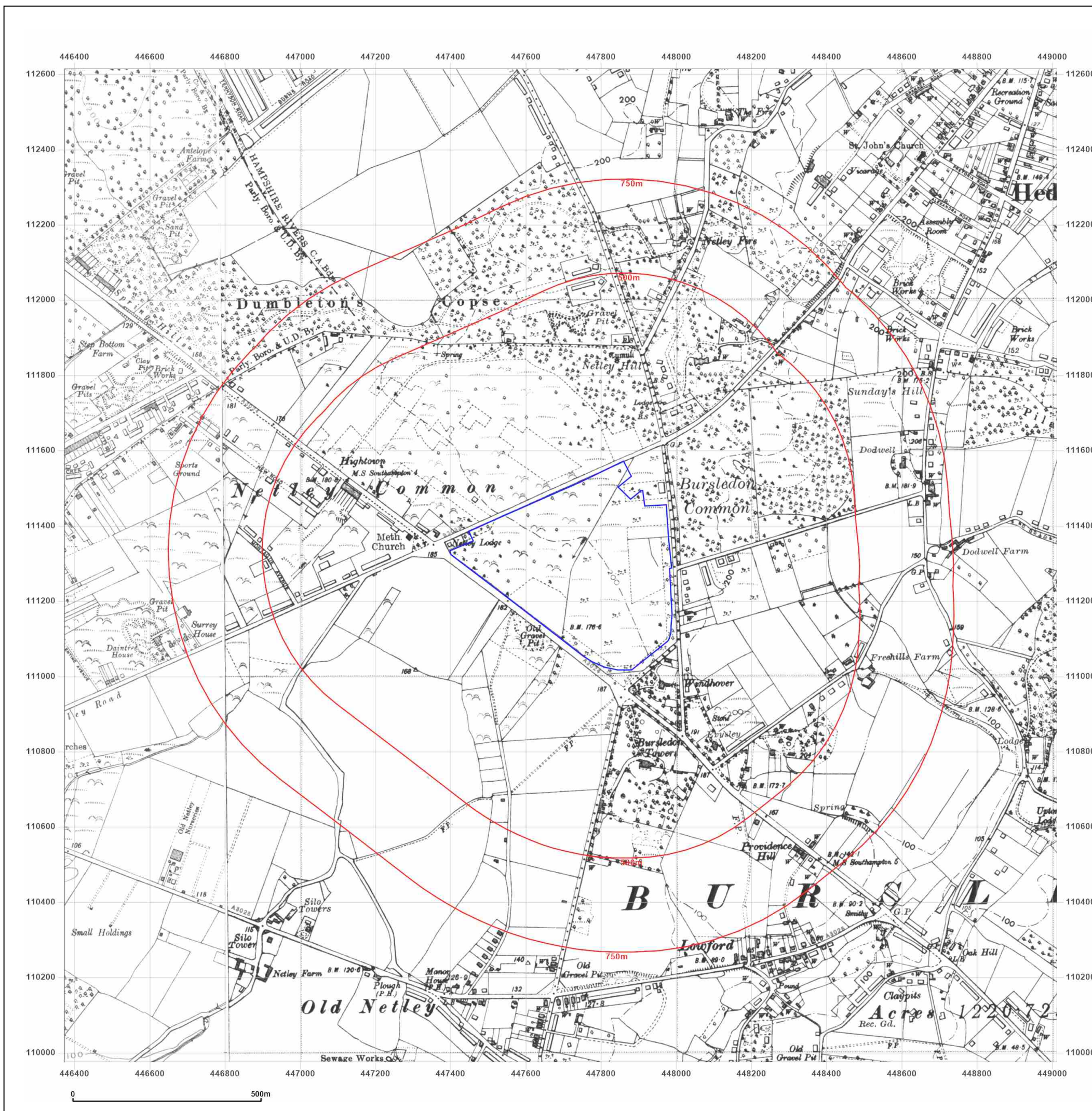


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: Provisional

Map date: 1957

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1867
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

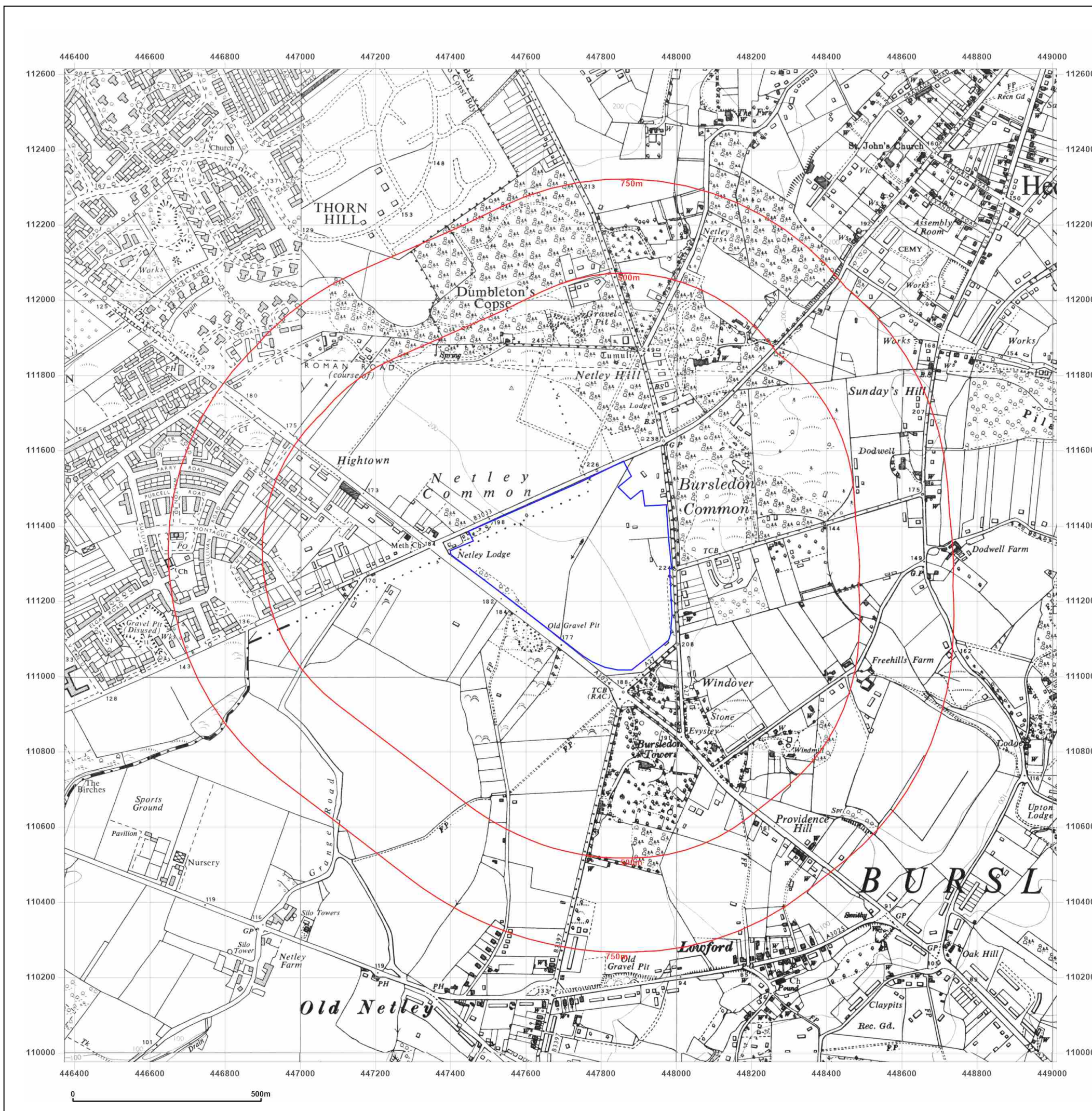


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: Provisional

Map date: 1957

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1867
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

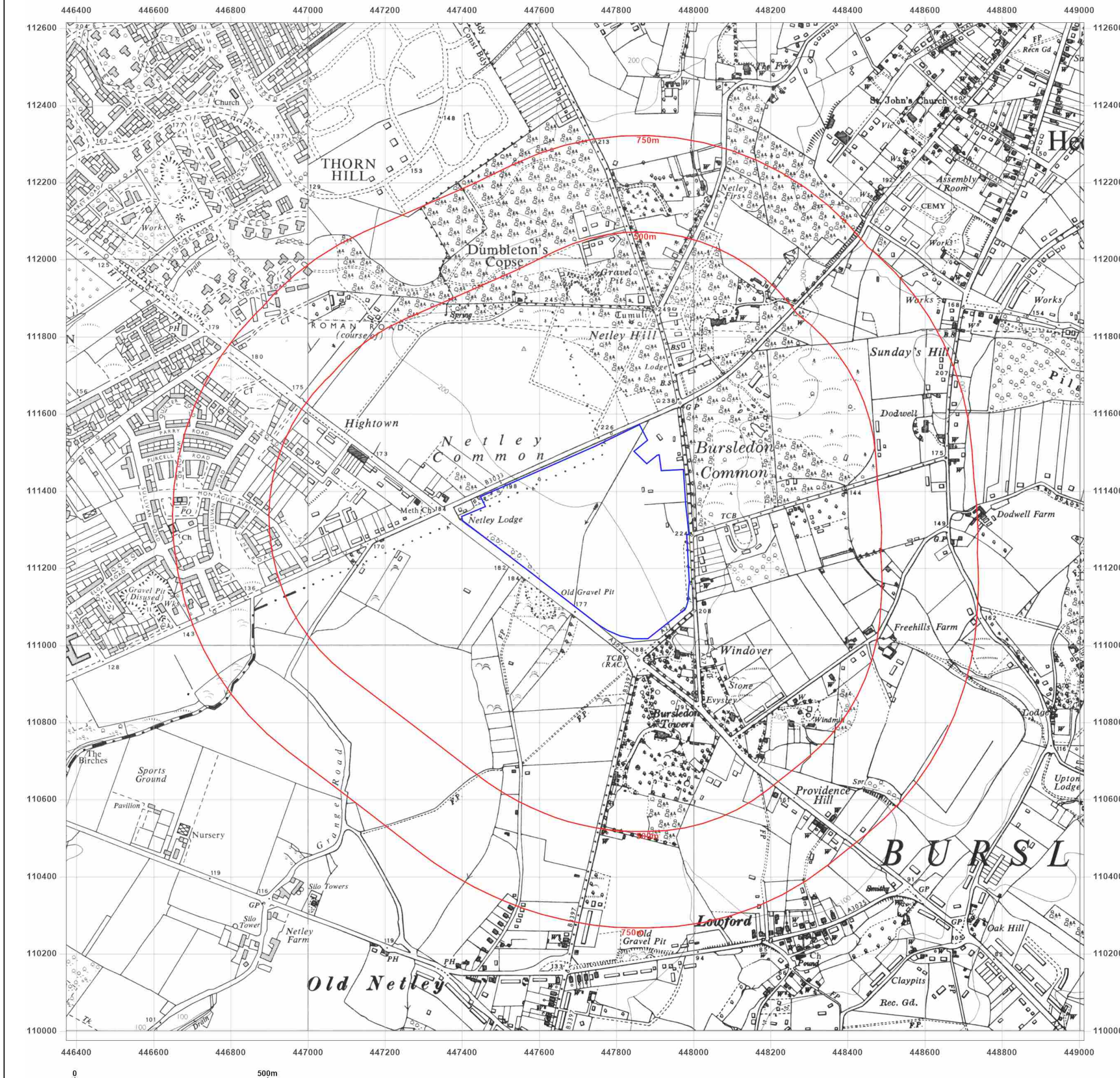


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: Provisional

Map date: 1967

Scale: 1:10,560

Printed at: 1:10,560



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

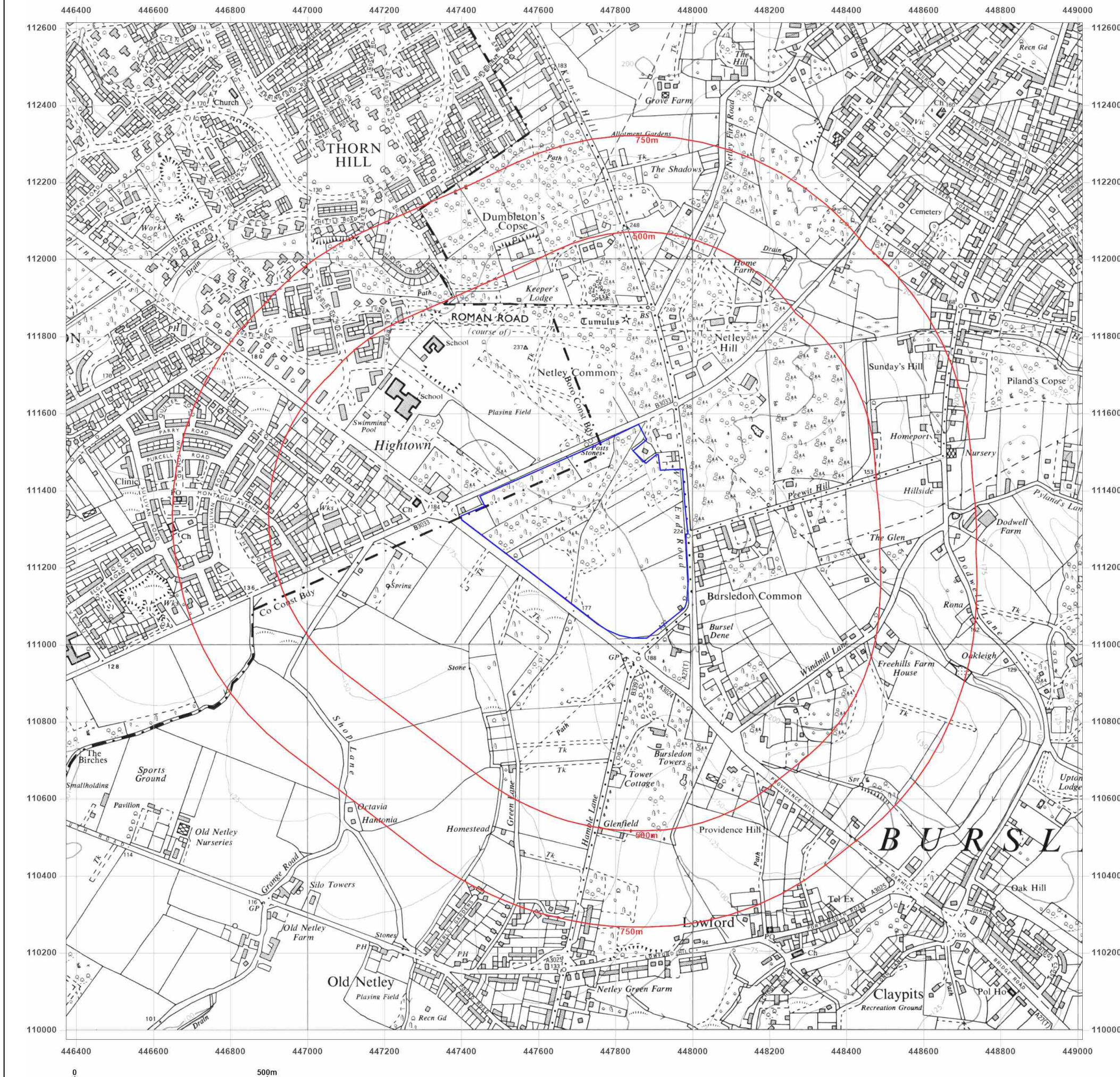


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: National Grid

Map date: 1978

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1976
Revised 1978
Edition N/A
Copyright 1978
Levelled 1973

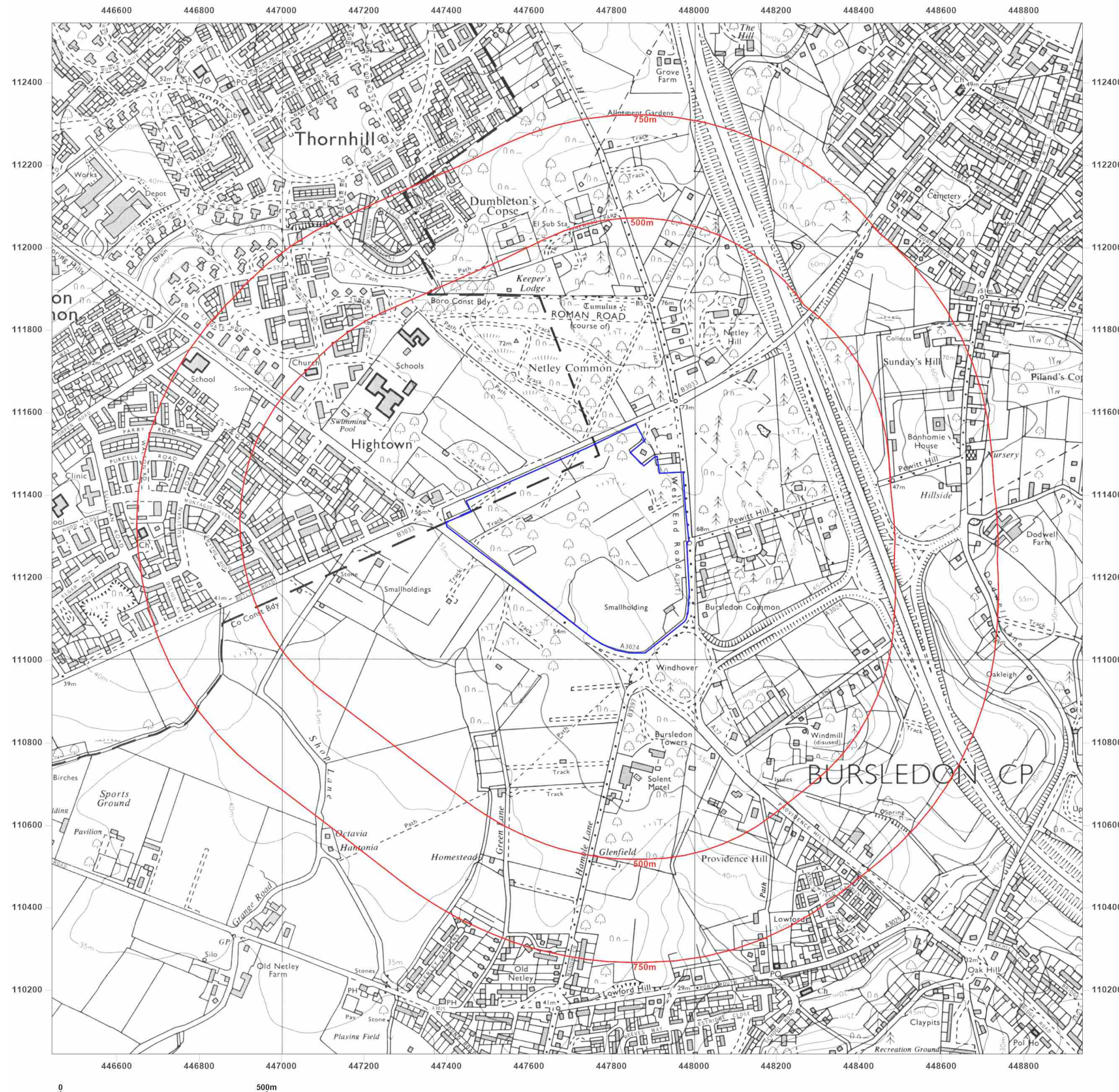


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: National Grid

Map date: 1987

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1985
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

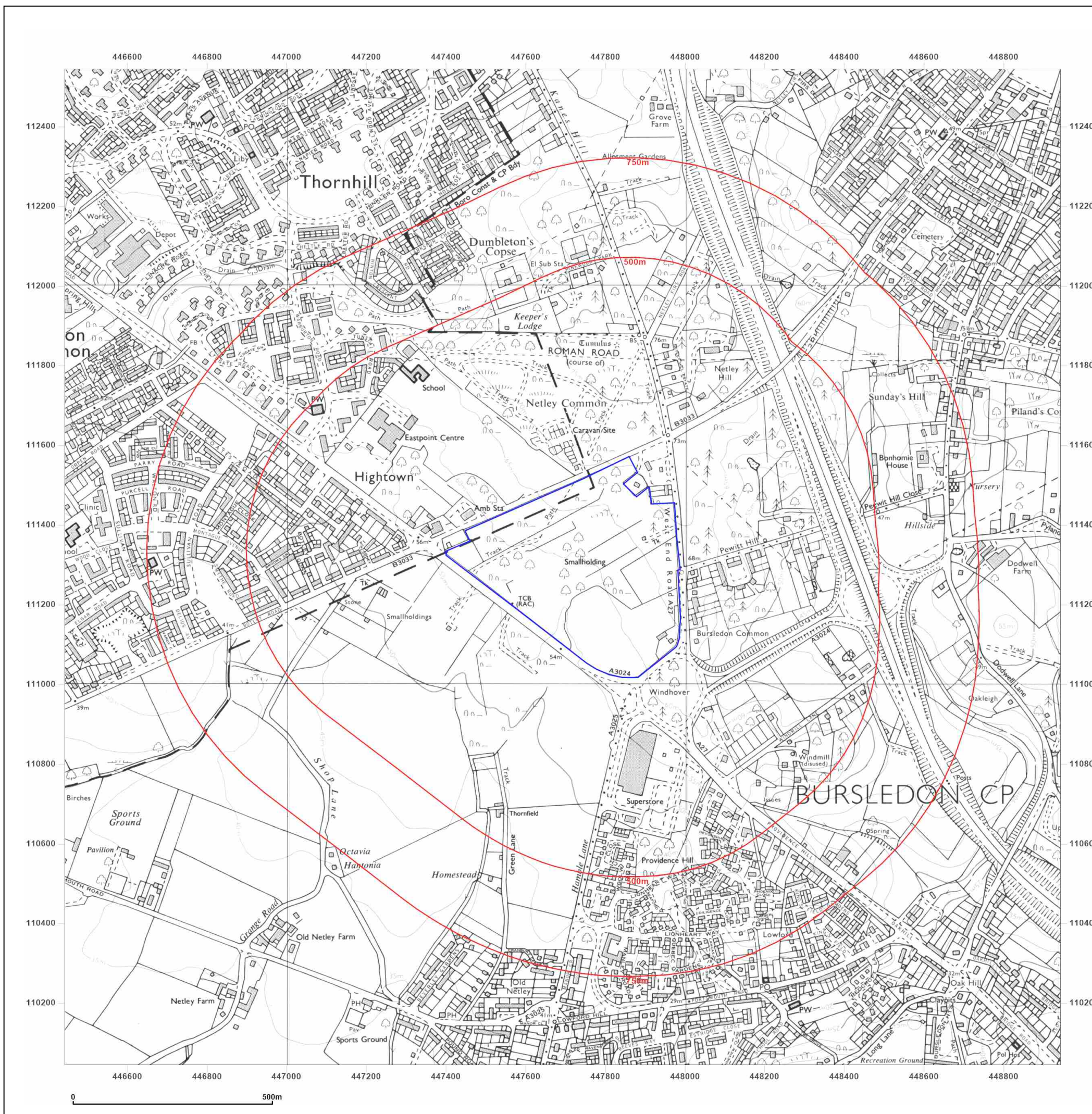


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: National Grid

Map date: 1993

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1991
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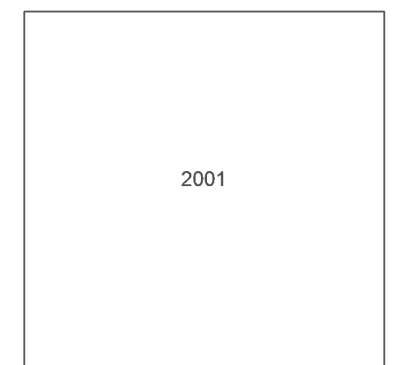
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Grid Ref: 447692, 111294

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

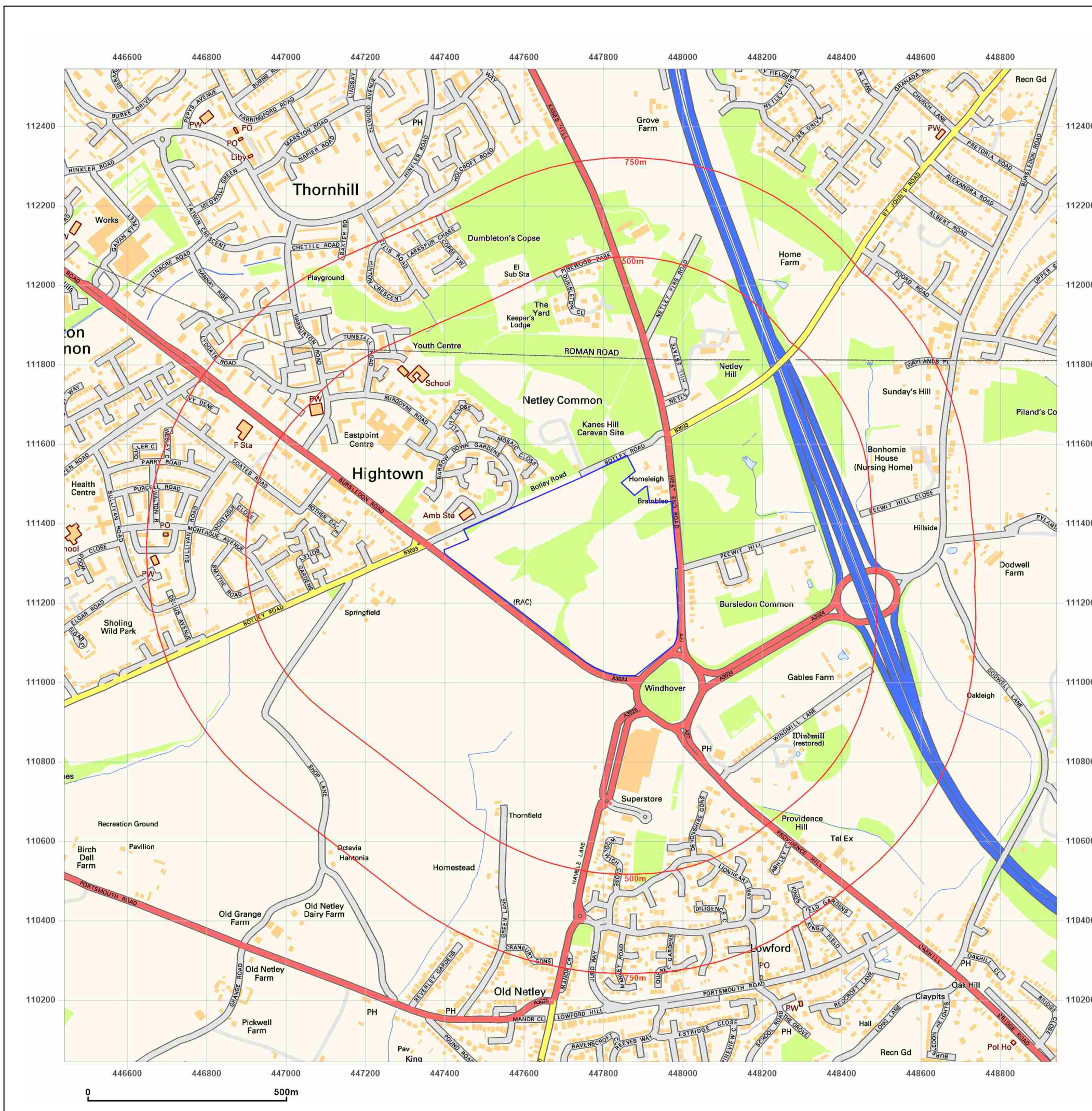


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

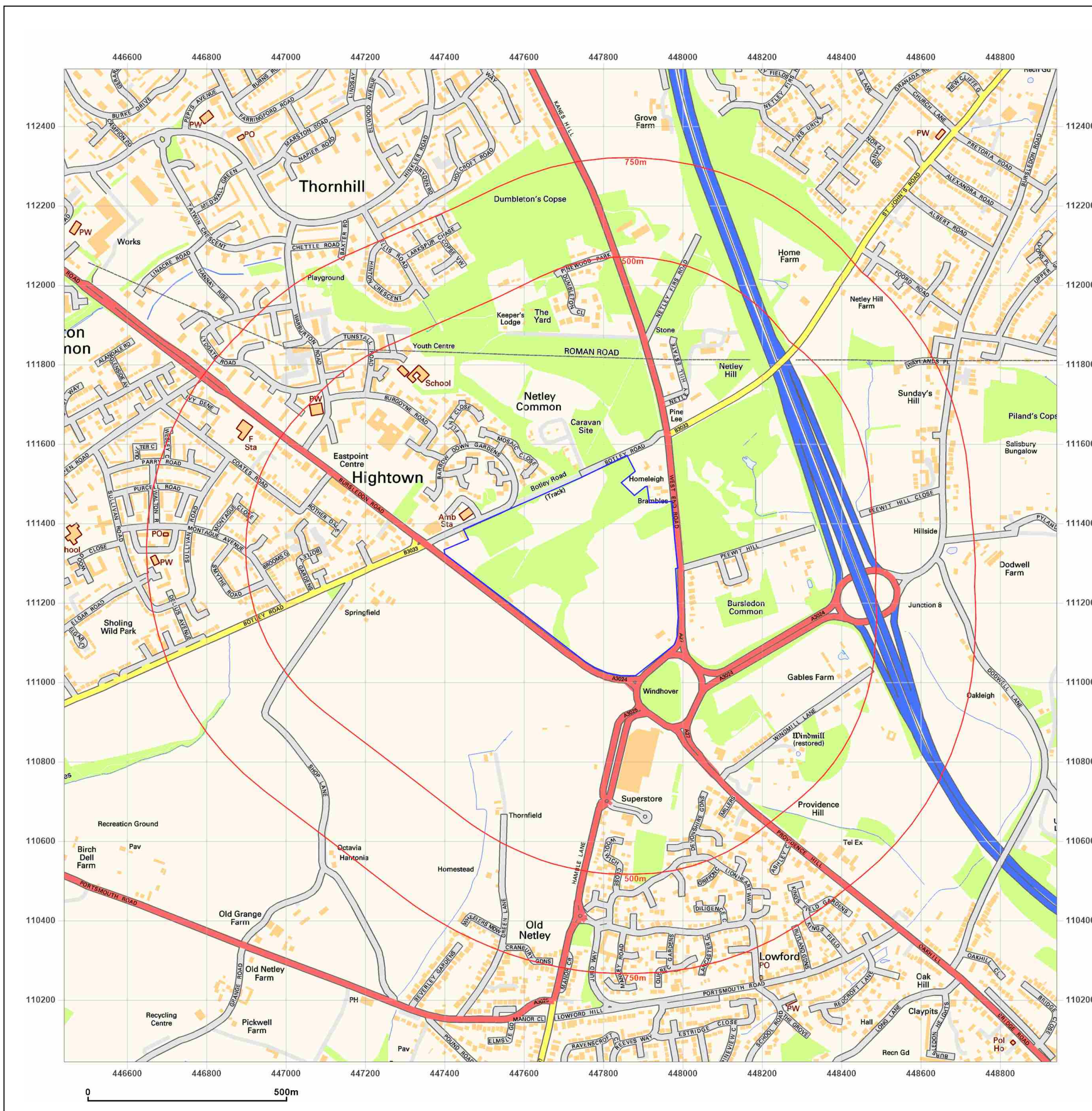


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82
Grid Ref: 447692, 111294

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000



2023

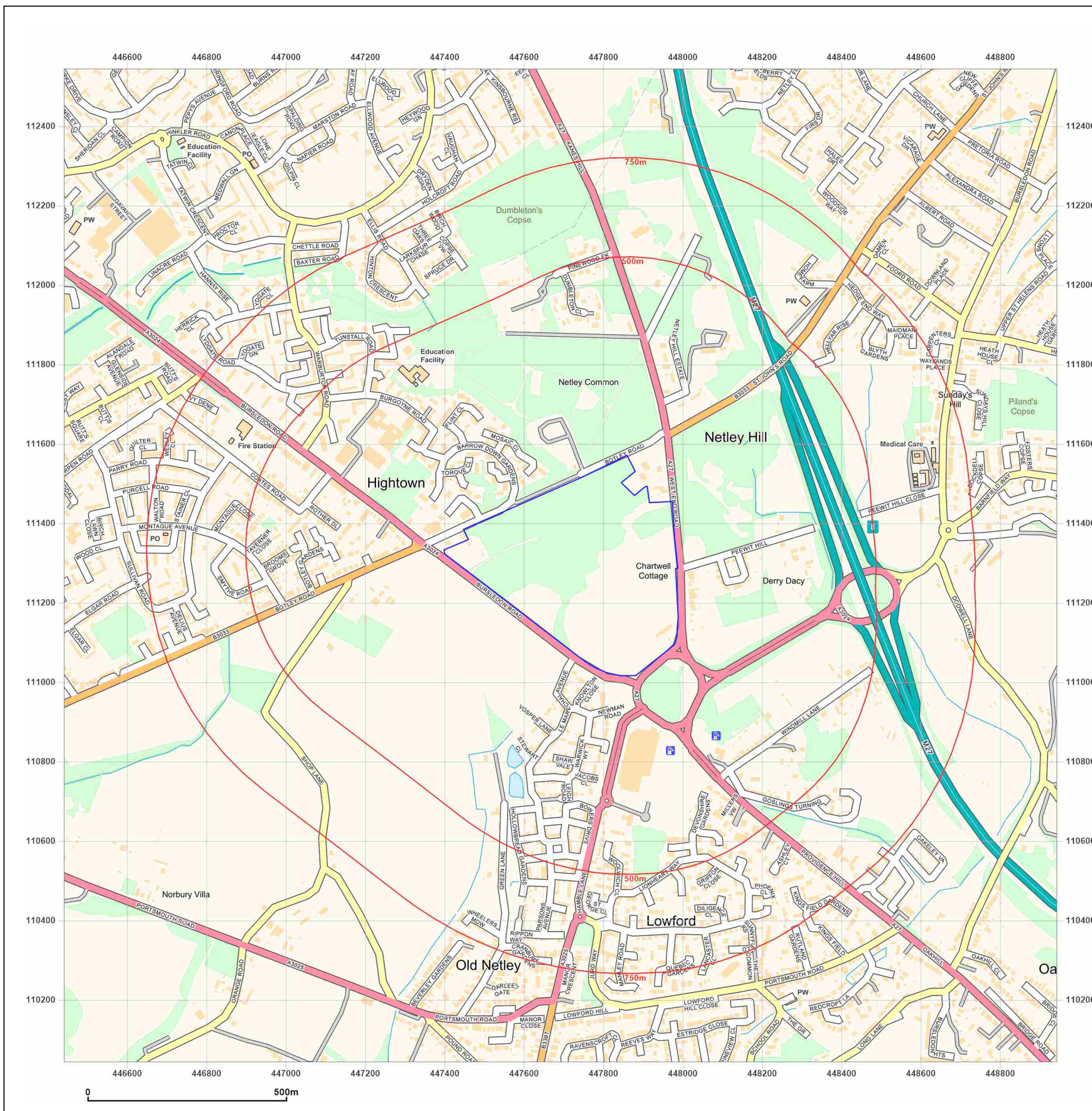


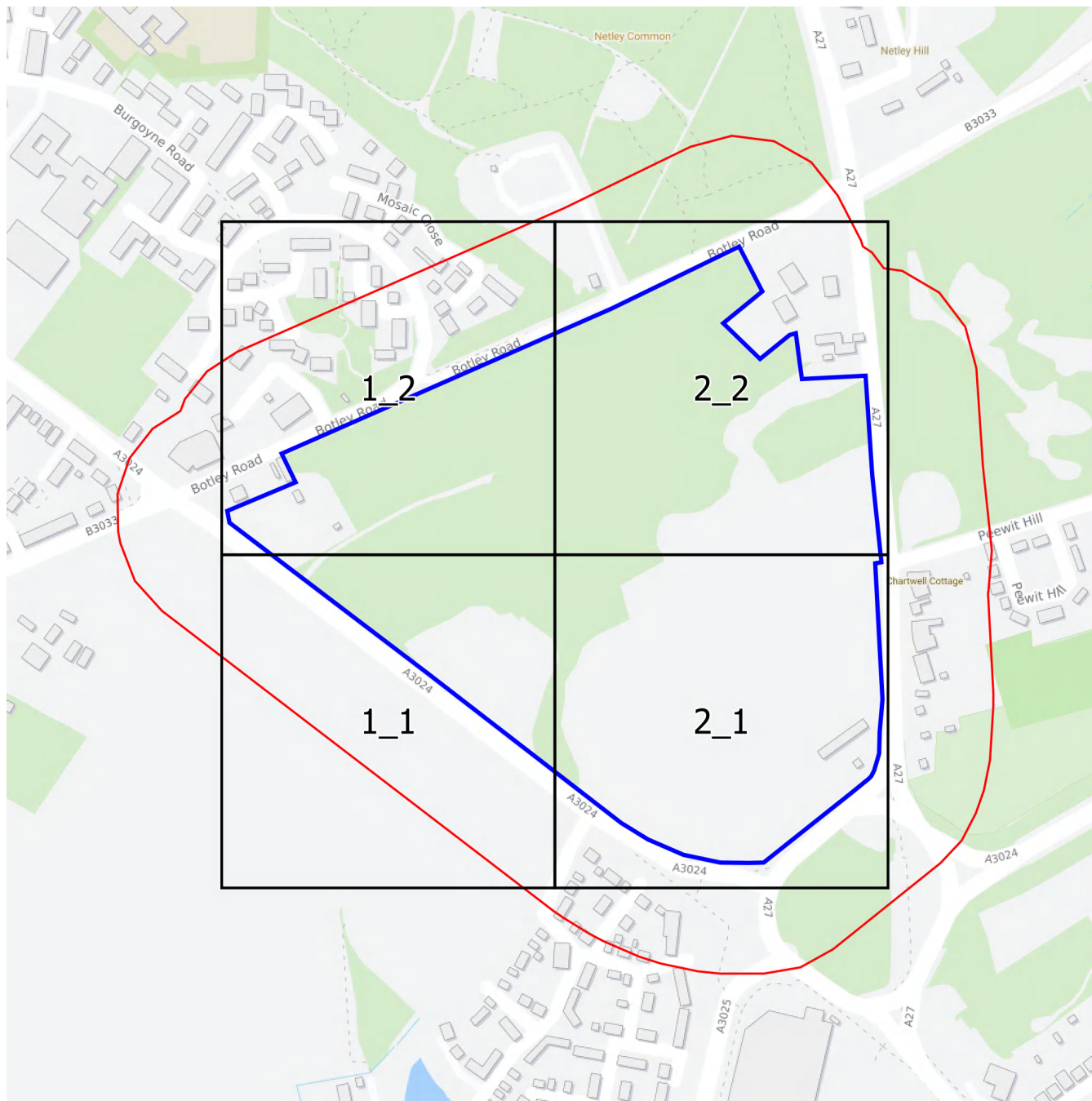
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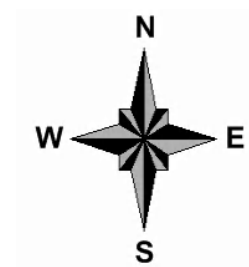
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Groundsure
INSIGHTS

Landline Scale Grid Index



Site Details:

WEST END ROAD, BURSLEDON,
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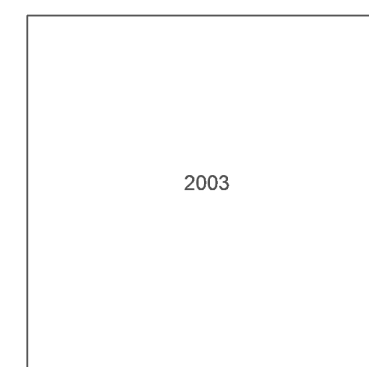
Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_Landline_1_1
Grid Ref: 447542, 111144

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

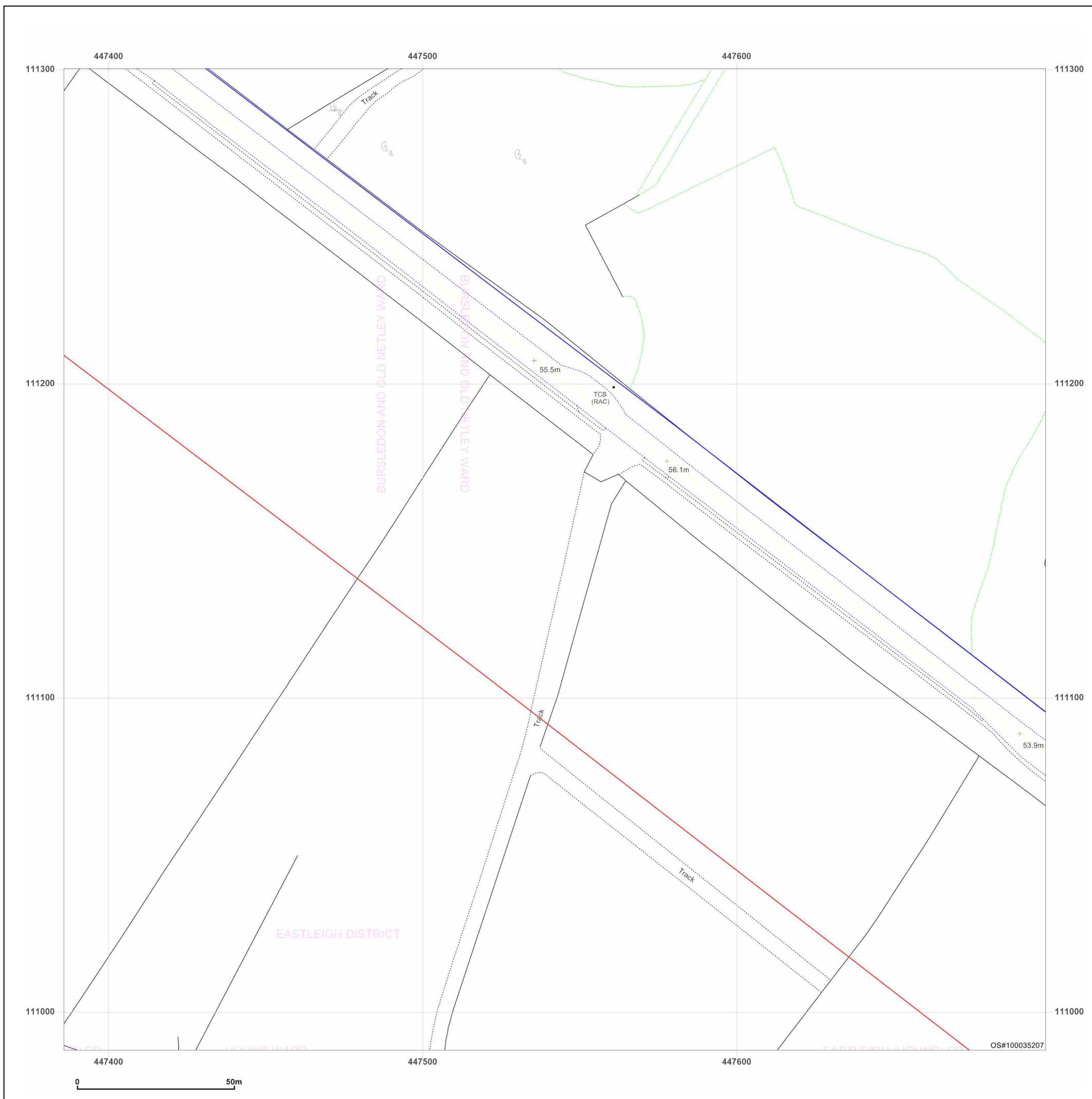


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SO31 8BN

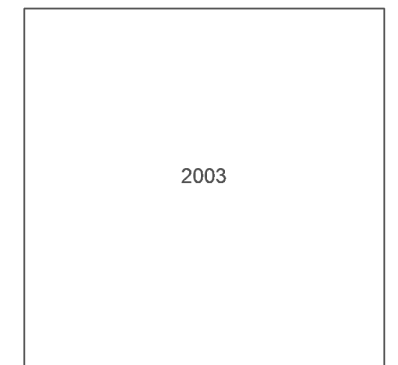
Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_Landline_1_2
Grid Ref: 447542, 111444

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_Landline_2_1
Grid Ref: 447842, 111144

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003



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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_Landline_2_2
Grid Ref: 447842, 111444

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003



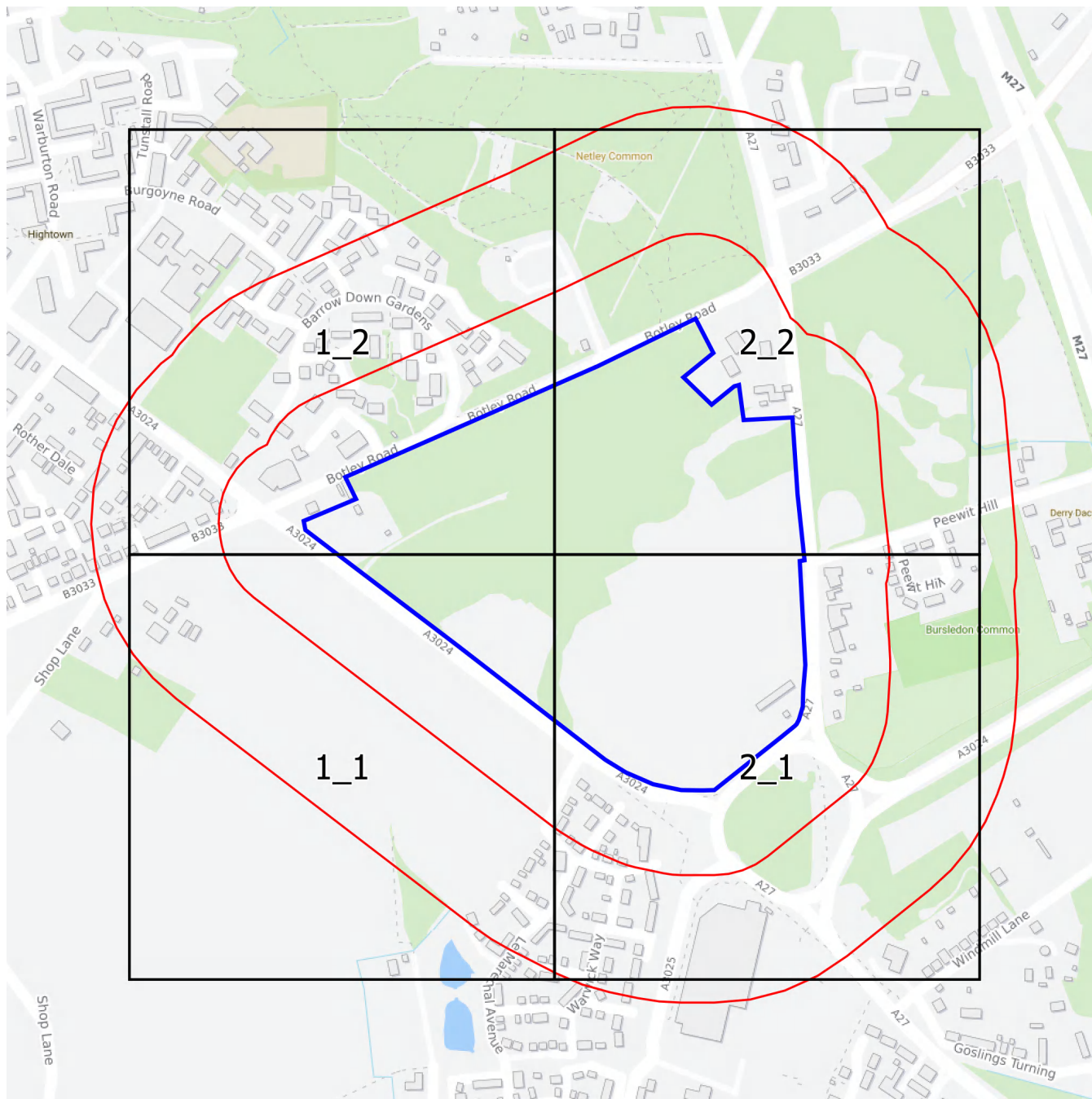
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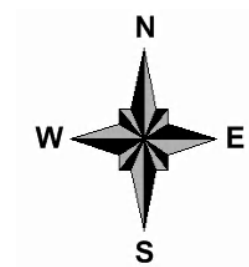
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Groundsure
INSIGHTS

1:1,250 Scale Grid Index



Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_1_1
Grid Ref: 447442, 111044

Map Name: National Grid

Map date: 1970

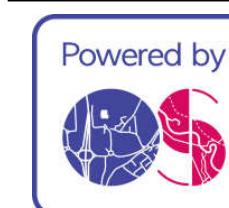
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Printed at: 1:2,000



Surveyed 1969
Revised 1969
Edition N/A
Copyright 1970
Levelled 1959

Surveyed 1969
Revised 1969
Edition N/A
Copyright 1970
Levelled 1959

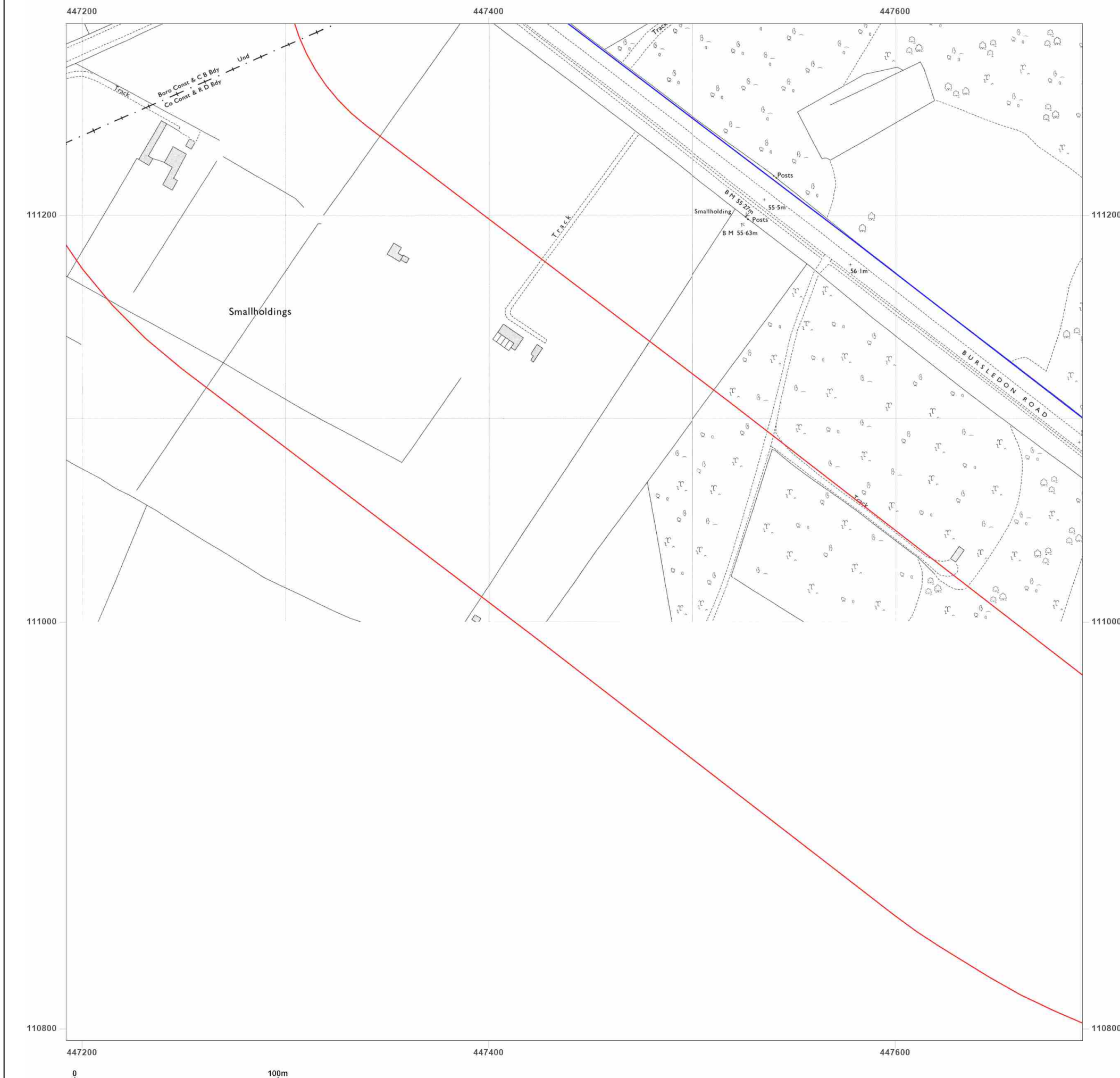


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_1_1
Grid Ref: 447442, 111044

Map Name: National Grid

Map date: 1974

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1974
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1974
Levelled N/A

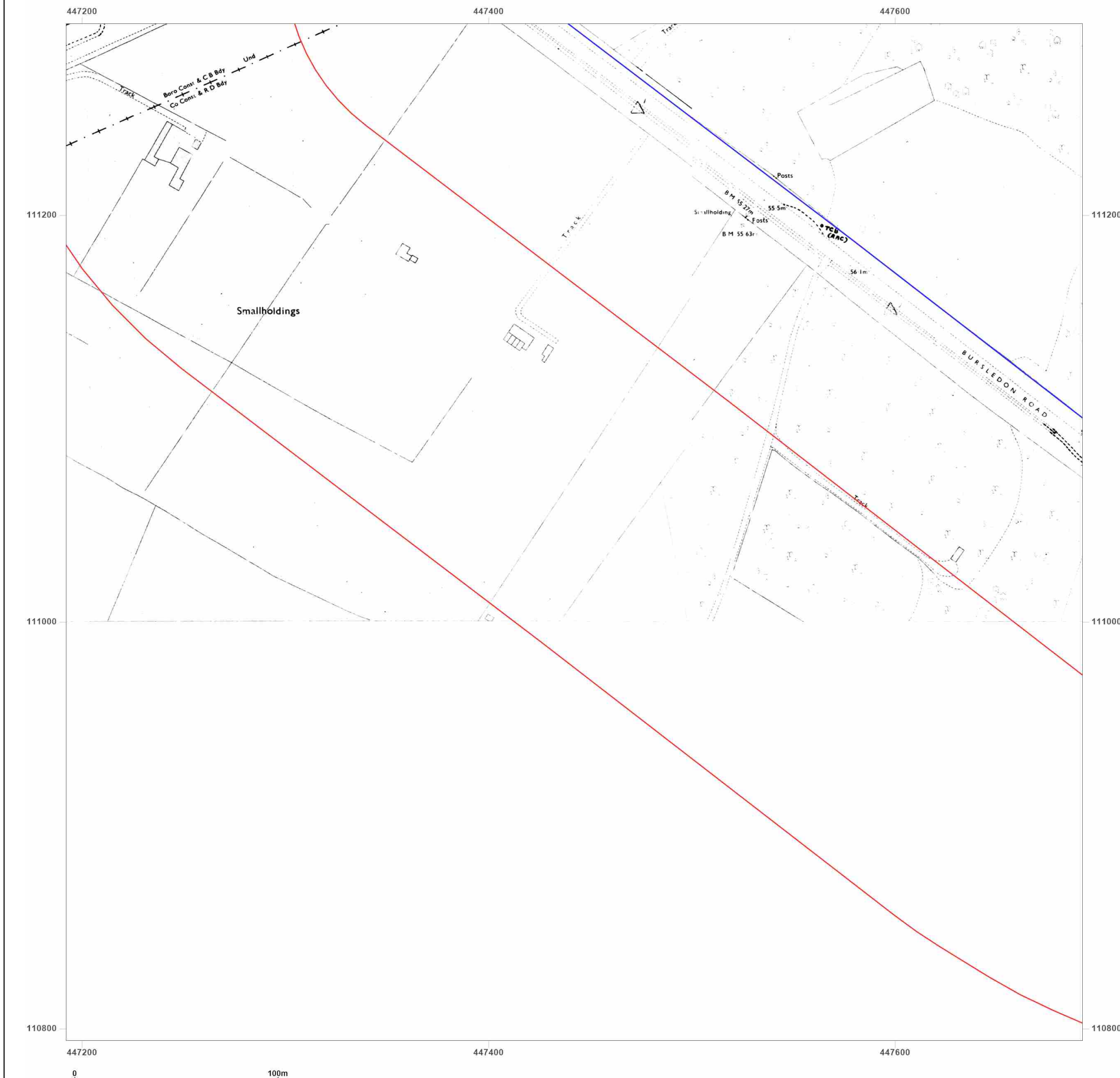


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_1_1
Grid Ref: 447442, 111044

Map Name: National Grid

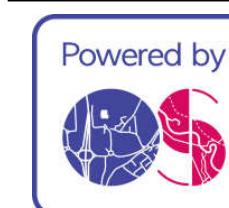
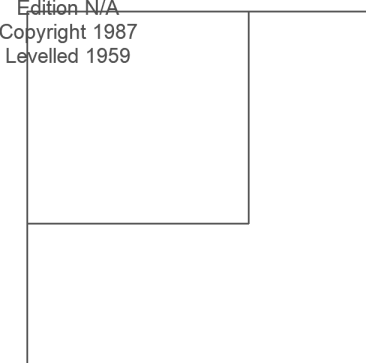
Map date: 1987

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1959
Revised 1987
Edition N/A
Copyright 1987
Levelled 1959

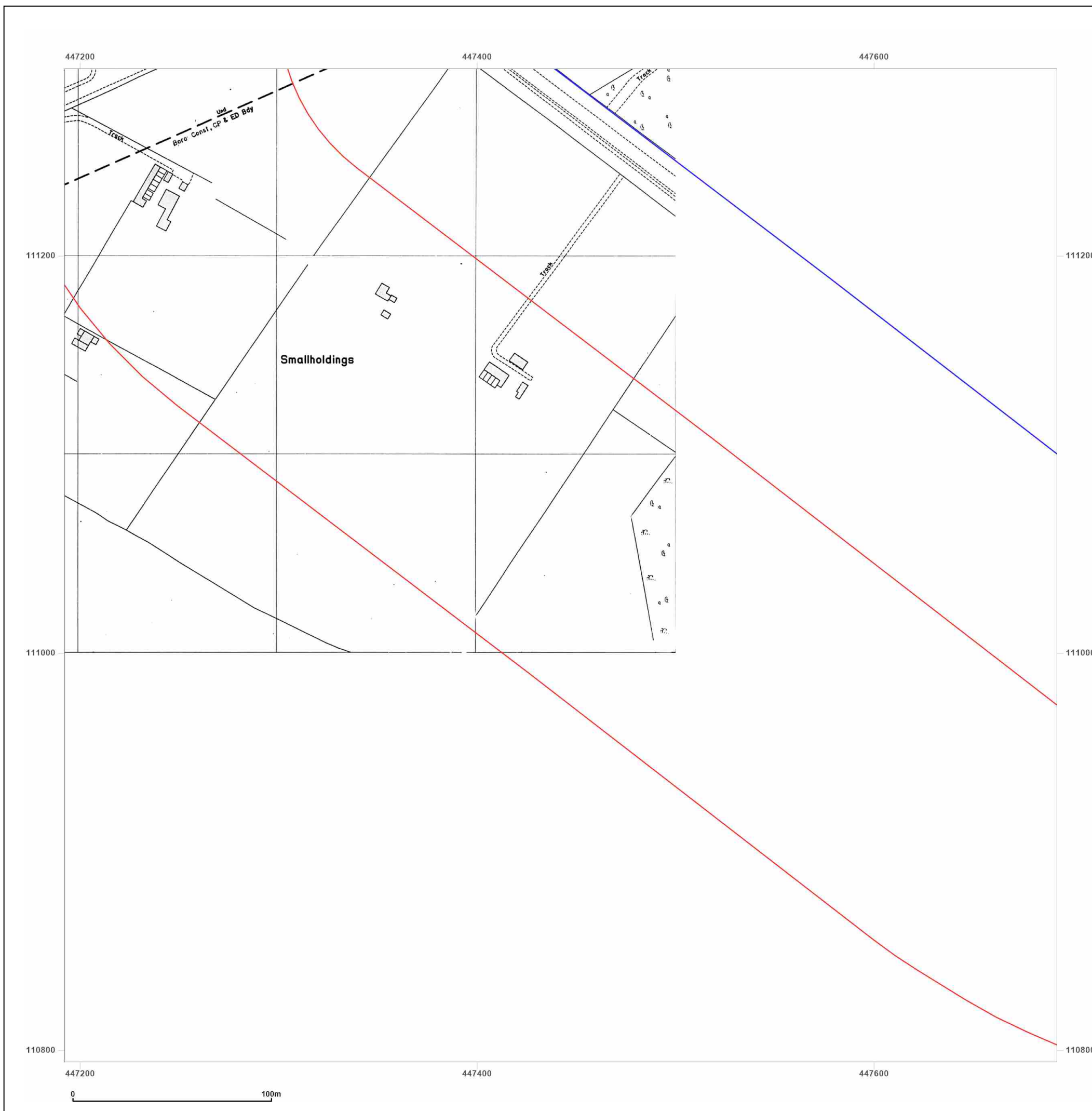


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_1_1
Grid Ref: 447442, 111044

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
Copyright 1993
Levelled N/A

Surveyed 1993
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Edition N/A
Copyright 1993
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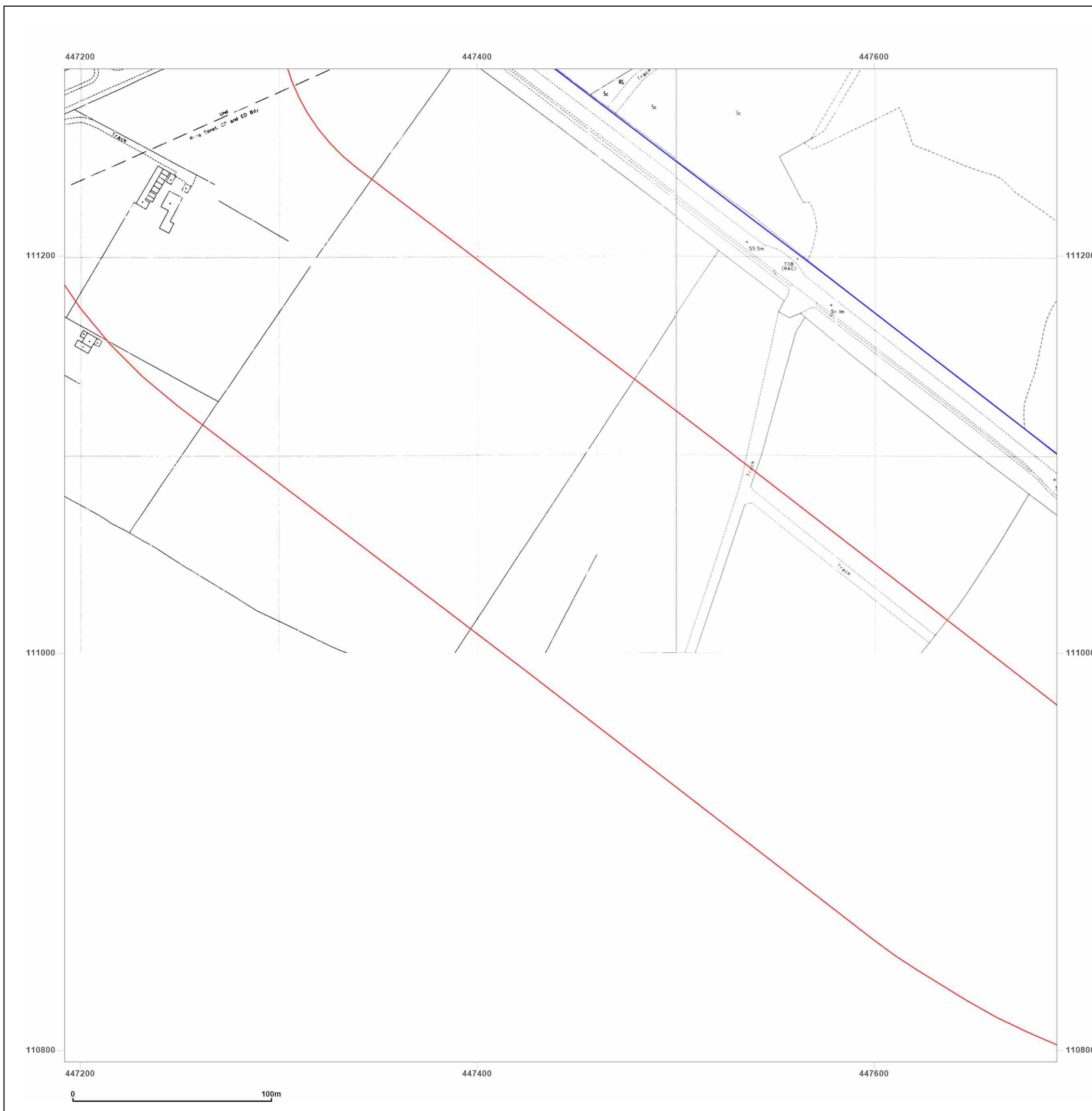


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_1_2
Grid Ref: 447442, 111544

Map Name: National Grid

Map date: 1970

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1969
Edition N/A
Copyright 1970
Levelled 1959

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Revised 1969
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Copyright 1970
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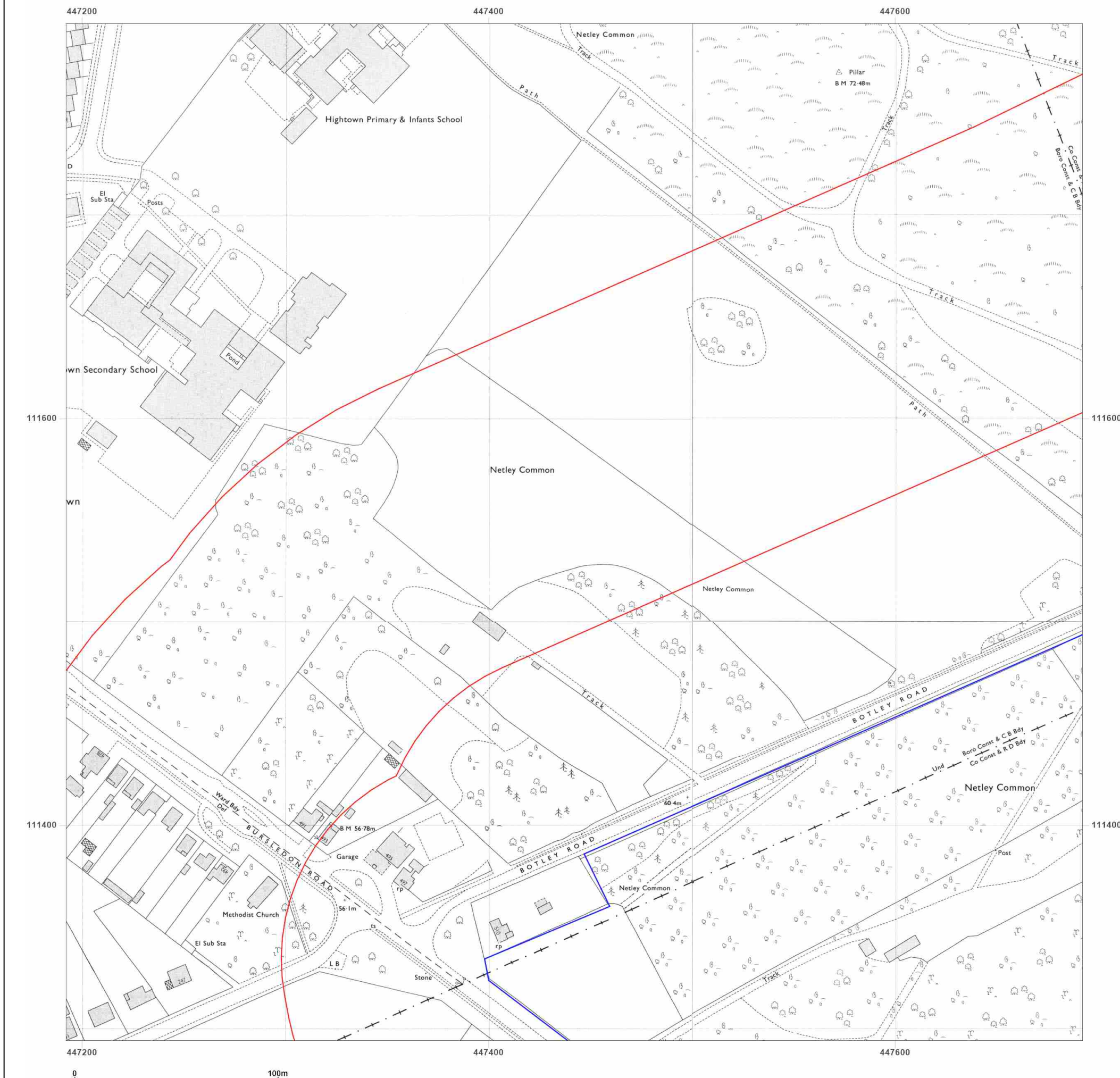


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_1_2
Grid Ref: 447442, 111544

Map Name: National Grid

Map date: 1974

Scale: 1:1,250

Printed at: 1:2,000



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SO31 8BN

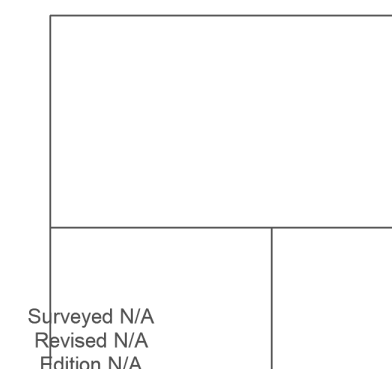
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Grid Ref: 447442, 111544

Map Name: National Grid

Map date: 1979

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
Levelled N/A

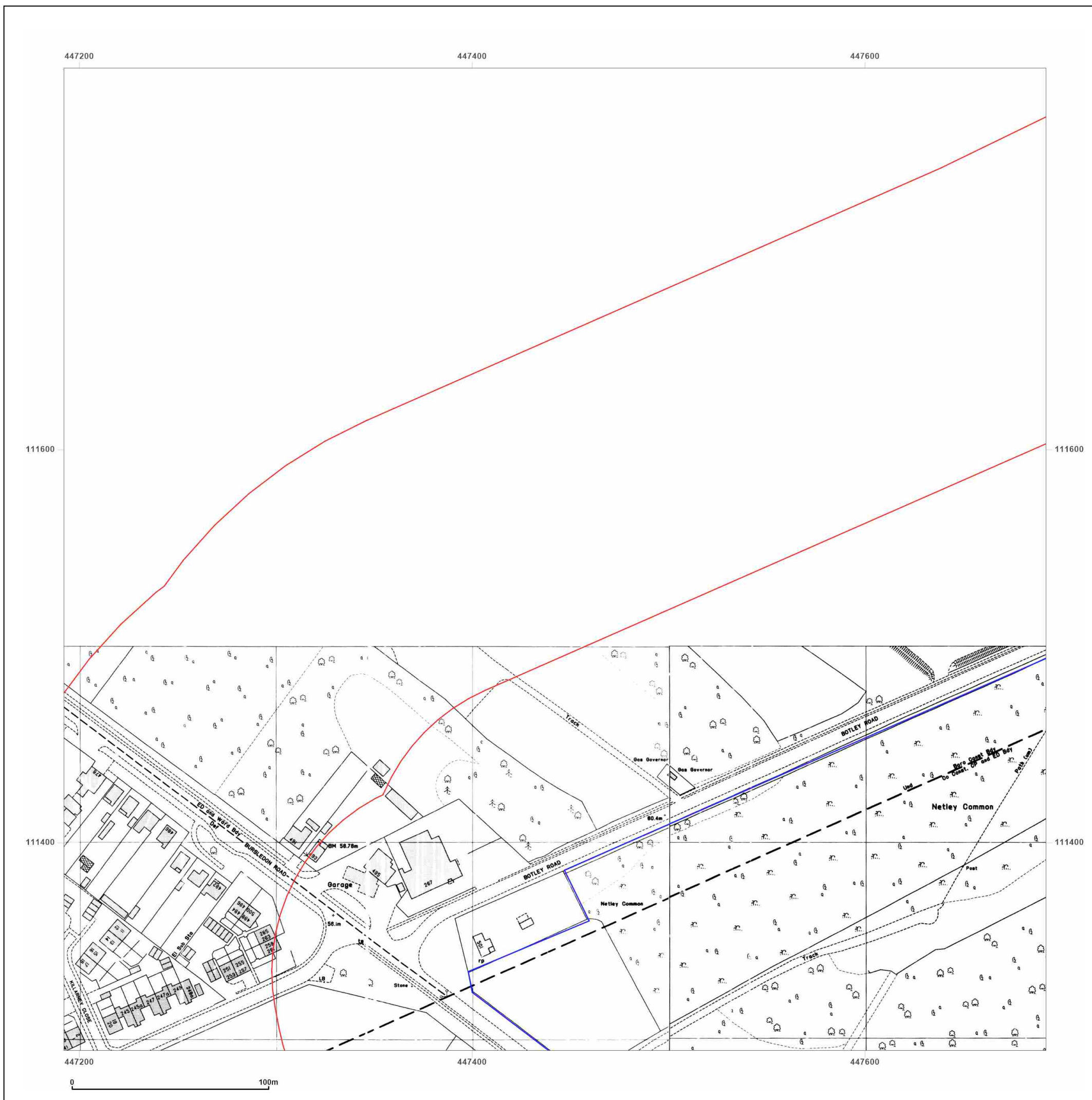


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_1_2
Grid Ref: 447442, 111544

Map Name: National Grid

Map date: 1987-1990

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1989
Levelled 1959

Surveyed 1959
Revised 1990
Edition N/A
Copyright 1990
Levelled 1959

Surveyed 1959
Revised 1987
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Copyright 1987
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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_1_2
Grid Ref: 447442, 111544

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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SO31 8BN

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Report Ref: GS-2F5-V7L-3KE-C82_1250_1_2
Grid Ref: 447442, 111544

Map Name: National Grid

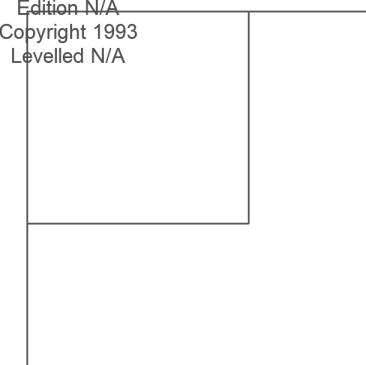
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Revised N/A
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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_1_2
Grid Ref: 447442, 111544

Map Name: National Grid

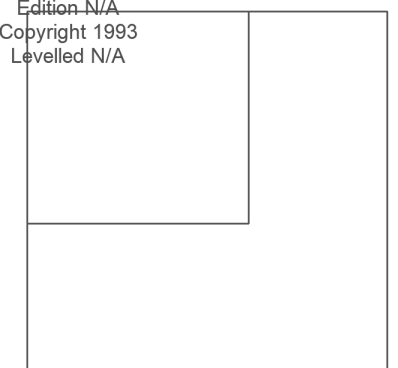
Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1993
Revised 1993
Edition N/A
Copyright 1993
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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_2_1
Grid Ref: 447942, 111044

Map Name: National Grid

Map date: 1970

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1969
Revised 1969
Edition N/A
Copyright 1970
Levelled 1959

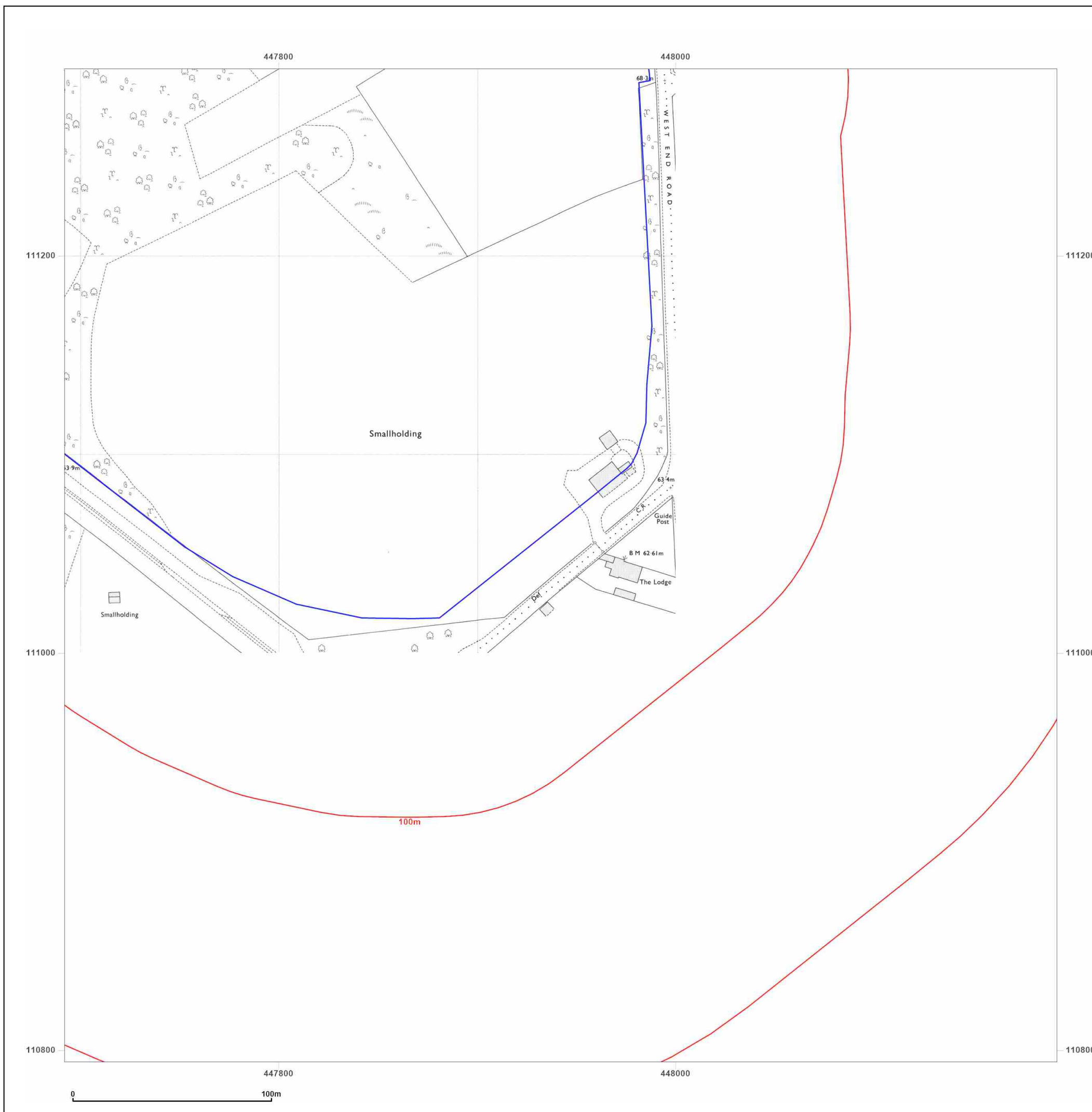


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_2_1
Grid Ref: 447942, 111044

Map Name: National Grid

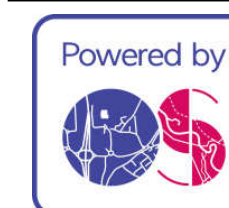
Map date: 1974

Scale: 1:1,250

Printed at: 1:2,000



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

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_2_1
Grid Ref: 447942, 111044

Map Name: National Grid

Map date: 1979

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
Levelled N/A

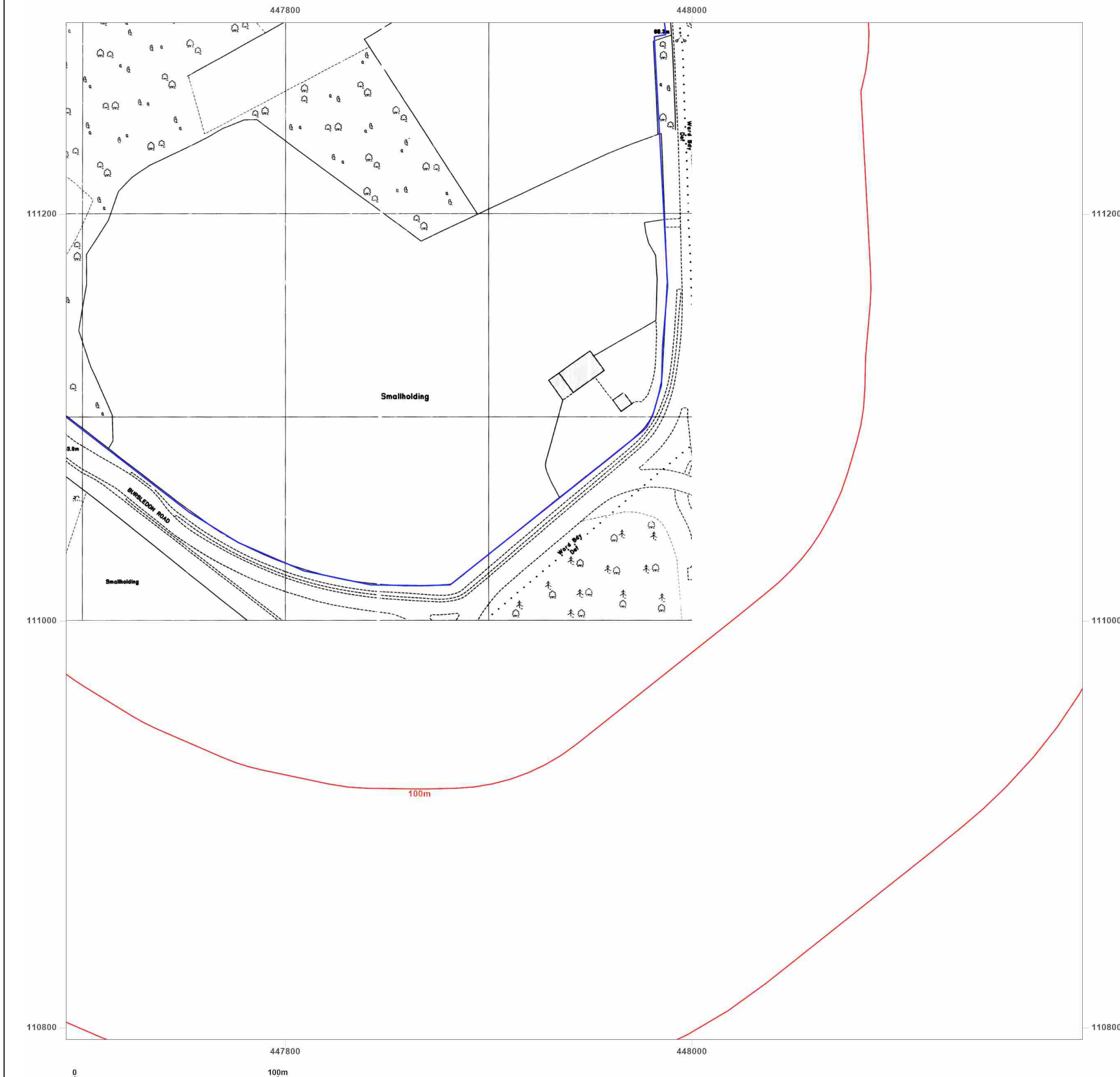


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_2_1
Grid Ref: 447942, 111044

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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Levelled N/A

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

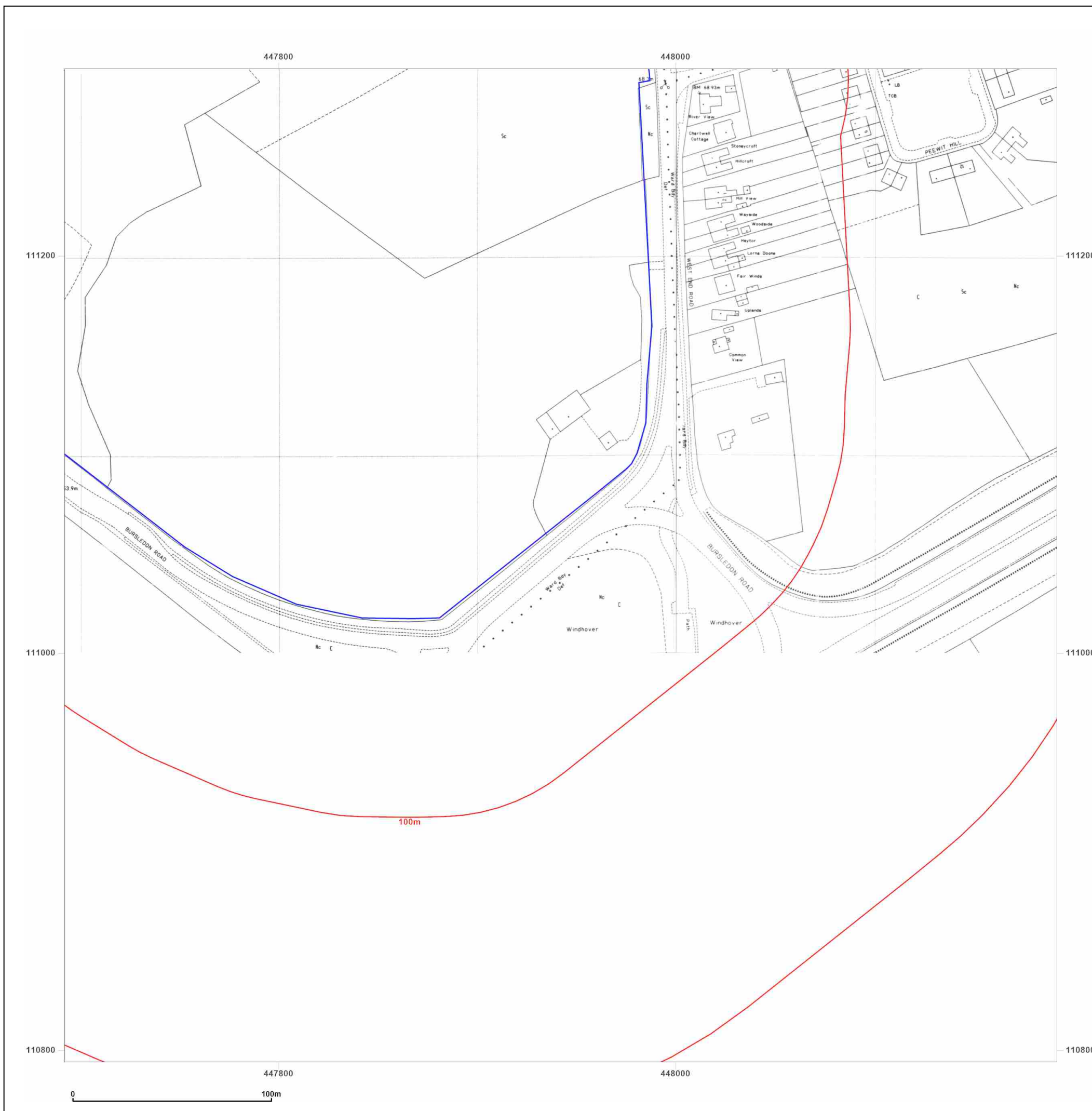


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_2_2
Grid Ref: 447942, 111544

Map Name: National Grid

Map date: 1970

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1969
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Levelled 1959

Surveyed 1969
Revised 1969
Edition N/A
Copyright 1970
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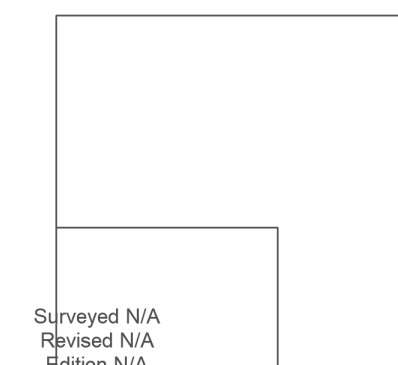
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Report Ref: GS-2F5-V7L-3KE-C82_1250_2_2
Grid Ref: 447942, 111544

Map Name: National Grid

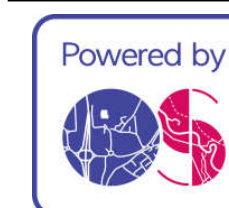
Map date: 1974

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
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SO31 8BN

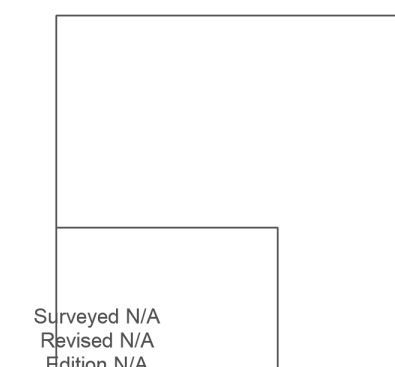
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Map Name: National Grid

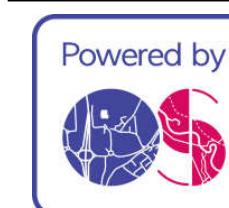
Map date: 1979

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
Levelled N/A

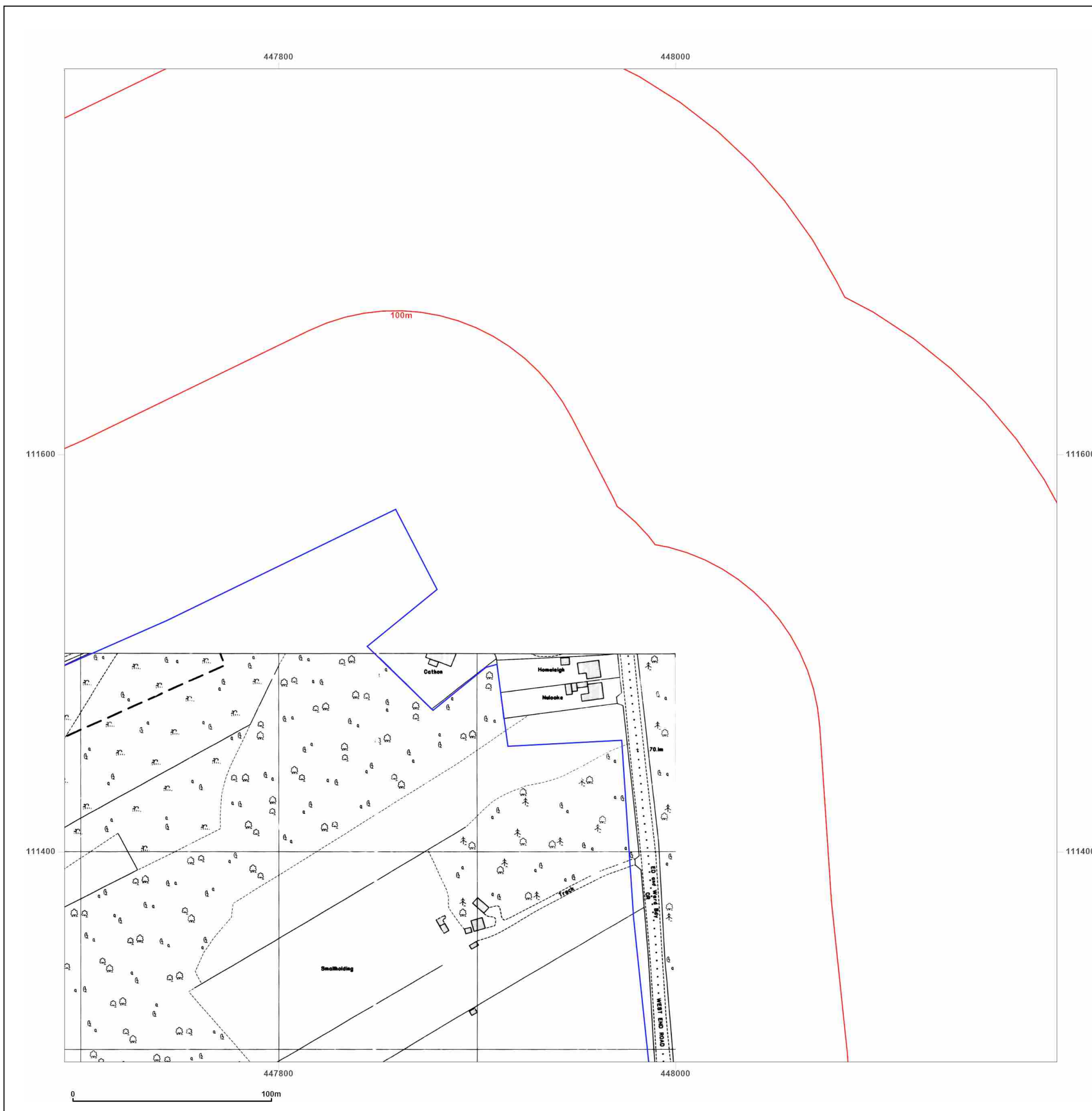


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_2_2
Grid Ref: 447942, 111544

Map Name: National Grid

Map date: 1990-1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1959
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Edition N/A
Copyright 1990
Levelled 1959

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

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

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

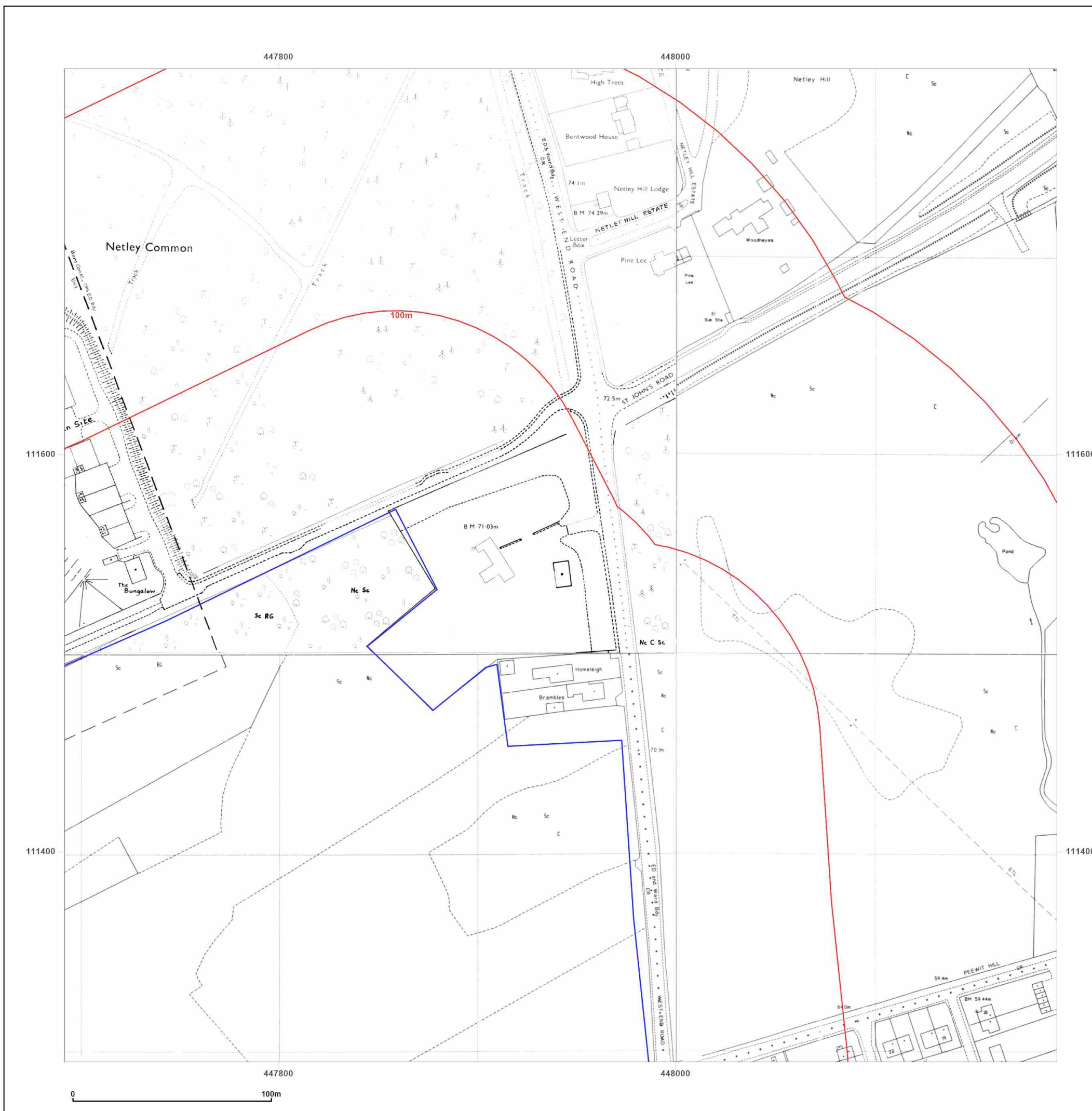


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_1250_2_2
Grid Ref: 447942, 111544

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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



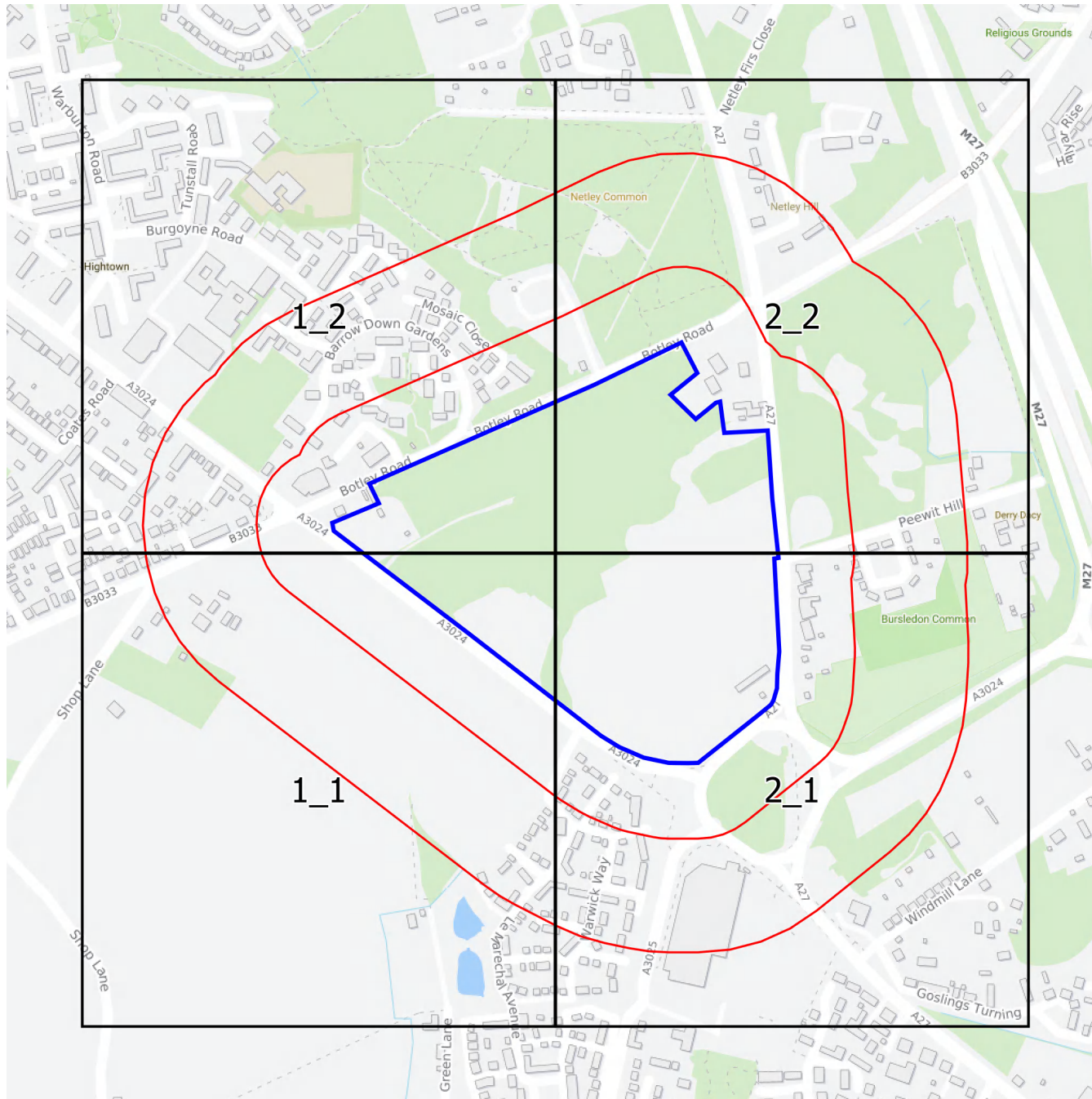
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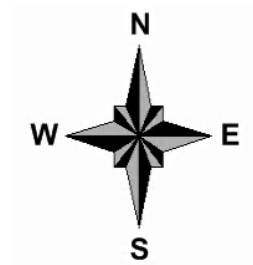
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1:2,500 Scale Grid Index



Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: County Series

Map date: 1867

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

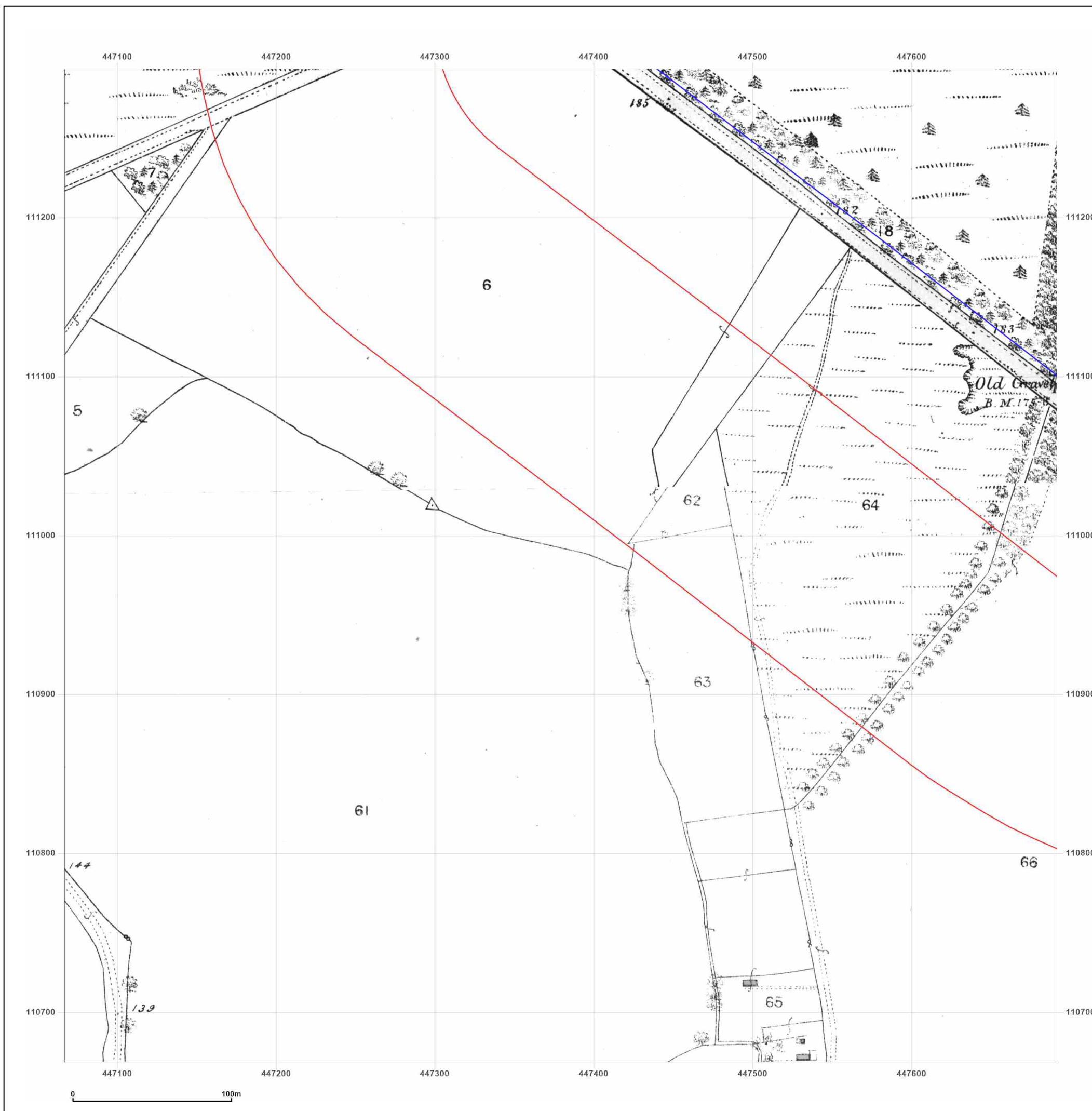


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: County Series

Map date: 1868

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1868
Revised 1868
Edition N/A
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Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

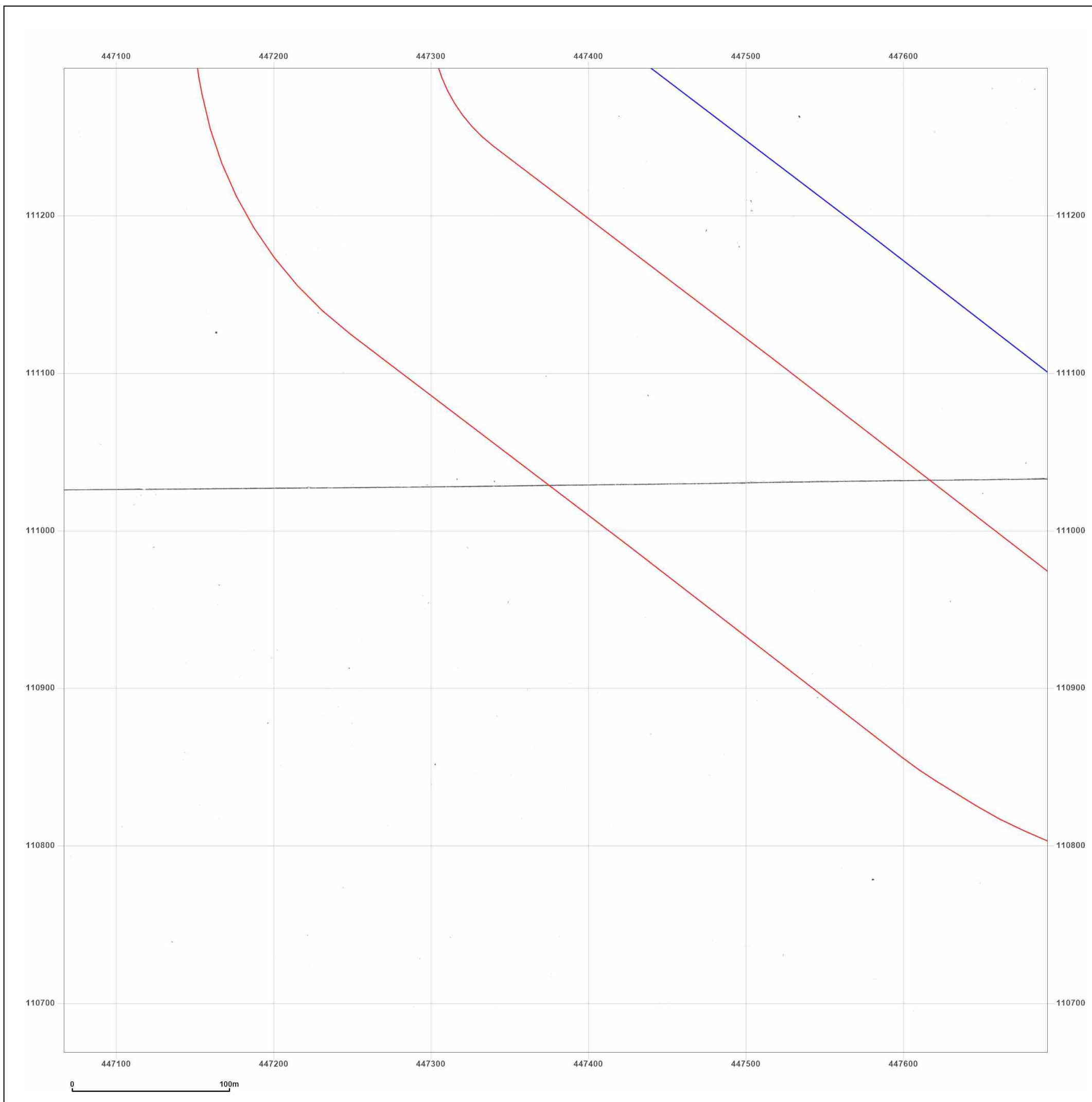


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: County Series

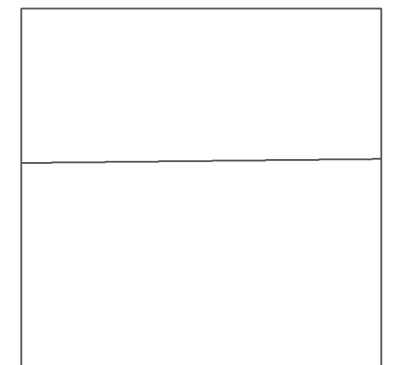
Map date: 1868

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

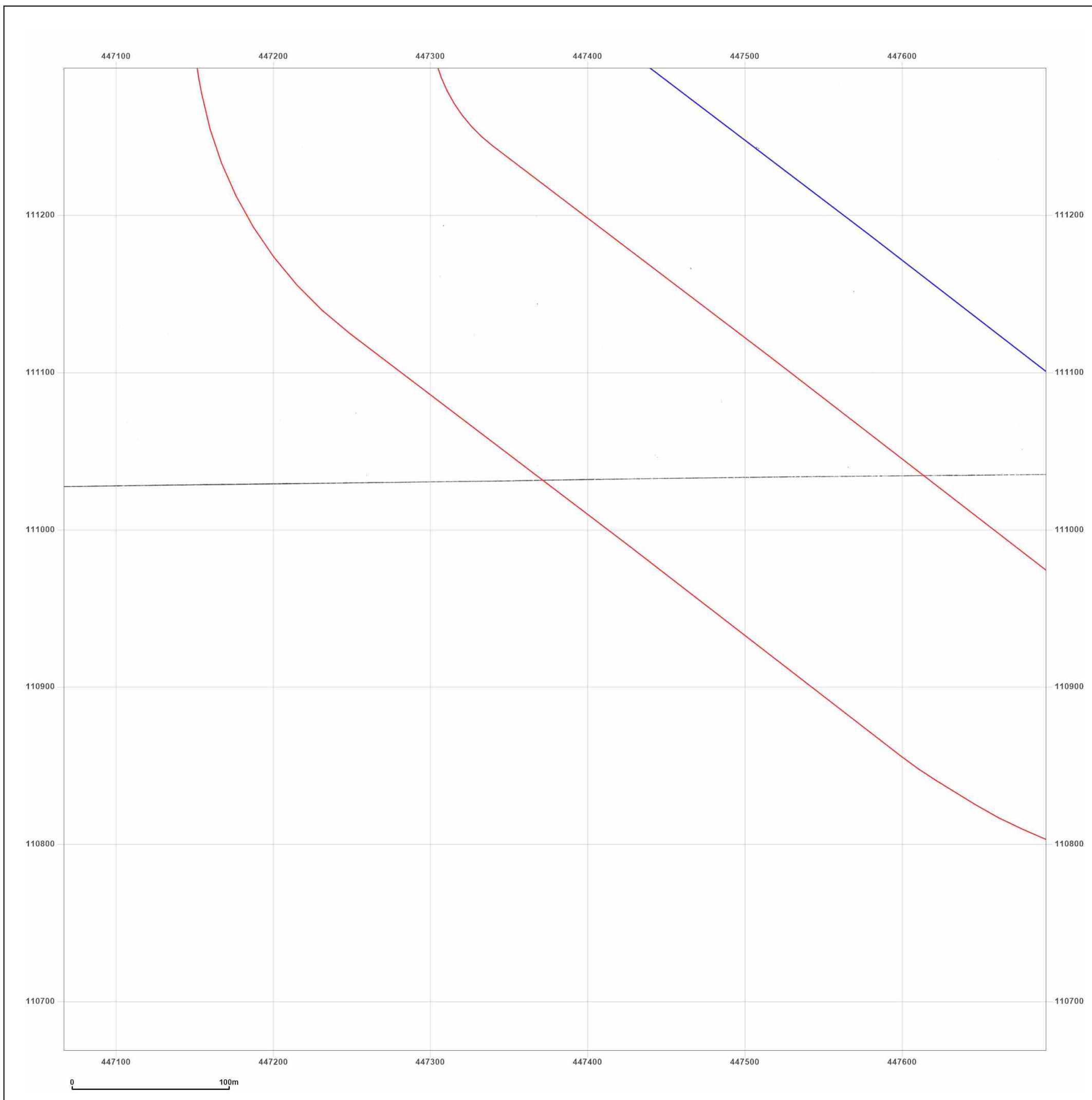


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: County Series

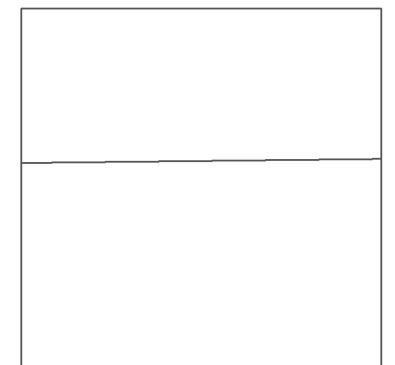
Map date: 1869

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

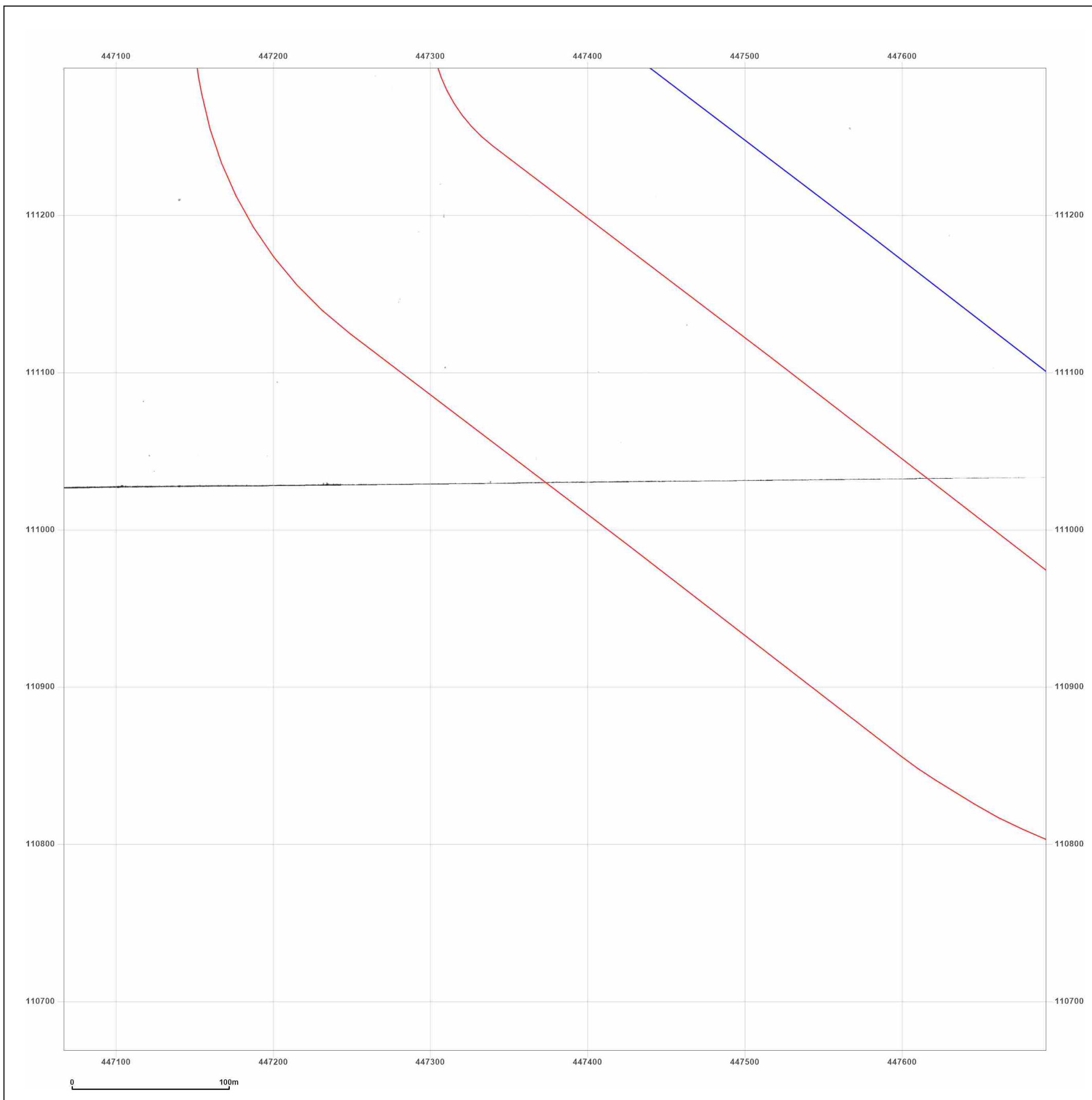


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

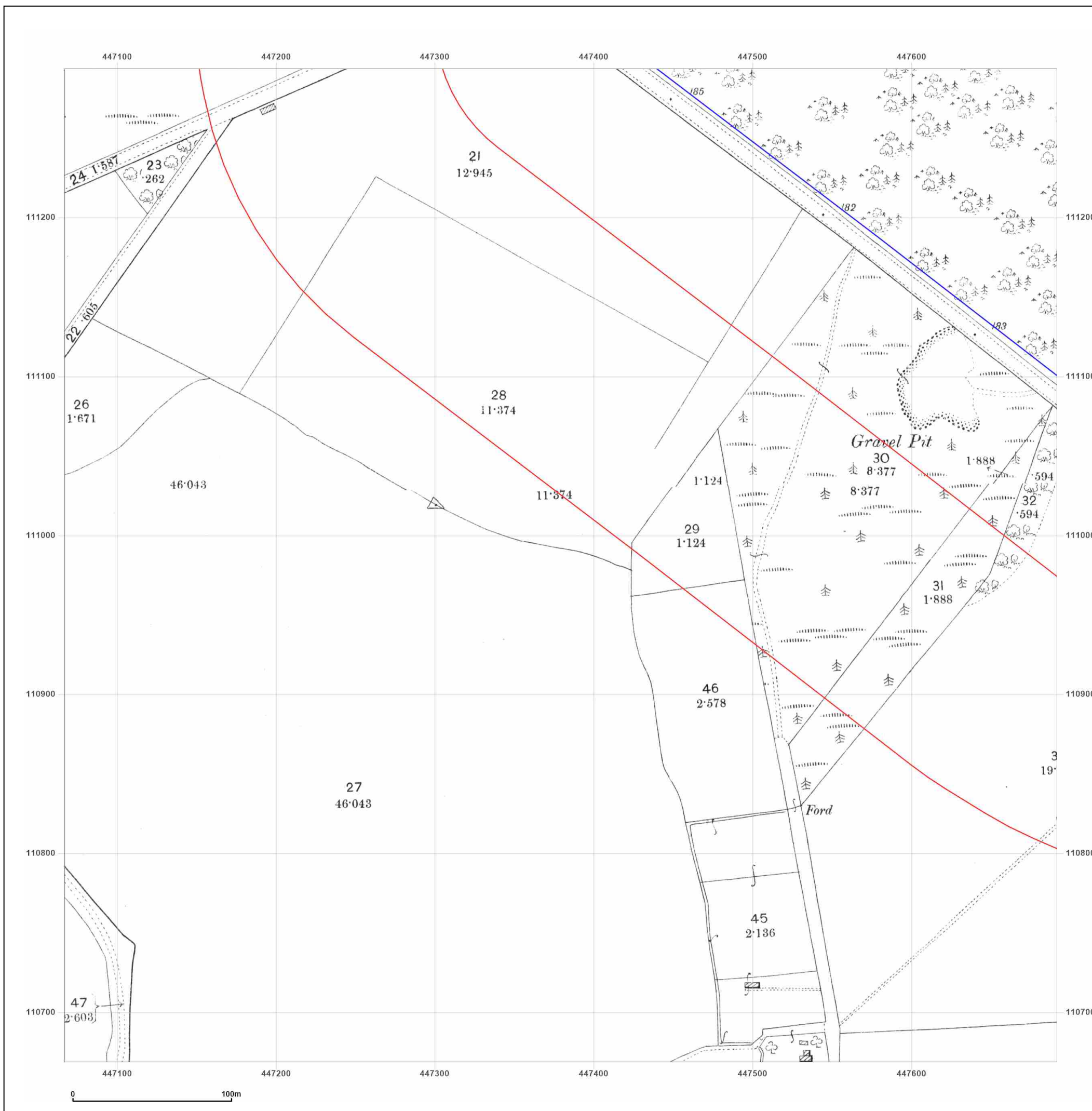


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
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Edition N/A
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Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

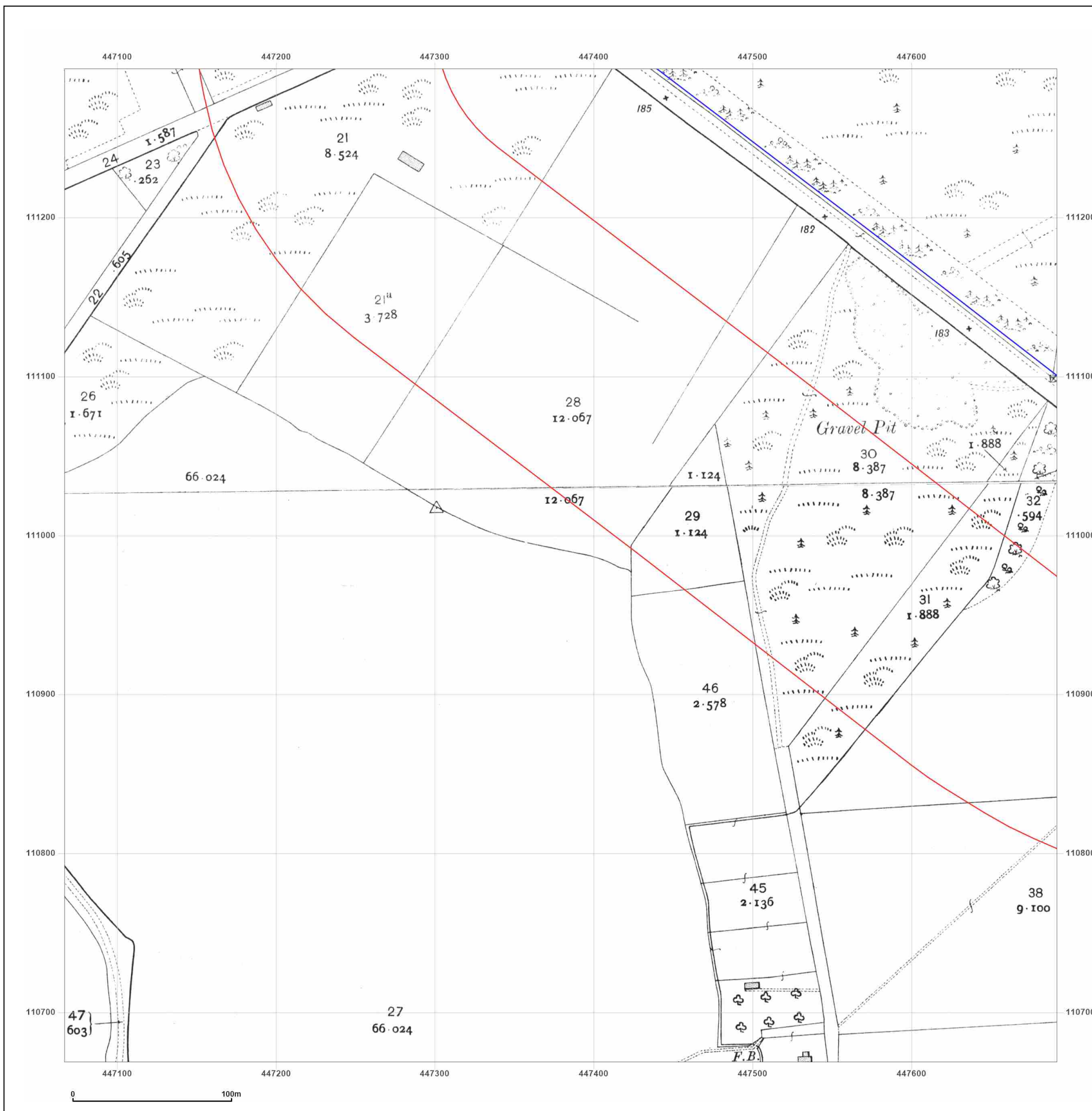


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: National Grid

Map date: 1964-1965

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 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled N/A

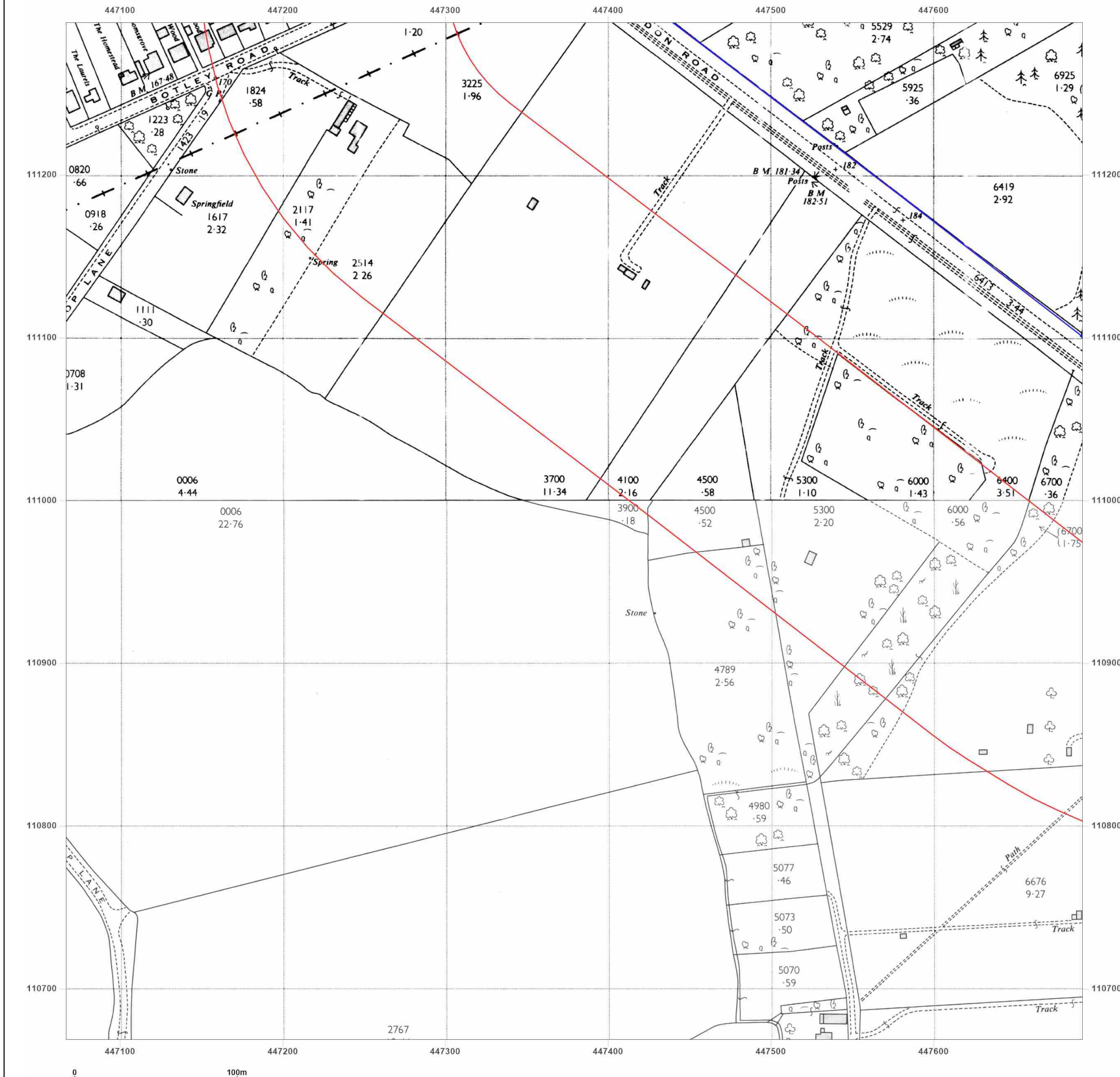


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: National Grid

Map date: 1965

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1965
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Surveyed N/A
Revised N/A
Edition N/A
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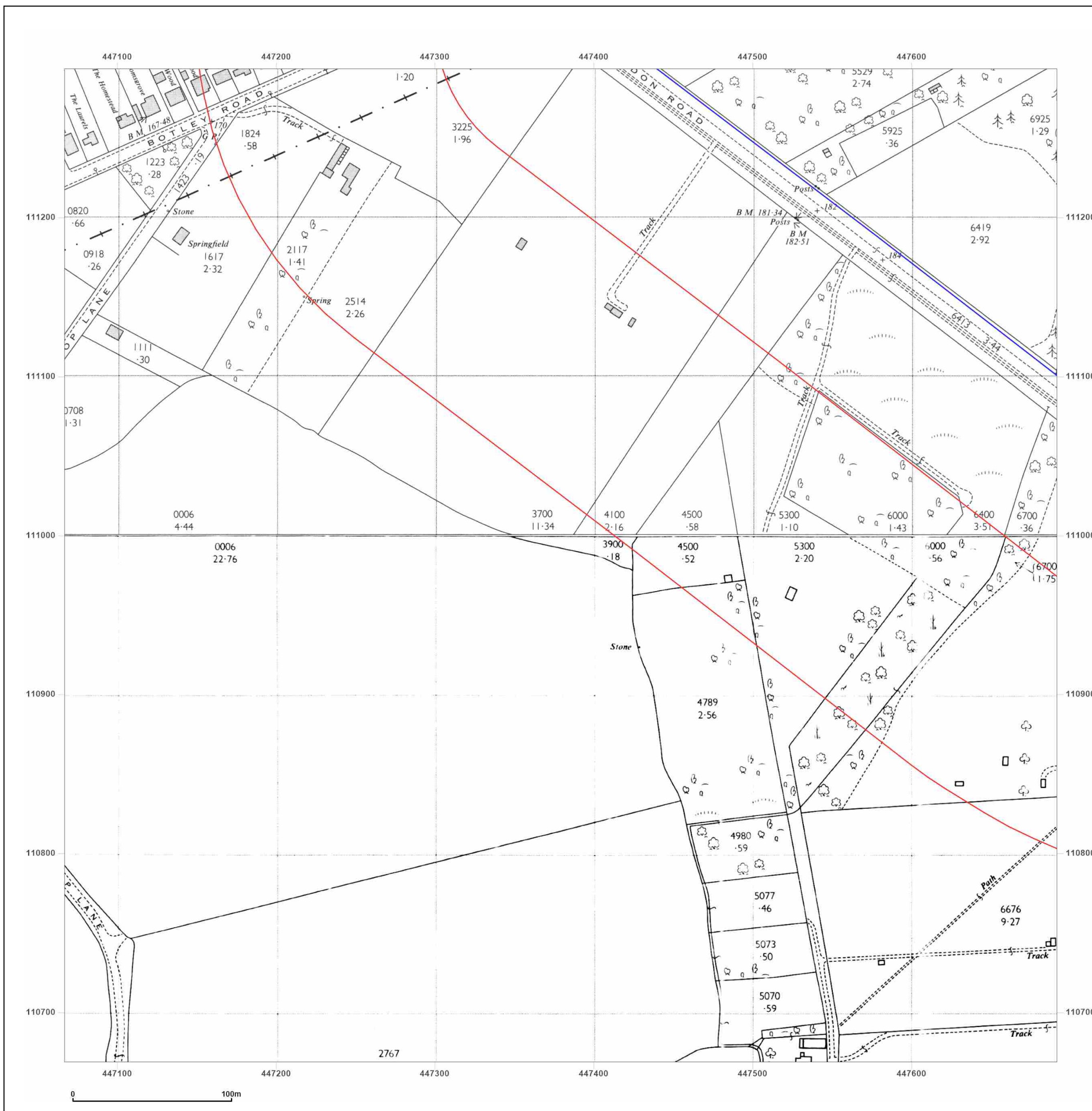


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: National Grid

Map date: 1970-1975

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
Revised 1970
Edition N/A
Copyright 1972
Levelled 1959

Surveyed 1950
Revised 1975
Edition N/A
Copyright 1977
Levelled 1959

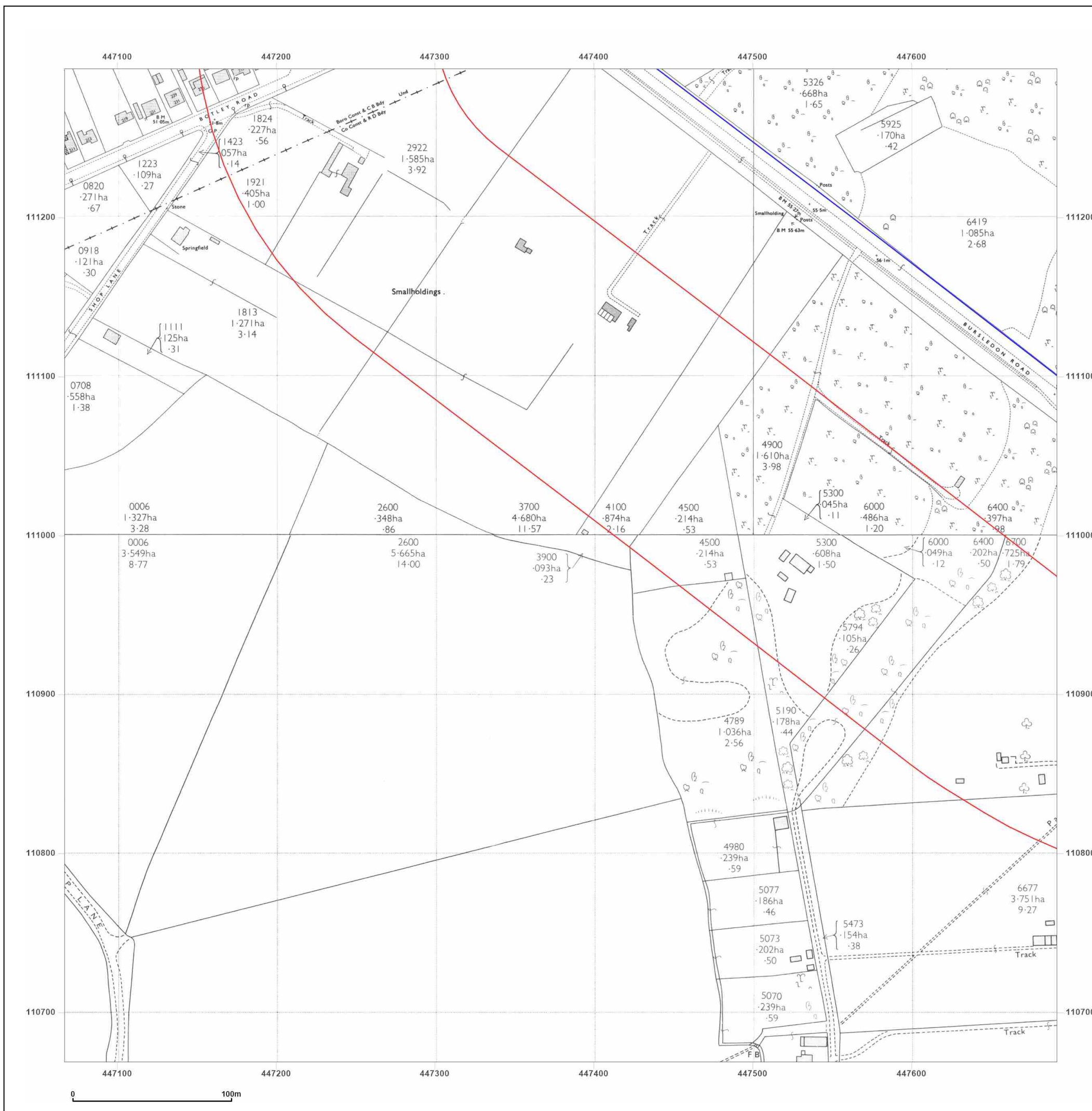


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: National Grid

Map date: 1972-1977

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

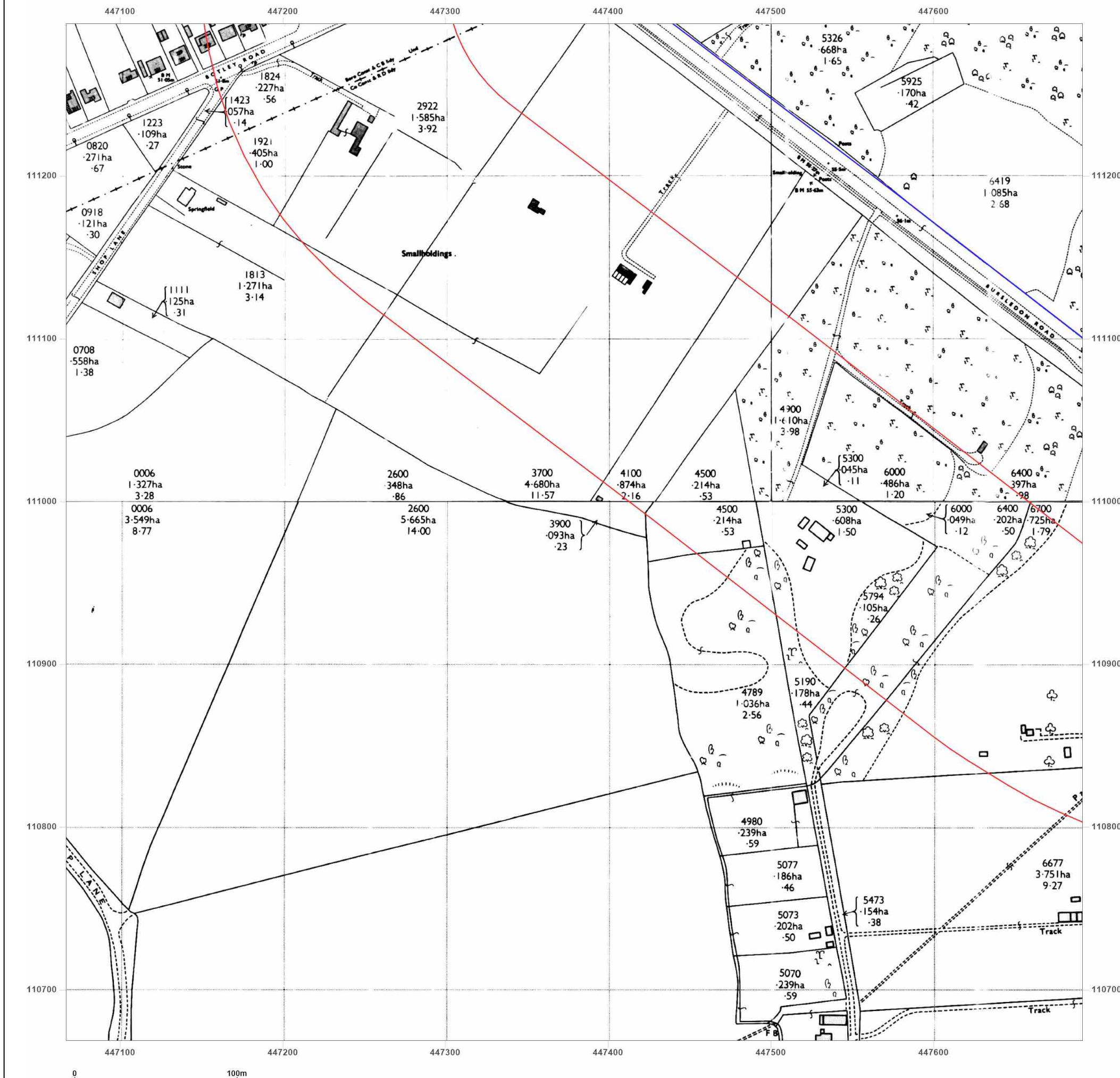


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1950
Revised 1985
Edition N/A
Copyright 1987
Levelled 1959

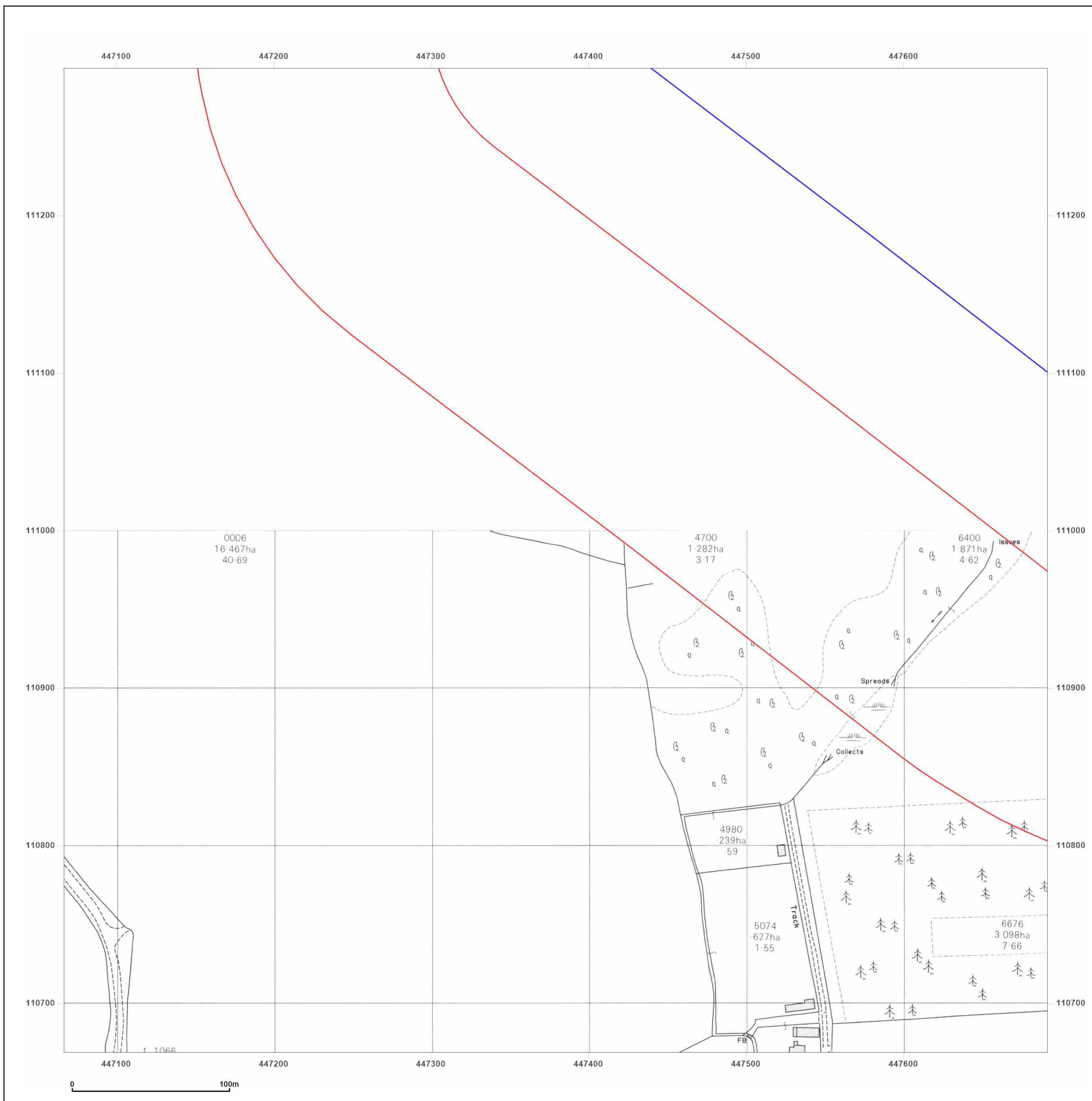


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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: National Grid

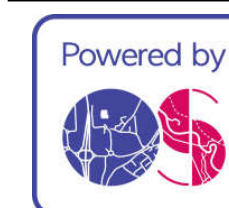
Map date: 1988

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1959
Revised 1988
Edition N/A
Copyright 1988
Levelled 1959

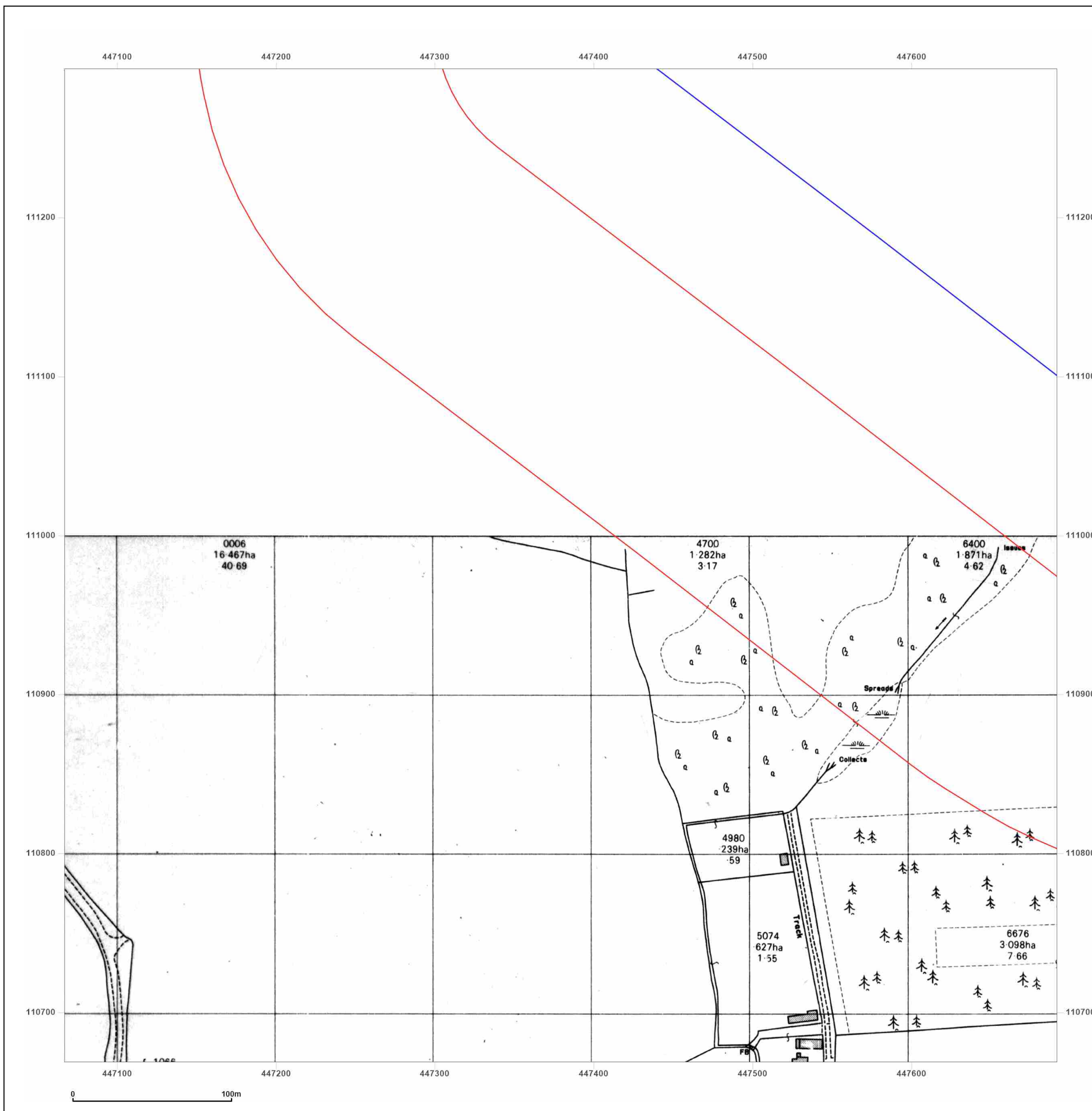


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SO31 8BN

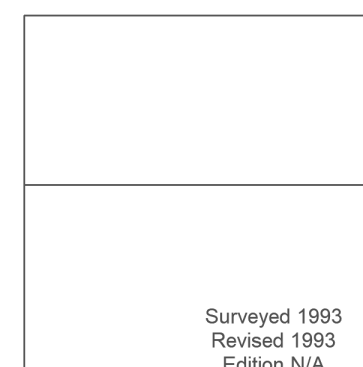
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Report Ref: GS-2F5-V7L-3KE-C82_LS_1_1
Grid Ref: 447379, 110981

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



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

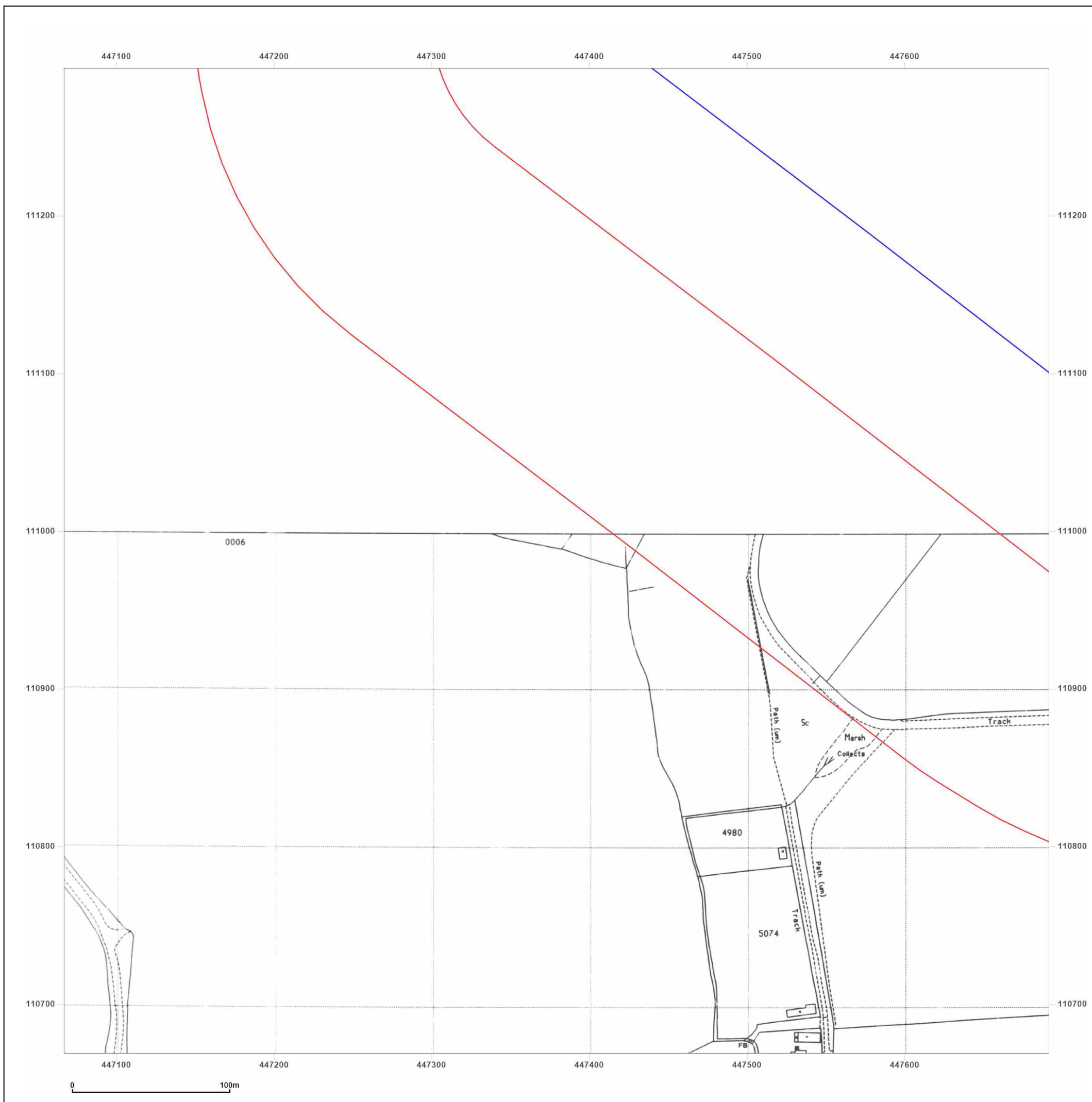


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Production date: 15 November 2023

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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_2
Grid Ref: 447379, 111606

Map Name: County Series

Map date: 1867

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

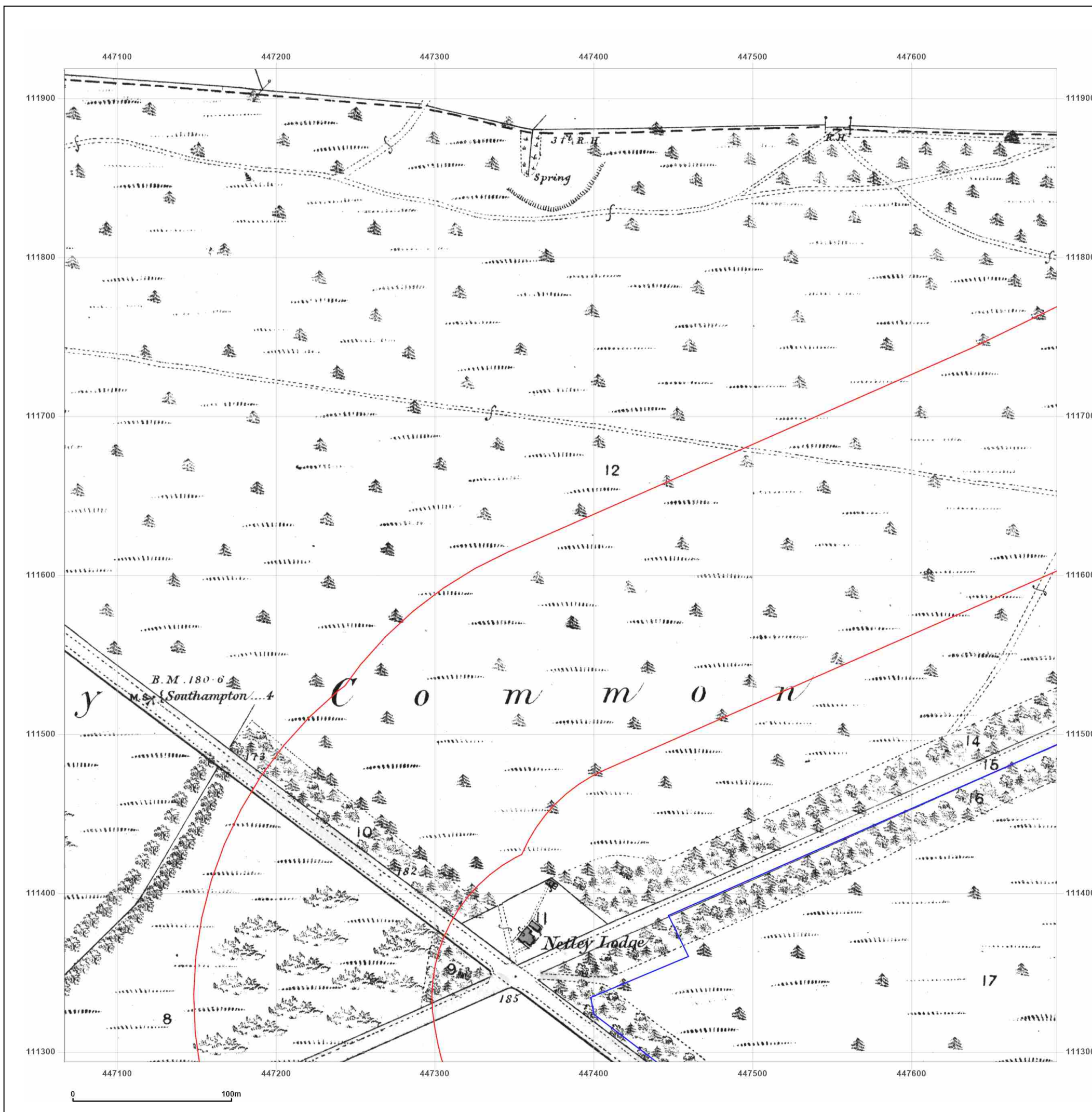


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_2
Grid Ref: 447379, 111606

Map Name: County Series

Map date: 1868

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

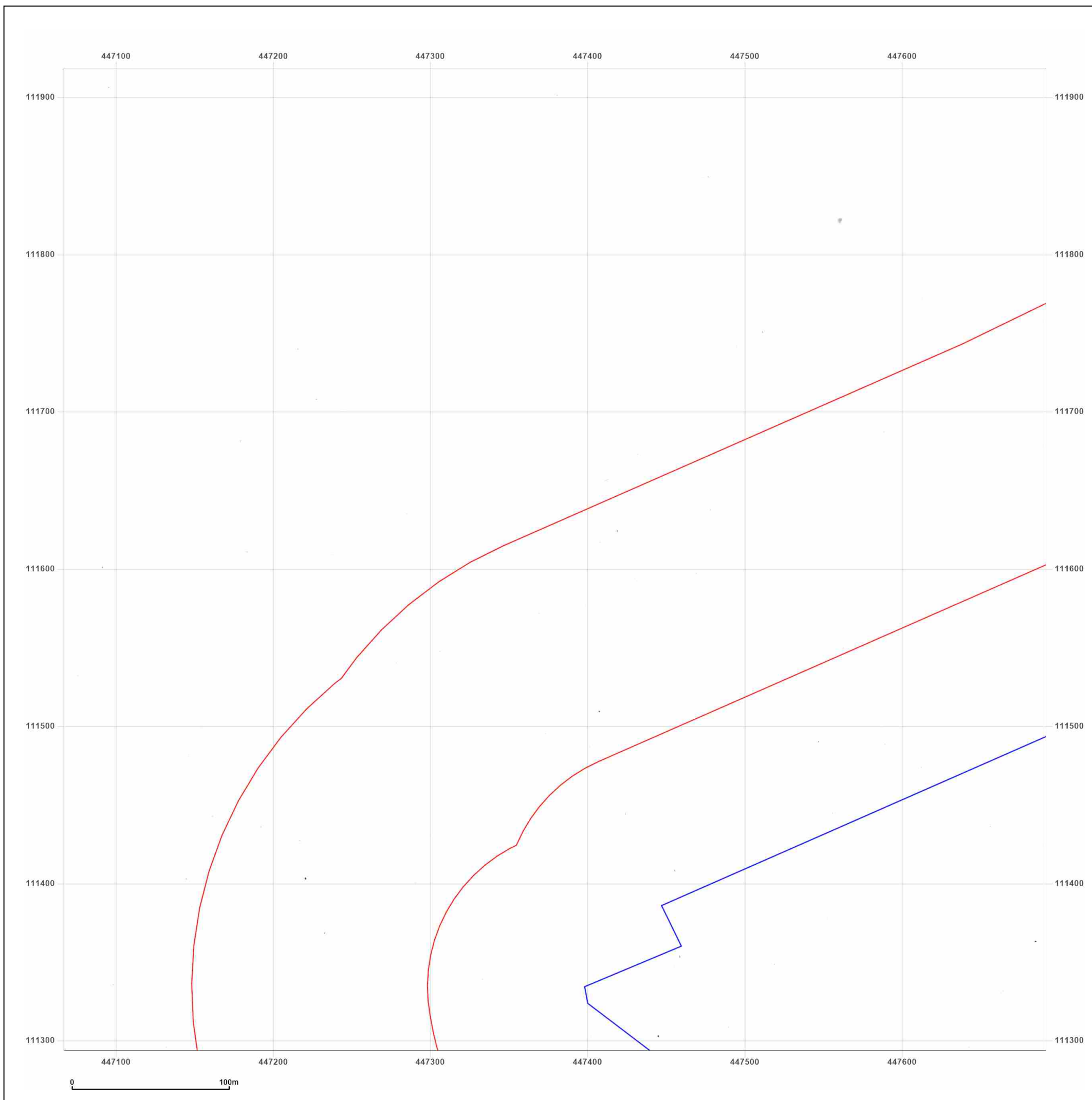


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_2
Grid Ref: 447379, 111606

Map Name: County Series

Map date: 1868

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

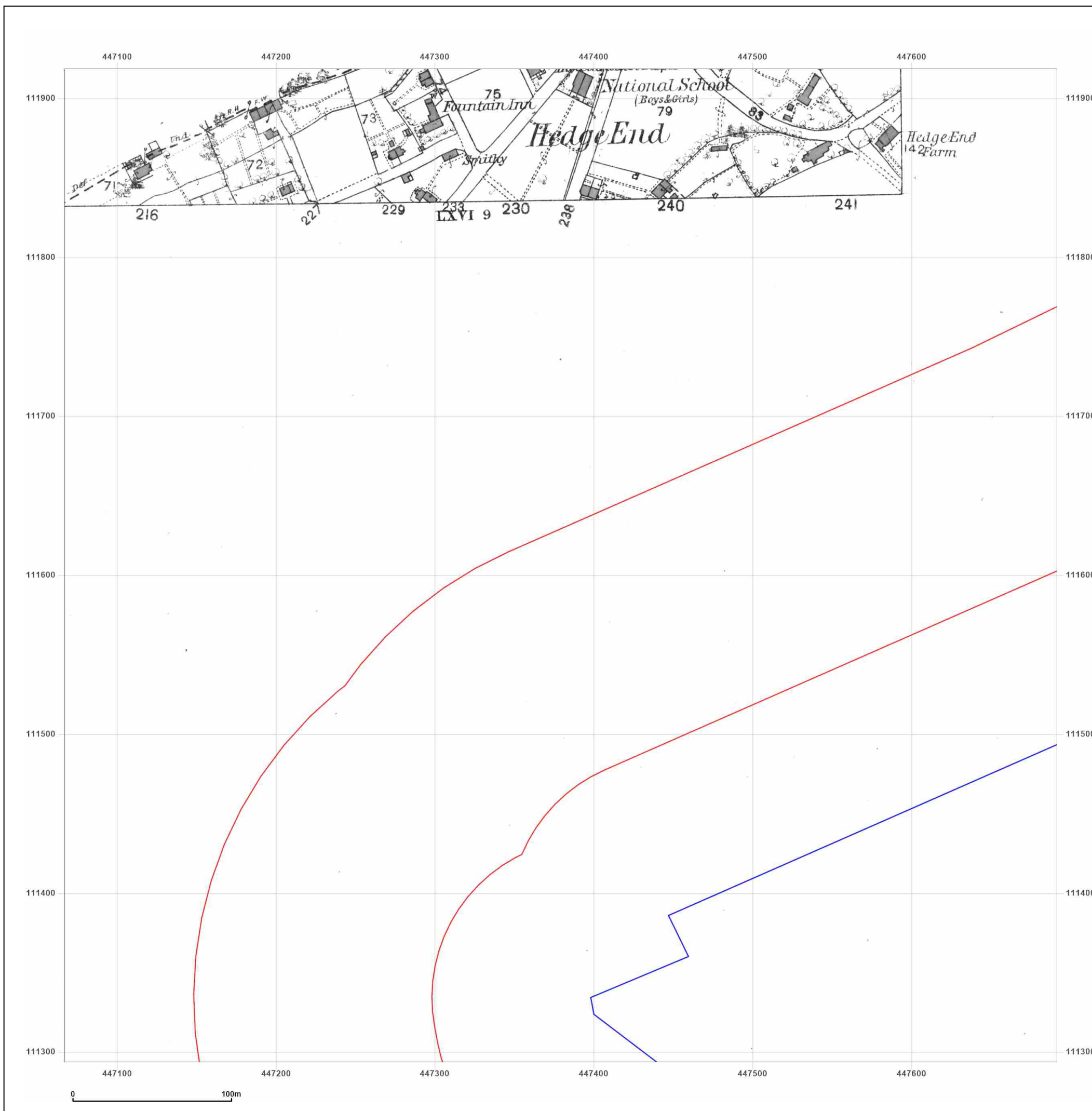


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_2
Grid Ref: 447379, 111606

Map Name: County Series

Map date: 1869

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

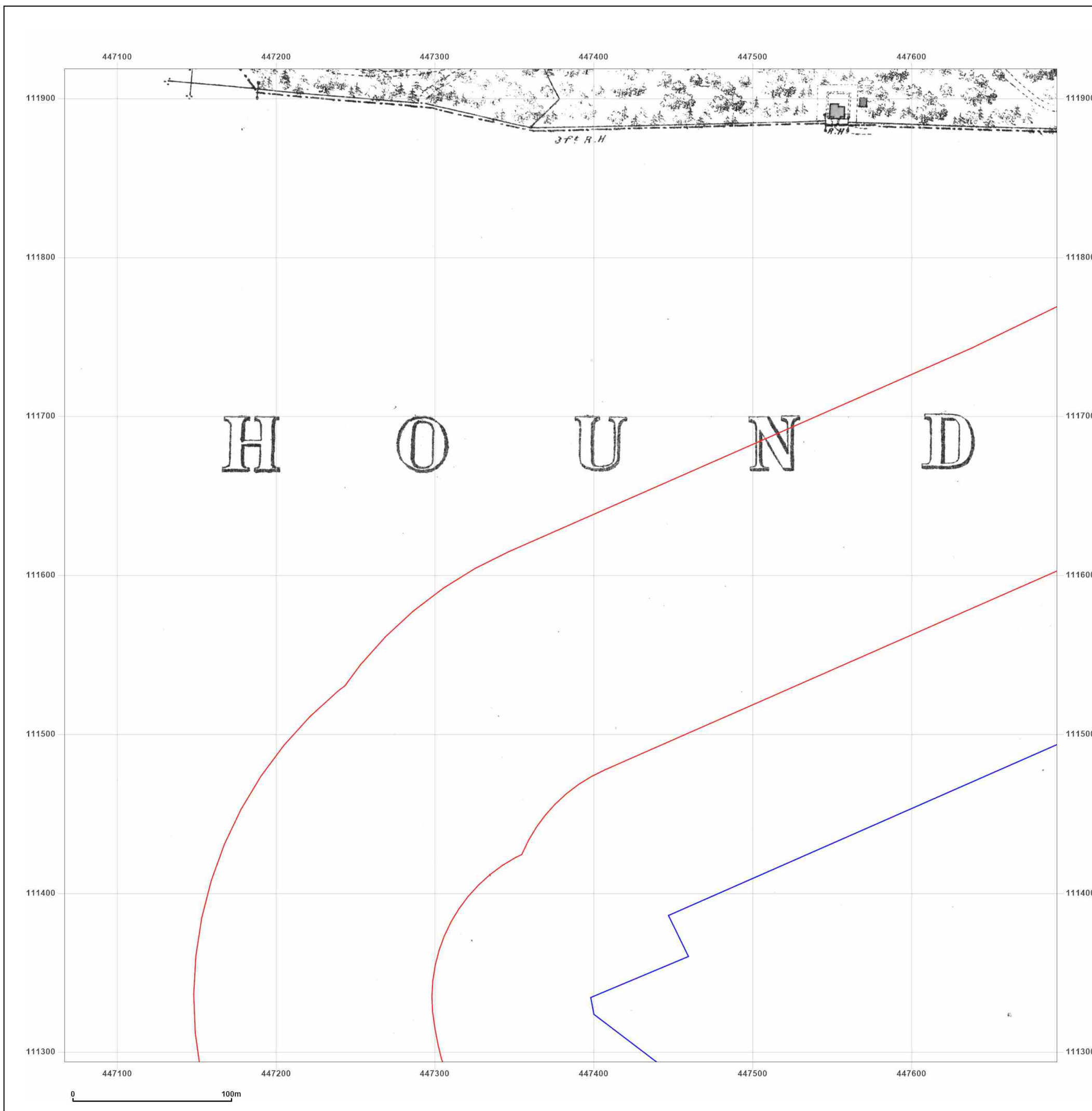


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_2
Grid Ref: 447379, 111606

Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

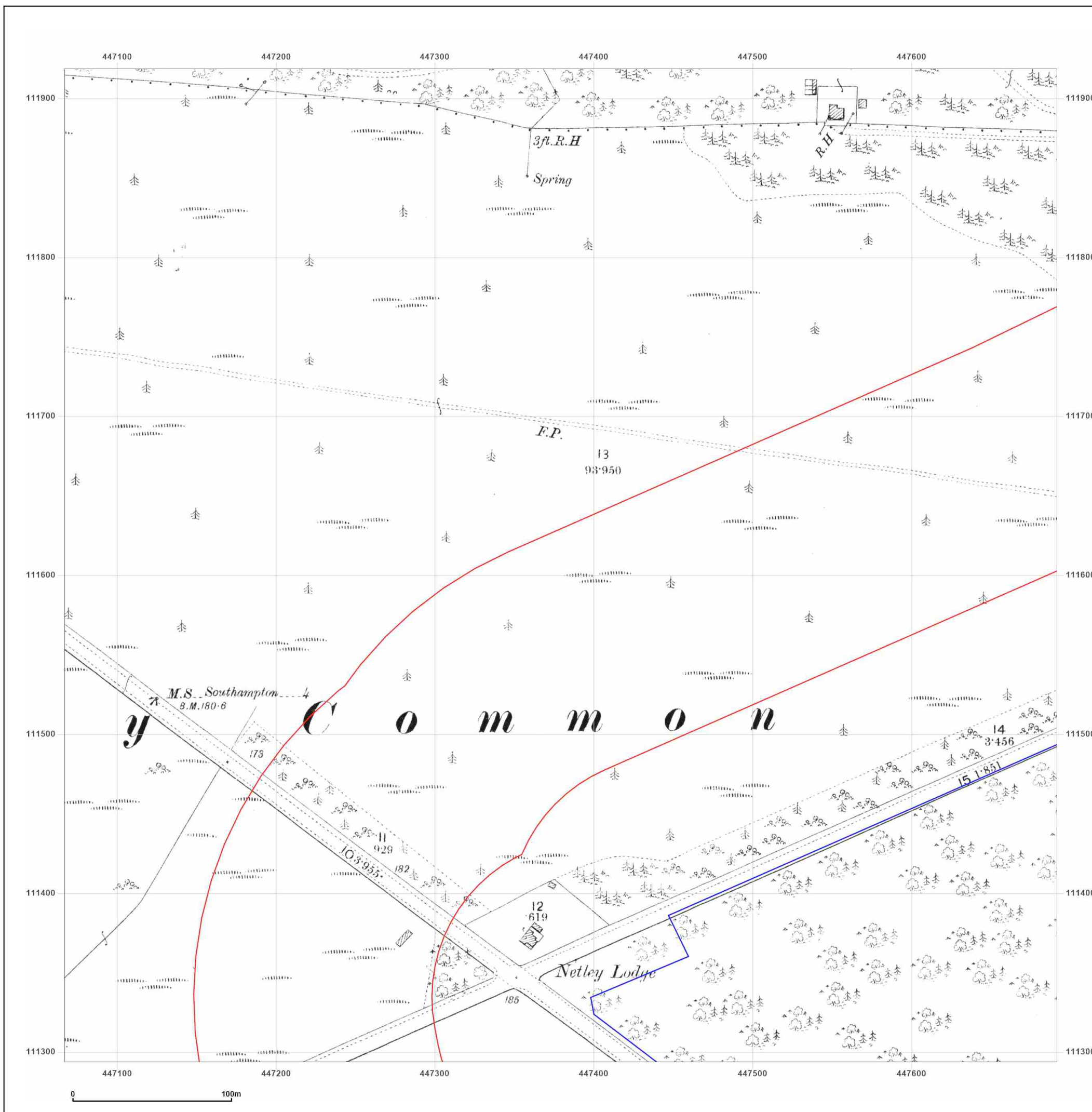


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_2
Grid Ref: 447379, 111606

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

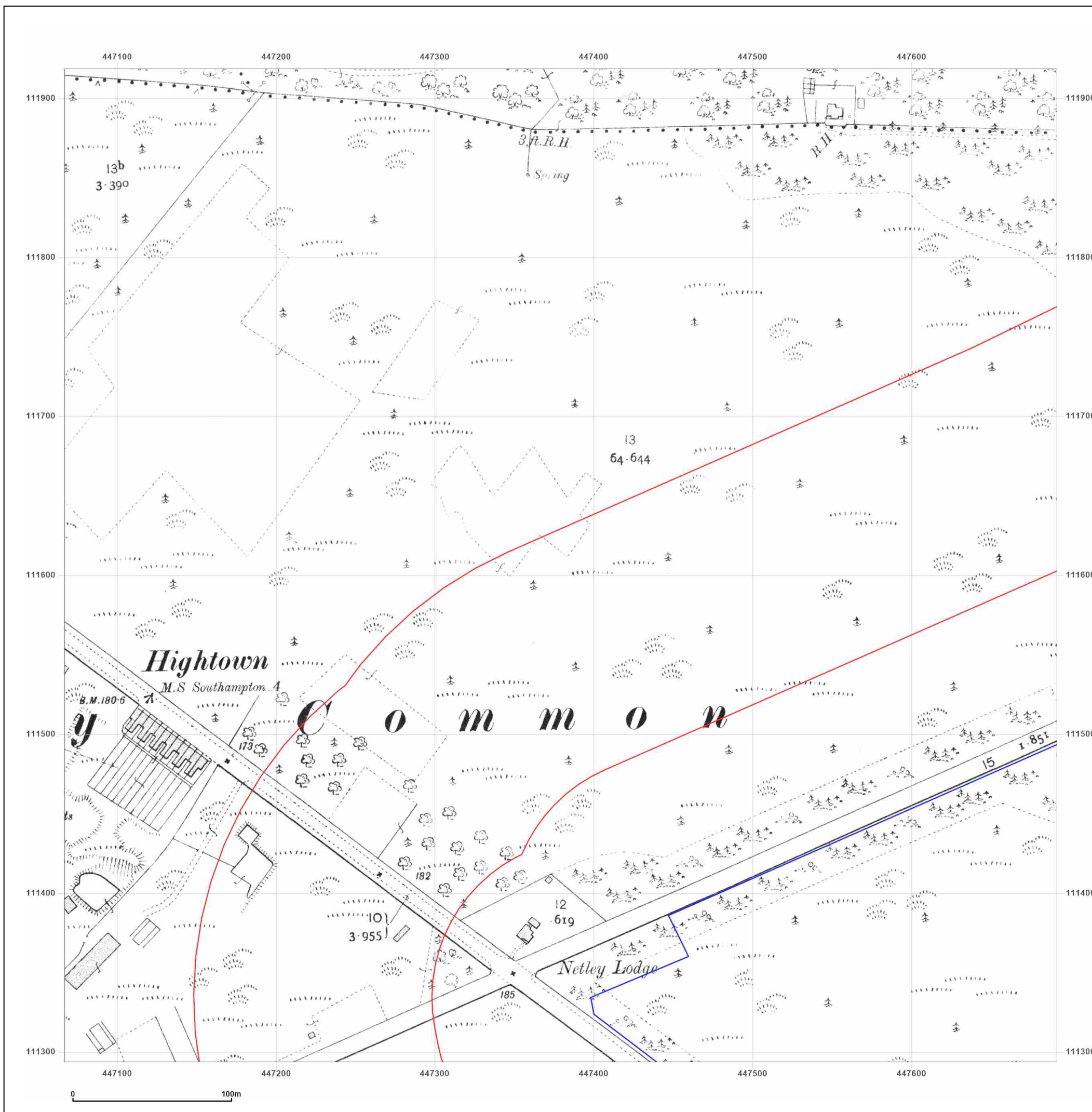


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_2
Grid Ref: 447379, 111606

Map Name: National Grid

Map date: 1965

Scale: 1:2,500

Printed at: 1:2,500



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

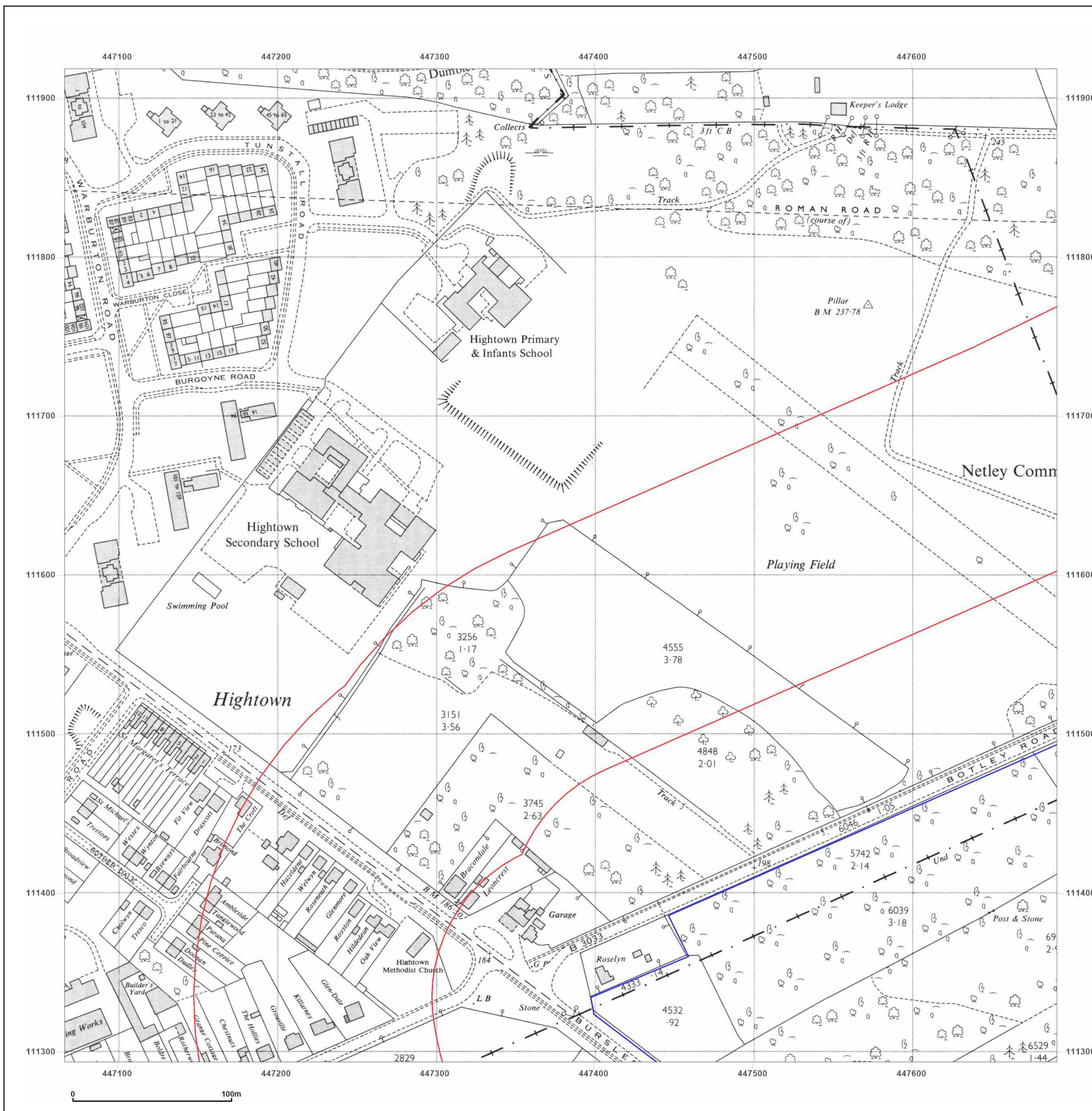


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_2
Grid Ref: 447379, 111606

Map Name: National Grid

Map date: 1965

Scale: 1:2,500

Printed at: 1:2,500



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

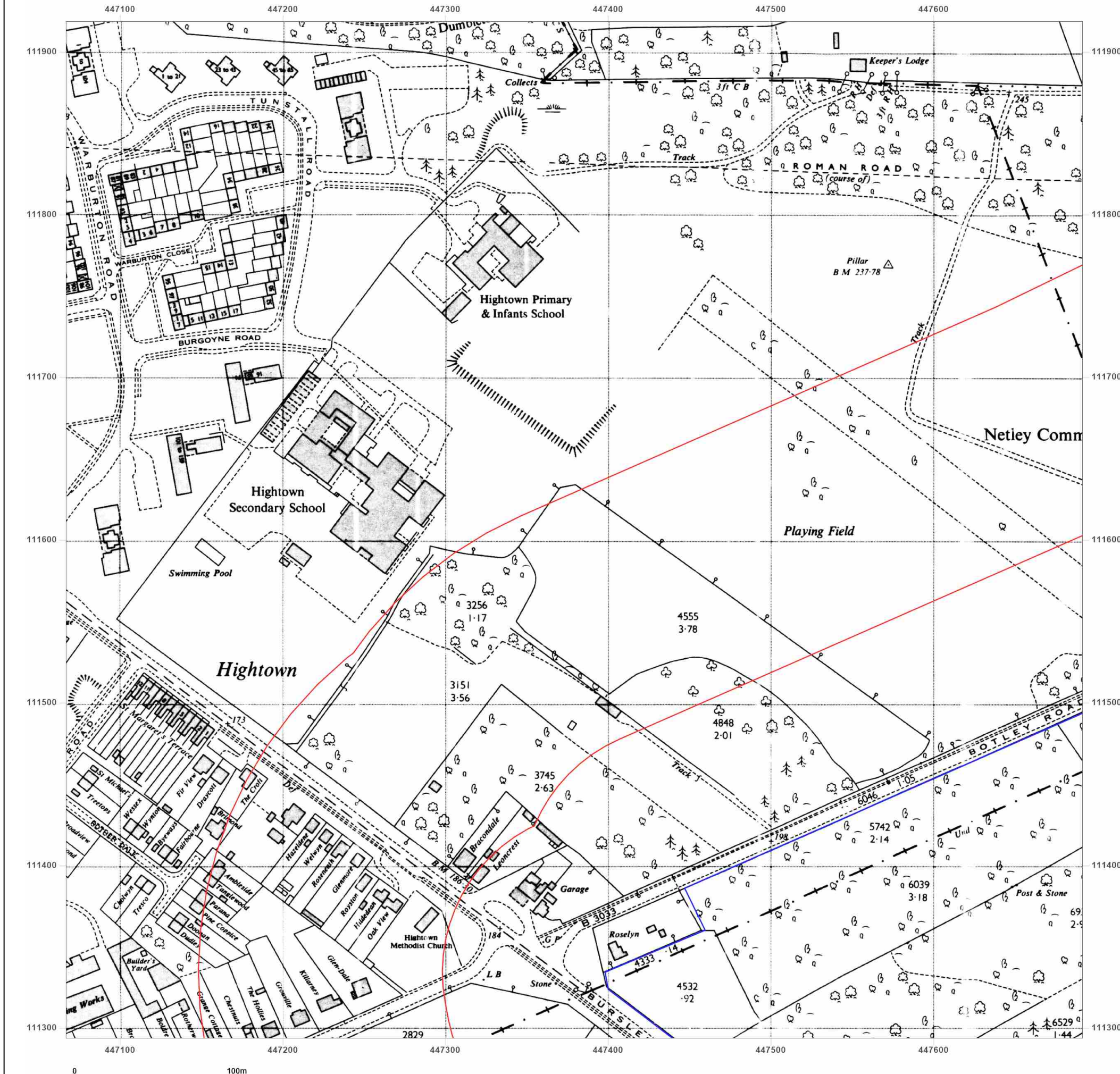


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_2
Grid Ref: 447379, 111606

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
Revised 1970
Edition N/A
Copyright 1972
Levelled 1959

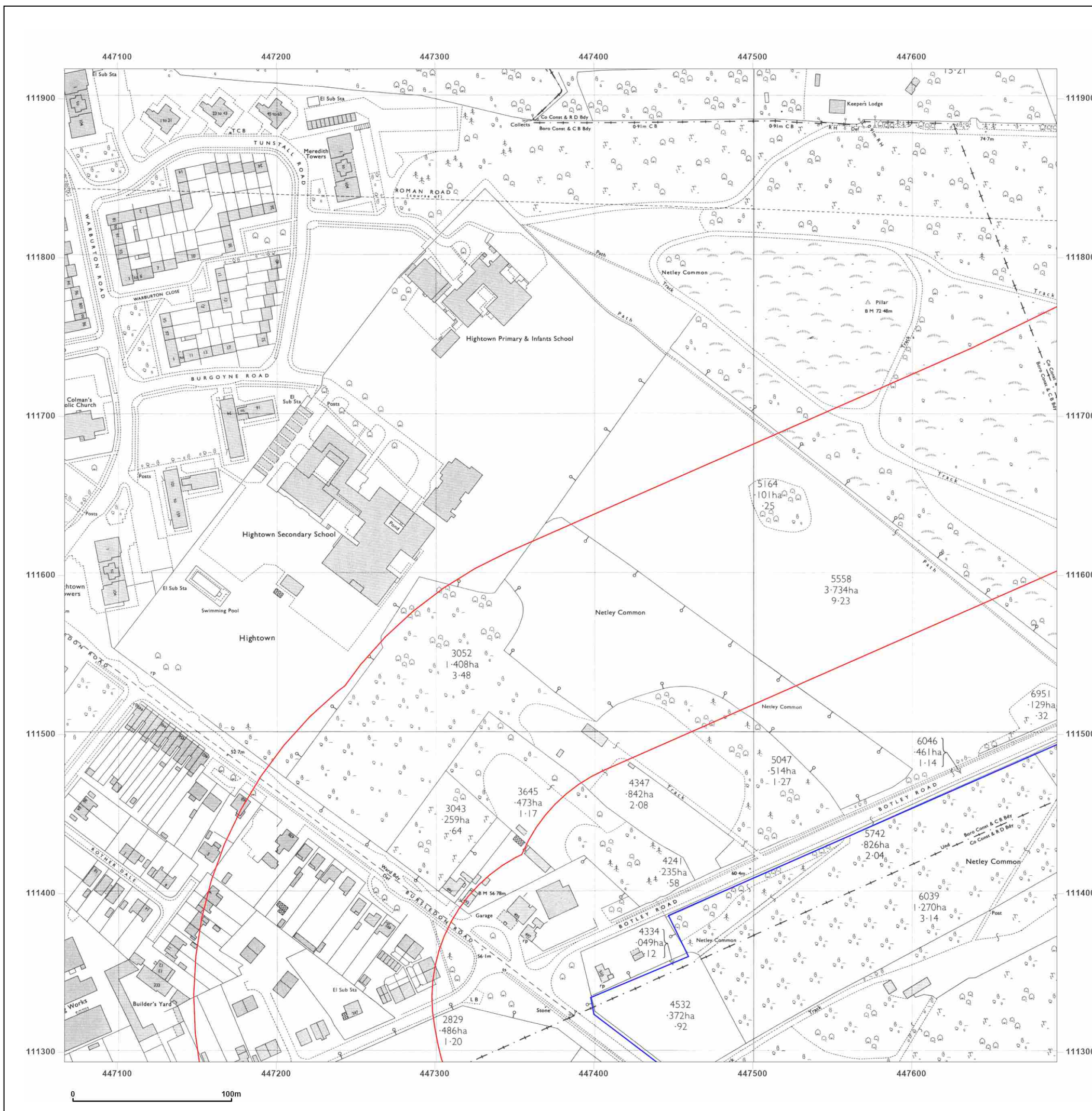


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_1_2
Grid Ref: 447379, 111606

Map Name: National Grid

Map date: 1972

Scale: 1:2,500

Printed at: 1:2,500



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

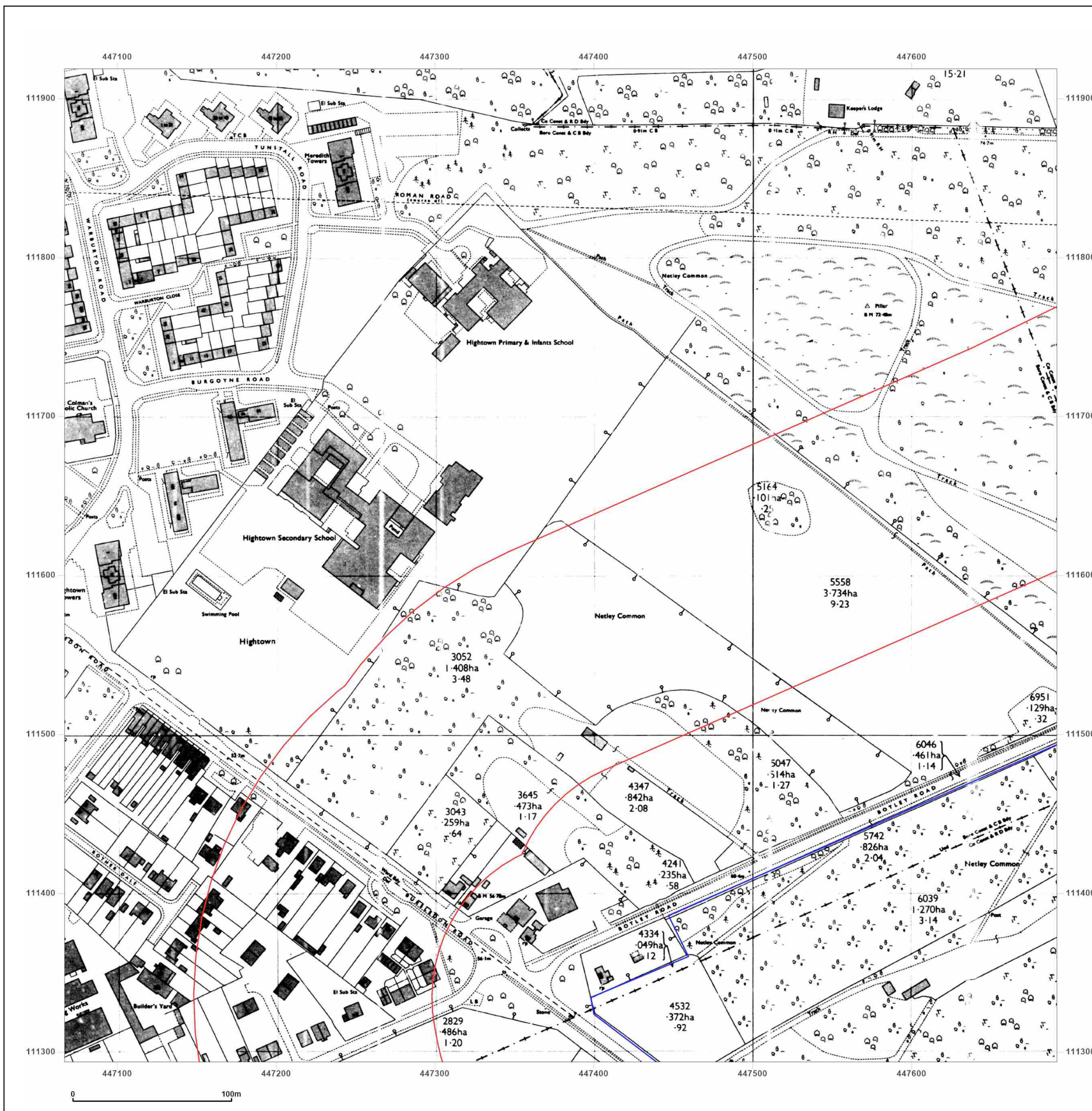


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: County Series

Map date: 1867

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

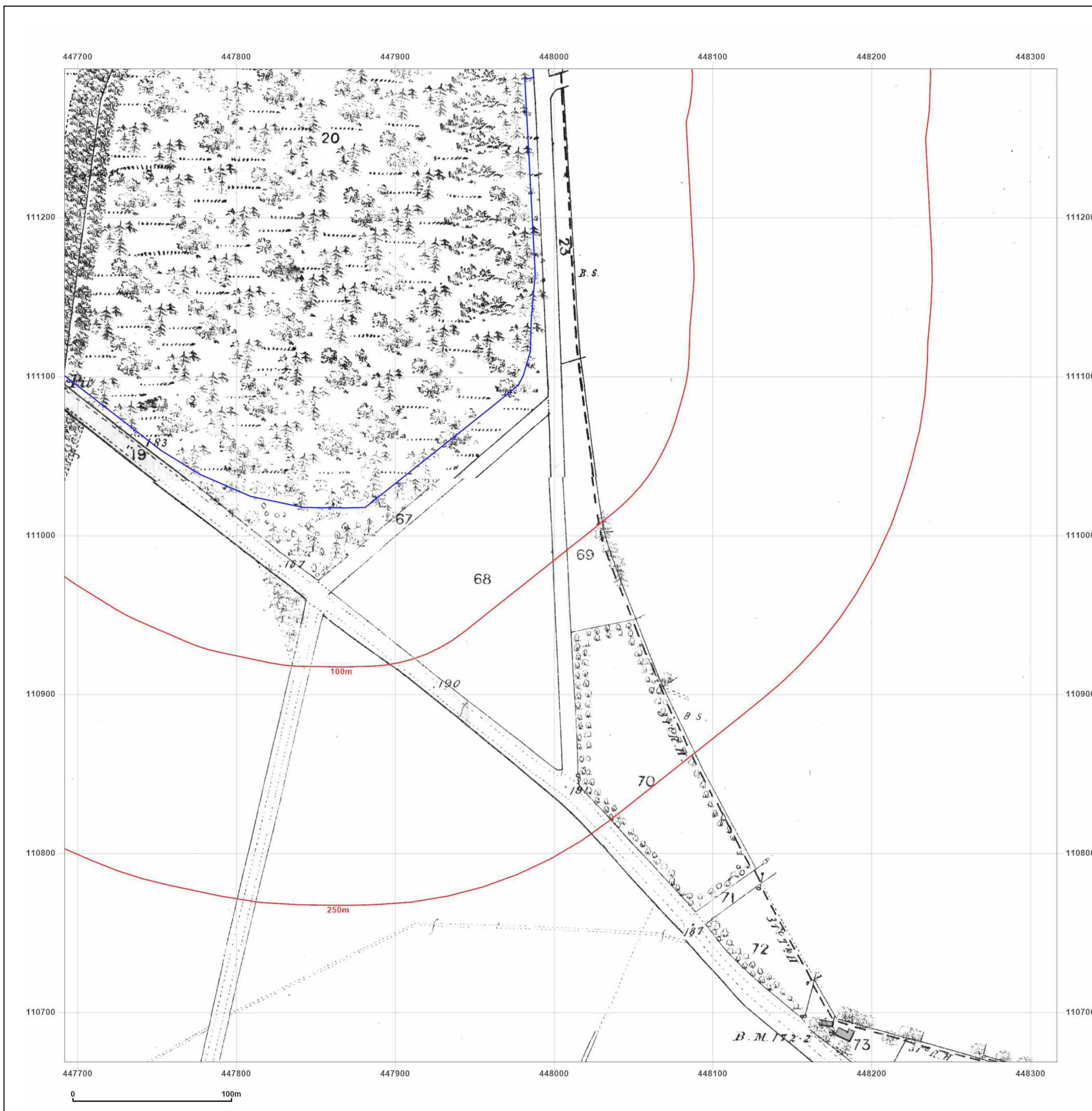


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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: County Series

Map date: 1868

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

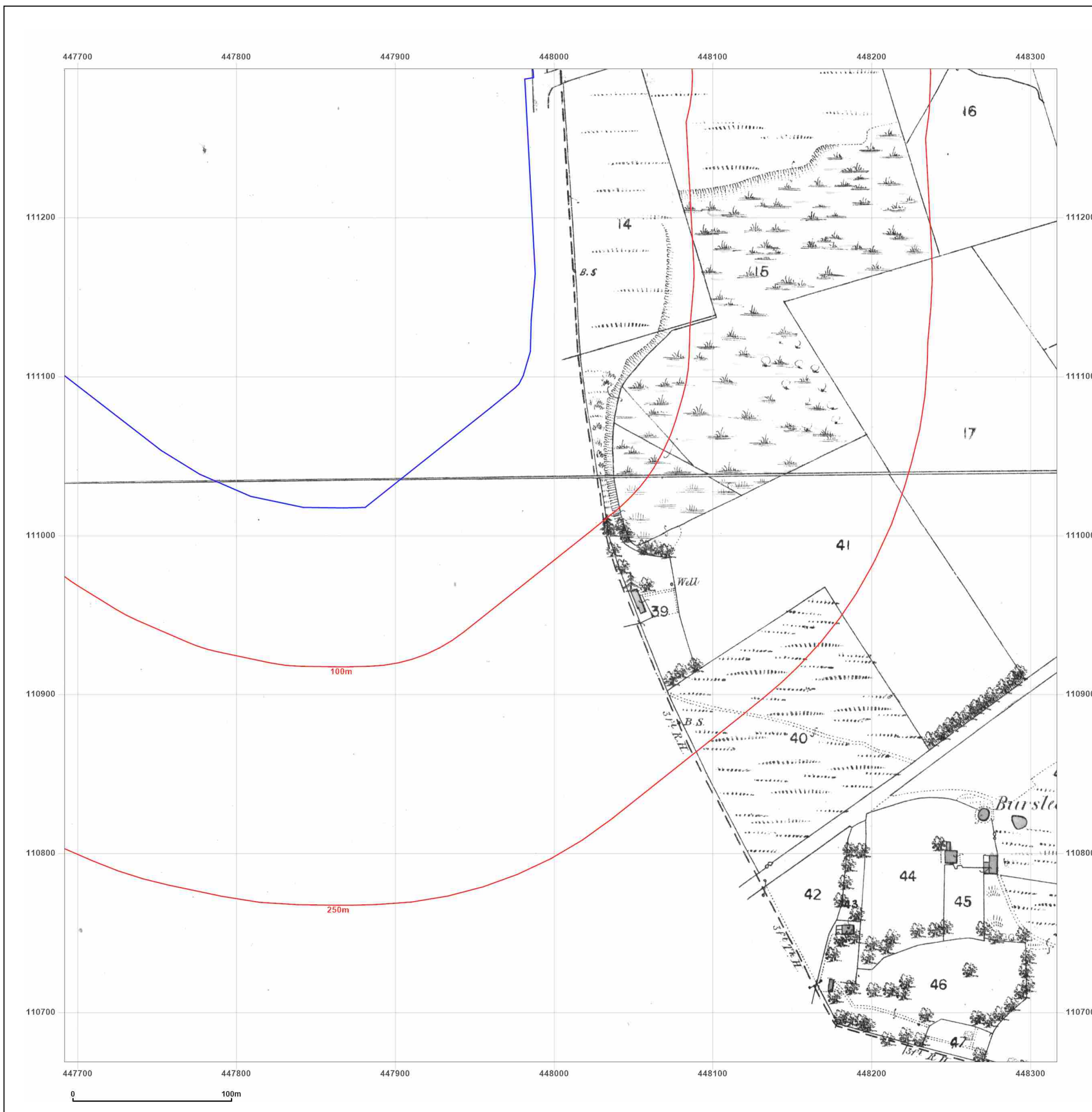


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: County Series

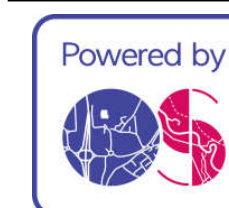
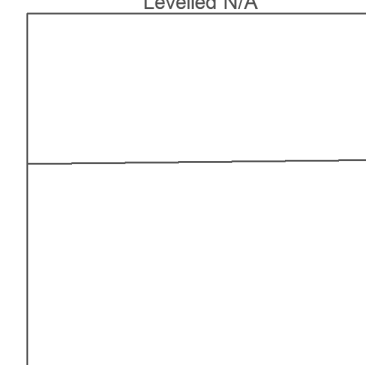
Map date: 1868

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

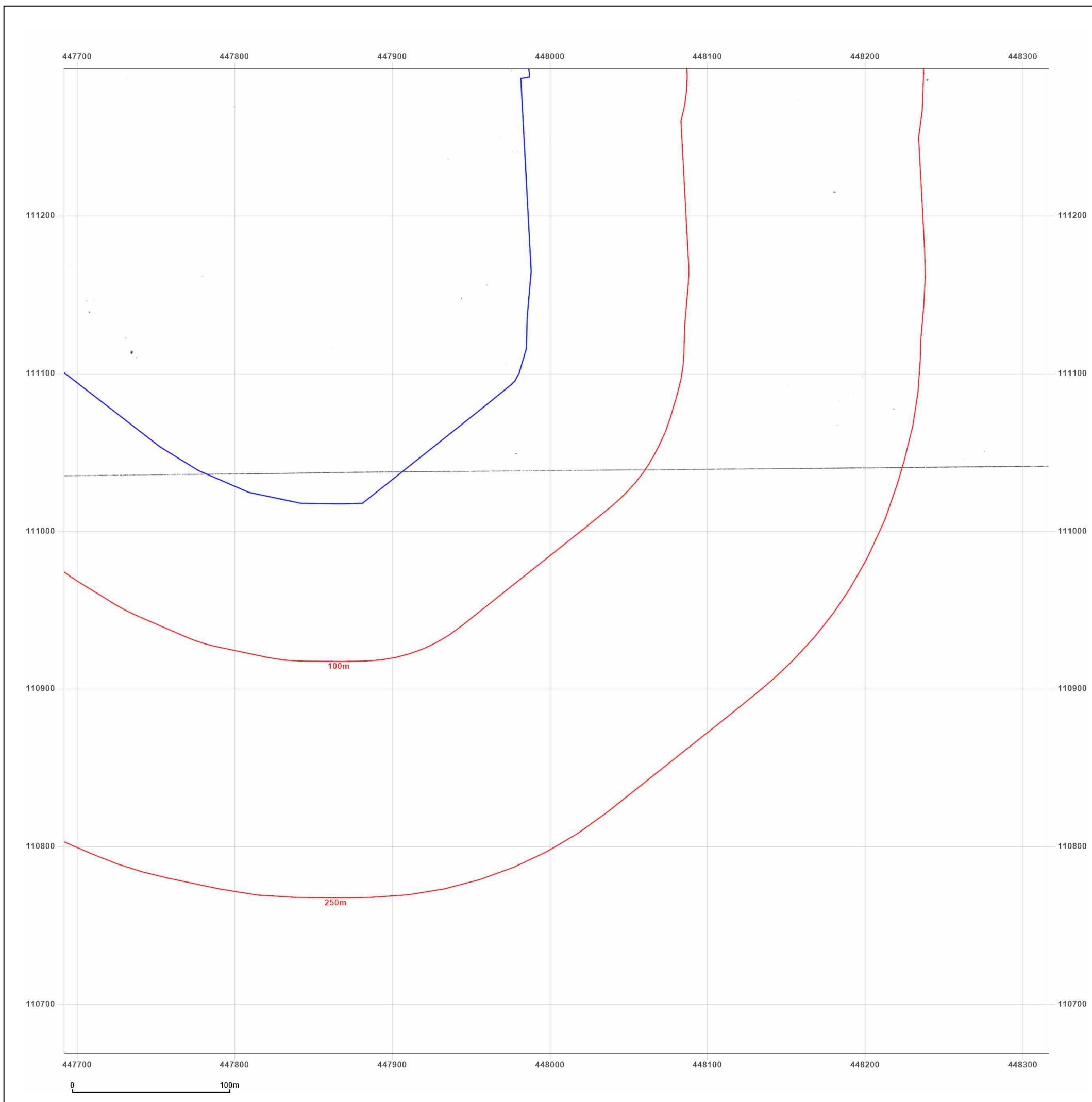


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: County Series

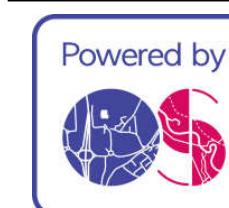
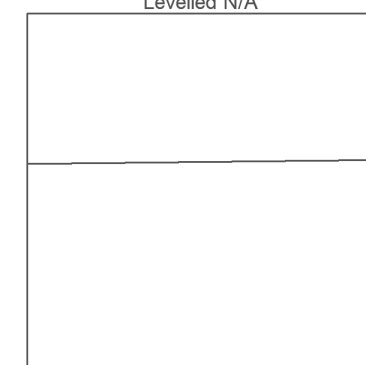
Map date: 1869

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

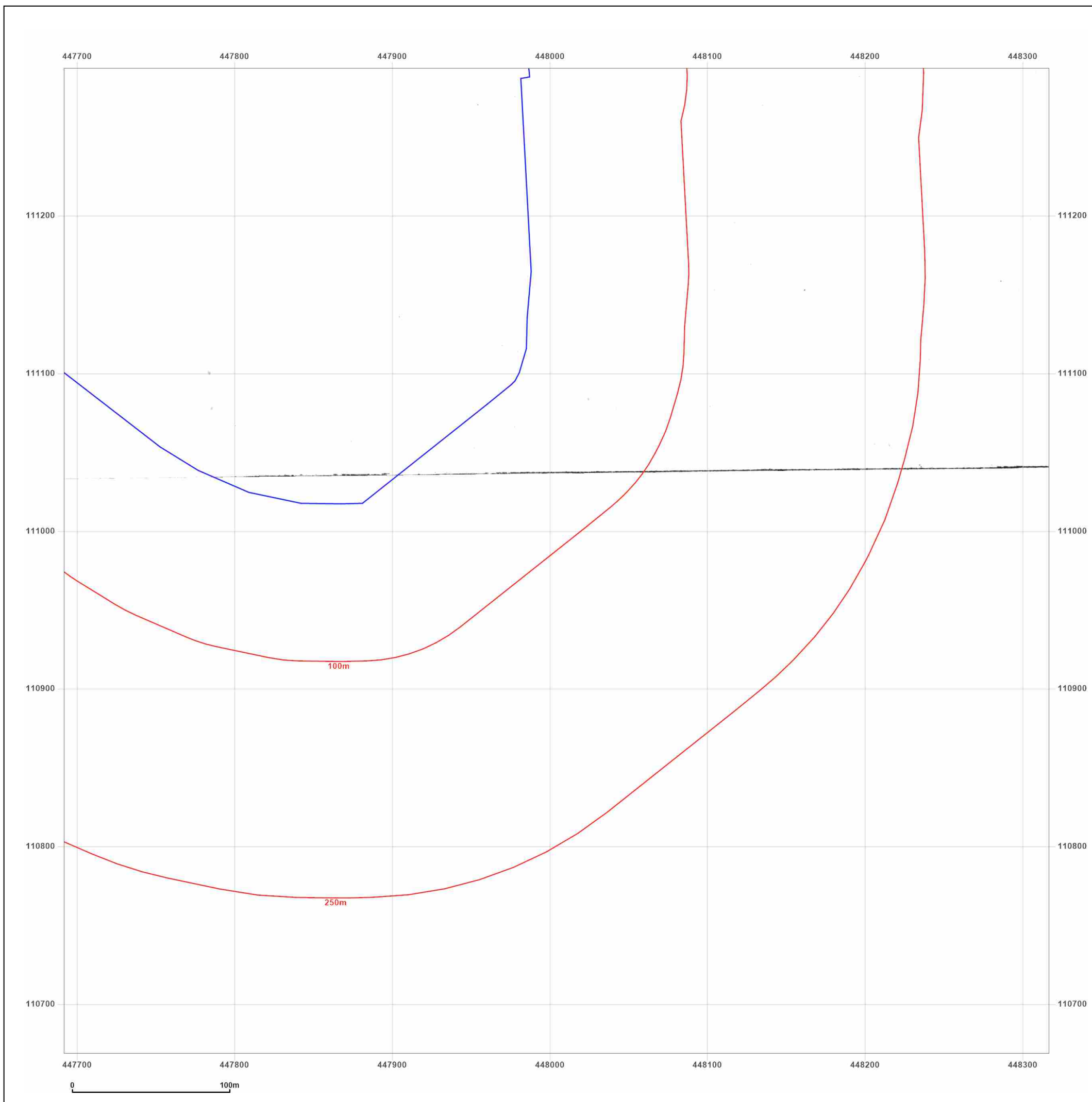


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

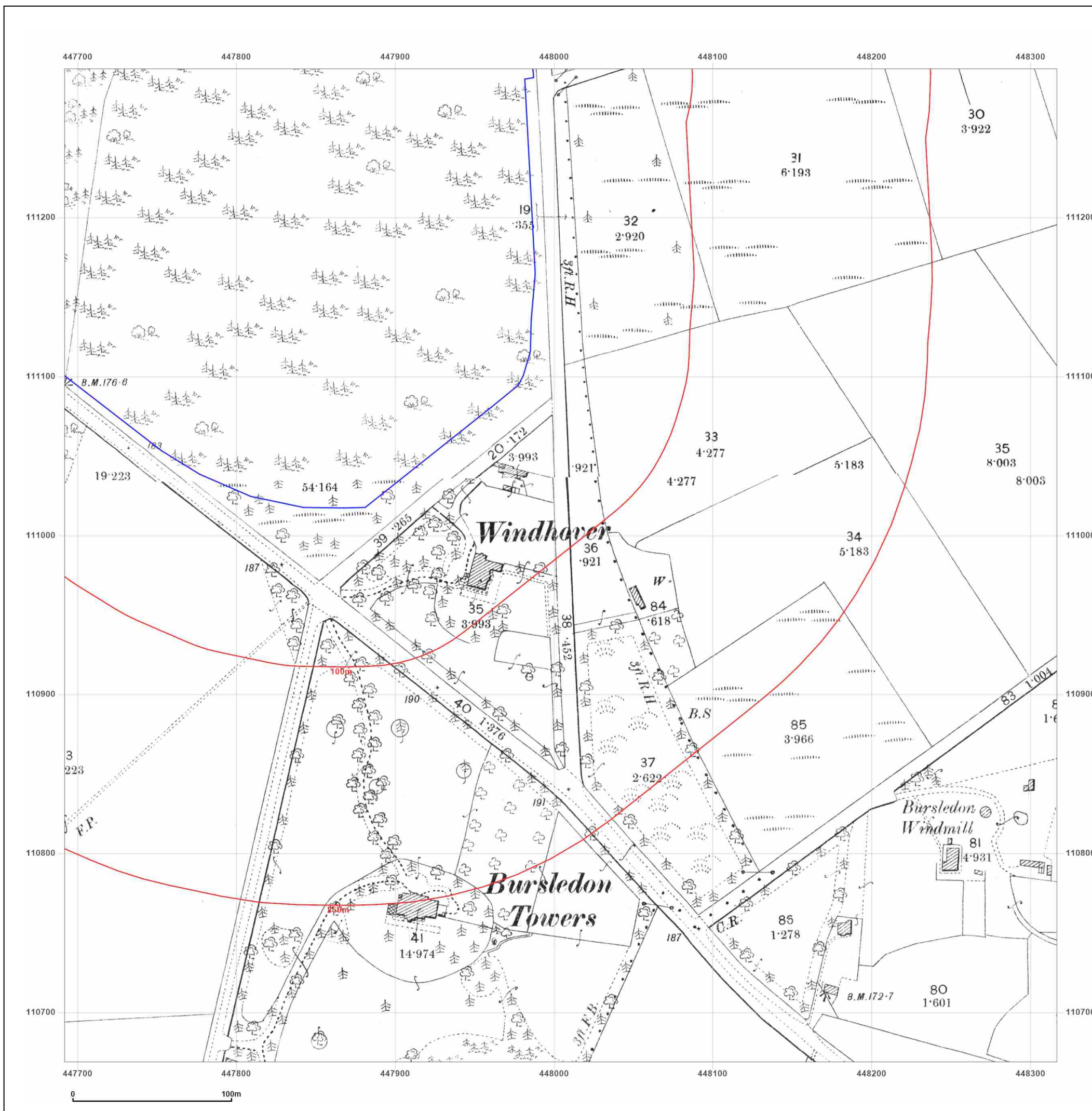


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

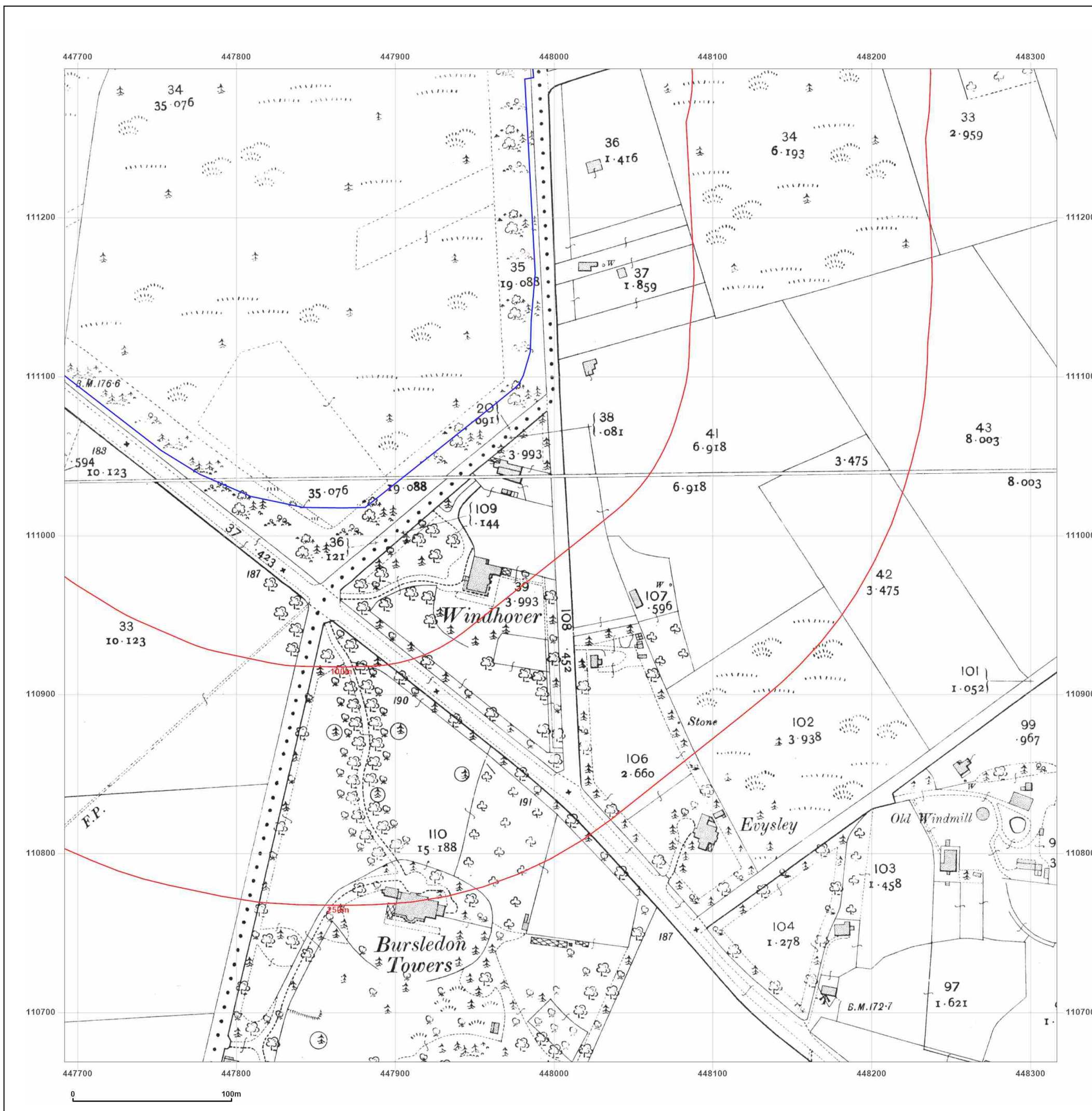


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: National Grid

Map date: 1964-1965

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

Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled N/A

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

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: National Grid

Map date: 1965

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1965
Levelled 1959

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

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1965
Levelled 1959

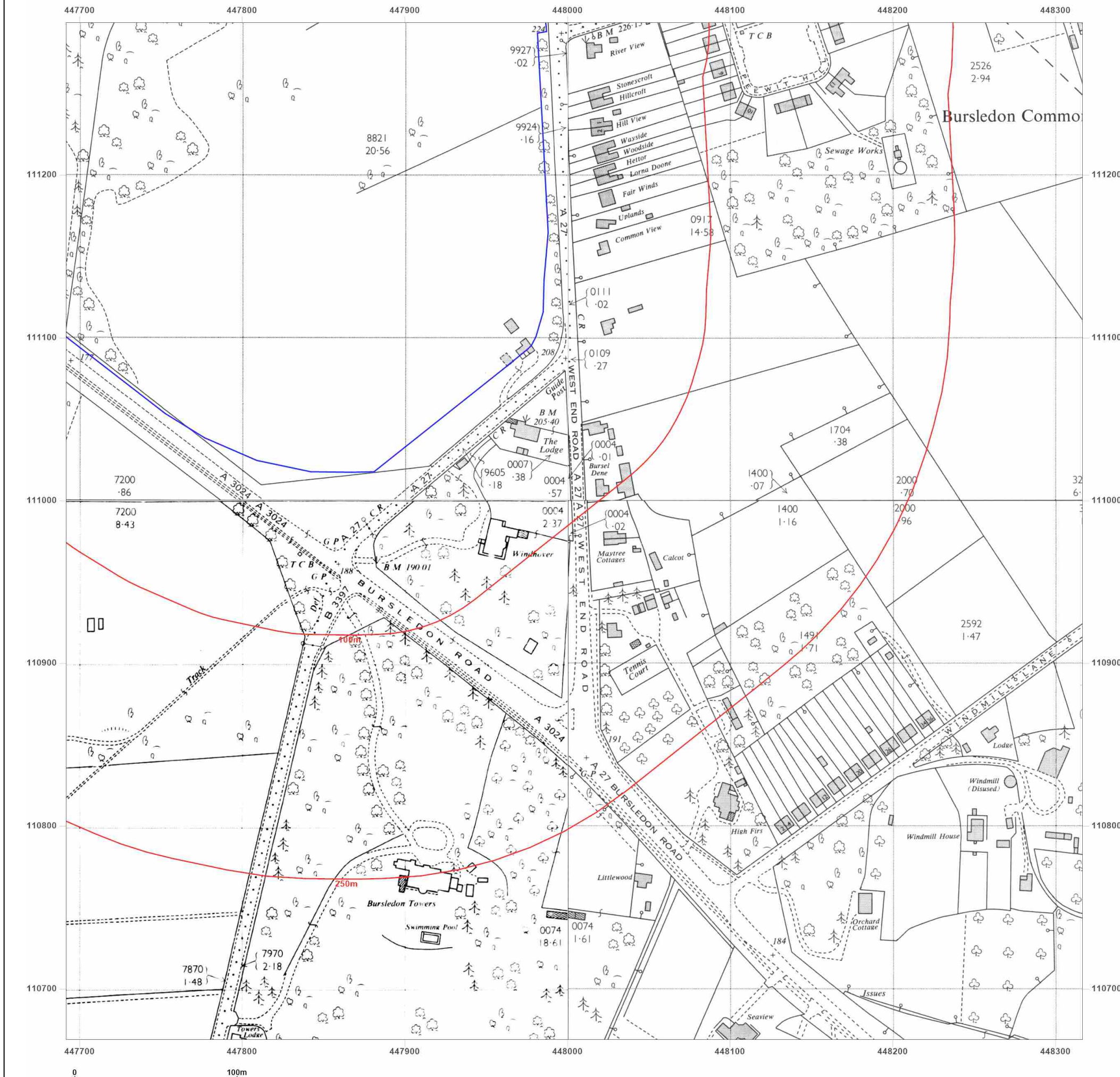


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: National Grid

Map date: 1970-1975

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
Revised 1970
Edition N/A
Copyright 1972
Levelled 1959

Surveyed 1950
Revised 1975
Edition N/A
Copyright 1977
Levelled 1959

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

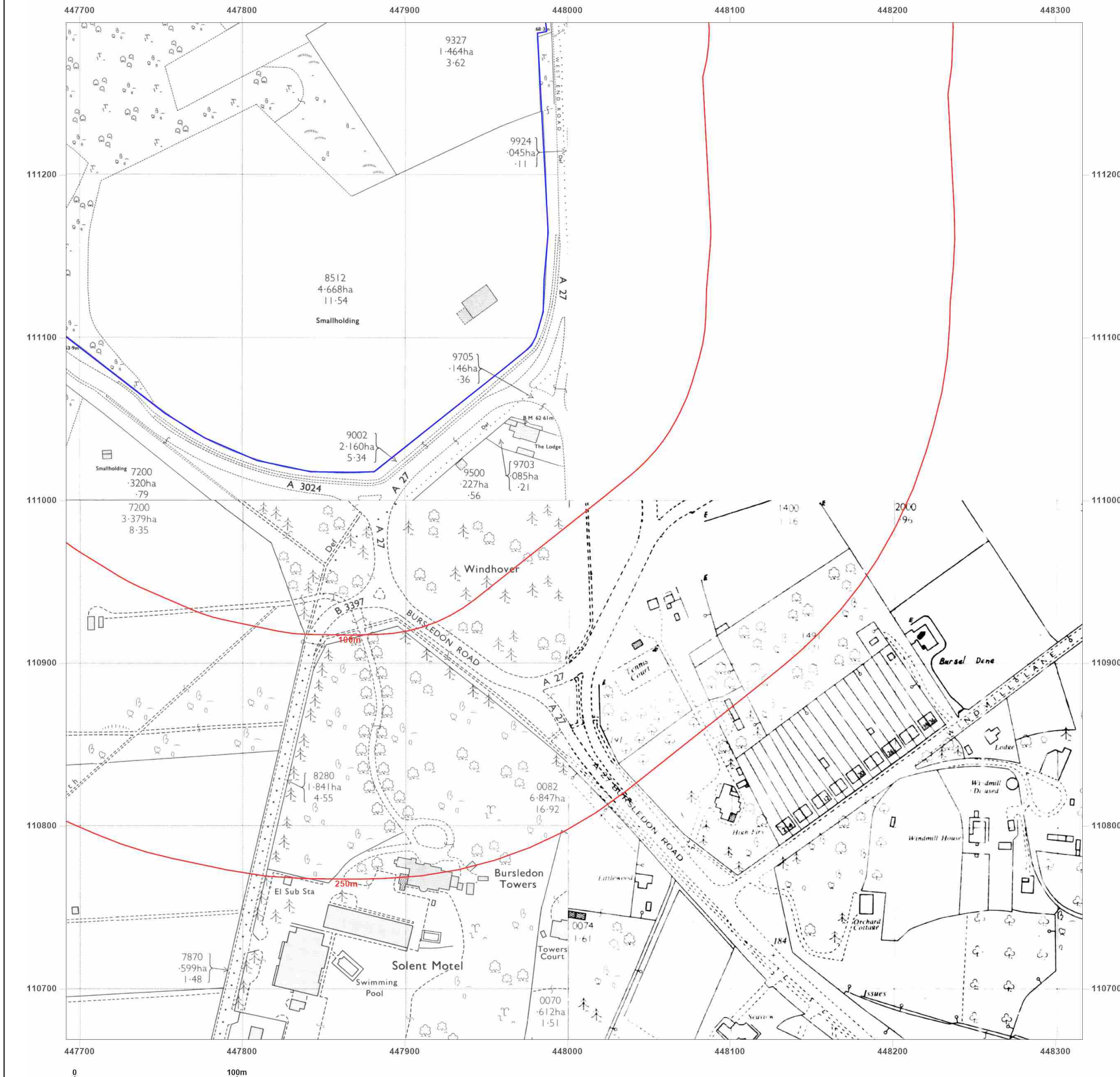


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: National Grid

Map date: 1972-1977

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

Surveyed 1976
Revised 1976
Edition N/A
Copyright 1979
Levelled 1959

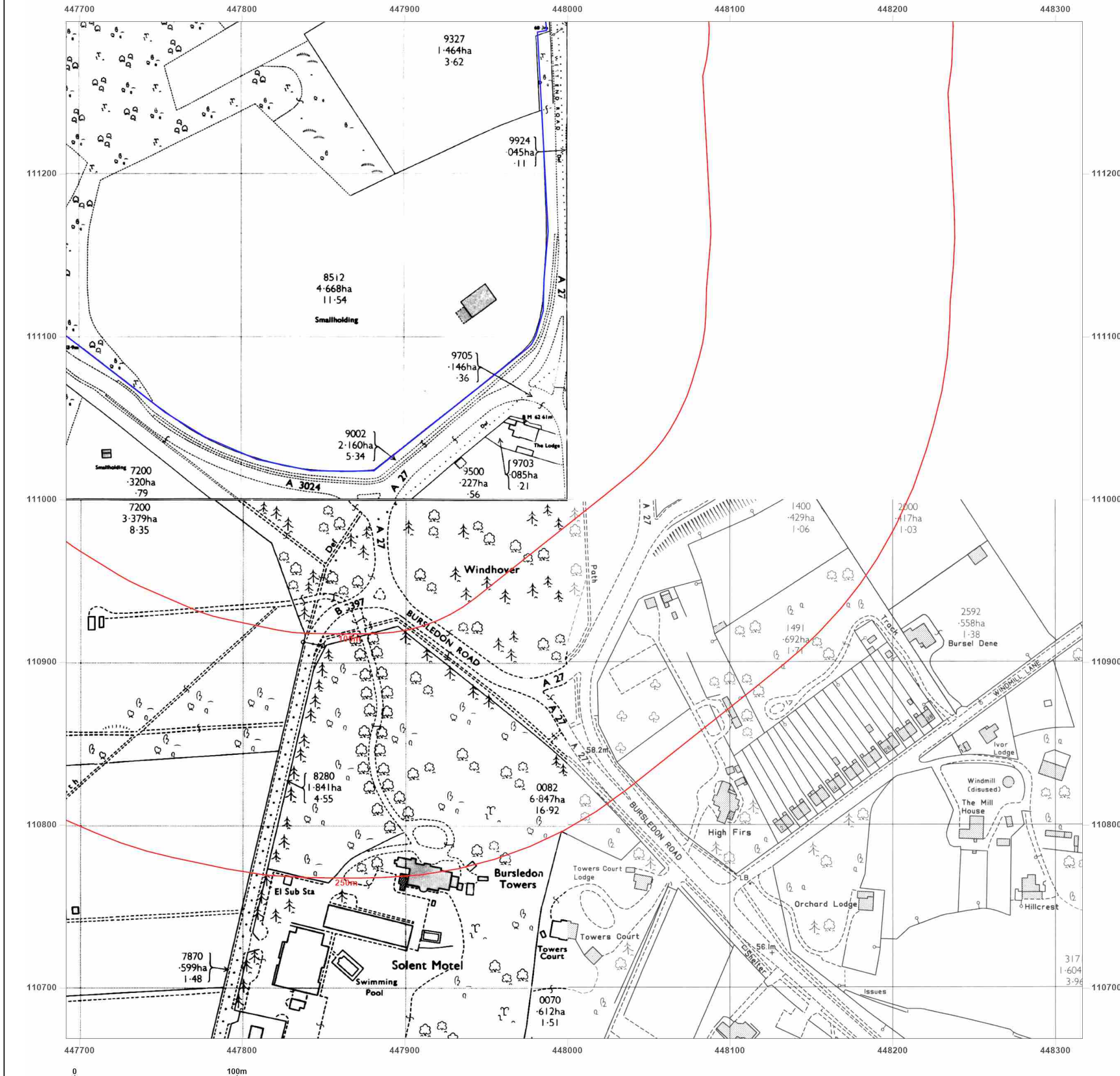


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: National Grid

Map date: 1979-1983

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1981
Revised 1983
Edition N/A
Copyright 1984
Levelled 1959

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

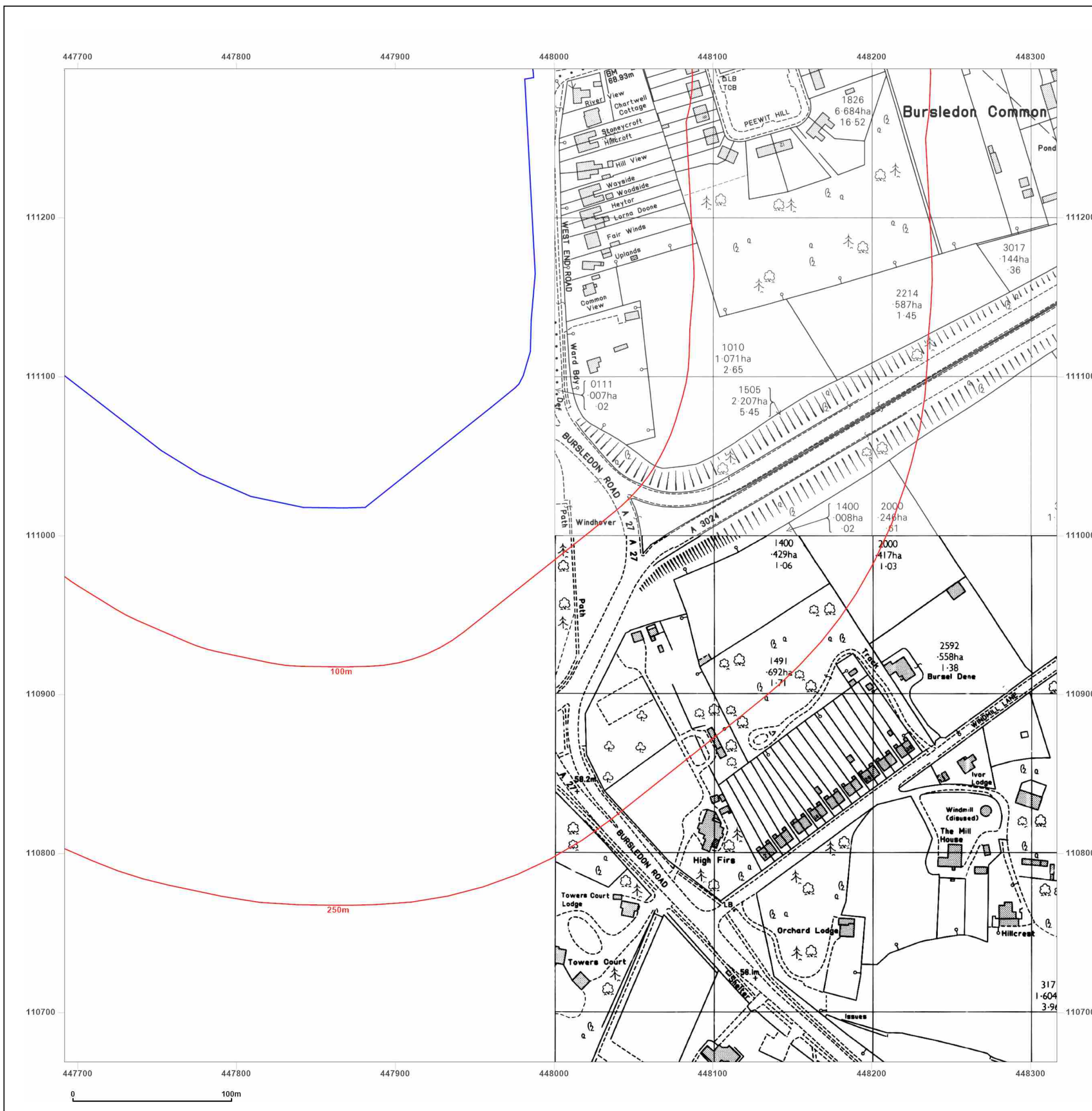


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: National Grid

Map date: 1988-1993

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1959
Revised 1988
Edition N/A
Copyright 1988
Levelled 1959

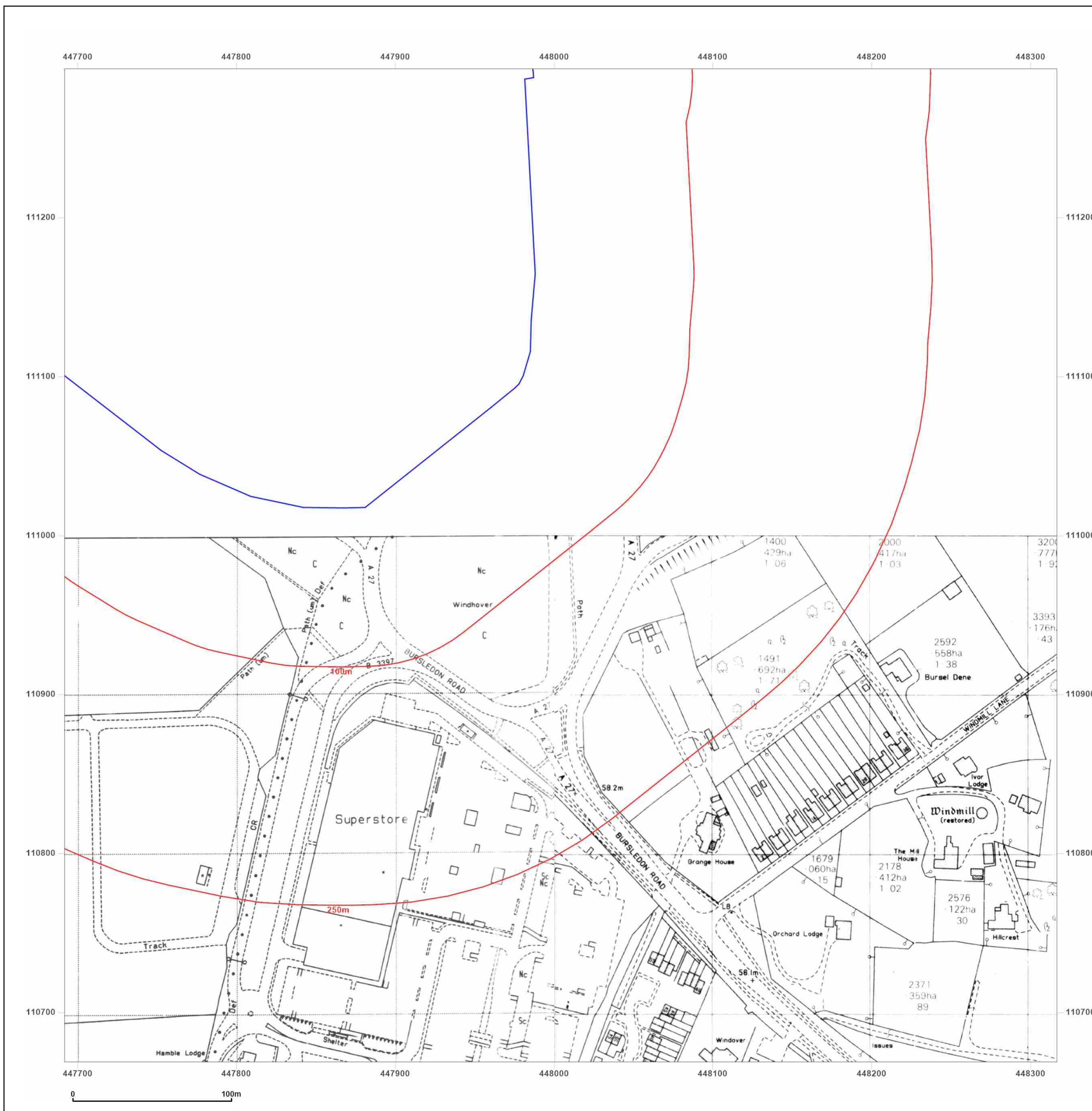


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_1
Grid Ref: 448004, 110981

Map Name: National Grid

Map date: 1988-1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1959
Revised 1988
Edition N/A
Copyright 1988
Levelled 1959

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

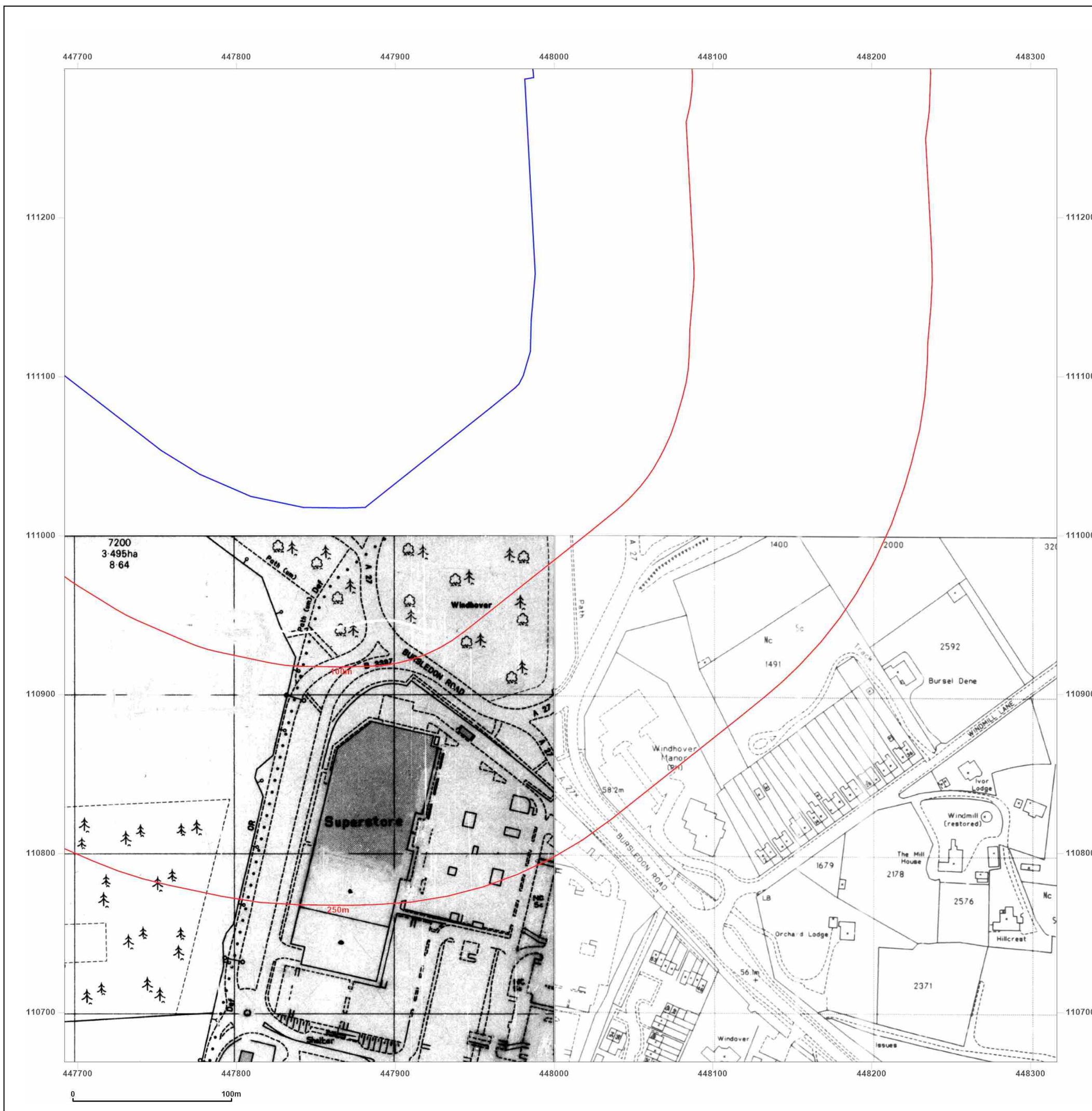


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: County Series

Map date: 1867

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

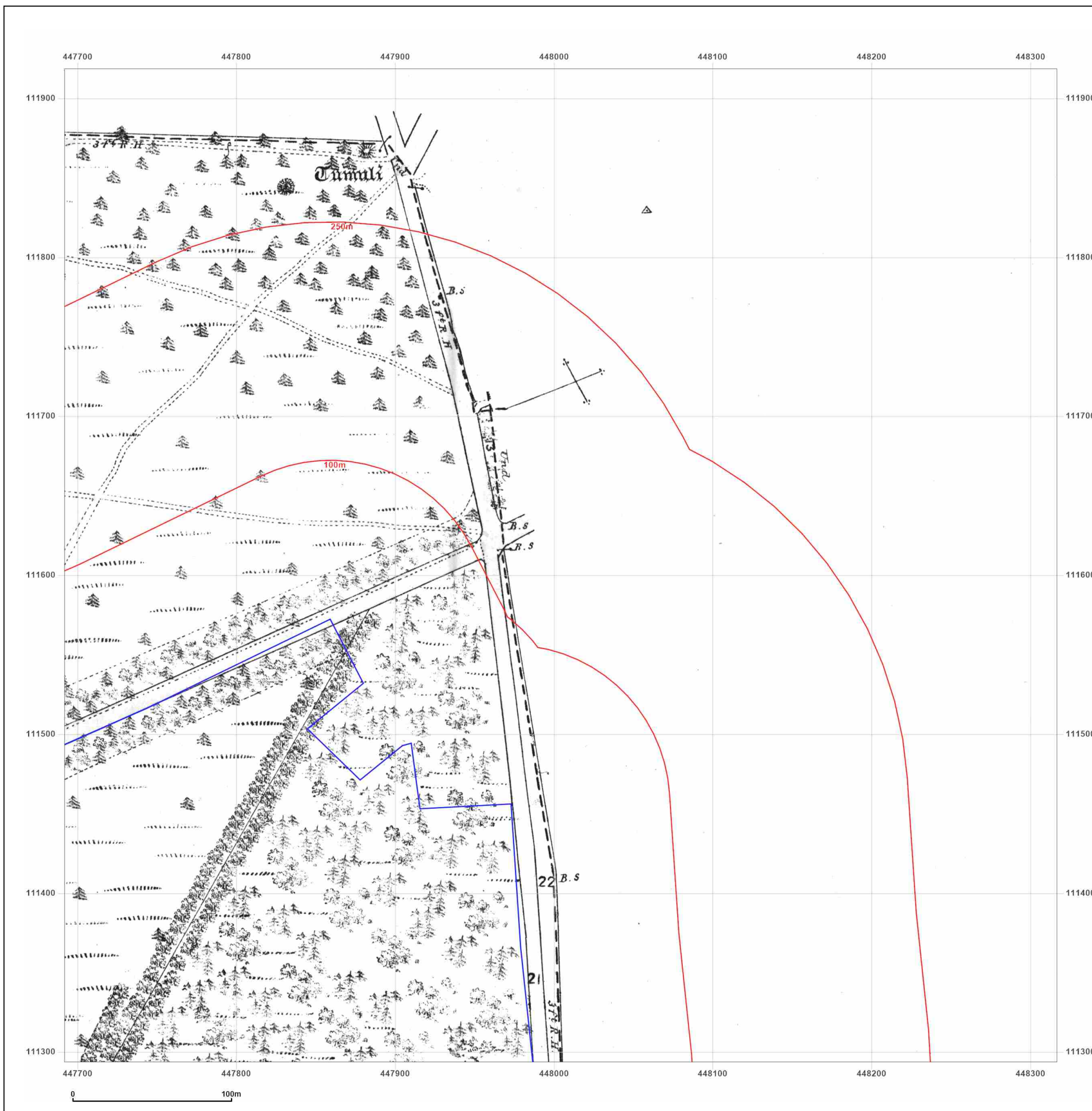


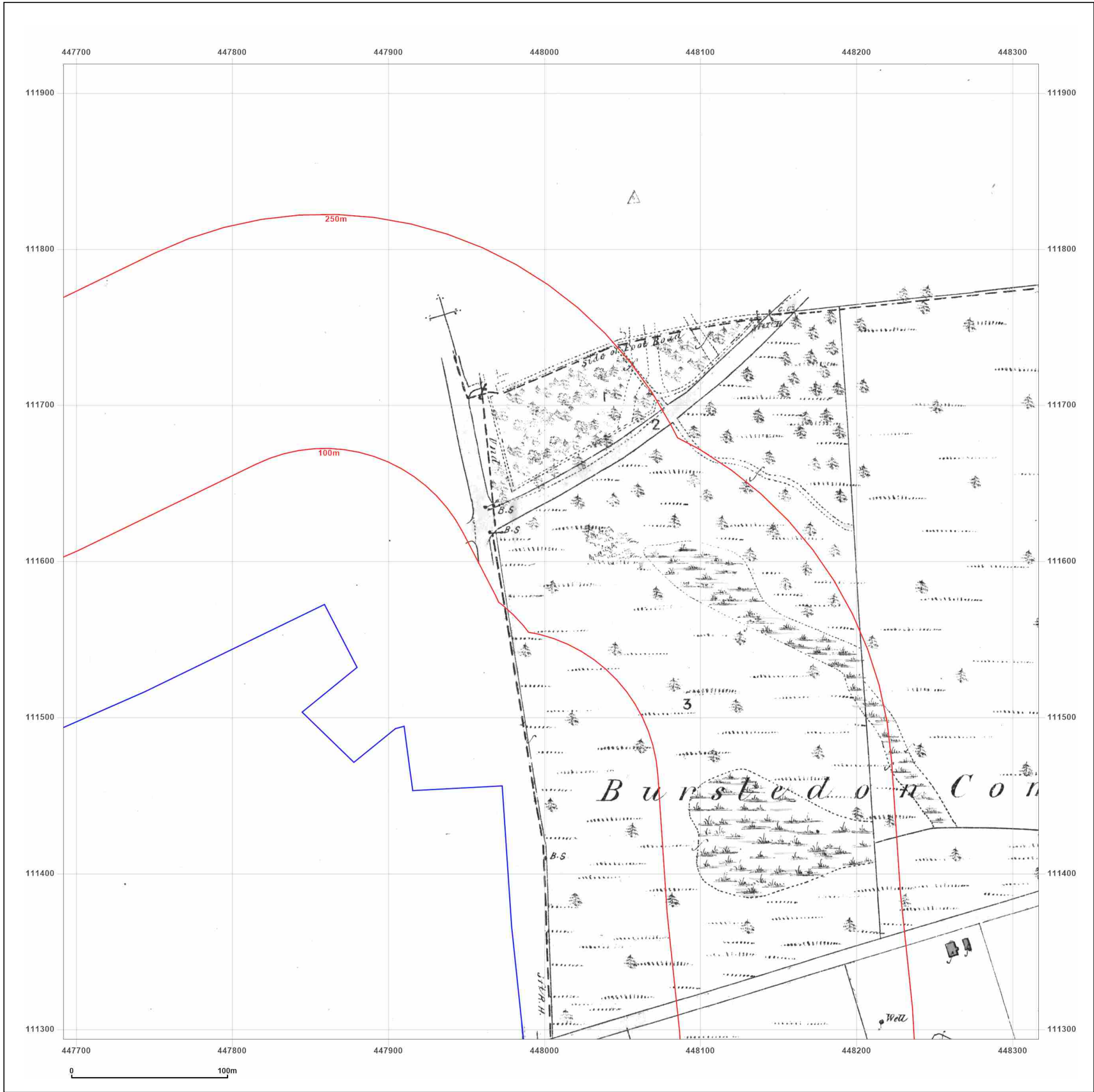
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Site Details:

WEST END ROAD, BURSLEDON,
SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: County Series
Map date: 1868
Scale: 1:2,500
Printed at: 1:2,500

Map Legend:

- 1. 250m Contour
- 2. 100m Contour
- 3. Bursledon

Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

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Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: County Series

Map date: 1868

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1868
Revised 1868
Edition N/A
Copyright N/A
Levelled N/A

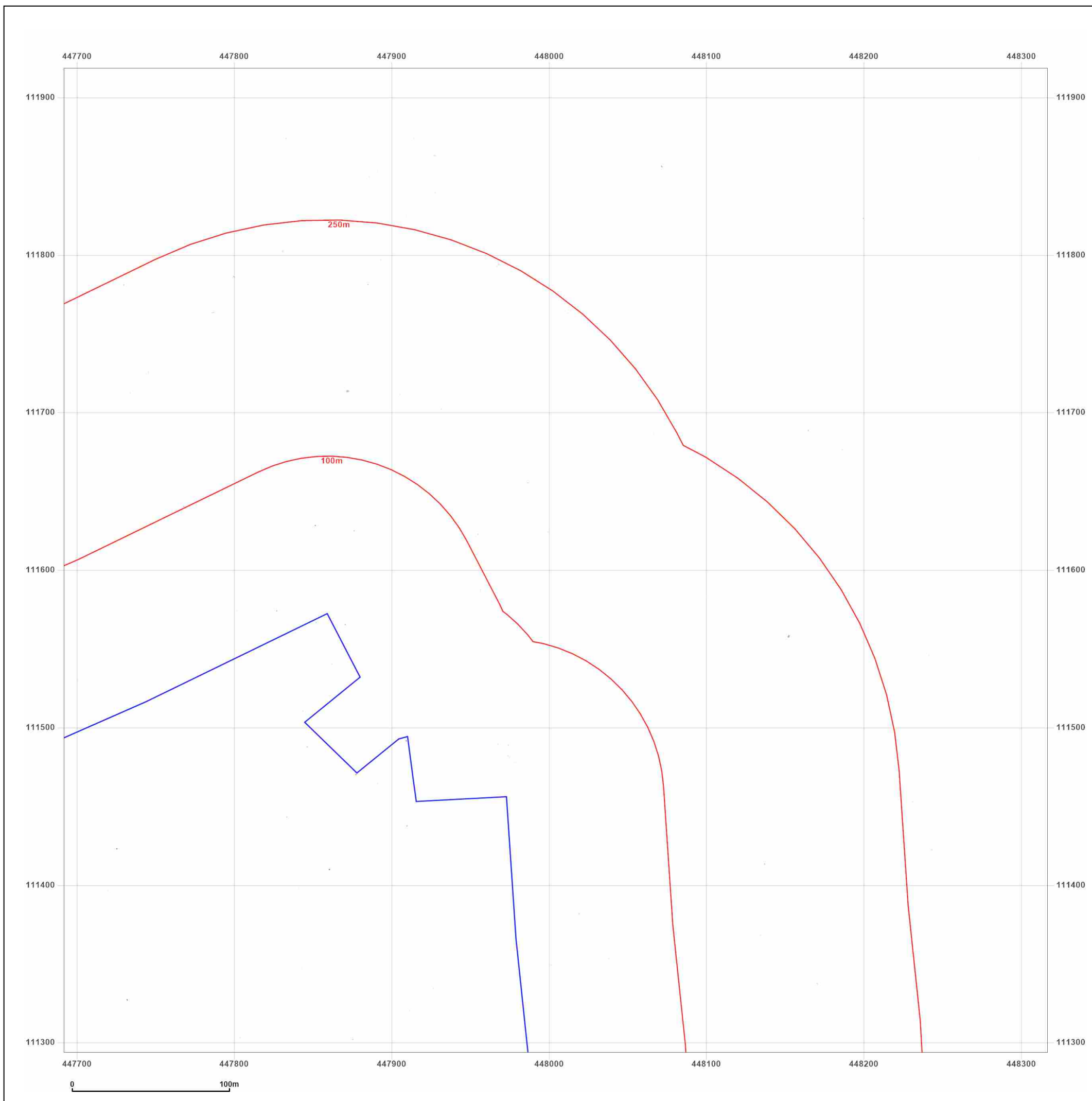


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: County Series

Map date: 1869

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
Levelled N/A

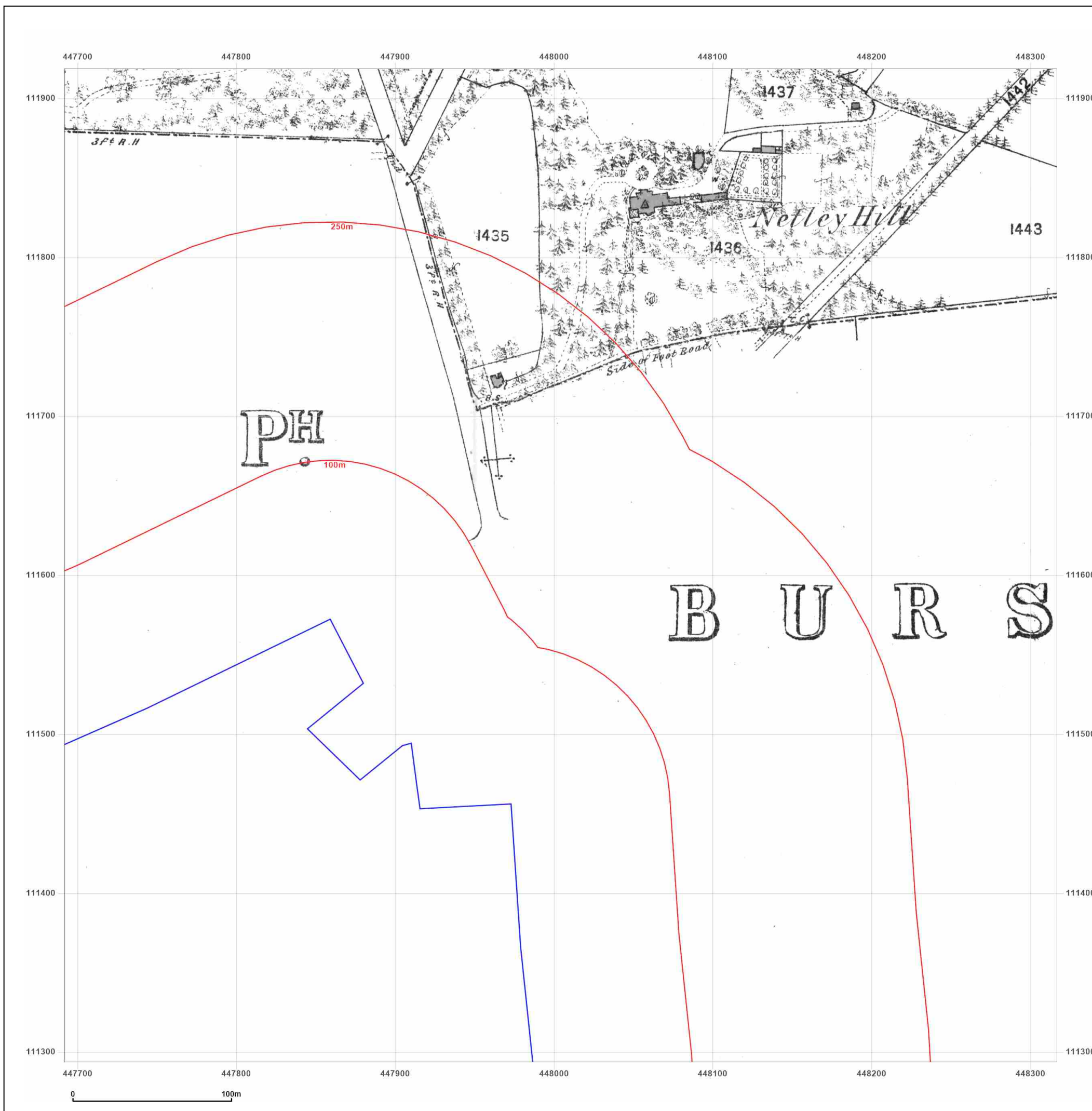


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

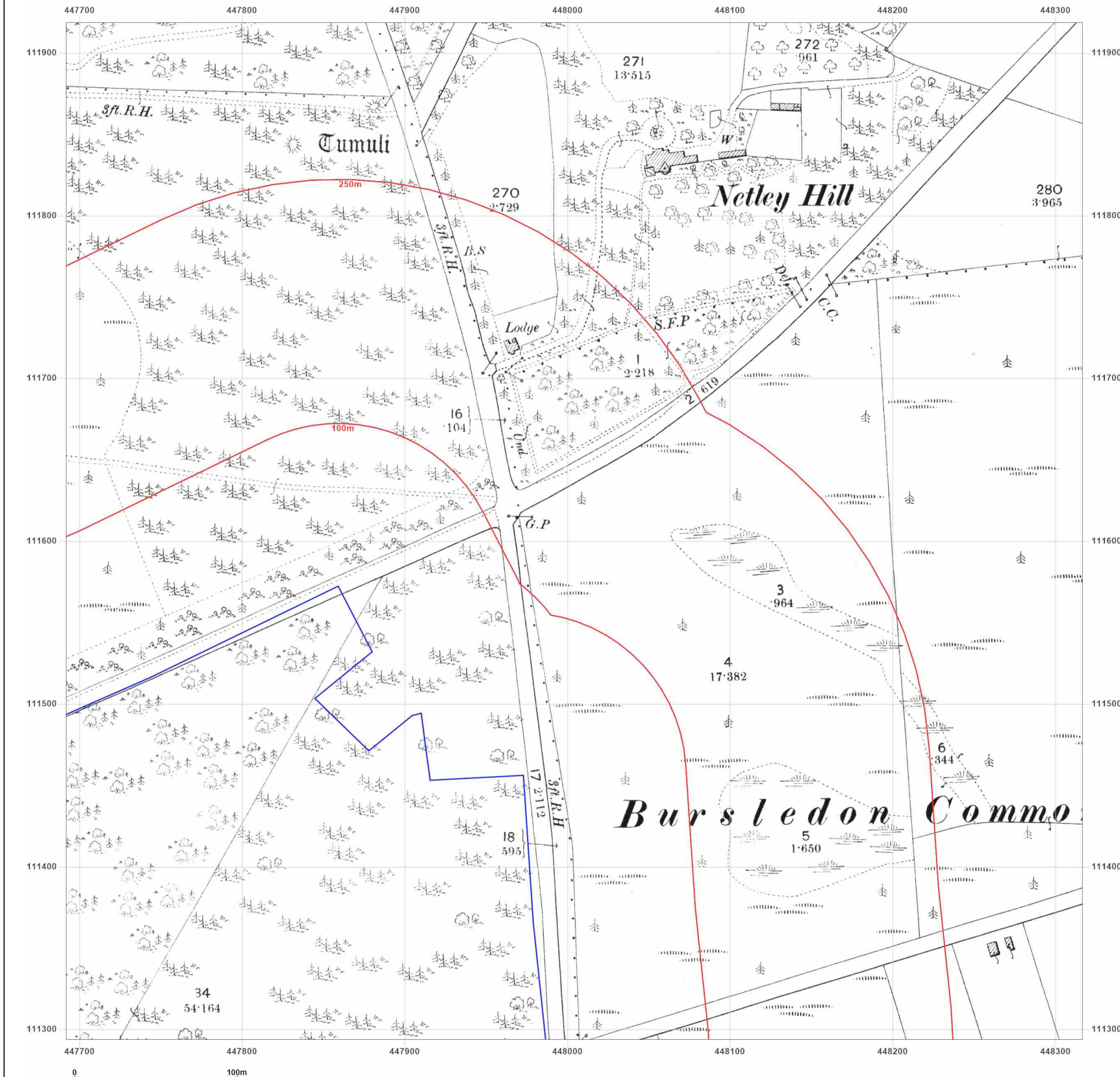


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

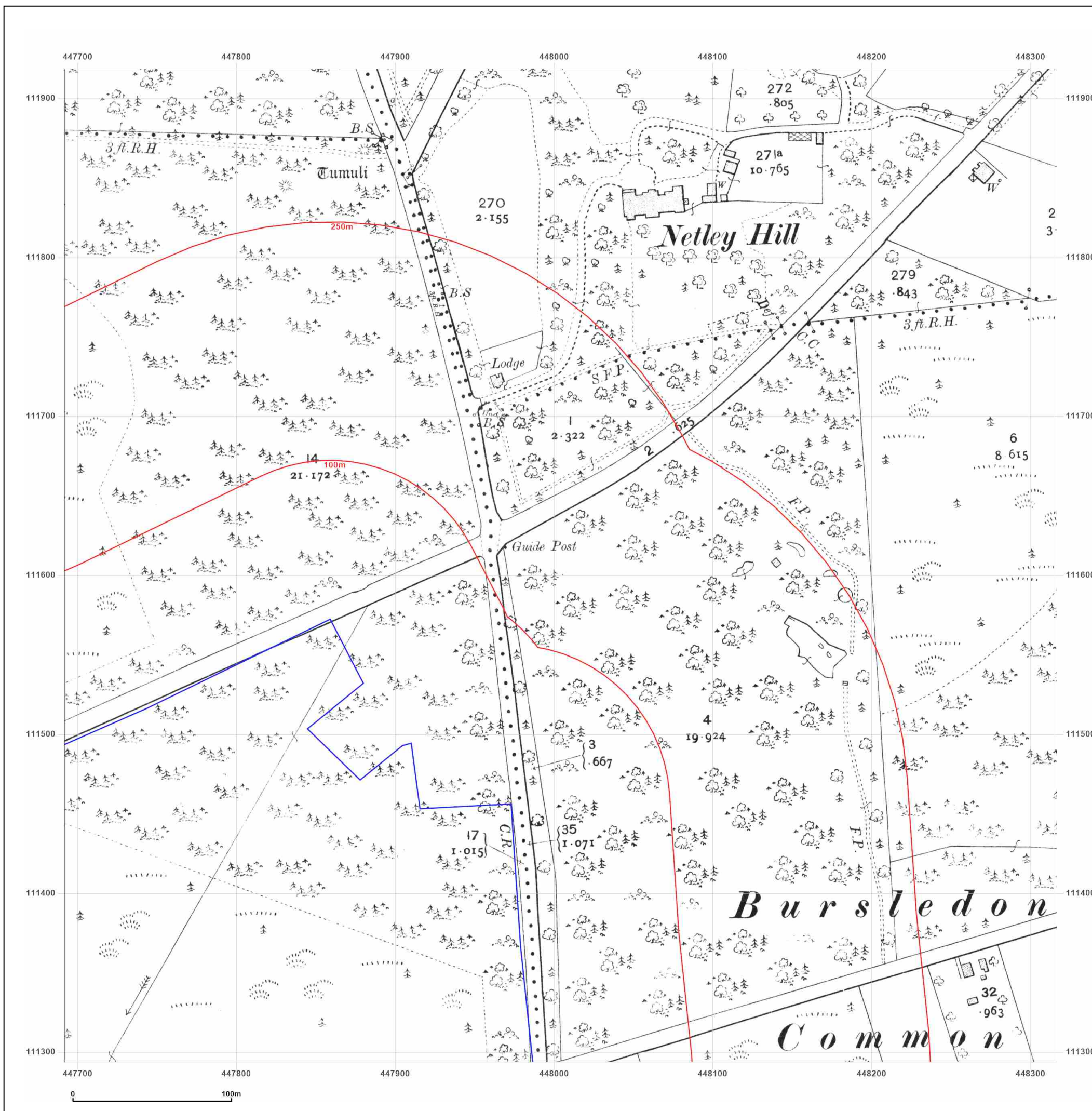


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: National Grid

Map date: 1965

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

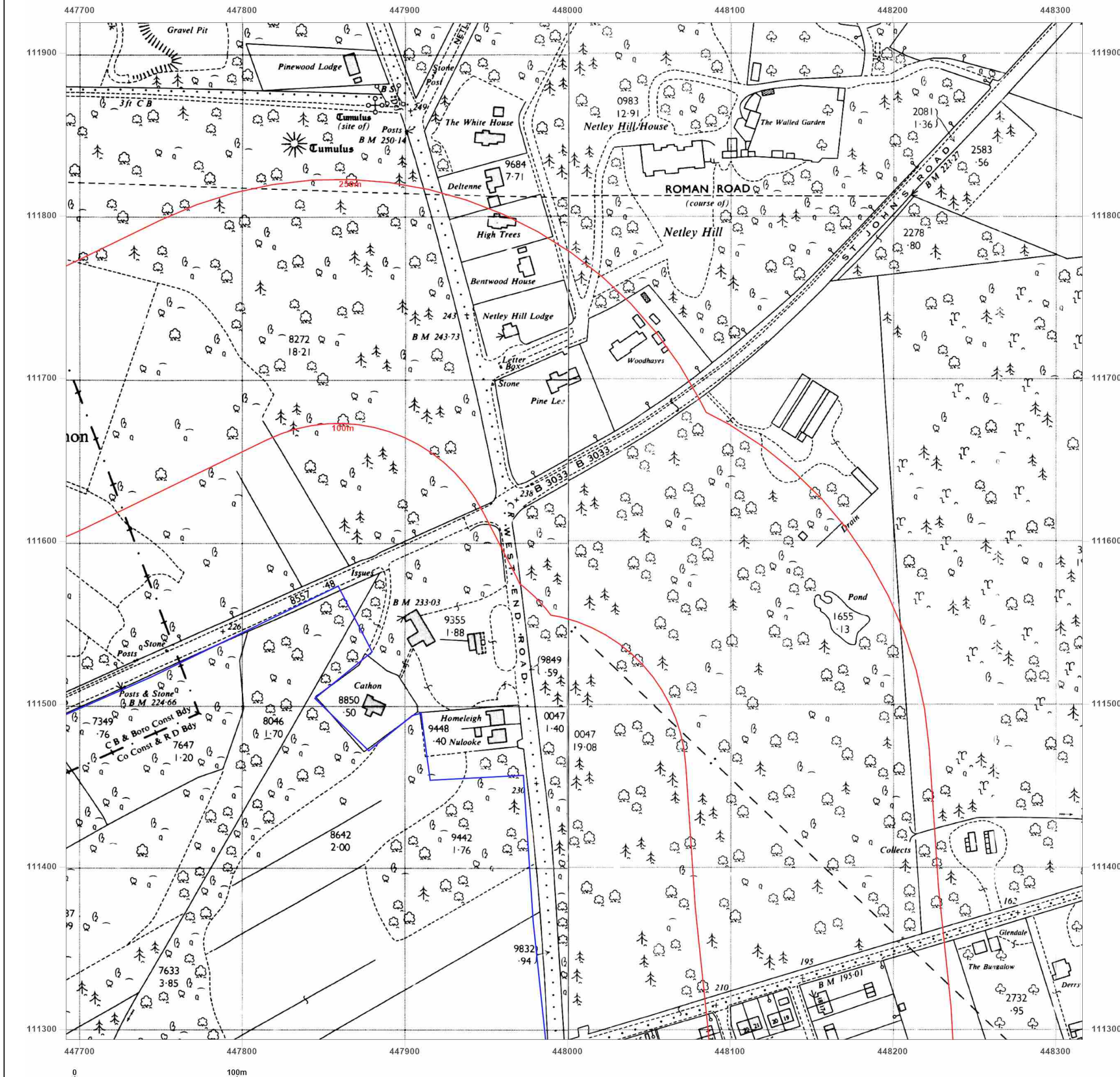


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: National Grid

Map date: 1965

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1965
Levelled 1959

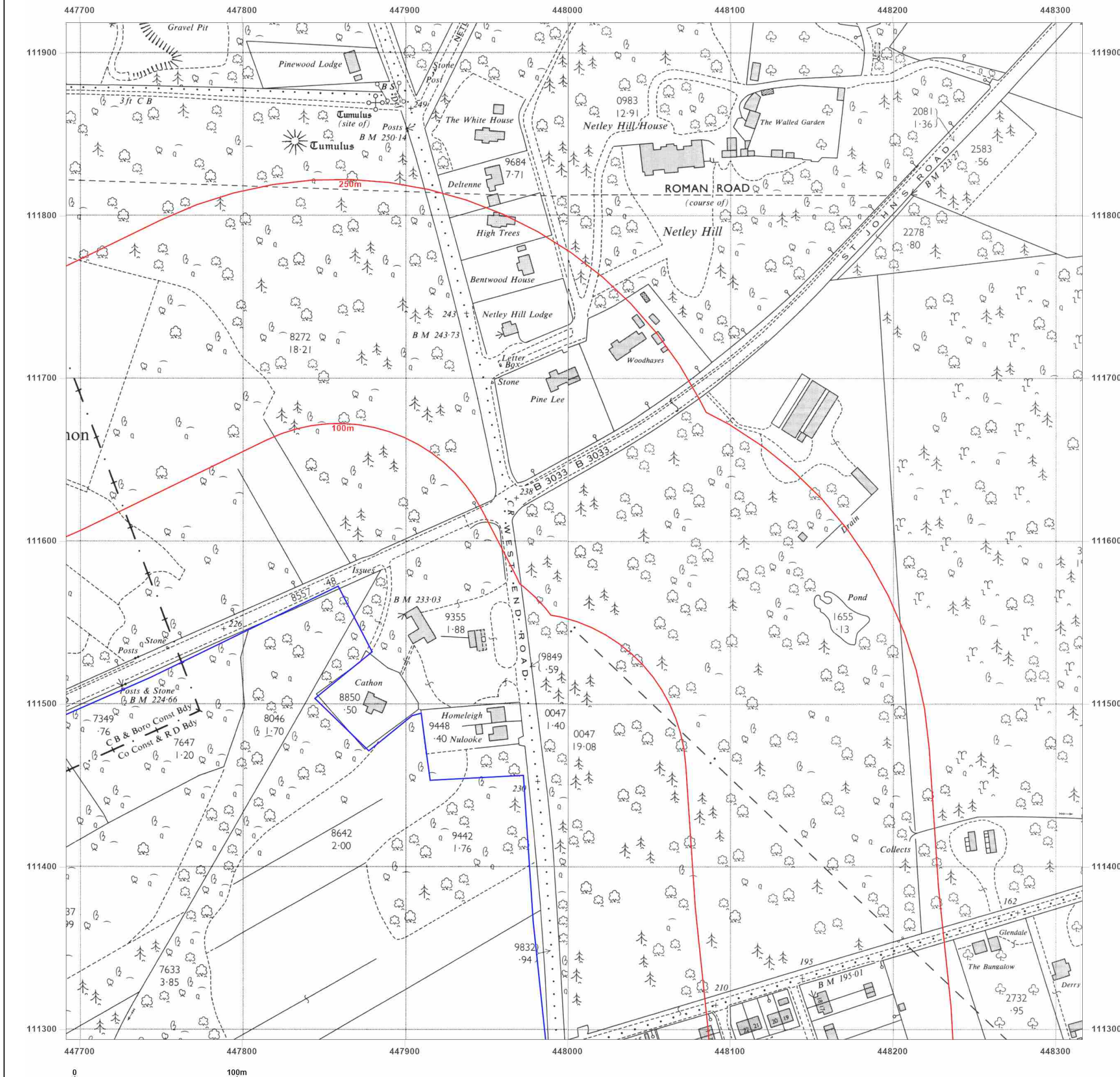


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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
Revised 1970
Edition N/A
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Site Details:

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: National Grid

Map date: 1972

Scale: 1:2,500

Printed at: 1:2,500



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

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SO31 8BN

Client Ref: 7025
Report Ref: GS-2F5-V7L-3KE-C82_LS_2_2
Grid Ref: 448004, 111606

Map Name: National Grid

Map date: 1983

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1981
Revised 1983
Edition N/A
Copyright 1984
Levelled 1959

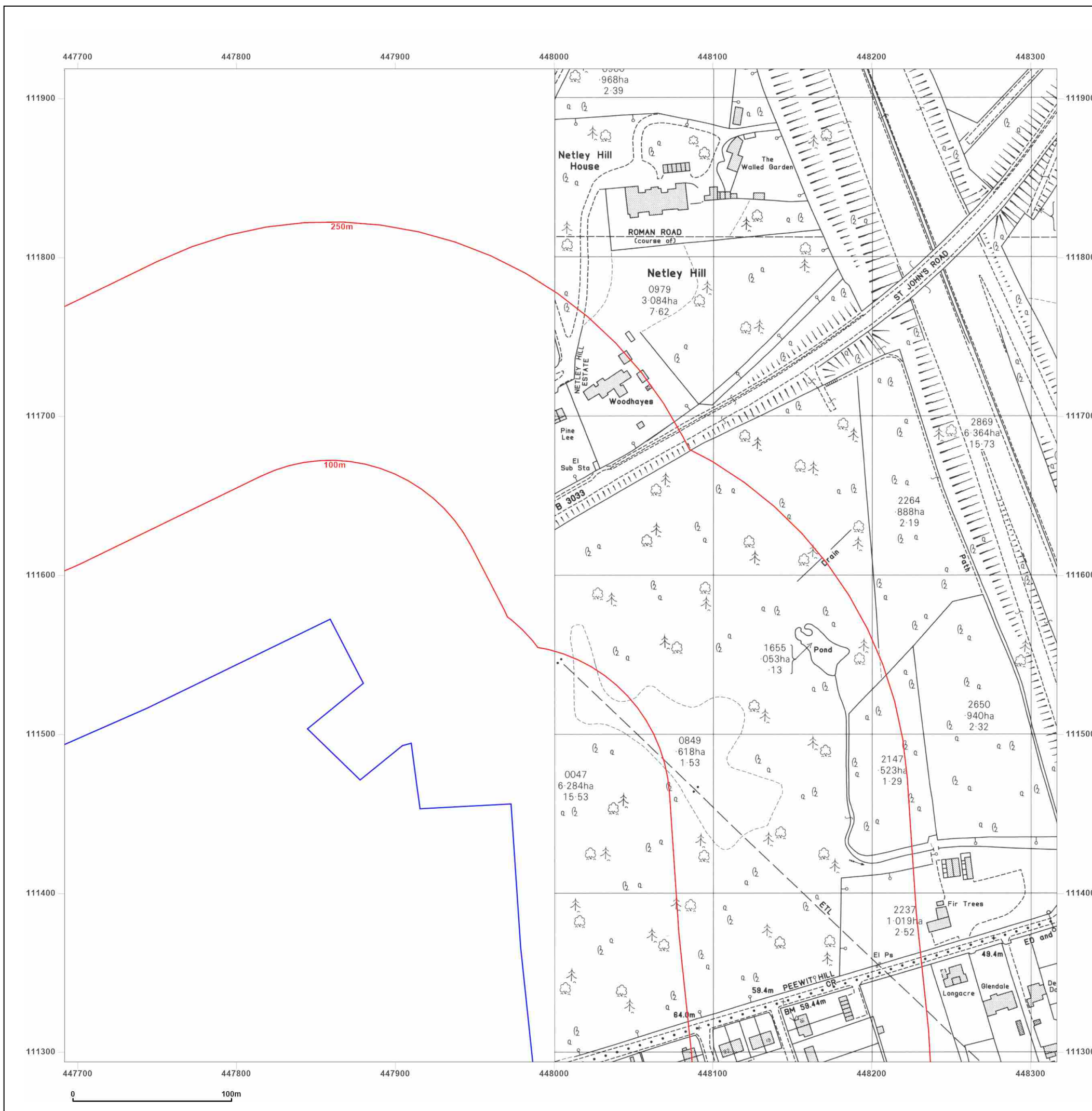


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Borehole Log

BH14

Page 1 of 2

Project Name: M27 Junction 8 Project No: 16957

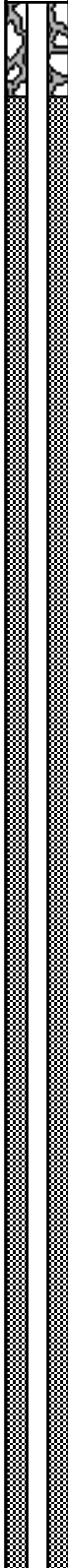
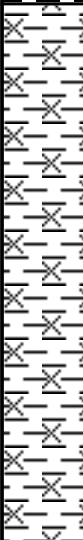
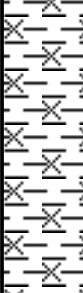
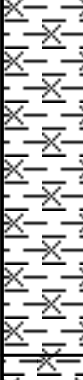
Borehole ID: BH14

Location: M27 Junction 8, Burseldon, Southampton SO31 Co-ords (British National Grid): 447894 - 111037 Level: 59.84

Hole Type: CP Logged By: Dates: -

Client: Interserve Construction Contractor: Project Engineer: Tom Rees-Blanchard

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
				N=8 (1,1/2,2,2,2)	0.50	59.34		Dark brown sandy gravelly SILT Sand is fine Gravel is sub angular and sub rounded fine to coarse flint Rare brick fragments MADE GROUND	0.5
					0.90	58.94		Light brown very sandy CLAY Sand is fine to coarse WITTERING FORMATION	1.0
					1.20	58.64		Light orangish brown to reddish brown mottled grey and yellow sandy CLAY WITTERING FORMATION	1.5
				N=10 (1,1/3,2,2,3)				Firm to stiff reddish orange mottled light blueish grey slightly silty CLAY WITTERING FORMATION	2.0
								Stiff light grey becoming brownish grey slightly silty CLAY Frequent fine laminations at light grey LONDON CLAY FORMATION	2.5
				N=11 (2,2/2,2,3,4)	4.90	54.94			4.5

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Borehole Log

BH14

Page 2 of 2

Project Name: M27 Junction 8 Project No: 16957

Borehole ID: BH14

Location: M27 Junction 8, Burseldon, Southampton SO31 Co-ords (British National Grid): 447894 - 111037 Level: 59.84

Hole Type: CP Logged By: Dates: -

Client: Interserve Construction Contractor: Project Engineer: Tom Rees-Blanchard

Plant Used: SPT Hammer Serial No:

Well	Water	Samples		Result	Depth (m)	Level (m)	Legend	Stratum Description	Depth m
		Depth (m)	Type						
				N=15 (2,2/3,3,4,5)				Stiff light grey becoming brownish grey slightly silty CLAY Frequent fine laminations at light grey LONDON CLAY FORMATION	5.5
									6.0
									6.5
									7.0
									7.5
				N=19 (1,3/4,5,5,5)					8.0
									8.5
									9.0
									9.5
				N=21 (2,3/5,5,5,6)	10.00	49.84			

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GENERAL REMARKS

No rootlets encountered. Drilled using Dando 2000 with a Rig efficiency of 62%