



## **STAGE 1 GEO-ENVIRONMENTAL DESK STUDY REPORT**

**ON**

**LAND AT HOLBEACH ROAD  
SPALDING**

**ON BEHALF OF**

**COMMERCIAL DEVELOPMENT  
PROJECTS LTD**

**ARP GEOTECHNICAL LTD**

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CLIENT: COMMERCIAL DEVELOPMENT PROJECTS LTD

JOB NUMBER: CDP/34

PROJECT: LAND AT HOLBEACH ROAD, SPALDING

REPORT TYPE: STAGE 1 GEO-ENVIRONMENTAL DESK STUDY

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|                                      | Name                         | Signature                                                                          |
|--------------------------------------|------------------------------|------------------------------------------------------------------------------------|
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## 1.0 EXECUTIVE SUMMARY

The pertinent conclusions of the report are tabulated below. However, the information below is not exhaustive, and it is recommended the report is read in its entirety.

|                          |                                                                                                                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Proposed Development     | Large retail unit and a drive through restaurant, with associated parking, service yards and electric vehicle charging.                                                                                                                                                                         |
| Site Description         | Most of site is heavily vegetated with self-seeded trees and bushes. Landscaped areas and a gravel drive associated with a hotel in the north. 25m wide strip along the eastern edge has rough grass and weeds and is separated from the rest of the site by an open drain and an access track. |
| Site History             | Archive maps show no evidence of development or adverse use of the site, with the exception of access tracks. Adjacent land has been residential, farmland, and roads.                                                                                                                          |
| Geology                  | Tidal Flat Deposits (clay and silt), with mudstone of the Oxford Clay Formation below. BGS archive records in the area show superficial deposits (clay, silt, sand) to be present to a depth of at least 13m.                                                                                   |
| Likely Ground Conditions | Possible made ground, overlying generally soft/loose deposits to a depth of at least 13m. Mudstone at uncertain depth. Likely Shallow groundwater.                                                                                                                                              |
| Coal Mining              | Site can be considered stable.                                                                                                                                                                                                                                                                  |
| Hazardous Gases          | No radon protection measures required. However, there is the possibility of natural peat, old backfilled channels/drains, and organic rich made ground, that could present a gas source. Gas wells should be installed and monitored.                                                           |
| Contamination            | Potentially, from possible made ground. Site investigation required, particularly targeting access tracks on site.                                                                                                                                                                              |
| Foundations              | Piled foundations likely to be required. Tree survey may be needed to design shrink/swell foundation protection measures.                                                                                                                                                                       |

|               |                                                                                                                                                                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Excavations   | Likely to be generally stable within shallow natural strata, but the risk of instability increases with depth, particularly if sands are encountered (potential running sand conditions).                                                     |
| Vibration     | Ground is potentially sensitive to vibration and the use of vibratory compaction plant should be avoided. Unnecessary heavy vehicle or plant movements over the site should also be avoided                                                   |
| Soakaways     | Disposal of surface water using soakaways is not considered to be viable, given the low permeability deposits present on/under the site, the likely presence of shallow groundwater, and the site's location within a Zone 3 flood risk area. |
| Road Pavement | A design CBR of only 1% may be applicable. This would require some form of ground improvement or special construction, such as a geogrid-reinforced granular layer.                                                                           |

## **2.0 INTRODUCTION**

- 2.1 Commercial Development Projects Ltd is considering developing the site at Holbeach Road, Spalding, with a large retail unit, a drive through restaurant, and associated parking and electric vehicle charging. It was considered appropriate to implement a desk study to provide information to aid the planning process, viability assessment, and design of any subsequent development.
- 2.2 ARP Geotechnical Ltd was appointed by Commercial Development Projects Ltd to implement the report, which involved a desk study assessment of the geological and coal mining aspects, site history, potential contamination sources and receptors, and other environmental aspects including radon gas and indicative flood risk.
- 2.3 The report does not include any intrusive assessment, or a site walkover survey (it is known the site is presently densely vegetated).
- 2.4 The report has been prepared for the use and reliance of the Client only. The report shall not be relied upon or transferred to any other parties without the written agreement of ARP Geotechnical Ltd. For the avoidance of any doubt, where ARP Geotechnical Ltd enters into a letter of reliance for the benefit of a third party, that third party will be permitted to rely on the report. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party without ARP Geotechnical Ltd.'s consent.
- 2.5 Attention is drawn to the requirements of the Construction Design and Management Regulations 2015, and in particular the duties and obligation of the Client.
- 2.6 The report refers to, and includes, a copy of an indicative proposed layout. This is only for the purposes of generating a conceptual site model for the contamination risk assessment. Unless the proposed layout changes significantly, such that the conceptual model and risk assessment is affected, there is no requirement to re-issue this report when the layout is revised.

### **3.0 SITE DESCRIPTION**

#### Site Location

- 3.1 The site, which is centred on Ordnance Survey Grid Reference 526670, 323800, is located in the northeastern outskirts of Spalding in Lincolnshire. The site lies to the south of the A151 Holbeach Road, and to the east of the A16, with a roundabout junction of these two trunk roads being adjacent to the northwest of the site.
- 3.2 A site location plan and aerial photograph are presented in Appendix A.
- 3.3 It was known from interactions with the client that the vast majority of the site is heavily vegetated with self-seeded trees and bushes, and it was agreed that the walkover survey would best be undertaken when vegetation has been cleared, at the end of the bird nesting season. Therefore, plans and publicly available aerial and street view images have been used to provide information on the status of the site. These are discussed below.

#### On-Site Features

- 3.4 The site is an irregularly shaped piece of land with overall dimensions of approximately 155m (north - south) by 130m (east - west).
- 3.5 As noted earlier, the vast majority of the site is heavily vegetated, with the exceptions being the northern corner of the site, which contains landscaped areas and a gravel drive associated with a hotel. A 25m wide strip along the eastern edge of the site is another exception, where rough grass and weeds appear to be present, rather than trees and bushes. The strip is separated from the rest of the site by an open drain and an access track.

### Site Boundaries and Surrounding Land Use

- 3.6 The site is bounded to the west by an open drain, with the A16 trunk road and retail/commercial developments beyond. The site is bounded to the south by an open drain, with access track and farmland beyond. To the north is the A151 Holbeach Road, with a McDonalds drive through beyond. The northern half of the eastern boundary has buildings and parking adjacent, associated with a hotel. The southern half of the eastern boundary has farmland beyond.

## 4.0 SITE HISTORY

- 4.1 Ordnance Survey archive maps were obtained for the site. Copies of the maps are included in Appendix B, and a summary of the findings is given below.

| Map Date   | On-Site                                                                                                                                                                                                     | Off-Site                                                                                                                                                                                                    |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1888       | A track crosses the northern and southeastern areas of the site, trending northwest to southeast. The northern end of the site is within the gardens/parkland of a residential property named Pomona Villa. | Holbeach Road (although not named) is already present adjacent to the north of the site. A track runs just outside the southern boundary.                                                                   |
| 1969       | Drains are now shown either side of the track and around the Pomona Villa curtilage.                                                                                                                        | Drains now present either side of the track to the south. Large retail park now present approximately 100m northwest. Large drain called "Lord's Drain" now present on the northwest side of Holbeach Road. |
| 1988       | Between 1977 and 1988, a track is constructed associated with new development to the east/northeast (see adjacent off-site information).                                                                    | "The Pines" has been constructed just outside the eastern boundary, and "Woodhouse" approximately 30m northeast, along with associated access tracks.                                                       |
| 1996       | No significant change.                                                                                                                                                                                      | Between 1995 and 1996, the A16 trunk road and roundabout have been constructed to the west/northwest.                                                                                                       |
| Later Maps | No significant change.                                                                                                                                                                                      | No significant change.                                                                                                                                                                                      |

- 4.2 In summary, the archive maps show no evidence of development or adverse use of the site, with the exception of access tracks. Adjacent land has been used for either residential, farmland, or trunk roads, with no indication of any other adverse activity.

## 5.0 ENVIRONMENTAL SETTING

### Geology

- 5.1 Extracts from the British Geological Survey (BGS) 1:50,000 Series Geology Maps are included within the Envirocheck Geology Report in Appendix C. The maps show the site to be covered by Tidal Flat Deposits (clay and silt), with mudstone of the Oxford Clay Formation below.
- 5.2 The maps do not indicate any potential for the site to be adversely affected by any faults.
- 5.3 BGS archive borehole records in the area show superficial deposits (clay, silt, sand) to be present to a depth of at least 13m.

### Coal Mining

- 5.4 The site is not within a coal mining reporting area and can, therefore, be considered stable with regard to coal mining.

### Hydrogeology

- 5.5 The Landmark Envirocheck Report, included in Appendix D, indicates both the Bedrock Aquifer Designation and the Superficial Aquifer Designation to be Unproductive Strata.
- 5.6 There are no groundwater abstractions within 1km of the site, and the site is not within a groundwater Source Protection Zone.

### Hydrology

- 5.7 The general area is very flat and drained by a network of man-made open drains. The nearest is on-site (crossing the east of the site) but drains are also present just outside the site boundaries to the west, north and south.

5.8 The entire site and surrounding area, for at least 1km, are within a Zone 3 Flood Risk area (rivers or sea without defences). A specialist Flood Risk and Drainage Report should be commissioned, if not already available.

5.9 There are no surface water abstractions within 1km of the site.

#### Other Environmental Data

5.10 The Landmark Envirocheck Report, included in Appendix D, contains information on numerous environmental aspects. A summary of the pertinent findings, not already covered, with additional comments, is given below.

5.10.1 There are several Pollution Control Authorisations within 250m of the site. All but one is related to a meat processing plant 165m southwest. The single exception is related to a petrol filling station 75m north.

5.10.2 There are no discharge consents relating to, or adjacent to, the site.

5.10.3 There are no closed or currently licenced landfills within 250m of the site.

5.10.4 No radon protective measures are stated to be necessary for new dwellings or extensions on the site, and the site is within a "lower probability radon area".

5.10.5 There are no contemporary trade directory entries relating to any activities which could have significant impact on the site.

5.10.6 There is one fuel station entry within 250m of the site, located 74m to the north.

## **6.0 PRELIMINARY CONTAMINATION RISK ASSESSMENT AND CONCEPTUAL MODEL**

6.1 Part II A of the Environmental Protection Act (EPA) 1990 became effective from 1<sup>st</sup> April 2000. The Regime was introduced by the Contaminated Land (England) Regulations 2000 (SI 2000, No. 227) along with the associated DEFRA Circular February 2000.

6.2 Section 78A (2) of the Act defines "Contaminated land is any land ..... in such a condition, by reason of substances in, on or under that land that –

(a) significant harm is being caused or there is a significant possibility of such harm being caused; or

(b) pollution of controlled waters is being caused, or there is a significant possibility of such pollution being caused".

From S78A (4) "Harm" : means harm to the health of living organisms or other interference with the ecological systems of which they form part and, in the case of man, includes harm to his property.

Controlled waters are defined as "..the waters in any relevant lake or pond, or of so much of any relevant river or watercourse as is above the freshwater limit, and ground waters, that is to say, any waters contained in underground strata". From the 1<sup>st</sup> October 2004, the definition of groundwater in relation to Part IIA was amended, by the Second Water Act Commencement Order SI 2004 No 2528. This makes clear that "ground waters" does not include waters above the saturation zone, i.e. does not include any soil water and pore water present in the unsaturated zone.

6.3 The objectives of the regime are to ensure that risks associated with contaminated land are reduced to an acceptable level, having regard to the costs of doing so. The costs should be proportionate, manageable and economically sustainable.

- 6.4 In assessing risk, it is necessary to consider the probability, or frequency, of occurrence of the hazard and the magnitude/seriousness of the consequences. Consequently, for land to be classified as contaminated, it must have, or be very likely to have, a detrimental effect on humans or the environment before it can be classified as contaminated land.
- 6.5 In establishing risk, the concept of the pollutant source/pathway/receptor linkage model, based on current and proposed site use, is to be considered. Therefore, for a site to be deemed contaminated under the Regime, all three linkages must be in place i.e. the site must not only contain harmful substances, but the substances must have a pathway by which to leak out and cause significant harm to a receptor.
- 6.6 The Environment Agency has published guidance on contaminated land, in the form of online documents referred to as LCRM "Land Contamination Risk Management". The documents are intended to provide the technical framework for structured decision making about land contamination, and to assist all those involved in "managing" the land, in particular landowners, developers, financial service providers, planners and regulators. As the documents currently provide the framework for best practice, the general principles are, therefore, followed in conducting the assessment below.
- 6.7 The categorisations of risk adopted in this report are adapted from CIRIA Report C552 (Contaminated Land Risk Assessment: A Guide to Good Practice, 2001). This approach assesses the potential severity of any pollution event and the probability of the event occurring, to arrive at a risk category, for the various potential source - pathway - receptor linkages. The relevant tables used, with the definitions, are presented in Appendix E.

#### Conceptual Site Model

- 6.8 It is known that the site is proposed for a large retail unit and a drive through restaurant, with associated parking, service yards and electric vehicle charging. An indicative proposed site layout is included in Appendix F. The site is shown to be covered by Tidal Flat Deposits (clay and silt), with mudstone of the Oxford Clay Formation below. BGS archive borehole

records show superficial deposits (clay, silt, sand) to be present to a depth of at least 13m in the area. Both the solid strata and the superficial strata beneath the site are designated as Unproductive Strata. There are no groundwater or surface water abstractions within 1km of the site. The area is generally very flat and drained by a network of man-made open drains, the nearest of which crosses the east of the site.

- 6.9 The Ordnance Survey archive maps show no evidence of development or adverse use of the site, with the exception of access tracks. Adjacent land has been used for either residential, farmland, or trunk roads, with no indication of any other adverse activity. There is, therefore, no indication of any uses likely to have significantly contaminated the site. However, made ground may be present, either forming access tracks, or beneath them, and elsewhere as a result of land raising for drainage purposes. It is also possible that old drainage channels (natural or man-made) could be present on site, containing either made ground or organic matter-rich natural deposits, and naturally occurring peat may also be present.
- 6.10 in the light of the above, potential contamination sources are considered to be:
- 6.10.1 Possible made ground: – metals inorganics, total petroleum hydrocarbons (TPH), polyaromatic hydrocarbons (PAH), phenol, asbestos.
- 6.10.2 Possible harmful gases from natural peat, organic-rich made ground, or natural channel infill: - methane, carbon dioxide.
- 6.11 The conceptual model needs to consider sources of contamination, pathways along which contaminants could migrate and the receptors, which may become exposed. Guidance published by the Environment Agency has been consulted with regard to pathways and receptors. The potential sources, pathways, and receptors, applicable to the proposed development are identified on the table below. Any pathways in italics are deemed not to be viable, and the reason given.

### Potential Source - Pathway - Receptor Matrix (Finished Development)

| Contamination Sources                                                               | Pathways                                                                                                                             | Receptors                                                                                                                                                        | Severity of Consequence | Probability of Event | Risk         |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|--------------|
| Possible made ground: - metals, inorganics, TPH, PAH, phenol                        | <ul style="list-style-type: none"> <li>Inhalation, ingestion and dermal contact with soil and dust</li> </ul>                        | <b>Humans: -</b> <ul style="list-style-type: none"> <li>Future site users</li> <li>Maintenance workers</li> <li>Adjacent residents and general public</li> </ul> | Medium                  | Low Likelihood       | Moderate/Low |
|                                                                                     | <ul style="list-style-type: none"> <li><i>Fruit and vegetable intake, with soil (not applicable to the site proposal)</i></li> </ul> | <b>Humans (as above)</b>                                                                                                                                         | Pathway Not Applicable  |                      |              |
|                                                                                     | <ul style="list-style-type: none"> <li>Vapour inhalation outdoor</li> </ul>                                                          | <b>Humans (as above)</b>                                                                                                                                         | Medium                  | Low Likelihood       | Moderate/Low |
|                                                                                     | <ul style="list-style-type: none"> <li>Vapour inhalation indoor</li> </ul>                                                           | <b>Humans (as above)</b>                                                                                                                                         | Medium                  | Low Likelihood       | Moderate/Low |
|                                                                                     | <ul style="list-style-type: none"> <li>Migration in surface water</li> </ul>                                                         | <ul style="list-style-type: none"> <li>Surface water (nearest is on-site. There are no abstractions within 1km)</li> </ul>                                       | Mild                    | Unlikely             | Very Low     |
|                                                                                     | <ul style="list-style-type: none"> <li><i>Migration in groundwater</i></li> </ul>                                                    | <ul style="list-style-type: none"> <li><i>Groundwater (Unproductive Strata, no abstractions within 1km)</i></li> </ul>                                           | Pathway Not Applicable  |                      |              |
|                                                                                     | <ul style="list-style-type: none"> <li>Root uptake</li> </ul>                                                                        | <b>Vegetation: -</b> <ul style="list-style-type: none"> <li>Landscape areas</li> </ul>                                                                           | Medium                  | Low Likelihood       | Moderate/Low |
|                                                                                     | <ul style="list-style-type: none"> <li>Migration</li> </ul>                                                                          | <b>Services/Utilities: -</b> <ul style="list-style-type: none"> <li>Potable water supply</li> </ul>                                                              | Medium                  | Low Likelihood       | Moderate/Low |
| Possible organic-rich made ground/channel infill/peat: - methane and carbon dioxide | <ul style="list-style-type: none"> <li>Asphyxiation</li> <li>Explosive risk</li> </ul>                                               | <ul style="list-style-type: none"> <li>Construction/de-molition workers</li> <li>Future site users</li> <li>Buildings</li> </ul>                                 | Severe                  | Low Likelihood       | Moderate     |
| Possible asbestos within possible made ground                                       | <ul style="list-style-type: none"> <li>Inhalation</li> </ul>                                                                         | <ul style="list-style-type: none"> <li>Future site users</li> <li>Maintenance workers</li> <li>Adjacent residents and general public</li> </ul>                  | Severe                  | Low Likelihood       | Moderate     |

6.12 The above matrix indicates there are potential source – pathway – receptor linkages applicable to the proposed development. These will need to be assessed further, and recommendations are provided within Section 8.0 of this report (Recommended Further Work).

## **7.0 GEOTECHNICAL ASSESSMENT**

### Coal Mining

- 7.1 The site is stable with regard to coal mining.

### Foundations

- 7.2 The Tidal Flat deposits on the site are likely to be poorly consolidated and, therefore, soft/loose for a significant depth. It is likely that the deposits will provide insufficient support for strip, trench fill or pad foundations, and that alternatives such as piles will need to be considered. It is recommended that a ground investigation is carried out, to include in situ testing and also to include deep cable percussion boreholes that could be used to assist pile design.
- 7.3 Clays are likely to be present on the site, and the site is currently largely covered by young trees. Past, present and future trees will need to be taken into account for foundation design in order to prevent damage from shrink/swell. If not already available, a tree survey may be required. The tree survey will need to include mature trees on third party properties within a 30m radius.

### Gas Protection

- 7.4 No radon protective measures are required for buildings to be constructed on the site.
- 7.5 There are no landfills within 250m of the site. However, there is a possibility of natural peat, old backfilled channels/drains, and organic rich made ground, that could present a gas source. Therefore, it would be prudent to install and monitor gas wells. This is discussed in more detail in Section 8.0 (Recommended Further Work).

### Behaviour of Excavations

- 7.6 It is likely that excavations into the shallow natural strata will remain stable in the short term, requiring minimal trench support, in accordance with the prevailing statutory guidance. However, the risk of instability increases with depth, particularly if sands are encountered. The presence of a shallow groundwater table in conjunction with sands could result in running sand conditions, and the BGS data highlights this by indicating the site has "Moderate Potential" for running sands.
- 7.7 Given the open drain network on/around the site, the groundwater table may be shallow, and this could result in groundwater ingress into excavations, slowly where cohesive deposits are forming the excavation faces, but more rapidly if sands are encountered (including running sands). Excavations should be terminated if running sands are encountered and, generally, excavation depths should be minimised as far as possible.
- 7.8 Excavations into the natural subsoils will probably be readily achieved using conventional hydraulic plant.

### Compaction and Trafficking

- 7.9 The Tidal Flat Deposits are potentially sensitive to vibrations and the use of vibratory compaction plant should be avoided. Dead rolling is advised for compacting materials. Trafficking over the site by heavy vehicles may also lead to deterioration and, therefore, unnecessary heavy vehicle or plant movements over the site should be avoided.

### Road Pavement Construction

- 7.10 For any areas of road pavement, including car parking areas, the design California Bearing Ratio (CBR) will depend upon the exact nature of the formation. On the Tidal Flat Deposits indicated to form the surface of the site, a design CBR of only 1% may be applicable. This would require some form of ground improvement or special construction, such as a geogrid-reinforced granular layer.

### Flooding and Soakaways

- 7.11 The site is within a large area that is at risk from flooding by rivers/sea (Zone 3). A specialist Flood Risk and Drainage Report should be commissioned, if not already available.
- 7.12 The disposal of surface water using soakaways is not considered to be viable, given the low permeability deposits present on/under the site, the likely presence of shallow groundwater, and the site's location within a Zone 3 flood risk area.

## 8.0 RECOMMENDED FURTHER WORK

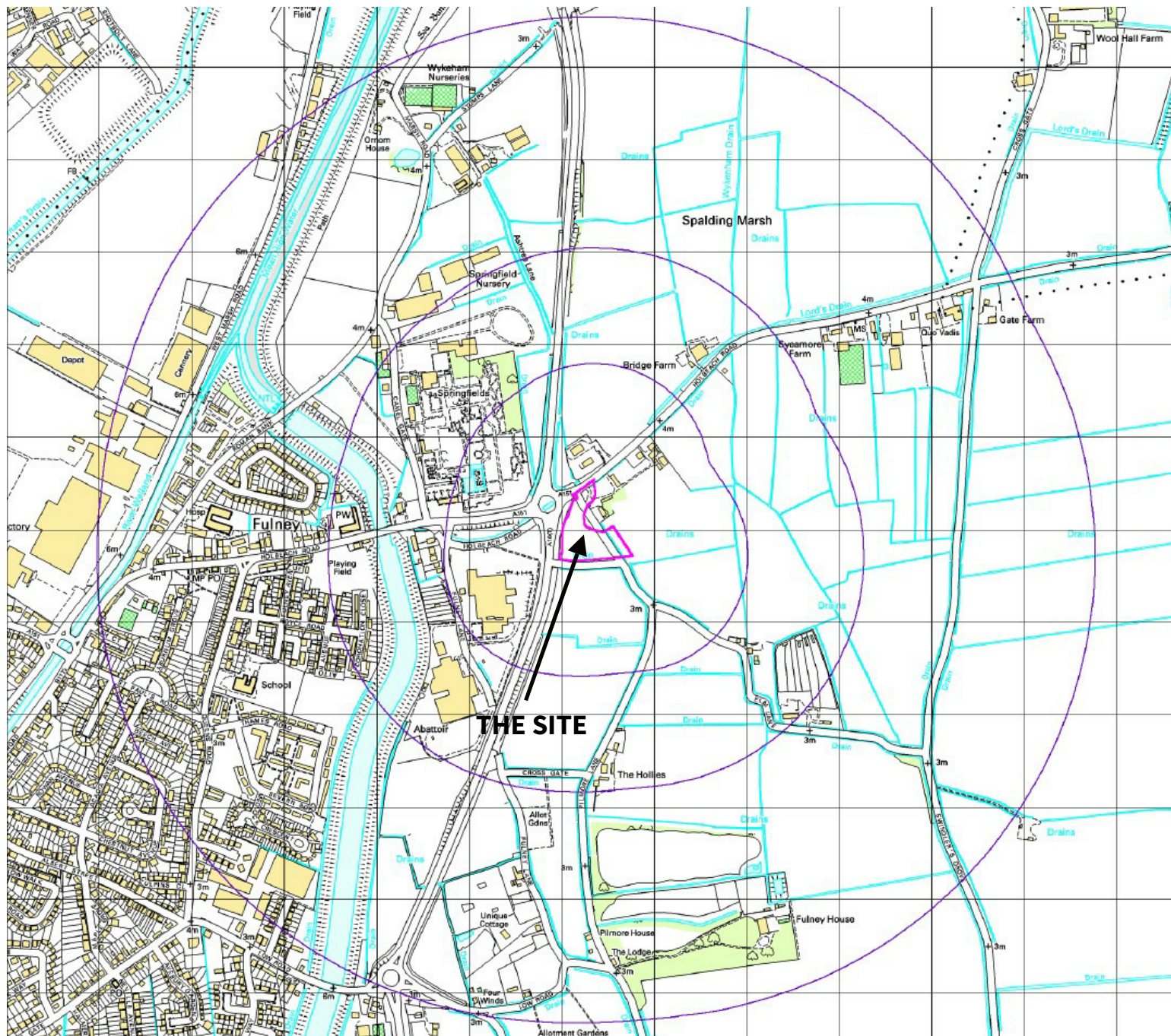
- 8.1 It is recommended that a ground investigation on a grid system is implemented, together with sampling and testing of the materials encountered for potential contaminants. The investigation should be implemented in accordance with BS10175: 2011 + A2 : 2017 "Investigation of potentially contaminated sites - Code of practice". The existing/old access tracks on site should also be targeted for sampling, along with any areas that are suspected to have been artificially raised.
- 8.2 To comply with relevant codes of practice, the investigation work should be carried out by a Fellow of the Geological Society or equivalent, under the supervision of a suitably qualified Chartered Geologist or Chartered Engineer.
- 8.3 Samples of any made ground and topsoil should be issued for testing to a UKAS accredited laboratory for a broad suite of determinands including metals, inorganics, asbestos, phenols, speciated PAH, and TPH. Speciated assessment of TPH will be required for any elevated levels.
- 8.4 Gas monitoring wells should be installed and monitored. The number of visits required depends on the sensitivity of the proposed development and the generation potential of the source, as per the table provided below, adapted from CIRIA C665 "Assessing risks posed by hazardous ground gases to buildings".

|                            |                    | Generation Potential of Source |     |          |      |           |
|----------------------------|--------------------|--------------------------------|-----|----------|------|-----------|
|                            |                    | Very Low                       | Low | Moderate | High | Very High |
| Sensitivity of Development | Low (Commercial)   | 4                              | 6   | 6        | 12   | 12        |
|                            | Moderate (Flats)   | 6                              | 6   | 9        | 12   | 24        |
|                            | High (Residential) | 6                              | 9   | 12       | 24   | 24        |

- 8.5 The visits above are typically on a fortnightly basis. It is recommended that the wells should be monitored on four fortnightly occasions, on the basis that the generation potential is considered to be Very Low and the sensitivity Low. In order for visits to occur during periods of low and falling pressure, flexibility is required with regard to monitoring intervals, and this can, therefore, affect the total duration of the monitoring period.
- 8.6 It is likely that a ground investigation for geotechnical/engineering design purposes will be required, and it is usually more economical for both aspects to be combined as a single geo-environmental investigation /report. Deep cable percussion boreholes are recommended to be included in the investigation, as these will provide information for piled foundation design.

## **APPENDIX A**

### **SITE LOCATION PLAN AND AERIAL PHOTOGRAPH**



0m 400m

Approximate Scale



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Project

LAND AT HOLBEACH ROAD  
SPALDING

Client

COMMERCIAL DEVELOPMENT  
PROJECTS LTD

Title

SITE LOCATION PLAN

Date

JULY 2024

Drawn

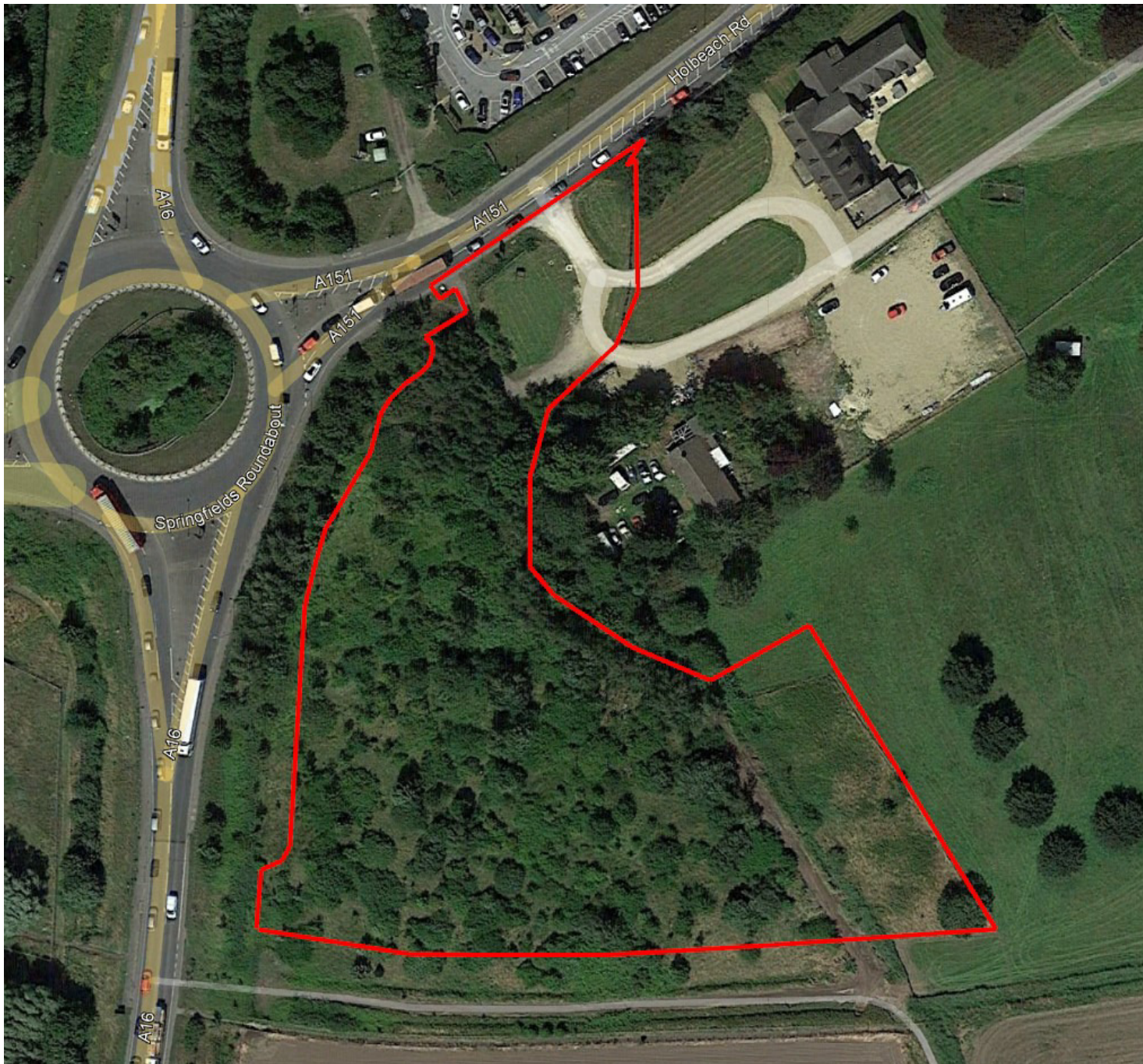
JR

Scale

AS SHOWN

Job No.

CDP/34



0m 40m

Approximate Scale

**ARP**

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Project

LAND AT HOLBEACH ROAD  
SPALDING

Client

COMMERCIAL DEVELOPMENT  
PROJECTS LTD

Title

AERIAL PHOTOGRAPH

Date

JULY 2024

Drawn

JR

Scale

AS SHOWN

Job No.

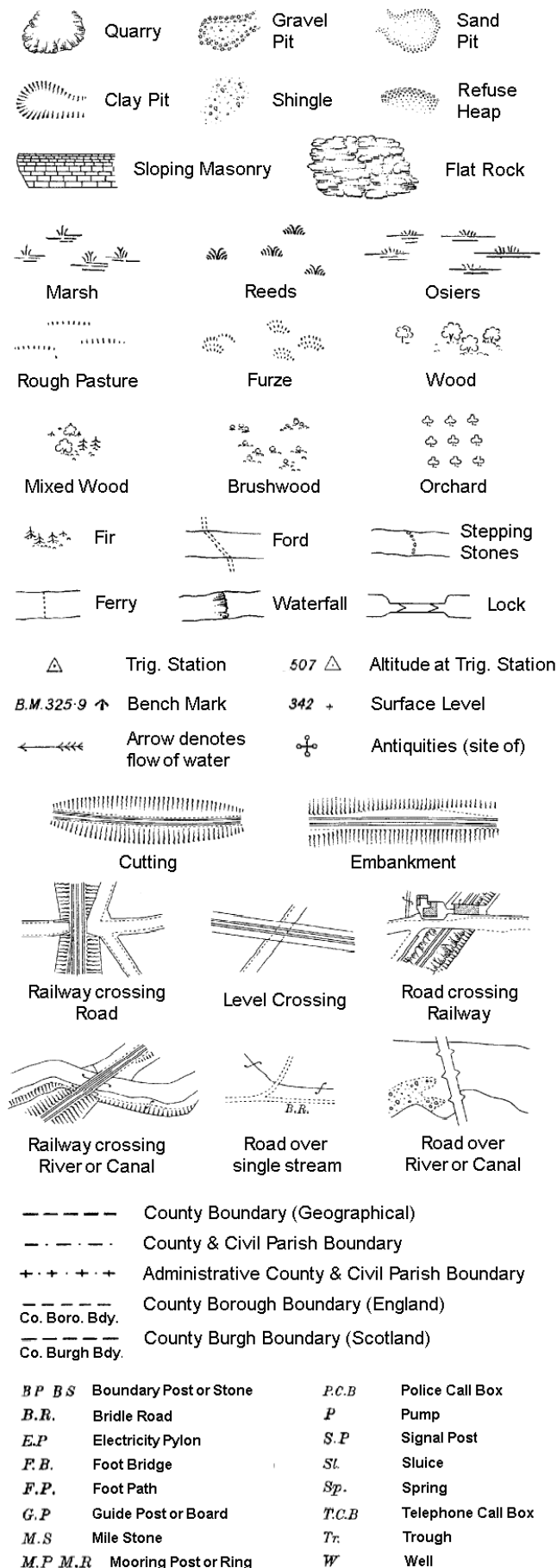
CDP/34

## **A P P E N D I X B**

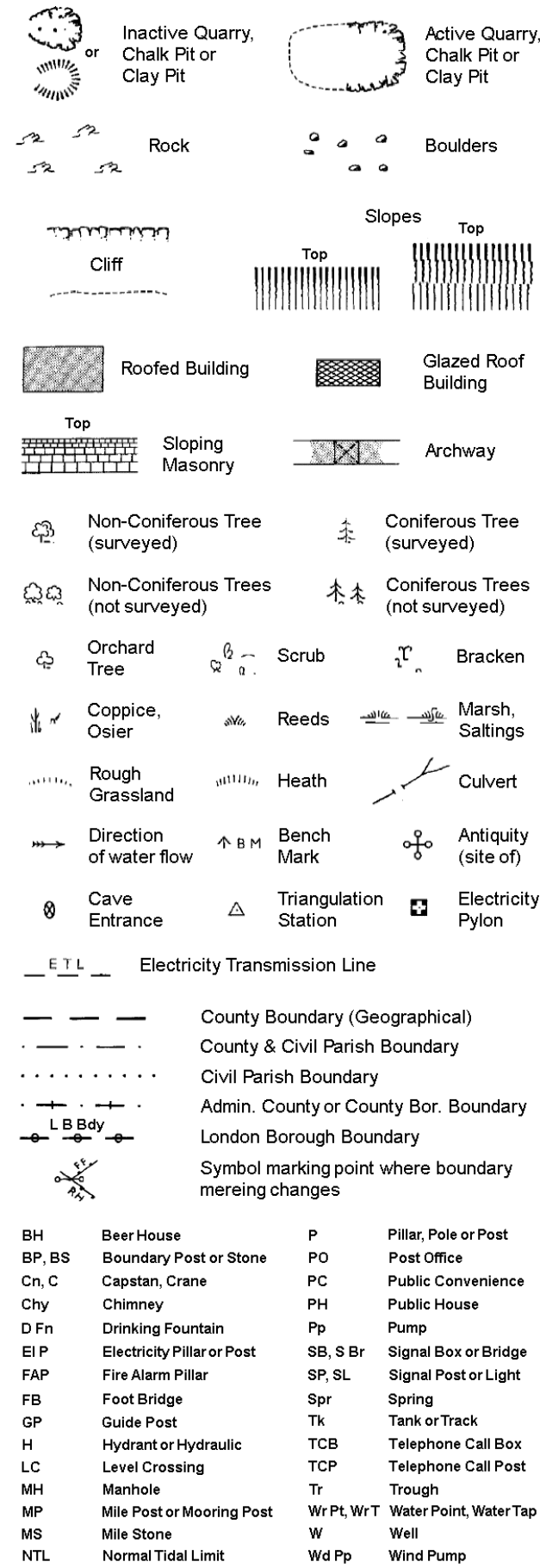
### **ORDNANCE SURVEY ARCHIVE MAPS**

# Historical Mapping Legends

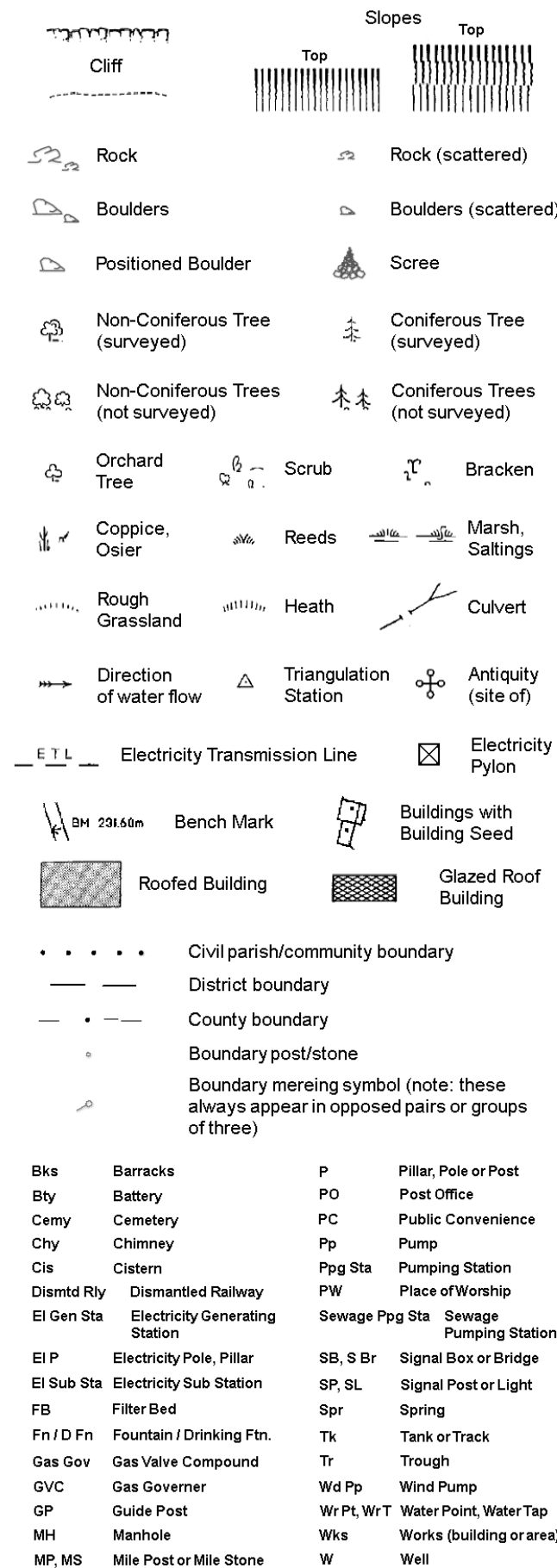
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



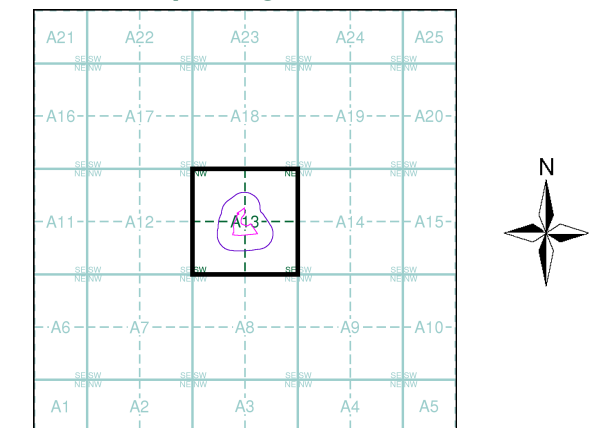
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

| Mapping Type                   | Scale   | Date        | Pg |
|--------------------------------|---------|-------------|----|
| Lincolnshire                   | 1:2,500 | 1888 - 1889 | 2  |
| Lincolnshire                   | 1:2,500 | 1904        | 3  |
| Lincolnshire                   | 1:2,500 | 1932        | 4  |
| Ordnance Survey Plan           | 1:2,500 | 1969        | 5  |
| Additional SIMs                | 1:2,500 | 1977 - 1987 | 6  |
| Additional SIMs                | 1:2,500 | 1988        | 7  |
| Additional SIMs                | 1:2,500 | 1993        | 8  |
| Large-Scale National Grid Data | 1:2,500 | 1995        | 9  |
| Large-Scale National Grid Data | 1:2,500 | 1996        | 10 |

## Historical Map - Segment A13



## Order Details

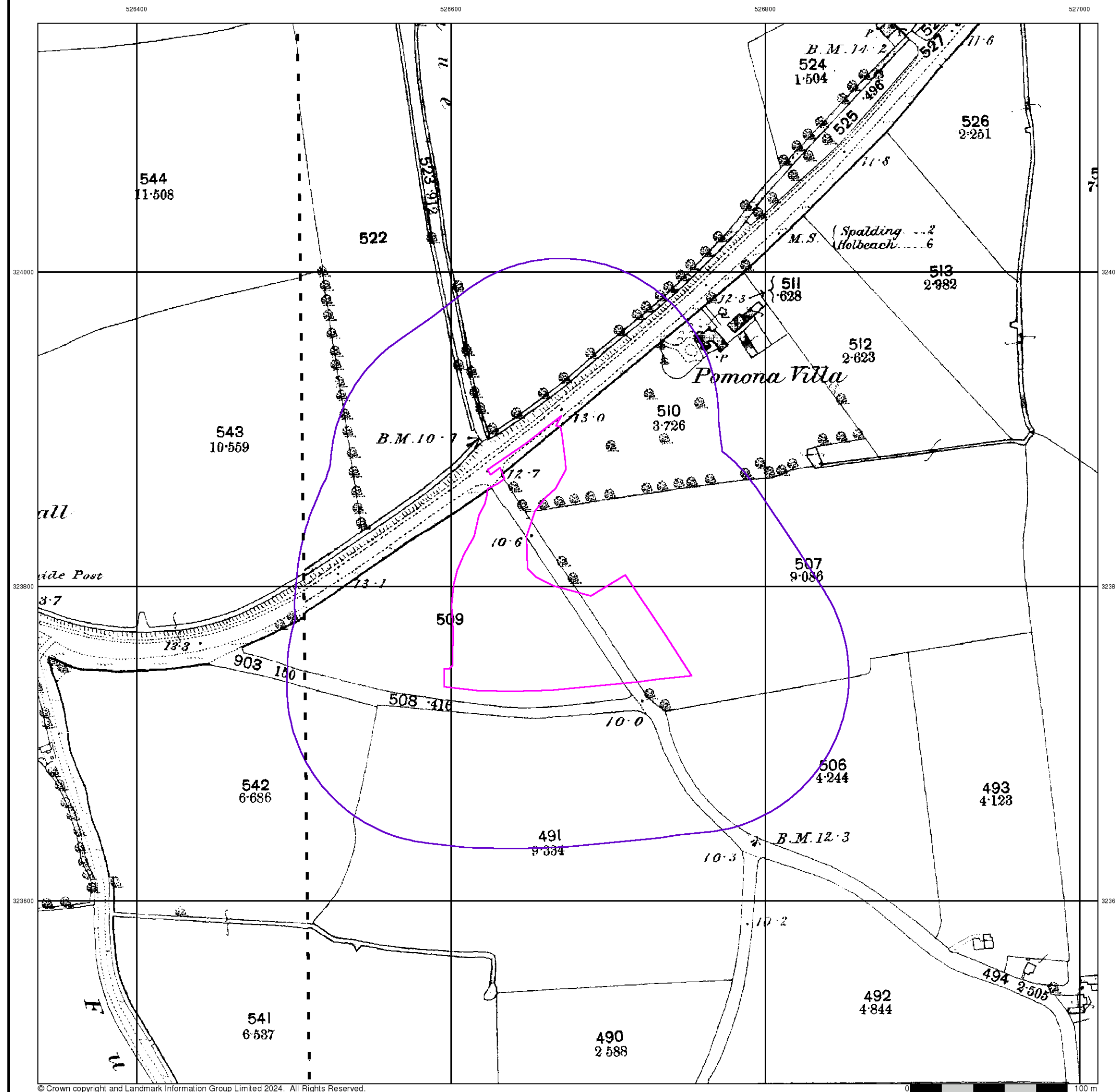
Order Number: 353243700\_1\_1  
Customer Ref: CDP/34  
National Grid Reference: 526670, 323800  
Slice: A  
Site Area (Ha): 1.25  
Search Buffer (m): 100

## Site Details

Land off Holbeach Road, Spalding, PE12 6JP



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



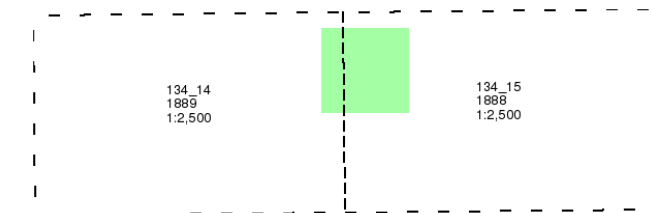
## Lincolnshire

Published 1888 - 1889

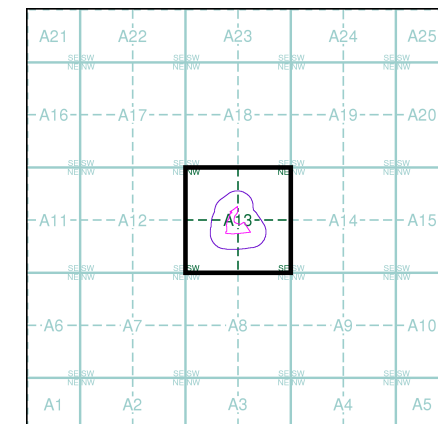
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



## Historical Map - Segment A13



## Order Details

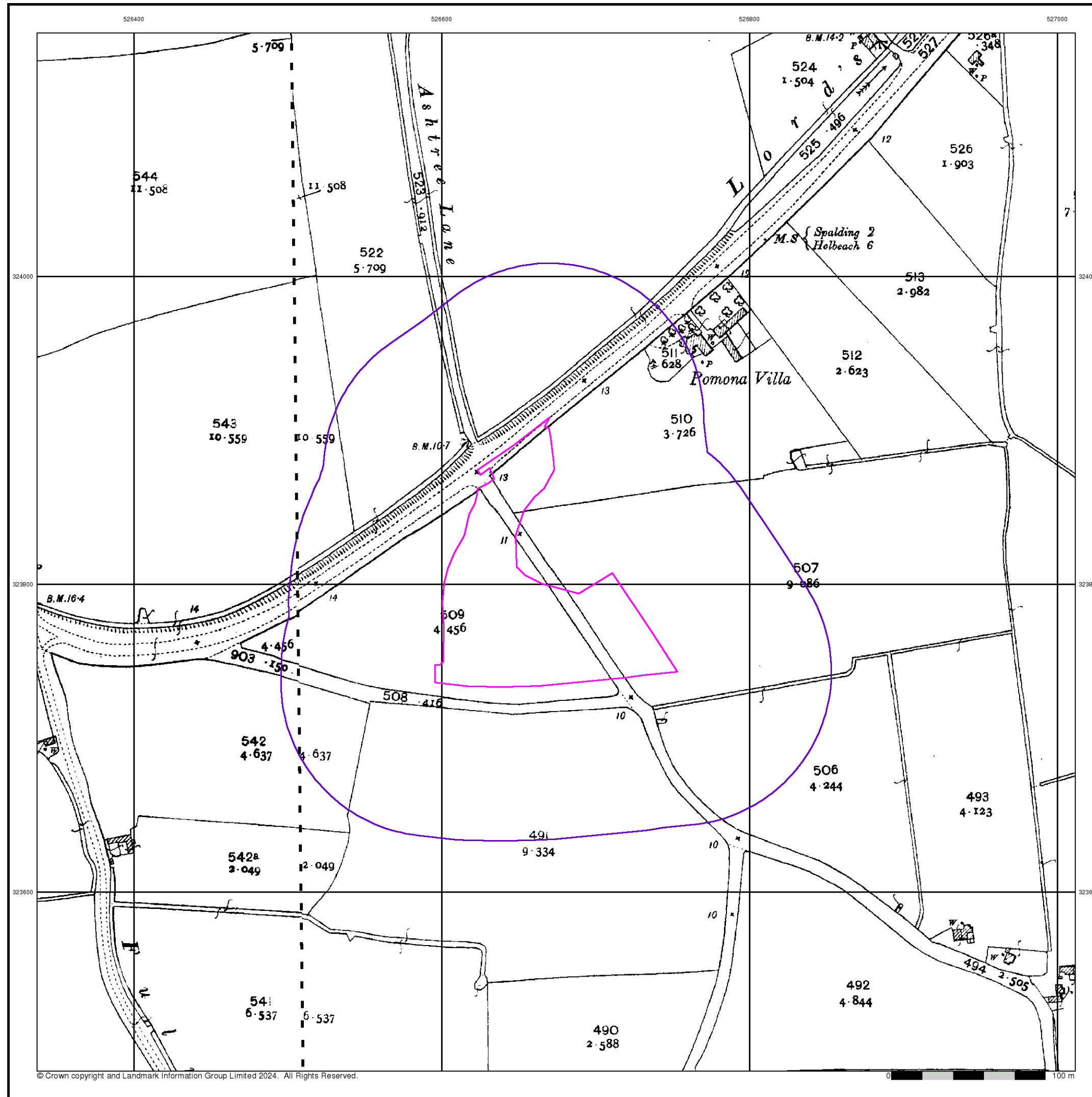
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Customer Ref: CDP/34  
National Grid Reference: 526670, 323800  
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Site Area (Ha): 1.25  
Search Buffer (m): 100

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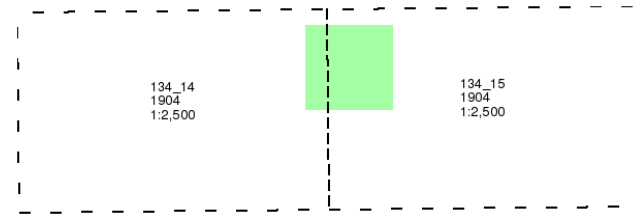
Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



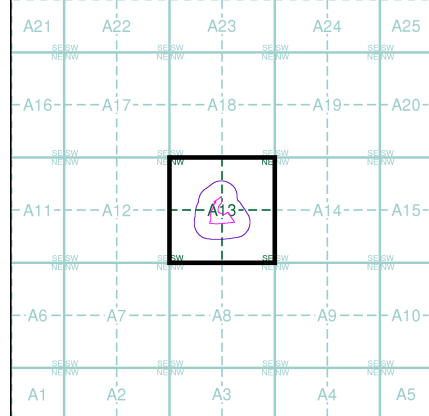
Lincolnshire  
Published 1904  
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

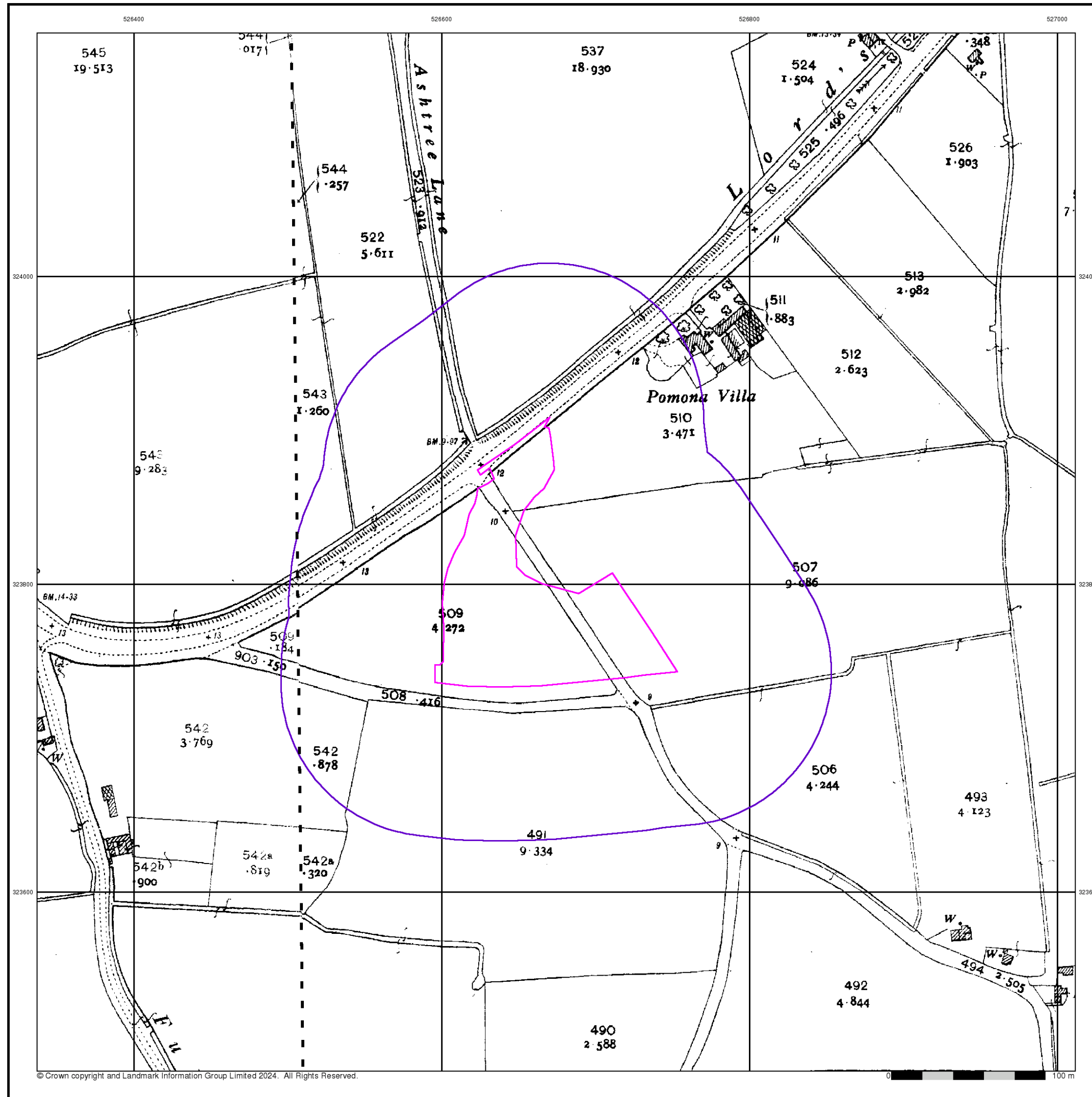


Historical Map - Segment A13



**Order Details**  
Order Number: 353243700\_1\_1  
Customer Ref: CDP/34  
National Grid Reference: 526670, 323800  
Slice: A  
Site Area (Ha): 1.25  
Search Buffer (m): 100

**Site Details**  
Land off Holbeach Road, Spalding, PE12 6JP



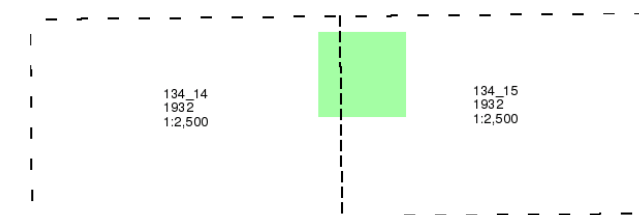
## Lincolnshire

Published 1932

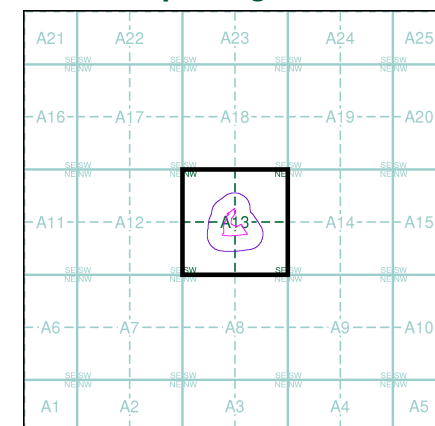
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

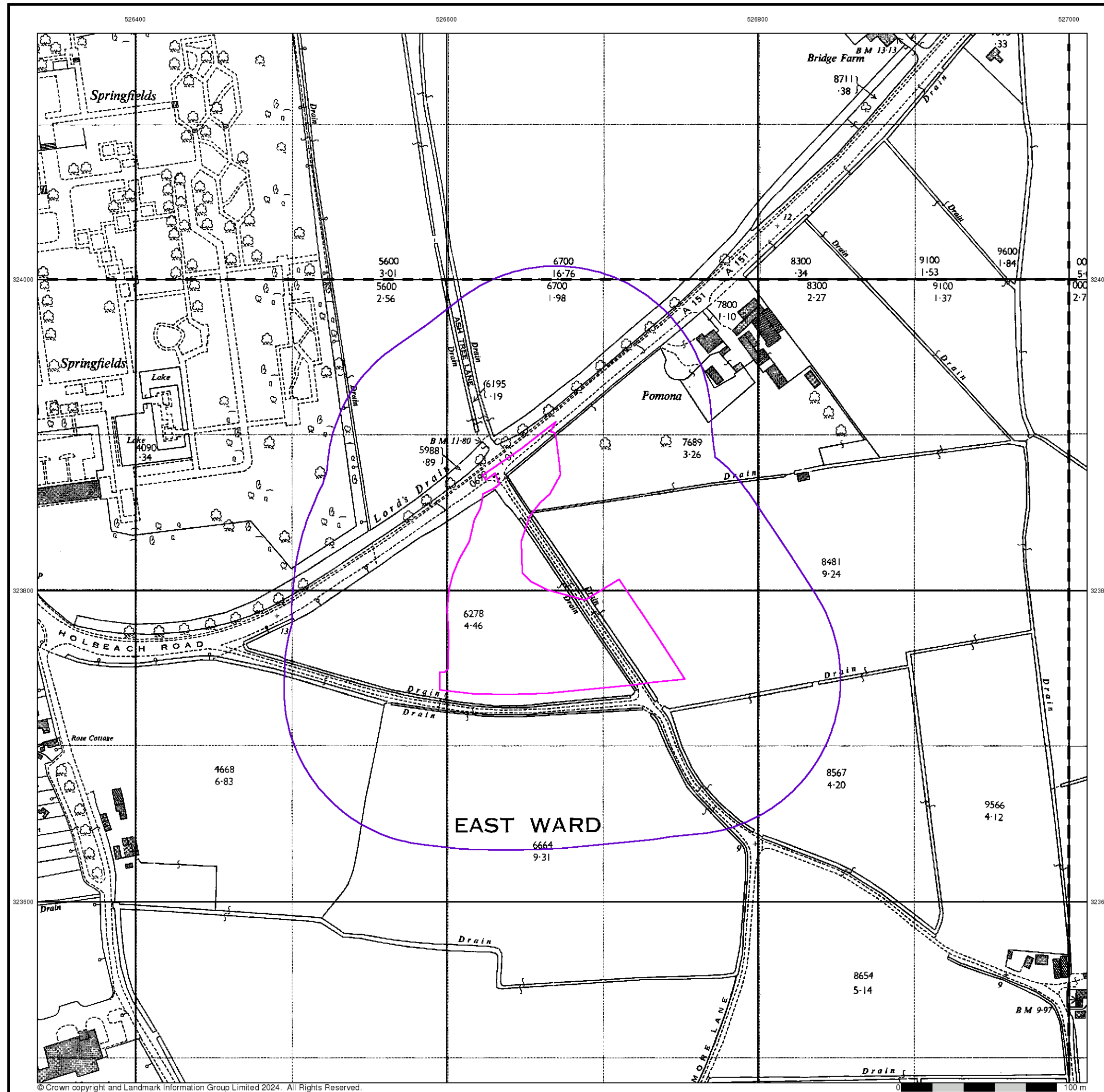


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Slice: A  
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## Ordnance Survey Plan

### Published 1969

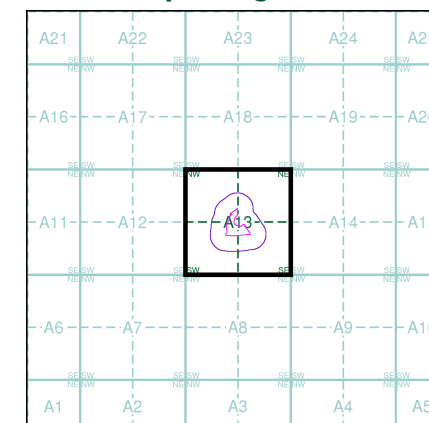
### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

|                           |                           |
|---------------------------|---------------------------|
| TF2624<br>1969<br>1:2,500 | TF2724<br>1969<br>1:2,500 |
| TF2623<br>1969<br>1:2,500 | TF2723<br>1969<br>1:2,500 |

### Historical Map - Segment A13



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National Grid Reference: 526670, 323800  
Slice: A  
Site Area (Ha): 1.25  
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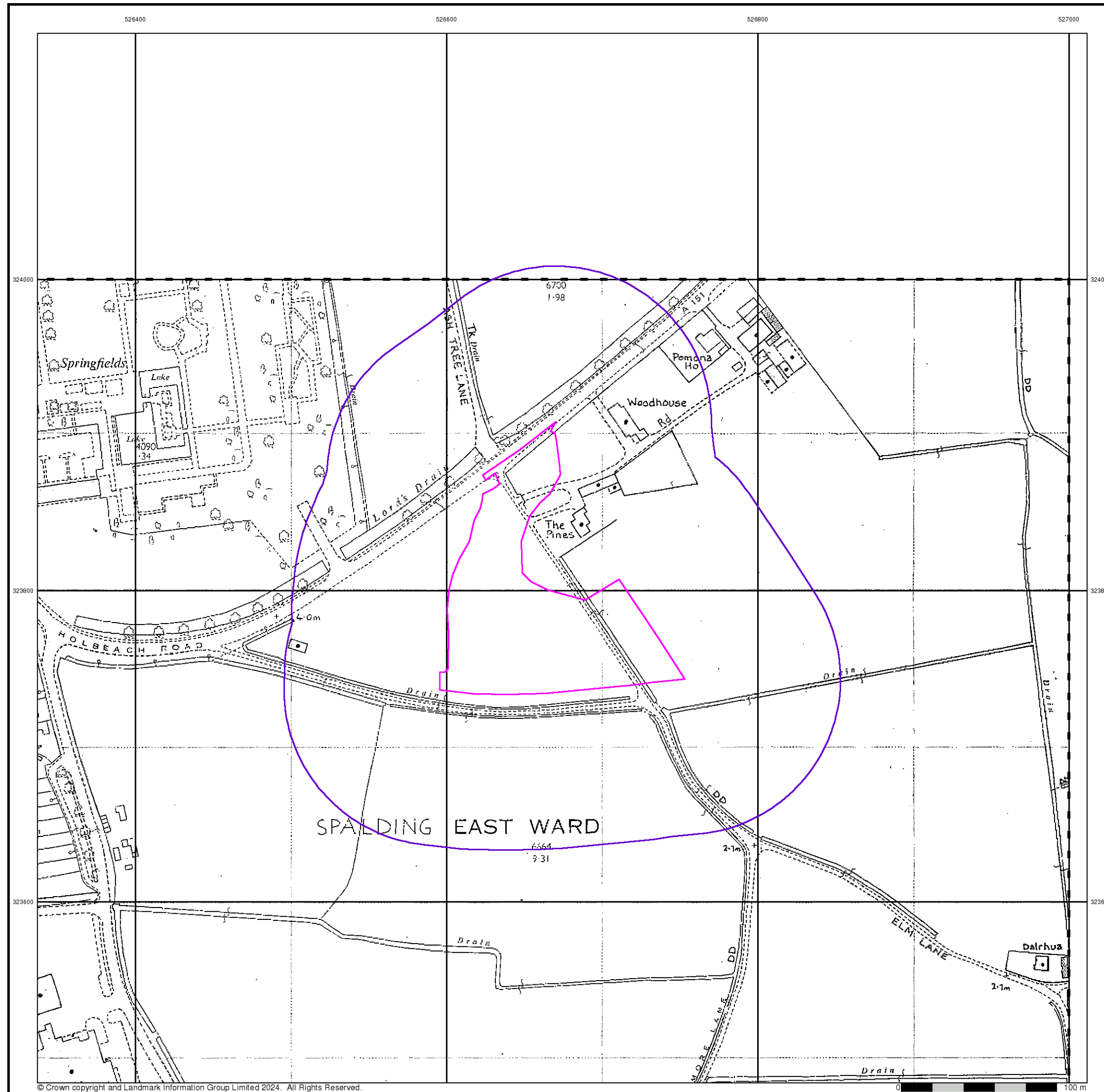
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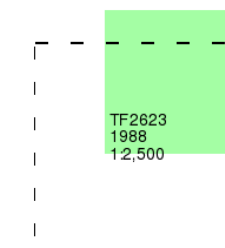
### Additional SIMs

Published 1988

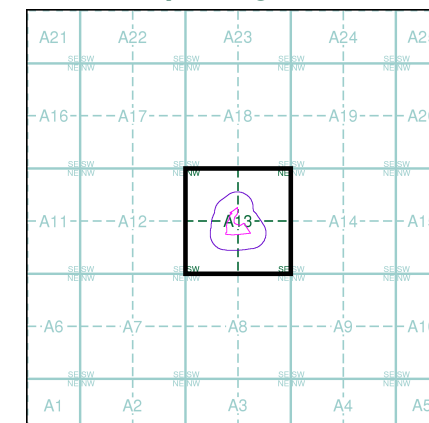
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

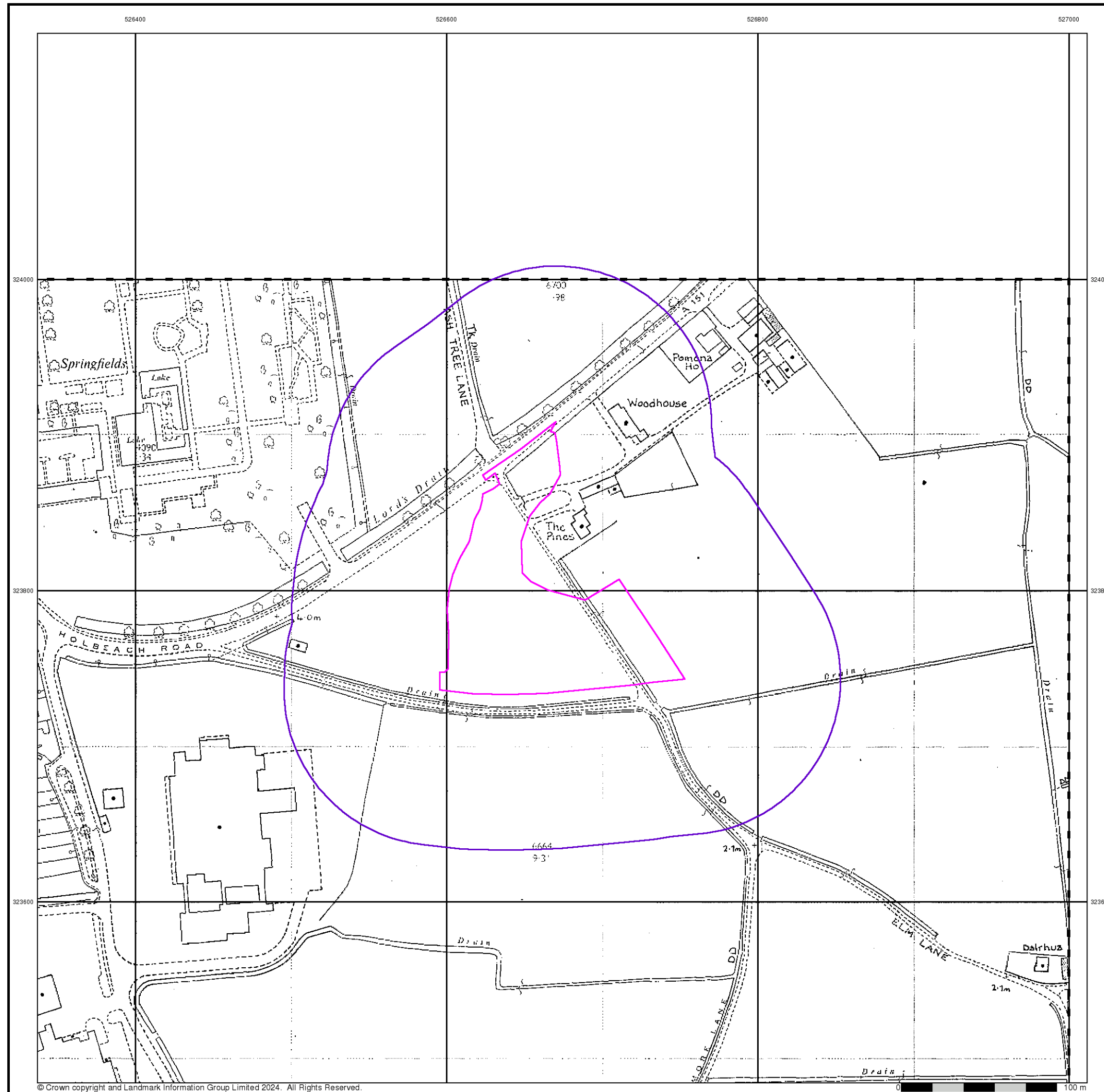


### Order Details

Order Number: 353243700\_1\_1  
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National Grid Reference: 526670, 323800  
Slice: A  
Site Area (Ha): 1.25  
Search Buffer (m): 100

### Site Details

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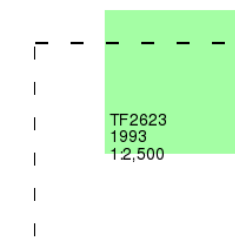
## Additional SIMs

Published 1993

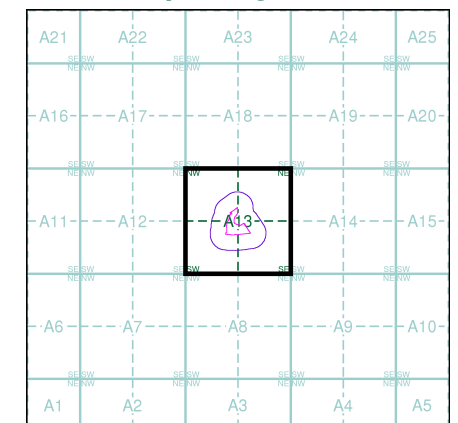
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A13



## Order Details

Order Number: 353243700\_1\_1  
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National Grid Reference: 526670, 323800  
Slice: A  
Site Area (Ha): 1.25  
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## Site Details

Land off Holbeach Road, Spalding, PE12 6JP



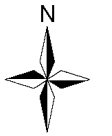
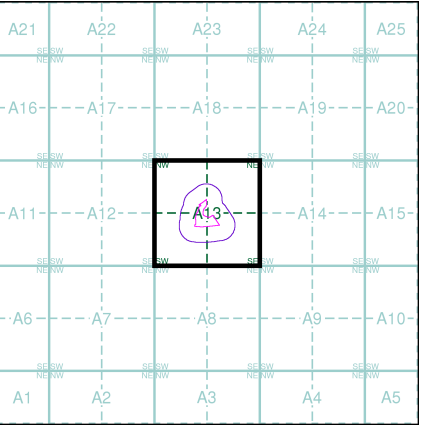
**Large-Scale National Grid Data**  
**Published 1995**  
**Source map scale - 1:2,500**

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**

|                          |                          |
|--------------------------|--------------------------|
| TF2624<br>1995<br>12,500 | TF2724<br>1995<br>12,500 |
| TF2623<br>1995<br>12,500 | TF2723<br>1995<br>12,500 |

**Historical Map - Segment A13**



**Order Details**

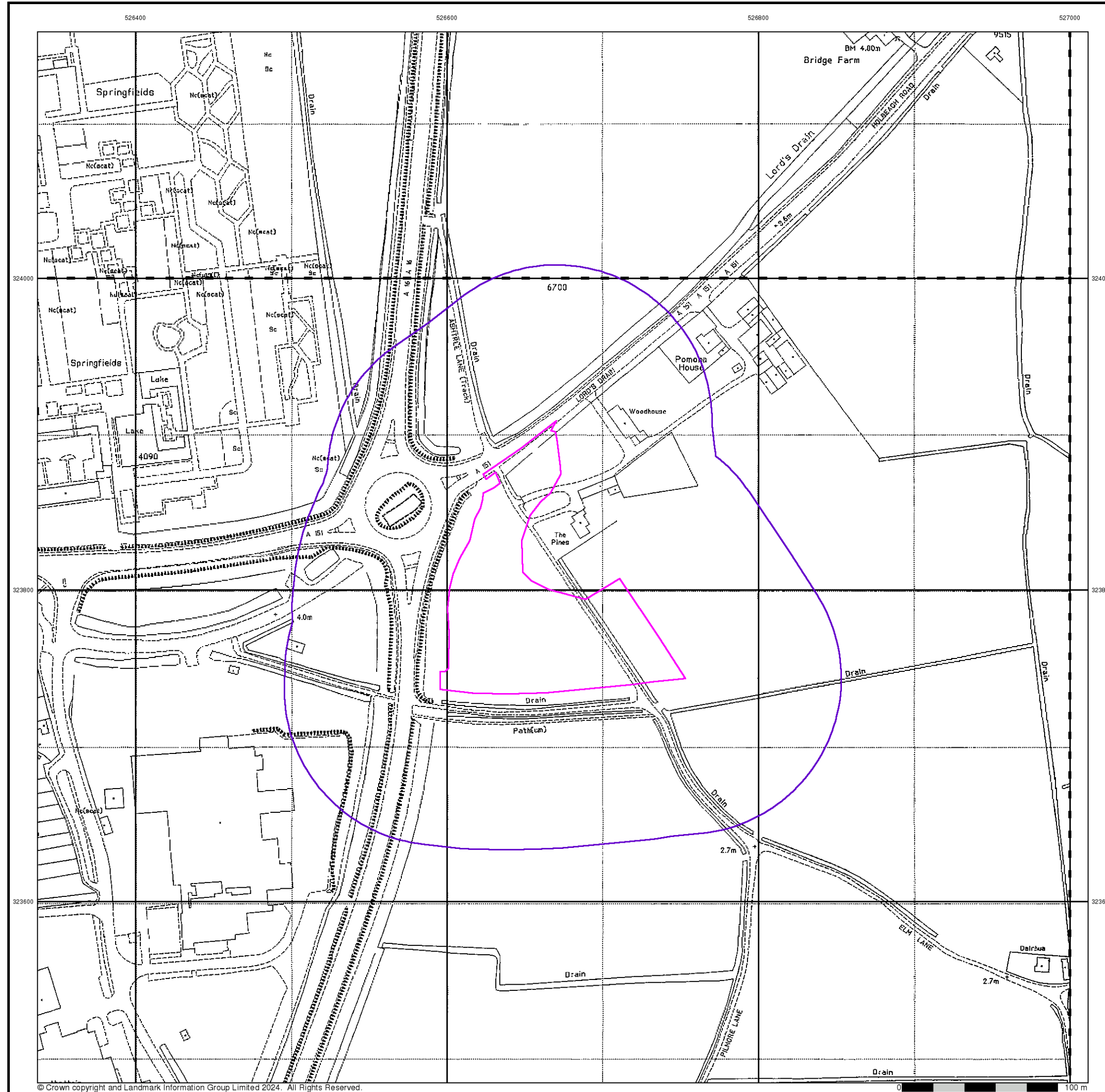
Order Number: 353243700\_1\_1  
Customer Ref: CDP/34  
National Grid Reference: 526670, 323800  
Slice: A  
Site Area (Ha): 1.25  
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**Site Details**

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## Large-Scale National Grid Data

Published 1996

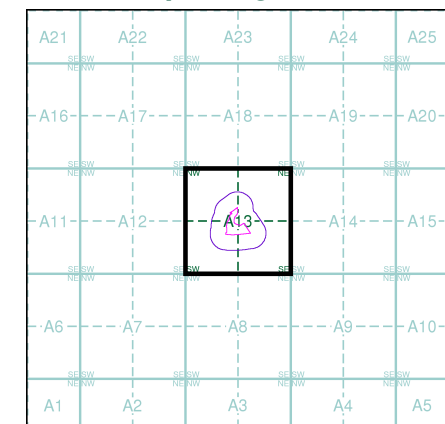
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

|         |  |
|---------|--|
| TF2624  |  |
| 1996    |  |
| 1:2,500 |  |
| TF2623  |  |
| 1996    |  |
| 1:2,500 |  |

### Historical Map - Segment A13



### Order Details

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Site Area (Ha): 1.25  
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# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

|  |                                               |  |                             |  |               |
|--|-----------------------------------------------|--|-----------------------------|--|---------------|
|  | Gravel Pit                                    |  | Sand Pit                    |  | Other Pits    |
|  | Quarry                                        |  | Shingle                     |  | Orchard       |
|  | Osiers                                        |  | Reeds                       |  | Marsh         |
|  | Mixed Wood                                    |  | Deciduous                   |  | Brushwood     |
|  | Fir                                           |  | Furze                       |  | Rough Pasture |
|  | Arrow denotes flow of water                   |  | Trigonometrical Station     |  |               |
|  | Site of Antiquities                           |  | Bench Mark                  |  |               |
|  | Pump, Guide Post, Signal Post                 |  | Well, Spring, Boundary Post |  |               |
|  | •285 Surface Level                            |  |                             |  |               |
|  | Sketched Contour                              |  | Instrumental Contour        |  |               |
|  | Main Roads                                    |  | Minor Roads                 |  |               |
|  | Sunken Road                                   |  | Raised Road                 |  |               |
|  | Road over Railway                             |  | Railway over River          |  |               |
|  | Railway over Road                             |  | Level Crossing              |  |               |
|  | Road over River or Canal                      |  | Road over Stream            |  |               |
|  | Road over Stream                              |  |                             |  |               |
|  | County Boundary (Geographical)                |  |                             |  |               |
|  | County & Civil Parish Boundary                |  |                             |  |               |
|  | Administrative County & Civil Parish Boundary |  |                             |  |               |
|  | County Borough Boundary (England)             |  |                             |  |               |
|  | County Burgh Boundary (Scotland)              |  |                             |  |               |
|  | Rural District Boundary                       |  |                             |  |               |
|  | Civil Parish Boundary                         |  |                             |  |               |

## Ordnance Survey Plan 1:10,000

|  |                                                                       |  |                                                         |
|--|-----------------------------------------------------------------------|--|---------------------------------------------------------|
|  | Chalk Pit, Clay Pit or Quarry                                         |  | Gravel Pit                                              |
|  | Sand Pit                                                              |  | Disused Pit or Quarry                                   |
|  | Refuse or Slag Heap                                                   |  | Lake, Loch or Pond                                      |
|  | Dunes                                                                 |  | Boulders                                                |
|  | Coniferous Trees                                                      |  | Non-Coniferous Trees                                    |
|  | Orchard                                                               |  | Scrub                                                   |
|  | Bracken                                                               |  | Heath                                                   |
|  | Marsh                                                                 |  | Reeds                                                   |
|  | Building                                                              |  | Glasshouse                                              |
|  | Sloping Masonry                                                       |  | Pylon                                                   |
|  | Cutting                                                               |  | Embankment                                              |
|  | Road Under                                                            |  | Road Over                                               |
|  | Level Crossing                                                        |  | Foot Bridge                                             |
|  | Standard Gauge Multiple Track                                         |  | Standard Gauge Single Track                             |
|  | Siding, Tramway or Mineral Line                                       |  | Narrow Gauge                                            |
|  | Geographical County                                                   |  | Administrative County, County Borough or County of City |
|  | Municipal Borough, Urban or Rural District, Burgh or District Council |  | Borough, Burgh or County Constituency                   |
|  | Civil Parish                                                          |  |                                                         |
|  | BP, BS Boundary Post or Stone                                         |  | Police Station                                          |
|  | Church                                                                |  | Post Office                                             |
|  | Club House                                                            |  | Public Convenience                                      |
|  | Fire Engine Station                                                   |  | Public House                                            |
|  | Foot Bridge                                                           |  | Signal Box                                              |
|  | Fountain                                                              |  | Spring                                                  |
|  | Guide Post                                                            |  | Telephone Call Box                                      |
|  | Mile Post                                                             |  | Telephone Call Post                                     |
|  | Mile Stone                                                            |  | Well                                                    |

## 1:10,000 Raster Mapping

|  |                                                          |  |                                            |
|--|----------------------------------------------------------|--|--------------------------------------------|
|  | Gravel Pit                                               |  | Refuse tip or slag heap                    |
|  | Rock                                                     |  | Rock (scattered)                           |
|  | Boulders                                                 |  | Boulders (scattered)                       |
|  | Shingle                                                  |  | Mud                                        |
|  | Sand                                                     |  | Sand Pit                                   |
|  | Slopes                                                   |  | Top of cliff                               |
|  | General detail                                           |  | Underground detail                         |
|  | Overhead detail                                          |  | Narrow gauge railway                       |
|  | Multi-track railway                                      |  | Single track railway                       |
|  | County boundary (England only)                           |  | Civil, parish or community boundary        |
|  | District, Unitary, Metropolitan, London Borough boundary |  | Constituency boundary                      |
|  | Area of wooded vegetation                                |  | Non-coniferous trees                       |
|  | Non-coniferous trees (scattered)                         |  | Coniferous trees                           |
|  | Coniferous trees (scattered)                             |  | Positioned tree                            |
|  | Orchard                                                  |  | Coppice or Osiers                          |
|  | Rough Grassland                                          |  | Heath                                      |
|  | Scrub                                                    |  | Marsh, Salt Marsh or Reeds                 |
|  | Water feature                                            |  | Flow arrows                                |
|  | Mean high water (springs)                                |  | Mean low water (springs)                   |
|  | Telephone line (where shown)                             |  | Electricity transmission line (with poles) |
|  | Bench mark (where shown)                                 |  | Triangulation station                      |
|  | Point feature (e.g. Guide Post or Mile Stone)            |  | Pylon, flare stack or lighting tower       |
|  | Site of (antiquity)                                      |  | Glasshouse                                 |
|  | General Building                                         |  | Important Building                         |

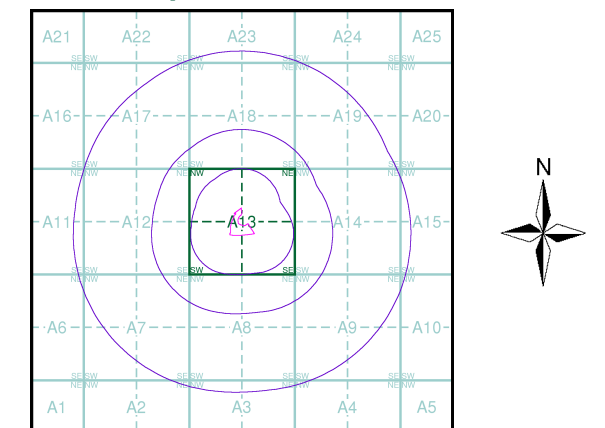


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## Historical Mapping & Photography included:

| Mapping Type         | Scale    | Date        | Pg |
|----------------------|----------|-------------|----|
| Lincolnshire         | 1:10,560 | 1887 - 1888 | 2  |
| Lincolnshire         | 1:10,560 | 1906        | 3  |
| Lincolnshire         | 1:10,560 | 1906        | 4  |
| Lincolnshire         | 1:10,560 | 1932        | 5  |
| Lincolnshire         | 1:10,560 | 1932        | 6  |
| Lincolnshire         | 1:10,560 | 1932        | 7  |
| Lincolnshire         | 1:10,560 | 1938        | 8  |
| Lincolnshire         | 1:10,560 | 1951 - 1952 | 9  |
| Ordnance Survey Plan | 1:10,000 | 1956 - 1958 | 10 |
| Ordnance Survey Plan | 1:10,000 | 1968        | 11 |
| Ordnance Survey Plan | 1:10,000 | 1971 - 1975 | 12 |
| Ordnance Survey Plan | 1:10,000 | 1989        | 13 |
| Ordnance Survey Plan | 1:10,000 | 1990        | 14 |
| 10K Raster Mapping   | 1:10,000 | 2000        | 15 |
| Street View          | Variable |             | 16 |

## Historical Map - Slice A



## Order Details

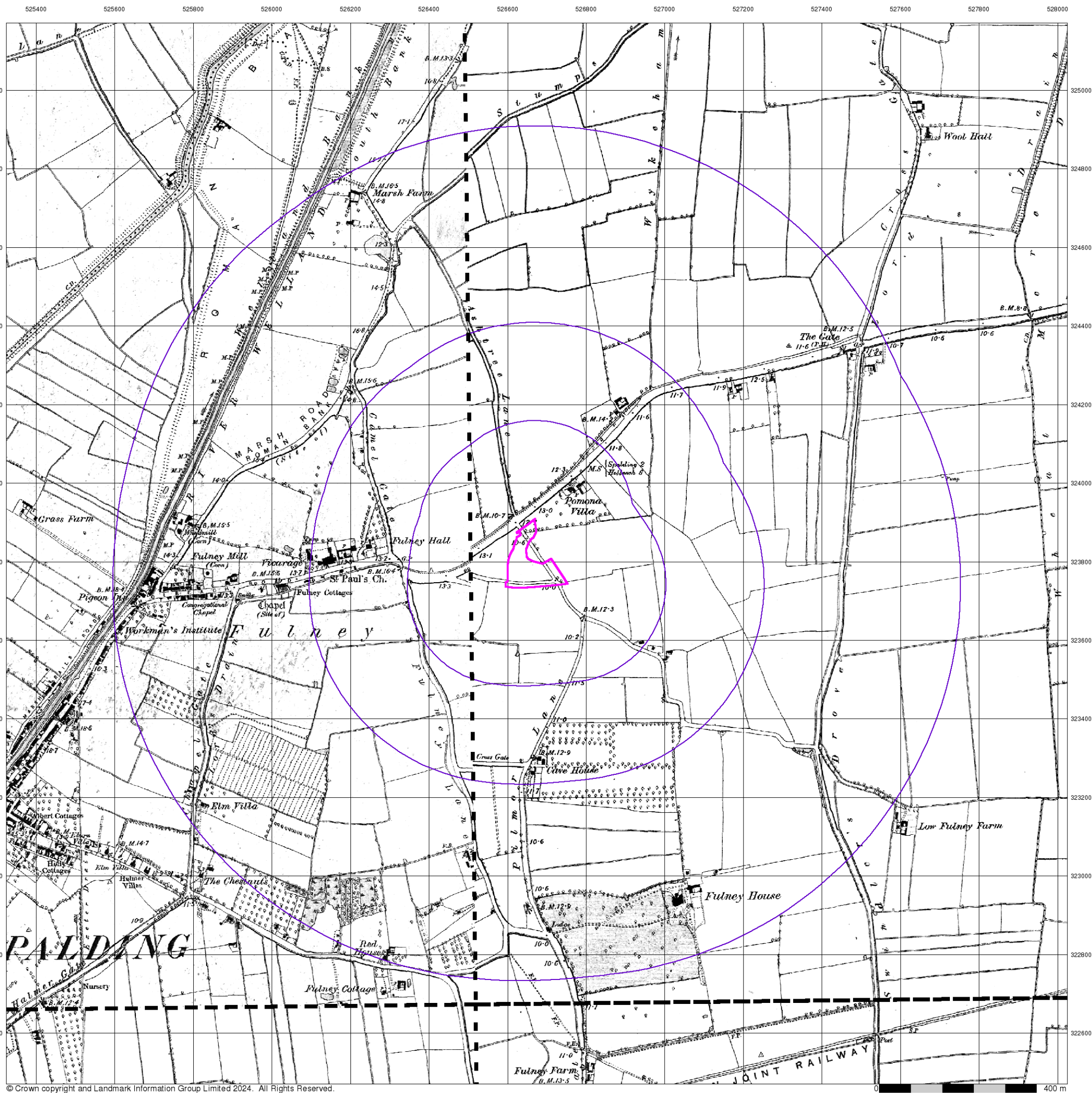
Order Number: 353243700\_1\_1  
Customer Ref: CDP/34  
National Grid Reference: 526670, 323800  
Slice: A  
Site Area (Ha): 1.25  
Search Buffer (m): 1000

## Site Details

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## Lincolnshire

Published 1887 - 1888

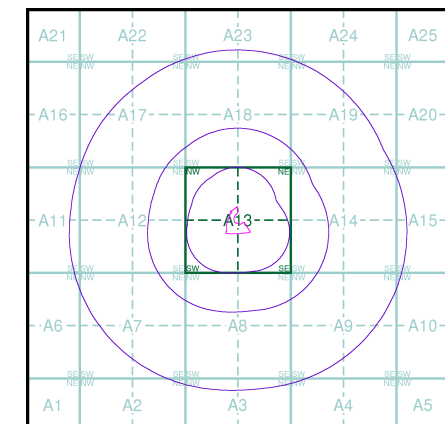
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

|                           |                           |
|---------------------------|---------------------------|
| 134SW<br>1887<br>1:10,560 | 134SE<br>1887<br>1:10,560 |
| 142NW<br>1888<br>1:10,560 | 142NE<br>1887<br>1:10,560 |

### Historical Map - Slice A

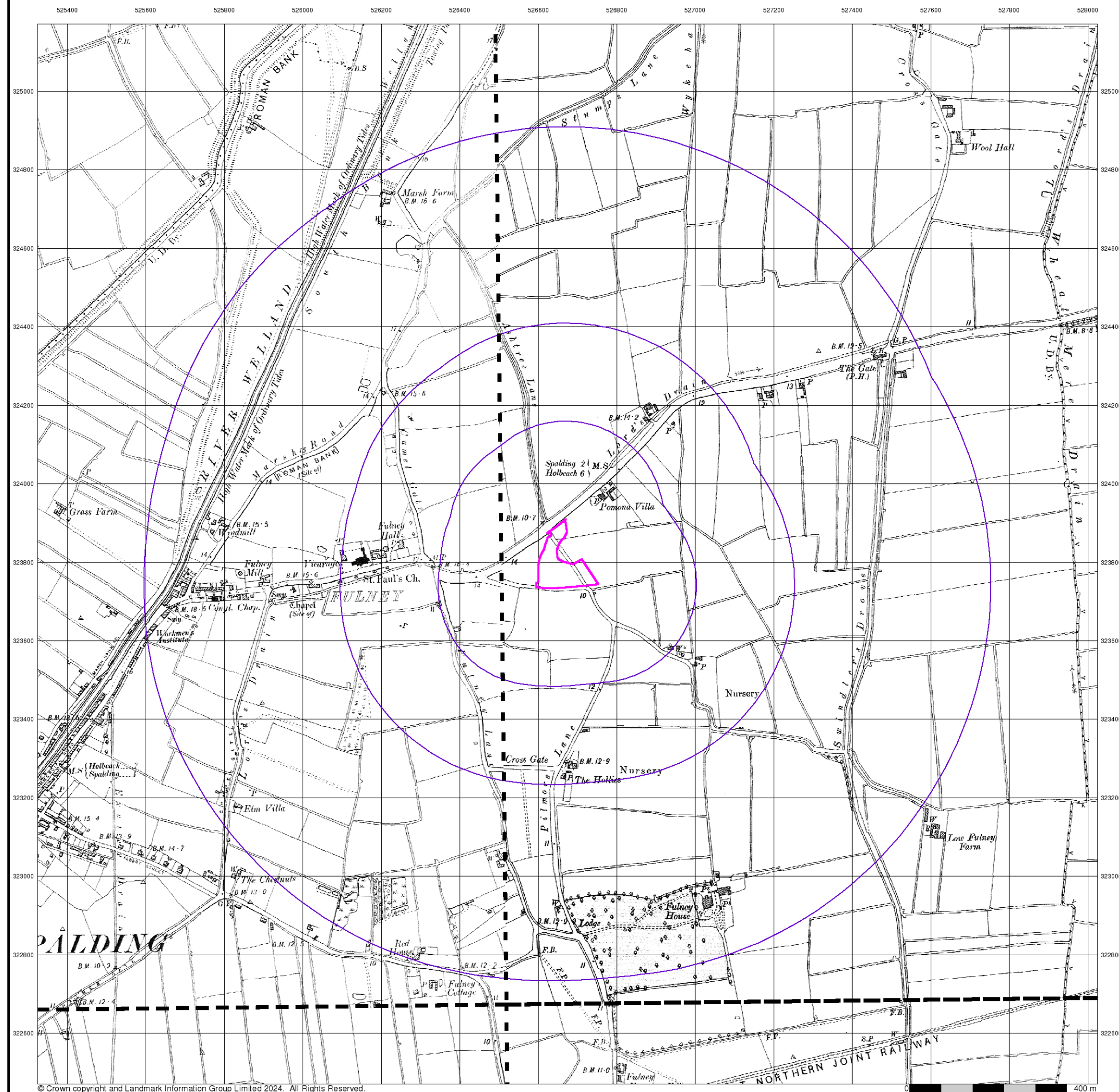


### Order Details

Order Number: 353243700\_1\_1  
Customer Ref: CDP/34  
National Grid Reference: 526670, 323800  
Slice: A  
Site Area (Ha): 1.25  
Search Buffer (m): 1000

### Site Details

Land off Holbeach Road, Spalding, PE12 6JP



## Lincolnshire

**Published 1906**

**Source map scale - 1:10,560**

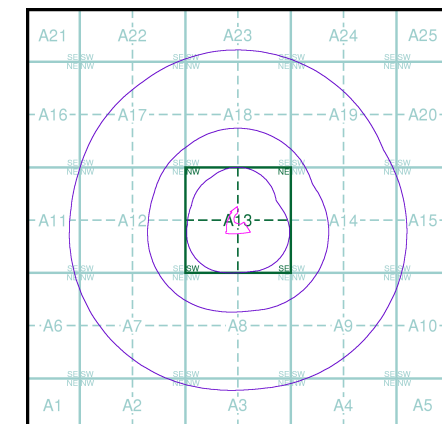
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

## Map Name(s) and Date(s)

Diagram illustrating a four-quadrant survey grid. The central area is labeled 100. The quadrants are labeled as follows:

- Top-Left: 134SW, 1906, 1:10,560
- Top-Right: 134SE, 1906, 1:10,560
- Bottom-Left: 142NW, 1906, 1:10,560
- Bottom-Right: 142NE, 1906, 1:10,560

### Historical Map - Slice A



## Order Details

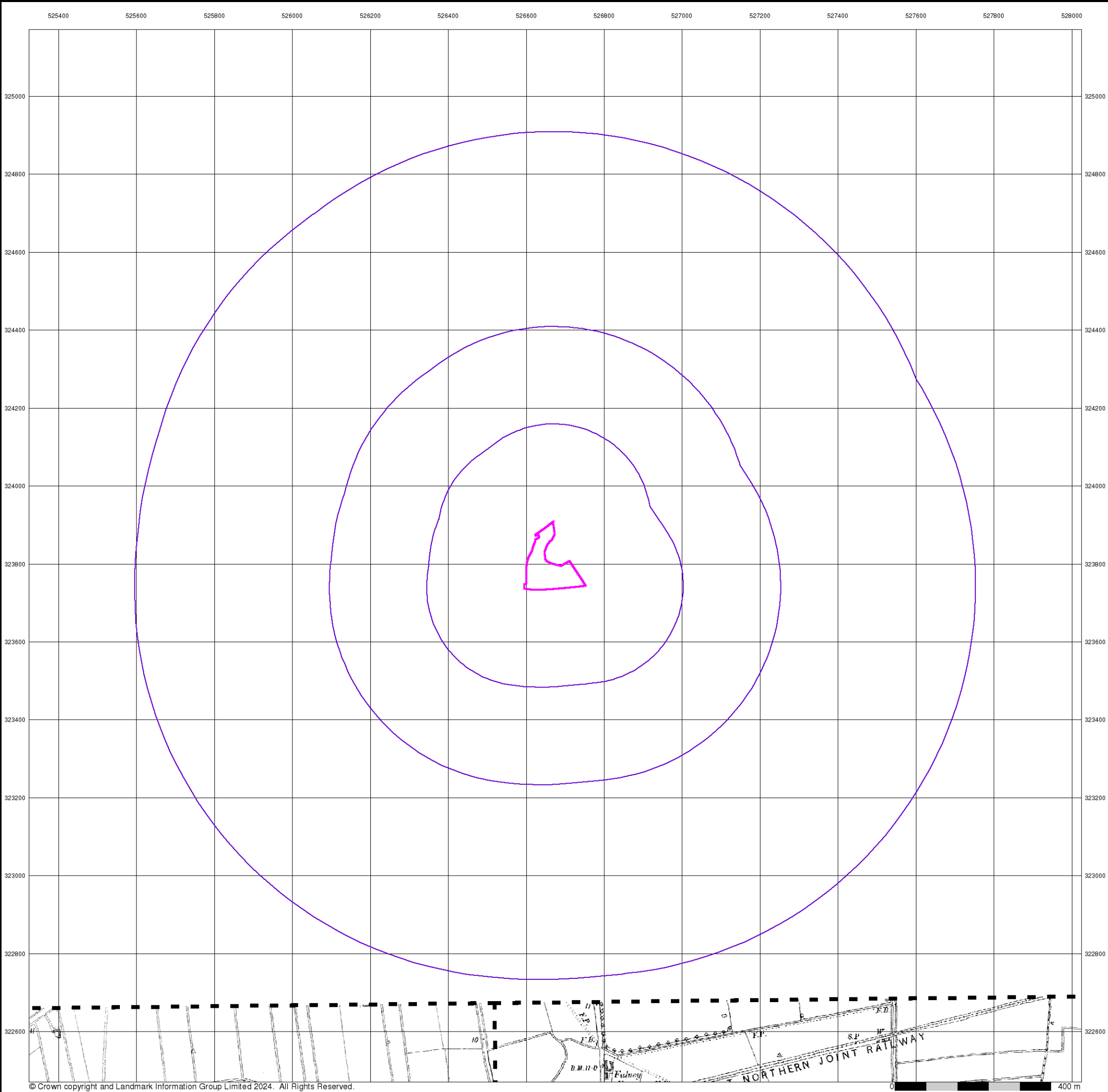
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## Site Details

Land off Holbeach Road, Spalding, PE12 6JP



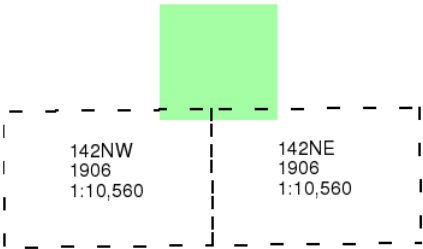
Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



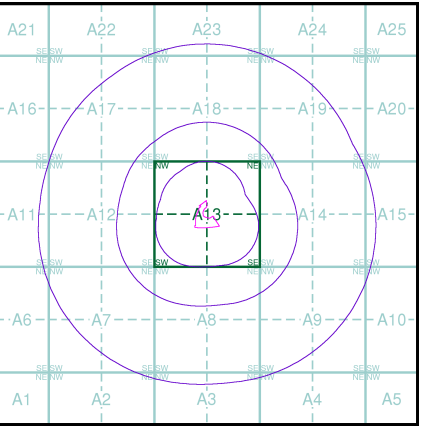
**Lincolnshire**  
**Published 1906**  
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**



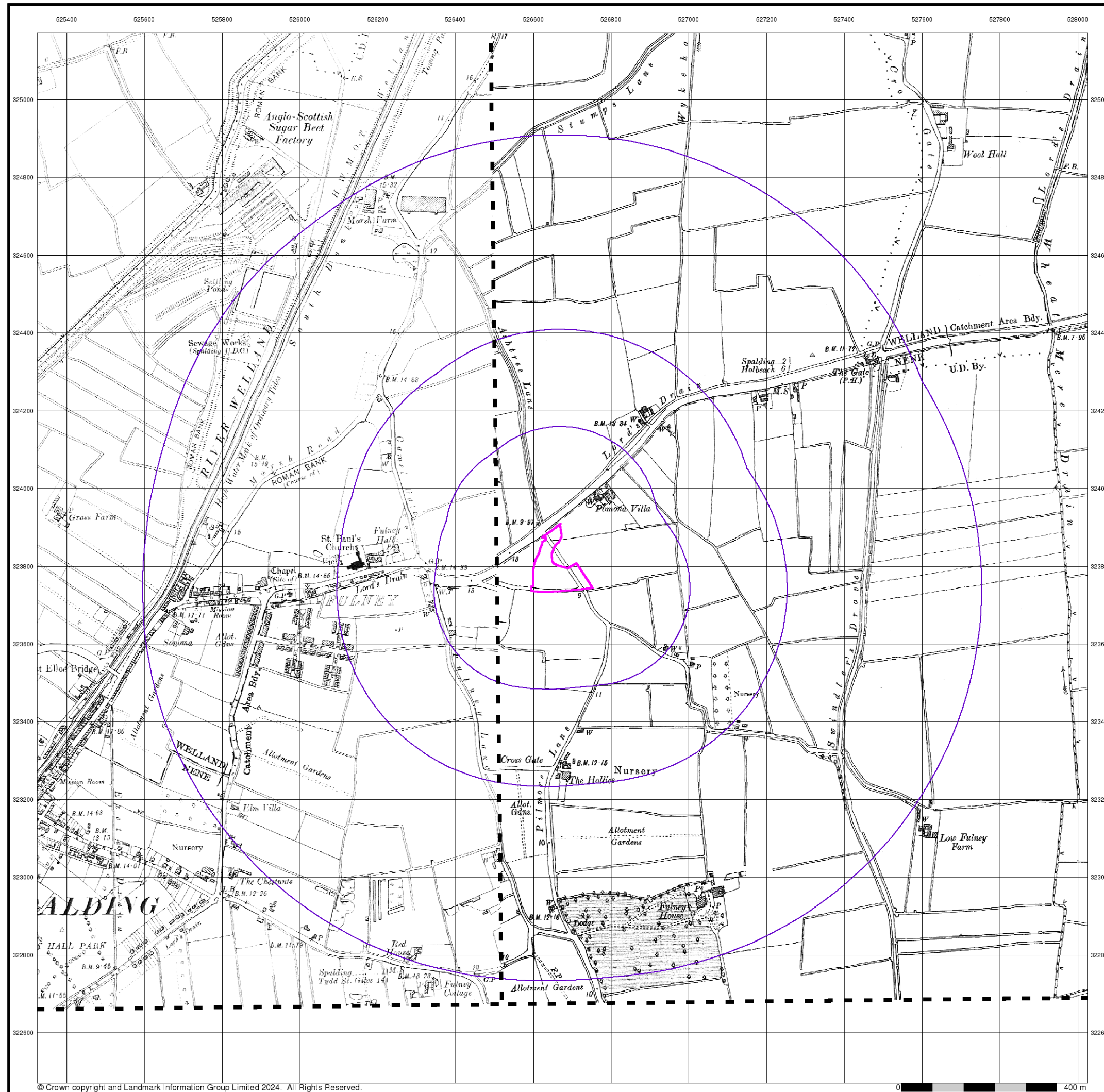
**Historical Map - Slice A**



**Order Details**  
Order Number: 353243700\_1\_1  
Customer Ref: CDP/34  
National Grid Reference: 526670, 323800  
Slice: A  
Site Area (Ha): 1.25  
Search Buffer (m): 1000

**Site Details**  
Land off Holbeach Road, Spalding, PE12 6JP





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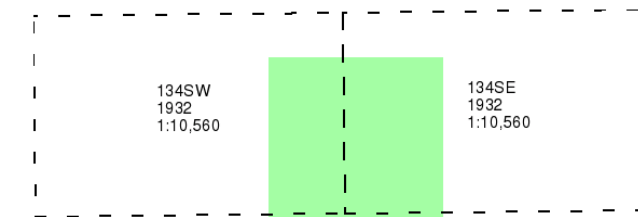
## Lincolnshire

Published 1932

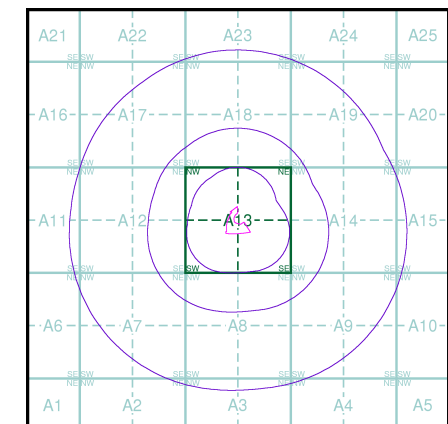
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



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0 400 m



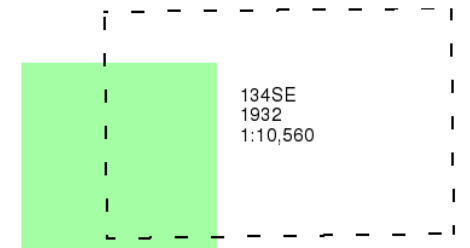
## Lincolnshire

### Published 1932

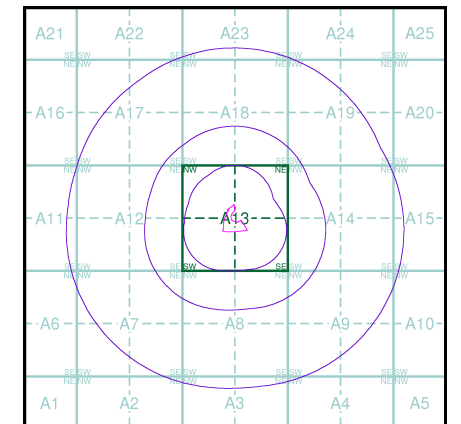
### Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

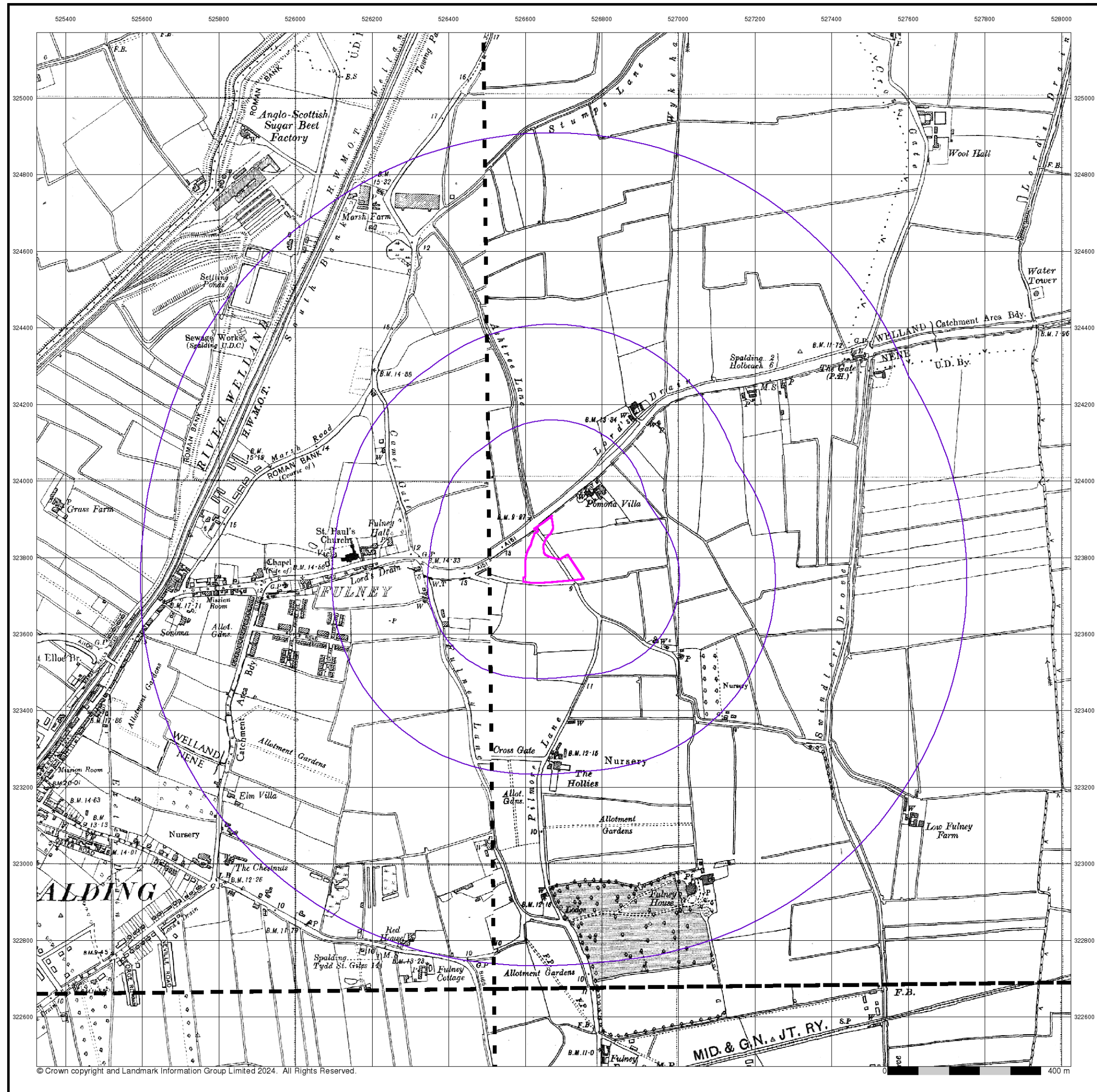
Order Number: 353243700\_1\_1  
Customer Ref: CDP/34  
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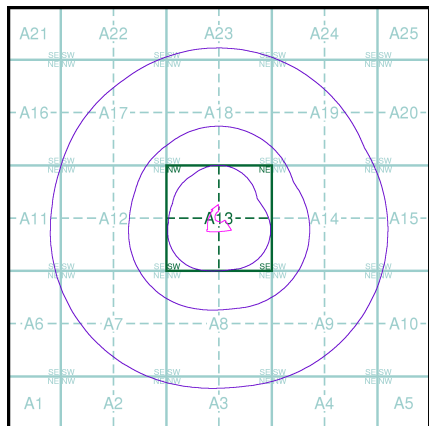
Lincolnshire  
Published 1938  
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

|                           |                           |
|---------------------------|---------------------------|
| 134SW<br>1938<br>1:10,560 | 134SE<br>1938<br>1:10,560 |
| 142NW<br>1938<br>1:10,560 | 142NE<br>1938<br>1:10,560 |

Historical Map - Slice A

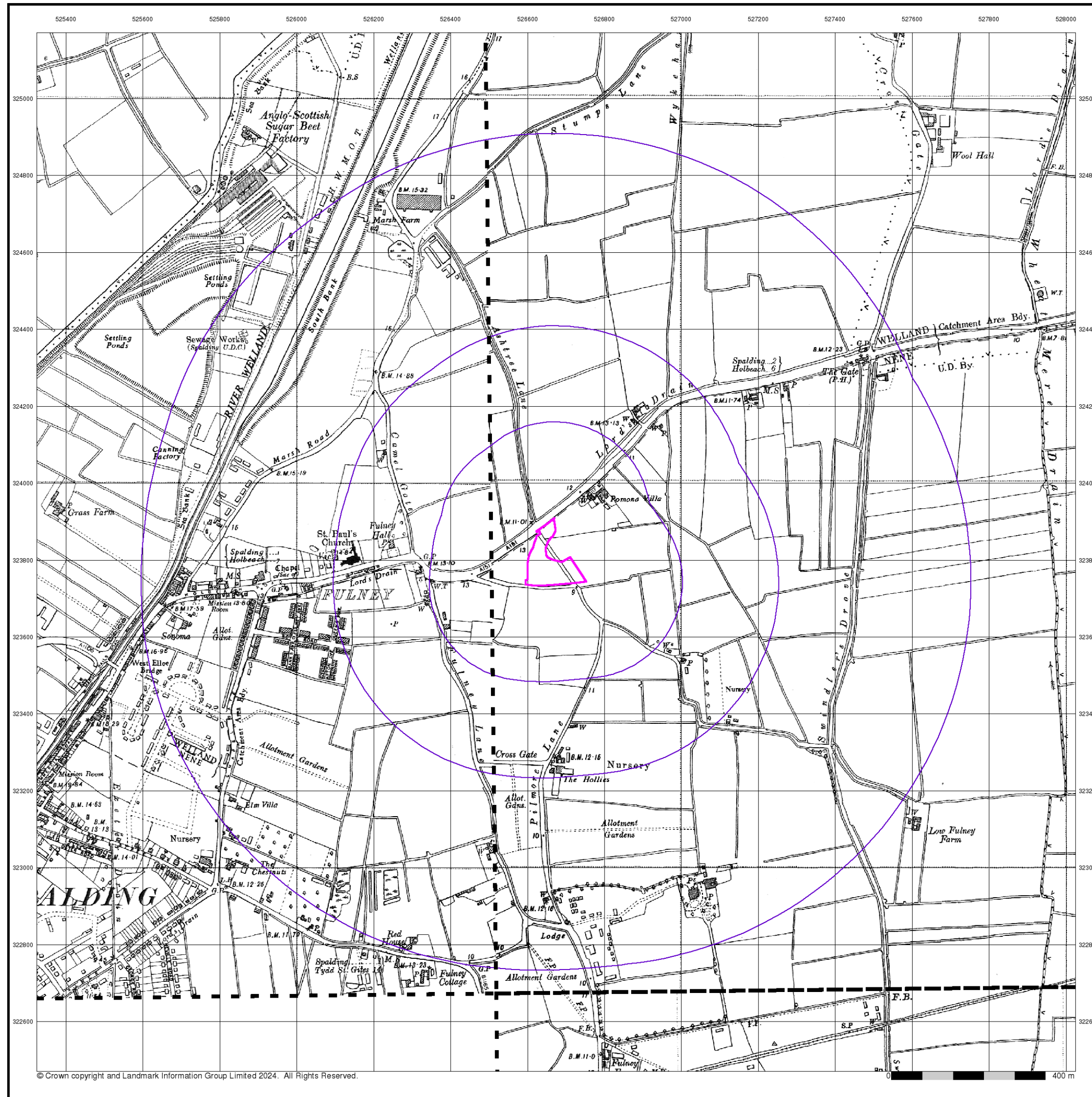


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## Lincolnshire

### Published 1951 - 1952

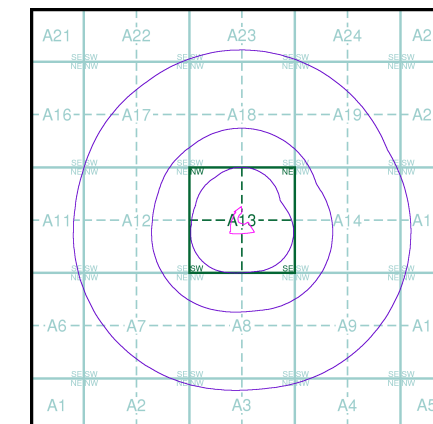
### Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

|                           |                           |
|---------------------------|---------------------------|
| 134SW<br>1951<br>1:10,560 | 134SE<br>1951<br>1:10,560 |
|                           | 142NE<br>1952<br>1:10,560 |

### Historical Map - Slice A

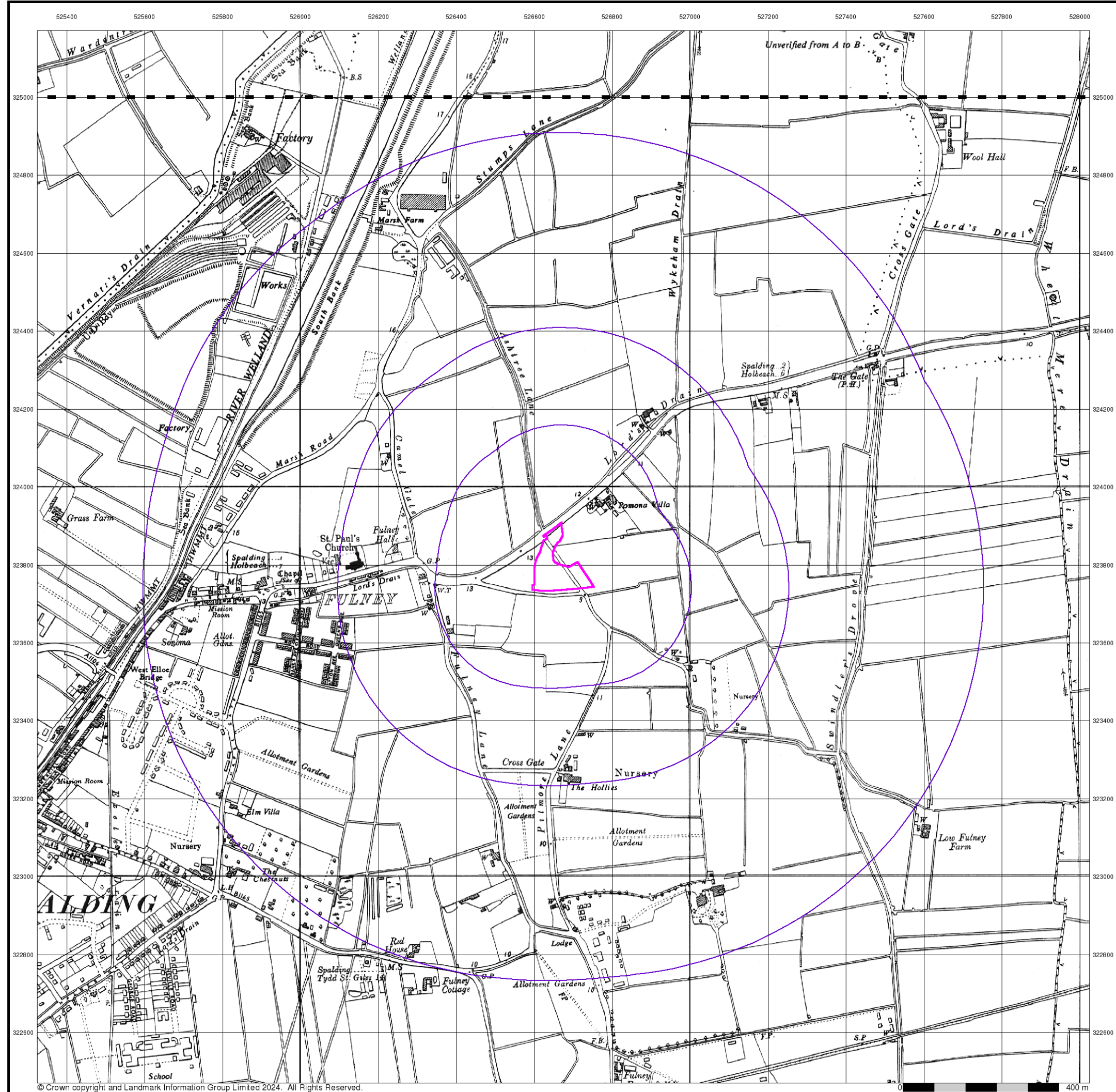


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### Site Details

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## Ordnance Survey Plan

Published 1956 - 1958

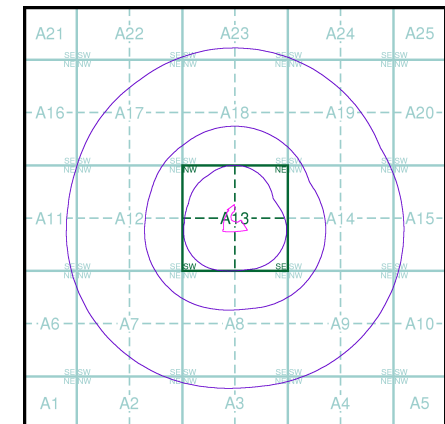
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

|        |      |          |
|--------|------|----------|
| TF22NE | 1956 | 1:10,560 |
| TF22SE | 1958 | 1:10,560 |

### Historical Map - Slice A



### Order Details

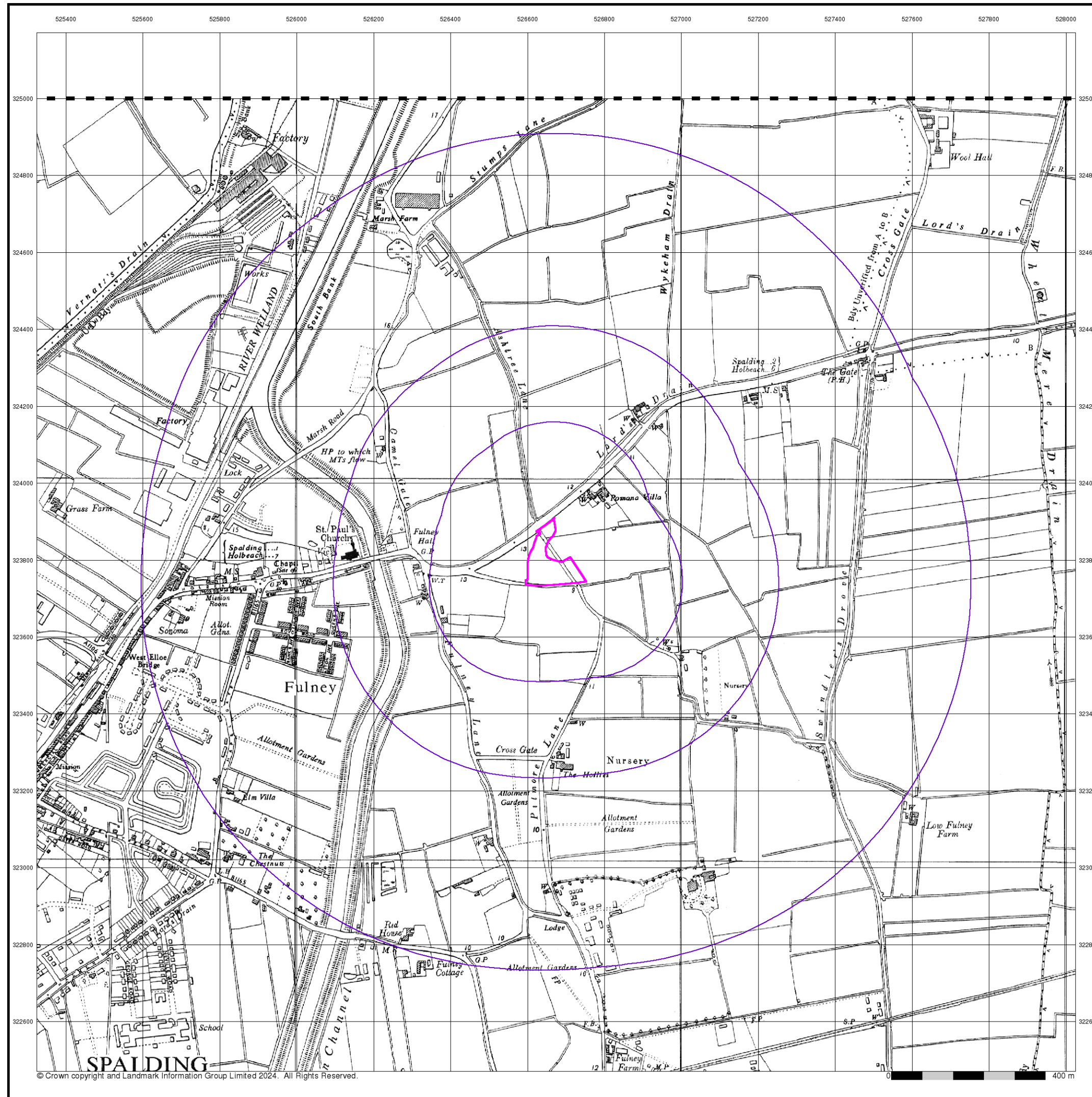
Order Number: 353243700\_1\_1  
Customer Ref: CDP/34  
National Grid Reference: 526670, 323800  
Slice: A  
Site Area (Ha): 1.25  
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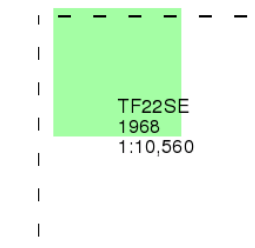
## Ordnance Survey Plan

### Published 1968

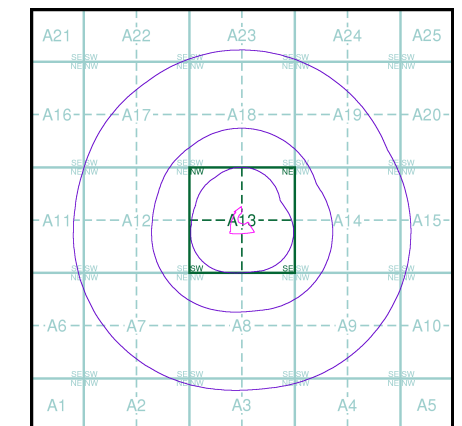
### Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A

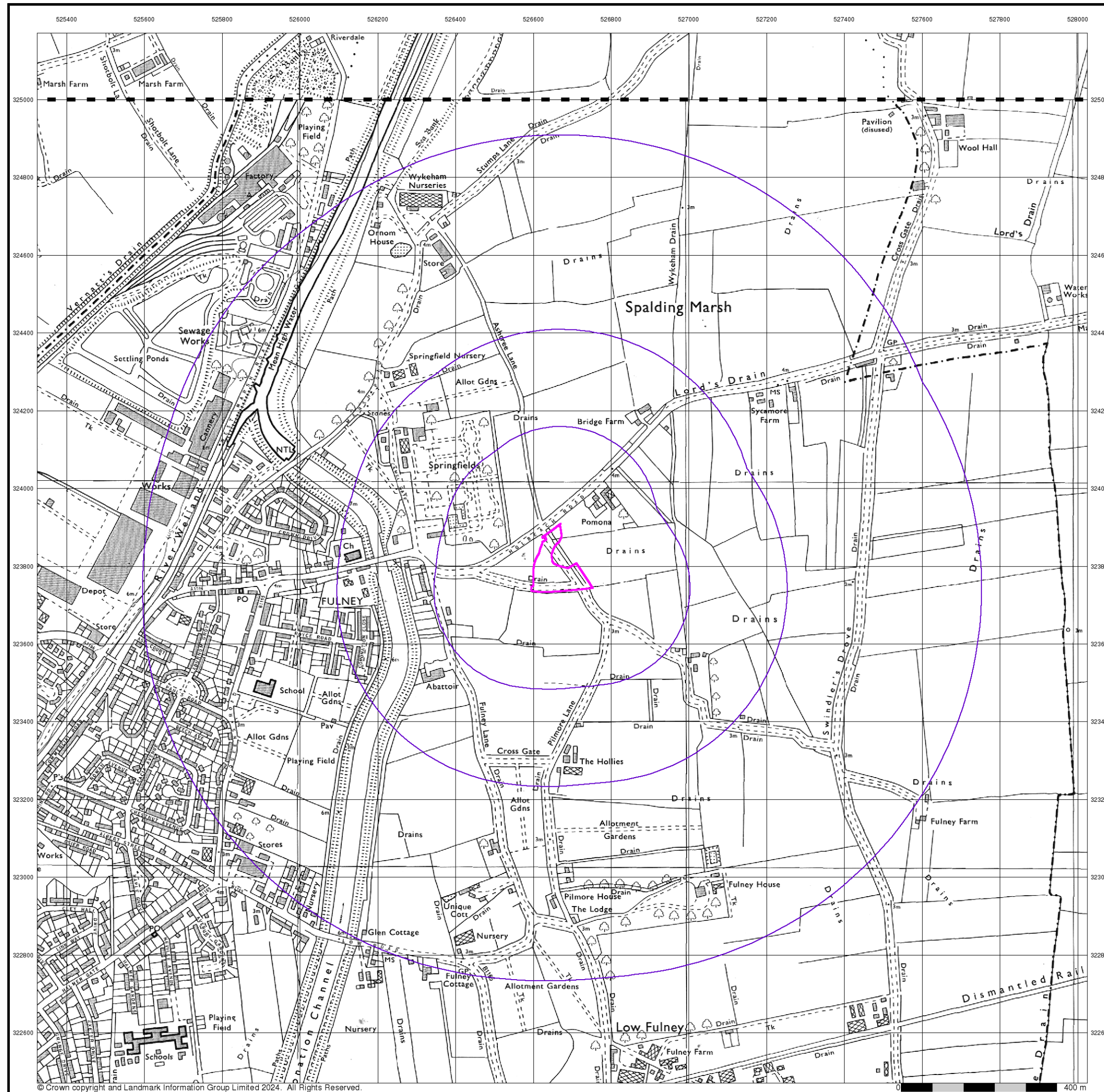


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Slice: A  
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Search Buffer (m): 1000

### Site Details

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## Ordnance Survey Plan

Published 1971 - 1975

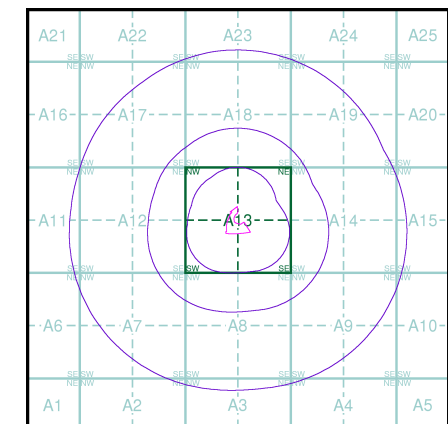
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

|        |      |          |
|--------|------|----------|
| TF22NE | 1975 | 1:10,000 |
| TF22SE | 1971 | 1:10,000 |

### Historical Map - Slice A



### Order Details

Order Number: 353243700\_1\_1  
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