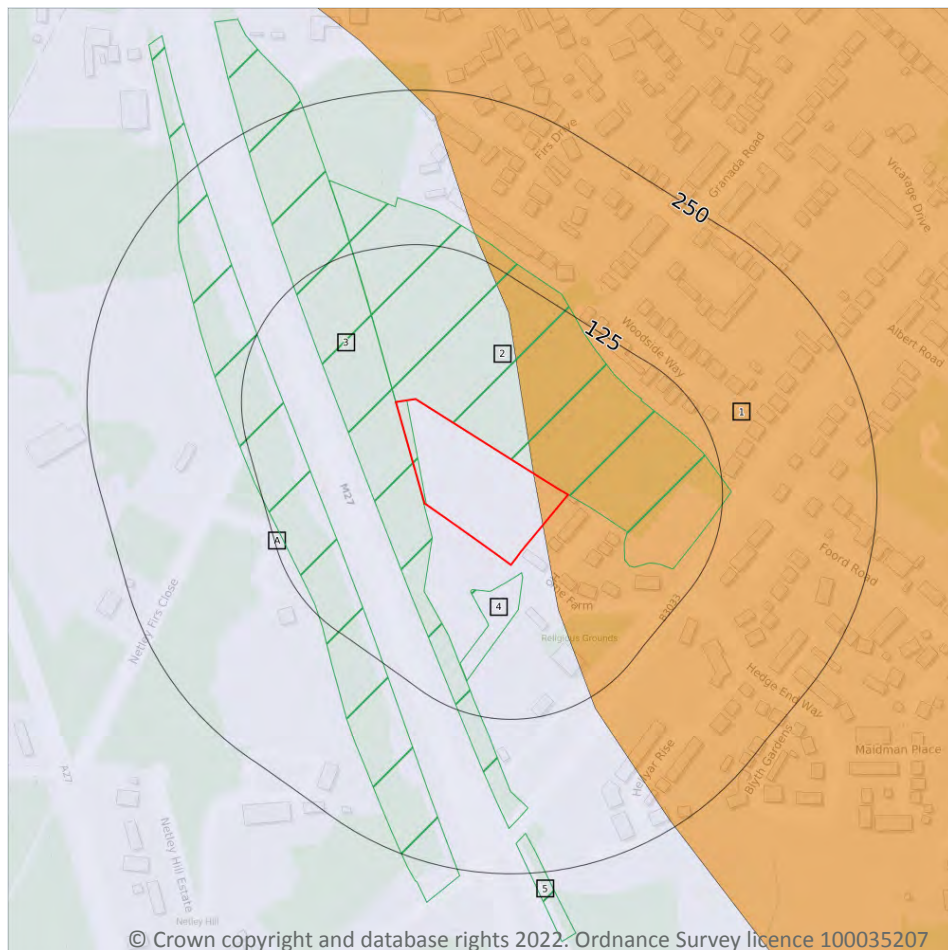


12 Agricultural designations



- 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

2

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 65**

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

ID	Location	Classification	Description
A	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.

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	5
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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 65**

ID	Location	Description	Reference	Application date
2	On site	Selective Fell/Thin (Conditional)	019/93/07-08	01/09/2007
3	0m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
4	10m SE	Selective Fell/Thin (Unconditional)	019/93/07-08	01/09/2007
A	77m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	218m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

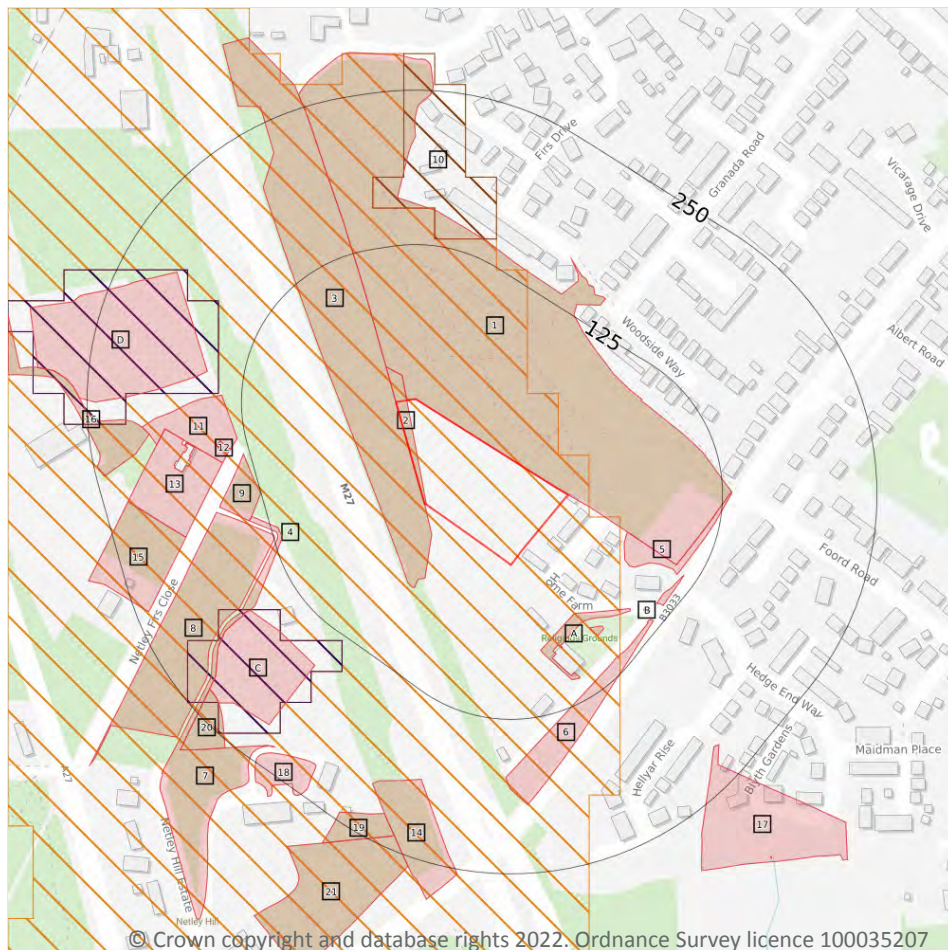
0

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

25

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 68**

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%)
5	57m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
A	64m SE	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
A	82m SE	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
B	106m SE	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
B	111m SE	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
6	114m SE	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
7	118m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	124m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	125m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	132m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	139m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	148m W	No main habitat but additional habitats present	Main habitat: DWOOD (INV > 50%)
D	155m NW	Lowland heathland	Main habitat: LHEAT (INV > 50%)
C	156m SW	Lowland heathland	Main habitat: LHEAT (INV > 50%)
14	188m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	193m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	201m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	221m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	224m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	226m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
20	230m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
21	239m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

4

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 68**



ID	Location	Type	Habitat
4	On site	Network Enhancement Zone 1	Not specified
C	129m SW	Primary Habitat	Lowland heathland
10	131m N	Network Enhancement Zone 2	Not specified
D	144m W	Primary Habitat	Lowland heathland

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



- Site Outline**
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

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.

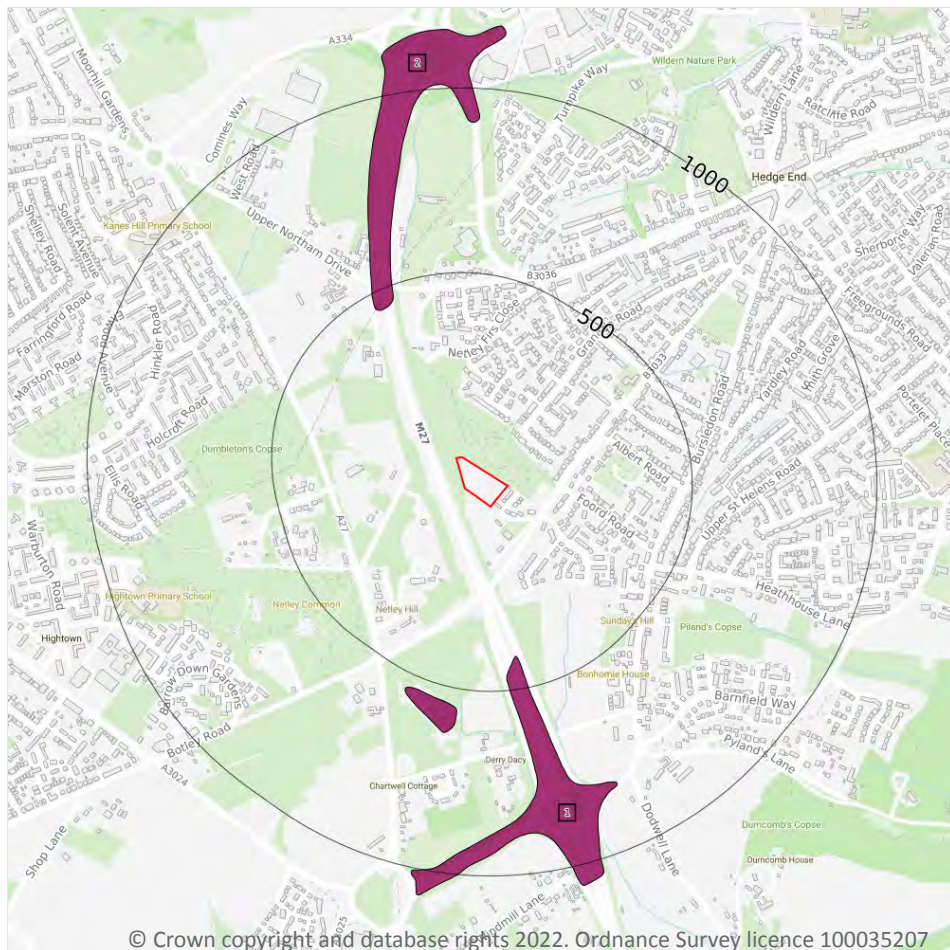
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 71**

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.

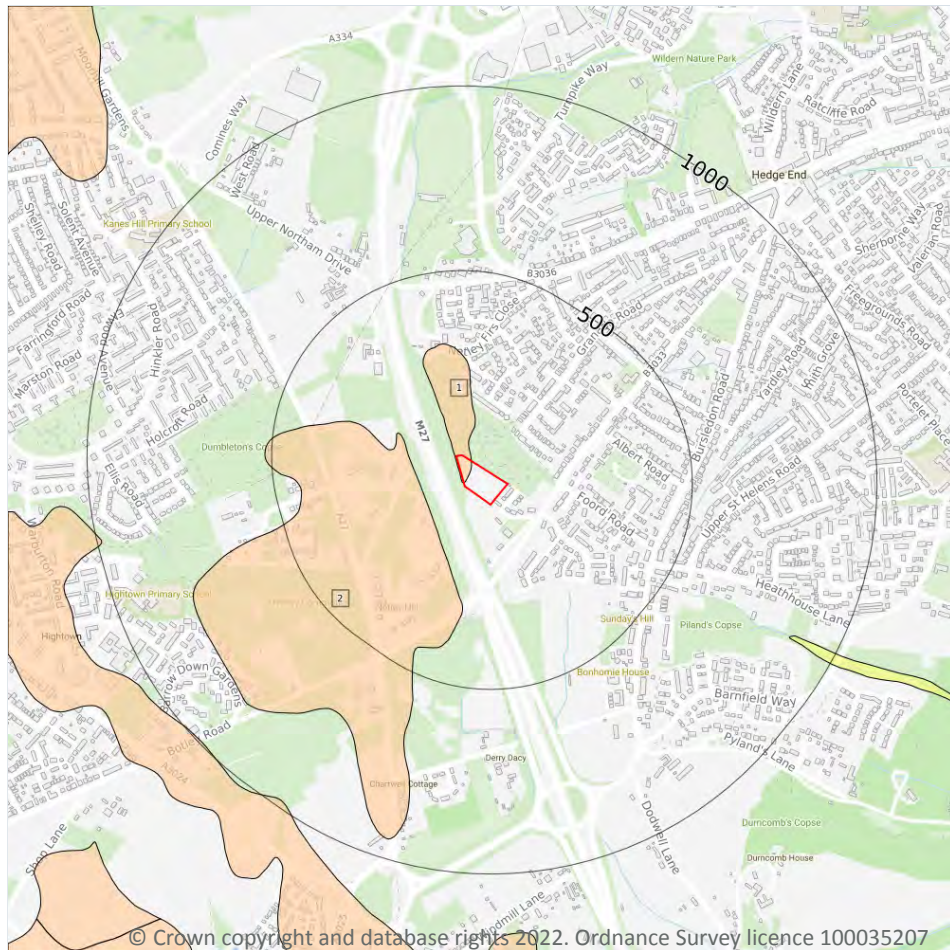
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 72**

ID	Location	LEX Code	Description	Rock description
1	411m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	448m NW	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

2

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 73**

ID	Location	LEX Code	Description	Rock description
1	On site	RTD9-XSV	River Terrace Deposits, 9 - Sand And Gravel	Sand And Gravel
2	111m W	RTD9-XSV	River Terrace Deposits, 9 - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

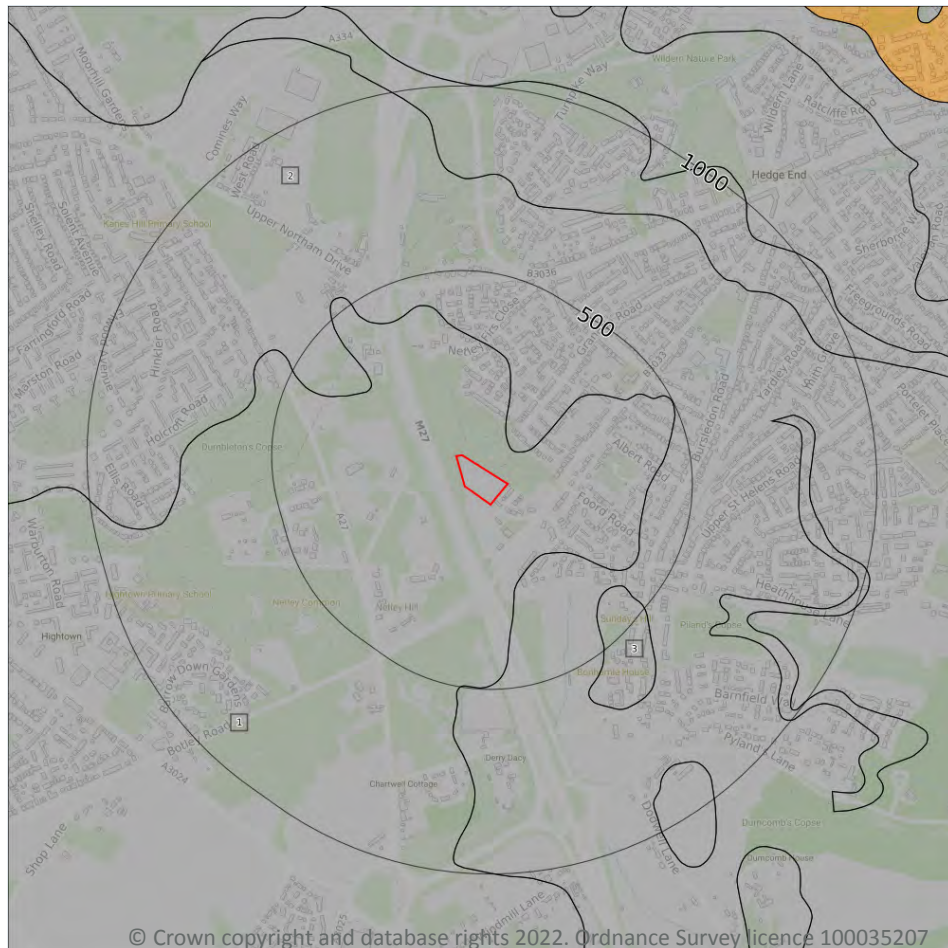
0

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

3

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 75**

ID	Location	LEX Code	Description	Rock age
1	On site	WTT-CLSISA	Wittering Formation - Clay, Silt And Sand	Lutetian Age - Ypresian Age
2	84m NE	LC-CLSISA	London Clay Formation - Clay, Silt And Sand	Eocene Epoch
3	388m SE	WTT-CLSISA	Wittering Formation - Clay, Silt And Sand	Lutetian Age - Ypresian Age

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.

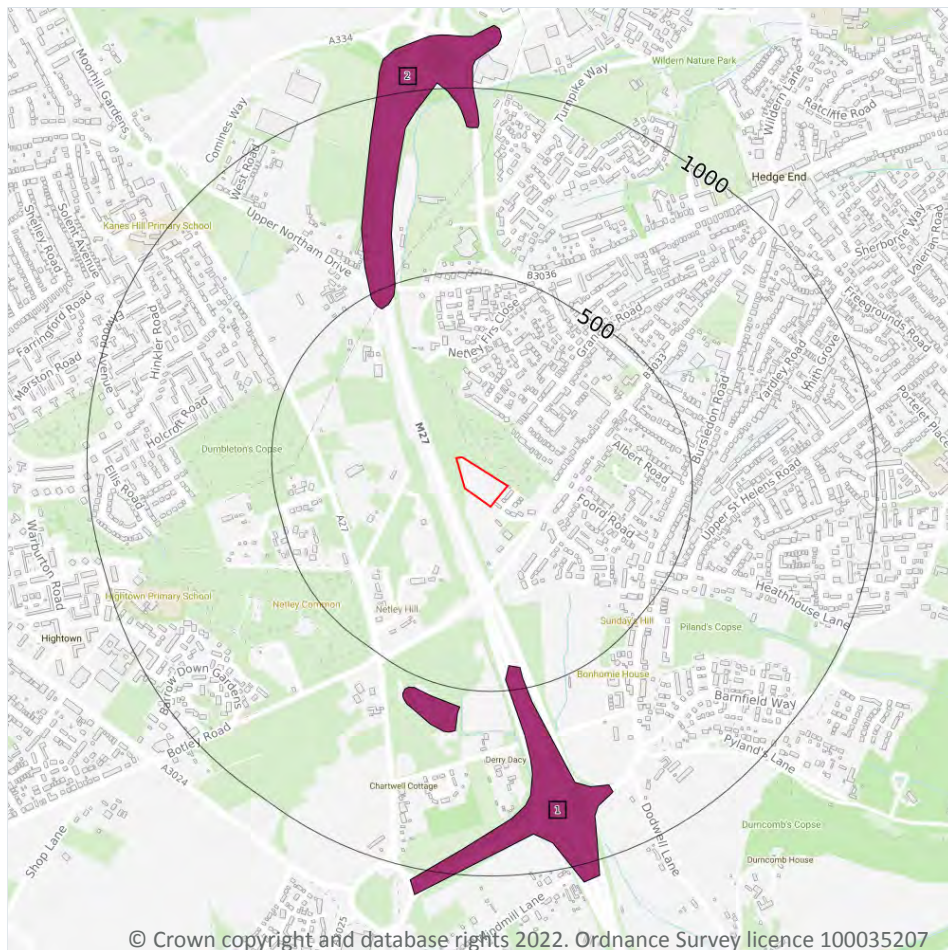
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 77**

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 78**

ID	Location	LEX Code	Description	Rock description
1	433m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	452m NW	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

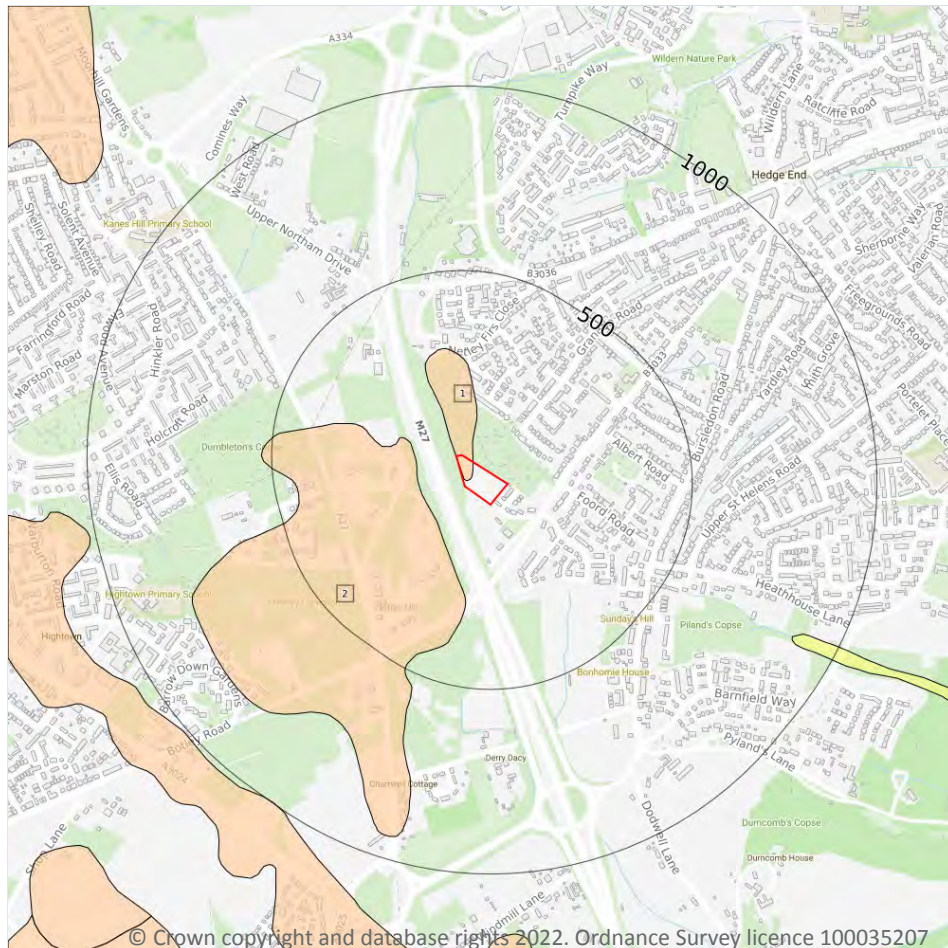
0

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

2

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 80**

ID	Location	LEX Code	Description	Rock description
1	On site	RTD9-XSV	RIVER TERRACE DEPOSITS, 9	SAND AND GRAVEL
2	110m W	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

1

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

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)

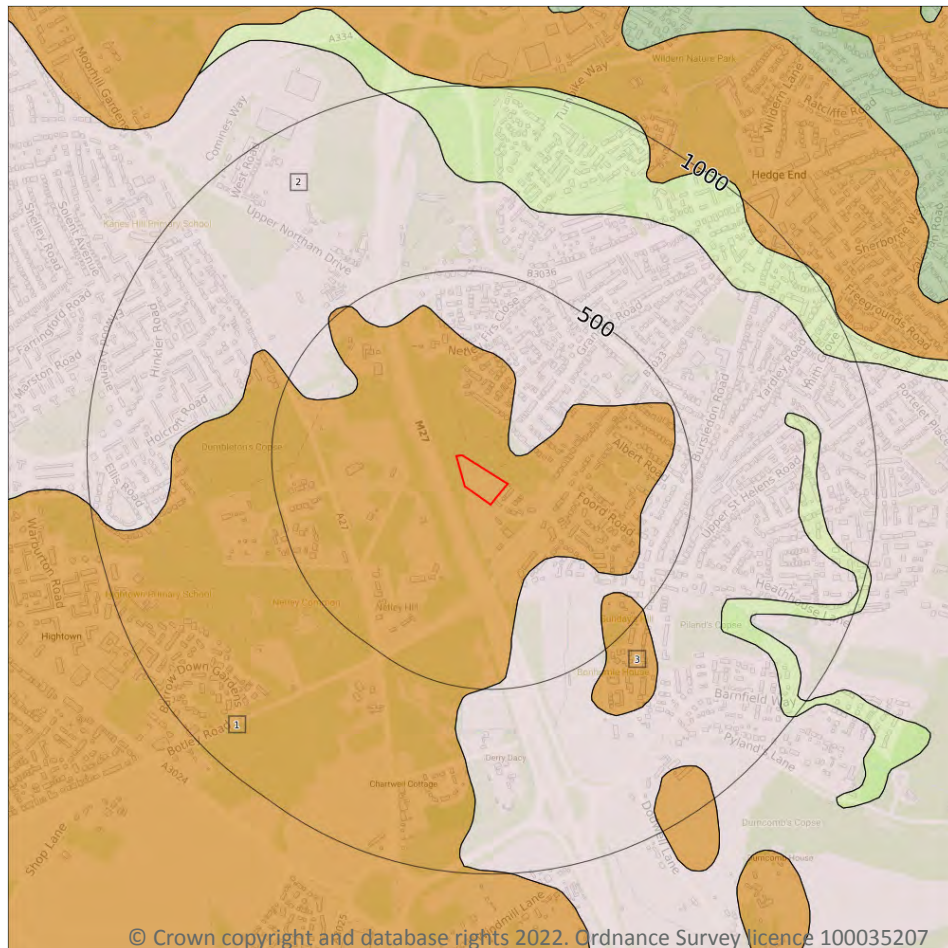
Records within 50m

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

3

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 82**

ID	Location	LEX Code	Description	Rock age
1	On site	WTT-XSZC	WITTERING FORMATION - SAND, SILT AND CLAY	YPRESIAN
2	77m NE	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN
3	396m SE	WTT-XSZC	WITTERING FORMATION - SAND, SILT AND CLAY	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

34

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 84**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	86m NW	448129 112244	Smart Motorways Programme NA_3192_BH12	2.6	N	20783490
A	91m NW	448128 112249	Smart Motorways Programme NA_3192_BH11	2.6	N	20783489
A	96m NW	448126 112254	Smart Motorways Programme NA_3192_BH10	2.6	N	20783488



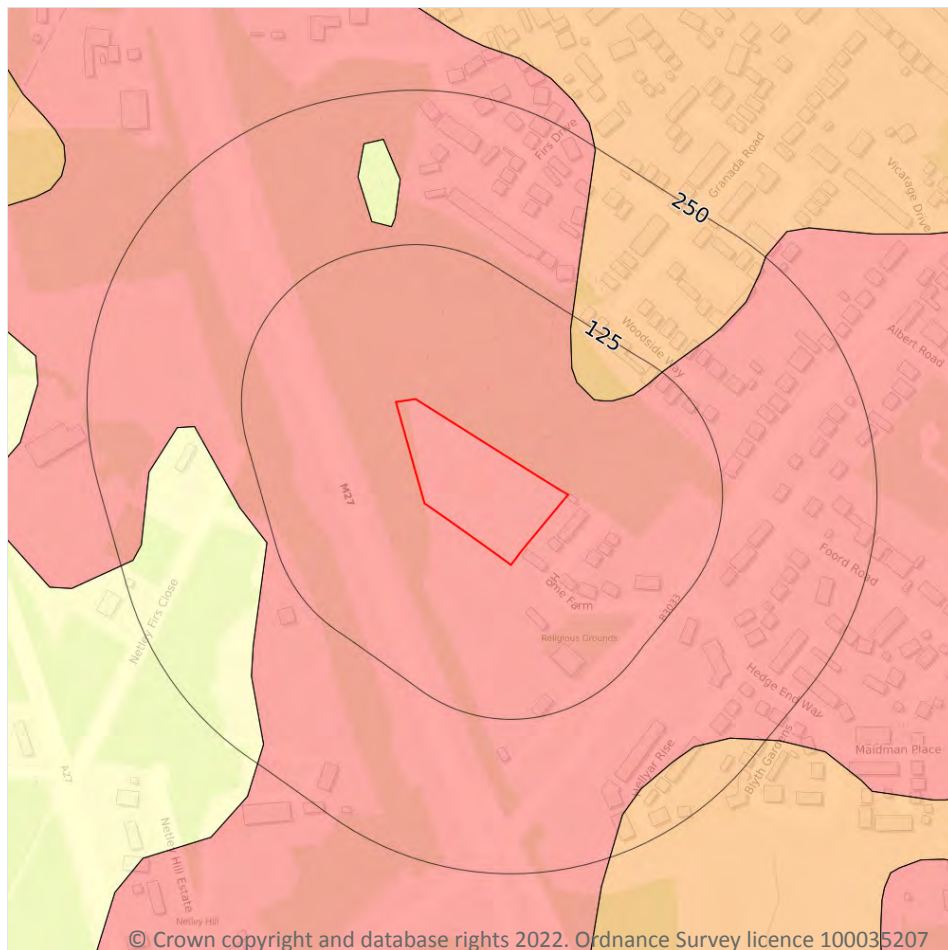
ID	Location	Grid reference	Name	Length	Confidential	Web link
A	100m NW	448125 112258	Smart Motorways Programme NA_3192_BH9	2.6	N	20783498
1	119m NW	448050 112180	M27 MOTORWAY HEDGE END-WINDHOVER BH401	18.15	N	410627
A	120m NW	448119 112277	Smart Motorways Programme NA_3192_BH8	3.0	N	20783497
2	124m W	448070 112060	M27 MOTORWAY HEDGE END-WINDHOVER BH305	17.95	N	410606
3	125m NW	448060 112230	WEST END MIN OF TRANSPORT BH145	14.93	N	410398
4	126m SE	448370 111970	M27 MOTORWAY HEDGE END-WINDHOVER BH404	3.05	N	410631
5	127m W	448050 112120	M27 MOTORWAY HEDGE END-WINDHOVER BH402	18.05	N	410628
A	139m NW	448115 112296	Smart Motorways Programme NA_3192_BH7	2.5	N	20783496
A	140m NW	448113 112296	Smart Motorways Programme NA_3192_BH6	2.5	N	20783495
A	141m NW	448112 112297	Smart Motorways Programme NA_3192_BH5	3.0	N	20783494
6	141m W	448030 112140	M27 MOTORWAY HEDGE END-WINDHOVER BH402S	3.85	N	410629
7	148m NW	448030 112220	WEST END MIN OF TRANSPORT BH146	14.93	N	410399
A	152m NW	448111 112309	Smart Motorways Programme NA_3192_BH4	3.0	N	20783493
A	153m NW	448109 112309	Smart Motorways Programme NA_3192_BH3	2.6	N	20783492
8	153m NE	448330 112260	M27 MOTORWAY HEDGE END-WINDHOVER BH309	14.55	N	410610
A	158m NW	448108 112314	Smart Motorways Programme NA_3192_BH2	2.6	N	20783491
B	159m S	448200 111890	M27 MOTORWAY HEDGE END-WINDHOVER BH308	12.05	N	410609
9	159m NW	448080 112300	M27 MOTORWAY HEDGE END-WINDHOVER BH304	18.2	N	410605
10	160m N	448170 112330	M27 MOTORWAY HEDGE END-WINDHOVER BH310	20.05	N	410611
11	170m NW	448050 112290	M27 MOTORWAY HEDGE END-WINDHOVER BH303	18.0	N	410604
B	174m S	448210 111870	M27 MOTORWAY HEDGE END-WINDHOVER TP431	4.2	N	410633
A	179m NW	448101 112334	Smart Motorways Programme NA_3192_BH1	3.0	N	20783487



ID	Location	Grid reference	Name	Length	Confidential	Web link
12	186m S	448160 111880	M27 MOTORWAY HEDGE END-WINDHOVER BH403	11.95	N	410630
13	202m NW	448080 112350	WEST END MIN OF TRANSPORT BH138	18.28	N	410394
14	213m S	448210 111830	M27 MOTORWAY HEDGE END-WINDHOVER BH405	12.05	N	410632
15	217m S	448170 111840	M27 MOTORWAY HEDGE END-WINDHOVER TP338	3.6	N	410622
C	230m NW	448080 112380	WEST END MIN OF TRANSPORT BH139	16.76	N	410395
16	237m S	448250 111800	WEST END MIN OF TRANSPORT BH155	12.19	N	410400
C	238m NW	448060 112380	WEST END MIN OF TRANSPORT BH140	16.76	N	410396
17	243m SW	448090 111860	M27 MOTORWAY HEDGE END-WINDHOVER BH307	8.05	N	410608
C	248m NW	448040 112380	M27 MOTORWAY HEDGE END-WINDHOVER BH302	10.0	N	410603

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).

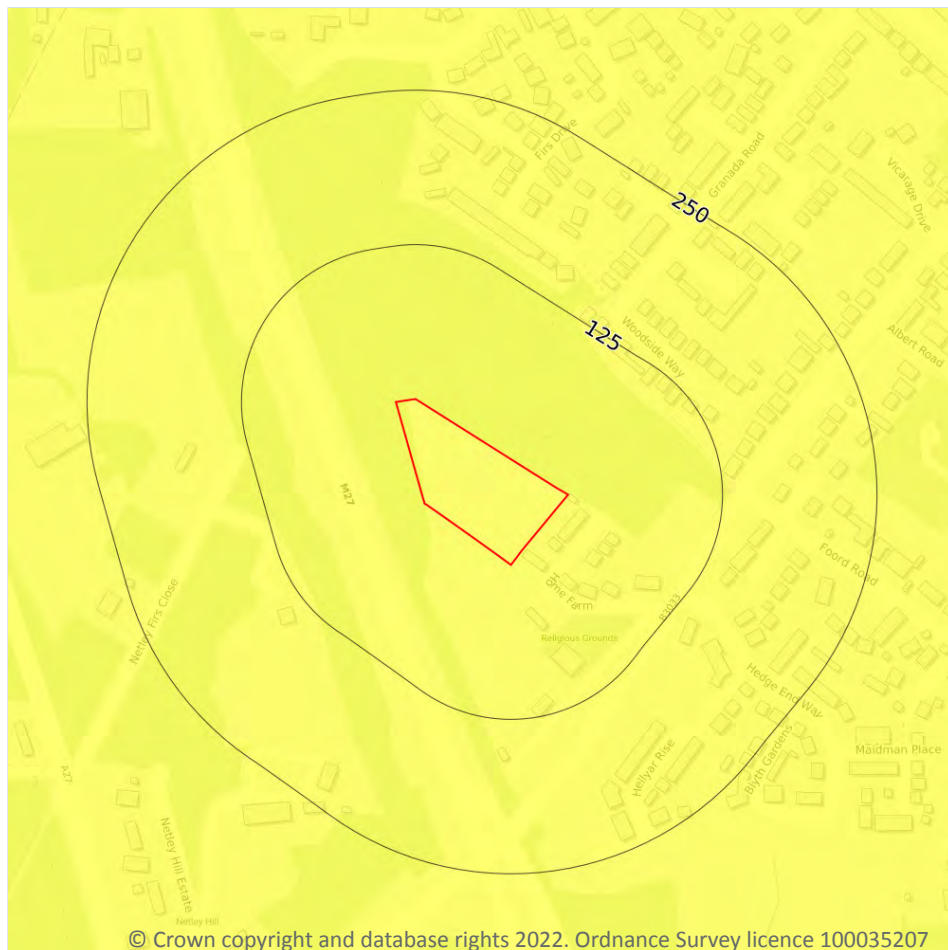
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 87**

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.

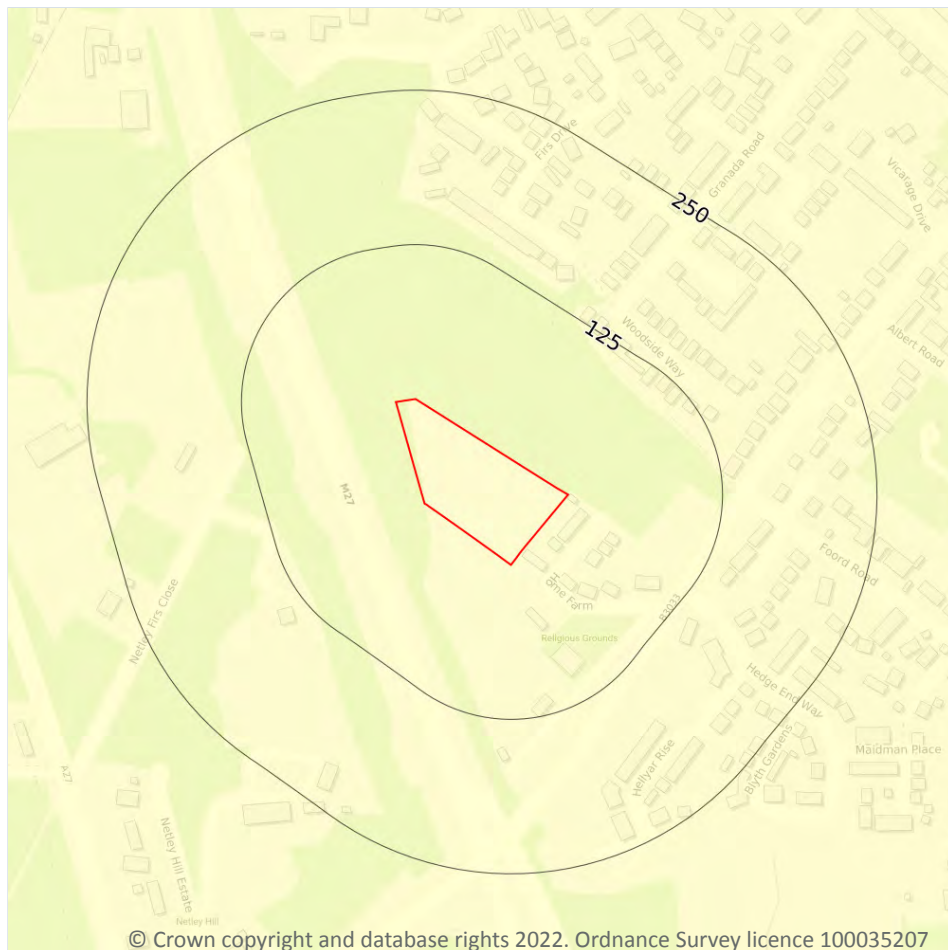
Features are displayed on the Natural ground subsidence - Running sands map on **page 88**

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.

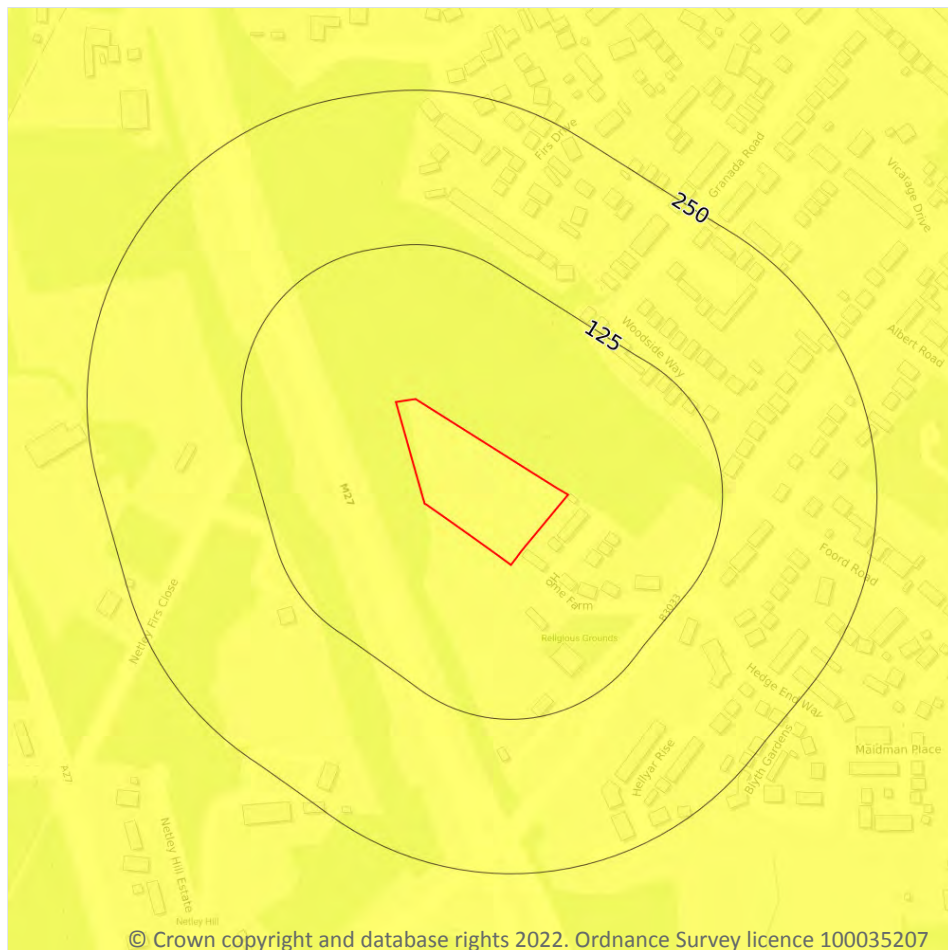
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 89**

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



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

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.

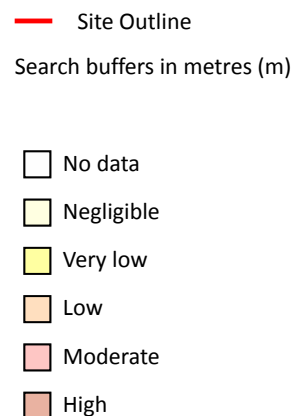
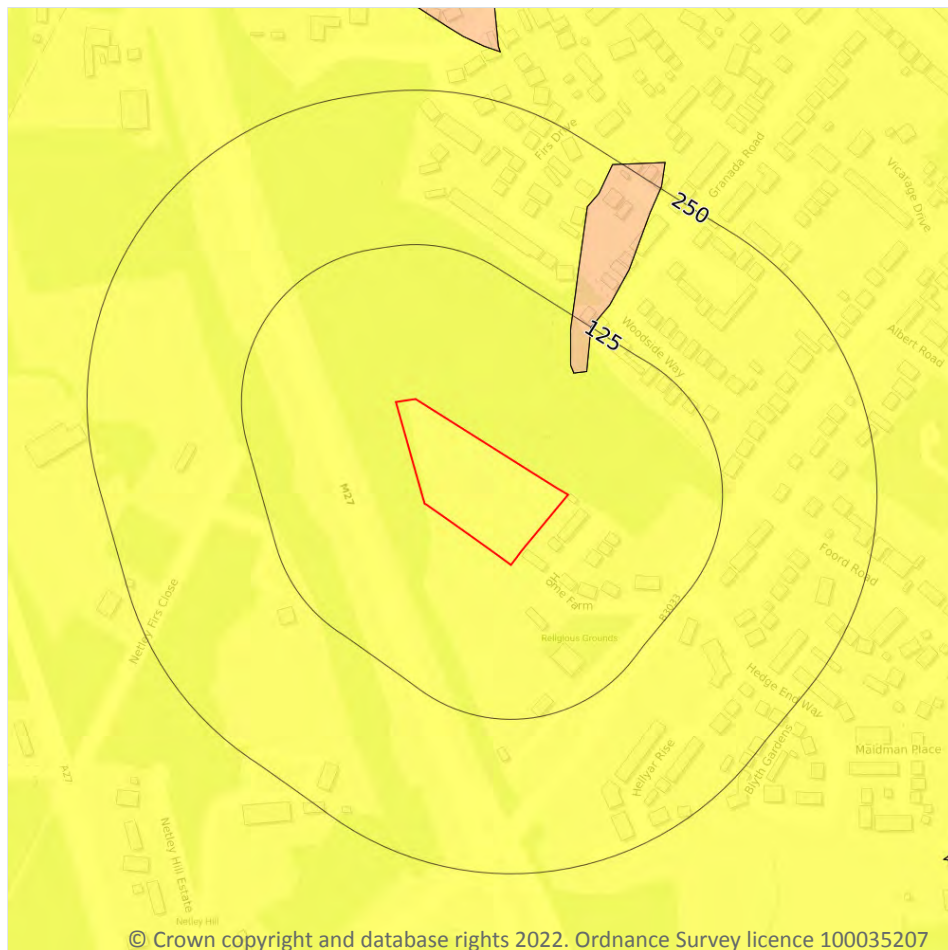
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 90**

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.

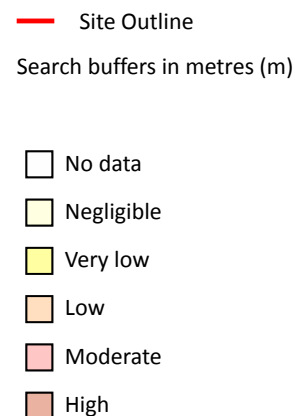
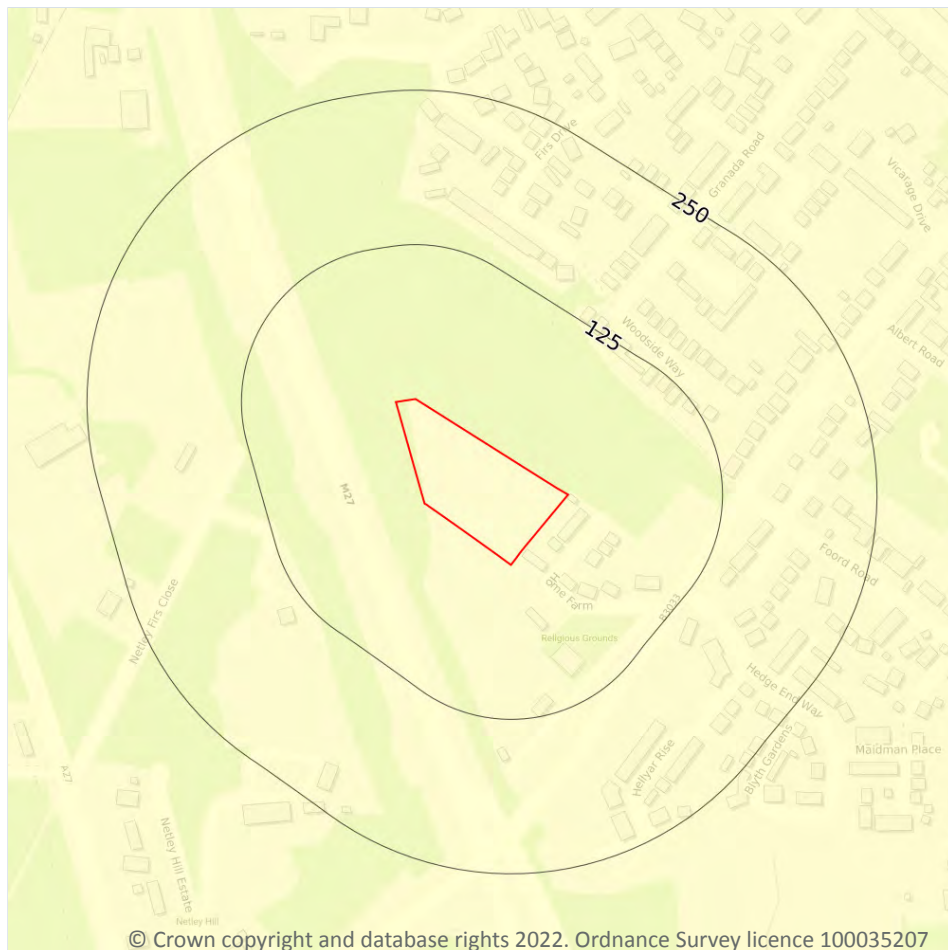
Features are displayed on the Natural ground subsidence - Landslides map on **page 91**

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.

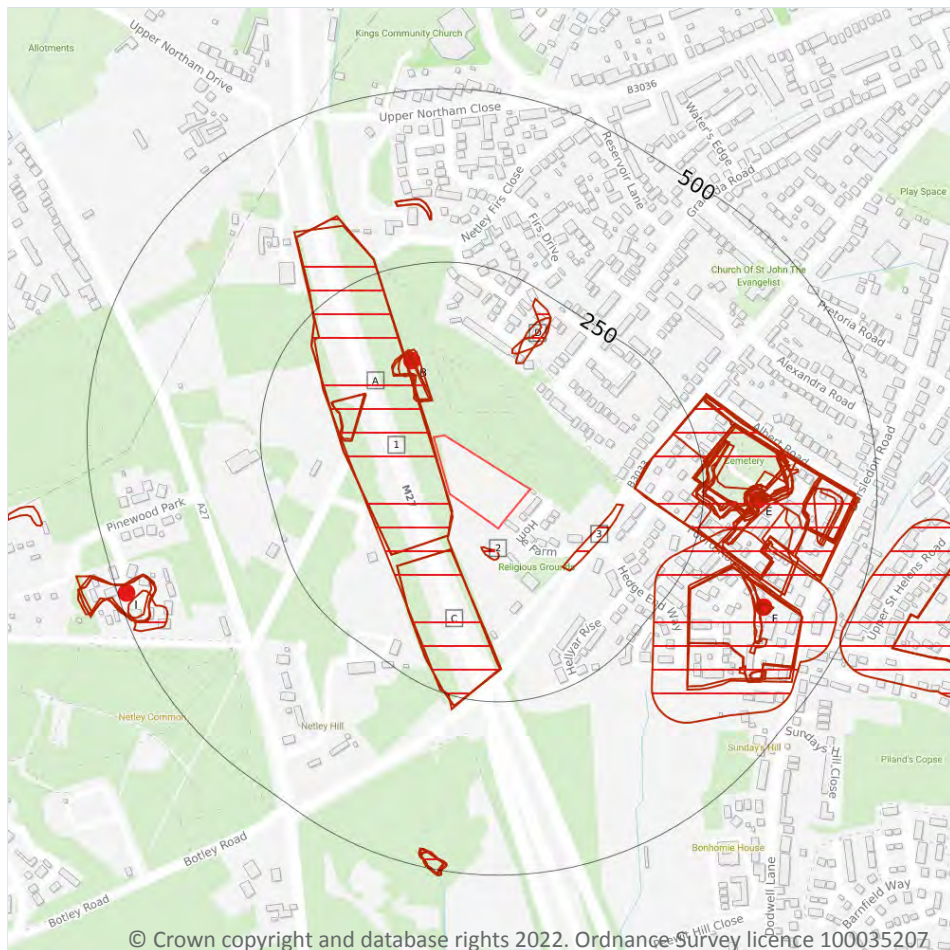
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 92**

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, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- 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 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.

18.2 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, ground workings and natural cavities map on **page 93**

ID	Location	Details	Description
B	114m NW	Name: Netley Firs Gravel Pit Address: Hedge End, 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	328m E	Name: Hedge End Brick Field Address: Hedge End, SOUTHAMPTON, Hampshire Commodity: Clay & Shale 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	377m SE	Name: Hedge End Brick Field Address: Hedge End, SOUTHAMPTON, Hampshire Commodity: Clay & Shale 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
I	487m W	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

This data is sourced from the British Geological Survey.



18.3 Surface ground workings

Records within 250m

31

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, ground workings and natural cavities map on **page 93**

ID	Location	Land Use	Year of mapping	Mapping scale
1	4m NW	Cuttings	1977	1:10000
A	4m W	Cuttings	1993	1:10000
A	4m W	Cuttings	1987	1:10000
2	31m S	Pond	1908	1:10560
B	53m NW	Old Gravel Pit	1898	1:10560
B	54m NW	Unspecified Pit	1868	1:10560
B	55m NW	Old Gravel Pit	1895	1:10560
C	65m SW	Cuttings	1993	1:10000
C	65m SW	Cuttings	1987	1:10000
3	108m SE	Cuttings	1868	1:10560
A	111m NW	Pond	1908	1:10560
A	113m NW	Pond	1942	1:10560
D	143m N	Unspecified Disused Workings	1957	1:10560
E	150m E	Brick Field	1898	1:10560
E	151m E	Brick Works	1908	1:10560
E	151m E	Brick Works	1908	1:10560
D	152m N	Unspecified Ground Workings	1967	1:10560
F	219m SE	Brick Works	1942	1:10560
E	221m E	Brick Works	1942	1:10560
E	226m E	Brick Works	1908	1:10560
E	235m E	Cemetery	1993	1:10000
E	235m E	Cemetery	1967	1:10560
E	235m E	Cemetery	1957	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
E	235m E	Cemetery	1987	1:10000
E	235m E	Cemetery	1977	1:10000
E	237m E	Cemetery	1957	1:10560
E	237m E	Cemetery	1957	1:10560
E	240m E	Unspecified Ground Workings	1908	1:10560
E	240m E	Unspecified Ground Workings	1908	1:10560
E	240m E	Unspecified Ground Workings	1908	1:10560
E	240m E	Unspecified Ground Workings	1942	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 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.

18.5 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 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.

18.8 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.

18.9 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.

18.10 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.

18.11 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.13 Clay mining

Records on site

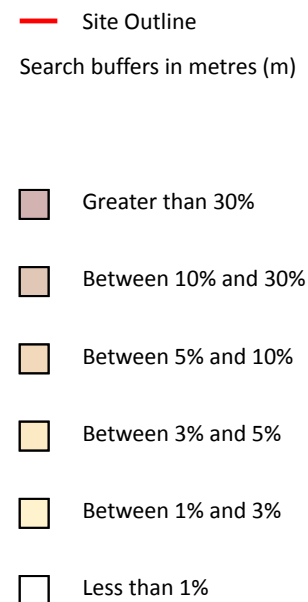
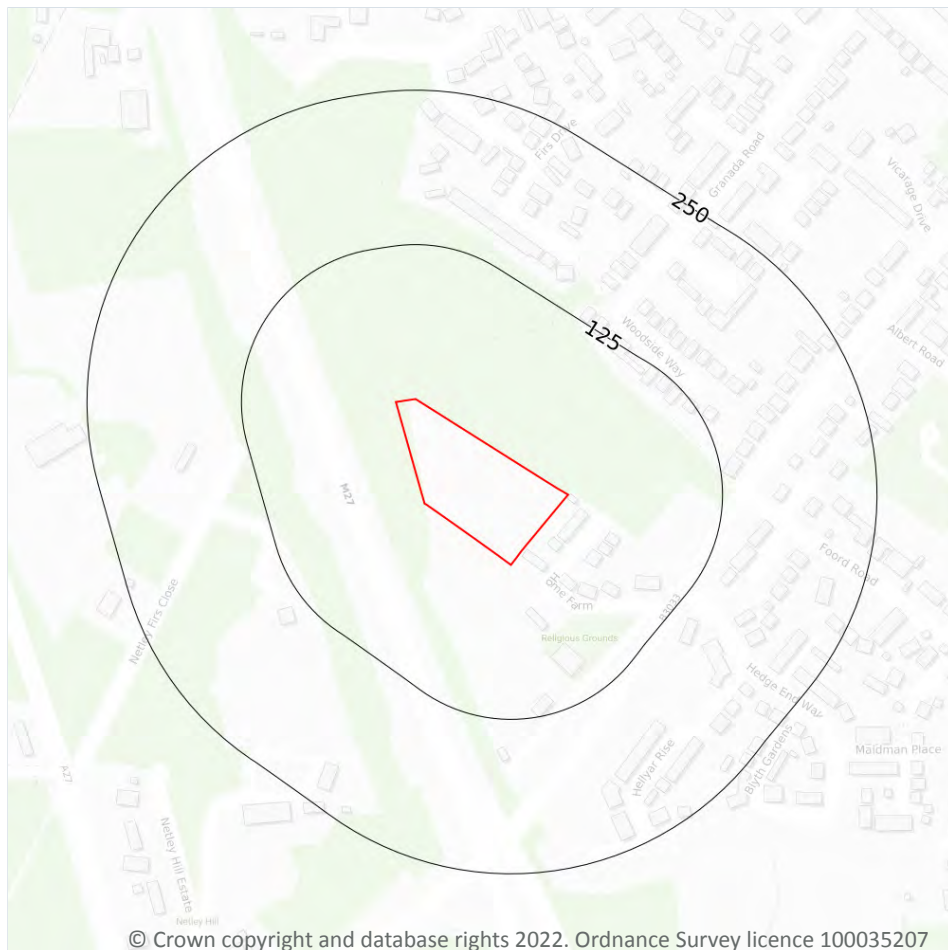
0

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 Radon



19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 99**

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

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

4

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
36m 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 S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 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.

20.3 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.



21 Railway infrastructure and projects

21.1 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.

21.2 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.

21.3 Railway tunnels

Records within 250m	0
---------------------	---

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 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.

21.5 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.

21.6 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.

21.7 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.

21.8 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.

21.9 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.

21.10 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.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: County Series

Map date: 1869

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1869
Revised 1869
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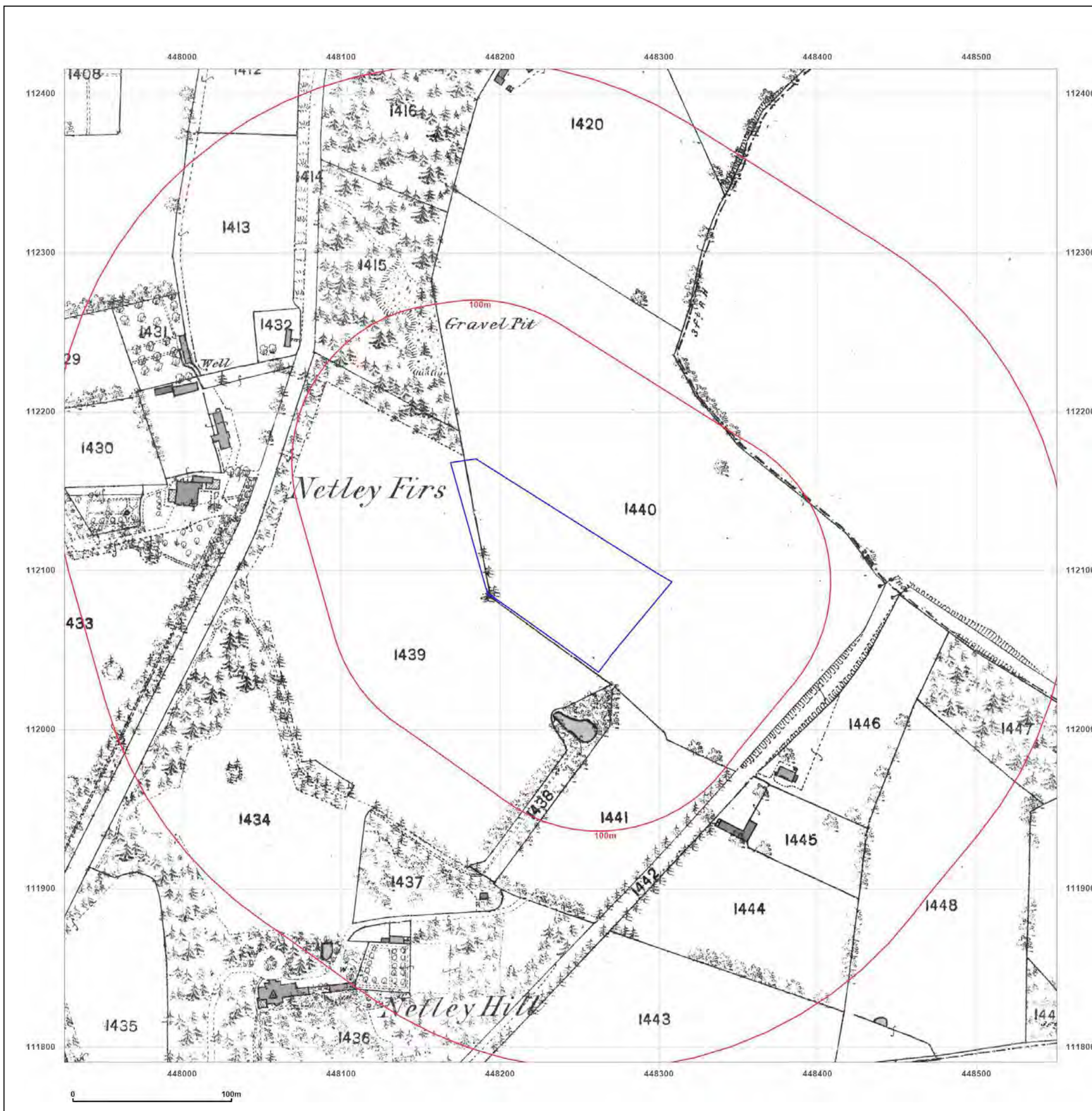


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Grid Ref: 448238, 112103

Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



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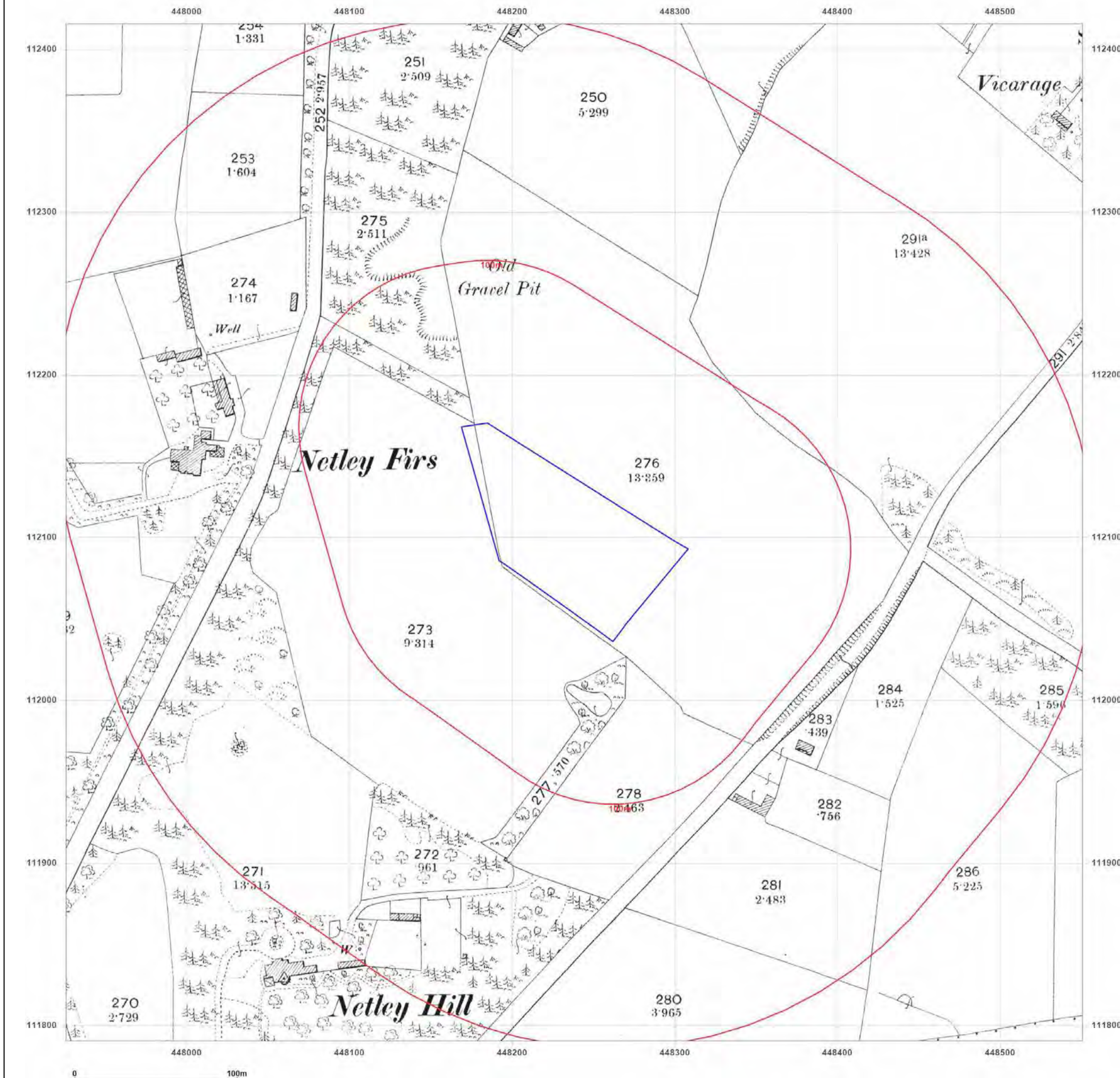


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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



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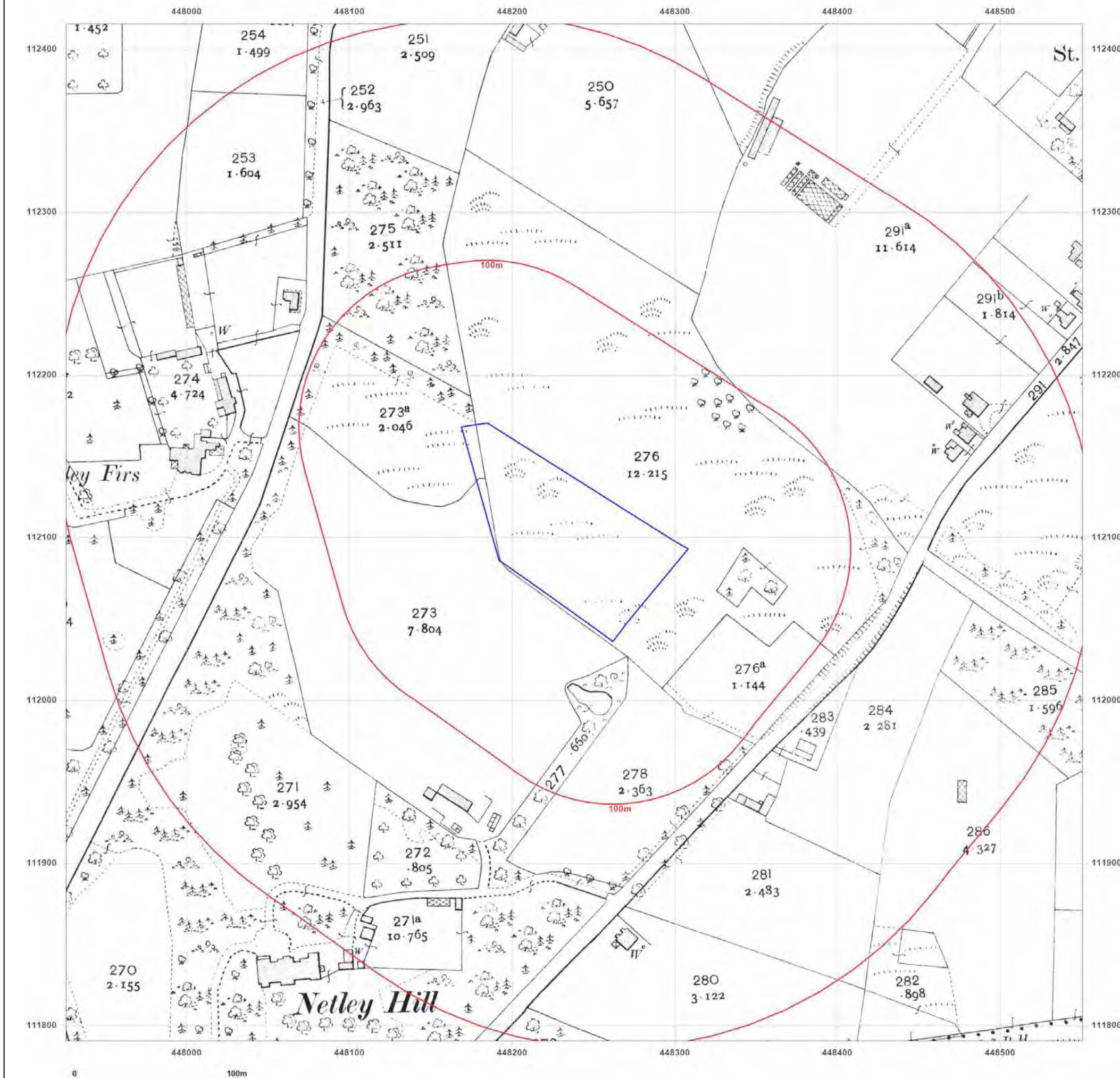


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Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 1965

Scale: 1:2,500

Printed at: 1:2,500



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Client Ref: J22-077_-Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 1970-1971

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
Copyright 1971
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Revised 1969
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Copyright 1970
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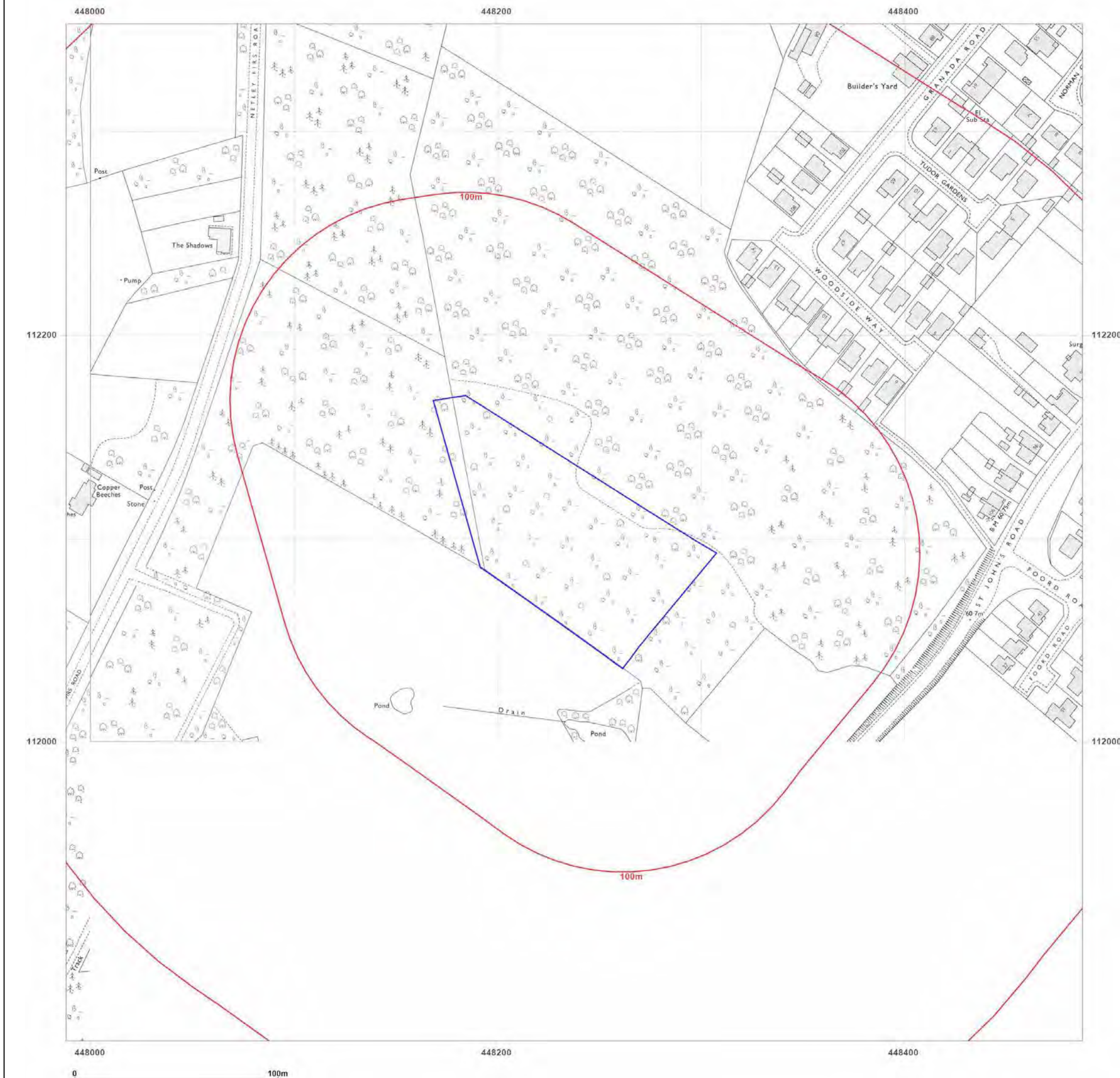


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Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 1978

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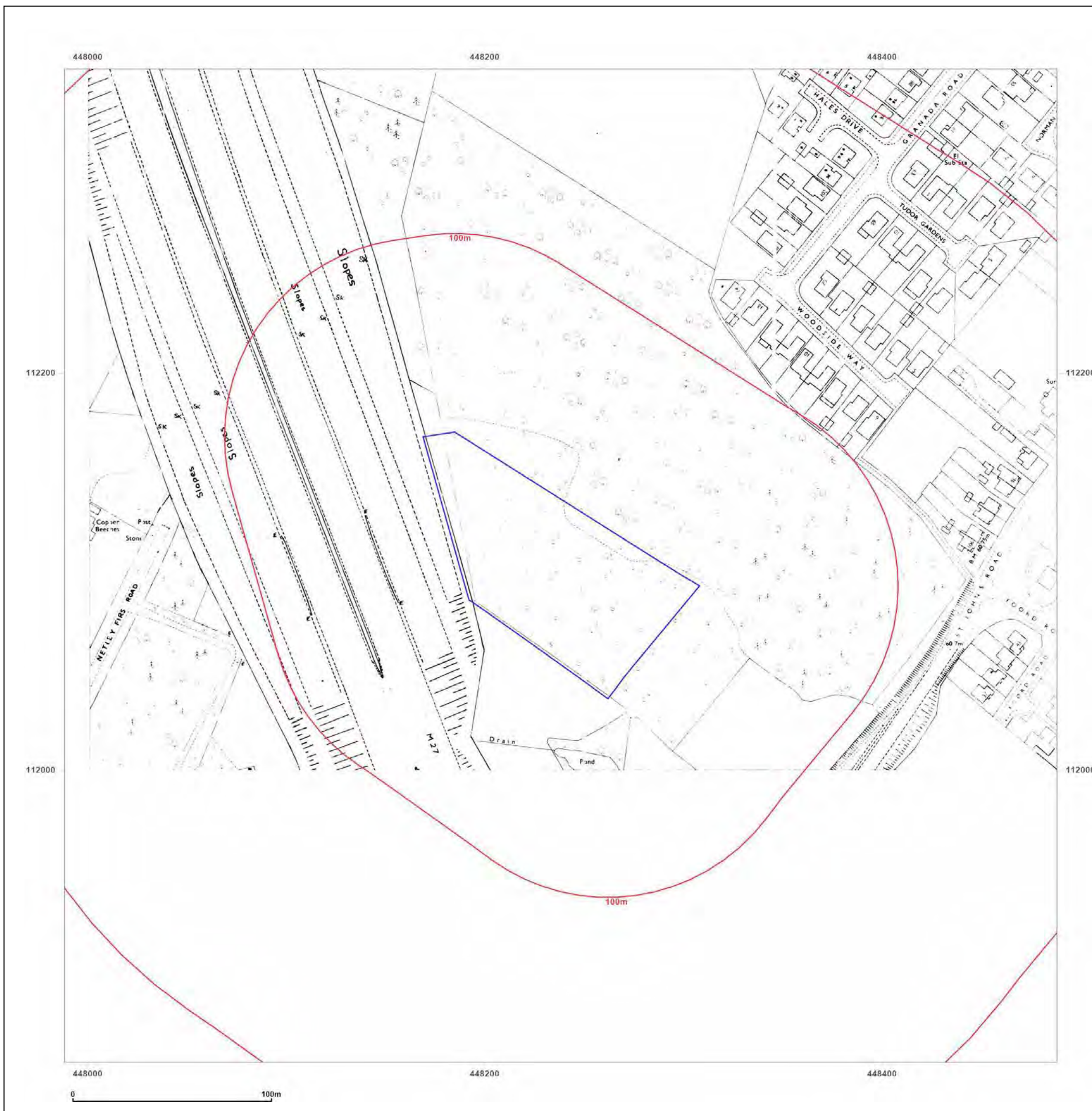


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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 1980

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1970
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Edition N/A
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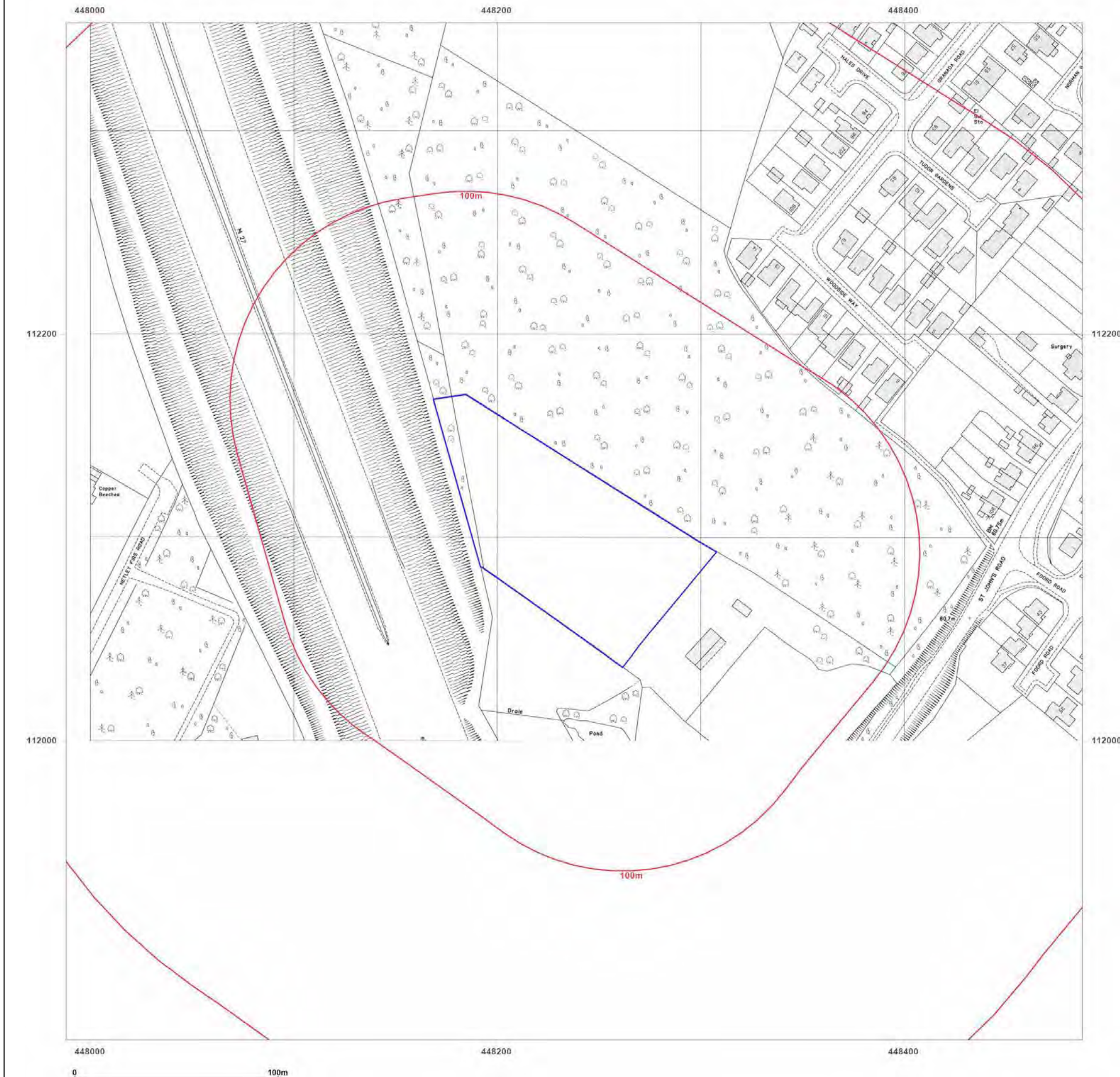


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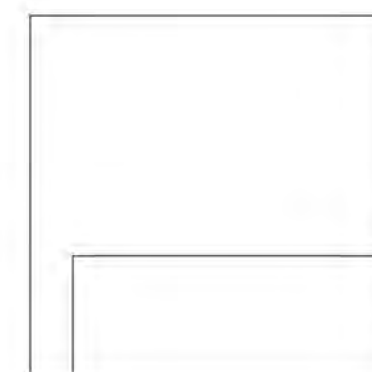
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Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 1984

Scale: 1:2,500

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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 1989-1993

Scale: 1:1,250

Printed at: 1:2,000



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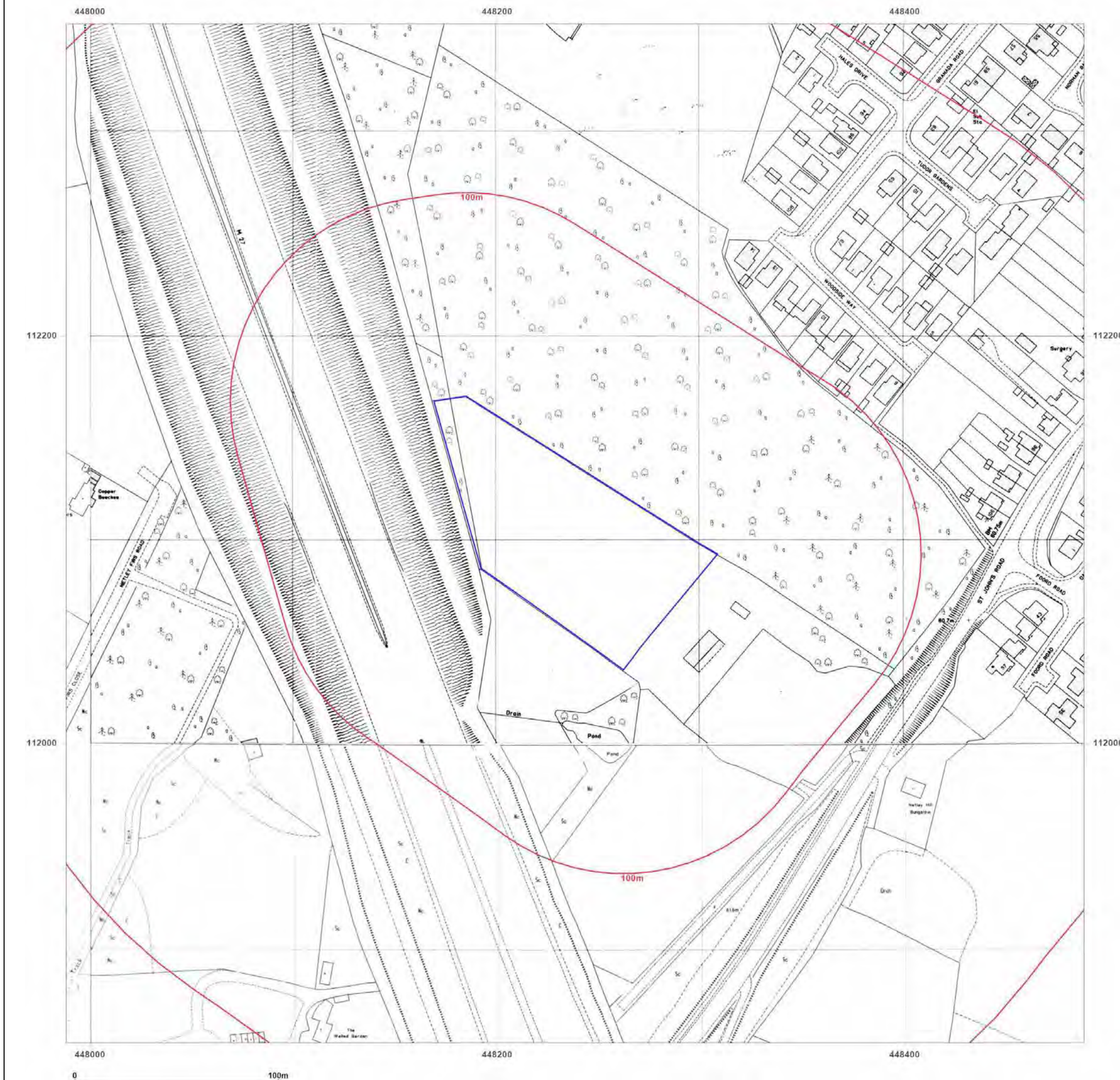


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Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 1993-1995

Scale: 1:1,250

Printed at: 1:2,000



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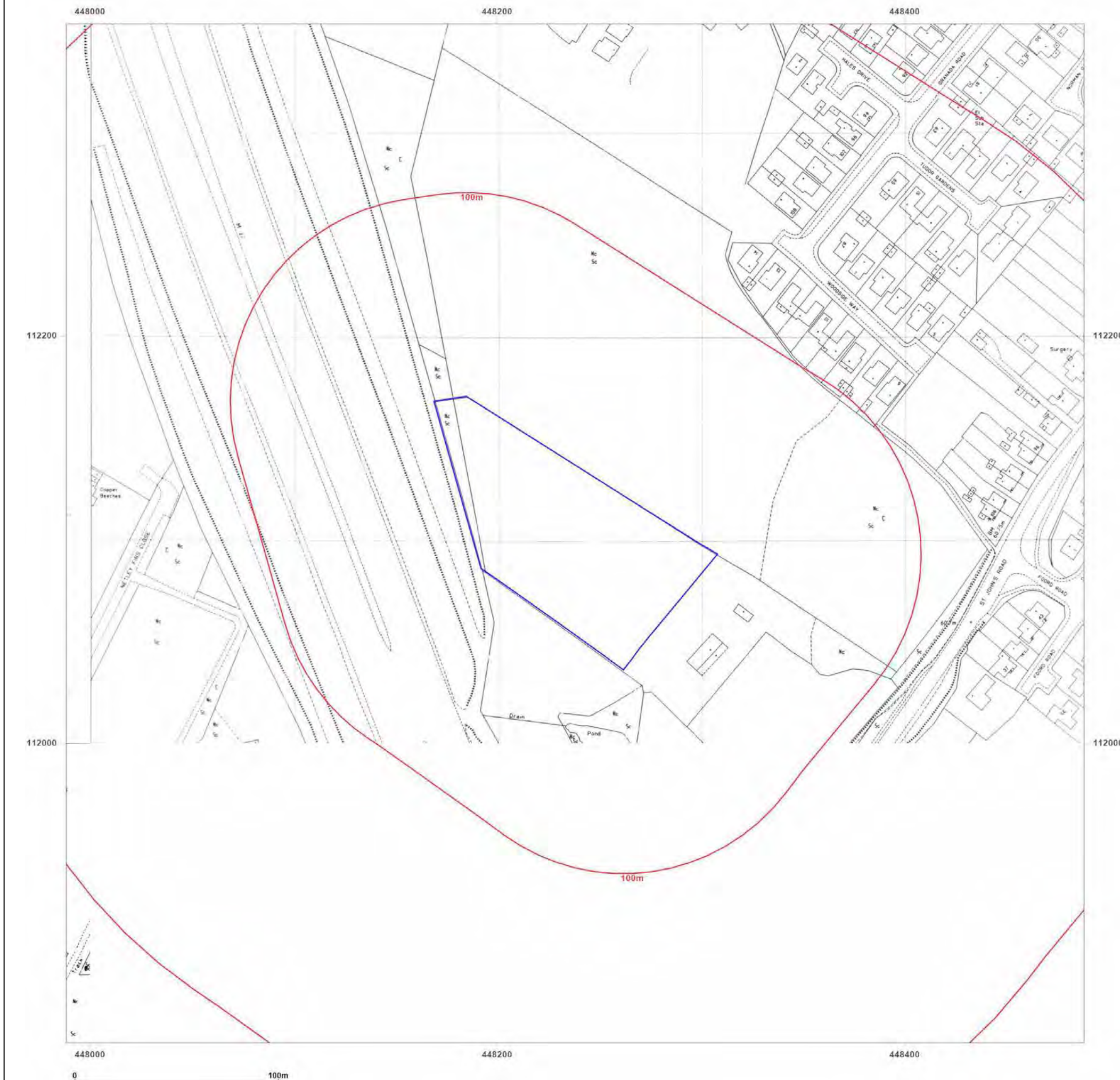


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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

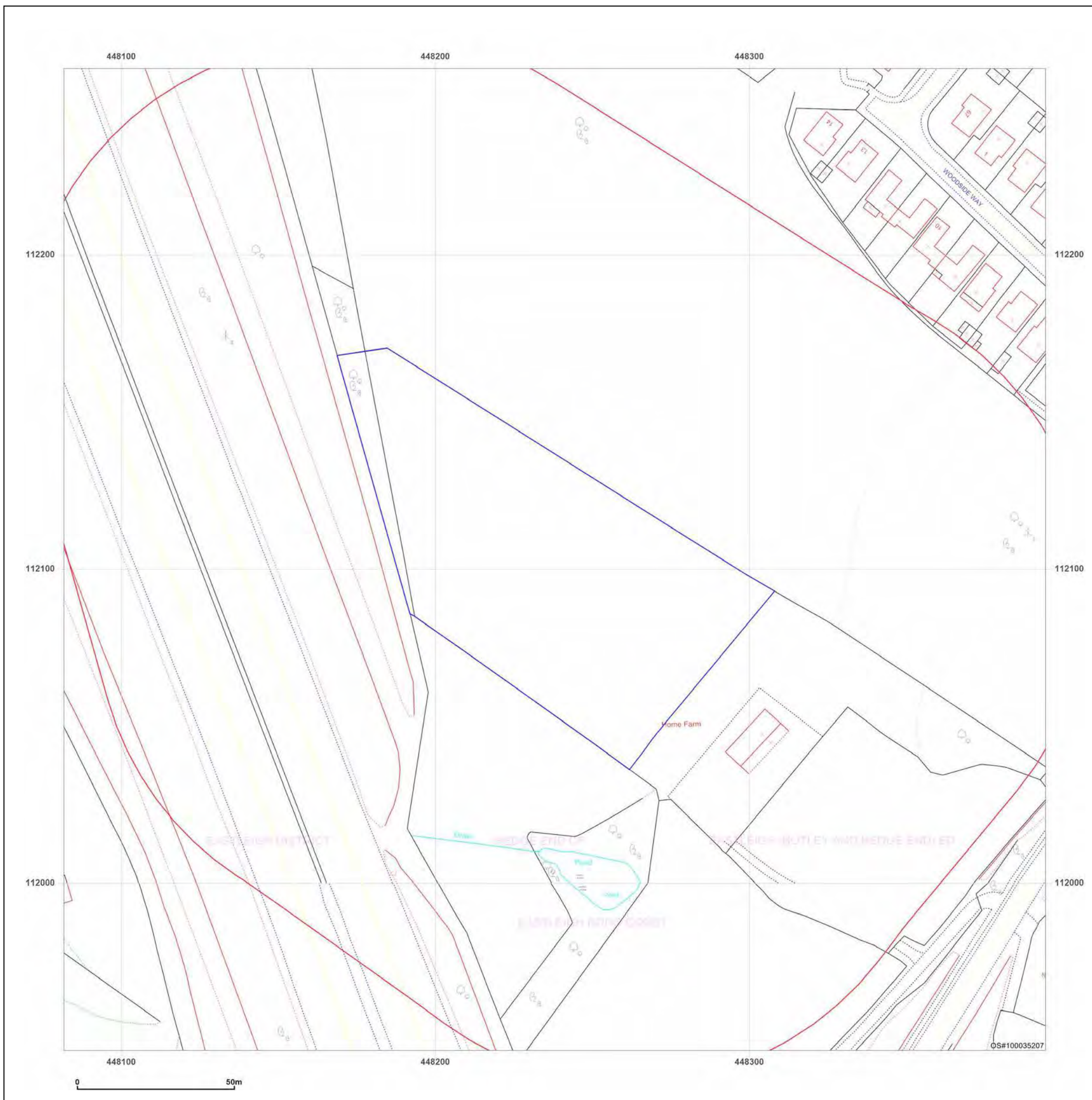


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Site Details:

HOME FARM, ST JOHNS ROAD,
HEDGE END, SO30 4DF

Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: County Series

Map date: 1868

Scale: 1:10,560

Printed at: 1:10,560



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

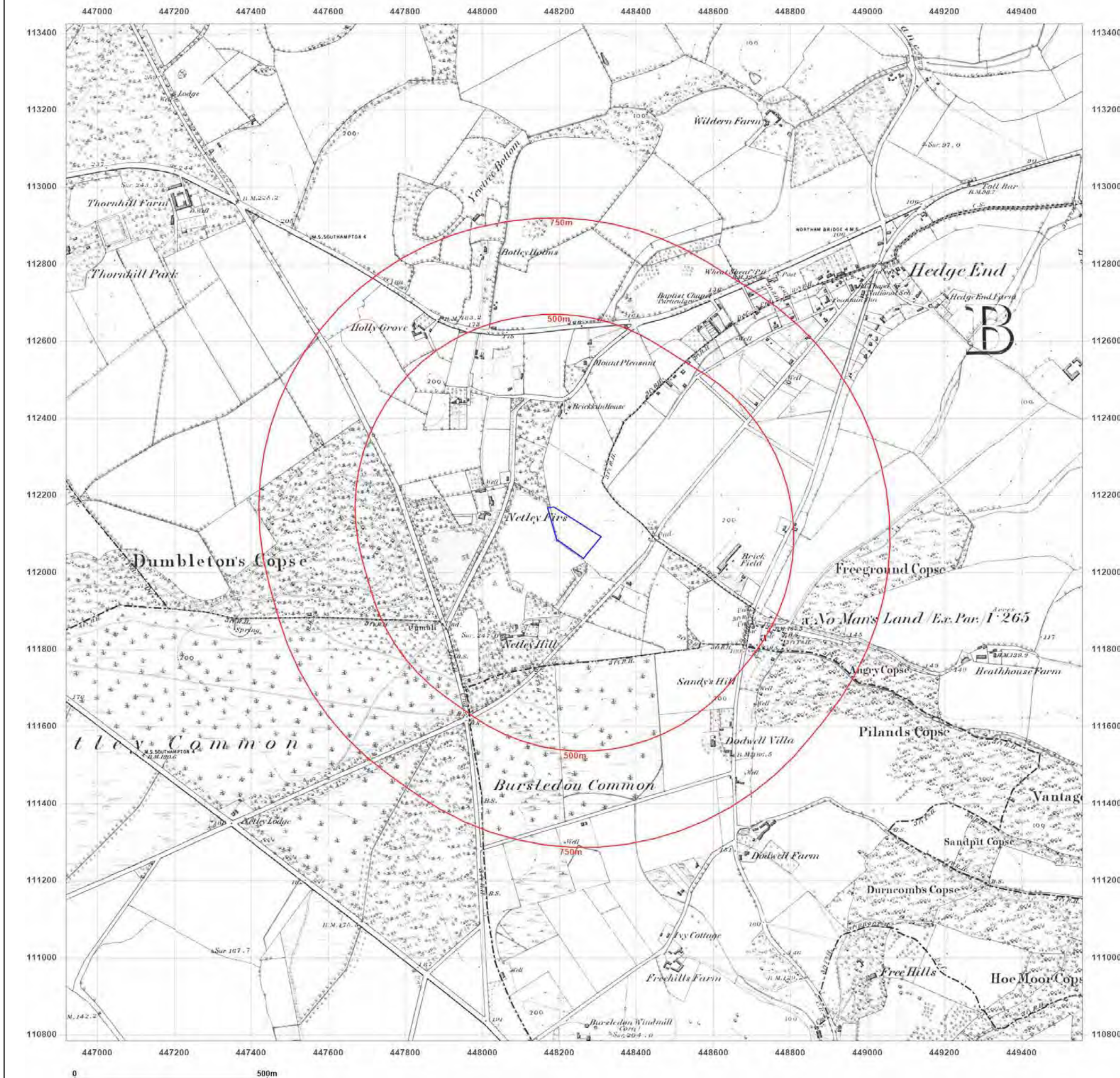


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Site Details:

HOME FARM, ST JOHNS ROAD,
HEDGE END, SO30 4DF

Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: County Series

Map date: 1895-1897

Scale: 1:10,560

Printed at: 1:10,560



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

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

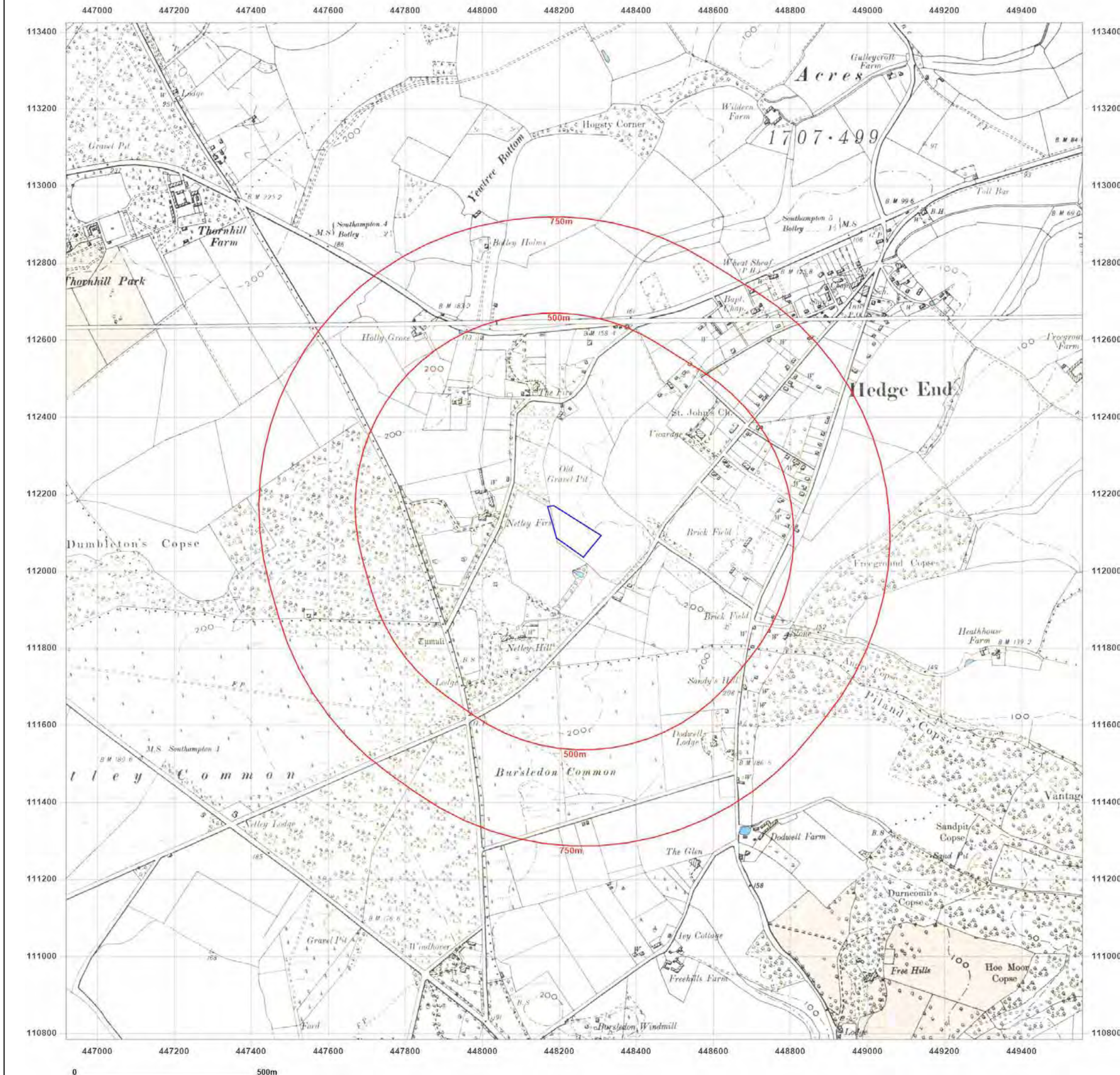


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Site Details:

HOME FARM, ST JOHNS ROAD,
HEDGE END, SO30 4DF

Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: County Series

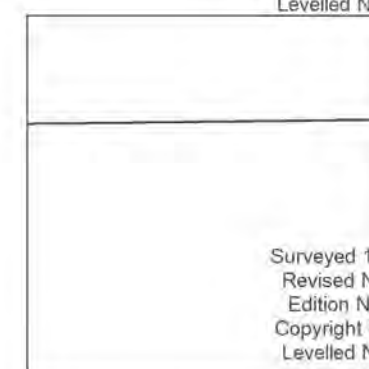
Map date: 1895-1898

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1868
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A



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

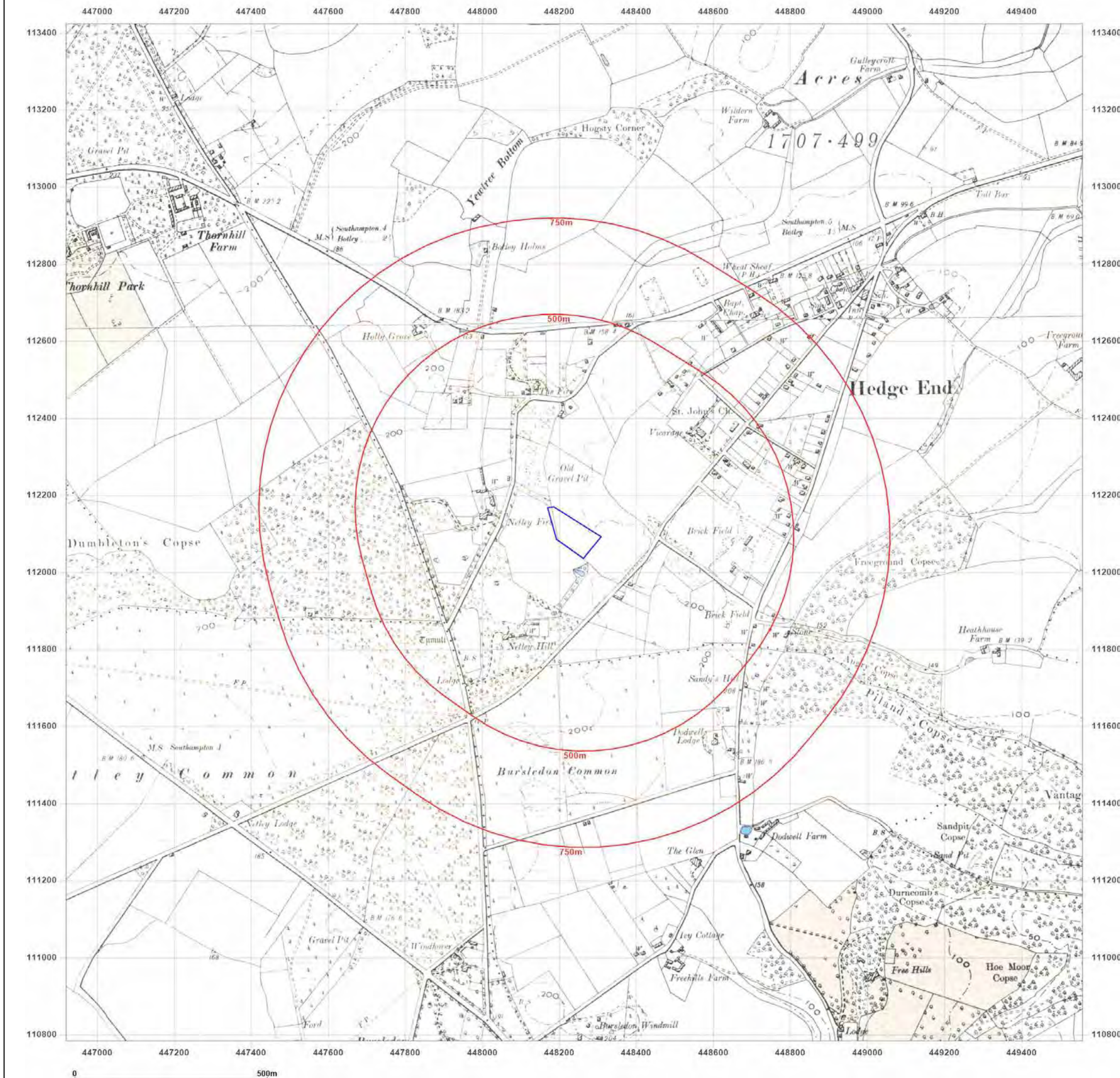


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Site Details:

HOME FARM, ST JOHNS ROAD,
HEDGE END, SO30 4DF

Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: County Series

Map date: 1908

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1856
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

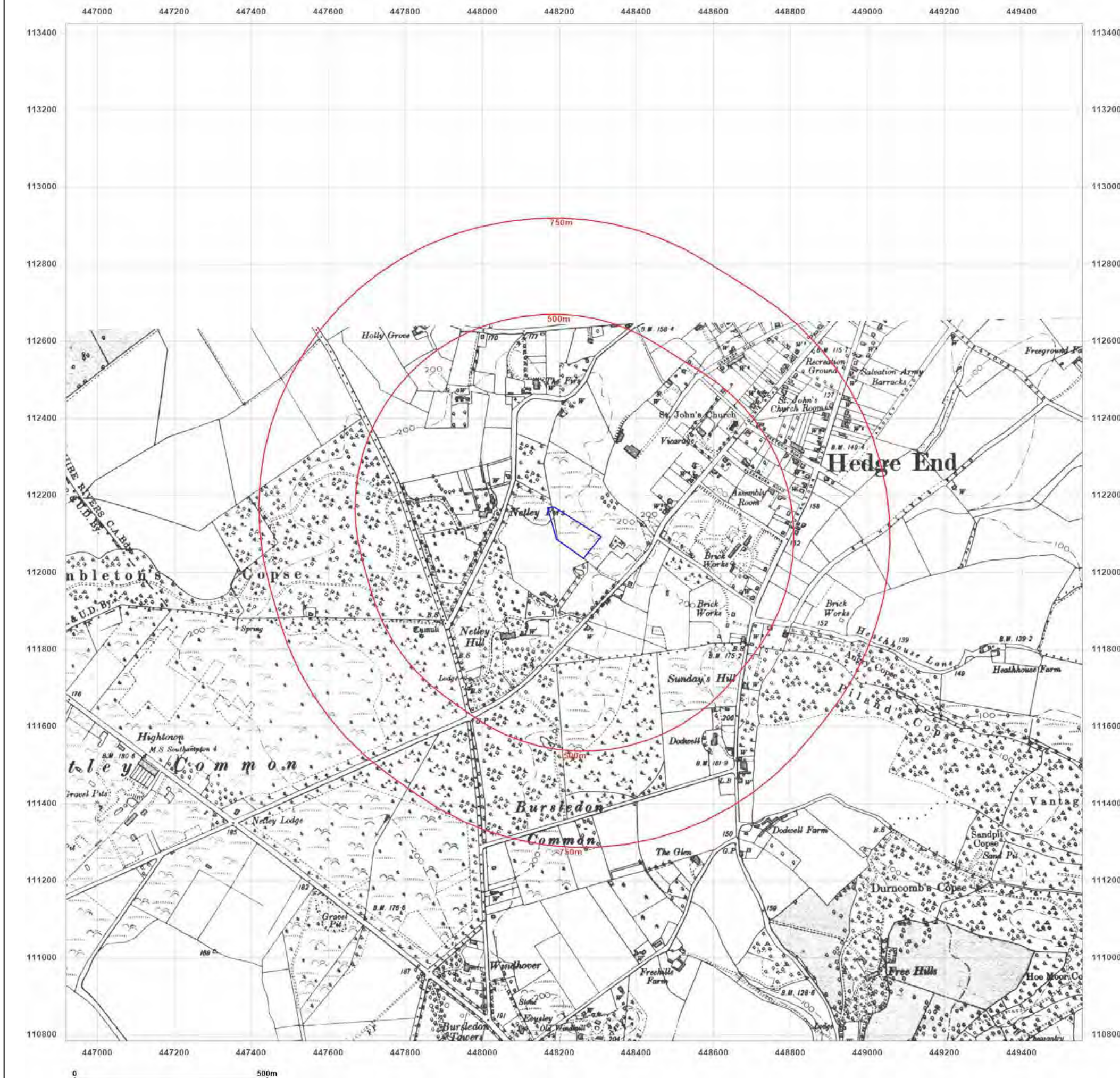


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Site Details:

HOME FARM, ST JOHNS ROAD,
HEDGE END, SO30 4DF

Client Ref: J22-077_-Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: County Series

Map date: 1908-1910

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1867
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1856
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

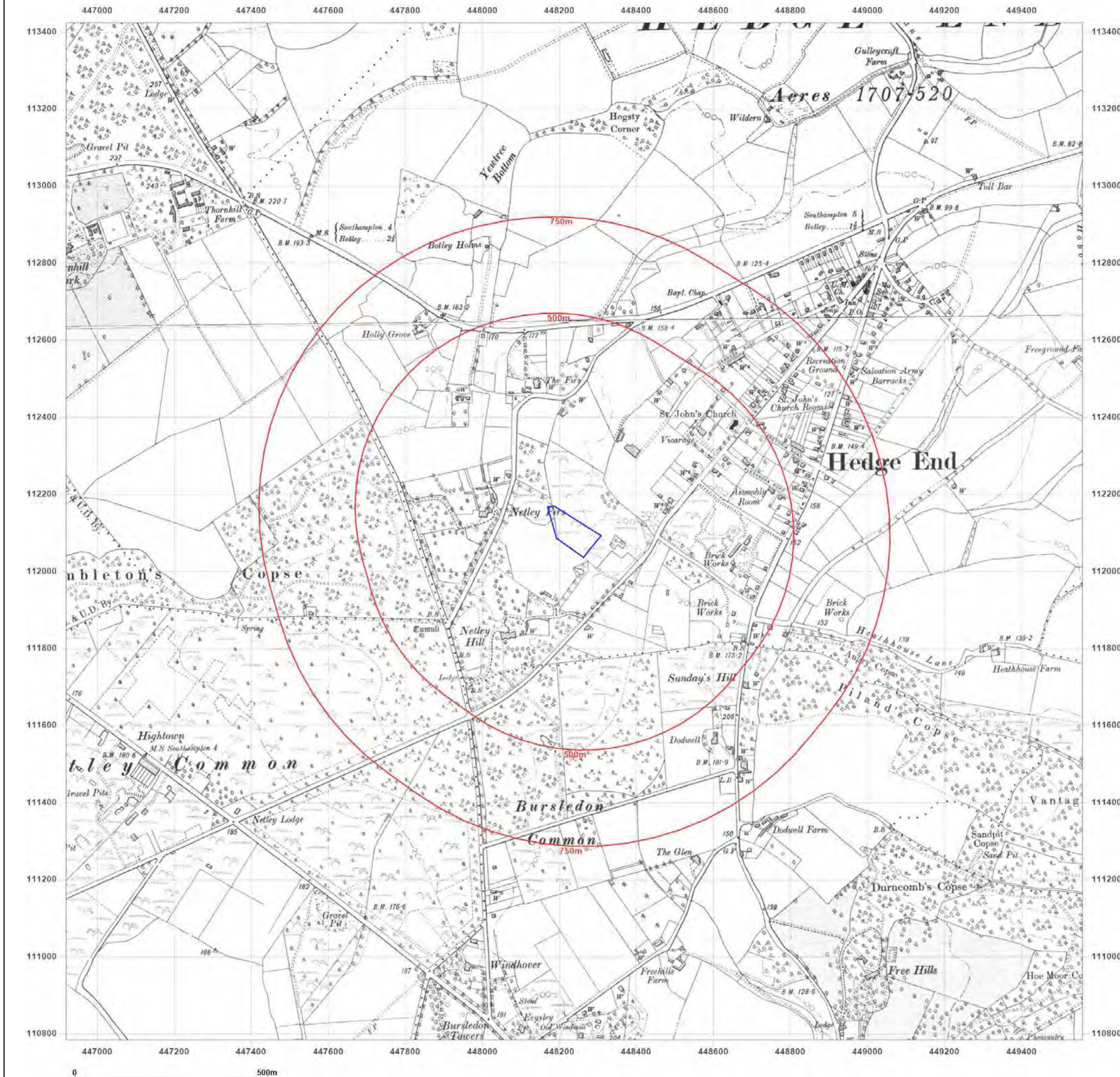


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Site Details:

HOME FARM, ST JOHNS ROAD,
HEDGE END, SO30 4DF

Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: County Series

Map date: 1942

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1856
Revised 1942
Edition N/A
Copyright N/A
Levelled N/A

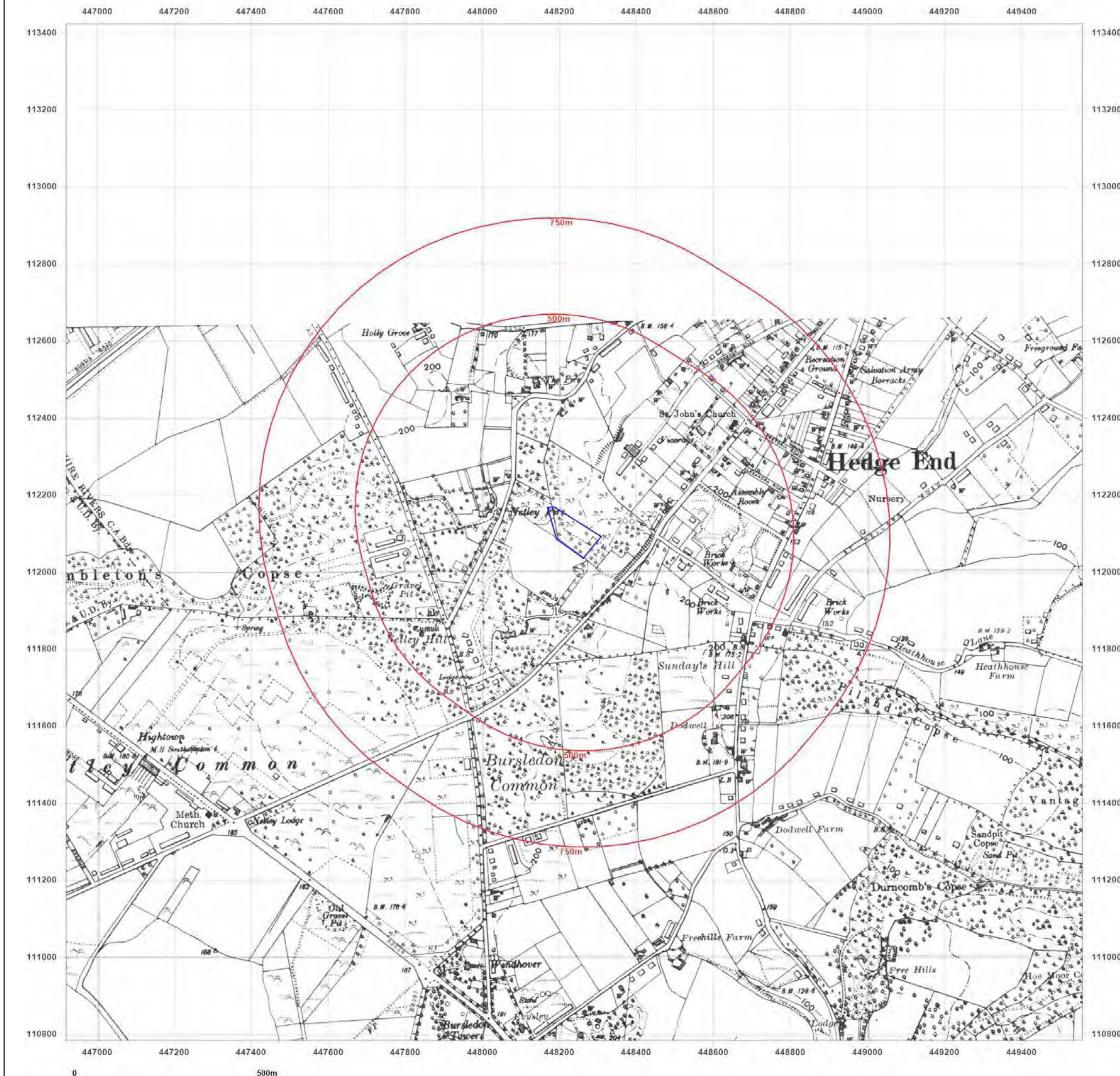


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Site Details:

HOME FARM, ST JOHNS ROAD,
HEDGE END, SO30 4DF

Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

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

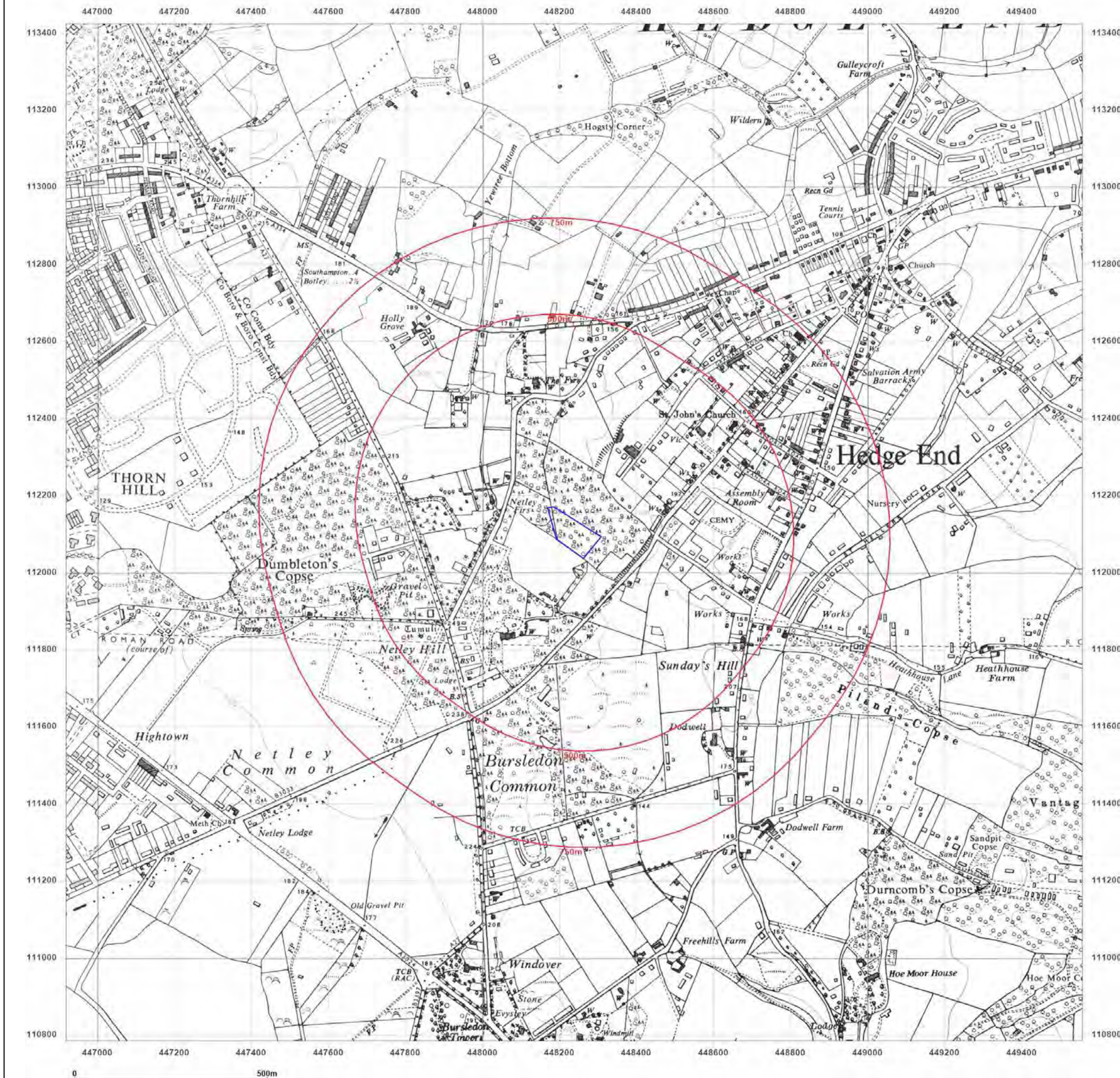


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Site Details:

HOME FARM, ST JOHNS ROAD,
HEDGE END, SO30 4DF

Client Ref: J22-077_-Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

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

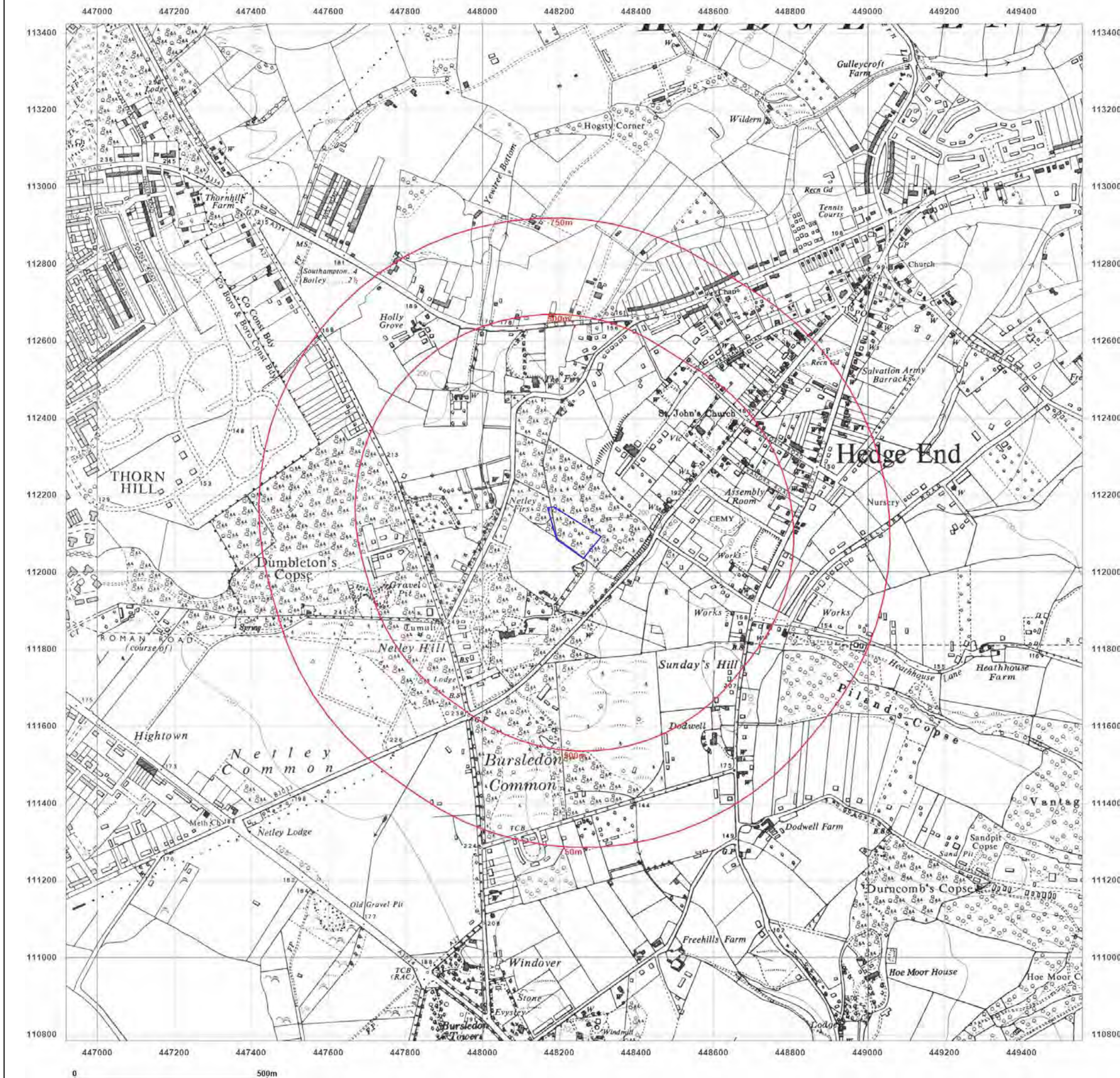


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Site Details:

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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

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

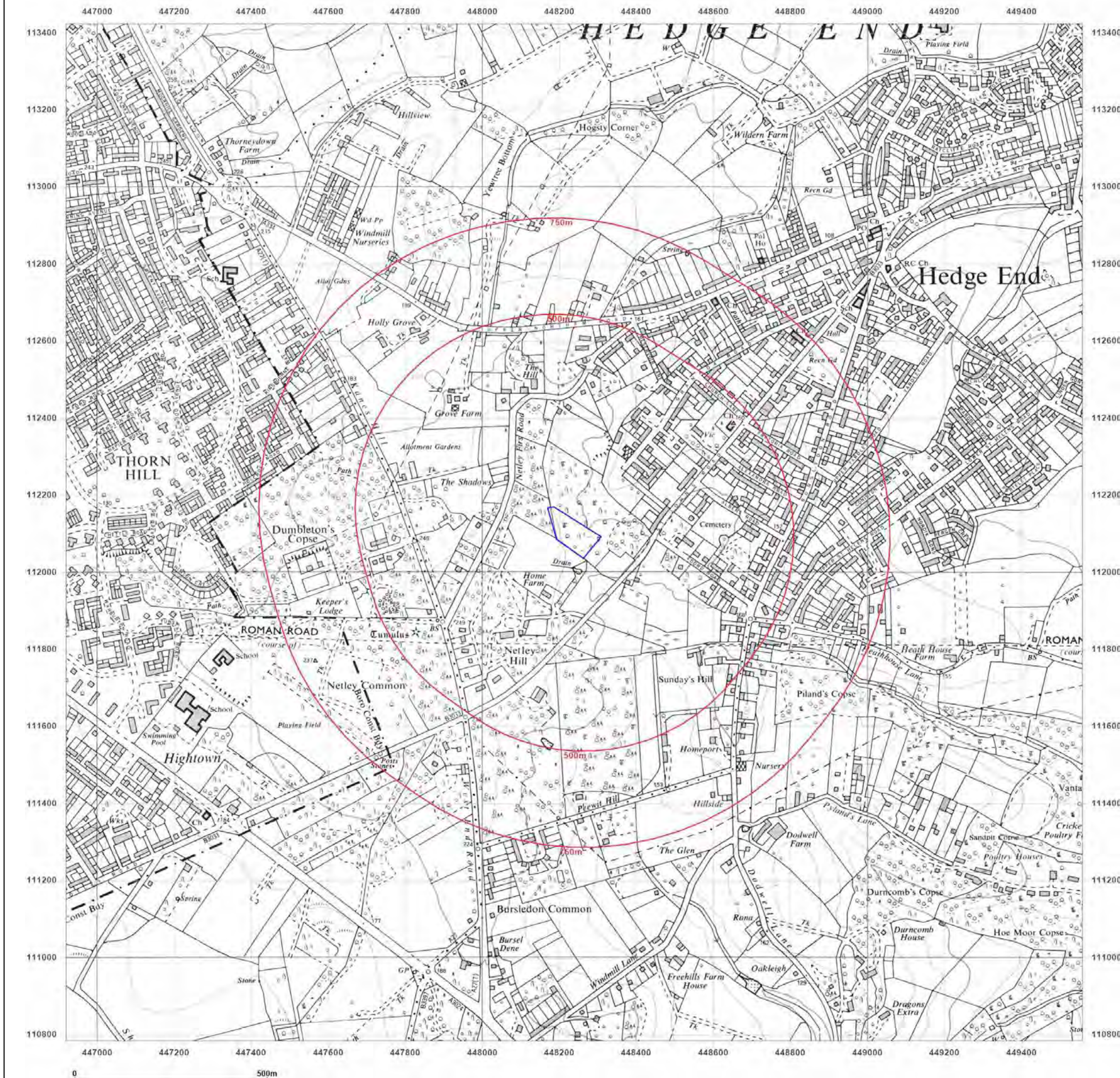


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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

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

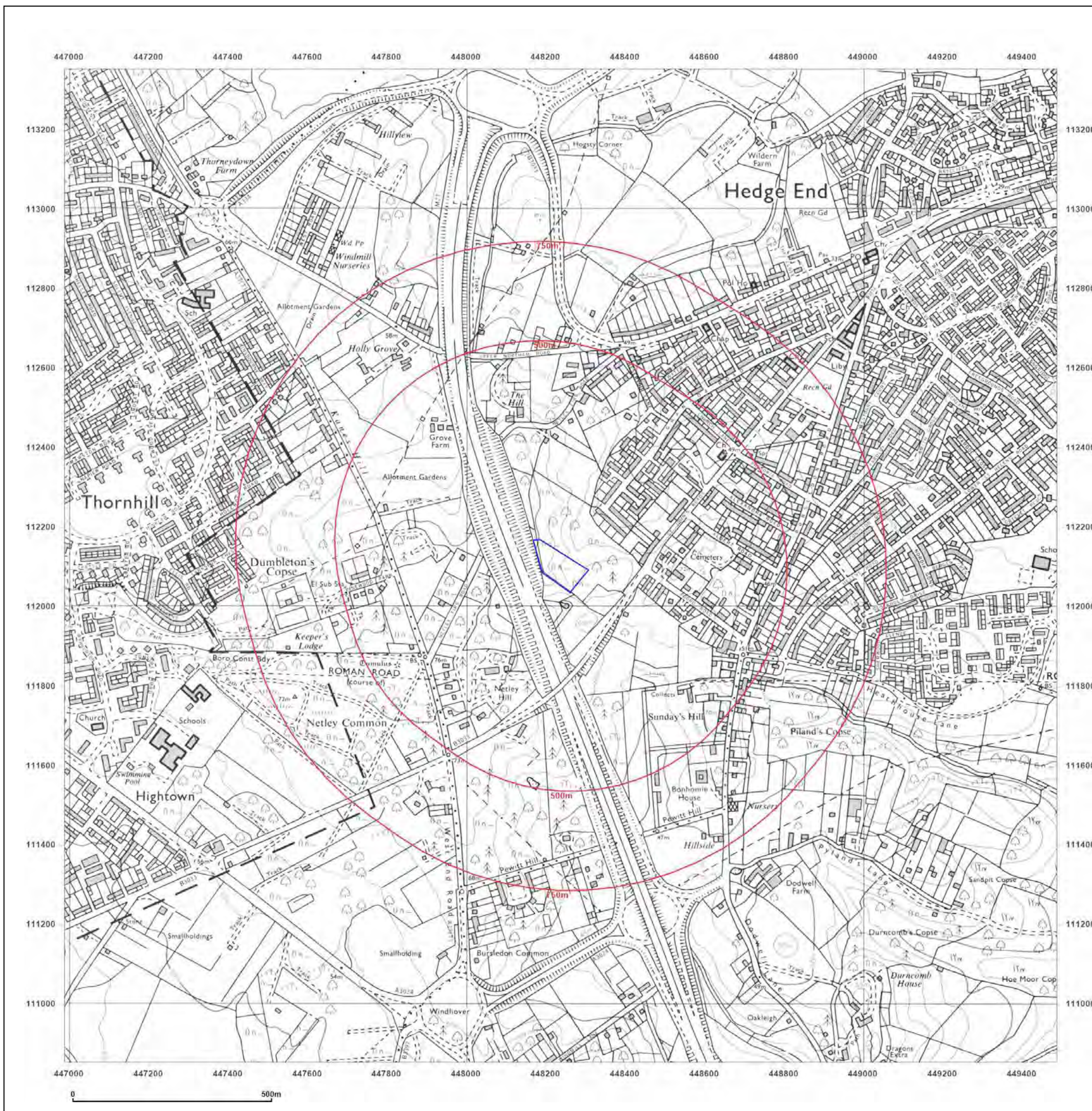


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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

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

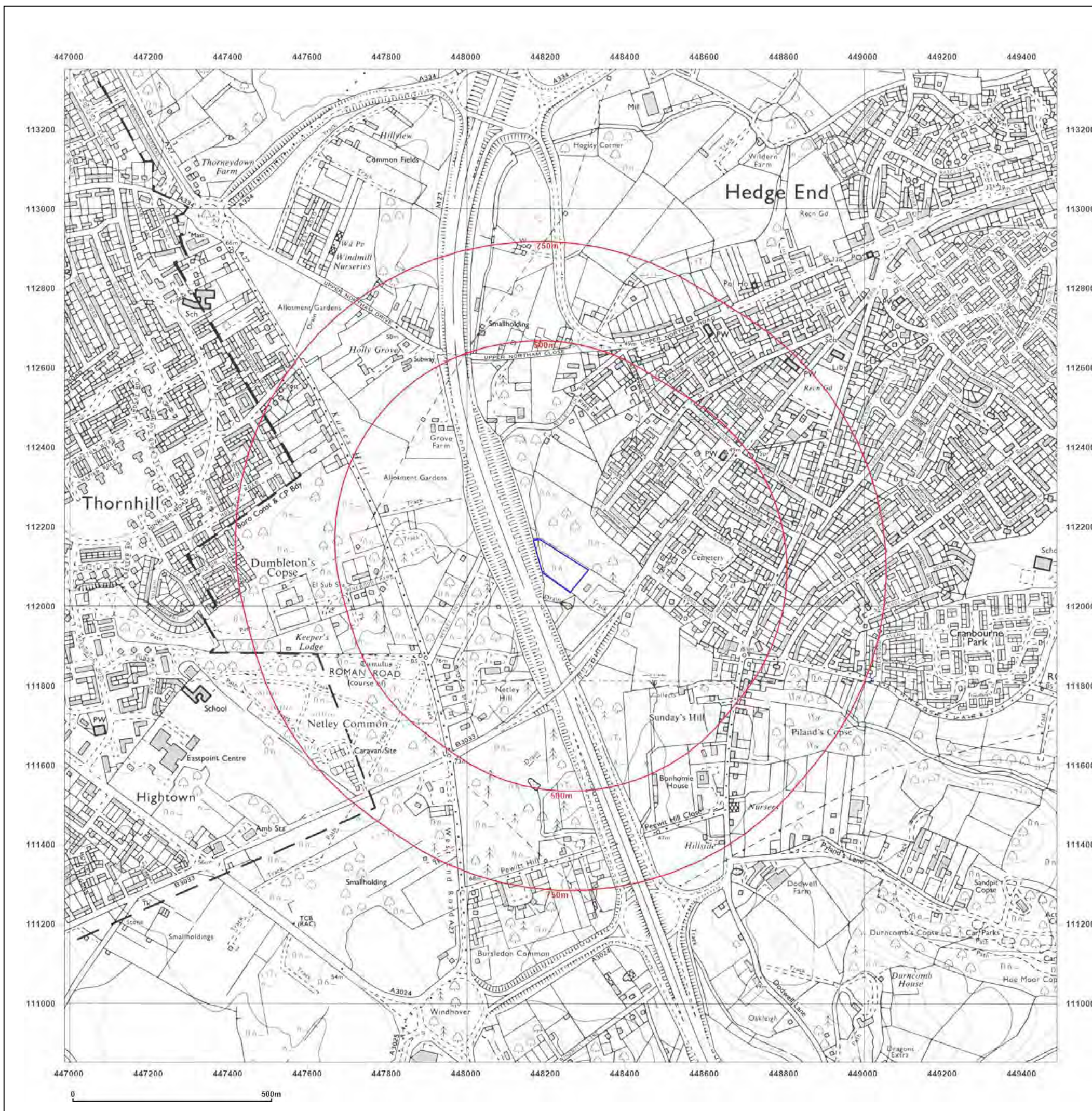


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Site Details:

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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 1993

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1991
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

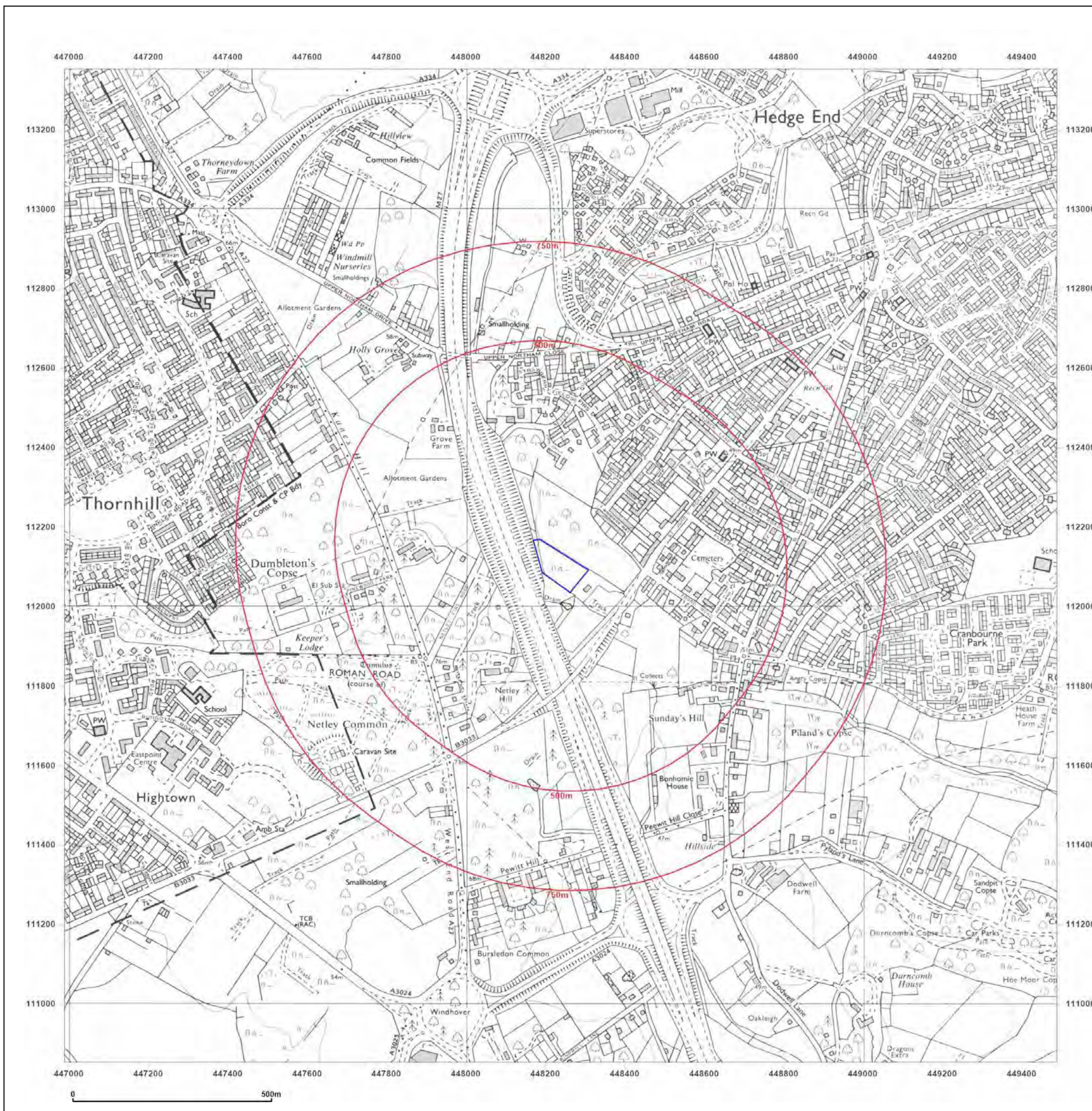


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Site Details:

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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

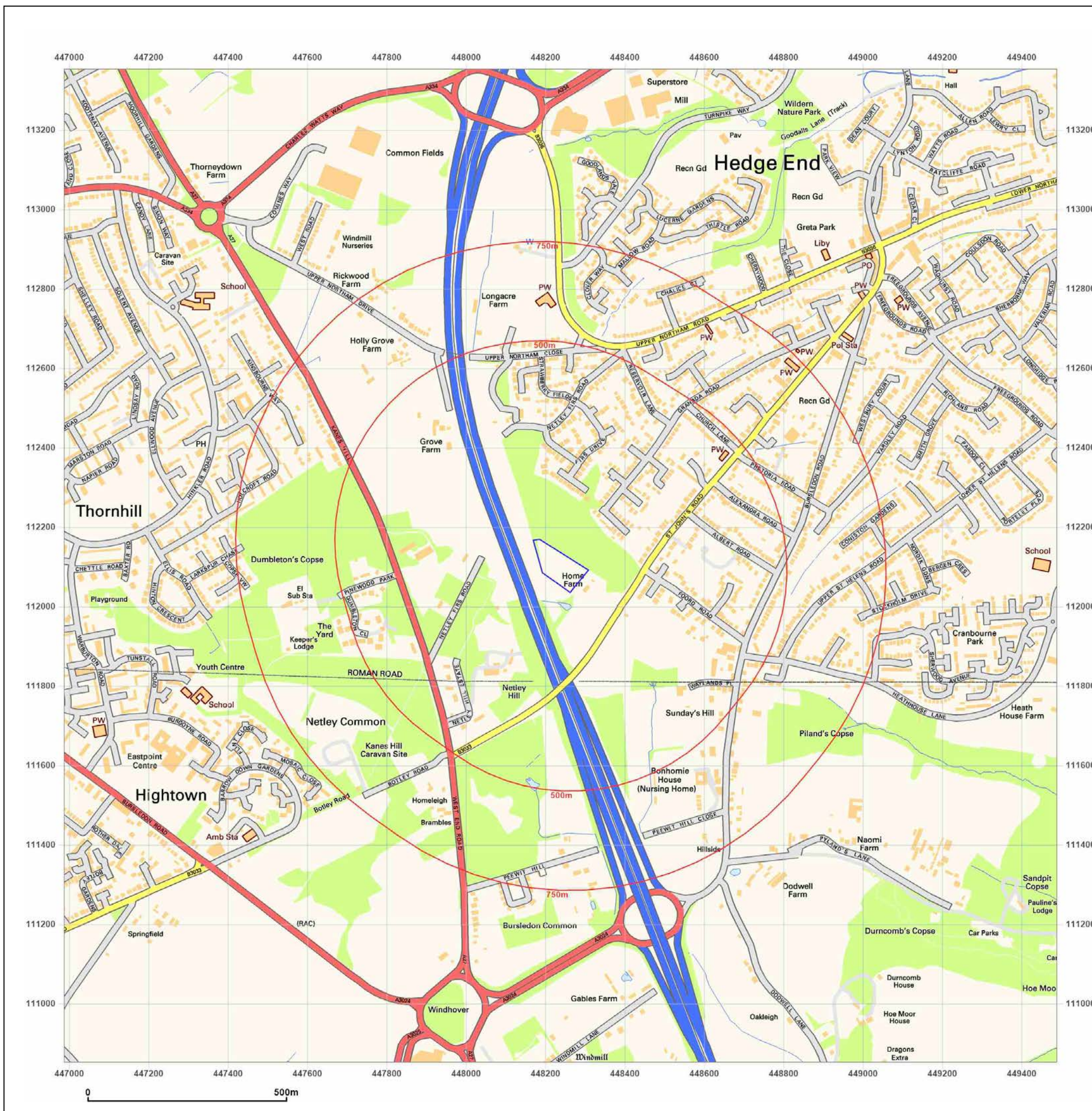


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Site Details:

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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

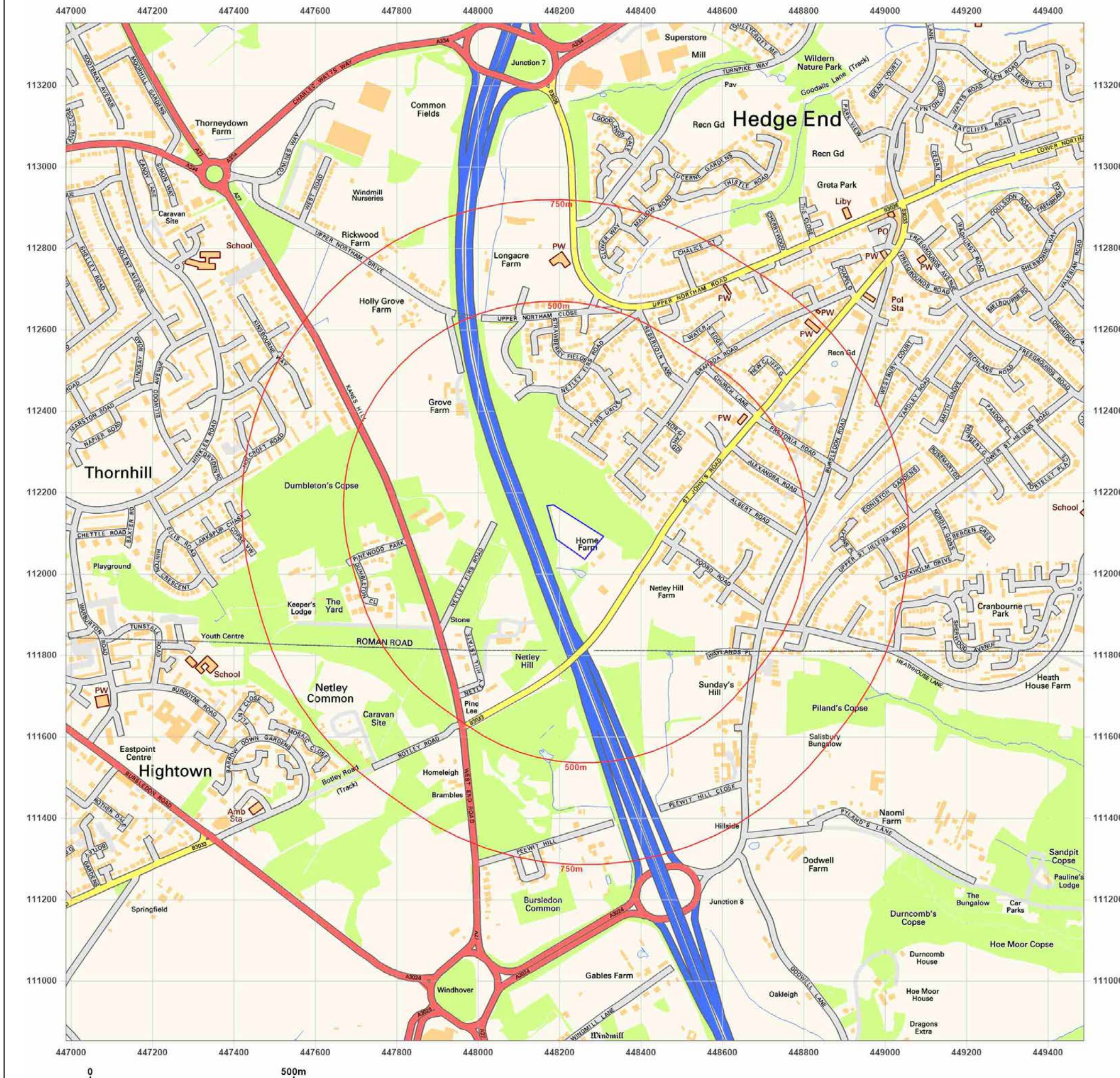


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Site Details:

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Client Ref: J22-077_-_Home_Farm
Report Ref: GS-9203563
Grid Ref: 448238, 112103

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000



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