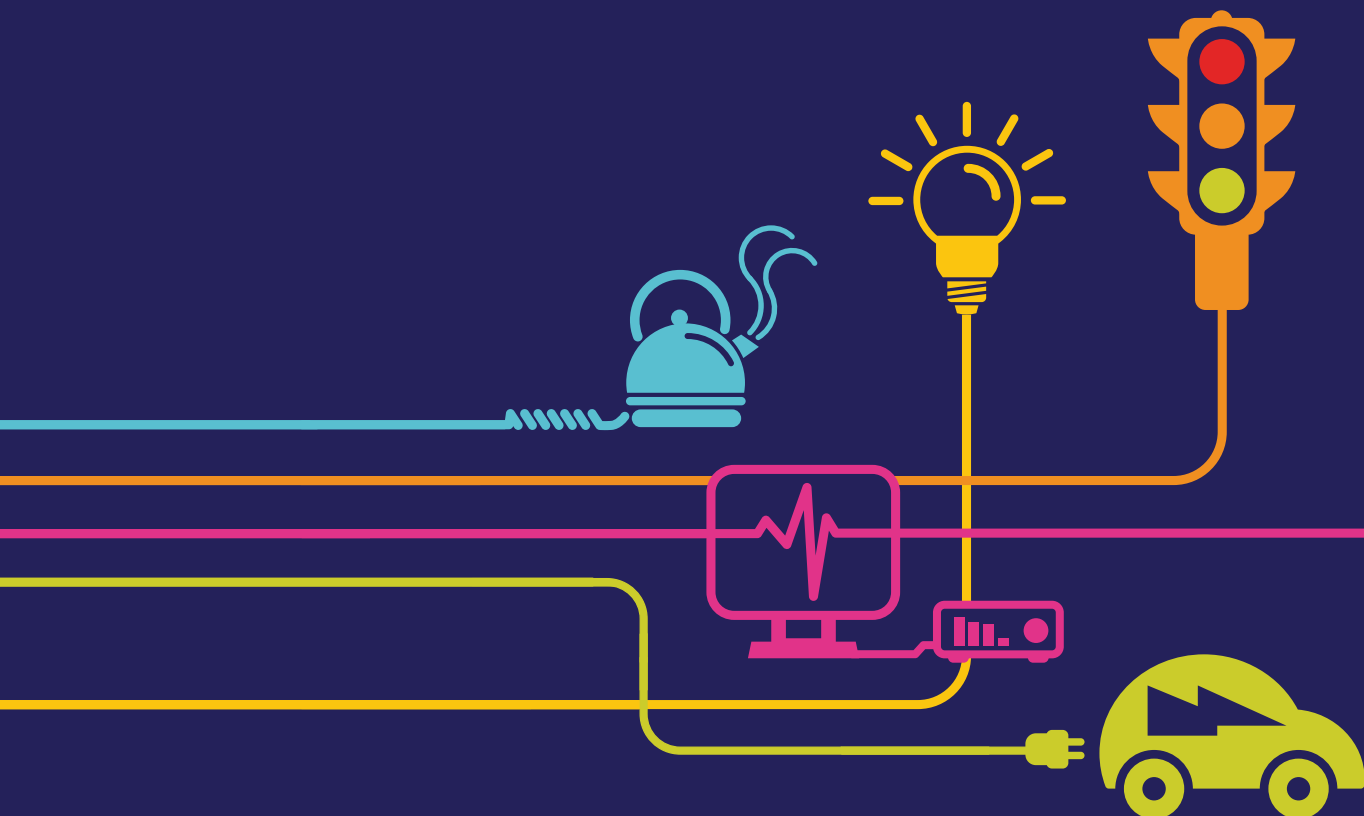


# Environmental Statement Ground Environment Appendix 9E Part 1

Hinkley Point C Connection Project

*Regulation 5(2)(a) of the Infrastructure Planning  
(Applications: Prescribed Forms and Procedure)  
Regulations 2009*



# Environmental Statement

## Hinkley Point C Connection Project

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9K	Factual Report on Ground Investigation on New Electricity Substation at Sandford, Somerset

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## Appendix 9E – Preliminary Risk Assessment - Section E





National Grid

# Hinkley Point C to Seabank Grid Connection Project

Preliminary Risk Assessment – Section E Tickenham Ridge

312318 – R5 (02)

MARCH 2014





## RSK GENERAL NOTES

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**Project No.:** 312318 – R5 (02)

**Title:** Hinkley Point C to Seabank Grid Connection Project, Section E Tickenham Ridge, Preliminary Risk Assessment

**Client:** National Grid

**Date:** March 2014

**Office:** The Old School, Stillhouse Lane, Bedminster, Bristol, BS49 4AH

**Status:** Final

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**Date:** March 2014

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Signature

**Date:** March 2014

**Project manager** A Przewieslik

Signature

**Date:** March 2014

**Quality reviewer** T Morton

Signature

**Date:** March 2014

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

This work has been undertaken in accordance with the quality management system of RSK Environment Ltd.

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# EXECUTIVE SUMMARY

<b>Site description and Proposed Development</b>	<p>The Proposed Development within Section E Tickenham Ridge is to comprise:</p> <ul style="list-style-type: none"> <li>• Construction of a 400kV overhead line;</li> <li>• The removal of F Route and W Route 132kV overhead lines; and</li> <li>• Construction of 132kV underground cables.</li> </ul> <p>Section E Tickenham Ridge comprises the areas between the southern edge of the ridge at Stone-edge Batch, marked by Clevedon Road (B3130) and the M5 motorway at the northern extent, in the Gordano valley.</p> <p>The ridge trends west to east with the topography rising steeply up from Stone-edge Batch to circa 130m above Ordnance Datum (AOD), forming a narrow plateau along the centre line of the ridge before falling steeply down to the north and the low-lying areas of the Gordano valley.</p> <p>Land use on the ridge predominately comprises wooded areas, particularly where the relief is steep, or open agricultural fields used for arable farming and grazing. Residential properties are also located on the ridge including Stone-edge on Batch, West Hill, Wraxall (Upper), properties along Cadbury Camp Lane, Clapton in Gordano and Portbury.</p> <p>The M5 motorway follows the northern edge of the ridge and trends west to east.</p> <p>There are no significant surface water courses on the ridge, the closest is Land Yeo located south of the ridge at Stone-edge Batch.</p>
<b>Purpose of assessment</b>	<p>In accordance with the information provided at tender stage, this assessment was undertaken to provide an initial assessment of potential contamination on site and determine potentially complete pollutant linkages, if present. The report can be used as a technical baseline in support of a preliminary environmental impact (PEI) report and subsequent environmental statement (ES).</p>
<b>PRELIMINARY RISK ASSESSMENT</b>	
<b>Site walkover</b>	<p>A site walkover inspection was undertaken by RSK on 5 June 2013.</p> <p>The alignment of both the F and W routes trend approximately north/north-east to south over the ridge.</p> <p>The proposed 400kV OHL and 132kV underground cable route should roughly follow the current alignment of the F/W route, over the ridge.</p> <p>The area around south of the Tickenham Ridge comprises the Tickenham Moors. The ridge rises steeply along its southern face and comprises wooded areas and residential properties. A flat lying plateau is situated along the centre line of the ridge. Land use here predominantly consists of agricultural land use and wooded areas. Residential properties and isolated farmsteads are located on the flat lying area. The ridge then falling steeply to the north and the Gordano valley beyond. This area consists of wooded land and arable fields. The M5 motorway has been cut into the northern side of the ridge.</p> <p>No significant current sources of potential contamination were noted in close proximity to the development corridor. A garage/MOT centre and ironmonger are located at Stone-edge Batch.</p>

	Several former quarries and associated lime kilns and areas of historic interest were noted on the Tickenham Ridge.
<b>History of site and surrounding area</b>	<p>The area within Section E Tickenham Ridge has historically comprised a rural agricultural setting. Numerous small quarries, lime kilns and pits are located on the ridge. Several sites of historic interest are also located on the central flat plateau.</p> <p>The northern side of the ridge at Clapton in Gordano has been subject to historic below ground coal mining.</p>
<b>Geology, hydrogeology and hydrology</b>	<p>Superficial deposits are generally absent from the ridge. The exception is a small area of Head Deposits comprising clay, silt, sand and gravel at a gorge at Bullock's Bottom, on the north-eastern side of the ridge. These deposits extend to Portbury.</p> <p>Alluvium is located at the base of the southern side of the ridge, associated with the Land Yeo.</p> <p>Bedrock on the ridge predominantly comprises the Carboniferous Limestone Series including limestone, dolomite and interbedded mudstones. The Carboniferous age Upper Coal Measures are represented by the Pennant Series sandstone close to Clapton in Gordano.</p> <p>The Mercia Mudstone Group (MMG) is found at the southern and northern-most extents of the ridge.</p> <p>Geological faulting is common because the ridge forms part of a regional syncline and includes the Naish House Fault.</p> <p>The limestone is generally designated a principal or secondary A aquifer. The sandstones are designated secondary A aquifers and the MMG is a secondary B aquifer.</p>
<b>Potentially contaminative uses on site and in surrounding area</b>	<p>No significant historic sources of potential contamination have been identified within Section E.</p> <p>Numerous historic quarries and lime kilns are located on the ridge.</p> <p>Small commercial activities include a garage/MOT centre and ironmonger.</p>
<b>Conceptual model</b>	No potentially complete relevant pollutant linkages have been identified with a risk of moderate or greater.
<b>CONCLUSIONS AND RECOMMENDATIONS</b>	
<b>Environmental assessment</b>	<p>Potential risks to both controlled waters and human health from the Proposed Development are considered to be low.</p> <p>There is potential requirement to undertake ecological surveys owing to the rural setting of the site.</p> <p>There is the potential requirement to undertake flood risk assessment.</p> <p>There is the requirement to undertake a hydrological risk assessment.</p> <p>Suitable mitigation measures should be implemented to prevent ingress of surface water runoff or sediment arising through construction activity to the surface water drains and rhynes. Construction activities should additionally take other ecological constraints/considerations into account and implement appropriate mitigation measures for the protection of ecological receptors. An emergency response plan might be required to document procedures should an</p>

	<p>incident occur.</p> <p>It is also recommended that during any geotechnical investigations consideration be given to undertaking contamination testing, sampling, monitoring to confirm the low to moderate risk rating.</p> <p>Before any site operations are carried out the site should be inspected by an individual experienced in the recognition of Japanese Knotweed. If Japanese Knotweed is found to be present, adequate precautions must be employed to prevent its spread, in particular along water courses during construction and demolition activities.</p>
<p><b>Geotechnical assessment</b></p>	<p>Geotechnical desk studies of site ground conditions were undertaken by LSTC during November 2012 and by Card Geotechnics during January 2010. The geotechnical desk study reports should be read for further site-specific information.</p> <p>A geotechnical assessment of ground conditions was not undertaken as part of the RSK's scope of work.</p> <p>There may be the requirement for intrusive ground works to collect appropriate data to support foundation and concrete design for towers and other structures located along the development route this should include an appropriate assessment to confirm ground stability issues associated with compressible ground hazards owing to the likely presence of soft strata in certain locations.</p> <p>The overall risk from coal mining activity to the development corridor is considered to be low. However, it is considered likely that the Coal Mining Authority will require as a minimum, a screen of available historic mining data for the area to confirm the low risk designation. A full coal mining risk assessment is unlikely to be required.</p> <p>If there are drainage ditches that are culverted to allow access tracks to cross these surface water features, an assessment of their condition is recommended prior to vehicle movement over them.</p>
<p><i><b>The information given in this summary is necessarily incomplete and is provided for initial briefing purposes only. The summary must not be used as a substitute for the full text of the report.</b></i></p>	

# 1 INTRODUCTION

---

RSK Environment Limited (RSK) was commissioned by TEP Limited (TEP), on behalf of National Grid (NG), to produce a preliminary risk assessment (PRA) relating to the ground environment. This is in support of a preliminary environmental impact report (PEIR) and subsequent environmental statement (ES) relating to the Proposed Development of a grid connection between Hinkley Point C and Seabank substation.

The Proposed Development is to comprise the removal of an existing 132kV overhead line (OHL) defined as the F route, between Bridgwater substation and Avonmouth substation, and the construction of a new 400kV connection, of approximately 54.4km length, between the proposed Hinkley Point C nuclear power facility and the existing Seabank substation, using both OHL and underground cables. The Proposed Development includes modifications to existing OHL infrastructure and the construction of new substations / compounds and ancillary work, as detailed within Section 1.1.

This report is subject to the RSK service constraints given in Appendix A.

## 1.1 Background

On 16 April 2013, the Secretary of State (SoS) received a scoping report submitted by NG (the Applicant) under Regulation 8 of the Infrastructure Planning (Environmental Impact Assessment) Regulations 2009 (SI2263) (as amended) (the EIA Regulations) in order to request a scoping opinion for the Proposed Development. The applicant notified the SoS under Regulation 6(1)(b) of the EIA Regulations that it proposes to provide an ES in respect of the Proposed Development. In accordance with Regulation 4(2)(a) of the EIA Regulations, the Proposed Development is determined to be EIA development.

The components of the development are summarised within Table 1.

**Table 1: Proposed Development components**

Proposed Development Component	Section(s)
<p><b>400kV Overhead Line</b></p> <p>Construction of a new 400kV overhead line of approximately 4.5km from the existing Hinkley to Bridgwater 275kV overhead line on Horsey Level (which would be uprated to 400kV operation) to the existing Hinkley to Melksham 400kV overhead line north of Woolavington.</p> <p>Construction of a new 400kV overhead line of approximately 12.75km from the existing Hinkley to Melksham 400kV overhead line north of Woolavington to a proposed CSE compound south of the Mendip Hills and the River Axe.</p>	A and B
<p><b>400kV Overhead Line</b></p> <p>Construction of a 400kV overhead line from the proposed Sandford Substation to Seabank Substation. In the Portishead/Portbury area two options are included within the Development Consent Order (DCO) application: National Grid's preferred route (Option A); and an alternative route (Option B). The total length of the preferred route is approximately 29.8km (Option A) and the alternative route is 31.2km (Option B).</p>	D, E, F and G
<p><b>Modifications to the Overhead Lines at Hinkley Point</b></p>	H
<p><b>CSE Compounds</b></p> <p>Two single circuit CSE compounds of approximately 34m by 30m are proposed on Horsey Level, north of Bridgwater.</p> <p>A double circuit CSE compound of approximately 65m by 40m is proposed adjacent and east of the M5 motorway to the south of the Mendip Hills and the River Axe.</p>	<p>A (Horsey Level)</p> <p>B (South of Mendip Hills)</p>
<p><b>400kV Underground Cables</b></p> <p>These comprise approximately 300m of underground cables between two single circuit CSE compounds on Horsey Level, north of Bridgwater and approximately 8.5km of underground cables between a CSE compound south of the Mendip Hills and the proposed Sandford Substation.</p>	<p>A (Horsey Level)</p> <p>B, C and D (between CSE compound and Sandford Substation)</p>

Proposed Development Component	Section(s)
<b>Removal of Existing 132kV Overhead Lines</b> <ul style="list-style-type: none"> <li>Approximately 53.2km of the existing overhead line (<b>F and G Route</b>) between Bridgwater and Avonmouth substations.</li> <li>Approximately 8.7km of the existing overhead line (<b>W Route</b>) between Nailsea and Portishead Substation (to be replaced with 132kV underground cables).</li> <li>Approximately 1.1km of the existing overhead line (<b>AT Route</b>) to the south of Puxton.</li> <li>Approximately 400m of the existing overhead line (<b>N Route</b>) near Mead Lane, Sandford.</li> <li>A short section of the existing overhead line (<b>BW Route</b>) between Portishead and Avonmouth to achieve a crossing of electrical circuits (to be replaced with 132kV underground cables).</li> <li>Approximately 1.7km of existing overhead line (<b>G Route</b>) from the existing Avonmouth Substation northwards (to be replaced with 132kV underground cables).</li> <li>A short section of three existing 132kV overhead lines (<b>G, DA and BW Routes</b>) in the vicinity of Seabank Substation to achieve a crossing of electrical circuits (to be replaced with 132kV underground cables).</li> </ul>	<p>A, B, C, D, E, F and G (F and G Route)</p> <p>D, E and F (W Route)</p> <p>D (AT and N Route)</p> <p>F and G (BW Routes)</p> <p>G (G Route)</p> <p>G (G, DA and BW Routes at Seabank)</p>
<b>Sandford Substation</b>	D
<b>Construction of 132kV Overhead Lines</b> <p>132kV overhead line connections are required between the proposed Sandford Substation and the existing overhead lines feeding Weston-super-Mare (<b>AT Route</b>) (2.3km) and Churchill (<b>N Route</b>) (285m) and between Churchill Substation and an existing overhead line that currently passes by the substation (264m).</p>	D

Proposed Development Component	Section(s)
<b>Construction of 132kV Underground Cables</b> <ul style="list-style-type: none"> <li>A short section of approximately 250m of underground cable (<b>Y Route</b>) to connect Churchill Substation with an existing overhead line that currently passes by the substation.</li> <li>Approximately 700m of underground cables (<b>AT Route</b>) in the vicinity of the proposed Sandford substation.</li> <li>Approximately 10km of underground cables (<b>W Route</b>) between Nailsea and Portishead Substation.</li> <li>Approximately 2.3km of underground cables (<b>G Route</b>) between the existing Avonmouth substation and just south of the Bristol to Avonmouth railway line.</li> <li>A short section of approximately 150m for Option A and 650m for Option B of underground cable (<b>BW Route</b>) to allow the 400kV overhead line to cross an existing 132kV overhead line to the north east of Portishead.</li> <li>Three short sections of underground cable (<b>G, DA and BW Routes</b>) of between 150m and 300m to allow the 400kV overhead line to cross three existing 132kV overhead lines in the vicinity of Seabank Substation.</li> </ul>	D (Y and AT Routes)  D, E and F (W Route)  F and G (BW Routes)  G (G Route)  G (G, DA and BW Routes at Seabank)
<b>Seabank 400kV Substation Extension</b>	G
<b>Extensions/Modifications to Existing 132kV Substations</b> Modifications are required to existing 132kV substations at Churchill, Portishead, Avonmouth and Seabank.	D (Churchill) F (Portishead) G (Avonmouth and Seabank)
<b>Associated Works</b> These include temporary masts and supports for overhead line construction, temporary and permanent access roads, modifications to the highway network and construction storage and working areas.	A, B, C, D, E, F, G and H

The proposed route for the new grid connection and associated work has been subdivided into nine sections. This report assesses the Proposed Development within Section E, defined as the grid connection between the southern-most extent of the Tickenham Ridge at Stone-edge Batch and the M5 motorway north of the Tickenham Ridge and including Portbury. The subsequent sections of the development are covered in separate standalone reports.

A summary of the proposed components within Section E Tickenham Ridge are as follows:

- Construction of a 400kV overhead line;
- The removal of F Route and W Route 132kV overhead lines; and
- Construction of 132kV underground cables.



Two previous ground investigation reports have been made available to RSK for review. The primary purpose of these investigations was to identify ground conditions for geotechnical purposes and to provide an unexploded ordnances (UXO) survey. A summary of these investigations is presented within Section 2.3.

## **1.2 Objective and aims**

The objective of the work is to provide an indication of potential contamination issues and other ground related constraints at the site.

The aim of this work is to undertake an assessment of the site and surrounding area in terms of history, environmental setting and potential sources of contamination, from which an initial conceptual site model (ICSM) can be produced. This report and ICSM are to be utilised as a baseline technical report for the PEIR and ES.

## **1.3 Scope**

The scope of the investigation and layout of this report has been designed with consideration of CLR11 (Environment Agency, 2004a), BS 10175: 2011 (BSI, 2011), and National Planning Policy Framework (DCLG, 2012), plus guidance on land contamination reports issued by the Environment Agency (2010a). A summary of relevant legislation is included in Appendix B.

The project was carried out to an agreed brief, as set out in RSK's proposal (reference 110574, dated March 2013). The scope of works for the environmental assessment included:

- a preliminary risk assessment (PRA), to include a review of existing reports (if available), geological, hydrogeological and hydrological information, a commercially available environmental database and historical plans, correspondence with regulatory authorities, and a site walkover; this information is used to develop an initial conceptual site model (ICSM) to consider any potentially complete pollutant linkages;
- a review of published geological data to assess ground stability;
- consultation with the following organisations:
  - Environment Agency (EA);
  - North Somerset District Council; and
  - Somerset County Council.
- presentation of the baseline data in a standalone technical report, along with a PRA for the site, including an ICSM. It is intended that the PRA and ICSM will form the basis of an environmental statement chapter.

## 1.4 Existing reports

The following reports were made available to RSK for review:

- Branson, A., Key, S., Strange, J., and Pennock, J., 2010. *Seabank to Bridgwater and Avonmouth: Desk study and preliminary geotechnical risk rating report; CGN/2644*. Harrogate: Card Geotechnics Limited; and
- Triffitt, A.A. and Jones, M.R., 2012. *Hinkley Point – Seabank 400kV Overhead Line: Geotechnical Desk Top Study; LSTC/GI 244*. Issue A. Drifffield: LS Transmission Consultancy Limited.

The reader is also directed to the following Coal Mining Risk Assessment report which should be read in conjunction with this report.

- Przewieslik A, Morton, T., 2013. Hinkley Point C to Seabank Grid Connection Project Coal Mining Risk Assessment. 312318 – R10 (00). RSK Environment Ltd.

## 2 THE SITE

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### 2.1 Site location and description

Section E Tickenham Ridge ranges between the southern edge of the Tickenham Ridge at Stone-edge Batch at approximate National Grid (NG) reference 346551 171764; to the M5 motorway north of the ridge at approximate NG reference 348478 174527. This section also includes the hamlet of Portbury centred at NG reference 349840 175375.

This section along the grid connection generally comprises a ridge that trends roughly west to east. The topography at the base of the ridge at Stone-edge Batch is approximately 15m above Ordnance Datum (aOD), rising to the east and north to approximately 150m aOD. The ridge rises steeply on its southern face from the Tickenham and Nailsea Moors, then forming a generally flat plateau along the centre line of the ridge at approximate NG reference 348137 173248 and falling steeply down towards the M5 motorway and the Gordano Valley. The Tickenham Ridge forms the southern highland area of the Gordano valley.

The steeply sloping parts of the northern and southern faces of the ridge are generally covered in woodland with isolated residential properties such as at West Hill on the southern face of the ridge. The plateau along the centre line of the ridge comprises wooded areas; open fields used for agricultural purposes including both animal grazing and arable farming and isolated residential properties, such as along Cadbury Camp Lane.

The M5 motorway trends approximately west to east and bounds the ridge to the north, beyond which is the hamlet of Clapton-in Gordano and the Gordano valley.

The primary population centres within this section include Stone-edge Batch, Wraxall (Upper), West Hill and Portbury, although isolated residential properties are located on the plateau and along Cadbury Camp Lane.

There are no significant surface water features on the ridge. The Land Yeo is located south of Stone-edge Batch beyond the southern edge of the ridge.

A site location plan is presented as Figure 1 and the proposed redline boundary is presented as Figure 2.

## 2.2 Existing reports

### 2.2.1 Card Geotechnics Ltd, January 2010

The report presents a desk study and preliminary geotechnical risk rating for the proposed 400kV OHL between the Bridgwater 275/132kV substation at Dunwear, Bridgwater and the Seabank 400/275kV substation at Avonmouth. The report also includes an unexploded ordnance (UXO) desk study for the entire route corridor. It is noted that the current route alignment has been adjusted since the production of the Card report, 2010. The report includes the whole length of the proposed grid connection as proposed in 2010.

The key findings of the report are summarised below, however they cover the whole length of the grid connection route. Where feasible, pertinent features relating to Section E Tickenham Ridge have been highlighted within the summary below:

- The existing F route was constructed over a phased programme between the 1950s and 1970s, with some additions during the 1980s;
- In general, either Estuarine Alluvium or Tidal Flat Deposits are noted to underlie most of the proposed towers. Localised deposits of the Burtle Beds, Peat, Head Deposits, Alluvium, Higher Estuarine Alluvium and First and Second River Terrace Deposits are located along the route corridor;
- Made Ground or worked ground is predominantly located within the Avonmouth area along the route corridor, however may be located along the M5 motorway or railway lines and other road infrastructure;
- Soft ground, peat and potentially aggressive ground conditions have been identified along the route at a number of tower locations;
- The solid geology south of the Mendips is dominated by the Triassic Mercia Mudstone Group (MMG), which has a thickness of up to 350m. Within the southern most sections of the route corridor, the solid geology was identified as the Lower Lias or Blue Lias Formations. Through the Mendips, the bedrock comprises steeply dipping Carboniferous age rocks including the Upper and Lower Coal Measures and the Pembroke Limestone Group. Within the Nailsea area the bedrock comprises the Pennant Sandstone Formation and through the Tickenham Ridge section the bedrock comprises the Pembroke Limestone Group. From Portishead to Avonmouth, bedrock comprises the MMG;
- Several geological faults are identified along the route corridor. Within the southern section of the route there is a slight syncline within the rock strata and a series of faults where the Lower and Blue Lias Formation overlies the gently dipping MMG. A significant, however unnamed fault is located in the vicinity of Biddisham, dipping to the south-west and trending east-west. Faulting intensity increases within the northern part of the route corridor, especially within the coal measures;

- Within the Nailsea area, the route corridor passed over coal bearing strata. Recorded coal workings are located within 250m of some proposed towers within this area;
- Several small quarries and gravel pits are located along the route corridor and several historic landfills, are predominantly located within the Avonmouth area;
- A full UXO desk study was undertaken on behalf of Card Geotechnics by BAE systems. The report identified five former explosives/munitions factories along the route, dating back to World War I (WWI) at Avonmouth, Henbury, Portishead, Chittening and Bridgwater. Several World War II (WWII) defence structures including pill boxes and heavy anti-aircraft (HAA) batteries were identified in the vicinity of the route corridor, although these have been dismantled. The majority of the route corridor comprised a low density population area and as such had a very low aerial bombing density. Within the City Borough of Bristol (including Avonmouth) the bombing density of 6e HE/100ha, a relatively high frequency was identified. The report states that the typical maximum depth of German air-dropped UXO within the tidal flat deposits within Avonmouth is likely to be in the order of 10m below ground level (bgl).
- The risk of encountering contamination or explosive devices from munitions factories or buried UXO is low as the surrounding land use is rural or has been extensively developed (Portishead/Avonmouth area's) and any residues are likely to have degraded and dispersed in the intervening time;
- The report recommends that where ground work is to be undertaken in close proximity to munitions factories at Bridgwater, Avonmouth and Henbury, that soil samples should be sent for laboratory analysis to check for the presence of contamination. Where ground work is to be undertaken close to any HAA sites at Bridgwater and Avonmouth, site operatives should be made aware of the potential of encountering munitions; and
- The report provides generic geotechnical recommendations for foundation design.

A copy of the report is presented within Appendix G.

## 2.2.2 LSTC Ltd, November 2012

The report provides an assessment of anticipated ground conditions based on a geotechnical desk study, historic borehole logs and historic maps to make recommendations for preliminary ground investigations, from which preliminary tower foundations can be designed.

It is noted that the current route alignment has been adjusted since the production of the LSTC report, 2012. The report includes the whole length of the proposed grid connection as proposed in 2012.

The key findings of the report are summarised, however cover the whole length of the grid connection route. Where feasible, pertinent features relating to Section E Tickenham Ridge have been highlighted within the summary below:

- The geological mapping for the route corridor indicates the potential for weak ground bearing properties at tower locations for the majority of locations and piled foundations would be anticipated;
- Cone penetration tests (CPT's) were recommended as an effective investigation methodology to provide geotechnical parameters. Rotary boreholes should be drilled to confirm CPT results and monitoring wells installed to monitor groundwater levels;
- The report identifies both the superficial and bedrock geology beneath the route corridor;
- The Avonmouth and Nailsea coal fields are located within the northern section of the route. Mining activity may have been undertaken and further investigation was recommended;
- The report summarises the findings of the previous Card Geotechnics, 2010, investigations including the UXO desk study; and
- The report makes generic recommendations for ground investigation techniques to allow geotechnical parameters to be collected.

A copy of the report is presented within Appendix G.

## 3 PRELIMINARY RISK ASSESSMENT (PRA)

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### 3.1 Site walkover

A preliminary site visit was undertaken on 31 May and 5 June 2013. Photographs of the study site and surrounds are provided in Appendix C. A description of the site and potentially significant environmental and geotechnical issues arising from the survey are summarised below.

#### 3.1.1 Site description

*Stone-edge Batch to Cadbury Camp Lane, Whitehouse Lane and Cuckoo Lane junction*

The F and W routes trend north to south across the Tickenham Moor and cross Clevedon Road (B3130) at NG reference 346431 171826 close to Stone-edge Batch. The OHL's cross over agricultural fields and the Land Yeo to the south of Stone-edge Batch and passes between residential properties, farm buildings and a public house that adjoins Clevedon Road. North of Clevedon Road, the OHL's cross agricultural fields. At approximate NG reference 346420 172061, the OHL's trend east-north-east (ENE) and follow the topography up through a small valley towards the road junction between Cadbury Camp Lane, Whitehouse Lane and Cuckoo Lane. Within the small valley, the OHL's cross agricultural fields used for arable purposes. The sides of the valley are wooded. At approximately NG reference 347771 172774, the F and W routes diverge with the F route proceeding in a north-easterly direction and the W route continuing on the ENE trend. The F route passes east of the aforementioned road junction, whilst the W route passes west of the junction.

The proposed 400kV OHL would follow approximately the current F and W route alignments over Clevedon Road at Stone-edge Batch and through the small valley north of the hamlet up towards the road junction between Cadbury camp Lane, Whitehouse Lane and Cuckoo Lane.

The underground 132kV route would pass beneath the Tickenham Moor to the south of Stone-edge Batch at approximate NG reference 346054 171427, in a north to south direction. This area comprises low-lying open fields with numerous interconnected drainage ditches and rhynes. The route would pass between Tickenham Court to the west and a former garden nursery to the east, and pass beneath the Land Yeo at NG reference 345909 171728. The underground route would then progress in a north-easterly direction, parallel to Clevedon Road north-west of Stone-edge Batch at approximate NG reference 346116 171908. The underground route would then follow the current alignment of the F and W routes and the proposed 400kV OHL through the small valley towards the road junction with Cadbury camp Lane, Whitehouse Lane and Cuckoo Lane.

A proposed lay down area/underground cable route compound would be located at the road junction between Clevedon Road (B3130) and Old Lane at NG reference 346003 171857, which currently comprises an open, flat field used for agricultural purposes.

Two historic lime kilns are located in the general vicinity of the current F and W routes, within the small valley north of Stone-edge Batch.

*Cadbury Camp Lane, Whitehouse Lane and Cuckoo Lane junction to Portbury*

The F route having diverged from the W route, trends NE across Cadbury Camp Lane and Whitehouse Lane, crossing the central plateau of the ridge close to the road junction between Cadbury Camp Lane, Whitehouse Lane and Cuckoo Lane at NG reference 348048 172998. At NG reference 348214 173615, the F route trends approximately north, following the topography down the Tickenham Ridge and Naish Hill towards the M5 motorway. The F route crosses sloping fields used for agricultural purposes.

The W route crosses Cuckoo Lane and Whitehouse Lane at NG reference 348087 172952, trending in a ENE direction after passing over a stable, farm buildings and flat open agricultural fields. At approximate NG reference 348307 173030, the W route trends NE towards the M5 motorway and a sub-way at NG reference 349016 174917. The W route crossing sloping agricultural fields used for arable purposes and a dirt-bike track at NG reference 348644 174469.

The proposed 400kV OHL would pass between the current alignments of the F and W routes, across the central plateau and down towards to M5 Motorway, crossing the dirt-bike track at NG reference 348644 174469.

The proposed underground route runs parallel to Whitehouse Lane, proceeding north until crossing beneath the road at approximate NG reference 348034 173386 and trending NE across fields. The underground route would then align with the current W route alignment, proceeding down the ridge towards the motorway, crossing beneath the dirt-bike track and the sub-way beneath the motorway. A proposed lay down area/compound site would be located close to the sub-way at NG reference 349016 174917. This compound site currently comprises an open field used for arable farming.

A historic small quarry was noted along Cuckoo Lane, approximately 25m south of the W route. In addition, historic pits, now overgrown and seen as hummocks within a field were noted at NG reference 348179 173026.

### **3.1.2 Japanese Knotweed**

Japanese knotweed is a non-native, highly invasive species and spreads via rhizomes (underground 'stems') rather than seeds in the UK. It is found in a range of habitats across the UK including roadsides, riverbanks and derelict land.

The initial site walkover did not identified Japanese Knotweed within the development corridor.



This inspection was not undertaken by a Japanese Knotweed expert. It is therefore recommended that before any site operations are carried out the site is inspected by an individual experienced in the recognition of Japanese Knotweed. If Japanese Knotweed is found to be present, adequate precautions must be employed to prevent its spread, in particular along water courses during construction and demolition activities.

### 3.1.3 Off site issues

Wooded areas are located within the general vicinity of the development corridor, especially within the small valley north of Stone-edge Batch that includes Sir John's Wood, Round Wood, Abbot's Horn and Chummock Wood, with Bullock's Bottom and Prior's Wood at the north-eastern-most extent of the proposed route within Section E.

### 3.1.4 On site geotechnical issues

The sides of the Tickenham Ridge are steep in places, although the existing OHL's and the Proposed Development generally avoids such areas.

## 3.2 Ground conditions

### 3.2.1 Geology

Published records (British Geological Survey) for the area indicated the geology of the site to be characterised by the succession recorded in Table 2.

**Table 2: Geology within Section E Tickenham Ridge**

Geological unit	Description	Estimated thickness (m)
Superficial geology	<p>Superficial deposits are shown to be generally absent within Section E Tickenham Ridge. The exceptions to this are as follows:</p> <p><b>Alluvium:</b> comprising clay, silt, sand and gravel. These are described as normally soft to firm consolidated, compressible silty clay, but can contain layers of silt, sand, peat and basal gravel. A stronger, desiccated surface zone may be present. These deposits are located close to the Land Yeo, south of the Stone-edge Batch.</p> <p><b>Head Deposits:</b> comprising clay, silt, sand and gravel described as polymict deposit: comprises gravel, sand and clay depending on upslope source and distance from source. Poorly sorted and poorly stratified deposits formed mostly by solifluction and/or hillwash and soil creep. Essentially comprises sand and gravel, locally with lenses of silt, clay or peat and organic material. In the Bristol area: red or brown silt</p>	Up to several meters

Geological unit	Description	Estimated thickness (m)
	and stony clay with cobbles of hard rock, e.g. Carboniferous limestone or sandstone. Argillaceous frost-shattered rock debris either <i>in-situ</i> or soliflucted. Soliflucted deposits have variable sand/clay content. These deposits are restricted to a narrow gorge at Bullock's Bottom within the north-eastern part of the Tickenham Ridge and to Portbury.	
Bedrock	<p>Bedrock on the Tickenham Ridge predominantly comprises Carboniferous age rock including the Carboniferous Limestone Series and the Pennant Series Sandstone. These include the <b>Clifton Down Limestone, Goblin Combe Oolite Formation, Clifton Down Mudstone Formation, Black Rock Limestone Subgroup</b> and <b>Avon Group</b>. These generally comprise limestone with subordinate mudstone and dolomite and are described as thin to thick-bedded, dark grey to black, foetid, fine to coarse-grained skeletal [mainly crinoid] packstones with subordinate thin beds of shaley argillaceous skeletal packstone and mudstone.</p> <p>Interbedded grey mudstones and thin to medium-bedded skeletal packstones with one to several thick units of ooidal and skeletal grainstones.</p> <p>Medium- to thick-bedded, pale grey, oolitic grainstone with subordinate beds of fine-grained skeletal packstones. Thin- to medium-bedded poorly fossiliferous, calcite mudstones, dolomite mudstones and mudstones.</p> <p>The <b>Down End Member</b> of the <b>Pennant Sandstone Series</b> comprises sandstone and is described as green-grey and blue-grey, feldspathic, micaceous, lithic arenites with thin mudstone/siltstone.</p> <p>The Murcia Mudstone Group comprises mudstone described as dominantly red, less commonly green-grey, mudstones and subordinate siltstones with thick halite-bearing units in some basinal areas.</p>	Between 158m at Bristol
<p>Source: British Geological Survey website:  <a href="http://mapapps.bgs.ac.uk/geologyofbritain/home.html">http://mapapps.bgs.ac.uk/geologyofbritain/home.html</a></p>		

Made or artificial ground is not indicated on the geological mapping included with the environmental database report for the route or within 50m of the route alignment.

Several geological faults are present or have been conjectured, however the Naish Fault is present on the ridge. The MMG sits unconformably on the Carboniferous age rocks.

A summary of the geology is presented on Figure 3.

### 3.2.2 British Geological Survey (BGS) borehole records

The previous geotechnical desk study reports identified a comprehensive list of BGS borehole records for the general vicinity of the Proposed Development corridor. Please refer to the relevant reports for further details on available BGS records.

A brief review of these BGS records indicates that the published geology along the Proposed Development corridor corresponds with ground conditions encountered during historic ground investigations.

Copies of the previous geotechnical desk study reports are presented within Appendix G.

### 3.2.3 Soils

Reference has been made to the National Soils Resources Institute at the Cranfield University for data on soil types present within the section using <https://www.landis.org.uk/soilscapes/>.

Section E is underlain, passing from south to north, by soils comprising slightly acid loamy and clayey soils with impeded drainage; freely draining slightly acid but base rich soils; and freely draining acid loamy soil.

### 3.2.4 Designated geological sites

Evidence has been sought to identify any designated geological sites in the vicinity of the site. The sources of information referenced in this element of the desk study include:

- environmental database report (SSSI's);
- the Joint Nature Conservation Committee (JNCC) (<http://jncc.defra.gov.uk/default.aspx?page=4177&authority=UKK12>) for details of Geological Conservation Review reports; and
- the European Geoparks Network (<http://www.europeangeoparks.org/>) for details of European Designated Geoparks

A single geologically related SSSIs (also GCR site) was identified within the environmental database report. This related to:

- Court Hill (Quaternary of Somerset) at grid reference ST436722 approximately 2km to the north west of the southern most part of Section E.

The following RIG sites were identified from Somerset Environmental Research Centre (SERC) records:

- Wellhouse Farm, located 355m south of the Proposed Development;
- Lime Beech Wood, located 330m north of the Proposed Development;
- Baye's Wood Quarry located 1.5km west of the Proposed Development;

- Naish Hill located 240m west of the Proposed Development; and
- Tickenham Hill Col, located 1.95km west of the proposed development.

The site does not lie within a designated European Geopark.

### **3.2.5 Radon**

The environmental database report indicates that the Proposed Development within Section E Tickenham Ridge is located within an 'Affected Area' as defined by the Documents of the National Radiological Protection Board (Radon Atlas of England and Wales, NRPB-W26-2002). The report states that 'full radon protection measures are necessary in the construction of new dwellings or extensions'.

### **3.2.6 Mining and quarrying**

Evidence has been sought to identify any mining and quarrying operations, past and present, which have taken place in the vicinity of the site. The sources of information referenced in this element of the desk study include:

- environmental database report

Numerous historic quarries, pits and cuttings are located on the Tickenham Ridge. These relate to the extraction of limestone via surface mining methods. These are often associated with lime kilns. Many former quarries and lime kilns are located within 100m of the Proposed Development corridor, however have not been identified beneath any existing or proposed tower location or beneath the proposed underground cable route.

A number of small ponds, ground workings, cuttings and quarries have been identified within the wider area that have been potentially infilled. A former small quarry is identified at Cherry Orchard Farm, Clapton in Gordano at approximate NG reference 348092 174248 close to the existing W route and an existing tower location.

Section E Tickenham Ridge is located within an area that is potentially influenced by coal mining. There are several historic coal mining shafts, air shafts and a coal pit shown on the northern face of the Tickenham ridge at Clapton in Gordano, within the Gordano valley. These are generally located at a distance of greater than 750m from the development corridor, all to the north-west of the site within Cockheap Wood and off Clapton Lane.

Section E Tickenham Ridge does not fall within an area influenced by brine.

### **3.2.7 Designated mineral extraction sites**

To determine whether sites with current or future mineral value are located in close proximity to the development corridor, a review of information available on the BGS website relating to designated mineral safeguard areas (MSA's) within Somerset was

undertaken. No MSA's are located along the Proposed Development. A review of planning application for mineral purposes was also undertaken. This included the review of any recorded valid or expired planning permissions for both surface and underground mineral extraction activities as recorded by the Mineral Planning Authority. This data specifically relates to planning permissions dated as of 1 October 2004 and includes information on the mineral resource extracted.

Key features within Section E Tickenham Ridge are as follows:

- The superficial Alluvium south of the Tickenham Ridge and associated with the Land Yeo are an inferred potential resource for sand and gravel;
- High quality limestone deposits (>97% CaCO<sub>3</sub>) are present on the ridge; and
- No designated mineral extraction sites are shown on the ridge.

A copy of the Mineral Resource Map can be viewed at <http://www.bgs.ac.uk/mineralsuk/planning/resource.html#MRM>.

Section E Tickenham Ridge is located within an area designated under the petroleum exploration and development licence, issued under the Petroleum (Production) Act 1934 (as at September 2004).

### 3.2.8 Ground stability hazards

Evidence has been sought to identify any potential ground stability hazards on or in the immediate vicinity of the site. The sources of information referenced in this element of the desk study include:

- environmental database report

**Table 3: Ground stability hazards**

Hazard	Hazard Potential on Site
Collapsible Ground	Very low hazard
Compressible Ground	High hazard
Ground Dissolution	Low to moderate hazard
Landslide	Low to moderate hazard
Running Sand	Moderate hazard
Shrinking or Swelling Clay	Very low hazard

Potential ground stability hazards arising from compressible ground are classed as high within the environmental database. This risk designation applies to the low-lying areas

within the Gordano valley to the north of the site owing to the presence of Tidal Flat Deposits and peat. The environmental database buffer zone for this area includes both the Tickenham Ridge and the Gordano valley. Actual risks within Section E Tickenham Ridge, from compressible ground stability hazards are likely to be low.

Due to the aforementioned buffer zone, potential ground stability hazards arising from running sand have also been over estimated for the Tickenham Ridge, which is likely to have a low risk from this stability hazard.

A low to moderate ground stability hazard from landslide and ground dissolution is applicable to the Tickenham Ridge owing to the topography and limestone bedrock geology.

There are no recorded natural cavities or man-made cavities recorded along the development corridor, however it is noted that natural cavities can form in limestone deposits.

### **3.2.9 Landfilling and land reclamation**

Evidence has been sought to identify any landfilling or land reclamation operations, past and present, which have taken place in the vicinity of the site. The sources of information referenced in this element of the desk study include:

- environmental database report

A single historic landfill is recorded within Section E Tickenham Ridge. This is located off Cuckoo Lane, at the rear of Hunters Croft at NG reference 348000 172800. The deposited waste included inert and industrial material. This landfill is located within 230m of the W route and an existing tower location.

### **3.2.10 Ground gas**

Given the anticipated ground conditions the risk associated with ground gas (methane and carbon dioxide) is considered low to moderate in accordance with CIRIA C665 (Wilson et al., 2007). The risk rating for ground gas is considered low to moderate for this section of the route.

There are no other waste sites recorded on the ridge.

## **3.3 Hydrogeology**

### **3.3.1 Aquifer characteristics**

The groundwater flow is expected to follow the topography and flow generally towards surface water features such as the rivers.

### **3.3.2 Vulnerability of groundwater resources**

The Head deposits within a narrow gorge at Bullock's Bottom on the ridge are designated as a secondary undifferentiated aquifer:

- Assigned where it is not possible to attribute either category A or B to a rock type.

The Alluvium located in close proximity of the Land Yeo at Stone-edge Batch, are designated as a secondary A aquifer:

- secondary A aquifer: permeable layers capable of supporting water supplies at a local level rather than strategic scale, and in some cases forming an imported source of base flow to rivers.

The MMG has been classified by the EA as a secondary B aquifer:

- secondary B aquifer: predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

The Pennant Sandstone and Avon Group have been classified by the EA as a secondary A aquifer:

- secondary A aquifer: permeable layers capable of supporting water supplies at a local level rather than strategic scale, and in some cases forming an imported source of base flow to rivers.

The limestone bedrock on the Tickenham Ridge has been classified by the EA as a principal aquifer:

- Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/base flow on a strategic scale.

### **3.3.3 Risk from rising groundwater levels**

Rising groundwater levels can result in flooding if not properly controlled. In certain areas groundwater levels are rising owing to reduced groundwater abstraction by industry.

The environmental database indicates that the Proposed Development corridor on Tickenham Ridge passed through an area at very high susceptibility of rising groundwater. A high confidence level in the data is assumed.

### **3.3.4 Licensed groundwater abstraction**

There are two recorded groundwater abstractions in the general vicinity of the Proposed Development corridor. These are as follows:

- A single abstraction at Tickenham - for general farming and domestic use;

- A single abstraction at a distance of 930m south-east of the development corridor at Wraxall - for general use relating to medium loss.

There are no public potable water abstractions within 1,500m of the development corridor.

In terms of aquifer protection, the EA generally adopts a three-fold classification of source protection zones (SPZ) for public supply abstraction wells.

- zone 1 or 'inner protection zone' is located immediately adjacent to the groundwater source and is based on a 50-day travel time. It is designed to protect against the effects of human activity and biological/chemical contaminants that may have an immediate effect on the source;
- zone 2 or 'outer protection zone' is defined by a 400-day travel time to the source. The travel time is designed to provide delay and attenuation of slowly degrading pollutants; and
- zone 3 or 'total catchment' is the total area needed to support removal of water from the borehole, and to support any discharge from the borehole.

Information within the environmental database indicates that the Black Rock Limestone Formation on the Tickenham Ridge has been designated by the EA as a SPZ zone 1 (inner catchment).

## 3.4 Hydrology

This is commented on in brief in the following sub-sections as the hydrology of the site will be dealt with in a separate technical report.

### 3.4.1 Surface watercourses

Significant surface water courses are generally absent from the Tickenham Ridge. A tertiary stream crosses the plateau of the ridge, close to Naish Farm and flows through Bullock's Bottom towards the north-east. A further tertiary stream follows the alignment of the M5 motorway.

The primary surface water features within Section E Tickenham Ridge include the Land Yeo at Stone-edge Batch, the southern margin of the ridge.

There are no recorded pollution incidents to controlled waters within the environmental database for Section E Tickenham Ridge.

The environmental database indicates that the biological water quality within the interconnected drainage network is generally Excellent to good (grade A-B), however the chemical quality typically is moderate (D).



### **3.4.2 Surface water abstractions**

There are no surface water abstractions on the Tickenham Ridge.

No potable surface water abstractions are noted within 1,500m of the development area.

### **3.4.3 Site drainage**

The development area predominantly comprises a topographically elevated area. Any surface water would drain into small ditches and follow the topography to the north or south and the corresponding low-lying areas either side for the ridge.

### **3.4.4 Preliminary flood risk assessment**

A standalone flood risk assessment is to be undertaken under separate cover. A general overview is presented below.

The base of the Tickenham Ridge, south of Clevedon Road is located within a zone 2 and 3 flood risk. The ridge itself is not located within a flood zone.

No flood defences are shown within Section E Tickenham Ridge.

Zone 2 flood areas estimate the annual probability of flooding as one in one thousand (0.1%) or greater from rivers and sea but less than 1% from rivers and 0.5% from the sea.

Zone 3 flood areas estimate the annual probability of flooding as one in one hundred (1%) or greater from rivers and one in two hundred (0.5%) or greater from the sea.

## **3.5 History of site and surrounding area**

The history of the land-use and development of the site and surrounding area has been assessed based on the following sources:

- historical maps within the environmental database from 1882 to 2012.

Copies of OS and County Series maps are included in the environmental database report in Appendix E. Reference to historical maps provides invaluable information regarding the land use history of the site, but historical evidence may be incomplete for the period pre-dating the first edition and between successive maps.

The development history of Section E Tickenham Ridge and surrounding area from the above sources is summarised below:

1880s: The area is predominately rural and agricultural with wooded areas. Isolated farmsteads are located within the general vicinity in addition to the population centres of Stone-edge Batch, Clapton in Gordano and Portbury. Numerous lime kilns and small

quarries/pits are located in the wider area, however none are located directly beneath the current or proposed route alignments. At least four coal shafts are located in excess of 750m from the development corridor, to the north at Clapton in Gordano. Cadbury Camp Hill Fort is located over 850m north-west from the development corridor.

1900s: No significant changes are evident.

1910s: A quarry is shown beneath the current F route at Cherry Orchard Farm, Clapton in Gordano.

1930s: An old marl pit is shown close to the junction of Cadbury Camp Lane, Whitehouse Lane and Cuckoo Lane on the ridge. Several historic structures are also recorded in close proximity to this pit.

1960s: The F route is shown on the maps, along its current alignment. Residential development is evident. No other significant changes are evident.

1970s: The W route is shown on maps, along its current alignment. Residential development is evident at Portbury. No other significant changes are evident. The M5 motorway has been constructed by the late 1970s.

1980s: A garage and several nurseries are shown at Stone-edge Batch. No other significant changes are evident.

2000s: No other significant changes are evident.

2010s: No other significant changes are evident.

The site historic has generally comprised wooded areas or open agricultural fields. Several historic quarries, pits and lime kilns are shown on the maps. These are not located beneath existing or proposed tower locations or beneath the proposed underground cable route.

Several coal shafts; air shafts and coal pits are shown in the Gordano valley to the north of the Proposed Development.

The small population centres such as Stone-edge Batch, West Hill, Clapton in Gordano and Portbury shown residential development between the 1960s and 1970s.

The F route was developed during the 1960s, with the W route and the M5 motorway developed during the 1970s.

Several foundations or earthworks, a marl pit and areas of historic interest including a deserted medieval village are located in the immediate vicinity the road junction between Cadbury Camp Lane, Cuckoo Lane and Whitehouse Lane.

### **3.6 Sensitive land uses**

There are no recorded designated environmentally sensitive areas within Section E Tickenham Ridge. It is noted that there are designate environmentally sensitive areas within the Gordano valley to the north and the Tickenham and Nailsea Moors to the south. These have been discussed under separate cover within the relevant report sections.

### **3.7 Licences and permissions**

There are no records of planning hazardous substance consents, IPC, IPPC, COMAH and NIHHS sites, water industry referrals, category 3 and 4 radioactive substances licences, red list discharge consents or sites designated as contaminated land under part 2A within 500m of the route alignment.

There are generally few discharge consents within Section E Tickenham Ridge. Where present, these predominantly relate to discharge of final effluent from agricultural processes, effluent discharge by waster companies or nurseries. The discharge locations are generally not located close to the Proposed Development corridor and these are considered unlikely to significantly impact the Proposed Development.

A recorded list 2 dangerous substances inventory site is located within 500m south-east of the development corridor at West Hill. This relates to a fish farm and the use of copper as an additive/water treatment. This is considered unlikely to significantly impact the development.

A single part A(2) and part B activity is located close to the development corridor, at Portbury. This relates to a dry cleaners and the use of commercial detergents. This is considered unlikely to significantly impact the development.

#### **3.7.1 Local trade entries and other potentially contaminative uses**

Recorded businesses in the area that might be considered contaminative include a garage/MOT centre and vehicle repair centre at Stone-edge Batch.

An ironmonger and several former nurseries are located at Stone-edge Batch.

A high pressure oil and or gas pipeline is located at the southern base of the Tickenham Ridge. Potential risks arising from this below ground high pressure pipeline have been assessed under Section D Somerset Levels and Moors North, under separate cover (RSK report reference 312318 R4 (00)).

There are no recorded petrol service stations close to the site.

### 3.8 Third party enquiries

The following third parties were contacted and requested to provide information pertaining to the site:

- Environment Agency, National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY;
- Somerset County Council; and
- North Somerset District Council.

Correspondence from Somerset Council included the following information:

- Information on contaminated land sites is held by the district planning authorities on the contaminated land register;
- Somerset Council recommended contacting the relevant district councils for further information;
- Somerset Council recommended the following sources of further information:
  - “The British Geological Survey county map which details all geology in Somerset. Available from here: <http://www.bgs.ac.uk/mineralsuk/planning/resource.html#MRM>”;
  - “Minerals preferred options document, Appendix 1 details quarries, peat areas, building stone etc. I’d draw particular attention to figure 9-12 which detail the proposed safeguarding areas (covering mineral and infrastructure such as wharves). [http://www.somerset.gov.uk/irj/go/km/docs/CouncilDocuments/SCC/Documents/Environment/Minerals%20and%20waste/Minerals%20Preferred%20Options/Minerals\\_Plan\\_Jan\\_13.pdf](http://www.somerset.gov.uk/irj/go/km/docs/CouncilDocuments/SCC/Documents/Environment/Minerals%20and%20waste/Minerals%20Preferred%20Options/Minerals_Plan_Jan_13.pdf)”; and
  - “There are 208 county geology sites in Somerset, and Somerset Environmental Records Centre hold a GIS dataset of these (<http://www.somerc.com/homepage/>)

Correspondence from North Somerset Council (NSC) included the following information:

- The council has identified several potentially contaminated land sites within their records in the vicinity of the proposed route from their historical maps or through their planning records;
- There is still the potential for unknown contaminated land sites to be discovered during the works;

- There are no contaminated land Part IIA of the Environmental Protection Act 1990 on or in the vicinity of the proposed route;
- It should be noted that the correspondence from NSC identified further potentially contaminative land uses, however these fall outside of Section E Tickenham Ridge and have been discussed in the appropriate section.

Correspondence from the EA included the following information:

- The EA recommend that the PRA and EIA considers historic land use and potential contamination risks on a site by site basis.

Copies of correspondence received at the time of writing the report are presented in Appendix F.

### 3.9 Initial conceptual model

The information presented in Sections 2 and 3.1 to 3.8 has been used to compile an initial conceptual model (ISCM). The identified potential sources of contamination, associated contaminants and receptors have been considered with plausible pathways that may link them. The resulting potential pollutant linkages are considered in Section 3.9.4. The risk classification has been estimated in accordance with information in Appendix D.

#### 3.9.1 Summary of potential contaminant sources

Potential sources and contaminants of concern are summarised in Table 4.

**Table 4: Potential sources and types of contamination**

Potential sources	Contaminants of concern
On-site historical and present day	
General made ground (if present)	Potential made ground (including heavy metals, polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH), asbestos, herbicides and pesticides
Infilled ponds and quarries	
Minor hydrocarbon spills from farming equipment and tanks at farms	
Herbicides and pesticides associated with the agricultural use	
Off-site	
General made ground (if present)	Potential made ground (including heavy metals, polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH), asbestos, herbicides and pesticides industrial waste (unspecified), mine gases
Minor hydrocarbon spills from farming equipment and tanks at farms	
Herbicides and pesticides associated with the agricultural use	

Potential sources	Contaminants of concern
<p>Ironmonger and garage/MOT centre - within 100m distance</p> <p>Former quarries, pits and lime kilns – between 25m and 100m distance</p> <p>Historic Landfill – within 230m distance</p> <p>Coal shafts and pit – in excess of 750m distance</p>	
<p>Notes: The site is located within a predominantly rural/agricultural setting. The presence of significant sources of contamination is considered unlikely.</p>	

### 3.9.2 Sensitive receptors

Sensitive receptors at this site include:

- Future site users (maintenance workers);
- Adjacent site users (public, farmers residential/commercial properties);
- Buildings and infrastructure;
- Ecological receptors;
- Groundwater beneath the site (secondary A/B aquifers) within superficial and bedrock;
- Groundwater beneath the site (principal aquifer) within limestone bedrock; and
- Surface water receptors (ponds, drainage ditches, tertiary surface water features such as streams).

Please note that construction workers have not been identified in the conceptual model as receptors because risks are considered to be managed through health and safety procedures including CDM regulations.

### 3.9.3 Summary of plausible pathways

The plausible pathways are summarised below:

- Direct contact with soil through ingestion, dermal contact and inhalation of particulates;
- Ground gas, mine gas and soil vapour inhalation;
- Build up of ground gases or mine gases to pose explosion risk or risk of asphyxiation;
- Vertical and lateral migration of contaminants including remobilisation and leaching;
- Spills of sediment/contaminants during construction/decommissioning works into surface water receptors (e.g. surface water runoff); and
- Chemical attack of infrastructure and buildings.

#### **3.9.4 Potentially complete pollutant linkages**

The initial conceptual model is shown schematically in Figure 4 and an estimate of the risk associated with each linkage is summarised in Table 5. The risk classification has been undertaken in accordance with CIRIA C552 (Rudland et al., 2001), a summary of which is included in Appendix D. A complete pollutant linkage exists where a receptor is exposed to a source of contaminants via a pathway, such that unacceptable harm to the receptor occurs, or could occur, as a result.

**Table 5: Risk estimation for potentially complete pollutant linkages**

Potential contaminant	Potential receptor	Possible pathway	Likelihood	Severity of harm	Risk and justification
<b>Soil source</b>  General made ground, potential minor hydrocarbon spills from farming equipment or tanks on farms and associated buildings.  Infilled ponds  Herbicides / pesticides from agricultural land use.  Permanent gases from either made	Future users (such as maintenance workers)	Direct contact	Unlikely	Medium	<b>Low:</b>  Historic land use suggests low potential for significant sources of contamination. Routine breaking of ground is unlikely following construction. Underground cable route compound to include gravel cover or managed soft landscaping.
		Ground gas asphyxiation / risk of explosion	Unlikely	Severe	<b>Moderate/Low:</b>  An accumulation of gas can only take place within a confined space. There are no planned above ground permanent structures, however access chambers are planned that would be considered a confined space, access to which would be controlled by health and safety legislation.  It is considered that there is no plausible linkage or that access to manhole chambers would be in accordance with appropriate health and safety legislation. .  Plausible pathway considered unlikely along the F and W routes owing to out door air exposure. Plausible pathway considered unlikely along the F and W routes owing to out door air exposure.



Potential contaminant	Potential receptor	Possible pathway	Likelihood	Severity of harm	Risk and justification
ground or natural strata (continued below)		Soil vapour inhalation	Unlikely	Medium	<p><b>Low:</b></p> <p>Assumes confined spaces for vapour intrusion/accumulation. Confined spaces may be present at access chambers. However, there is an assumption of a preferential vapour pathway and a source of volatile contaminants, which is unlikely given the site history. In addition access to manhole chambers would be in accordance with appropriate health and safety legislation.</p> <p>If present, VOCs would have a high dilution rate in outdoor air, the risk of inhalation exposure to which is low.</p> <p>Plausible pathway considered unlikely along the F and W routes owing to outdoor air exposure.</p>
	Adjacent site users (public, farms, residential and commercial)	Direct contact	Unlikely	Medium	<p><b>Low:</b></p> <p>The public, farmers or adjacent residents/commercial site users are unlikely to come into contact with site soils. Appropriate control measures to be implemented during construction activities for the underground route and during the decommissioning of the F and W routes. Compound and substation sites presumed to be securely fenced.</p> <p>Exposure risks potentially increased if contaminants at depth are excavated and left at the ground surface.</p>
		Direct contact (potable water pipes)	Unlikely	Medium	<p><b>Low:</b></p> <p>The Proposed Development is generally not located close to residential and commercial properties, where potable water supply pipes would come into contact with contaminated soils. Historic land use suggests low potential for significant sources of contamination.</p>

Potential contaminant	Potential receptor	Possible pathway	Likelihood	Severity of harm	Risk and justification
	Building foundations	Chemical attack of infrastructure	Likely	Mild	<b>Moderate/Low:</b> If present, contaminants within soils will come into contact with building foundations (aggressive ground conditions). The Mercia Mudstone is identified as potential sulphate bearing. Geotechnical data should be obtained to confirm the requirements for concrete/ in-ground infrastructure protection
	Ecological receptors	Direct contact	Unlikely	Medium	<b>Low:</b> Designated environmental receptors not present. Historic land use suggests low potential for significant sources of contamination. Plausible linkage considered absent for underground cable infrastructure.
	Groundwater beneath the F/W route towers, underground cable route and compound sites (secondary A/B aquifer)	Remobilisation and leaching	Unlikely	Medium	<b>Low:</b> If present, contaminants may leach to the groundwater table and the secondary A/B aquifer. Historic land use suggests low potential for significant sources of contamination.

Potential contaminant	Potential receptor	Possible pathway	Likelihood	Severity of harm	Risk and justification
	Groundwater beneath the F/W route towers, underground cable route and compound sites (principal aquifer)		Unlikely	Medium	<b>Low:</b> If present, contaminants may leach to the groundwater table and the principal aquifer. Historic land use suggests low potential for significant sources of contamination.
	Groundwater within the wider area	Vertical and lateral migration	Unlikely	Medium	<b>Low:</b> Groundwater migration is likely to follow the topography and flow towards the surface water receptors (drains and rivers on the Tickenham Moors and Gordano valley). Potential for significant contaminants beneath the site is considered low.  Contaminated shallow groundwater potentially mobilised to deeper strata via creation of preferential flow pathways by foundation piles.
	Surface water (Pond, ditches including tertiary streams)	Migration	Unlikely	Medium	<b>Low:</b> If present, contaminants may migrate with groundwater to surface water receptors, however the potential for significant contaminants beneath the site is considered low.
		Surface water run off during construction activity	Low Likelihood	Medium	<b>Moderate/Low:</b> Potential for surface water runoff or sediment to enter drainage ditches during construction/demolition activity. Appropriate method statements, working practises and mitigation measures and response plan would be required.

Potential contaminant	Potential receptor	Possible pathway	Likelihood	Severity of harm	Risk and justification
<b>Off site soil sources &amp; Landfills</b>  General made ground, potential minor hydrocarbon spills from farming equipment, from tanks on farms and associated buildings  Ironmonger and garage/MOT centre – 100m distance  Former quarries and pits and associated lime kilns	Future users (such as maintenance workers)	Direct contact	Unlikely	Medium	<b>Low:</b>  Historic land use within the immediate vicinity of both existing and proposed tower locations suggests low potential for significant sources of contamination. Routine breaking of ground is unlikely following construction. Contact would have to follow migration via groundwater.
	Groundwater beneath the OHL towers, underground cable route and compound sites (primary and secondary A/B aquifer)	Migration	Unlikely	Medium	<b>Low:</b>  If present, contaminants may migrate within groundwater to the proposed tower locations, however the historic land use suggests low potential for significant sources of contamination. In addition potential point sources are generally >100m distant from site.  Contaminated shallow groundwater potentially mobilised to deeper strata via creation of preferential flow pathways by foundation piles.
	Building foundations	Chemical attack of infrastructure	Likely	Mild	<b>Moderate/Low:</b>  If present, contaminants within soils could be leached and come into contact with building foundations (aggressive ground conditions).

Potential contaminant	Potential receptor	Possible pathway	Likelihood	Severity of harm	Risk and justification
<b>Landfill</b> Located 230m distance (inert and industrial estate) Ground gases	Future users (such as maintenance workers)	On site migration and accumulation of gases in confined spaces resulting a risk of explosion or asphyxiation	Unlikely	Severe	<b>Moderate/Low:</b> An accumulation of gas can only take place within a confined space. There are no planned above ground permanent structures, however access chambers are planned that would be considered a confined space, access to which would be controlled by health and safety legislation. It is considered that there is no plausible linkage or that access to manhole chambers would be in accordance with appropriate health and safety legislation. Plausible pathway considered unlikely along the F and W routes owing to out door air exposure.
<b>Coal mining</b> Mine gases	Future users (such as maintenance workers) Buildings and infrastructure	Mine gases	Unlikely	Severe	<b>Moderate/Low:</b> Mine gases may be present in coal workings located greater than 750m distance. It is theoretically possible that mine gases could migrate to the underground cable route. However, the distance involved is likely to mitigate against such risks. In addition, an accumulation of gas can only take place within a confined space. There are no planned above ground permanent structures, however access chambers may be planned that would be considered a confined space. It is anticipated that there is no plausible linkage or that access to manhole chambers would be in accordance with appropriate health and safety legislation.

Potential contaminant	Potential receptor	Possible pathway	Likelihood	Severity of harm	Risk and justification
<b>Groundwater source</b>  Theoretically impacted groundwater beneath the Proposed Development areas	Future users (such as maintenance workers)	Contaminants in groundwater beneath the site followed by vapour inhalation & direct contact	Unlikely	Medium	<b>Low:</b> Assumes groundwater source at shallow depth, beneath proposed structures and preferential vapour intrusion pathways. Potential confined spaces along underground cable route and compound. Presence of significant volumes of volatile contaminants considered very unlikely. Plausible pathway considered unlikely.  Routine breaking of ground exposing direct contact pathway is unlikely following construction.
	Neighbouring site users (residential/commercial properties)	Contaminants in groundwater, migrate off site followed by direct contact (via potable water pipes)	Unlikely	Medium	<b>Low:</b> Presence of impacted groundwater considered unlikely. Presence of potable water supply pipes below water table and in the vicinity of the site is also considered unlikely.
	Neighbouring site users (residential/commercial properties)	Contaminants in groundwater, migrate off site followed by vapour inhalation	Unlikely	Medium	<b>Low:</b> Assumes groundwater source at shallow depth, migrating beneath off site buildings. Considered unlikely. Presence of significant volumes of volatile contaminants considered very unlikely.

Potential contaminant	Potential receptor	Possible pathway	Likelihood	Severity of harm	Risk and justification
	Building foundations	Contaminants in groundwater migrate to on site structures	Likely	Mild	<b>Moderate/Low:</b> If present, contaminants (aggressive ground conditions) could come into contact with building foundations. However the potential for significant contaminants beneath the site is considered low. Geotechnical data should be obtained to confirm the requirements for concrete/ in-ground infrastructure protection
	Ecological receptors	Migration of groundwater contaminants off site to ecological receptor	Unlikely	Medium	<b>Low:</b> Ecological receptors not present. Potential for significant contaminants in groundwater at the site is considered low. Plausible linkage considered absent
	Primary and secondary A/B aquifer (wider area)	Migration of groundwater contaminants off site	Unlikely	Medium	<b>Low:</b> Groundwater migration is likely, however, the potential for significant contaminants beneath the site is considered low.  Contaminated shallow groundwater potentially mobilised to deeper strata via creation of preferential flow pathways by foundation piles.
	Surface water (ponds, drainage ditch and tertiary receptors)	Migration of groundwater contaminants off site to receptors	Unlikely	Medium	<b>Low:</b> If present, contaminants may migrate with groundwater to surface water receptors via groundwater, however the potential for significant contaminants beneath the site is considered low.
Notes: shaded cells indicate potentially complete pollutant linkages with a risk of moderate or above					

No potentially complete pollutant linkages have been identified that would result in a high risk to receptors.

A site investigation may be recommended to confirm the likely moderate/low risk to development.

The assessment has identified that the risks associated with the potential pollutant linkages are considered low to low/moderate. Given the site history and setting there are unlikely to be significant risks associated with the Proposed Development although intrusive investigations should be undertaken to confirm the findings of this assessment.

Potential risks to building infrastructure (foundations) from aggressive ground conditions has been identified. The bedrock within Section E includes the Mercia Mudstone Group, which is potential sulphate bearing. Potential risks can be mitigated and risks reduced to very low/low through appropriate concrete design.

Potential risks to controlled waters (surface water drains) from ingress of sediment or construction material during construction activity can be mitigated through appropriate working practises and mitigation measures.

### **3.9.5 Data gaps and uncertainties**

The Proposed Development area is situated within a rural agricultural setting; ecological receptors are located along the route alignments. If sensitive ecology is identified it could result in delays to construction to allow for mitigation or cessation during sensitive periods of the year.

A hydrological risk assessment including flood risk assessment is to be undertaken under separate cover.

### **3.9.6 Recommendations**

There may be the requirement to undertake ecological surveys prior to commencement of construction activity.

A flood risk assessment may be required to be undertaken and is beyond the scope of this assessment. A hydrological risk assessment is to be undertaken under separate cover.

Intrusive ground works will be required to confirm ground stability issues associated with compressible ground hazards owing to the presence of soft strata along the Proposed Development route. Investigation may be required to collect appropriate data to support concrete design for foundations of towers and other structures located along the development route. It is recommended that during such investigations consideration be given to undertaking contamination testing, sampling, monitoring to confirm the low to moderate risk rating identified in Table 4.



Suitable mitigation measures should be implemented to prevent ingress of surface water runoff or sediment arising through construction activity. Construction activities should additionally take other ecological constraints/considerations into account and implement appropriate mitigation measures for the protection of ecological receptors.

Appropriate measures should be taken during construction activities to minimise potential environmental impact from fuel use and storage. Such measures would include storing fuel within bunded, impermeable structures or areas.

The overall risk from coal mining activity to the development corridor is considered to be low. However, it is considered likely that the Coal Mining Authority will require as a minimum, a screen of available historic mining data for the area to confirm the low risk designation. A full coal mining risk assessment is unlikely to be required.

Before any site operations are carried out the site should be inspected by an individual experienced in the recognition of Japanese Knotweed. If Japanese Knotweed is found to be present, adequate precautions must be employed to prevent its spread, in particular along water courses during construction and demolition activities.

If there are drainage ditches that are culverted to allow access tracks to cross these surface water features, an assessment of their condition is recommended prior to vehicle movement over them.

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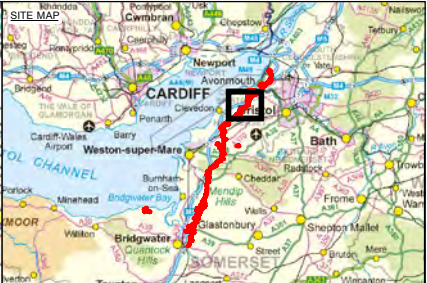
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## FIGURES

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**Key**

- Section Boundary
- Order Limits

ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD
C	25/03/14	Revised Order Limit	AJ	NH	AP
B	07/03/14	Revised Order Limit	DL	LH	AP
A	04/07/13	Order Limit Location	DL	LH	AP

**Title**

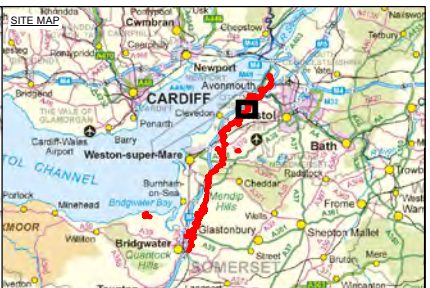
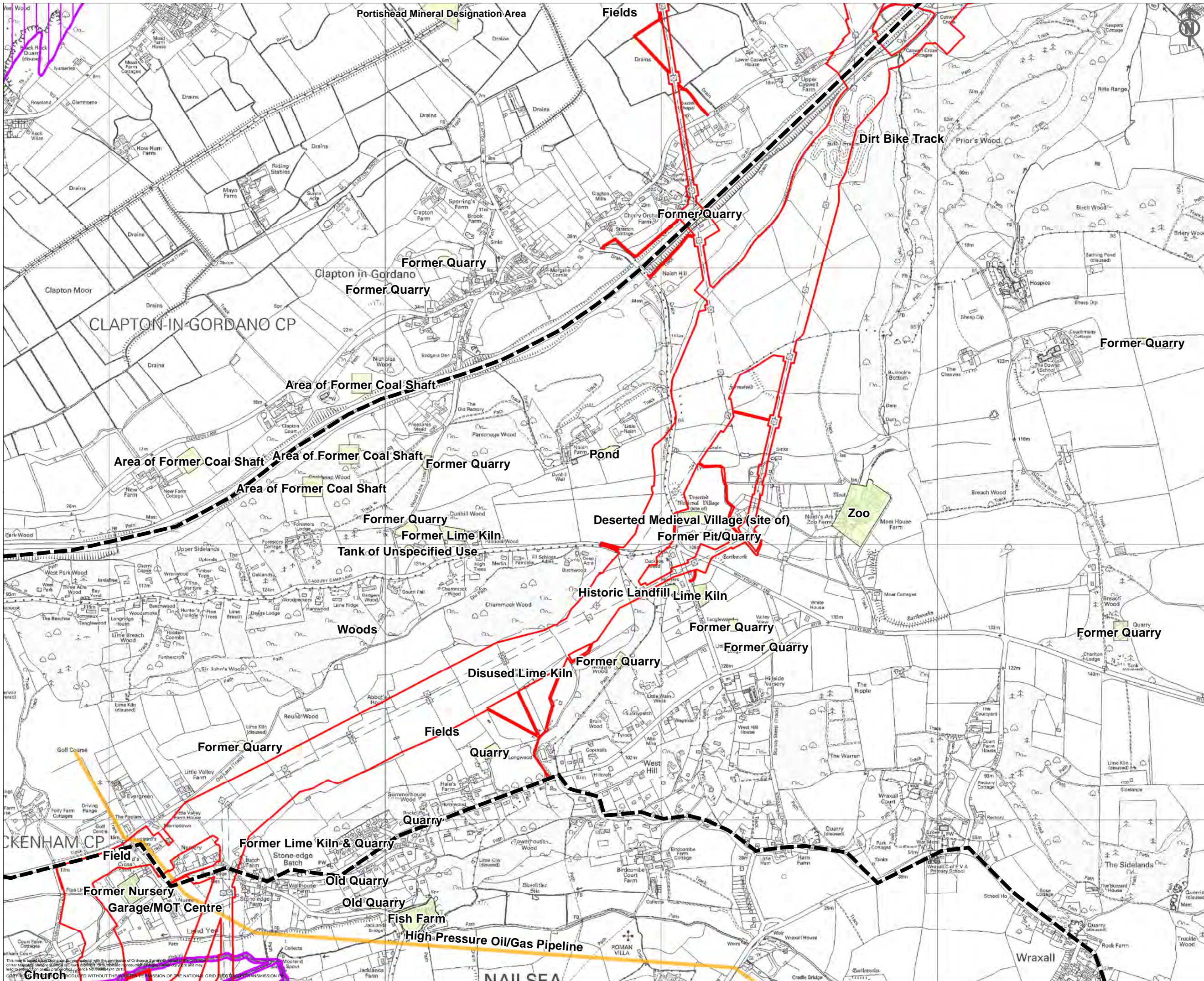
NATIONAL GRID (HINKLEY POINT C TO SEABANK GRID CONNECTION PROJECT - SECTION E TICKENDAM RIDGE) PRELIMINARY RISK ASSESSMENT

FIGURE 1: SITE LOCATION PLAN

<div><div></div><div><div>national</div><div>grid</div></div></div>			
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA			
<div>NG INVESTMENT No.</div> <div>20897</div>	<div>FIGURE No.</div> <div>1</div>		<div><div>GIS</div><div>A3</div></div>
<div><div>DRAWING No.</div><div>Section E - Fig 1 - Tickenham Ridge Location Plan</div></div>			<div><div>SCALE</div><div>1:25,000</div></div>
<div>SHEET 1 of 1</div>			<div><div>ISSUE</div><div>C</div></div>

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- Key**
- Section Boundary
  - Order Limits
  - SSSI
  - Highlighted Areas
  - Highlighted Lines

ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD
C	25/03/14	Revised Order Limit	AJ	NH	AP
B	07/03/14	Revised Order Limit	DL	LH	AP
A	09/07/13	Order Limit Location	DL	LH	AP

**Title**

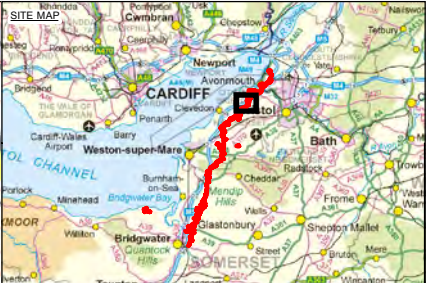
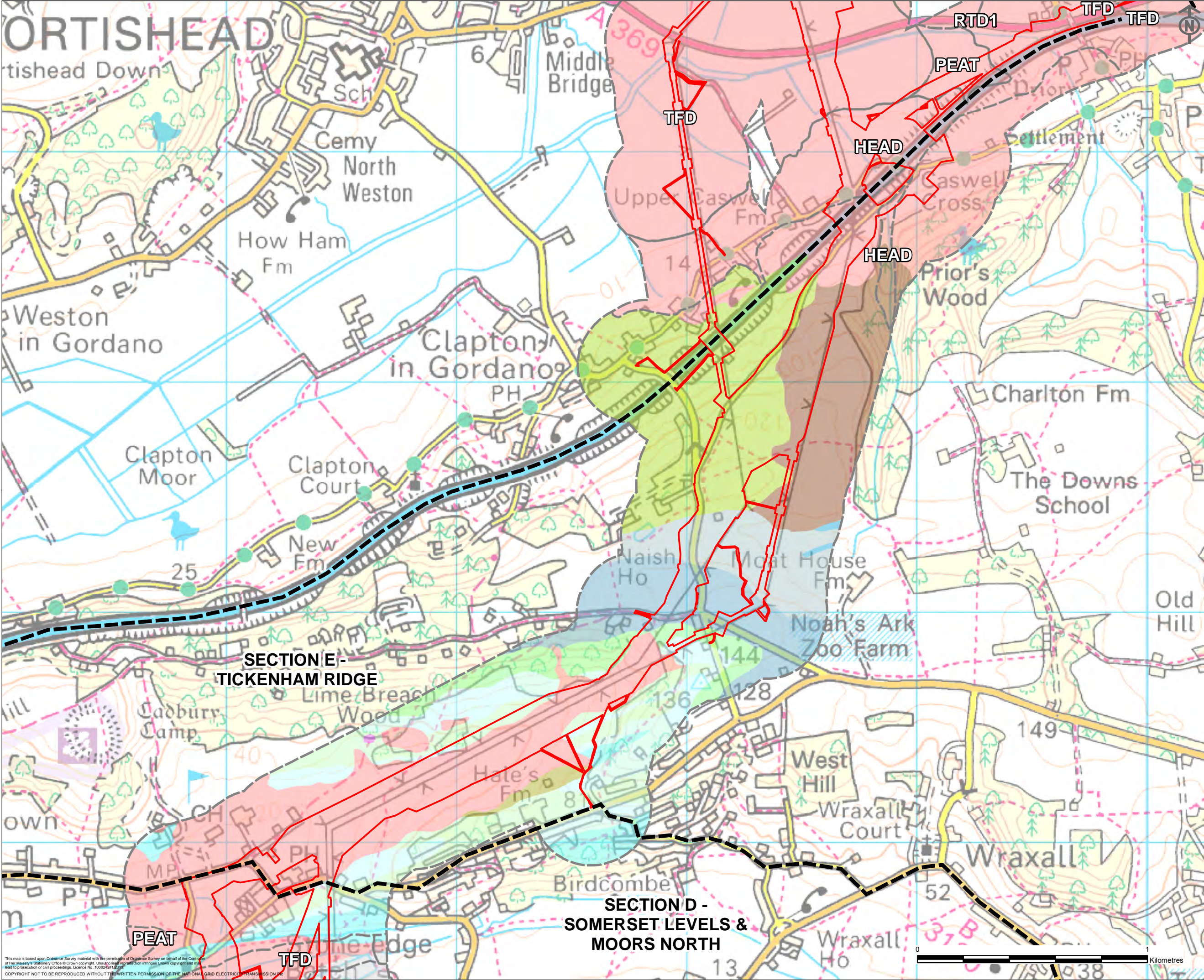
NATIONAL GRID (HINKLEY POINT C TO SEABANK GRID CONNECTION PROJECT - SECTION E TICKENHAM RIDGE) PRELIMINARY RISK ASSESSMENT

FIGURE 2: SITE FEATURES PLAN

<div></div> <div>National Grid plc, Warwick Technology Park, Galloway Hill, Warwick, CV34 6DA</div>			
<u>NG INVESTMENT No.</u> 20897	<u>FIGURE No.</u> 2		<u>GIS</u>  <b>A3</b>
<u>DRAWING No.</u> Section E - Fig 2 - Tickenham Ridge Features Plan			<u>SCALE</u> 1:12,490
SHEET 1 of 1			<u>ISSUE</u>  <b>C</b>

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**Key**

Section Boundary

Order Limits

Superficial Geology Boundary

MERCIA MUDSTONE GROUP - MUDSTONE AND HALITE-STONE

MERCIA MUDSTONE GROUP (MARGINAL FACIES) - CONGLOMERATE

DOWNEND MEMBER - SANDSTONE

PENNANT SANDSTONE FORMATION - SANDSTONE

SOUTH WALES LOWER COAL MEASURES FORMATION AND SOUTH WALES MIDDLE COAL MEASURES FORMATION (UNDIFFERENTIATED) - MUDSTONE, SILTSTONE AND SANDSTONE

SOUTH WALES LOWER COAL MEASURES FORMATION AND SOUTH WALES MIDDLE COAL MEASURES FORMATION (UNDIFFERENTIATED) - SANDSTONE

AVON GROUP - LIMESTONE

AVON GROUP - MUDSTONE AND LIMESTONE, INTERBEDDED

BLACK ROCK LIMESTONE SUBGROUP - DOLOMITISED LIMESTONE AND DOLOMITE

BLACK ROCK LIMESTONE SUBGROUP - LIMESTONE

CLIFTON DOWN LIMESTONE FORMATION - LIMESTONE

CLIFTON DOWN MUDSTONE FORMATION - LAVA, BASALTIC

CLIFTON DOWN MUDSTONE FORMATION - DOLOMITE-MUDSTONE

GOBLIN COMBE OOLITE FORMATION - LIMESTONE, OOIDAL

GULLY OOLITE FORMATION - LIMESTONE, OOIDAL

PORTISHEAD FORMATION - SANDSTONE

HEAD HEAD

PEAT PEAT

RTD1 RIVER TERRACE DEPOSITS,1

TFD TIDAL FLAT DEPOSITS

C	25/03/14	Revised Order Limit	AJ	NH	AP
B	07/03/14	Revised Order Limit	DL	LH	AP
A	04/07/13	Order Limit Location	DL	LH	AP
ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title

NATIONAL GRID (HINKLEY POINT C TO SEABANK GRID CONNECTION PROJECT - SECTION E TICKENHAM RIDGE) PRELIMINARY RISK ASSESSMENT

FIGURE 3: GEOLOGICAL CONDITIONS

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.

FIGURE No.

GIS

20897

3

A3

DRAWING No.

SCALE

1:15,000

Section E - Fig 3 - Tickenham Ridge Geology

ISSUE

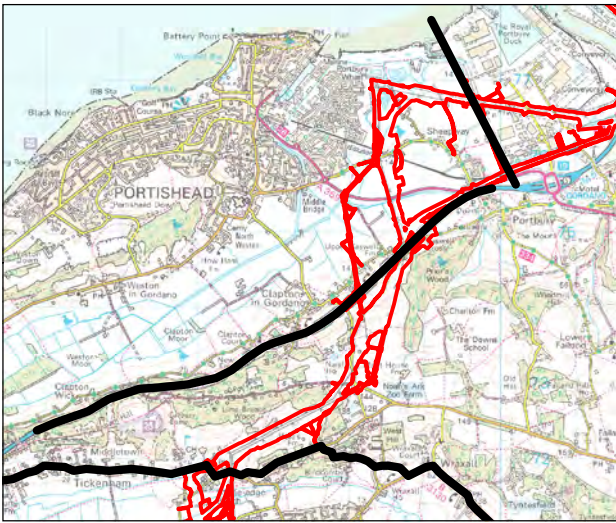
C

SHEET 1 of 1

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Document Path: P:\110000 - EPD Bristol\110574 - Bridgewater to Avonmouth\01 - Graphics\01 - GIS\Section E - Fig 3 - Tickenham Ridge Geology.mxd

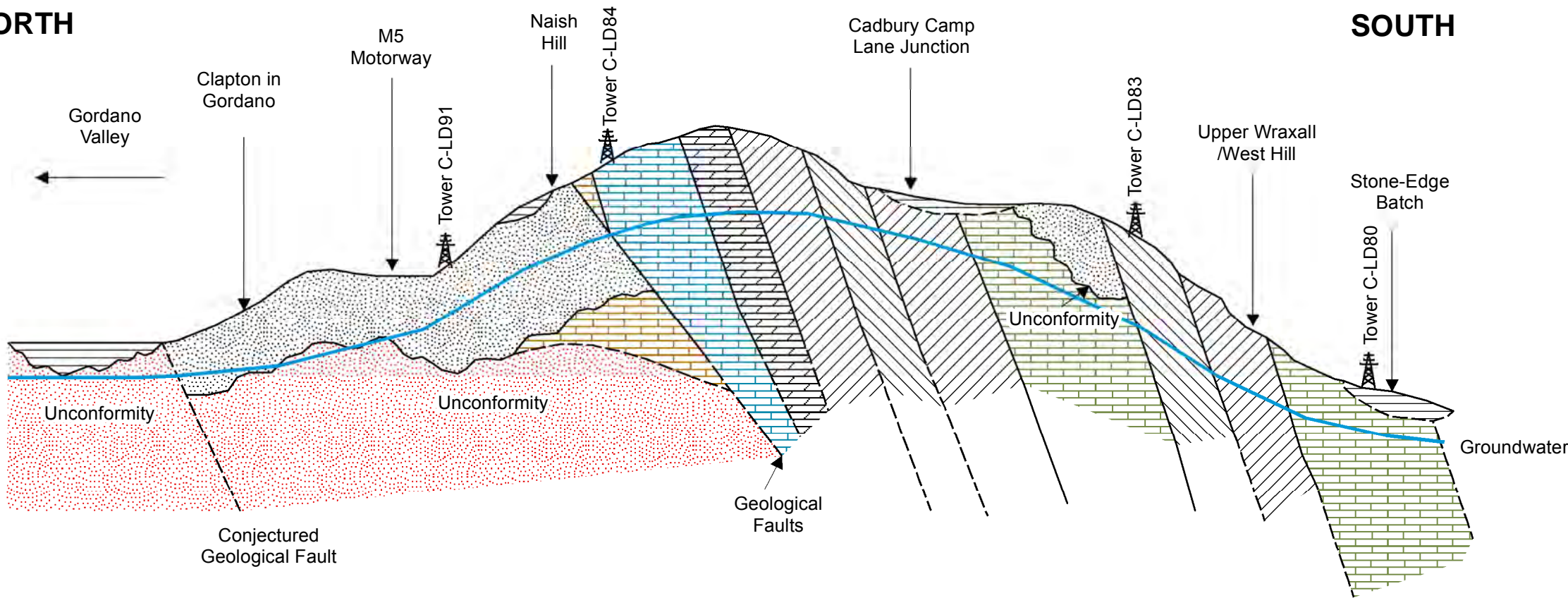




- Key
- Old Red Sandstone
  - Pennant Group
  - Mercia Mudstone
  - Dolomite
  - Goblin Combe Oolite
  - Black Rock Limestone
  - China Stone
  - Lower Limestone Shale
  - Clifton Down Limestone

NORTH

SOUTH



ON-SITE SOURCES

- General made ground (if present)
- Infilled ponds
- Minor hydrocarbon spills from farming equipment and tanks at farms
- Herbicides and pesticides associated with the agricultural use

OFF-SITE SOURCES

- General made ground (if present)
- Minor hydrocarbon spills from farming equipment and tanks at farms
- Herbicides and pesticides associated with the agricultural use
- Ironmonger and garage/MOT centre - within 100m distance
- Former quarries, pits and lime kilns - between 25m and 100m distance
- Historic Landfill - within 230m distance
- Coal shafts and pit - in excess of 750m distance

RECEPTORS

- Future site users (maintenance workers);
- Adjacent site users (public, farmers residential /commercial properties);
- Buildings and infrastructure;
- Ecological receptors;
- Groundwater beneath the site (secondary A/B aquifers) within superficial and bedrock;
- Groundwater beneath the site (principal aquifer) within limestone bedrock;
- Groundwater SPZ zone 1 (inner catchment); and
- Surface water receptors (ponds, drainage ditches, tertiary surface water features such as streams).

PATHWAYS

- Direct contact with soil through ingestion, dermal contact and inhalation of particulates;
- Ground gas and soil vapour inhalation;
- Build up of ground gases to pose explosion risk or risk of asphyxiation;
- Vertical and lateral migration of contaminants including remobilisation and leaching;
- Spills of sediment/contaminants during construction /decommissioning works into surface water receptors (e.g. surface water runoff); and
- Chemical attack of infrastructure and buildings.

POTENTIALLY COMPLETE POLLUTANT LINKAGES

- No potentially complete pollutant linkages have been identified

NATIONAL GRID (HINKLEY POINT C TO SEABANK GRID CONNECTION PROJECT - SECTION E TICKENHAM RIDGE) PRELIMINARY RISK ASSESSMENT

FIGURE 4: CONCEPTUAL SITE MODEL



National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	FIGURE No.	GIS
20897	4	A3
DRAWING No.	SCALE	ISSUE
Section E - Fig 4 - Tickenham Ridge Conceptual Site Model.mxd	1:0	C
SHEET 1 of 1		

# APPENDIX A

## SERVICE CONSTRAINTS

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1. This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for National Grid (the "client") in accordance with the terms of a contract between RSK and the "client", dated 10 May 2013. The Services were performed by RSK with the skill and care ordinarily exercised by a reasonable environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the client.
2. Other than that expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
3. Unless otherwise agreed the Services were performed by RSK exclusively for the purposes of the client. RSK is not aware of any interest of or reliance by any party other than the client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. **Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.**
4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date hereof, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off the site of asbestos, electromagnetic fields, lead paint, heavy metals, radon gas or other radioactive or hazardous materials.
7. The Services are based upon RSK's observations of existing physical conditions at the Site gained from a walk-over survey of the site together with RSK's interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The Services are also based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely. The Services clearly are limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the walk-over survey. Further RSK was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services. RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the client and RSK.
8. The phase II or intrusive environmental site investigation aspects of the Services is a limited sampling of the site at pre-determined borehole and soil vapour locations based on the operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the soil and groundwater conditions, together with the position of any current structures and underground facilities and natural and other activities on site. In addition chemical analysis was carried out for a limited number of parameters [as stipulated in the contract between the client and RSK] [based on an understanding of the available operational and historical information,] and it should not be inferred that other chemical species are not present.
9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan, but is (are) used to present the general relative locations of features on, and surrounding, the site.

## **APPENDIX B**

# **SUMMARY OF LEGISLATION AND POLICY RELATING TO CONTAMINATED LAND**

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Part IIA of the Environmental Protection Act 1990 (EPA) and its associated Contaminated Land Regulations 2000 (SI 2000/227), which came into force in England on 1 April 2000, formed the basis for the current regulatory framework and the statutory regime for the identification and remediation of contaminated land. Part IIA of the EPA 1990 defines contaminated land as ‘any land which appears to the Local Authority in whose area it is situated to be in such a condition by reason of substances in, on or under the land, that significant harm is being caused, or that there is significant possibility of significant harm being caused, or that pollution of controlled waters is being or is likely to be caused’. Controlled waters are considered to include all groundwater, inland waters and estuaries.

In August 2006, the Contaminated Land (England) Regulations 2006 (SI 2006/1380) were implemented, which extended the statutory regime to include Part IIA of the EPA as originally introduced on 1 April 2000, together with changes intended chiefly to address land that is contaminated by virtue of radioactivity. These have been replaced subsequently by the Contaminated Land (England) (Amendment) Regulations 2012, which now exclude land that is contaminated by virtue of radioactivity.

The intention of Part IIA of the EPA is to deal with contaminated land issues that are considered to cause significant harm on land that is not undergoing development (see Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance, April 2012). This document replaces Annex III of DEFRA Circular 01/2006, published in September 2006 (the remainder of this document is now obsolete).

### **Water Framework Directive (WFD)**

The Water Framework Directive 2000/60/EC is designed to:

- enhance the status and prevent further deterioration of aquatic ecosystems and associated wetlands that depend on the aquatic ecosystems
- promote the sustainable use of water
- reduce pollution of water, especially by ‘priority’ and ‘priority hazardous’ substances
- ensure progressive reduction of groundwater pollution.

The WFD requires a management plan for each river basin be developed every six years.



## **Groundwater Directive (GWD)**

The 1980 Groundwater Directive 80/68/EEC and the 2006 Groundwater Daughter Directive 2006/118/EC of the WFD are the main European legislation in place to protect groundwater. The 1980 Directive is due to be repealed in December 2013. The European legislation has been transposed into national legislation by regulations and directions to the Environment Agency.

## **Environmental Permitting Regulations (EPR)**

The Environmental Permitting (England and Wales) Regulations 2010 provide a single regulatory framework that streamlines and integrates waste management licensing, pollution prevention and control, water discharge consenting, groundwater authorisations, and radioactive substances regulation. Schedule 22, paragraph 6 of EPR 2010 states: 'the regulator must, in exercising its relevant functions, take all necessary measures - (a) to prevent the input of any hazardous substance to groundwater; and (b) to limit the input of non-hazardous pollutants to groundwater so as to ensure that such inputs do not cause pollution of groundwater.'

## **Water Resources Act (WRA)**

The Water Resources Act 1991 (Amendment) (England and Wales) Regulations 2009 updated the Water Resources Act 1991, which introduced the offence of causing or knowingly permitting pollution of controlled waters. The Act provides the Environment Agency with powers to implement remediation necessary to protect controlled waters and recover all reasonable costs of doing so.

## **Priority Substances Directive (PSD)**

The Priority Substances Directive 2008/105/EC is a 'Daughter' Directive of the WFD, which sets out a priority list of substances posing a threat to or via the aquatic environment. The PSD establishes environmental quality standards for priority substances, which have been set at concentrations that are safe for the aquatic environment and for human health. In addition, there is a further aim of reducing (or eliminating) pollution of surface water (rivers, lakes, estuaries and coastal waters) by pollutants on the list. The WFD requires that countries establish a list of dangerous substances that are being discharged and EQS for them. In England and Wales, this list is provided in the River Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010. In order to achieve the objectives of the WFD, classification schemes are used to describe where the water environment is of good quality and where it may require improvement.

## Planning Policy

Contaminated land is often dealt with through planning because of land redevelopment. This approach was documented in Planning Policy Statement: Planning and Pollution Control PPS23, which states that it remains the responsibility of the landowner and developer to identify land affected by contamination and carry out sufficient remediation to render the land suitable for use. PPS23 was withdrawn early in 2012 and has been replaced by much reduced guidance within the National Planning Policy Framework (NPPF).

The new framework has only limited guidance on contaminated land, as follows:

- *“planning policies and decisions should also ensure that:*
  - *the site is suitable for its new use taking account of ground conditions and land instability, including from natural hazards or former activities such as mining, pollution arising from previous uses and any proposals for mitigation including land remediation or impacts on the natural environment arising from that remediation;*
  - *after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990; and*
  - *adequate site investigation information, prepared by a competent person, is presented”.*


## **APPENDIX C**

### **SITE PHOTOGRAPHS**

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## PHOTOGRAPHIC LOG – Section E Tickenham Ridge

<b>Photo no.</b>  1	<b>Date:</b> June 2013	
<b>Direction photo taken:</b> Looking east		
<b>Description:</b> View of the Land Yeo at the southern end of the Tickenham Ridge		

<b>Photo No.</b>  2	<b>Date:</b> June 2013	
<b>Direction photo taken:</b> Looking west		
<b>Description:</b> View of a proposed compound site for the 132kV underground cable		




**PHOTOGRAPHIC LOG – Section E Tickenham Ridge**

<b>Photo no.</b>  3	<b>Date:</b> June 2013	
<b>Direction photo taken:</b> Looking south-east		
<b>Description:</b> View of the F and W routes north of Stone-edge Batch		

<b>Photo No.</b>  4	<b>Date:</b> June 2013	
Direction photo taken: Looking north-east		
Description: View of the small valley through which the F and W routes pass on the Tickenham Ridge		

**PHOTOGRAPHIC LOG – Section E Tickenham Ridge**

<b>Photo no.</b>  5	<b>Date:</b> June 2013	
<b>Direction photo taken:</b> Looking south		
<b>Description:</b> View of the southern part of the Tickenham Ridge		

<b>Photo No.</b>  6	<b>Date:</b> June 2013	
<b>Direction photo taken:</b> Looking south		
<b>Description:</b> Road junction between Cadbury Camp Lane, Cuckoo Lane and Whitehouse Lane		



**PHOTOGRAPHIC LOG – Section E Tickenham Ridge**

<b>Photo no.</b>  7	<b>Date:</b> June 2013	
<b>Direction photo taken:</b>  Looking west		
<b>Description:</b> View of the plateau on Tickenham Ridge and area for underground cable		

<b>Photo No.</b>  8	<b>Date:</b> June 2013	
<b>Direction photo taken:</b> Looking east		
<b>Description:</b> View of the F route on the Tickenham Ridge		


**PHOTOGRAPHIC LOG – Section E Tickenham Ridge**


<b>Photo no.</b>  9	<b>Date:</b> June 2013	
<b>Direction photo taken:</b>  Looking north		
<b>Description:</b> View over the northern side of the Tickenham Ridge across the Gordano valley		

<b>Photo No.</b>  10	<b>Date:</b> June 2013	
<b>Direction photo taken:</b> Looking south-east		
<b>Description:</b> View of the W route on the northern side of the Tickenham Ridge		



## PHOTOGRAPHIC LOG – Section E Tickenham Ridge

<b>Photo no.</b>  11	<b>Date:</b> June 2013	
<b>Direction photo taken:</b>  Looking south-east		
<b>Description:</b> View of the proposed underground cable compound site at the northern side of the Tickenham Ridge		

<b>Photo No.</b>  12	<b>Date:</b> June 2013	
<b>Direction photo taken:</b>  Looking north		
<b>Description:</b> View of the subway beneath the M5 motorway beneath which the underground cable would proceed		

## APPENDIX D

# RISK ASSESSMENT METHODOLOGY

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CLR11 outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. Under CLR11, three stages of risk assessment exist: preliminary, generic quantitative and detailed quantitative. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) pollutant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution
- likely: it is probable that an event will occur or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term
- low likelihood: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term
- unlikely: circumstances are such that it is improbable the event would occur even in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- severe: short term (acute) risk to human health likely to result in ‘significant harm’ as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in ‘Draft Circular on Contaminated Land’, DETR 2000)
- medium: chronic damage to human health (‘significant harm’ as defined in ‘Draft Circular on Contaminated Land’, DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem

- mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment
- minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the table below.

		Consequences			
		Severe	Medium	Mild	Minor
Probability	Highly likely	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low

Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- Very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required.
- High: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term.
- Moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term.
- Low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild.
- Very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.

# **APPENDIX E**

## **ENVIRONMENTAL DATABASE REPORT**

---





RSK STATS Geoconsult Ltd (Bedminster)	GroundSure	HMD-441-912071
Spring Lodge, , 172 Chester Road,	Reference:	
Cheshire,	Your Reference:	312318
Helsby, WA6 0AR	Report Date:	Jun 6, 2013
	Report Delivery	<b>xml</b>
	Method:	
	Client Email:	██████████@rsk.co.uk

## GroundSure Data

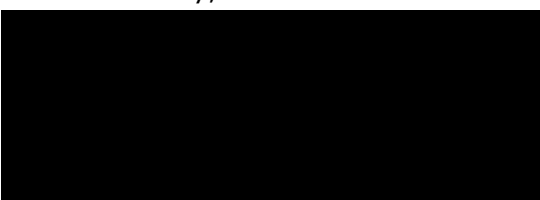
**Address: Hinkley C to Seabank grid connection project**

Dear Sir/Madam,

Thank you for placing your order with GroundSure. Please find enclosed the GroundSure Data report as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above GroundSure reference number.

Yours faithfully,



Managing Director  
Groundsure Limited

Enc.  
GroundSure Data



# GroundSure Data

Address: Hinkley C to Seabank grid connection project

Date: Jun 6, 2013

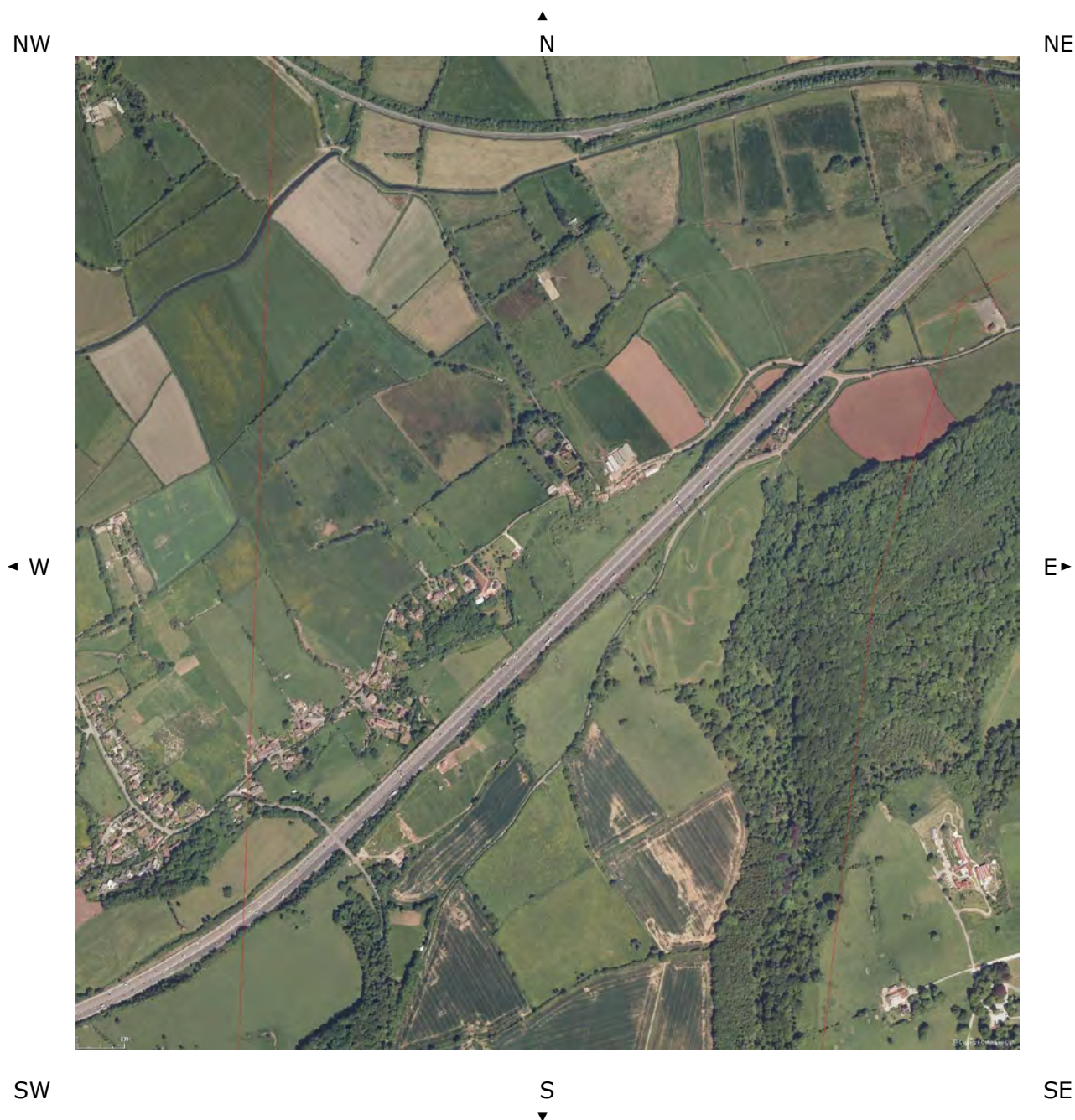
GroundSure Reference: HMD-441-912071

Your Reference: 312318

Client: RSK STATS Geoconsult Ltd (Bedminster)



# Aerial Photograph of Study Site



Site Name: Hinkley C to Seabank grid connection project  
Grid Reference: 348838,172660

Aerial photography supplied by Getmapping PLC.  
© Copyright Getmapping PLC 2003. All Rights Reserved.

**Report Reference: HMD-441-912071**

If you would like any further assistance regarding this report then please contact  
GroundSure on (T) 08444 159 000, email: [info@4c.groundsure.com](mailto:info@4c.groundsure.com)

# Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Report Section	Number of records found within (X) m of the study site boundary					
	on-site	0-50	51-250	251-500	501-1000	1000-1500
<b>1. Historical Industrial Sites</b>						
1.1 Potentially Contaminative Past Land Use						
Records of potentially contaminative past land use ( 1:10,000 scale mapping )	32	9	10	-	-	-
1.2 Additional Information – Historical Tanks ( 1:2,500,1:1,250 scale mapping )	8	0	3*	-	-	-
1.3 Additional Information – Historical Energy Features ( 1:2,500,1:1,250 scale mapping )	2	0	0*	-	-	-
1.4 Additional Information – Historical Petrol and Fuel Site Database ( 1:2,500,1:1,250 scale mapping )	0	0	0*	-	-	-
1.5 Additional Information – Historical Vehicle Repair and Garages ( 1:2,500,1:1,250 scale mapping )	0	0	0*	-	-	-
1.6 Potentially Infilled Land						
Records of potentially infilled land ( 1:10,000 scale mapping )	103	9	12*	-	-	-
*51-100m						
<b>2. Environmental Permits, Incidents and Registers</b>						
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations						
Records of historic IPC Authorisations	0	0	0	0	-	-
Records of Part A(1) and IPPC Authorised Activities	0	0	0	0	-	-
Records of Water Industry Referrals (potentially harmful discharges to the public sewer)	0	0	0	0	-	-
Records of Red List Discharge Consents (potentially harmful discharges to controlled waters)	0	0	0	0	-	-
Records of List 1 Dangerous Substances Inventory sites	0	0	0	0	-	-
Records of List 2 Dangerous Substances Inventory sites	0	0	0	0	-	-
Records of Part A(2) and Part B Activities and Enforcements	0	0	0	1	-	-
Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0	-	-
Records of Licensed Discharge Consents	7	1	1	5	-	-
Records of Planning Hazardous Substance Consents and Enforcements	0	0	0	1		
2.2 Records of COMAH and NIHHS sites	0	0	0	0	-	-
2.3 Environment Agency Recorded Pollution Incidents						
National Incidents Recording System, List 2	2	0	0	-	-	-
National Incidents Recording System, List 1	0	0	0	-	-	-
2.4 Sites Determined as Contaminated Land under Part IIA EPA 1990	0	0	0	0	-	-

## Report Reference: HMD-441-912071

If you would like any further assistance regarding this report then please contact GroundSure on (T) 08444 159 000, email: info@4c.groundsure.com

3. Landfill and Other Waste Sites	on-site	0-50	51-250	251-500	501-1000	1000-1500
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#### 3.1 Landfill Sites

Environment Agency Registered landfill Sites	0	0	0	0	0	-
Landfill Data – Operational Landfill Sites	0	0	0	0	0	-
Environment Agency Historic Landfill Sites	2	0	1	2	1	1
Landfill Data – Non-Operational Landfill Sites	1	0	0	1	0	-
BGS/DoE Landfill Site Survey	0	0	1	0	0	0
GroundSure Local Authority Landfill Sites Data	1	3	3	1	0	0

#### 3.2 Landfill and Other Waste Sites Findings

Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	-	-
Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	-	-
Environment Agency licensed Waste Sites	0	0	0	0	3	3

4. Current Land Uses	on-site	0-50	51-250	251-500	501-1000	1000-1500
----------------------	---------	------	--------	---------	----------	-----------

4.1 Current Industrial Sites Data	44	1	17	-	-	-
4.2 Records of Petrol and Fuel Sites	0	0	0	0	-	-
4.3 Underground High Pressure Oil and Gas Pipelines	1	0	0	0	-	-

5. Geology	Description
------------	-------------

5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site? \*

Yes

5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site? \*

Yes

5.3 For records of Bedrock and Solid Geology beneath the study site\* see the detailed findings section.

Source: Scale: 1:50,000 BGS Sheet 264

\* This includes an automatically generated 50m buffer zone around the site.

6. Hydrogeology and Hydrology	on-site	0-50	51-250	251-500	501-1000	1001-2000
-------------------------------	---------	------	--------	---------	----------	-----------

6.1 Are there any records of Productive Strata in the Superficial Geology within 500m of the study site?

Yes

6.2 Are there any records of Productive Strata in the Bedrock Geology within 500m of the study site?

Yes

6.3 Groundwater Abstraction Licences (within 1000m of the study site).

0 0 0 0 1 -

6.4 Surface Water Abstraction Licences (within 1000m of the study site).

0 0 0 0 2 -

6.5 Potable Water Abstraction Licences (within 2000m of the study site).

0 0 0 0 0 0

6.6 Are there any Source Protection Zones within 500m of the study site?

Yes

6.7 River Quality	on-site	0-50	51-250	251-500	501-1000	1001-1500
-------------------	---------	------	--------	---------	----------	-----------

Is there any Environment Agency information on river quality within 1500m of the study site?

No No No Yes Yes Yes

6.8 Detailed River Network entries within 500m of the site

28 5 10 28 - -

6.9 Surface water features within 250m of the study site

Yes Yes Yes - - -

7. Flooding
-------------

## Report Reference: HMD-441-912071

If you would like any further assistance regarding this report then please contact GroundSure on (T) 08444 159 000, email: info@4c.groundsure.com



7.1 Are there any Environment Agency indicative Zone 2 floodplains within 250m of the study site?	Yes
7.2 Are there any Environment Agency indicative Zone 3 floodplains within 250m of the study site?	Yes
7.3 Are there any Flood Defences within 250m of the study site?	Yes
7.4 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
7.5 Are there any areas used for Flood Storage within 250m of the study site?	No
7.6 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Very High
7.7 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	High

8. Designated Environmentally Sensitive Sites	on-site	0-50	51-250	251-500	501-1000	1001-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	1	0	3	4
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Local Nature Reserves (LNR)	0	0	0	0	1	7
8.4 Records of Special Areas of Conservation (SAC)	0	0	2	0	0	0
8.5 Records of Special Protection Areas (SPA)	0	0	2	0	4	0
8.6 Records of Ramsar sites	0	0	2	0	4	0
8.7 Records of World Heritage Sites	0	0	0	0	0	0
8.8 Records of Environmentally Sensitive Areas	0	0	0	0	0	0
8.9 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.10 Records of National Parks	0	0	0	0	0	0
8.11 Records of Nitrate Sensitive Areas	0	0	0	0	0	0

9. Additional Information	on-site	0-50	51-250	250-500
9.1 Records of mobile phone transmitters	0	0	0	0
9.2 Records of potential sites of OfCom telecommunications masts	0	0	0	0
9.3 Records of transmission lines in proximity to the study site	2	0	1	0

## 10. Natural Hazards

10.1 What is the maximum risk of natural ground subsidence?	High
10.2 Is the property in a radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is in a Radon Affected Area, as between 10 and 30% of properties are above the Action Level
Is the property in an area where radon protection measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	Full radon protective measures are necessary

## 11. Mining

11.1 Are there any coal mining areas within 75m of the study site?	Yes
11.2 What is the risk of subsidence relating to shallow mining within 150m of the study site?	Low
11.3 Are there any brine affected areas within 75m of the study site?	No

# Using this Report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between GroundSure and the Client. The document contains the following sections:

## 1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 250m.

## 2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

## 3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

## 4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure underground oil and gas pipelines.

## 5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

## 6. Hydrogeology and Hydrology

Provides information on groundwater vulnerability, soil leaching potential, abstraction licenses, Source Protection Zones (SPZ) and river quality. These searches are conducted using radii of up to 2000m.

## 7. Flooding

Provides information on surface water flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

## 8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas and World Heritage Sites. These searches are conducted using radii of up to 2000m.

## 9. Additional Information

Provides information on records of mobile phone transmitters, potential sites of OfCom telecommunication masts and overhead transmission lines up to 500m.

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### Report Reference: HMD-441-912071

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## 10. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon.

## 11. Mining

Provides information on areas of coal and shallow mining.

## 12. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, GroundSure provide a free Technical Helpline (08444 159000) for further information and guidance.

## Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

# 1. Historical Industrial Sites

## 1.1 Potentially Contaminative Uses identified from High Detail (1:10,000 scale) Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

**Records of sites with a potentially contaminative past land use within 250m of the search boundary: 51**

The following records are not represented on Mapping:

Distance [m]	Direction	Use	Date
0.0	On Site	Refuse Heaps	1969
0.0	On Site	Refuse Heap	1979
0.0	On Site	Unspecified Old Kiln	1949
0.0	On Site	Old Lime Kiln	1883
0.0	On Site	Disused Lime Kiln	1978
0.0	On Site	Old Lime Kiln	1932
0.0	On Site	Unspecified Mills	1902
0.0	On Site	Unspecified Mills	1912
0.0	On Site	Unspecified Mills	1930
0.0	On Site	Unspecified Mills	1949
0.0	On Site	Unspecified Mills	1978
0.0	On Site	Unspecified Pit	1978
0.0	On Site	Unspecified Ground Workings	1978
0.0	On Site	Unspecified Ground Workings	1902
0.0	On Site	Unspecified Disused Pit	1978
0.0	On Site	Unspecified Wharf (B)	1930
0.0	On Site	Unspecified Wharf (B)	1979
0.0	On Site	Unspecified Wharf (B)	1912
0.0	On Site	Unspecified Wharf (B)	1883
0.0	On Site	Unspecified Wharf (B)	1902
0.0	On Site	Unspecified Wharf (B)	1949
0.0	On Site	Unspecified Heap	1949
0.0	On Site	Old Lime Kiln	1883
0.0	On Site	Unspecified Heap	1949
0.0	On Site	Unspecified Pit	1902
0.0	On Site	Nursery	1978
0.0	On Site	Unspecified Heaps	1978
0.0	On Site	Unspecified Heaps	1949
0.0	On Site	Unspecified Pit	1949
0.0	On Site	Unspecified Pit	1930
0.0	On Site	Unspecified Pit	1912
0.0	On Site	Unspecified Mills (B)	1938
8.0	W	Refuse Heap	1979
8.0	W	Refuse Heap	1969
18.0	W	Unspecified Wharf (B)	1883
20.0	N	Unspecified Pit	1979
25.0	NE	Unspecified Wharf (B)	1922
28.0	NW	Unspecified Tank (B)	1949
47.0	NW	Unspecified Tank	1932
48.0	W	Refuse Heap	1979
50.0	NW	Old Lime Kiln	1883
51.0	NW	Unspecified Ground Workings	1883
56.0	W	Refuse Heap	1969
59.0	NW	Unspecified Tank	1932
64.0	NW	Unspecified Tank	1902
64.0	NW	Unspecified Tank	1949
67.0	NW	Unspecified Ground Workings	1932
112.0	S	Nursery	1978
129.0	W	Electricity Transformer Station	1969
129.0	W	Electricity Transformer Station	1979
225.0	W	Refuse Heaps	1969

## 1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

**Records of historical tanks within 100m of the search boundary:**

**11**

The following records are not represented on Mapping:

Distance (m)	Direction	Use	Date
0.0	On Site	Tank (Unspecified)	1992
0.0	On Site	Tank (Unspecified)	1884
0.0	On Site	Tank (Unspecified)	1992
0.0	On Site	Tank (Unspecified)	1932
0.0	On Site	Tank (Unspecified)	1977
0.0	On Site	Tank (Unspecified)	1992
0.0	On Site	Tank (Unspecified)	1987
0.0	On Site	Tank (Unspecified)	1975
51.0	NW	Tank (Unspecified)	1932
63.0	NW	Tank (Unspecified)	1932
71.0	NW	Tank (Unspecified)	1903

## 1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

**Records of historical energy features within 100m of the search boundary:**

**2**

The following records are not represented on Mapping:

Distance (m)	Direction	Use	Date
0.0	On Site	Electricity Sub Station	1976
0.0	On Site	Electricity Sub Station	1992

## 1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

**Records of historical petrol stations and fuel sites within 100m of the search boundary:**

**0**

Database searched and no data found.

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## 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

**Records of historical garage and motor vehicle repair sites within 100m of the search boundary: 0**

Database searched and no data found.

## 1.6 Potentially Infilled Land

**Records of Potentially Infilled Features from 1:10,000 scale mapping within 100m of the study site: 124**

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by GroundSure:

Distance [m]	Direction	Use	Date
0.0	On Site	Pond	1938
0.0	On Site	Pond	1938
0.0	On Site	Pond	1938
0.0	On Site	Pond	1938
0.0	On Site	Pond	1938
0.0	On Site	Ponds	1883
0.0	On Site	Pond	1938
0.0	On Site	Pond	1938
0.0	On Site	Pond	1883
0.0	On Site	Pond	1912
0.0	On Site	Pond	1902
0.0	On Site	Pond	1930
0.0	On Site	Ponds	1883
0.0	On Site	Cuttings	1902
0.0	On Site	Cuttings	1930
0.0	On Site	Cuttings	1938
0.0	On Site	Cuttings	1883
0.0	On Site	Cuttings	1912
0.0	On Site	Pond	1920
0.0	On Site	Pond	1938
0.0	On Site	Pond	1938
0.0	On Site	Pond	1938
0.0	On Site	Pond	1938
0.0	On Site	Unspecified Quarry	1902
0.0	On Site	Unspecified Quarry	1930
0.0	On Site	Unspecified Old Quarry	1912
0.0	On Site	Water Body	1978
0.0	On Site	Cuttings	1978
0.0	On Site	Cuttings	1978
0.0	On Site	Ponds	1949
0.0	On Site	Pond	1883
0.0	On Site	Fish Pond	1949
0.0	On Site	Pond	1978
0.0	On Site	Pond	1883
0.0	On Site	Unspecified Pit	1978
0.0	On Site	Unspecified Quarry	1883
0.0	On Site	Water Body	1978
0.0	On Site	Pond	1902
0.0	On Site	Unspecified Quarry	1949
0.0	On Site	Unspecified Quarries	1902
0.0	On Site	Unspecified Quarry	1883
0.0	On Site	Unspecified Pit	1949
0.0	On Site	Unspecified Quarry	1978
0.0	On Site	Unspecified Quarry	1949
0.0	On Site	Unspecified Quarry	1949
0.0	On Site	Unspecified Quarry	1883

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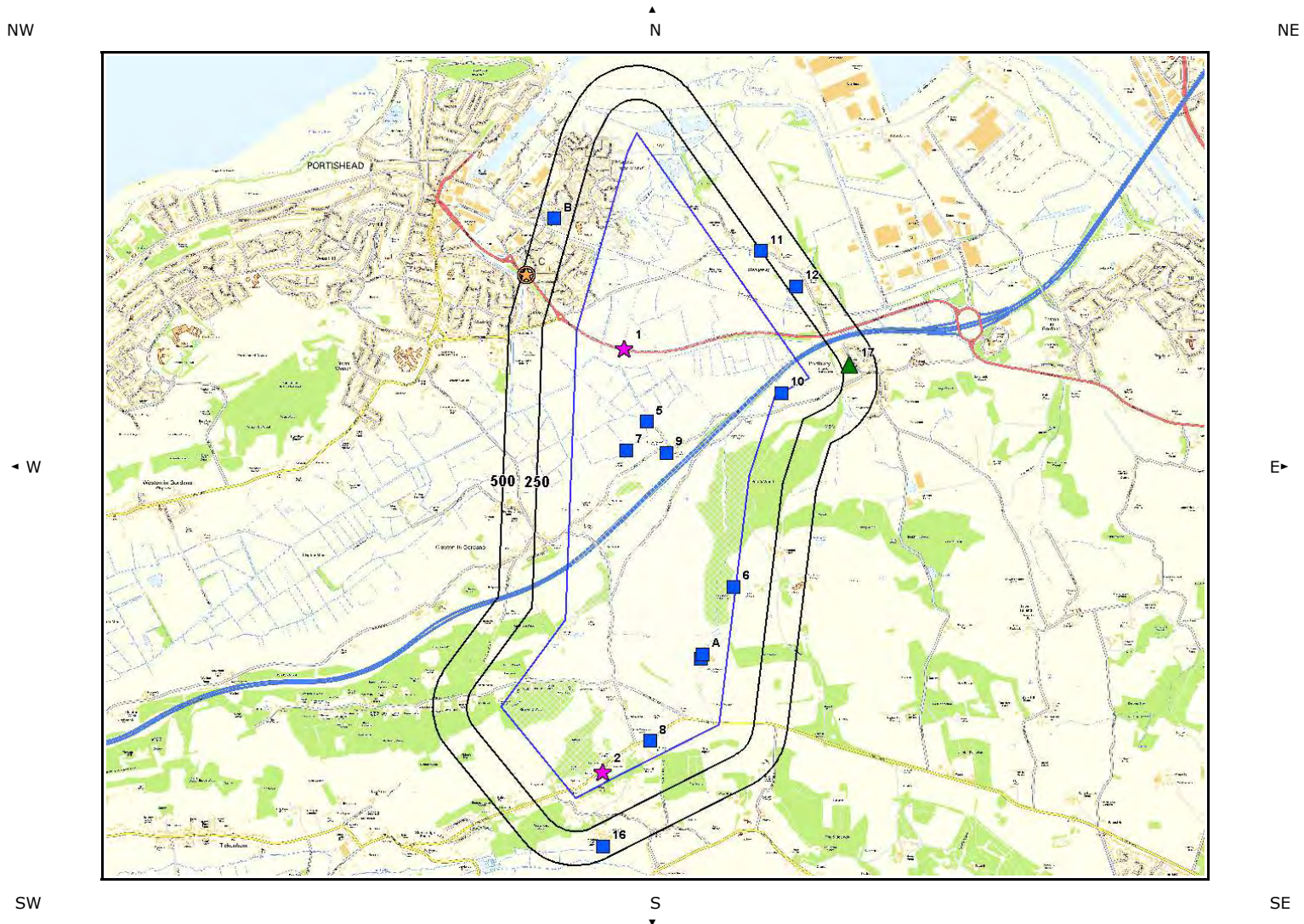
0.0	On Site	Cuttings	1978
0.0	On Site	Unspecified Quarry	1883
0.0	On Site	Unspecified Quarry	1949
0.0	On Site	Unspecified Quarries	1902
0.0	On Site	Unspecified Quarry	1883
0.0	On Site	Cuttings	1949
0.0	On Site	Pond	1949
0.0	On Site	Ponds	1949
0.0	On Site	Pond	1902
0.0	On Site	Pond	1902
0.0	On Site	Pond	1902
0.0	On Site	Pond	1932
0.0	On Site	Old Marl Pit	1949
0.0	On Site	Pond	1902
0.0	On Site	Pond	1922
0.0	On Site	Unspecified Quarry	1932
0.0	On Site	Unspecified Quarry	1902
0.0	On Site	Cuttings	1922
0.0	On Site	Pond	1932
0.0	On Site	Cuttings	1979
0.0	On Site	Fish Pond	1932
0.0	On Site	Pond	1902
0.0	On Site	Unspecified Old Quarries	1902
0.0	On Site	Unspecified Old Quarries	1902
0.0	On Site	Unspecified Pit	1930
0.0	On Site	Unspecified Pit	1902
0.0	On Site	Unspecified Ground Workings	1902
0.0	On Site	Refuse Heaps	1969
0.0	On Site	Refuse Heap	1979
0.0	On Site	Pond	1938
0.0	On Site	Pond	1938
0.0	On Site	Unspecified Pit	1912
0.0	On Site	Unspecified Heaps	1978
0.0	On Site	Unspecified Heaps	1949
0.0	On Site	Unspecified Disused Pit	1978
0.0	On Site	Unspecified Ground Workings	1978
0.0	On Site	Pond	1932
0.0	On Site	Unspecified Quarry	1932
0.0	On Site	Unspecified Quarry	1932
0.0	On Site	Unspecified Quarry	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Unspecified Wharf (B)	1979
0.0	On Site	Unspecified Quarry	1932
0.0	On Site	Old Marl Pit	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Unspecified Wharf (B)	1949
0.0	On Site	Unspecified Heap	1949
0.0	On Site	Unspecified Heap	1949
0.0	On Site	Unspecified Wharf (B)	1930
0.0	On Site	Unspecified Wharf (B)	1912
0.0	On Site	Unspecified Wharf (B)	1883
0.0	On Site	Unspecified Wharf (B)	1902
8.0	W	Refuse Heap	1969
8.0	W	Refuse Heap	1979
18.0	NE	Cuttings	1883
18.0	W	Unspecified Wharf (B)	1883
20.0	N	Unspecified Pit	1979
25.0	NE	Unspecified Wharf (B)	1922
42.0	N	Water Body	1969
46.0	NW	Unspecified Quarry	1902
48.0	W	Refuse Heap	1979
51.0	NE	Pond	1938
51.0	NW	Unspecified Ground Workings	1883
52.0	NE	Pond	1938
56.0	W	Refuse Heap	1969
64.0	SW	Pond	1932
67.0	NW	Unspecified Ground Workings	1932
78.0	NE	Pond	1938
79.0	NE	Water Body	1979
90.0	W	Unspecified Quarry	1930
90.0	W	Unspecified Old Quarry	1902
90.0	W	Unspecified Quarry	1912
91.0	W	Unspecified Quarry	1883

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## 2. Environmental Permits, Incidents and Registers Map



Authorisations, Incidents and Registers Legend



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	Recorded Pollution Incident		RAS 3 & 4 Authorisations
	Site Outline		Part A(1) Authorised Processes and Historic IPC Authorisations
	Dangerous Substances (List 1)		Part A(2) and Part B Authorised Processes
	Dangerous Substances (List 2)		COMAH / NIHHS Sites
	Water Industry Referrals		Sites Determined as Contaminated Land
	Licenced Discharge Consents		Hazardous Substance Consents and Enforcements
	Red List Discharge Consents		

## 2.Environmental Permits, Incidents and Registers

### 2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

**Records of historic IPC Authorisations within 500m of the study site:** **0**

Database searched and no data found.

**Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:** **0**

Database searched and no data found.

**Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:** **0**

Database searched and no data found.

**Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:** **0**

Database searched and no data found.

**Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:** **0**

Database searched and no data found.

**Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:** **0**

Database searched and no data found.

**Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:** **1**

The following Part A(2) and Part B Activities are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance [m]	Direction	NGR	Details
17	305.0	E	349792, 175310	Address: Priory Dry Cleaning And Laundry, Unit10,higgins Industrial Estate,station Road,portbury,bs207tn Process: Dry Cleaners Status: Historical Permit Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified



**Records of Category 3 or 4 Radioactive Substance Licences within 500m of the study site:**
**0**

Database searched and no data found.

**Records of Licensed Discharge Consents within 500m of the study site:**
**14**

The following Licensed Discharge Consents records are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance [m]	Direction	NGR	Details
3A	0.0	On Site	348710, 173180	Address: Moat Farm, Wraxall, Bristol Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 071125 Permit Version: 1 Receiving Water: Soakaway Status: New Consent, By Application (wra 91, Section 113 & Sched 12) Issue date: - Effective Date: - Revocation Date: -
4A	0.0	On Site	348700, 173150	Address: Moat House Farm, Wraxall, Bristol Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 072207 Permit Version: 1 Receiving Water: Soakaway Status: New Consent, By Application (wra 91, Section 113 & Sched 12) Issue date: 28/4/1993 Effective Date: 21/4/1993 Revocation Date: -
5	0.0	On Site	348300, 174900	Address: Caswell Farm(portishead), Clapton In Gordano, Portishead, Bristol, Avon Effluent Type: Agriculture - Arable Farming Permit Number: 080859 Permit Version: 1 Receiving Water: Portbury Ditch Status: Revoked (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: - Effective Date: - Revocation Date: 8/11/2006
6	0.0	On Site	348940, 173680	Address: Charlton Farm(bristol), Wraxall, Bristol, Avon Effluent Type: Agriculture - Arable Farming Permit Number: 081241 Permit Version: 1 Receiving Water: - Status: Revoked - Appeal Period ( Water Act 1989 Sched 12, 6 & 8) Issue date: - Effective Date: 23/4/1974 Revocation Date: 27/9/1994
7	0.0	On Site	348150, 174690	Address: Caswell Barns, Caswell Lane, Clapton-in-gordano, Bristol Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 070744 Permit Version: 1 Receiving Water: Soakaway Status: Lapsed Under Schedule 23 Environment Act 1995 Issue date: - Effective Date: 17/2/1989 Revocation Date: 1/10/1996
8	0.0	On Site	348330, 172540	Address: Hillside Nurseries, West Hill, Wraxall, Avon Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 070209 Permit Version: 1 Receiving Water: Soakaway Status: New Consent, By Application (wra 91, Section 88) Issue date: - Effective Date: 19/5/1986 Revocation Date: -
9	0.0	On Site	348450, 174670	Address: Caswell Barns, Caswell Lane, Clapton-in-gordano, Bristol Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 070716 Permit Version: 1 Receiving Water: Soakaway Status: Lapsed Under Schedule 23 Environment Act 1995 Issue date: - Effective Date: 17/2/1989 Revocation Date: 1/10/1996
10	6.0	SE	349290, 175110	Address: Gordano Rugby Club, Caswell Lane, Portbury, Bristol, Avon Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 070269 Permit Version: 1 Receiving Water: Soakaway Status: New Consent, By Application (wra 91, Section 88) Issue date: - Effective Date: - Revocation Date: -
11	243.0	NE	349140, 176160	Address: New Dwelling, Sheepway, Portbury, Bristol, Avon Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 071913 Permit Version: 1 Receiving Water: Soakaway Status: New Consent, By Application (wra 91, Section 113 & Sched 12) Issue date: - Effective Date: 9/4/1992 Revocation Date: -

12	307.0	NE	349400, 175900	Address: Shipway Farm, Portbury, Bristol Effluent Type: Agriculture - Arable Farming Permit Number: 080706 Permit Version: 1	Receiving Water: Trib Of Portbury Ditch Status: Revoked (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: - Effective Date: 24/7/1968 Revocation Date: 4/12/2001
13B	384.0	W	347620, 176400	Address: Portishead Town Pumping Station, Portishead, Bristol Effluent Type: Sewage Discharges - Pumping Station - Water Company Permit Number: 070308 Permit Version: 1	Receiving Water: Portbury Ditch,trib Status: New Consent, By Application (wra 91, Section 88) Issue date: - Effective Date: 15/7/1987 Revocation Date: 31/3/2008
14B	384.0	W	347620, 176400	Address: Portishead Town Pumping Station, Portishead, Bristol Effluent Type: Sewage Discharges - Sewer Storm Overflow - Water Company Permit Number: 070308 Permit Version: 3	Receiving Water: Portbury Ditch,trib Status: Modified - (wra 91 Sched 10 - As Amended By Env Act 1995) Issue date: 22/1/2008 Effective Date: 1/4/2008 Revocation Date: -
15B	384.0	W	347620, 176400	Address: Portishead Town Pumping Station, Portishead, Bristol Effluent Type: Sewage Discharges - Pumping Station - Water Company Permit Number: 070308 Permit Version: 2	Receiving Water: Portbury Ditch,trib Status: Modified - (wra 91 Sched 10 - As Amended By Env Act 1995) Issue date: 25/2/2005 Effective Date: 1/4/2010 Revocation Date: 1/4/2008
16	412.0	SE	347980, 171760	Address: Birdcombe Farm(Bristol), Wraxall, Bristol, Avon Effluent Type: Agriculture - Arable Farming Permit Number: 081239 Permit Version: 1	Receiving Water: Trib Of River Land Yeo Status: Transferred From R(pp)a 1951-1961 Issue date: - Effective Date: 23/4/1974 Revocation Date: -

## Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site: 1

The following records are represented as polygons on the Industrial Sites and Processes map.

ID	Distance [m]	Direction	Application Reference Number	Application Status	Application Date	Address	Details	Details of Enforcement Action
19C	473.0	W	96/0001/HA Z	Approved	11/01/1997	Gordano Gate Development, Wyndham Way, Portishead, Somerset, BS20 7GG	Licence To Store Up To 105, 000kg Of Liquid Petroleum Gas Canisters Of Up To 0.45kgs	Enforcement: No Enforcements Notified Date of Enforcement: No enforcement Notified Comment: No enforcement Notified

## 2.2 Dangerous or Hazardous Sites

### Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

## 2.3 Environment Agency Recorded Pollution Incidents

### Records of National Incidents Recording System, List 2 within 250m of the study site: 2

The following NIRS List 2 records are represented as points on the Authorisations, Incidents and Registers Map:

ID	Distance [m]	Direction	NGR	Details
Report Reference: HMD-441-912071				

1	0.0	On Site	348130, 175440	Incident Date: 27/5/2002 Incident Identification: 81500 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
2	0.0	On Site	347973, 172310	Incident Date: 4/9/2003 Incident Identification: 187558 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

#### Records of National Incidents Recording System, List 1 within 250m of the study site:

0

Database searched and no data found.

## 2.4 Sites Determined as Contaminated Land under Part IIA EPA 1990<sup>1</sup>

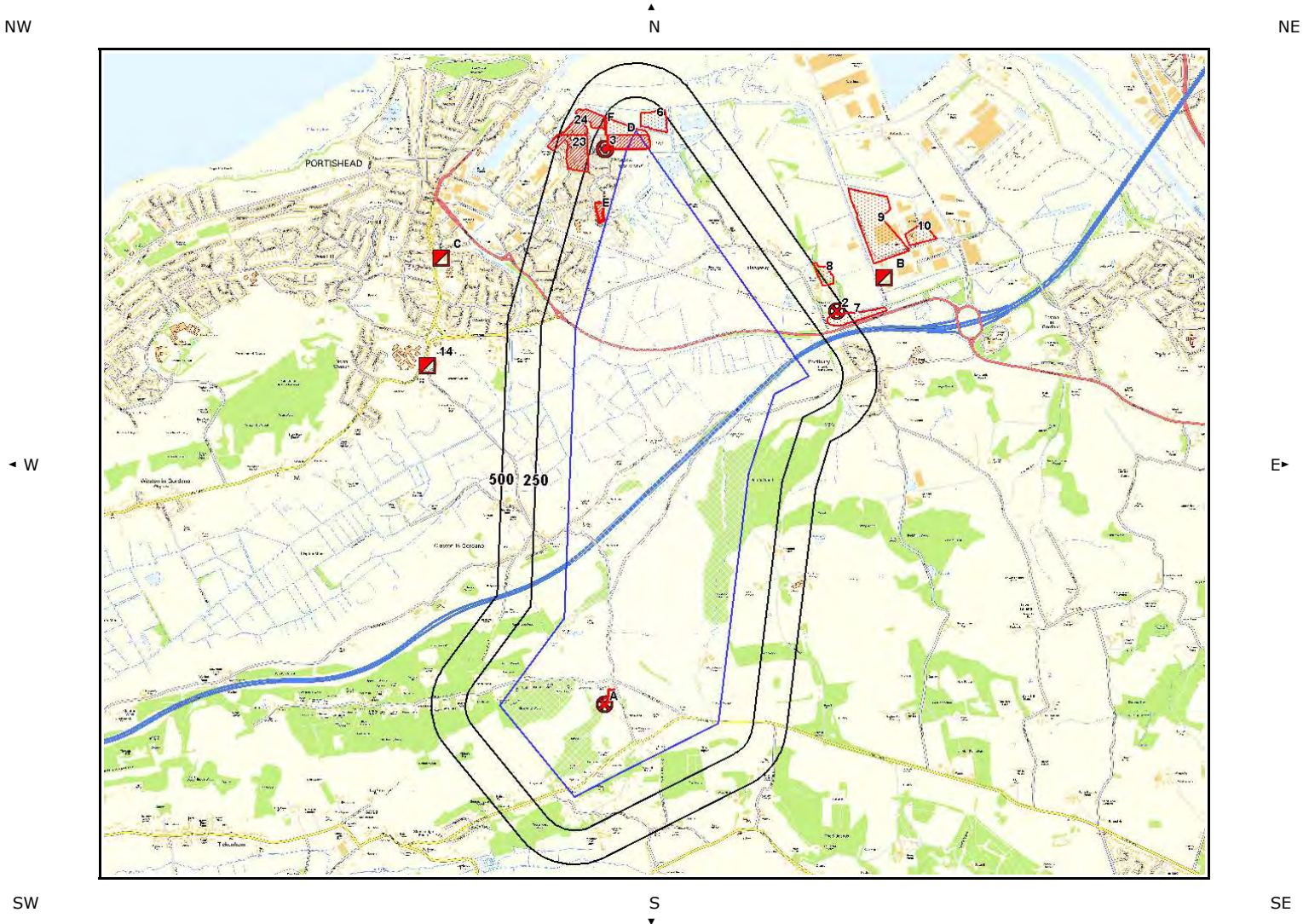
#### How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site?

0

Database searched and no data found.

<sup>1</sup>Further information on sites that have been determined under the Contaminated Land Regime is maintained by Local Authorities under Section 78R of the Environmental Protection Act 1990. Information should be available on both sites currently determined as Contaminated Land and Special Sites.




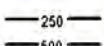


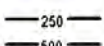







### 3. Landfill and Other Waste Sites Map



Landfill & Other Waste Sites Legend

Mapping sourced from  
**Ordnance Survey**

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- |  |   |  |
|--|---|--|
|  Site Outline       |  E.A. Active Landfill                  |  Operational Waste Treatment Licence |
|  Search Buffers (m) |  E.A. Historic Landfill (Area Data)    |  Closed Waste Treatment Licence      |
|  Search Buffers (m) |  E.A. Historic Landfill (Point Data)   |  REGIS Waste Licence                 |
|  |  BGS / DoE Survey Landfill             |  Operational Landfill                |
|  |  Local Authority Landfill (Area Data)  |  Closed Landfill                     |
|  |  Local Authority Landfill (Point Data) |  |



## 3. Landfill and Other Waste Sites

### 3.1 Landfill Sites

**Records from Environment Agency landfill data within 1000m of the study site:** 0

Database searched and no data found.

**Records of operational landfill sites sourced from Landmark within 1000m of the study site:** 0

Database searched and no data found.

**Records of Environment Agency historic landfill sites within 1500m of the study site:** 7

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	NGR	Details
4A	0.0	On Site	348000, 172800	Site Address: Old Quarry to The Rear Of Hunters Croft, Cuckoo Lane, Wraxall, Bristol, Avon Waste Licence: Yes Site Reference: L/WG/T/93 Waste Type: Inert, Industrial Regis Reference: - Licence Issue: 18-Nov-1980 Licence Surrendered: 31-Dec-1983 Licence Hold Address: Hunters Croft, Cuckoo Lane, Wraxall, Bristol Operator: -
5D	0.0	On Site	348100, 176900	Site Address: Central Electricity Generating Board, Portishead, Bristol, Avon Waste Licence: - Site Reference: - Waste Type: Industrial Regis Reference: - Licence Issue: Licence Surrendered: Licence Hold Address: - Operator: Central Electricity Generating Board
6	53.0	NE	348300, 177100	Site Address: Portishead Power Station, Portishead, Bristol Waste Licence: Yes Site Reference: L/WG/T/36D Waste Type: Inert, Industrial, Special Regis Reference: - Licence Issue: 16-Oct-1978 Licence Surrendered: 10-Mar-1992 Licence Hold Address: Bedminster Down, Bridgewater Road, Bristol Operator: -
7	341.0	NE	349800, 175600	Site Address: Priory Farm, Portbury, Bristol Waste Licence: Yes Site Reference: L/WG/T/189 Waste Type: Inert, Industrial, Commercial, Household Regis Reference: - Licence Issue: 30-Sep-1987 Licence Surrendered: 27-Sep-1992 Licence Hold Address: Great Western House, Station Approach, Taunton, Somerset Operator: -
8	467.0	NE	349600, 175900	Site Address: Elm Tree Farm, Portbury Waste Licence: Yes Site Reference: L/WG/T/52B Waste Type: Inert Regis Reference: - Licence Issue: 26-Apr-1979 Licence Surrendered: 29-Feb-1988 Licence Hold Address: Elm Tree Farm, Portbury, Bristol Operator: -
9	868.0	NE	349900, 176300	Site Address: Future Development Area Royal Portbury Dock, Bristol Waste Licence: Yes Site Reference: L/WG/T/124 Waste Type: Inert, Industrial Regis Reference: - Licence Issue: 10-May-1982 Licence Surrendered: 02-Nov-1992 Licence Hold Address: St Andrews Road, Avonmouth, Bristol Operator: -
10	1155.0	NE	350300, 176200	Site Address: Royal Portbury Dock, Proposed Development Area Adjacent to Dock Road, Bristol, Avon Waste Licence: Yes Site Reference: S/WG/T/6 Waste Type: Inert Regis Reference: - Licence Issue: 10-May-1978 Licence Surrendered: Licence Hold Address: - Operator: -

**Records of non-operational landfill sites sourced from Landmark within 1000m of the study site:** 2

Report Reference: [HMD-441-912071](#)

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	NGR	Details
1A	0.0	On Site	348000, 172800	Site Address: Hunters Croft, Cuckoo Lane, Wraxall, BRISTOL, Avon Landfill Licence: 01FADHAL Agency Reference: Waste Type: Non-Hazardous Waste Description: Non-Hazardous Landfill Known Restrictions: No known restriction on source of waste Record Date: 01-Nov-1980 Transfer Date: Modification Date: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - South West Region - North Wessex Area (Bridgwater) Size: Undefined
2	437.0	NE	349700, 175700	Site Address: Priory Farm (adj.A396), Portbury, BRISTOL, Avon Landfill Licence: 01FAKNAL Agency Reference: Waste Type: Putrescible Waste Description: Putrescible Landfill Known Restrictions: No known restriction on source of waste Record Date: 30-Sep-1987 Transfer Date: 31-Mar-1988 Modification Date: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - South West Region - North Wessex Area (Bridgwater) Size: Undefined

#### Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

1

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	NGR	Details
3	155.0	W	348000.0, 176900.0	Address: CEGB Ashlands Perbury Wharf, Portishead, Bristol BGS Number: 1280.0 Risk: No risk to aquifer Waste Type: N/A

#### Records of Local Authority landfill sites within 1500m of the study site:

8

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	Site Address	Source	Data Type
17D	0.0	On Site	Refuse Tip	1966 mapping	Polygon
18E	10.0	W	Refuse Tip	1967 mapping	Polygon
19E	10.0	W	Refuse Tip	1973 mapping	Polygon
20E	24.0	W	Refuse Tip	1985 mapping	Polygon
21F	178.0	NW	Refuse Tip	1967 mapping	Polygon
22F	207.0	NW	Refuse Tip	1966 mapping	Polygon
23	225.0	W	Refuse Tip	1967 mapping	Polygon
24	311.0	NW	Refuse Tip	1966 mapping	Polygon

## 3.2 Other Waste Sites

#### Records of operational waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

#### Records of non-operational waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

#### Records of Environment Agency licensed waste sites within 1500m of the study site:

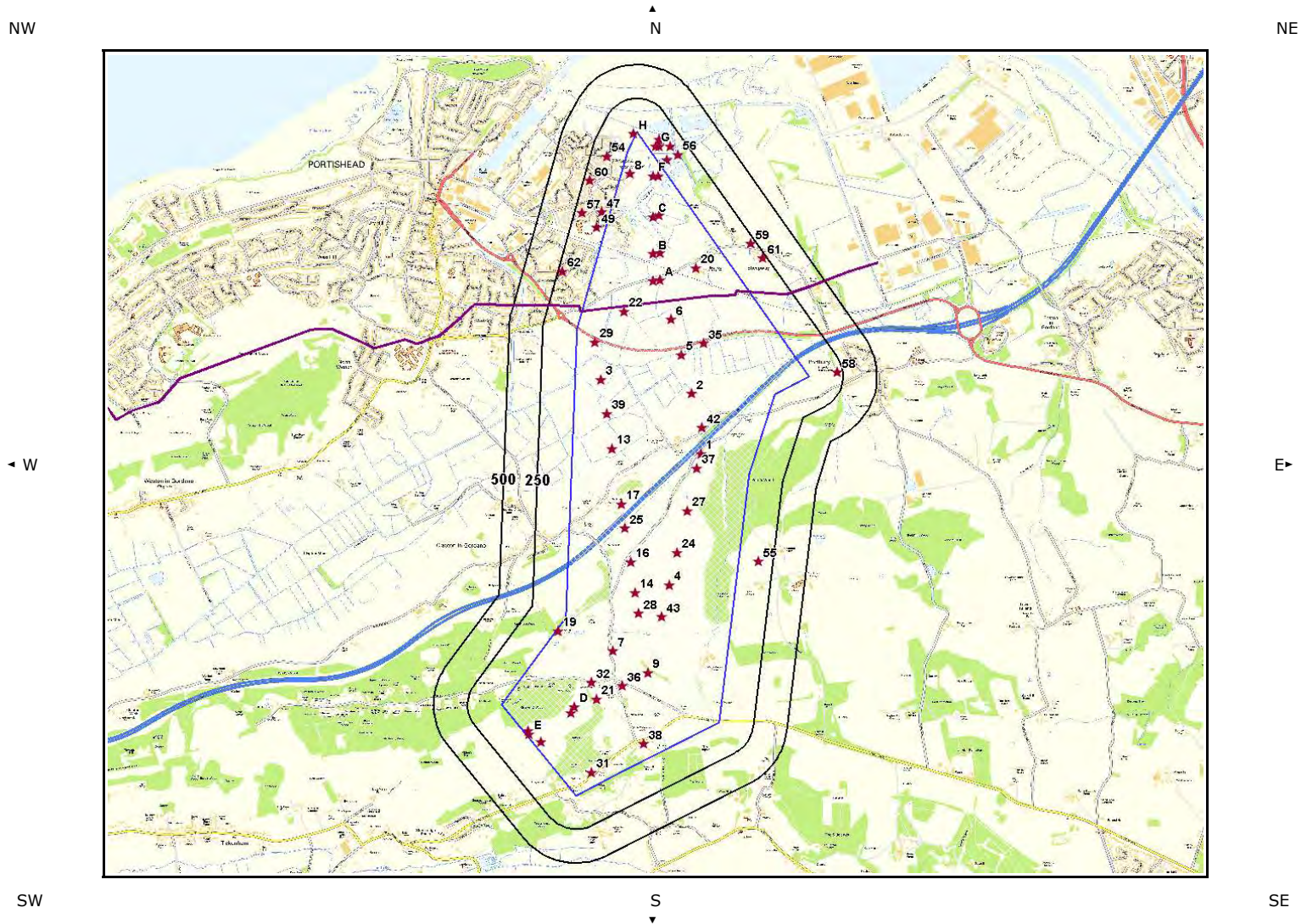
6

Report Reference: HMD-441-912071

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	NGR	Details
11B	867.0	NE	350050, 175950	Site Address: A Gas Waste Refrigerant Recovery Facility, Banyard Road, Portbury West, Bristol, Avon, BS20 7XH Type: Physical Treatment Facility Size: < 25000 tonnes Regis Licence Number: AGA002 Operator: A - Gas ( U K ) Ltd Surrendered Date: - Waste Management licence No: 26163 Annual Tonnage: 135.0 Issue Date: 18/07/2005 Expiry Date: - Effective Date: - Status: Modified Modified: 26/04/2012 Site Name: A - Gas Waste U K Ltd Cancelled Date: - Correspondence Address: -, -
12B	867.0	NE	350050, 175950	Site Address: Banyard Road, Portbury West, Bristol, BS20 7XH Type: Physical Treatment Facility Size: < 25000 tonnes Regis Licence Number: AGA002 Operator: A-gas ( U K ) Ltd Surrendered Date: - Waste Management licence No: 26163 Annual Tonnage: 0.0 Issue Date: 18/07/2005 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: A-gas Waste Refrigerant Recovery Facility Cancelled Date: - Correspondence Address: -, Banyard Road, Portbury West, Bristol, BS20 7XH
13B	867.0	NE	350050, 175950	Site Address: A Gas ( U K ) Ltd, Banyard Road, Portbury West, Bristol, Avon, BS20 7XH Type: Physical Treatment Facility Size: < 25000 tonnes Regis Licence Number: AGA002 Operator: A - Gas ( U K ) Ltd Surrendered Date: - Waste Management licence No: 26163 Annual Tonnage: 135.0 Issue Date: 18/07/2005 Expiry Date: - Effective Date: - Status: Modified Modified: 24/08/2012 Site Name: A - Gas ( U K ) Ltd Cancelled Date: - Correspondence Address: -, -
14	1076.0	W	346700, 175300	Site Address: Clapton Lane, Land / Premises At, Clapton Lane, Portishead, Bristol, Avon, BS20 7RA Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Regis Licence Number: FOW334 Operator: Fowler RW Surrendered Date: - Waste Management licence No: 27258 Annual Tonnage: 5000.0 Issue Date: 01/11/1996 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Clapton Lane Metal Recycling Site Cancelled Date: - Correspondence Address: -, -
15C	1092.0	W	346800, 176100	Site Address: Albert Road C A Site, Albert Road, Portishead, Bristol, Avon Type: Household Waste Amenity Site Size: < 25000 tonnes Regis Licence Number: NOR289 Operator: North Somerset Council Surrendered Date: 06/07/2000 Waste Management licence No: 27185 Annual Tonnage: 20000.0 Issue Date: 01/04/1996 Expiry Date: - Effective Date: - Status: Surrendered Modified: - Site Name: Albert Road C A Site Cancelled Date: - Correspondence Address: -, -
16C	1092.0	W	346800, 176100	Site Address: Albert Road C A Site, Albert Road C A Site, Albert Road, Portishead, Bristol, Avon Type: Household Waste Amenity Site Size: Unknown Regis Licence Number: NOR289 Operator: North Somerset Council Surrendered Date: - Waste Management licence No: 27185 Annual Tonnage: 0.0 Issue Date: 01/04/1996 Expiry Date: - Effective Date: - Status: Surrendered Modified: - Site Name: S U R R E N D E R E D Cancelled Date: - Correspondence Address: Town Hall, Town Hall, Weston - Super - Mare, Avon, BS23 1UJ

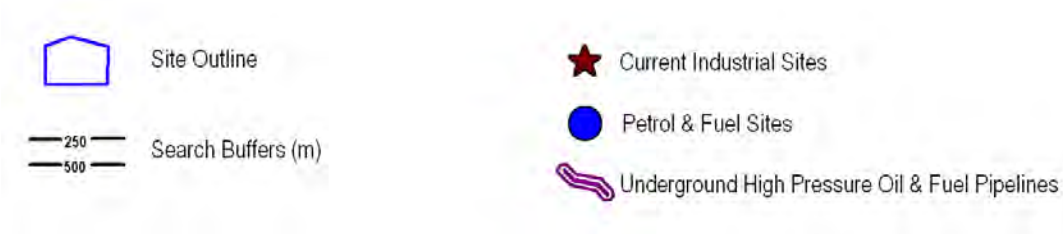
## 4. Current Land Use Map



Current Land Use Legend



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## 4. Current Land Uses

### 4.1 Current Industrial Data

**Records of potentially contaminative industrial sites within 250m of the study site:**

**62**

The following records are represented as points on the Current Land Uses map.

ID	Distance [m]	Direction	Company	Address	Activity	Category
1	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
2	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
3	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
4	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
5	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
6	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
7	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
8	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
9	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
10 A	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
11 A	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
12 F	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
13	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
14	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
15 D	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
16	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
17	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
18 B	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
19	0.0	On Site	Intelligent Energy Saving	Naish Barn, Naish Hill, Clapton In Gordano, Bristol, BS20 7RZ	Electronic Equipment	Industrial Products
20	0.0	On Site	C M H Crossman	Shipway Gate Farm, Sheepway, Portbury, Bristol, BS20 7TB	Livestock Farming	Farming
21	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
22	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
23 E	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
24	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
25	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
26 C	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
27	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
28	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
29	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
30 B	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
31	0.0	On Site	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
32	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities

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33 C	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
34 D	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
35	0.0	On Site	Outfall	BS20	Waste Storage, Processing and Disposal	Infrastructure and Facilities
36	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
37	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
38	0.0	On Site	Tank	BS48	Tanks (Generic)	Industrial Features
39	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
40 E	0.0	On Site	Lime Kiln (Disused)	BS48	Lime Kilns	Industrial Features
41 E	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
42	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
43	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
44 F	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
45 H	18.0	NW	Pylon	BS20	Electrical Features	Infrastructure and Facilities
46 G	53.0	NE	Pylon	BS20	Electrical Features	Infrastructure and Facilities
47	59.0	W	Refuse Tip (Disused)	BS20	Refuse Disposal Facilities	Infrastructure and Facilities
48 G	63.0	NE	Portbury Wharf	BS20	Moorings and Unloading Facilities	Water
49	64.0	W	Electricity Sub Station	BS20	Electrical Features	Infrastructure and Facilities
50 G	73.0	NE	Electricity Sub Station	BS20	Electrical Features	Infrastructure and Facilities
51 H	96.0	NW	Electricity Sub Station	BS20	Electrical Features	Infrastructure and Facilities
52 G	104.0	NE	Pylon	BS20	Electrical Features	Infrastructure and Facilities
53 G	137.0	NE	Pylon	BS20	Electrical Features	Infrastructure and Facilities
54	137.0	W	Pylon	BS20	Electrical Features	Infrastructure and Facilities
55	143.0	E	Sheep Dip	BS48	Sheep Dips and Washes	Farming
56	149.0	NE	Pylon	BS20	Electrical Features	Infrastructure and Facilities
57	197.0	W	P T Flooring	18, Rosemary Crescent, Portishead, Bristol, BS20 7JT	Construction Completion Services	Construction Services
58	204.0	E	A1rcon Ltd	Unit 12 Priory Farm Trading Estate, Station Road, Portbury, Bristol, BS20 7TN	Construction Completion Services	Construction Services
59	207.0	NE	Institute of Agricultural Management	Portbury House, Sheepway, Portbury, Bristol, BS20 7TE	Agricultural Contractors	Contract Services
60	209.0	W	Electricity Sub Station	BS20	Electrical Features	Infrastructure and Facilities
61	216.0	NE	Pump	BS20	Water Pumping Stations	Industrial Features
62	221.0	W	Electricity Sub Station	BS20	Electrical Features	Infrastructure and Facilities

## 4.2 Petrol and Fuel Sites

**Records of petrol or fuel sites within 500m of the study site:**

**0**

Database searched and no data found.

## 4.3 Underground High Pressure Oil and Gas Pipelines

### Records of high pressure underground pipelines within 500m of the study site:

**1**

The following Underground High Pressure Oil and Gas pipeline records provided by Linewatch are represented as linear features on the Current Land Use map:

ID	Distance [m]	Direction	Address	Operator	Telephone
63	0.0	On Site	GPSS, PO Box 7273, Ashby De La Zouch, LE65 2BY	GPSS Aldermaston pipelines	0845 070 1245

## 5. Geology

### 5.1 Artificial Ground and Made Ground

The database has been searched on site, including a 50m buffer.

LEX Code	Description	Rock Type
WGR-OPEN	WORKED GROUND (UNDIVIDED)	VOID
MGR-MGRD	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

### 5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
TFD-CLSI	TIDAL FLAT DEPOSITS	CLAY AND SILT
HEAD-CSSG	HEAD	CLAY, SILT, SAND AND GRAVEL
HEAD-CSSG	HEAD	CLAY, SILT, SAND AND GRAVEL
PEAT-P	PEAT	PEAT
RTD1-SAGR	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
HEAD-CSSG	HEAD	CLAY, SILT, SAND AND GRAVEL

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

### 5.3 Bedrock and Solid Geology

The database has been searched on site, including a 50m buffer.

LEX Code	Description	Rock Type
PES-SDST	PENNANT SANDSTONE FORMATION	SANDSTONE
MMMF-CONG	MERCIA MUDSTONE GROUP (MARGINAL FACIES)	CONGLOMERATE
MMMF-CONG	MERCIA MUDSTONE GROUP (MARGINAL FACIES)	CONGLOMERATE
MMMF-CONG	MERCIA MUDSTONE GROUP (MARGINAL FACIES)	CONGLOMERATE
GUO-OOLM	GULLY OOLITE FORMATION	OIDAL LIMESTONE
AVO-LMST	AVON GROUP	LIMESTONE
MMMF-CONG	MERCIA MUDSTONE GROUP (MARGINAL FACIES)	CONGLOMERATE
CDM-DLMD	CLIFTON DOWN MUDSTONE FORMATION	DOLOMITE-MUDSTONE
BRL-LMST	BLACK ROCK LIMESTONE SUBGROUP	LIMESTONE
AVO-MDLM	AVON GROUP	MUDSTONE AND LIMESTONE, INTERBEDDED
BRL-DLDO	BLACK ROCK LIMESTONE SUBGROUP	DOLOMITISED LIMESTONE AND DOLOMITE
AVO-LMST	AVON GROUP	LIMESTONE
GUO-OOLM	GULLY OOLITE FORMATION	OIDAL LIMESTONE
CDM-DLMD	CLIFTON DOWN MUDSTONE FORMATION	DOLOMITE-MUDSTONE
BRL-DLDO	BLACK ROCK LIMESTONE SUBGROUP	DOLOMITISED LIMESTONE AND DOLOMITE
BRL-DLDO	BLACK ROCK LIMESTONE SUBGROUP	DOLOMITISED LIMESTONE AND DOLOMITE
GUO-OOLM	GULLY OOLITE FORMATION	OIDAL LIMESTONE
BRL-LMST	BLACK ROCK LIMESTONE SUBGROUP	LIMESTONE
CDM-DLMD	CLIFTON DOWN MUDSTONE FORMATION	DOLOMITE-MUDSTONE
GCO-OOLM	GOBLIN COMBE OOLITE FORMATION	OIDAL LIMESTONE
GCO-OOLM	GOBLIN COMBE OOLITE FORMATION	OIDAL LIMESTONE
GUO-OOLM	GULLY OOLITE FORMATION	OIDAL LIMESTONE
CDL-LMST	CLIFTON DOWN LIMESTONE FORMATION	LIMESTONE
POB-SDST	PORTISHEAD FORMATION	SANDSTONE
BRL-DLDO	BLACK ROCK LIMESTONE SUBGROUP	DOLOMITISED LIMESTONE AND DOLOMITE
MMG-MDHA	MERCIA MUDSTONE GROUP	MUDSTONE AND HALITE-STONE
CDM-DLMD	CLIFTON DOWN MUDSTONE FORMATION	DOLOMITE-MUDSTONE

Report Reference: HMD-441-912071

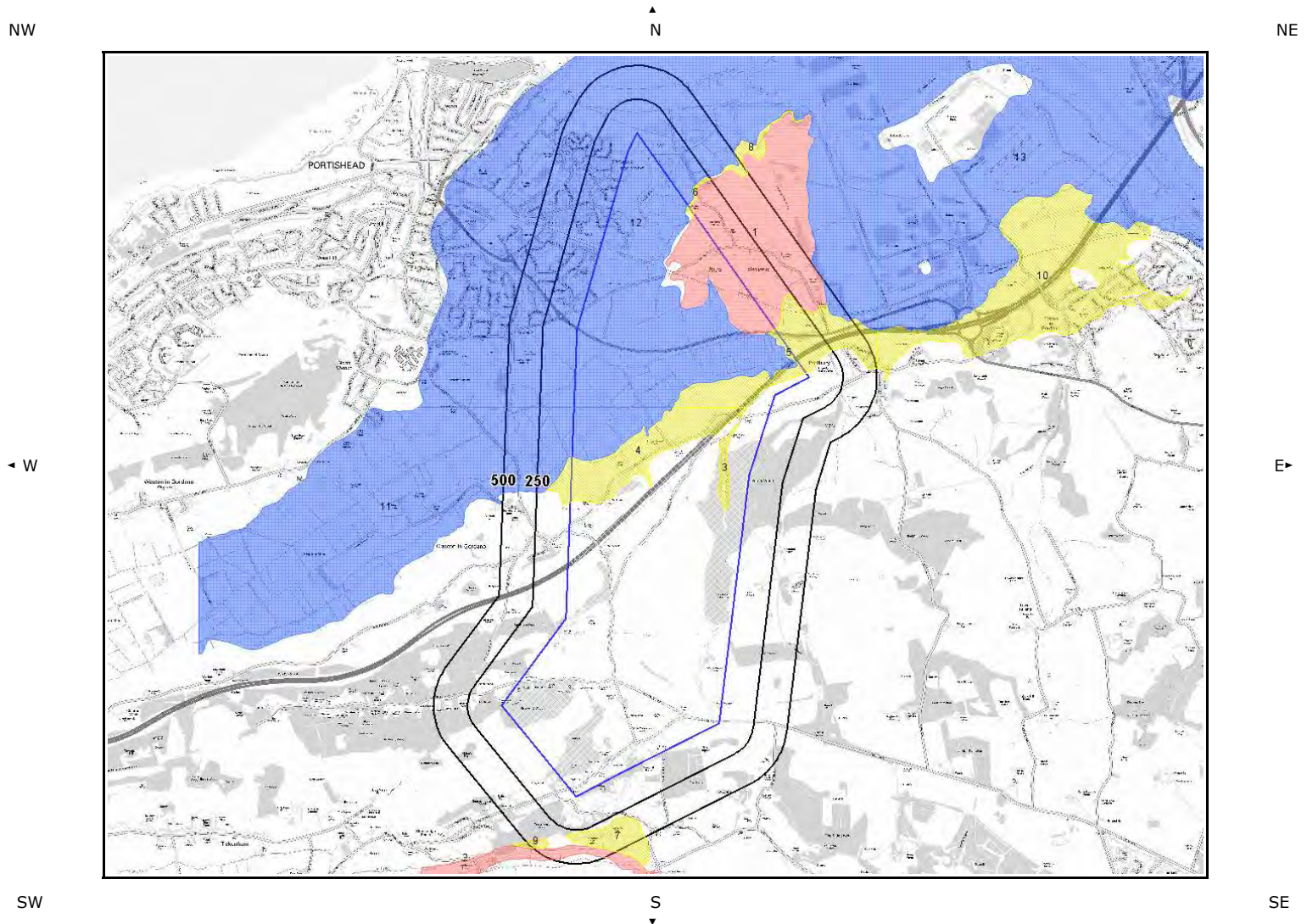
GCO-OOLM	GOBLIN COMBE OOLITE FORMATION	OOIDAL LIMESTONE
MMMF-CONG	MERCIA MUDSTONE GROUP (MARGINAL FACIES)	CONGLOMERATE
CDL-LMST	CLIFTON DOWN LIMESTONE FORMATION	LIMESTONE
DN-SDST	DOWNEND MEMBER	SANDSTONE
BLNS-SDST	BLACK NORE SANDSTONE FORMATION	SANDSTONE

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

For more detailed geological and ground stability data please refer to the "GroundSure Geology and Ground Stability Report". Available from our website.






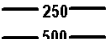




## 6a. Hydrogeology - Aquifer Within Superficial Geology



Aquifer Within Superficial Geology Legend

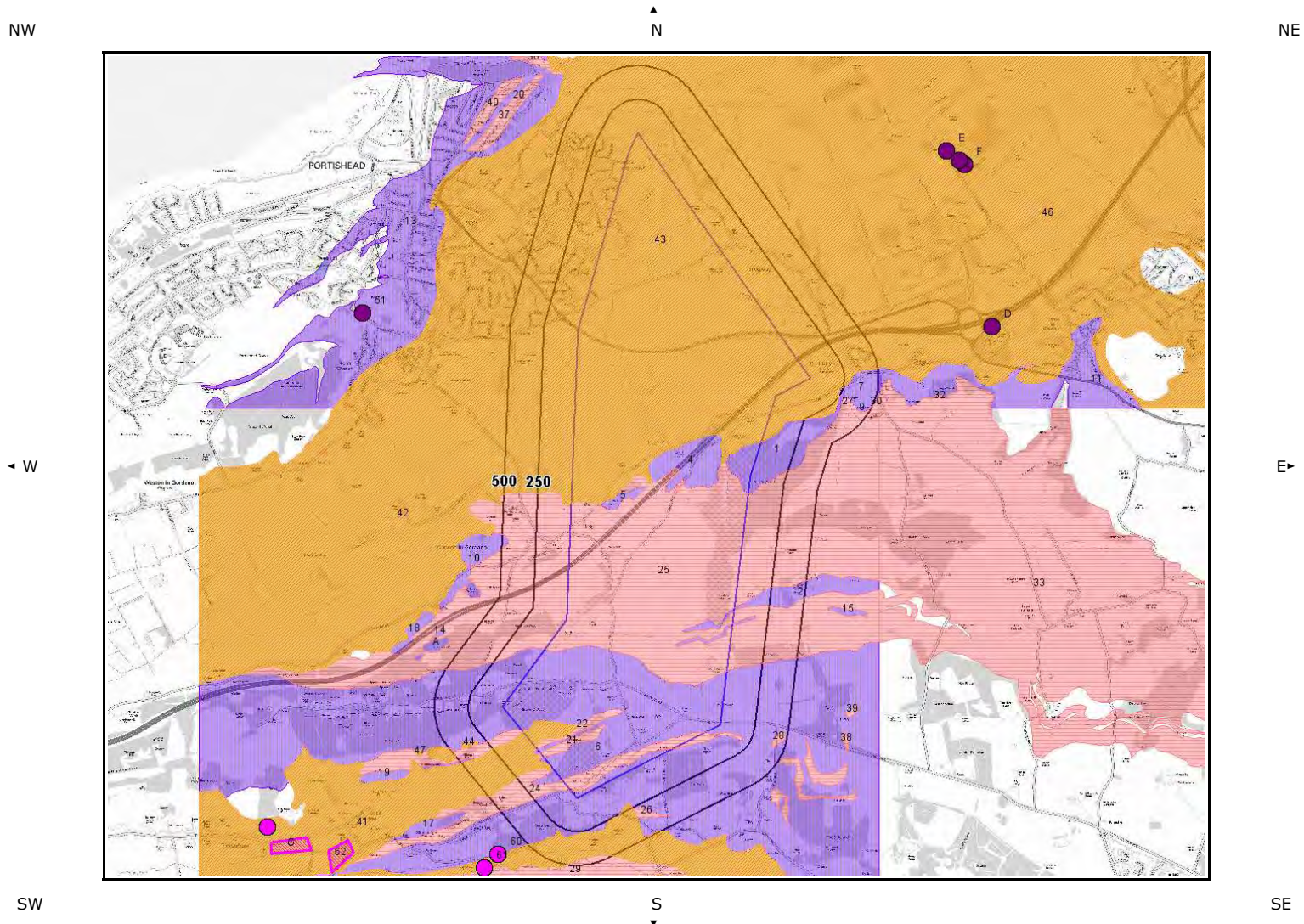


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	Site Outline		Principal Aquifer		Secondary Aquifer - Undifferentiated Layers
	Search Buffers (m)		Secondary (A) Aquifer - Permeable Layers		Unproductive
			Secondary (B) Aquifer - Lower Permeability Layers		Unknown (lakes and landslip)



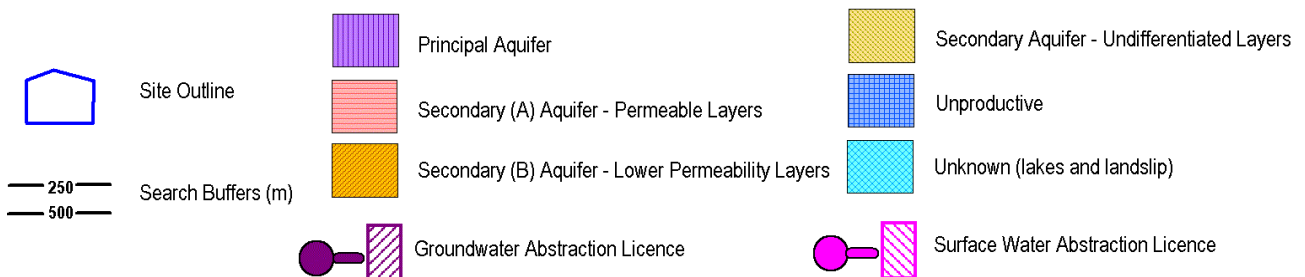
## 6b. Hydrogeology - Aquifer Within Bedrock Geology and Abstraction Licenses



Aquifer Within Bedrock Geology Legend

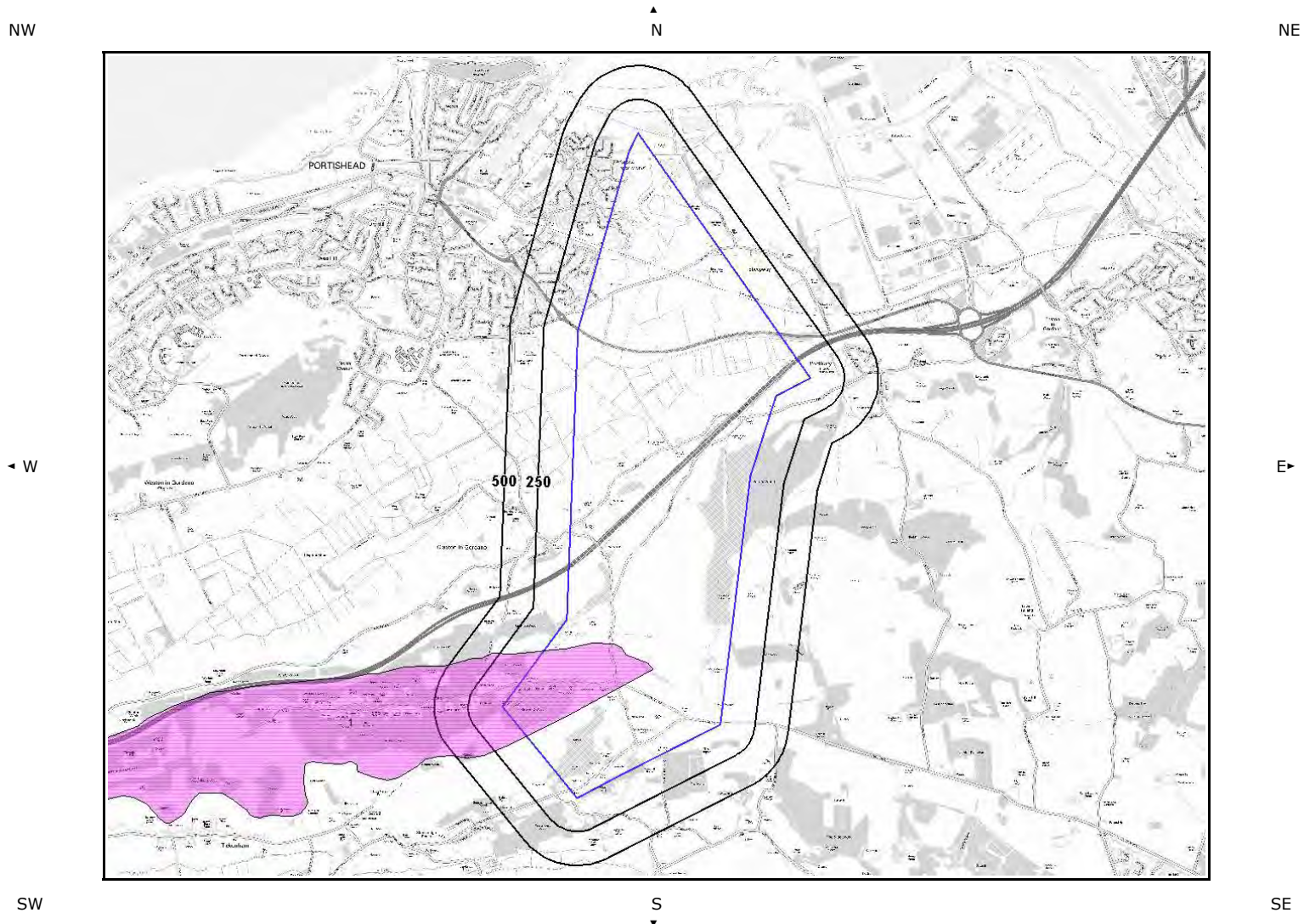


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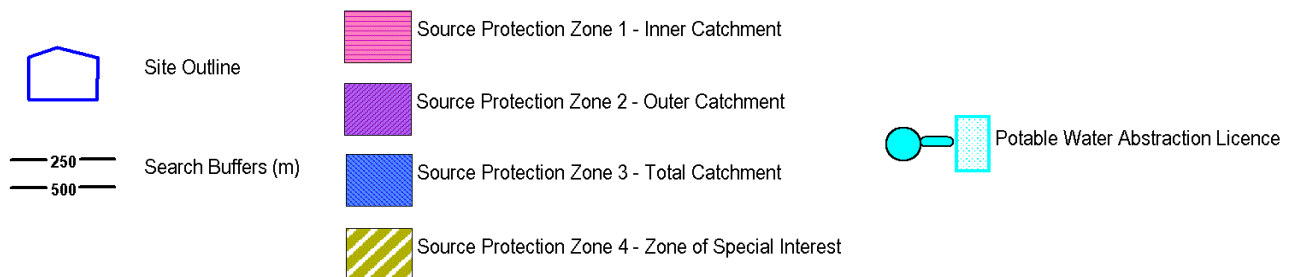
## 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



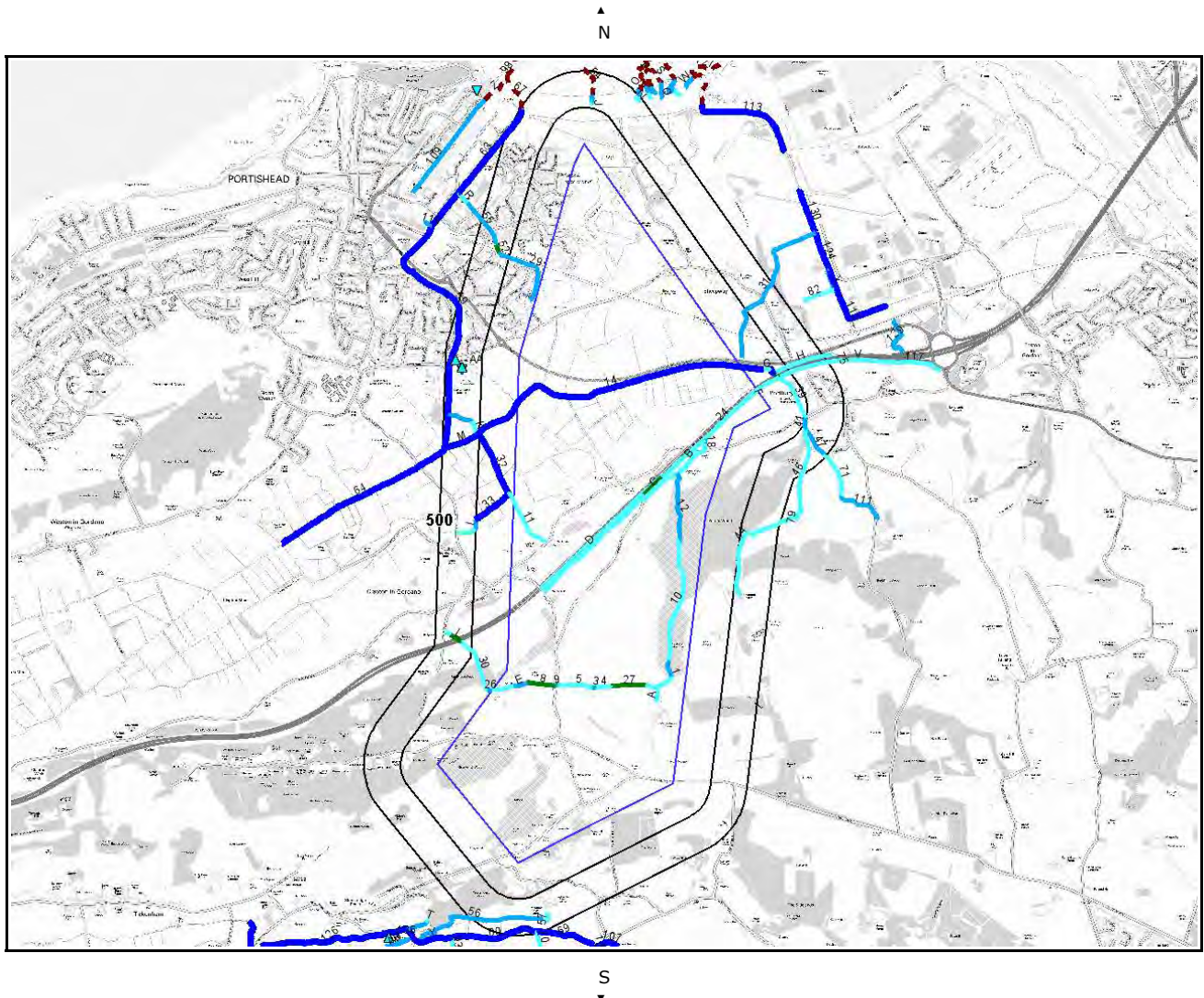
SPZ and Potable Water Abstraction Licenses  
Legend



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## 6d. Hydrology – Detailed River Network and River Quality



Hydrology Legend



Mapping sourced from  
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## 6. Hydrogeology and Hydrology

### 6.1 Aquifer within Superficial Deposits

**Are there records of productive strata within the superficial geology at or in proximity to the property?**

**Yes**

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (5a):

ID	Distance [m]	Direction	Designation	Description
1	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
3	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
11	0.0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
12	0.0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	255.0	S	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	354.0	NE	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	365.0	S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
9	387.0	SW	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

### 6.2 Aquifer within Bedrock Deposits

**Are there records of productive strata within the bedrock geology at or in proximity to the property?** **Yes**

Report Reference: HMD-441-912071

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (5b):

ID	Distance [m]	Direction	Designation	Description
1	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
3	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
5	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
6	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
21	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
22	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
23C	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
24	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
25	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
41	0.0	On Site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
42	0.0	On Site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
43	0.0	On Site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

ID	Distance [m]	Direction	Designation	Description
7	231.0	SE	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
26	256.0	SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
27	287.0	SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
44	295.0	SW	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
8	390.0	SW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
28	398.0	E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
9	407.0	SE	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
29	444.0	S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
10	455.0	W	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
30	485.0	SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
45C	488.0	SW	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

## 6.3 Groundwater Abstraction Licences

**Are there any Groundwater Abstraction Licences within 1000m of the study site?**

**Yes**

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance	Direction	NGR	Details
Not shown	922.0	SE	348220, 171310	Licence No: 16/52/015/G/042 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: Wraxall Data Type: Point Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 18/6/1998 Expiry Date: - Issue No: 100 Version Start Date: 18/6/1998 Version End Date:

Report Reference: HMD-441-912071

## 6.4 Surface Water Abstraction Licences

**Are there any Surface Water Abstraction Licences within 1000m of the study site?**

**Yes**

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance	Direction	NGR	Details	
60	718.0	SW	347200, 171700	Licence No: 16/52/015/S/039 Details: Fish Farm/Cress Pond Throughflow Direct Source: Surface Water - Fresh Point: Unnamed Tributary Of The Land Yeo Data Type: Point	Annual Volume (m³): 158112 Max Daily Volume (m³): 432 Application No: - Original Start Date: 8/12/1993 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2005 Version End Date:
61	858.0	SW	347100, 171600	Licence No: 16/52/015/S/035 Details: Fish Farm/Cress Pond Throughflow Direct Source: Surface Water - Fresh Point: Parish Brook Data Type: Point	Annual Volume (m³): 791000 Max Daily Volume (m³): 2160 Application No: 16/52/015/S/035 Original Start Date: 25/3/1991 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2005 Version End Date:

## 6.5 Potable Water Abstraction Licences

**Are there any Potable Water Abstraction Licences within 2000m of the study site?**

**No**

Database searched and no data found.

## 6.6 Source Protection Zones

**Are there any Source Protection Zones within 500m of the study site?**

**Yes**

The following Source Protection Zones records are represented on the SPZ and Potable Water Abstraction Map (5c):

ID	Distance	Direction	Type	Description
1	0.0	On Site	1	Inner Catchment

## 6.7 River Quality

**Is there any Environment Agency information on river quality within 1500m of the study site?**

**Yes**

**Biological Quality:**

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (5d):

ID	Distance [m]	Direction	NGR	River Details	Biological Quality Grade				
					2005	2006	2007	2008	2009

**Report Reference: HMD-441-912071**



131AA	384.0	W	347400, 175500	River Name: Portbury Ditch Reach: Middle Bridge-sea End/Start of Stretch: Start of Stretch NGR	B	B	B	B	B
132Z	818.0	NW	347500, 177400	River Name: Portbury Ditch Reach: Middle Bridge-sea End/Start of Stretch: End of Stretch NGR	B	B	B	B	B

## Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAH). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (5d):

ID	Distance [m]	Direction	NGR	River Details	Chemical Quality Grade (Headline Indicator)				
					2005	2006	2007	2008	2009
133A A	384.0	W	347400, 175500	River Name: Portbury Ditch Reach: Source-middle Bridge End/Start of Stretch: End of Stretch NGR	D	D	D	D	D
134A A	430.0	W	347356, 175549	River Name: Portbury Ditch Reach: Source-middle Bridge End/Start of Stretch: Sample Point NGR	D	D	D	D	D
135A B	1013.0	SW	346900, 171600	River Name: Land Yeo Reach: Nailsea-clevedon End/Start of Stretch: End of Stretch NGR	B	B	B	B	A
136	1013.0	SW	346900, 171600	River Name: Land Yeo Reach: Nailsea-clevedon End/Start of Stretch: Start of Stretch NGR	B	B	B	B	A
Not shown	1420.0	SE	348900, 171100	River Name: Kenn Reach: Source-sea End/Start of Stretch: Start of Stretch NGR	C	C	C	C	C

## 6.8 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site?

Yes

The following Detailed River Network records are represented on the Hydrology Map (5d):

ID	Distance	Direction	Details	
1	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
2A	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
3	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
4	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined

5	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
6A	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
7A	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
8	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Extended Culvert (greater than 50m) Catchment: - Drain: NO Main River Status: Currently Undefined
9	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
10	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
11	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
12	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
13C	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
14	0.0	On Site	River Name: Drain Water Course Name: Sandy Rhyne Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NA Main River Status: Currently Undefined
15B	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
16E	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
17B	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
18	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
19C	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
20C	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Extended Culvert (greater than 50m) Catchment: - Drain: NO Main River Status: Currently Undefined
21F	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
22D	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
23D	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
24	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined

25E	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
26	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
27	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Extended Culvert (greater than 50m) Catchment: - Drain: NO Main River Status: Currently Undefined
28F	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
29	17.0	W	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
30	27.0	NW	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
31	40.0	NE	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
32	41.0	W	River Name: Drain Water Course Name: Sperrings Rhyne Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NA Main River Status: Currently Undefined
33	42.0	W	River Name: - Water Course Name: Sperrings Rhyne Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
34G	116.0	NE	River Name: Drain Water Course Name: Sandy Rhyne Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NA Main River Status: Currently Undefined
35G	150.0	NE	River Name: Drain Water Course Name: Sandy Rhyne Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NA Main River Status: Currently Undefined
36H	155.0	NE	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
37G	155.0	NE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Extended Culvert (greater than 50m) Catchment: - Drain: NO Main River Status: Currently Undefined
38G	167.0	NE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
39	169.0	NE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
40H	169.0	NE	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
41	239.0	E	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
42I	249.0	W	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
43I	249.0	W	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
44	252.0	E	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined

45M	257.0	W	River Name: - Water Course Name: Sandy Rhyne Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
46	271.0	SE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
47	272.0	SE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
48K	273.0	W	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
49J	280.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
50J	286.0	N	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
51K	302.0	W	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
52	318.0	W	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Extended Culvert (greater than 50m) Catchment: - Drain: NO Main River Status: Currently Undefined
53L	319.0	W	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Extended Culvert (greater than 50m) Catchment: - Drain: YES Main River Status: Currently Undefined
54	334.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: D/S of High Water Mark Catchment: - Drain: NO Main River Status: Currently Undefined
55	360.0	W	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
56	375.0	S	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
57	393.0	SE	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
58L	397.0	W	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
59	431.0	W	River Name: Drain Water Course Name: Portbury Ditch Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NA Main River Status: Currently Undefined
60	452.0	S	River Name: Land Yeo Water Course Name: Land Yeo Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
61N	464.0	NE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
62M	467.0	W	River Name: Drain Water Course Name: Portbury Ditch Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NA Main River Status: Currently Undefined
63	475.0	NW	River Name: Drain Water Course Name: Portbury Ditch Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NA Main River Status: Currently Undefined
64	479.0	W	River Name: - Water Course Name: Portbury Ditch Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined

65N	480.0	NE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
66N	484.0	NE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
67	489.0	NW	River Name: - Water Course Name: Portbury Ditch Welsh River Name: - Alternative Name: -	River Type: D/S of High Water Mark Catchment: - Drain: NO Main River Status: Currently Undefined
68N	489.0	NE	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
69	490.0	S	River Name: Land Yeo Water Course Name: Land Yeo Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
70	490.0	S	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
71	490.0	SE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined

## 6.9 Surface Water Features

**Are there any surface water features within 250m of the study site?**

**Yes**

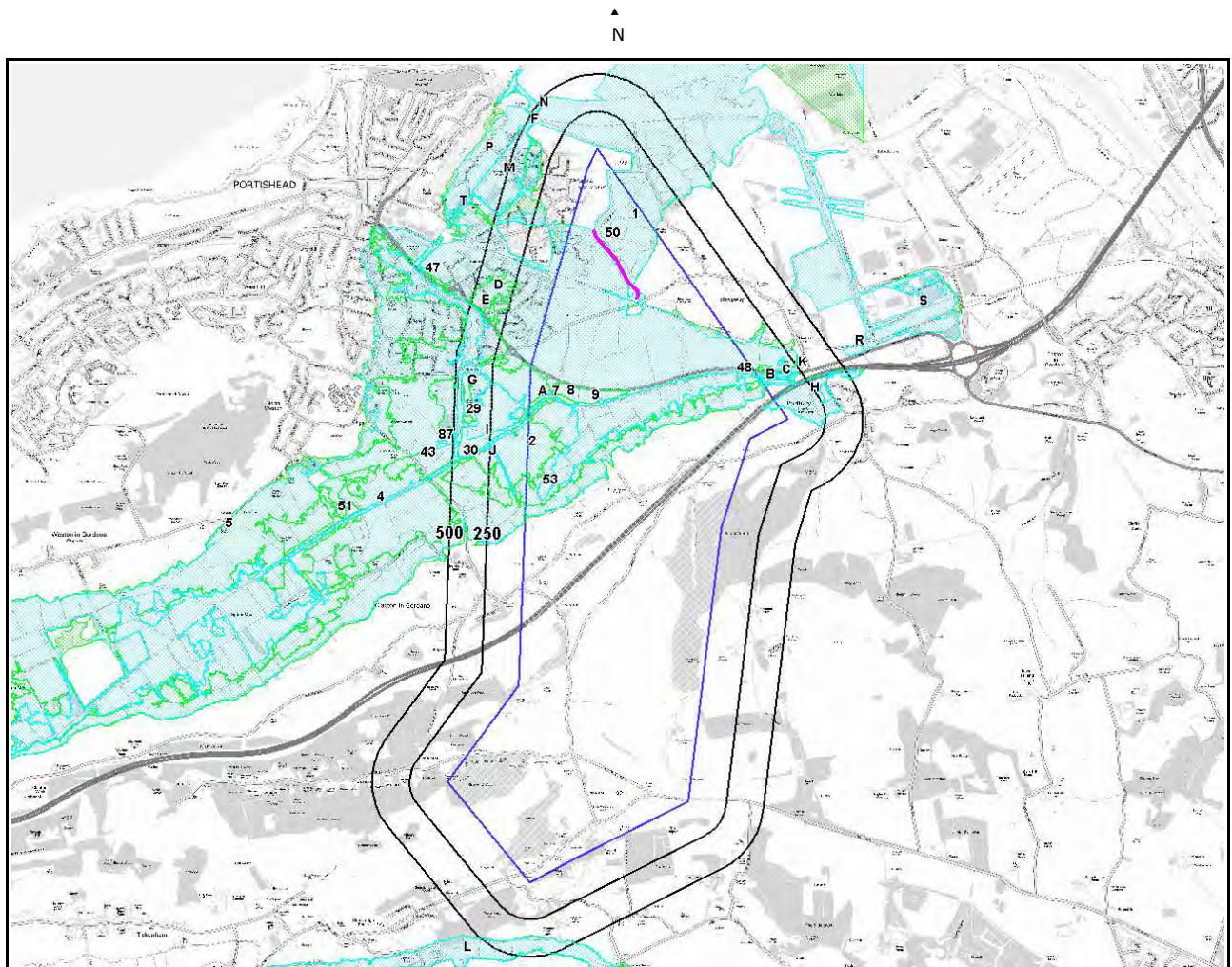
The following surface water records are not represented on mapping:

Distance to Surface Water (m)	on-site	0-50	51-250
Surface water features within 250m of the study site	Yes	Yes	Yes

This information is taken from [Ordnance Survey OpenData](#)<sup>TM</sup>. Contains Ordnance Survey data © Crown copyright and database right 2013.



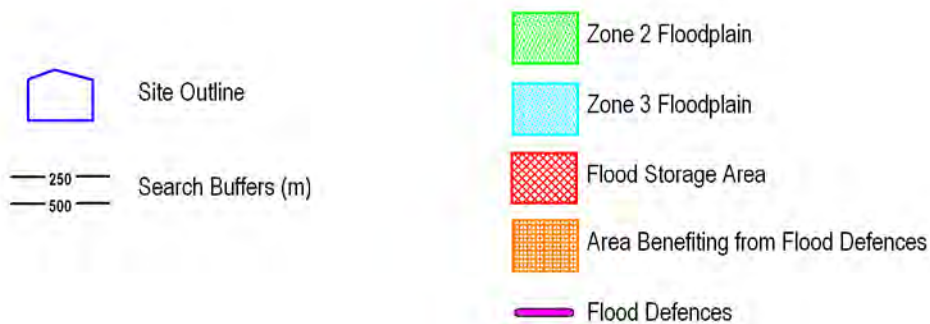
## 7. Surface Water Flood Map



Surface Water Flood Legend



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## 7. Flooding

### 7.1 Zone 2 Flooding

Zone 2 floodplain estimates the annual probability of flooding as one in one thousand (0.1%) or greater from rivers and the sea but less than 1% from rivers or 0.5% from the sea. Alternatively, where information is available they may show the highest known flood level.

**Is the site within 250m of an Environment Agency indicative Zone 2 floodplain?**

**Yes**

The following floodplain records are represented as green shading on the Flood Map:

ID	Distance [m]	Direction	Update	Type
1	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
2	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
3A	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
4	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial / Tidal Models )
5	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
6A	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
7	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
8	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
9	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
10B	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial / Tidal Models )
11H	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
12I	15.0	W	13-Mar-2013	Zone 2 - (Tidal Models )
13B	16.0	NE	13-Mar-2013	Zone 2 - (Fluvial Models )
14B	19.0	NE	13-Mar-2013	Zone 2 - (Tidal Models )
15B	42.0	NE	13-Mar-2013	Zone 2 - (Fluvial Models )
16B	46.0	NE	13-Mar-2013	Zone 2 - (Tidal Models )
17B	59.0	NE	13-Mar-2013	Zone 2 - (Tidal Models )
18B	73.0	NE	13-Mar-2013	Zone 2 - (Fluvial Models )
19C	101.0	NE	13-Mar-2013	Zone 2 - (Tidal Models )
20J	193.0	W	13-Mar-2013	Zone 2 - (Tidal Models )
21C	197.0	NE	13-Mar-2013	Zone 2 - (Fluvial Models )
22C	198.0	NE	13-Mar-2013	Zone 2 - (Tidal Models )
23C	204.0	NE	13-Mar-2013	Zone 2 - (Fluvial Models )
24C	208.0	NE	13-Mar-2013	Zone 2 - (Tidal Models )
25C	223.0	NE	13-Mar-2013	Zone 2 - (Fluvial Models )
26D	223.0	W	13-Mar-2013	Zone 2 - (Fluvial / Tidal Models )
27K	226.0	NE	13-Mar-2013	Zone 2 - (Tidal Models )

## 7.2 Zone 3 Flooding

Zone 3 estimates the annual probability of flooding as one in one hundred (1%) or greater from rivers and a one in two hundred (0.5%) or greater from the sea. Alternatively, where information is available they may show the highest known flood level.

**Is the site within 250m of an Environment Agency indicative Zone 3 floodplain?**

**Yes**

The following floodplain records are represented as blue shading on the Flood Map:

ID	Distance [m]	Direction	Update	Type
48	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
49B	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
50	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
51	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
52H	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
53	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
54	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
55I	5.0	W	13-Mar-2013	Zone 3 - (Tidal Models )
56B	42.0	NE	13-Mar-2013	Zone 3 - (Fluvial Models )
57B	48.0	NE	13-Mar-2013	Zone 3 - (Tidal Models )
58B	49.0	NE	13-Mar-2013	Zone 3 - (Tidal Models )
59B	52.0	NE	13-Mar-2013	Zone 3 - (Fluvial Models )
60B	52.0	NE	13-Mar-2013	Zone 3 - (Fluvial Models )
61B	53.0	NE	13-Mar-2013	Zone 3 - (Fluvial Models )
62B	55.0	NE	13-Mar-2013	Zone 3 - (Tidal Models )
63B	59.0	NE	13-Mar-2013	Zone 3 - (Fluvial Models )
64B	73.0	NE	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
65J	75.0	W	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
66B	77.0	NE	13-Mar-2013	Zone 3 - (Fluvial Models )
67B	82.0	NE	13-Mar-2013	Zone 3 - (Tidal Models )
68B	85.0	NE	13-Mar-2013	Zone 3 - (Tidal Models )
69B	86.0	NE	13-Mar-2013	Zone 3 - (Fluvial Models )
70B	89.0	NE	13-Mar-2013	Zone 3 - (Tidal Models )
71C	101.0	NE	13-Mar-2013	Zone 3 - (Tidal Models )
72K	150.0	NE	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
73K	152.0	NE	13-Mar-2013	Zone 3 - (Fluvial Models )
74K	156.0	NE	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
75K	181.0	NE	13-Mar-2013	Zone 3 - (Fluvial Models )
76K	198.0	NE	13-Mar-2013	Zone 3 - (Tidal Models )

## 7.3 Flood Defences

**Are there any Flood Defences within 250m of the study site ?**

**Yes**

The following flood defence records are represented as lines on the Flood Map:

ID	Distance [m]	Direction	Update
95	0.0	On Site	13-Mar-2013

## 7.4 Areas benefiting from Flood Defences

**Are there any areas benefiting from Flood Defences within 250m of the study site?**

**No**

## 7.5 Areas used for Flood Storage

**Are there any areas used for Flood Storage within 250m of the study site?**

**No**

## 7.6 Groundwater Flooding Susceptibility Areas

**Are there any British Geological Survey groundwater flooding susceptibility flood areas within 50m of the boundary of the study site?**

**Yes**

**What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?**

**Very High**

Guidance:

Where very high susceptibility is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

## 7.7 Groundwater Flooding Confidence Areas

**What is the British Geological Survey confidence rating in this result?**

**High**

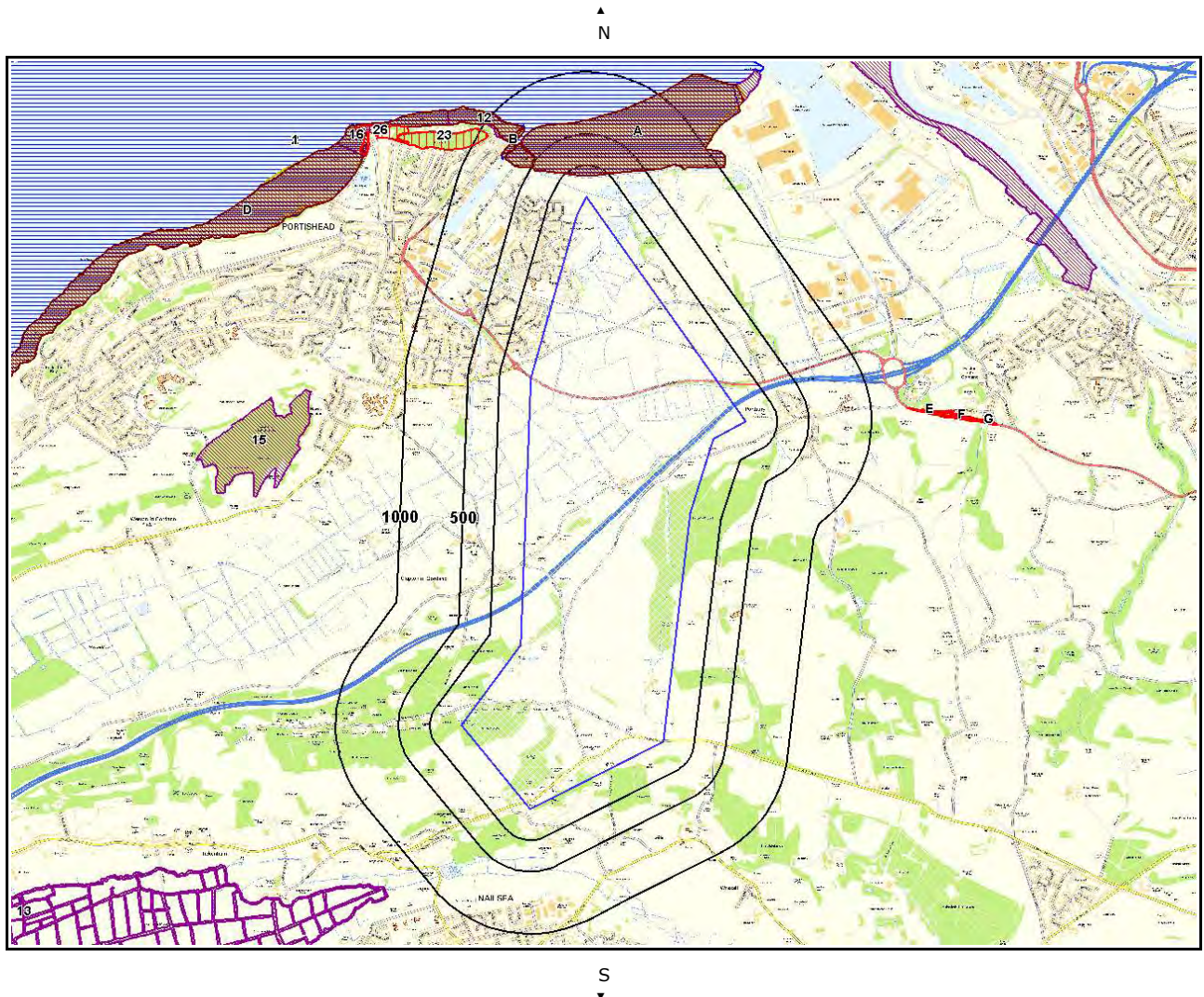
**Notes:**

Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The **confidence rating** is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.



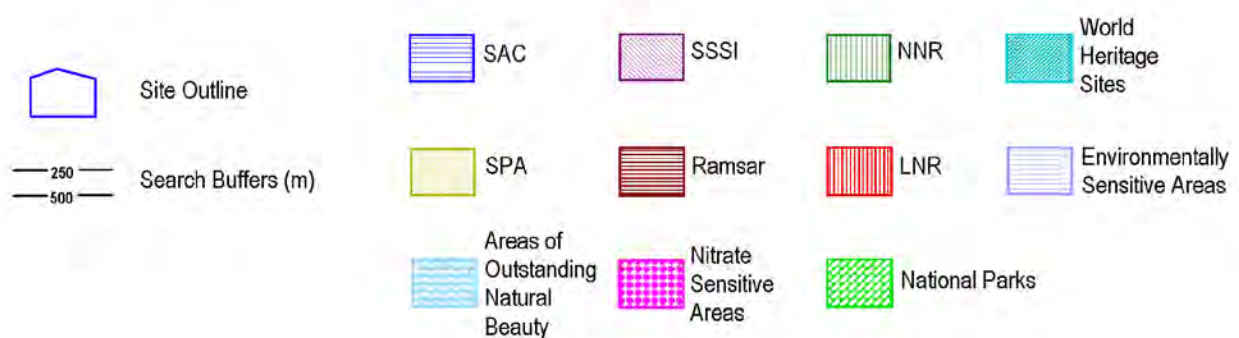
## 8.Designated Environmentally Sensitive Sites Map



Designated Environmentally Sensitive Sites Legend

Mapping sourced from **OS Ordnance Survey**

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## 8. Designated Environmentally Sensitive Sites

**Presence of Designated Environmentally Sensitive Sites within 2000m of the study site?** **Yes**

**Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:** **8**

The following Site of Special Scientific Interest (SSSI) records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance [m]	Direction	SSSI Name	Data Source
9A	165.0	N	Severn Estuary	Natural England
10B	691.0	NW	Severn Estuary	Natural England
11D	751.0	NW	Severn Estuary	Natural England
12	751.0	NW	Portishead Pier to Black Nore	Natural England
13	1297.0	SW	Tickenham, Nailsea & Kenn Moors	Natural England
14	1727.0	NE	Severn Estuary	Natural England
15	1743.0	W	Weston Big Wood	Natural England
16	1765.0	W	Portishead Pier to Black Nore	Natural England

**Records of National Nature Reserves (NNR) within 2000m of the study site:** **0**

Database searched and no data found.

**Records of Special Areas of Conservation (SAC) within 2000m of the study site:** **2**

The following Special Area of Conservation (SAC) records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance [m]	Direction	SAC Name	Data Source
1	165.0	N	Severn Estuary / Môr Hafren	Countryside Council for Wales
2	165.0	N	Severn Estuary	Natural England

**Records of Special Protection Areas (SPA) within 2000m of the study site:** **6**

The following Special Protection Area (SPA) records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance [m]	Direction	SPA Name	Data Source
3A	165.0	N	Severn Estuary(England)	Countryside Council for Wales
4A	165.0	N	Severn Estuary	Natural England
5B	691.0	NW	Severn Estuary	Natural England
6B	692.0	NW	Severn Estuary(England)	Countryside Council for Wales
7C	752.0	NW	Severn Estuary(England)	Countryside Council for Wales
8C	752.0	NW	Severn Estuary	Natural England

**Records of Ramsar sites within 2000m of the study site:** **6**

The following Ramsar site records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance [m]	Direction	Ramsar Site Name	Data Source
17A	165.0	N	Severn Estuary	Natural England

**Report Reference: HMD-441-912071**

18A	165.0	N	Severn Estuary (England)	CCW
19B	691.0	NW	Severn Estuary	Natural England
20B	691.0	NW	Severn Estuary (England)	CCW
21D	751.0	NW	Severn Estuary	Natural England
22D	751.0	NW	Severn Estuary (England)	CCW

---

**Records of Local Nature Reserves (LNR) within 2000m of the study site: 8**

The following Local Nature Reserve (LNR) records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance [m]	Direction	LNR Name	Data Source
23	923.0	NW	Eastwood and Battery Point	Natural England
24E	1282.0	E	St George's Flower Bank	Natural England
25E	1401.0	E	St George's Flower Bank	Natural England
26	1461.0	NW	Eastwood and Battery Point	Natural England
27F	1572.0	E	St George's Flower Bank	Natural England
28F	1626.0	E	St George's Flower Bank	Natural England
29G	1852.0	E	St George's Flower Bank	Natural England
30G	1917.0	E	St George's Flower Bank	Natural England

---

**Records of World Heritage Sites within 2000m of the study site: 0**

Database searched and no data found.

---

**Records of Environmentally Sensitive Areas within 2000m of the study site: 0**

Database searched and no data found.

---

**Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site: 0**

Database searched and no data found.

---

**Records of National Parks (NP) within 2000m of the study site: 0**

Database searched and no data found.

---

**Records of Nitrate Sensitive Areas within 2000m of the study site: 0**

Database searched and no data found.

## 9. Additional Information

### 9.1 Mobile Phone Transmitter Locations

GroundSure's unique mobile phone transmitter database.

**Have any mobile phone transmitters been identified within 250m of the study site?**

**No**

Database searched and no data found.

### 9.2 Existing and potential OfCom Telecommunication Mast Locations

OfCom telecommunication base station and mast data, which details the height and proposed location of masts over 30 metres in height or with a power level exceeding 17dBW.

**Have any OfCom telecommunication masts been identified within 250m of the study site?**

**Yes**

The following records within 250m have been found within this search:

Distance [m]	Direction	OfCom Reference	Address	Approx. Mast Height (m)
0.0	On Site	R(P)9546	Avon, Bristol, Clapton-in-gordano,	0.5
0.0	On Site	X(P)3966	Avon, Lower Caswell Bristol, Caswell Hill, Caswell Rd, W11 Wpd Pylon	0

### 9.3 Pylons and Electricity Transmission Lines

**Have any overhead transmission lines or pylons been identified in proximity to the study site?**

**Yes**

The following records within 500m have been found within this search:

Distance [m]	Direction
0.0	On Site
0.0	On Site
137.0	NE

Guidance:Overhead power transmission lines and/or pylons have been identified in proximity to the study site. Overhead power transmission lines are known to emit electromagnetic fields (EMF). For further information on issues associated with transmission lines you may wish to contact the EMF Unit Public Information Line on 0845 7023270 or visit [www.emfs.info](http://www.emfs.info). Guidance on electromagnetic fields resulting from transmission and distribution lines can also be found on the Health Protection Agency (HPA) website. GroundSure provide the data for information only and do not make any judgment on the risks or otherwise of EMFs. The database is searched up to 500m.

## 10. Natural Hazards Findings

### 10.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information, please obtain a GroundSure Geology and Ground Stability Report. Available from our website. The following information has been found:

#### 10.1.1 Shrink Swell

**What is the maximum Shrink-Swell\* hazard rating identified on the study site?**

**Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.

#### 10.1.2 Landslides

**What is the maximum Landslide\* hazard rating identified on the study site?**

**Moderate**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.

#### 10.1.3 Soluble Rocks

**What is the maximum Soluble Rocks\* hazard rating identified on the study site?**

**Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Significant soluble rocks are present, with some dissolution features, but no, or very little, recorded subsidence. Low possibility of subsidence occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow. Consider implications for stability when changes to surface drainage or new construction are planned. For new build site investigation should consider potential for dissolution problems on the site and its surroundings. Care should be taken with local drainage into the bedrock. For existing property possible increase in insurance risk due to soluble rocks. Some possibility of potential liability due to groundwater pollution may be present.

#### 10.1.4 Compressible Ground

**What is the maximum Compressible Ground\* hazard rating identified on the study site?**

**High**

Report Reference: HMD-441-912071

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

#### Hazard

Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property possible increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly.

### 10.1.5 Collapsible Rocks

**What is the maximum Collapsible Rocks\* hazard rating identified on the study site?**

**Very Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

#### Hazard

Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

### 10.1.6 Running Sand

**What is the maximum Running Sand\* hazard rating identified on the study site?**

**Moderate**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

#### Hazard

Significant potential for running sand problems with relatively small changes in ground conditions. Avoid large amounts of water entering the ground (for example through pipe leakage or soak-aways). Do not dig (deep) holes into saturated ground near the property without technical advice. For new build consider the consequences of soil and groundwater conditions during and after construction. For existing property possible increase in insurance risk from running sand, for example, due to water leakage, high rainfall events or flooding.

\* This indicates an automatically generated 50m buffer and site.

## 10.2 Radon

**What is the maximum radon potential at the study site?**

**The property is in a Radon Affected Area, as between 10 and 30% of properties are above the Action Level**

**Is the property in an area where radon protection measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?**

**Full radon protective measures are necessary**

Guidance: The responses given on the level of radon protective measures required are based on a joint radon potential dataset from the Health Protection Agency (HPA) and the British Geological Survey (BGS). Full radon protective measures need to be installed for new dwellings or extensions to existing dwellings, where 10% or more of homes are estimated to exceed the Action Level. The joint HPA-BGS radon potential data forms the basis for the Building Research Establishment guidance on radon protective measures for new dwellings (BR211 2007).

**Report Reference: HMD-441-912071**



## 11. Mining

### 11.1 Coal Mining

**Are there any coal mining areas within 75m of the study site?**

**Yes**

The following coal mining information provided by the Coal Authority is not represented on Mapping:

Distance [m]	Direction	Details
0.0	On Site	The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848.

### 11.2 Shallow Mining

**What is the hazard of subsidence relating to shallow mining on-site (including a 150m buffer)?**

**Low**

Guidance: Where low potential is indicated, this means that the rocks underlying the area are of a type known to have been mined at shallow depth in some parts of the UK, but that it is unlikely to be of significant concern in this area. However, it is recommended that you do obtain a Coal Authority mining search in this area, which will provide a comprehensive search of former mining activity, including coal mining at deeper levels.

### 11.3 Brine Affected Areas

**Are there any brine affected areas within 75m of the study site?**

**No**

Guidance: No Guidance Required.

## 12. Contacts

### GroundSure Helpline

Telephone: 08444 159 000  
info@4c.groundsure.com



### British Geological Survey (England & Wales)

Kingsley Dunham Centre  
Keyworth, Nottingham NG12 5GG  
Tel: 0115 936 3143. Fax: 0115 936 3276. Email:  
enquiries@bgs.ac.uk  
Web: www.bgs.ac.uk  
BGS Geological Hazards Reports and general geological  
enquiries



### Environment Agency

Tel: 08708 506 506  
Wessex  
Rivers Hse Bridgwater - East Quay, Bridgwater, TA6 4YS  
Web: www.environment-agency.gov.uk  
Email: enquiries@environment-agency.gov.uk



### Health Protection Agency

Chilton, Didcot, Oxon, OX11 0RQ  
Tel: 01235 822622 www.hpa.org.uk/radiation  
Radon measures and general radon information and  
guidance



### The Coal Authority

200 Lichfield Lane, Mansfield, Notts NG18 4RG  
Tel: 0845 762 6848  
DX 716176 Mansfield 5  
Web: [www.groundstability.com](http://www.groundstability.com)



### Ordnance Survey

Romsey Road  
Southampton SO16 4GU  
Tel: 08456 050505



### Local Authority

Authority: North Somerset District Council  
Phone: 01934 888 888  
Web: www.n-somerset.gov.uk  
Address: Town Hall, Walliscote Grove Road, Weston-super-  
Mare, Somerset, BS23 1UJ

### Get Mapping PLC

Virginia Villas, High Street, Hartley Witney, Hampshire RG27  
8NW  
Tel: 01252 845444



### CoPSO

The Old Rectory, Church Lane, Thornby, Northants NN6 8SN  
Tel: 0871 4237191  
(www.copso.org.uk)



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## **Search Code**

### **IMPORTANT CONSUMER PROTECTION INFORMATION**

This search has been produced by GroundSure Ltd, Lees House, 21 Dyke Road, Brighton, BN1 3FE. Tel: 08444 159 000. Email: [info@4C.groundsure.com](mailto:info@4C.groundsure.com) which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered search firms maintain compliance with the Code.

The Search Code:

- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the United Kingdom
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practice and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

### **The Code's core principles**

Firms which subscribe to the Search Code will:

- display the Search Code logo prominently on their search reports
- act with integrity and carry out work with due skill, care and diligence
- at all times maintain adequate and appropriate insurance to protect consumers
- conduct business in an honest, fair and professional manner
- handle complaints speedily and fairly
- ensure that products and services comply with industry registration rules and standards and relevant laws
- monitor their compliance with the Code

### **COMPLAINTS**

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award compensation of up to £5,000 to you if he finds that you have suffered actual loss as a result of your search provider failing to keep to the Code.

**Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.**

### **TPOs Contact Details:**

The Property Ombudsman scheme  
Milford House  
43-55 Milford Street  
Salisbury  
Wiltshire SP1 2BP  
Tel: 01722 333306  
Fax: 01722 332296  
Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

You can get more information about the PCCB from [www.propertycodes.org.uk](http://www.propertycodes.org.uk).

**PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE**

## COMPLAINTS PROCEDURE

If you want to make a complaint, we will:

- Acknowledge it within 5 working days of receipt.
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt.
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time.
- Provide a final response, in writing, at the latest within 40 working days of receipt.
- Liaise, at your request, with anyone acting formally on your behalf.

Complaints should be sent to: Operations Director, GroundSure Ltd, Lees House, 21 Dyke Road, Brighton, BN1 3FE.  
Tel: 08444 159 000. Email: [info@4C.groundsure.com](mailto:info@4C.groundsure.com)

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs): Tel: 01722 333306, E-mail: [admin@tpos.co.uk](mailto:admin@tpos.co.uk).

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

# Standard Terms and Conditions

## 1 Definitions

In these terms and conditions unless the context otherwise requires:

**“Beneficiary”** means the person or entity for whose benefit the Client has obtained the Services.

**“Client”** means the party or parties entering into a Contract with GroundSure.

**“Commercial”** means any building or property which is not Residential.

**“Confidential Information”** means the contents of this Contract and all information received from the Client as a result of, or in connection with, this Contract other than

(i) information which the Client can prove was rightfully in its possession prior to disclosure by GroundSure and

(ii) any information which is in the public domain (other than by virtue of a breach of this Contract).

**“Support Services”** means Support Services provided by GroundSure including, without limitation, interpreting third party and in-house environmental data, providing environmental support advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.

**“Contract”** means the contract between GroundSure and the Client for the provision of the Services, and which shall incorporate these terms and conditions, the Order, and the relevant User Guide.

**“Third Party Data Provider”** means any third party providing Third Party Content to GroundSure.

**“Data Reports”** means reports comprising factual data with no accompanying interpretation.

**“Fees”** has the meaning set out in clause 5.1.

**“GroundSure”** means GroundSure Limited, a company registered in England and Wales under number 03421028.

**“GroundSure Materials”** means all materials prepared by GroundSure and provided as part of the Services, including but not limited to Third Party Content, Data Reports, Mapping, and Risk Screening Reports.

**“Intellectual Property”** means any patent, copyright, design rights, trade or service mark, moral rights, data protection rights, know-how or trade mark in each case whether registered or not and including applications for the same or any other rights of a similar nature anywhere in the world.

**“Mapping”** means a map, map data or a combination of historical maps of various ages, time periods and scales.

**“Order”** means an electronic, written or other order form submitted by the Client requesting Services from GroundSure in respect of a specified Site.

**“Ordnance Survey”** means the Secretary of State for Business, Innovation and Skills, acting through Ordnance Survey, Adanac Drive, Southampton, SO16 0AS, UK.

**“Order Website”** means the online platform through which Orders may be placed by the Client and accepted by GroundSure.

**“Report”** means a Risk Screening Report or Data Report for Commercial or Residential property.

**“Residential”** means any building or property used as or intended to be used as a single dwelling.

**“Risk Screening Report”** means a risk screening report comprising factual data with an accompanying interpretation by GroundSure.

**“Services”** means any Report, Mapping and/or Support Services which GroundSure has agreed to provide by accepting an Order pursuant to clause 2.6.

**“Site”** means the area of land in respect of which the Client has requested GroundSure to provide the Services.

**“Third Party Content”** means data, database information or other information which is provided to GroundSure by a Third Party Data Provider.

**“User Guide”** means the user guide, as amended from time to time, available upon request from GroundSure and on the website ([www.groundsure.com](http://www.groundsure.com)) and forming part of this Contract.

## 2 Scope of Services, terms and conditions, requests for insurance and quotations

2.1 GroundSure agrees to provide the Services in accordance with the Contract.

2.2 GroundSure shall exercise reasonable skill and care in the provision of the Services.

2.3 Subject to clause 7.3 the Client acknowledges that it has not relied on any statement or representation made by or on behalf of GroundSure which is not set out and expressly agreed in writing in the Contract and all such statements and representations are hereby excluded to the fullest extent permitted by law.

2.4 The Client acknowledges that terms and conditions appearing on a Client's order form, printed stationery or other communication, or any terms or conditions implied by custom, practice or course of dealing shall be of no effect, and that this Contract shall prevail over all others in relation to the Order.

2.5 If the Client or Beneficiary requests insurance in conjunction with or as a result of the Services, GroundSure shall use reasonable endeavours to recommend such insurance, but makes no warranty that such insurance shall be available from insurers or that it will be offered on reasonable terms. Any insurance purchased by the Client or Beneficiary shall be subject solely to the terms of the policy issued by insurers and GroundSure will have no liability therefor. In addition you acknowledge and agree that GroundSure does not act as an agent or broker for any insurance providers. The Client should take (and ensure that the Beneficiary takes) independent advice to ensure that the insurance policy requested or offered is suitable for its requirements.

2.6 GroundSure's quotations or proposals are valid for a period of 30 days only unless an alternative period of time is explicitly stipulated by Groundsure. GroundSure reserves the right to withdraw any quotation or proposal at any time before an Order is accepted by GroundSure. GroundSure's acceptance of an Order shall be binding only when made in writing and signed by GroundSure's authorised representative or when accepted through the Order Website.

## 3 The Client's obligations

3.1 The Client shall comply with the terms of this Contract and

(i) procure that the Beneficiary or any third party relying on the Services complies with and acts as if it is bound by the Contract and

(ii) be liable to GroundSure for the acts and omissions of the Beneficiary or any third party relying on the Services as if such acts and omissions were those of the Client.

3.2 The Client shall be solely responsible for ensuring that the Services are appropriate and suitable for its and/or the Beneficiary's needs.

3.3 The Client shall supply to GroundSure as soon as practicable and without charge all requisite information (and the Client warrants that such information is accurate, complete and appropriate), including without limitation any environmental information relating to the Site and shall give such assistance as GroundSure shall reasonably require in the provision of the Services including, without limitation, access to the Site, facilities and equipment.

3.4 Where the Client's approval or decision is required to enable GroundSure to carry out work in order to provide the Services, such approval or decision shall be given or procured in reasonable time and so as not to delay or disrupt the performance of the Services.

3.5 Save as expressly permitted by this Contract the Client shall not, and shall procure that the Beneficiary shall not, re-sell, alter, add to, or amend the GroundSure Materials, or use the GroundSure Materials in a manner for which they were not intended. The Client may make the GroundSure Materials available to a third party who is considering acquiring some or all of, or providing funding in relation to, the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.

3.6 The Client is responsible for maintaining the confidentiality of its user name and password if using the Order Website and the Client acknowledges that GroundSure accepts no liability of any kind for any loss or damage suffered by the Client as a consequence of using the Order Website.



## 4 Reliance

4.1 The Client acknowledges that the Services provided by GroundSure consist of the presentation and analysis of Third Party Content and other content and that information obtained from a Third Party Data Provider cannot be guaranteed or warranted by GroundSure to be reliable.

4.2 In respect of Data Reports, Mapping and Risk Screening Reports, the following classes of person and no other are entitled to rely on their contents;

- (i) the Beneficiary,
- (ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate),
- (iv) the first purchaser or first tenant of the Site, and
- (v) the professional advisers and lenders of the first purchaser or tenant of the Site.

4.3 In respect of Support Services, only the Client, Beneficiary and parties expressly named in a Report and no other parties are entitled to rely on its contents.

4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise expressly agreed in writing, no other person or entity of any kind is entitled to rely on any Services or Report issued or provided by GroundSure. Any party considering such Reports and Services does so at their own risk.

## 5 Fees and Disbursements

5.1 GroundSure shall charge and the Client shall pay fees at the rate and frequency specified in the written proposal, Order Website or Order acknowledgement form, plus (in the case of Support Services) all proper disbursements incurred by GroundSure. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services (together "Fees").

5.2 The Client shall pay all outstanding Fees to GroundSure in full without deduction, counterclaim or set off within 30 days of the date of GroundSure's invoice or such other period as may be agreed in writing between GroundSure and the Client ("Payment Date"). Interest on late payments will accrue on a daily basis from the Payment Date until the date of payment (whether before or after judgment) at the rate of 8% per annum.

5.3 The Client shall be deemed to have agreed the amount of any invoice unless an objection is made in writing within 28 days of the date of the invoice. As soon as reasonably practicable after being notified of an objection, without prejudice to clause 5.2 a member of GroundSure's management team will contact the Client and the parties shall then use all reasonable endeavours to resolve the dispute within 15 days.

## 6 Intellectual Property and Confidentiality

6.1 Subject to

- (i) full payment of all relevant Fees and
- (ii) compliance with this Contract, the Client is granted (and is permitted to sub-licence to the Beneficiary) a royalty-free, worldwide, non-assignable and (save to the extent set out in this Contract) non-transferable licence to make use of the GroundSure Materials.

6.2 All Intellectual Property in the GroundSure Materials are and shall remain owned by GroundSure or GroundSure's licensors (including without limitation the Third Party Data Providers) the Client acknowledges, and shall procure acknowledgement by the Beneficiary of, such ownership. Nothing in this Contract purports to transfer or assign any rights to the Client or the Beneficiary in respect of such Intellectual Property.

6.3 Third Party Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.

6.4 The Client shall, and shall procure that any recipients of the GroundSure Materials shall:

- (i) not remove, suppress or modify any trade mark, copyright or other proprietary marking belonging to GroundSure or any third party from the Services;
- (ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;
- (iii) not create any product or report which is derived directly or indirectly from the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);
- (iv) not combine the Services with or incorporate such Services into any other information data or service;

(v) not reformat or otherwise change (whether by modification, addition or enhancement), the Services (save that those acting for the Beneficiary in a professional capacity shall not be in breach of this clause 6.4(v) where such reformatting is in the normal course of providing advice based upon the Services);

(vi) where a Report and/or Mapping contains material belonging to Ordnance Survey, acknowledge and agree that such content is protected by Crown Copyright and shall not use such content for any purpose outside of receiving the Services; and

(vii) not copy in whole or in part by any means any map prints or run-on copies containing content belonging to Ordnance Survey (other than that contained within Ordnance Survey's OS Street Map) without first being in possession of a valid Paper Map Copying Licence from Ordnance Survey, 6.5 Notwithstanding clause 6.4, the Client may make reasonable use of the GroundSure Materials in order to advise the Beneficiary in a professional capacity. However, GroundSure shall have no liability in respect of any advice, opinion or report given or provided to Beneficiaries by the Client.

6.6 The Client shall procure that any person to whom the Services are made available shall notify GroundSure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

## 7. Liability: Particular Attention Should Be Paid To This Clause

7.1 This Clause 7 sets out the entire liability of GroundSure, including any liability for the acts or omissions of its employees, agents, consultants, subcontractors and Third Party Content, in respect of:

- (i) any breach of contract, including any deliberate breach of the Contract by GroundSure or its employees, agents or subcontractors;
- (ii) any use made of the Reports, Services, Materials or any part of them; and
- (iii) any representation, statement or tortious act or omission (including negligence) arising under or in connection with the Contract.

7.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

7.3 Nothing in the Contract limits or excludes the liability of the Supplier for death or personal injury resulting from negligence, or for any damage or liability incurred by the Client or Beneficiary as a result of fraud or fraudulent misrepresentation.

7.4 GroundSure shall not be liable for

- (i) loss of profits;
- (ii) loss of business;
- (iii) depletion of goodwill and/or similar losses;
- (iv) loss of anticipated savings;
- (v) loss of goods;
- (vi) loss of contract;
- (vii) loss of use;
- (viii) loss or corruption of data or information;
- (ix) business interruption;
- (x) any kind of special, indirect, consequential or pure economic loss, costs, damages, charges or expenses;
- (xi) loss or damage that arise as a result of the use of all or part of the GroundSure Materials in breach of the Contract;
- (xii) loss or damage arising as a result of any error, omission or inaccuracy in any part of the GroundSure Materials where such error, omission or inaccuracy is caused by any Third Party Content or any reasonable interpretation of Third Party Content;
- (xiii) loss or damage to a computer, software, modem, telephone or other property; and
- (xiv) loss or damage caused by a delay or loss of use of GroundSure's internet ordering service.

7.5 GroundSure's total liability in relation to or under the Contract shall be limited to £10 million for any claim or claims.

7.6 GroundSure shall procure that the Beneficiary shall be bound by limitations and exclusions of liability in favour of GroundSure which accord with those detailed in clauses 7.4 and 7.5 (subject to clause 7.3) in respect of all claims which the Beneficiary may bring against GroundSure

in relation to the Services or other matters arising pursuant to the Contract.

### **8 GroundSure's right to suspend or terminate**

8.1 If GroundSure reasonably believes that the Client or Beneficiary has not provided the information or assistance required to enable the proper provision of the Services, GroundSure shall be entitled to suspend all further performance of the Services until such time as any such deficiency has been made good.

8.2 GroundSure shall be entitled to terminate the Contract immediately on written notice in the event that:

(i) the Client fails to pay any sum due to GroundSure within 30 days of the Payment Date; or

(ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an administration order made against it or if a receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or

(iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or

(iv) the Client or the Beneficiary breaches any term of the Contract (including, but not limited to, the obligations in clause 4) which is incapable of remedy or if remediable, is not remedied within five days of notice of the breach.

### **9. Client's Right to Terminate and Suspend**

9.1 Subject to clause 10.1, the Client may at any time upon written notice terminate or suspend the provision of all or any of the Services.

9.2 In any event, where the Client is a consumer (and not a business) he/she hereby expressly acknowledges and agrees that:

(i) the supply of Services under this Contract (and therefore the performance of this Contract) commences immediately upon GroundSure's acceptance of the Order; and

(ii) the Reports and/or Mapping provided under this Contract are  
(a) supplied to the Client's specification(s) and in any event  
(b) by their nature cannot be returned.

### **10 Consequences of Withdrawal, Termination or Suspension**

10.1 Upon termination of the Contract:

(i) GroundSure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client and/or Beneficiary any property of the Client and/or Beneficiary in GroundSure's possession or control; and

(ii) the Client shall pay to GroundSure all and any Fees payable in respect of the performance of the Services up to the date of termination or suspension. In respect of any Support Services provided, the Client shall also pay GroundSure any additional costs incurred in relation to the termination or suspension of the Contract.

11 Anti-Bribery

11.1 The Client warrants that it shall:

(i) comply with all applicable laws, statutes and regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;

(ii) comply with such of GroundSure's anti-bribery and anti-corruption policies as are notified to the Client from time to time; and

(iii) promptly report to GroundSure any request or demand for any undue financial or other advantage of any kind received by or on behalf of the Client in connection with the performance of this Contract.

11.2 Breach of this Clause 11 shall be deemed a material breach of this Contract.

### **12 General**

12.1 The Mapping contained in the Services is protected by Crown copyright and must not be used for any purpose other than as part of the Services or as specifically provided in the Contract.

12.2 The Client shall be permitted to make one copy only of each Report or Mapping Order. Thereafter the Client shall be entitled to make unlimited copies of the Report or Mapping Order only in accordance with an Ordnance Survey paper map copy license available through GroundSure.

12.3 GroundSure reserves the right to amend or vary this Contract. No amendment or variation to this Contract shall be valid unless signed by an authorised representative of GroundSure.

12.4 No failure on the part of GroundSure to exercise, and no delay in exercising, any right, power or provision under this Contract shall operate as a waiver thereof.

12.5 Save as expressly provided in this Contract, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.

12.6 The Secretary of State for Business, Innovation and Skills ("BIS") or BIS' successor body, as the case may be, acting through Ordnance Survey may enforce a breach of clause 6.4(vi) and clause 6.4(vii) of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.

12.7 GroundSure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:

(i) the Client or Beneficiary's failure to provide facilities, access or information;

(ii) fire, storm, flood, tempest or epidemic;

(iii) Acts of God or the public enemy;

(iv) riot, civil commotion or war;

(v) strikes, labour disputes or industrial action;

(vi) acts or regulations of any governmental or other agency;

(vii) suspension or delay of services at public registries by Third Party Data Providers;

(viii) changes in law; or

(ix) any other reason beyond GroundSure's reasonable control.

In the event that GroundSure is prevented from performing the Services (or any part thereof) in accordance with this clause 12.6 for a period of not less than 30 days then GroundSure shall be entitled to terminate this Contract immediately on written notice to the Client.

12.8 Any notice provided shall be in writing and shall be deemed to be properly given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

12.9 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email (save to the extent such day is not a working day where it shall be deemed to have been delivered on the next working day) and on the second working day after the day of posting if sent by first class post.

12.10 The Contract constitutes the entire agreement between the parties and shall supersede all previous arrangements between the parties relating to the subject matter hereof.

12.11 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

12.12 This Contract shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with this Contract shall be subject to the exclusive jurisdiction of the English courts.

12.13 GroundSure is an executive member of the Council of Property Search Organisation (CoPSO) and has signed up to the Search Code administered by the Property Codes Compliance Board (PCCB). All Risk Screening Reports shall be supplied in accordance with the provisions of the Search Code.

12.14 If the Client or Beneficiary has a complaint about the Services, written notice should be given to the Compliance Officer at GroundSure who will respond in a timely manner.

12.15 The Client agrees that it shall, and shall procure that each Beneficiary shall, treat in confidence all Confidential Information and shall not, and shall procure that each Beneficiary shall not (i) disclose any Confidential Information to any third party other than in accordance with the terms of this Contract; and (ii) use Confidential Information for a purpose other than the exercise of its rights and obligations under this Contract. Subject to clause 6.6, nothing shall prevent the Client or any Beneficiary from disclosing Confidential Information to the extent required by law.



RSK STATS Geoconsult Ltd (Bedminster)	GroundSure	HMD-441-912071
Spring Lodge, , 172 Chester Road,	Reference:	
Cheshire,	Your Reference:	312318
Helsby, WA6 0AR	Report Date:	Jun 6, 2013
	Report Delivery	<b>xml</b>
	Method:	
	Client Email:	████████@rsk.co.uk

## GroundSure Data

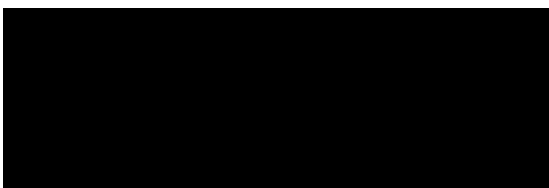
**Address: Hinkley C to Seabank grid connection project**

Dear Sir/Madam,

Thank you for placing your order with GroundSure. Please find enclosed the GroundSure Data report as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above GroundSure reference number.

Yours faithfully,



Managing Director  
Groundsure Limited

Enc.  
GroundSure Data





# GroundSure Data

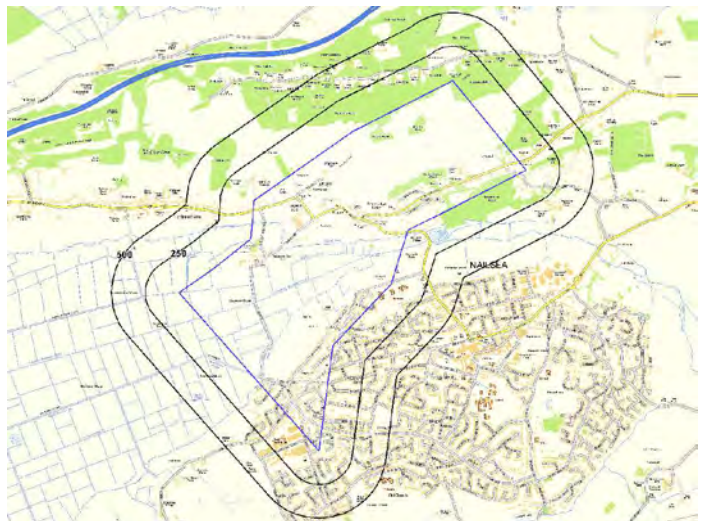
Address: Hinkley C to Seabank grid connection project

Date: Jun 6, 2013

GroundSure Reference: HMD-441-912071

Your Reference: 312318

Client: RSK STATS Geoconsult Ltd (Bedminster)



# Aerial Photograph of Study Site



Site Name: Hinkley C to Seabank grid connection project  
Grid Reference: 353664,181211

Aerial photography supplied by Getmapping PLC.  
© Copyright Getmapping PLC 2003. All Rights Reserved.

**Report Reference: HMD-441-912071**

If you would like any further assistance regarding this report then please contact  
GroundSure on (T) 08444 159 000, email: [info@4c.groundsure.com](mailto:info@4c.groundsure.com)

# Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Report Section	Number of records found within (X) m of the study site boundary					
	on-site	0-50	51-250	251-500	501-1000	1000-1500
<b>1. Historical Industrial Sites</b>						
1.1 Potentially Contaminative Past Land Use						
Records of potentially contaminative past land use ( 1:10,000 scale mapping )	16	14	29	-	-	-
1.2 Additional Information – Historical Tanks ( 1:2,500,1:1,250 scale mapping )	0	0	4*	-	-	-
1.3 Additional Information – Historical Energy Features ( 1:2,500,1:1,250 scale mapping )	42	0	9*	-	-	-
1.4 Additional Information – Historical Petrol and Fuel Site Database ( 1:2,500,1:1,250 scale mapping )	0	0	0*	-	-	-
1.5 Additional Information – Historical Vehicle Repair and Garages ( 1:2,500,1:1,250 scale mapping )	1	0	0*	-	-	-
1.6 Potentially Infilled Land						
Records of potentially infilled land ( 1:10,000 scale mapping )	39	7	4*	-	-	-
*51-100m						
<b>2. Environmental Permits, Incidents and Registers</b>						
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations						
Records of historic IPC Authorisations	0	0	0	0	-	-
Records of Part A(1) and IPPC Authorised Activities	0	0	0	0	-	-
Records of Water Industry Referrals (potentially harmful discharges to the public sewer)	0	0	0	0	-	-
Records of Red List Discharge Consents (potentially harmful discharges to controlled waters)	0	0	0	0	-	-
Records of List 1 Dangerous Substances Inventory sites	0	0	0	0	-	-
Records of List 2 Dangerous Substances Inventory sites	1	0	0	0	-	-
Records of Part A(2) and Part B Activities and Enforcements	1	0	0	1	-	-
Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0	-	-
Records of Licensed Discharge Consents	6	0	2	1	-	-
Records of Planning Hazardous Substance Consents and Enforcements	0	0	0	0		
2.2 Records of COMAH and NIHHS sites	0	0	0	0	-	-
2.3 Environment Agency Recorded Pollution Incidents						
National Incidents Recording System, List 2	8	0	4	-	-	-
National Incidents Recording System, List 1	0	0	0	-	-	-
2.4 Sites Determined as Contaminated Land under Part IIA EPA 1990	0	0	0	0	-	-

## Report Reference: HMD-441-912071

If you would like any further assistance regarding this report then please contact GroundSure on (T) 08444 159 000, email: info@4c.groundsure.com

3. Landfill and Other Waste Sites	on-site	0-50	51-250	251-500	501-1000	1000-1500
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#### 3.1 Landfill Sites

Environment Agency Registered landfill Sites	0	0	0	0	0	-
Landfill Data – Operational Landfill Sites	0	0	0	0	0	-
Environment Agency Historic Landfill Sites	0	0	0	0	2	0
Landfill Data – Non-Operational Landfill Sites	0	0	1	0	1	-
BGS/DoE Landfill Site Survey	0	0	0	0	0	0
GroundSure Local Authority Landfill Sites Data	0	0	0	0	1	0

#### 3.2 Landfill and Other Waste Sites Findings

Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	-	-
Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	-	-
Environment Agency licensed Waste Sites	0	0	0	0	0	0

4. Current Land Uses	on-site	0-50	51-250	251-500	501-1000	1000-1500
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4.1 Current Industrial Sites Data	39	8	23	-	-	-
4.2 Records of Petrol and Fuel Sites	0	0	0	1	-	-
4.3 Underground High Pressure Oil and Gas Pipelines	1	0	0	0	-	-

5. Geology	Description
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5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site? *	No
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site? *	Yes
5.3 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section. Source: Scale: 1:50,000 BGS Sheet 264	

\* This includes an automatically generated 50m buffer zone around the site.

6. Hydrogeology and Hydrology	on-site	0-50	51-250	251-500	501-1000	1001-2000
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6.1 Are there any records of Productive Strata in the Superficial Geology within 500m of the study site?				Yes		
6.2 Are there any records of Productive Strata in the Bedrock Geology within 500m of the study site?				Yes		
6.3 Groundwater Abstraction Licences (within 1000m of the study site).	1	0	0	0	1	-
6.4 Surface Water Abstraction Licences (within 1000m of the study site).	2	0	2	1	0	-
6.5 Potable Water Abstraction Licences (within 2000m of the study site).	0	0	0	0	0	0
6.6 Are there any Source Protection Zones within 500m of the study site?					Yes	
6.7 River Quality						
Is there any Environment Agency information on river quality within 1500m of the study site?	Yes	Yes	No	No	No	No
6.8 Detailed River Network entries within 500m of the site	26	0	11	8	-	-
6.9 Surface water features within 250m of the study site	Yes	Yes	Yes	-	-	-

7. Flooding
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## Report Reference: HMD-441-912071

If you would like any further assistance regarding this report then please contact GroundSure on (T) 08444 159 000, email: info@4c.groundsure.com



7.1 Are there any Environment Agency indicative Zone 2 floodplains within 250m of the study site?	Yes
7.2 Are there any Environment Agency indicative Zone 3 floodplains within 250m of the study site?	Yes
7.3 Are there any Flood Defences within 250m of the study site?	No
7.4 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
7.5 Are there any areas used for Flood Storage within 250m of the study site?	No
7.6 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Very High
7.7 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	High

8. Designated Environmentally Sensitive Sites	on-site	0-50	51-250	251-500	501-1000	1001-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	1	0	0	0	1	3
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	1
8.3 Records of Local Nature Reserves (LNR)	0	0	0	0	0	1
8.4 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.5 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.6 Records of Ramsar sites	0	0	0	0	0	0
8.7 Records of World Heritage Sites	0	0	0	0	0	0
8.8 Records of Environmentally Sensitive Areas	0	0	0	0	0	0
8.9 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.10 Records of National Parks	0	0	0	0	0	0
8.11 Records of Nitrate Sensitive Areas	0	0	0	0	0	0

9. Additional Information	on-site	0-50	51-250	250-500
9.1 Records of mobile phone transmitters	0	0	0	0
9.2 Records of potential sites of OfCom telecommunications masts	0	0	0	0
9.3 Records of transmission lines in proximity to the study site	2	0	0	1

## 10. Natural Hazards

10.1 What is the maximum risk of natural ground subsidence?	High
10.2 Is the property in a radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is in a Radon Affected Area, as between 10 and 30% of properties are above the Action Level
Is the property in an area where radon protection measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	Full radon protective measures are necessary

## 11. Mining

11.1 Are there any coal mining areas within 75m of the study site?	Yes
11.2 What is the risk of subsidence relating to shallow mining within 150m of the study site?	Low-Moderate
11.3 Are there any brine affected areas within 75m of the study site?	No

# Using this Report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between GroundSure and the Client. The document contains the following sections:

## 1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 250m.

## 2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

## 3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

## 4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure underground oil and gas pipelines.

## 5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

## 6. Hydrogeology and Hydrology

Provides information on groundwater vulnerability, soil leaching potential, abstraction licenses, Source Protection Zones (SPZ) and river quality. These searches are conducted using radii of up to 2000m.

## 7. Flooding

Provides information on surface water flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

## 8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas and World Heritage Sites. These searches are conducted using radii of up to 2000m.

## 9. Additional Information

Provides information on records of mobile phone transmitters, potential sites of OfCom telecommunication masts and overhead transmission lines up to 500m.

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### Report Reference: HMD-441-912071

If you would like any further assistance regarding this report then please contact  
GroundSure on (T) 08444 159 000, email: [info@4c.groundsure.com](mailto:info@4c.groundsure.com)

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## 10. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon.

## 11. Mining

Provides information on areas of coal and shallow mining.

## 12. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, GroundSure provide a free Technical Helpline (08444 159000) for further information and guidance.

## Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

# 1. Historical Industrial Sites

## 1.1 Potentially Contaminative Uses identified from High Detail (1:10,000 scale) Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

**Records of sites with a potentially contaminative past land use within 250m of the search boundary: 59**

The following records are not represented on Mapping:

Distance [m]	Direction	Use	Date
0.0	On Site	Unspecified Old Kiln	1949
0.0	On Site	Disused Lime Kiln	1978
0.0	On Site	Nursery	1978
0.0	On Site	Garage	1978
0.0	On Site	Unspecified Old Kiln	1949
0.0	On Site	Sewage Works	1978
0.0	On Site	Unspecified Old Kiln	1949
0.0	On Site	Abattoir	1978
0.0	On Site	Smithy	1902
0.0	On Site	Unspecified Works	1978
0.0	On Site	Unspecified Depot	1978
0.0	On Site	Old Lime Kiln	1883
0.0	On Site	Unspecified Pit	1883
0.0	On Site	Lime Kiln	1883
0.0	On Site	Old Lime Kiln	1932
0.0	On Site	Old Lime Kiln	1932
4.0	SW	Smithy	1883
8.0	SE	Old Lime Kiln	1883
8.0	SE	Old Lime Kiln (B)	1932
21.0	SE	Unspecified Old Kiln	1949
23.0	NW	Unspecified Tank (B)	1949
26.0	SE	Disused Lime Kiln	1978
27.0	SE	Old Lime Kiln	1883
29.0	SE	Old Lime Kiln	1932
42.0	SW	Unspecified Warehouse	1978
42.0	SW	Disused Colliery	1883
47.0	E	Unspecified Pit	1930
48.0	NE	Unspecified Old Kiln	1949
48.0	E	Unspecified Pit	1949
50.0	NE	Old Lime Kiln	1883
51.0	NW	Unspecified Tank	1932
54.0	NE	Disused Lime Kiln	1978
55.0	NE	Old Lime Kiln	1932
68.0	NW	Unspecified Pit	1883
88.0	NW	Rifle Range (B)	1902
101.0	SE	Nursery	1978
106.0	SW	Unspecified Warehouses	1978
183.0	SW	Smithy	1902
185.0	E	Fire Station	1978
206.0	SW	Unspecified Works	1978
207.0	NW	Unspecified Mill (B)	1902
213.0	SW	Tramway Sidings	1883
217.0	SW	Unspecified Pit	1883
217.0	SW	Unspecified Disused Mine	1949
219.0	NW	Pumping Station	1978
223.0	E	Ambulance Station	1978
226.0	SW	Disused Colliery	1902
226.0	SW	Disused Colliery	1930
228.0	N	Unspecified Tank	1949
230.0	N	Unspecified Ground Workings	1883
231.0	E	Disused Coal Pit	1883
232.0	NW	Corn Mill	1883
233.0	N	Unspecified Tank	1932
234.0	N	Unspecified Ground Workings	1932
238.0	SW	Unspecified Tank	1883

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240.0	SW	Unspecified Tank	1902
240.0	SW	Unspecified Tank	1930
246.0	SW	Unspecified Tanks	1949
248.0	SW	Unspecified Tank	1883

## 1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

### Records of historical tanks within 100m of the search boundary:

4

The following records are not represented on Mapping:

Distance (m)	Direction	Use	Date
54.0	NW	Tank (Unspecified)	1932
93.0	SW	Tank (Unspecified)	1981
94.0	SW	Tank (Unspecified)	1971
94.0	SW	Tank (Unspecified)	1978

## 1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

### Records of historical energy features within 100m of the search boundary:

51

The following records are not represented on Mapping:

Distance (m)	Direction	Use	Date
0.0	On Site	Electricity Sub Station	1987
0.0	On Site	Electricity Sub Station	1978
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1987
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1978
0.0	On Site	Electricity Sub Station	1987
0.0	On Site	Electricity Sub Station	1978
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1987
0.0	On Site	Electricity Sub Station	1978
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1987
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1987
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1987
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1978
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1978
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1987
0.0	On Site	Electricity Sub Station	1987
0.0	On Site	Gas Governor	1971

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0.0	On Site	Electricity Sub Station	1971
0.0	On Site	Electricity Sub Station	1987
0.0	On Site	Electricity Sub Station	1989
0.0	On Site	Electricity Sub Station	1989
0.0	On Site	Electricity Sub Station	1989
0.0	On Site	Electricity Sub Station	1989
0.0	On Site	Electricity Sub Station	1989
0.0	On Site	Electricity Sub Station	1981
0.0	On Site	Electricity Sub Station	1981
0.0	On Site	Electricity Sub Station	1981
0.0	On Site	Electricity Sub Station	1981
0.0	On Site	Electricity Sub Station	1981
0.0	On Site	Electricity Sub Station	1981
0.0	On Site	Electricity Sub Station	1981
94.0	SE	Electricity Sub Station	1981
95.0	SE	Electricity Sub Station	1971
95.0	SE	Electricity Sub Station	1971
95.0	SE	Electricity Sub Station	1978
97.0	SE	Electricity Sub Station	1981
99.0	SE	Electricity Sub Station	1971
99.0	SE	Electricity Sub Station	1978
99.0	SE	Electricity Sub Station	1971
99.0	SE	Electricity Sub Station	1987

## 1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

**Records of historical petrol stations and fuel sites within 100m of the search boundary: 0**

Database searched and no data found.

## 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

**Records of historical garage and motor vehicle repair sites within 100m of the search boundary: 1**

The following records are not represented on Mapping:

Distance (m)	Direction	Use	Date
0.0	On Site	Garage	1971

## 1.6 Potentially Infilled Land

**Records of Potentially Infilled Features from 1:10,000 scale mapping within 100m of the study site: 50**

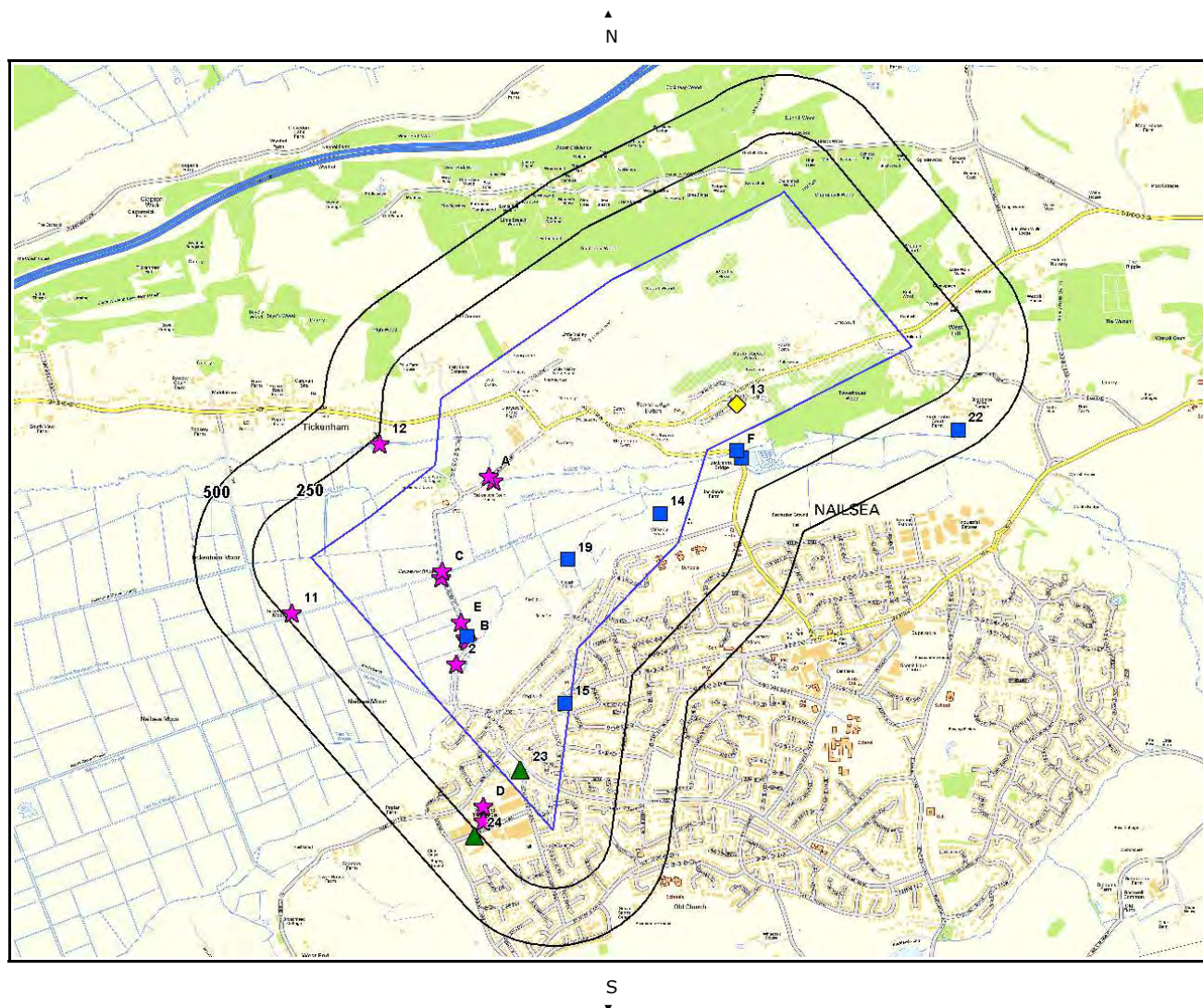
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The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by GroundSure:

Distance [m]	Direction	Use	Date
0.0	On Site	Pond	1932
0.0	On Site	Unspecified Quarry	1949
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Unspecified Quarry	1883
0.0	On Site	Unspecified Quarry	1883
0.0	On Site	Unspecified Quarries	1883
0.0	On Site	Pond	1902
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1949
0.0	On Site	Pond	1902
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1930
0.0	On Site	Unspecified Quarries	1883
0.0	On Site	Unspecified Quarry	1883
0.0	On Site	Unspecified Pit	1883
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Unspecified Quarry (B)	1883
0.0	On Site	Pond	1902
0.0	On Site	Pond	1932
0.0	On Site	Pond	1932
0.0	On Site	Sewage Works	1978
0.0	On Site	Unspecified Quarry	1932
0.0	On Site	Unspecified Old Quarry	1902
0.0	On Site	Pond	1932
0.0	On Site	Pond	1902
0.0	On Site	Pond	1902
0.0	On Site	Pond	1932
0.0	On Site	Unspecified Quarry	1902
0.0	On Site	Pond	1932
5.0	SE	Unspecified Quarry	1902
5.0	SE	Unspecified Quarry	1932
8.0	SE	Unspecified Quarries	1883
14.0	SE	Pond	1932
42.0	SW	Disused Colliery	1883
47.0	E	Unspecified Pit	1930
48.0	E	Unspecified Pit	1949
55.0	SW	Pond	1930
68.0	NW	Unspecified Pit	1883
81.0	SE	Pond	1932
81.0	SE	Pond	1902

## 2. Environmental Permits, Incidents and Registers Map



Authorisations, Incidents and Registers Legend



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	Site Outline		Recorded Pollution Incident		RAS 3 & 4 Authorisations
	Search Buffers (m)		Dangerous Substances (List 1)		Part A(1) Authorised Processes and Historic IPC Authorisations
	250		Dangerous Substances (List 2)		Part A(2) and Part B Authorised Processes
	500		Water Industry Referrals		COMAH / NIHHS Sites
			Licensed Discharge Consents		Sites Determined as Contaminated Land
			Red List Discharge Consents		Hazardous Substance Consents and Enforcements



## 2.Environmental Permits, Incidents and Registers

### 2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

**Records of historic IPC Authorisations within 500m of the study site:** **0**

Database searched and no data found.

**Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:** **0**

Database searched and no data found.

**Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:** **0**

Database searched and no data found.

**Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:** **0**

Database searched and no data found.

**Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:** **0**

Database searched and no data found.

**Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:** **1**

The following List 2 Dangerous Substance Inventory Site records are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance [m]	Direction	NGR	Details
13	0.0	On Site	347030, 171870	Name: Jacklands Br Fish Farm Status: Not Active Receiving Water: - Authorised Substances: Copper

**Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:** **2**

The following Part A(2) and Part B Activities are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance [m]	Direction	NGR	Details
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Report Reference: HMD-441-912071



23	0.0	On Site	346097, 170286	Address: C And C Motors, 6a Hanah More Road, Nailsea, Bs48 4rz Process: Waste Oil Burners Status: Historical Permit	Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified
24	277.0	SW	345900, 170000	Address: Blackfriar Paint Process: Coating & Enamelling Process Status: Historical Permit	Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified

### Records of Category 3 or 4 Radioactive Substance Licences within 500m of the study site:

0

Database searched and no data found.

### Records of Licensed Discharge Consents within 500m of the study site:

9

The following Licensed Discharge Consents records are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance [m]	Direction	NGR	Details	
14	0.0	On Site	346700, 171400	Address: Miltons Farm, Nailsea, Bristol Effluent Type: Agriculture - Arable Farming Permit Number: 080670 Permit Version: 1	Receiving Water: Trib Of River Land Yeo Status: Revoked (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: - Effective Date: 24/7/1969 Revocation Date: 6/2/1998
15	0.0	On Site	346290, 170580	Address: Nailsea, Woodspring Effluent Type: Sewage Discharges - Sewer Storm Overflow - Water Company Permit Number: 070955 Permit Version: 1	Receiving Water: Tickenham Boundary Rhyne Status: Consent Expired - Time Limit Issue date: - Effective Date: 12/9/1989 Revocation Date: 27/2/1998
16E	0.0	On Site	345870, 170870	Address: Kings Hill Combined Sewer Overflow, Kings Hill, Nailsea, Somerset, . Effluent Type: Sewage Discharges - Sewer Storm Overflow - Water Company Permit Number: 100500/CS/01 Permit Version: 1	Receiving Water: Tickenham Boundary Rhyne Status: Consent Revoked - Discharge Ceased (section 37(1)) Issue date: 15/4/1998 Effective Date: 15/4/1998 Revocation Date: -
17B	0.0	On Site	345870, 170870	Address: Kings Hill Cso, Kings Hill, Nailsea, Somerset, . Effluent Type: Sewage Discharges - Sewer Storm Overflow - Water Company Permit Number: 100500 Permit Version: 1	Receiving Water: Tickenham Boundary Rhyne Status: Consent Revoked - Discharge Ceased (section 37(1)) Issue date: 27/2/1998 Effective Date: 27/2/1998 Revocation Date: -
18B	0.0	On Site	345870, 170870	Address: Kings Hill Cso, Kings Hill, Nailsea, Somerset, . Effluent Type: Sewage Discharges - Sewer Storm Overflow - Water Company Permit Number: 103741 Permit Version: 1	Receiving Water: Twickenham Boundary Rhyne(s) Status: Revoked (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 4/5/2007 Effective Date: 4/5/2007 Revocation Date: -
19	0.0	On Site	346300, 171200	Address: Heath Farm(nailsea), Nailsea, Bristol, Avon Effluent Type: Agriculture - Arable Farming Permit Number: 080668 Permit Version: 1	Receiving Water: Trib Of River Land Yeo Status: Revoked (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: - Effective Date: 24/7/1969 Revocation Date: -
20F	62.0	SE	347030, 171670	Address: Jacklands Bridge Fish Farm, Tickenham, Bristol Effluent Type: Agriculture - Fish Farming - Water Company Permit Number: 070742 Permit Version: 1	Receiving Water: River Land Yeo Status: New Consent, By Application (wra 91, Section 113 & Sched 12) Issue date: - Effective Date: 22/5/1990 Revocation Date: -

21F	97.0	SE	347050, 171640	Address: Jacklands Bridge Fish Farm, Tickenham, Bristol Effluent Type: Agriculture - Fish Farming - Water Company Permit Number: 070742 Permit Version: 1	Receiving Water: River Land Yeo Status: New Consent, By Application (wra 91, Section 113 & Sched 12) Issue date: - Effective Date: 22/5/1990 Revocation Date: -
22	413.0	SE	347980, 171760	Address: Birdcombe Farm(Bristol), Wraxall, Bristol, Avon Effluent Type: Agriculture - Arable Farming Permit Number: 081239 Permit Version: 1	Receiving Water: Trib Of River Land Yeo Status: Transferred From R(pp)a 1951-1961 Issue date: - Effective Date: 23/4/1974 Revocation Date: -

## Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site: 0

Database searched and no data found.

## 2.2 Dangerous or Hazardous Sites

### Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

## 2.3 Environment Agency Recorded Pollution Incidents

### Records of National Incidents Recording System, List 2 within 250m of the study site: 12

The following NIRS List 2 records are represented as points on the Authorisations, Incidents and Registers Map:

ID	Distance [m]	Direction	NGR	Details
1A	0.0	On Site	345960, 171562	Incident Date: 30/4/2002 Incident Identification: 75744 Pollutant: Sewage Materials Pollutant Description: Crude Sewage Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
2	0.0	On Site	345820, 170750	Incident Date: 16/12/2002 Incident Identification: 126404 Pollutant: Sewage Materials Pollutant Description: Storm Sewage Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3C	0.0	On Site	345760, 171150	Incident Date: 23/12/2001 Incident Identification: 49436 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4B	0.0	On Site	345870, 170850	Incident Date: 23/12/2004 Incident Identification: 284637 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents Water Impact: Category 1 (Major) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
5A	0.0	On Site	345980, 171540	Incident Date: 19/4/2001 Incident Identification: 2795 Pollutant: Sewage Materials Pollutant Description: Crude Sewage Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
6E	0.0	On Site	345839, 170932	Incident Date: 26/6/2002 Incident Identification: 87468 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7B	0.0	On Site	345861, 170864	Incident Date: 6/1/2003 Incident Identification: 129511 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
8C	0.0	On Site	345755, 171124	Incident Date: 8/7/2002 1 Incident Identification: 89923 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

9D	160.0	SW	345936, 170135	Incident Date: 5/11/2004 Incident Identification: 276095 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
10 D	201.0	SW	345936, 170073	Incident Date: 15/1/2003 Incident Identification: 131154 Pollutant: Oils and Fuel Pollutant Description: Lubricating Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
11	223.0	SW	345115, 170969	Incident Date: 27/3/2002 Incident Identification: 67299 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Algae	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
12	223.0	NW	345489, 171700	Incident Date: 14/8/2002 Incident Identification: 100148 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

#### Records of National Incidents Recording System, List 1 within 250m of the study site:

0

Database searched and no data found.

## 2.4 Sites Determined as Contaminated Land under Part IIA EPA 1990<sup>1</sup>

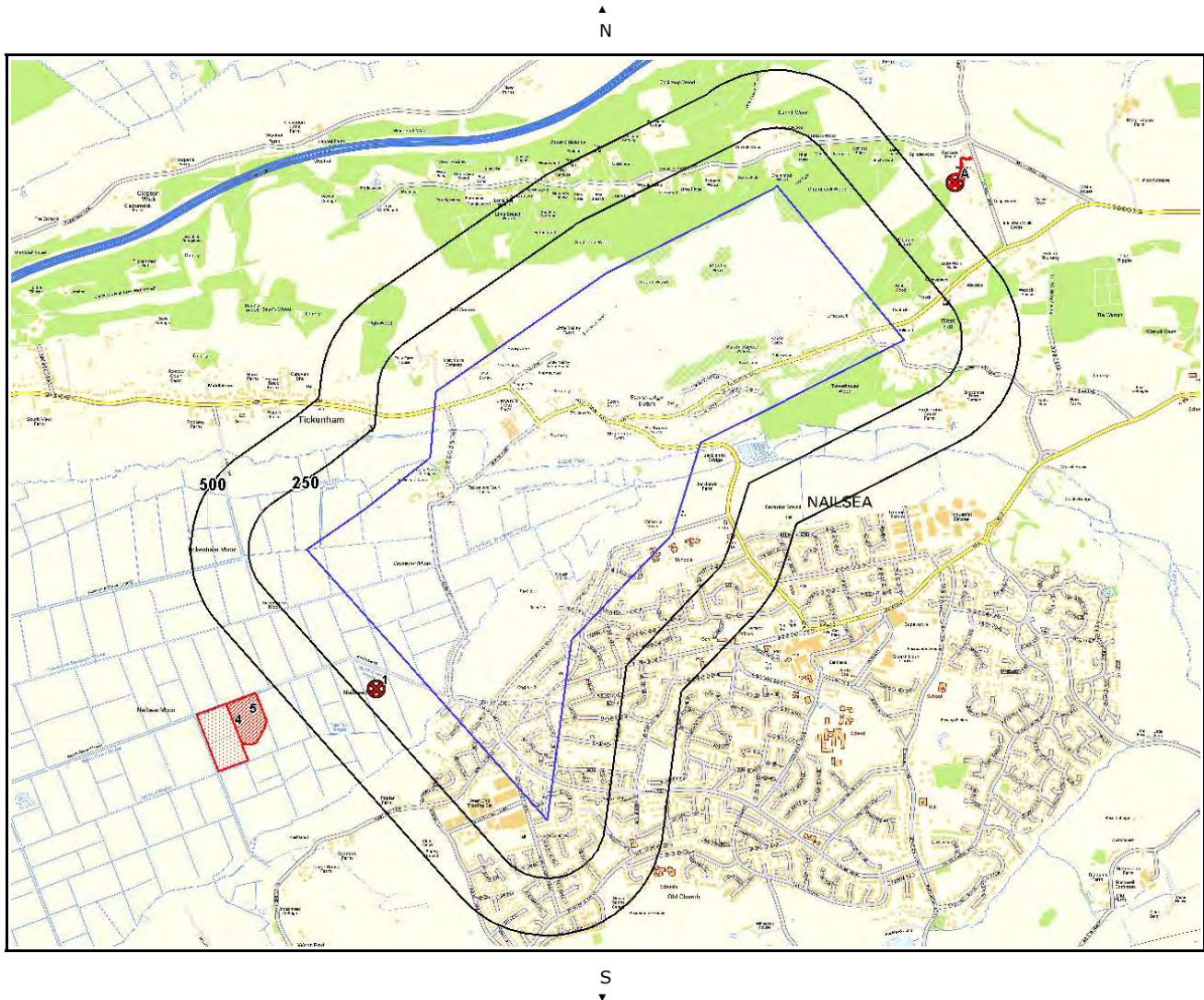
#### How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site?

0

Database searched and no data found.

<sup>1</sup>Further information on sites that have been determined under the Contaminated Land Regime is maintained by Local Authorities under Section 78R of the Environmental Protection Act 1990. Information should be available on both sites currently determined as Contaminated Land and Special Sites.

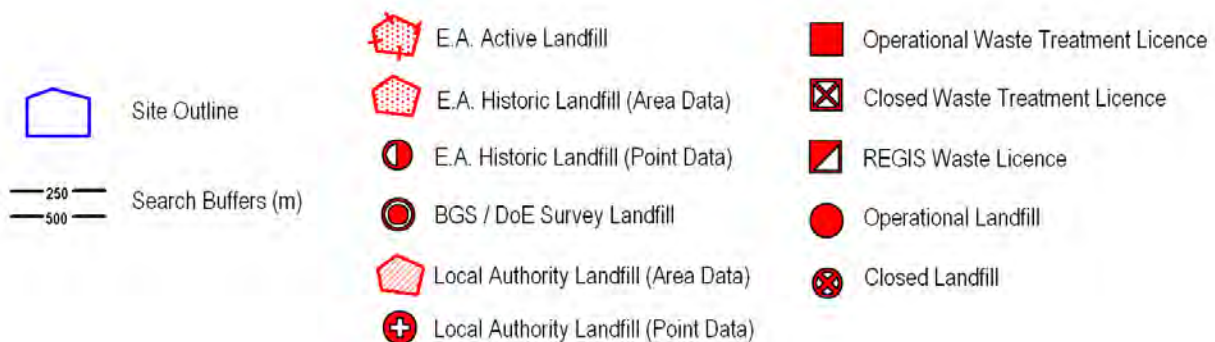
### 3. Landfill and Other Waste Sites Map



Landfill & Other Waste Sites Legend

Mapping sourced from  
**Ordnance Survey**

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## 3. Landfill and Other Waste Sites

### 3.1 Landfill Sites

**Records from Environment Agency landfill data within 1000m of the study site:** 0

Database searched and no data found.

**Records of operational landfill sites sourced from Landmark within 1000m of the study site:** 0

Database searched and no data found.

**Records of Environment Agency historic landfill sites within 1500m of the study site:** 2

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	NGR	Details
3A	574.0	NE	348000, 172800	Site Address: Old Quarry to The Rear Of Hunters Croft, Cuckoo Lane, Wraxall, Bristol, Avon Waste Licence: Yes Site Reference: L/WG/T/93 Waste Type: Inert, Industrial Regis Reference: - Licence Issue: 18-Nov-1980 Licence Surrendered: 31-Dec-1983 Licence Hold Address: Hunters Croft, Cuckoo Lane, Wraxall, Bristol Operator: -
4	577.0	SW	344800, 170400	Site Address: North Drove, Nailsea Moor, Nailsea, Bristol, Avon Waste Licence: Yes Site Reference: L/WG/T/20 Waste Type: Inert Regis Reference: - Licence Issue: 20-Mar-1977 Licence Surrendered: 21-May-1987 Licence Hold Address: 12 Barns Close, Nailsea, Bristol, Avon Operator: -

**Records of non-operational landfill sites sourced from Landmark within 1000m of the study site:** 2

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	NGR	Details
1	179.0	SW	345500, 170600	Site Address: North Drove, Nailsea Moor, Nailsea, BRISTOL, Avon Landfill Licence: 01FAFKAL Agency Reference: Waste Type: Non-Hazardous Waste Description: Non-Hazardous Landfill Known Restrictions: No known restriction on source of waste Record Date: 01-Mar-1978 Transfer Date: Modification Date: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - South West Region - North Wessex Area (Bridgwater) Size: Undefined
2A	598.0	NE	348000, 172800	Site Address: Hunters Croft, Cuckoo Lane, Wraxall, BRISTOL, Avon Landfill Licence: 01FADHAL Agency Reference: Waste Type: Non-Hazardous Waste Description: Non-Hazardous Landfill Known Restrictions: No known restriction on source of waste Record Date: 01-Nov-1980 Transfer Date: Modification Date: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - South West Region - North Wessex Area (Bridgwater) Size: Undefined

**Records of BGS/DoE non-operational landfill sites within 1500m of the study site:** 0

Database searched and no data found.

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**Records of Local Authority landfill sites within 1500m of the study site:****1**

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	Site Address	Source	Data Type
5	577.0	SW	Refuse Tip	1976 mapping	Polygon

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## 3.2 Other Waste Sites

**Records of operational waste treatment, transfer or disposal sites within 500m of the study site:****0**

Database searched and no data found.

---

**Records of non-operational waste treatment, transfer or disposal sites within 500m of the study site:****0**

Database searched and no data found.

---

**Records of Environment Agency licensed waste sites within 1500m of the study site:****0**

Database searched and no data found.

---

## 4. Current Land Use Map

NW

N

NE

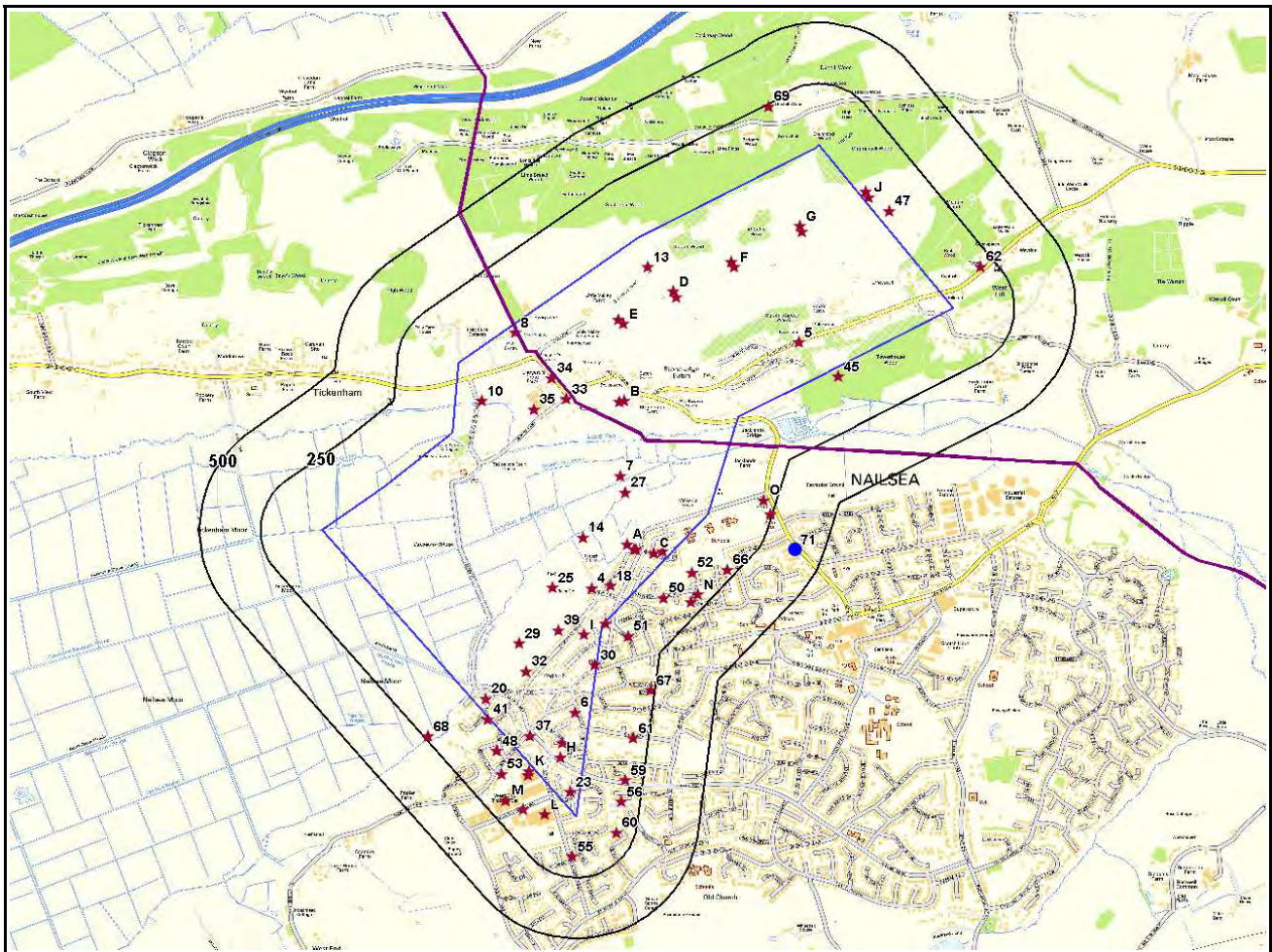
W

E

SW

S

SE



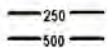
Current Land Use Legend



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Site Outline



Search Buffers (m)



Current Industrial Sites



Petrol & Fuel Sites



Underground High Pressure Oil & Fuel Pipelines

## 4. Current Land Uses

### 4.1 Current Industrial Data

**Records of potentially contaminative industrial sites within 250m of the study site:**

**70**

The following records are represented as points on the Current Land Uses map.

ID	Distance [m]	Direction	Company	Address	Activity	Category
1F	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
2E	0.0	On Site	Pylon	BS21	Electrical Features	Infrastructure and Facilities
3A	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
4	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
5	0.0	On Site	Electricity Sub Station	BS21	Electrical Features	Infrastructure and Facilities
6	0.0	On Site	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
7	0.0	On Site	Pylon	BS21	Electrical Features	Infrastructure and Facilities
8	0.0	On Site	Silo	BS21	Hoppers and Silos	Farming
9 D	0.0	On Site	Pylon	BS21	Electrical Features	Infrastructure and Facilities
10	0.0	On Site	Pipeline	BS21	Pipelines	Industrial Features
11 G	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
12 B	0.0	On Site	Pylon	BS21	Electrical Features	Infrastructure and Facilities
13	0.0	On Site	Lime Kiln (Disused)	BS21	Lime Kilns	Industrial Features
14	0.0	On Site	Pylon	BS21	Electrical Features	Infrastructure and Facilities
15 A	0.0	On Site	Gas Governor	BS48	Gas Features	Infrastructure and Facilities
16 B	0.0	On Site	Pylon	BS21	Electrical Features	Infrastructure and Facilities
17 H	0.0	On Site	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
18	0.0	On Site	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
19 C	0.0	On Site	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
20	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
21 C	0.0	On Site	Executive Car Service	23, Greenslade Gardens, Nailsea, Bristol, BS48 2BJ	Vehicle Hire and Rental	Hire Services
22 A	0.0	On Site	Gas Governor Station	BS48	Gas Features	Infrastructure and Facilities
23	0.0	On Site	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
24 D	0.0	On Site	Pylon	BS21	Electrical Features	Infrastructure and Facilities
25	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
26 I	0.0	On Site	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
27	0.0	On Site	Pylon	BS21	Electrical Features	Infrastructure and Facilities
28 E	0.0	On Site	Pylon	BS21	Electrical Features	Infrastructure and Facilities
29	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
30	0.0	On Site	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
31 F	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
32	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities

Report Reference: HMD-441-912071

33	0.0	On Site	Tickenham Garage	Stone-Edge Batch, Tickenham, Clevedon, BS21 6SE	Vehicle Repair, Testing and Servicing	Repair and Servicing
34	0.0	On Site	Clevedon Metal Products	Tickenham Forge, Stone-edge Batch, Tickenham, Clevedon, BS21 6SE	Fences, Gates and Railings	Industrial Products
35	0.0	On Site	Tank	BS21	Tanks (Generic)	Industrial Features
36 G	0.0	On Site	Pylon	BS20	Electrical Features	Infrastructure and Facilities
37	0.0	On Site	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
38 H	0.0	On Site	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
39	0.0	On Site	Pylon	BS48	Electrical Features	Infrastructure and Facilities
40 I	4.0	SE	P K Sports Cars	Newlands, Pound Lane, Nailsea, Bristol, BS48 2AT	Vehicle Repair, Testing and Servicing	Repair and Servicing
41	8.0	SW	Pylon	BS48	Electrical Features	Infrastructure and Facilities
42 J	19.0	NE	Pylon	BS48	Electrical Features	Infrastructure and Facilities
43 K	23.0	SW	Owlett-jaton	Hannah More Road, Nailsea, Bristol, BS48 4RZ	General Construction Supplies	Industrial Products
44 J	25.0	NE	Pylon	BS48	Electrical Features	Infrastructure and Facilities
45	36.0	SE	Lime Kiln (Disused)	BS21	Lime Kilns	Industrial Features
46 K	39.0	SW	Depot	BS48	Container and Storage	Transport, Storage and Delivery
47	47.0	NE	Lime Kiln (Disused)	BS48	Lime Kilns	Industrial Features
48	68.0	SW	Wessex Farm Cleaning	5, Fir Leaze, Nailsea, Bristol, BS48 4DH	Agricultural Contractors	Contract Services
49 L	94.0	SW	Brabantia UK Ltd	Blackfriars Road, Nailsea, Bristol, BS48 4SB	Carpets, Flooring, Rugs and Soft Furnishings	Consumer Products
50	104.0	SE	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
51	106.0	SE	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
52	117.0	SE	Kwik Courier	6 Knightswood, Moor End Spout, Nailsea, Bristol, BS48 2DA	Waste Storage, Processing and Disposal	Infrastructure and Facilities
53	117.0	SW	Stone Castle Publications Ltd	59a, North Street, Nailsea, Bristol, BS48 4BS	Published Goods	Industrial Products
54 L	148.0	SW	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
55	165.0	S	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
56	173.0	E	Control Concepts Ltd	36, Church Lane, Nailsea, Bristol, BS48 4NG	Instrumentation Engineers	Engineering Services
57 M	174.0	SW	C C Motors Ltd	Unit 2 Blackfriars Road, Nailsea, Bristol, BS48 4DJ	Vehicle Repair, Testing and Servicing	Repair and Servicing
58 M	174.0	SW	Gould Autoplates & Signs Ltd	Unit 6, Blackfriars Road, Nailsea, Bristol, BS48 4DJ	Vehicle Components	Industrial Products
59	175.0	E	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
60	175.0	E	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
61	184.0	E	J F Computer Services	31, Ridgeway, Nailsea, Bristol, BS48 2EG	Electrical Equipment Repair and Servicing	Repair and Servicing
62	190.0	NE	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
63 N	197.0	SE	Pro-sense UK Ltd	5 Cricket Field Green, Moor End Spout, Nailsea, Bristol, BS48 2DB	Electronic Equipment	Industrial Products
64 N	197.0	SE	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
65 O	199.0	E	Nailsea Fire Station	Fire Station, Pound Lane, Nailsea, Bristol, BS48 2NN	Fire Brigade Stations	Central and Local Government
66	212.0	SE	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities

67	231.0	E	Electricity Sub Station	BS48	Electrical Features	Infrastructure and Facilities
68	238.0	SW	Pylon	BS48	Electrical Features	Infrastructure and Facilities
69	241.0	NW	Tank	BS20	Tanks (Generic)	Industrial Features
70 O	243.0	E	Nailsea Ambulance Station	Pound Lane, Nailsea, Bristol, BS48 2NN	Ambulance and Medical Transportation Services	Health Support Services

## 4.2 Petrol and Fuel Sites

### Records of petrol or fuel sites within 500m of the study site:

1

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance [m]	Direction	NGR	Company	Address	LPG	Status
71	384.0	E	347133, 171129	Obsolete	Performance & 4x4 Centre, 23, Clevedon Road, Clevedon Road, Nailsea, Bristol, Somerset, BS48 1EW	Not Applicable	Obsolete

## 4.3 Underground High Pressure Oil and Gas Pipelines

### Records of high pressure underground pipelines within 500m of the study site:

1

The following Underground High Pressure Oil and Gas pipeline records provided by Linewatch are represented as linear features on the Current Land Use map:

ID	Distance [m]	Direction	Address	Operator	Telephone
72	0.0	On Site	GPSS, PO Box 7273, Ashby De La Zouch, LE65 2BY	GPSS Aldermaston pipelines	0845 070 1245



## 5. Geology

### 5.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

### 5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
PEAT-P	PEAT	PEAT
ALV-CSSG	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
TFD-CLSI	TIDAL FLAT DEPOSITS	CLAY AND SILT

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

### 5.3 Bedrock and Solid Geology

The database has been searched on site, including a 50m buffer.

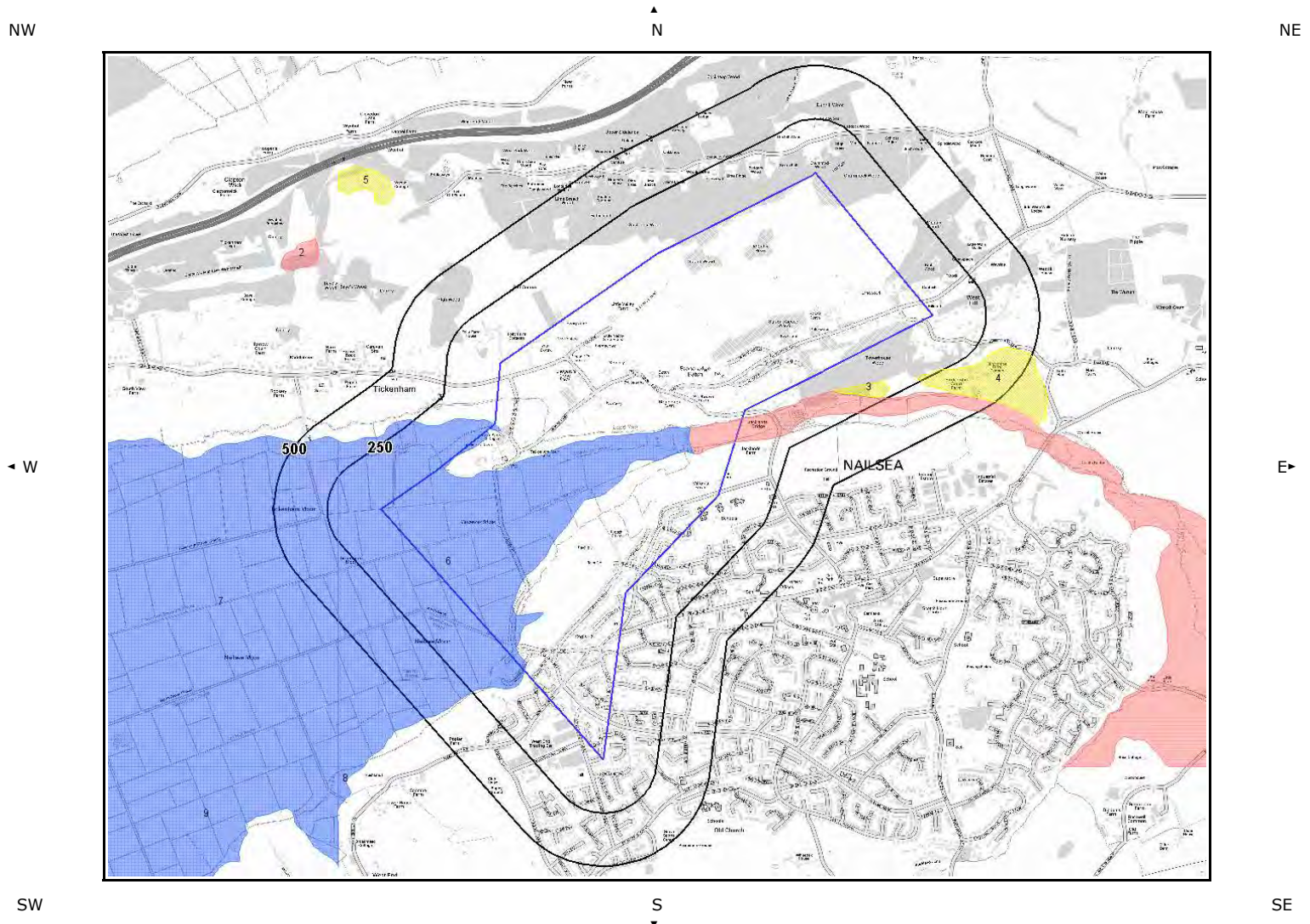
LEX Code	Description	Rock Type
CDM-DLMD	CLIFTON DOWN MUDSTONE FORMATION	DOLOMITE-MUDSTONE
GCO-OOLM	GOBLIN COMBE OOLITE FORMATION	OIDAL LIMESTONE
CDM-DLMD	CLIFTON DOWN MUDSTONE FORMATION	DOLOMITE-MUDSTONE
GCO-OOLM	GOBLIN COMBE OOLITE FORMATION	OIDAL LIMESTONE
GUO-OOLM	GULLY OOLITE FORMATION	OIDAL LIMESTONE
MMG-MDHA	MERCIA MUDSTONE GROUP	MUDSTONE AND HALITE-STONE
BRL-DLDO	BLACK ROCK LIMESTONE SUBGROUP	DOLOMITISED LIMESTONE AND DOLOMITE
CDL-LMST	CLIFTON DOWN LIMESTONE FORMATION	LIMESTONE
GUO-OOLM	GULLY OOLITE FORMATION	OIDAL LIMESTONE
CDM-DLMD	CLIFTON DOWN MUDSTONE FORMATION	DOLOMITE-MUDSTONE
MMG-MDHA	MERCIA MUDSTONE GROUP	MUDSTONE AND HALITE-STONE
GCO-OOLM	GOBLIN COMBE OOLITE FORMATION	OIDAL LIMESTONE
CDM-BALA	CLIFTON DOWN MUDSTONE FORMATION	BASALTIC LAVA
MMG-MDHA	MERCIA MUDSTONE GROUP	MUDSTONE AND HALITE-STONE
DN-SDST	DOWNEND MEMBER	SANDSTONE
CDM-DLMD	CLIFTON DOWN MUDSTONE FORMATION	DOLOMITE-MUDSTONE
GCO-OOLM	GOBLIN COMBE OOLITE FORMATION	OIDAL LIMESTONE
GCO-OOLM	GOBLIN COMBE OOLITE FORMATION	OIDAL LIMESTONE
CDL-LMST	CLIFTON DOWN LIMESTONE FORMATION	LIMESTONE
GUO-OOLM	GULLY OOLITE FORMATION	OIDAL LIMESTONE
SWLMC-SDST	SOUTH WALES LOWER COAL MEASURES FORMATION AND SOUTH WALES MIDDLE COAL MEASURES FORMATION (UNDIFFERENTIATED)	SANDSTONE
DN-SDST	DOWNEND MEMBER	SANDSTONE
DN-SDST	DOWNEND MEMBER	SANDSTONE
DN-MDSS	DOWNEND MEMBER	MUDSTONE, SILTSTONE AND SANDSTONE
DN-MDSS	DOWNEND MEMBER	MUDSTONE, SILTSTONE AND SANDSTONE
SWLMC-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION AND SOUTH WALES MIDDLE COAL MEASURES FORMATION (UNDIFFERENTIATED)	MUDSTONE, SILTSTONE AND SANDSTONE
SWLMC-SDST	SOUTH WALES LOWER COAL MEASURES FORMATION AND SOUTH WALES MIDDLE COAL MEASURES FORMATION (UNDIFFERENTIATED)	SANDSTONE
SWLMC-SDST	SOUTH WALES LOWER COAL MEASURES FORMATION AND SOUTH WALES MIDDLE COAL MEASURES FORMATION (UNDIFFERENTIATED)	SANDSTONE

SWLMC-SDST	SOUTH WALES LOWER COAL MEASURES FORMATION AND SOUTH WALES MIDDLE COAL MEASURES FORMATION (UNDIFFERENTIATED)	SANDSTONE
SWLMC-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION AND SOUTH WALES MIDDLE COAL MEASURES FORMATION (UNDIFFERENTIATED)	MUDSTONE, SILTSTONE AND SANDSTONE
BRL-LMST	BLACK ROCK LIMESTONE SUBGROUP	LIMESTONE
DN-MDSS	DOWNEND MEMBER	MUDSTONE, SILTSTONE AND SANDSTONE
MMMF-CONG	MERCIA MUDSTONE GROUP (MARGINAL FACIES)	CONGLOMERATE

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

For more detailed geological and ground stability data please refer to the "GroundSure Geology and Ground Stability Report". Available from our website.

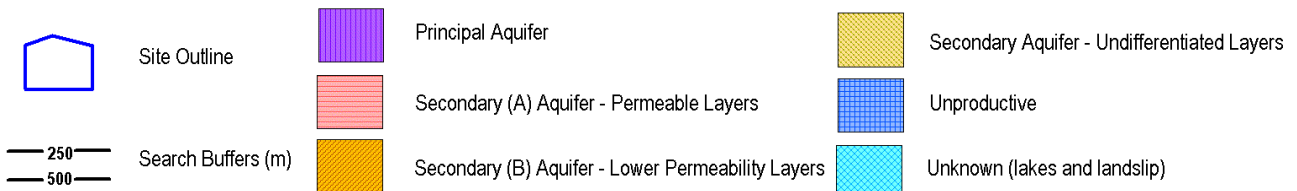
## 6a. Hydrogeology - Aquifer Within Superficial Geology



Aquifer Within Superficial Geology Legend

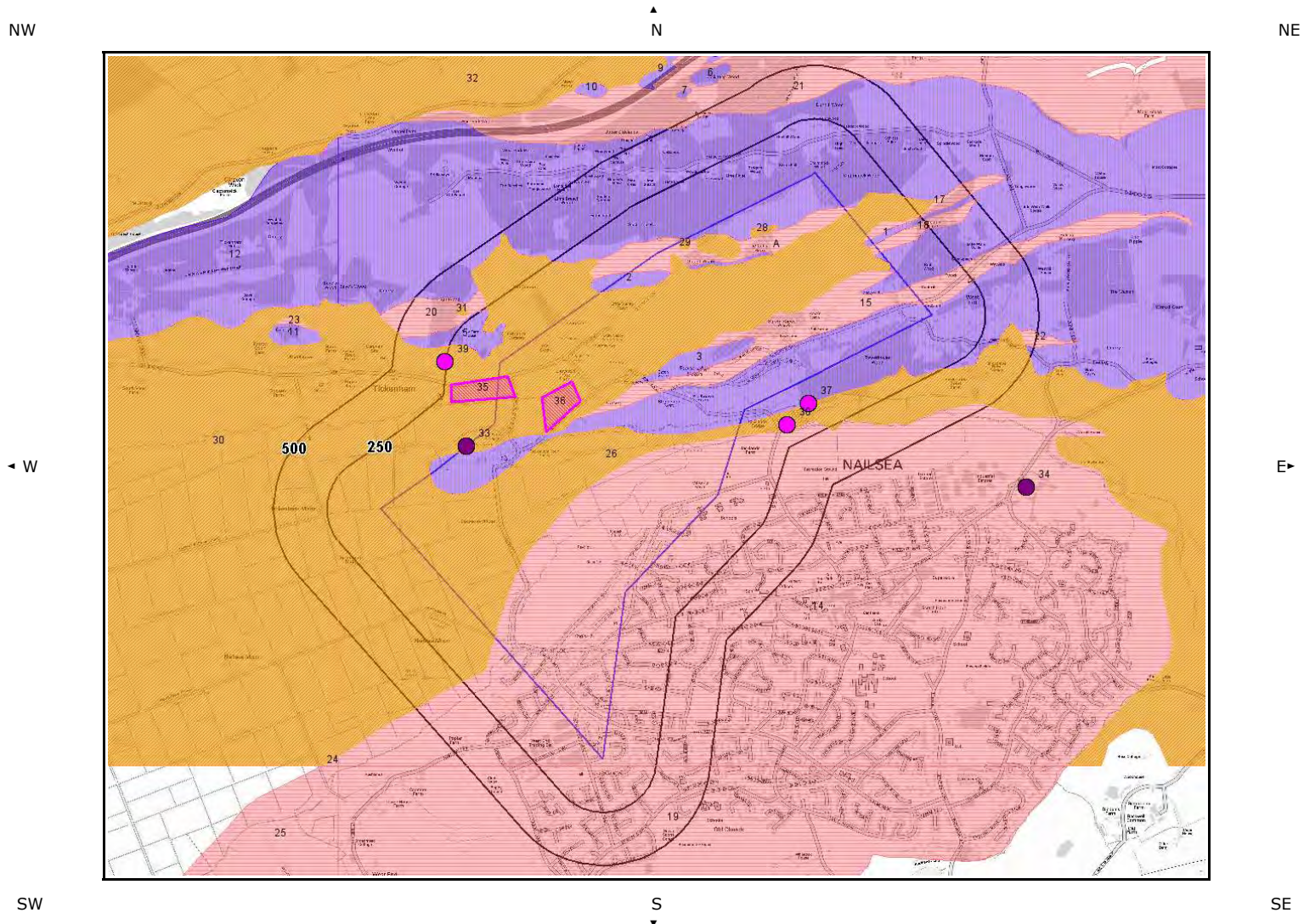
Mapping sourced from Ordnance Survey

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## 6b. Hydrogeology - Aquifer Within Bedrock Geology and Abstraction Licenses



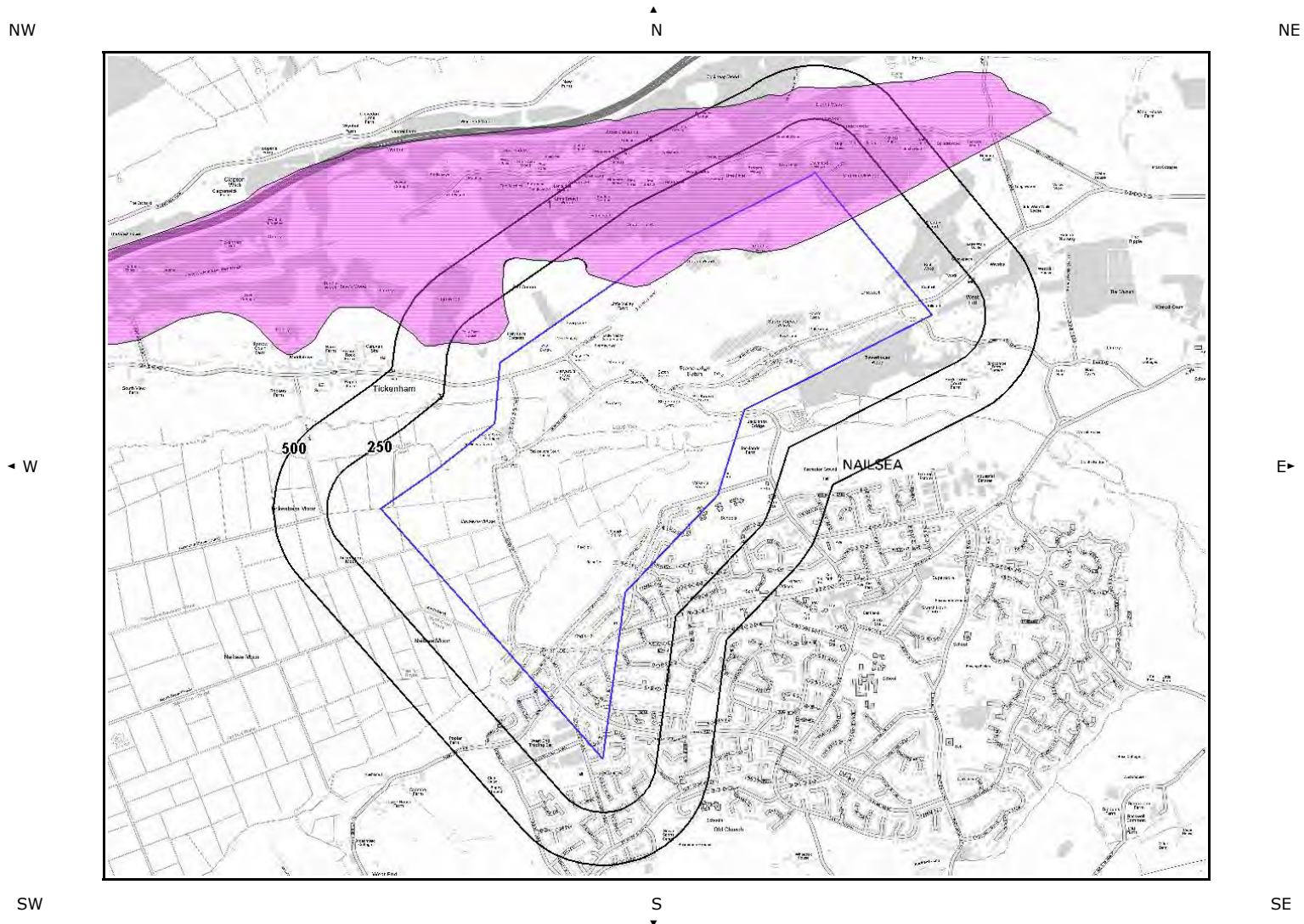
Aquifer Within Bedrock Geology Legend

Mapping sourced from  
 Ordnance Survey

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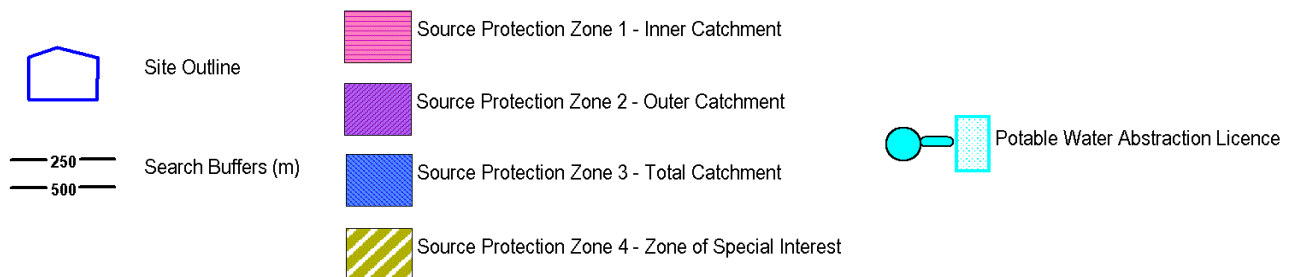
## 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



SPZ and Potable Water Abstraction Licenses  
Legend

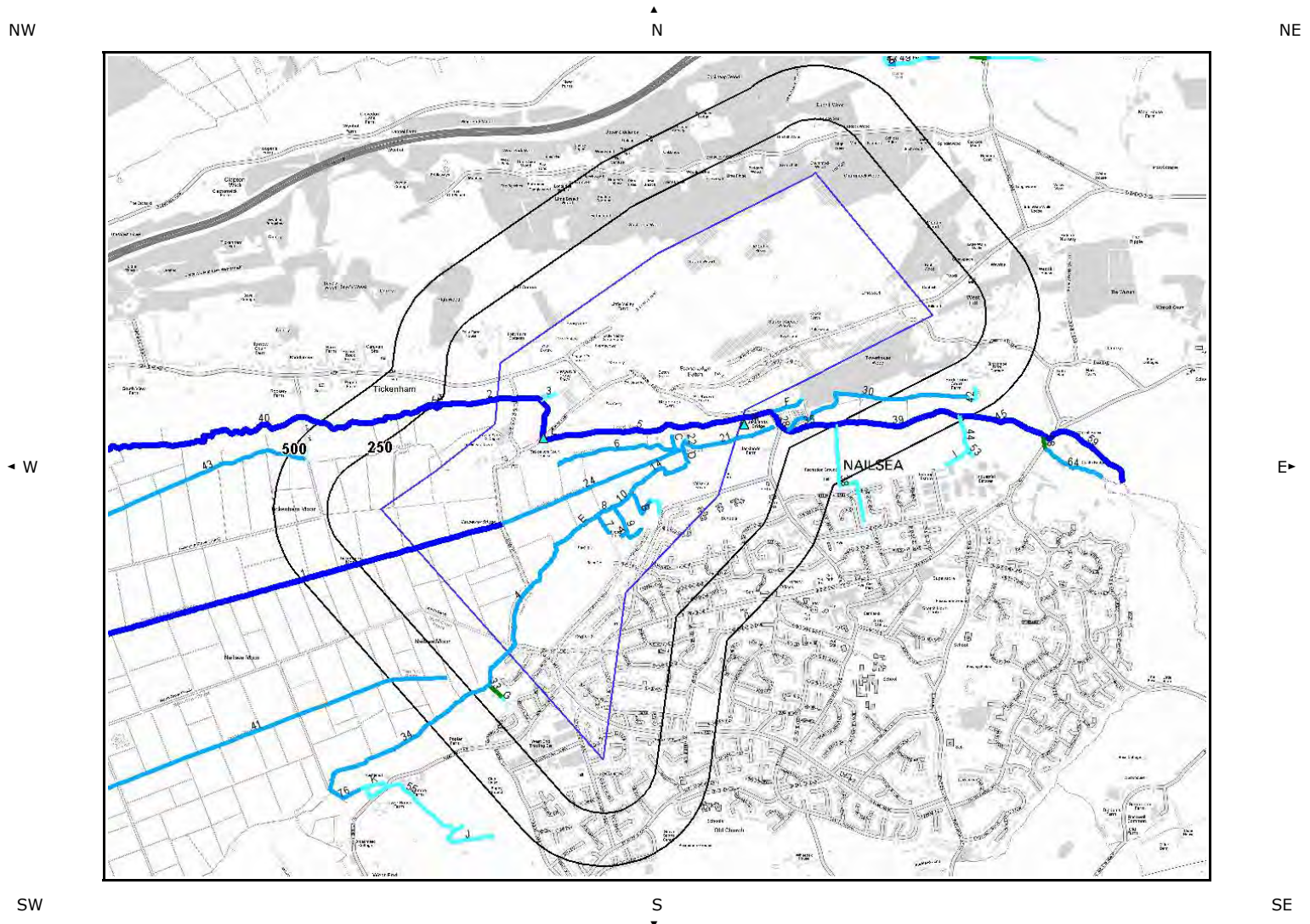


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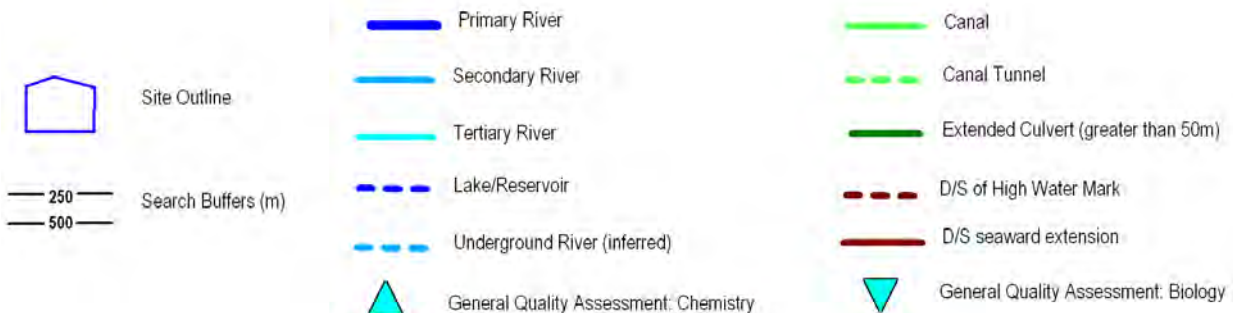
## 6d. Hydrology – Detailed River Network and River Quality



Hydrology Legend

Mapping sourced from **Ordnance Survey**

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## 6. Hydrogeology and Hydrology

### 6.1 Aquifer within Superficial Deposits

**Are there records of productive strata within the superficial geology at or in proximity to the property?**

**Yes**

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (5a):

ID	Distance [m]	Direction	Designation	Description
1	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	0.0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
3	105.0	SE	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	199.0	W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	225.0	SE	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

### 6.2 Aquifer within Bedrock Deposits

**Are there records of productive strata within the bedrock geology at or in proximity to the property?** **Yes**

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (5b):

ID	Distance [m]	Direction	Designation	Description
1	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
3	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

ID	Distance [m]	Direction On Site	Designation	Description
14	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
15	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
16A	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
17	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
18	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
26	0.0	On Site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
27A	0.0	On Site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
28	0.0	On Site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
29	0.0	On Site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
19	32.0	S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	60.0	NW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
30	199.0	W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
20	246.0	NW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
31	277.0	NW	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
21	337.0	N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
22	415.0	E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

## 6.3 Groundwater Abstraction Licences

**Are there any Groundwater Abstraction Licences within 1000m of the study site?**

**Yes**

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance	Direction	NGR	Details	
33	0.0	On Site	345600, 171500	Licence No: 16/52/015/G/029 Details: General Farming & Domestic Direct Source: Ground Water - Fresh Point: Tickenham Data Type: Point	Annual Volume (m³): 2387 Max Daily Volume (m³): 15.9 Original Application No: 16/52/015/G/029 Original Start Date: 1/11/1970 Expiry Date: - Issue No: 100 Version Start Date: 1/11/1970 Version End Date:
34	923.0	SE	348220, 171310	Licence No: 16/52/015/G/042 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - Fresh Point: Wraxall Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 18/6/1998 Expiry Date: - Issue No: 100 Version Start Date: 18/6/1998 Version End Date:

## 6.4 Surface Water Abstraction Licences

**Are there any Surface Water Abstraction Licences within 1000m of the study site?**

**Yes**

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance	Direction	NGR	Details	
35	0.0	On Site	345530, 171792	Licence No: 16/52/015/S/001 Details: Spray Irrigation - Direct Direct Source: Surface Water - Fresh Point: Land Yeo And Associated Ditch System (os No 156 Old Series) Data Type: Region	Annual Volume (m³): 21000 Max Daily Volume (m³): 500 Application No: 16/52/015/S/001 Original Start Date: 1/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2005 Version End Date:
36	0.0	On Site	345953, 171730	Licence No: 16/52/015/S/001 Details: Spray Irrigation - Direct Direct Source: Surface Water - Fresh Point: Land Yeo And Associated Ditch System (os No 238 Old Series) Data Type: Region	Annual Volume (m³): 21000 Max Daily Volume (m³): 500 Application No: 16/52/015/S/001 Original Start Date: 1/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2005 Version End Date:
37	111.0	SE	347200, 171700	Licence No: 16/52/015/S/039 Details: Fish Farm/Cress Pond Throughflow Direct Source: Surface Water - Fresh Point: Unnamed Tributary Of The Land Yeo Data Type: Point	Annual Volume (m³): 158112 Max Daily Volume (m³): 432 Application No: - Original Start Date: 8/12/1993 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2005 Version End Date:
38	156.0	SE	347100, 171600	Licence No: 16/52/015/S/035 Details: Fish Farm/Cress Pond Throughflow Direct Source: Surface Water - Fresh Point: Parish Brook Data Type: Point	Annual Volume (m³): 791000 Max Daily Volume (m³): 2160 Application No: 16/52/015/S/035 Original Start Date: 25/3/1991 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2005 Version End Date:



39	257.0	W	345500, 171900	Licence No: 16/52/015/S/001 Details: Spray Irrigation - Direct Direct Source: Surface Water - Fresh Point: River Yeo Data Type: Point	Annual Volume (m <sup>3</sup> ): 21000 Max Daily Volume (m <sup>3</sup> ): 500 Application No: 16/52/015/S/001 Original Start Date: 1/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2005 Version End Date:
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## 6.5 Potable Water Abstraction Licences

**Are there any Potable Water Abstraction Licences within 2000m of the study site?**

**No**

Database searched and no data found.

## 6.6 Source Protection Zones

**Are there any Source Protection Zones within 500m of the study site?**

**Yes**

The following Source Protection Zones records are represented on the SPZ and Potable Water Abstraction Map (5c):

ID	Distance	Direction	Type	Description
1	0.0	On Site	1	Inner Catchment
2	130.0	NW	3	Total Catchment
3	354.0	NW	3	Total Catchment

## 6.7 River Quality

**Is there any Environment Agency information on river quality within 1500m of the study site?**

**Yes**

### Biological Quality:

Database searched and no data found.

### Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAH). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (5d):

ID	Distance [m]	Direction	NGR	River Details	Chemical Quality Grade (Headline Indicator)				
					2005	2006	2007	2008	2009
81L	0.0	On Site	345961, 171539	River Name: Land Yeo Reach: Nailsea-clevedon End/Start of Stretch: Sample Point NGR	B	B	B	B	A
82L	0.0	On Site	345961, 171539	River Name: Land Yeo Reach: Source-nailsea End/Start of Stretch: Sample Point NGR	B	B	B	B	A



83M	20.0	E	346900, 171600	River Name: Land Yeo Reach: Source-nailsea End/Start of Stretch: End of Stretch NGR	B	B	B	B	A
84M	20.0	E	346900, 171600	River Name: Land Yeo Reach: Nailsea-clevedon End/Start of Stretch: Start of Stretch NGR	B	B	B	B	A

## 6.8 Detailed River Network

**Are there any Detailed River Network entries within 500m of the study site?**

**Yes**

The following Detailed River Network records are represented on the Hydrology Map (5d):

ID	Distance	Direction	Details	
1	0.0	On Site	River Name: Tickenham Water Course Name: Tickenham Boundary Rhyne Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
2	0.0	On Site	River Name: Land Yeo Water Course Name: Land Yeo Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
3	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
4	0.0	On Site	River Name: Parish Brook Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
5	0.0	On Site	River Name: Land Yeo Water Course Name: Land Yeo Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
6	0.0	On Site	River Name: Middle Yeo Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
7	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
8	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
9	0.0	On Site	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
10	0.0	On Site	River Name: Parish Brook Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
11A	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
12A	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
13B	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
14	0.0	On Site	River Name: Parish Brook Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined

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15B	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
16C	0.0	On Site	River Name: Middle Yeo Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
17C	0.0	On Site	River Name: Moorend Spout Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
18C	0.0	On Site	River Name: Moorend Spout Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
19D	0.0	On Site	River Name: Moorend Spout Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
20C	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
21	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
22	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
23D	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
24	0.0	On Site	River Name: Middle Yeo Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
25E	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
26E	0.0	On Site	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
27F	66.0	SE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
28	66.0	SE	River Name: - Water Course Name: Land Yeo Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
29F	68.0	SE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
30	119.0	SE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
31G	161.0	SW	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
32G	163.0	SW	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Extended Culvert (greater than 50m) Catchment: - Drain: NO Main River Status: Currently Undefined
33	168.0	SW	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
34	169.0	SW	River Name: Parish Brook Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined

35	173.0	SE	River Name: Land Yeo Water Course Name: Land Yeo Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
36H	226.0	NW	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
37H	231.0	NW	River Name: - Water Course Name: Land Yeo Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
38	251.0	SE	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
39	251.0	SE	River Name: Land Yeo Water Course Name: Land Yeo Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
40	267.0	NW	River Name: Land Yeo Water Course Name: Land Yeo Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
41	293.0	SW	River Name: Ten Feet Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
42	393.0	SE	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
43	426.0	NW	River Name: Middle Yeo Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
44	478.0	SE	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
45	478.0	SE	River Name: Land Yeo Water Course Name: Land Yeo Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined

## 6.9 Surface Water Features

**Are there any surface water features within 250m of the study site?**

**Yes**

The following surface water records are not represented on mapping:

Distance to Surface Water (m)	on-site	0-50	51-250
Surface water features within 250m of the study site	Yes	Yes	Yes

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## 7. Surface Water Flood Map

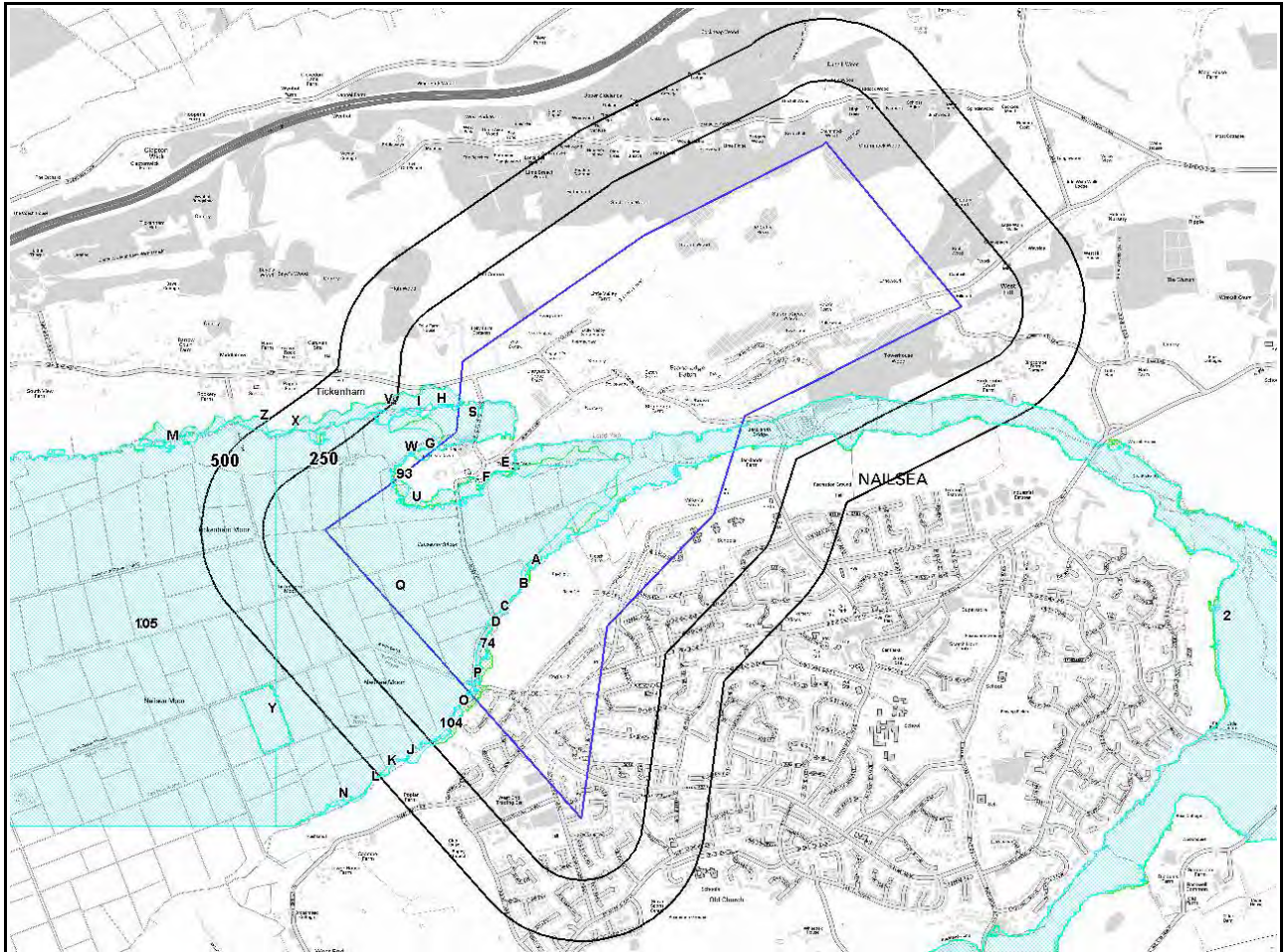
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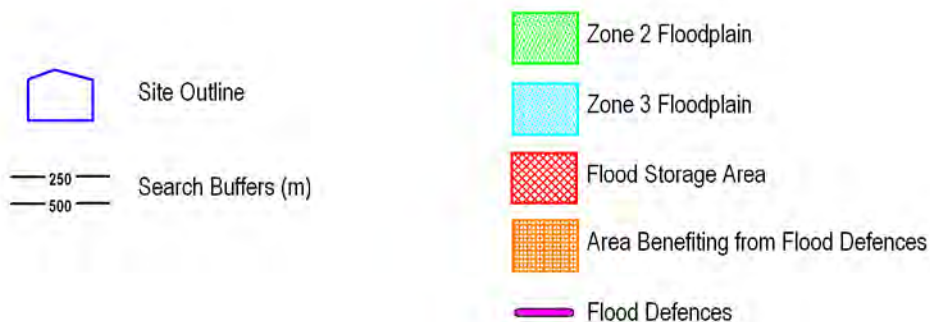
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S

SE

Surface Water Flood Legend



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## 7. Flooding

### 7.1 Zone 2 Flooding

Zone 2 floodplain estimates the annual probability of flooding as one in one thousand (0.1%) or greater from rivers and the sea but less than 1% from rivers or 0.5% from the sea. Alternatively, where information is available they may show the highest known flood level.

**Is the site within 250m of an Environment Agency indicative Zone 2 floodplain?**

**Yes**

The following floodplain records are represented as green shading on the Flood Map:

ID	Distance [m]	Direction	Update	Type
1R	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial / Tidal Models )
2	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
3A	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
4A	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
5A	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
6A	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
7B	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
8B	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
9C	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
10C	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
11C	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
12C	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
13D	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
14D	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
15D	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
16D	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
17E	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
18E	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
19E	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
20E	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
21E	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
22F	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
23F	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
24O	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
25Q	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial / Tidal Models )
26S	0.0	On Site	13-Mar-2013	Zone 2 - (Fluvial Models )
27T	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
28G	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )
29V	0.0	On Site	13-Mar-2013	Zone 2 - (Tidal Models )

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30G	30.0	NW	13-Mar-2013	Zone 2 - (Fluvial Models )
31G	42.0	NW	13-Mar-2013	Zone 2 - (Fluvial Models )
32W	49.0	NW	13-Mar-2013	Zone 2 - (Tidal Models )
33H	85.0	W	13-Mar-2013	Zone 2 - (Fluvial / Tidal Models )
34H	104.0	W	13-Mar-2013	Zone 2 - (Fluvial / Tidal Models )
35H	145.0	W	13-Mar-2013	Zone 2 - (Fluvial Models )
36I	147.0	W	13-Mar-2013	Zone 2 - (Fluvial / Tidal Models )
37H	151.0	W	13-Mar-2013	Zone 2 - (Tidal Models )
38	200.0	W	13-Mar-2013	Zone 2 - (Fluvial / Tidal Models )
39I	204.0	NW	13-Mar-2013	Zone 2 - (Fluvial / Tidal Models )

## 7.2 Zone 3 Flooding

Zone 3 estimates the annual probability of flooding as one in one hundred (1%) or greater from rivers and a one in two hundred (0.5%) or greater from the sea. Alternatively, where information is available they may show the highest known flood level.

**Is the site within 250m of an Environment Agency indicative Zone 3 floodplain?**

**Yes**

The following floodplain records are represented as blue shading on the Flood Map:

ID	Distance [m]	Direction	Update	Type
68O	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
69P	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
70P	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
71P	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
72P	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
73P	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
74	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
75D	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
76B	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
77B	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
78B	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
79C	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
80E	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
81E	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
82E	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
83E	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
84F	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
85Q	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
86R	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )

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87S	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
88T	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
89G	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
90U	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
91U	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
92U	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
93	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
94V	0.0	On Site	13-Mar-2013	Zone 3 - (Tidal Models )
95	0.0	On Site	13-Mar-2013	Zone 3 - (Fluvial Models )
96W	34.0	NW	13-Mar-2013	Zone 3 - (Fluvial Models )
97G	42.0	NW	13-Mar-2013	Zone 3 - (Fluvial Models )
98W	49.0	NW	13-Mar-2013	Zone 3 - (Tidal Models )
99O	73.0	SW	13-Mar-2013	Zone 3 - (Tidal Models )
100R	85.0	W	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
101H	145.0	W	13-Mar-2013	Zone 3 - (Fluvial Models )
102I	147.0	W	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
103H	151.0	W	13-Mar-2013	Zone 3 - (Tidal Models )
104	154.0	SW	13-Mar-2013	Zone 3 - (Fluvial Models )
105	200.0	W	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
106I	204.0	NW	13-Mar-2013	Zone 3 - (Fluvial / Tidal Models )
107J	208.0	SW	13-Mar-2013	Zone 3 - (Tidal Models )

## 7.3 Flood Defences

Are there any Flood Defences within 250m of the study site ?

No

## 7.4 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site?

No

## 7.5 Areas used for Flood Storage

Are there any areas used for Flood Storage within 250m of the study site?

No

## 7.6 Groundwater Flooding Susceptibility Areas

Are there any British Geological Survey groundwater flooding susceptibility flood areas within 50m of the boundary of the study site?

Yes

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---

**What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?**

**Very High**

Guidance:

Where very high susceptibility is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

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## 7.7 Groundwater Flooding Confidence Areas

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**What is the British Geological Survey confidence rating in this result?**

**High**

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**Notes:**

Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The **confidence rating** is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

## 8.Designated Environmentally Sensitive Sites Map

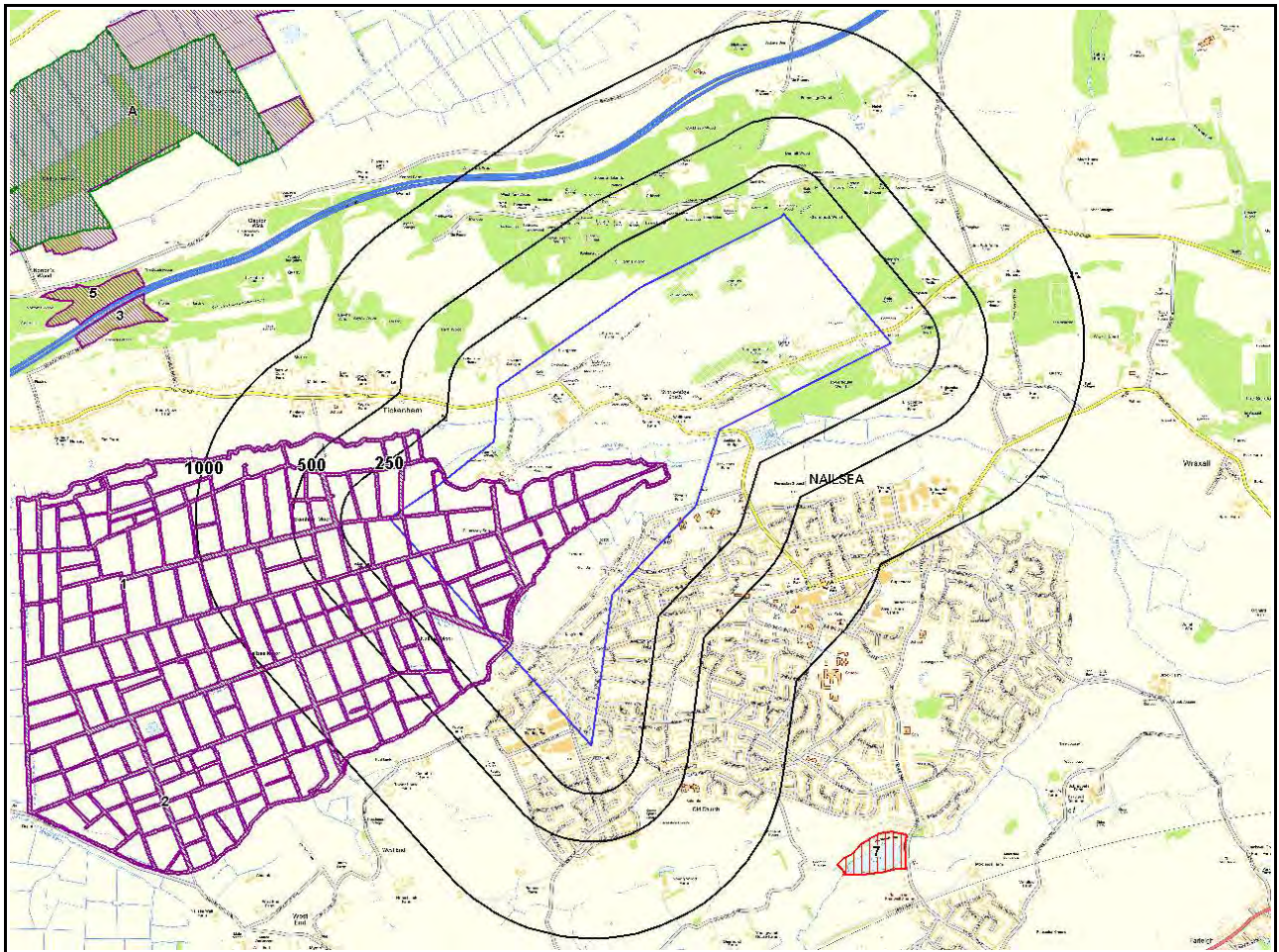
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NE

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SW

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SE

Designated Environmentally Sensitive Sites Legend



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## 8.Designated Environmentally Sensitive Sites

**Presence of Designated Environmentally Sensitive Sites within 2000m of the study site?** **Yes**

**Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:** **5**

The following Site of Special Scientific Interest (SSSI) records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance [m]	Direction	SSSI Name	Data Source
1	0.0	On Site	Tickenham, Nailsea & Kenn Moors	Natural England
2	879.0	SW	Tickenham, Nailsea & Kenn Moors	Natural England
3	1540.0	NW	Court Hill	Natural England
4A	1670.0	NW	Gordano Valley	Natural England
5	1750.0	NW	Court Hill	Natural England

**Records of National Nature Reserves (NNR) within 2000m of the study site:** **1**

The following National Nature Reserve (NNR) records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance [m]	Direction	NNR Name	Data Source
6A	1674.0	NW	Gordano Valley	Natural England

**Records of Special Areas of Conservation (SAC) within 2000m of the study site:** **0**

Database searched and no data found.

**Records of Special Protection Areas (SPA) within 2000m of the study site:** **0**

Database searched and no data found.

**Records of Ramsar sites within 2000m of the study site:** **0**

Database searched and no data found.

**Records of Local Nature Reserves (LNR) within 2000m of the study site:** **1**

The following Local Nature Reserve (LNR) records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance [m]	Direction	LNR Name	Data Source
7	1409.0	SE	Bucklands Pool/backwell Lake	Natural England

**Records of World Heritage Sites within 2000m of the study site:** **0**

Database searched and no data found.



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<b>Records of Environmentally Sensitive Areas within 2000m of the study site:</b>	<b>0</b>
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Database searched and no data found.

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<b>Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:</b>	<b>0</b>
--	----------

Database searched and no data found.

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<b>Records of National Parks (NP) within 2000m of the study site:</b>	<b>0</b>
---	----------

Database searched and no data found.

---

<b>Records of Nitrate Sensitive Areas within 2000m of the study site:</b>	<b>0</b>
---	----------

Database searched and no data found.

## 9. Additional Information

### 9.1 Mobile Phone Transmitter Locations

GroundSure's unique mobile phone transmitter database.

**Have any mobile phone transmitters been identified within 250m of the study site?**

**No**

Database searched and no data found.

### 9.2 Existing and potential OfCom Telecommunication Mast Locations

OfCom telecommunication base station and mast data, which details the height and proposed location of masts over 30 metres in height or with a power level exceeding 17dBW.

**Have any OfCom telecommunication masts been identified within 250m of the study site?**

**No**

Database searched and no data found.

### 9.3 Pylons and Electricity Transmission Lines

**Have any overhead transmission lines or pylons been identified in proximity to the study site?**

**Yes**

The following records within 500m have been found within this search:

Distance [m]	Direction
0.0	On Site
0.0	On Site
452.0	SW

Guidance: Overhead power transmission lines and/or pylons have been identified in proximity to the study site. Overhead power transmission lines are known to emit electromagnetic fields (EMF). For further information on issues associated with transmission lines you may wish to contact the EMF Unit Public Information Line on 0845 7023270 or visit [www.emfs.info](http://www.emfs.info). Guidance on electromagnetic fields resulting from transmission and distribution lines can also be found on the Health Protection Agency (HPA) website. GroundSure provide the data for information only and do not make any judgment on the risks or otherwise of EMFs. The database is searched up to 500m.

## 10. Natural Hazards Findings

### 10.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information, please obtain a GroundSure Geology and Ground Stability Report. Available from our website. The following information has been found:

#### 10.1.1 Shrink Swell

**What is the maximum Shrink-Swell\* hazard rating identified on the study site?**

**Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.

#### 10.1.2 Landslides

**What is the maximum Landslide\* hazard rating identified on the study site?**

**Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property no significant increase in insurance risk due to natural slope instability problems.

#### 10.1.3 Soluble Rocks

**What is the maximum Soluble Rocks\* hazard rating identified on the study site?**

**Moderate**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very significant soluble rocks are present, with numerous dissolution features and/or some recorded subsidence with a moderate possibility of local natural subsidence due to high surface or subsurface water flow. Do not load the land or undertake building work before obtaining specialist advice. Do not dispose of surface drainage to the ground. Maintain drainage infrastructure. For new build specialist site investigation and stability assessment may be necessary before construction. Construction work may cause subsidence. Increased construction costs are likely. For existing property probable increase in insurance risk due to soluble rocks. Some possibility of potential liability due to groundwater pollution may be present.

#### 10.1.4 Compressible Ground

**What is the maximum Compressible Ground\* hazard rating identified on the study site?**

**High**

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The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

**Hazard**

Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property probable increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly.

### 10.1.5 Collapsible Rocks

**What is the maximum Collapsible Rocks\* hazard rating identified on the study site?**

**Very Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

**Hazard**

Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

### 10.1.6 Running Sand

**What is the maximum Running Sand\* hazard rating identified on the study site?**

**Moderate**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

**Hazard**

Significant potential for running sand problems with relatively small changes in ground conditions. Avoid large amounts of water entering the ground (for example through pipe leakage or soak-aways). Do not dig (deep) holes into saturated ground near the property without technical advice. For new build consider the consequences of soil and groundwater conditions during and after construction. For existing property possible increase in insurance risk from running sand, for example, due to water leakage, high rainfall events or flooding.

\* This indicates an automatically generated 50m buffer and site.

## 10.2 Radon

**What is the maximum radon potential at the study site?**

**The property is in a Radon Affected Area, as between 10 and 30% of properties are above the Action Level**

**Is the property in an area where radon protection measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?**

**Full radon protective measures are necessary**

Guidance: The responses given on the level of radon protective measures required are based on a joint radon potential dataset from the Health Protection Agency (HPA) and the British Geological Survey (BGS). Full radon protective measures need to be installed for new dwellings or extensions to existing dwellings, where 10% or more of homes are estimated to exceed the Action Level. The joint HPA-BGS radon potential data forms the basis for the Building Research Establishment guidance on radon protective measures for new dwellings (BR211 2007).

# 11. Mining

## 11.1 Coal Mining

**Are there any coal mining areas within 75m of the study site?**

**Yes**

The following coal mining information provided by the Coal Authority is not represented on Mapping:

Distance [m]	Direction	Details
0.0	On Site	The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848.

## 11.2 Shallow Mining

**What is the hazard of subsidence relating to shallow mining on-site (including a 150m buffer)?**

**Low-Moderate**

Guidance: Where low-moderate potential is indicated, this means that the rocks underlying the area are of a type known to have been mined at shallow depth in some parts of the UK, and that such working may be possible in your area. In these cases it is recommended that you seek further advice from a Royal Institute Chartered Surveyor (RICS), the local Building Control Officer, or by ordering a Geological Report from the BGS. It is also recommended that you obtain a Coal Authority mining search, which will provide a comprehensive search of former mining activity, including coal mining at deeper levels.

## 11.3 Brine Affected Areas

**Are there any brine affected areas within 75m of the study site?**

**No**

Guidance: No Guidance Required.



## 12. Contacts

### GroundSure Helpline

Telephone: 08444 159 000  
 info@4c.groundsure.com



### British Geological Survey (England & Wales)

Kingsley Dunham Centre  
 Keyworth, Nottingham NG12 5GG  
 Tel: 0115 936 3143. Fax: 0115 936 3276. Email:  
 enquiries@bgs.ac.uk  
 Web: www.bgs.ac.uk  
 BGS Geological Hazards Reports and general geological  
 enquiries



### Environment Agency

Tel: 08708 506 506  
 Wessex  
 Rivers Hse Bridgwater - East Quay, Bridgwater, TA6 4YS  
 Web: www.environment-agency.gov.uk  
 Email: enquiries@environment-agency.gov.uk



### Health Protection Agency

Chilton, Didcot, Oxon, OX11 0RQ  
 Tel: 01235 822622 www.hpa.org.uk/radiation  
 Radon measures and general radon information and  
 guidance



### The Coal Authority

200 Lichfield Lane, Mansfield, Notts NG18 4RG  
 Tel: 0845 762 6848  
 DX 716176 Mansfield 5  
 Web: [www.groundstability.com](http://www.groundstability.com)



### Ordnance Survey

Romsey Road  
 Southampton SO16 4GU  
 Tel: 08456 050505



### Local Authority

Authority: North Somerset District Council  
 Phone: 01934 888 888  
 Web: www.n-somerset.gov.uk  
 Address: Town Hall, Walliscote Grove Road, Weston-super-  
 Mare, Somerset, BS23 1UJ

### Get Mapping PLC

Virginia Villas, High Street, Hartley Witney, Hampshire RG27  
 8NW  
 Tel: 01252 845444



### CoPSO

The Old Rectory, Church Lane, Thornby, Northants NN6 8SN  
 Tel: 0871 4237191  
 (www.copso.org.uk)



#### Acknowledgements

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Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, English Nature who retain the Copyright and Intellectual Property Rights for the data.

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This report has been prepared in accordance with the GroundSure Ltd standard Terms and Conditions of business for work of this nature.



## **Search Code**

### **IMPORTANT CONSUMER PROTECTION INFORMATION**

This search has been produced by GroundSure Ltd, Lees House, 21 Dyke Road, Brighton, BN1 3FE. Tel: 08444 159 000. Email: [info@4C.groundsure.com](mailto:info@4C.groundsure.com) which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered search firms maintain compliance with the Code.

The Search Code:

- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the United Kingdom
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practice and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

### **The Code's core principles**

Firms which subscribe to the Search Code will:

- display the Search Code logo prominently on their search reports
- act with integrity and carry out work with due skill, care and diligence
- at all times maintain adequate and appropriate insurance to protect consumers
- conduct business in an honest, fair and professional manner
- handle complaints speedily and fairly
- ensure that products and services comply with industry registration rules and standards and relevant laws
- monitor their compliance with the Code

### **COMPLAINTS**

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award compensation of up to £5,000 to you if he finds that you have suffered actual loss as a result of your search provider failing to keep to the Code.

**Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.**

### **TPOs Contact Details:**

The Property Ombudsman scheme  
Milford House  
43-55 Milford Street  
Salisbury  
Wiltshire SP1 2BP  
Tel: 01722 333306  
Fax: 01722 332296  
Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

You can get more information about the PCCB from [www.propertycodes.org.uk](http://www.propertycodes.org.uk).

**PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE**

## COMPLAINTS PROCEDURE

If you want to make a complaint, we will:

- Acknowledge it within 5 working days of receipt.
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt.
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time.
- Provide a final response, in writing, at the latest within 40 working days of receipt.
- Liaise, at your request, with anyone acting formally on your behalf.

Complaints should be sent to: Operations Director, GroundSure Ltd, Lees House, 21 Dyke Road, Brighton, BN1 3FE.  
Tel: 08444 159 000. Email: [info@4C.groundsure.com](mailto:info@4C.groundsure.com)

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs): Tel: 01722 333306, E-mail: [admin@tpos.co.uk](mailto:admin@tpos.co.uk).

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

# Standard Terms and Conditions

## 1 Definitions

In these terms and conditions unless the context otherwise requires:

**“Beneficiary”** means the person or entity for whose benefit the Client has obtained the Services.

**“Client”** means the party or parties entering into a Contract with GroundSure.

**“Commercial”** means any building or property which is not Residential.

**“Confidential Information”** means the contents of this Contract and all information received from the Client as a result of, or in connection with, this Contract other than

(i) information which the Client can prove was rightfully in its possession prior to disclosure by GroundSure and

(ii) any information which is in the public domain (other than by virtue of a breach of this Contract).

**“Support Services”** means Support Services provided by GroundSure including, without limitation, interpreting third party and in-house environmental data, providing environmental support advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.

**“Contract”** means the contract between GroundSure and the Client for the provision of the Services, and which shall incorporate these terms and conditions, the Order, and the relevant User Guide.

**“Third Party Data Provider”** means any third party providing Third Party Content to GroundSure.

**“Data Reports”** means reports comprising factual data with no accompanying interpretation.

**“Fees”** has the meaning set out in clause 5.1.

**“GroundSure”** means GroundSure Limited, a company registered in England and Wales under number 03421028.

**“GroundSure Materials”** means all materials prepared by GroundSure and provided as part of the Services, including but not limited to Third Party Content, Data Reports, Mapping, and Risk Screening Reports.

**“Intellectual Property”** means any patent, copyright, design rights, trade or service mark, moral rights, data protection rights, know-how or trade mark in each case whether registered or not and including applications for the same or any other rights of a similar nature anywhere in the world.

**“Mapping”** means a map, map data or a combination of historical maps of various ages, time periods and scales.

**“Order”** means an electronic, written or other order form submitted by the Client requesting Services from GroundSure in respect of a specified Site.

**“Ordnance Survey”** means the Secretary of State for Business, Innovation and Skills, acting through Ordnance Survey, Adanac Drive, Southampton, SO16 0AS, UK.

**“Order Website”** means the online platform through which Orders may be placed by the Client and accepted by GroundSure.

**“Report”** means a Risk Screening Report or Data Report for Commercial or Residential property.

**“Residential”** means any building or property used as or intended to be used as a single dwelling.

**“Risk Screening Report”** means a risk screening report comprising factual data with an accompanying interpretation by GroundSure.

**“Services”** means any Report, Mapping and/or Support Services which GroundSure has agreed to provide by accepting an Order pursuant to clause 2.6.

**“Site”** means the area of land in respect of which the Client has requested GroundSure to provide the Services.

**“Third Party Content”** means data, database information or other information which is provided to GroundSure by a Third Party Data Provider.

**“User Guide”** means the user guide, as amended from time to time, available upon request from GroundSure and on the website ([www.groundsure.com](http://www.groundsure.com)) and forming part of this Contract.

## 2 Scope of Services, terms and conditions, requests for insurance and quotations

2.1 GroundSure agrees to provide the Services in accordance with the Contract.

2.2 GroundSure shall exercise reasonable skill and care in the provision of the Services.

2.3 Subject to clause 7.3 the Client acknowledges that it has not relied on any statement or representation made by or on behalf of GroundSure which is not set out and expressly agreed in writing in the Contract and all such statements and representations are hereby excluded to the fullest extent permitted by law.

2.4 The Client acknowledges that terms and conditions appearing on a Client's order form, printed stationery or other communication, or any terms or conditions implied by custom, practice or course of dealing shall be of no effect, and that this Contract shall prevail over all others in relation to the Order.

2.5 If the Client or Beneficiary requests insurance in conjunction with or as a result of the Services, GroundSure shall use reasonable endeavours to recommend such insurance, but makes no warranty that such insurance shall be available from insurers or that it will be offered on reasonable terms. Any insurance purchased by the Client or Beneficiary shall be subject solely to the terms of the policy issued by insurers and GroundSure will have no liability therefor. In addition you acknowledge and agree that GroundSure does not act as an agent or broker for any insurance providers. The Client should take (and ensure that the Beneficiary takes) independent advice to ensure that the insurance policy requested or offered is suitable for its requirements.

2.6 GroundSure's quotations or proposals are valid for a period of 30 days only unless an alternative period of time is explicitly stipulated by Groundsure. GroundSure reserves the right to withdraw any quotation or proposal at any time before an Order is accepted by GroundSure. GroundSure's acceptance of an Order shall be binding only when made in writing and signed by GroundSure's authorised representative or when accepted through the Order Website.

## 3 The Client's obligations

3.1 The Client shall comply with the terms of this Contract and

(i) procure that the Beneficiary or any third party relying on the Services complies with and acts as if it is bound by the Contract and

(ii) be liable to GroundSure for the acts and omissions of the Beneficiary or any third party relying on the Services as if such acts and omissions were those of the Client.

3.2 The Client shall be solely responsible for ensuring that the Services are appropriate and suitable for its and/or the Beneficiary's needs.

3.3 The Client shall supply to GroundSure as soon as practicable and without charge all requisite information (and the Client warrants that such information is accurate, complete and appropriate), including without limitation any environmental information relating to the Site and shall give such assistance as GroundSure shall reasonably require in the provision of the Services including, without limitation, access to the Site, facilities and equipment.

3.4 Where the Client's approval or decision is required to enable GroundSure to carry out work in order to provide the Services, such approval or decision shall be given or procured in reasonable time and so as not to delay or disrupt the performance of the Services.

3.5 Save as expressly permitted by this Contract the Client shall not, and shall procure that the Beneficiary shall not, re-sell, alter, add to, or amend the GroundSure Materials, or use the GroundSure Materials in a manner for which they were not intended. The Client may make the GroundSure Materials available to a third party who is considering acquiring some or all of, or providing funding in relation to, the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.

3.6 The Client is responsible for maintaining the confidentiality of its user name and password if using the Order Website and the Client acknowledges that GroundSure accepts no liability of any kind for any loss or damage suffered by the Client as a consequence of using the Order Website.

## 4 Reliance

4.1 The Client acknowledges that the Services provided by GroundSure consist of the presentation and analysis of Third Party Content and other content and that information obtained from a Third Party Data Provider cannot be guaranteed or warranted by GroundSure to be reliable.

4.2 In respect of Data Reports, Mapping and Risk Screening Reports, the following classes of person and no other are entitled to rely on their contents;

- (i) the Beneficiary,
- (ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate),
- (iv) the first purchaser or first tenant of the Site, and
- (v) the professional advisers and lenders of the first purchaser or tenant of the Site.

4.3 In respect of Support Services, only the Client, Beneficiary and parties expressly named in a Report and no other parties are entitled to rely on its contents.

4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise expressly agreed in writing, no other person or entity of any kind is entitled to rely on any Services or Report issued or provided by GroundSure. Any party considering such Reports and Services does so at their own risk.

## 5 Fees and Disbursements

5.1 GroundSure shall charge and the Client shall pay fees at the rate and frequency specified in the written proposal, Order Website or Order acknowledgement form, plus (in the case of Support Services) all proper disbursements incurred by GroundSure. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services (together "Fees").

5.2 The Client shall pay all outstanding Fees to GroundSure in full without deduction, counterclaim or set off within 30 days of the date of GroundSure's invoice or such other period as may be agreed in writing between GroundSure and the Client ("Payment Date"). Interest on late payments will accrue on a daily basis from the Payment Date until the date of payment (whether before or after judgment) at the rate of 8% per annum.

5.3 The Client shall be deemed to have agreed the amount of any invoice unless an objection is made in writing within 28 days of the date of the invoice. As soon as reasonably practicable after being notified of an objection, without prejudice to clause 5.2 a member of GroundSure's management team will contact the Client and the parties shall then use all reasonable endeavours to resolve the dispute within 15 days.

## 6 Intellectual Property and Confidentiality

6.1 Subject to

- (i) full payment of all relevant Fees and
- (ii) compliance with this Contract, the Client is granted (and is permitted to sub-licence to the Beneficiary) a royalty-free, worldwide, non-assignable and (save to the extent set out in this Contract) non-transferable licence to make use of the GroundSure Materials.

6.2 All Intellectual Property in the GroundSure Materials are and shall remain owned by GroundSure or GroundSure's licensors (including without limitation the Third Party Data Providers) the Client acknowledges, and shall procure acknowledgement by the Beneficiary of, such ownership. Nothing in this Contract purports to transfer or assign any rights to the Client or the Beneficiary in respect of such Intellectual Property.

6.3 Third Party Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.

6.4 The Client shall, and shall procure that any recipients of the GroundSure Materials shall:

- (i) not remove, suppress or modify any trade mark, copyright or other proprietary marking belonging to GroundSure or any third party from the Services;
- (ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;
- (iii) not create any product or report which is derived directly or indirectly from the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);
- (iv) not combine the Services with or incorporate such Services into any other information data or service;

(v) not reformat or otherwise change (whether by modification, addition or enhancement), the Services (save that those acting for the Beneficiary in a professional capacity shall not be in breach of this clause 6.4(v) where such reformatting is in the normal course of providing advice based upon the Services);

(vi) where a Report and/or Mapping contains material belonging to Ordnance Survey, acknowledge and agree that such content is protected by Crown Copyright and shall not use such content for any purpose outside of receiving the Services; and

(vii) not copy in whole or in part by any means any map prints or run-on copies containing content belonging to Ordnance Survey (other than that contained within Ordnance Survey's OS Street Map) without first being in possession of a valid Paper Map Copying Licence from Ordnance Survey, 6.5 Notwithstanding clause 6.4, the Client may make reasonable use of the GroundSure Materials in order to advise the Beneficiary in a professional capacity. However, GroundSure shall have no liability in respect of any advice, opinion or report given or provided to Beneficiaries by the Client.

6.6 The Client shall procure that any person to whom the Services are made available shall notify GroundSure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

## 7. Liability: Particular Attention Should Be Paid To This Clause

7.1 This Clause 7 sets out the entire liability of GroundSure, including any liability for the acts or omissions of its employees, agents, consultants, subcontractors and Third Party Content, in respect of:

- (i) any breach of contract, including any deliberate breach of the Contract by GroundSure or its employees, agents or subcontractors;
- (ii) any use made of the Reports, Services, Materials or any part of them; and
- (iii) any representation, statement or tortious act or omission (including negligence) arising under or in connection with the Contract.

7.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

7.3 Nothing in the Contract limits or excludes the liability of the Supplier for death or personal injury resulting from negligence, or for any damage or liability incurred by the Client or Beneficiary as a result of fraud or fraudulent misrepresentation.

7.4 GroundSure shall not be liable for

- (i) loss of profits;
- (ii) loss of business;
- (iii) depletion of goodwill and/or similar losses;
- (iv) loss of anticipated savings;
- (v) loss of goods;
- (vi) loss of contract;
- (vii) loss of use;
- (viii) loss or corruption of data or information;
- (ix) business interruption;
- (x) any kind of special, indirect, consequential or pure economic loss, costs, damages, charges or expenses;
- (xi) loss or damage that arise as a result of the use of all or part of the GroundSure Materials in breach of the Contract;
- (xii) loss or damage arising as a result of any error, omission or inaccuracy in any part of the GroundSure Materials where such error, omission or inaccuracy is caused by any Third Party Content or any reasonable interpretation of Third Party Content;
- (xiii) loss or damage to a computer, software, modem, telephone or other property; and
- (xiv) loss or damage caused by a delay or loss of use of GroundSure's internet ordering service.

7.5 GroundSure's total liability in relation to or under the Contract shall be limited to £10 million for any claim or claims.

7.6 GroundSure shall procure that the Beneficiary shall be bound by limitations and exclusions of liability in favour of GroundSure which accord with those detailed in clauses 7.4 and 7.5 (subject to clause 7.3) in respect of all claims which the Beneficiary may bring against GroundSure



in relation to the Services or other matters arising pursuant to the Contract.

### **8 GroundSure's right to suspend or terminate**

8.1 If GroundSure reasonably believes that the Client or Beneficiary has not provided the information or assistance required to enable the proper provision of the Services, GroundSure shall be entitled to suspend all further performance of the Services until such time as any such deficiency has been made good.

8.2 GroundSure shall be entitled to terminate the Contract immediately on written notice in the event that:

(i) the Client fails to pay any sum due to GroundSure within 30 days of the Payment Date; or

(ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an administration order made against it or if a receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or

(iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or

(iv) the Client or the Beneficiary breaches any term of the Contract (including, but not limited to, the obligations in clause 4) which is incapable of remedy or if remediable, is not remedied within five days of notice of the breach.

### **9. Client's Right to Terminate and Suspend**

9.1 Subject to clause 10.1, the Client may at any time upon written notice terminate or suspend the provision of all or any of the Services.

9.2 In any event, where the Client is a consumer (and not a business) he/she hereby expressly acknowledges and agrees that:

(i) the supply of Services under this Contract (and therefore the performance of this Contract) commences immediately upon GroundSure's acceptance of the Order; and

(ii) the Reports and/or Mapping provided under this Contract are  
(a) supplied to the Client's specification(s) and in any event  
(b) by their nature cannot be returned.

### **10 Consequences of Withdrawal, Termination or Suspension**

10.1 Upon termination of the Contract:

(i) GroundSure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client and/or Beneficiary any property of the Client and/or Beneficiary in GroundSure's possession or control; and

(ii) the Client shall pay to GroundSure all and any Fees payable in respect of the performance of the Services up to the date of termination or suspension. In respect of any Support Services provided, the Client shall also pay GroundSure any additional costs incurred in relation to the termination or suspension of the Contract.

11 Anti-Bribery

11.1 The Client warrants that it shall:

(i) comply with all applicable laws, statutes and regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;

(ii) comply with such of GroundSure's anti-bribery and anti-corruption policies as are notified to the Client from time to time; and

(iii) promptly report to GroundSure any request or demand for any undue financial or other advantage of any kind received by or on behalf of the Client in connection with the performance of this Contract.

11.2 Breach of this Clause 11 shall be deemed a material breach of this Contract.

### **12 General**

12.1 The Mapping contained in the Services is protected by Crown copyright and must not be used for any purpose other than as part of the Services or as specifically provided in the Contract.

12.2 The Client shall be permitted to make one copy only of each Report or Mapping Order. Thereafter the Client shall be entitled to make unlimited copies of the Report or Mapping Order only in accordance with an Ordnance Survey paper map copy license available through GroundSure.

12.3 GroundSure reserves the right to amend or vary this Contract. No amendment or variation to this Contract shall be valid unless signed by an authorised representative of GroundSure.

12.4 No failure on the part of GroundSure to exercise, and no delay in exercising, any right, power or provision under this Contract shall operate as a waiver thereof.

12.5 Save as expressly provided in this Contract, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.

12.6 The Secretary of State for Business, Innovation and Skills ("BIS") or BIS' successor body, as the case may be, acting through Ordnance Survey may enforce a breach of clause 6.4(vi) and clause 6.4(vii) of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.

12.7 GroundSure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:

(i) the Client or Beneficiary's failure to provide facilities, access or information;

(ii) fire, storm, flood, tempest or epidemic;

(iii) Acts of God or the public enemy;

(iv) riot, civil commotion or war;

(v) strikes, labour disputes or industrial action;

(vi) acts or regulations of any governmental or other agency;

(vii) suspension or delay of services at public registries by Third Party Data Providers;

(viii) changes in law; or

(ix) any other reason beyond GroundSure's reasonable control.

In the event that GroundSure is prevented from performing the Services (or any part thereof) in accordance with this clause 12.6 for a period of not less than 30 days then GroundSure shall be entitled to terminate this Contract immediately on written notice to the Client.

12.8 Any notice provided shall be in writing and shall be deemed to be properly given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

12.9 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email (save to the extent such day is not a working day where it shall be deemed to have been delivered on the next working day) and on the second working day after the day of posting if sent by first class post.

12.10 The Contract constitutes the entire agreement between the parties and shall supersede all previous arrangements between the parties relating to the subject matter hereof.

12.11 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

12.12 This Contract shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with this Contract shall be subject to the exclusive jurisdiction of the English courts.

12.13 GroundSure is an executive member of the Council of Property Search Organisation (CoPSO) and has signed up to the Search Code administered by the Property Codes Compliance Board (PCCB). All Risk Screening Reports shall be supplied in accordance with the provisions of the Search Code.

12.14 If the Client or Beneficiary has a complaint about the Services, written notice should be given to the Compliance Officer at GroundSure who will respond in a timely manner.

12.15 The Client agrees that it shall, and shall procure that each Beneficiary shall, treat in confidence all Confidential Information and shall not, and shall procure that each Beneficiary shall not (i) disclose any Confidential Information to any third party other than in accordance with the terms of this Contract; and (ii) use Confidential Information for a purpose other than the exercise of its rights and obligations under this Contract. Subject to clause 6.6, nothing shall prevent the Client or any Beneficiary from disclosing Confidential Information to the extent required by law.

#### Site Details:

Hinkley Project

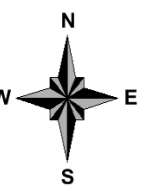
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**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** National Grid

**Map date:** 2012

**Scale:** 1:10,000

**Printed at:** 1:10,000

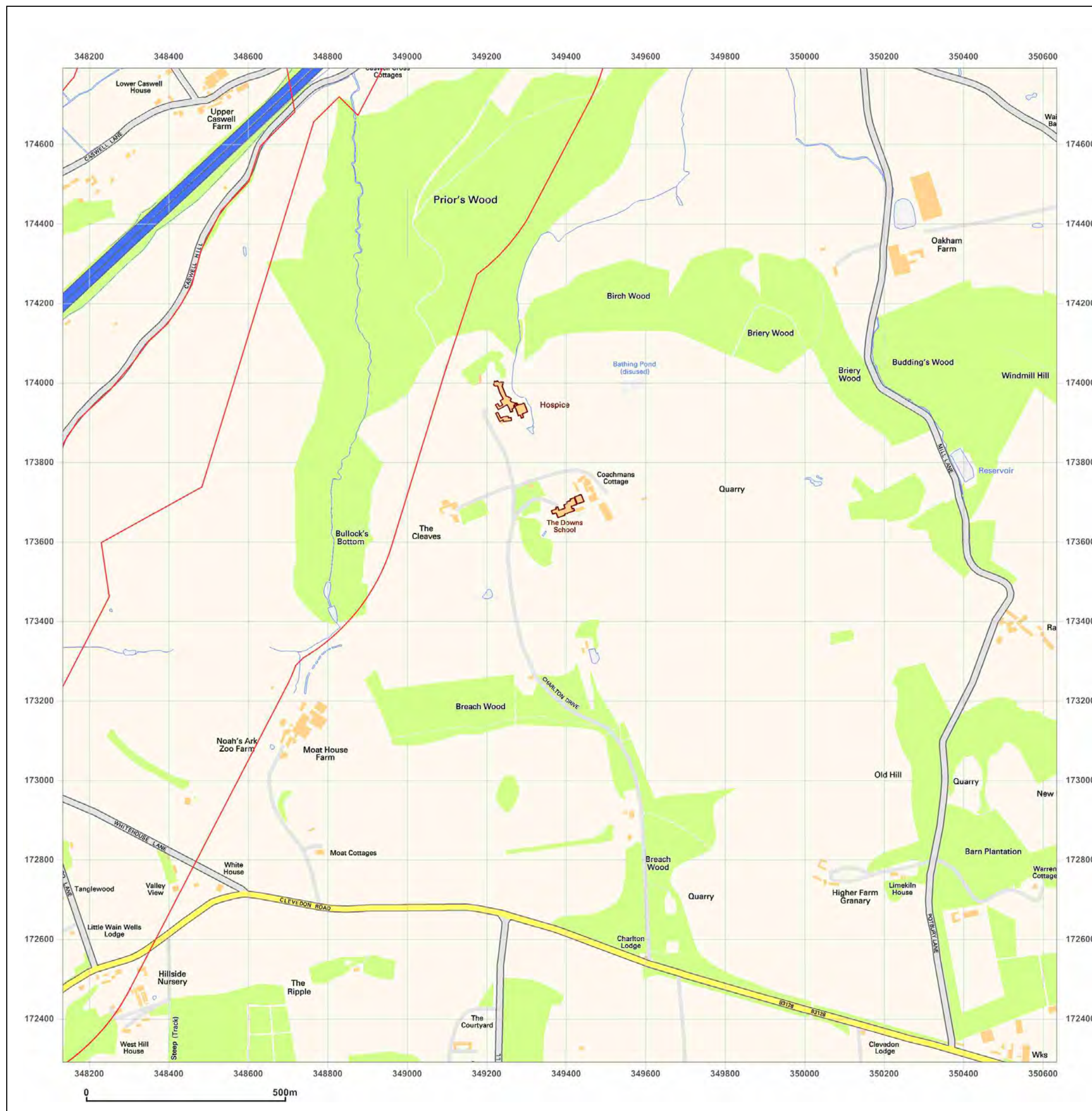


Produced by  
 GroundSure Environmental Insight  
 T: 08444 159000  
 E: [info@groundsure.com](mailto:info@groundsure.com)  
 W: [REDACTED]

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Production date: 23 May 2013

To view map legend click here [REDACTED]





#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** 1:10,000 Raster

**Map date:** 2002

**Scale:** 1:10,000

**Printed at:** 1:10,000

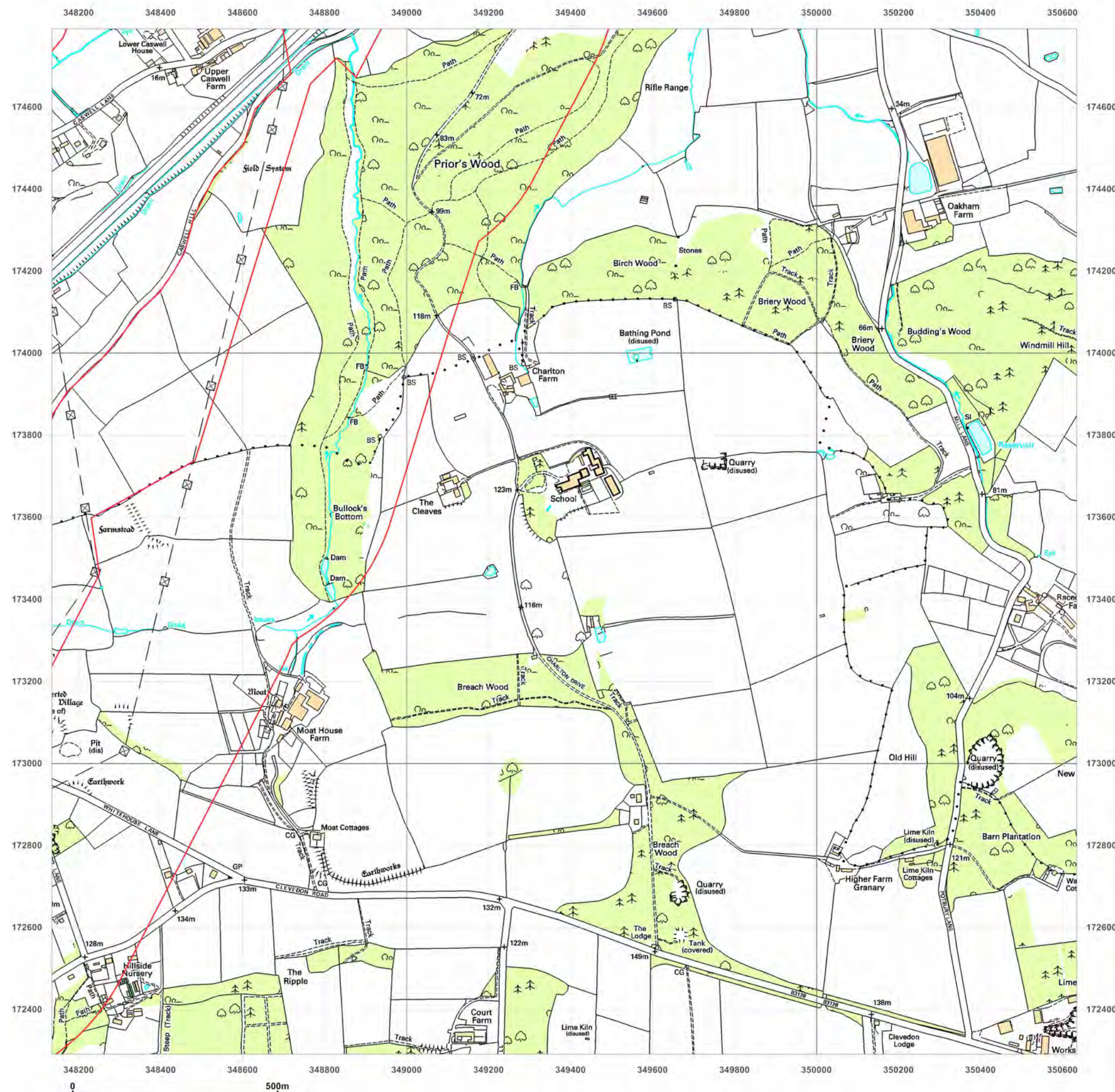


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Production date: 23 May 2013

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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** National Grid

**Map date:** 1978-1979

**Scale:** 1:10,000

**Printed at:** 1:10,000



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

Surveyed 1977  
 Revised 1979  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

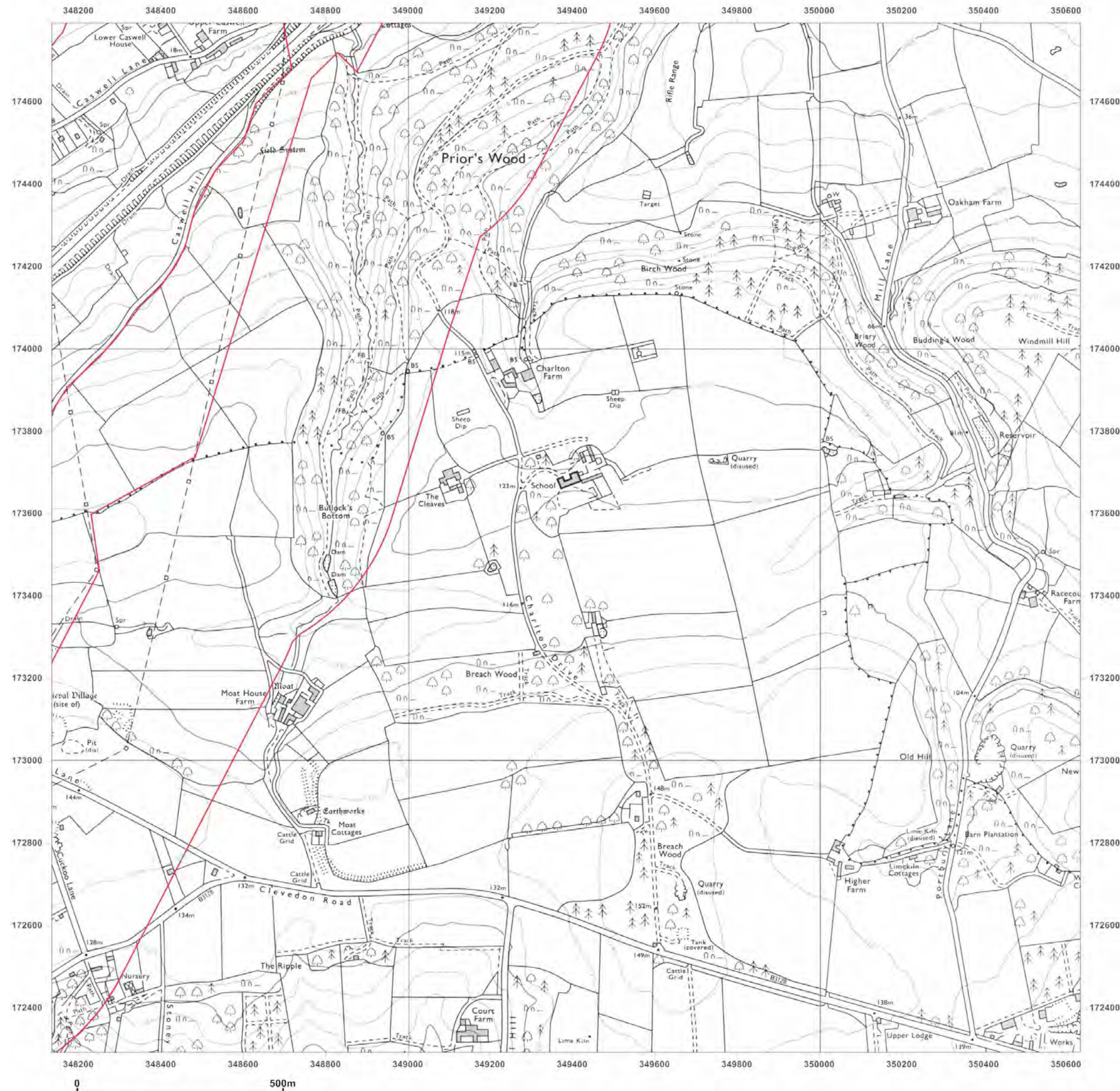


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** Provisional

**Map date:** 1960

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

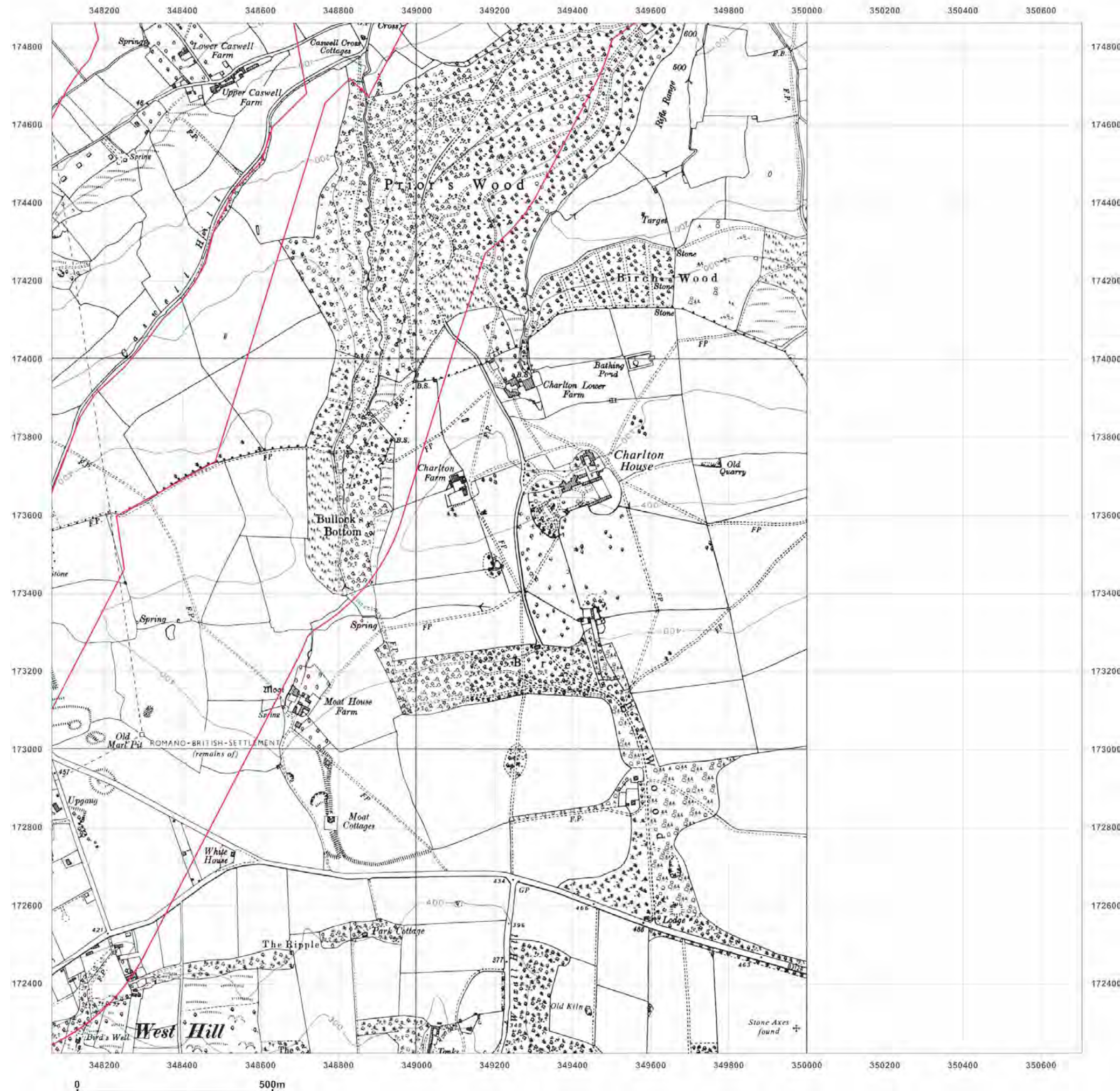


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** County Series

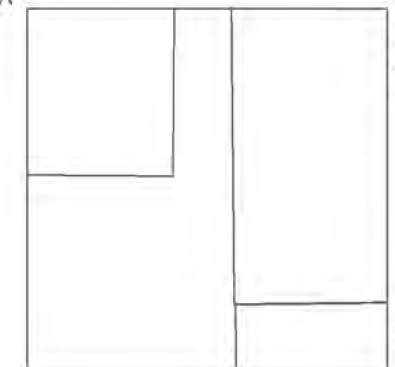
**Map date:** 1938

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



Surveyed 1879  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1881  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** County Series

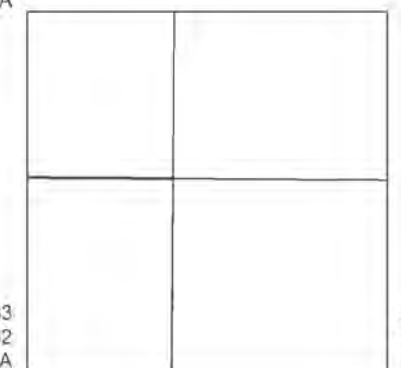
**Map date:** 1930-1932

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1930  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



Surveyed 1883  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

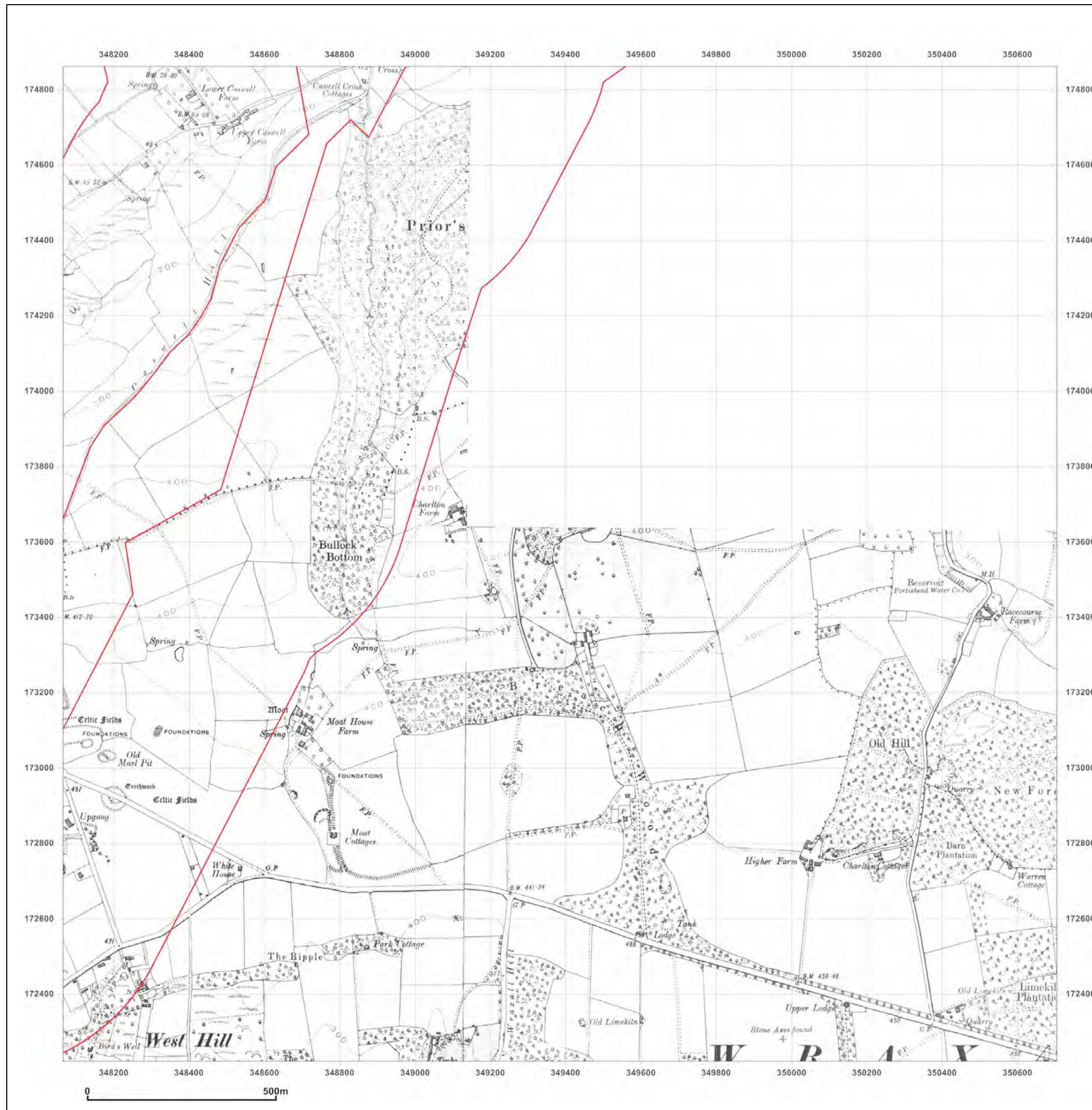


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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** County Series

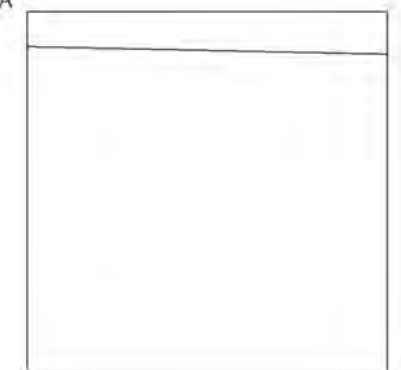
**Map date:** 1922

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1886  
 Revised 1922  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

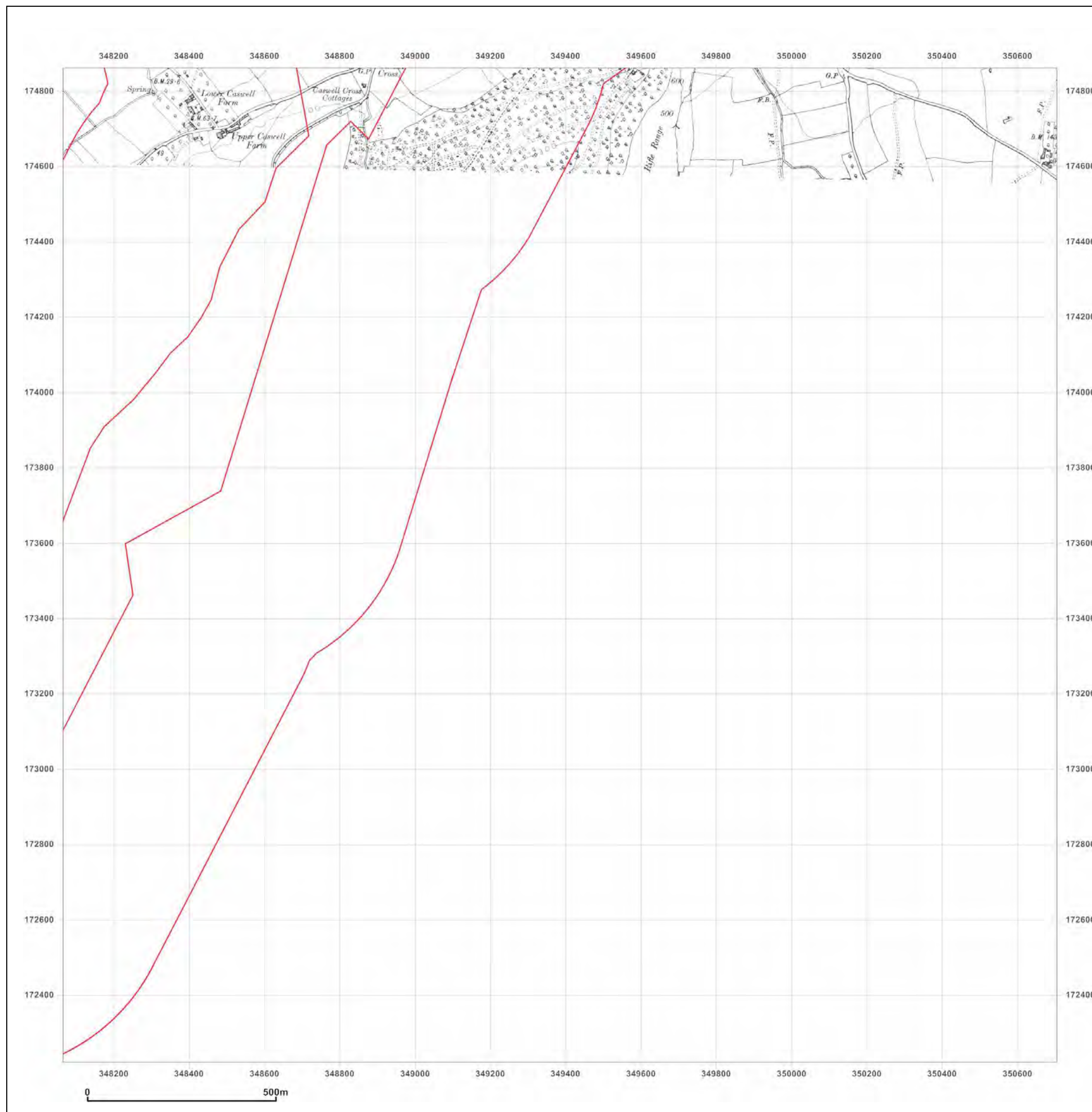


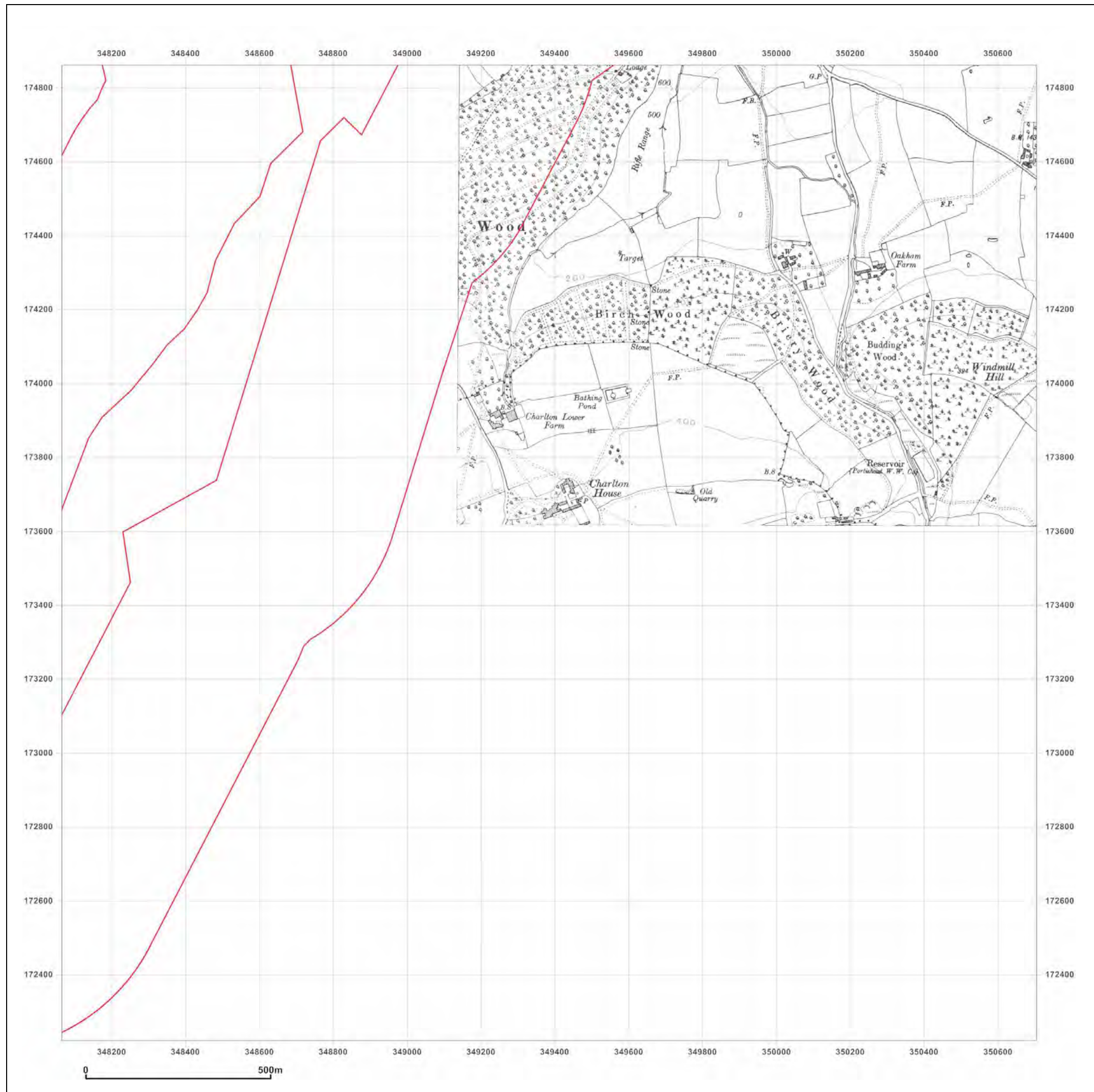
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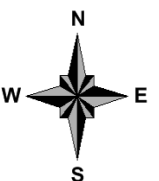




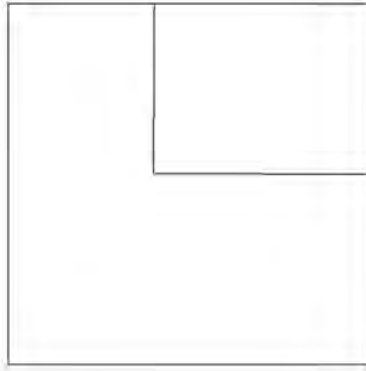
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Hinkley Project


**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541


**Map Name:** County Series  
**Map date:** 1920  
**Scale:** 1:10,560  
**Printed at:** 1:10,560



Surveyed 1882  
Revised 1920  
Edition 1920  
Copyright N/A  
Levelled N/A






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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** County Series

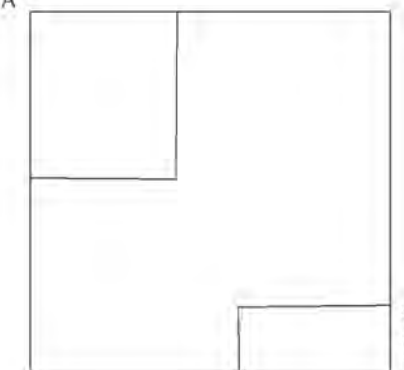
**Map date:** 1912-1913

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1912  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



Surveyed 1881  
 Revised 1913  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

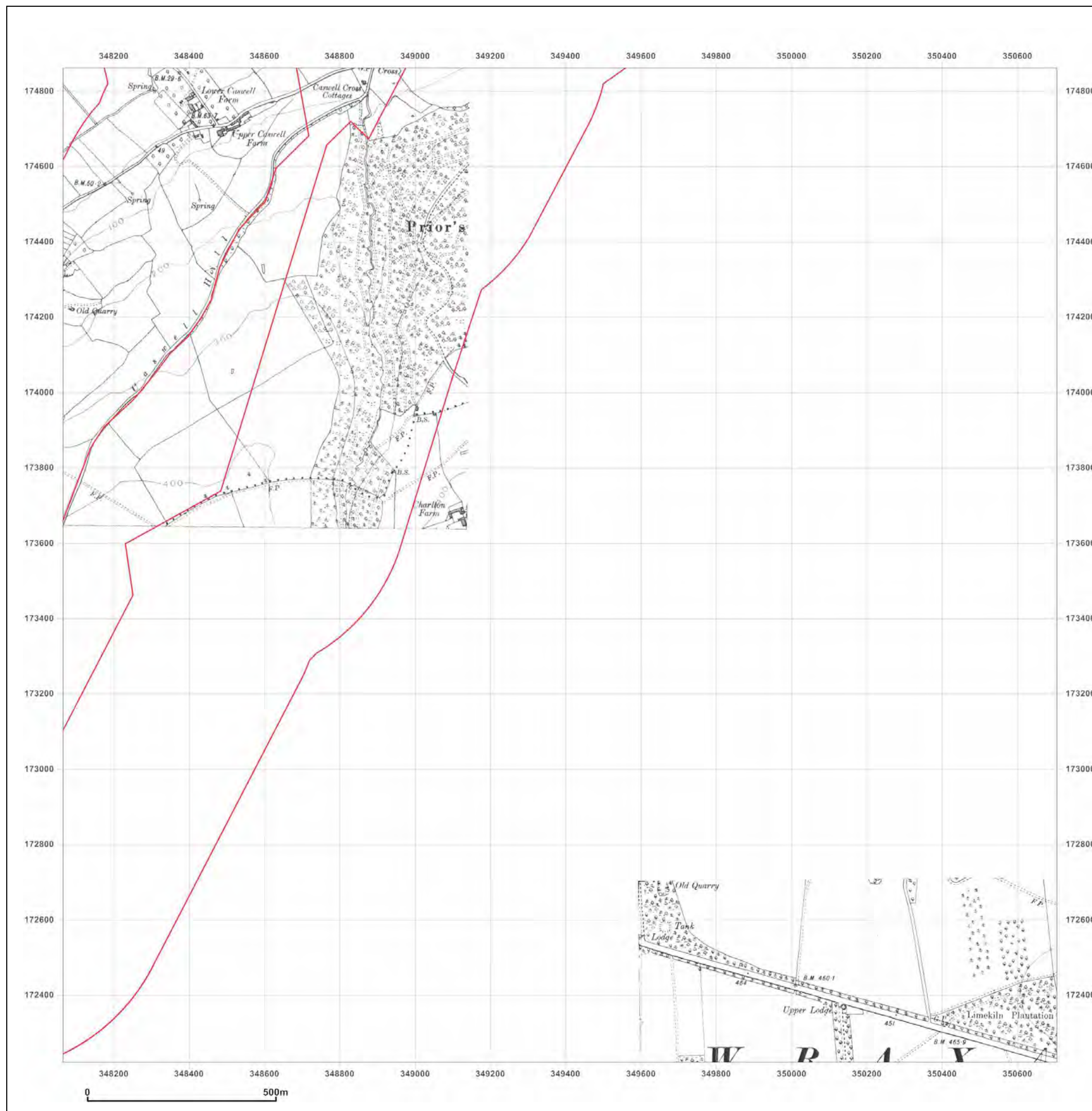


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** County Series

**Map date:** 1902-1904

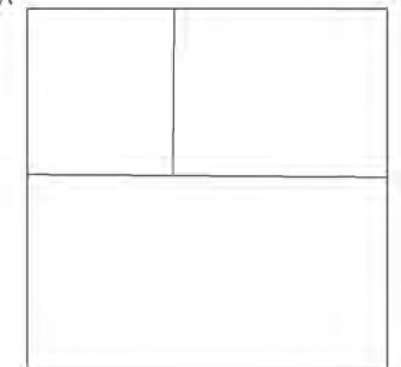
**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1902  
 Edition 1904  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1902  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

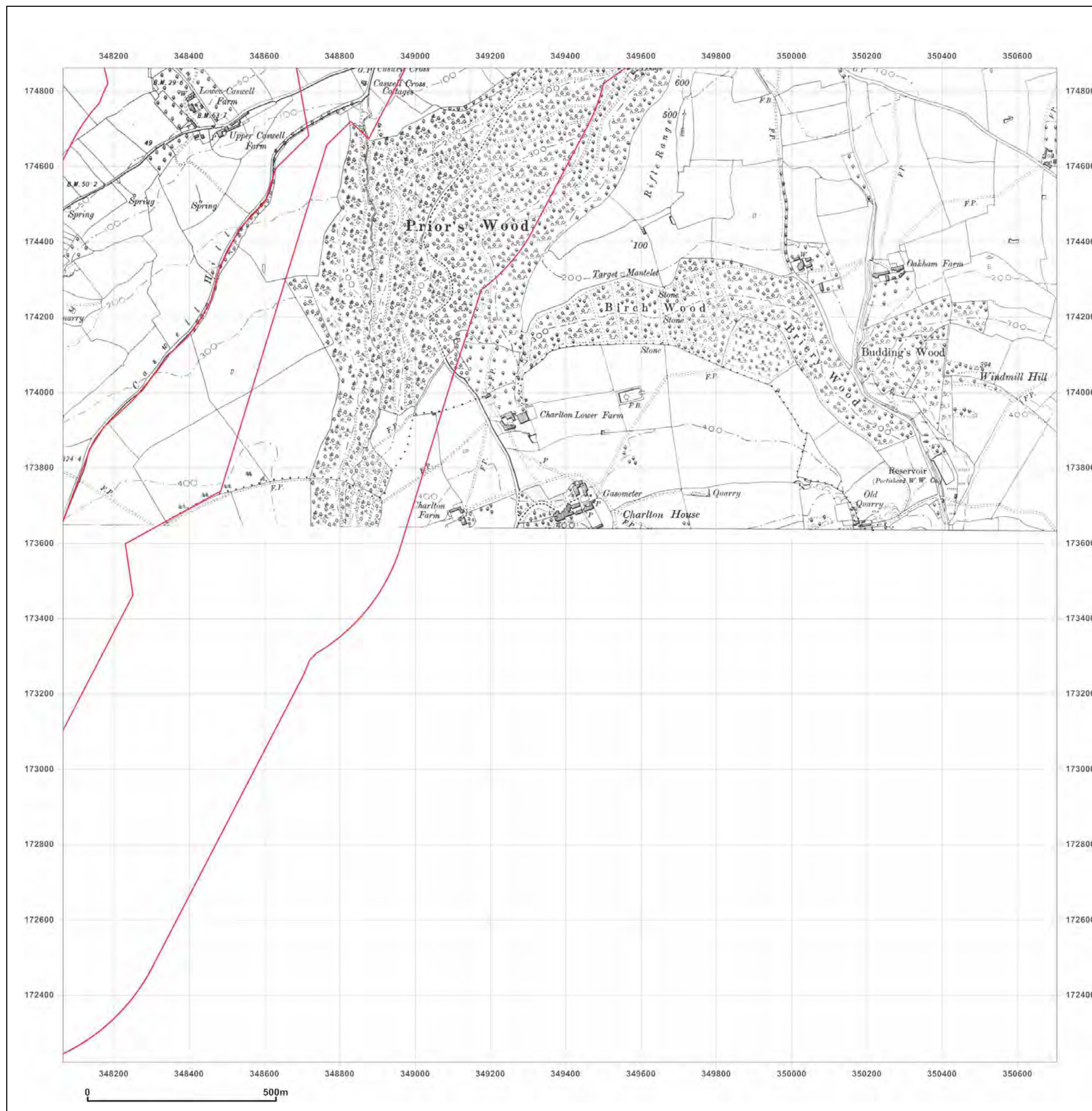


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** County Series

**Map date:** 1901-1902

**Scale:** 1:10,560

**Printed at:** 1:10,560



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

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

Surveyed 1883  
 Revised 1902  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1902  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

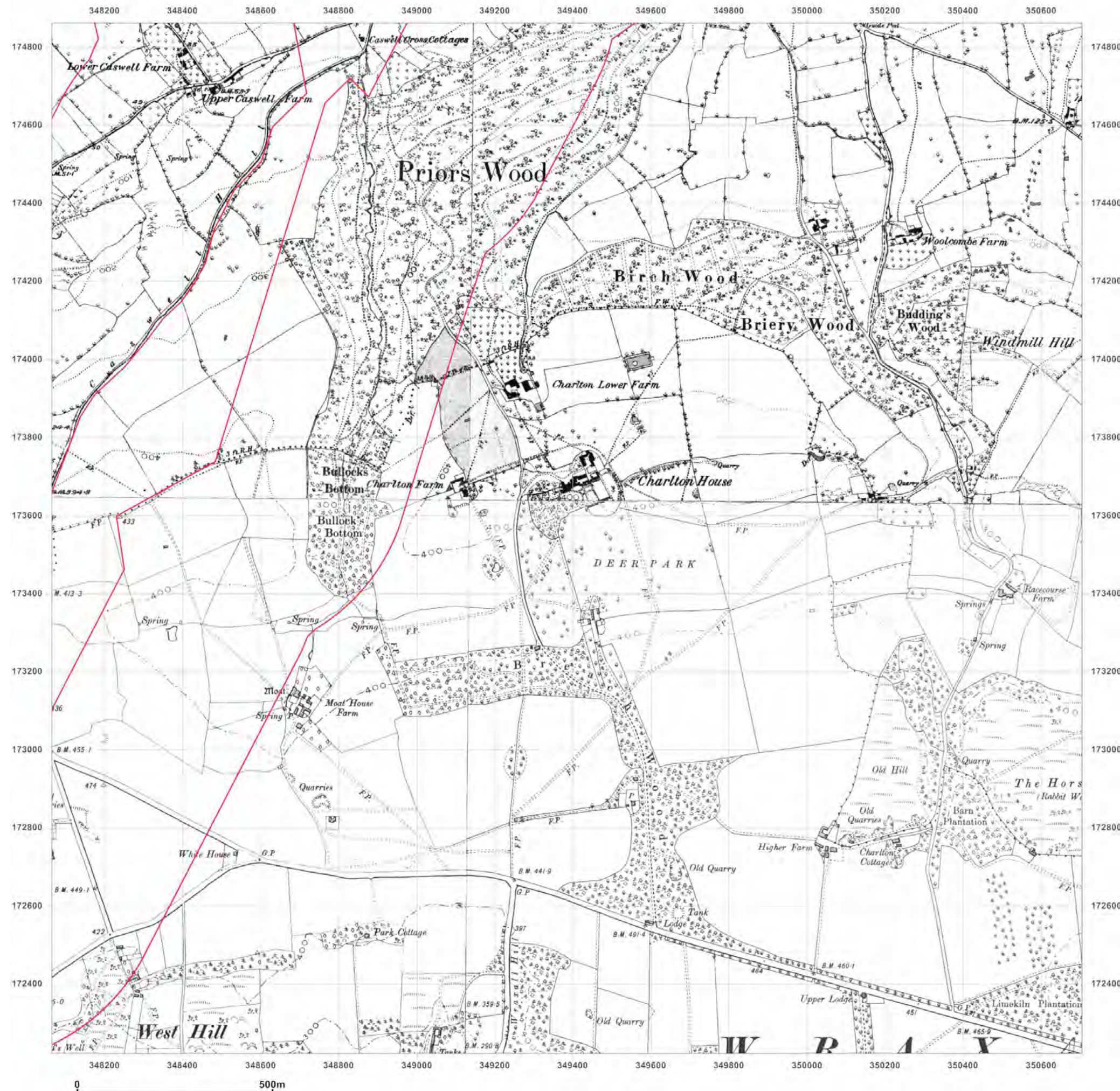


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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D6  
**Grid Ref:** 349384, 173541

**Map Name:** County Series

**Map date:** 1883-1884

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised 1883  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

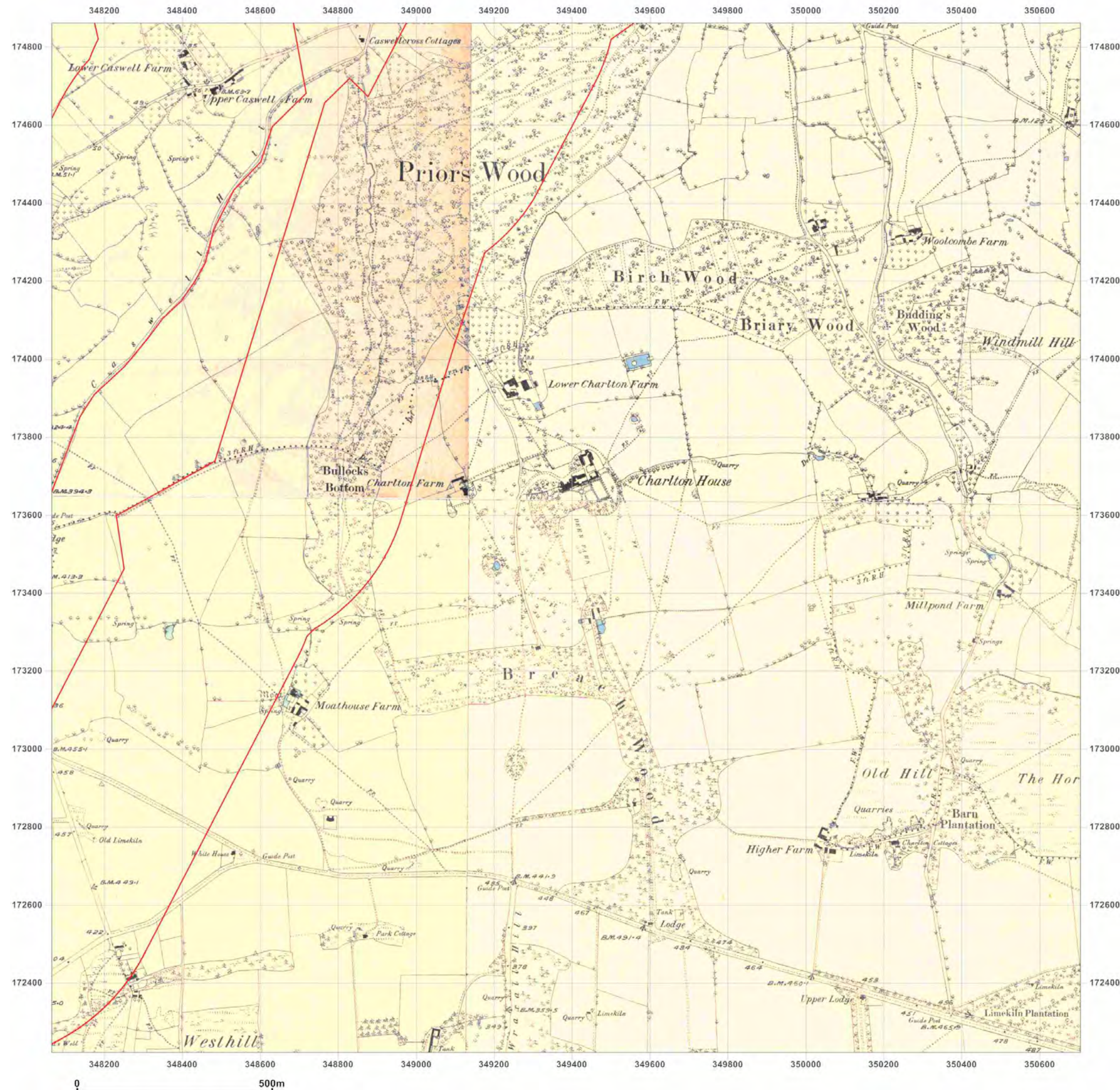


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** National Grid

**Map date:** 2012

**Scale:** 1:10,000

**Printed at:** 1:10,000

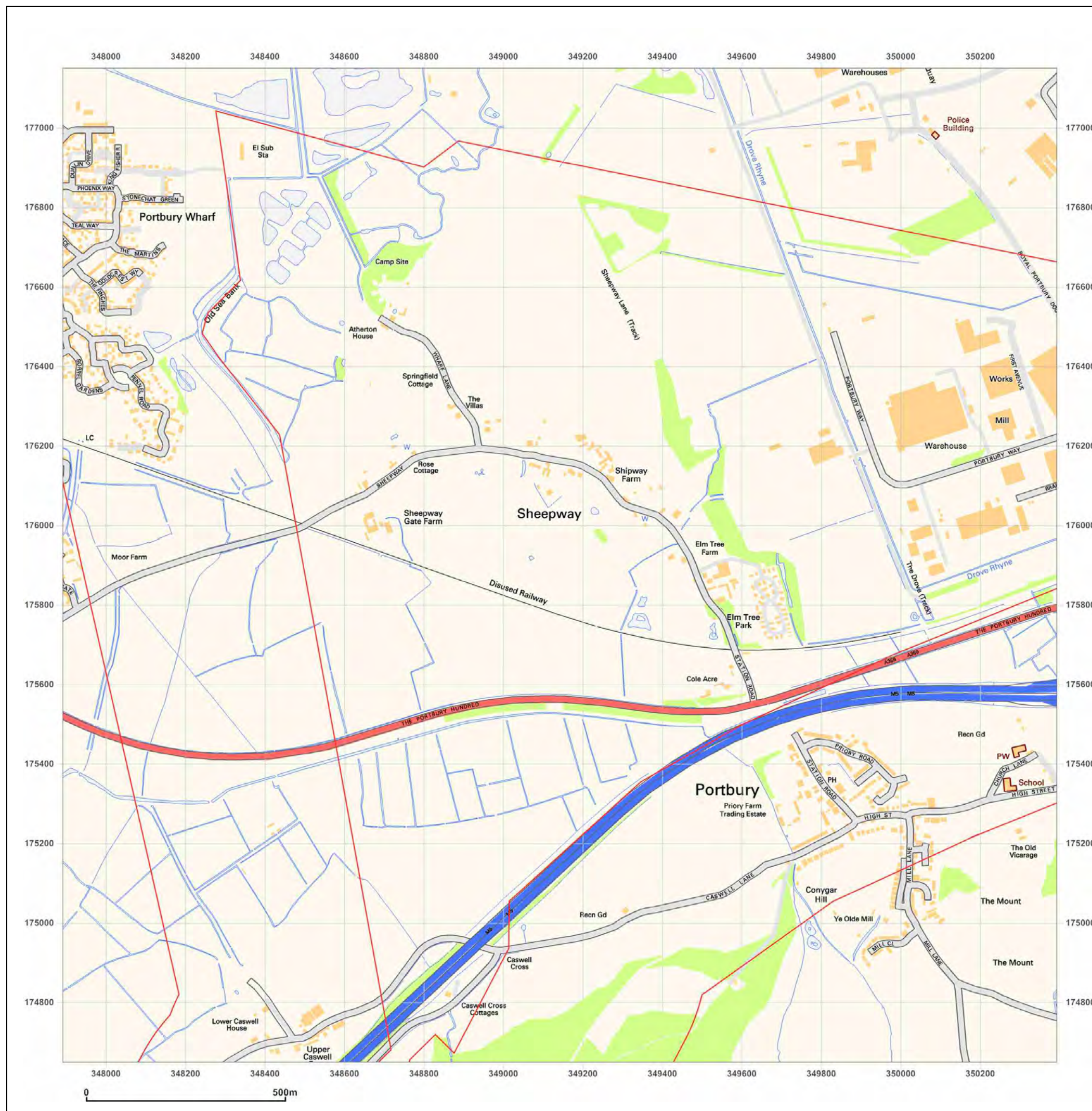


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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** 1:10,000 Raster

**Map date:** 2002

**Scale:** 1:10,000

**Printed at:** 1:10,000

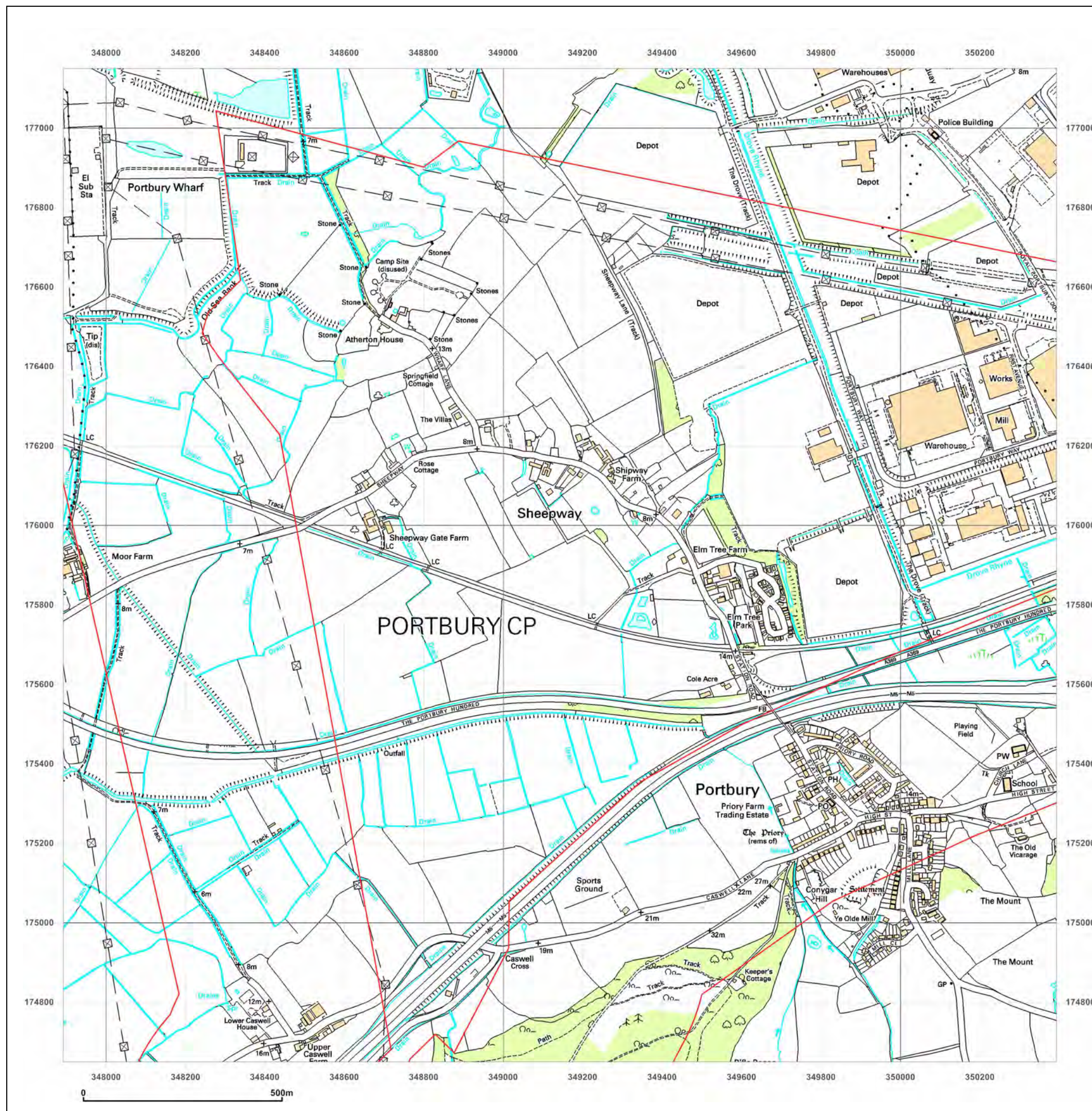


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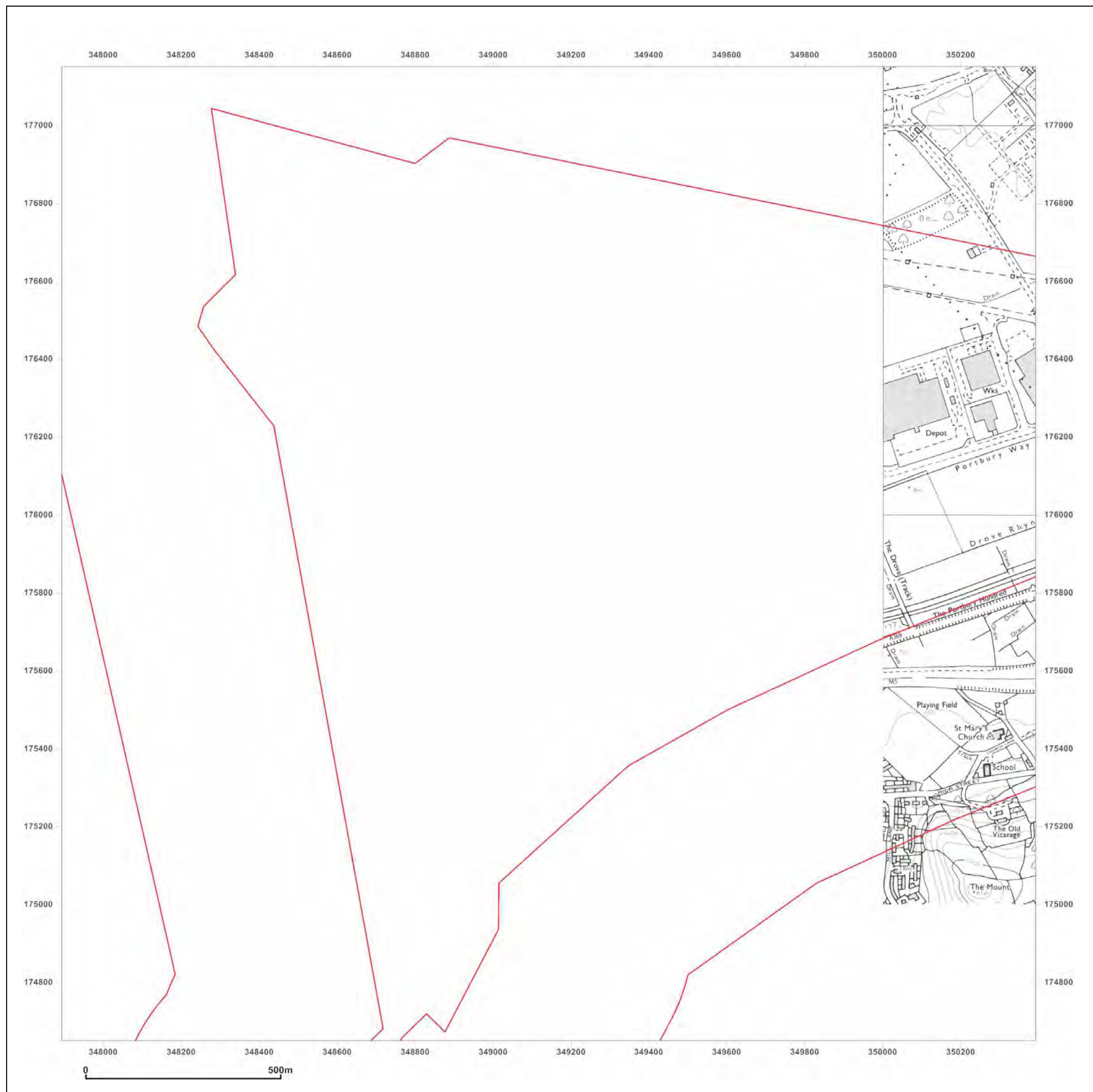
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Production date: 23 May 2013

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**Site Details:**

Hinkley Project

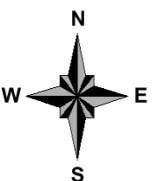
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** National Grid

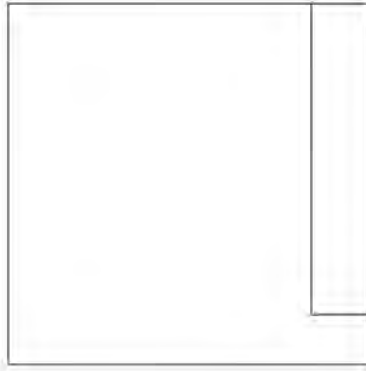
**Map date:** 1991

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1984  
Revised 1991  
Edition N/A  
Copyright N/A  
Levelled N/A





#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** National Grid

**Map date:** 1978-1979

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1977  
 Revised 1979  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1977  
 Revised 1979  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

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

Surveyed 1977  
 Revised 1979  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

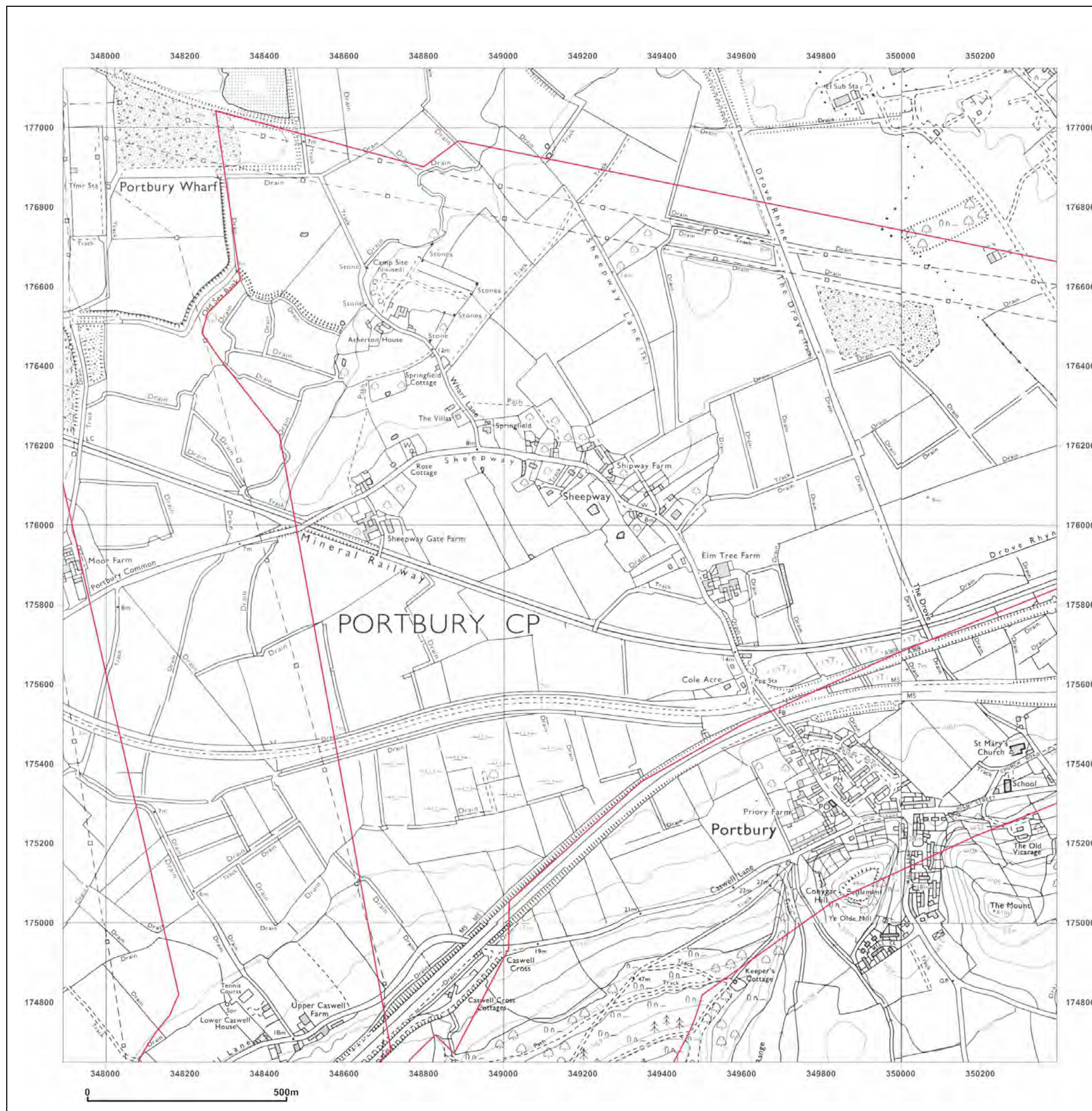


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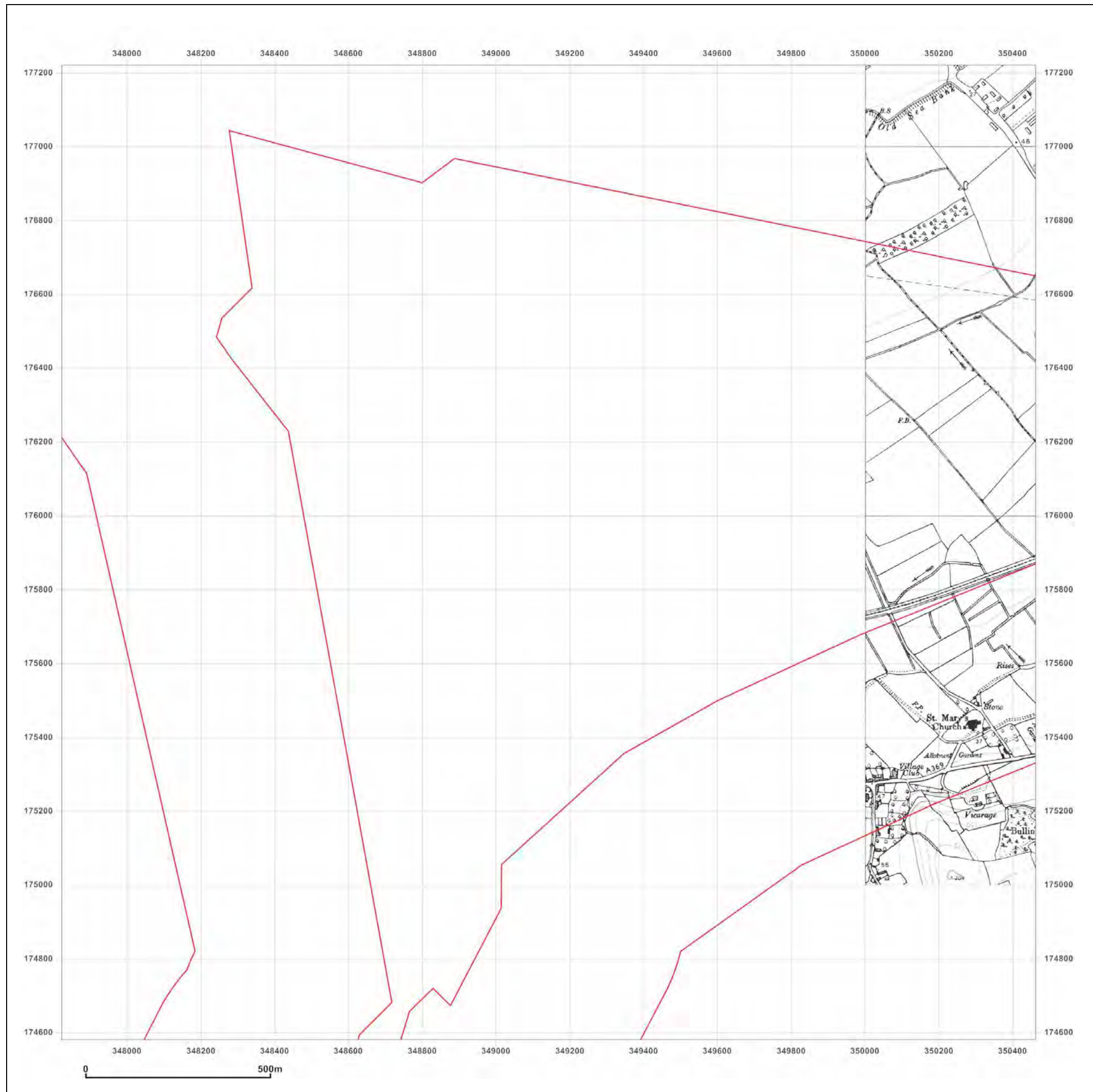
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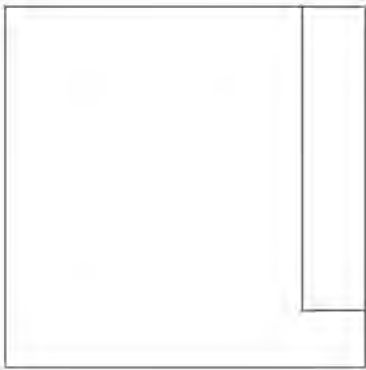
**Site Details:**  
Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** Provisional  
**Map date:** 1970  
**Scale:** 1:10,560  
**Printed at:** 1:10,560



Surveyed 1949  
Revised 1949  
Edition N/A  
Copyright N/A  
Levelled N/A



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** National Grid

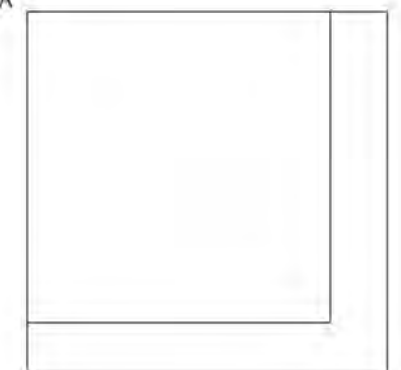
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**Scale:** 1:10,000

**Printed at:** 1:10,000



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

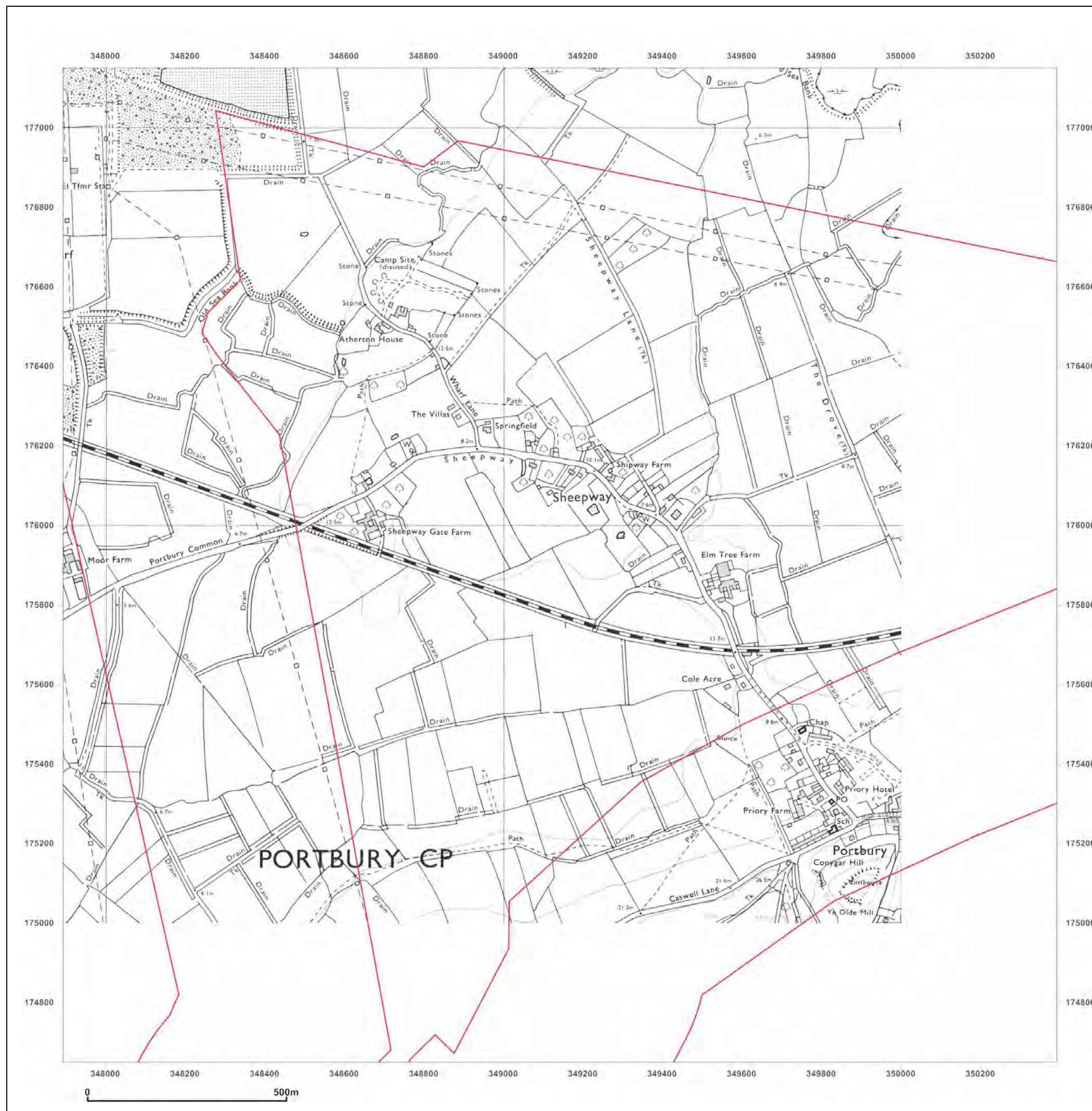


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** Provisional

**Map date:** 1955-1960

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed N/A  
 Revised 1960  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

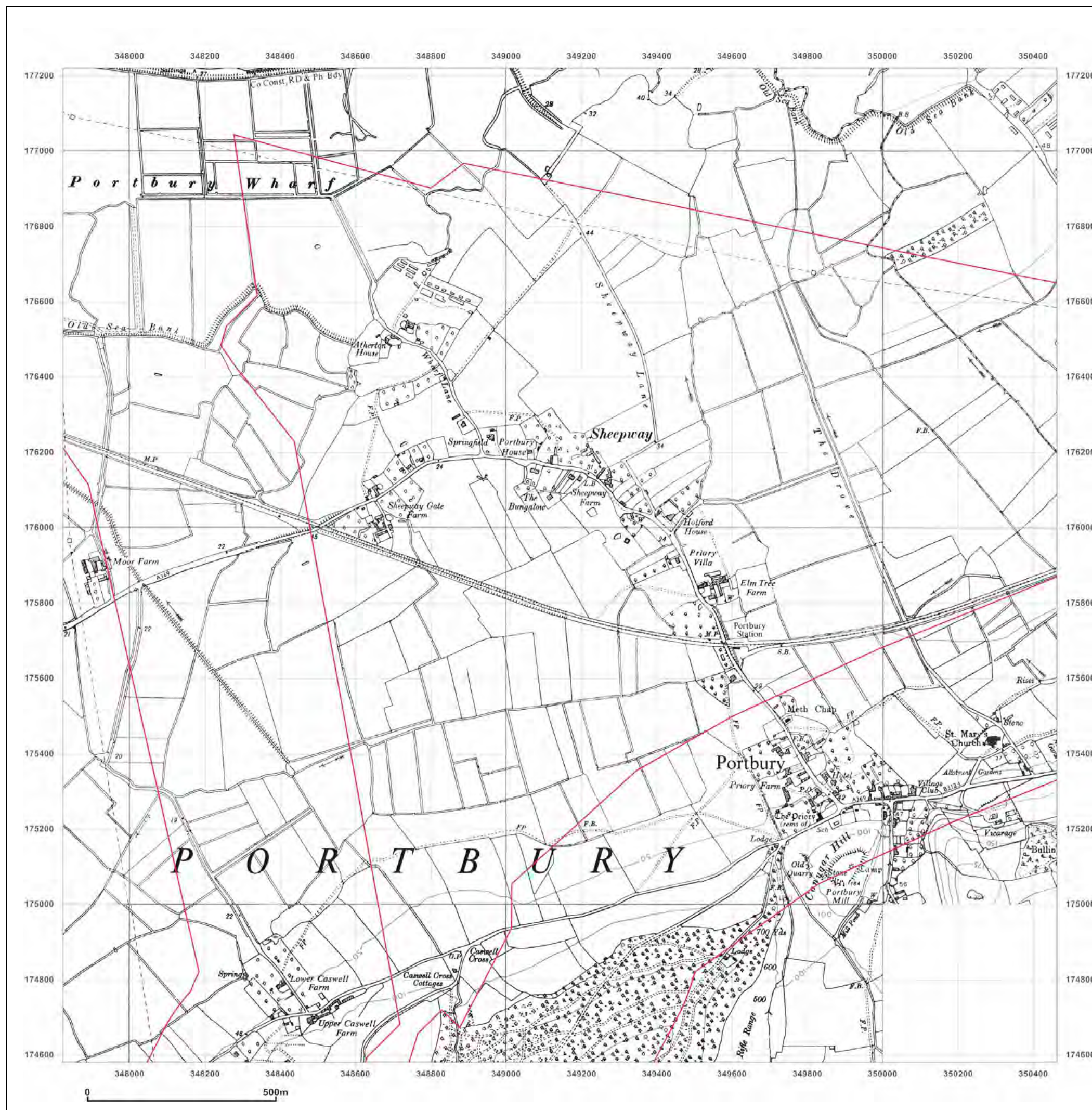


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series

**Map date:** 1938

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1880  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1879  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

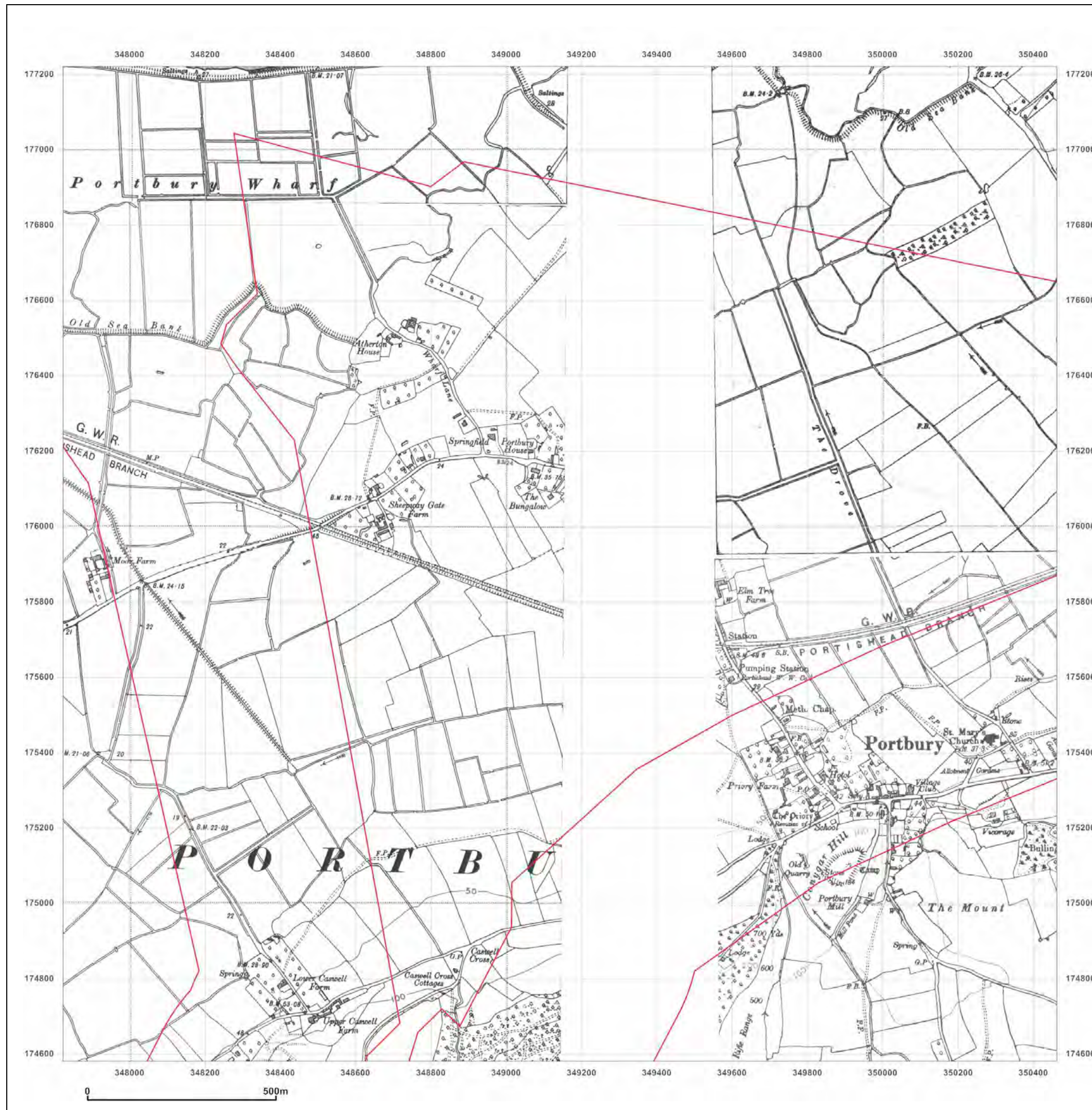


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series

**Map date:** 1930

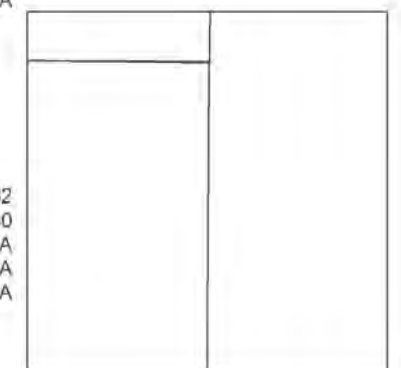
**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1930  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1930  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

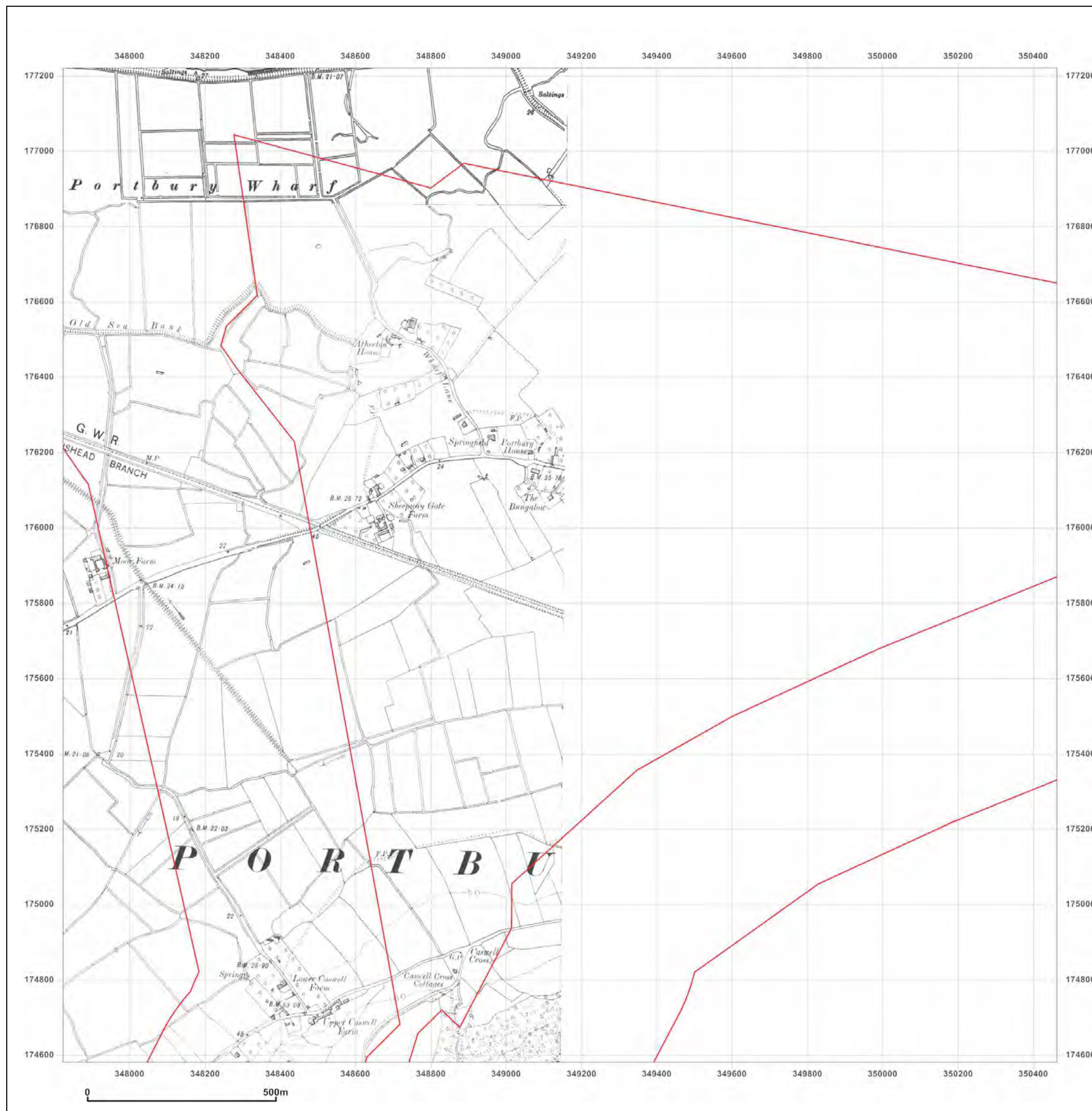


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series

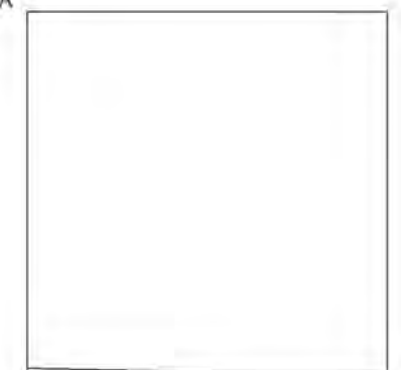
**Map date:** 1922

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1886  
 Revised 1922  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

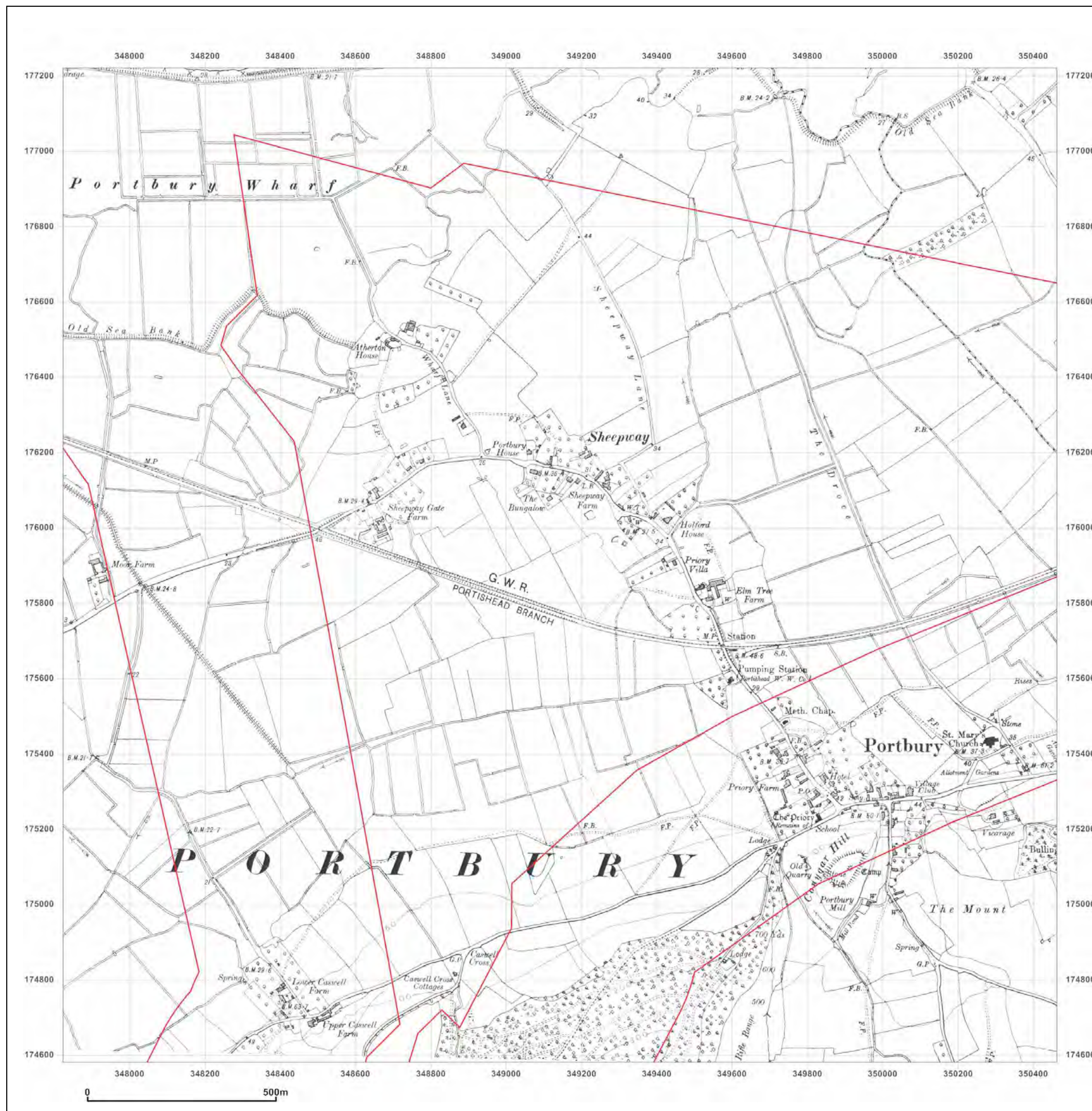


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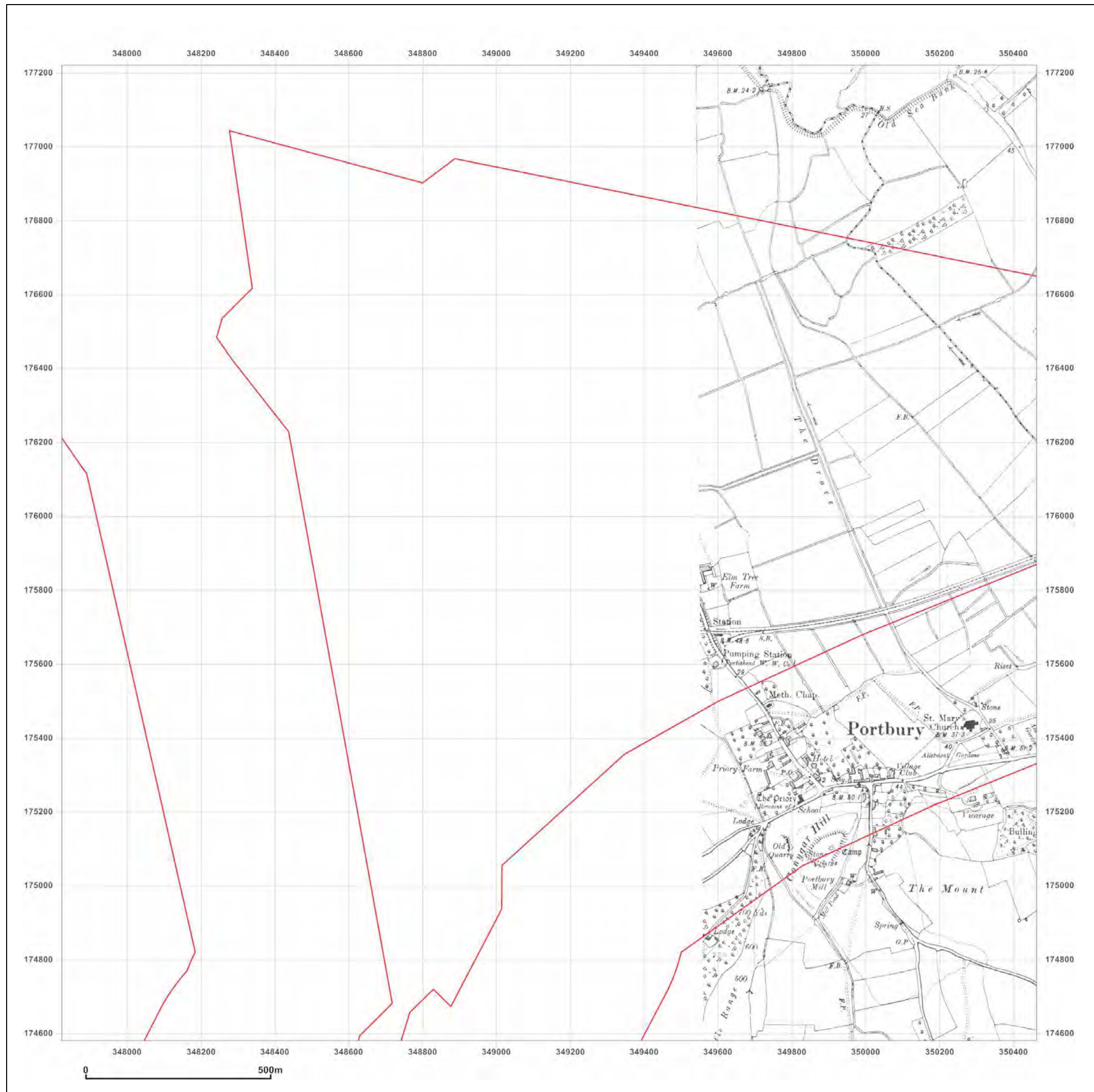
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Production date: 23 May 2013

To view map legend click here [\[Link\]](#)



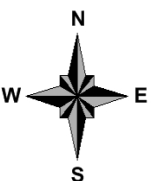




**Site Details:**  
Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series  
**Map date:** 1921  
**Scale:** 1:10,560  
**Printed at:** 1:10,560



Surveyed 1881  
Revised 1921  
Edition N/A  
Copyright N/A  
Levelled N/A



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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series

**Map date:** 1920

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1920  
 Edition 1920  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1920  
 Edition 1920  
 Copyright N/A  
 Levelled N/A

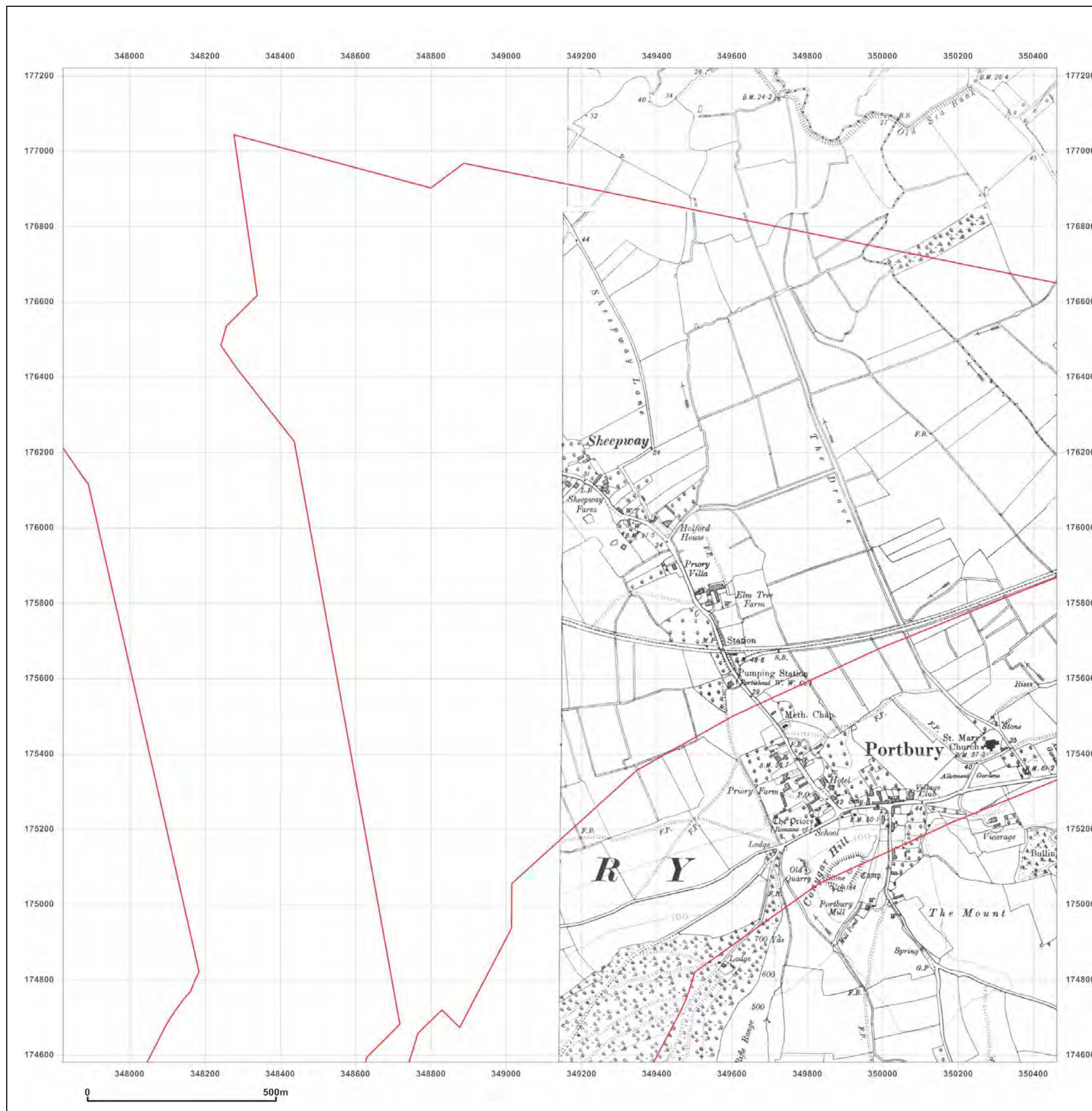


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series

**Map date:** 1912

**Scale:** 1:10,560

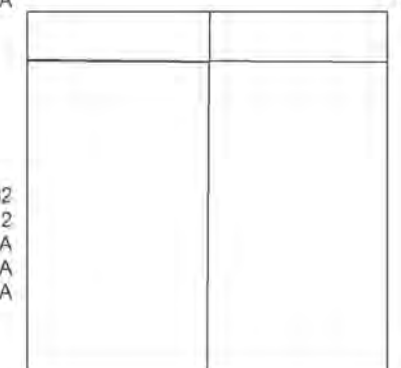
**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1912  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1912  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1912  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

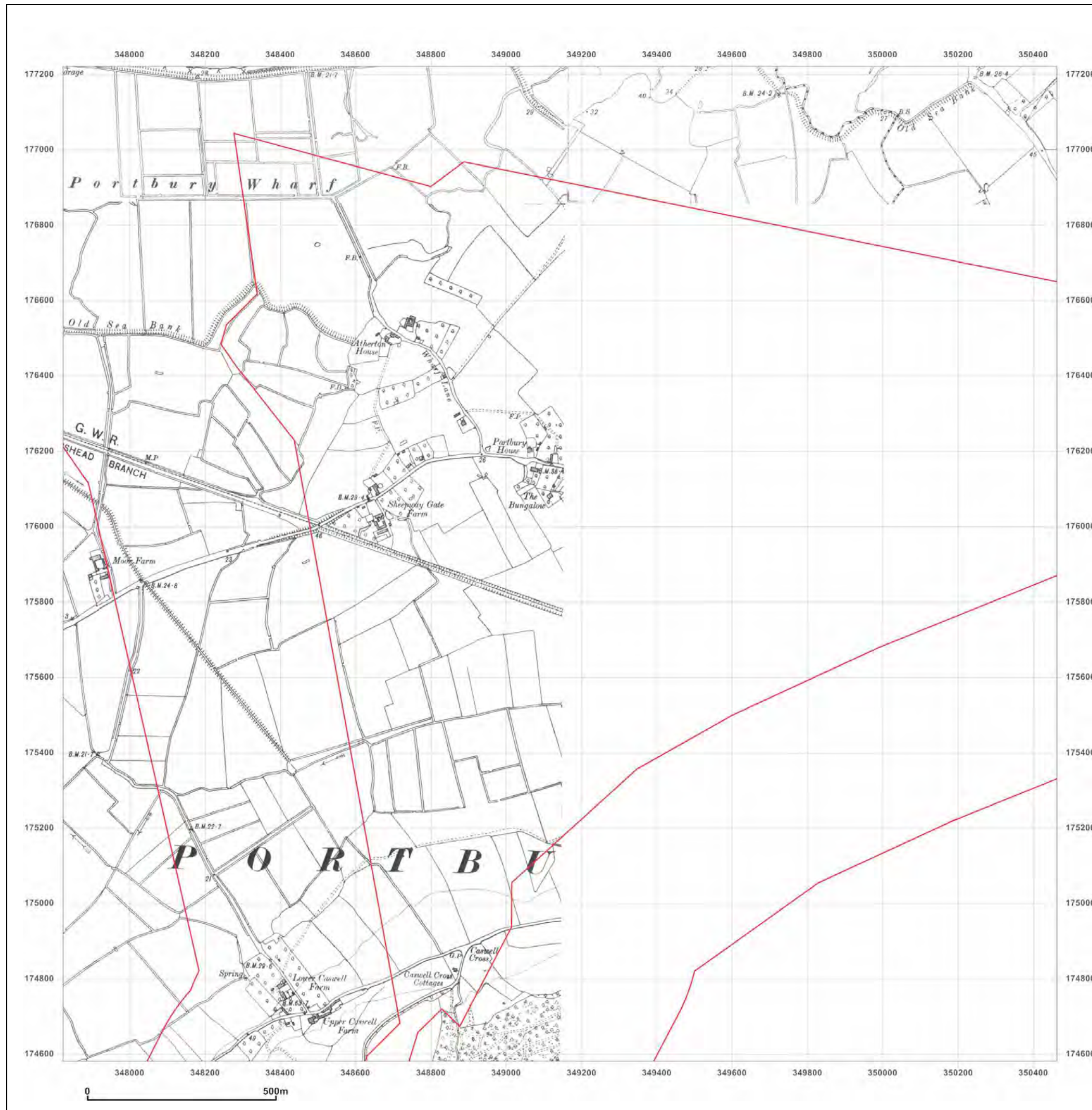


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**Site Details:**

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series

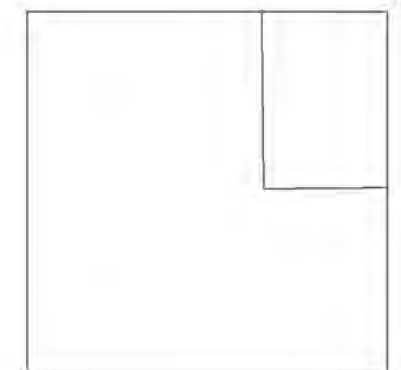
**Map date:** 1912

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1880  
Revised 1912  
Edition N/A  
Copyright N/A  
Levelled N/A

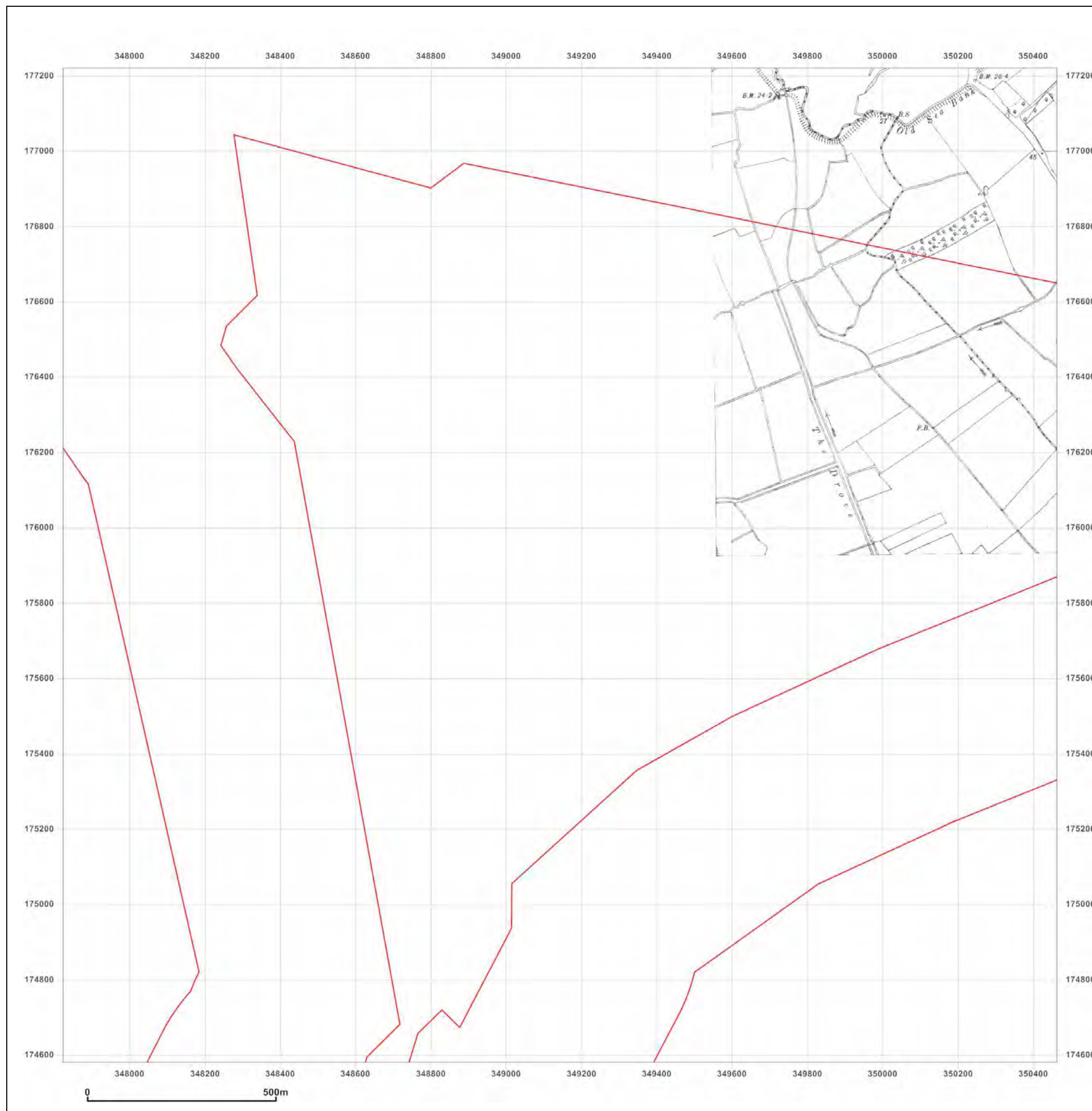


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series

**Map date:** 1901-1904

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1902  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1902  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1902  
 Edition 1904  
 Copyright N/A  
 Levelled N/A

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

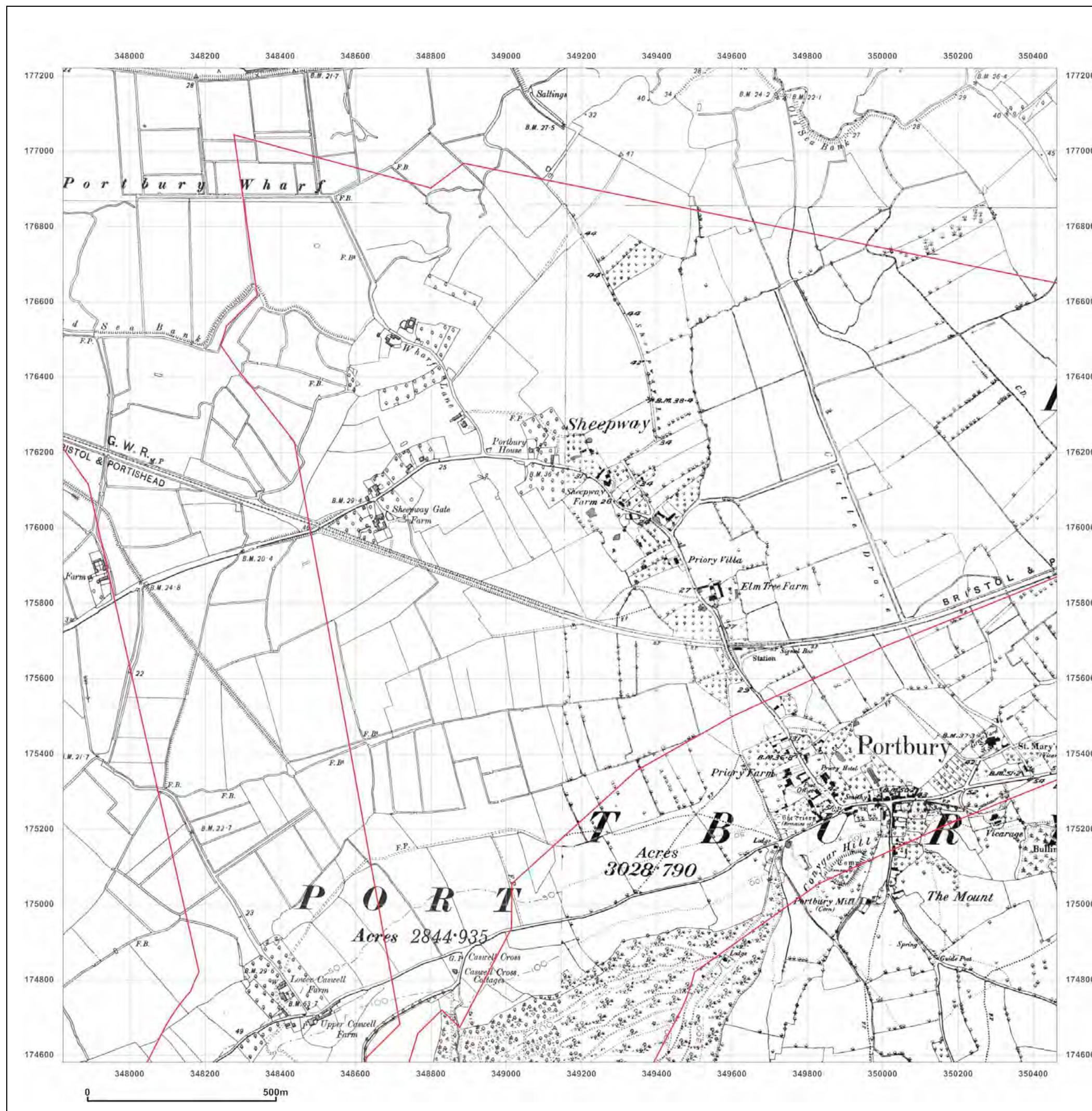


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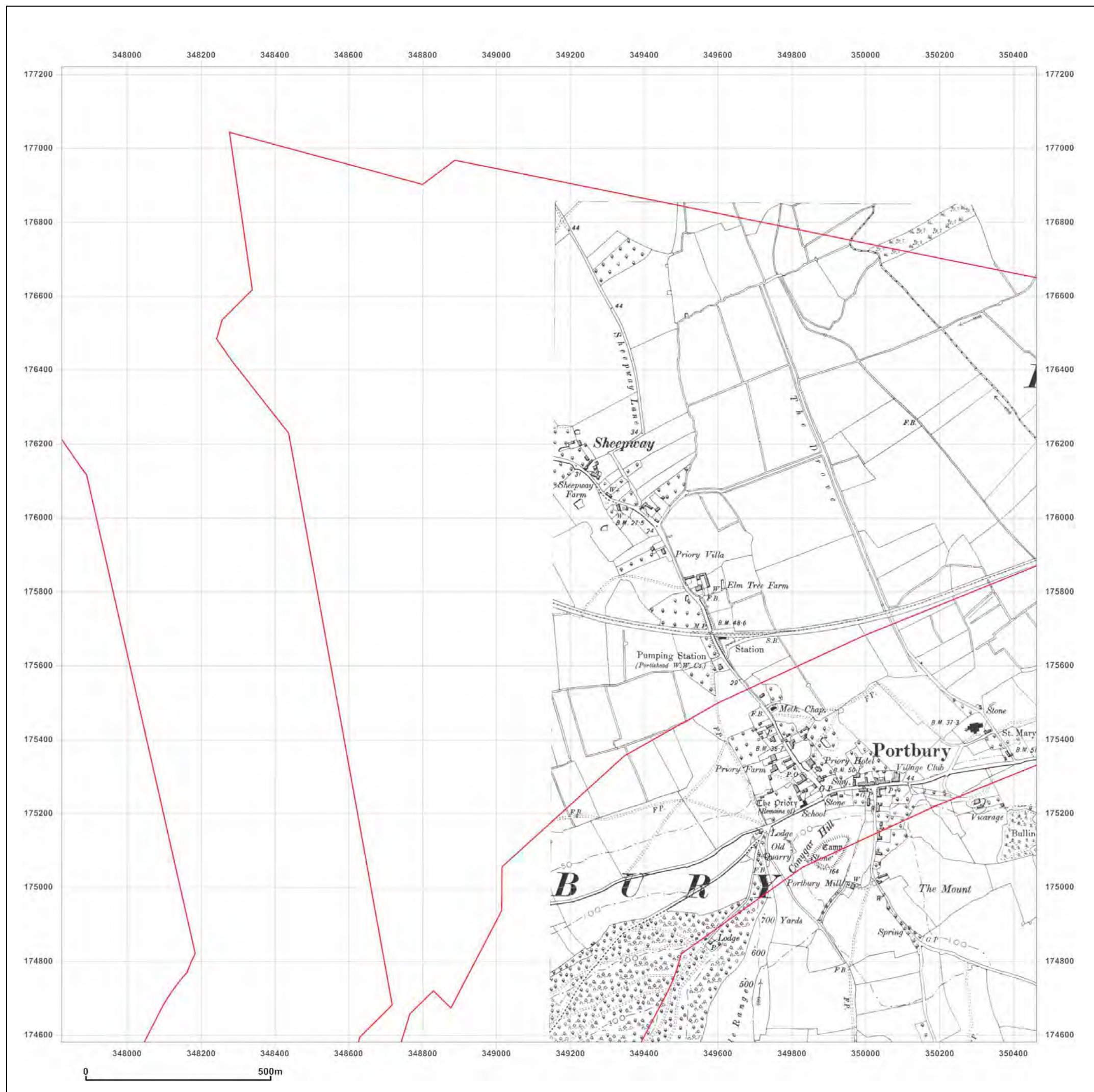
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Production date: 23 May 2013

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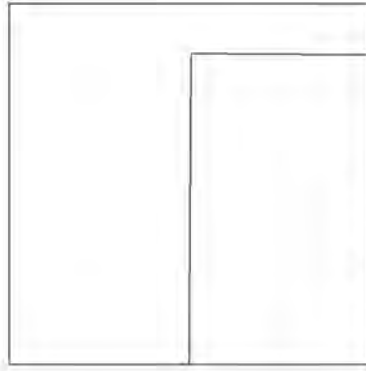
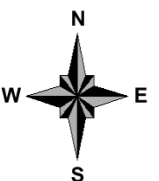





**Site Details:**  
Hinkley Project


**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series  
**Map date:** 1902  
**Scale:** 1:10,560  
**Printed at:** 1:10,560




Surveyed 1882  
Revised 1902  
Edition N/A  
Copyright N/A  
Levelled N/A

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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series

**Map date:** 1900-1901

**Scale:** 1:10,560

**Printed at:** 1:10,560



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

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

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

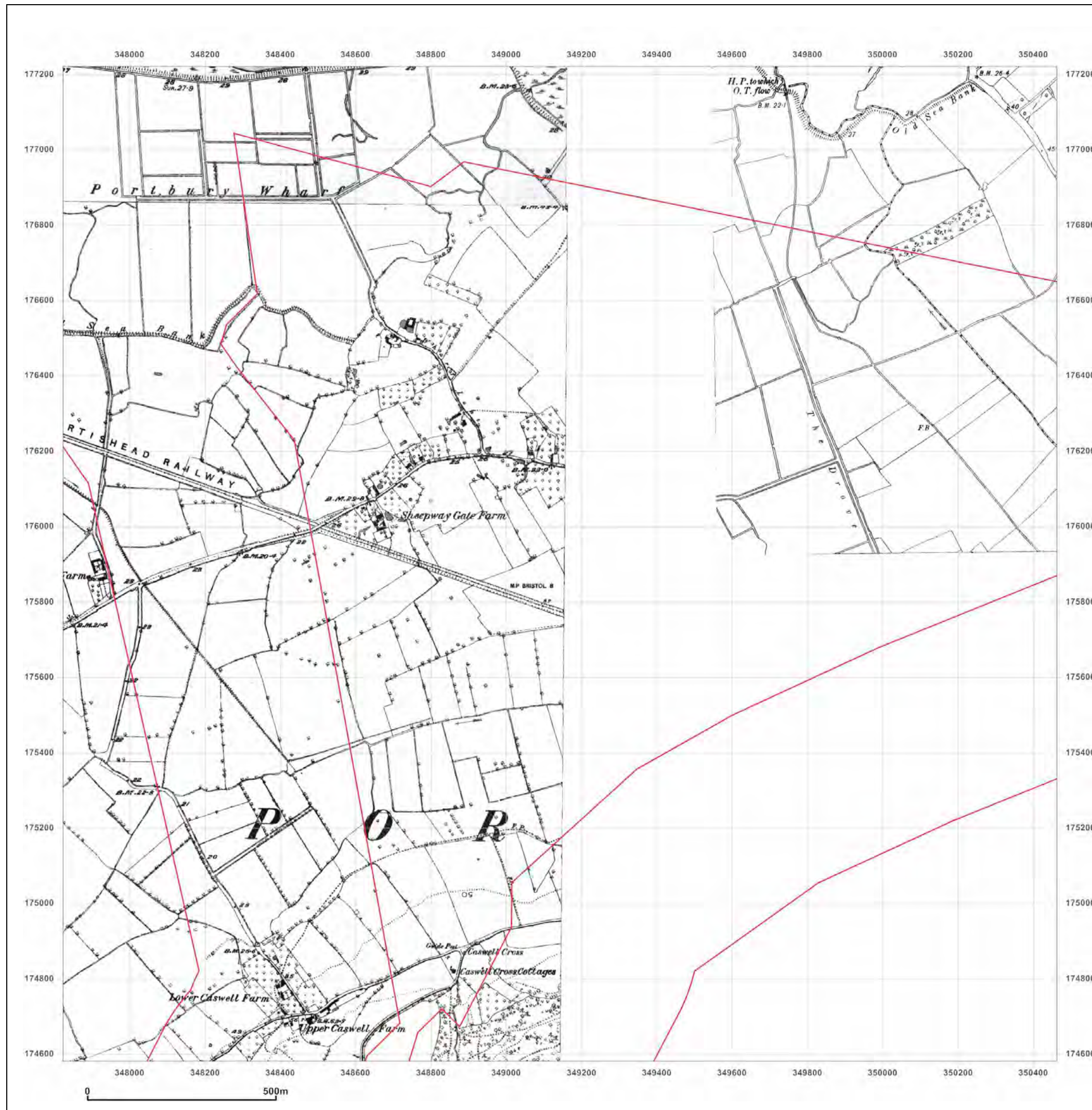


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_D5  
**Grid Ref:** 349142, 175900

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1883  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

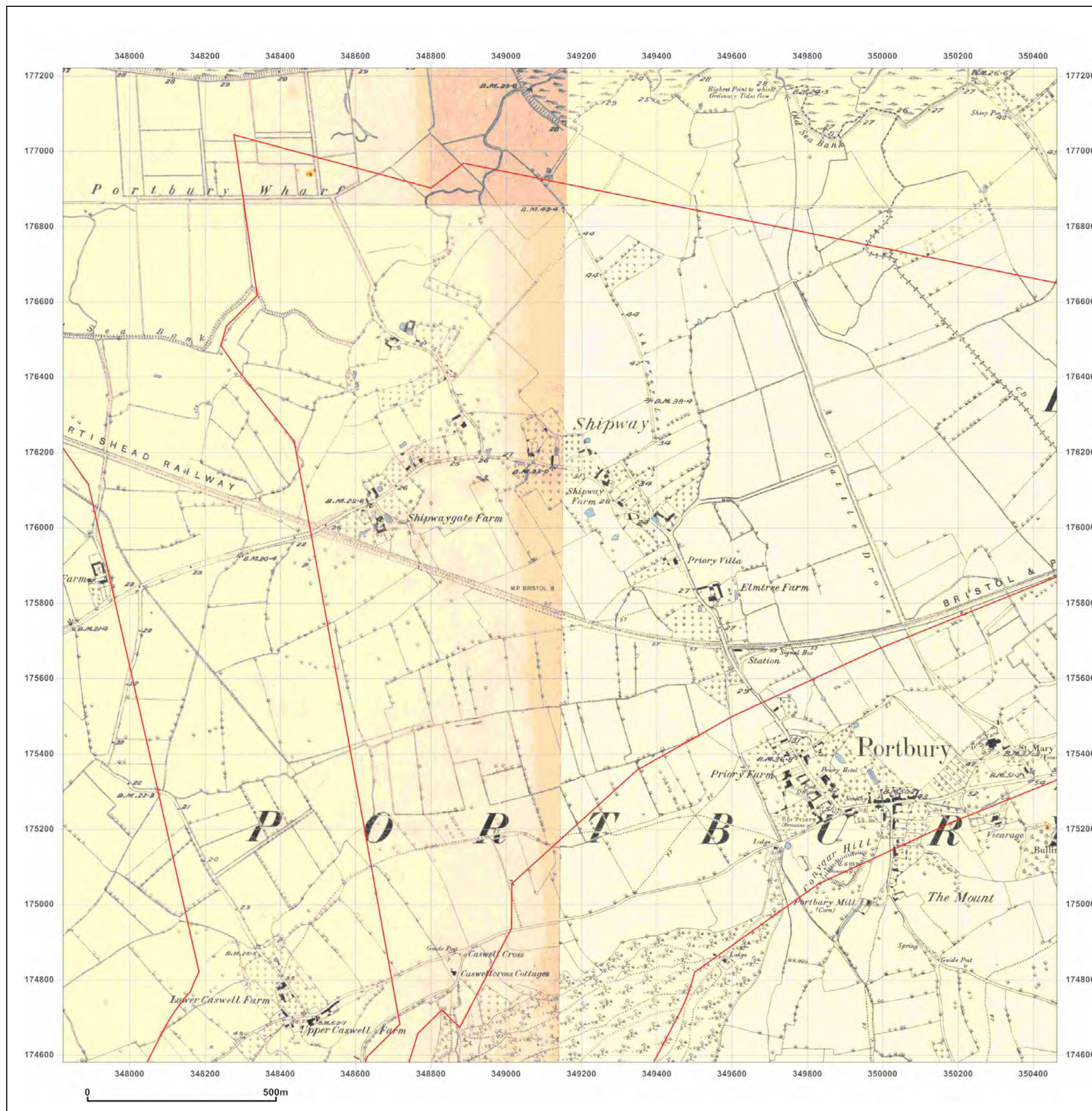


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C7  
**Grid Ref:** 346990, 171185

**Map Name:** National Grid

**Map date:** 2012

**Scale:** 1:10,000

**Printed at:** 1:10,000

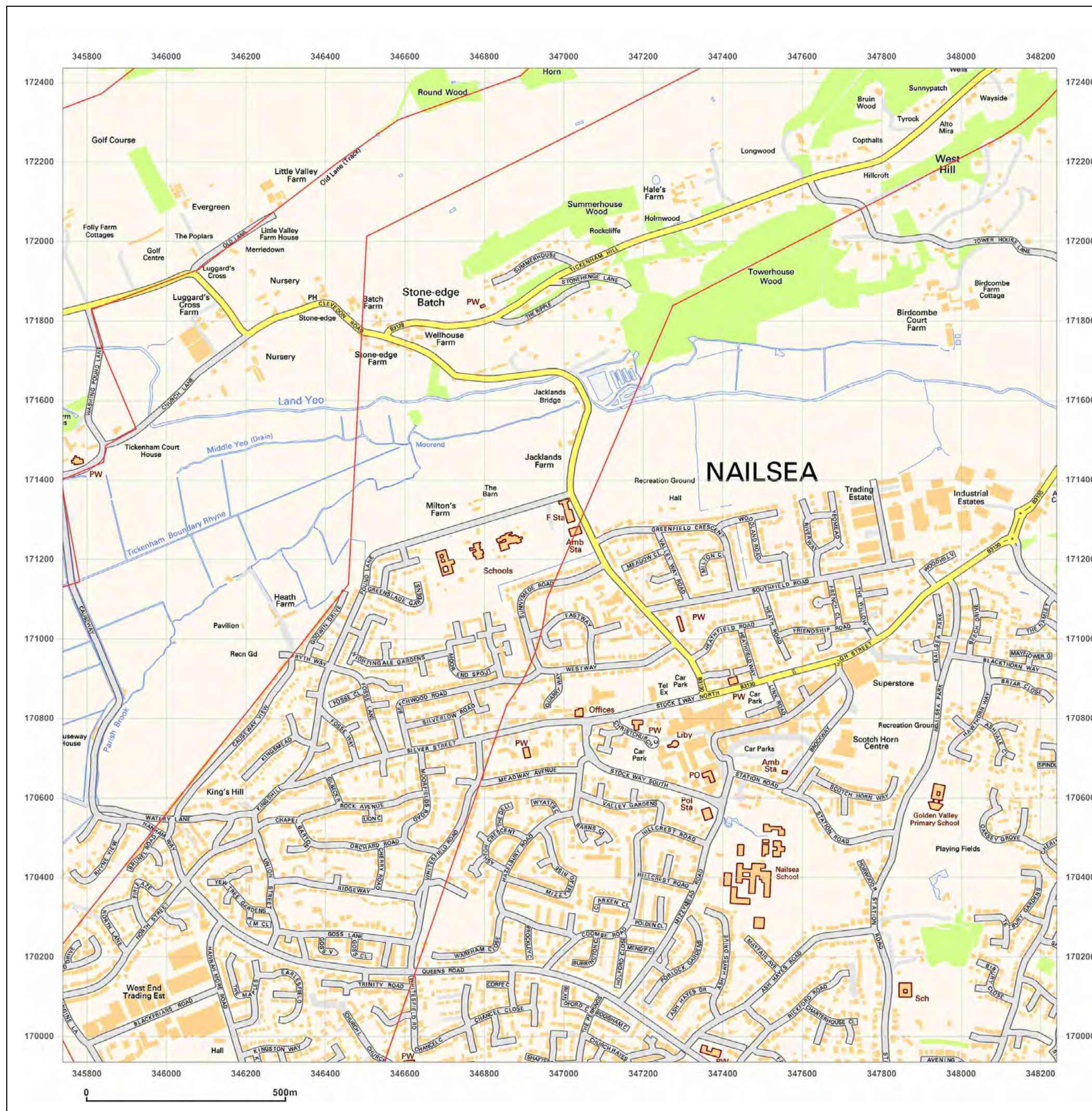


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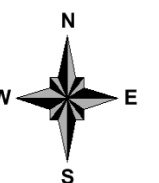
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**Report Ref:** HMD-278-816308\_7\_SS\_C7  
**Grid Ref:** 346990, 171185

**Map Name:** 1:10,000 Raster

**Map date:** 2002

**Scale:** 1:10,000

**Printed at:** 1:10,000



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C7  
**Grid Ref:** 346990, 171185

**Map Name:** National Grid

**Map date:** 1978-1980

**Scale:** 1:10,000

**Printed at:** 1:10,000



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

Surveyed 1978  
 Revised 1980  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

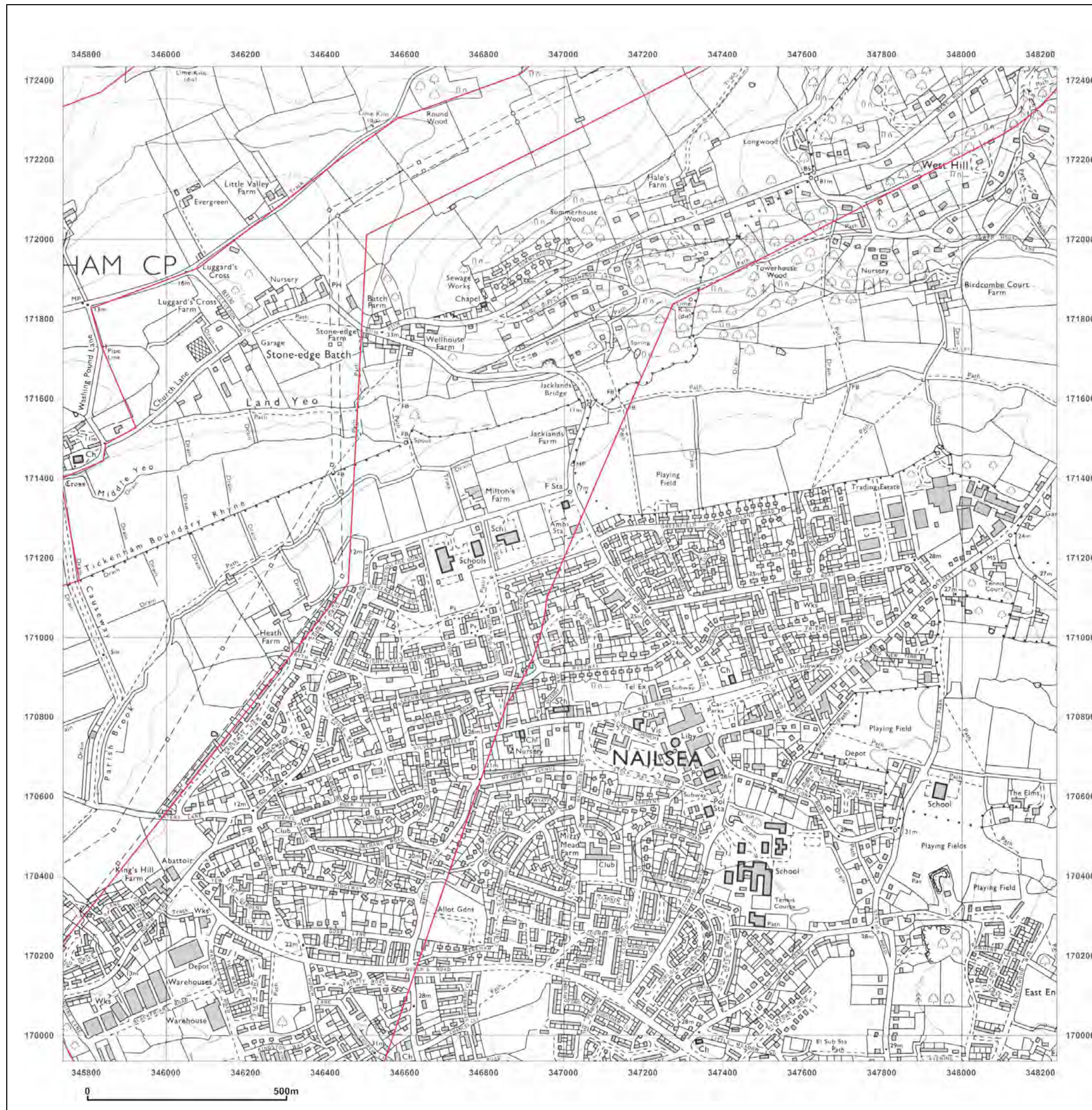


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C7  
**Grid Ref:** 346990, 171185

**Map Name:** Provisional

**Map date:** 1960

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

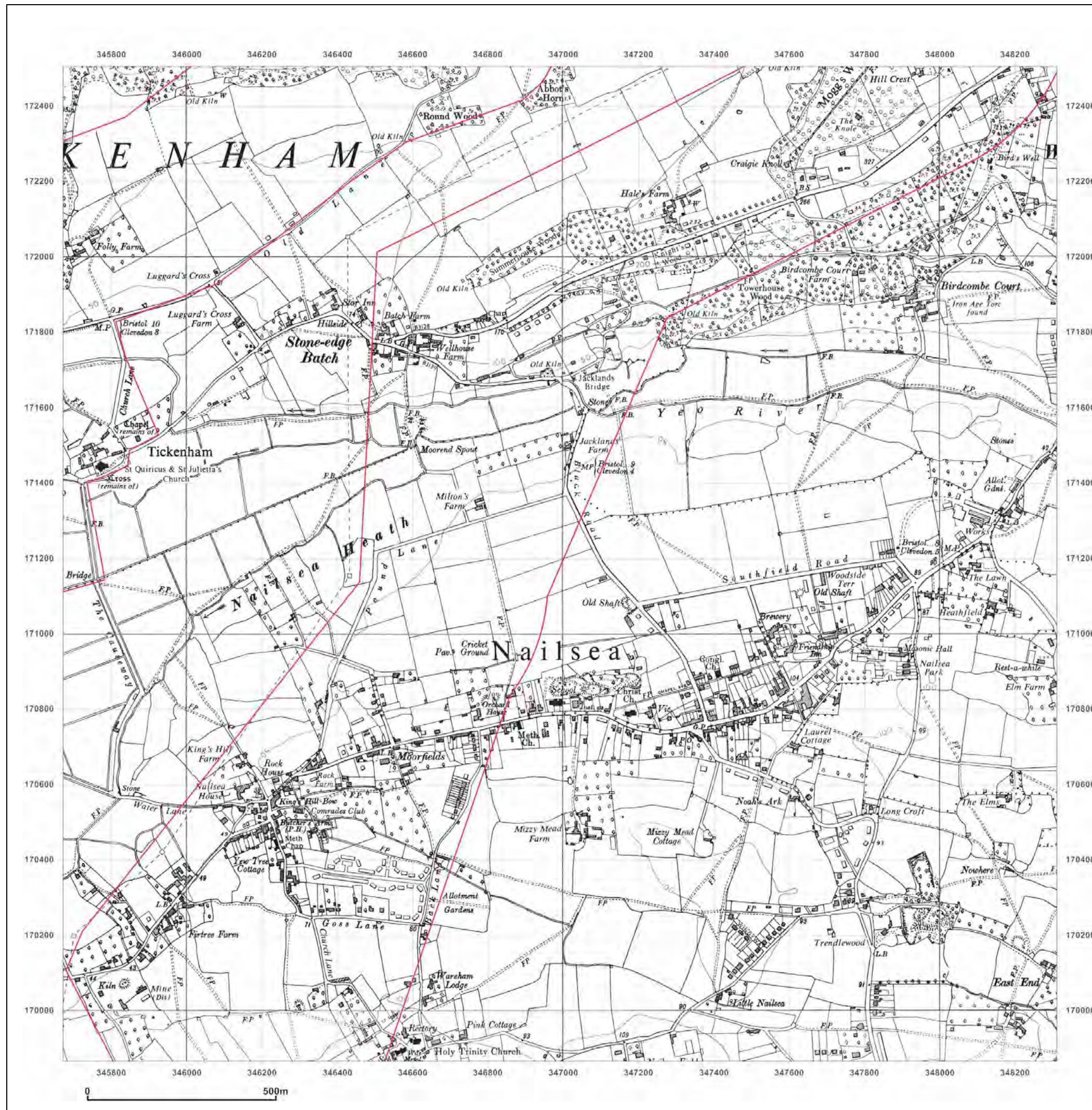


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C7  
**Grid Ref:** 346990, 171185

**Map Name:** County Series

**Map date:** 1930-1932

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1883  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1930  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

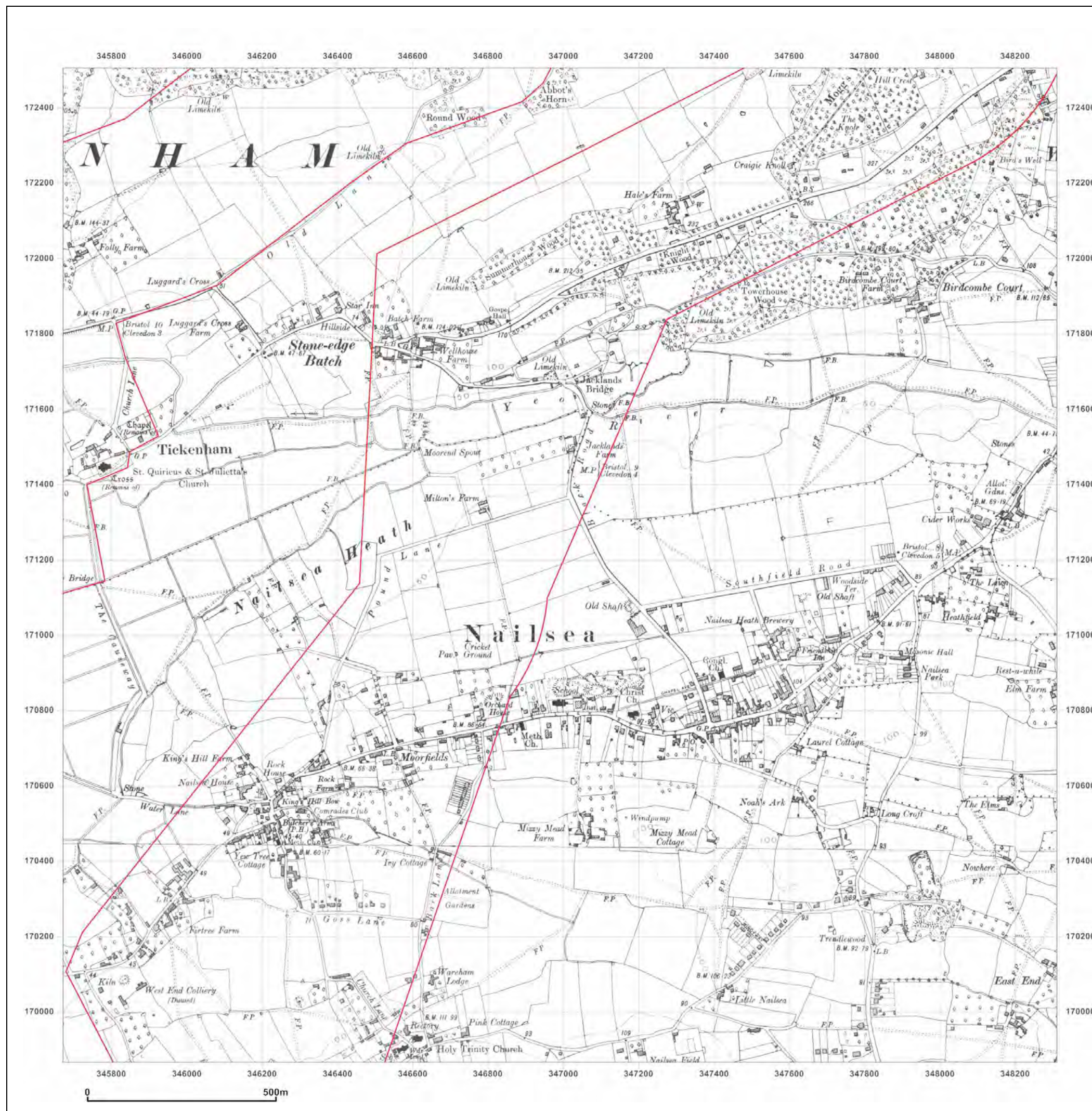


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C7  
**Grid Ref:** 346990, 171185

**Map Name:** County Series

**Map date:** 1902

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1883  
 Revised 1902  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1882  
 Revised 1902  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

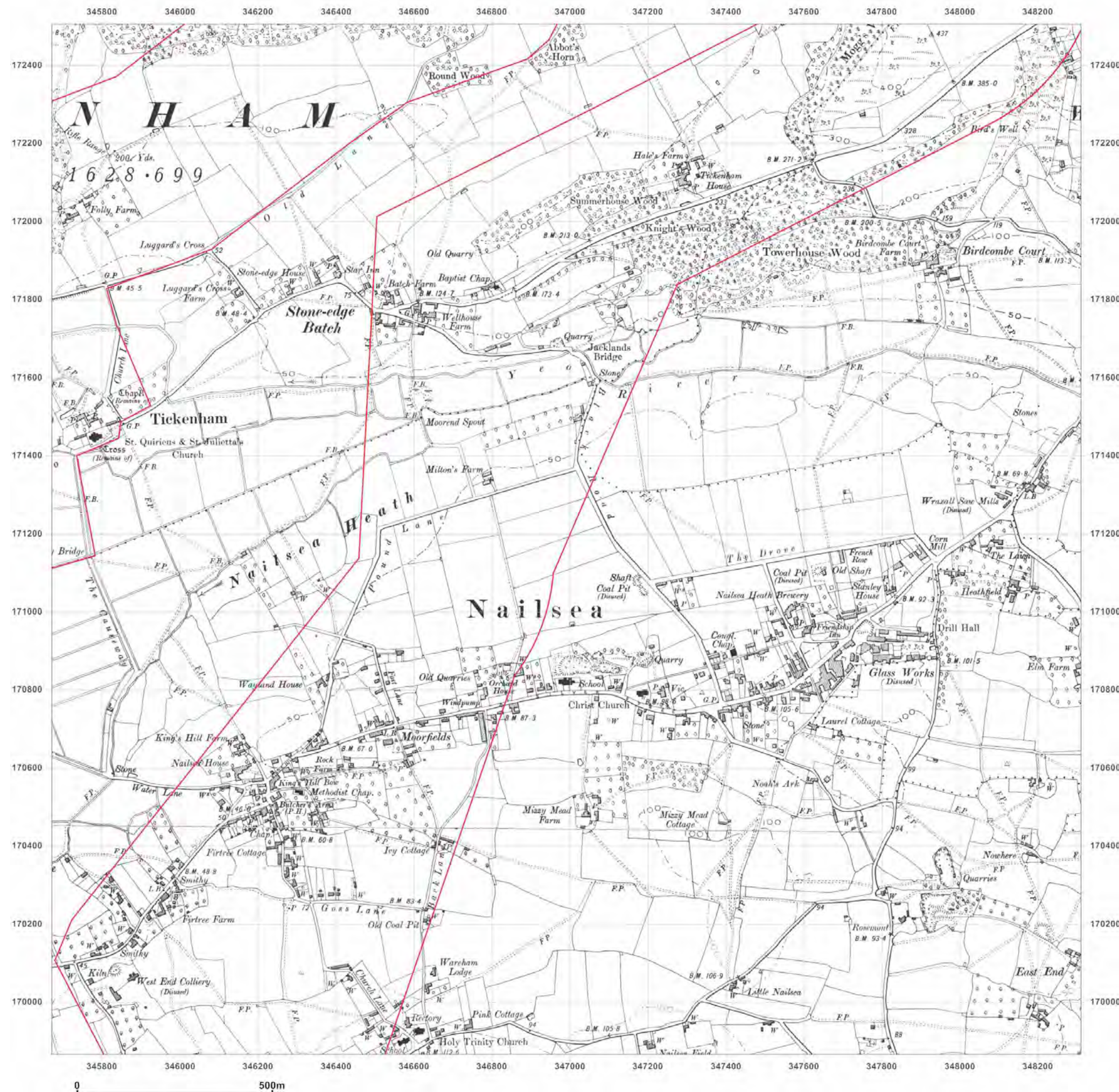


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**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C7  
**Grid Ref:** 346990, 171185

**Map Name:** County Series

**Map date:** 1883-1884

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1883  
 Revised 1883  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

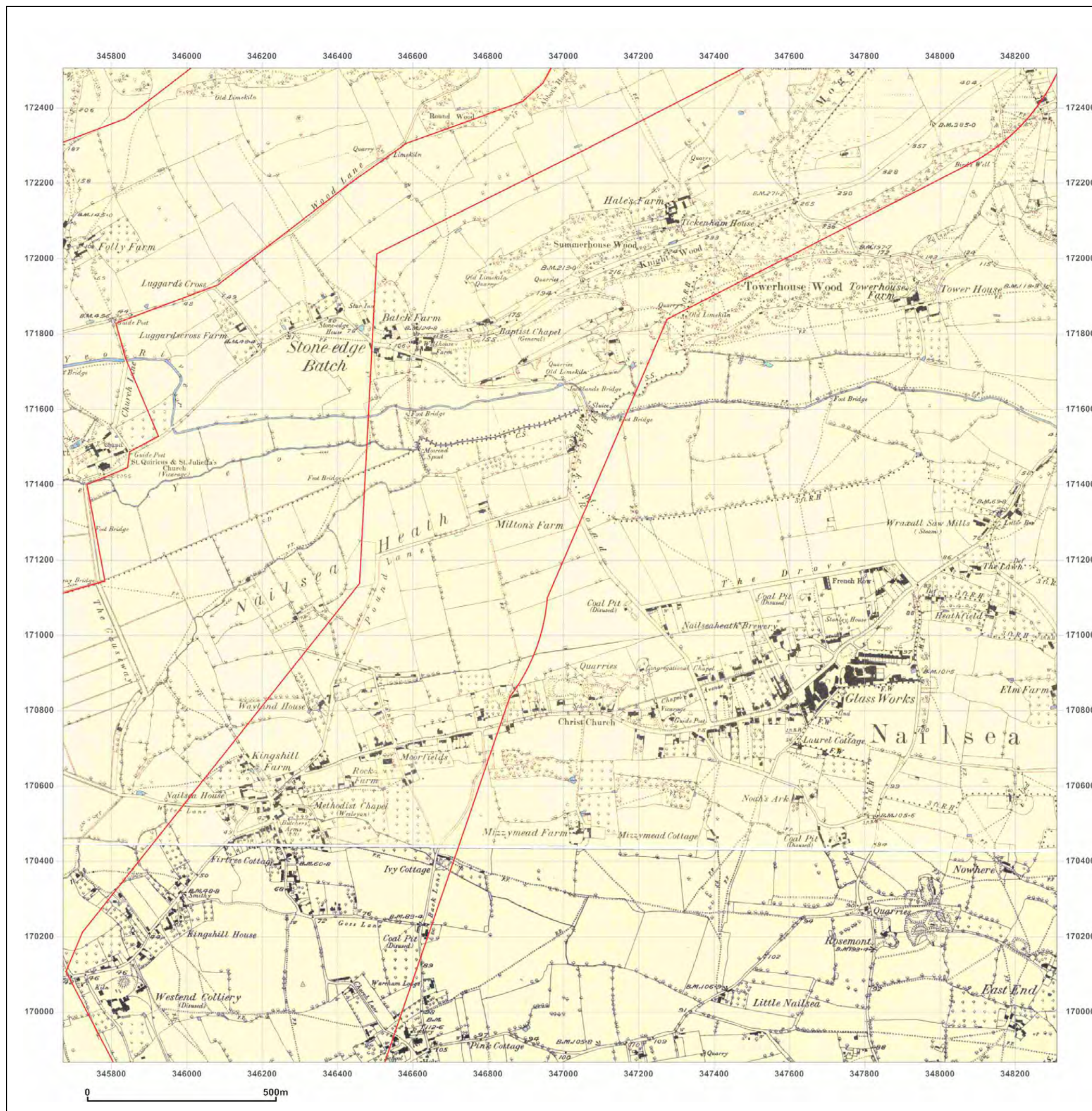


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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C6  
**Grid Ref:** 346992, 173541

**Map Name:** 1:10,000 Raster

**Map date:** 2002

**Scale:** 1:10,000

**Printed at:** 1:10,000

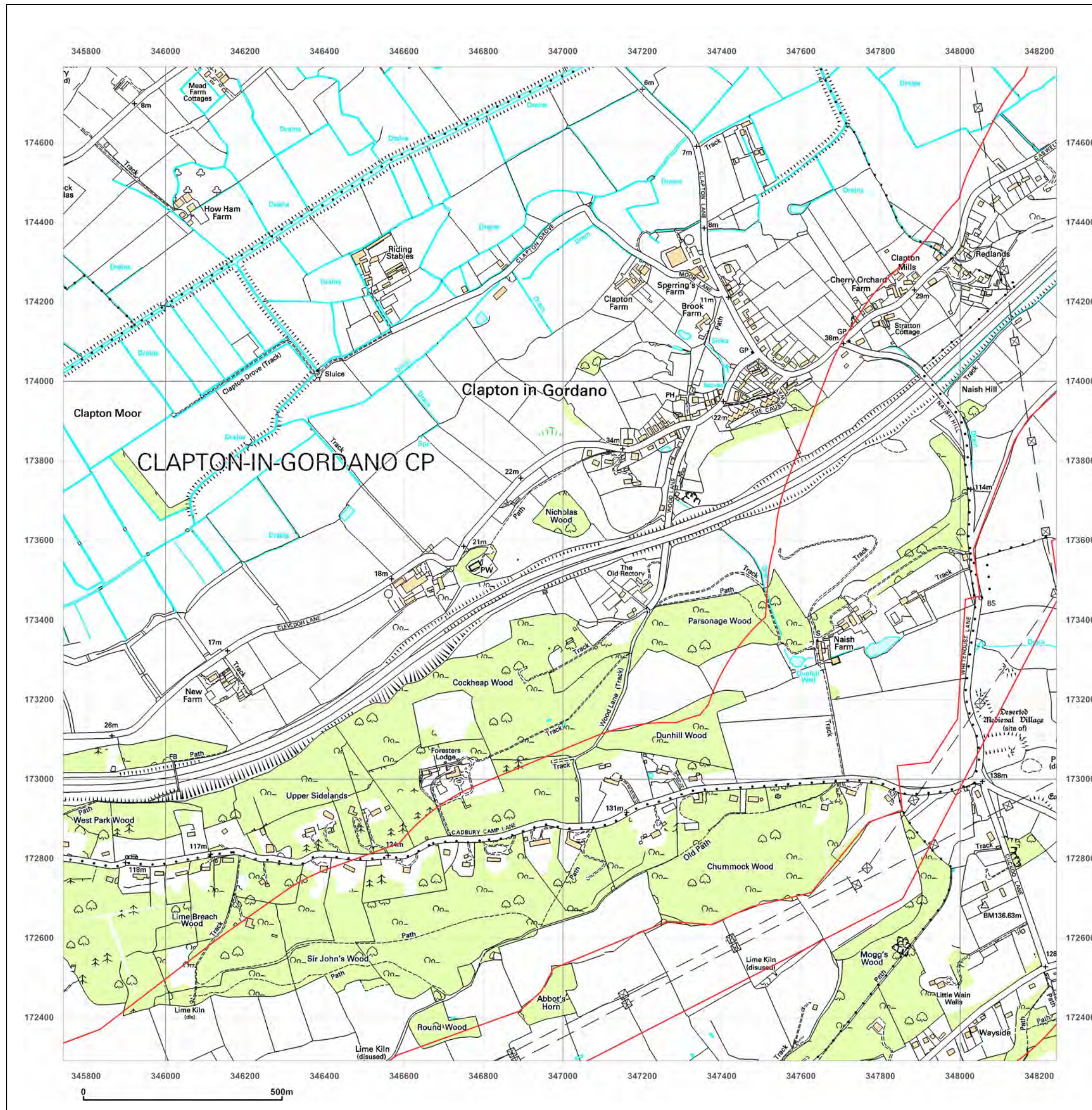


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C6  
**Grid Ref:** 346992, 173541

**Map Name:** National Grid

**Map date:** 1978

**Scale:** 1:10,000

**Printed at:** 1:10,000



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

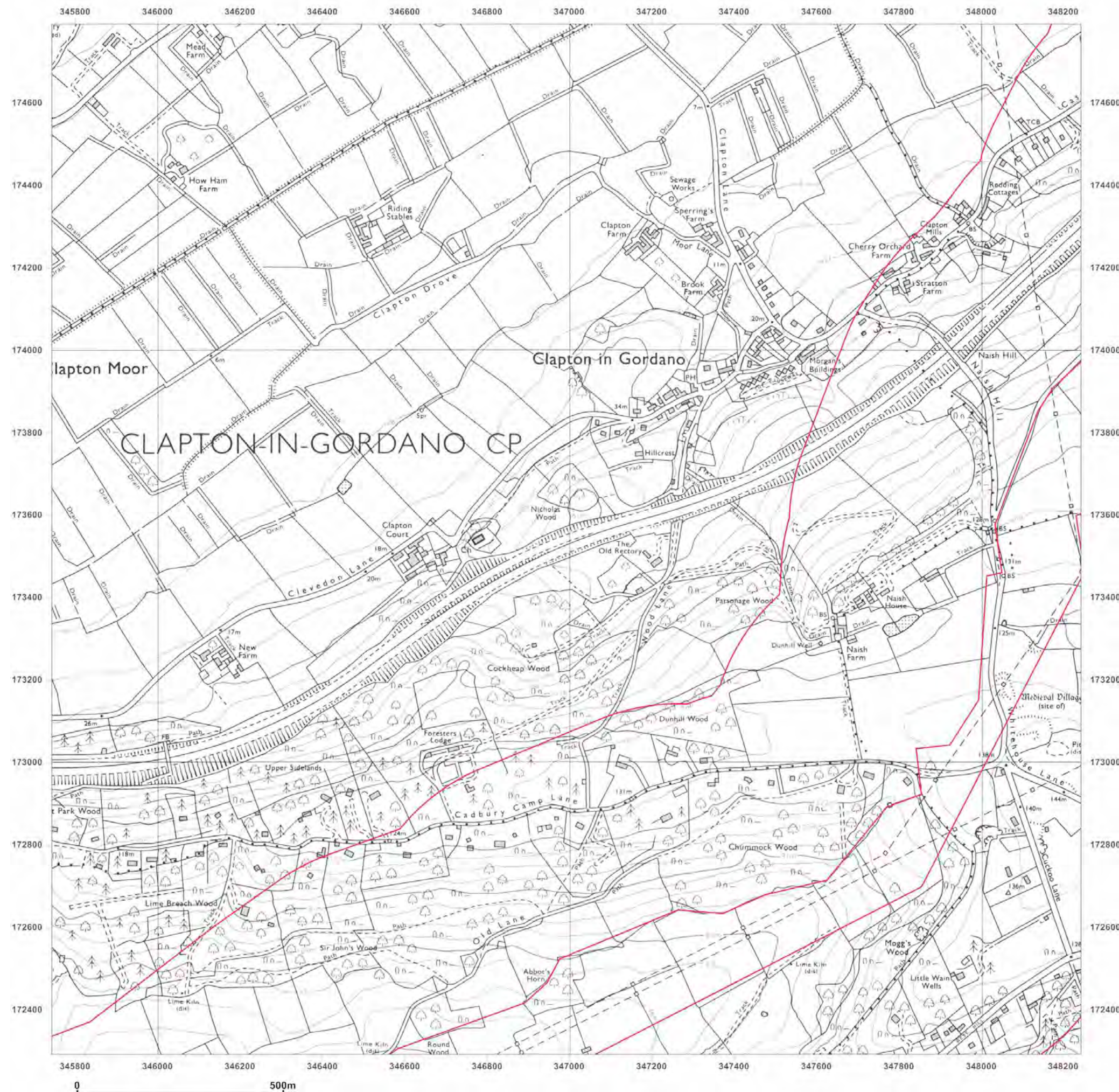


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C6  
**Grid Ref:** 346992, 173541

**Map Name:** Provisional

**Map date:** 1960

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

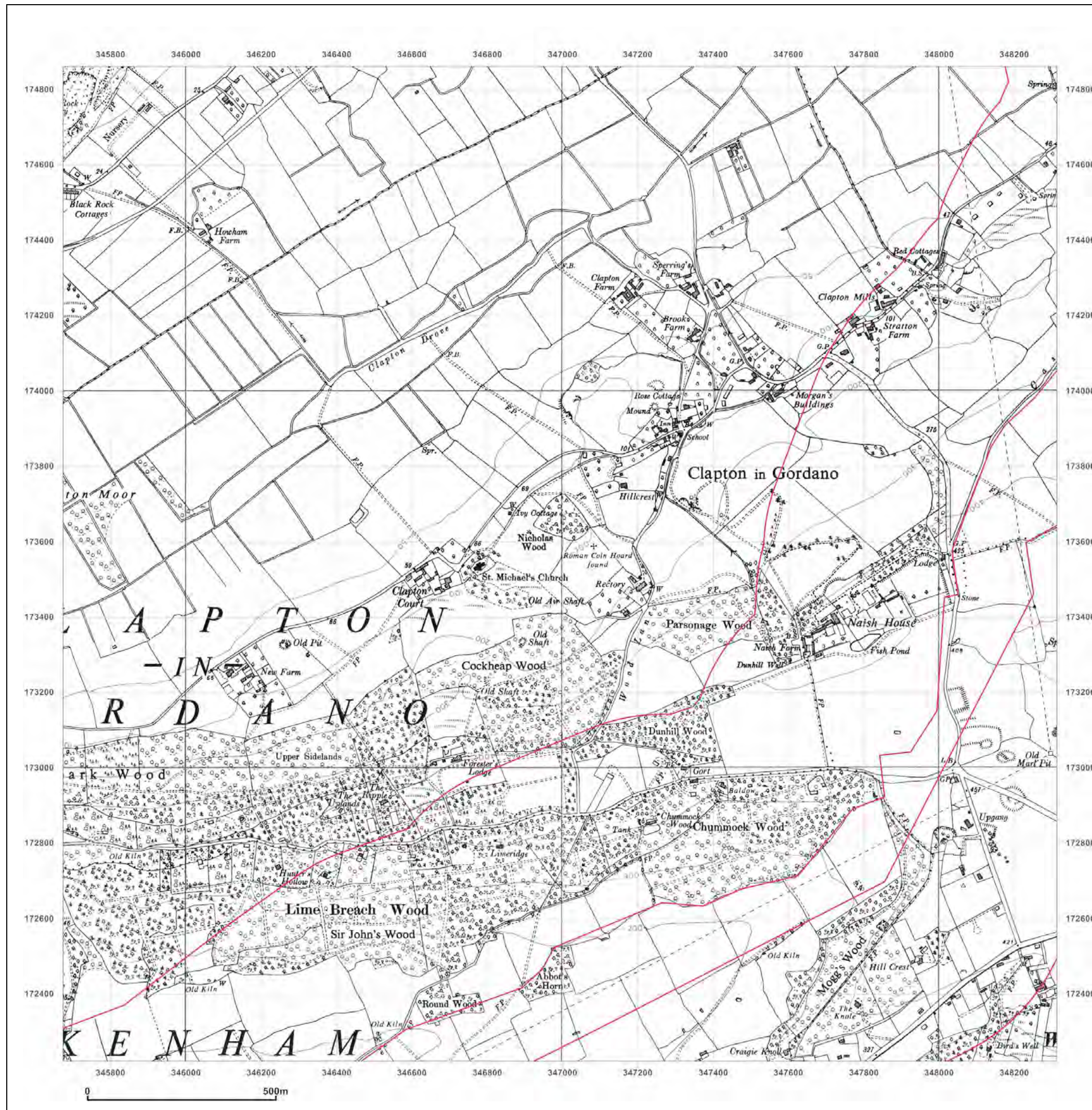


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C6  
**Grid Ref:** 346992, 173541

**Map Name:** County Series

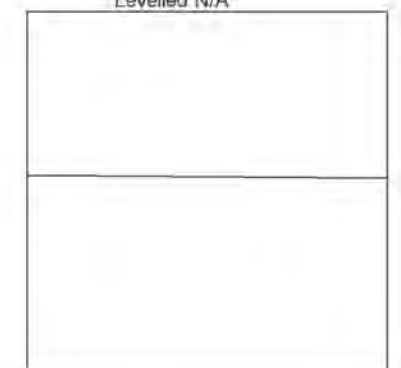
**Map date:** 1938

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

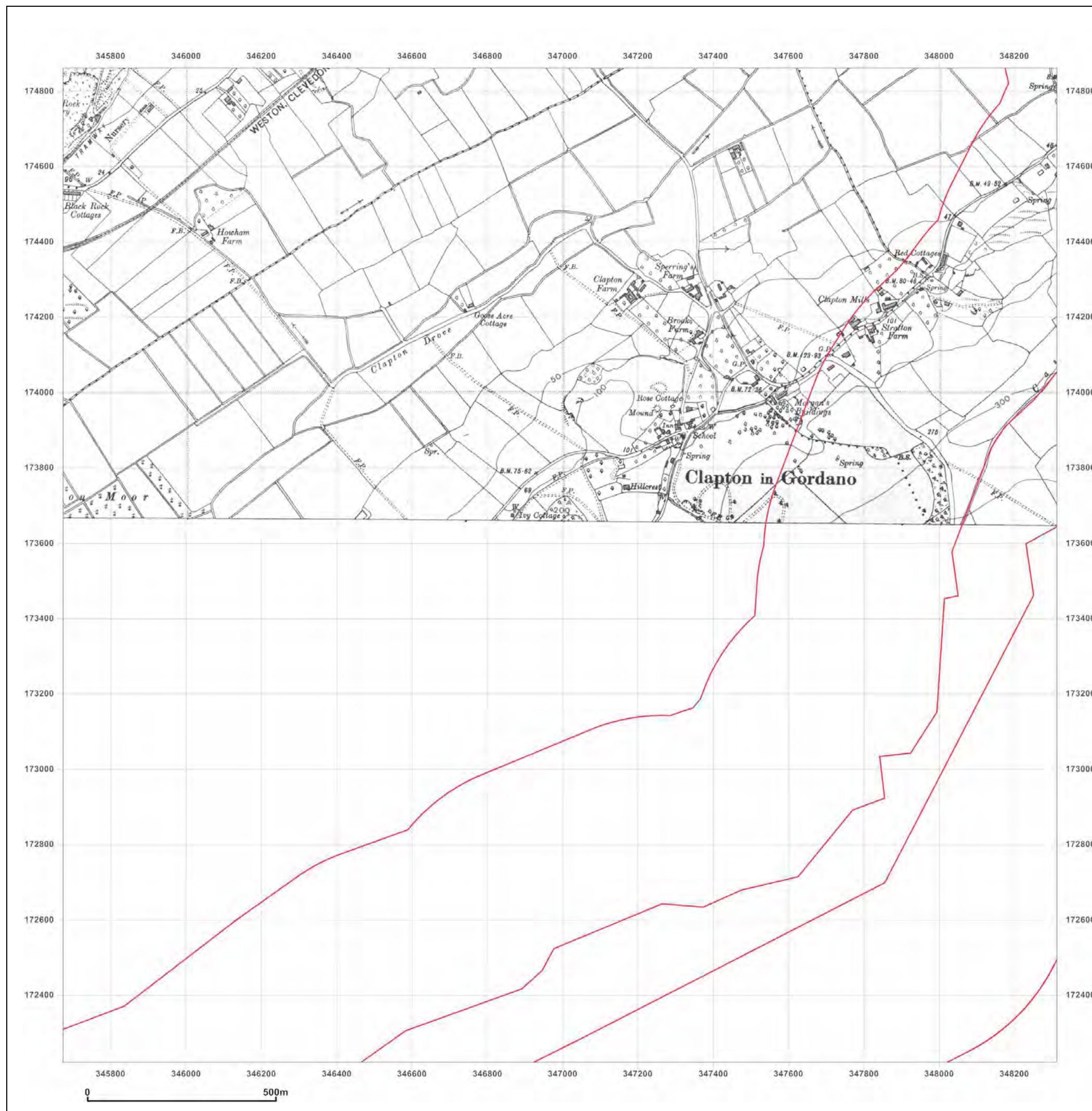


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C6  
**Grid Ref:** 346992, 173541

**Map Name:** County Series

**Map date:** 1930-1932

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1930  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

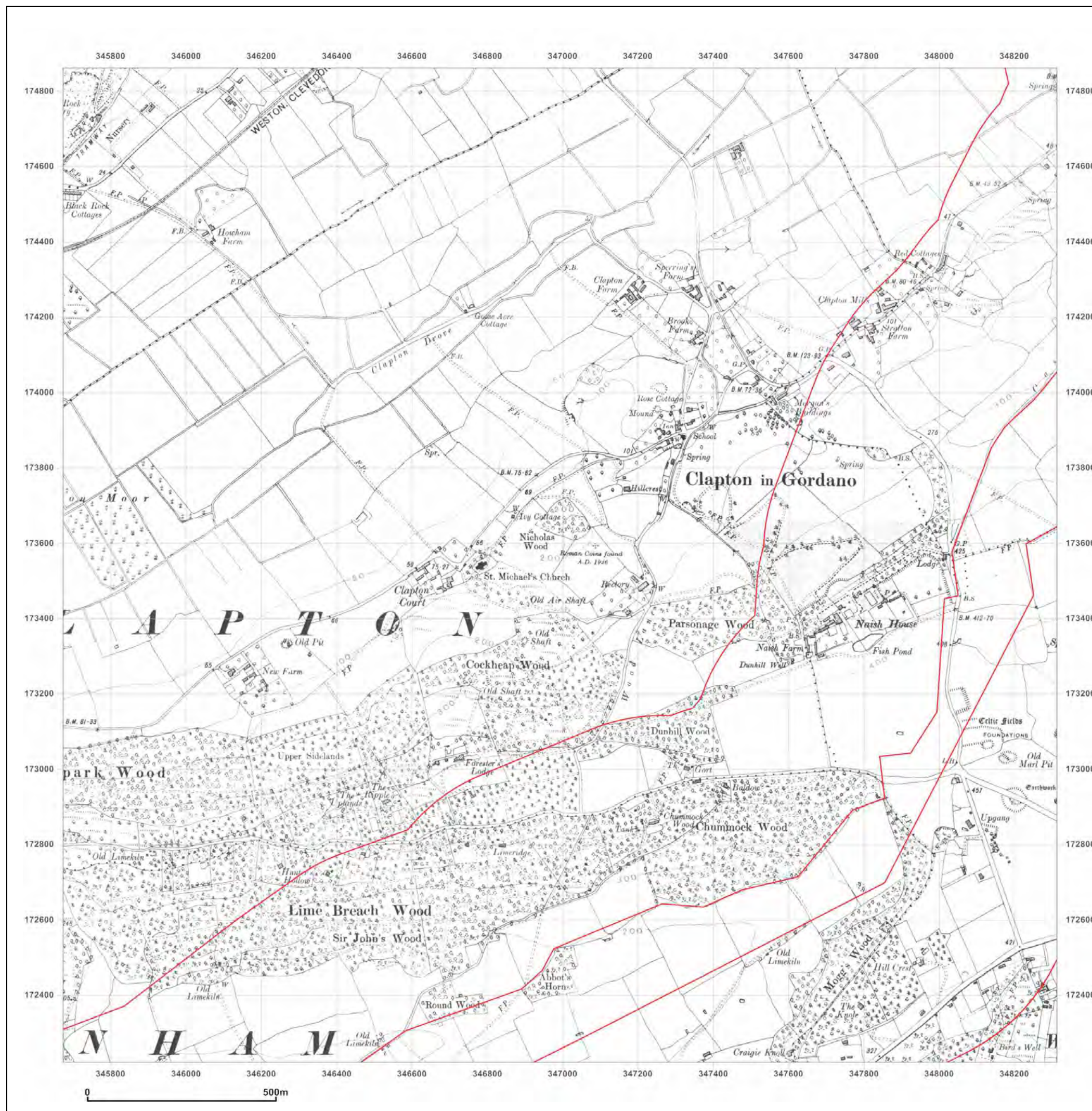


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**Report Ref:** HMD-278-816308\_7\_SS\_C6  
**Grid Ref:** 346992, 173541

**Map Name:** County Series

**Map date:** 1922

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1886  
 Revised 1922  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

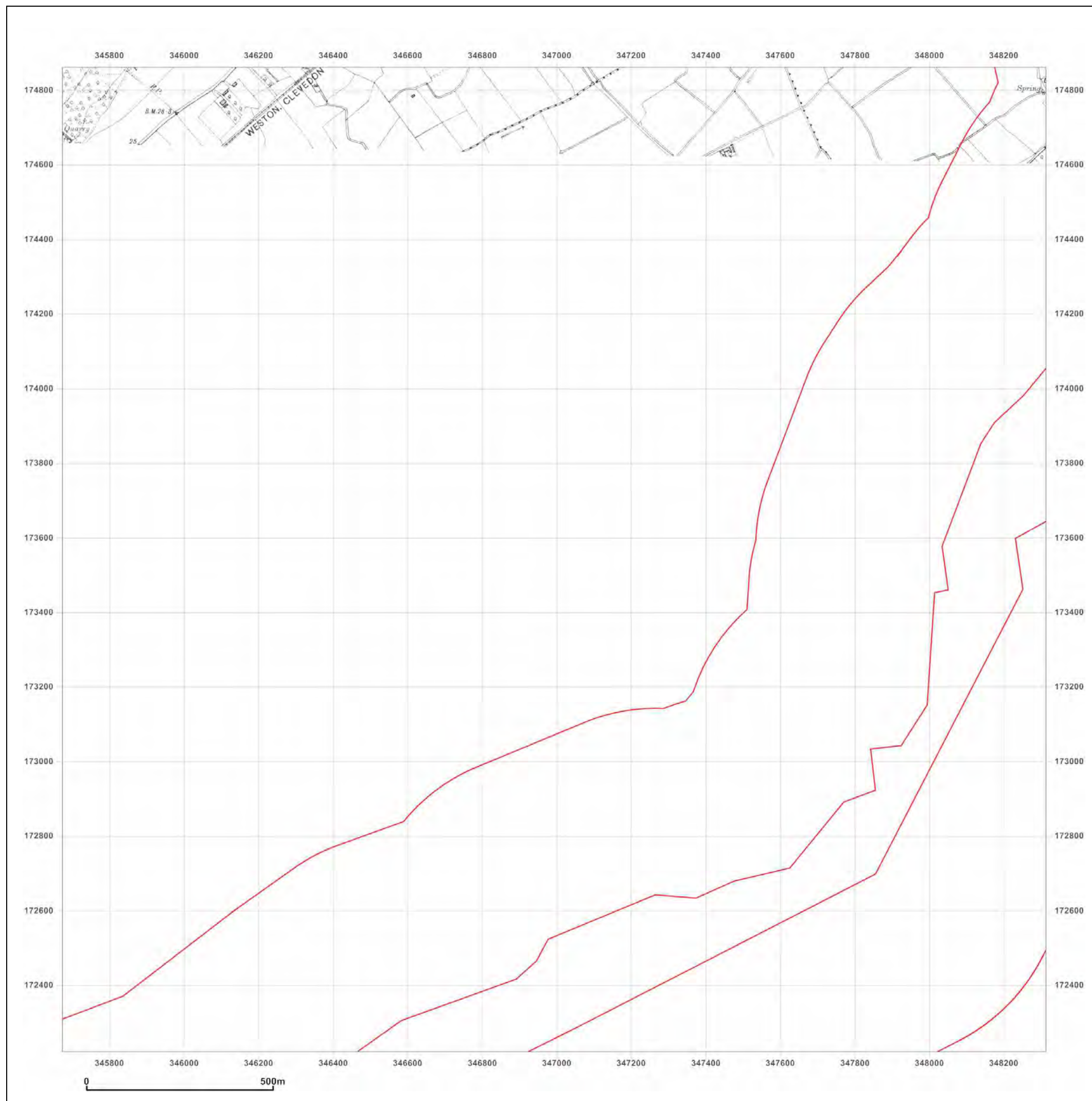


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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C6  
**Grid Ref:** 346992, 173541

**Map Name:** County Series

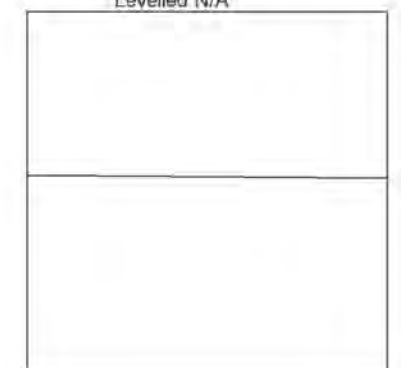
**Map date:** 1912

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1912  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

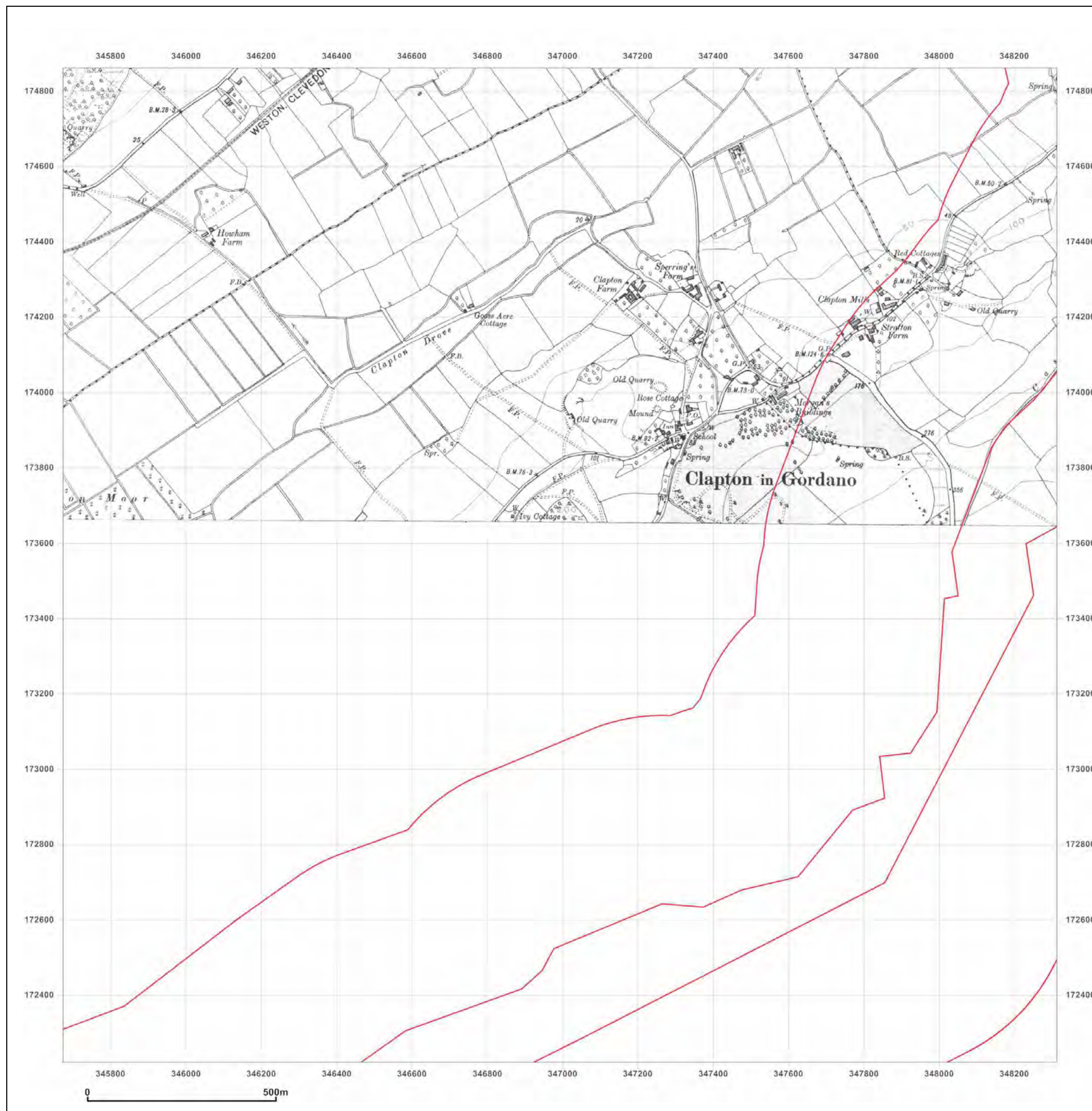


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**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C6  
**Grid Ref:** 346992, 173541

**Map Name:** County Series

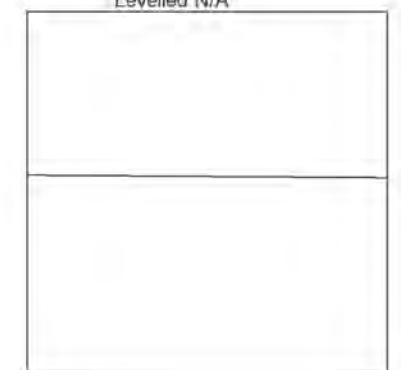
**Map date:** 1904

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1902  
 Edition 1904  
 Copyright N/A  
 Levelled N/A

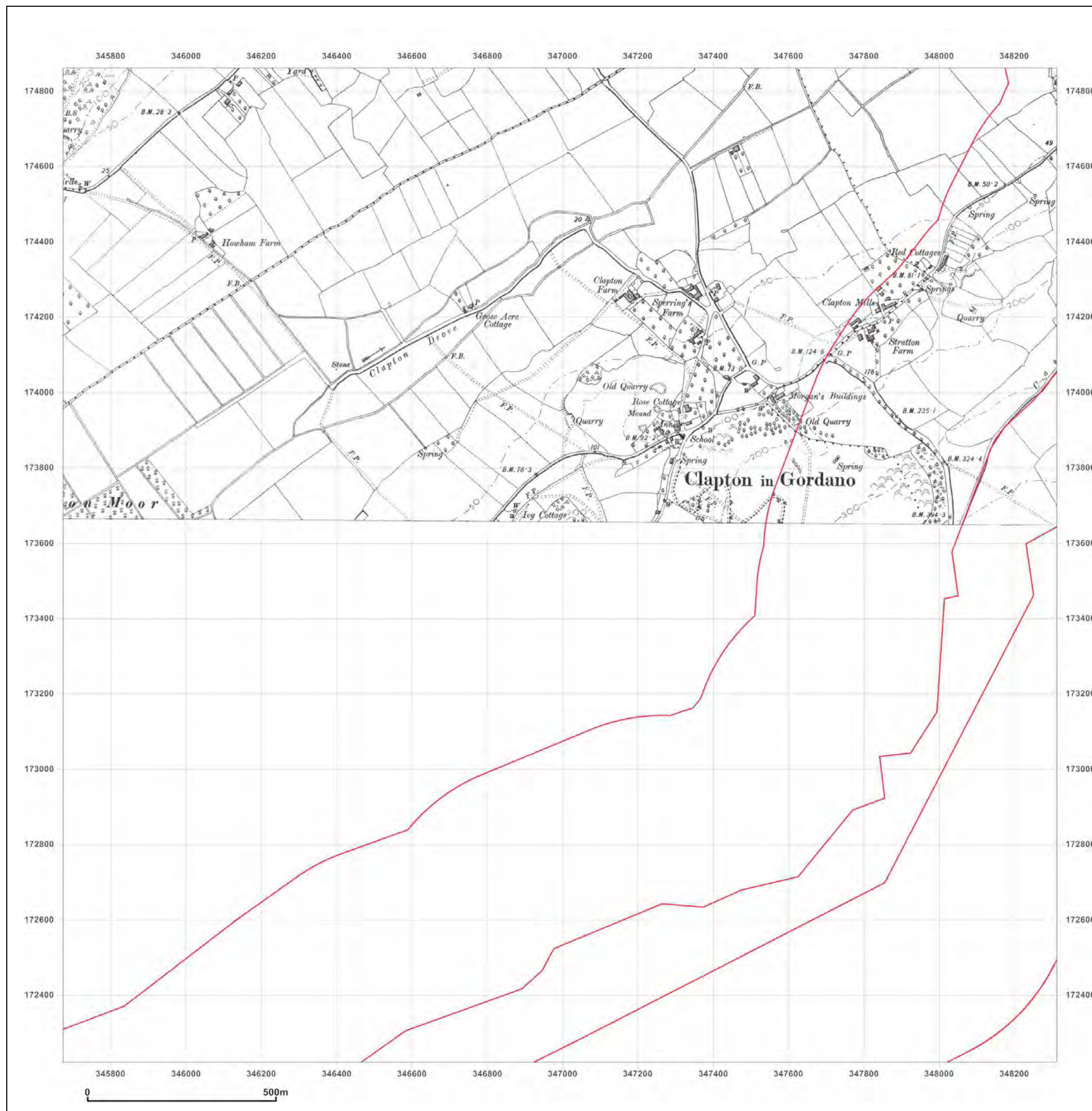


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C6  
**Grid Ref:** 346992, 173541

**Map Name:** County Series

**Map date:** 1901-1902

**Scale:** 1:10,560

**Printed at:** 1:10,560



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

Surveyed 1883  
 Revised 1902  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

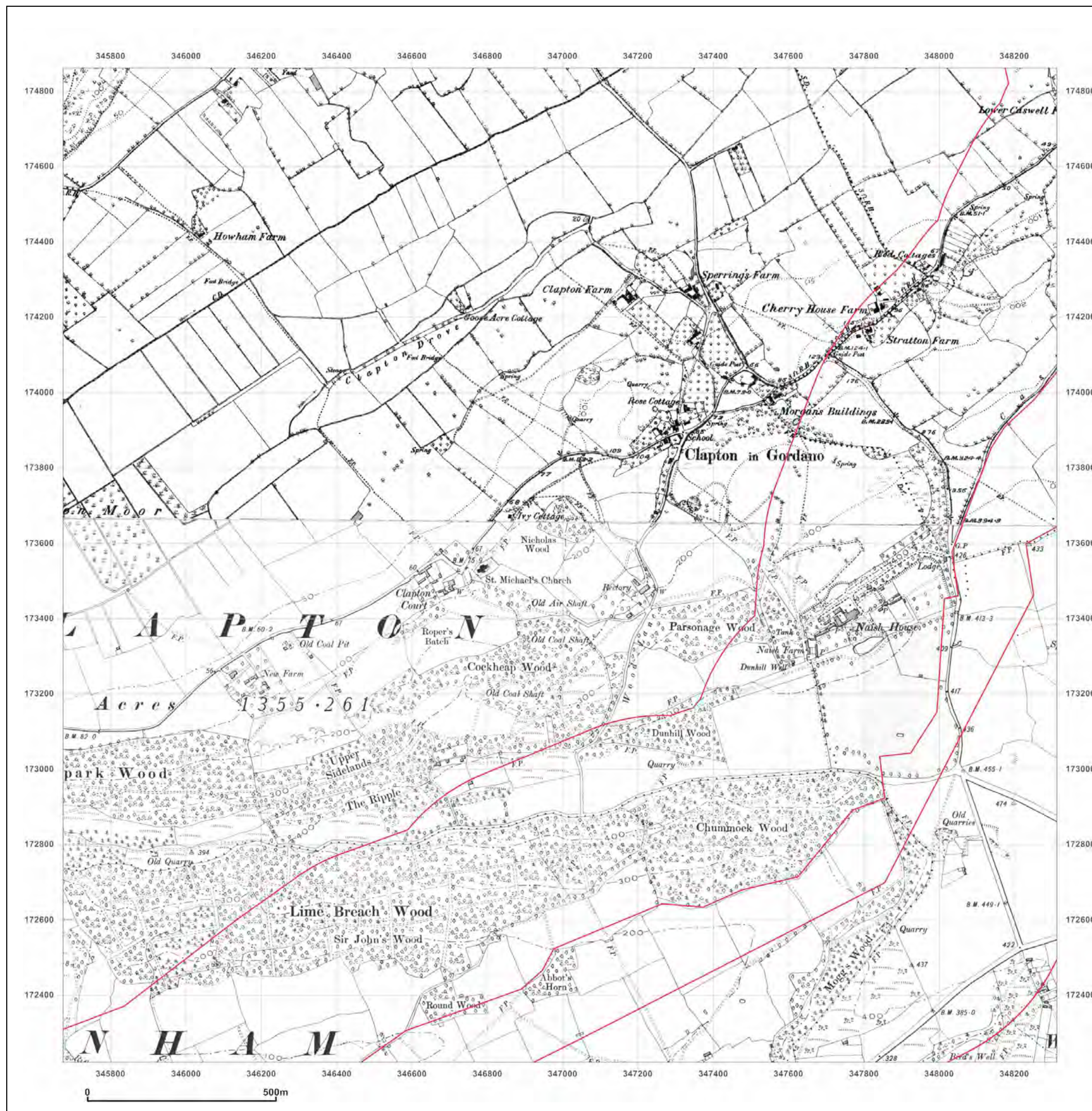


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_C6  
**Grid Ref:** 346992, 173541

**Map Name:** County Series

**Map date:** 1883-1884

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised 1883  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

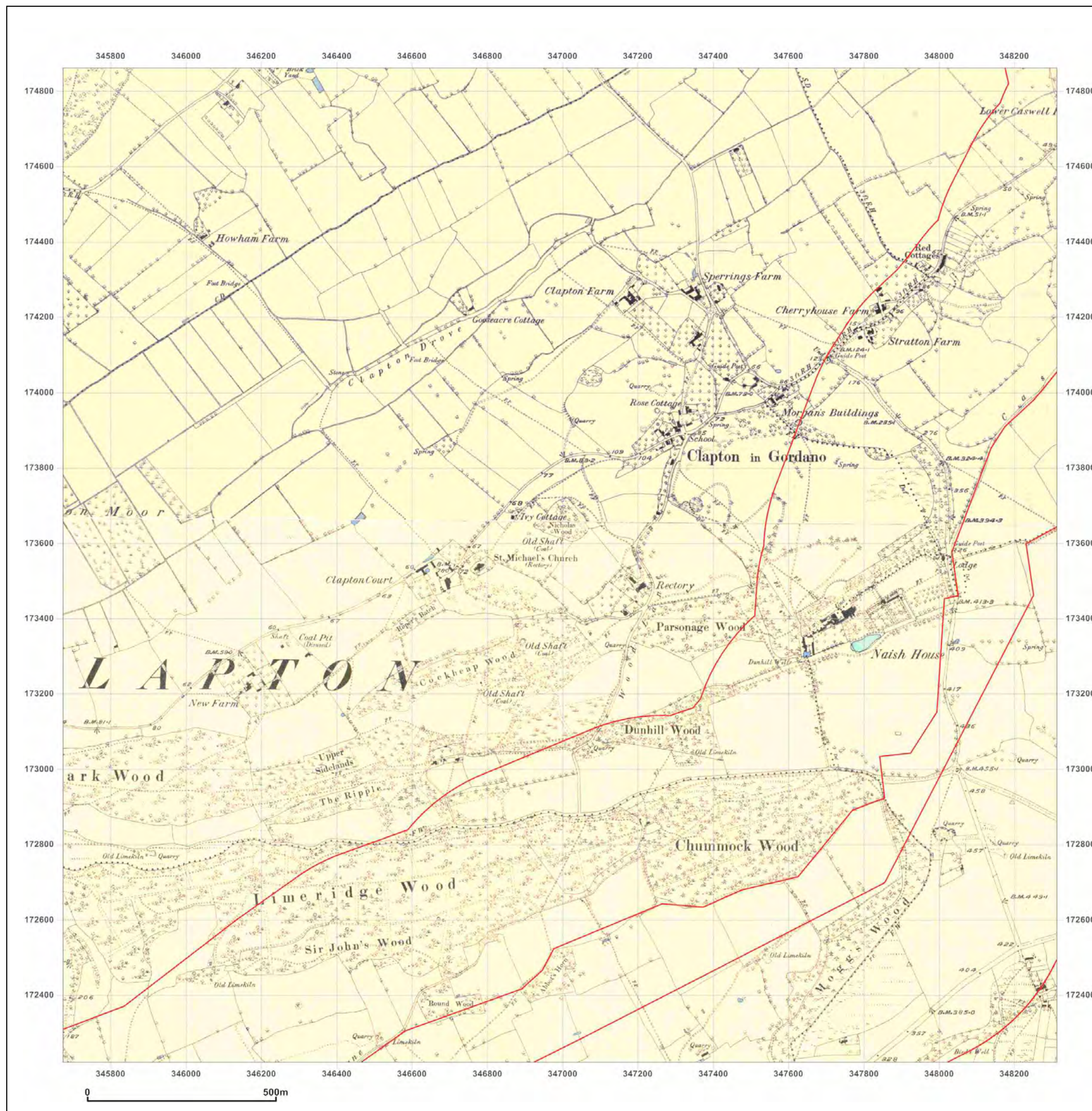


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_B7  
**Grid Ref:** 344598, 171185

**Map Name:** National Grid

**Map date:** 2012

**Scale:** 1:10,000

**Printed at:** 1:10,000

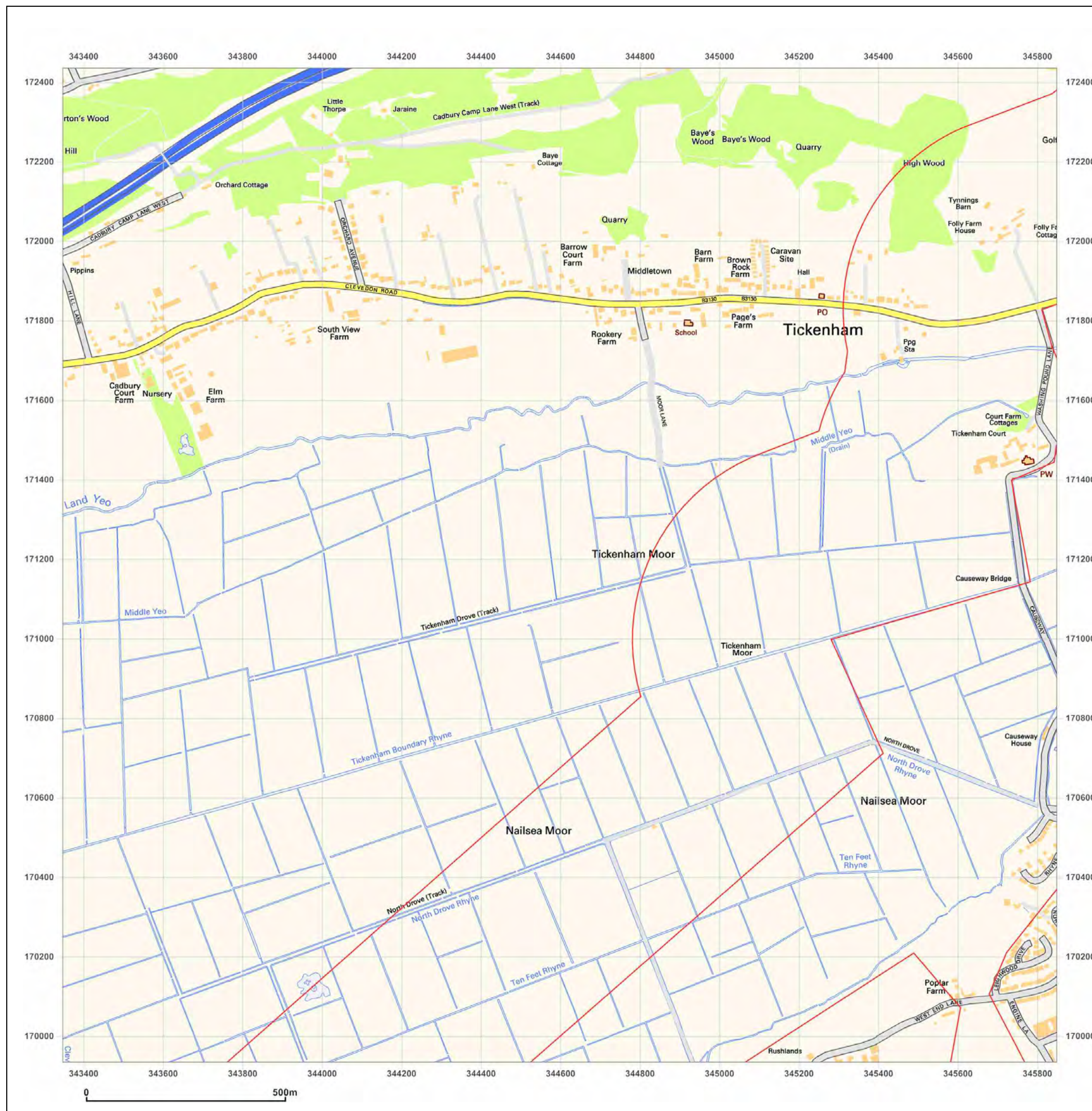


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**Site Details:**  
Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_B7  
**Grid Ref:** 344598, 171185

**Map Name:** 1:10,000 Raster

**Map date:** 2002

**Scale:** 1:10,000

**Printed at:** 1:10,000

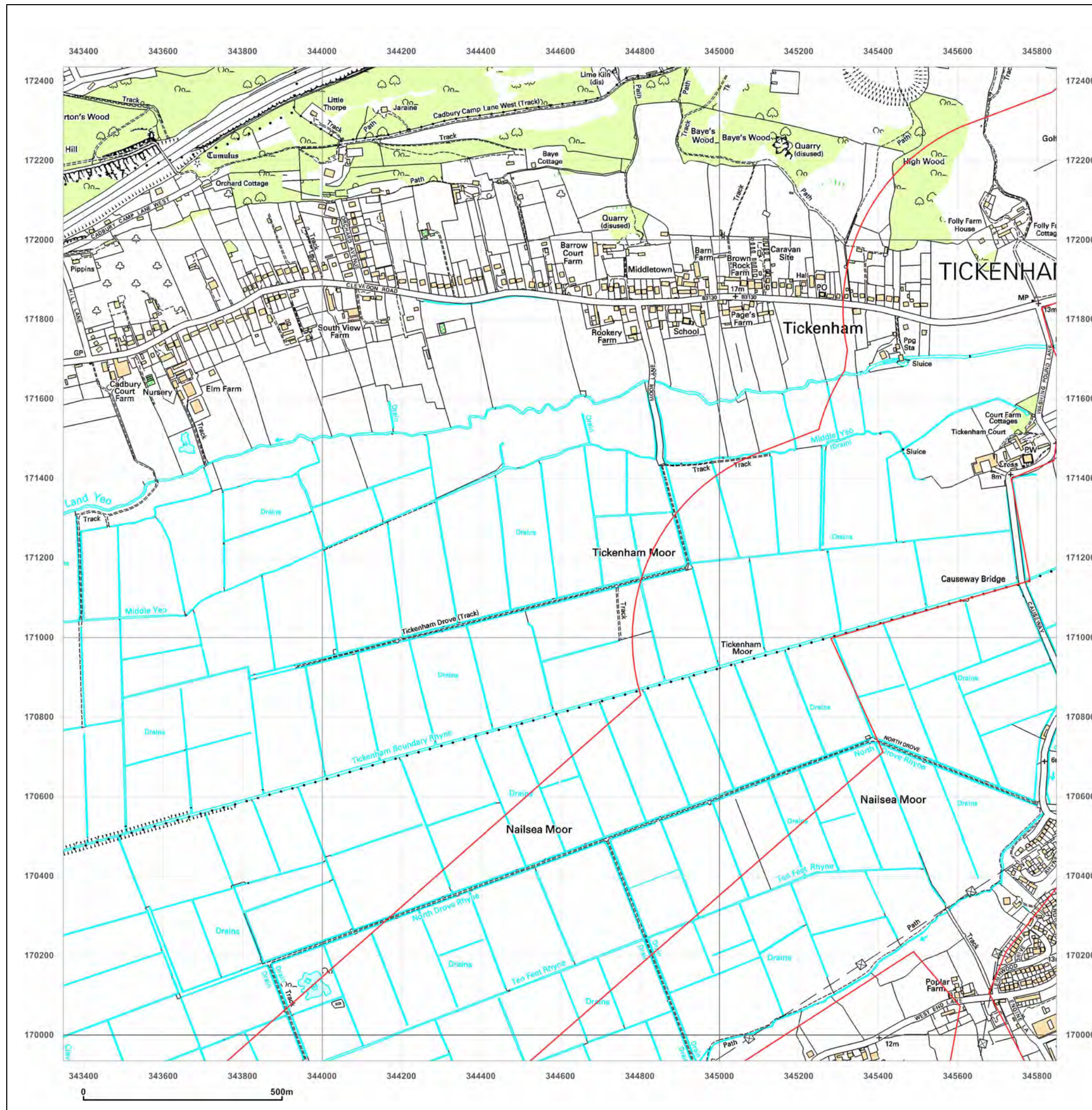


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**Production date:** 23 May 2013

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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_B7  
**Grid Ref:** 344598, 171185

**Map Name:** National Grid

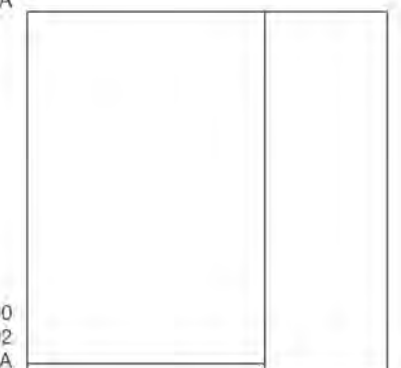
**Map date:** 1990-1992

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1988  
 Revised 1990  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



Surveyed 1990  
 Revised 1992  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

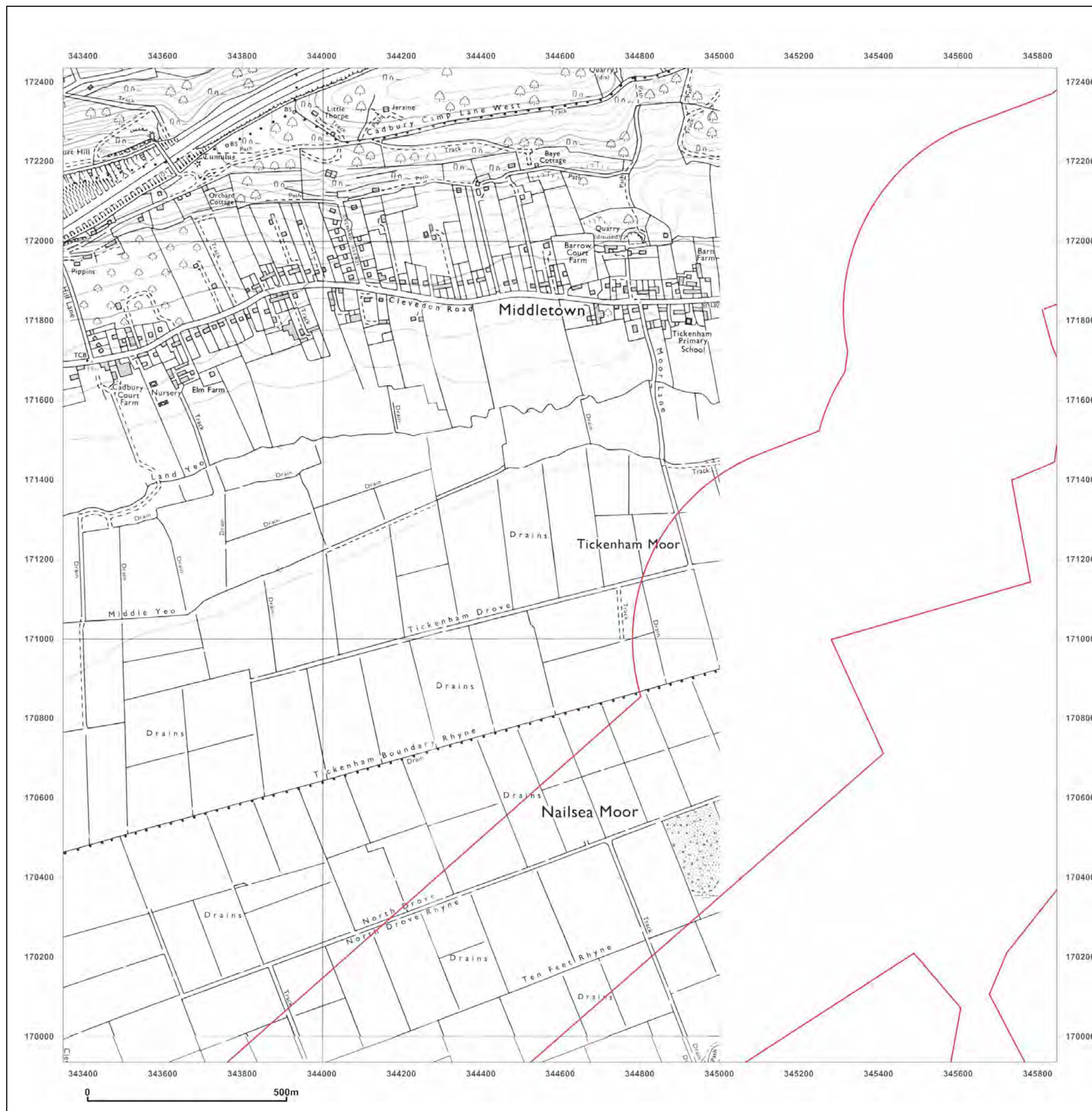


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_B7  
**Grid Ref:** 344598, 171185

**Map Name:** National Grid

**Map date:** 1978-1980

**Scale:** 1:10,000

**Printed at:** 1:10,000



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

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

Surveyed 1977  
 Revised 1980  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1978  
 Revised 1980  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

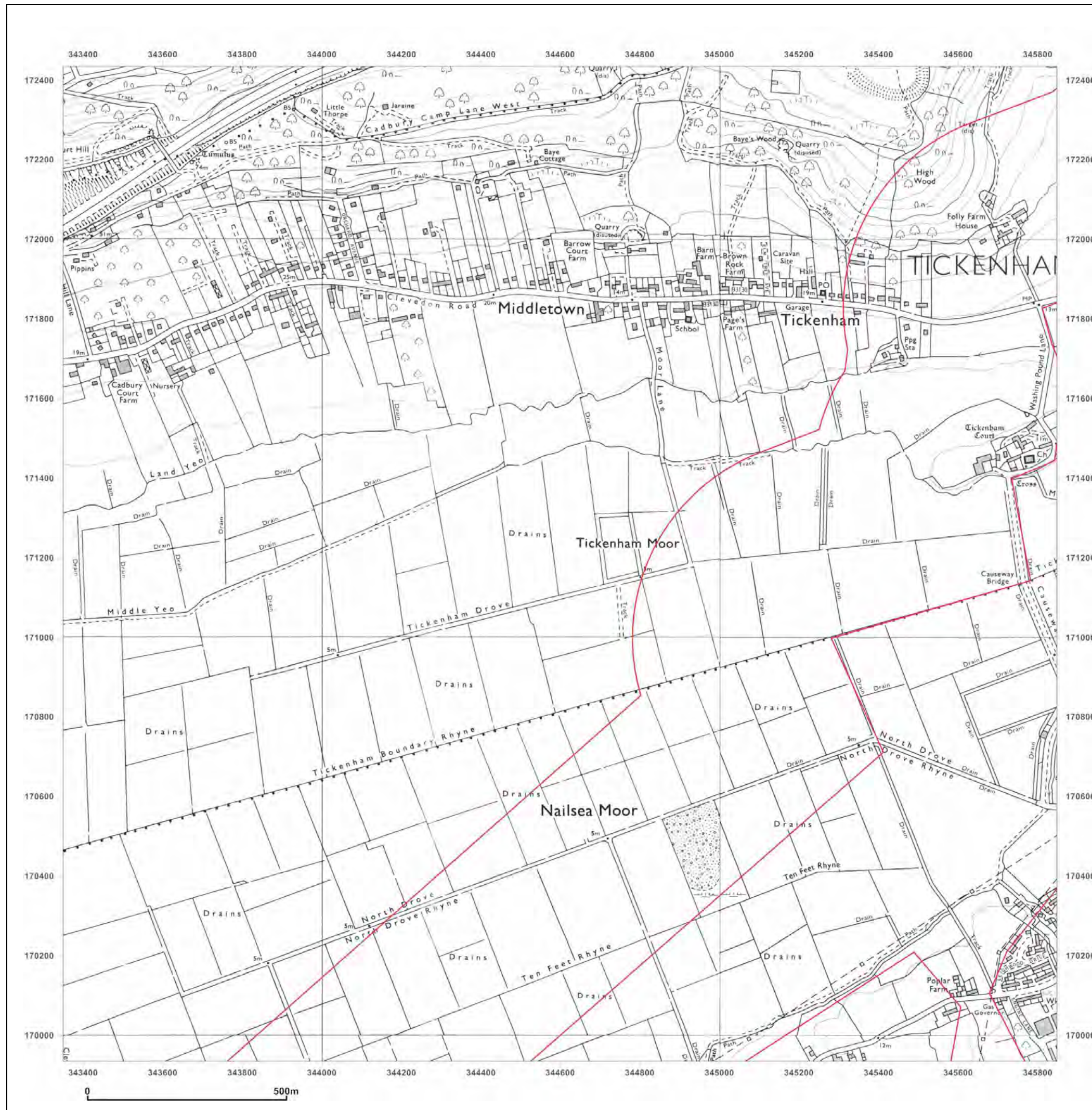


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#### Site Details:

Hinkley Project

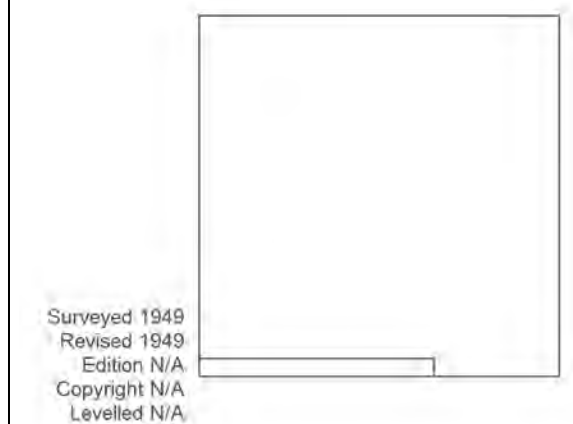
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_B7  
**Grid Ref:** 344598, 171185

**Map Name:** Provisional

**Map date:** 1975

**Scale:** 1:10,560

**Printed at:** 1:10,560

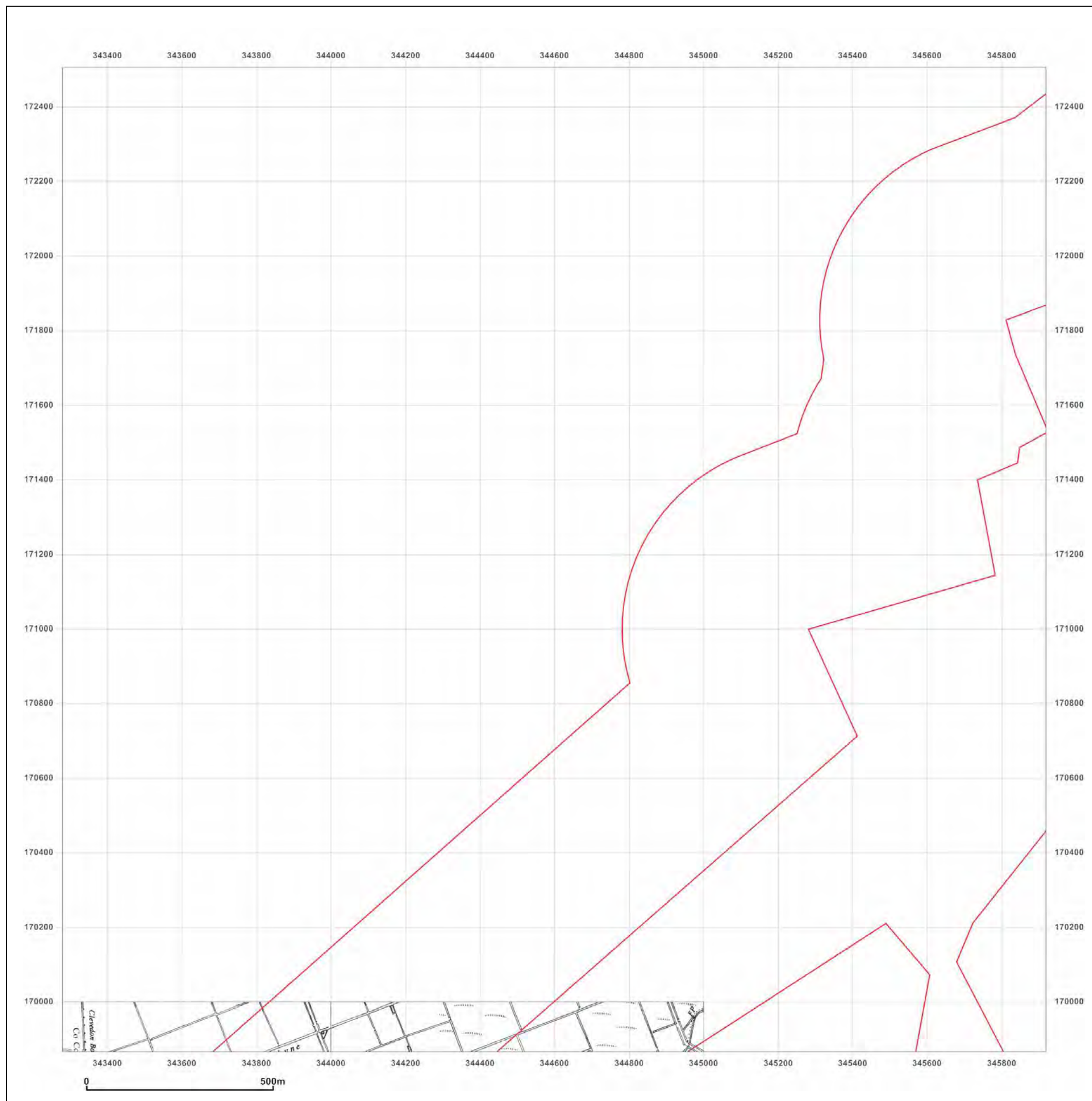


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_B7  
**Grid Ref:** 344598, 171185

**Map Name:** Provisional

**Map date:** 1960

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

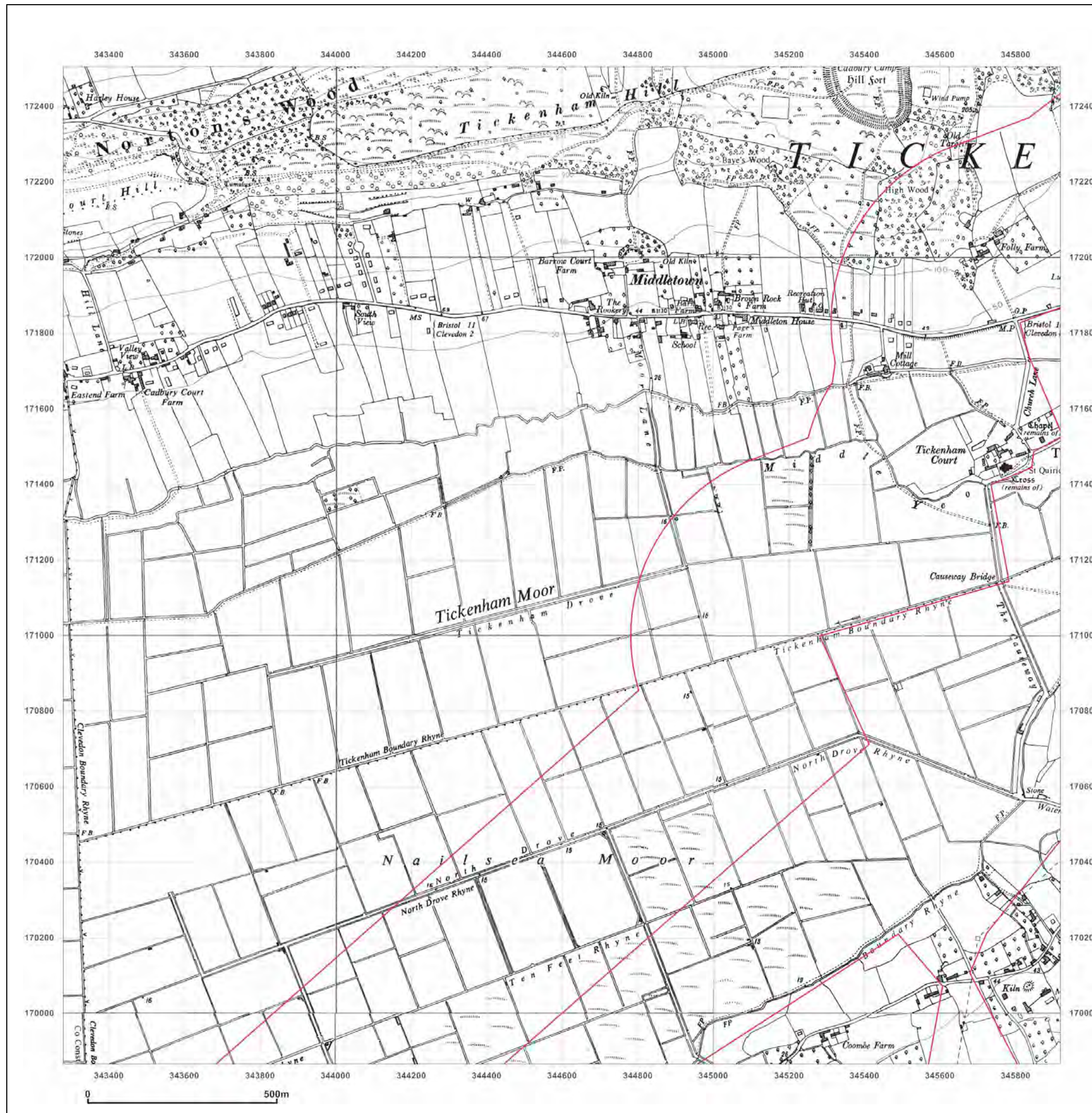


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_B7  
**Grid Ref:** 344598, 171185

**Map Name:** County Series

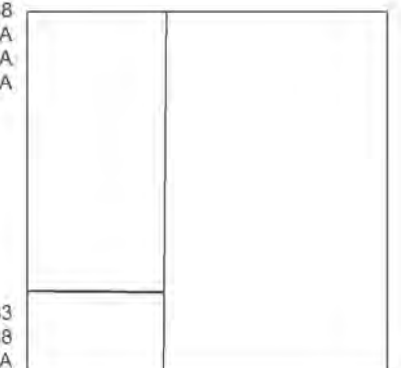
**Map date:** 1938

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



Surveyed 1883  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

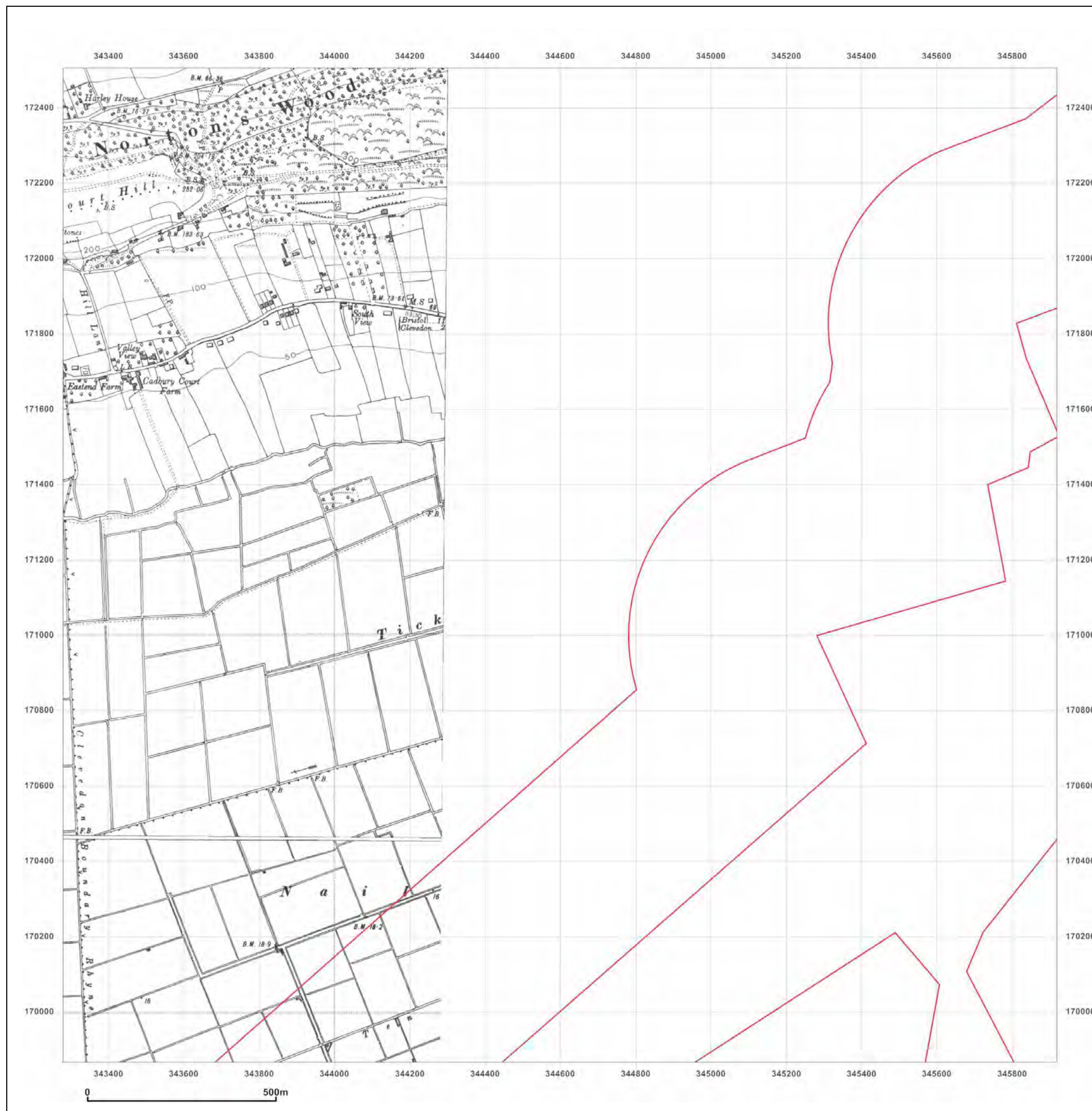


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.

**Report Ref:** HMD-278-816308\_7\_SS\_B7

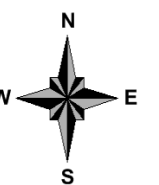
**Grid Ref:** 344598, 171185

**Map Name:** County Series

**Map date:** 1902

**Scale:** 1:10,560

**Printed at:** 1:10,560



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

Surveyed 1883  
Revised 1902  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1882  
Revised 1902  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1882  
Revised 1902  
Edition N/A  
Copyright N/A  
Levelled N/A

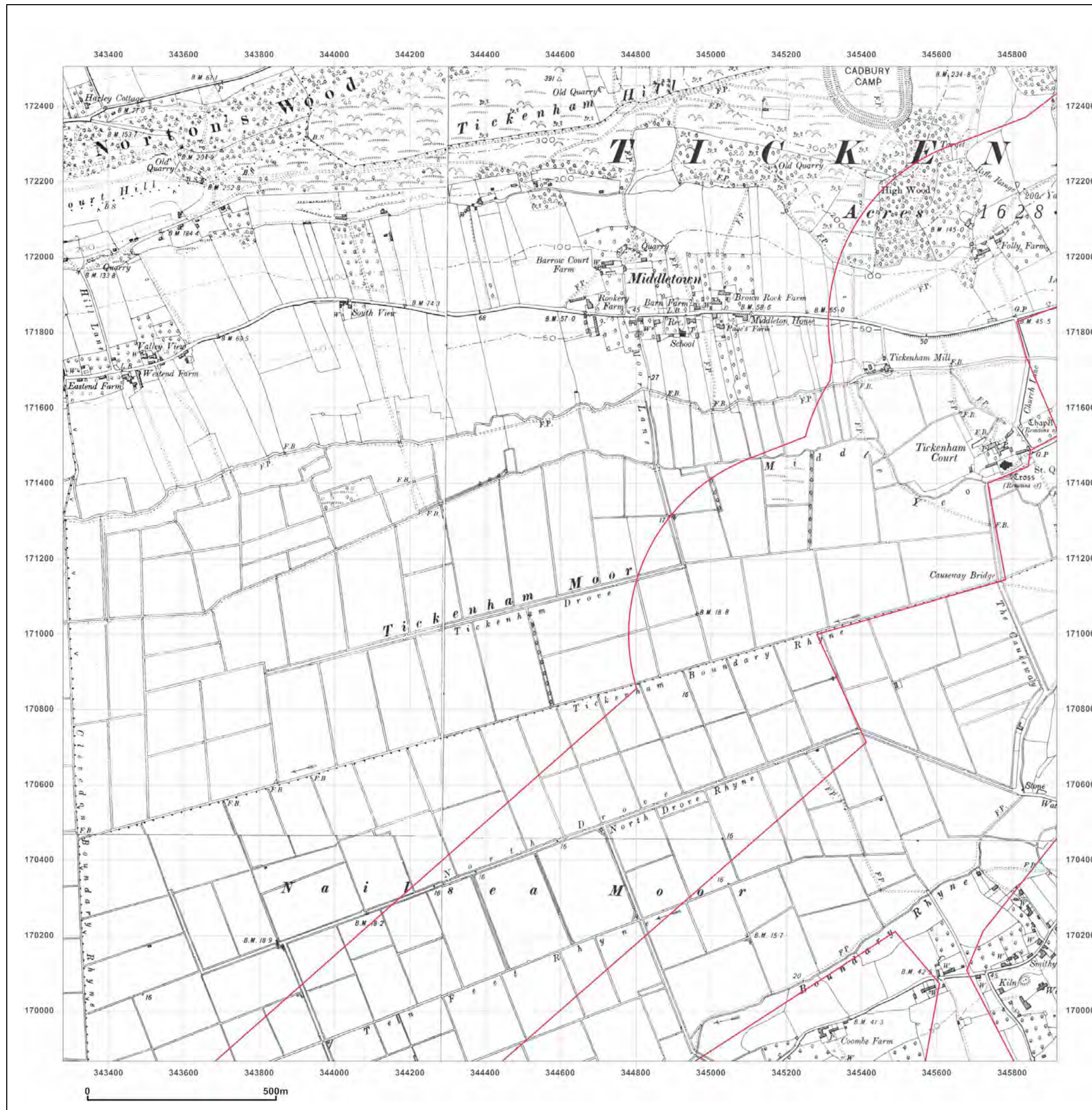


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_B7  
**Grid Ref:** 344598, 171185

**Map Name:** County Series

**Map date:** 1883-1884

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1883  
 Revised 1883  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised 1883  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised 1883  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1883  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

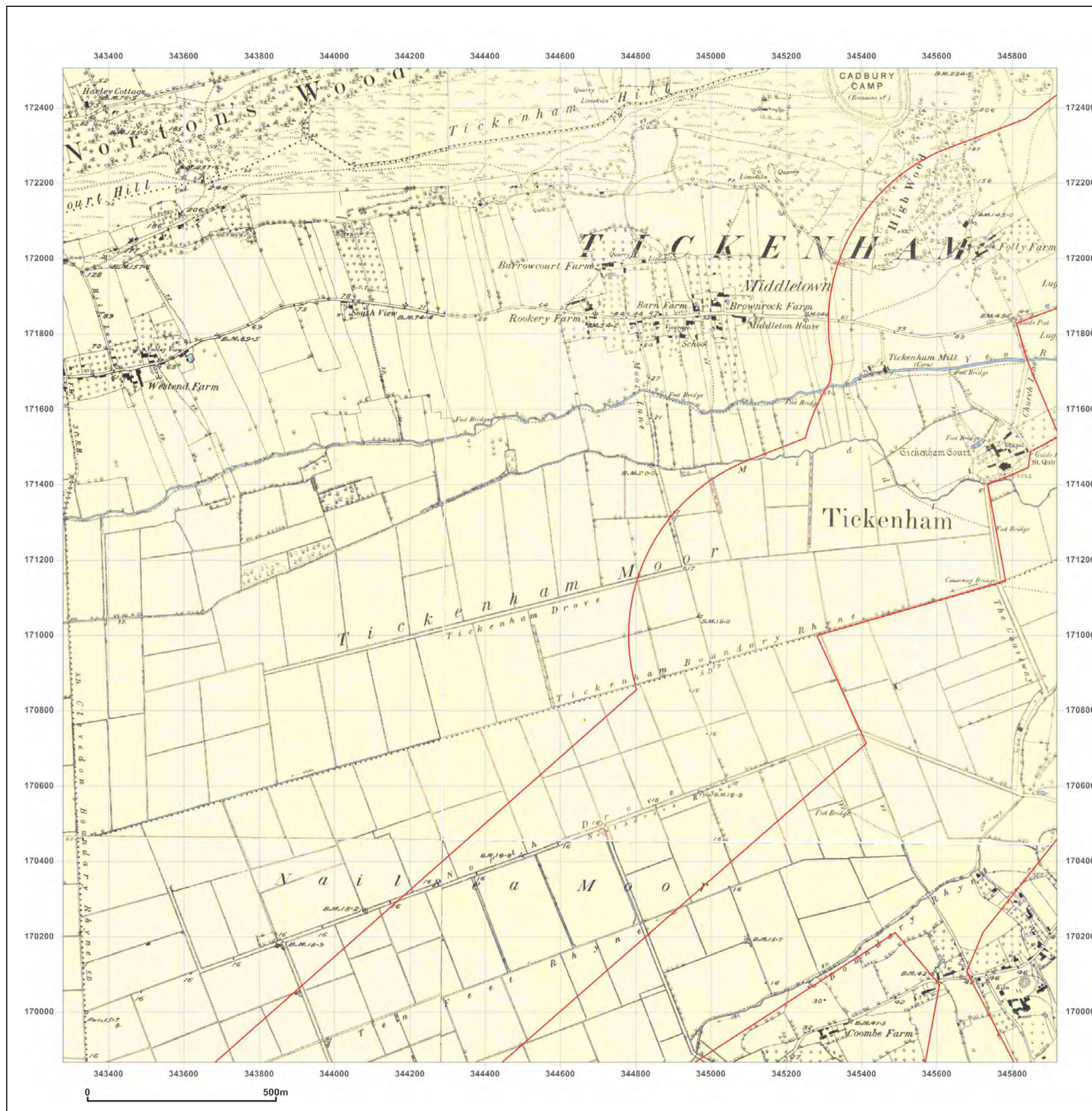


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_SS\_B7  
**Grid Ref:** 344598, 171185

**Map Name:** County Series

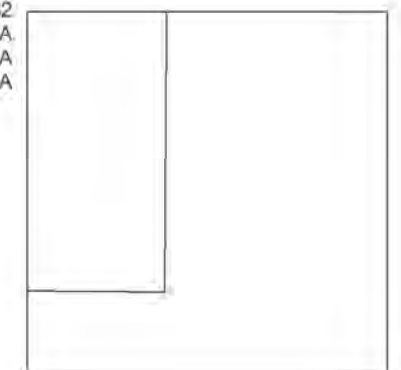
**Map date:** 1882

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1882  
 Revised 1882  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

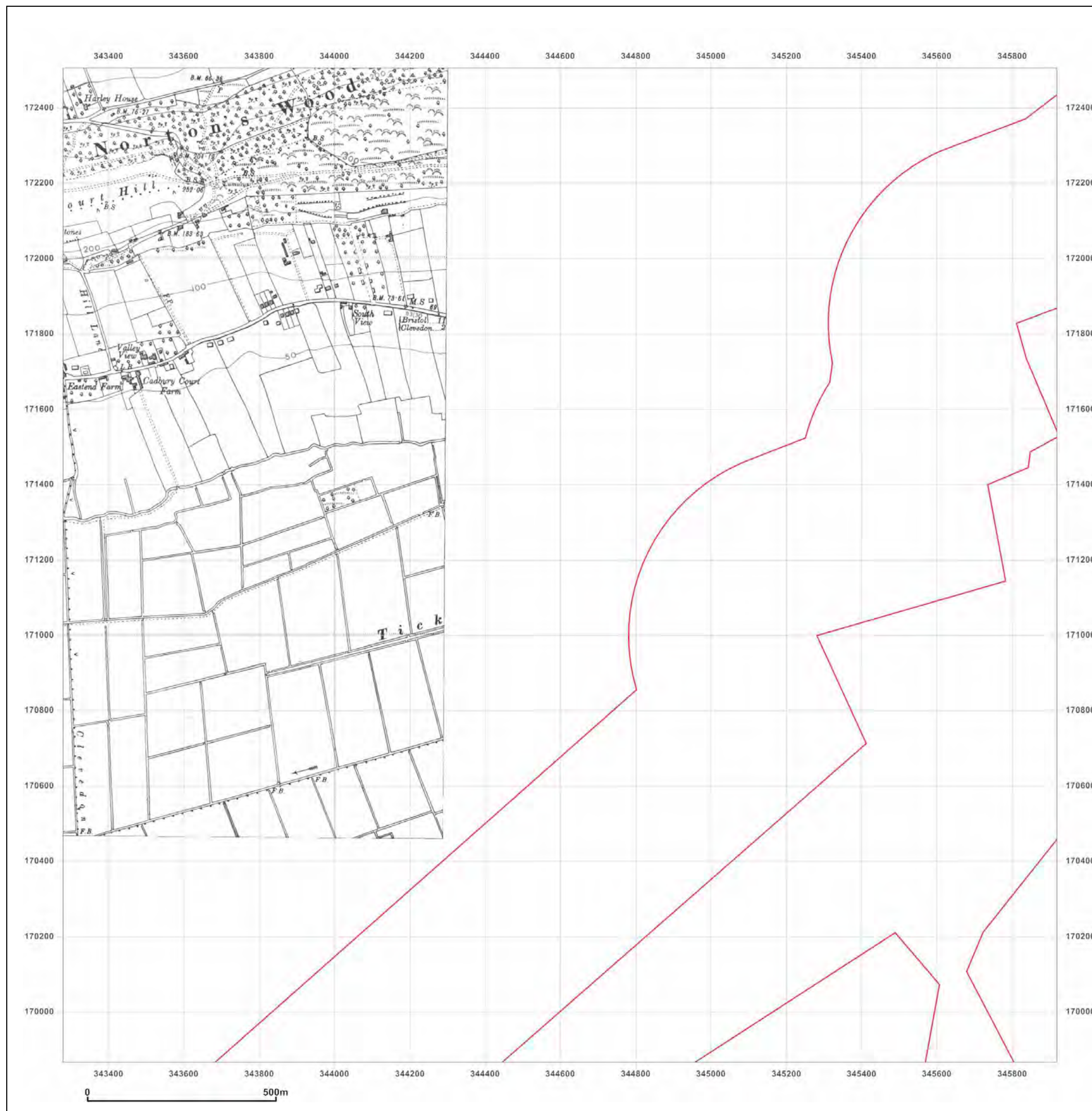


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**Site Details:**

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_Q11  
**Grid Ref:** 351633, 176444

**Map Name:** National Grid

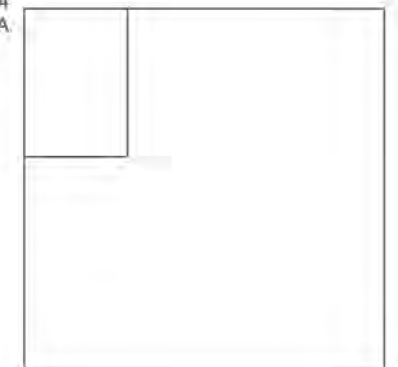
**Map date:** 1994

**Scale:** 1:1,250

**Printed at:** 1:2,500



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

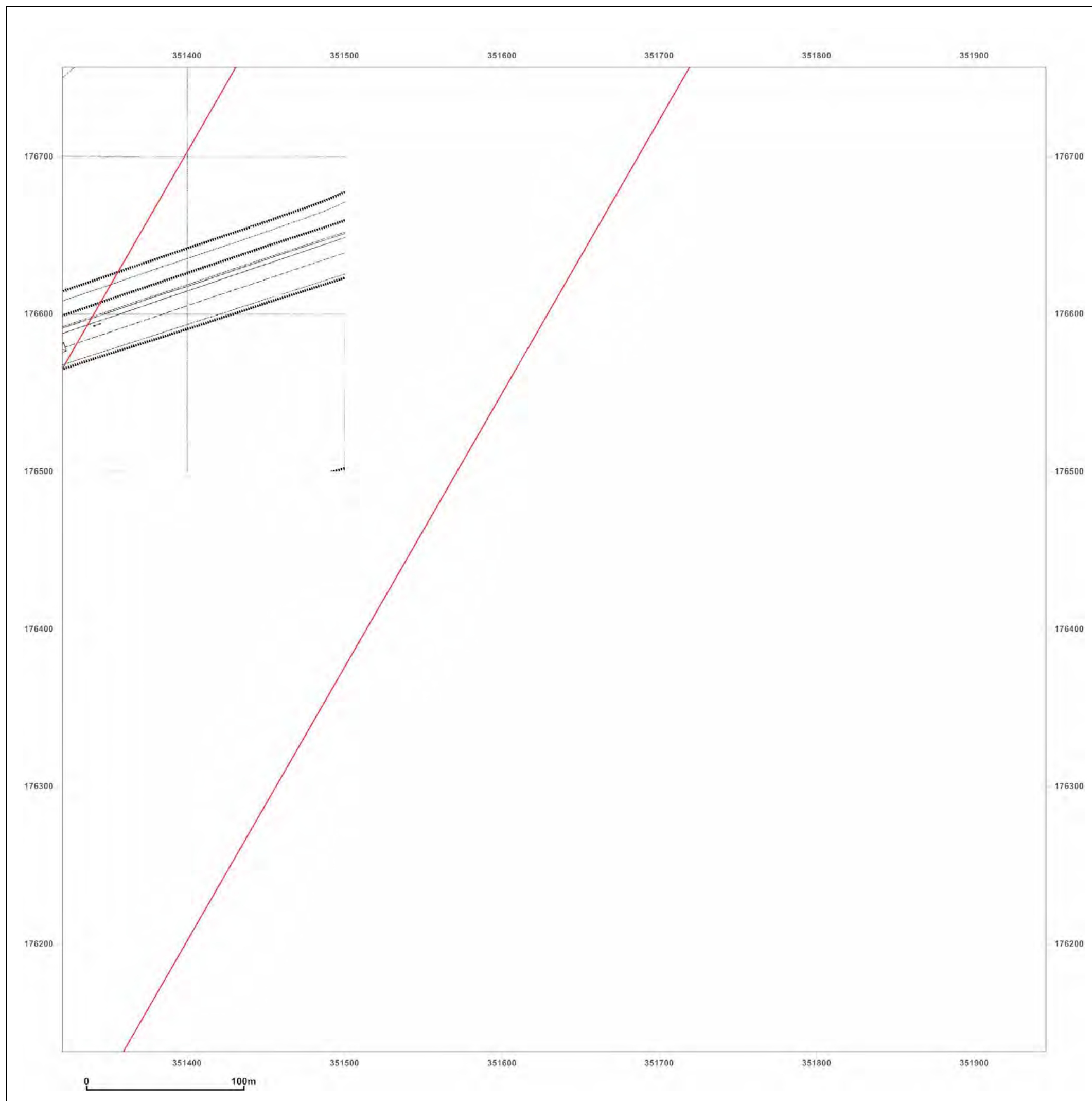


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**Site Details:**

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_Q11  
**Grid Ref:** 351633, 176444

**Map Name:** National Grid

**Map date:** 1992

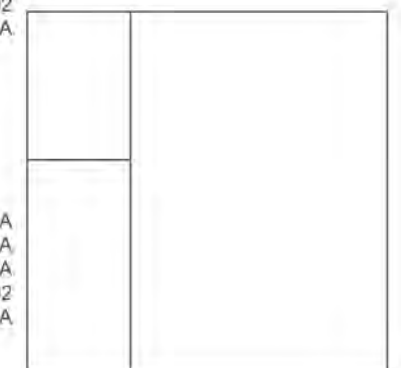
**Scale:** 1:1,250

**Printed at:** 1:2,500



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

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

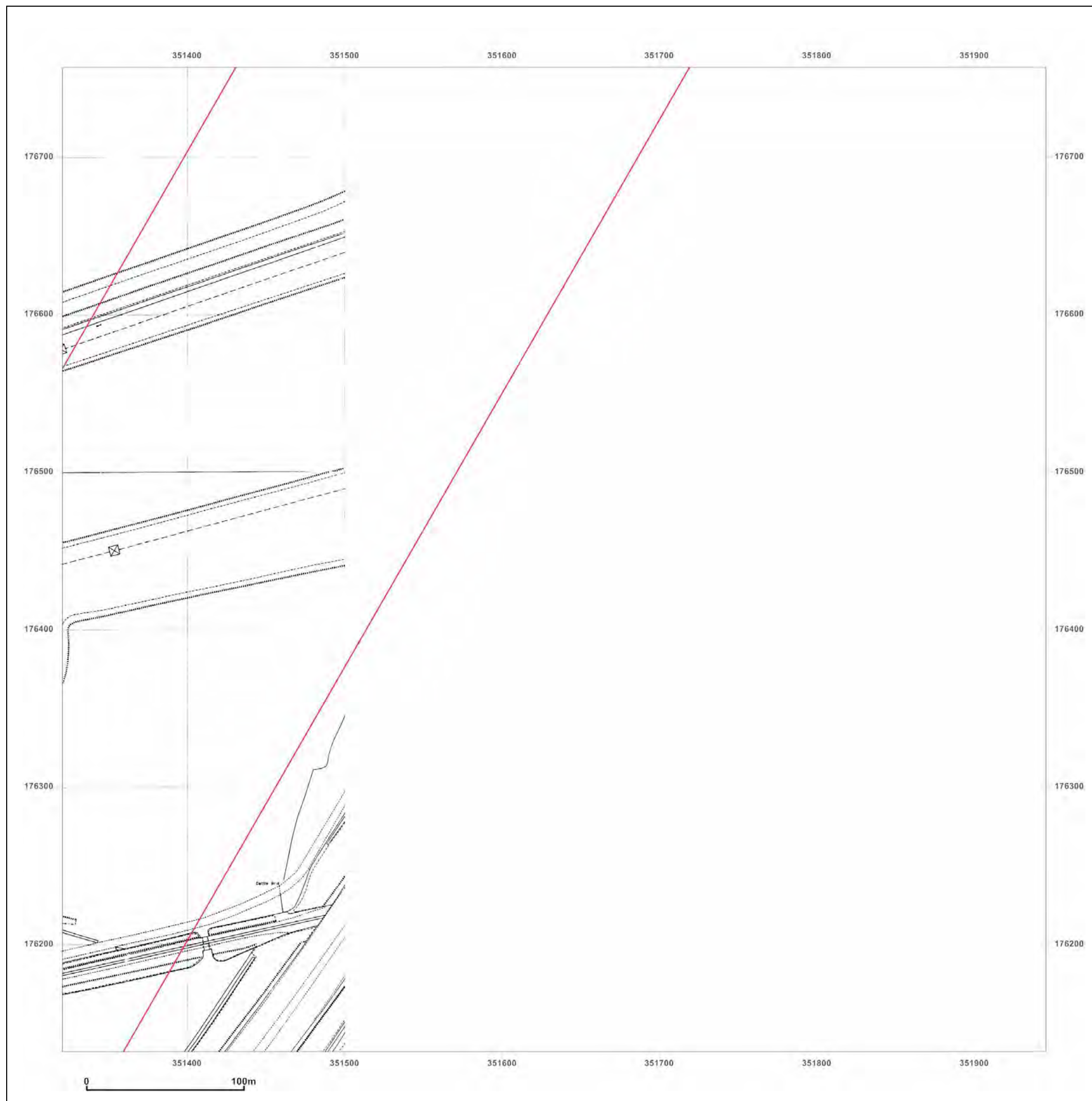


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**Site Details:**

Hinkley Project

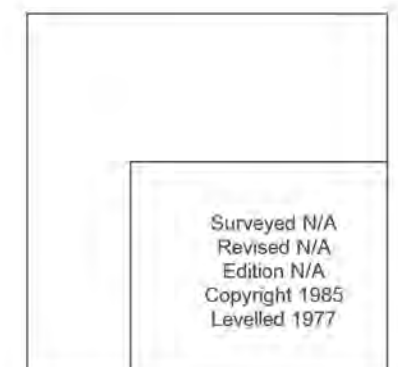
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**Report Ref:** HMD-278-816308\_7\_LS\_Q11  
**Grid Ref:** 351633, 176444

**Map Name:** National Grid

**Map date:** 1985

**Scale:** 1:1,250

**Printed at:** 1:2,500

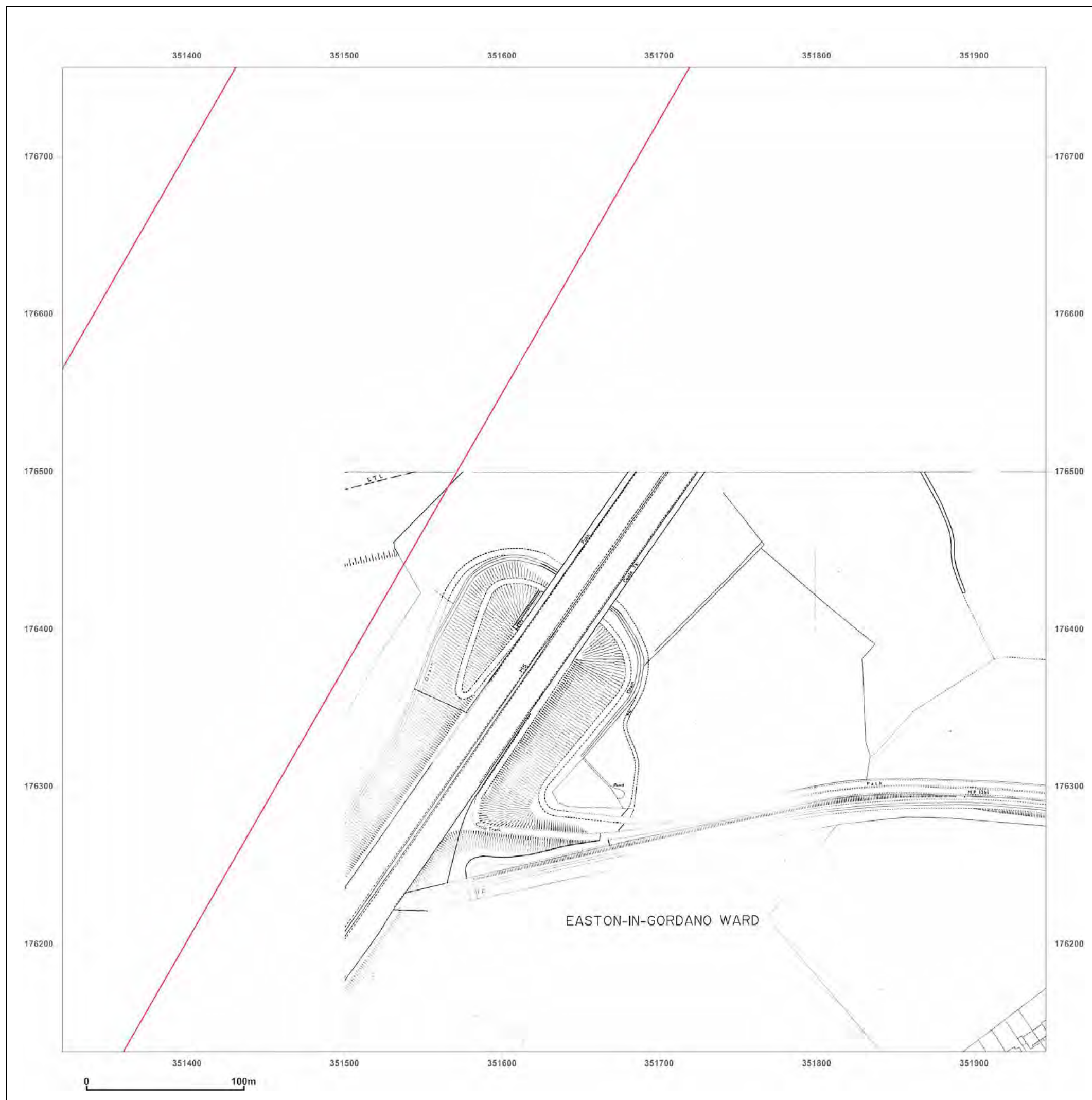


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_Q11  
**Grid Ref:** 351633, 176444

**Map Name:** National Grid

**Map date:** 1980

**Scale:** 1:2,500

**Printed at:** 1:2,500



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



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_Q11  
**Grid Ref:** 351633, 176444

**Map Name:** National Grid

**Map date:** 1978

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1972  
 Revised 1978  
 Edition N/A  
 Copyright 1980  
 Levelled 1977



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**Site Details:**

Hinkley Project

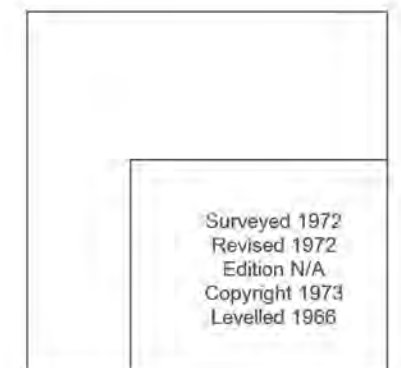
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_Q11  
**Grid Ref:** 351633, 176444

**Map Name:** National Grid

**Map date:** 1973

**Scale:** 1:1,250

**Printed at:** 1:2,500

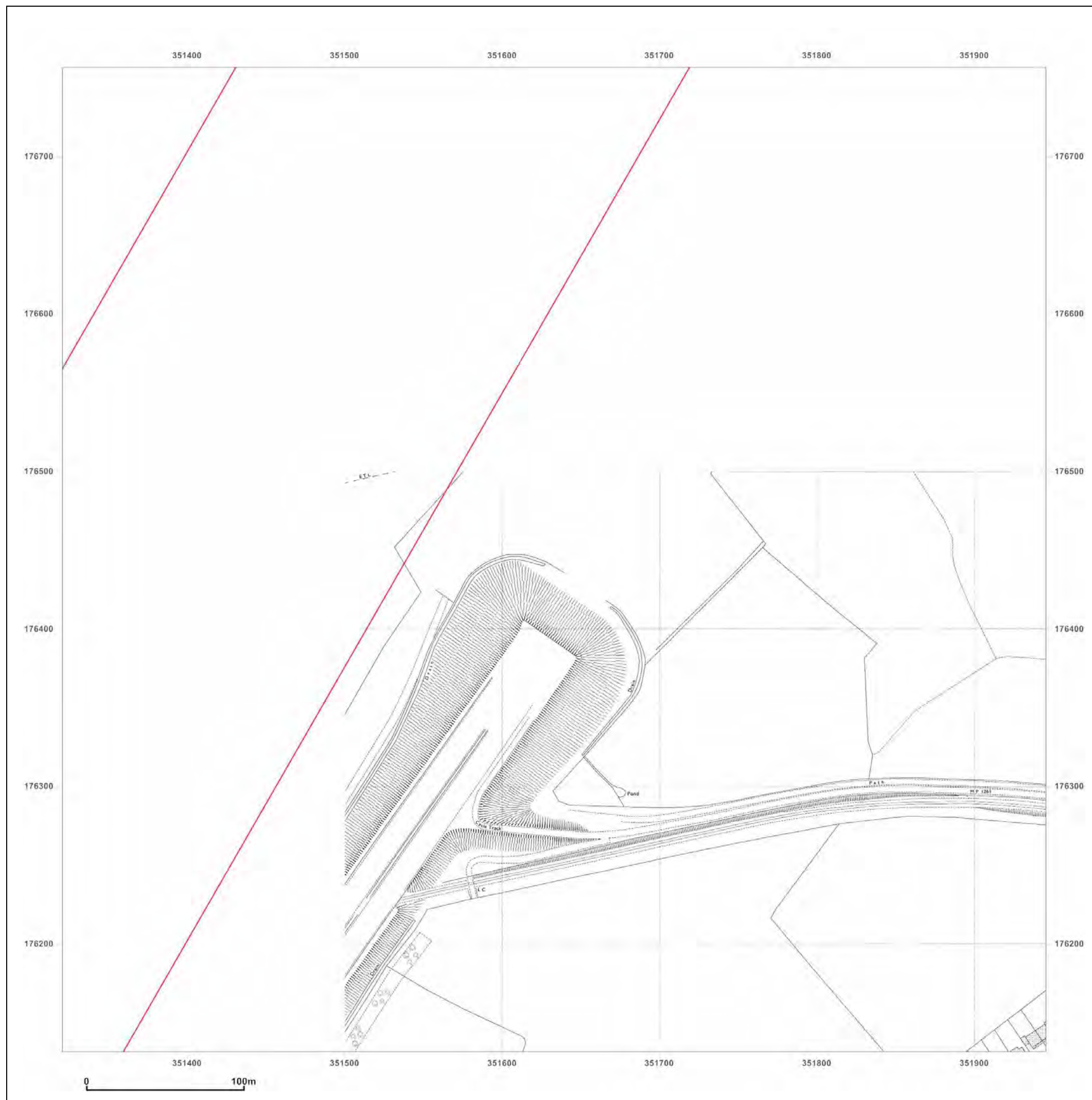


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_Q11  
**Grid Ref:** 351633, 176444

**Map Name:** County Series

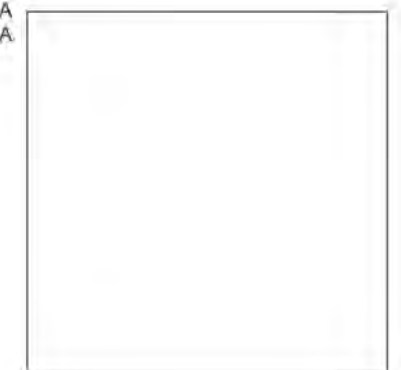
**Map date:** 1916

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

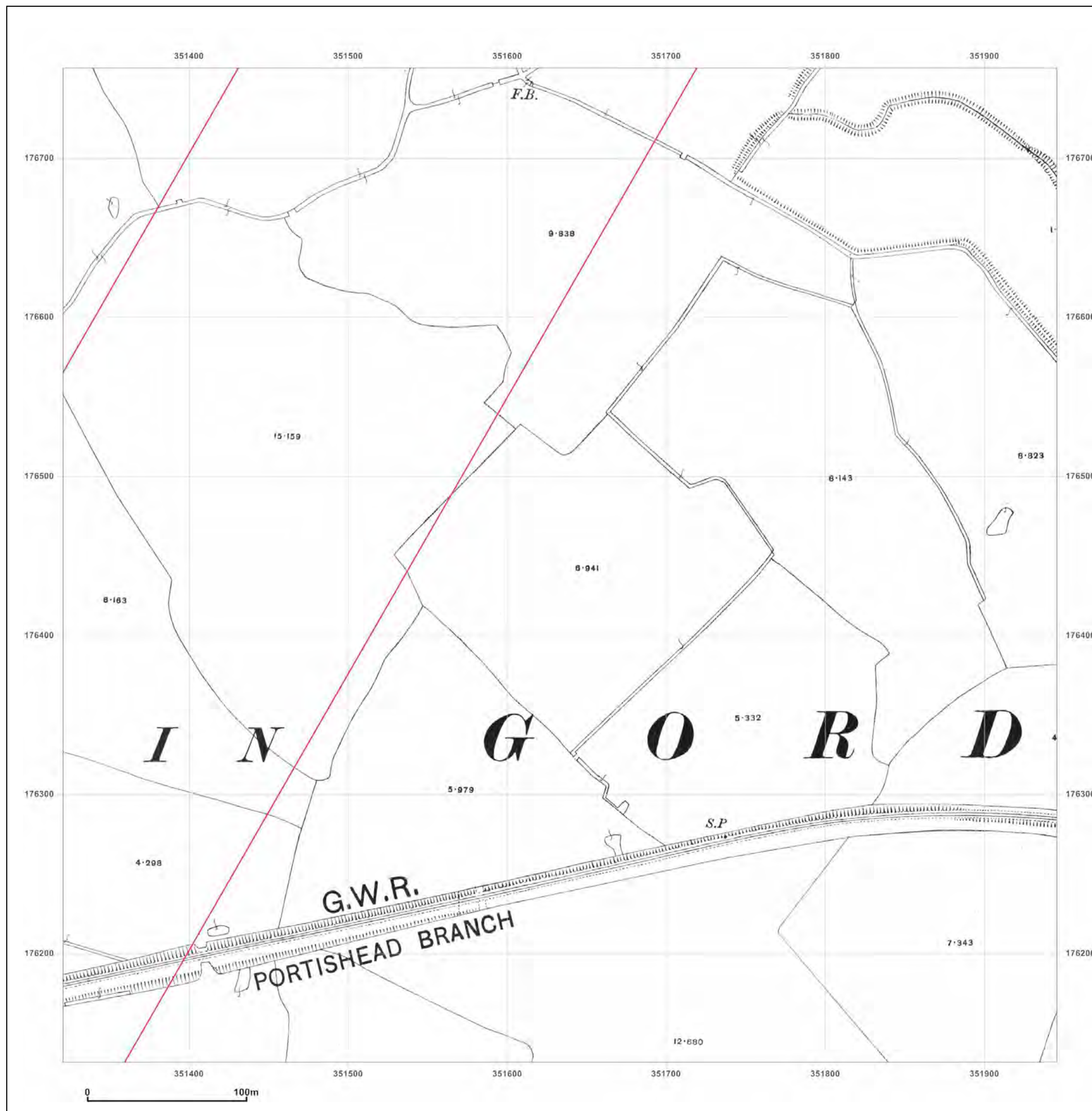


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**Site Details:**

Hinkley Project

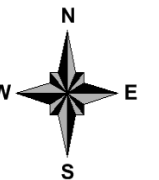
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_Q11  
**Grid Ref:** 351633, 176444

**Map Name:** County Series

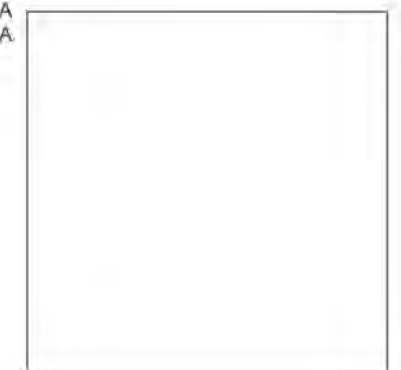
**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

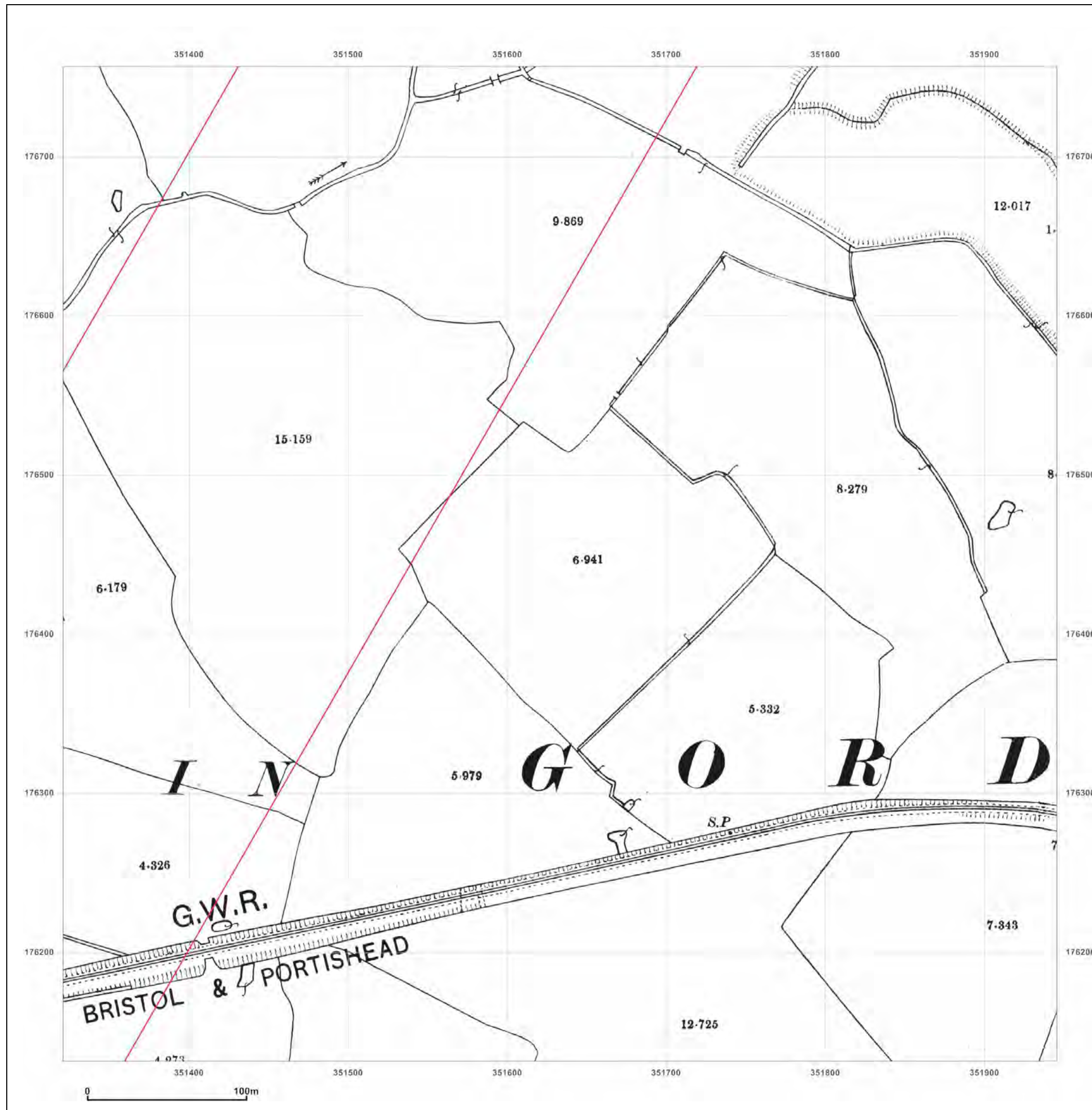


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_Q11  
**Grid Ref:** 351633, 176444

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

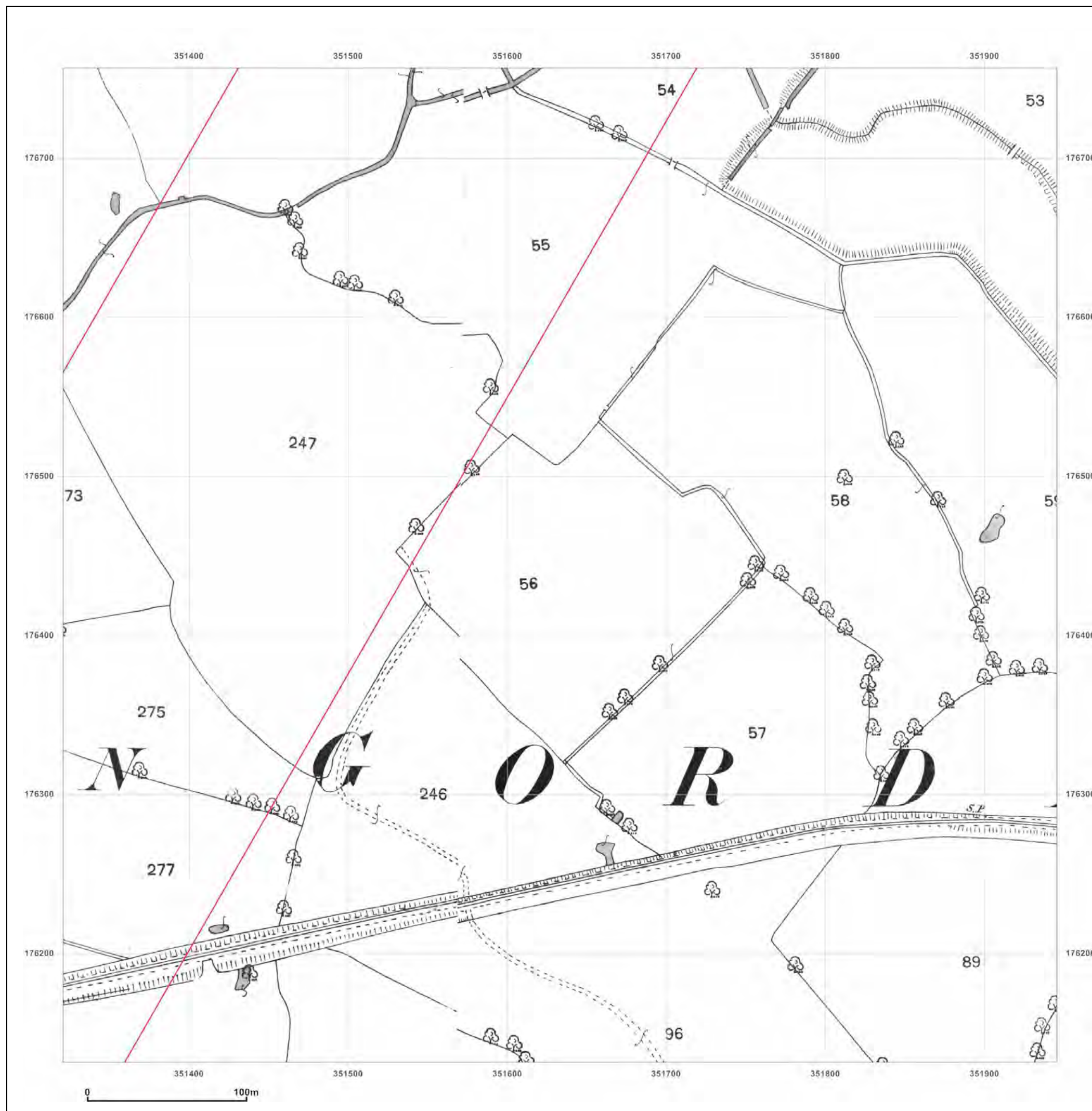


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**Site Details:**  
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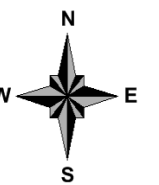
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**Report Ref:** HMD-278-816308\_7\_LS\_P12  
**Grid Ref:** 351334, 175844

**Map Name:** National Grid

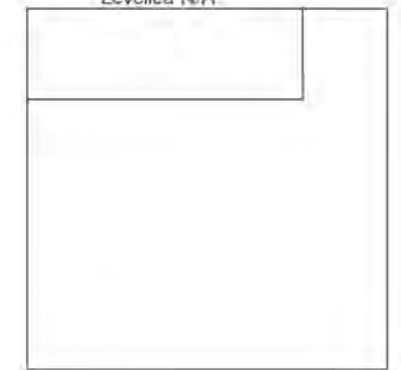
**Map date:** 1992

**Scale:** 1:1,250

**Printed at:** 1:2,500



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

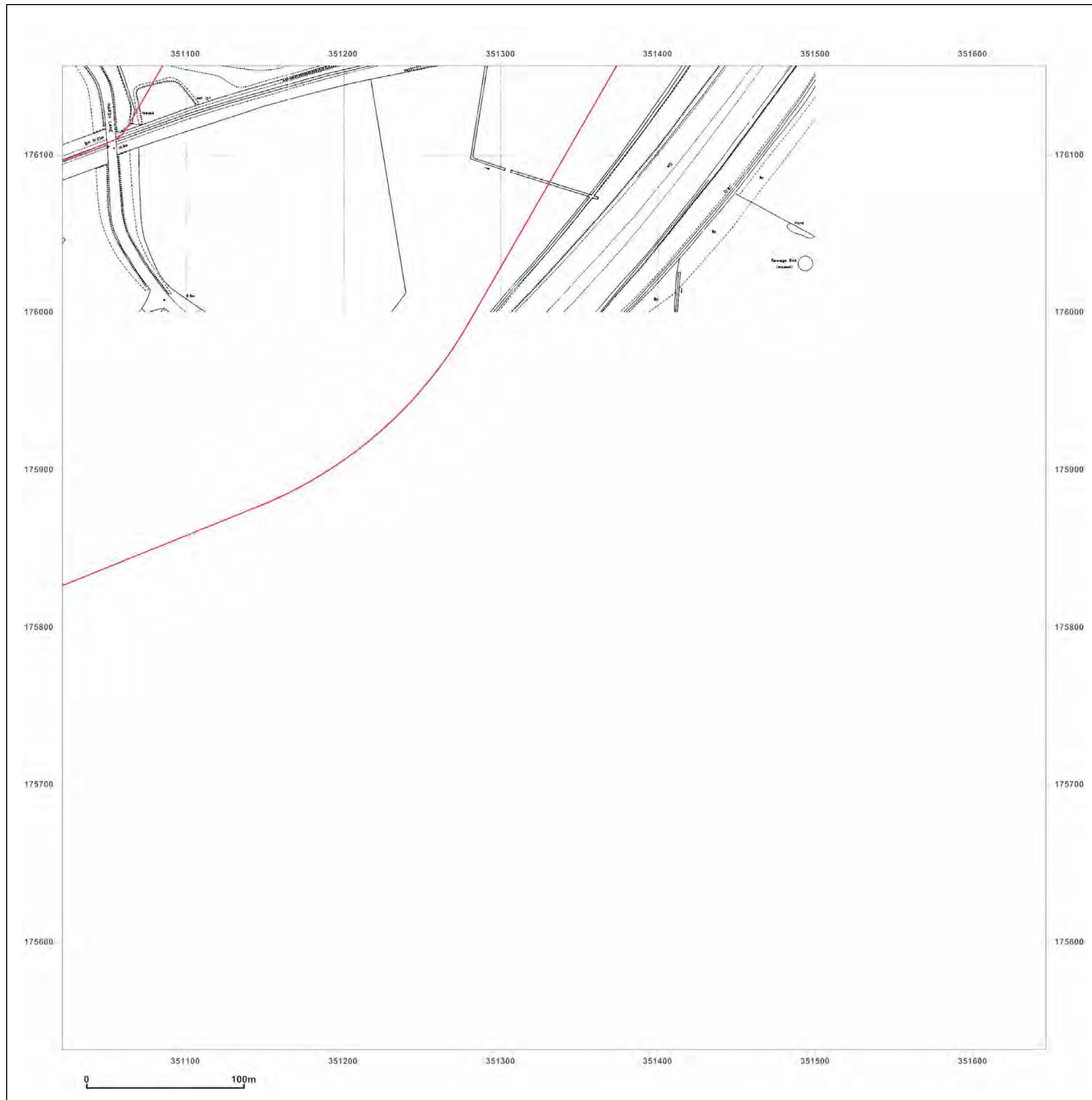


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_P12  
**Grid Ref:** 351334, 175844

**Map Name:** National Grid

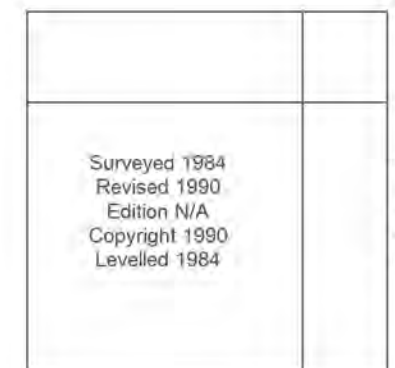
**Map date:** 1985-1990

**Scale:** 1:1,250

**Printed at:** 1:2,500



Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright 1985  
 Levelled 1977



Surveyed 1984  
 Revised 1990  
 Edition N/A  
 Copyright 1990  
 Levelled 1984

Surveyed 1984  
 Revised 1990  
 Edition N/A  
 Copyright 1990  
 Levelled 1984



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#### Site Details:

Hinkley Project

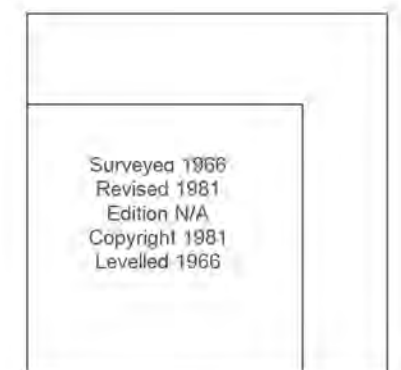
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_P12  
**Grid Ref:** 351334, 175844

**Map Name:** National Grid

**Map date:** 1981

**Scale:** 1:1,250

**Printed at:** 1:2,500



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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_P12  
**Grid Ref:** 351334, 175844

**Map Name:** National Grid

**Map date:** 1980

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

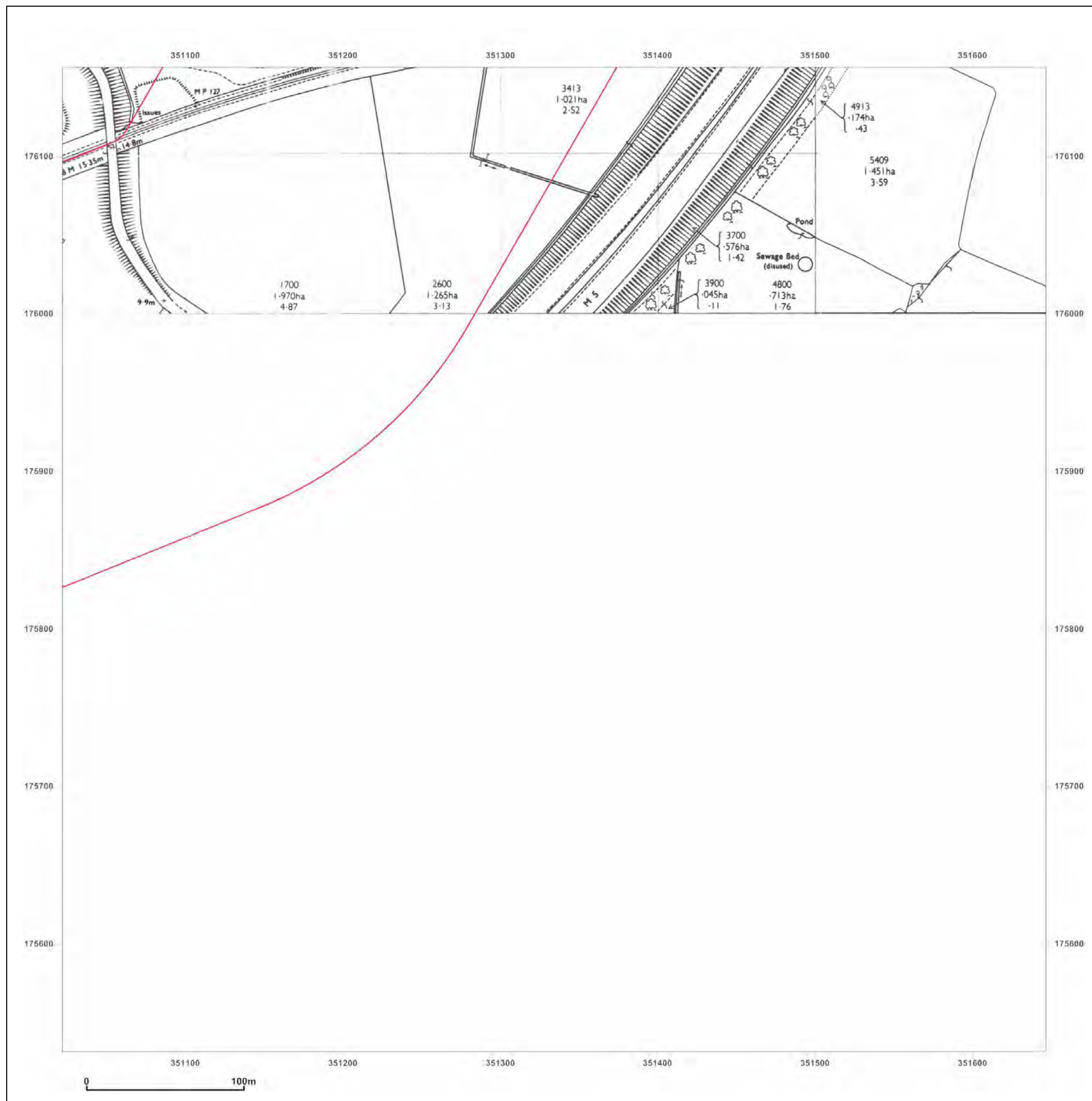


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_P12  
**Grid Ref:** 351334, 175844

**Map Name:** National Grid

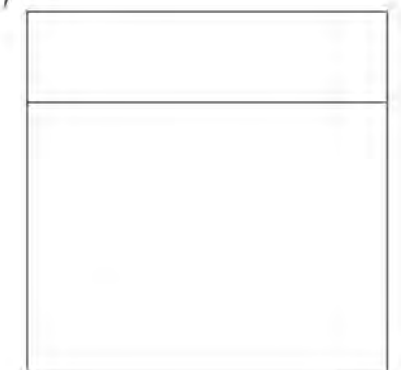
**Map date:** 1978

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1972  
 Revised 1978  
 Edition N/A  
 Copyright 1980  
 Levelled 1977

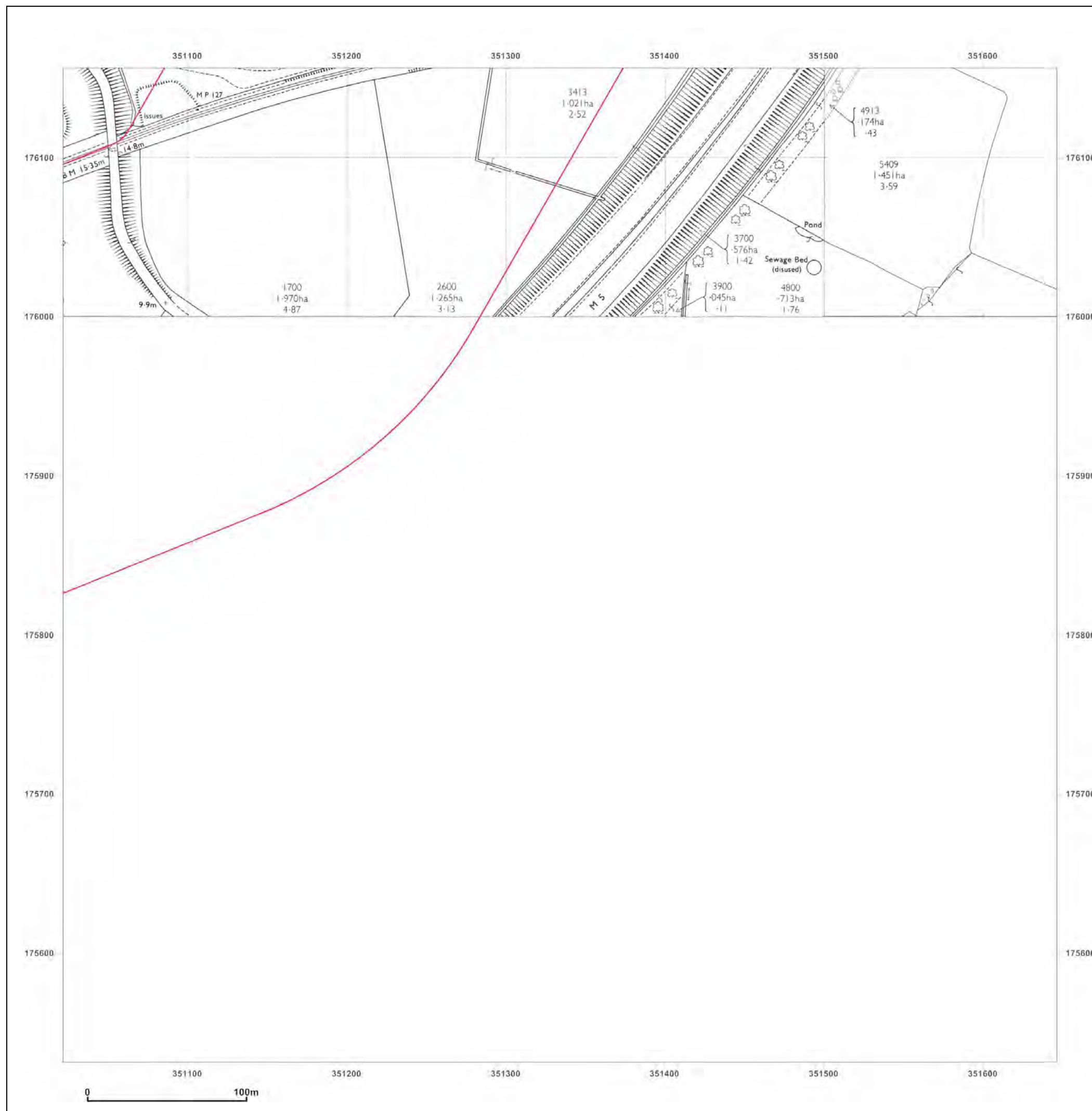


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**Site Details:**  
Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_P12  
**Grid Ref:** 351334, 175844

**Map Name:** National Grid

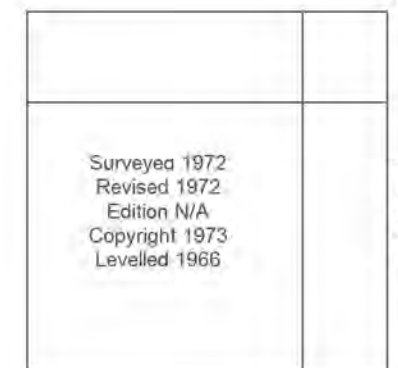
**Map date:** 1973

**Scale:** 1:1,250

**Printed at:** 1:2,500



Surveyed 1972  
Revised 1972  
Edition N/A  
Copyright 1973  
Levelled 1966



Surveyed 1972  
Revised 1972  
Edition N/A  
Copyright 1973  
Levelled 1966

Surveyed 1972  
Revised 1972  
Edition N/A  
Copyright 1973  
Levelled 1966



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_P12  
**Grid Ref:** 351334, 175844

**Map Name:** County Series

**Map date:** 1915-1916

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

Surveyed 1915  
 Revised 1915  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

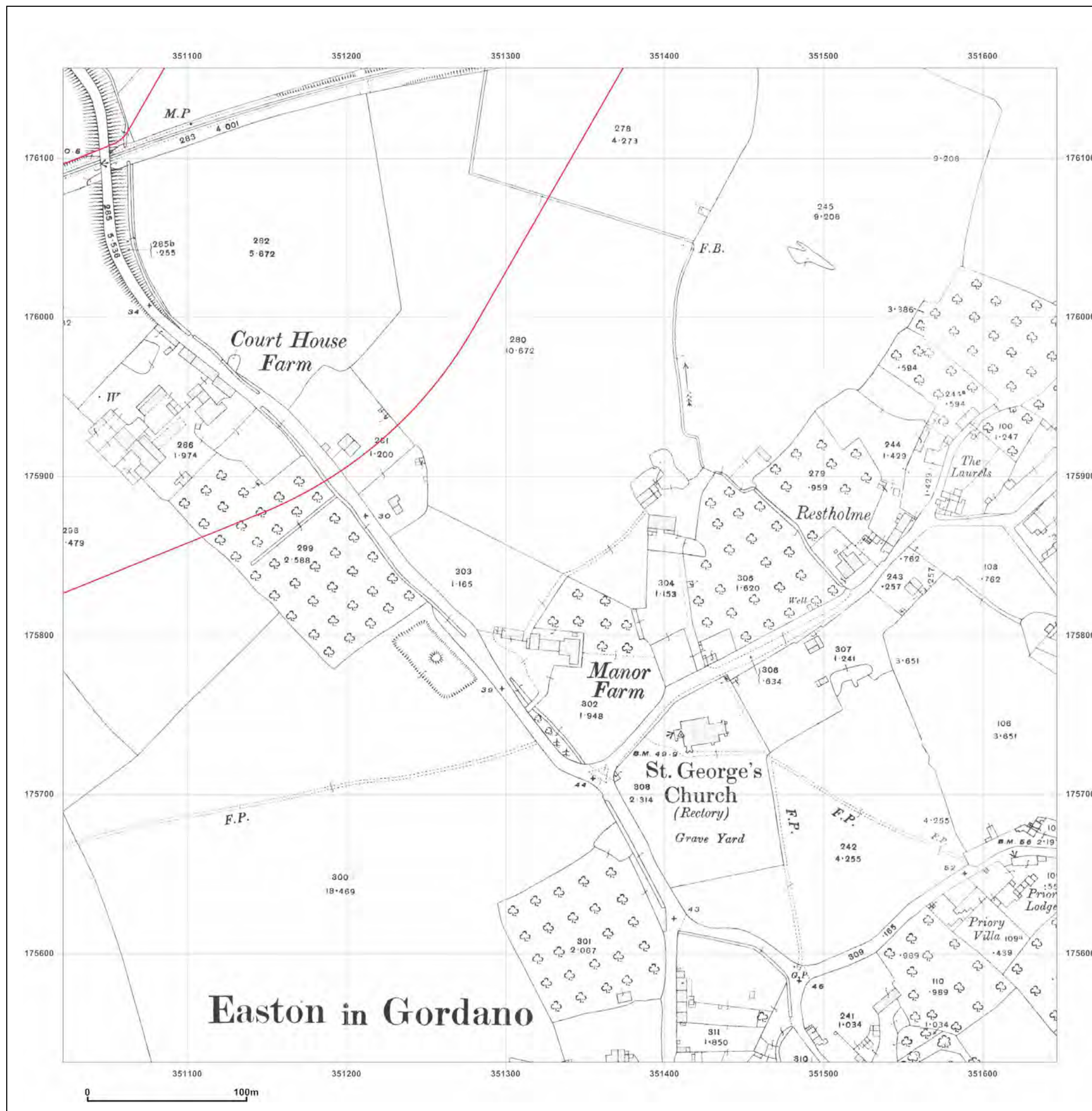


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_P12  
**Grid Ref:** 351334, 175844

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1903  
 Revised 1903  
 Edition N/A  
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Surveyed 1903  
 Revised 1903  
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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_P12  
**Grid Ref:** 351334, 175844

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

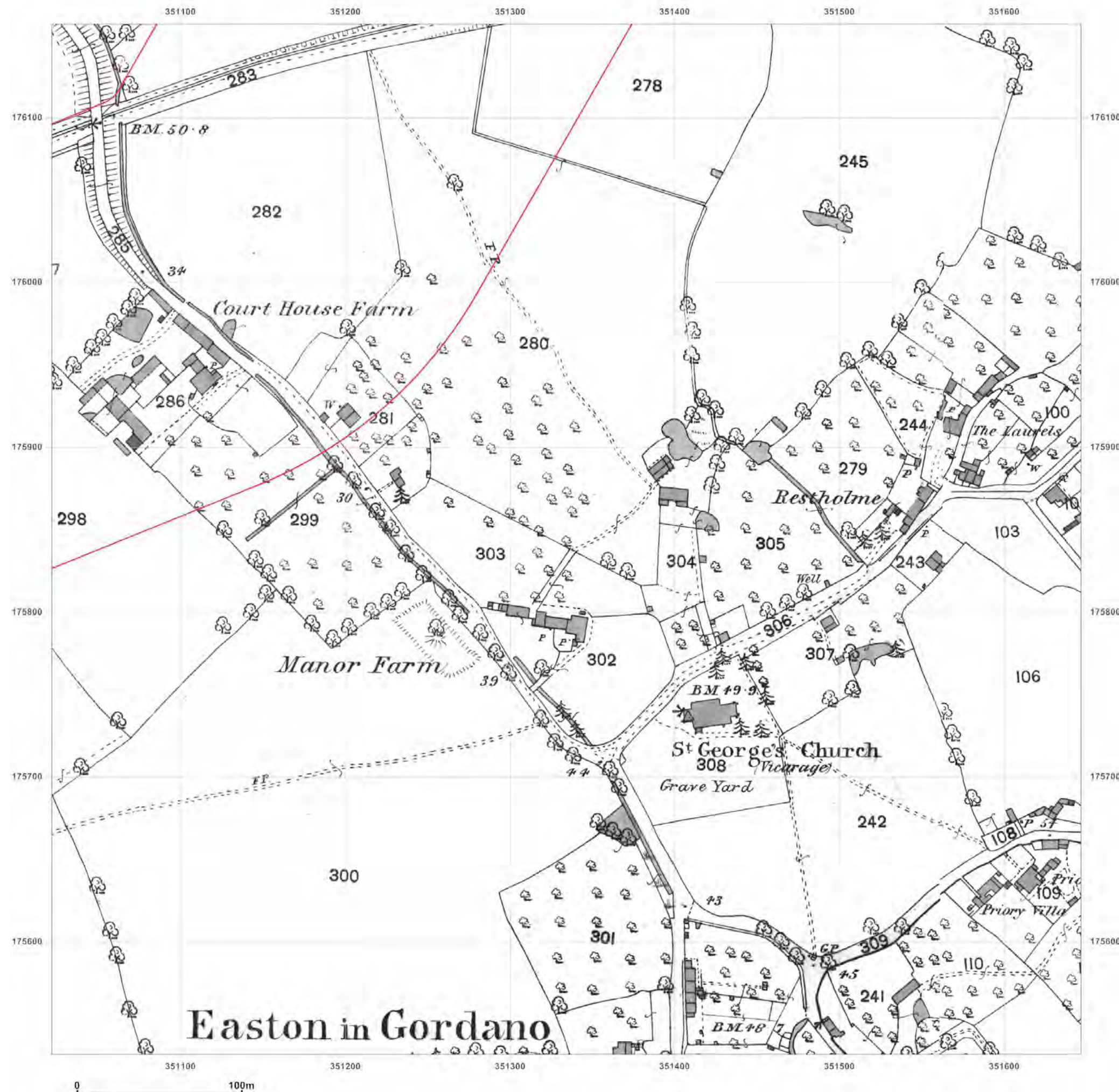


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** National Grid

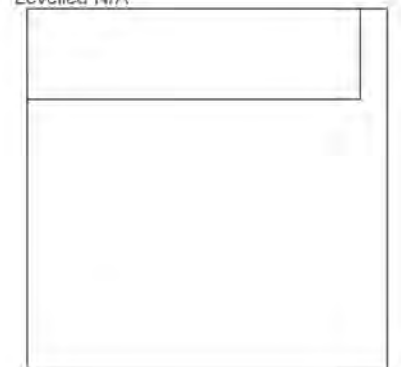
**Map date:** 1994

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

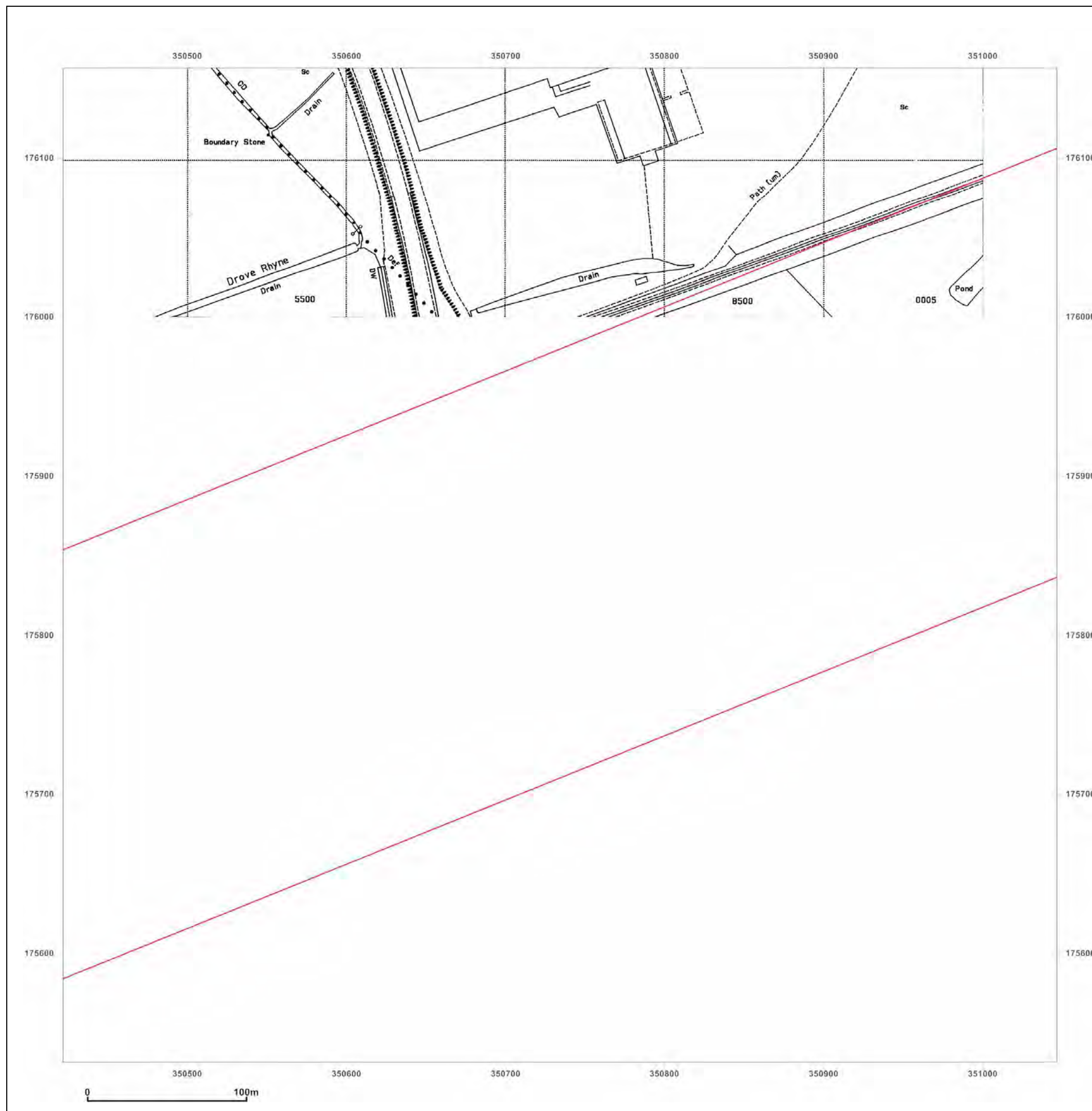


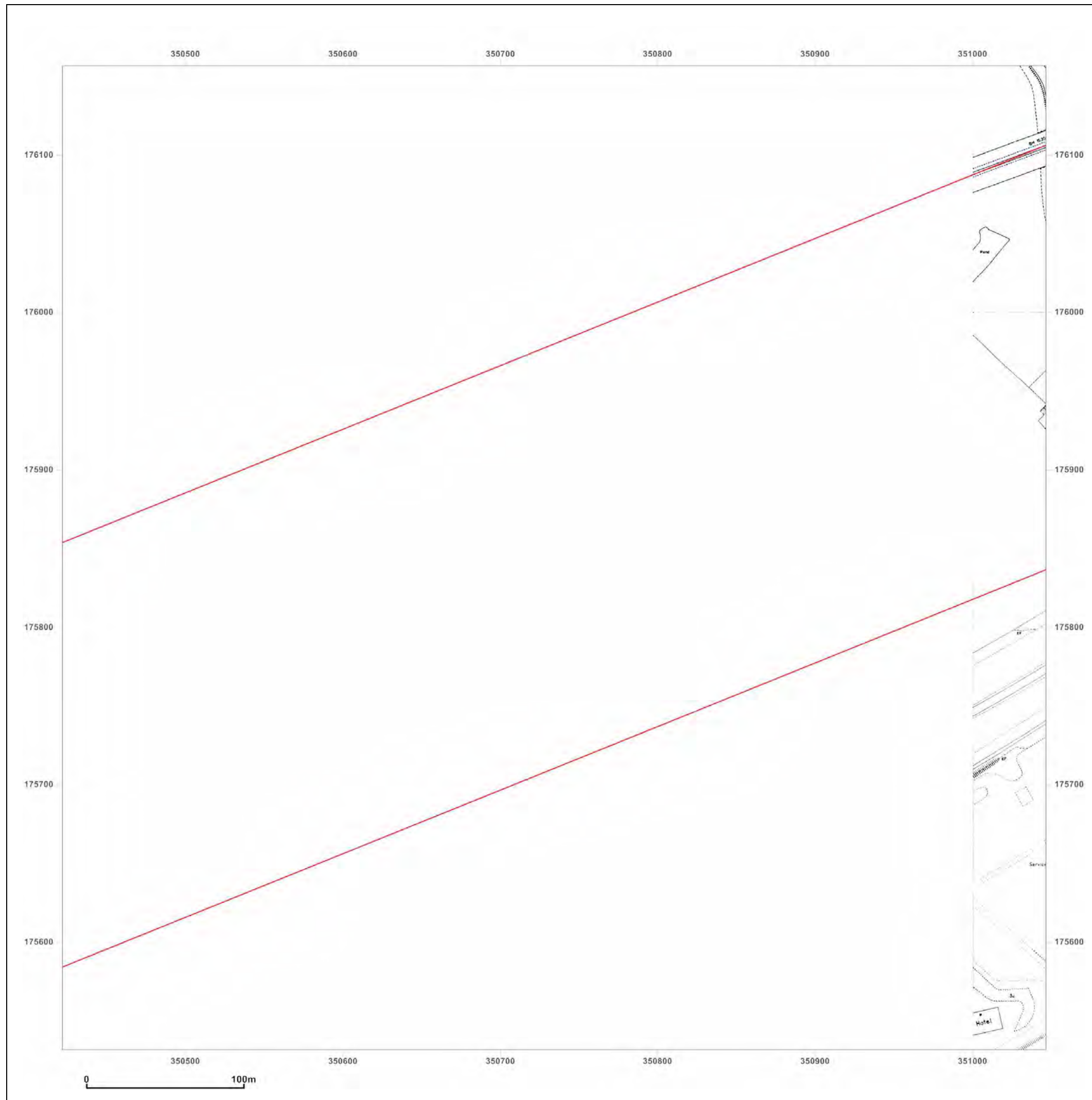
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**Site Details:**  
Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** National Grid  
**Map date:** 1990-1992  
**Scale:** 1:1,250  
**Printed at:** 1:2,500

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

Surveyed 1984  
Revised 1990  
Edition N/A  
Copyright 1990  
Levelled 1984

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**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** National Grid

**Map date:** 1989-1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1977  
 Revised 1989  
 Edition N/A  
 Copyright 1989  
 Levelled 1977

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



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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

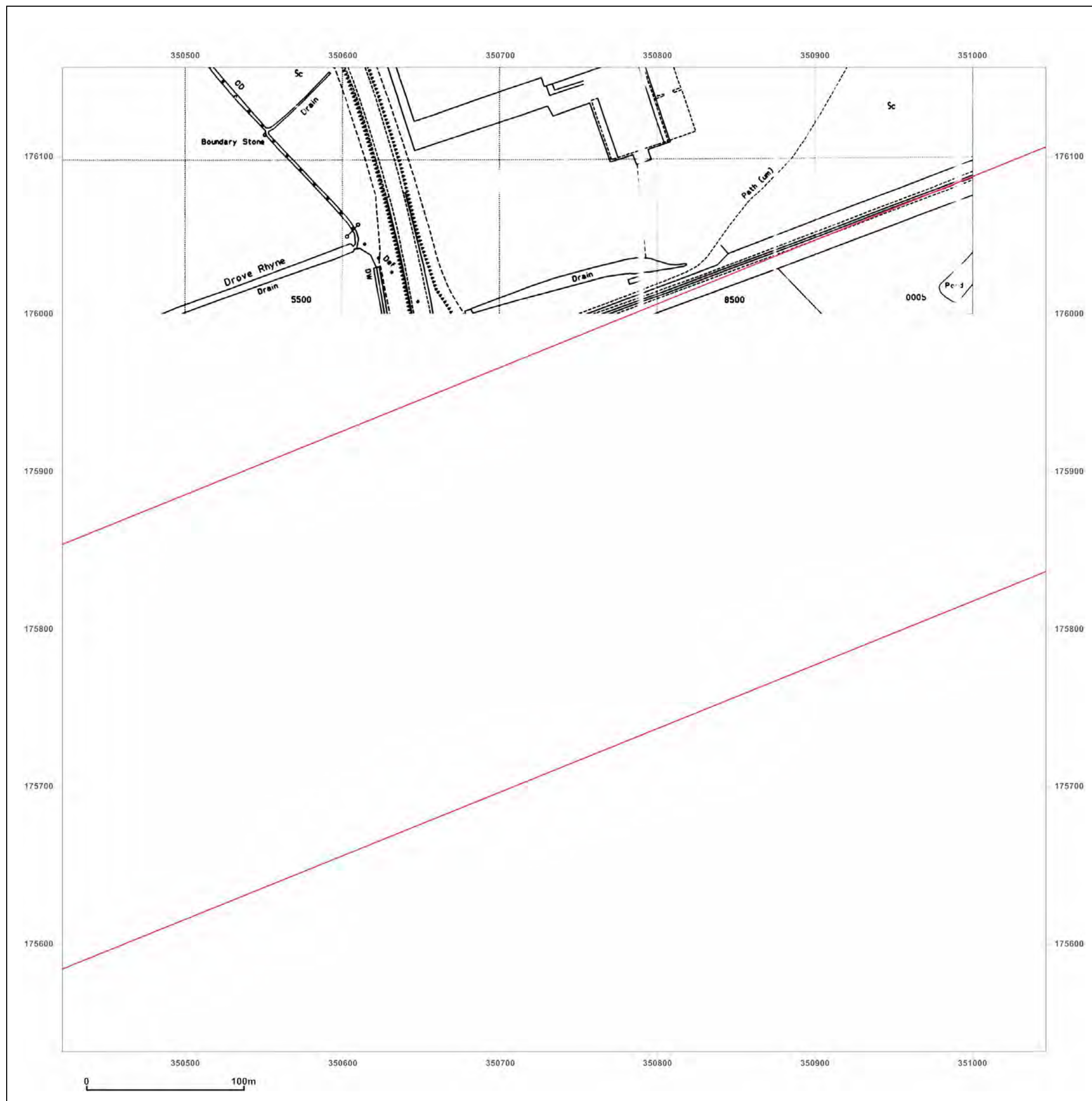


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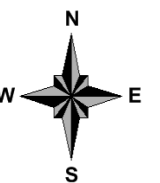
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** National Grid

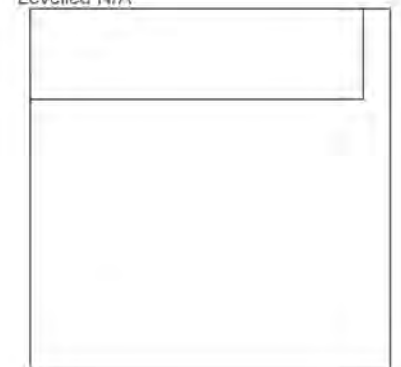
**Map date:** 1991

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

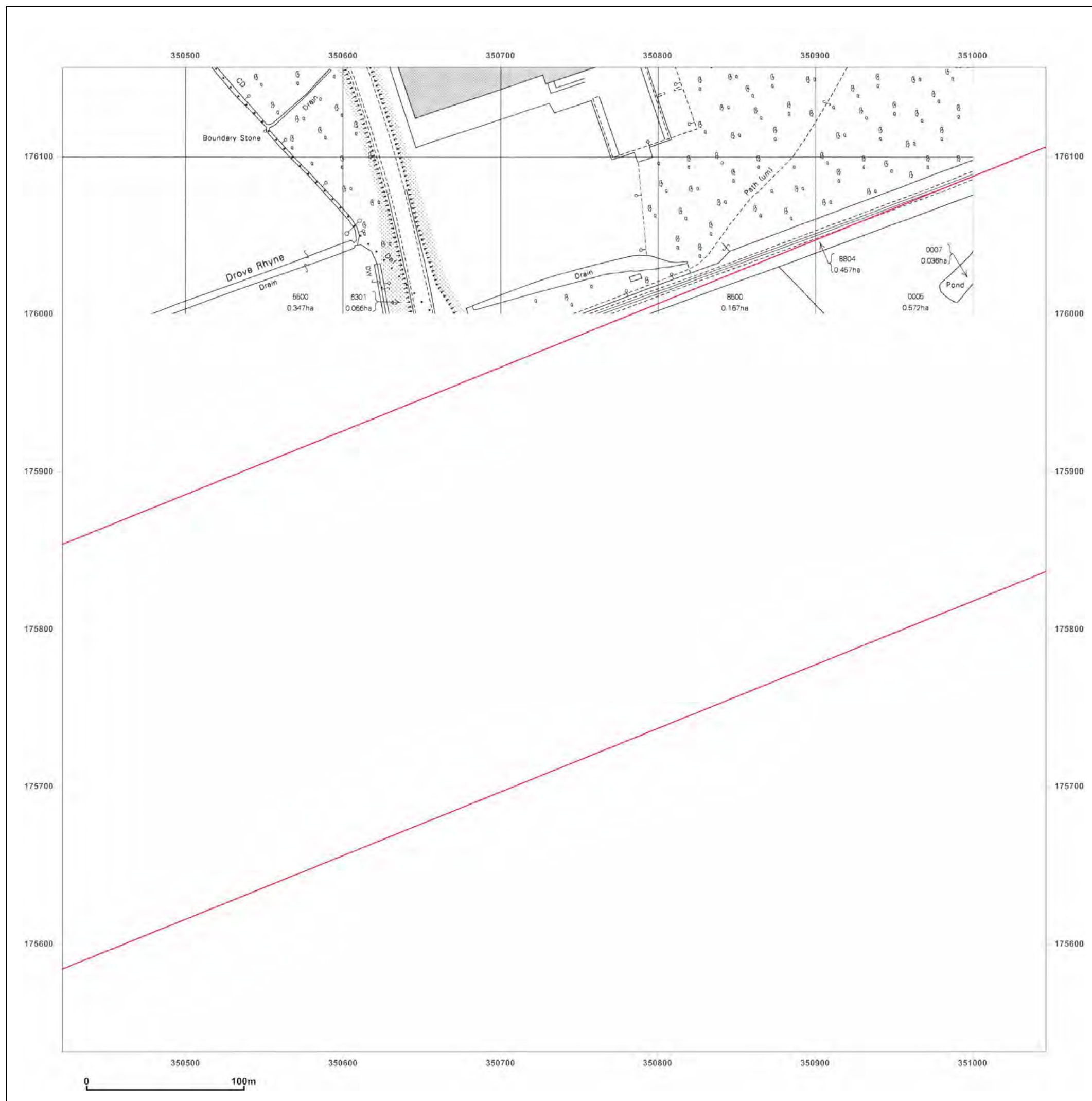


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#### Site Details:

Hinkley Project

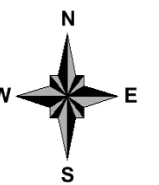
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** National Grid

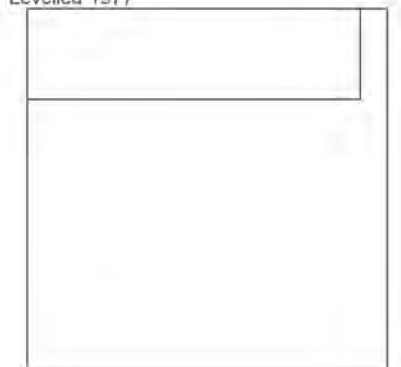
**Map date:** 1989

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1977  
 Revised 1989  
 Edition N/A  
 Copyright 1989  
 Levelled 1977

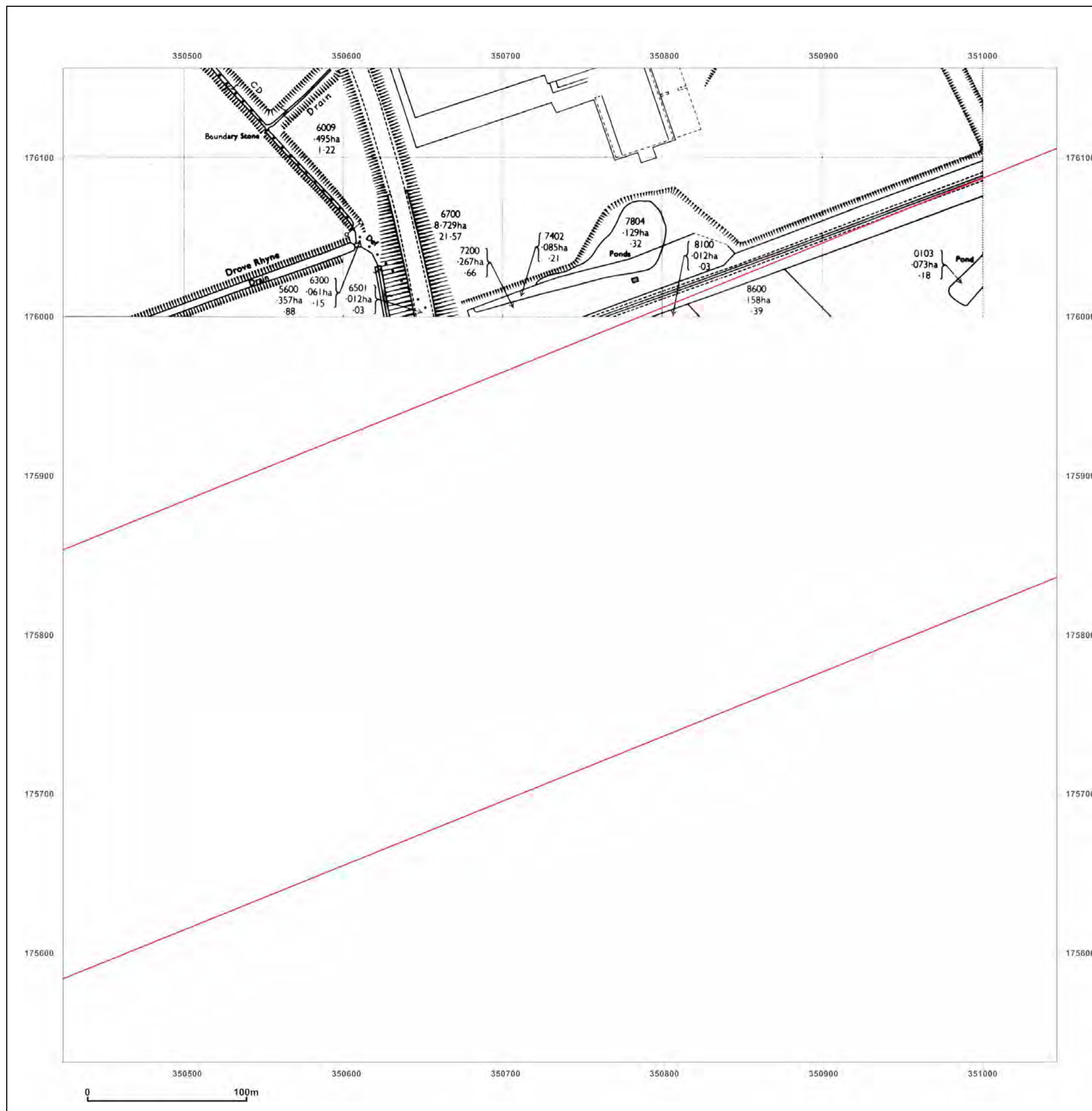


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** National Grid

**Map date:** 1980-1984

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1977  
 Revised 1984  
 Edition N/A  
 Copyright 1984  
 Levelled 1977

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

Surveyed 1956  
 Revised 1980  
 Edition N/A  
 Copyright 1980  
 Levelled 1956

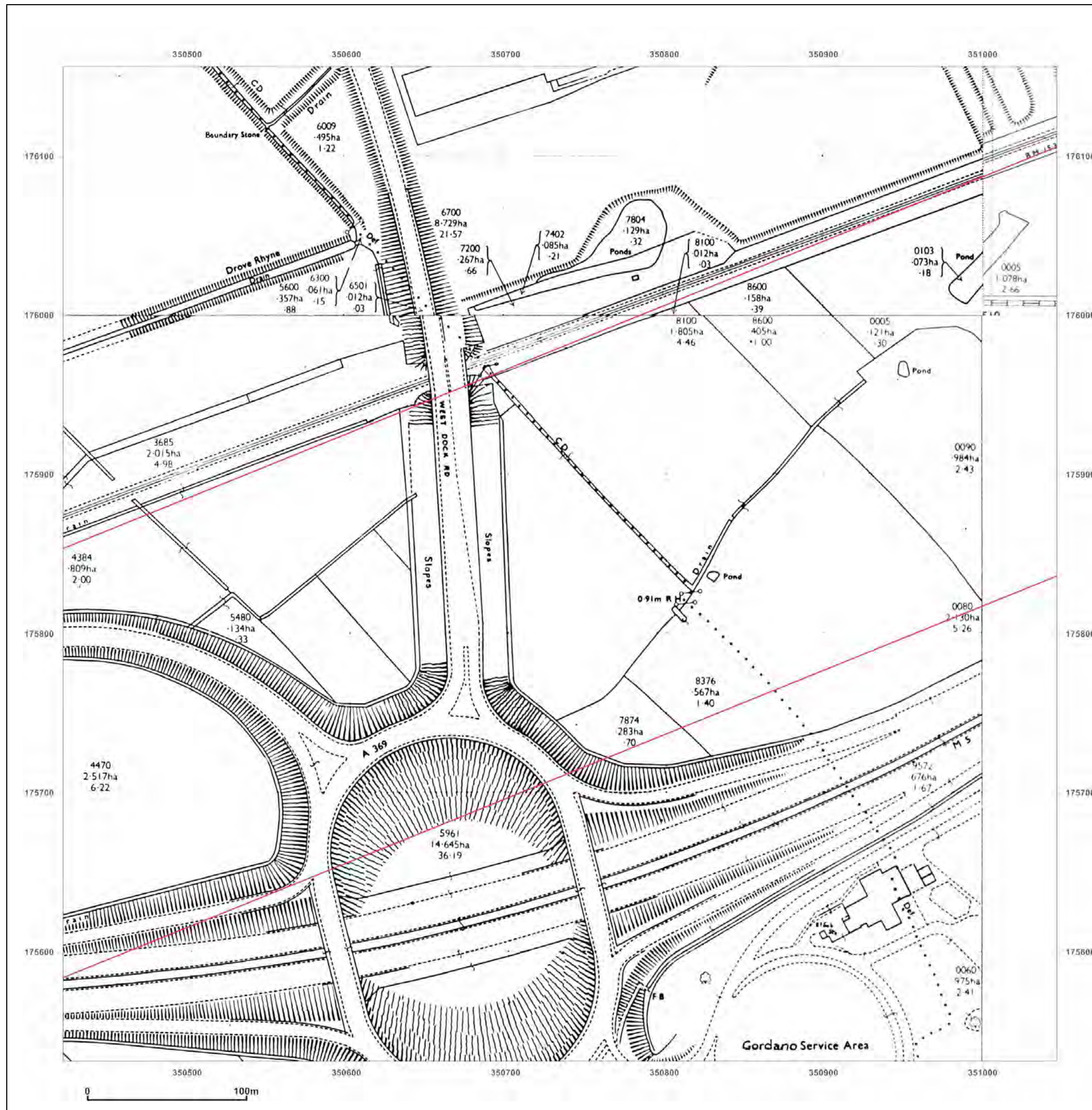


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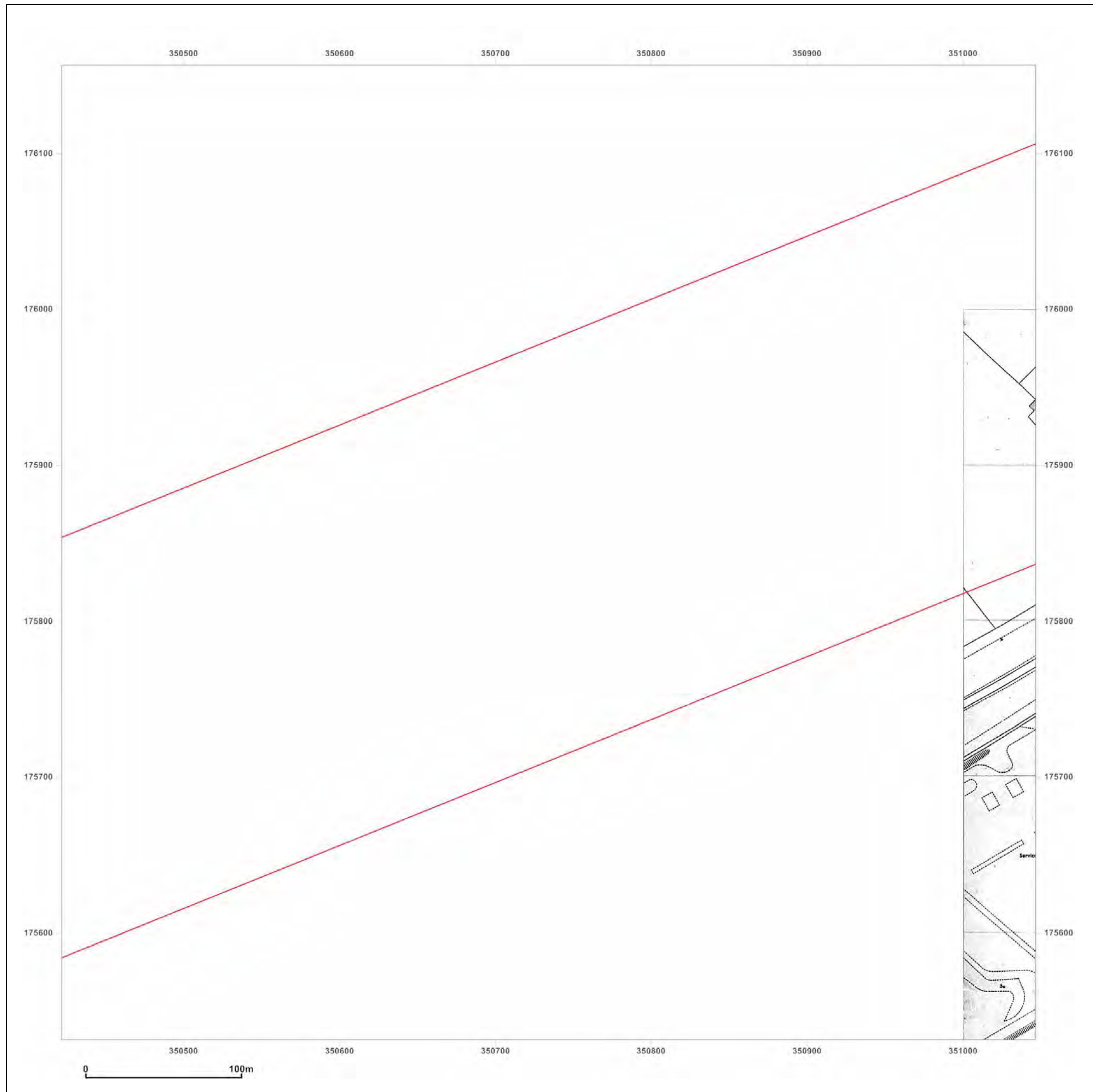
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**Site Details:**  
Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** National Grid  
**Map date:** 1981  
**Scale:** 1:1,250  
**Printed at:** 1:2,500

Surveyed 1966  
Revised 1981  
Edition N/A  
Copyright 1981  
Levelled 1966

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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** National Grid

**Map date:** 1973-1978

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1972  
 Revised 1978  
 Edition N/A  
 Copyright 1980  
 Levelled 1977

Surveyed 1973  
 Revised 1973  
 Edition N/A  
 Copyright 1974  
 Levelled 1956

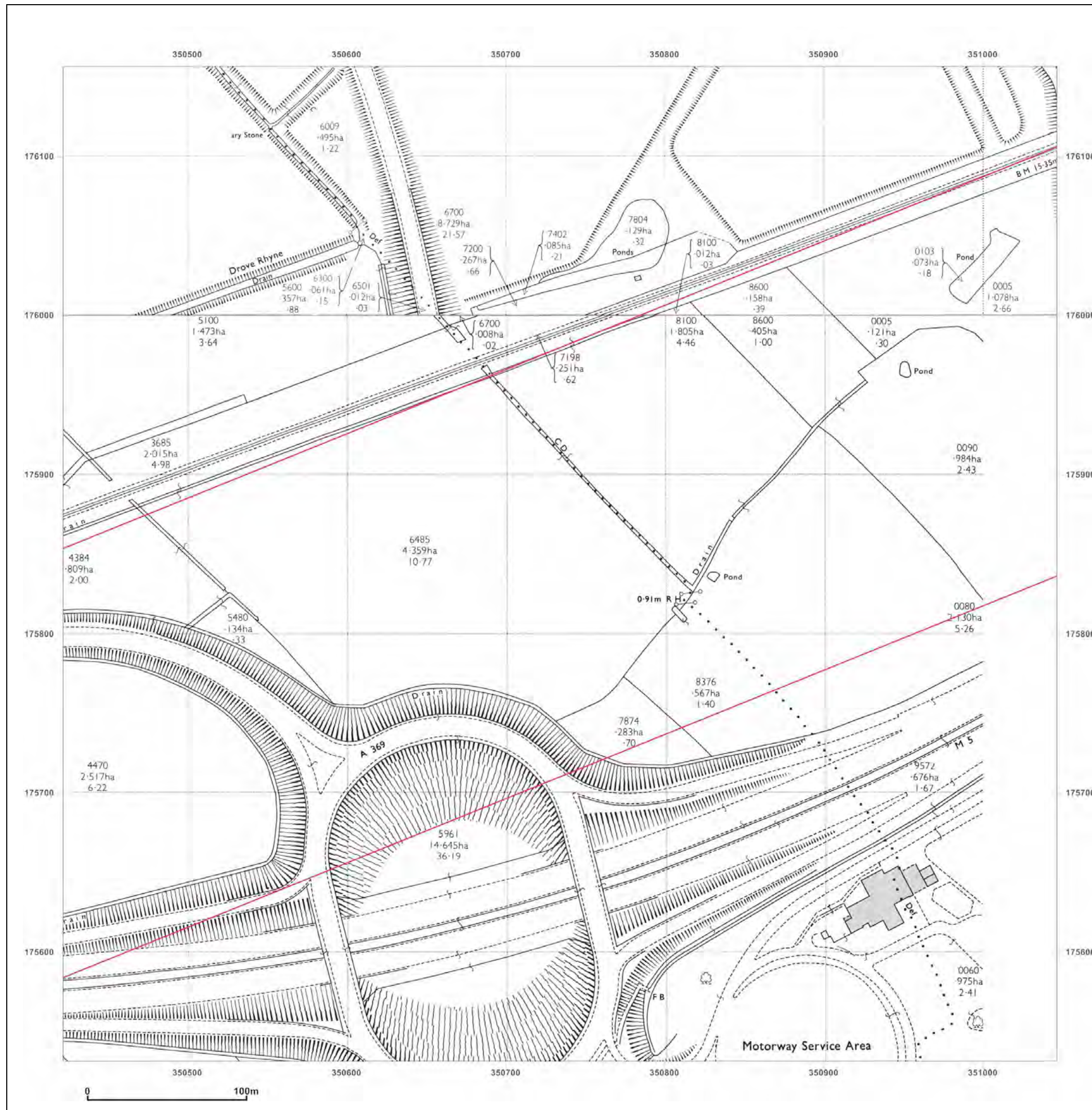


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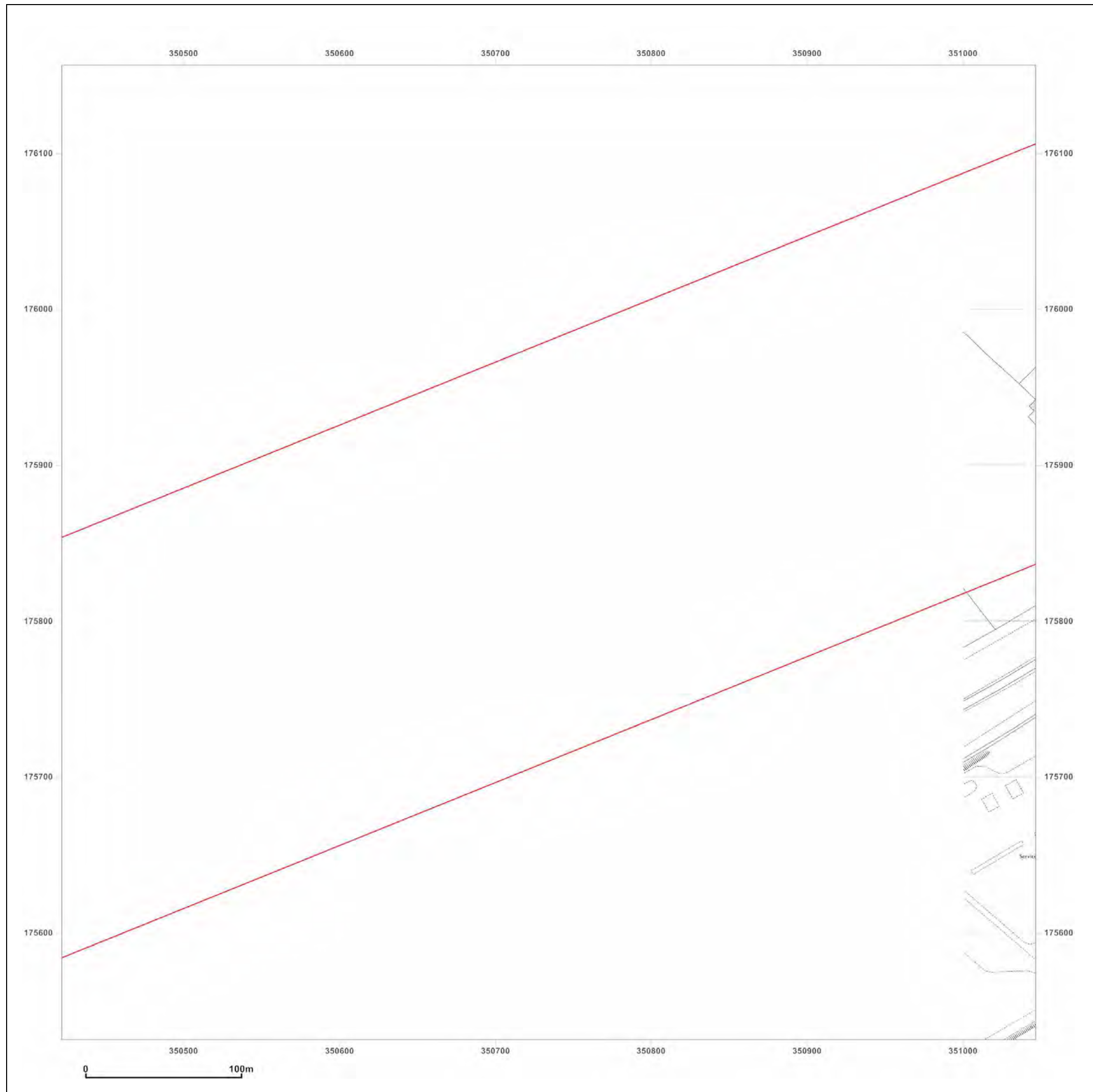
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**Site Details:**  
Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** National Grid  
**Map date:** 1973  
**Scale:** 1:1,250  
**Printed at:** 1:2,500

Surveyed 1972  
Revised 1972  
Edition N/A  
Copyright 1973  
Levelled 1966



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** County Series

**Map date:** 1916

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

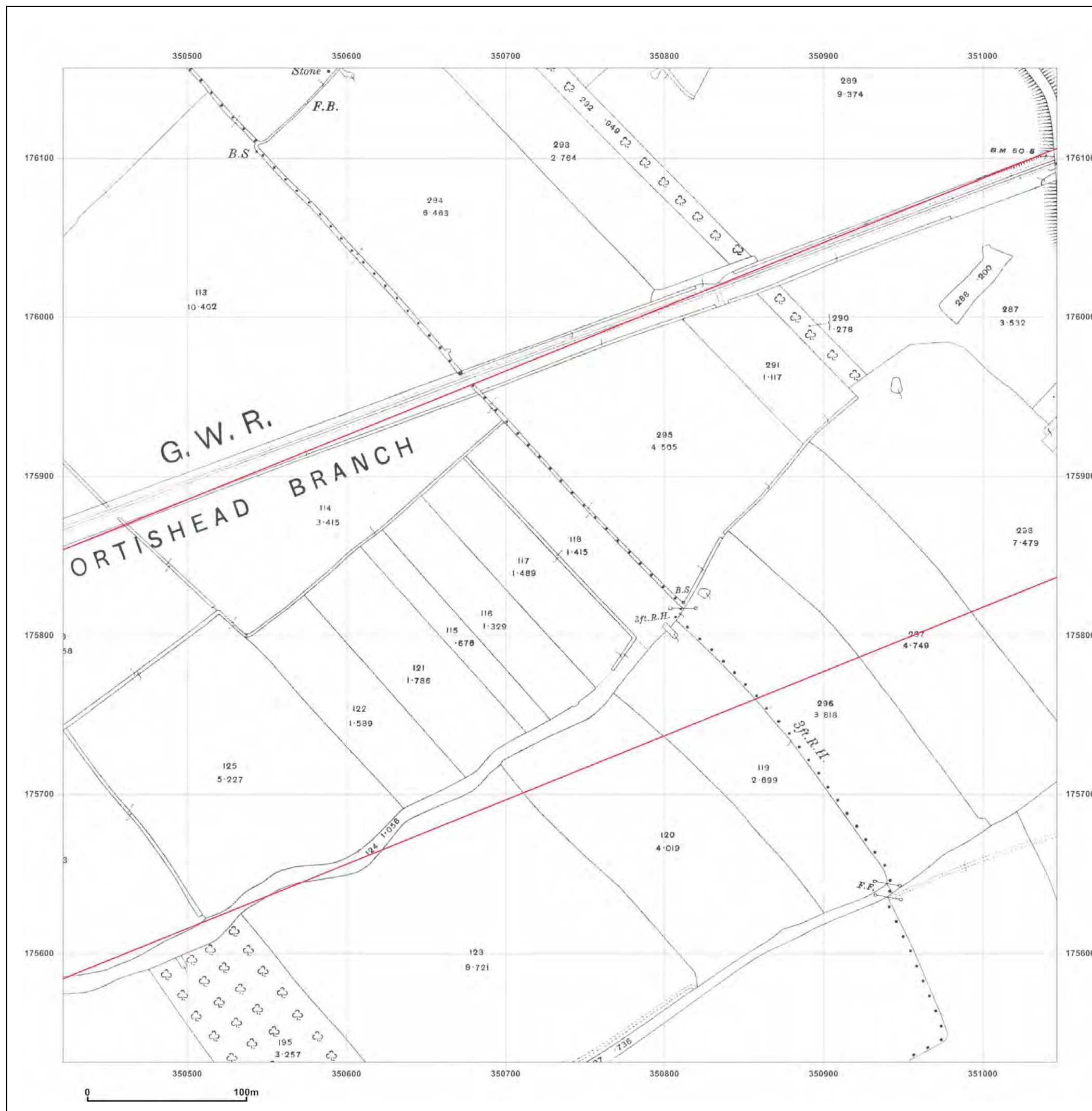


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_O12  
**Grid Ref:** 350734, 175844

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

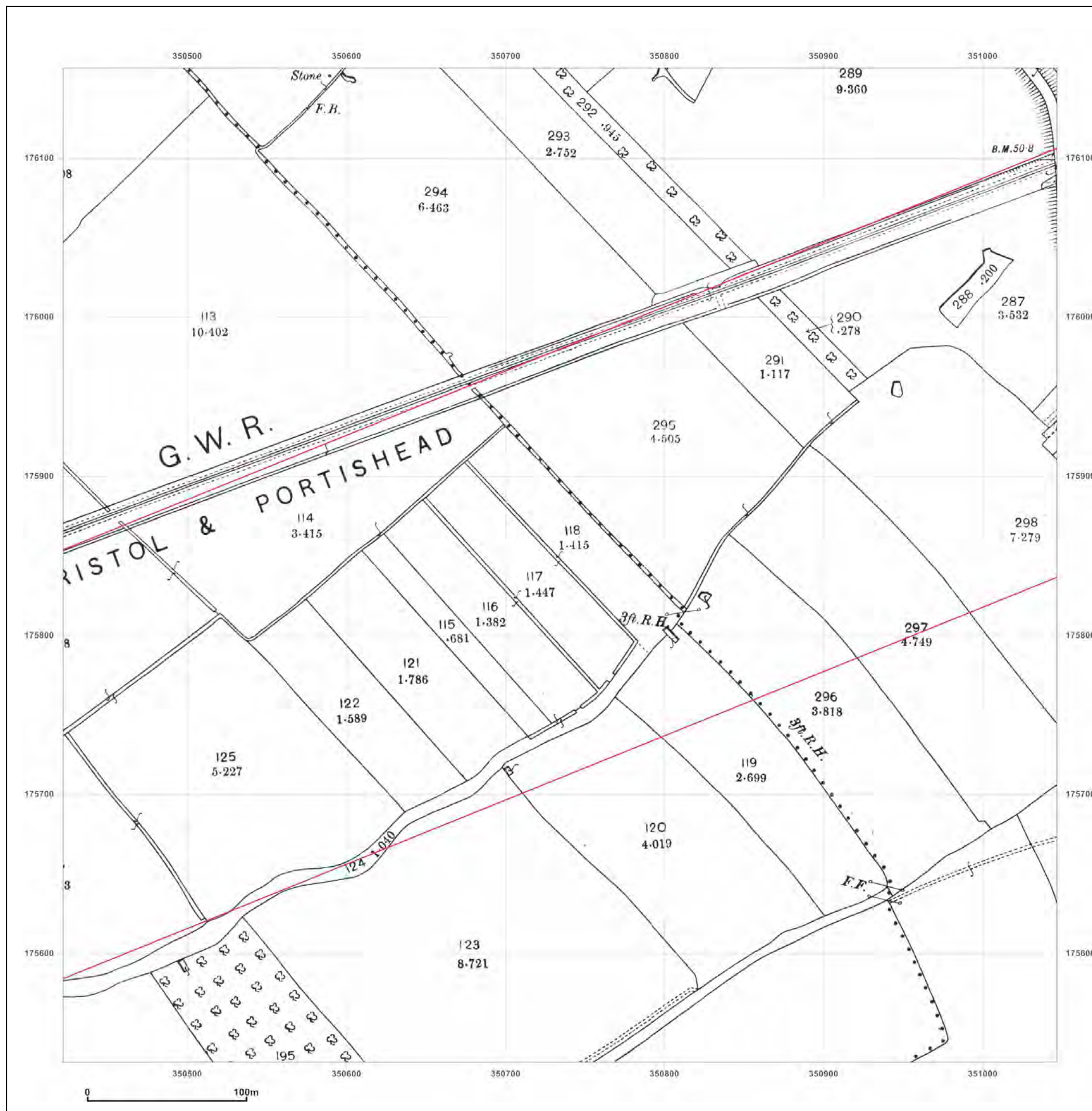


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_N13  
**Grid Ref:** 350333, 175243

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_N13  
**Grid Ref:** 350333, 175243

**Map Name:** National Grid

**Map date:** 1980

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1956  
 Revised 1980  
 Edition N/A  
 Copyright 1980  
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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_N13  
**Grid Ref:** 350333, 175243

**Map Name:** National Grid

**Map date:** 1973-1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1973  
 Revised 1973  
 Edition N/A  
 Copyright 1974  
 Levelled 1956

Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_N13  
**Grid Ref:** 350333, 175243

**Map Name:** County Series

**Map date:** 1915-1916

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

Surveyed 1915  
 Revised 1915  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

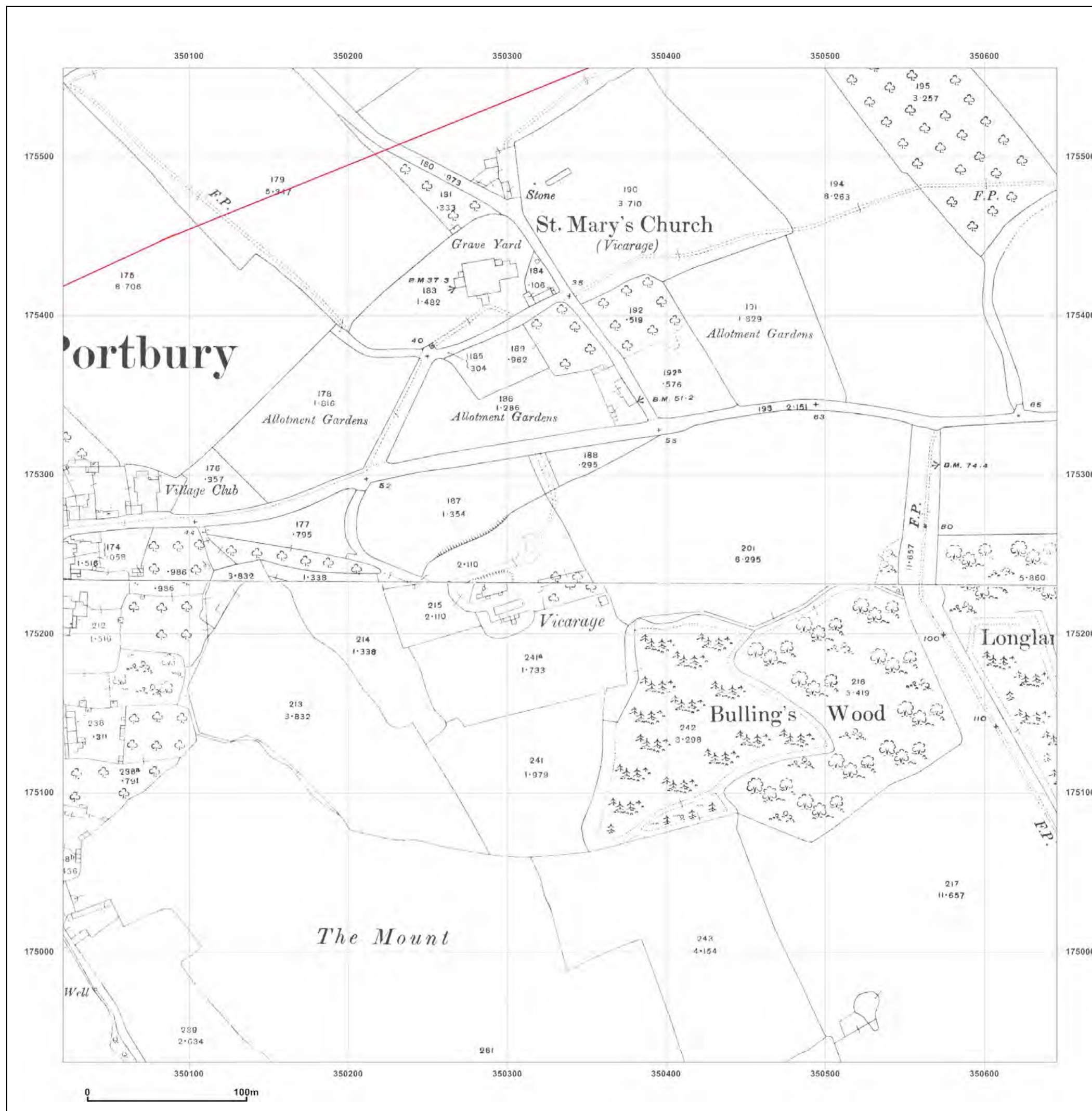


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_N13  
**Grid Ref:** 350333, 175243

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

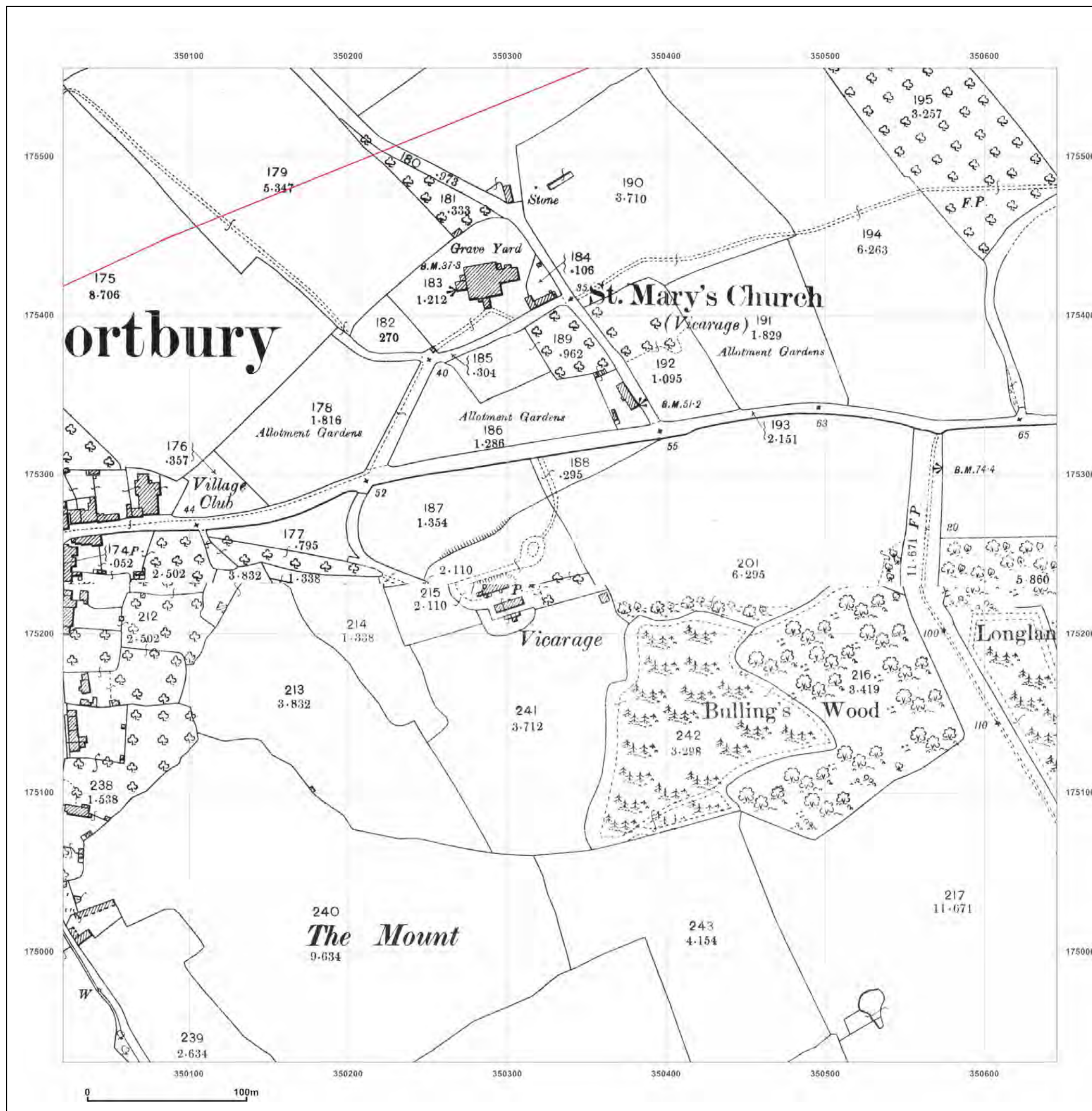


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#### Site Details:

Hinkley Project

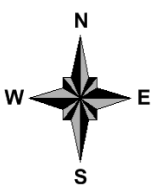
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**Report Ref:** HMD-278-816308\_7\_LS\_N13  
**Grid Ref:** 350333, 175243

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

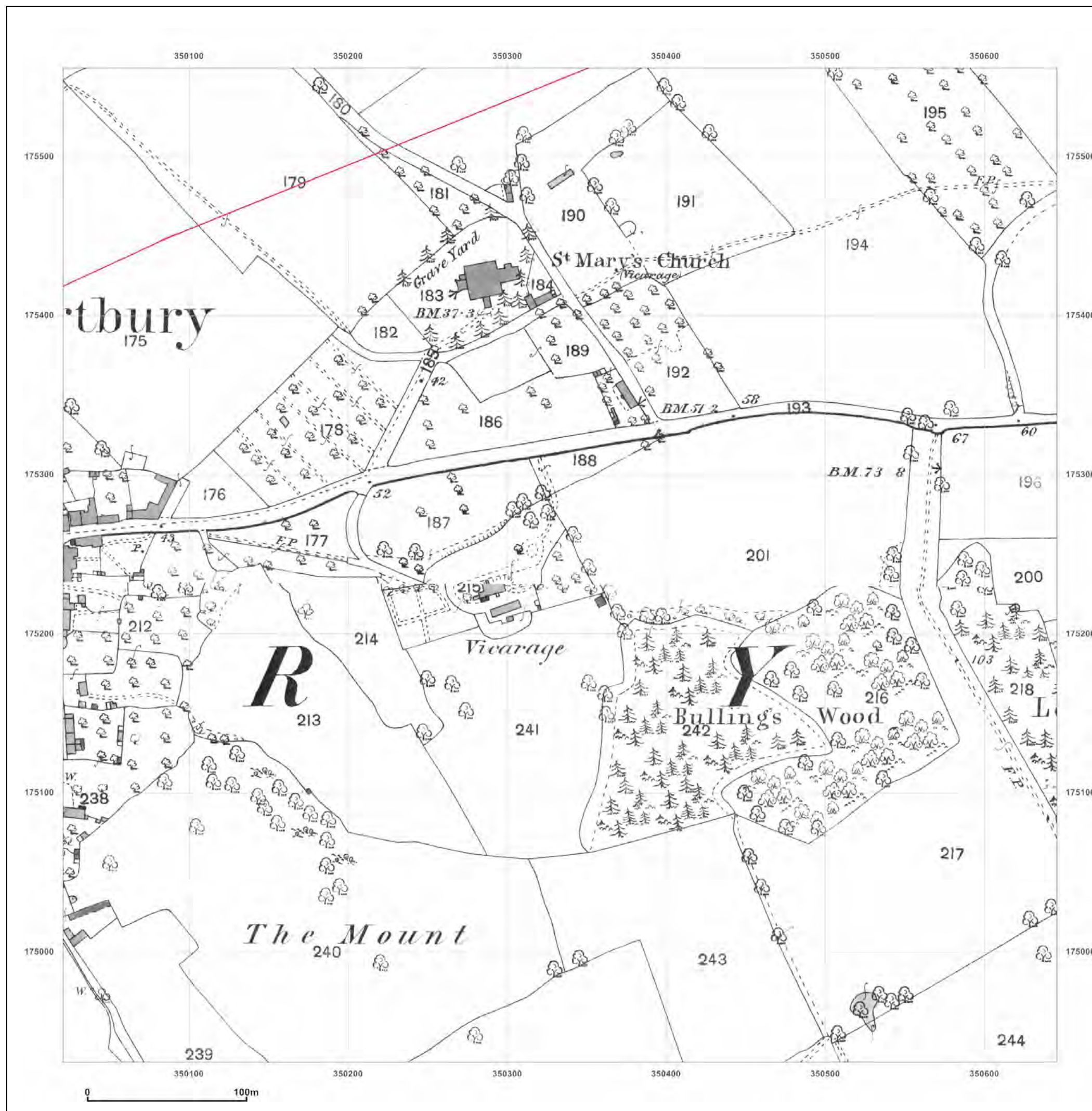


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M14  
**Grid Ref:** 349021, 174644

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

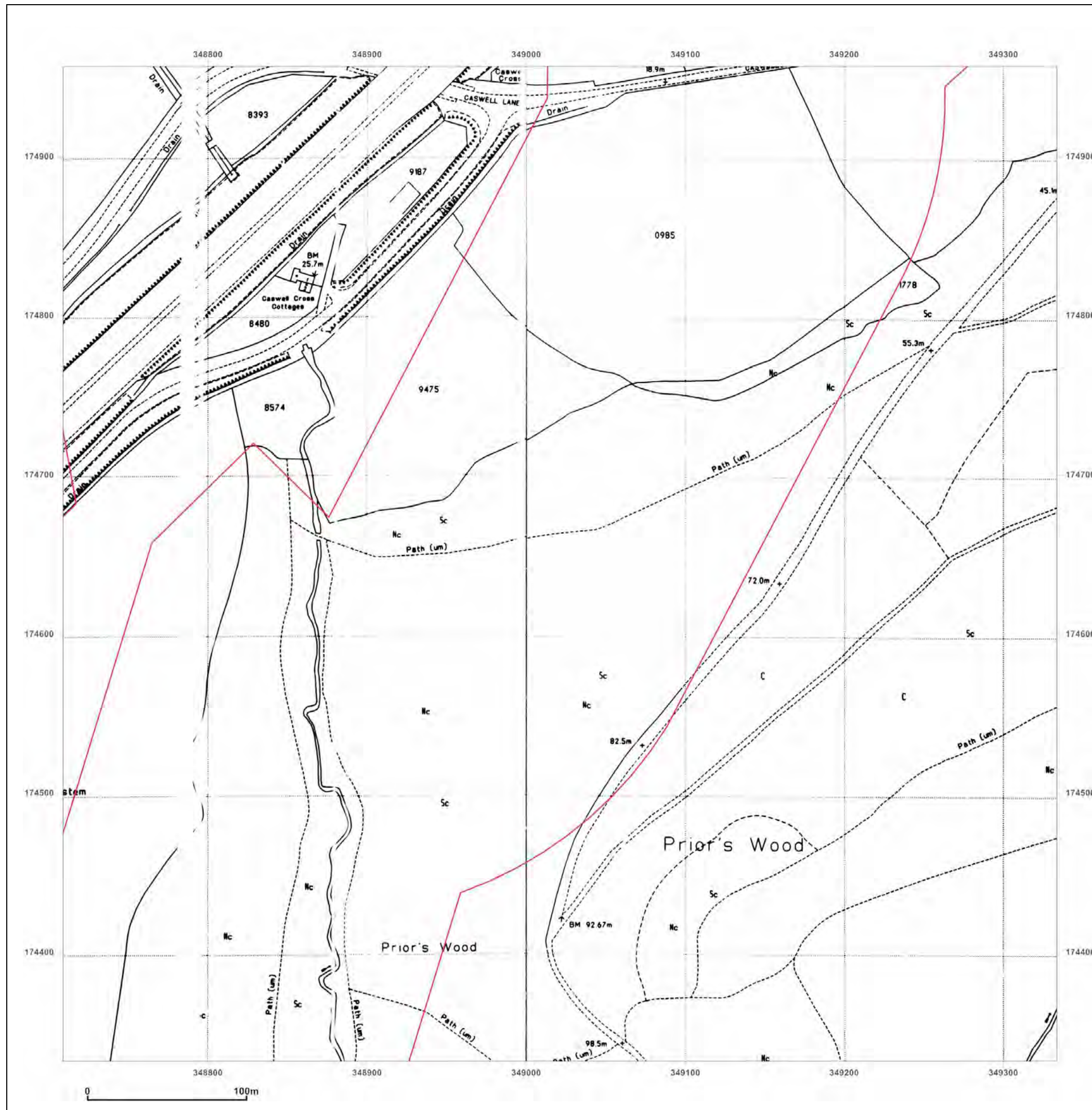


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M14  
**Grid Ref:** 349021, 174644

**Map Name:** National Grid

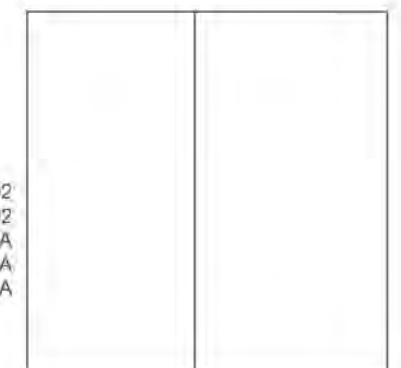
**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

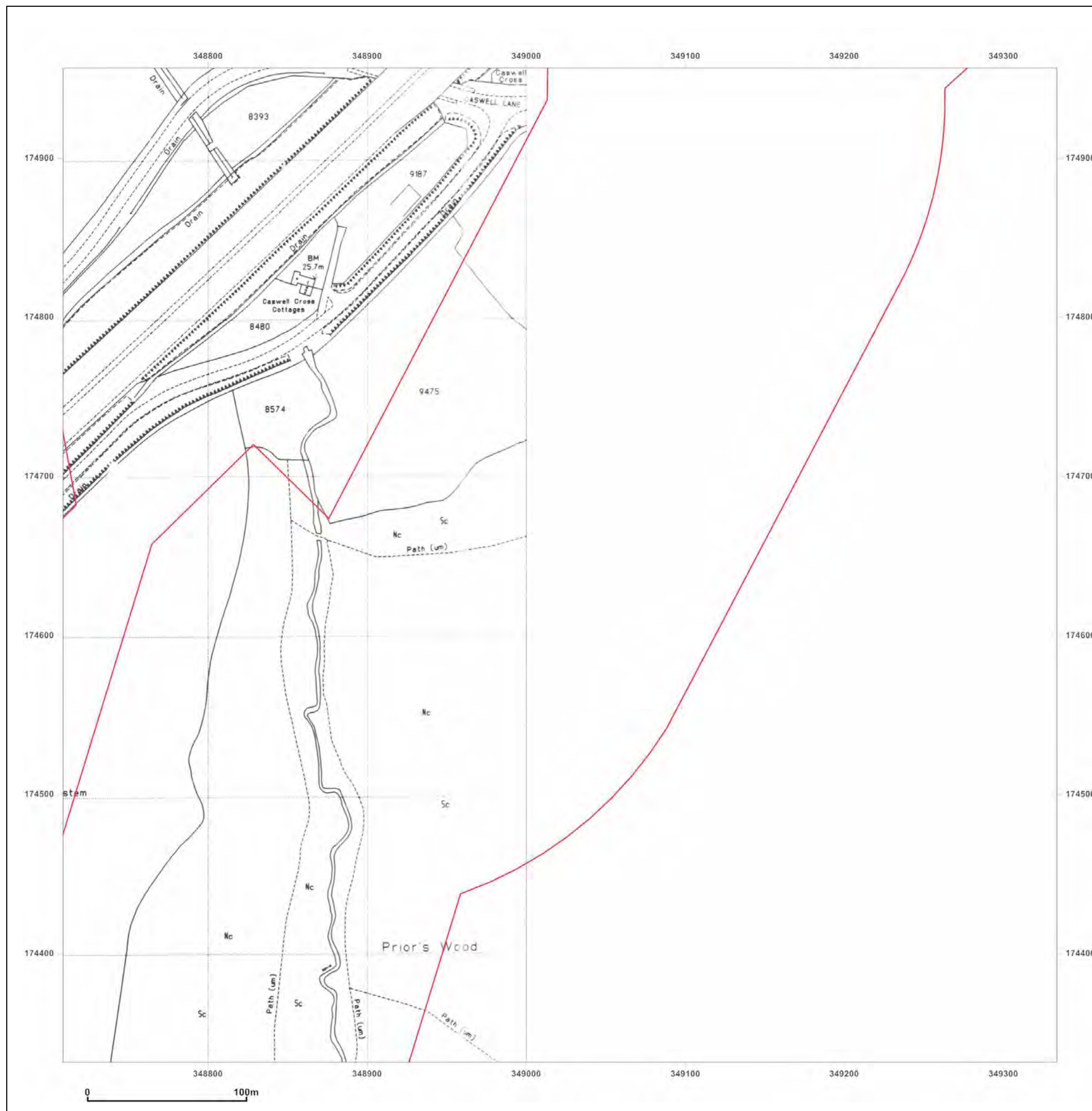


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M14  
**Grid Ref:** 349021, 174644

**Map Name:** National Grid

**Map date:** 1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

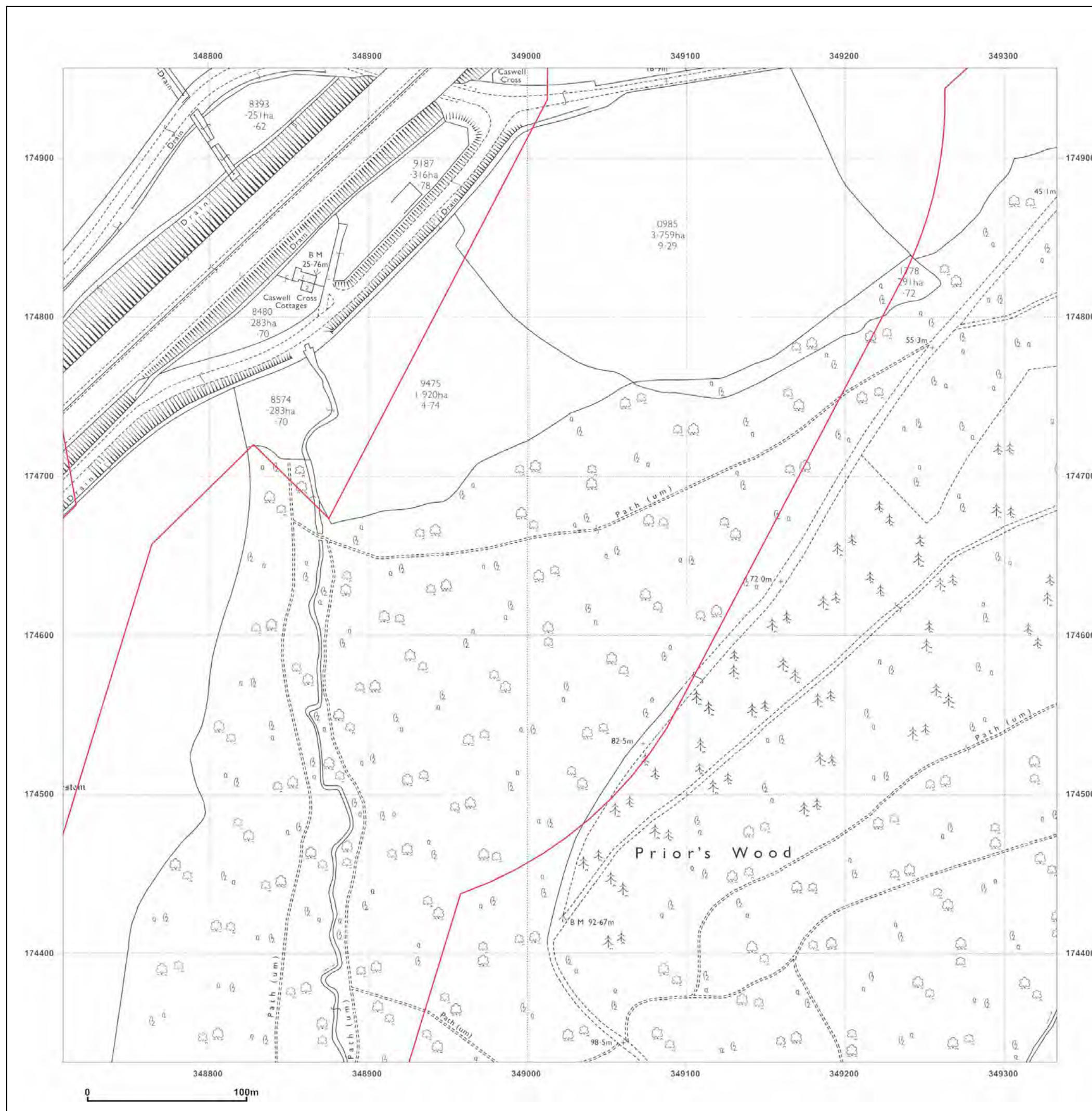


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M14  
**Grid Ref:** 349021, 174644

**Map Name:** County Series

**Map date:** 1931

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

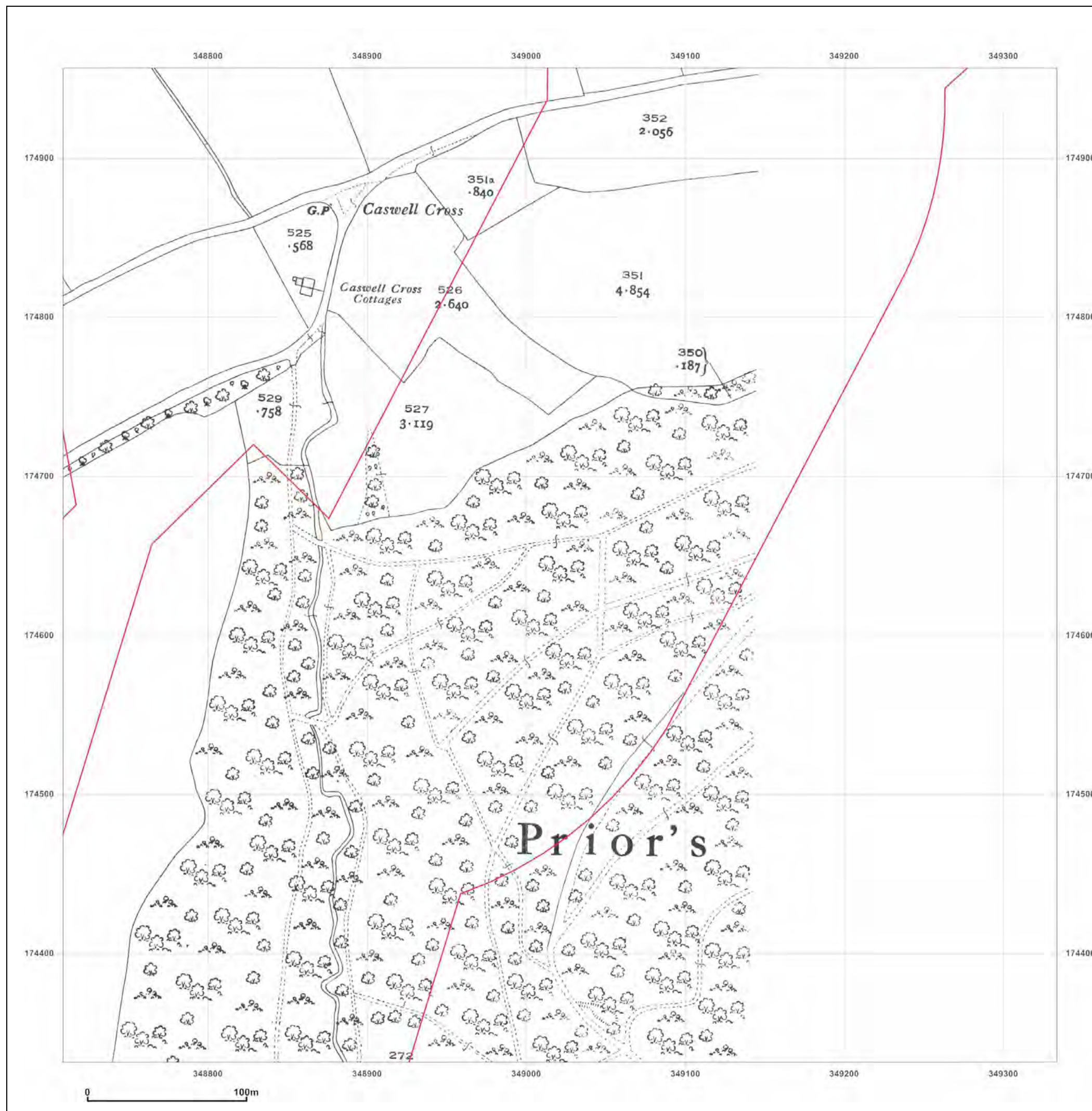


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M14  
**Grid Ref:** 349021, 174644

**Map Name:** County Series

**Map date:** 1915

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1915  
 Revised 1915  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1915  
 Revised 1915  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

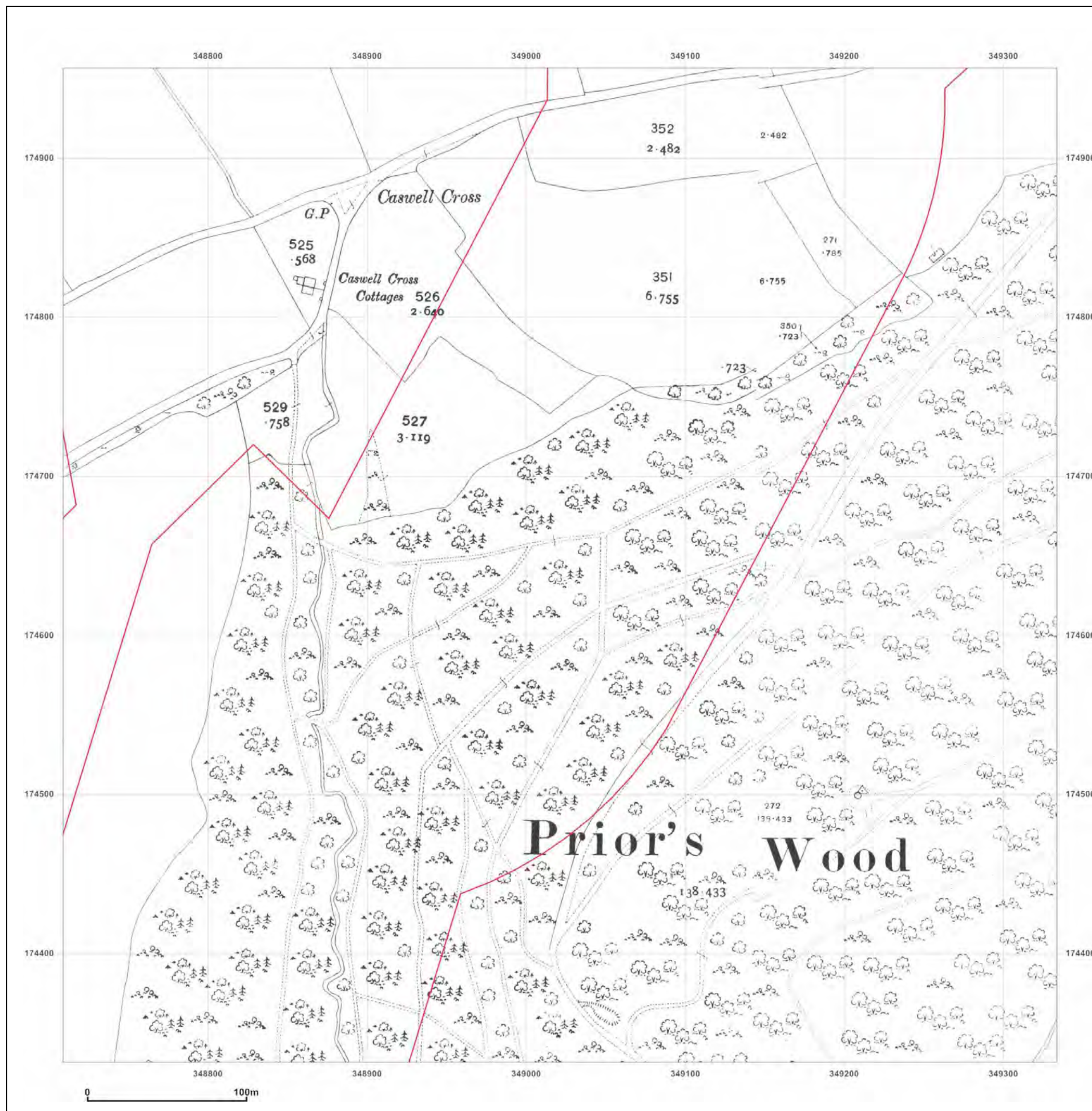


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M14  
**Grid Ref:** 349021, 174644

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

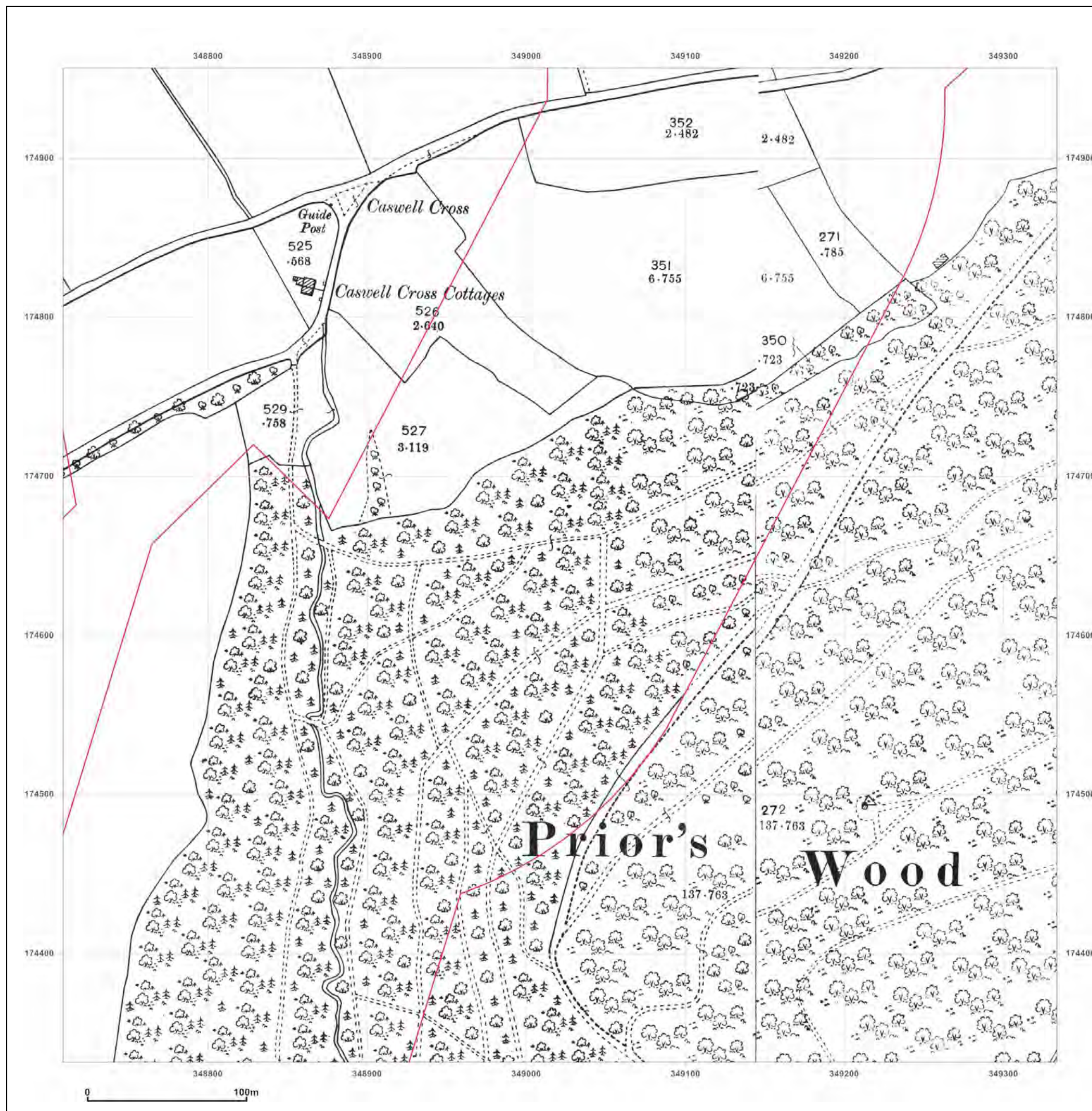


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M14  
**Grid Ref:** 349021, 174644

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

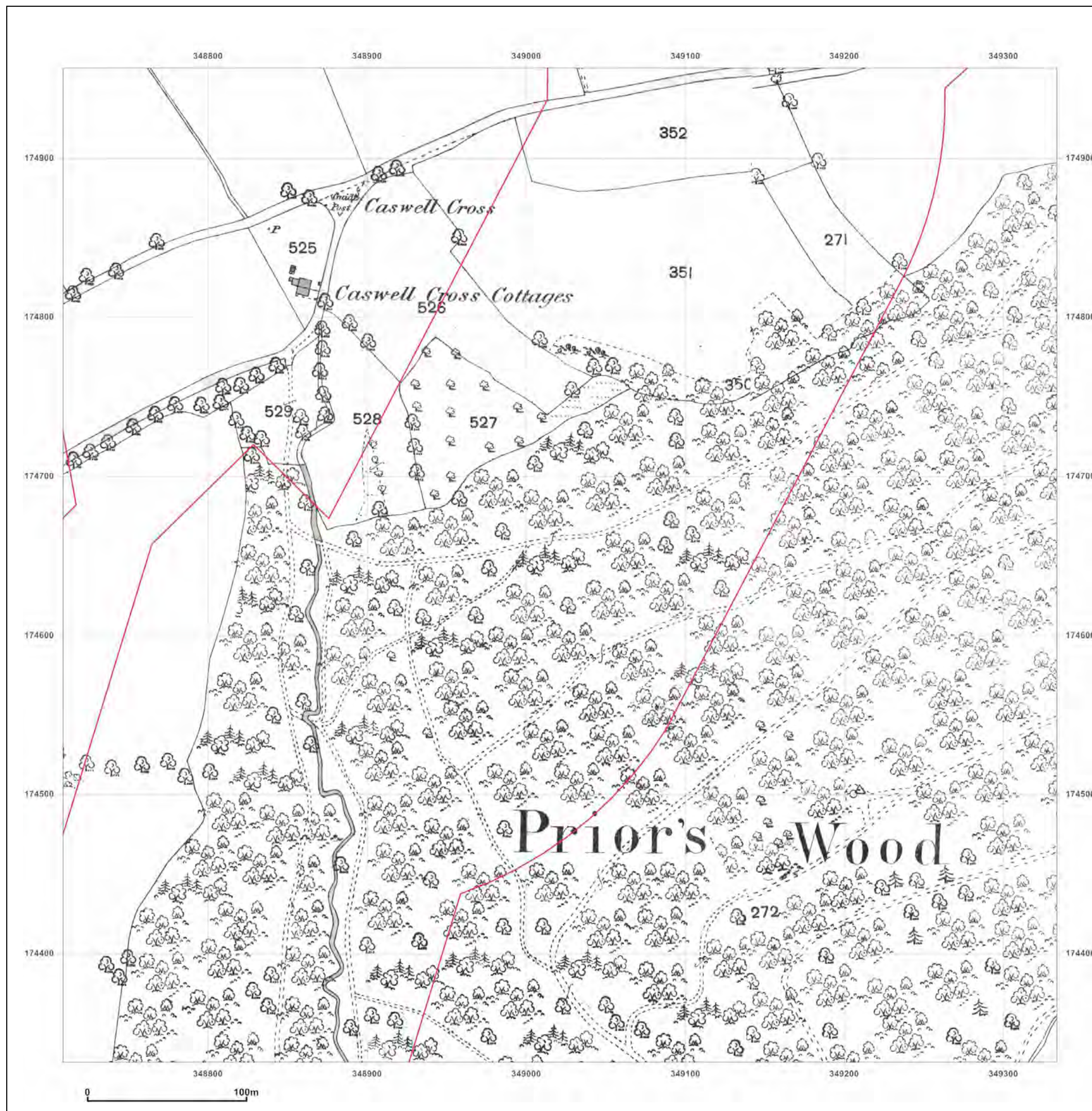


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M13  
**Grid Ref:** 349733, 175243

**Map Name:** National Grid

**Map date:** 1989-1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1966  
 Revised 1989  
 Edition N/A  
 Copyright 1989  
 Levelled 1966

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

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

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

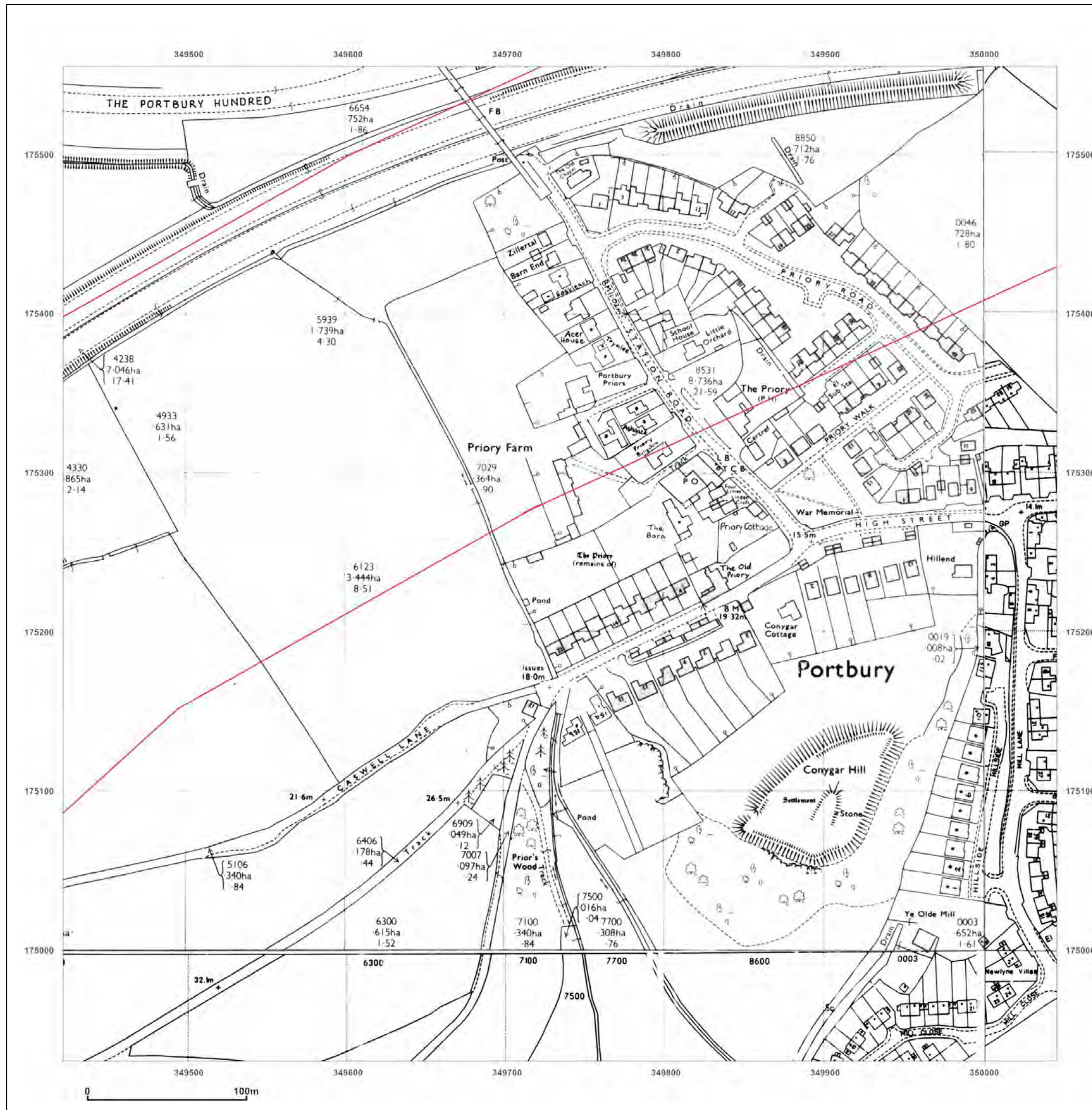


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M13  
**Grid Ref:** 349733, 175243

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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



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**Site Details:**

Hinkley Project

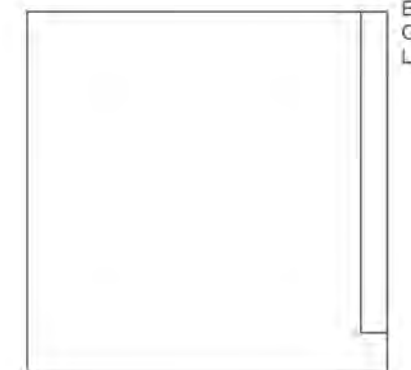
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M13  
**Grid Ref:** 349733, 175243

**Map Name:** National Grid

**Map date:** 1980

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1956  
Revised 1980  
Edition N/A  
Copyright 1980  
Levelled 1956

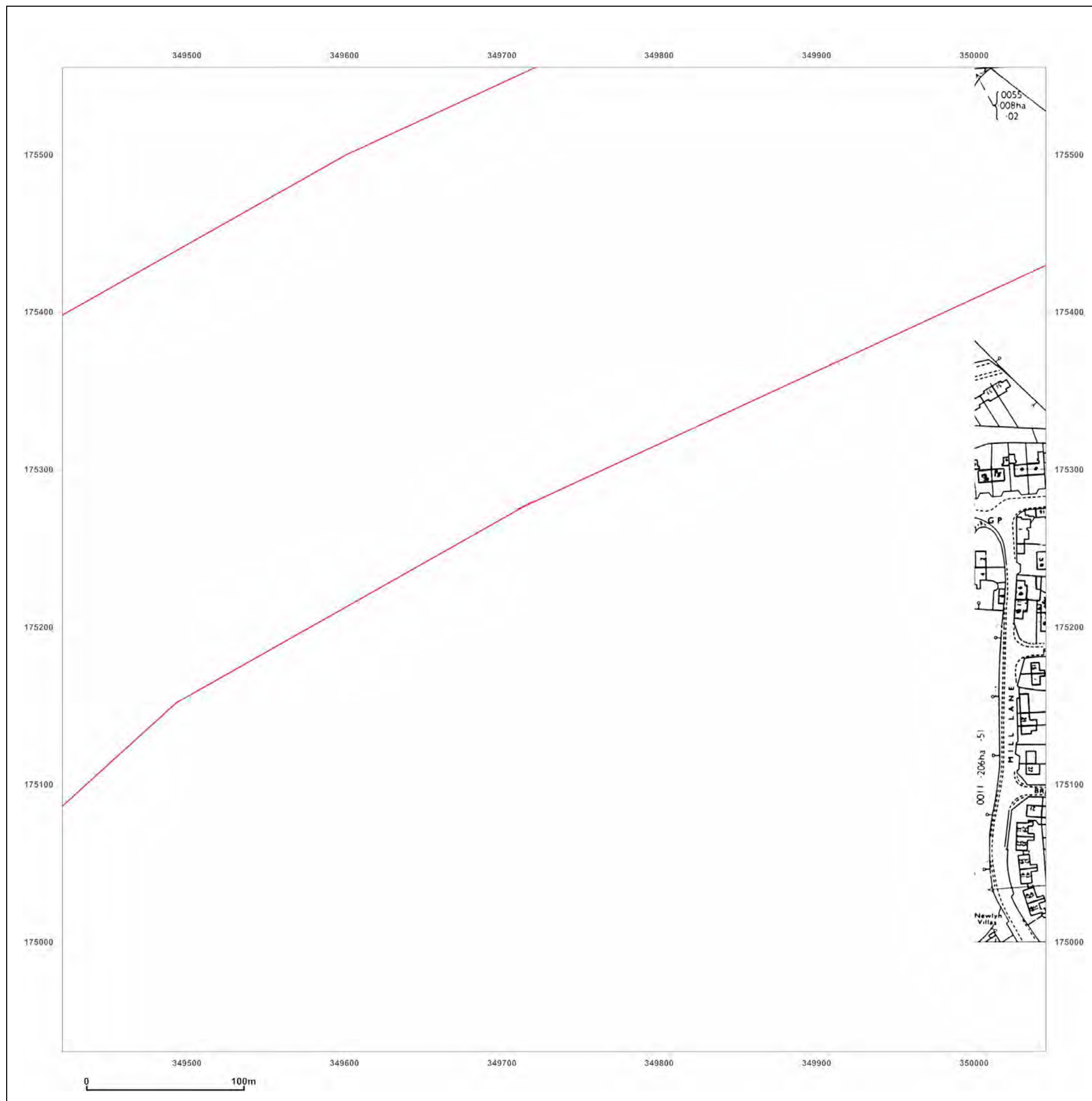


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M13  
**Grid Ref:** 349733, 175243

**Map Name:** National Grid

**Map date:** 1973-1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1976  
 Levelled 1966

Surveyed 1973  
 Revised 1973  
 Edition N/A  
 Copyright 1974  
 Levelled 1956

Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M13  
**Grid Ref:** 349733, 175243

**Map Name:** National Grid

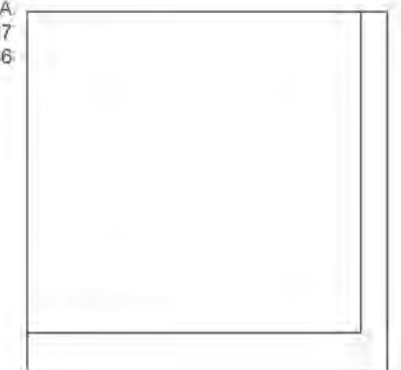
**Map date:** 1966

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1966  
 Revised 1966  
 Edition N/A  
 Copyright 1967  
 Levelled 1966



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M13  
**Grid Ref:** 349733, 175243

**Map Name:** County Series

**Map date:** 1915-1916

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

Surveyed 1915  
 Revised 1915  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

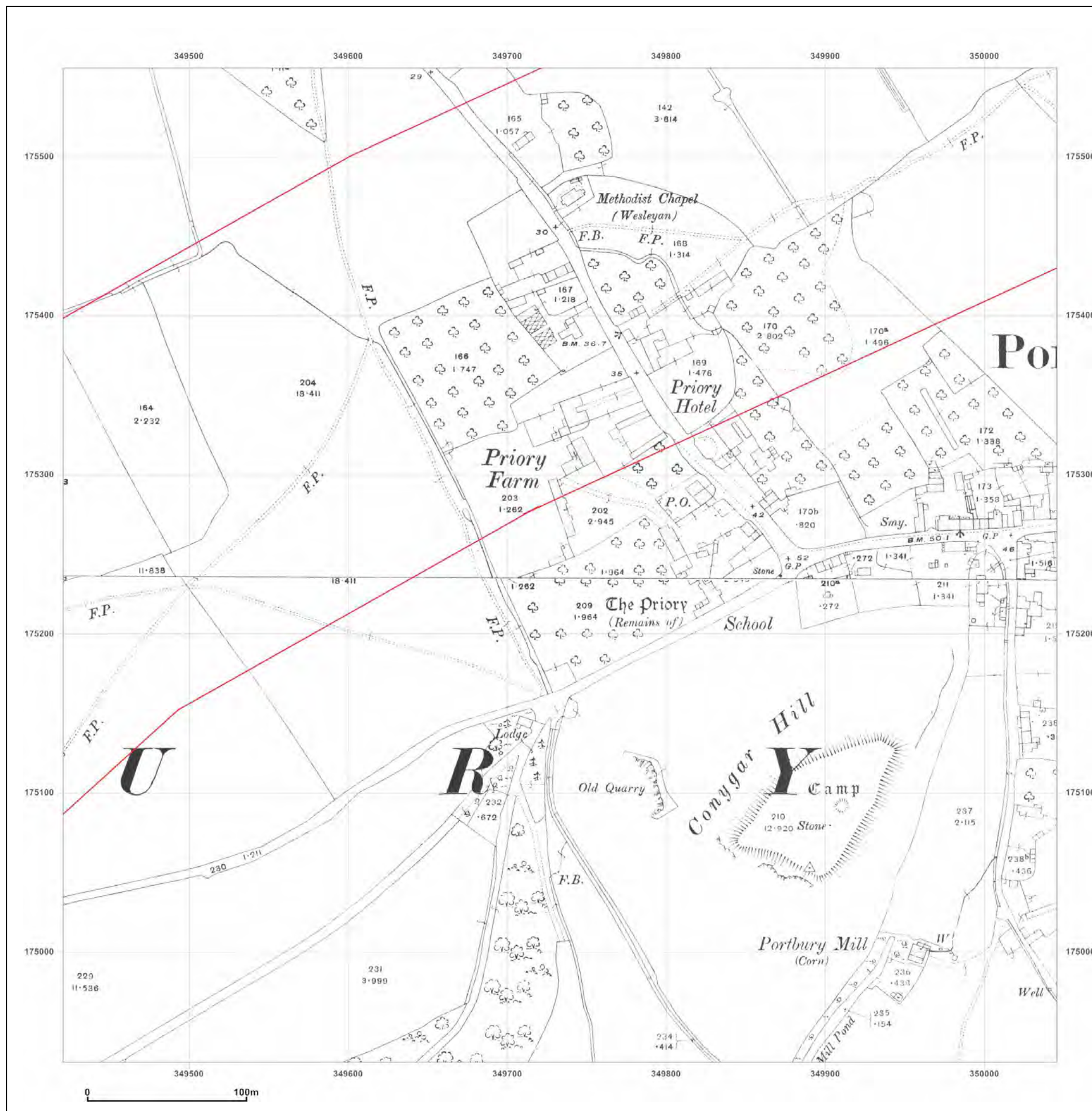


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_M13  
**Grid Ref:** 349733, 175243

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

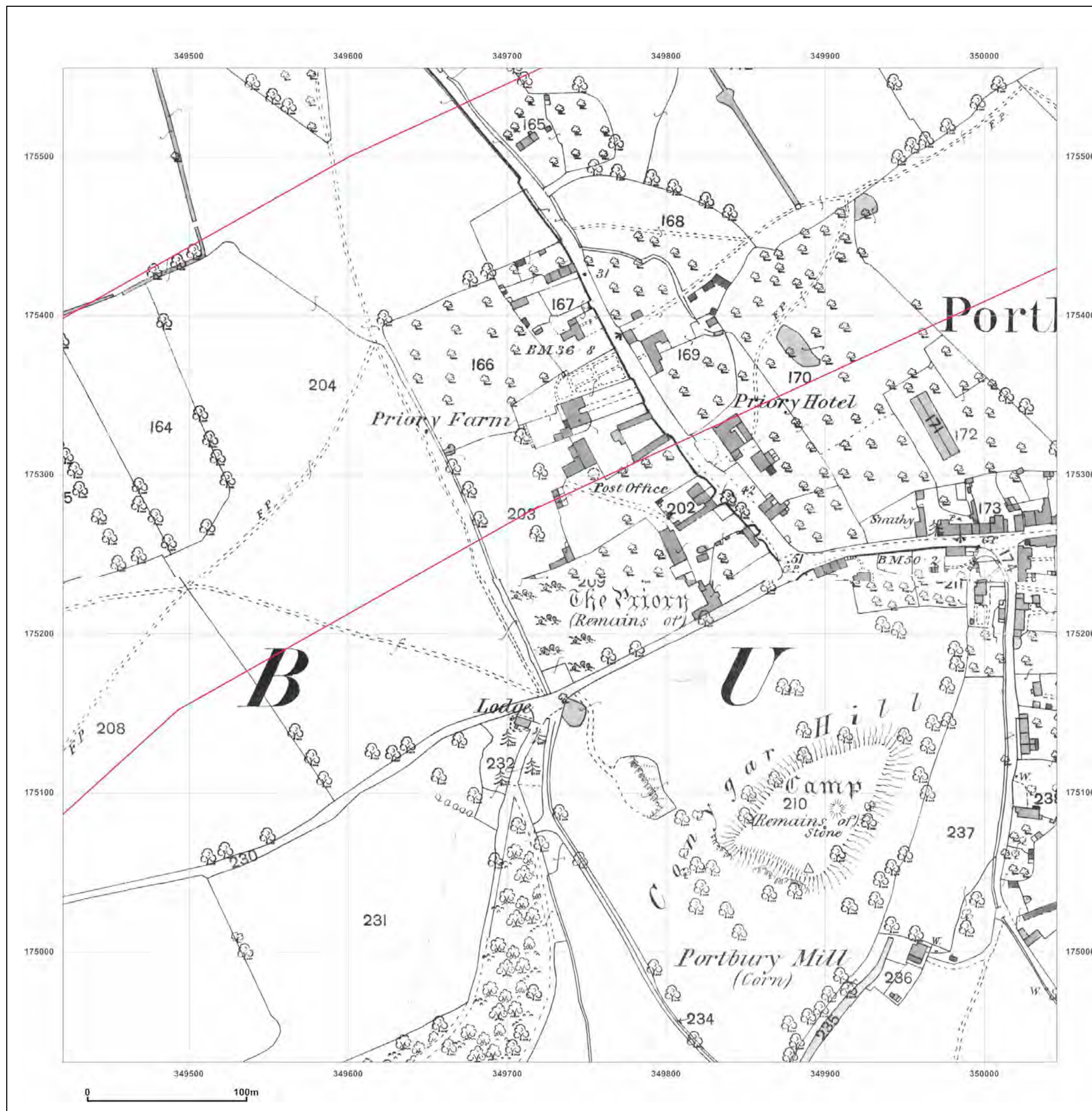


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L17  
**Grid Ref:** 348526, 172843

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

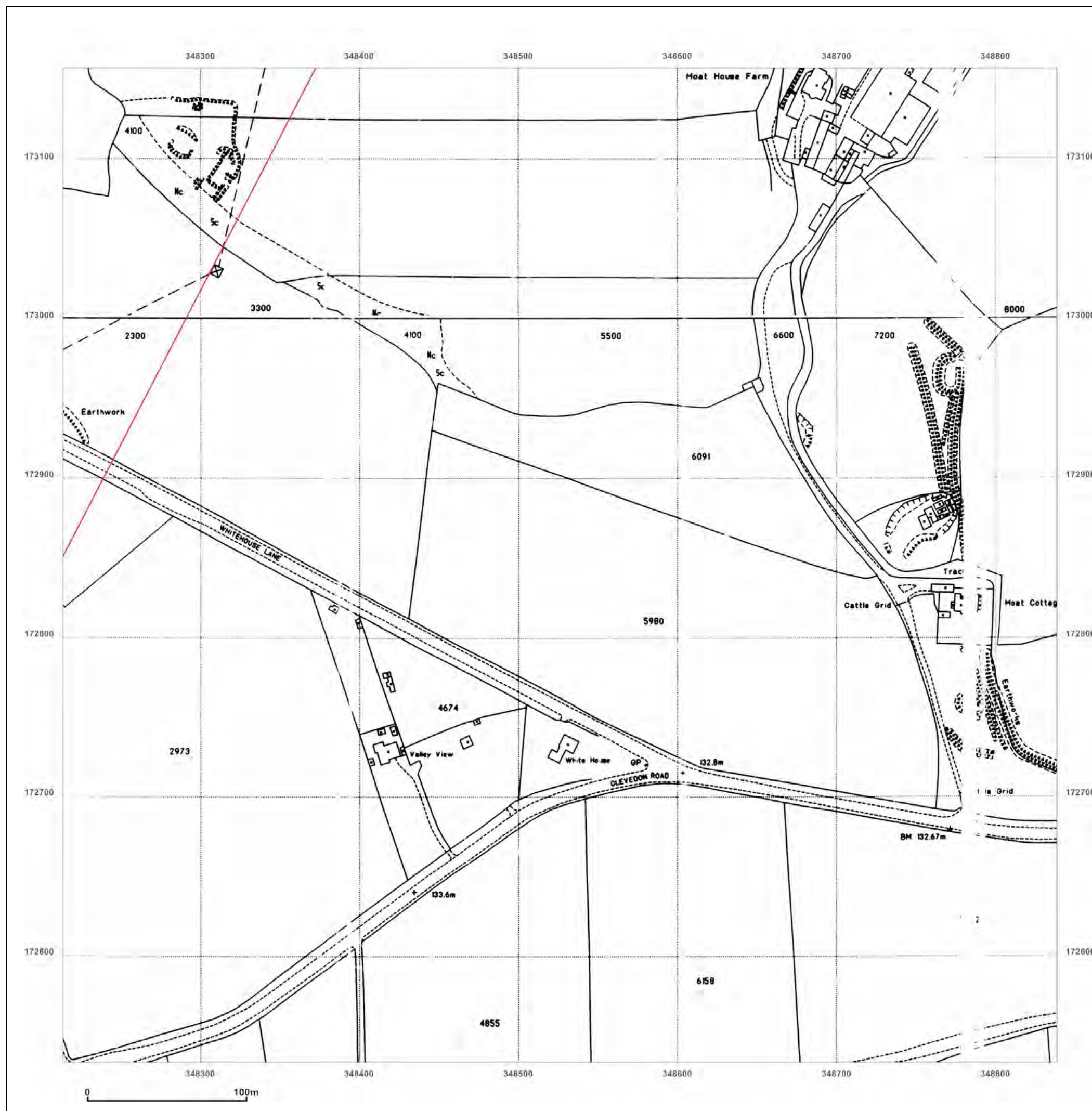


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L17  
**Grid Ref:** 348526, 172843

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

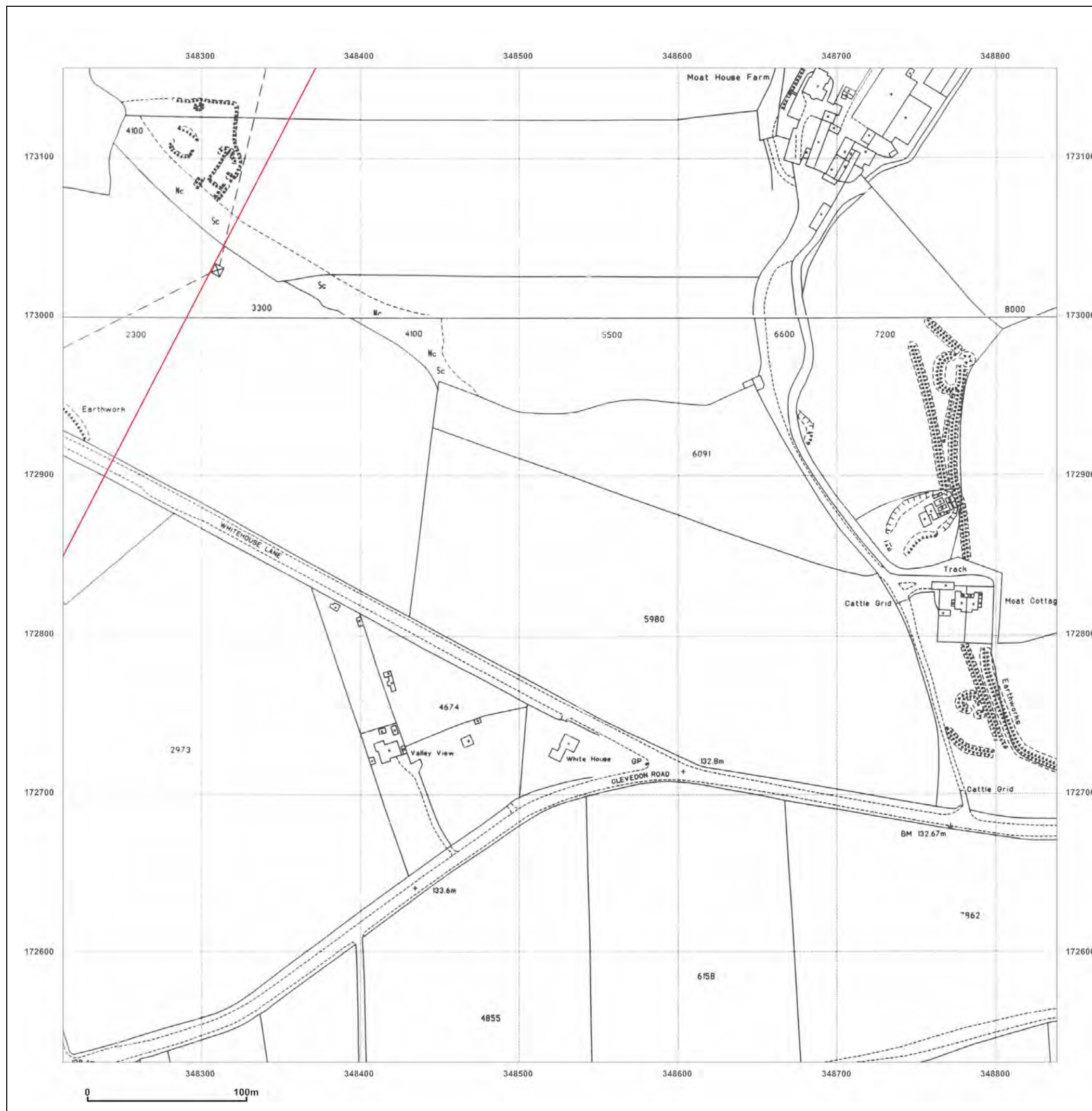


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Hinkley Project

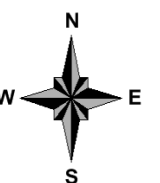
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L17  
**Grid Ref:** 348526, 172843

**Map Name:** National Grid

**Map date:** 1976-1977

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1977  
 Revised 1977  
 Edition N/A  
 Copyright 1978  
 Levelled 1966

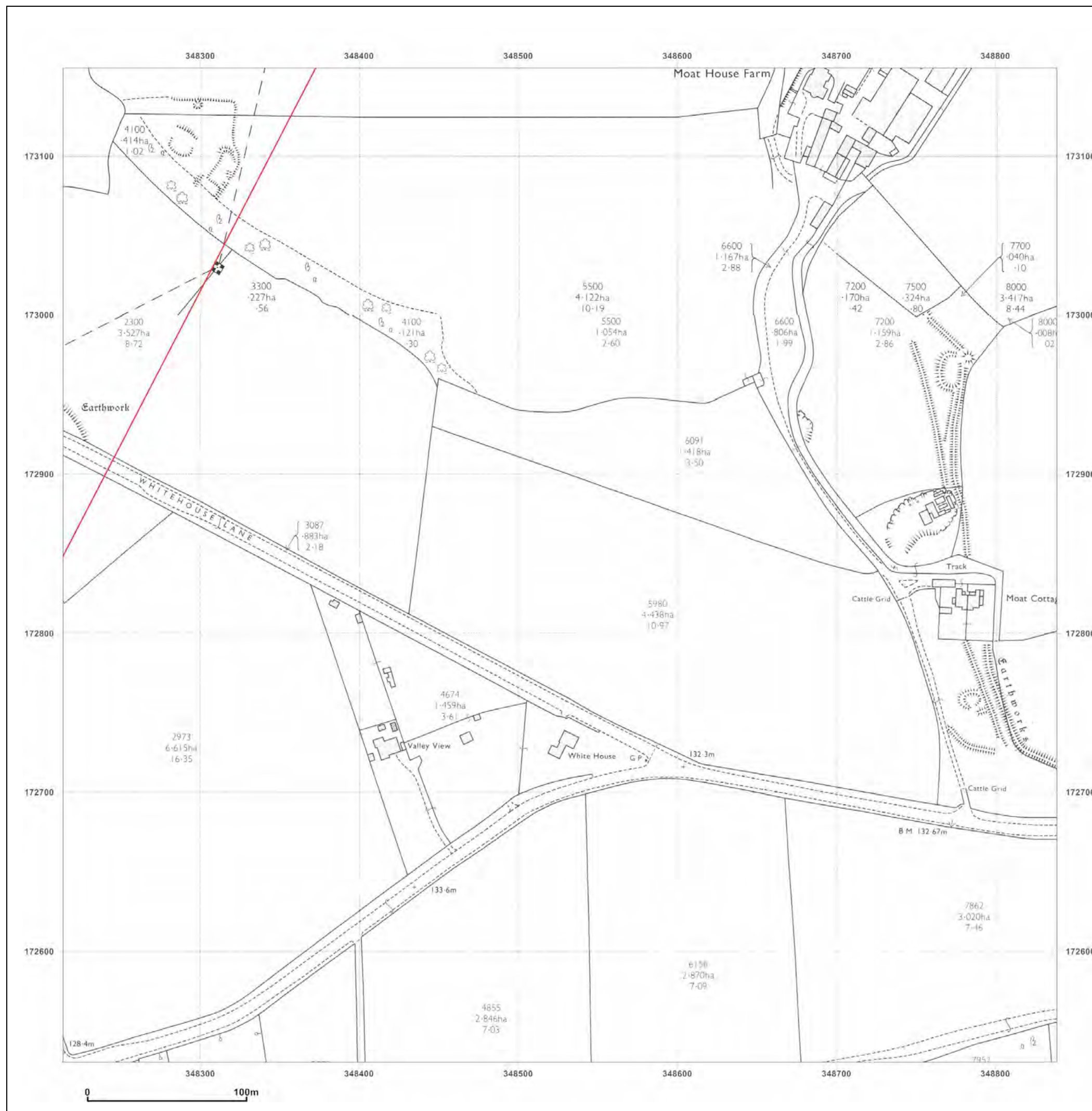


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L17  
**Grid Ref:** 348526, 172843

**Map Name:** County Series

**Map date:** 1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

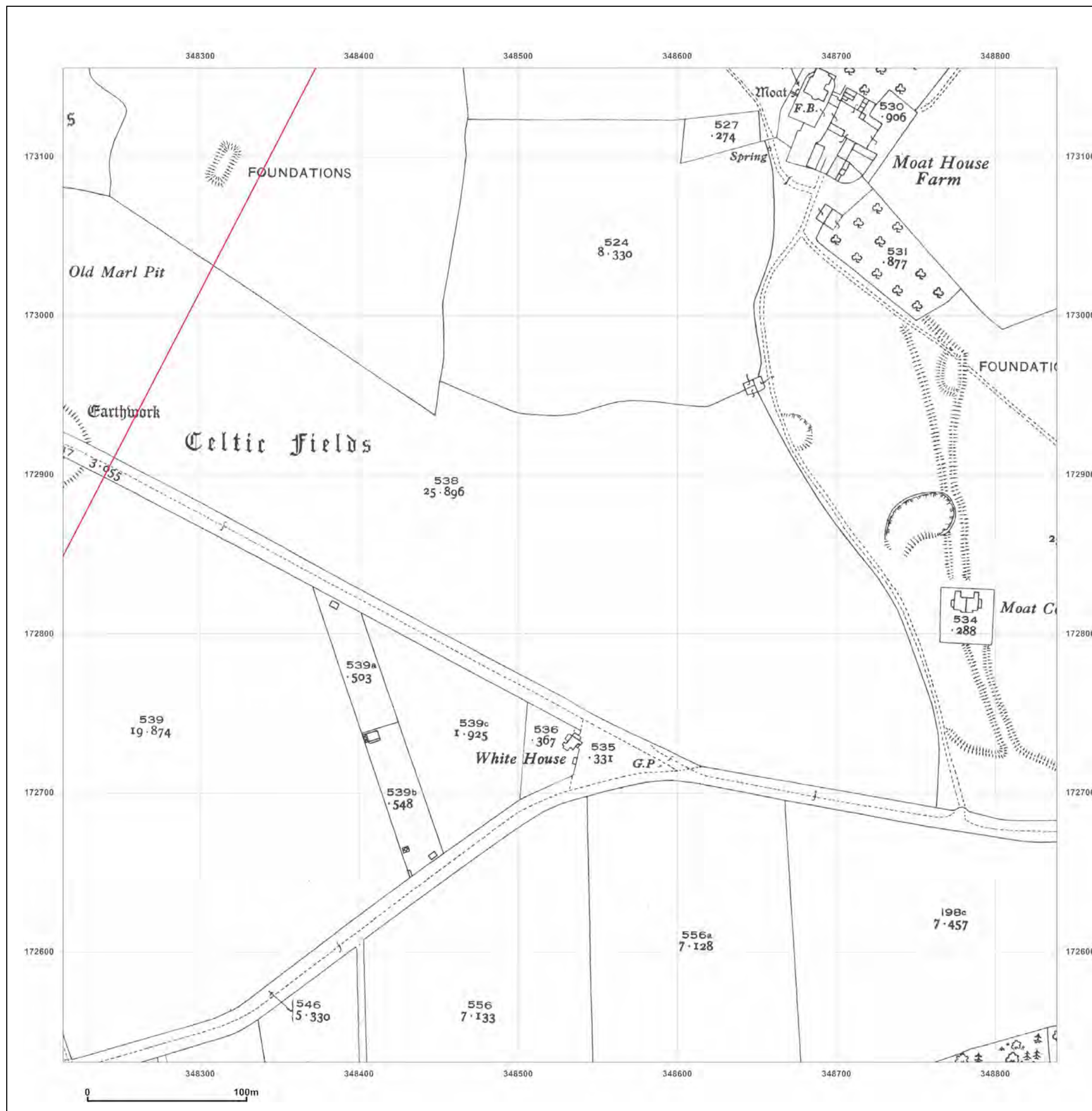


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L17  
**Grid Ref:** 348526, 172843

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

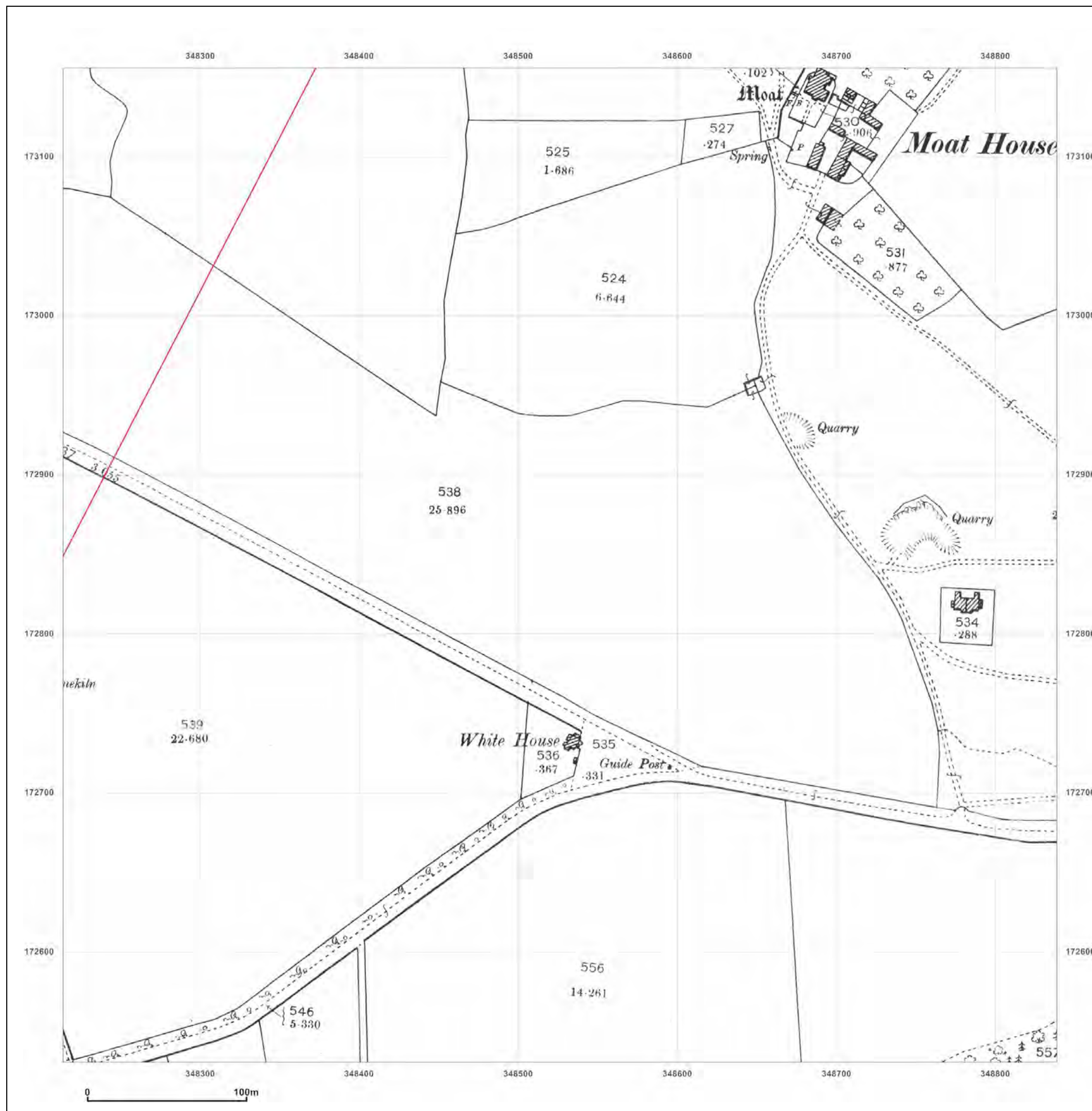


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L17  
**Grid Ref:** 348526, 172843

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

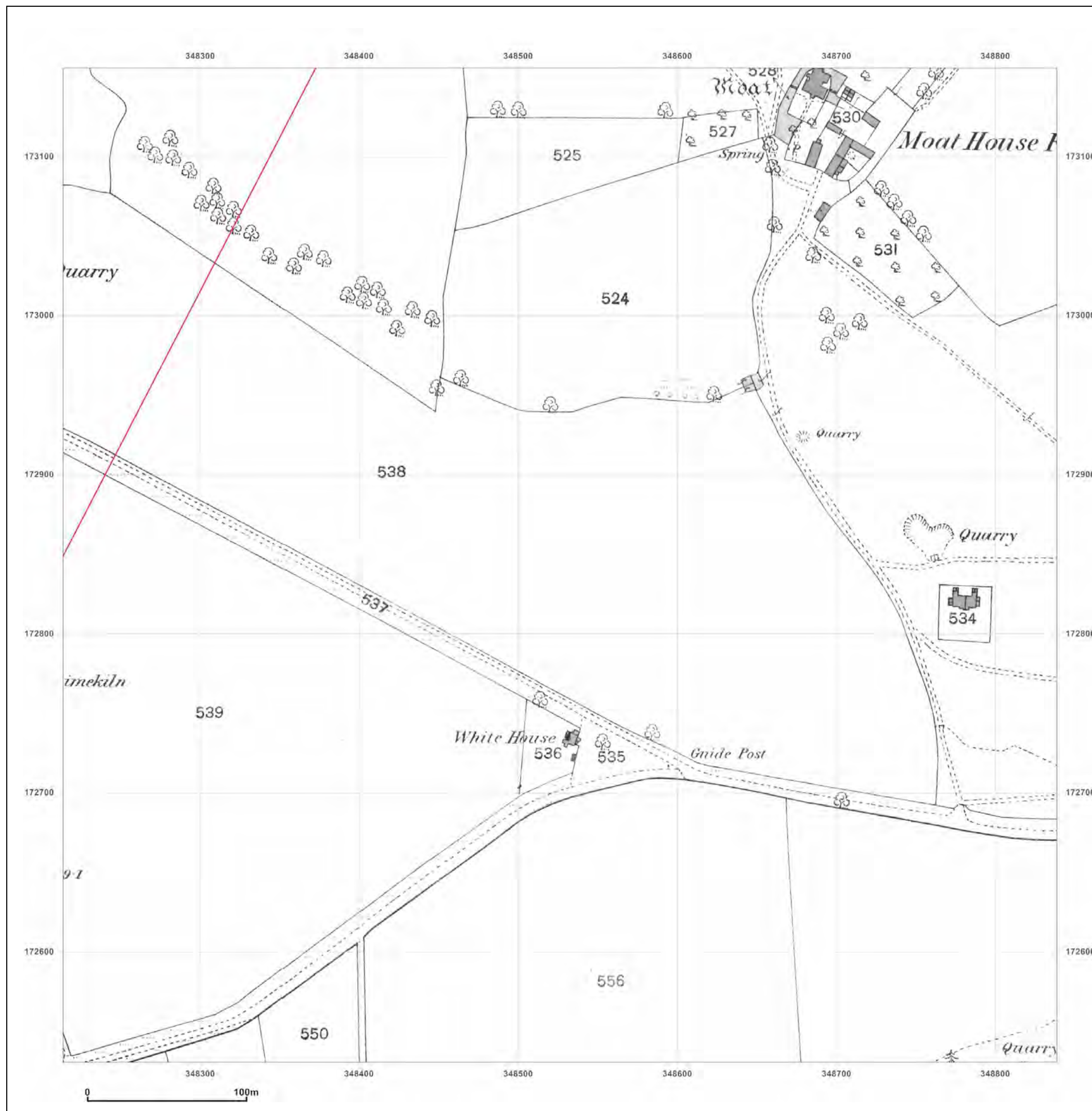


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Hinkley Project

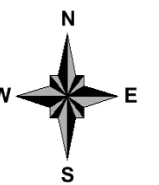
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L16  
**Grid Ref:** 348472, 173444

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

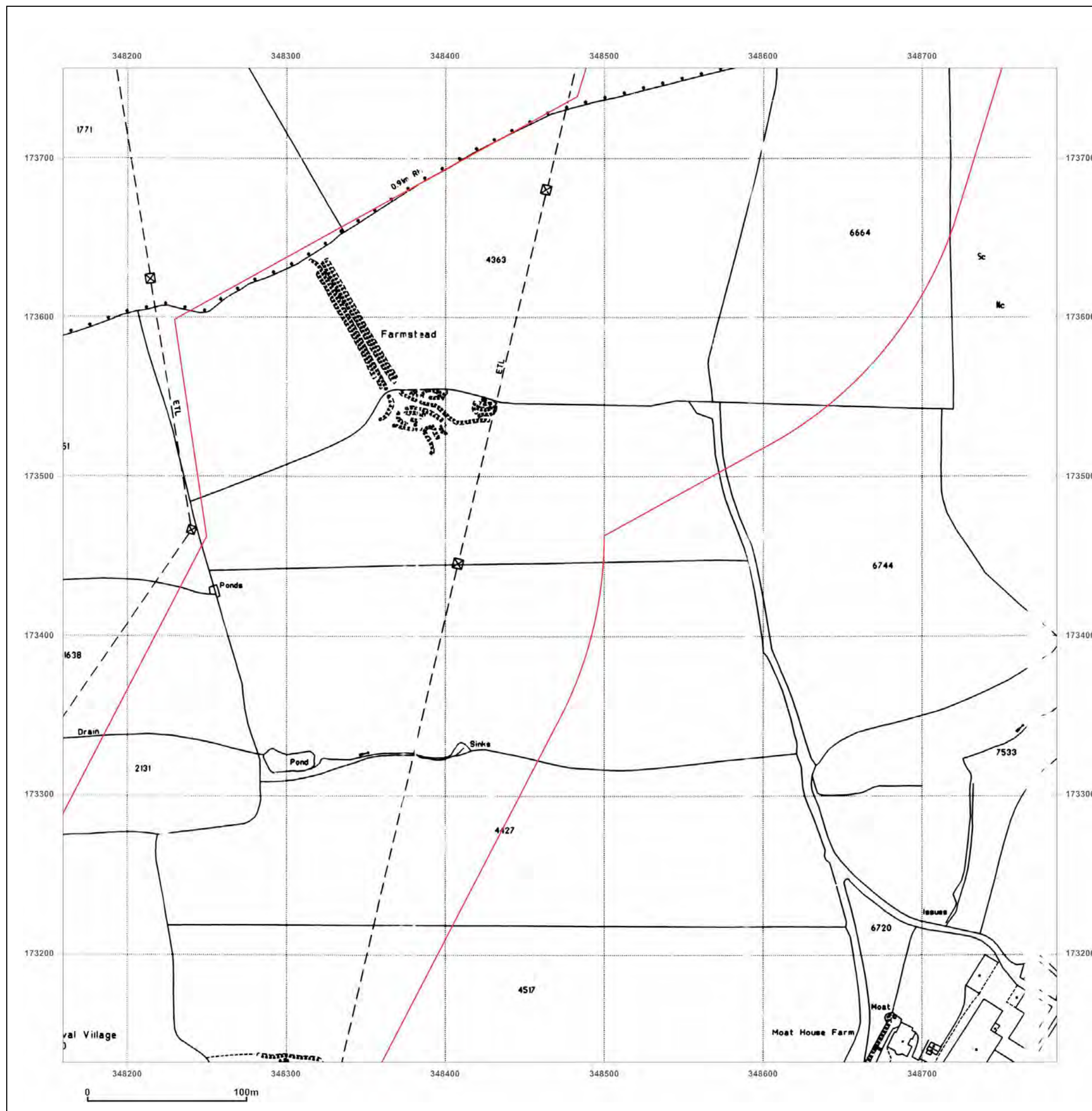


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L16  
**Grid Ref:** 348472, 173444

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

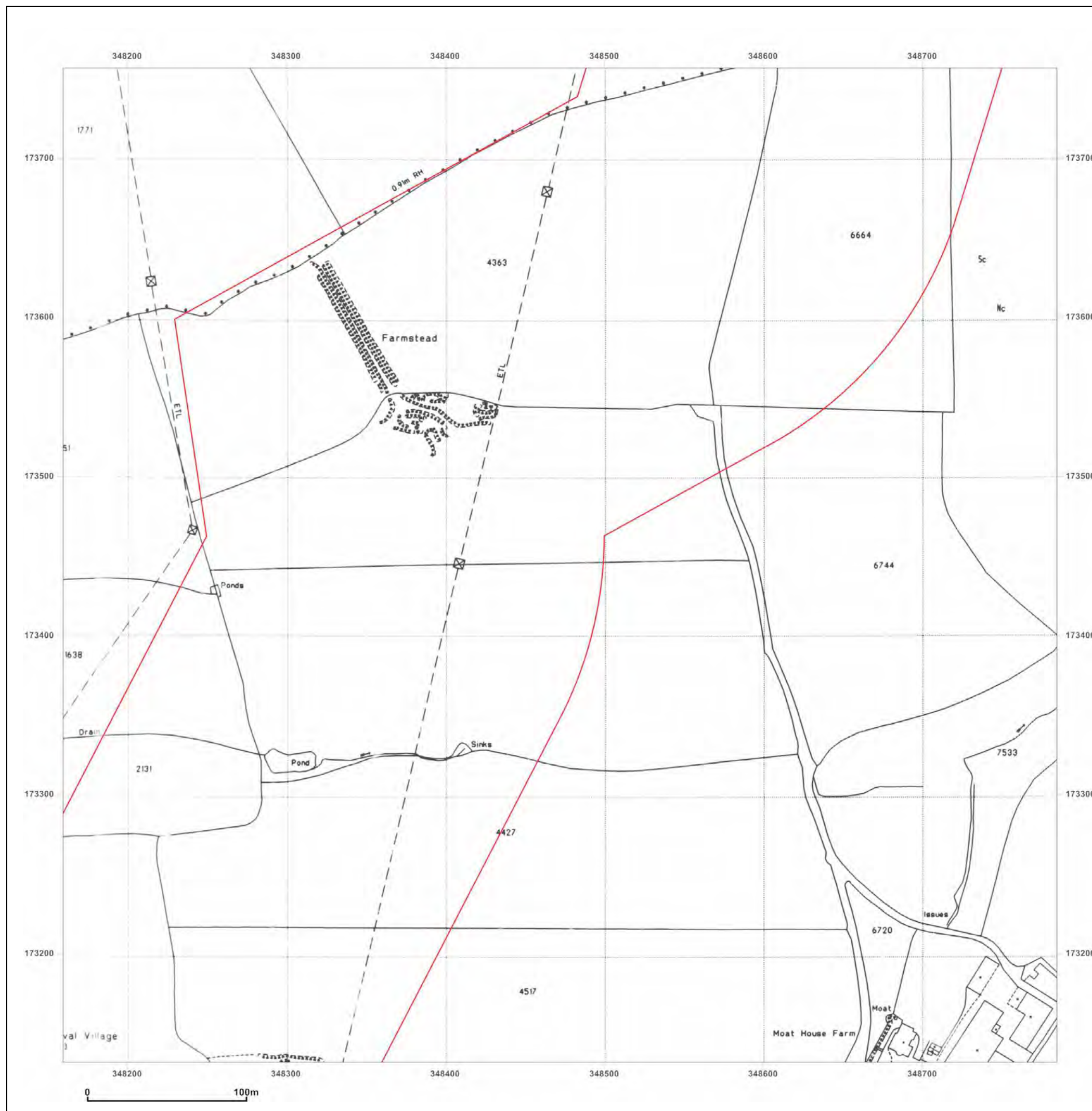


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L16  
**Grid Ref:** 348472, 173444

**Map Name:** National Grid

**Map date:** 1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1978  
 Edition N/A  
 Copyright 1977  
 Levelled 1986

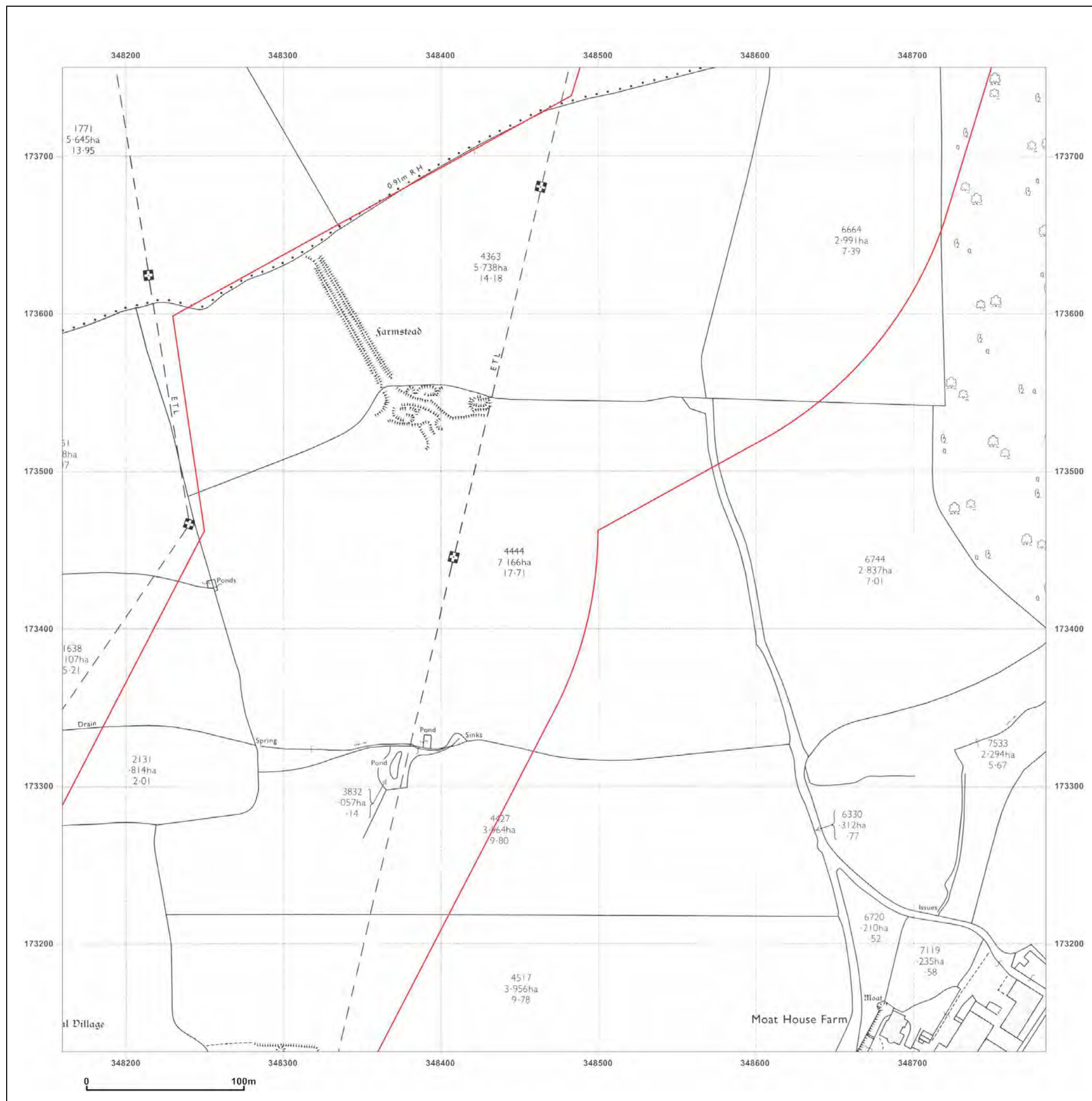


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L16  
**Grid Ref:** 348472, 173444

**Map Name:** County Series

**Map date:** 1931-1932

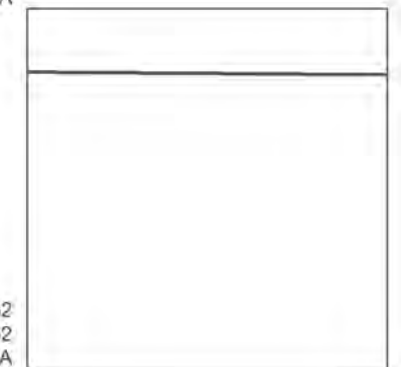
**Scale:** 1:2,500

**Printed at:** 1:2,500



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

Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

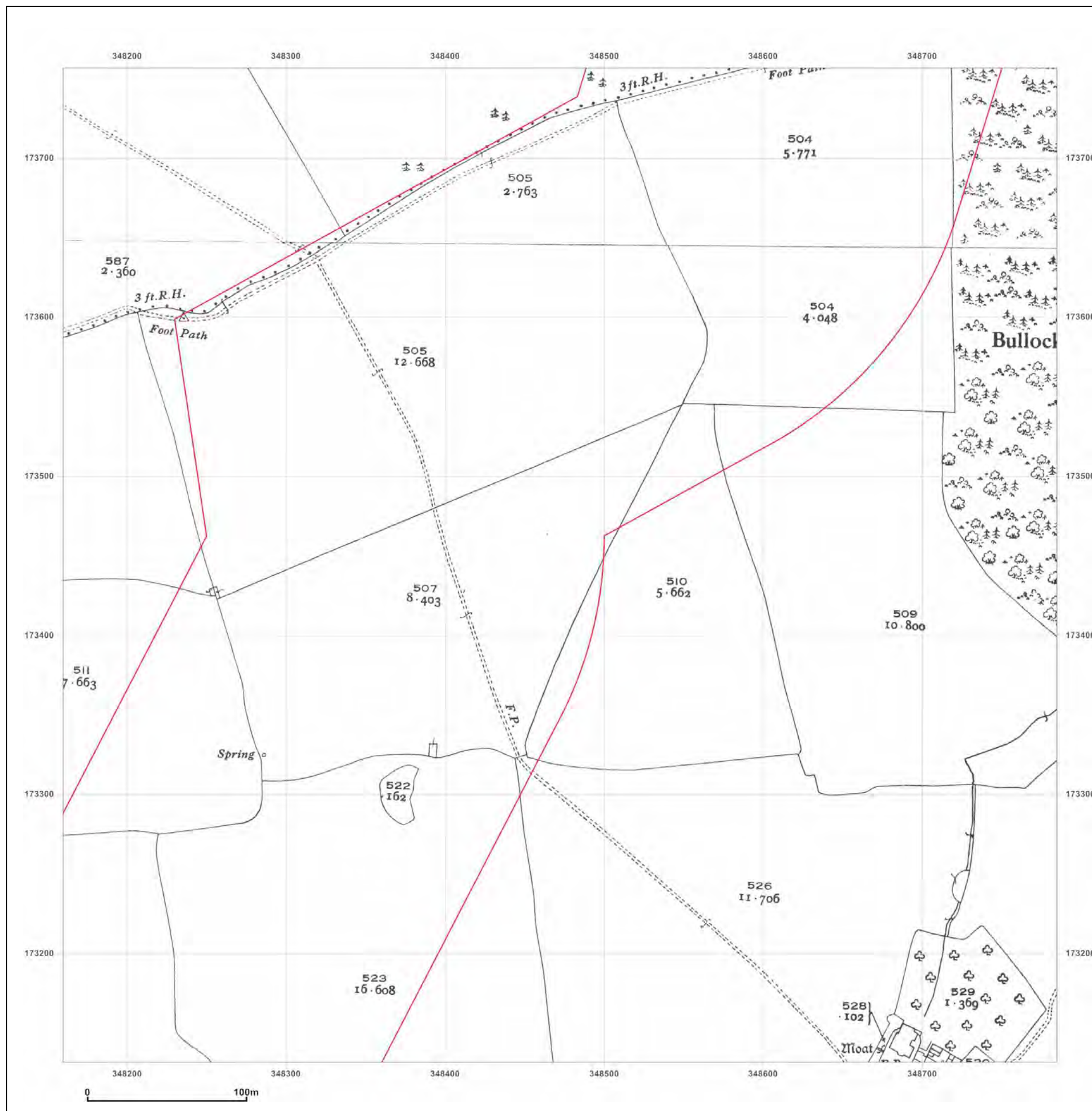


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#### Site Details:

Hinkley Project

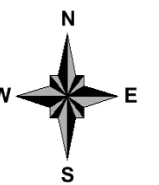
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**Grid Ref:** 348472, 173444

**Map Name:** County Series

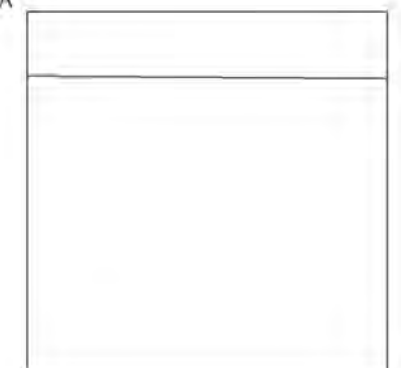
**Map date:** 1915

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1915  
 Revised 1915  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

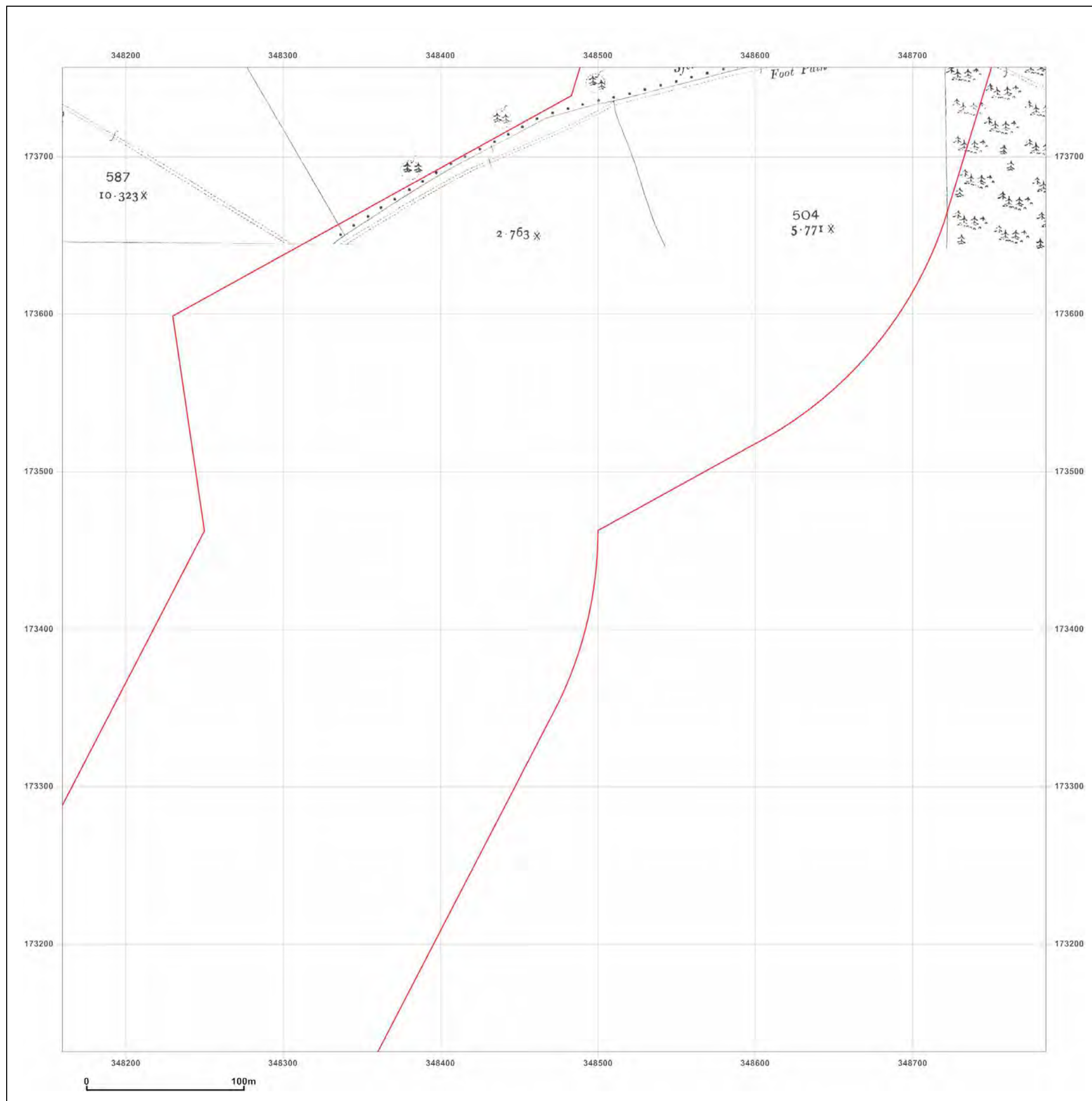


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L16  
**Grid Ref:** 348472, 173444

**Map Name:** County Series

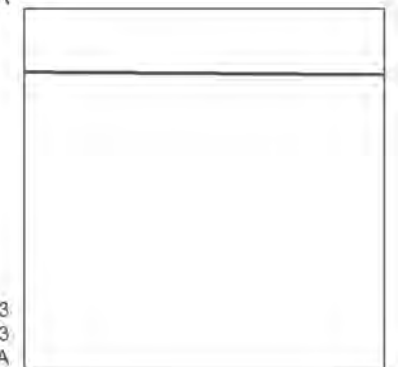
**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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



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

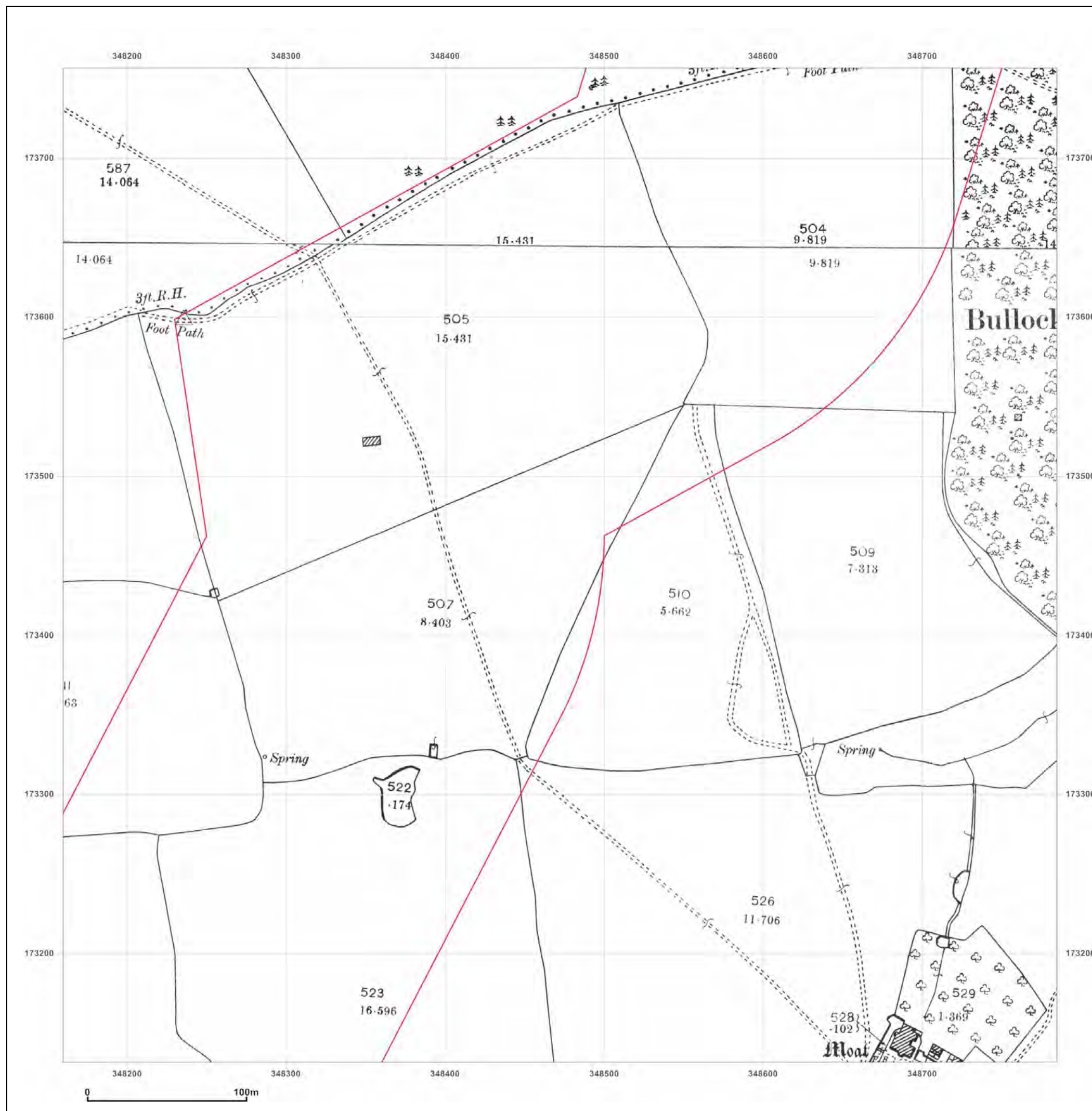


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L16  
**Grid Ref:** 348472, 173444

**Map Name:** County Series

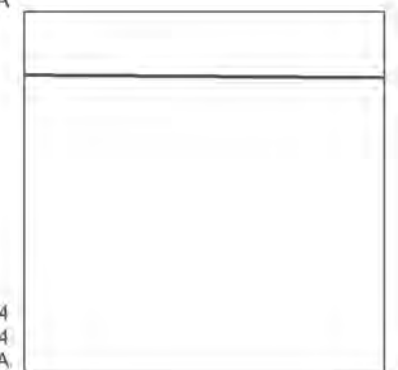
**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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



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

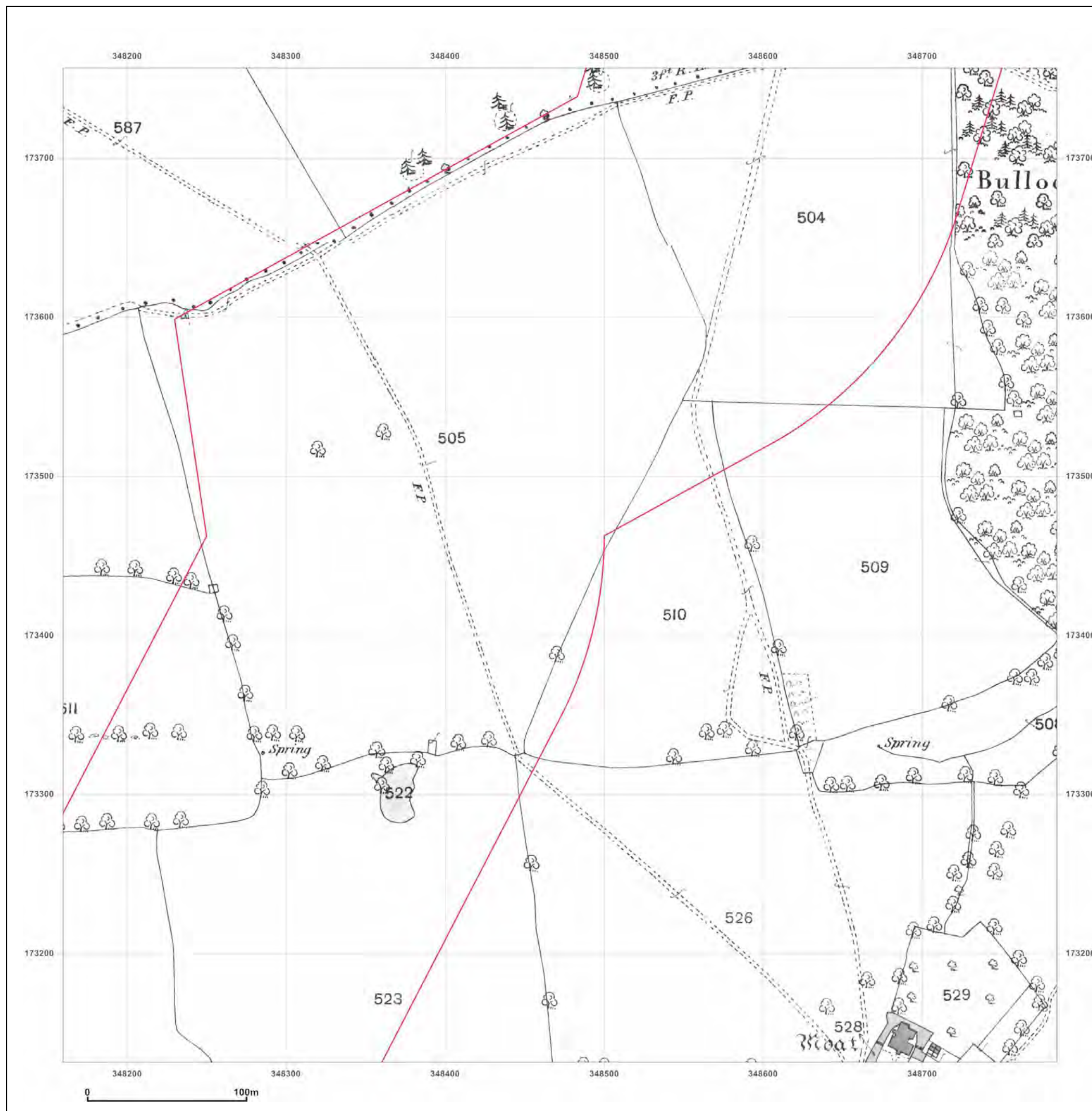


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L15  
**Grid Ref:** 348675, 174044

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

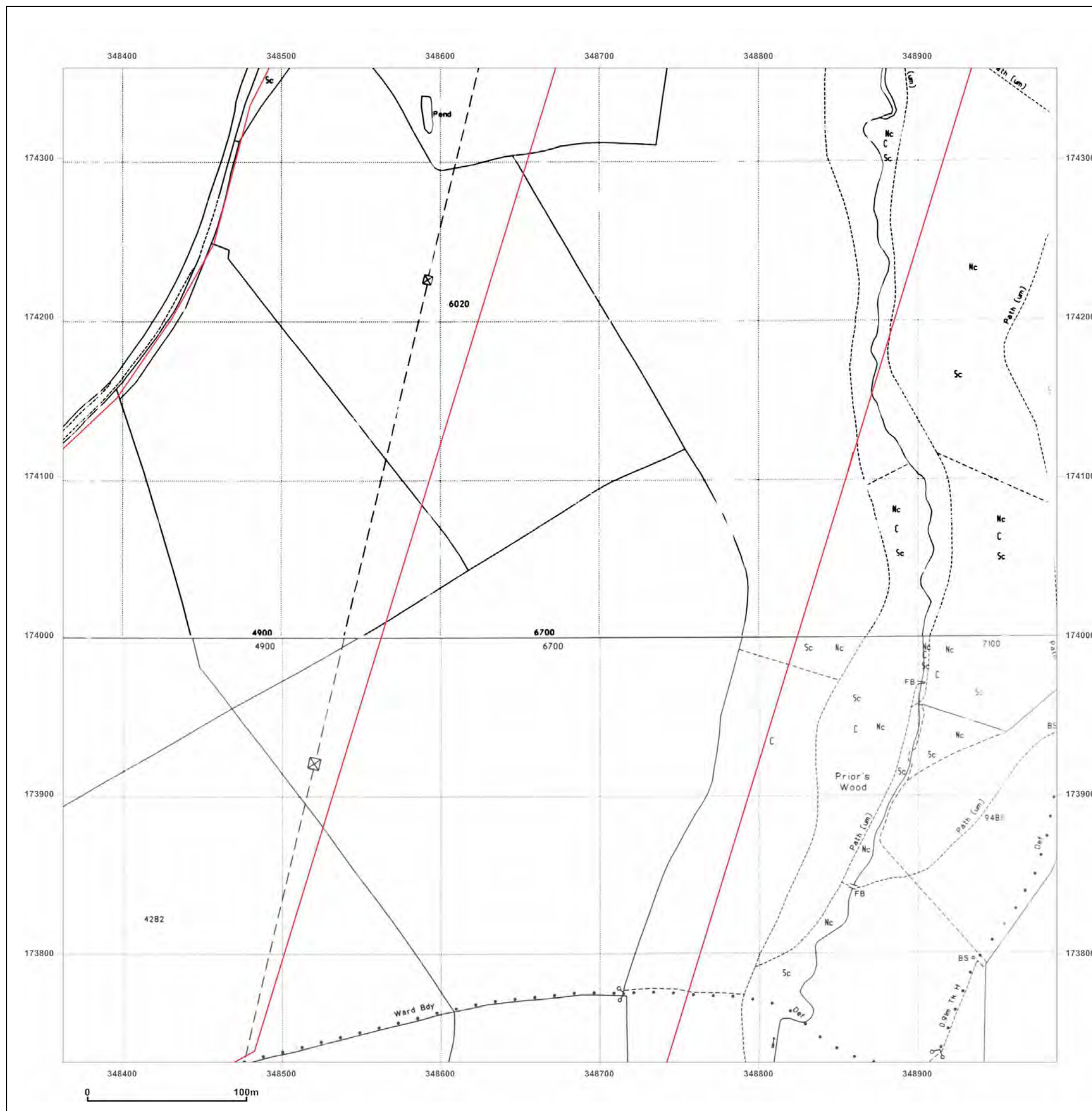


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**Site Details:**

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L15  
**Grid Ref:** 348675, 174044

**Map Name:** National Grid

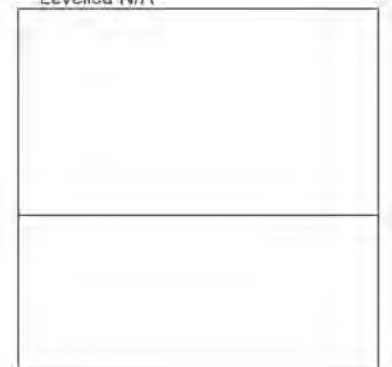
**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

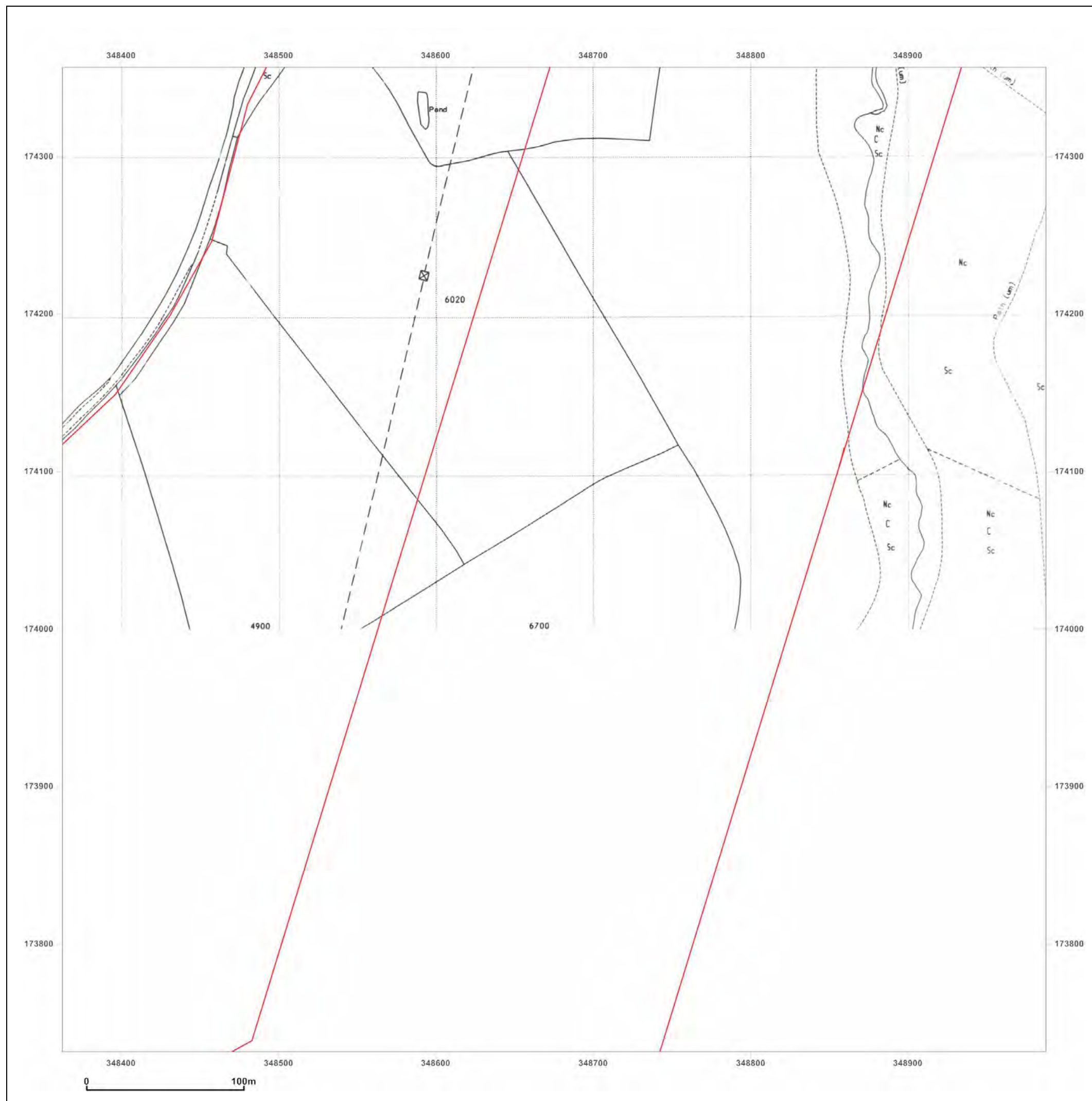


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Hinkley Project

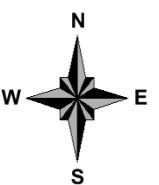
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**Map Name:** National Grid

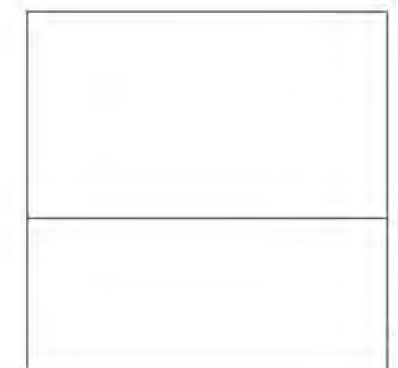
**Map date:** 1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

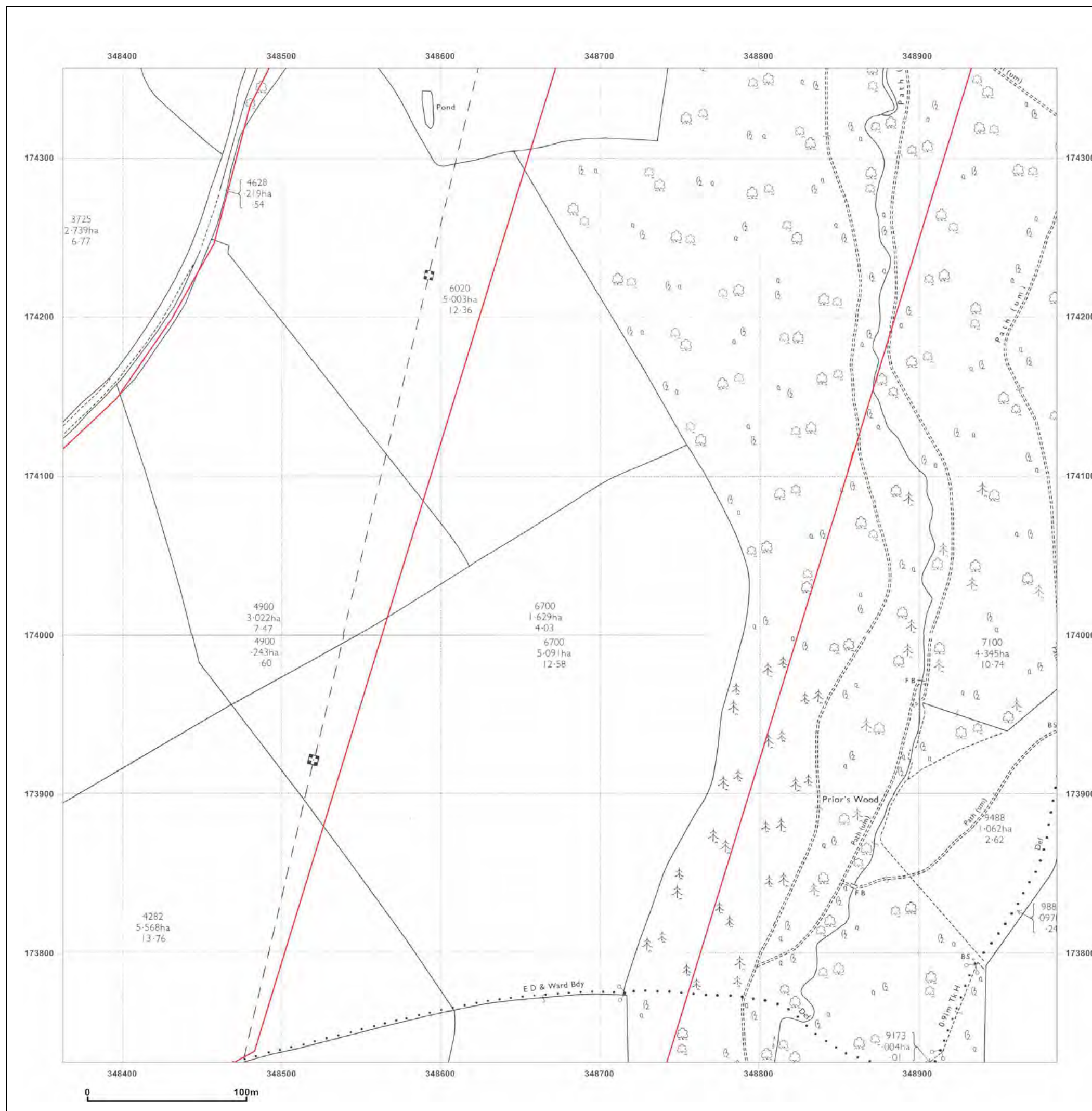


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L15  
**Grid Ref:** 348675, 174044

**Map Name:** County Series

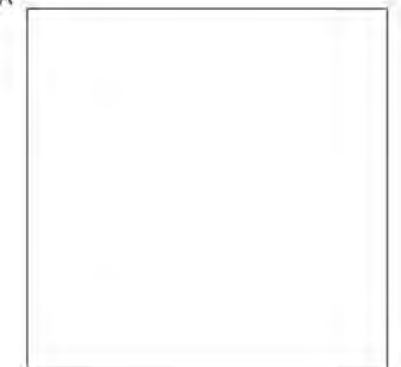
**Map date:** 1931

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

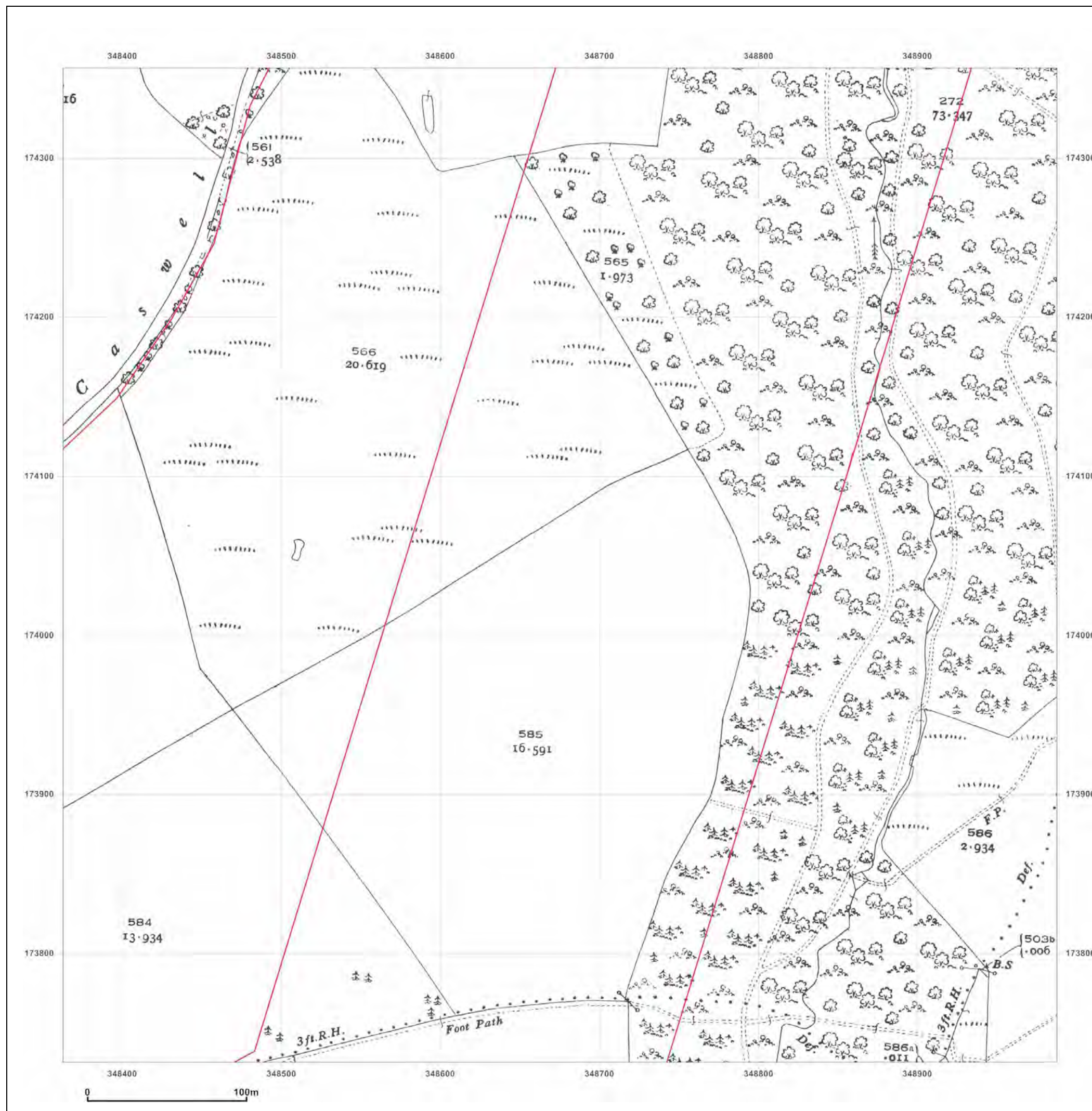


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L15  
**Grid Ref:** 348675, 174044

**Map Name:** County Series

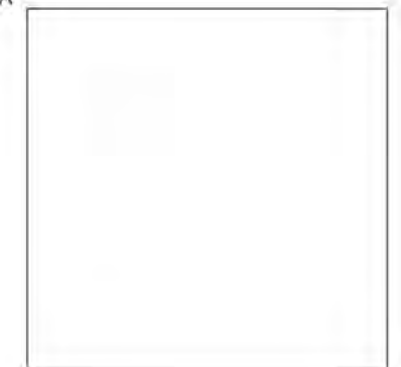
**Map date:** 1915

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1915  
 Revised 1915  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

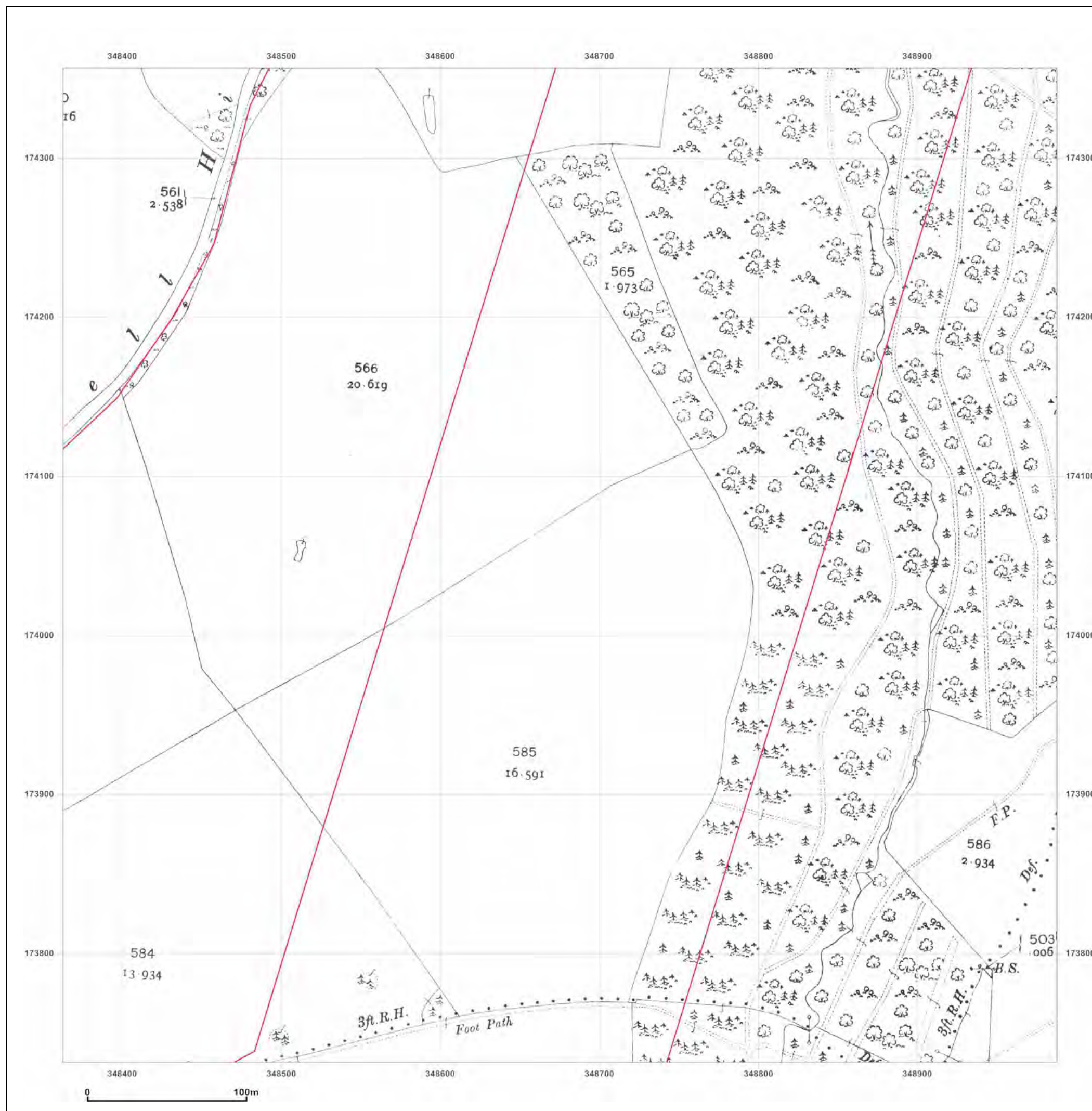


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L15  
**Grid Ref:** 348675, 174044

**Map Name:** County Series

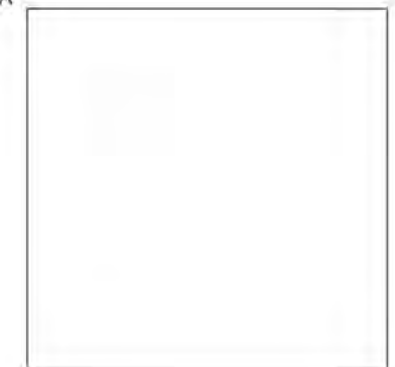
**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

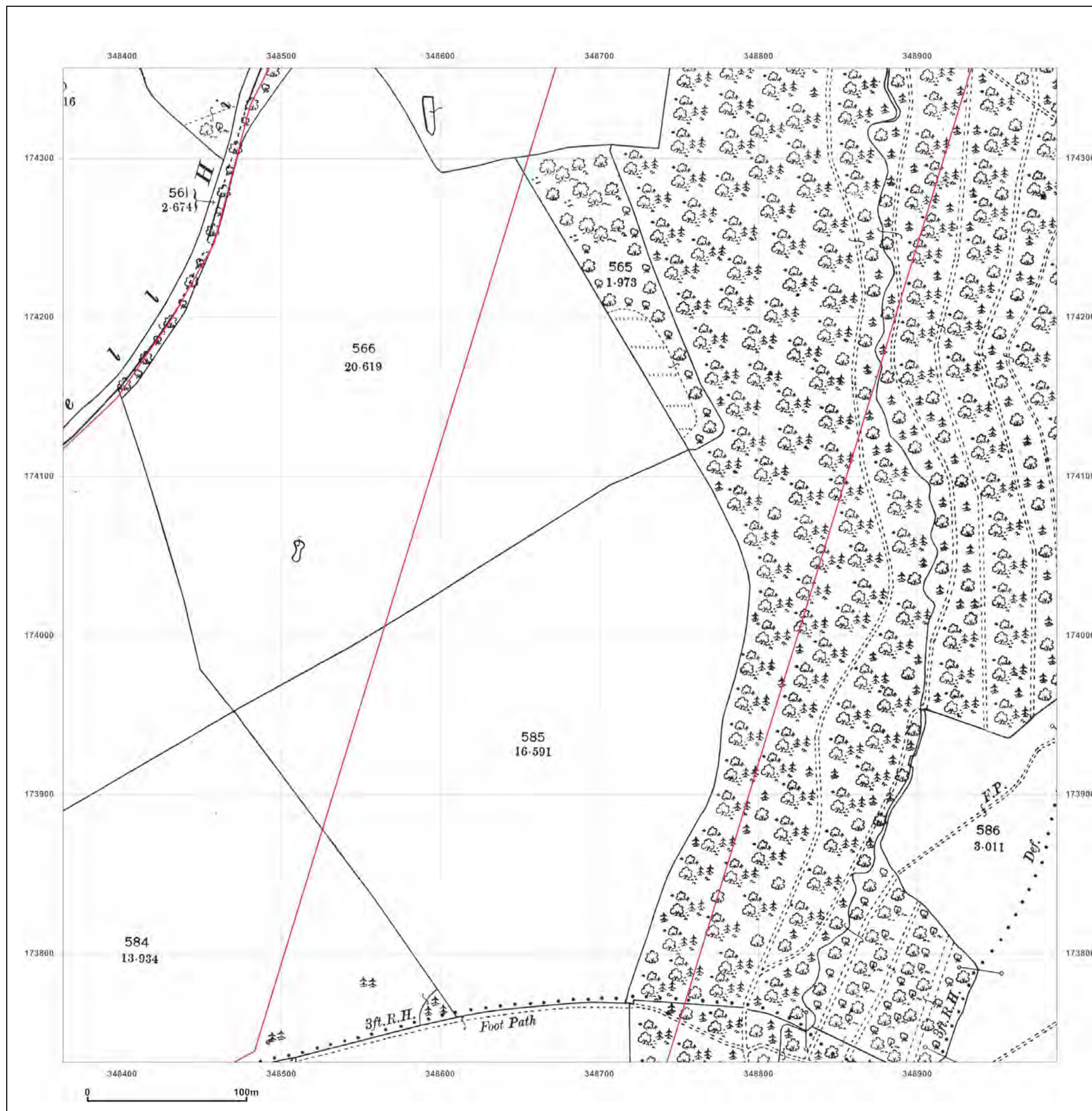


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L15  
**Grid Ref:** 348675, 174044

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

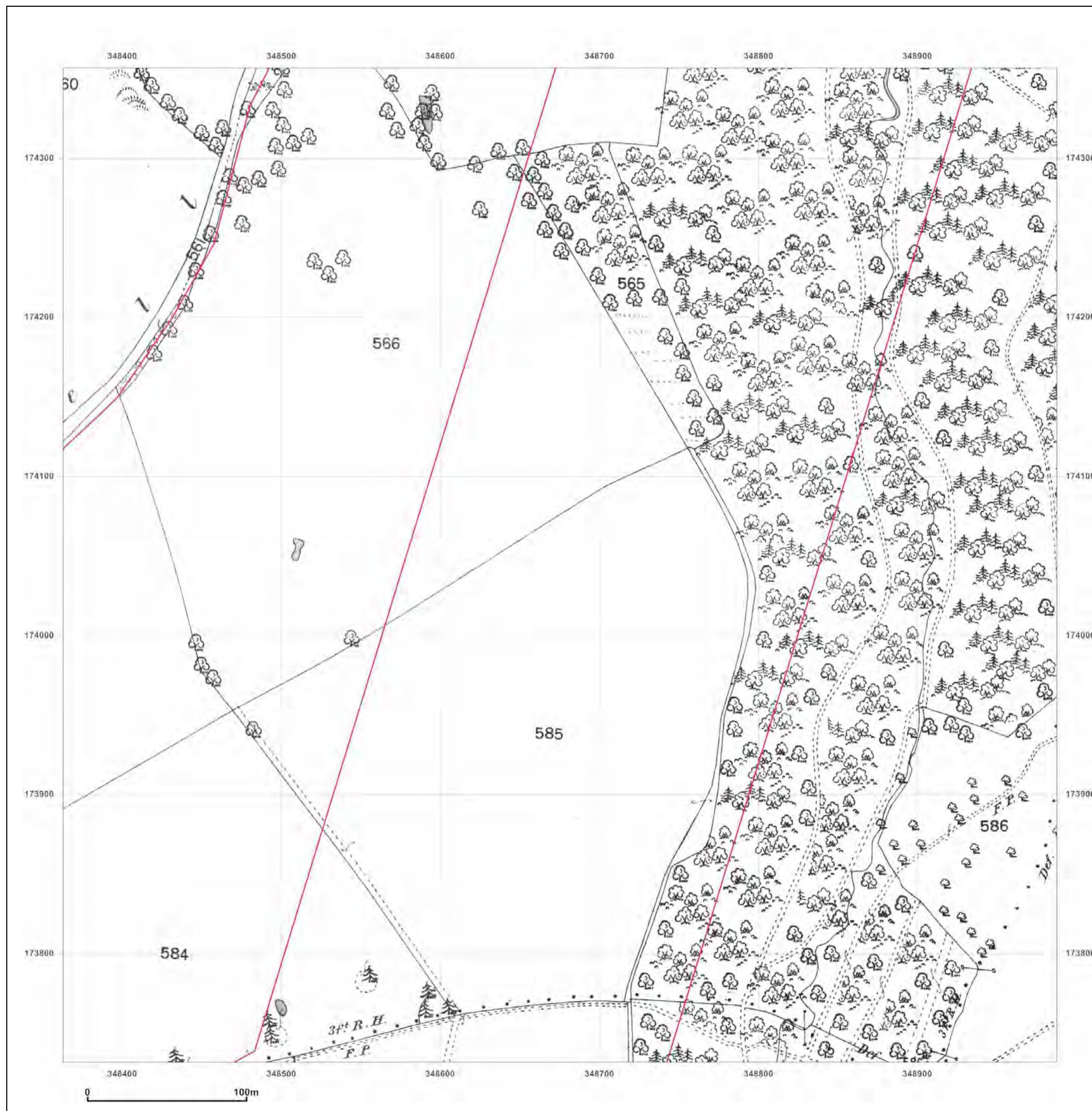


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L14  
**Grid Ref:** 348422, 174644

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

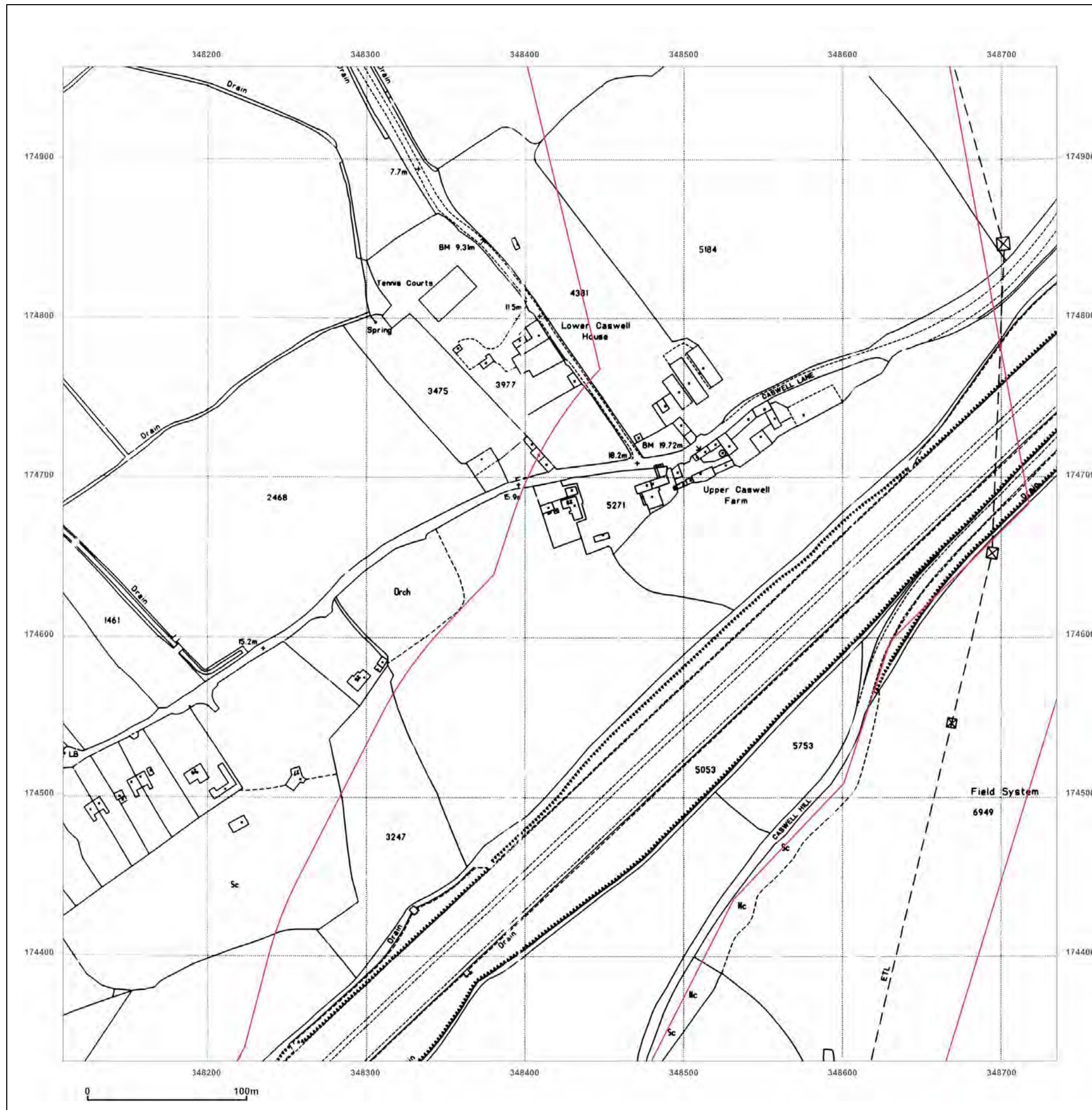


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L14  
**Grid Ref:** 348422, 174644

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

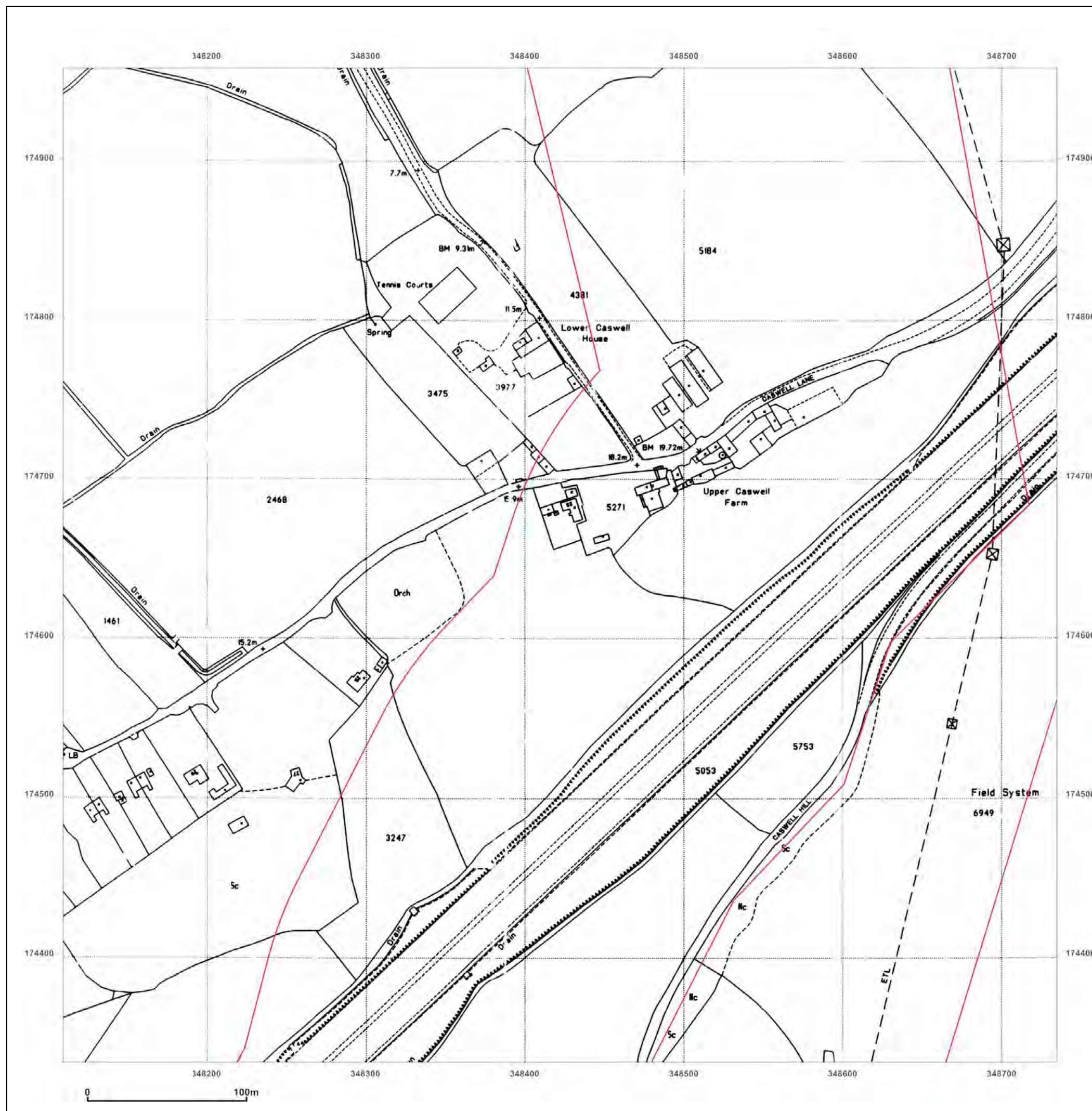


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L14  
**Grid Ref:** 348422, 174644

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

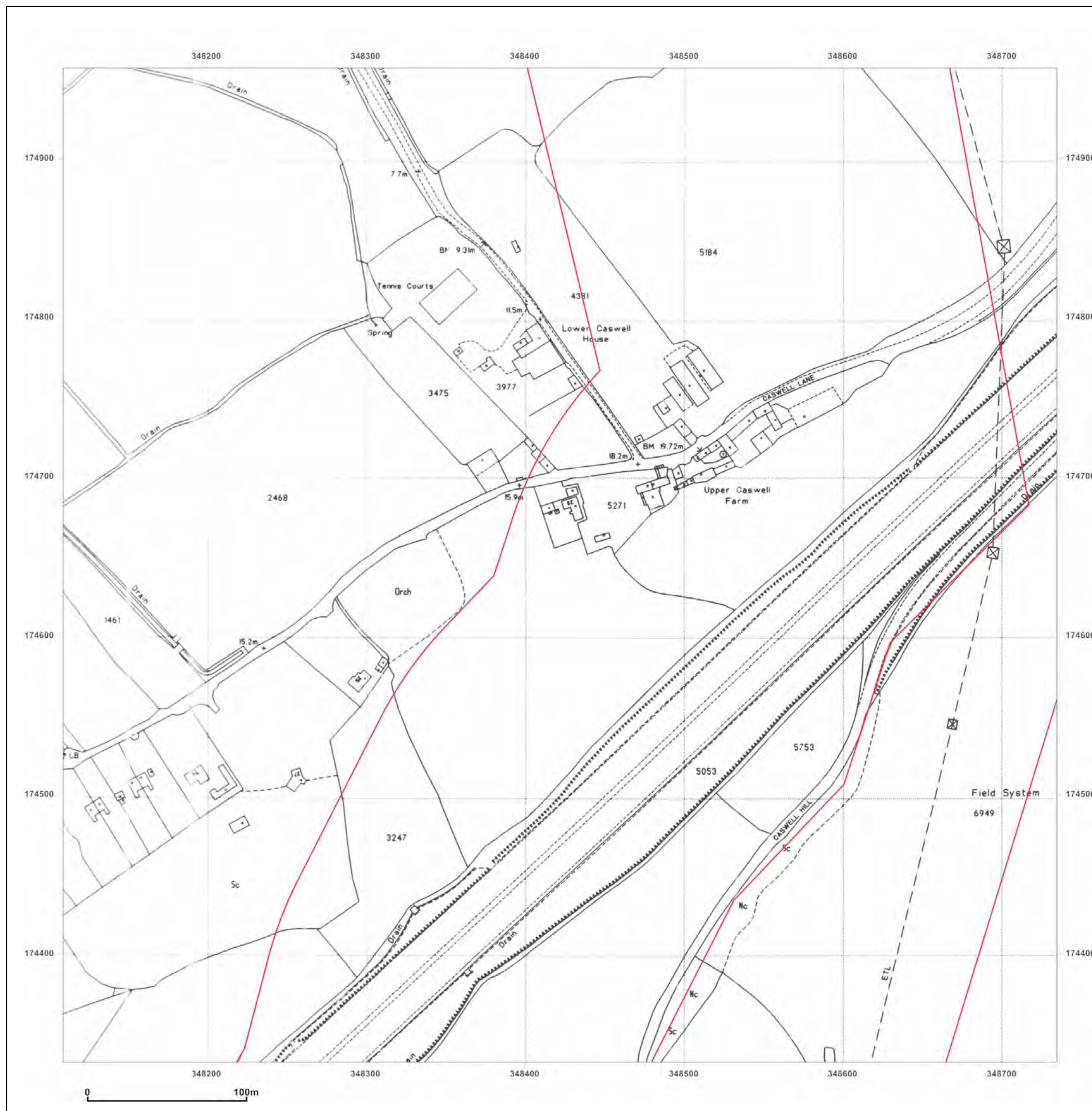


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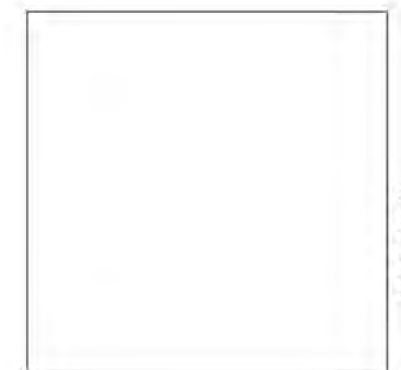
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**Map Name:** National Grid

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Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

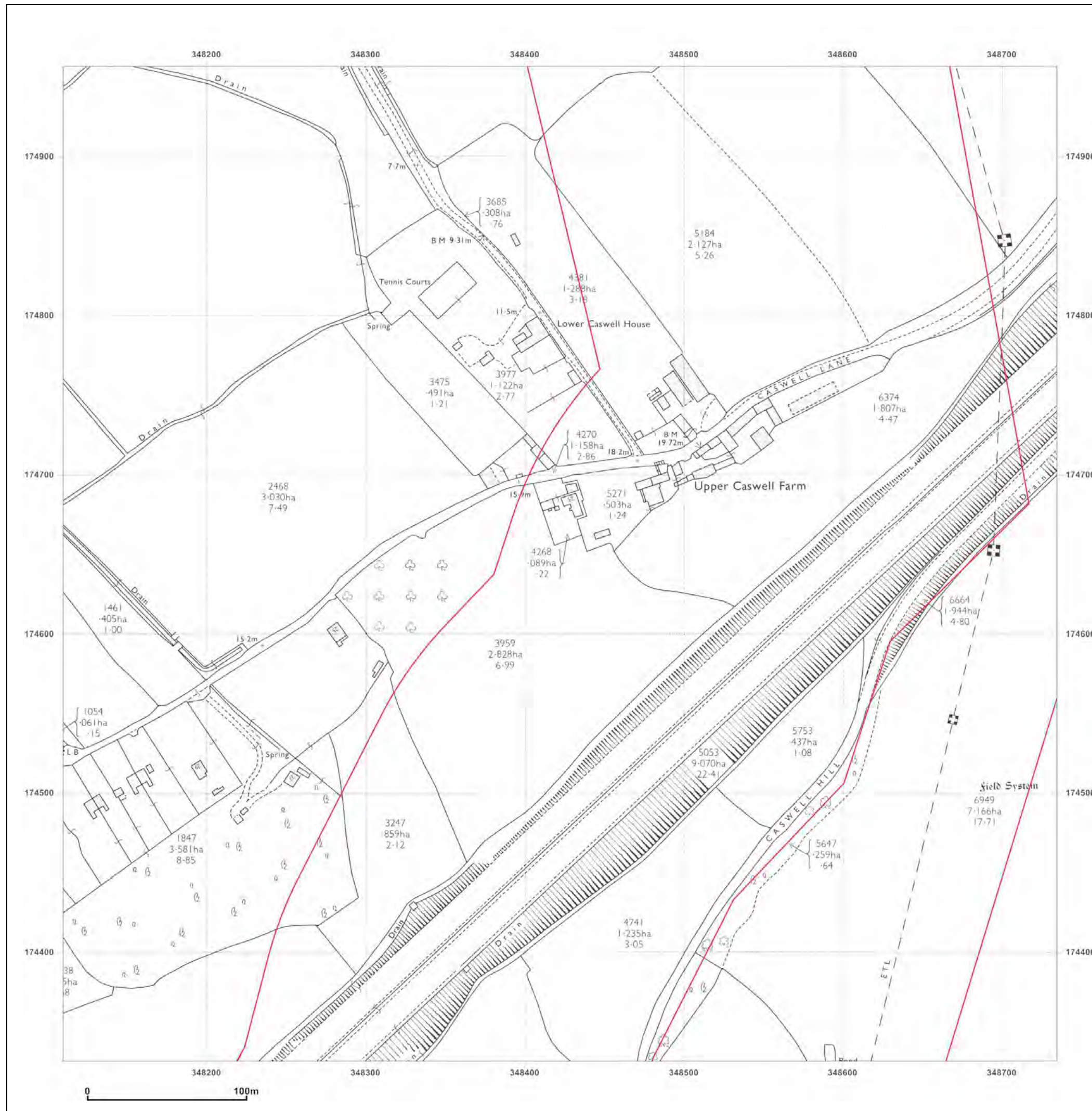


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L14  
**Grid Ref:** 348422, 174644

**Map Name:** County Series

**Map date:** 1931

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

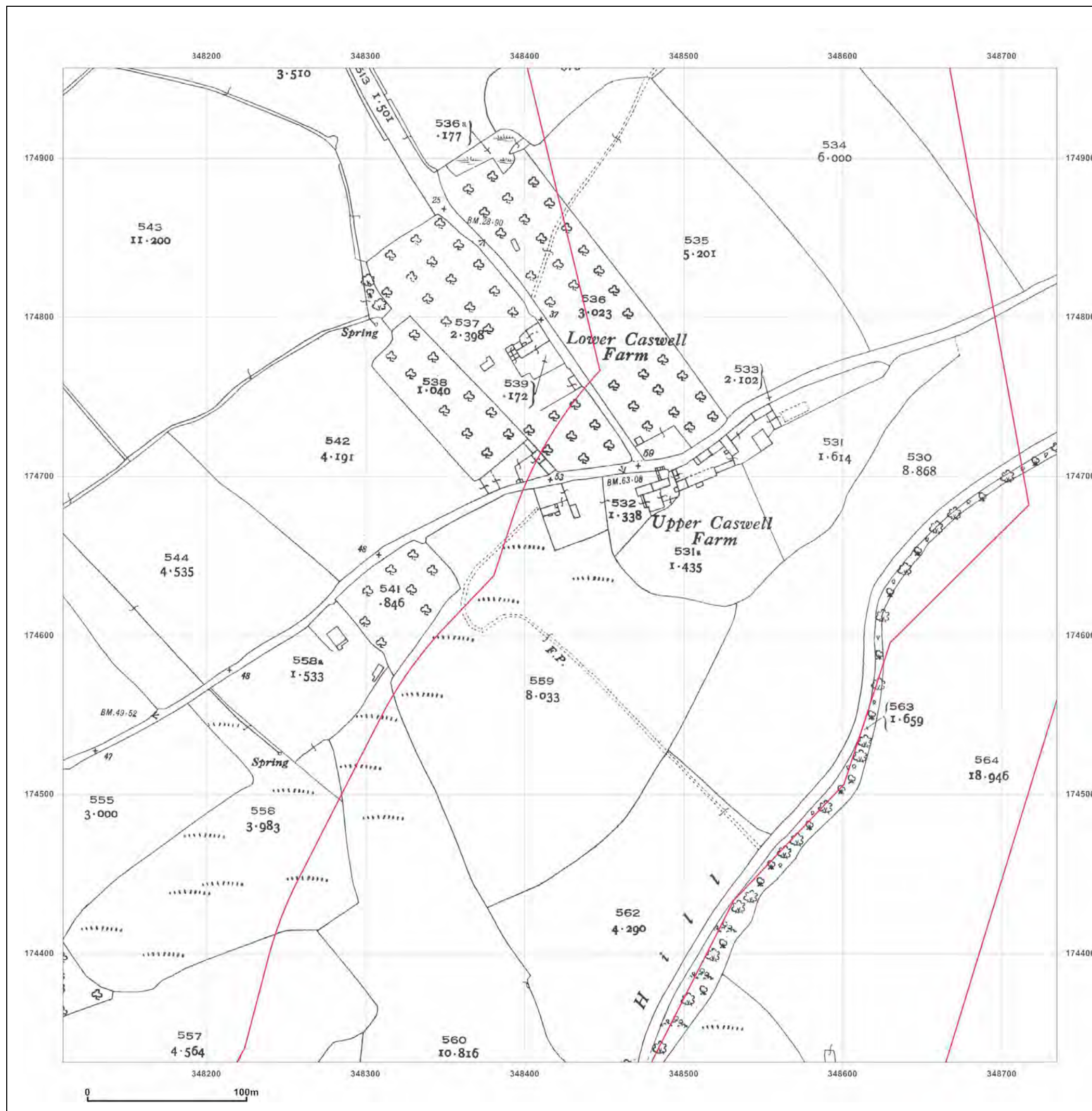


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L14  
**Grid Ref:** 348422, 174644

**Map Name:** County Series

**Map date:** 1915

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1915  
 Revised 1915  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

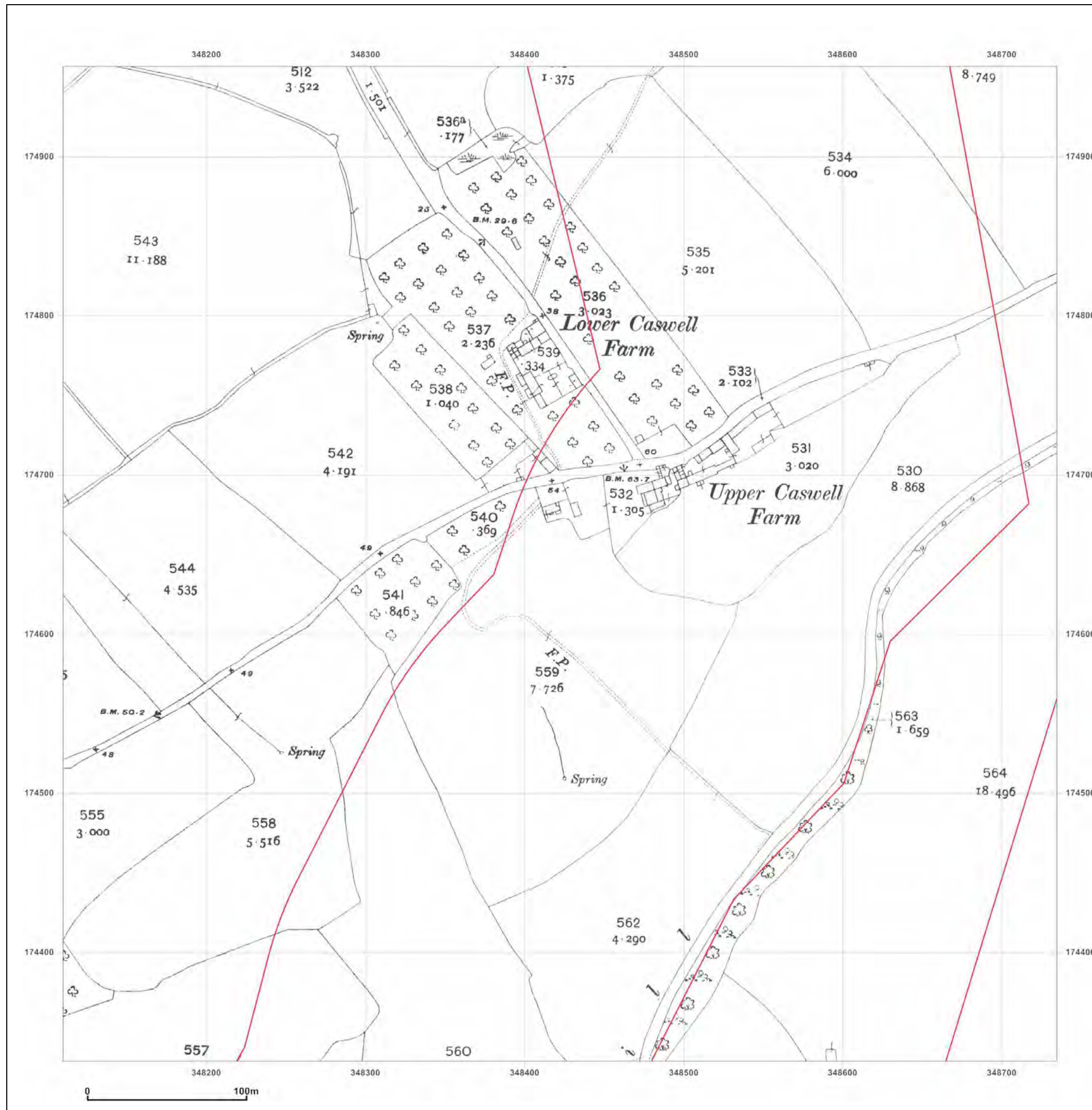


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L14  
**Grid Ref:** 348422, 174644

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

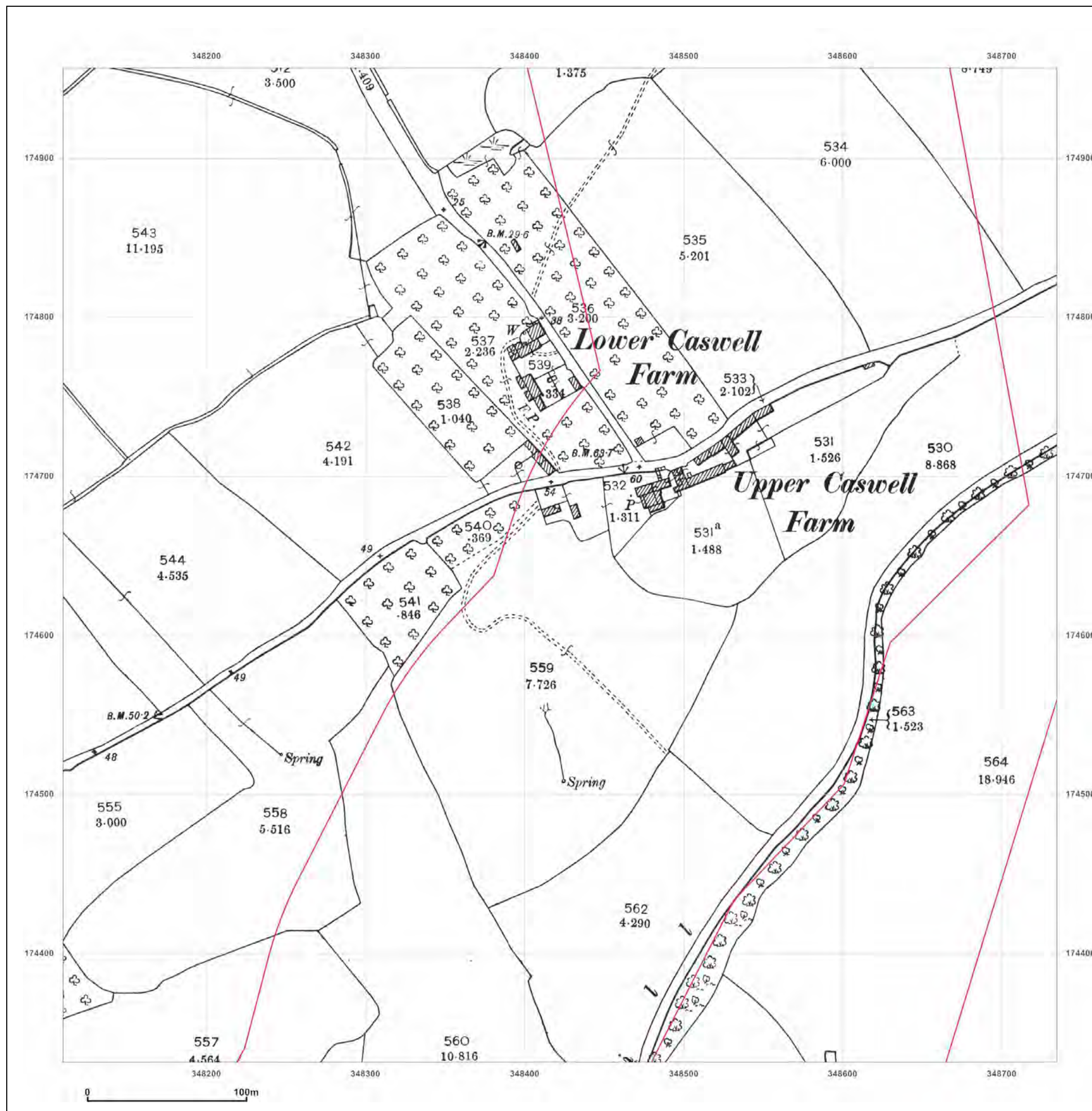


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L14  
**Grid Ref:** 348422, 174644

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

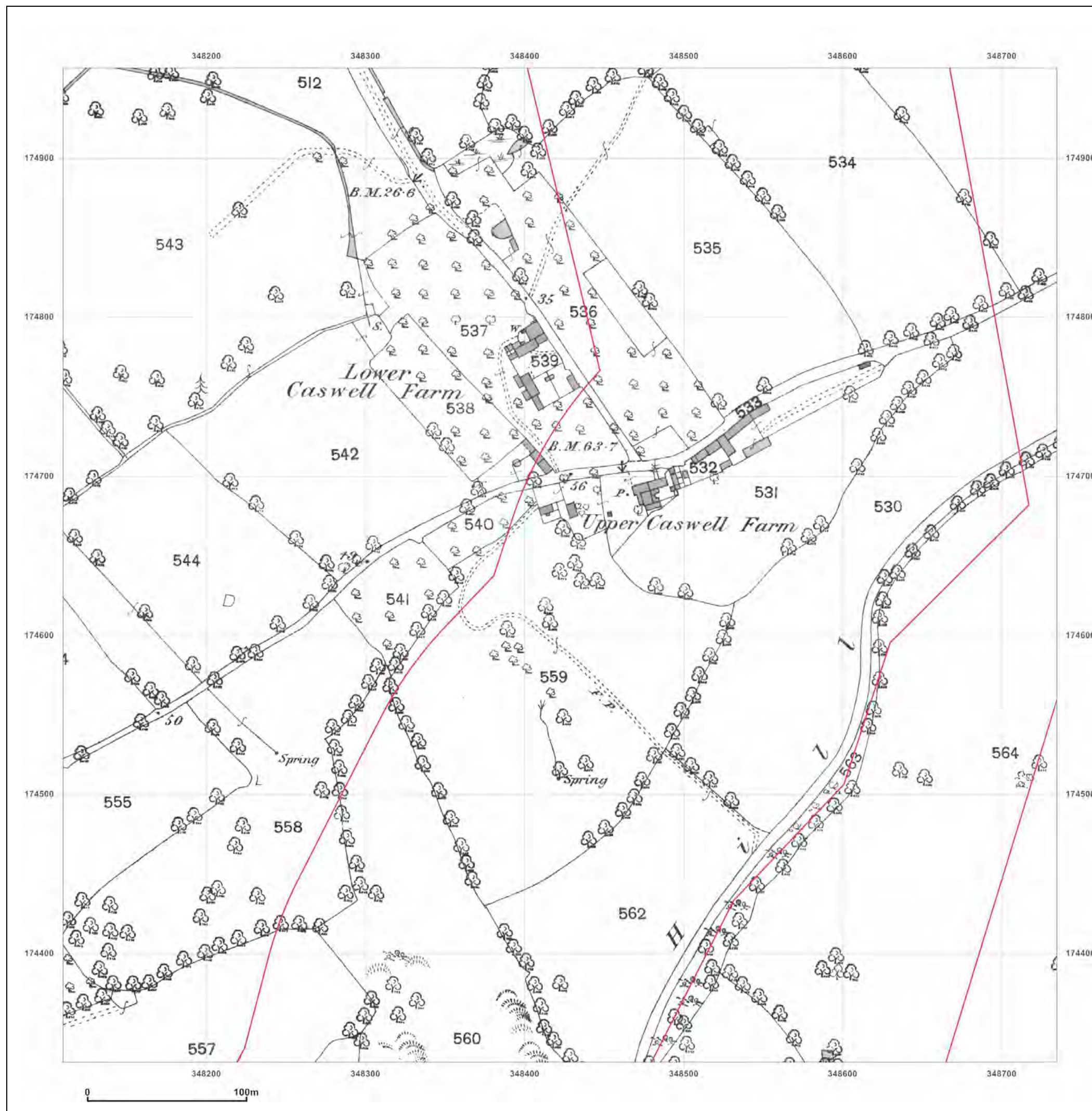


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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L13  
**Grid Ref:** 349132, 175243

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

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

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

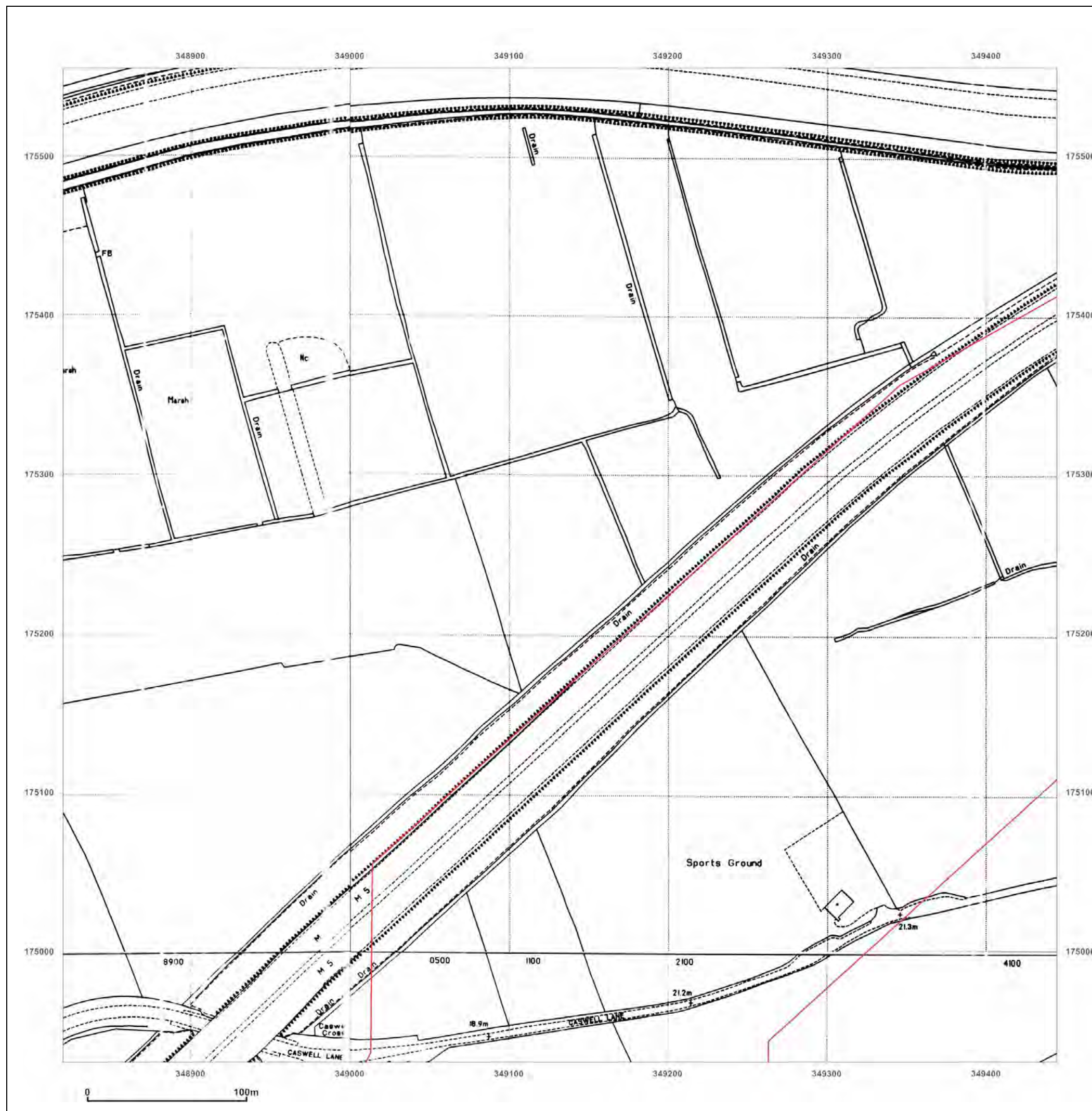


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L13  
**Grid Ref:** 349132, 175243

**Map Name:** National Grid

**Map date:** 1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1976  
 Levelled 1966

Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

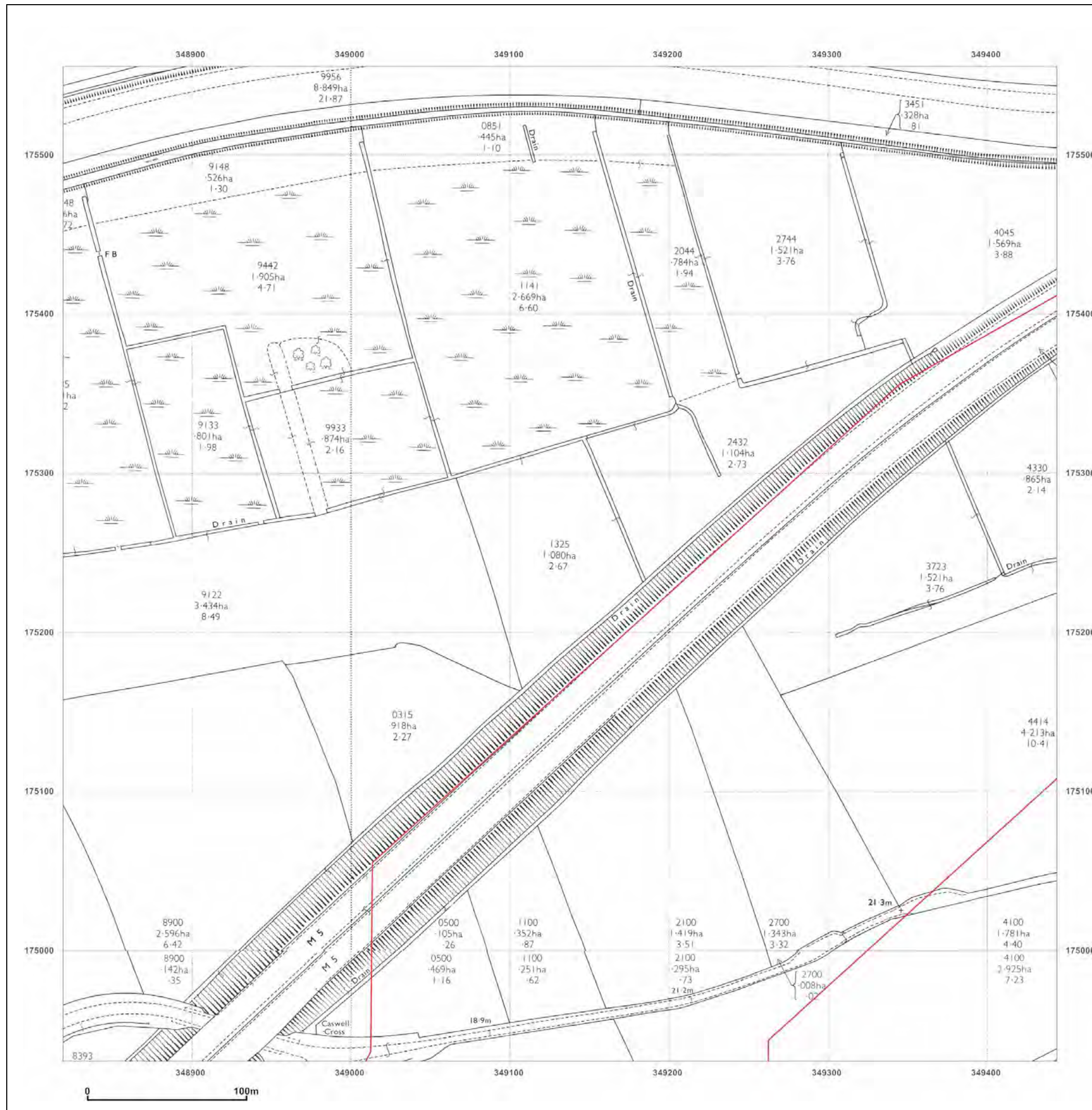


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L13  
**Grid Ref:** 349132, 175243

**Map Name:** National Grid

**Map date:** 1966

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1966  
 Revised 1966  
 Edition N/A  
 Copyright 1967  
 Levelled 1966

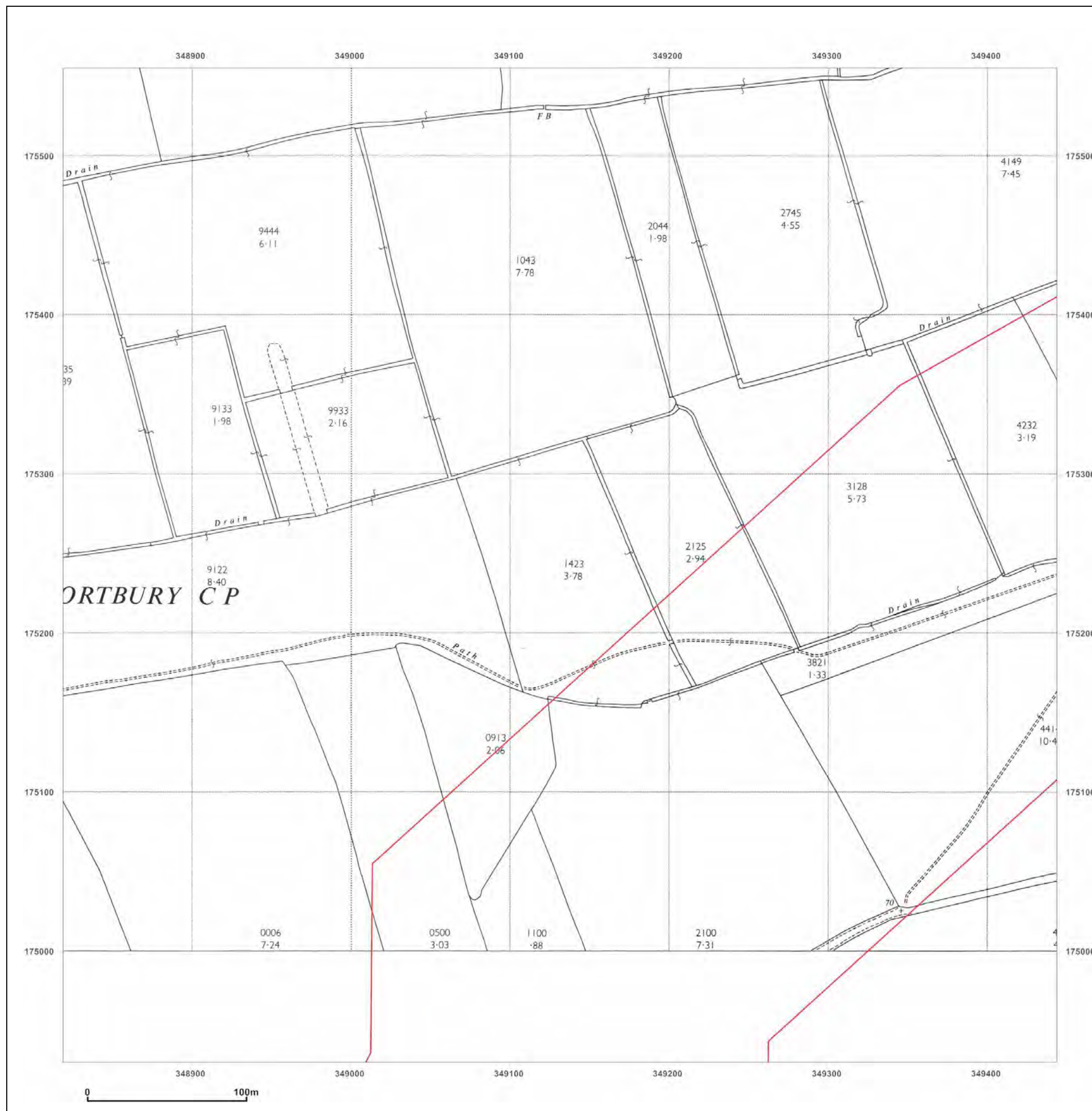


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L13  
**Grid Ref:** 349132, 175243

**Map Name:** County Series

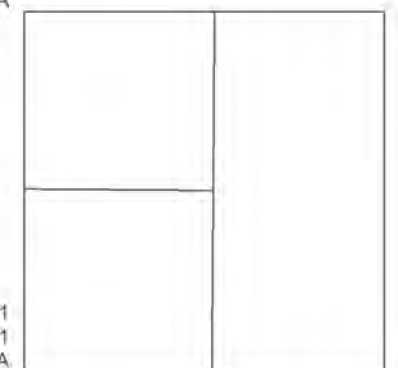
**Map date:** 1931

**Scale:** 1:2,500

**Printed at:** 1:2,500



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



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

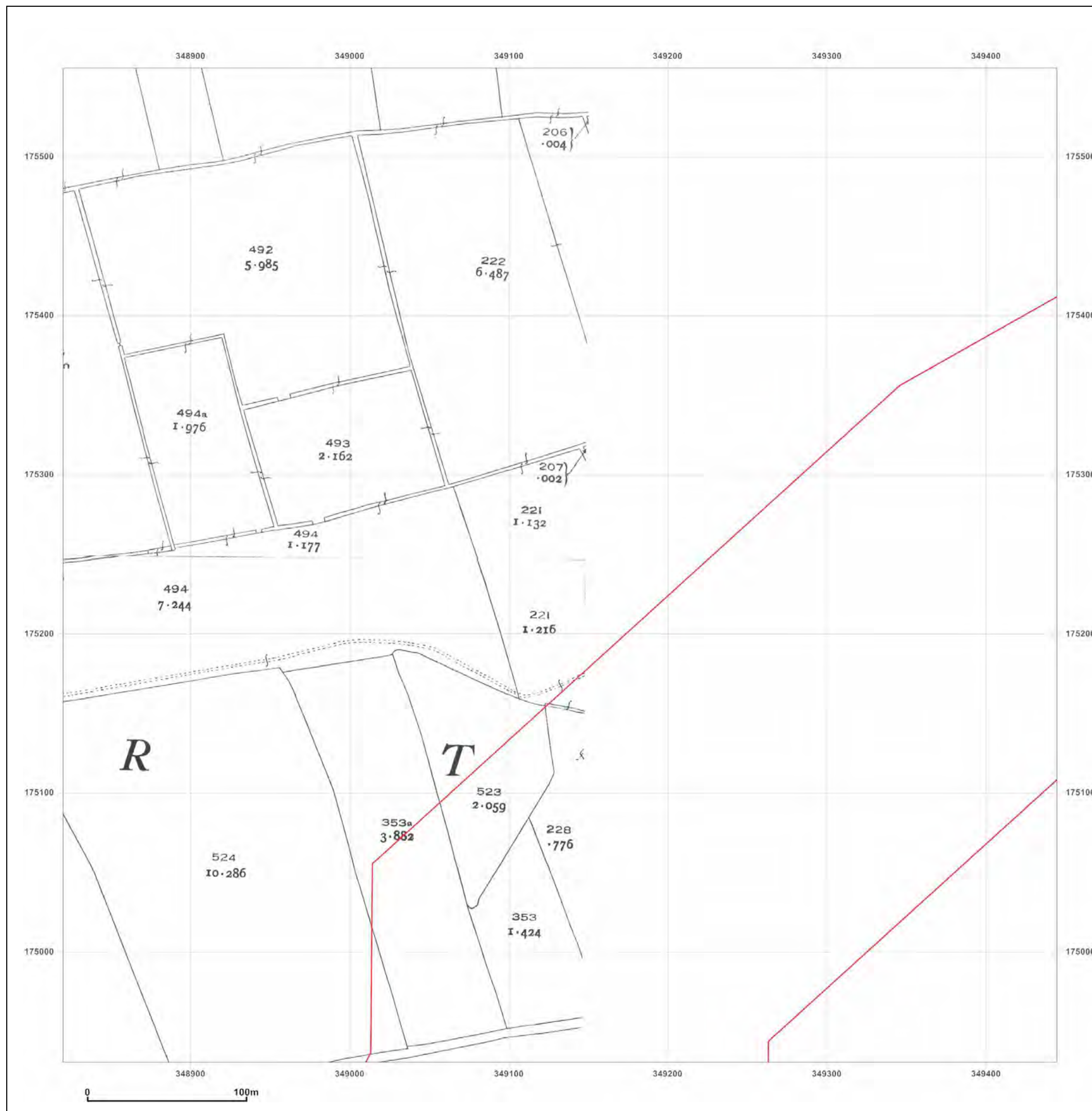


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L13  
**Grid Ref:** 349132, 175243

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

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

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

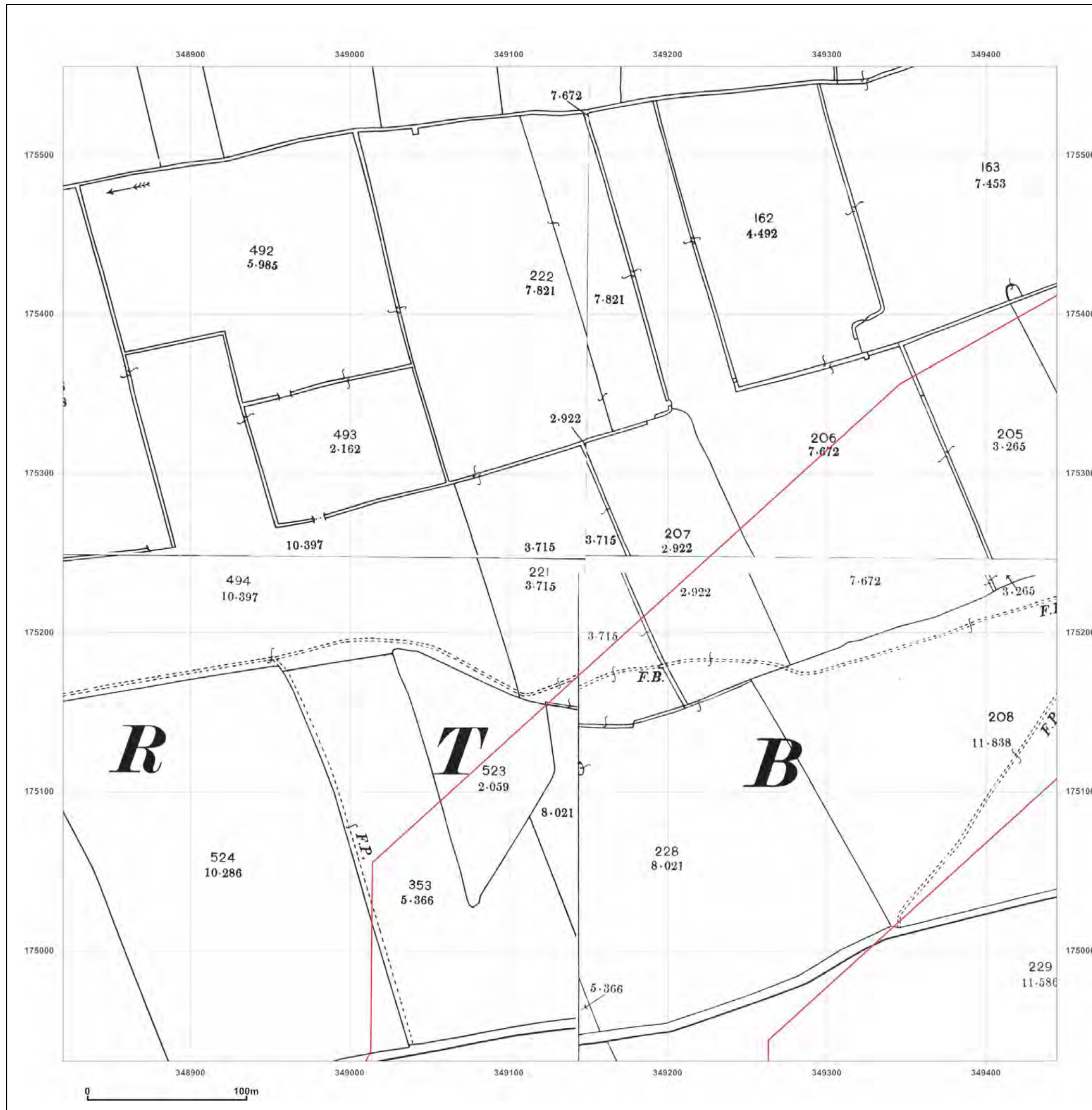


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_L13  
**Grid Ref:** 349132, 175243

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

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

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

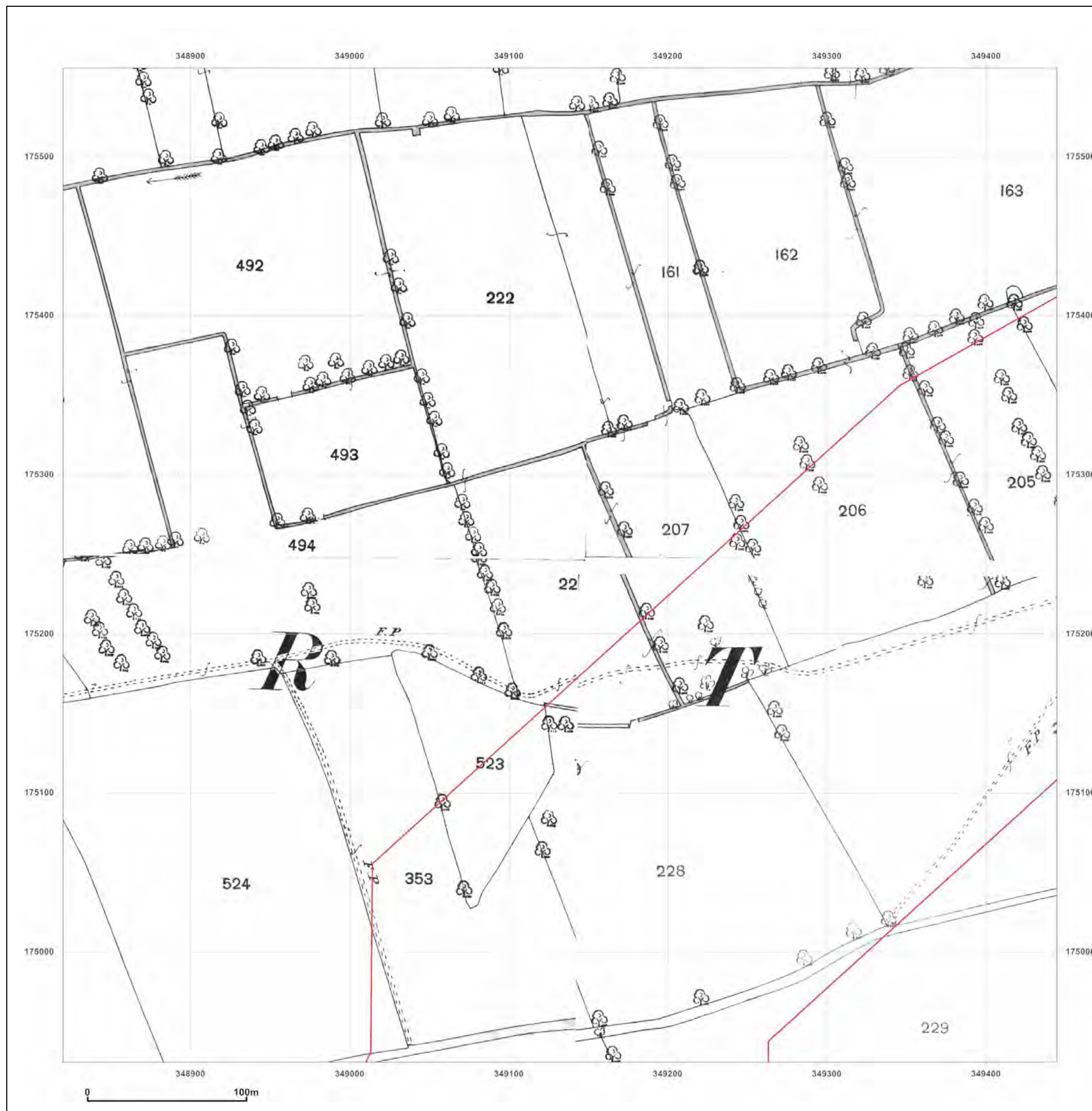


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K18  
**Grid Ref:** 347944, 172244

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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



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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K18  
**Grid Ref:** 347944, 172244

**Map Name:** National Grid

**Map date:** 1977

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1977  
 Revised 1977  
 Edition N/A  
 Copyright 1978  
 Levelled 1966

Surveyed 1977  
 Revised 1977  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

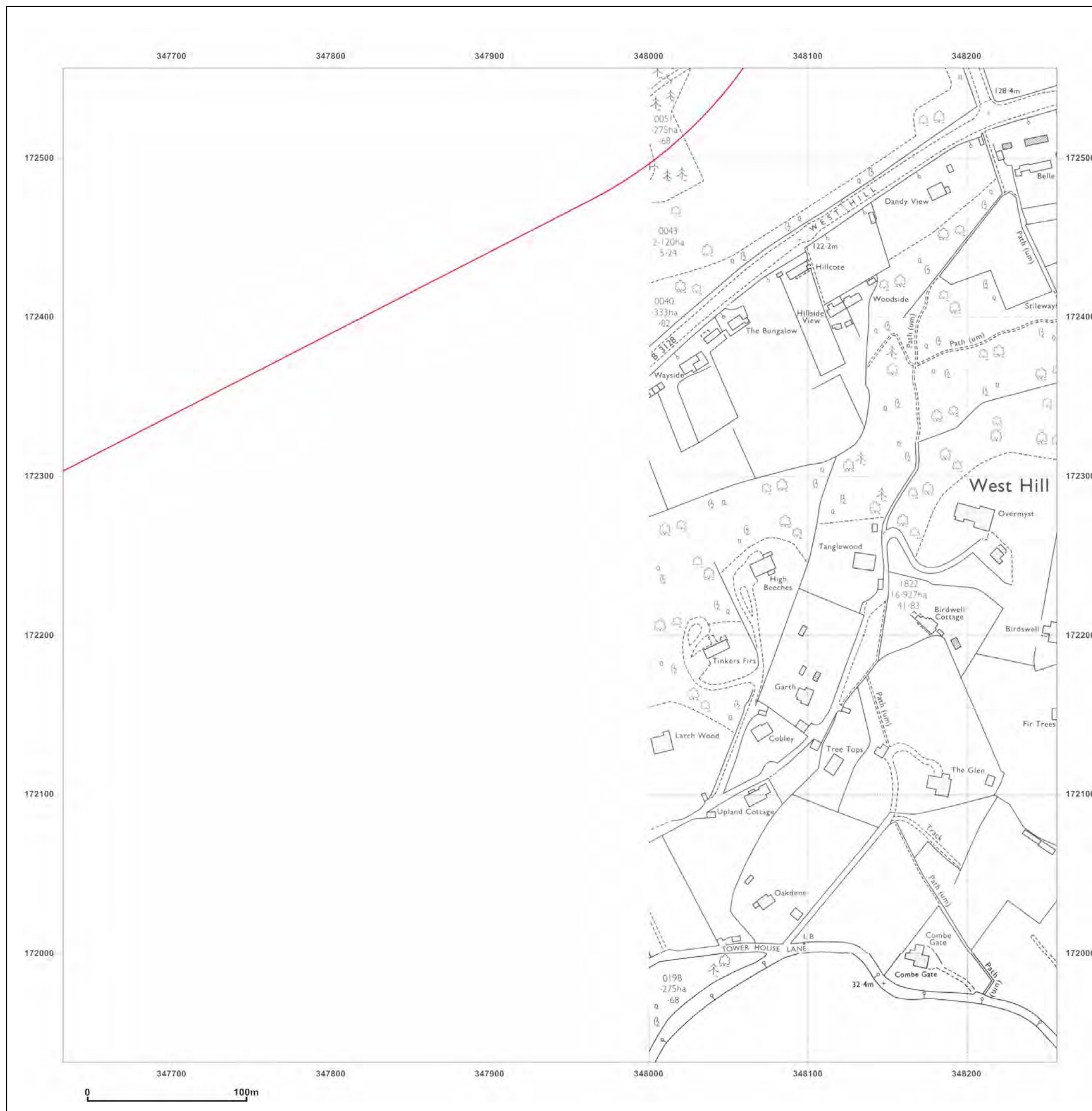


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K18  
**Grid Ref:** 347944, 172244

**Map Name:** National Grid

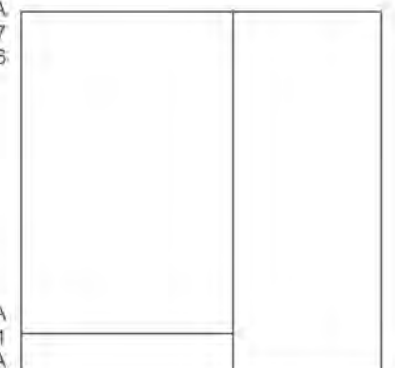
**Map date:** 1971-1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966



Surveyed N/A  
 Revised 1971  
 Edition N/A  
 Copyright 1972  
 Levelled 1966

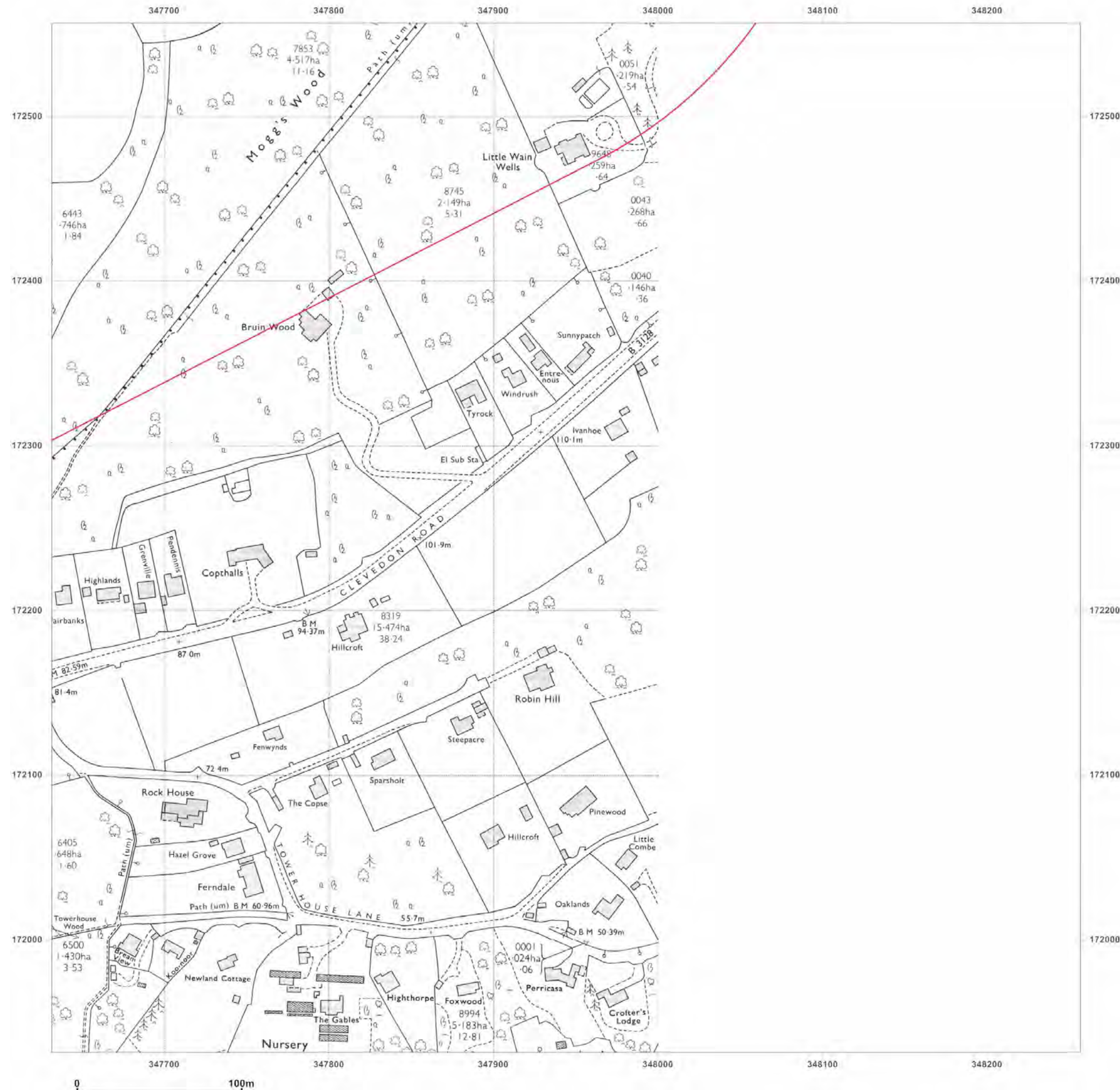


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K18  
**Grid Ref:** 347944, 172244

**Map Name:** County Series

**Map date:** 1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

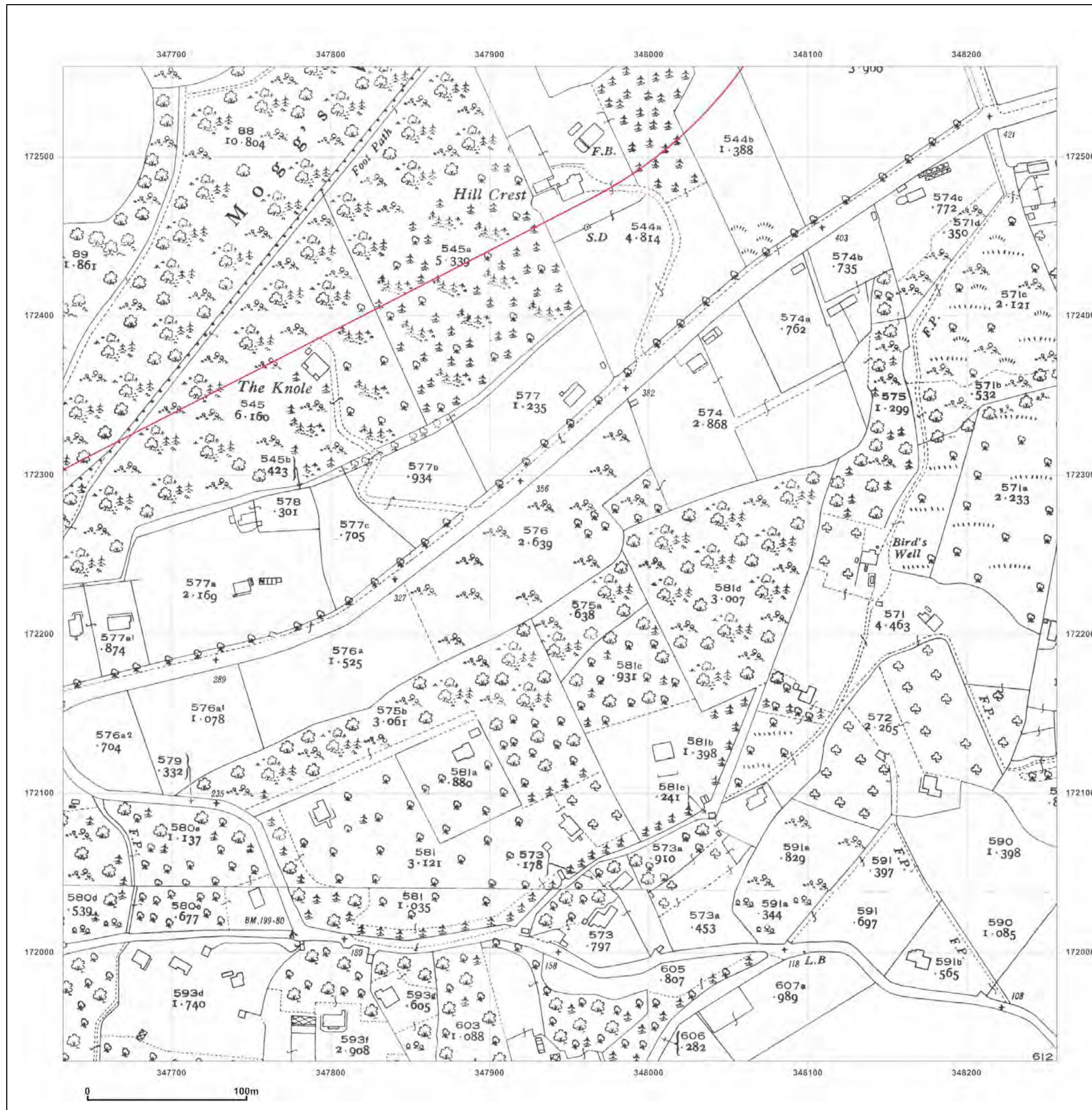


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K18  
**Grid Ref:** 347944, 172244

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

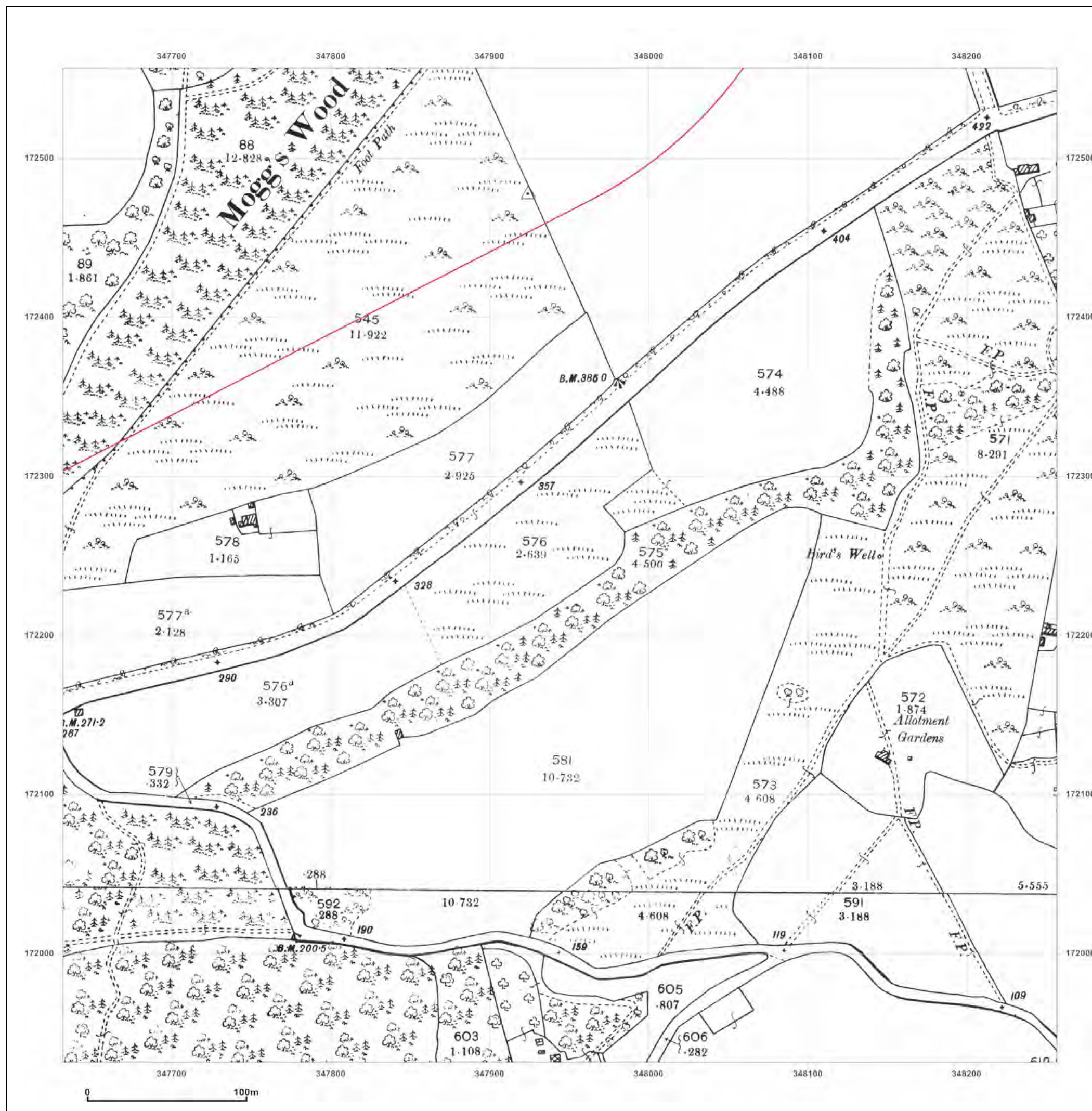


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K18  
**Grid Ref:** 347944, 172244

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

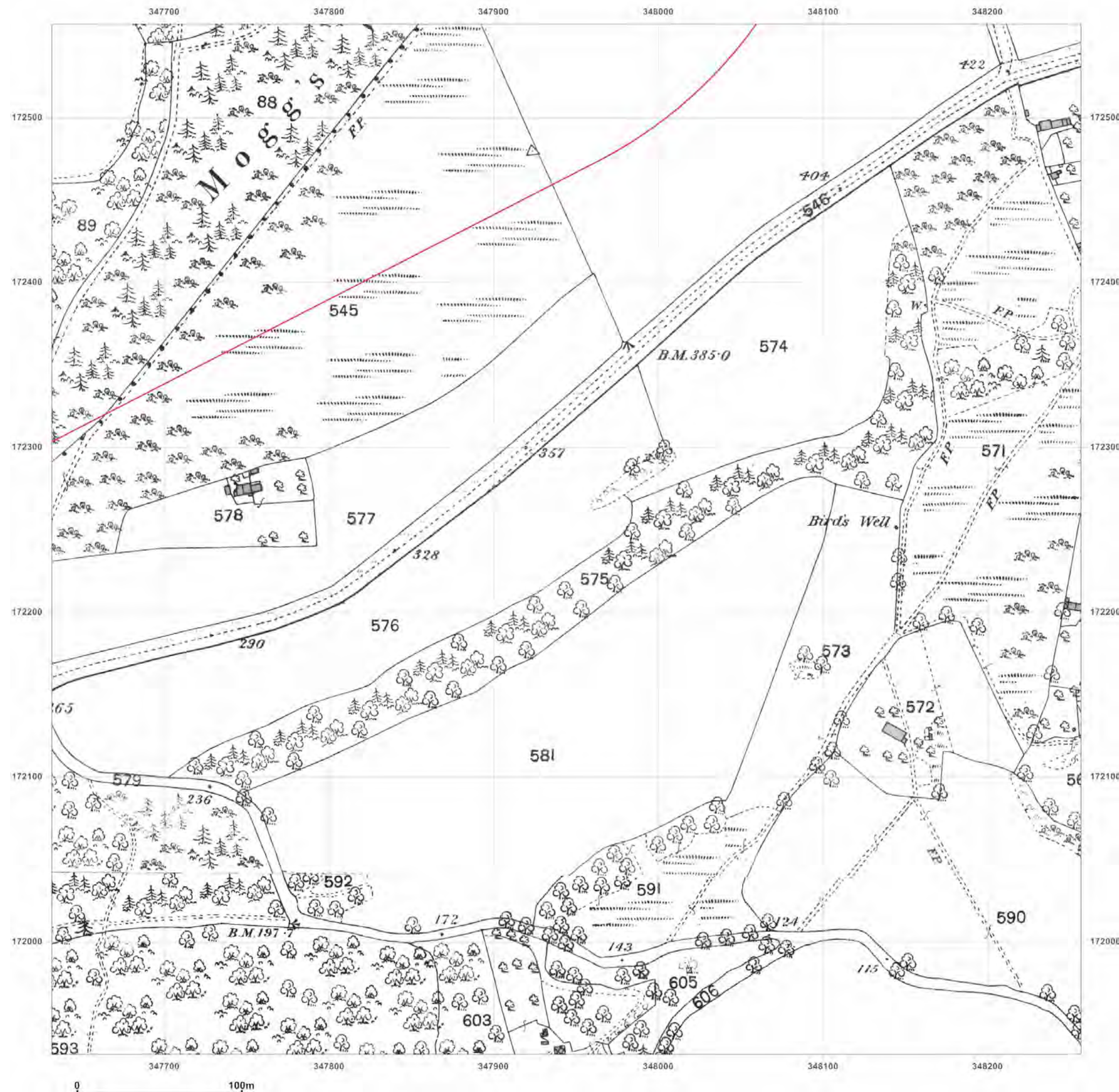


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K17  
**Grid Ref:** 347925, 172843

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

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

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

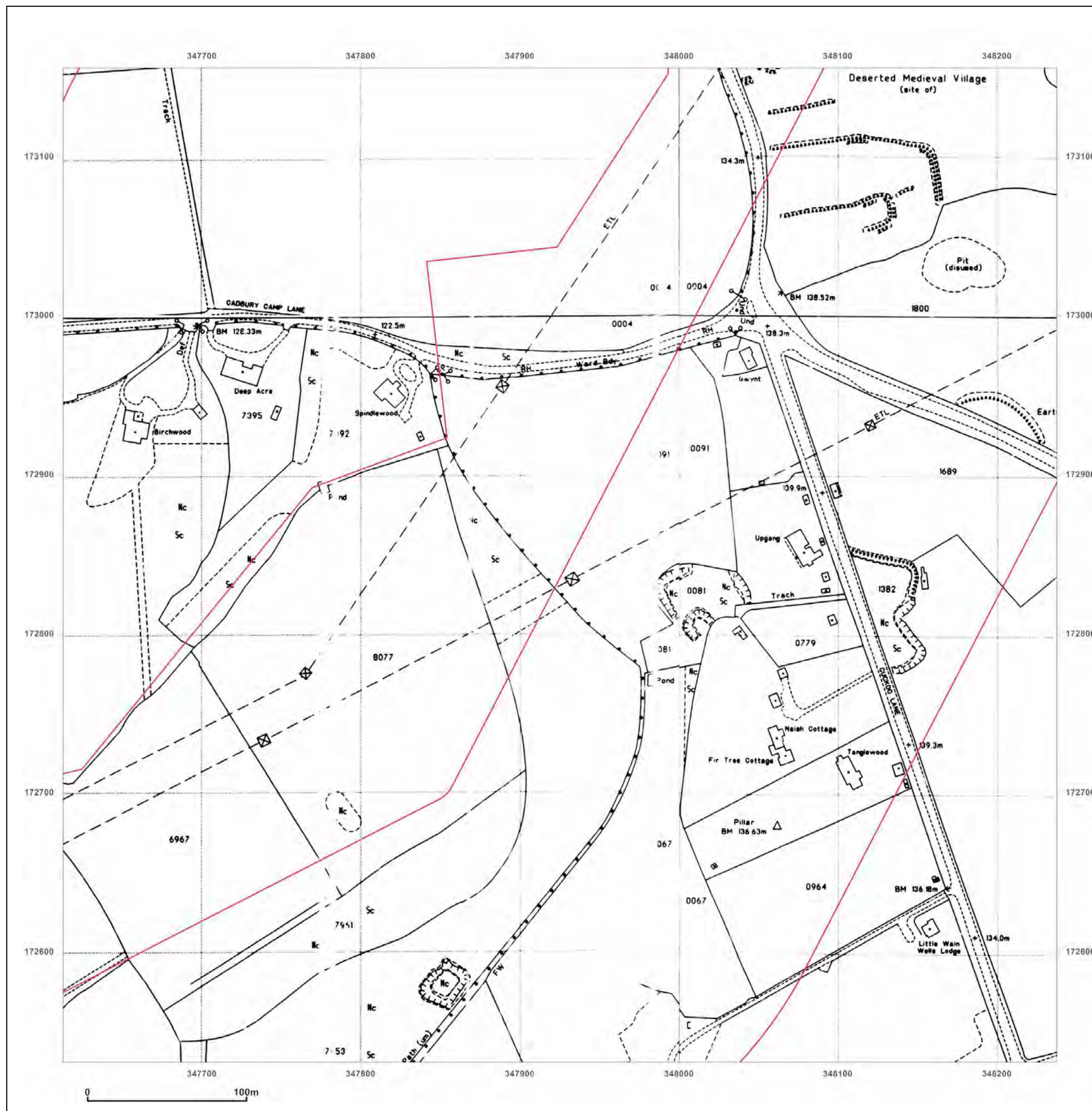


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K17  
**Grid Ref:** 347925, 172843

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

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

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

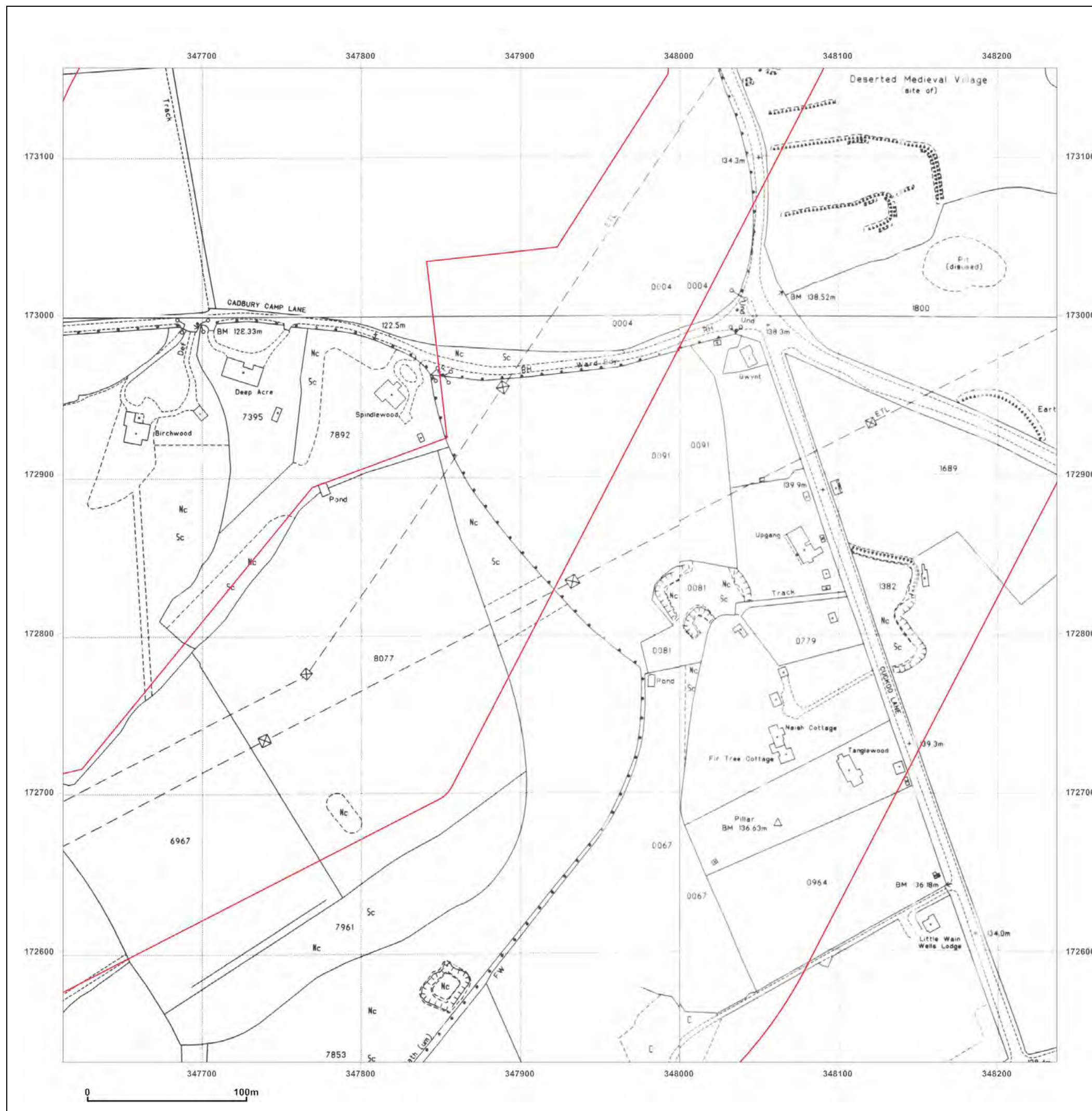


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K17  
**Grid Ref:** 347925, 172843

**Map Name:** National Grid

**Map date:** 1976-1977

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1977  
 Revised 1977  
 Edition N/A  
 Copyright 1978  
 Levelled 1966

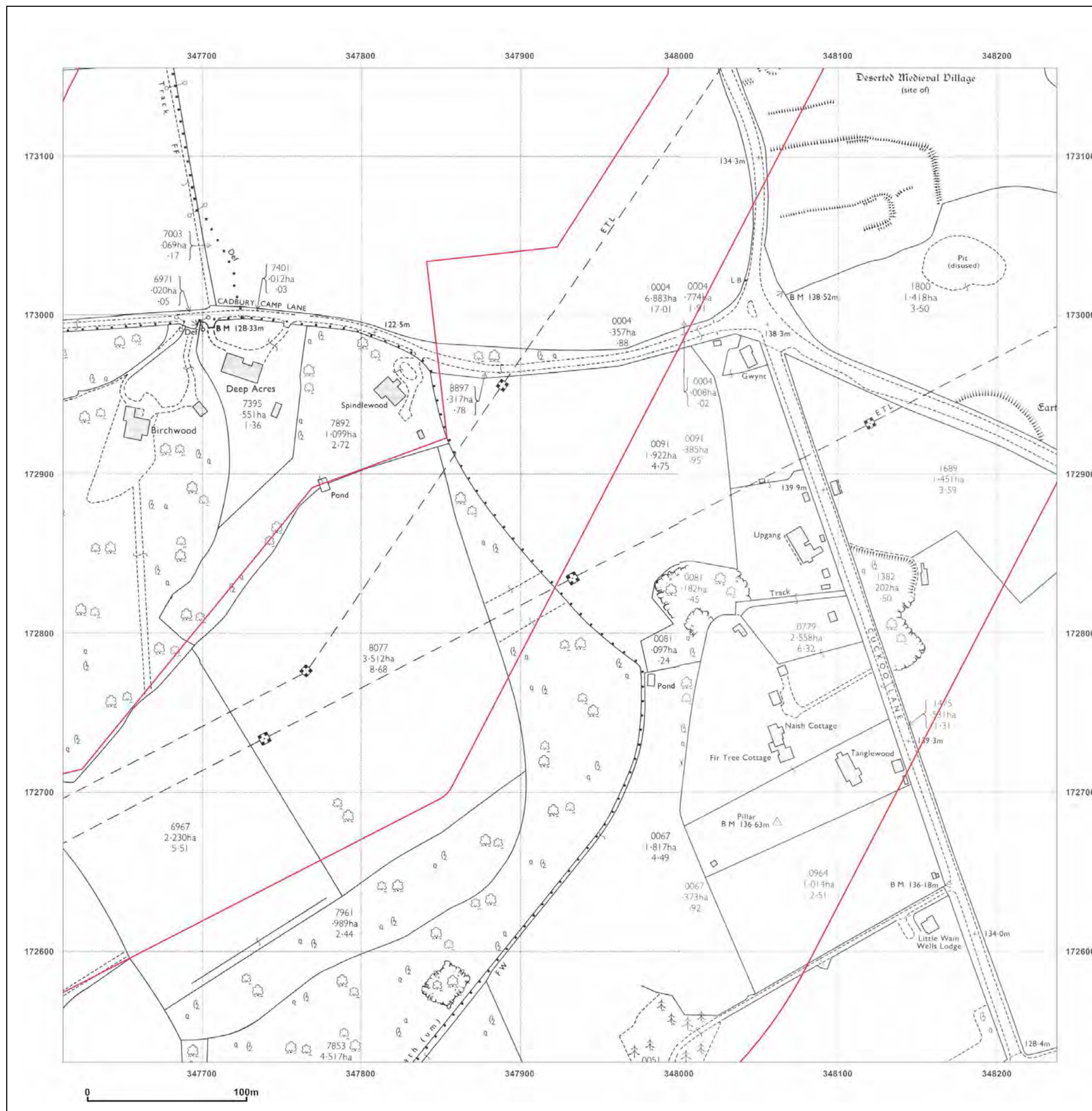


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K17  
**Grid Ref:** 347925, 172843

**Map Name:** County Series

**Map date:** 1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

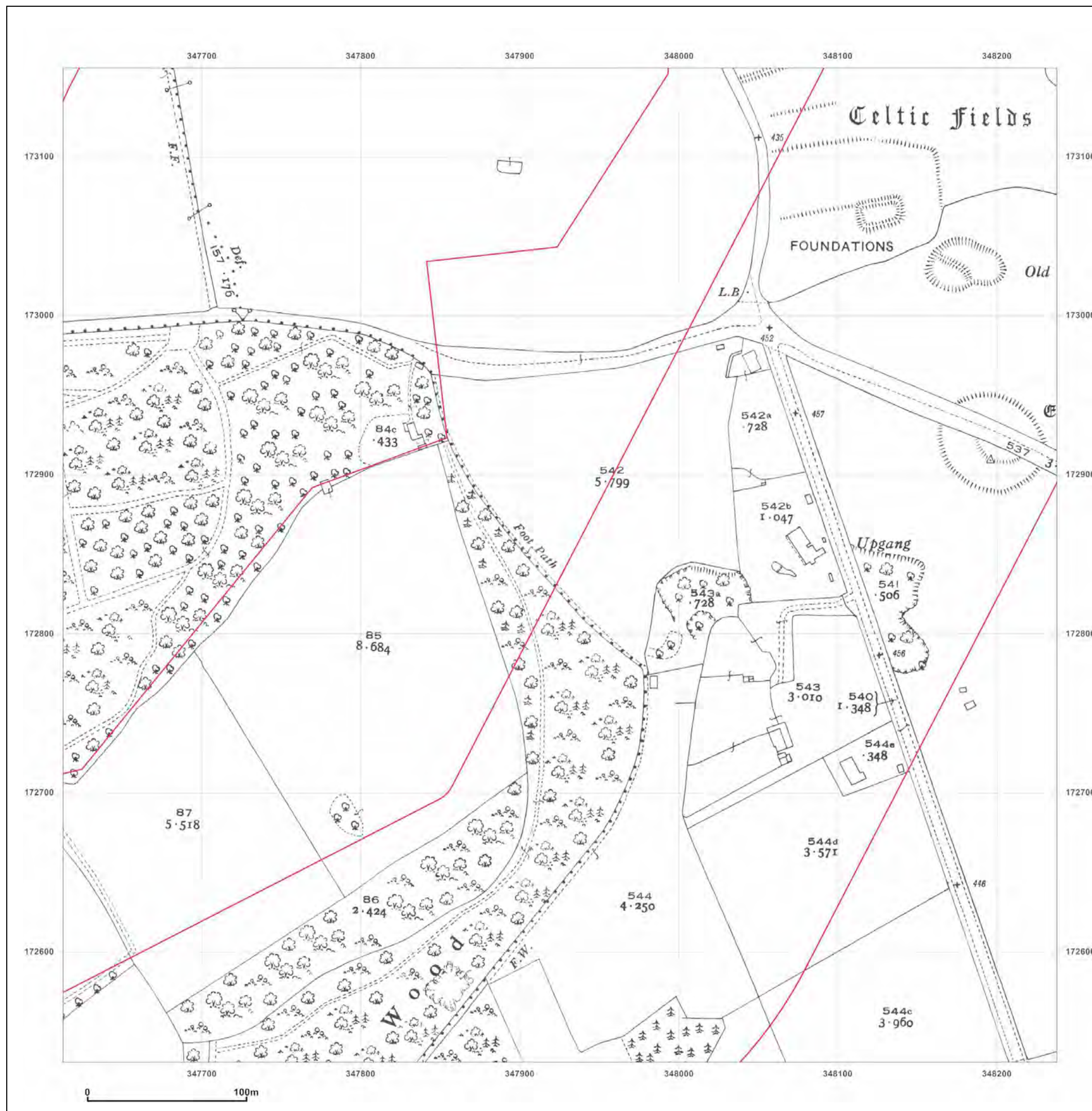


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K17  
**Grid Ref:** 347925, 172843

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

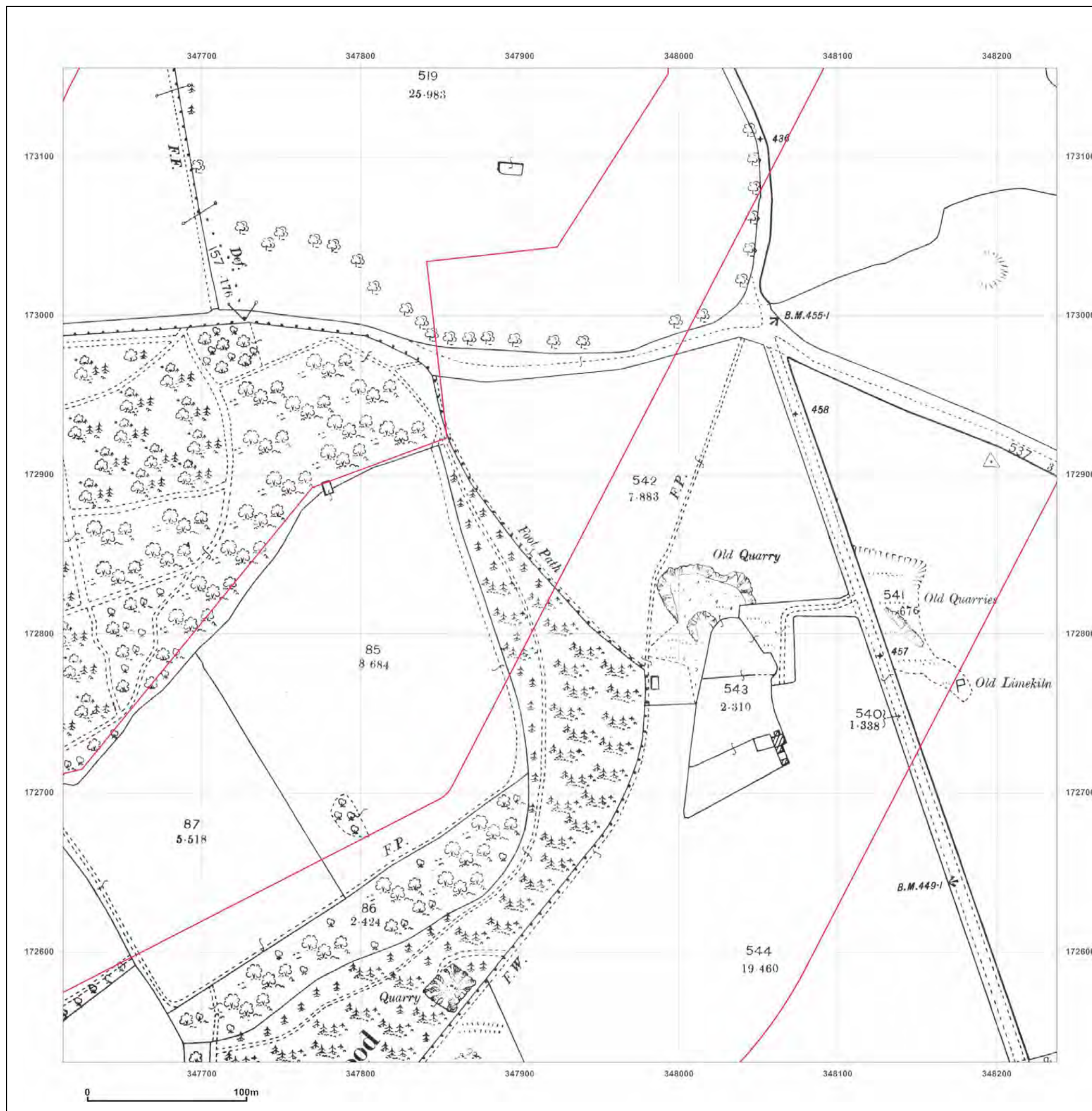


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K17  
**Grid Ref:** 347925, 172843

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

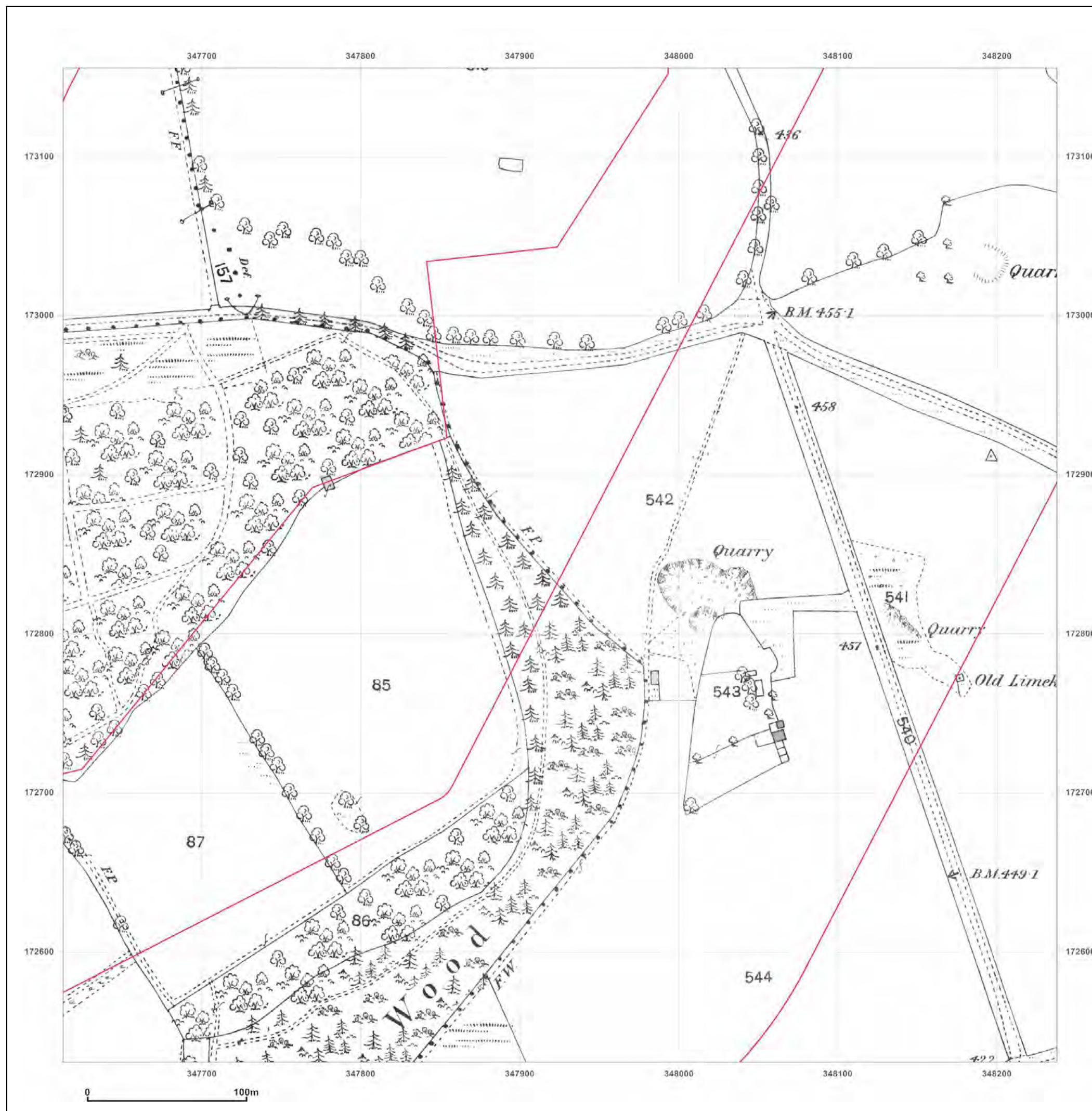


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K16  
**Grid Ref:** 347873, 173444

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

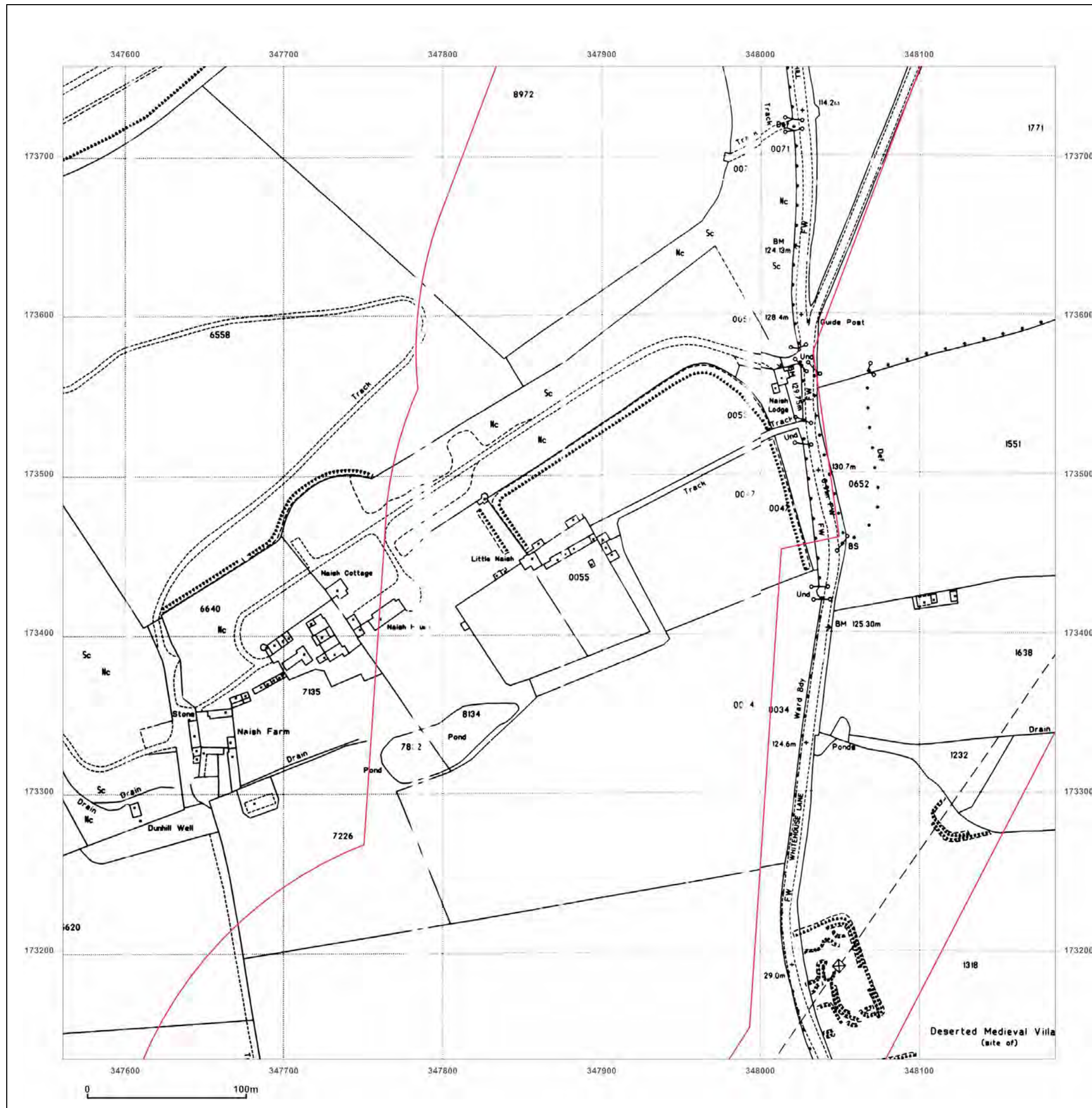


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K16  
**Grid Ref:** 347873, 173444

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

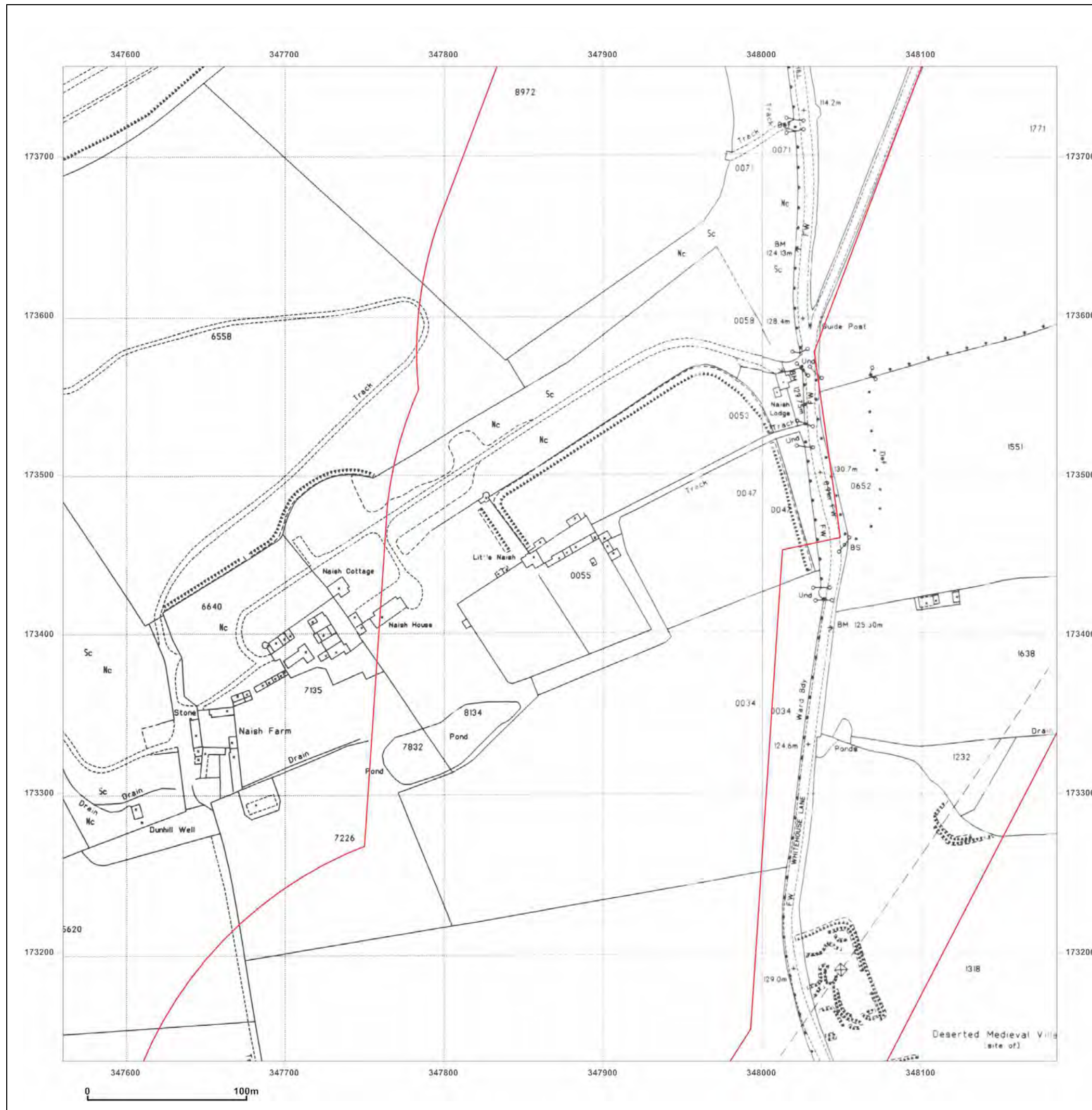


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K16  
**Grid Ref:** 347873, 173444

**Map Name:** County Series

**Map date:** 1931-1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

Surveyed 1932  
 Revised 1932  
 Edition N/A  
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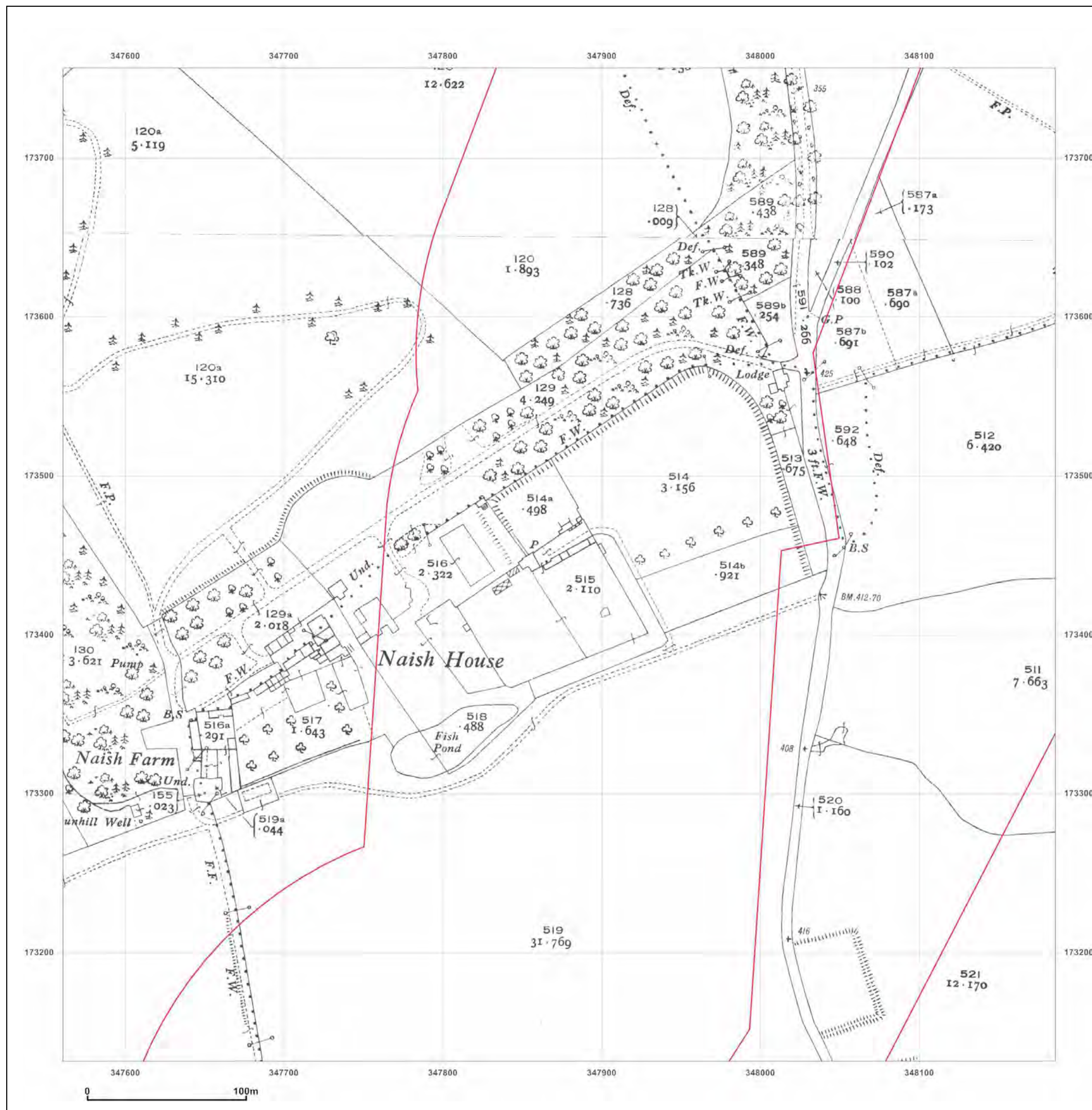


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**Site Details:**

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K16  
**Grid Ref:** 347873, 173444

**Map Name:** County Series

**Map date:** 1915

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1915  
Revised 1915  
Edition N/A  
Copyright N/A  
Levelled N/A

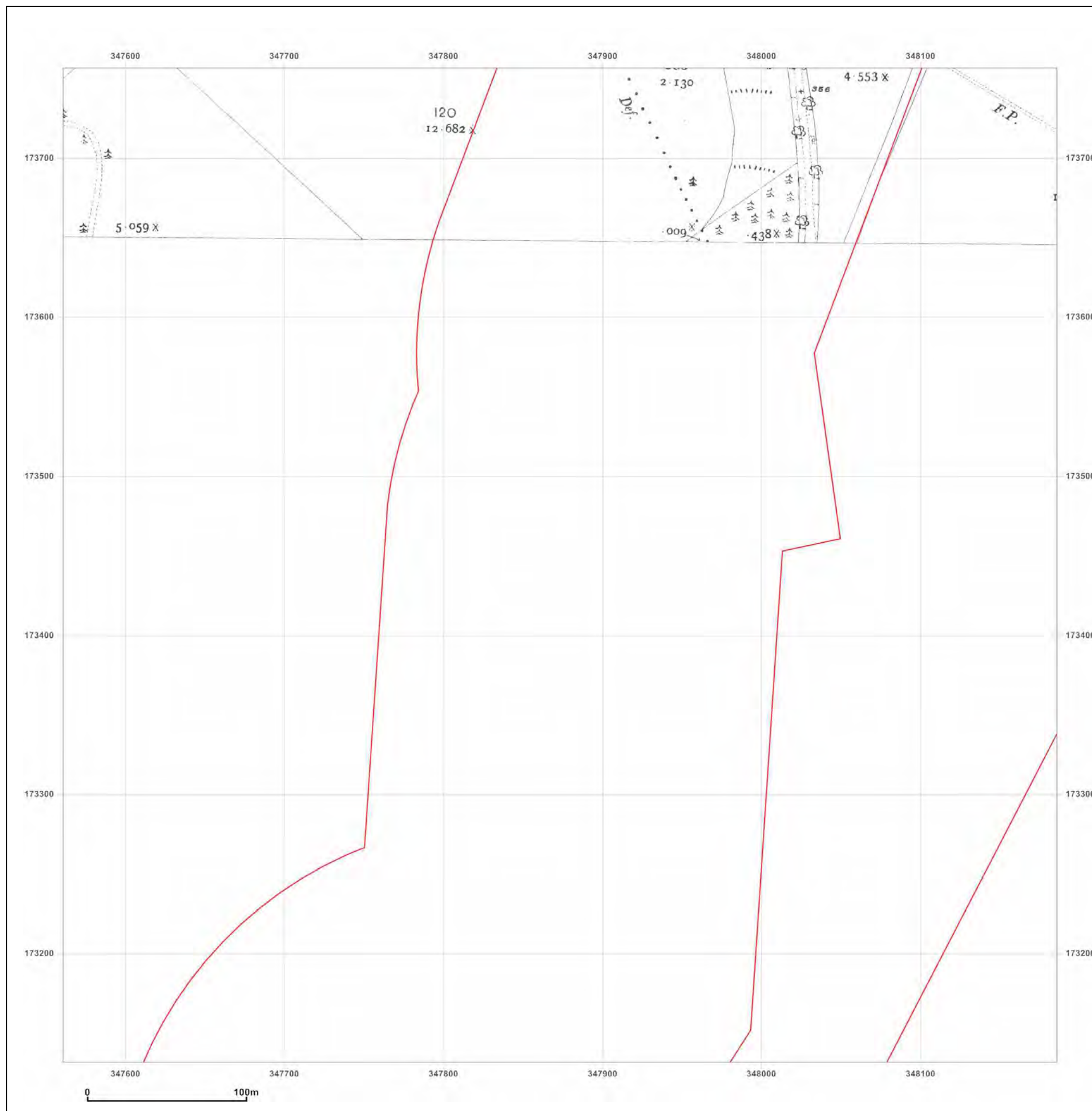


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K16  
**Grid Ref:** 347873, 173444

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

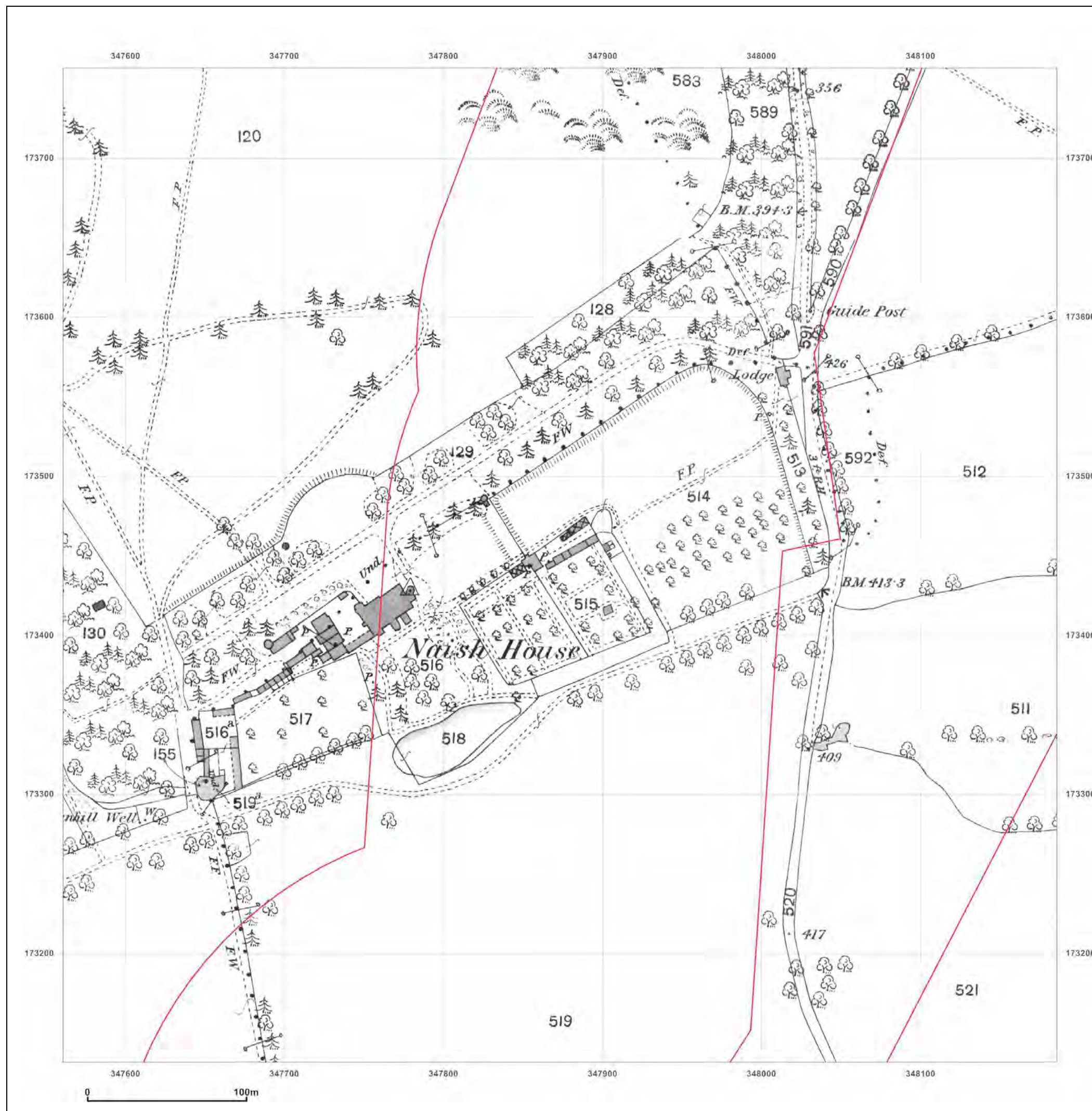


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K15  
**Grid Ref:** 348076, 174044

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

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

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

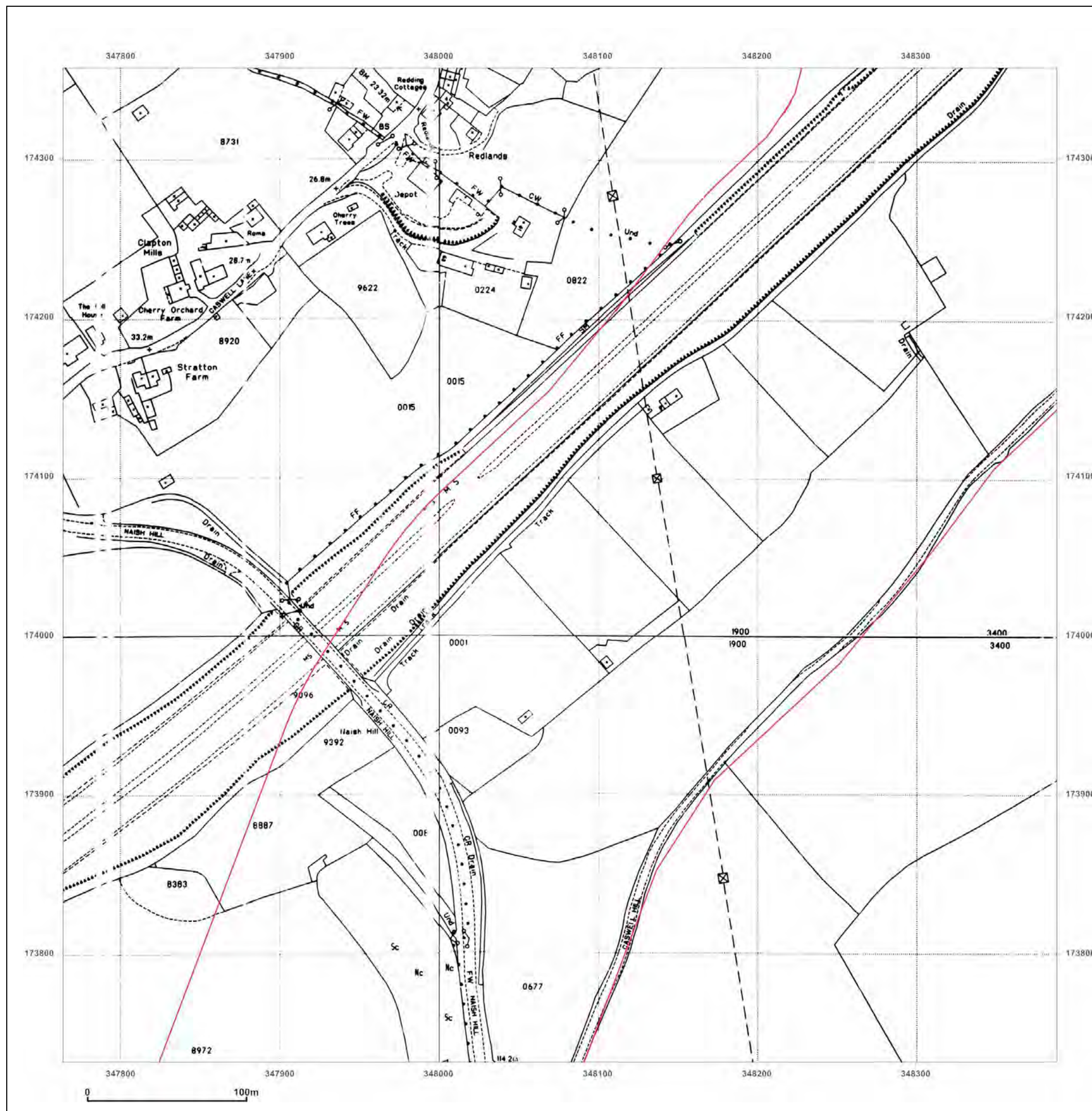


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K15  
**Grid Ref:** 348076, 174044

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

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

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 Revised 1992  
 Edition N/A  
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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K15  
**Grid Ref:** 348076, 174044

**Map Name:** National Grid

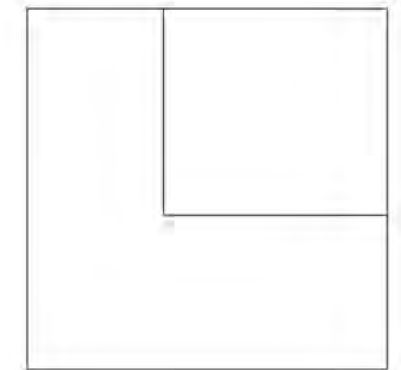
**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

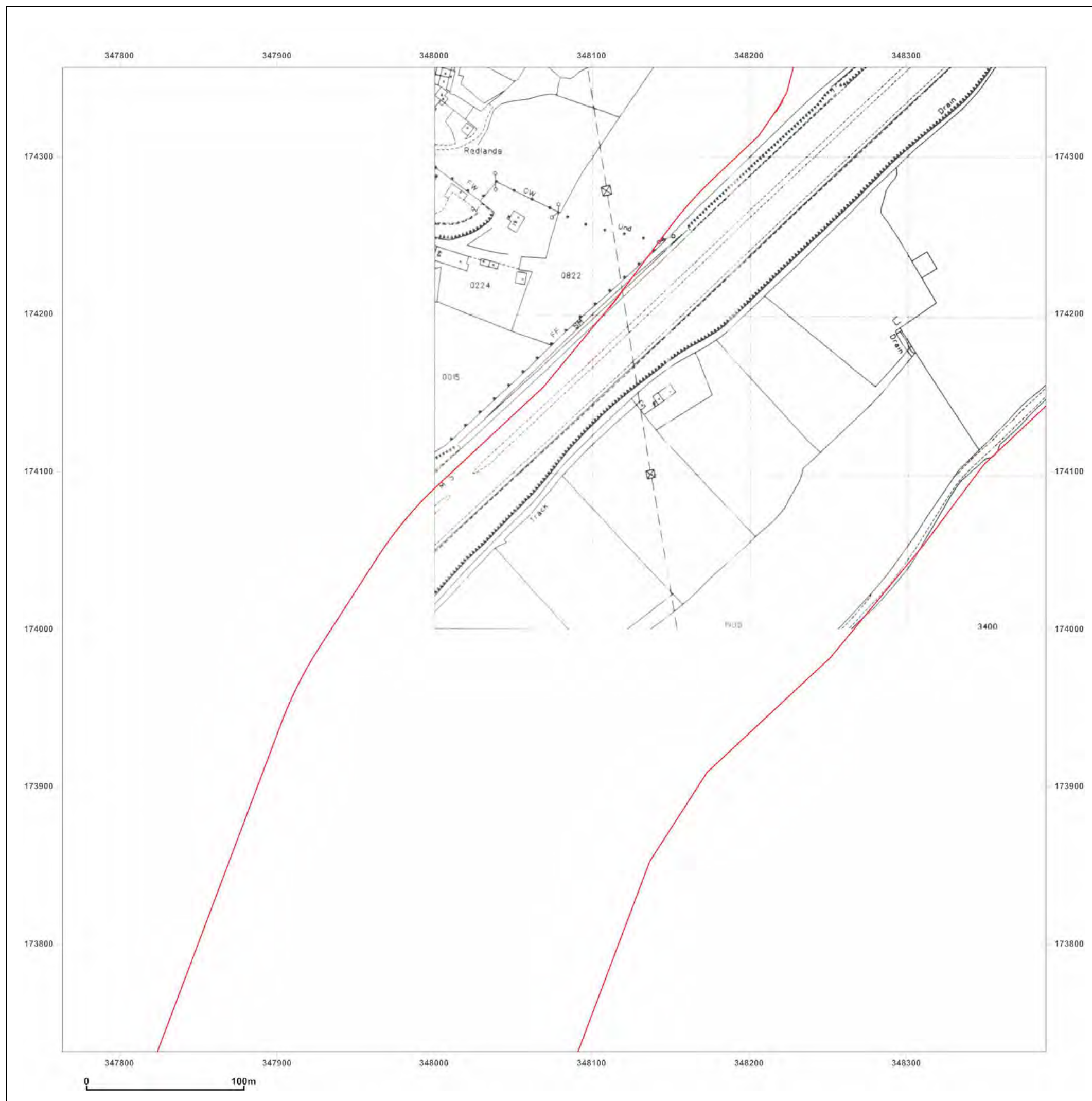


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K15  
**Grid Ref:** 348076, 174044

**Map Name:** National Grid

**Map date:** 1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1976  
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 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

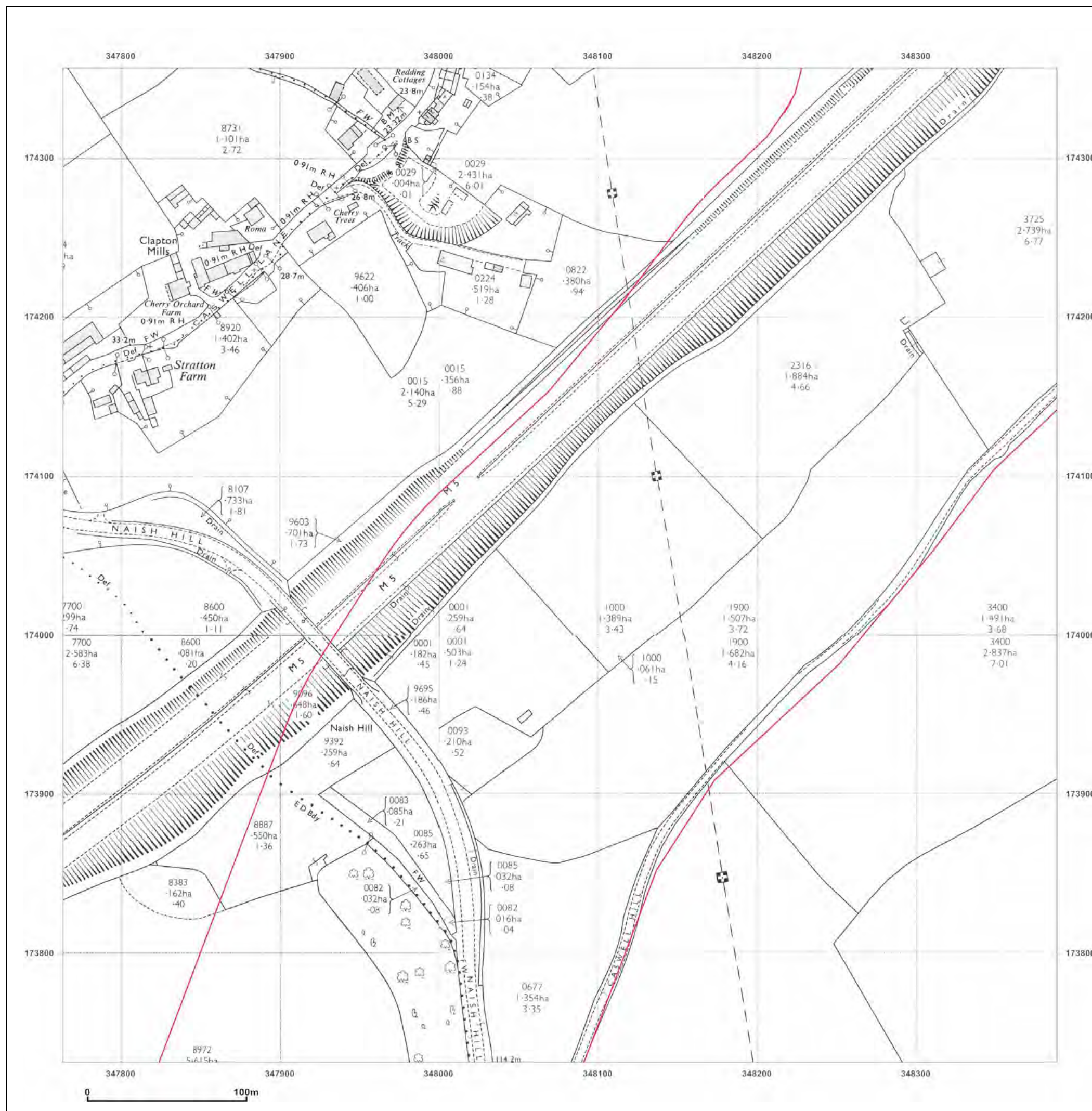


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K15  
**Grid Ref:** 348076, 174044

**Map Name:** National Grid

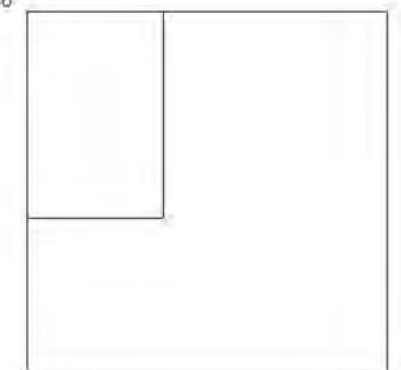
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**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1966  
 Revised 1966  
 Edition N/A  
 Copyright 1968  
 Levelled 1966

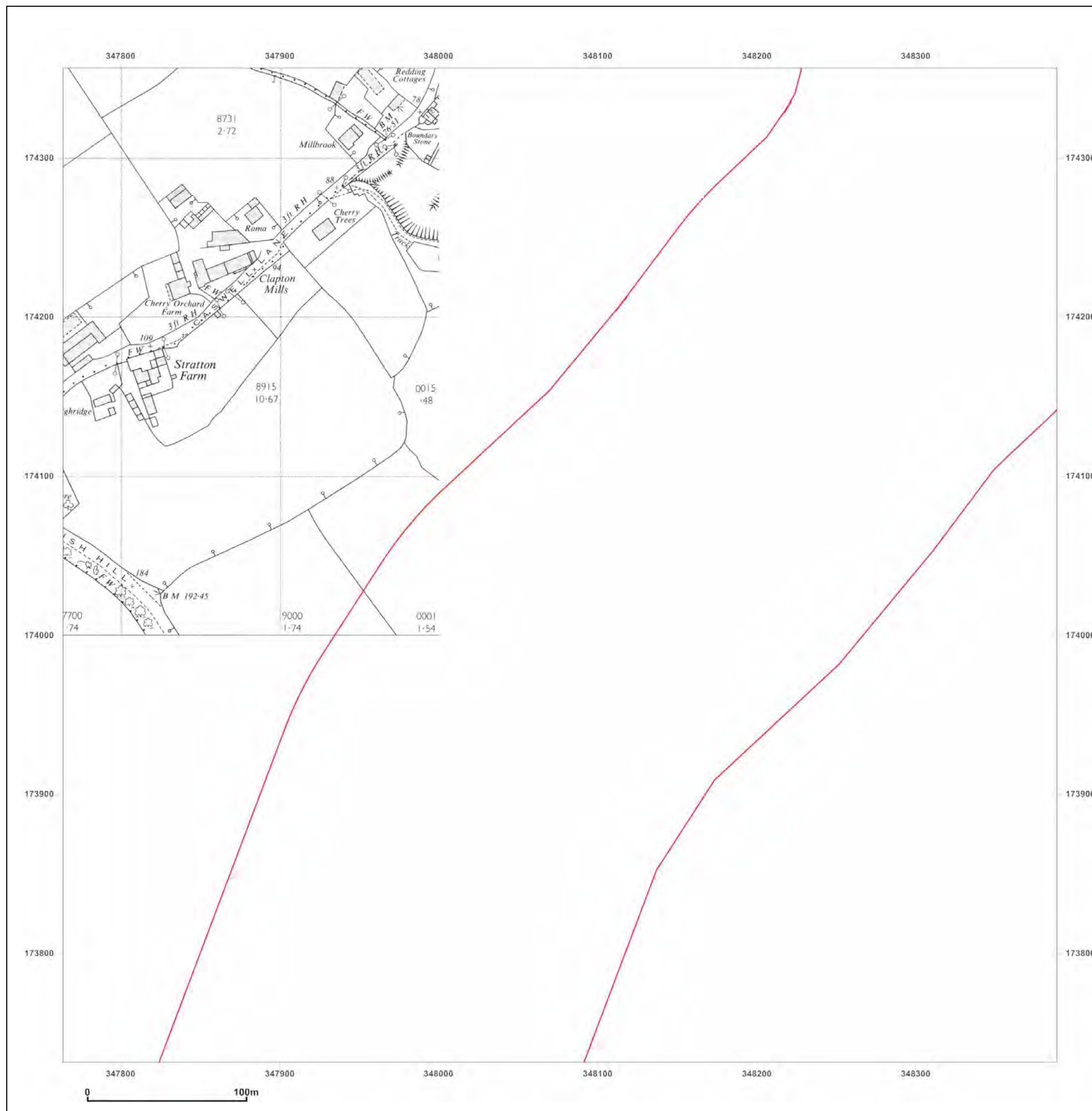


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K15  
**Grid Ref:** 348076, 174044

**Map Name:** County Series

**Map date:** 1931

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

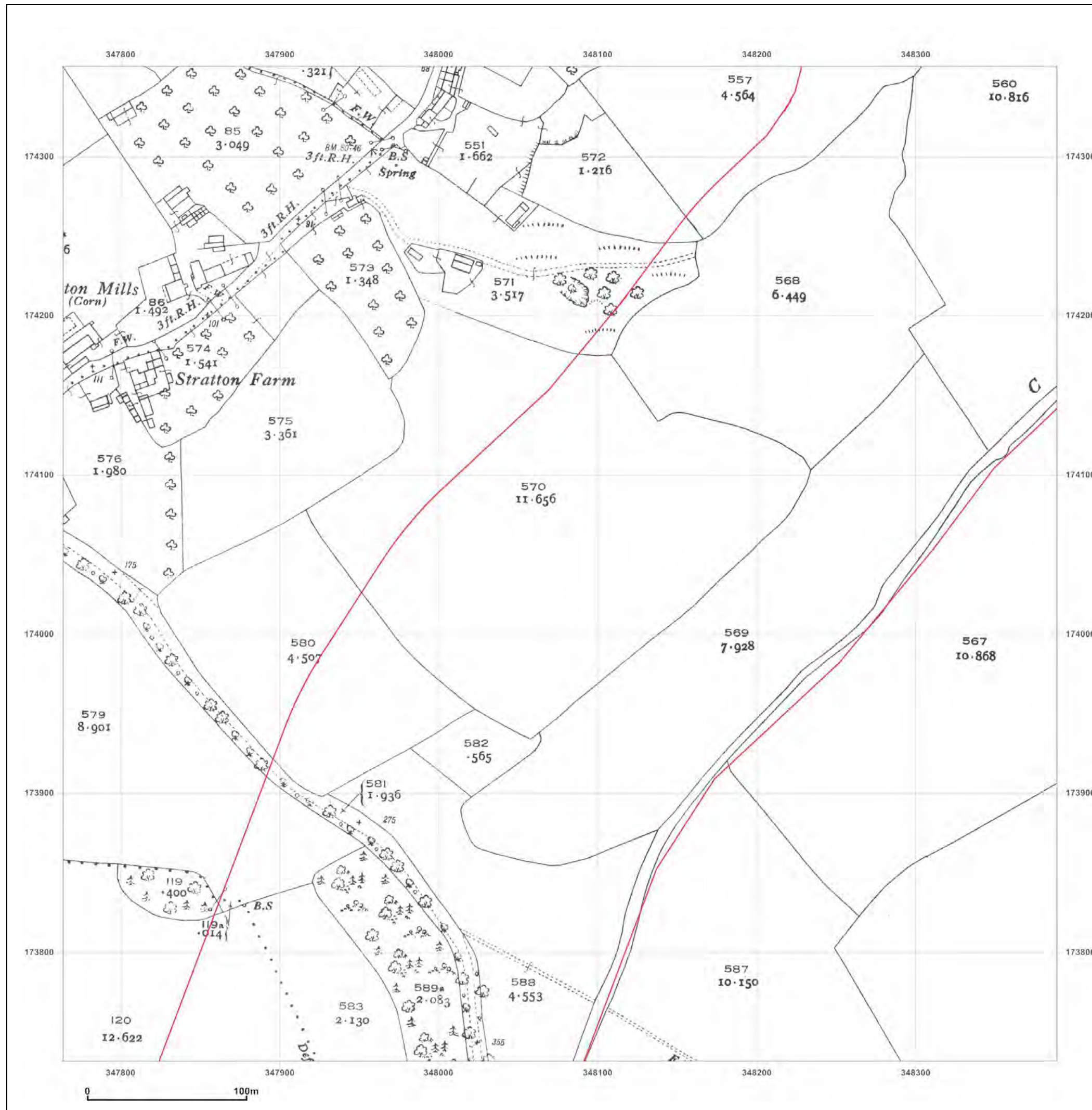


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K15  
**Grid Ref:** 348076, 174044

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

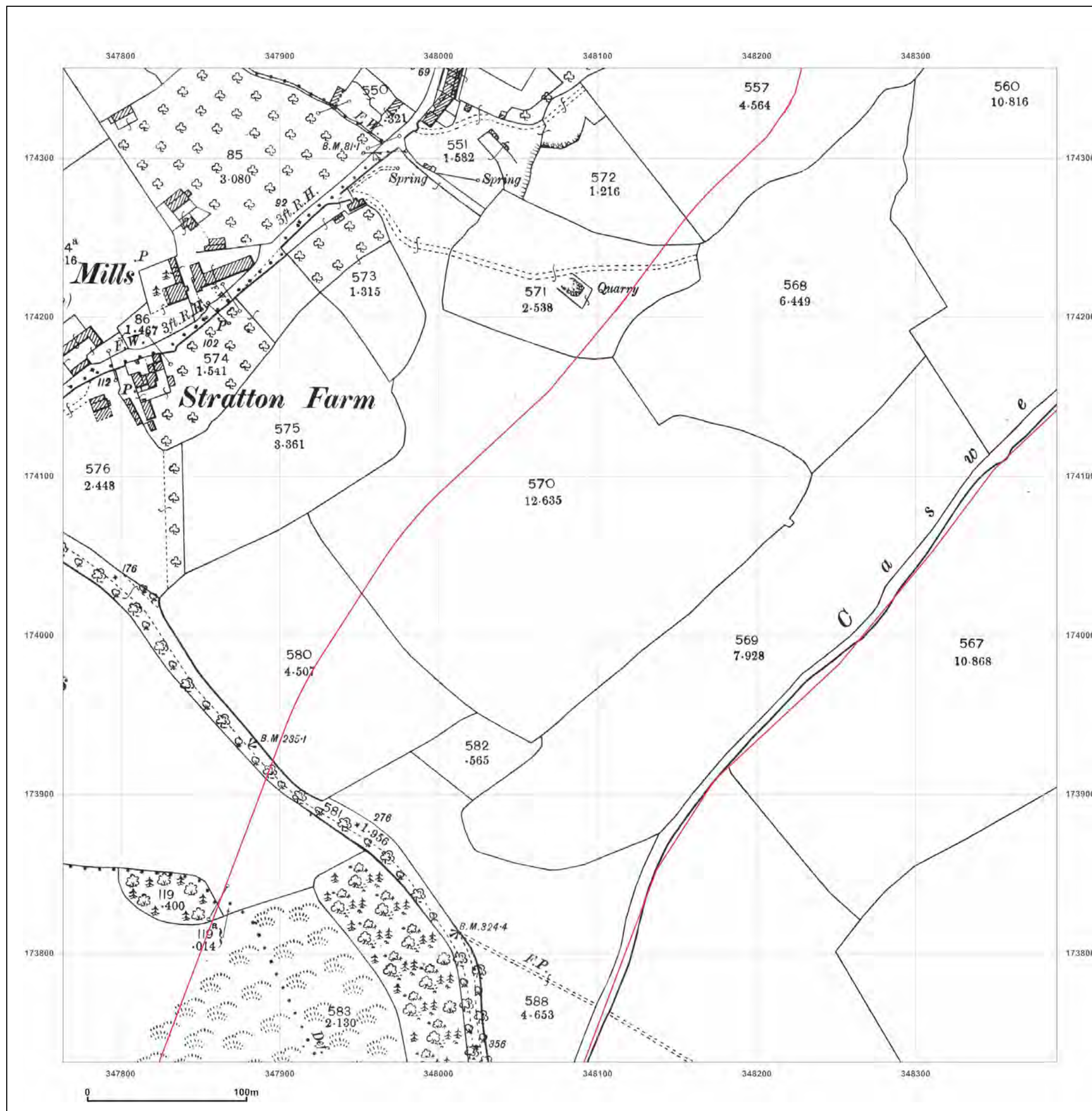


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_K15  
**Grid Ref:** 348076, 174044

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

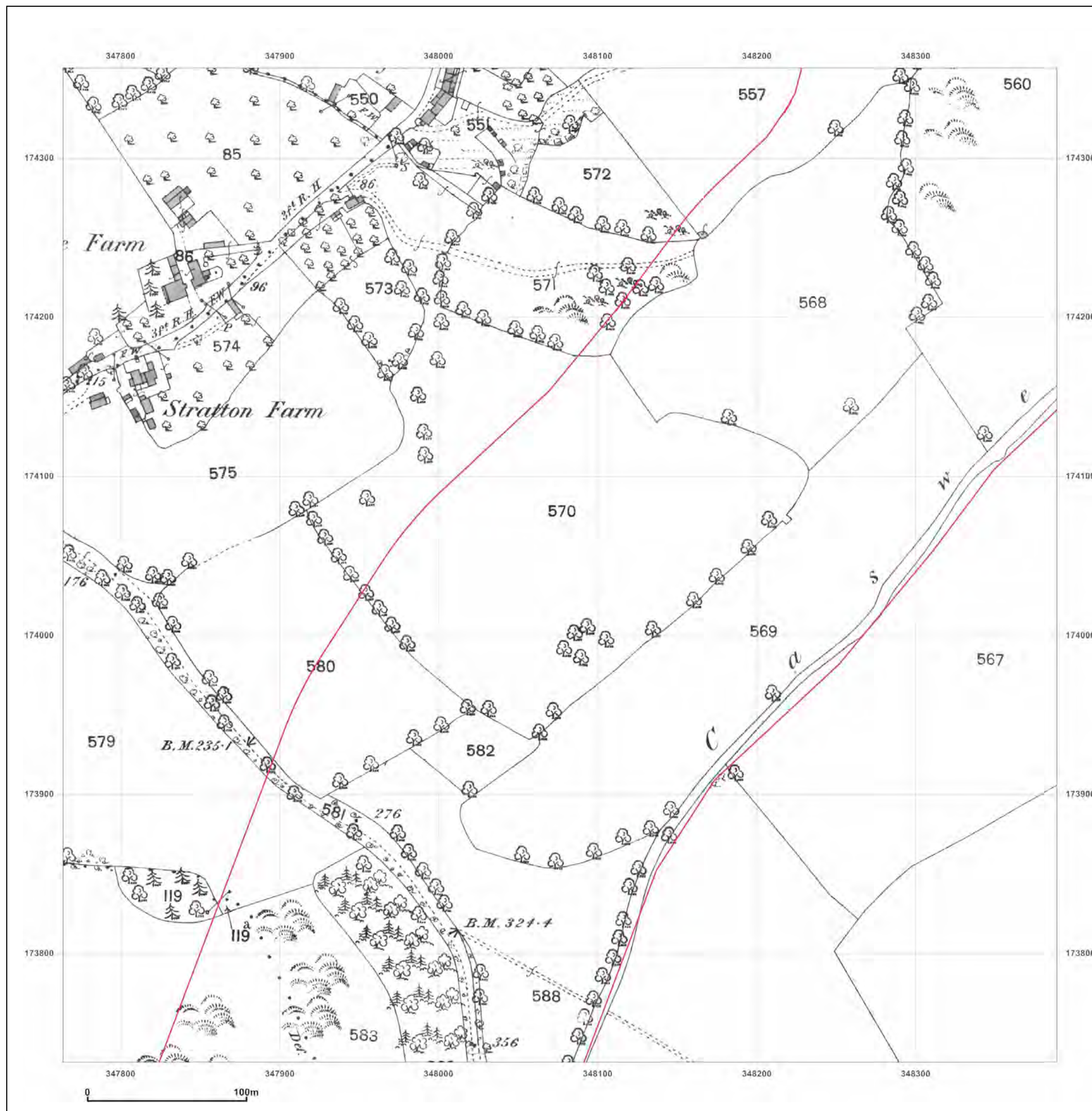


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_J18  
**Grid Ref:** 347344, 172244

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

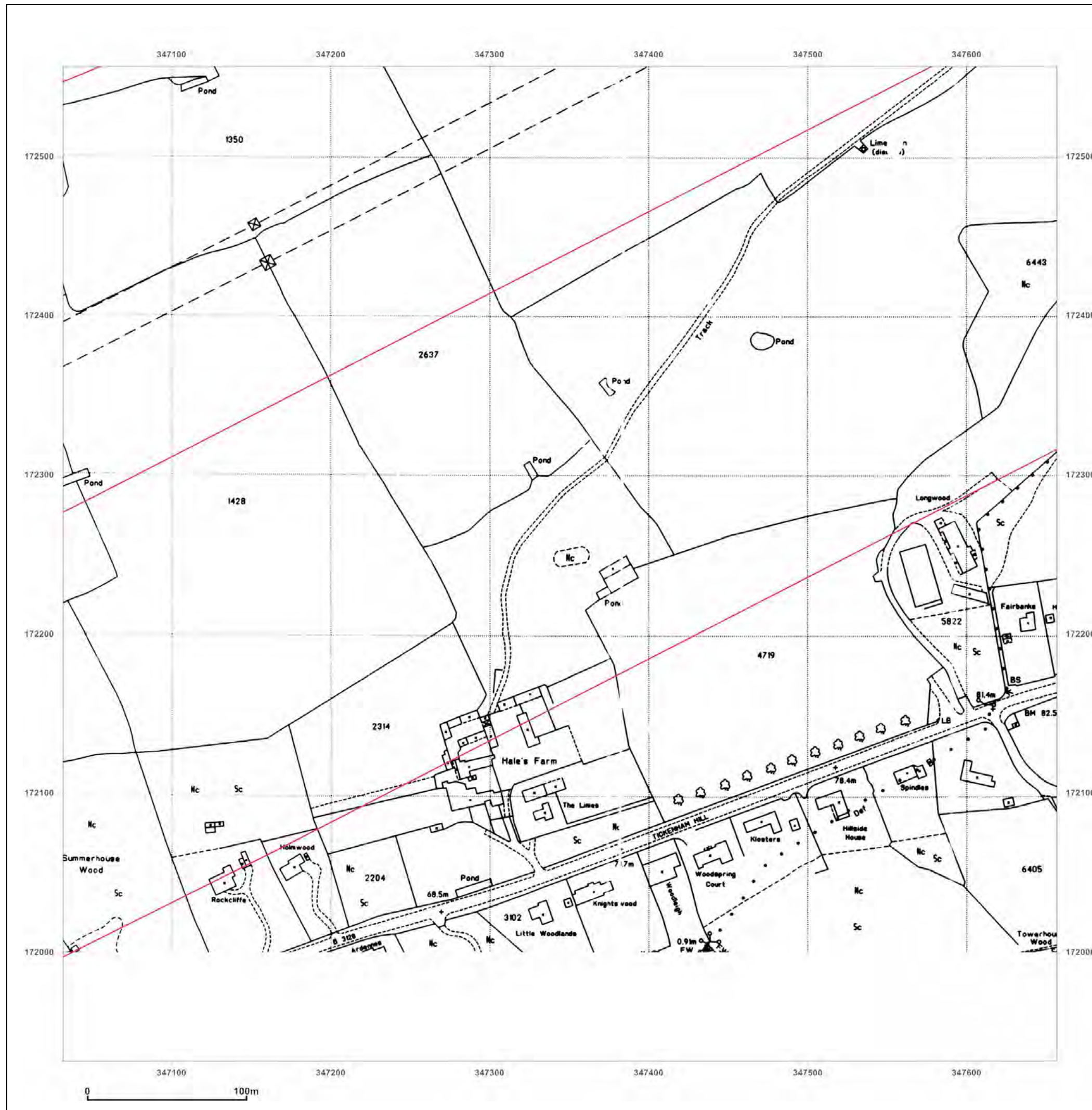


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_J18  
**Grid Ref:** 347344, 172244

**Map Name:** County Series

**Map date:** 1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

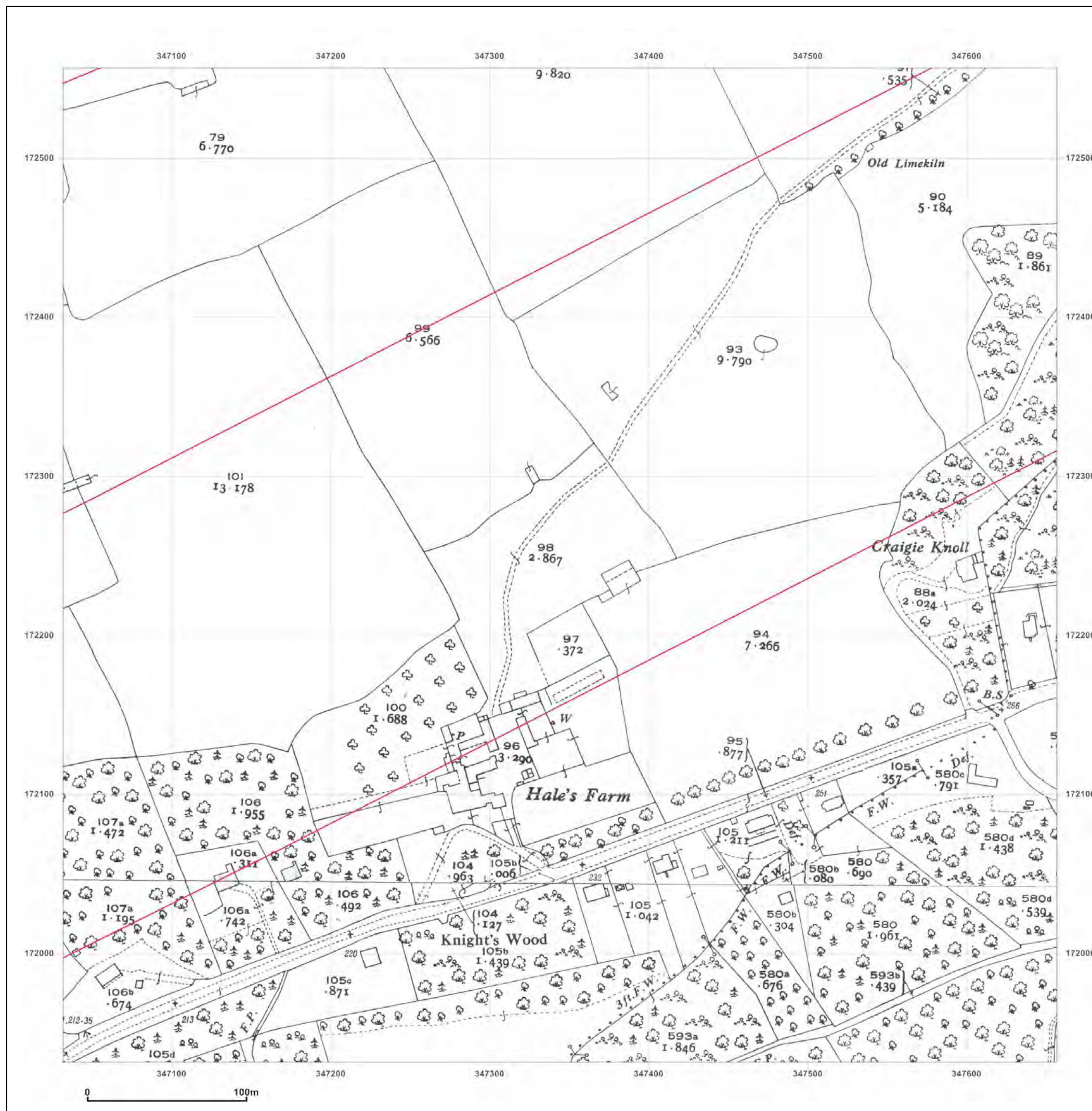


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_J18  
**Grid Ref:** 347344, 172244

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

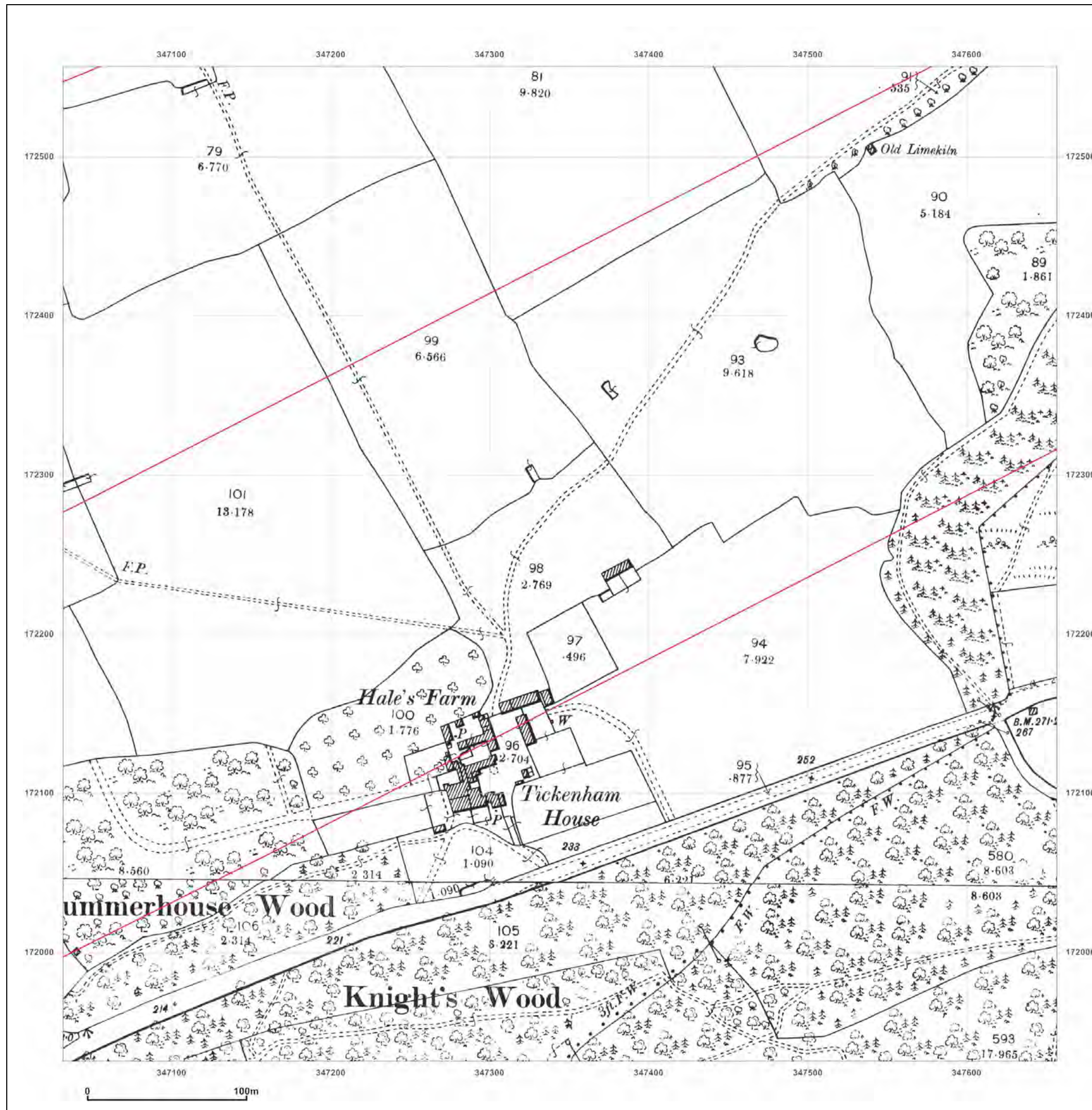


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_J18  
**Grid Ref:** 347344, 172244

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

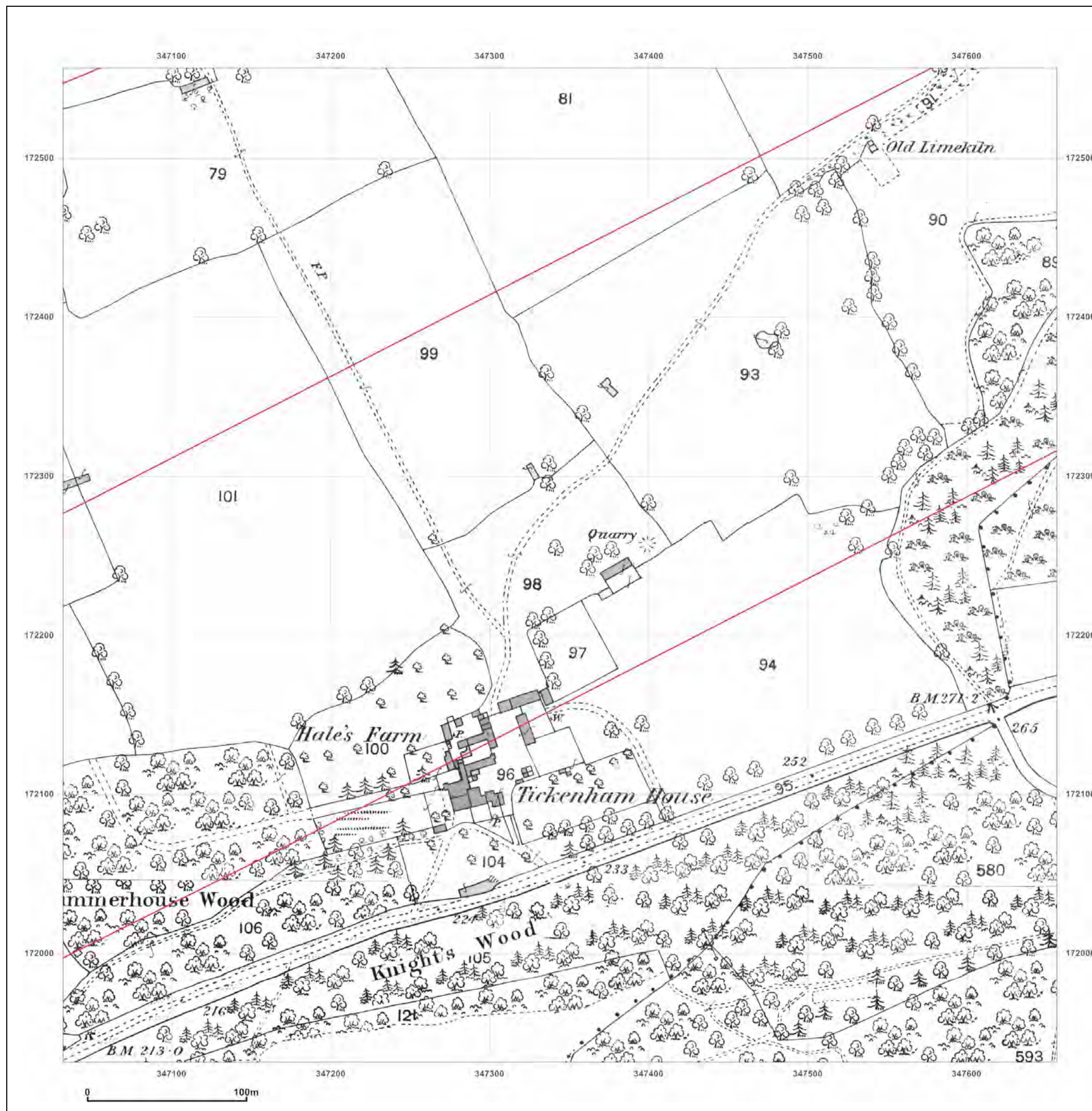


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_J17  
**Grid Ref:** 347326, 172843

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

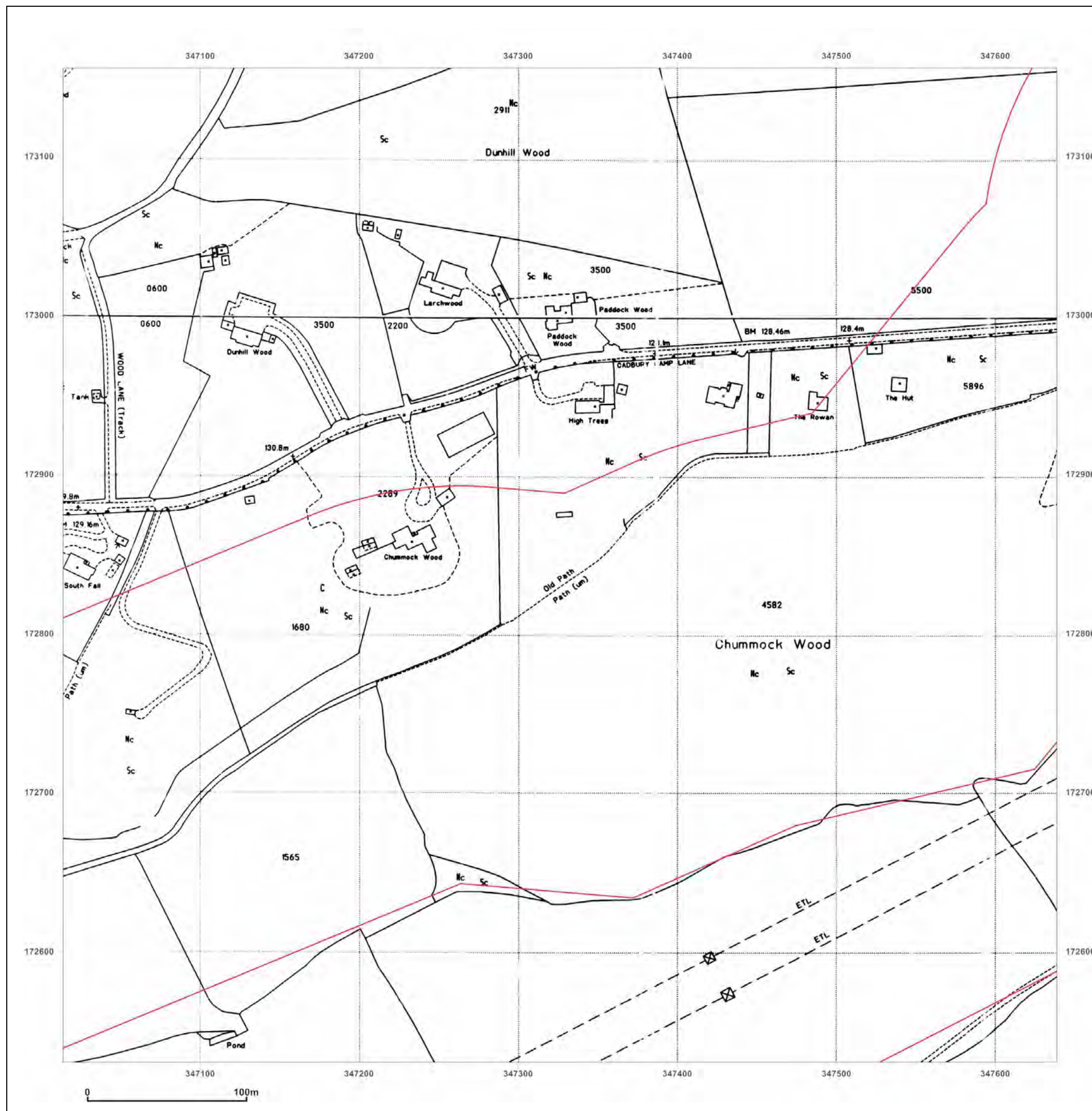


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_J17  
**Grid Ref:** 347326, 172843

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

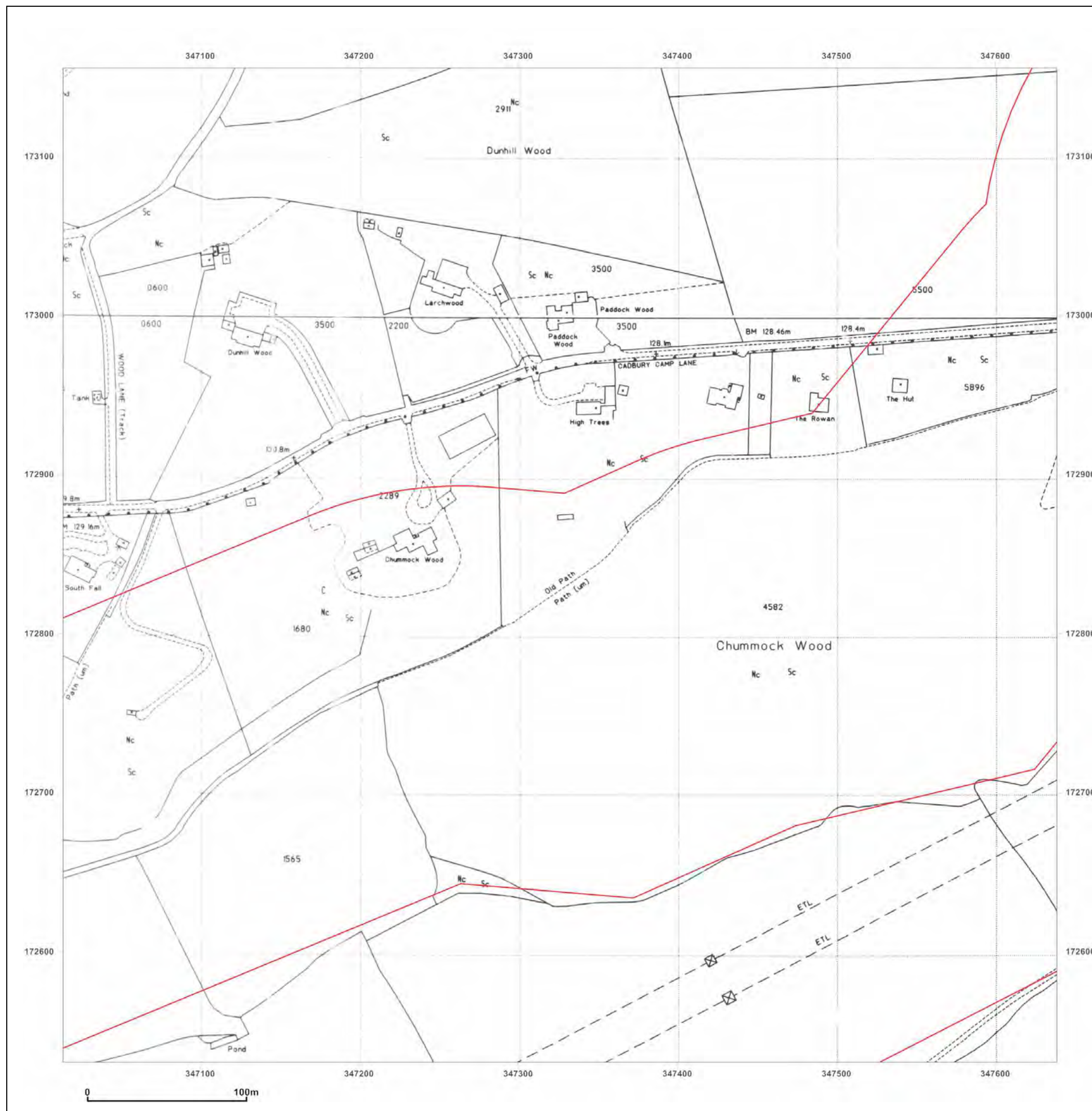


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_J17  
**Grid Ref:** 347326, 172843

**Map Name:** National Grid

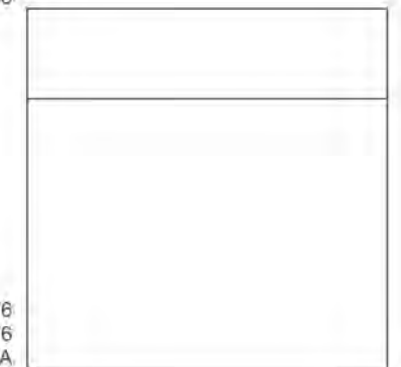
**Map date:** 1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1978  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966



Surveyed 1978  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

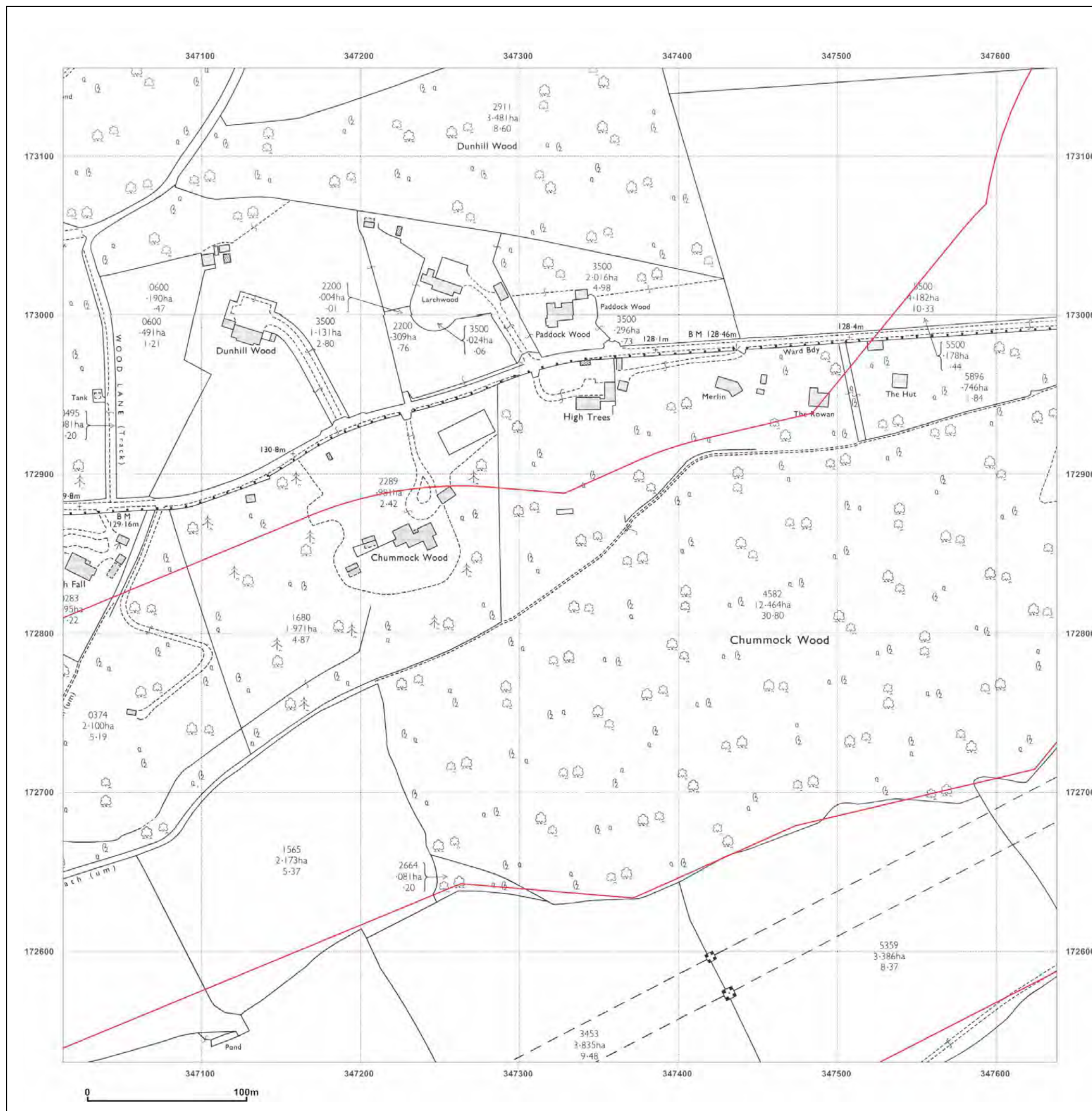


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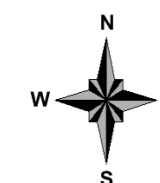
**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_J17  
**Grid Ref:** 347326, 172843

**Map Name:** County Series

**Map date:** 1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

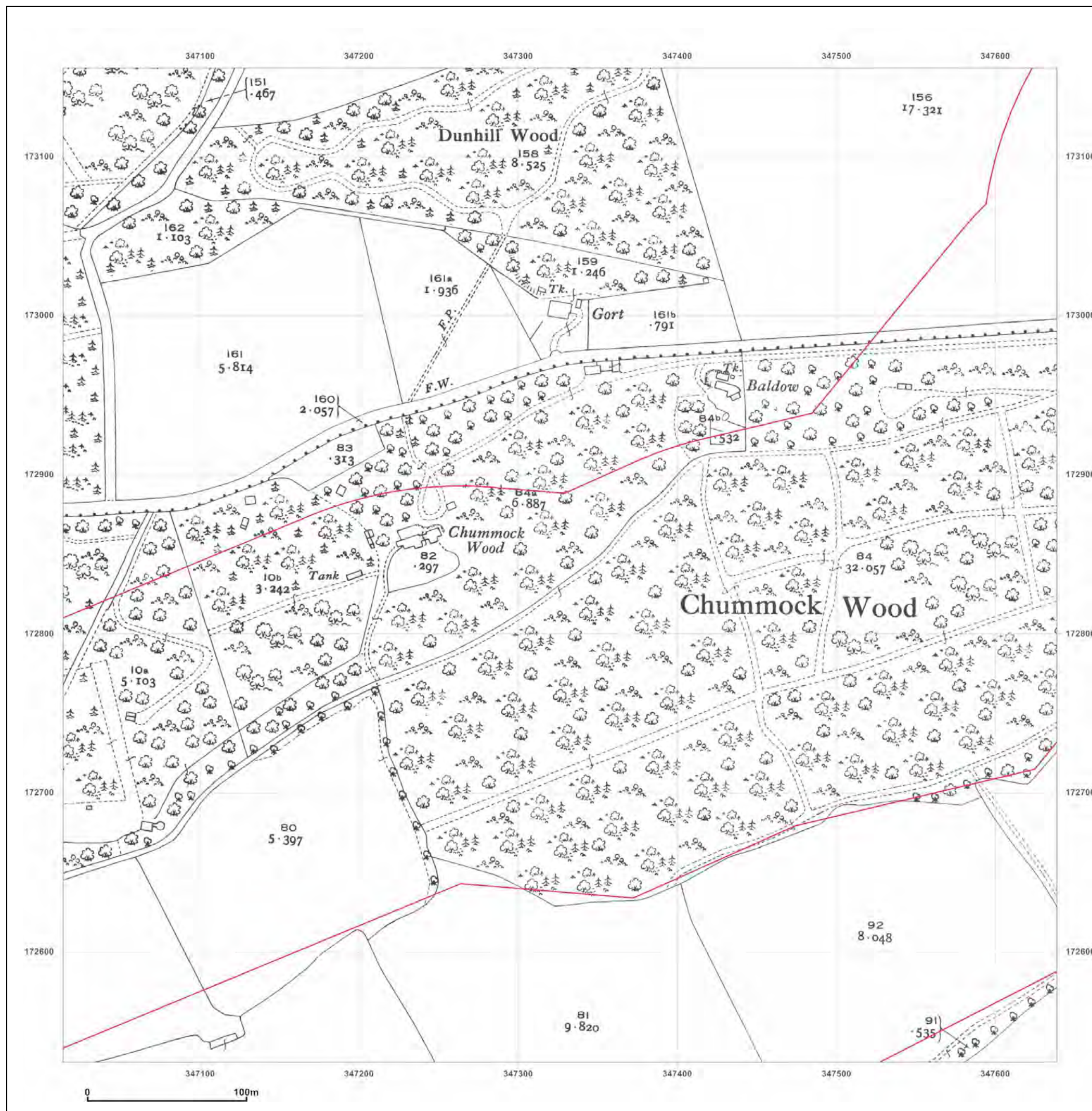


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_J17  
**Grid Ref:** 347326, 172843

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

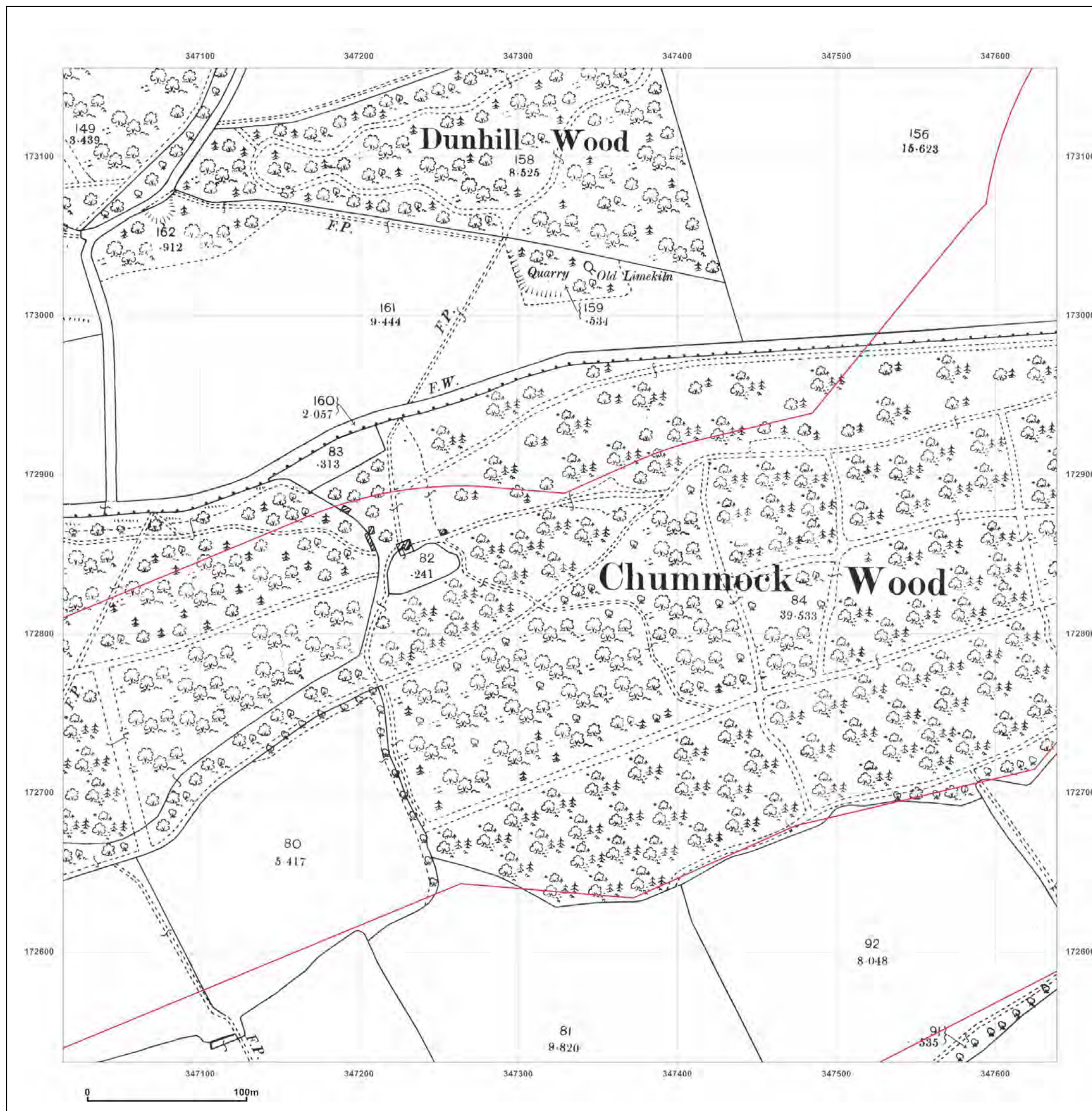


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_J17  
**Grid Ref:** 347326, 172843

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

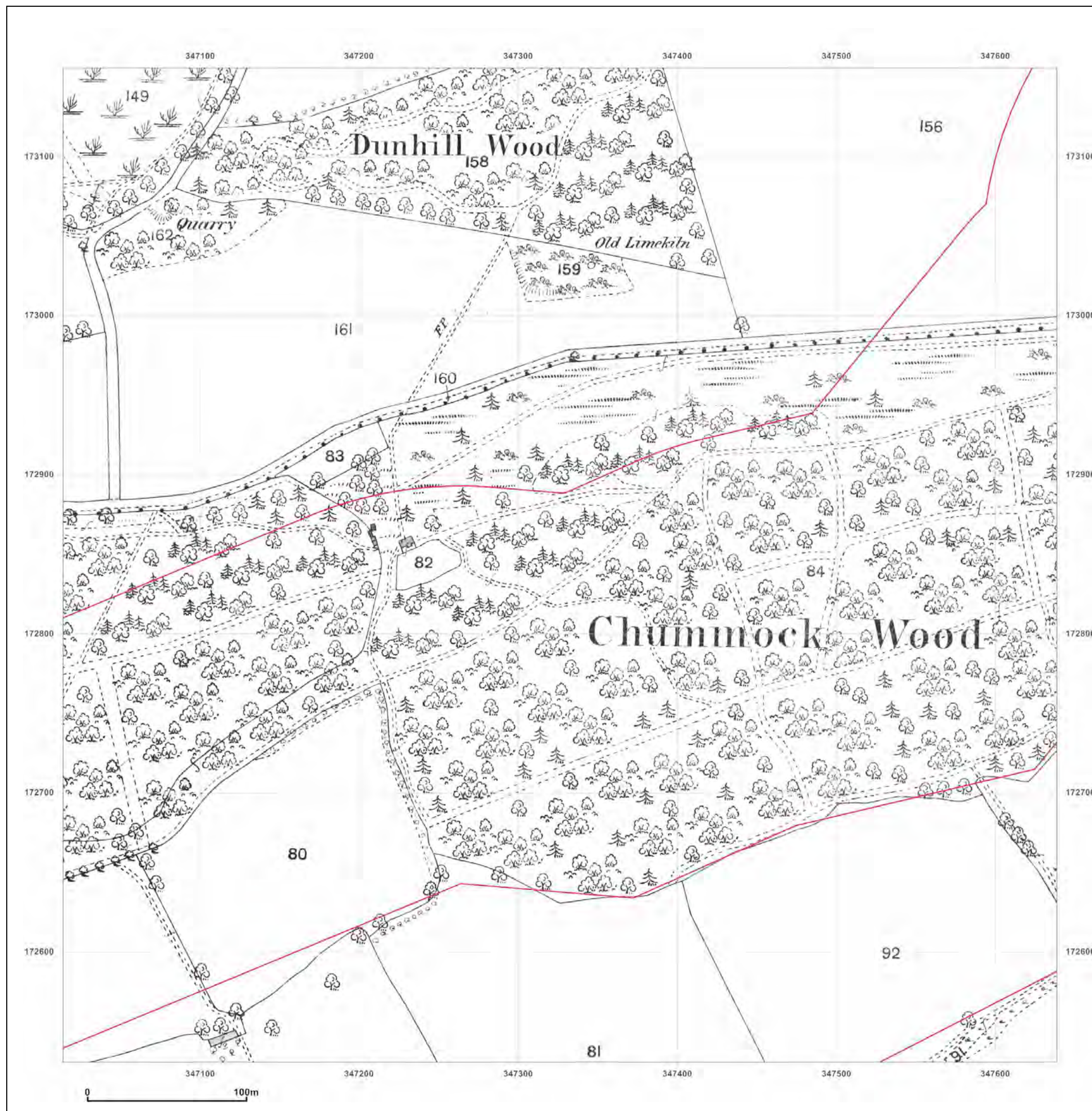


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_I18  
**Grid Ref:** 346745, 172244

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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

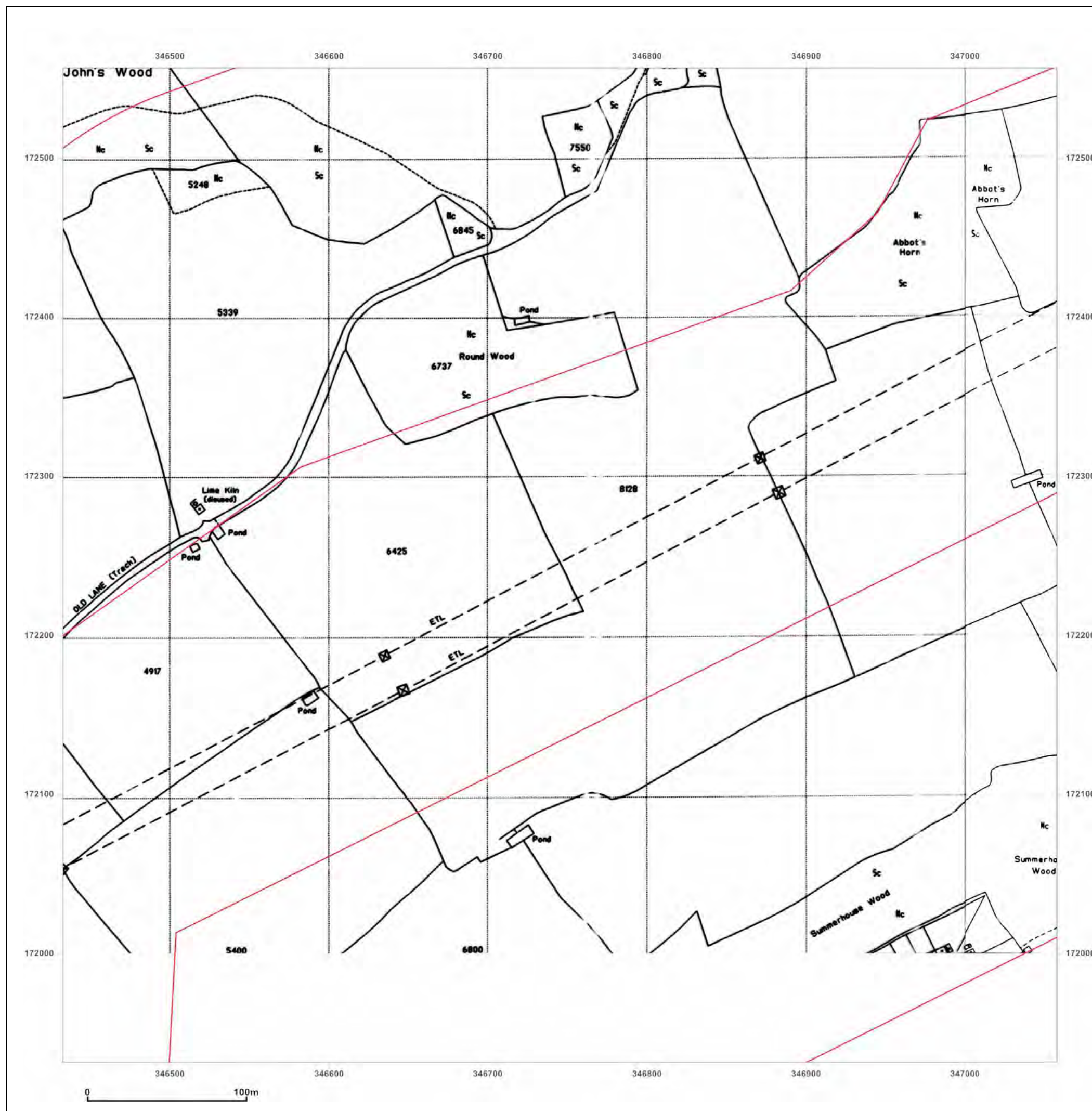


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**Site Details:**

Hinkley Project

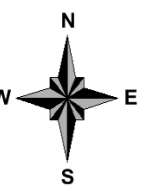
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**Report Ref:** HMD-278-816308\_7\_LS\_I18  
**Grid Ref:** 346745, 172244

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

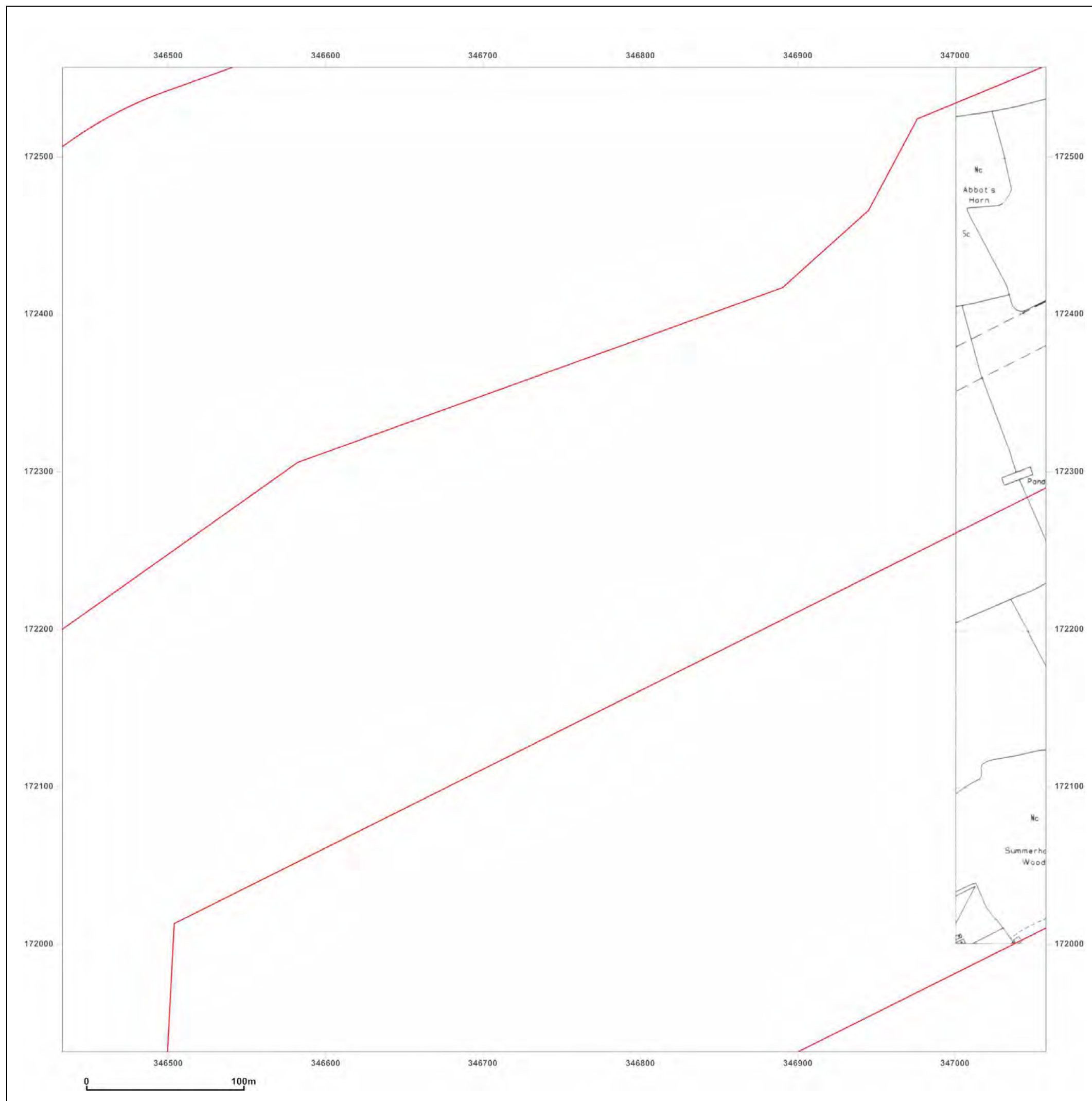


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# Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_I18  
**Grid Ref:** 346745, 172244

**Map Name:** National Grid

**Map date:** 1971-1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed N/A  
 Revised 1971  
 Edition N/A  
 Copyright 1972  
 Levelled 1966

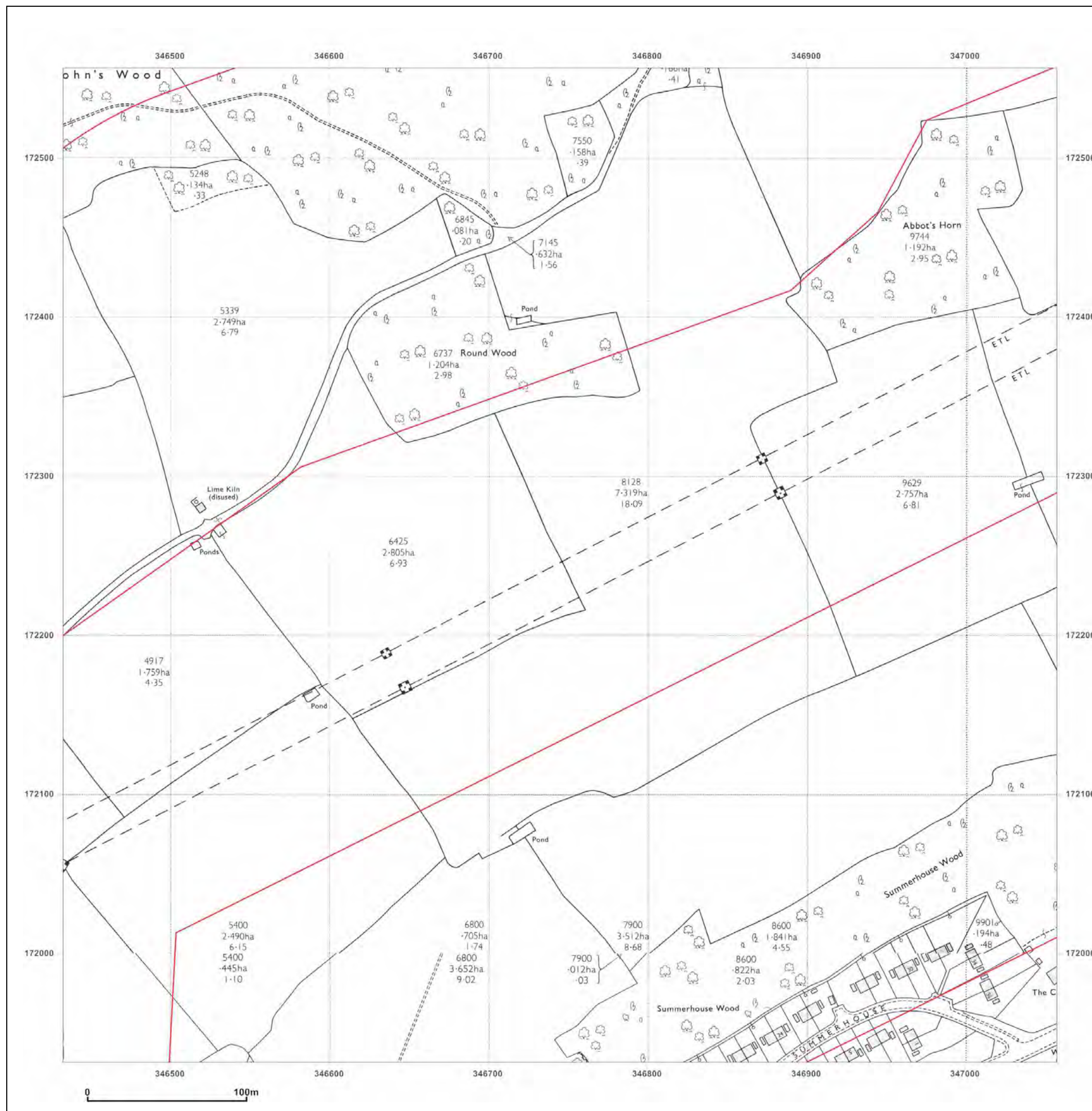


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#### Site Details:

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**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_I18  
**Grid Ref:** 346745, 172244

**Map Name:** County Series

**Map date:** 1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

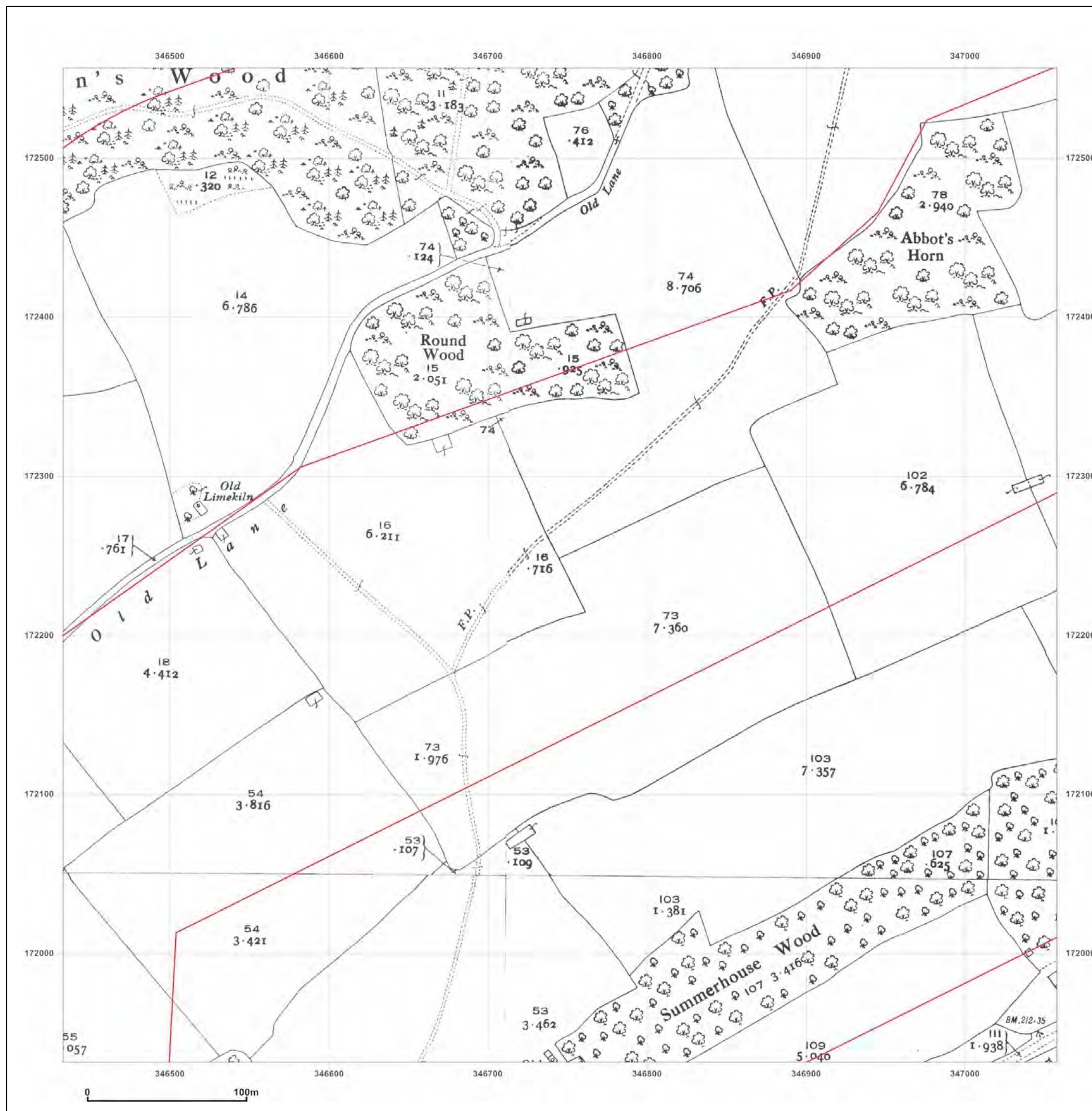


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_I18  
**Grid Ref:** 346745, 172244

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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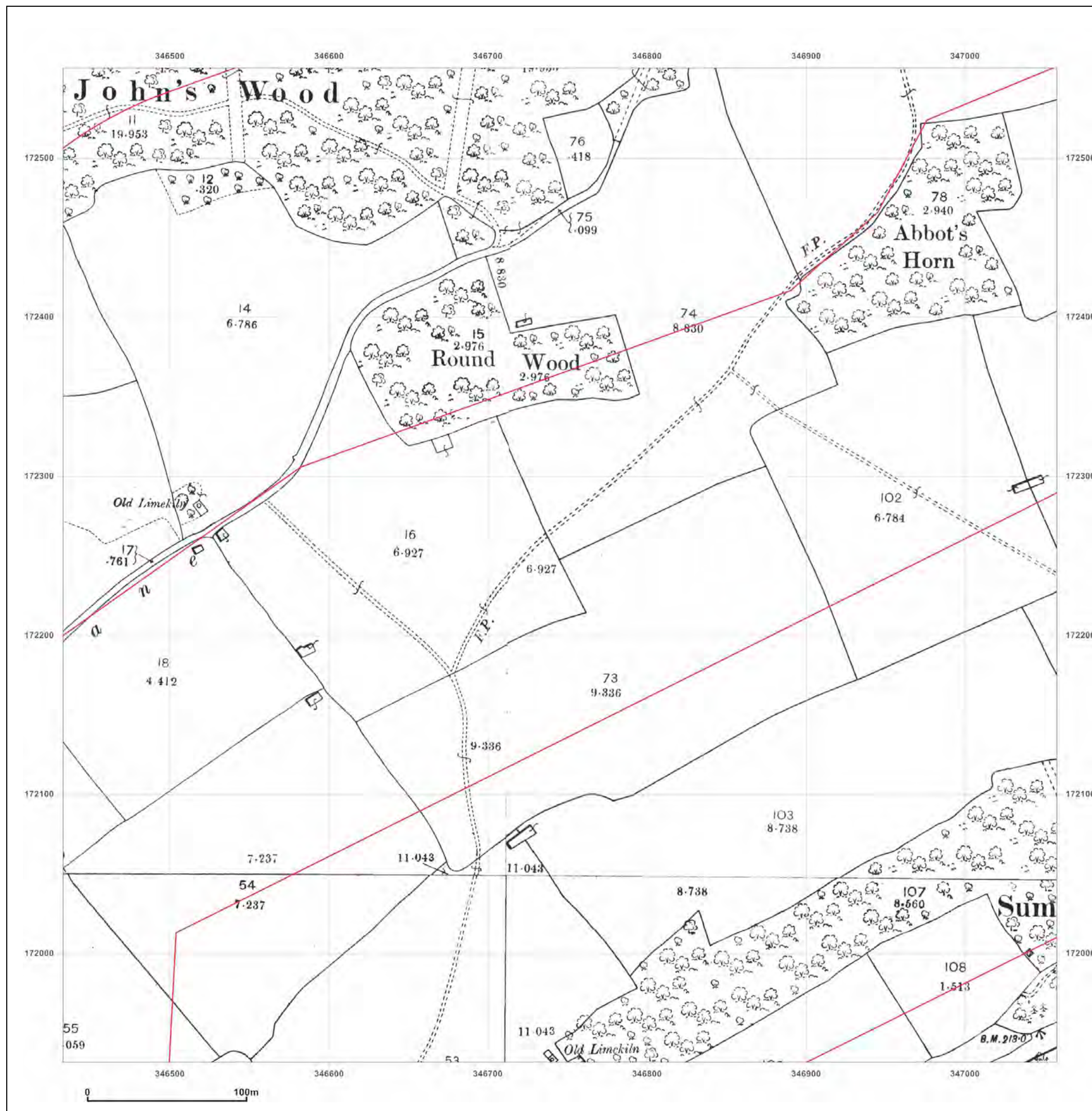


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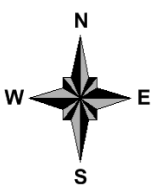
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**Report Ref:** HMD-278-816308\_7\_LS\_I18  
**Grid Ref:** 346745, 172244

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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 Edition N/A  
 Copyright N/A  
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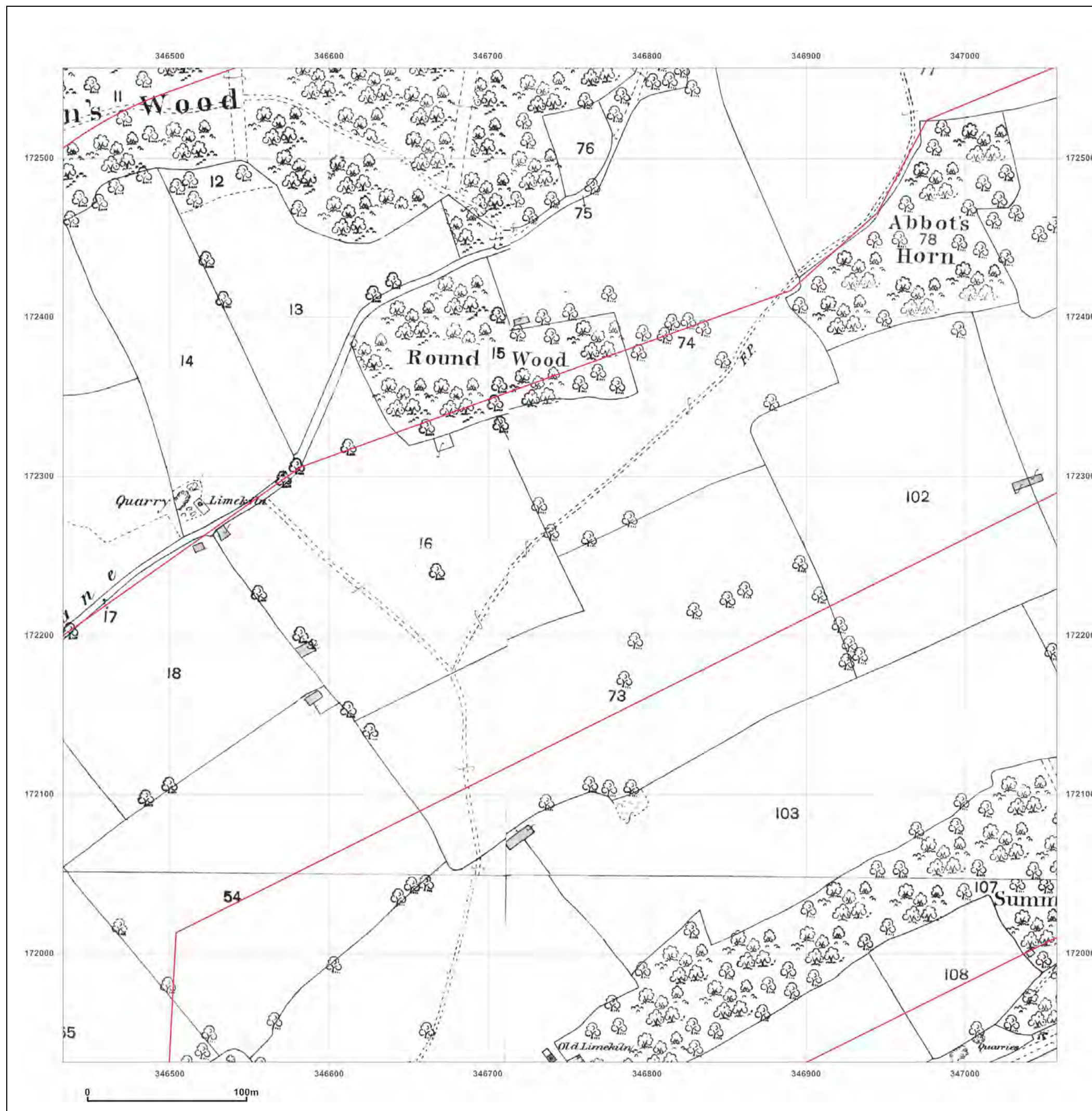


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_I17  
**Grid Ref:** 346726, 172843

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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 Edition N/A  
 Copyright 1992  
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 Copyright 1992  
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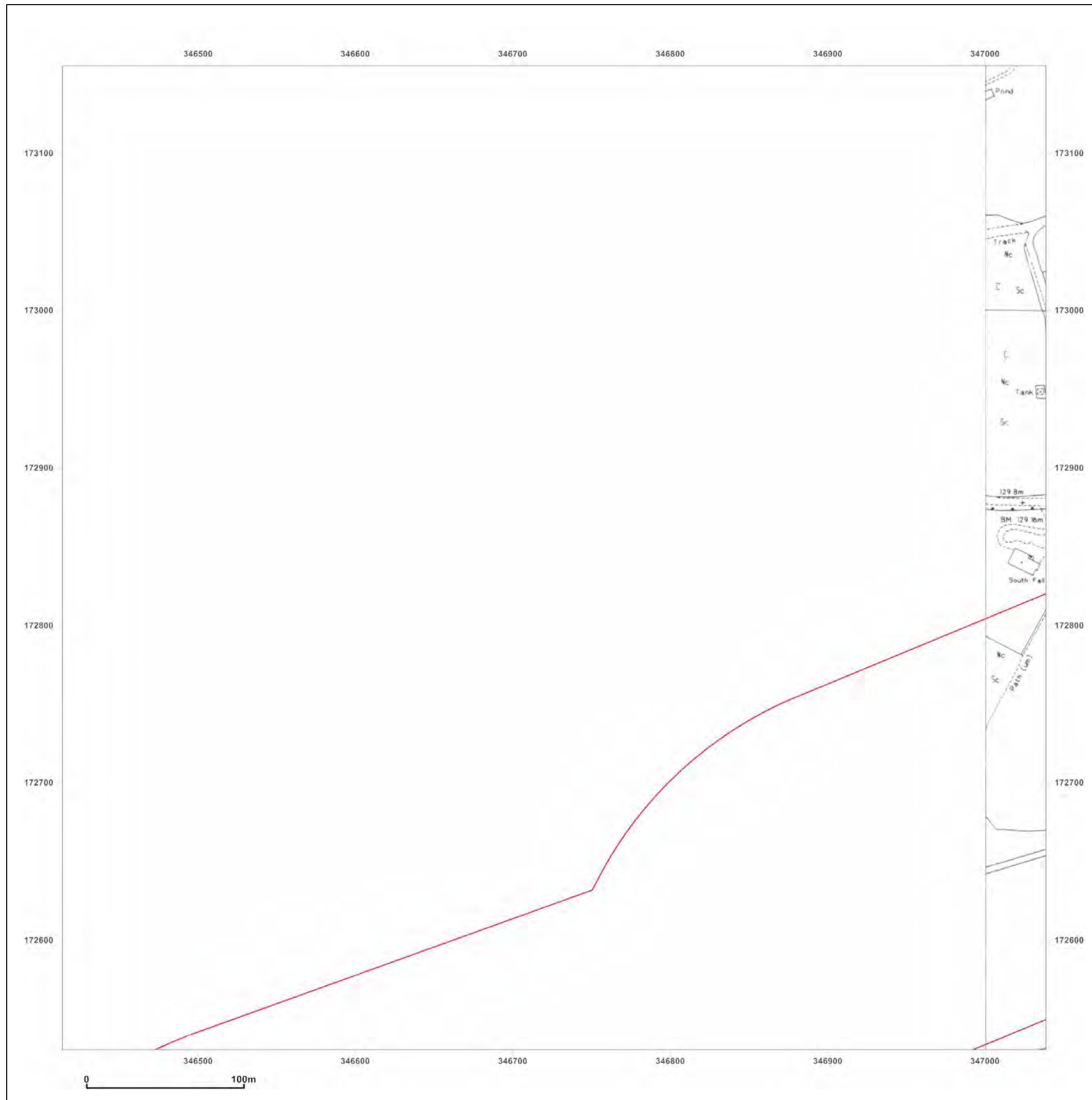
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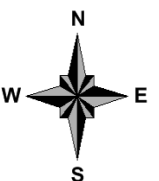




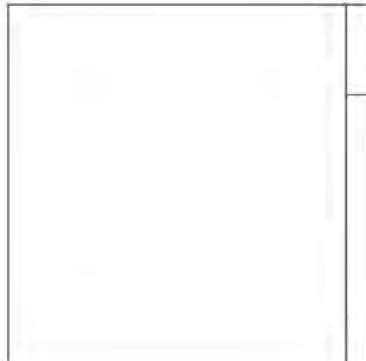
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**Report Ref:** HMD-278-816308\_7\_LS\_I17  
**Grid Ref:** 346726, 172843

**Map Name:** National Grid  
**Map date:** 1992  
**Scale:** 1:2,500  
**Printed at:** 1:2,500



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



#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_I17  
**Grid Ref:** 346726, 172843

**Map Name:** National Grid

**Map date:** 1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

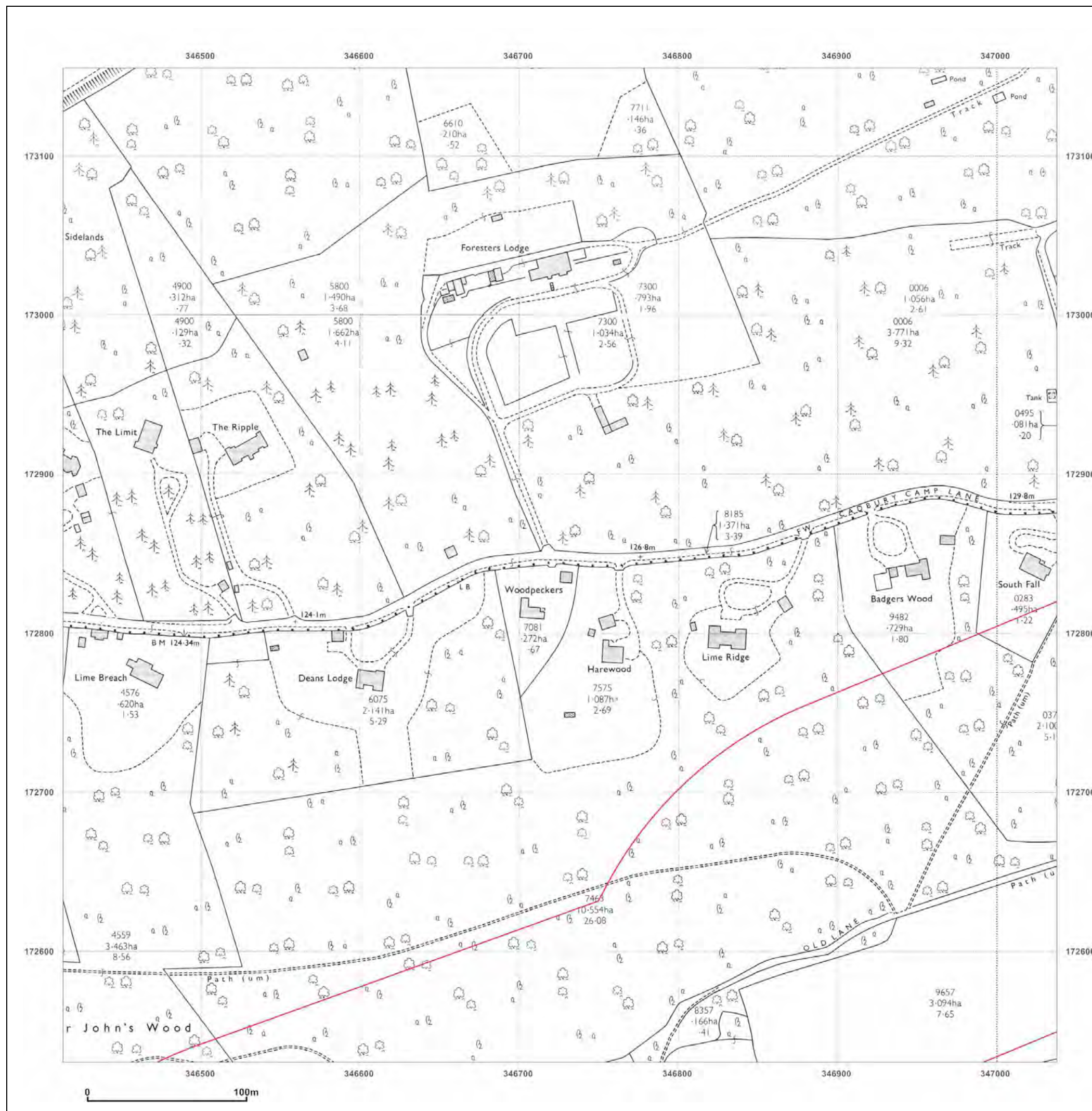


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_I17  
**Grid Ref:** 346726, 172843

**Map Name:** County Series

**Map date:** 1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



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 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

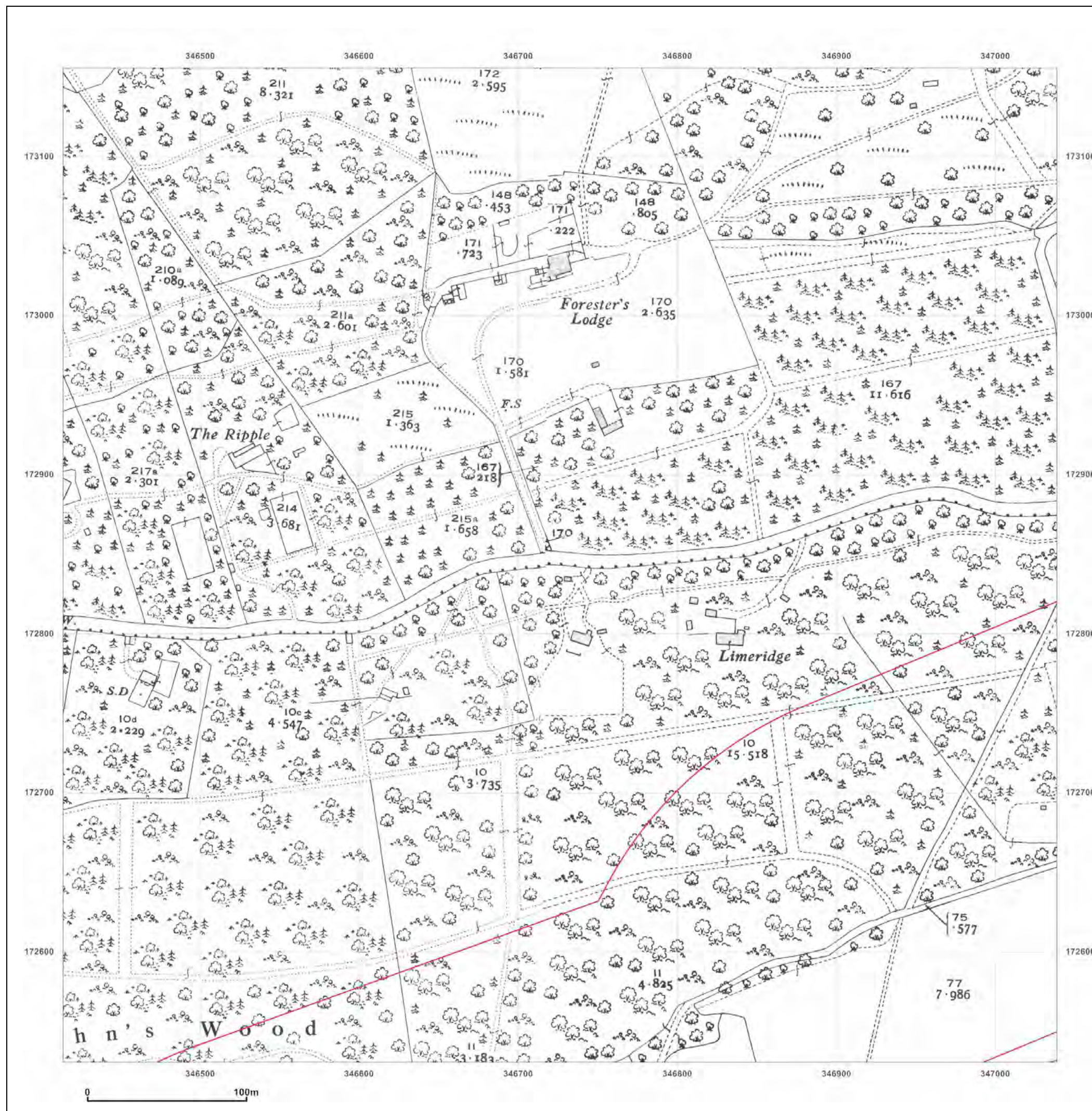


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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_I17  
**Grid Ref:** 346726, 172843

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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 Edition N/A  
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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_I17  
**Grid Ref:** 346726, 172843

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

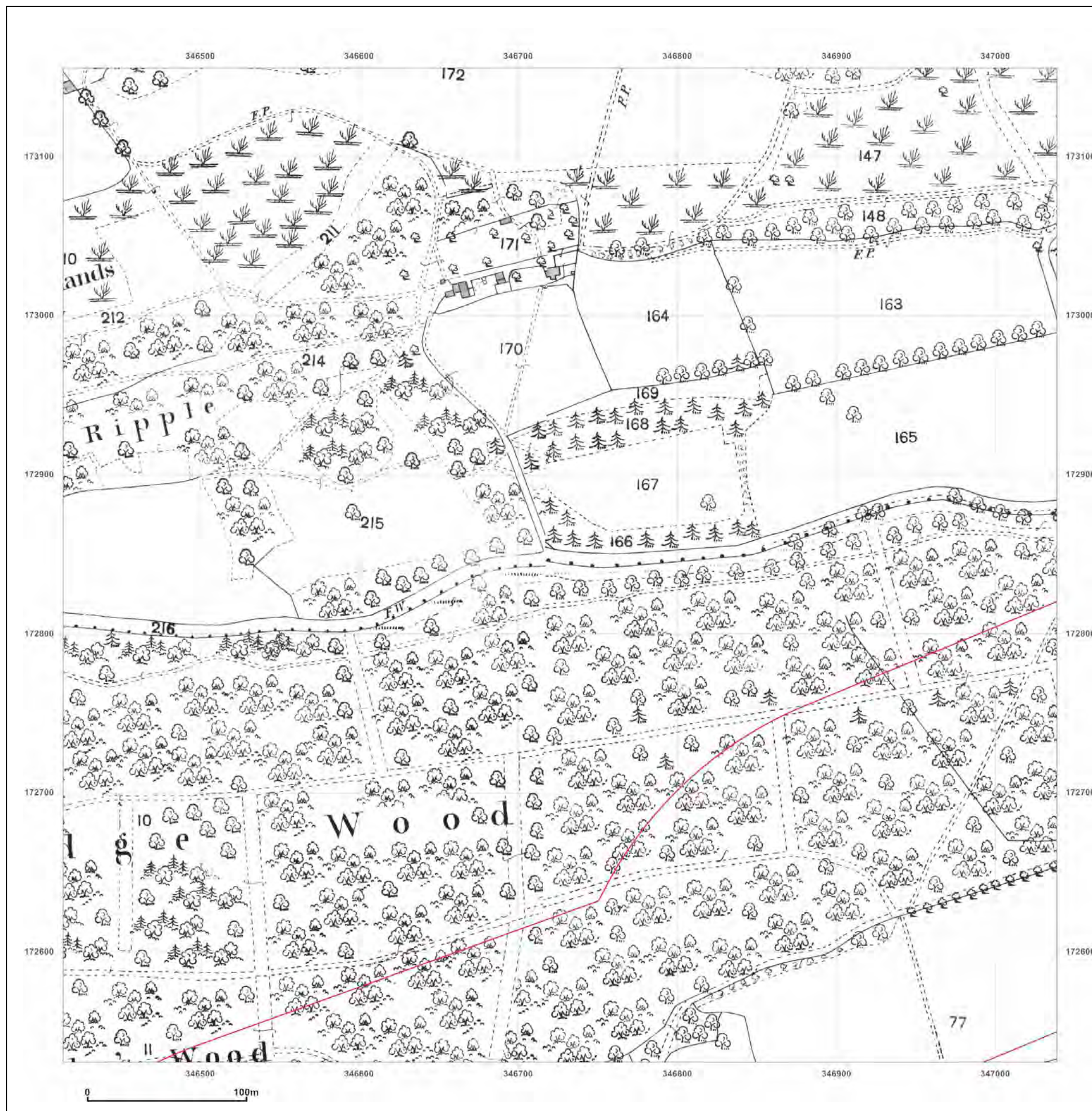


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_H18  
**Grid Ref:** 346144, 172244

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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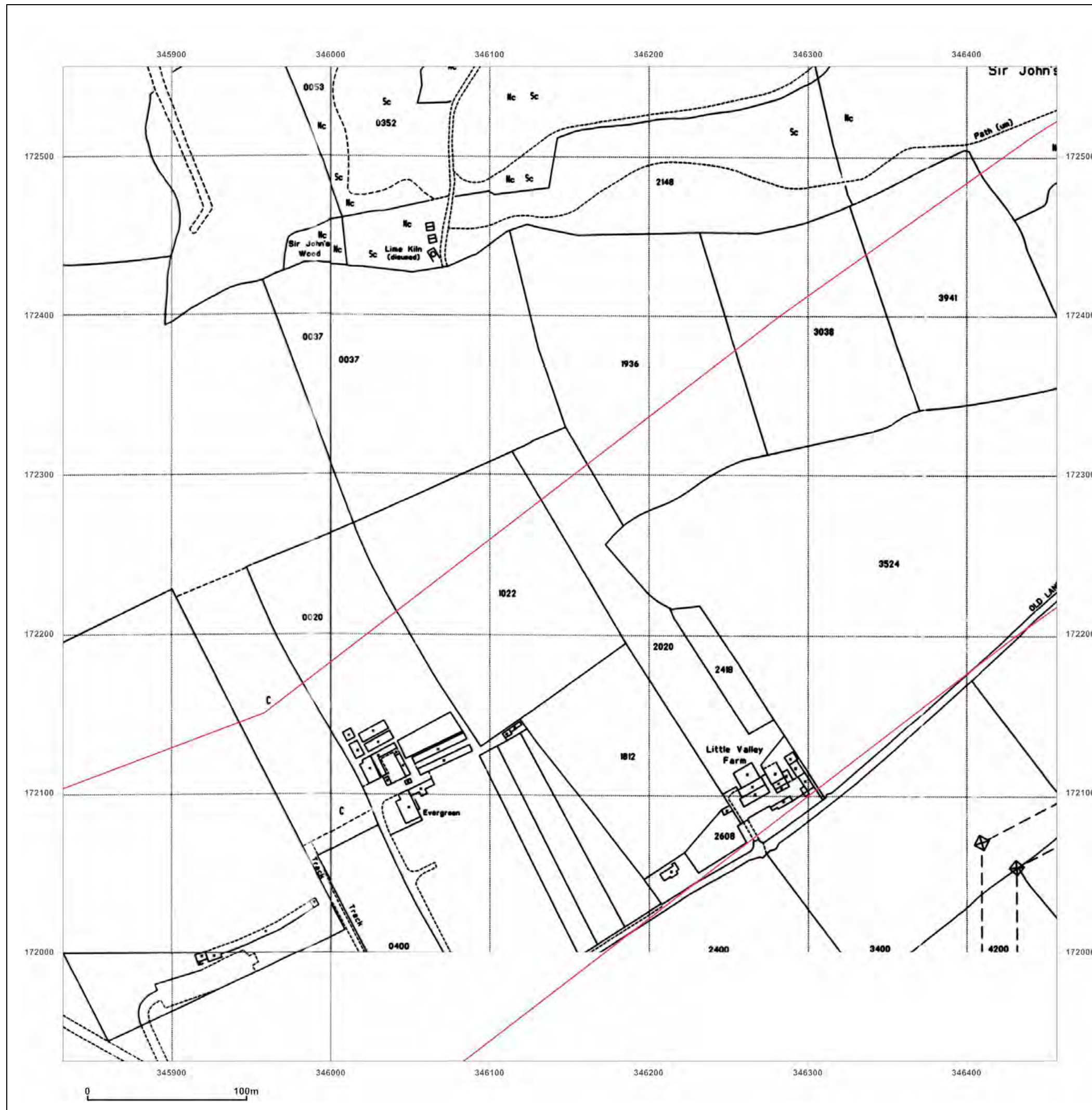


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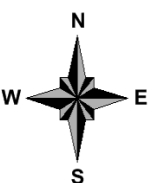
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**Grid Ref:** 346144, 172244

**Map Name:** National Grid

**Map date:** 1971-1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



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 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1976  
 Revised 1976  
 Edition N/A  
 Copyright 1977  
 Levelled 1966

Surveyed 1976  
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 Edition N/A  
 Copyright 1977  
 Levelled 1966

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 Edition N/A  
 Copyright 1972  
 Levelled 1966

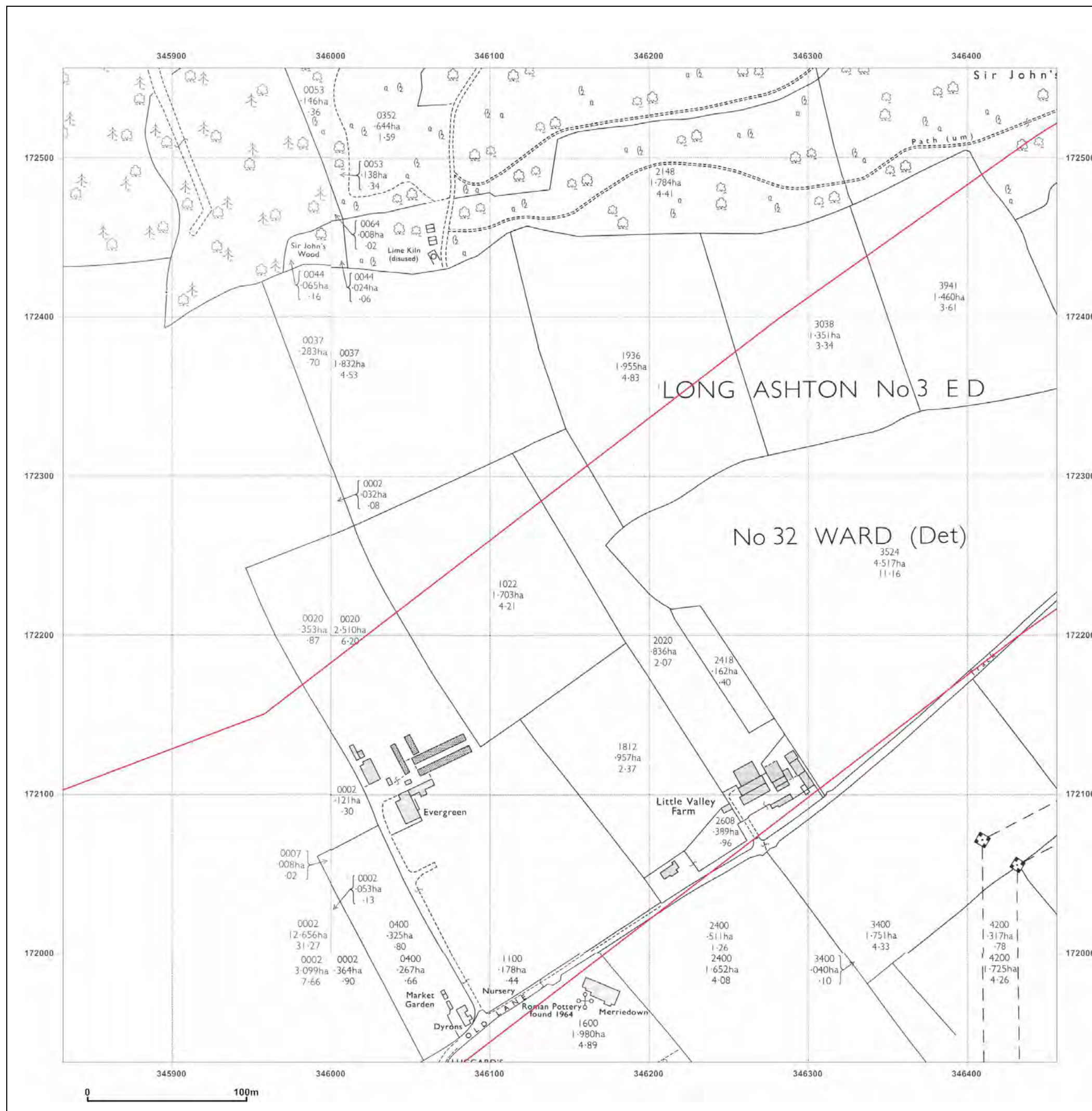


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_H18  
**Grid Ref:** 346144, 172244

**Map Name:** County Series

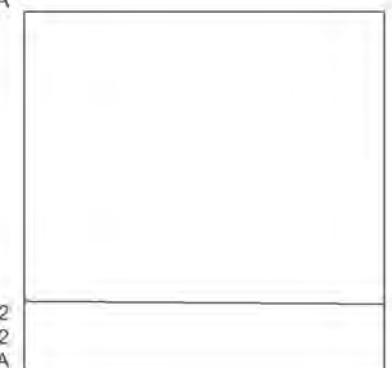
**Map date:** 1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



Surveyed 1932  
 Revised 1932  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

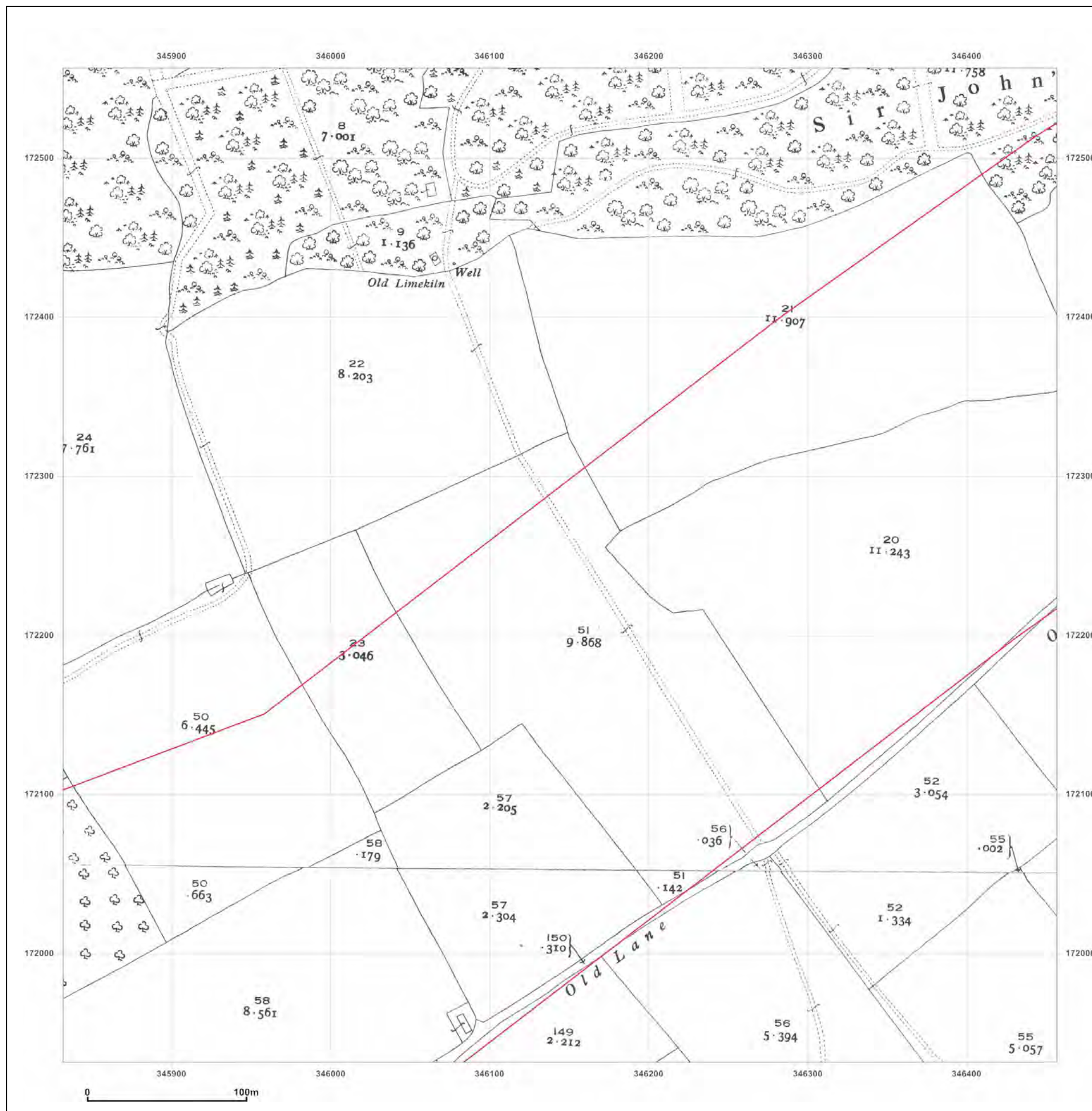


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**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_H18  
**Grid Ref:** 346144, 172244

**Map Name:** County Series

**Map date:** 1903

**Scale:** 1:2,500

**Printed at:** 1:2,500



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



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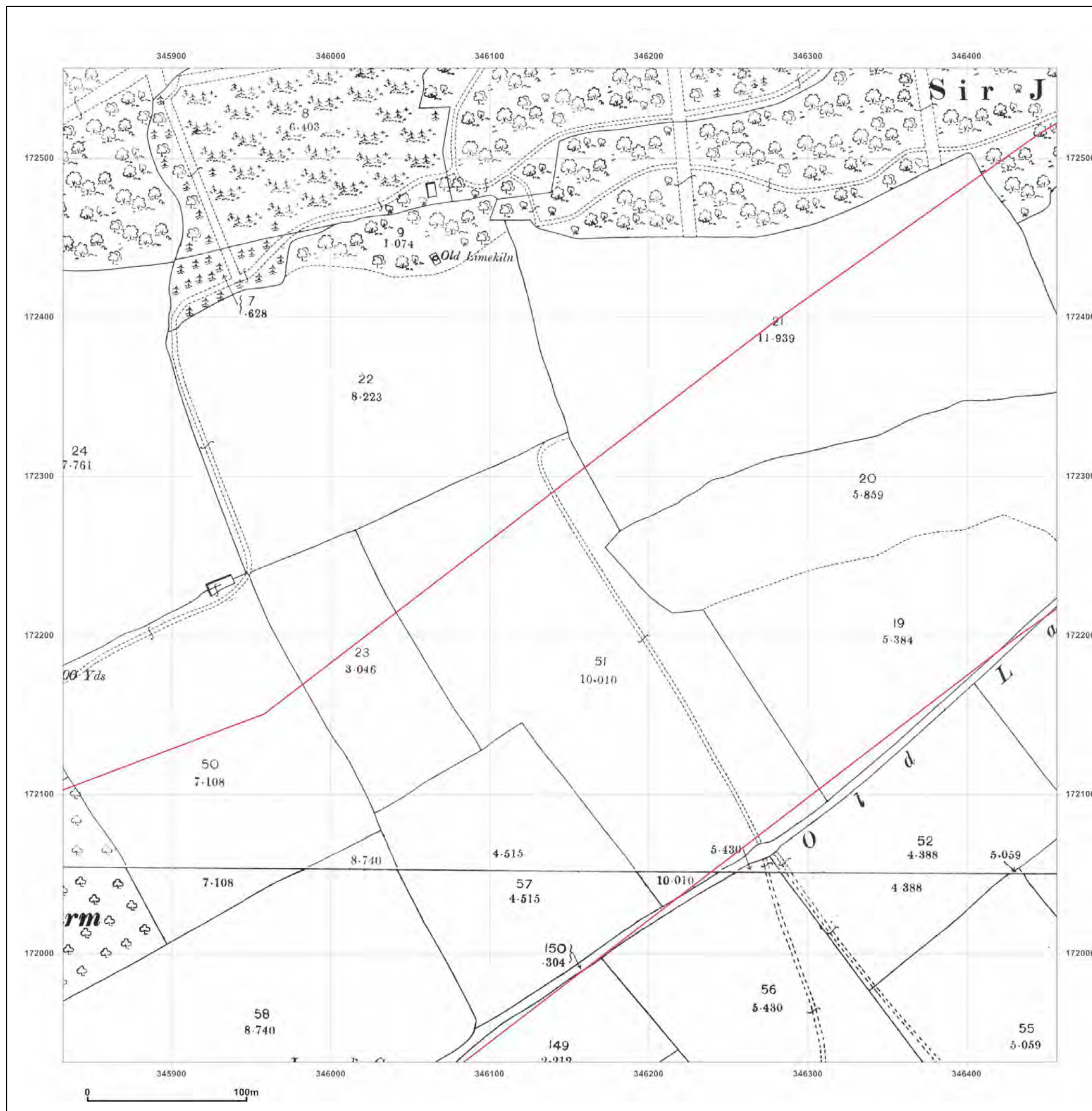


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**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_H18  
**Grid Ref:** 346144, 172244

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

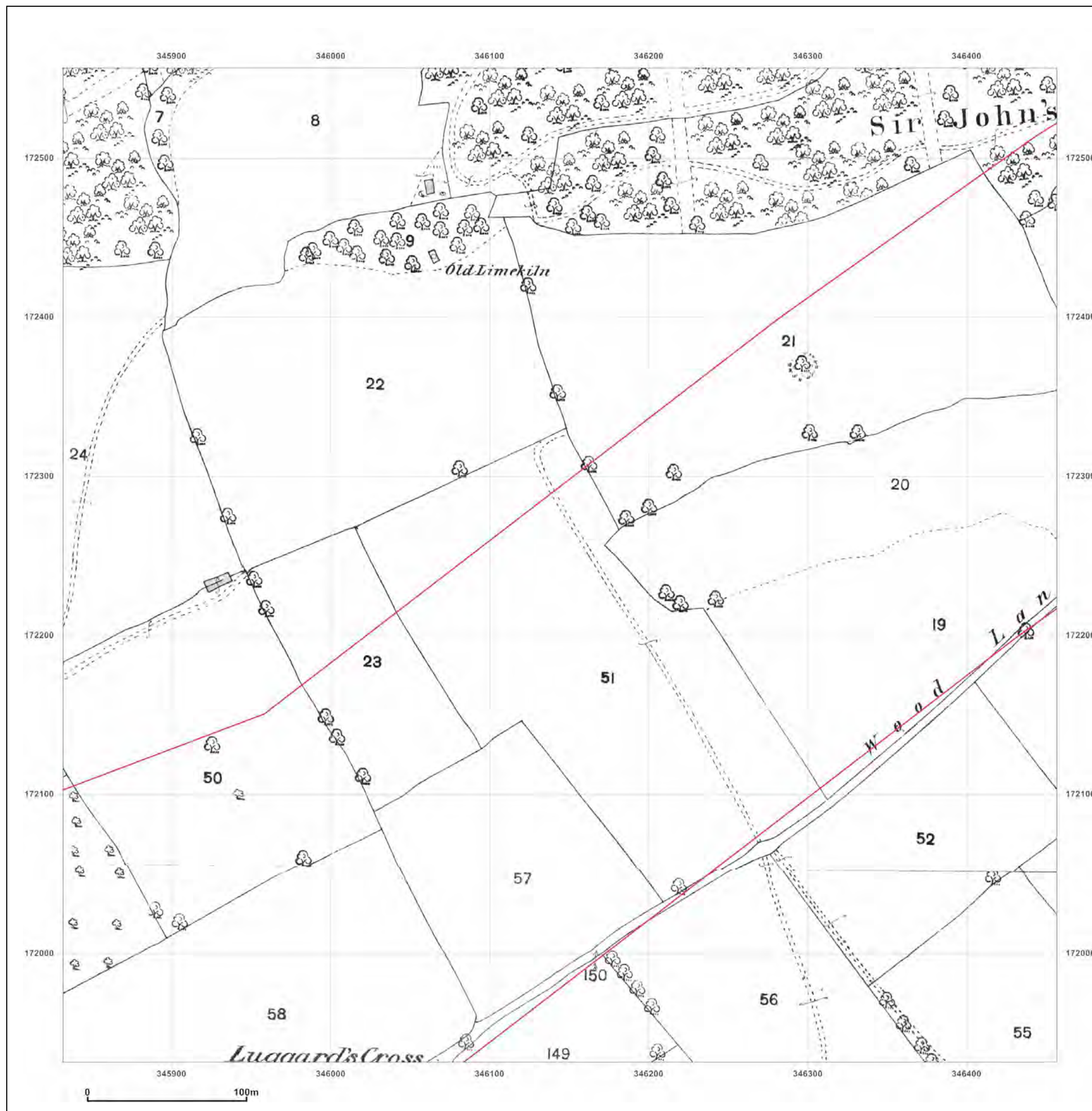


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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_G18  
**Grid Ref:** 345544, 172244

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:2,500

**Printed at:** 1:2,500



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 Edition N/A  
 Copyright 1992  
 Levelled N/A

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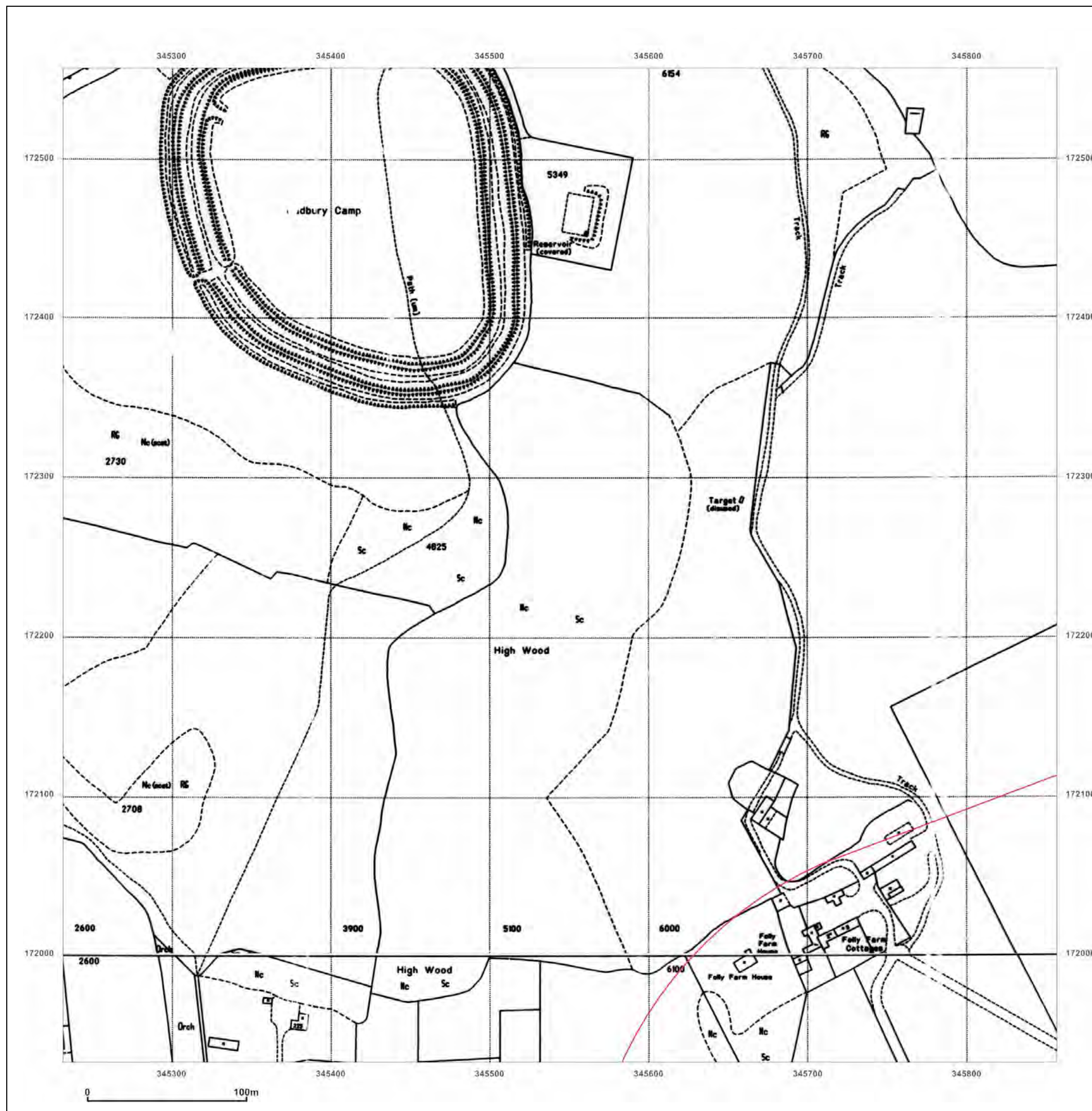


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**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_G18  
**Grid Ref:** 345544, 172244

**Map Name:** National Grid

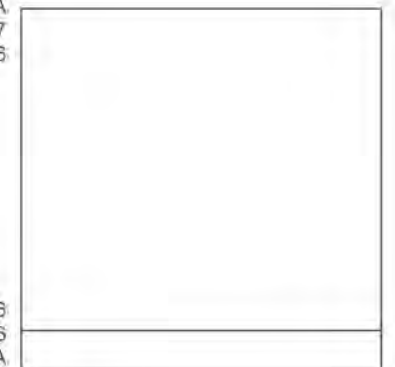
**Map date:** 1976

**Scale:** 1:2,500

**Printed at:** 1:2,500



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 Edition N/A  
 Copyright 1977  
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Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_G18  
**Grid Ref:** 345544, 172244

**Map Name:** County Series

**Map date:** 1932

**Scale:** 1:2,500

**Printed at:** 1:2,500



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 Edition N/A  
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 Levelled N/A

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 Revised 1932  
 Edition N/A  
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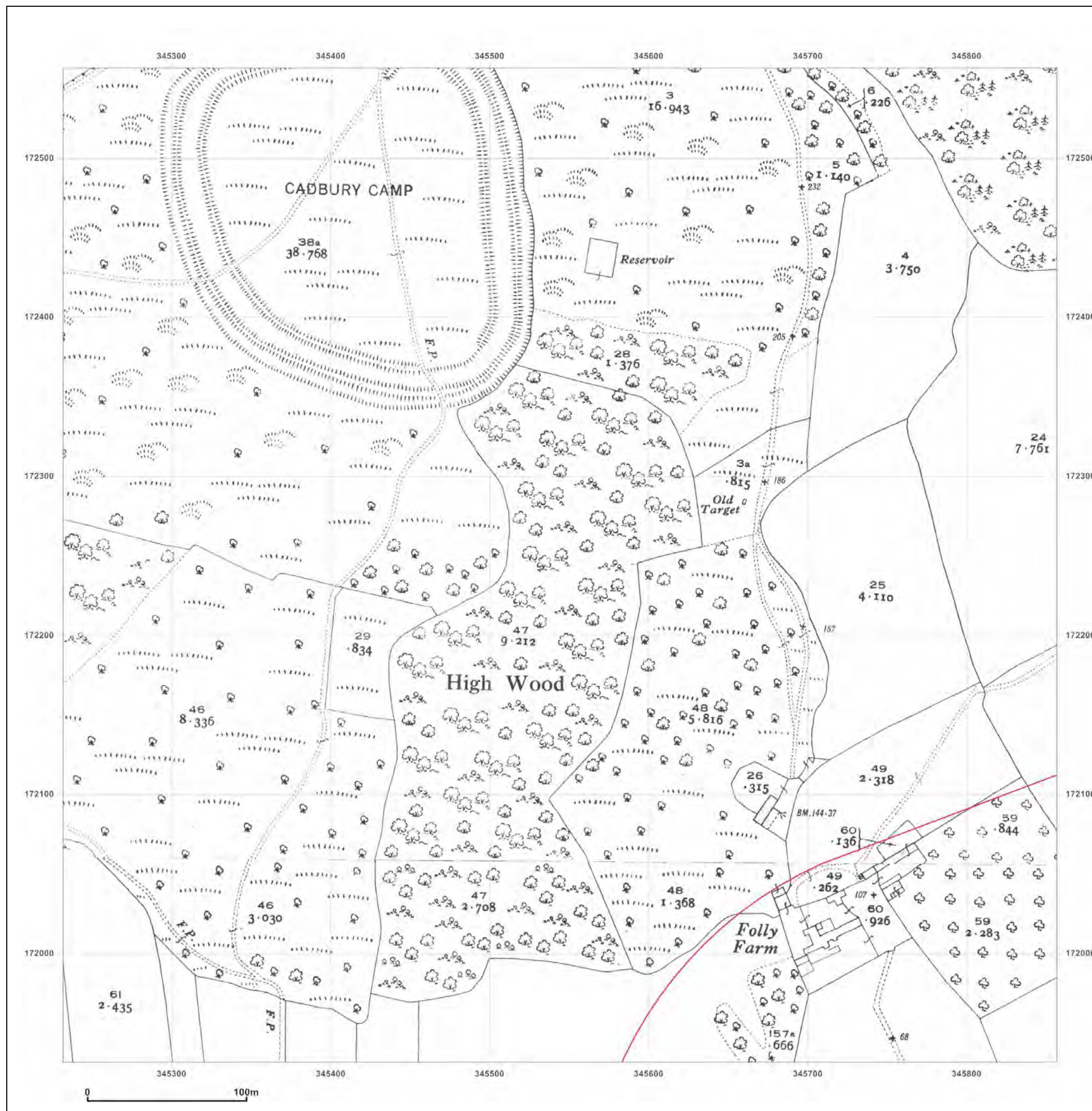


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#### Site Details:

Hinkley Project

**Client Ref:** Hinkley Project; 13\_PO\_100.  
**Report Ref:** HMD-278-816308\_7\_LS\_G18  
**Grid Ref:** 345544, 172244

**Map Name:** County Series

**Map date:** 1884

**Scale:** 1:2,500

**Printed at:** 1:2,500



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