Tritax Symmetry (Hinckley) Limited

HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

The Hinckley National Rail Freight Interchange Development Consent Order

Project reference TR050007

ES Appendix 15.1: Phase 1 Geo-Environmental Assessment (Part 3 of 4)

Report Prepared by: BWB Consulting Ltd

Document reference: 16.2.15.1

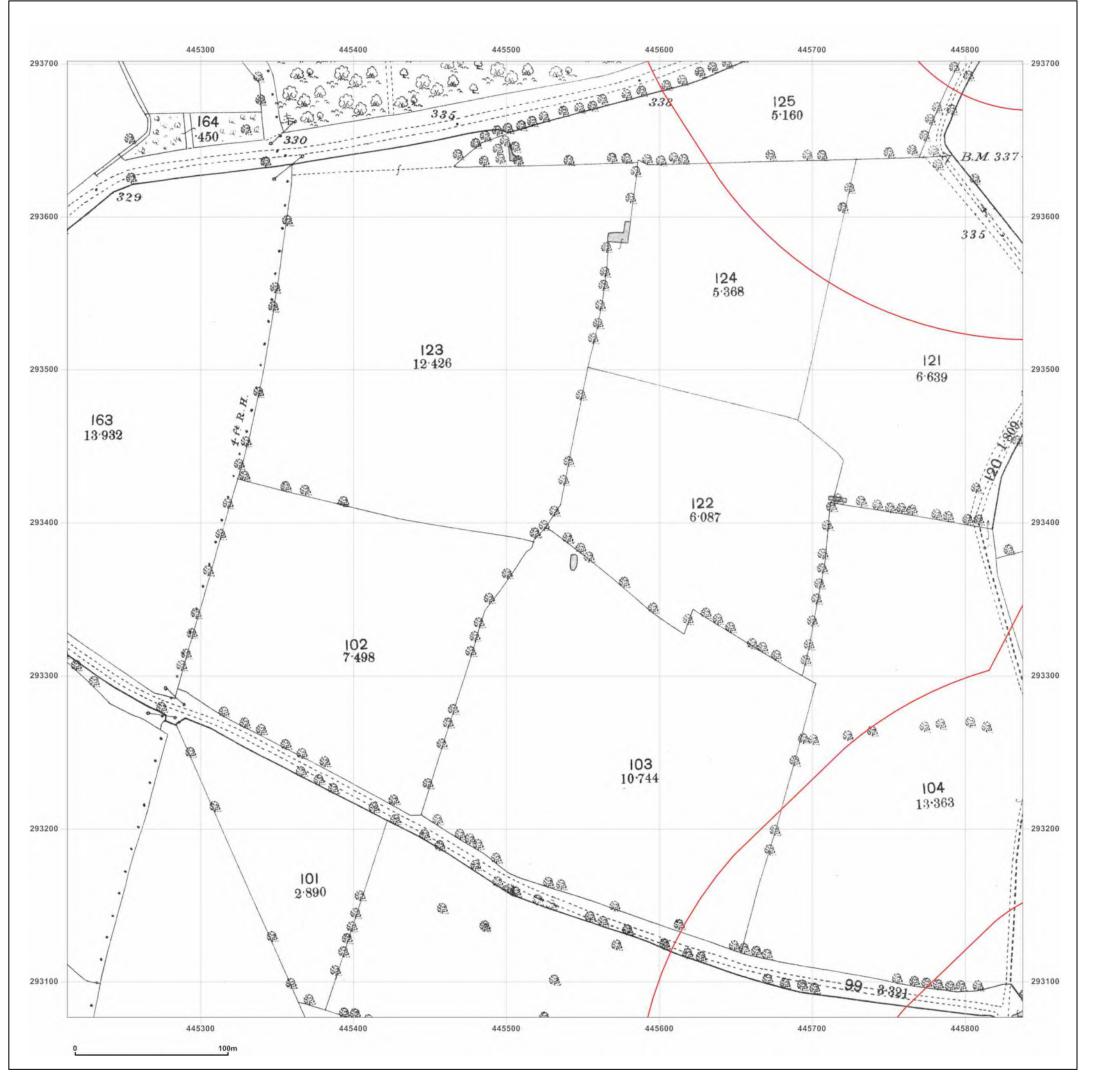
Revision: 01

November 2022

Planning Act 2008

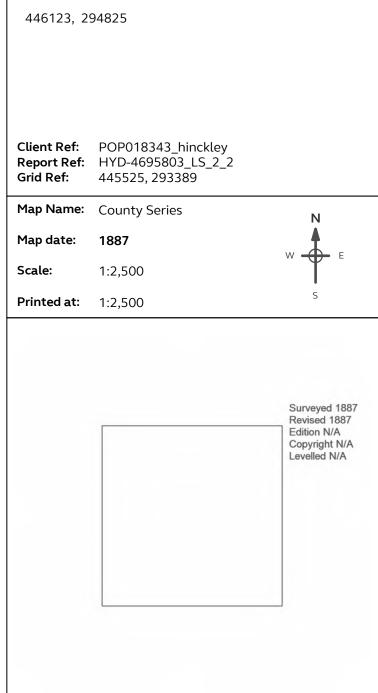
The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 Regulation 14





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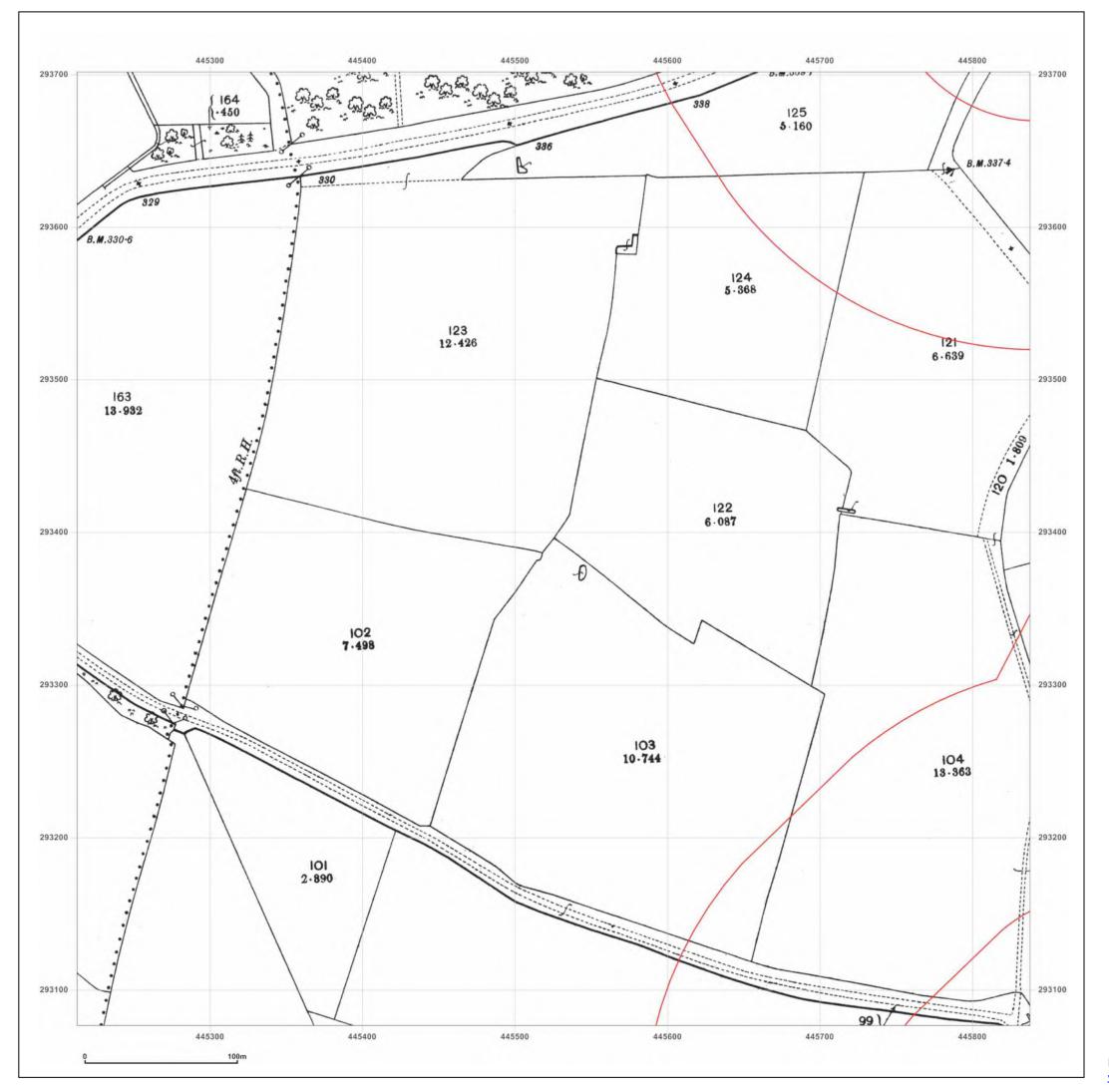


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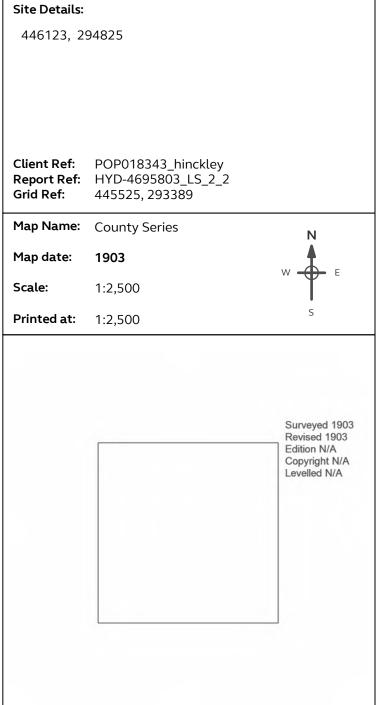
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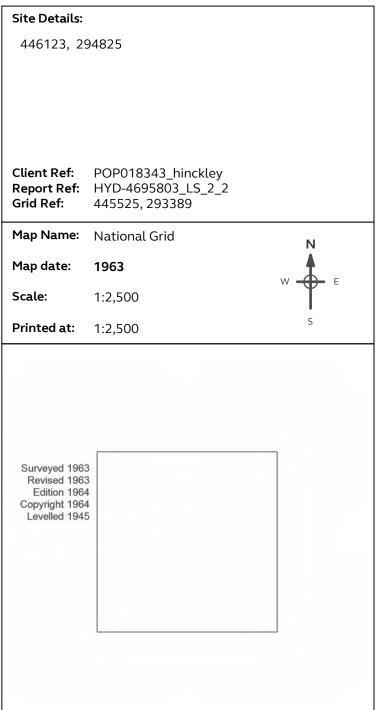
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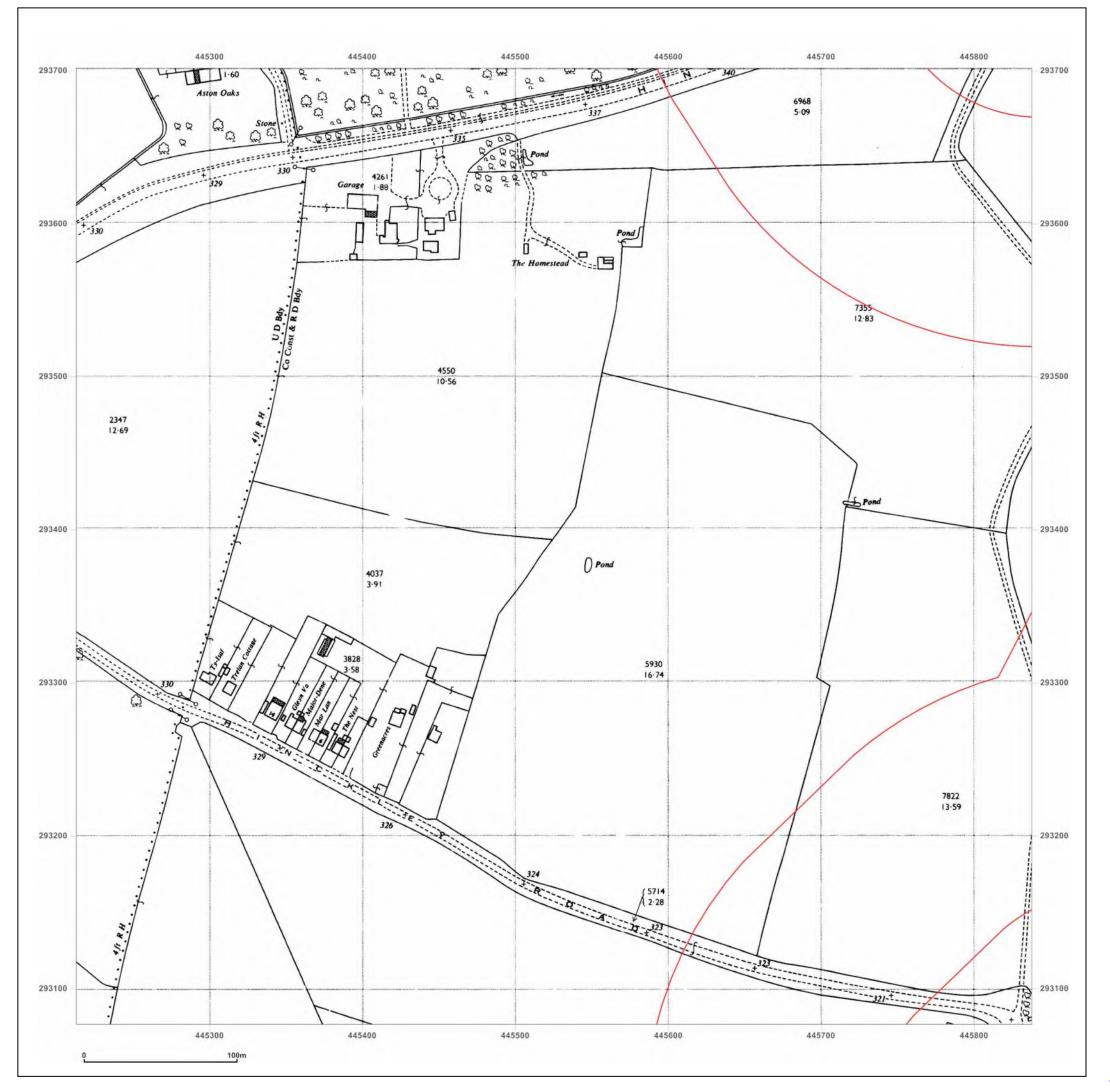




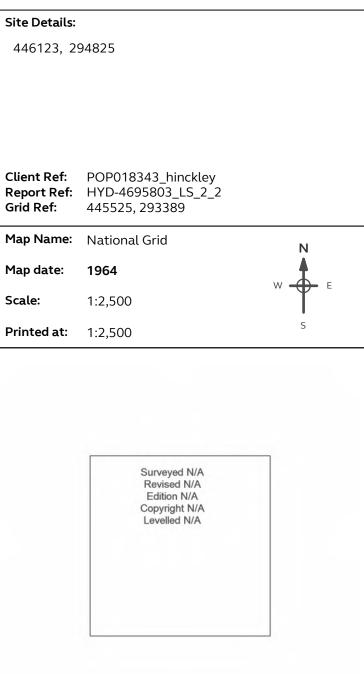
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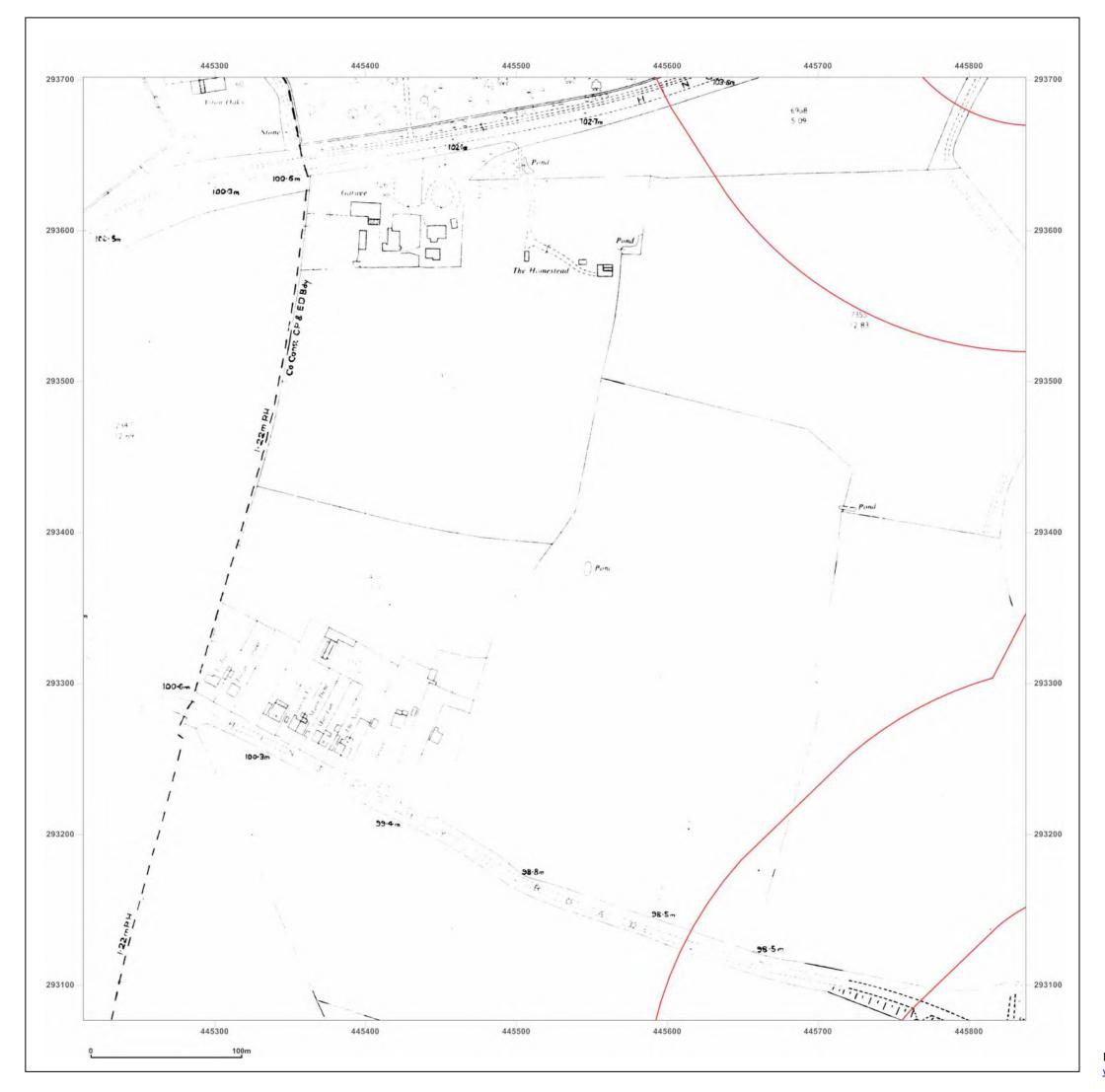




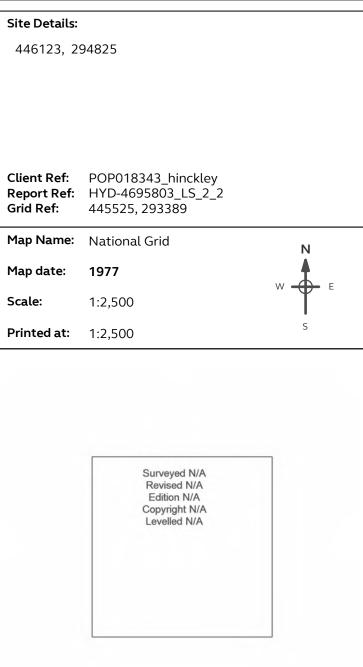
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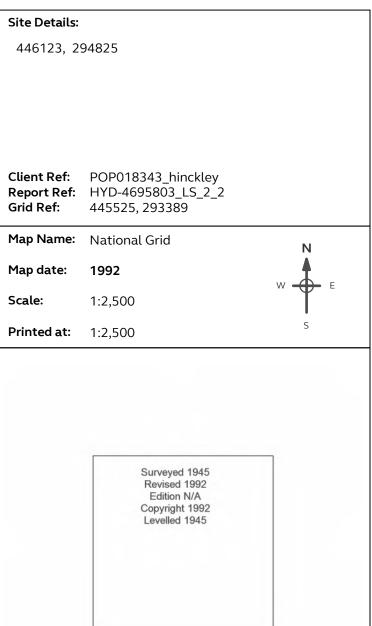
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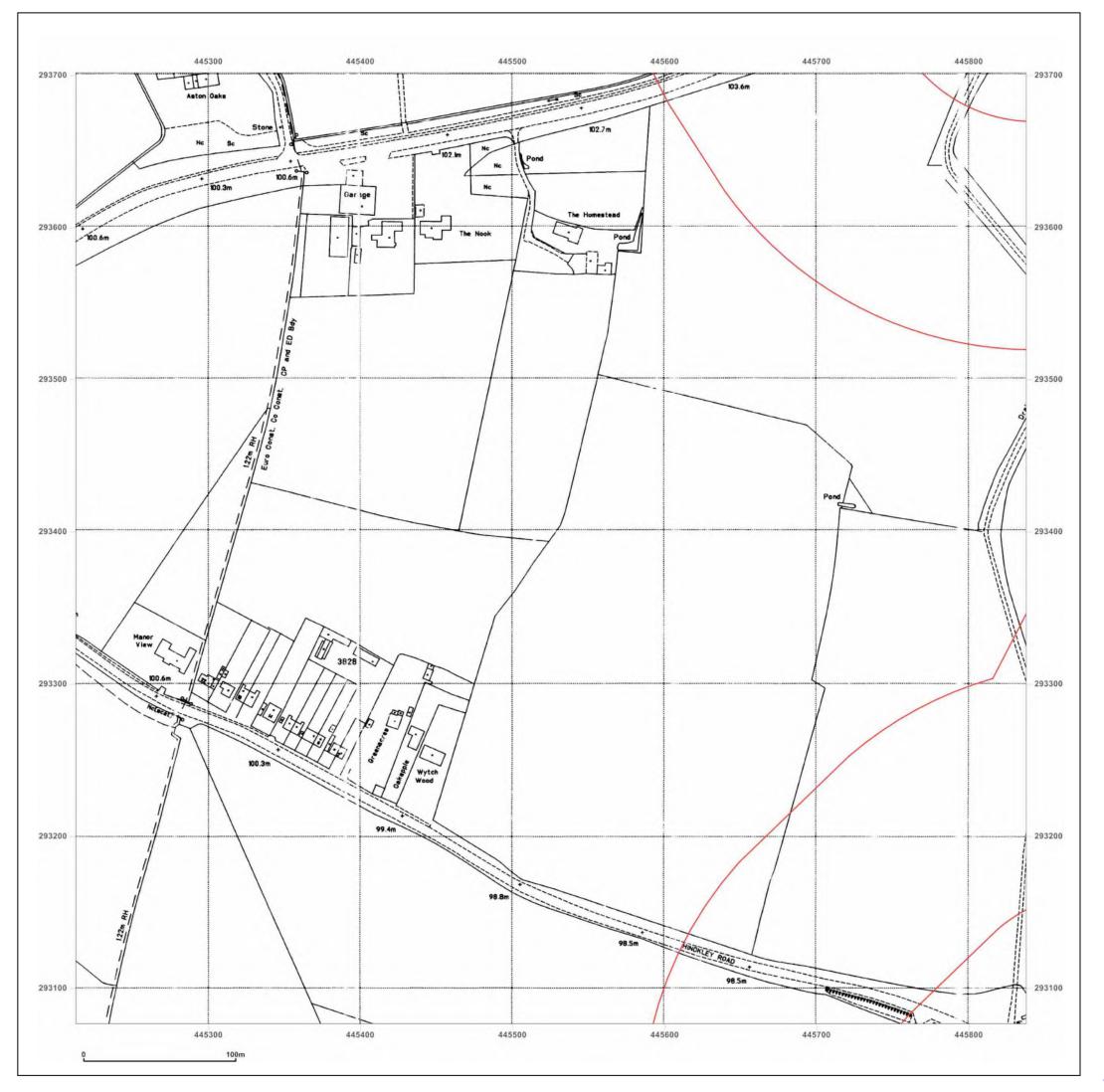




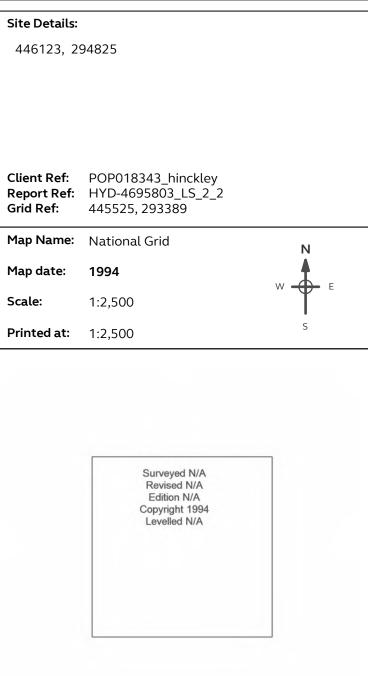
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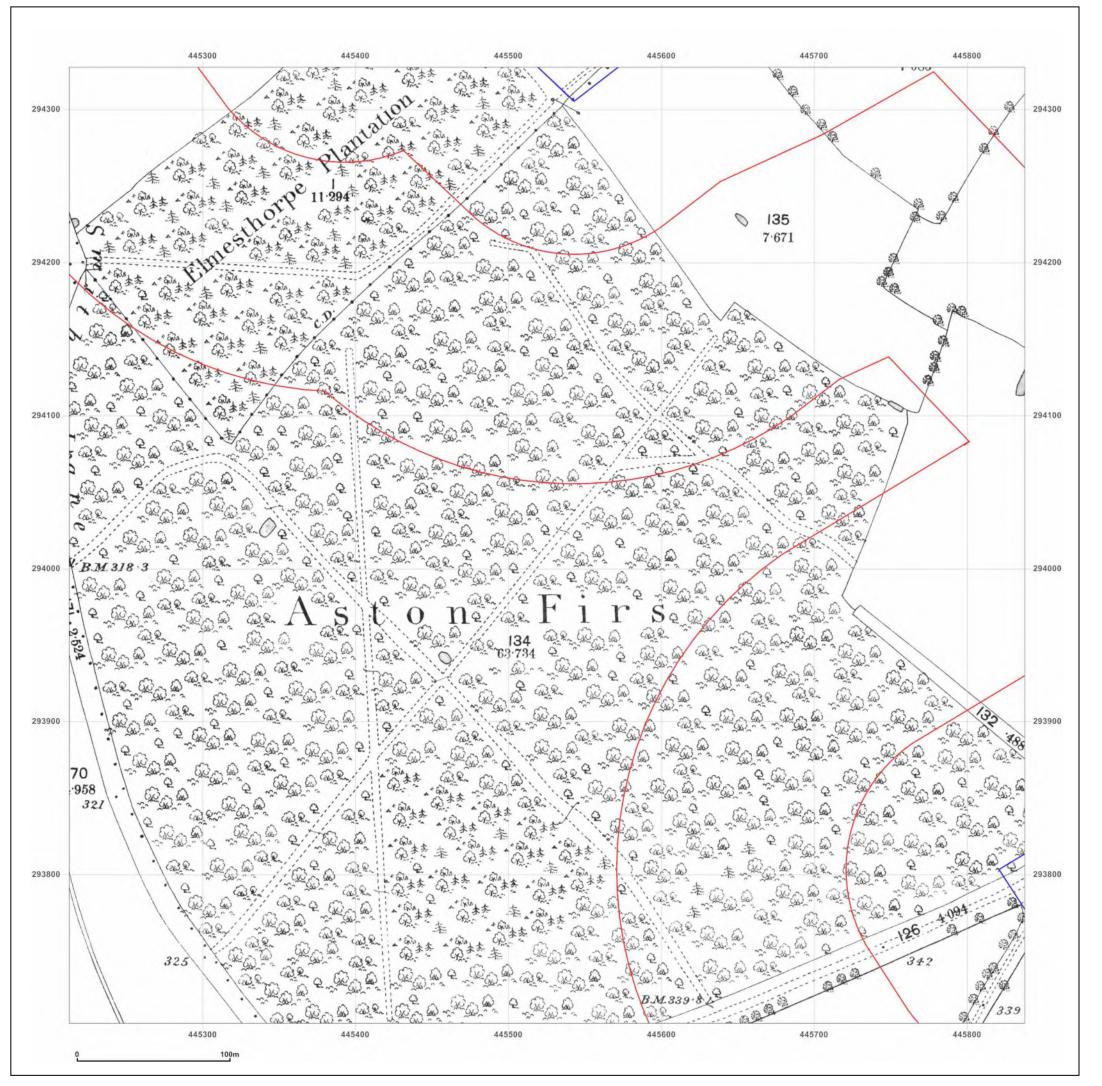




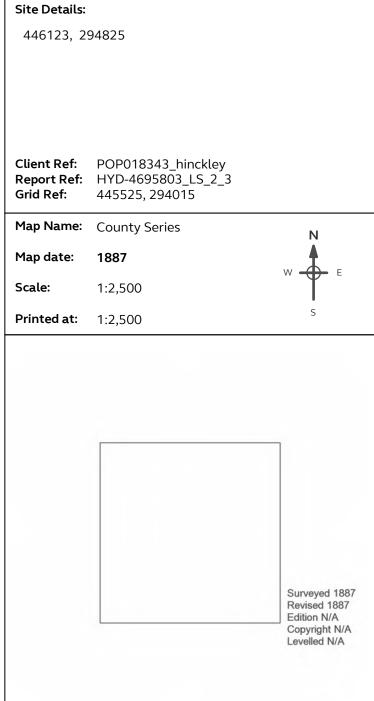
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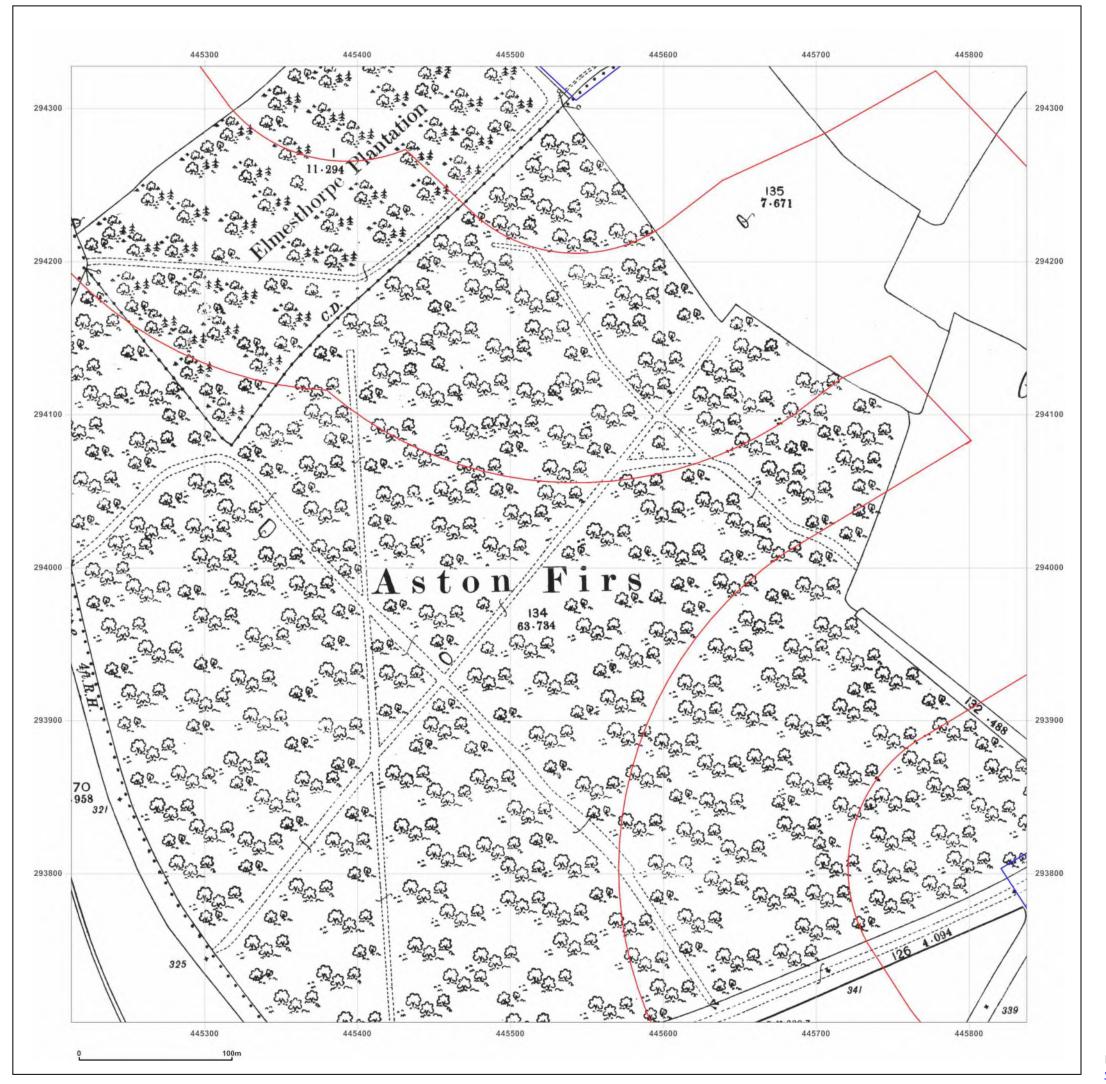




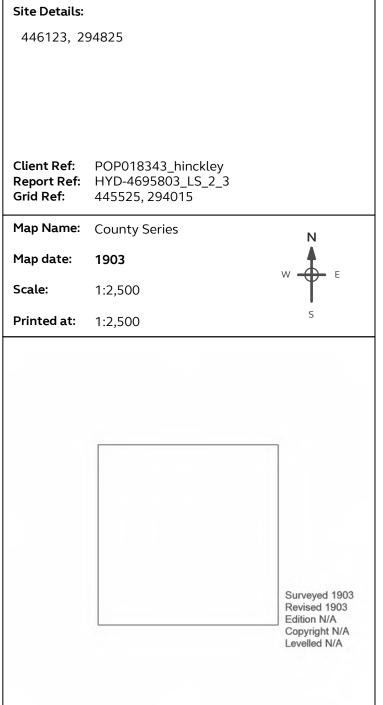
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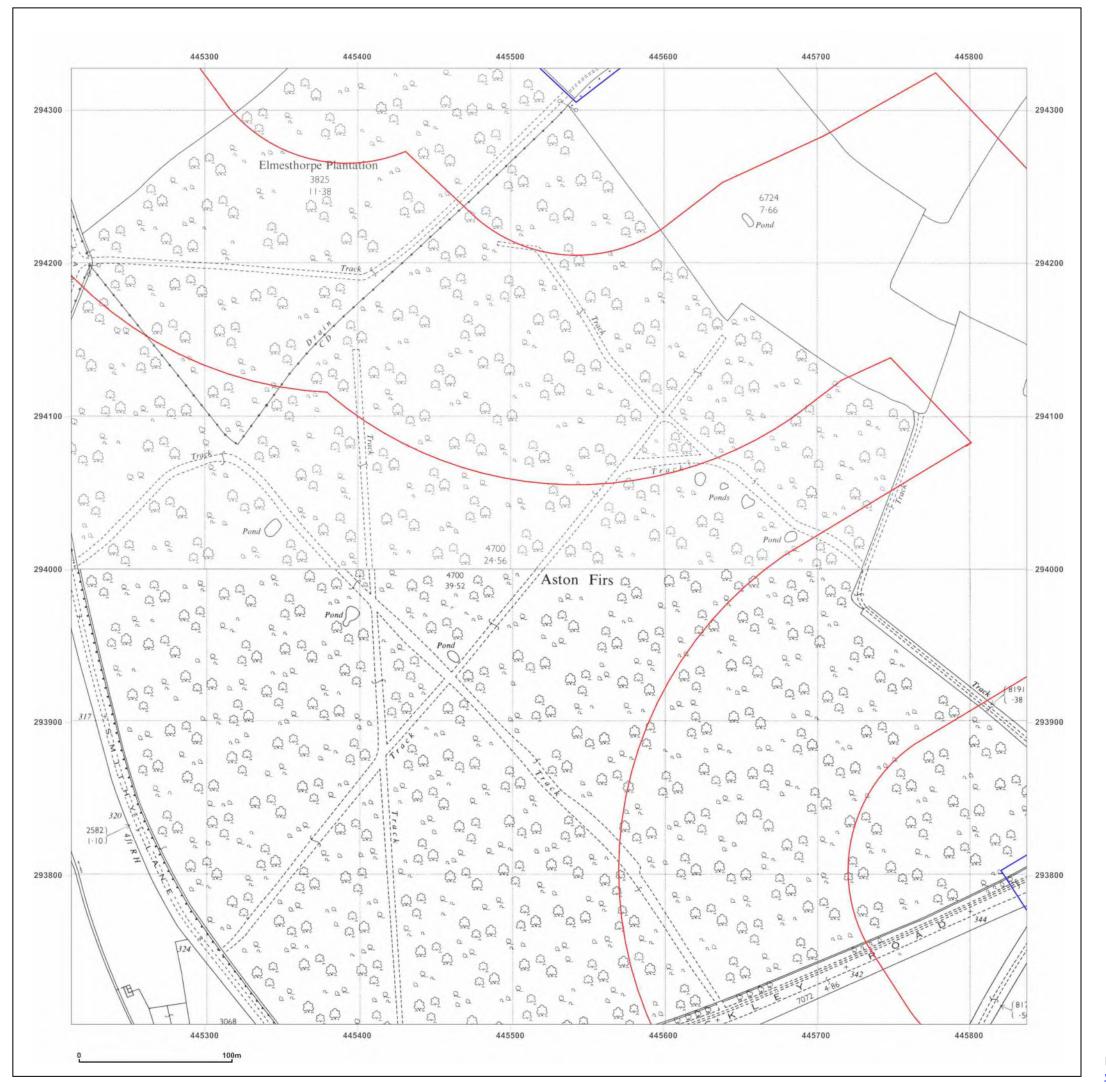




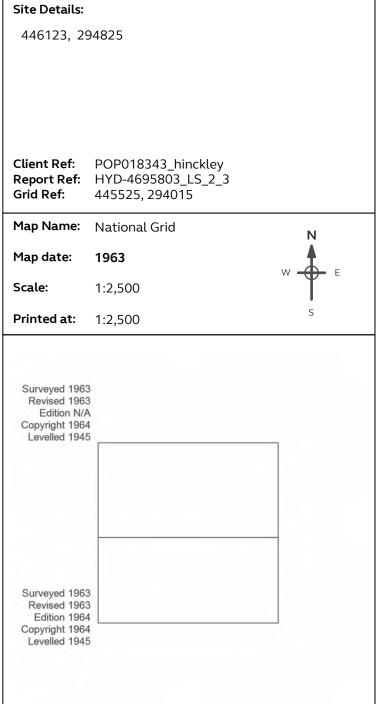
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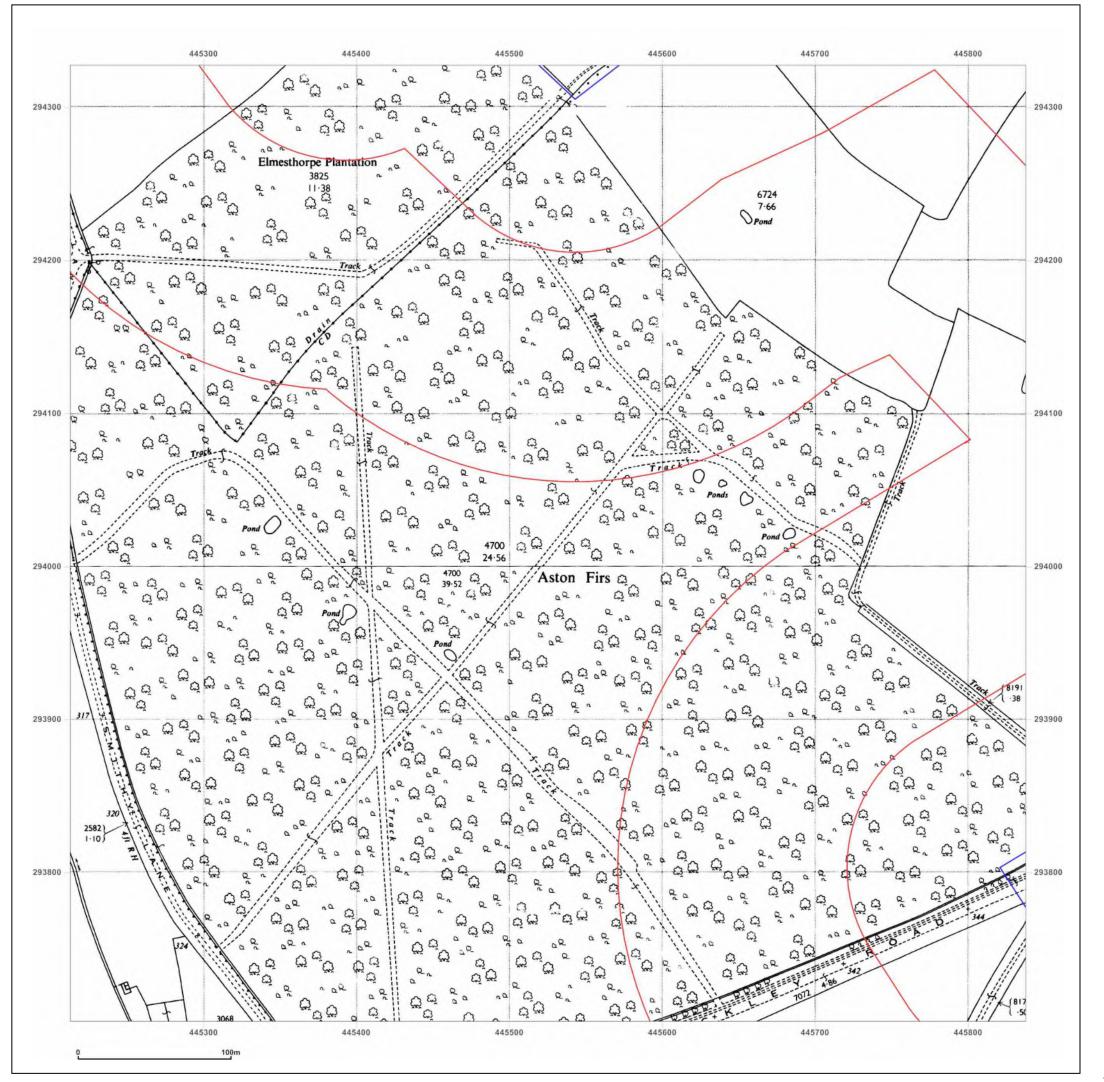




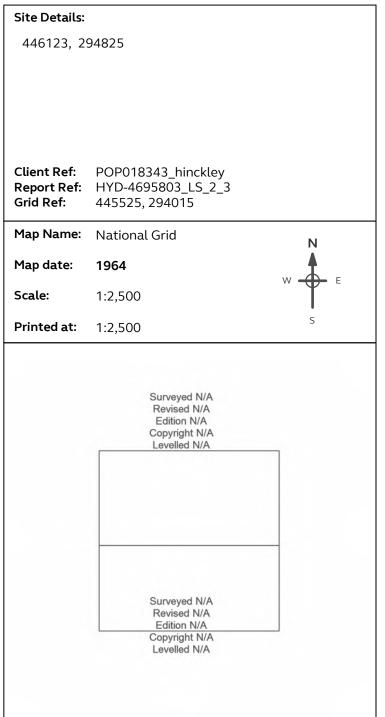
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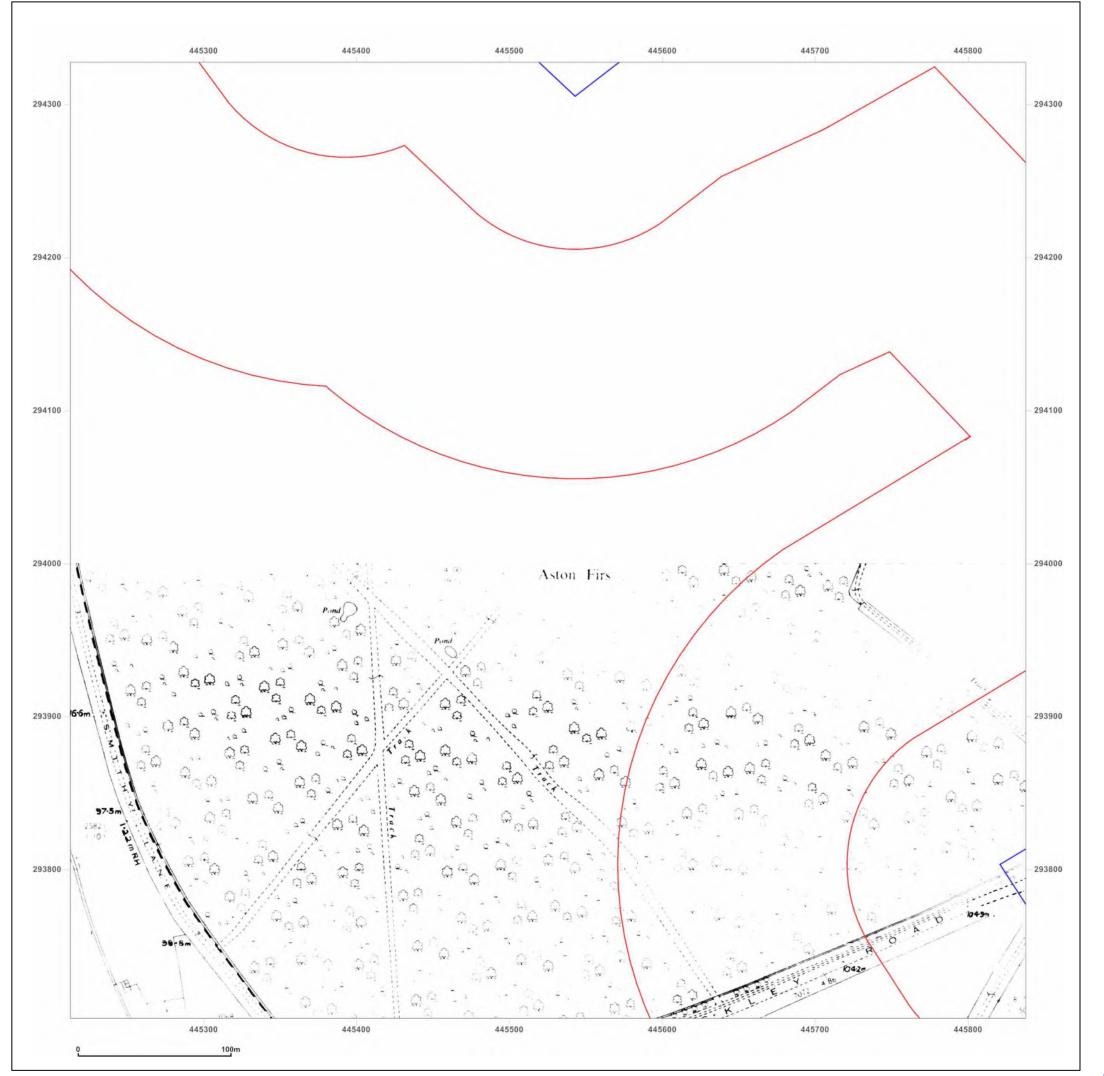




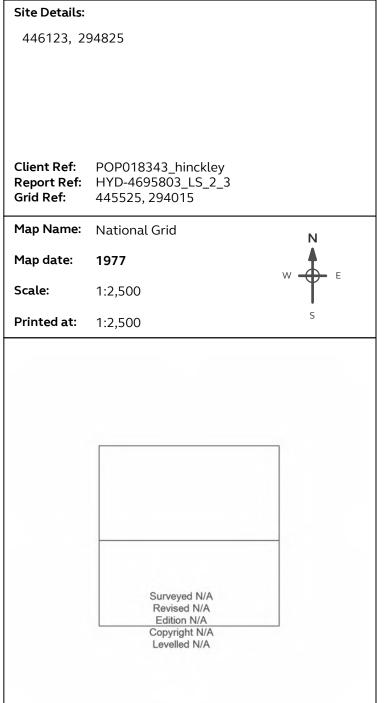
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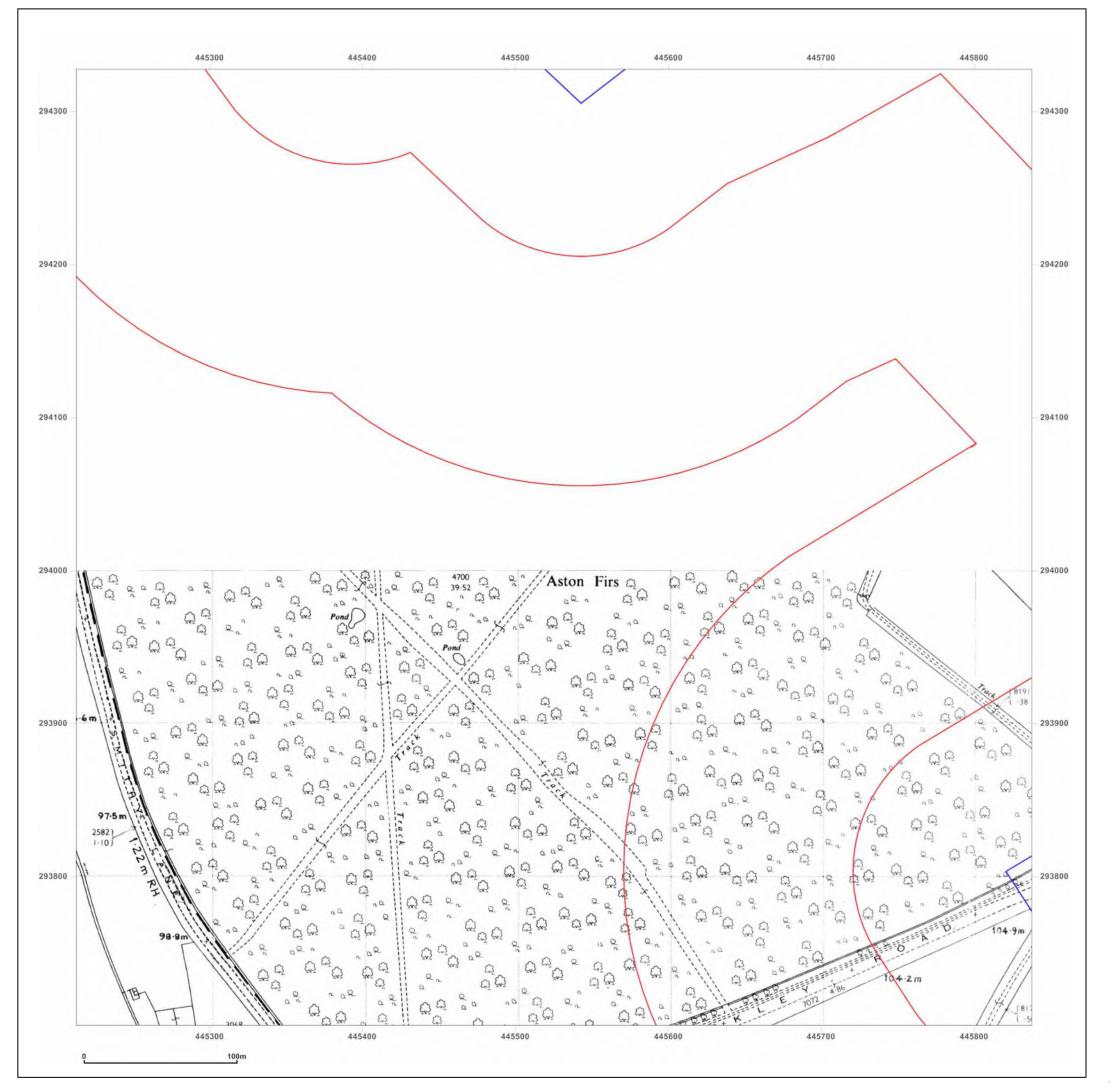




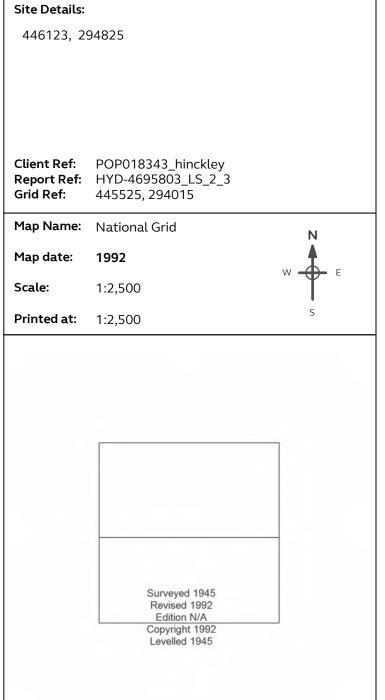
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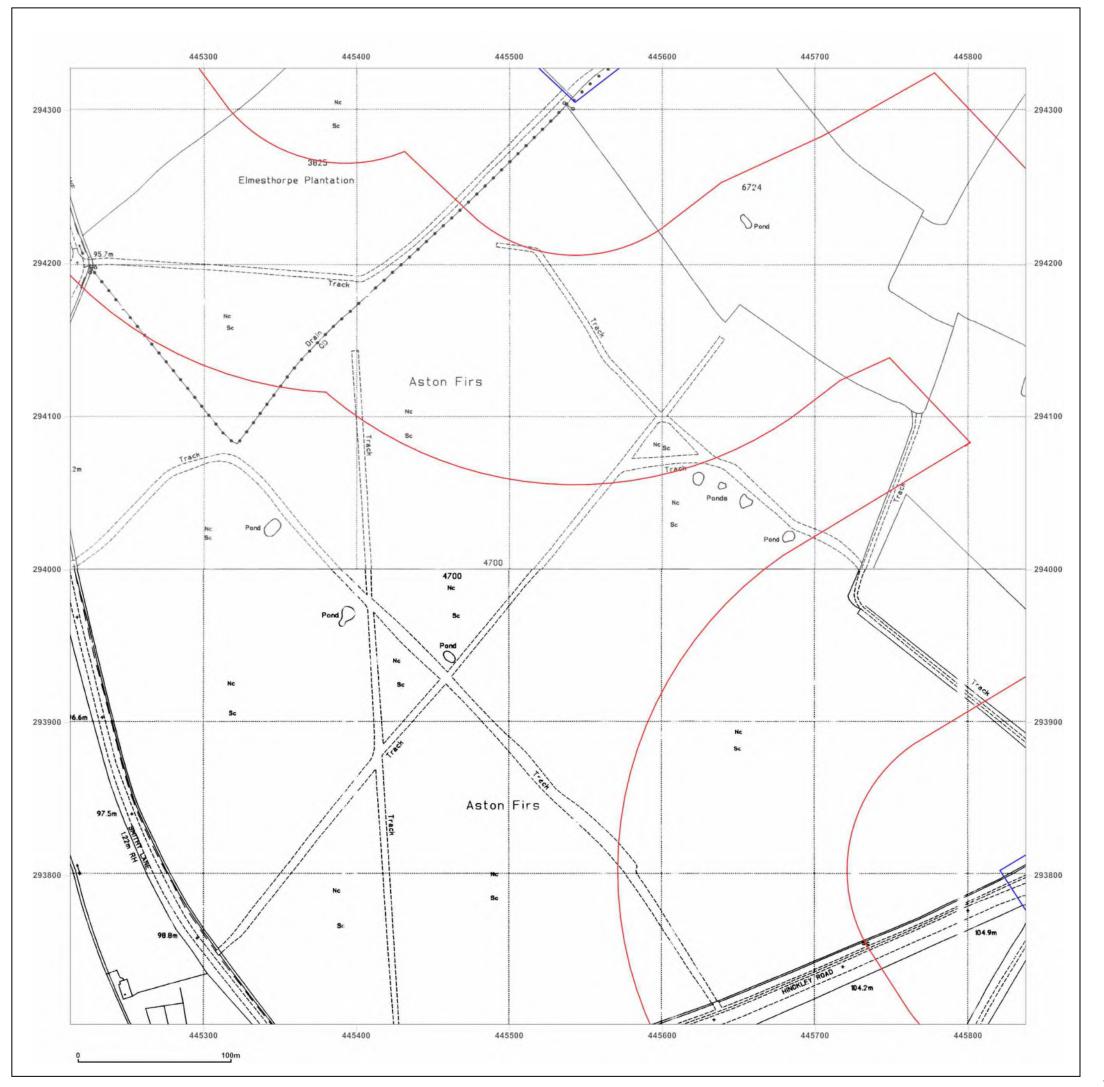




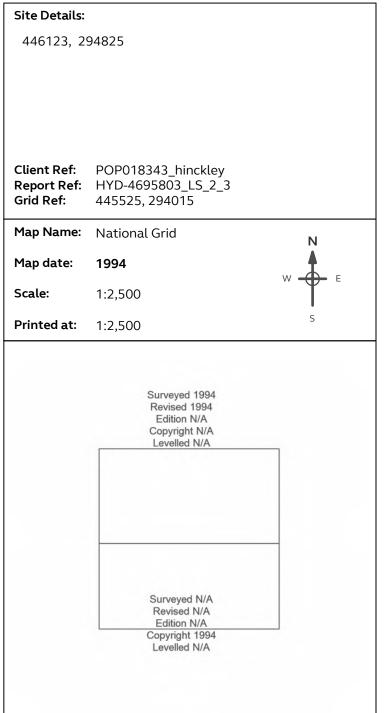
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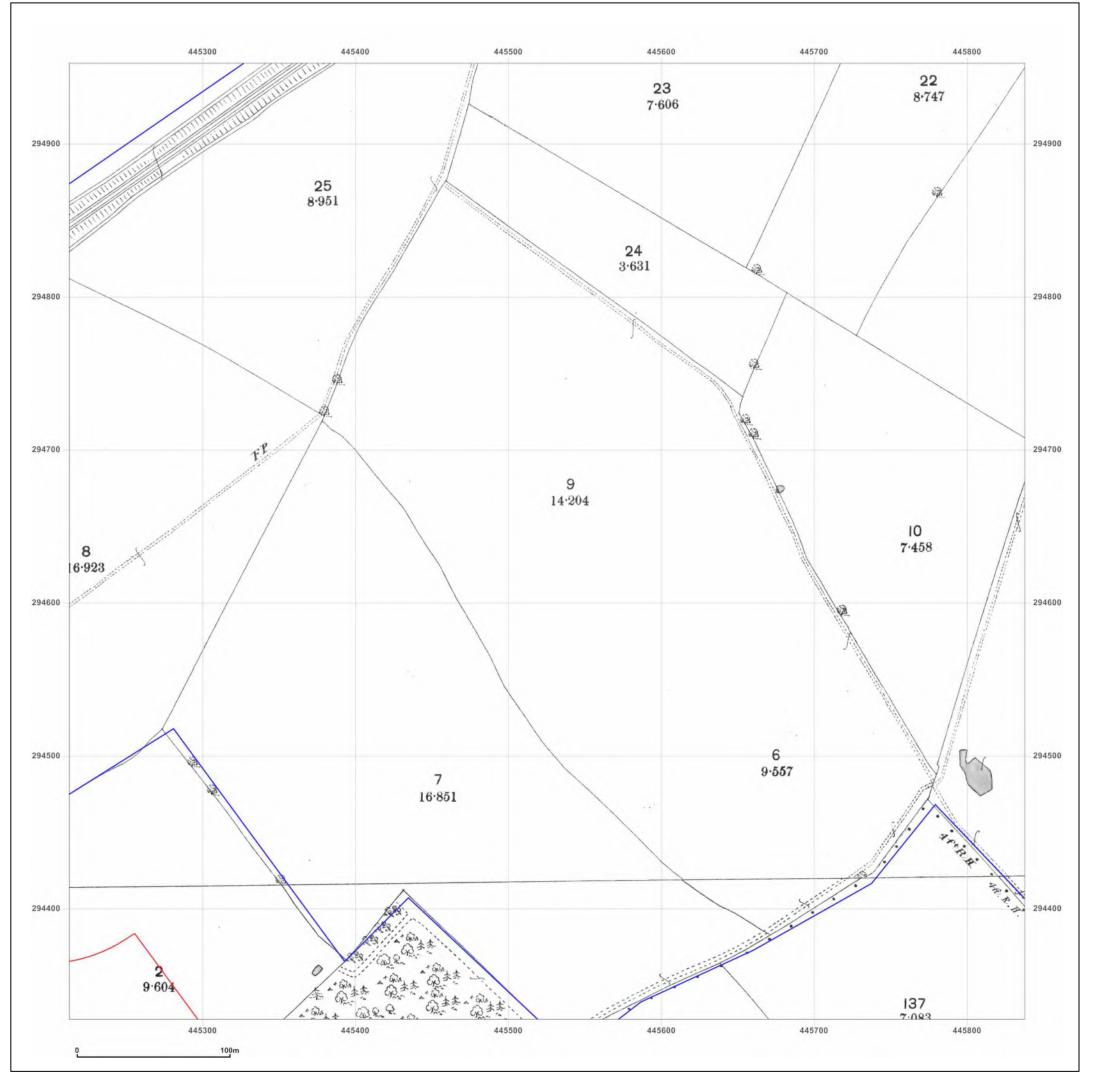




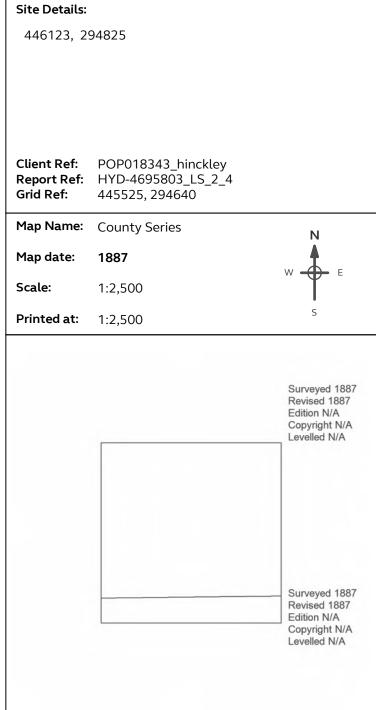
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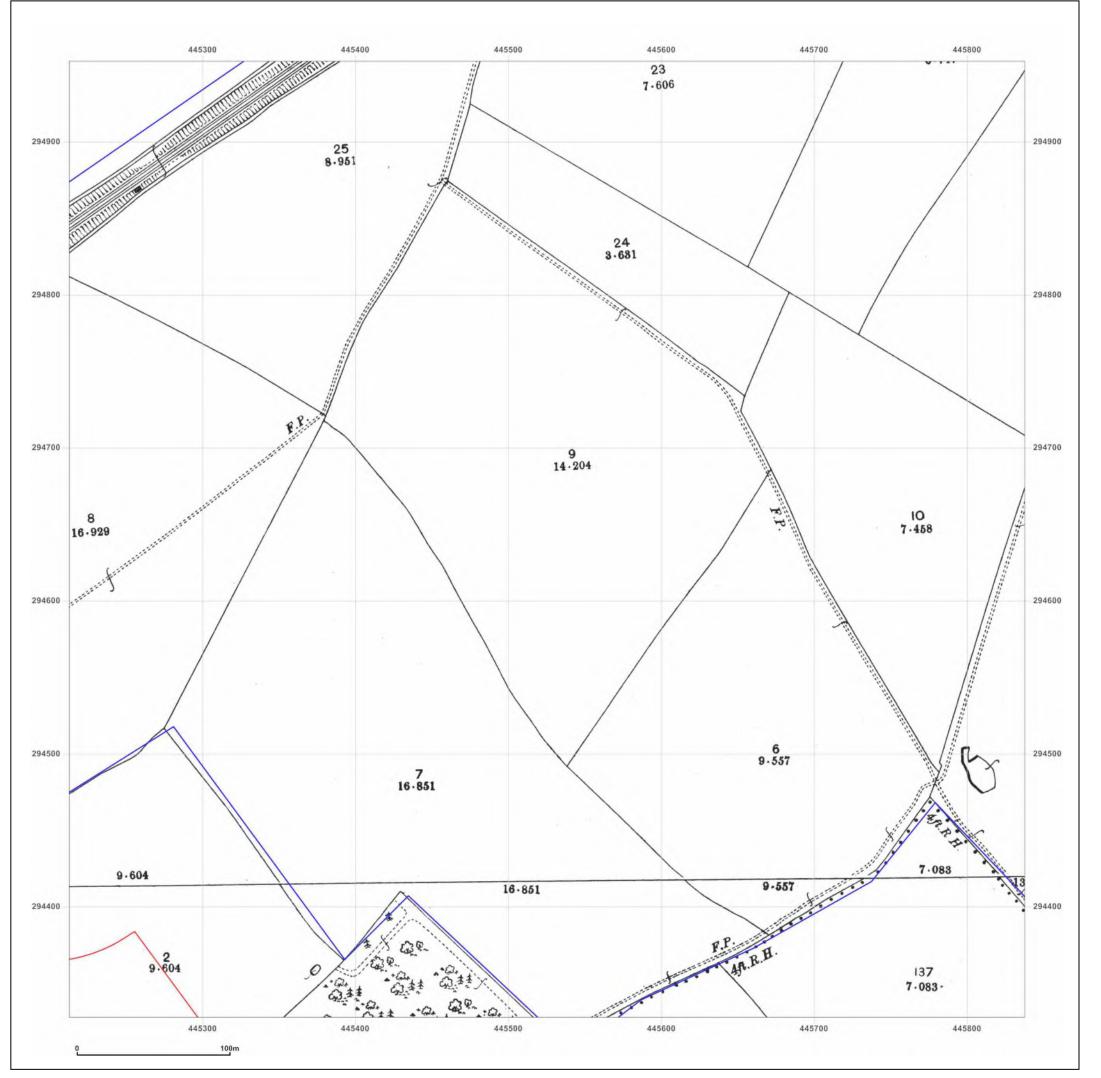




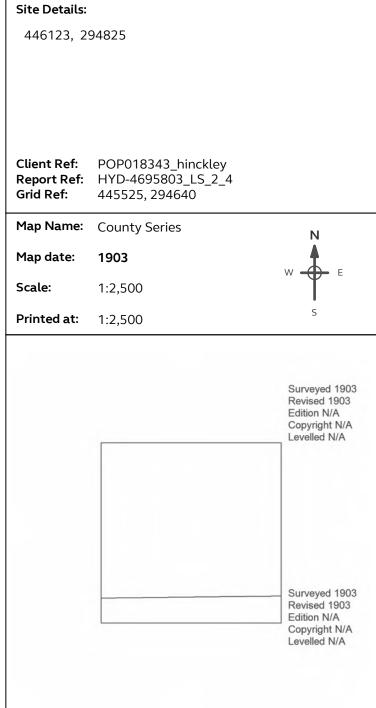
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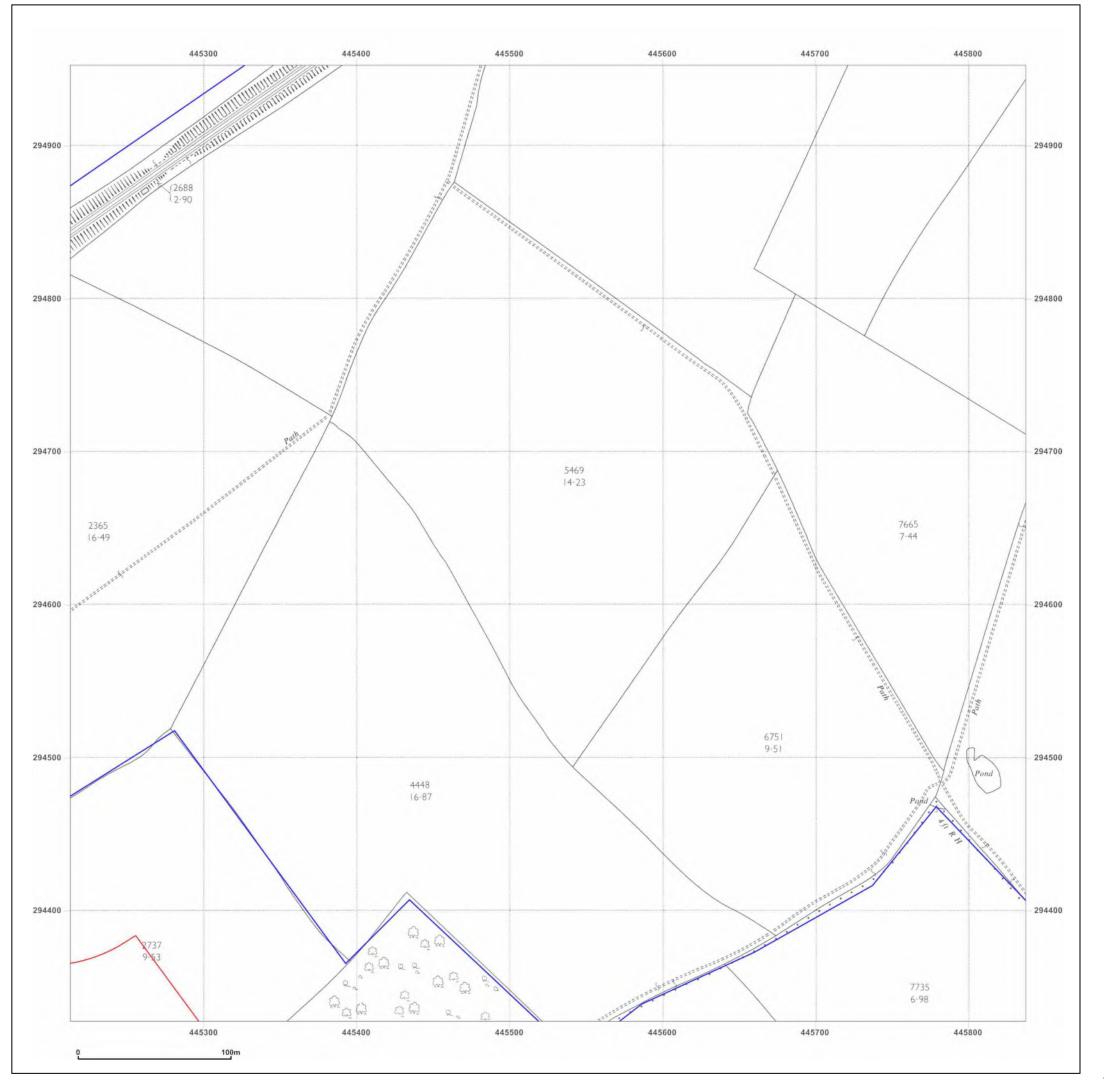




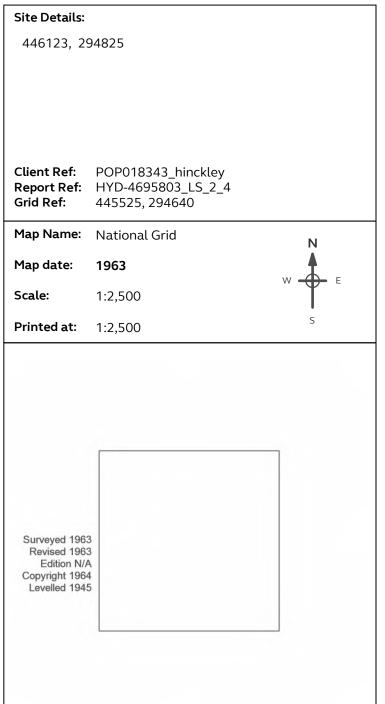
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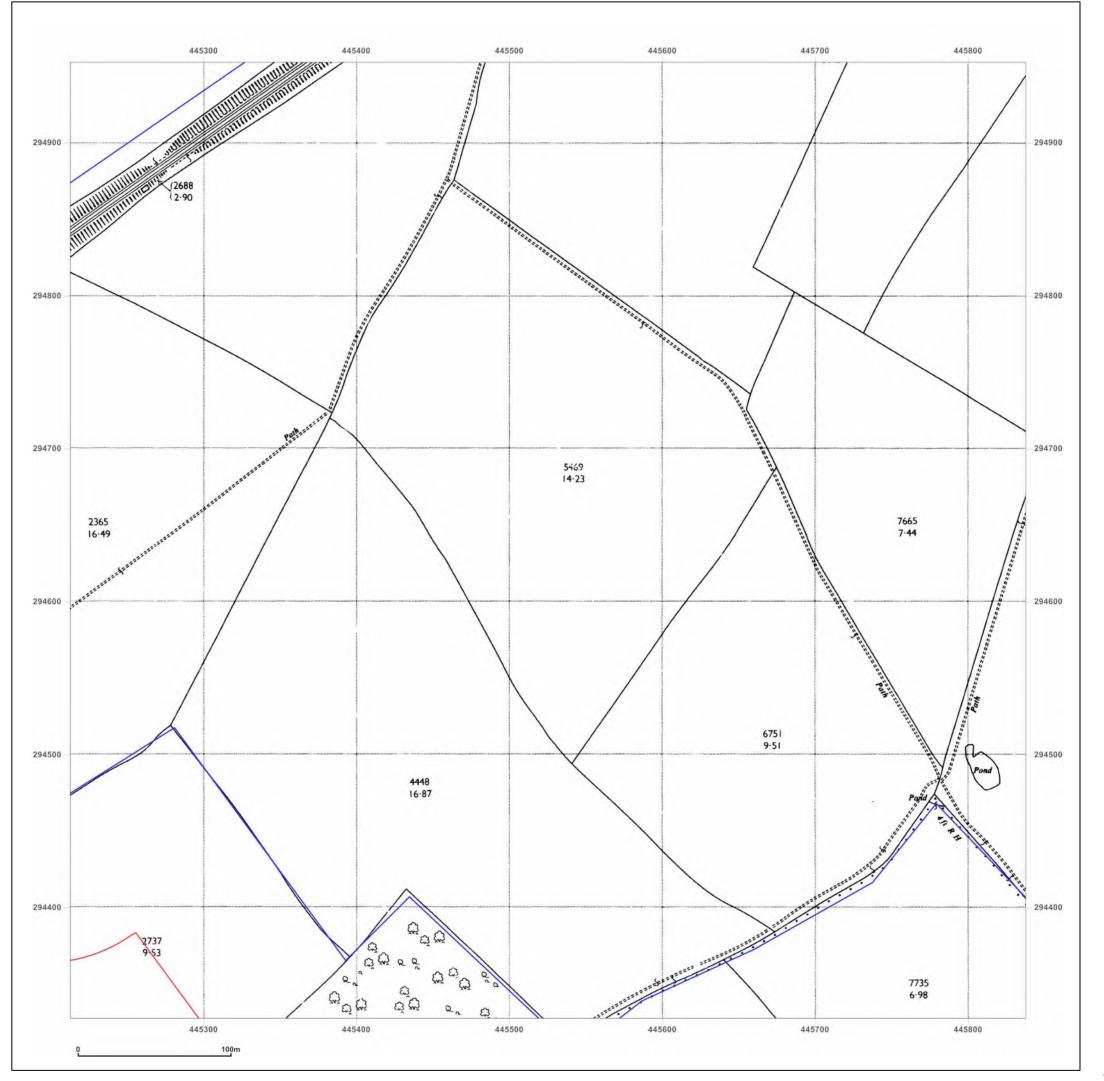




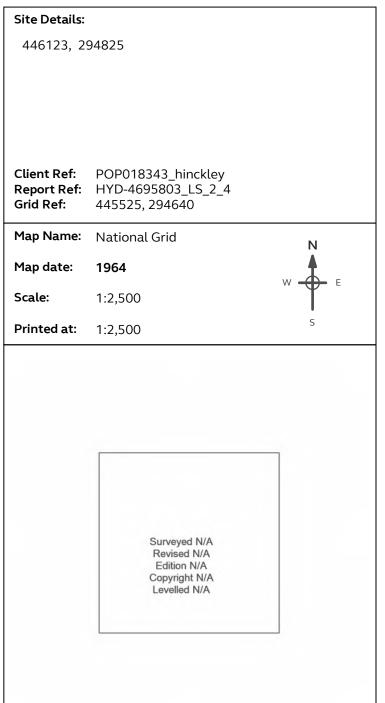
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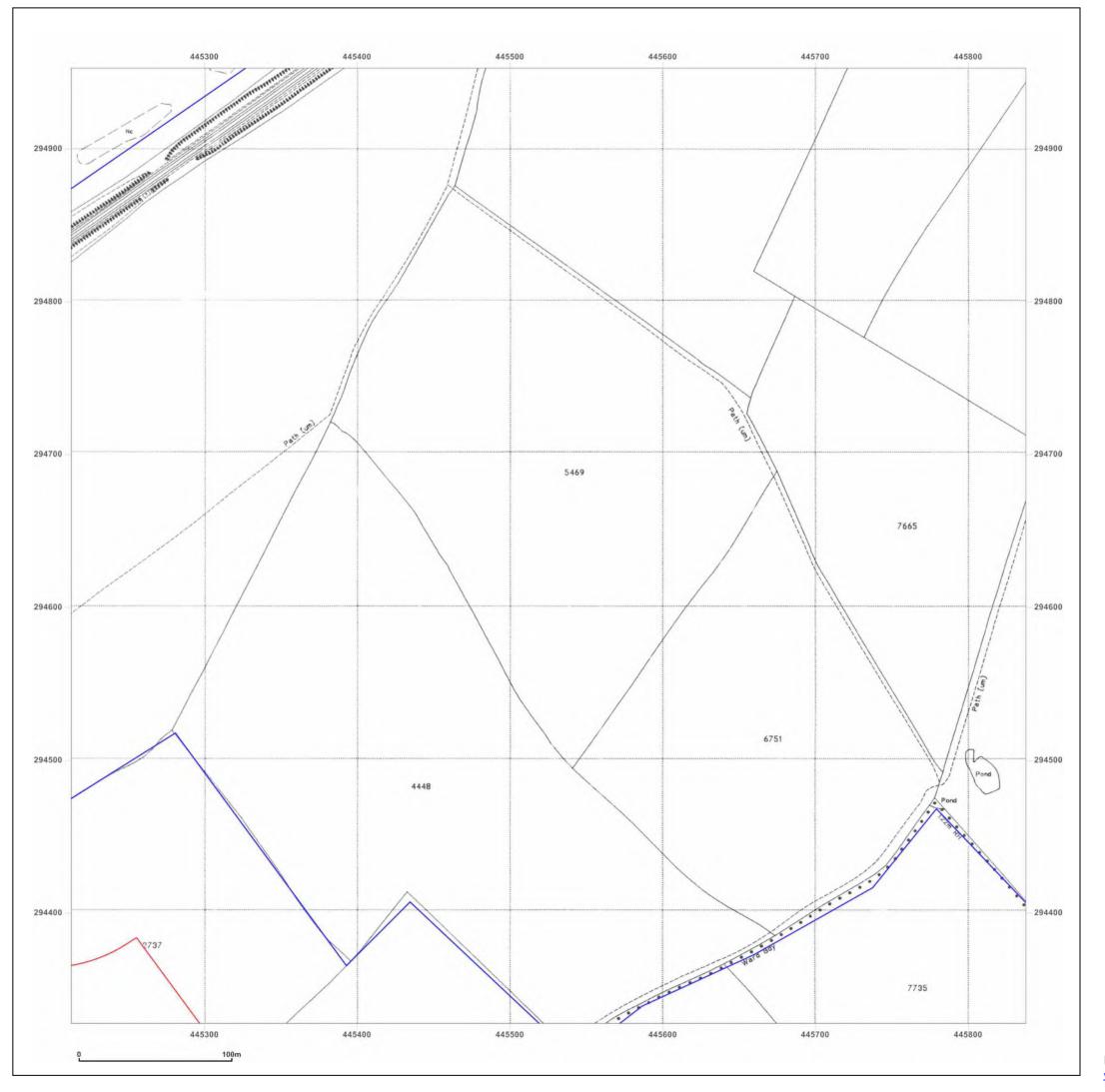




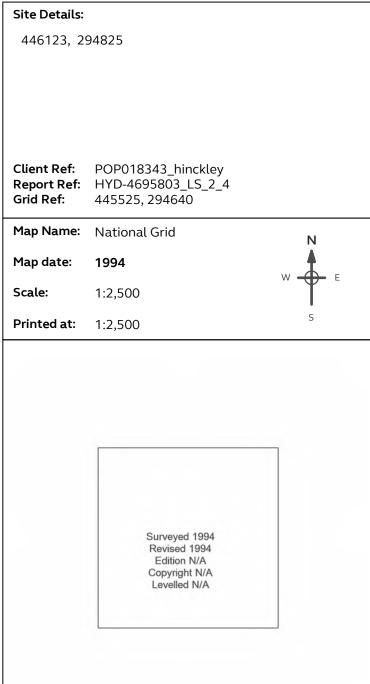
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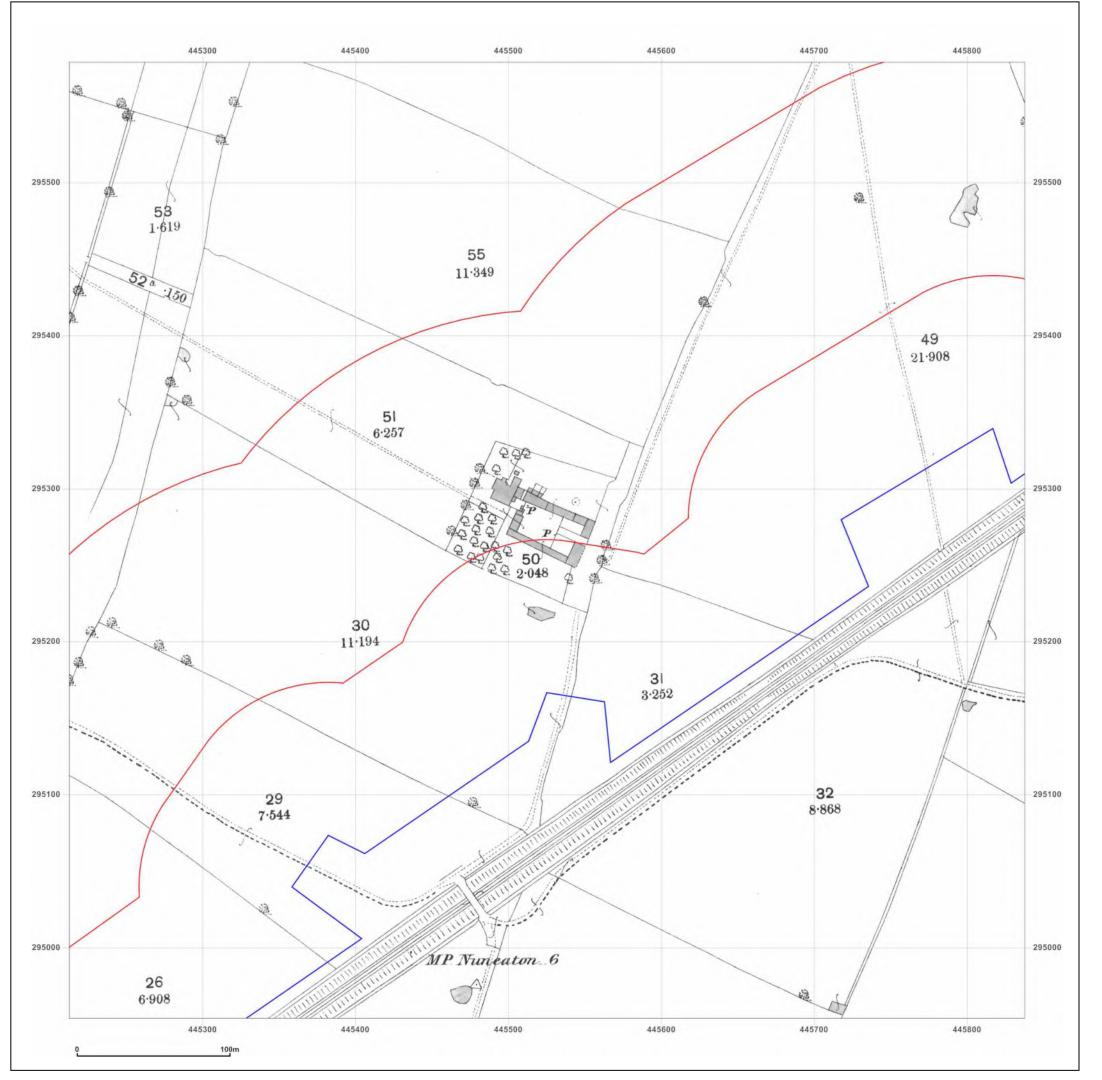




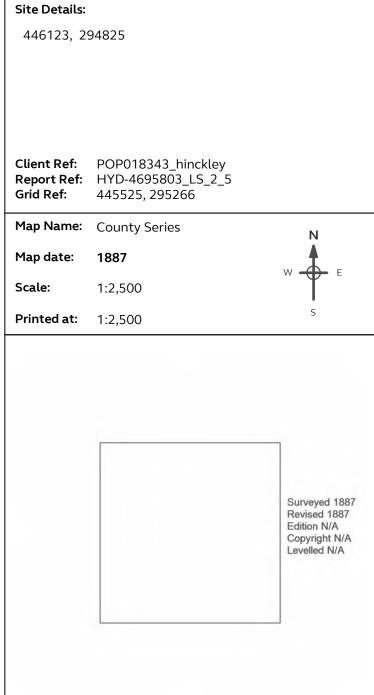
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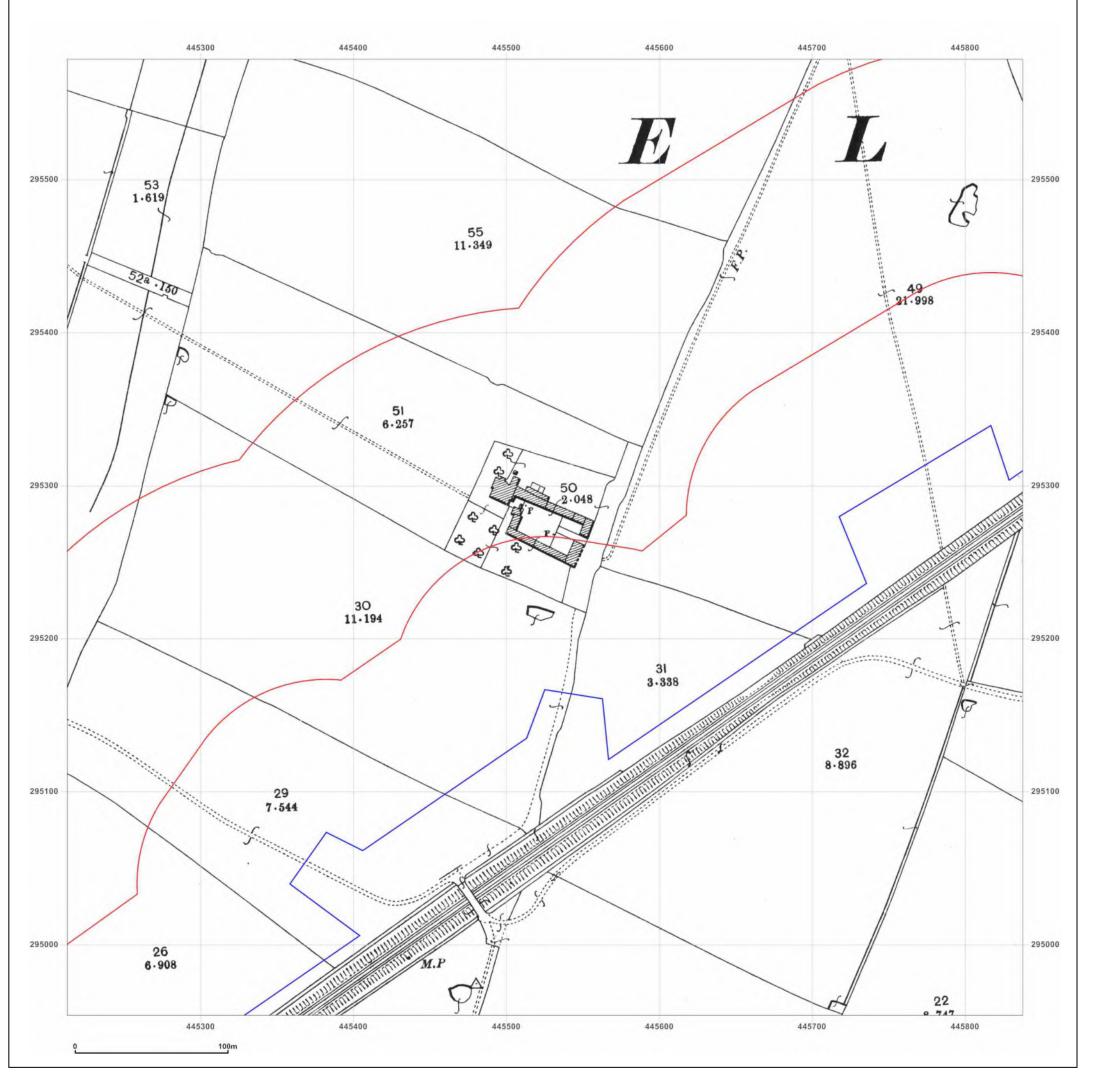




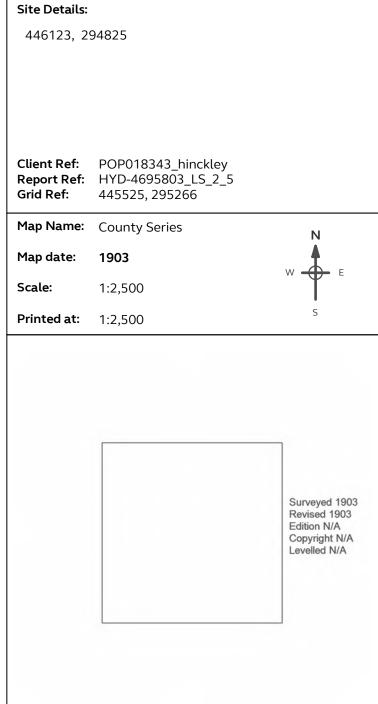
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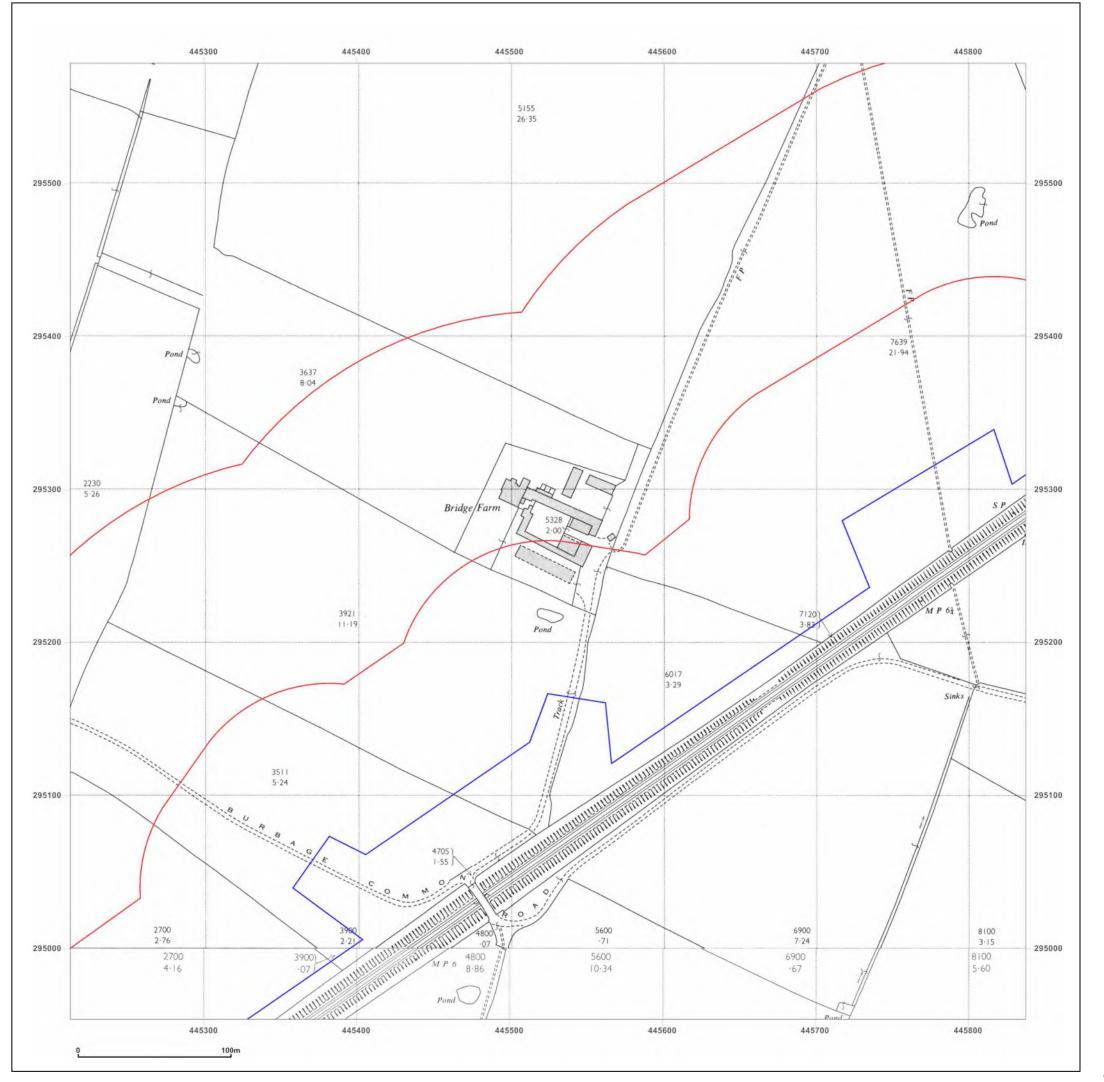




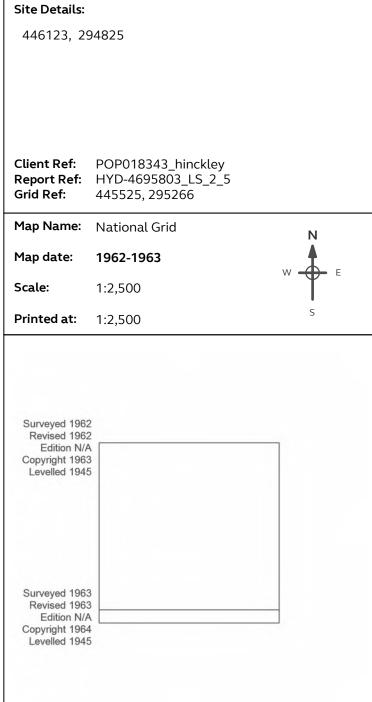
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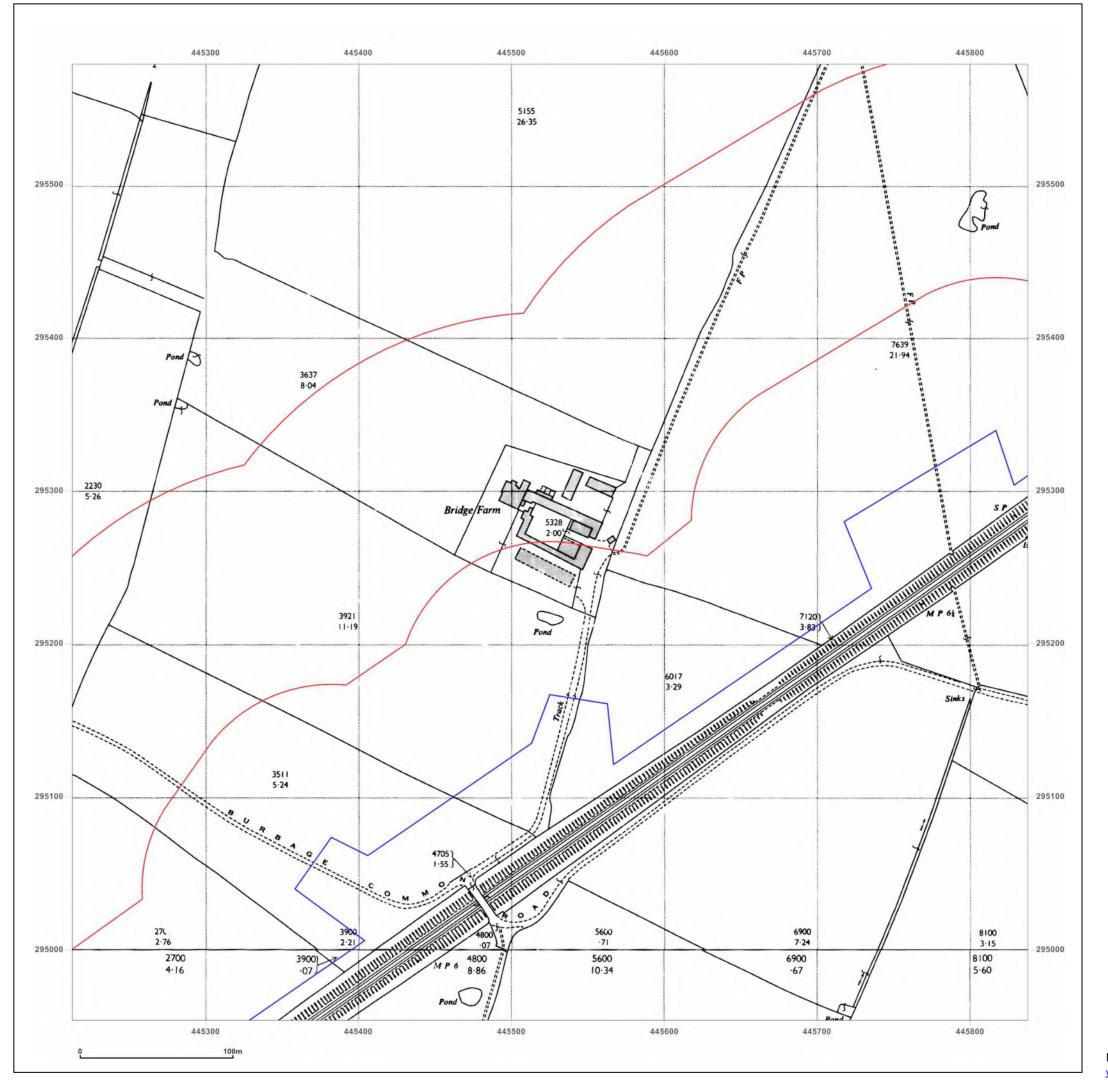




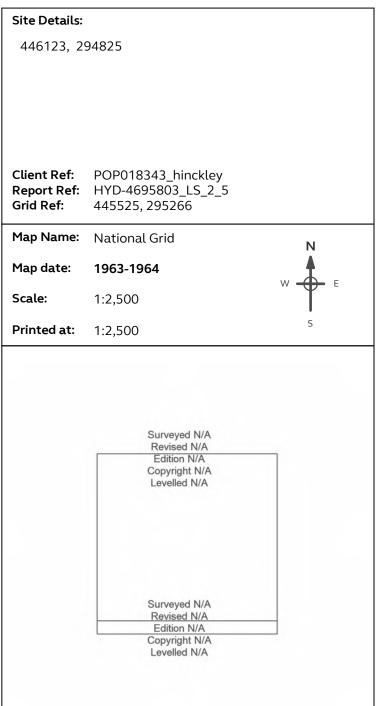
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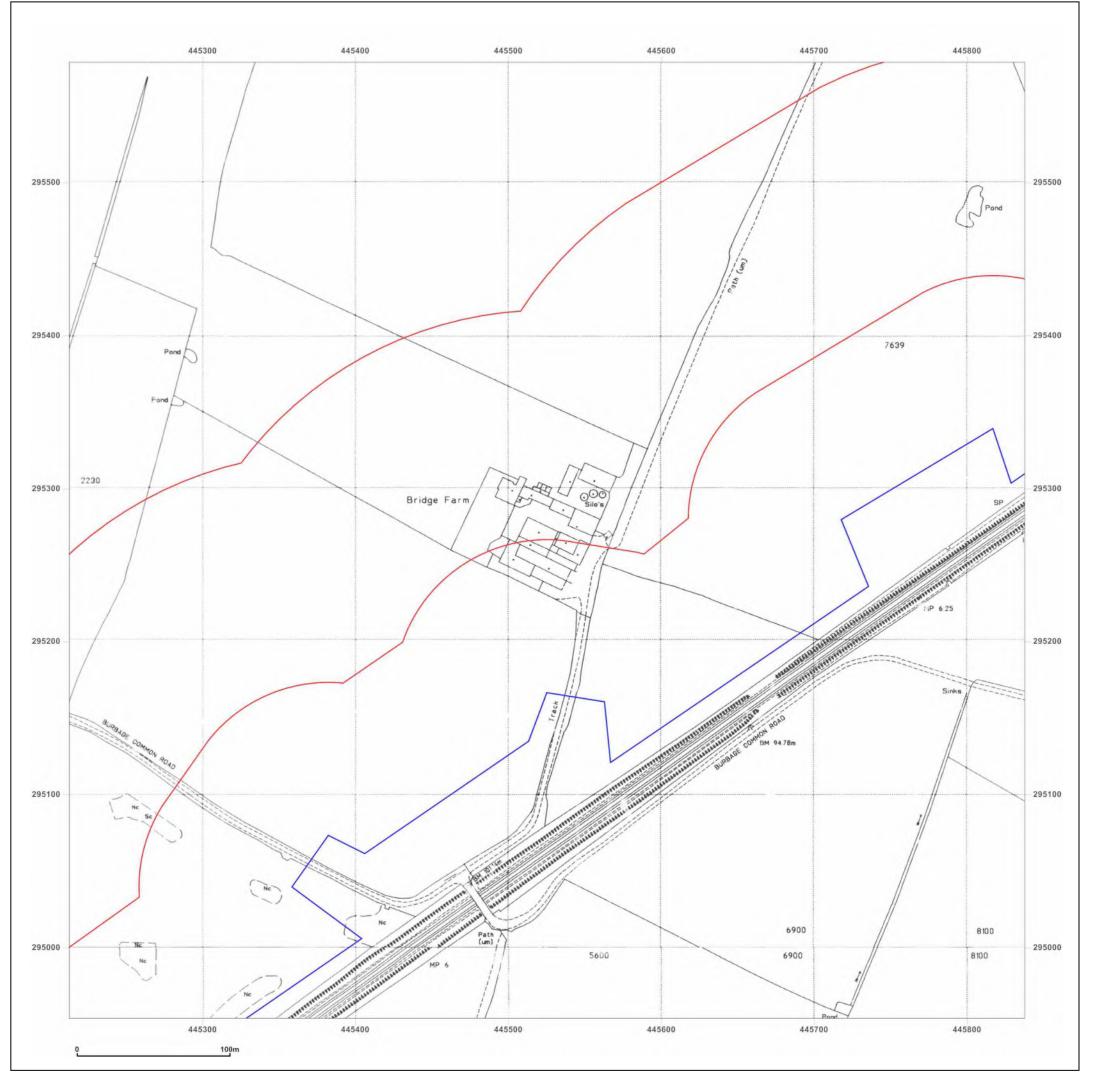




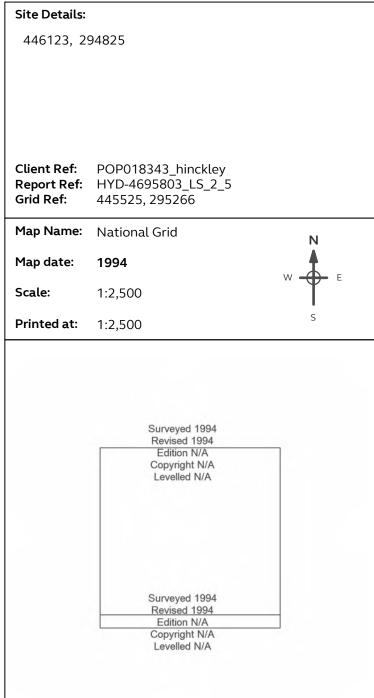
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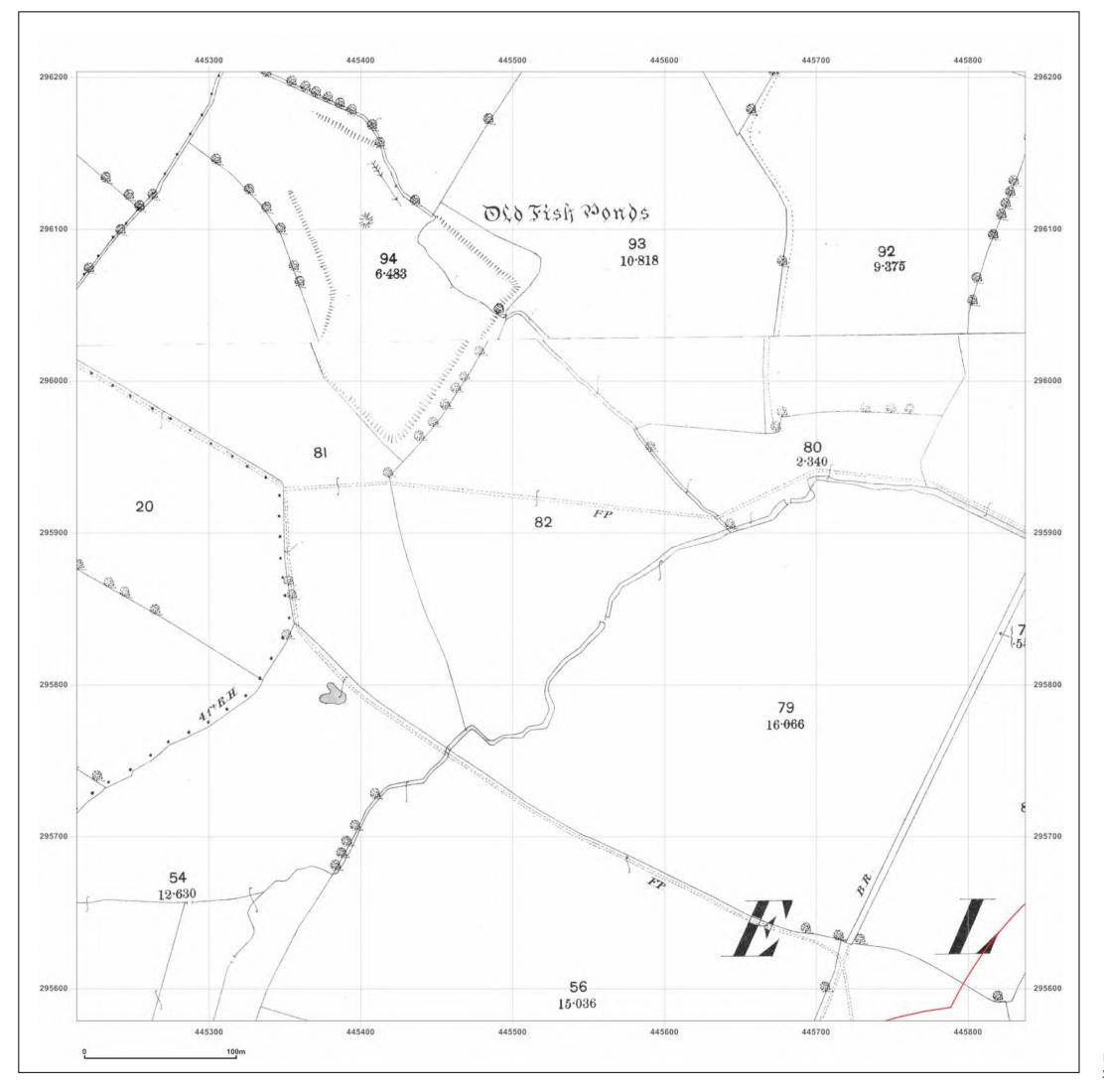




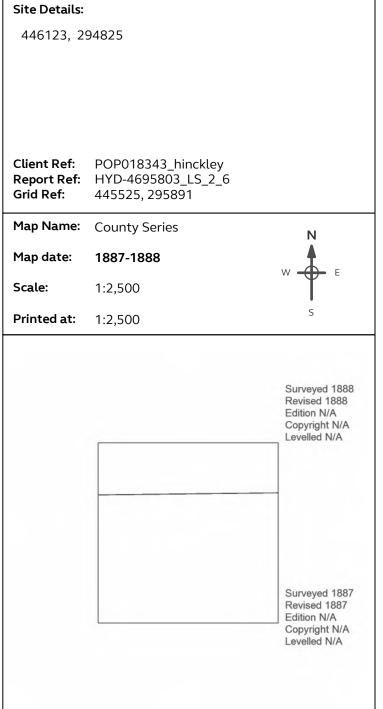
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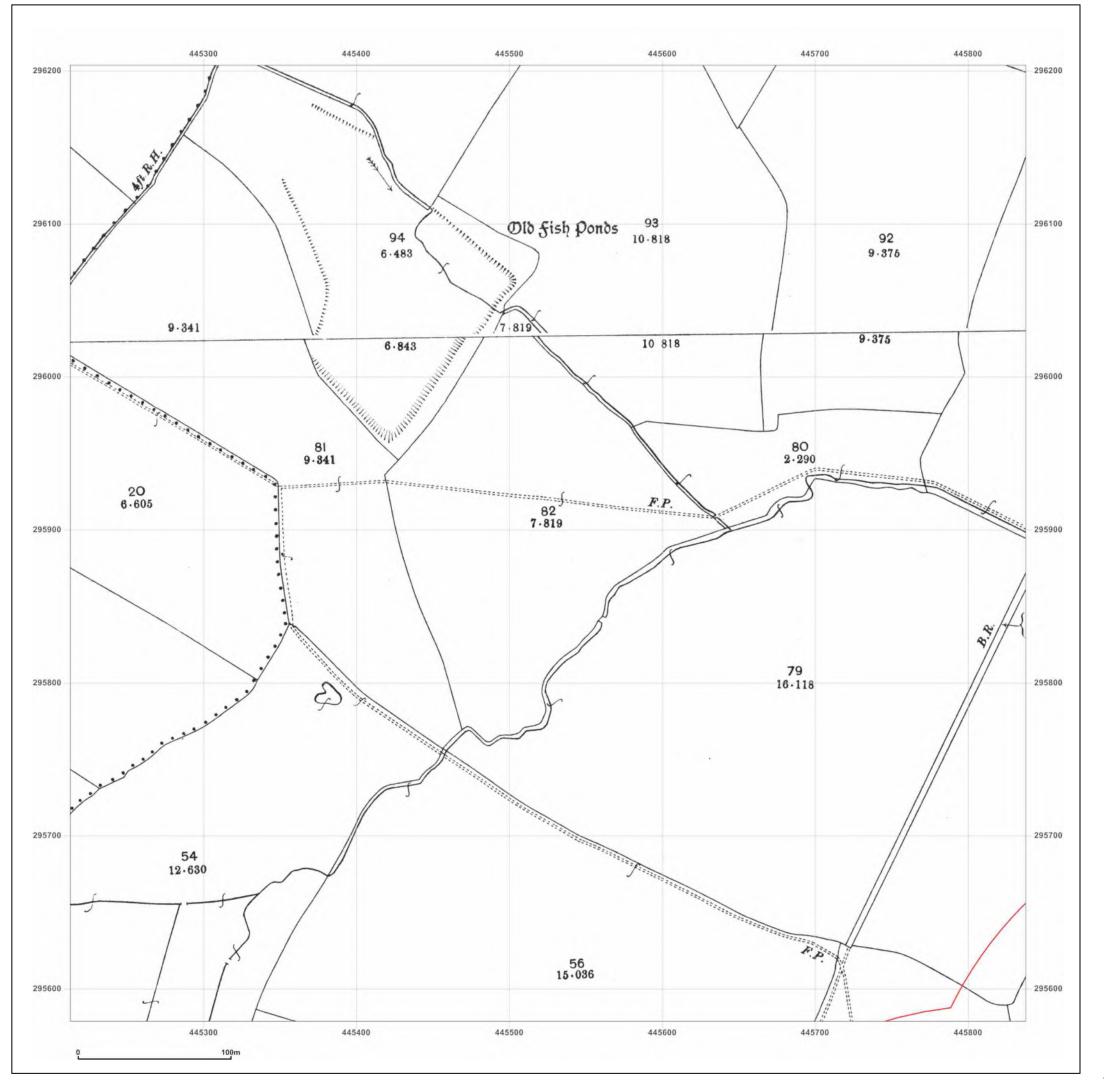




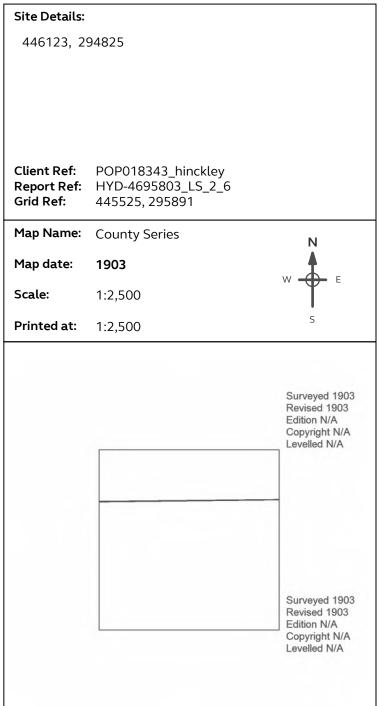
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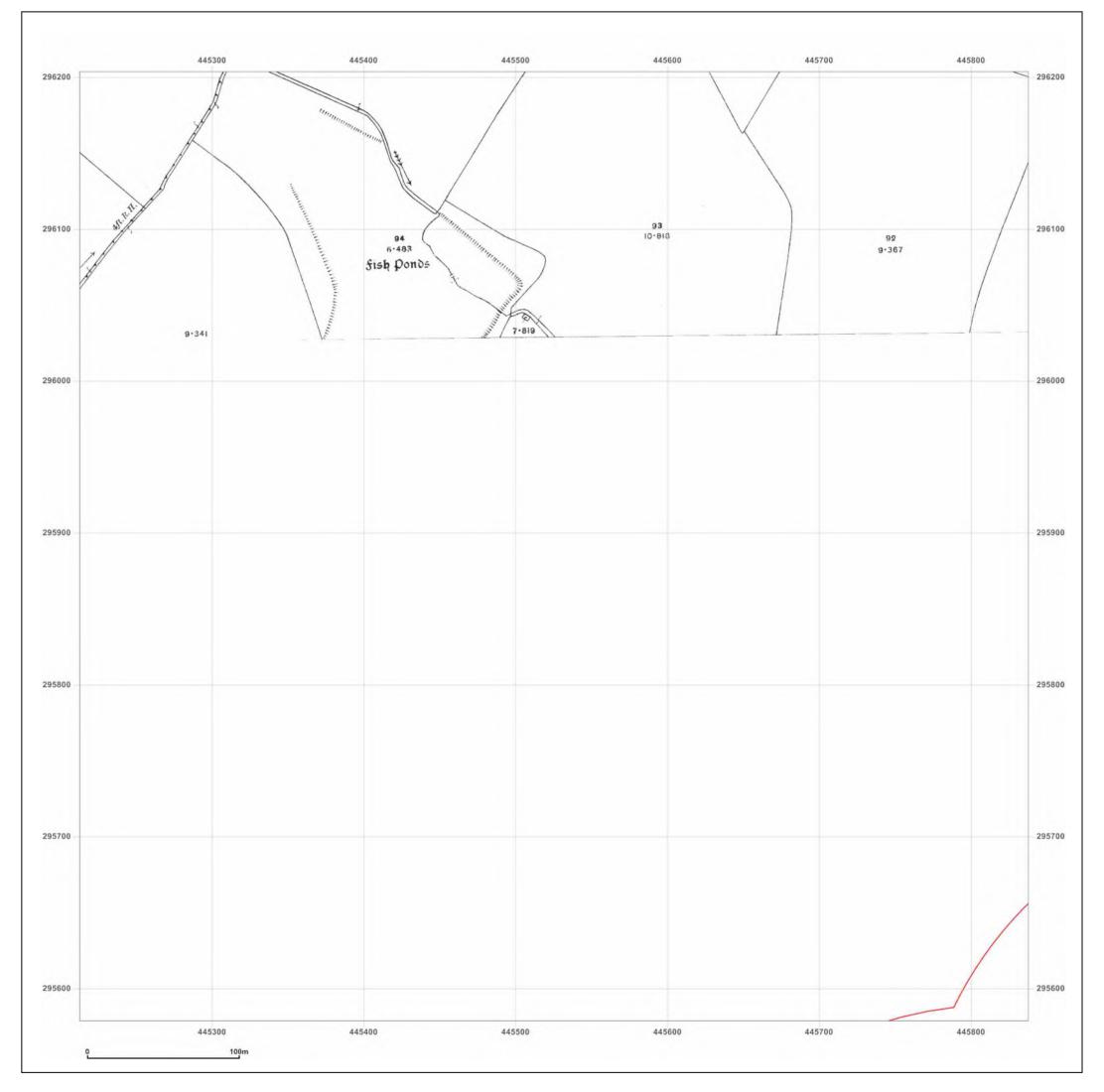




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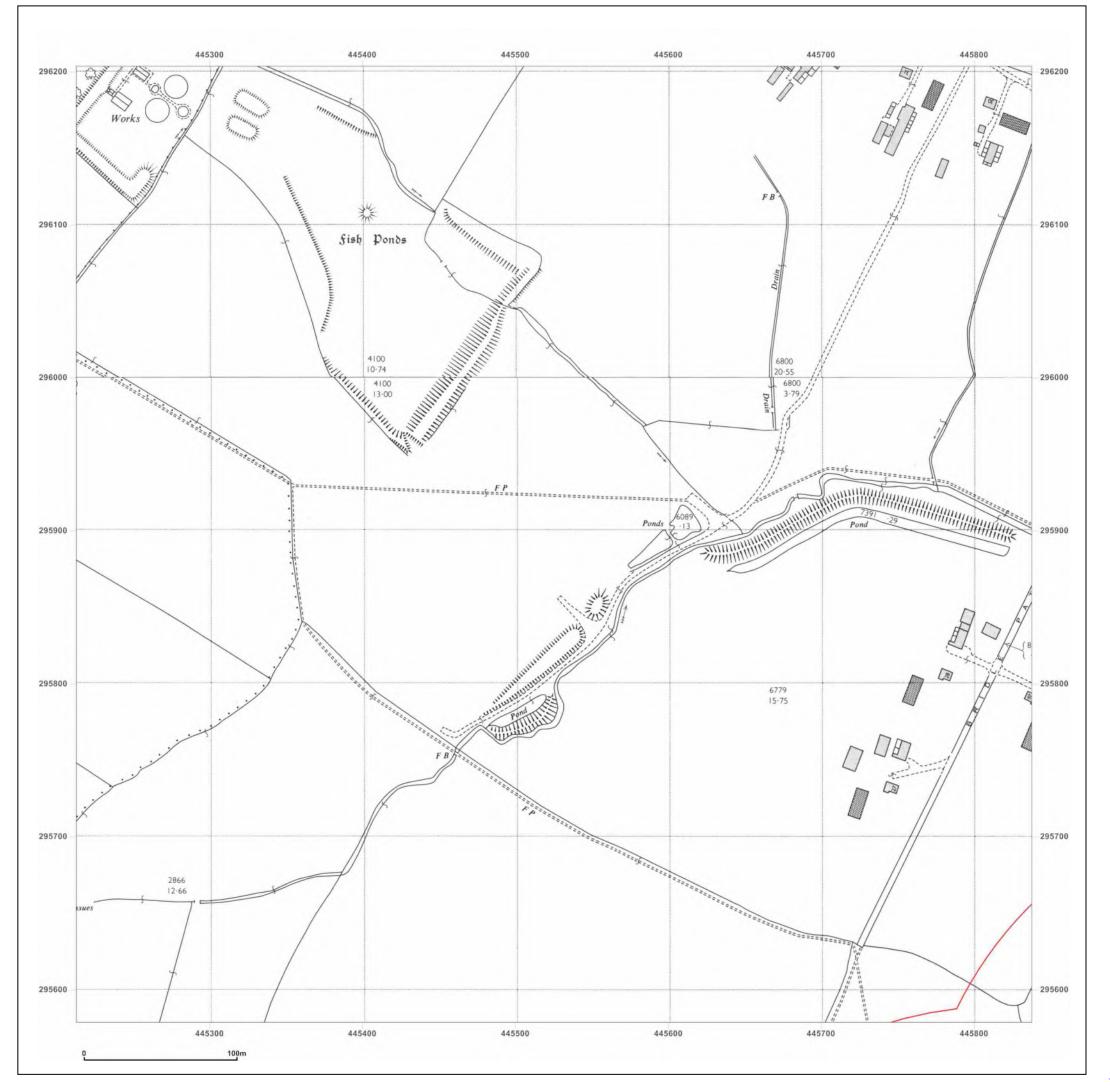
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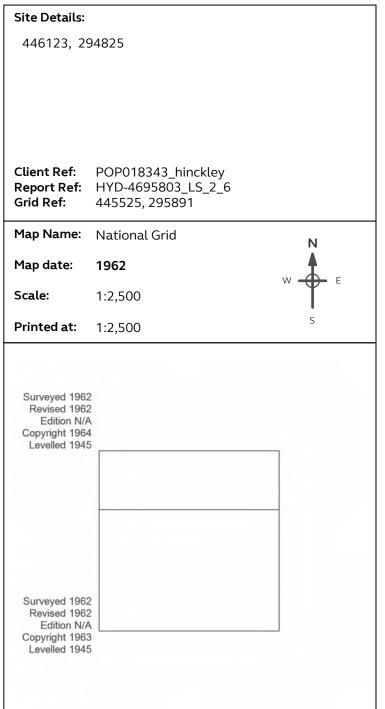
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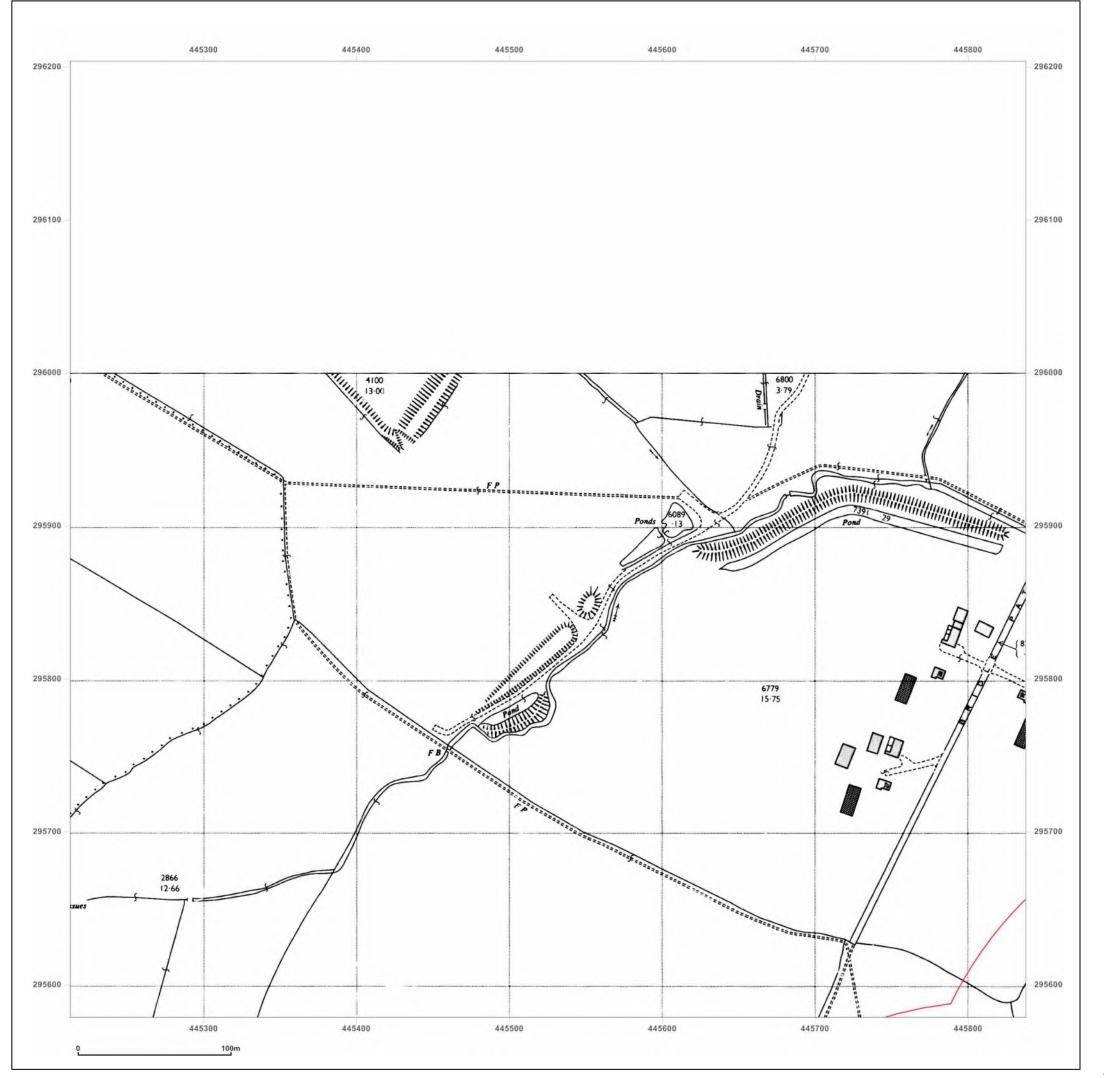




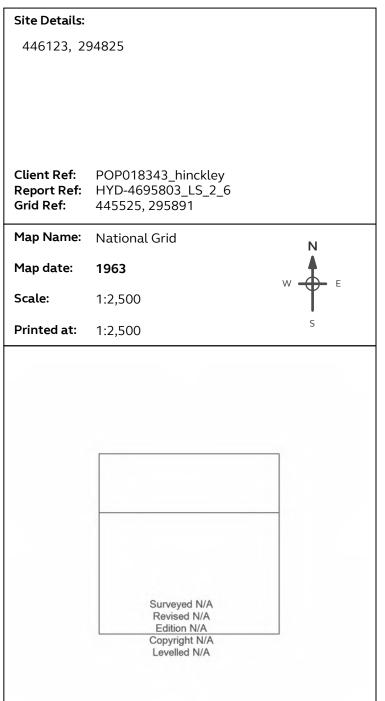
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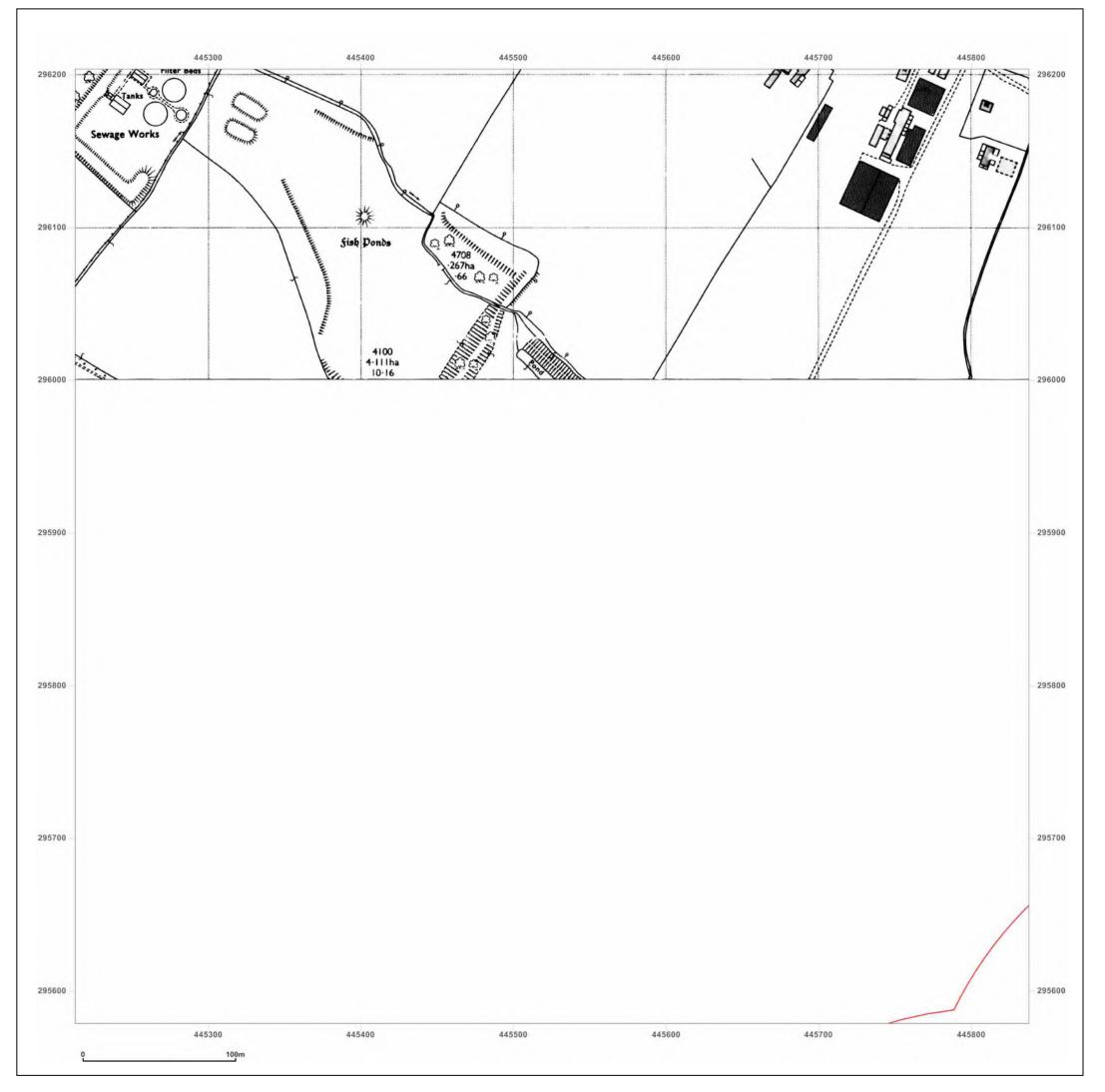




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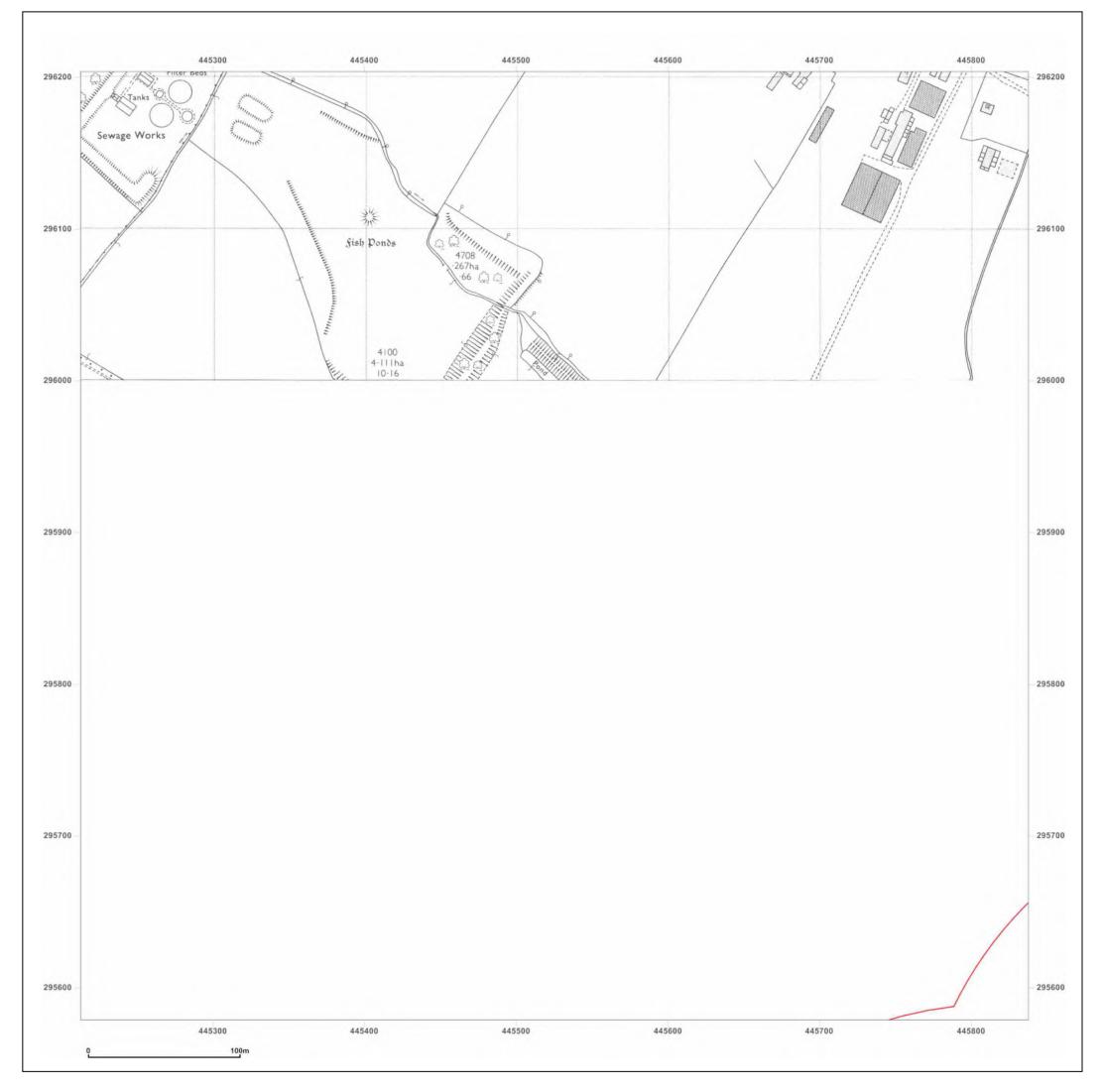
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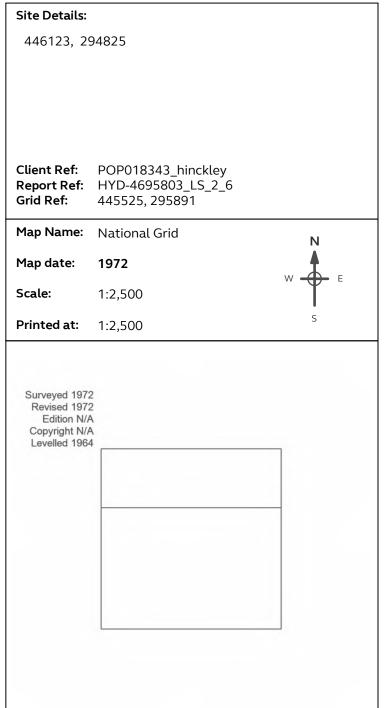
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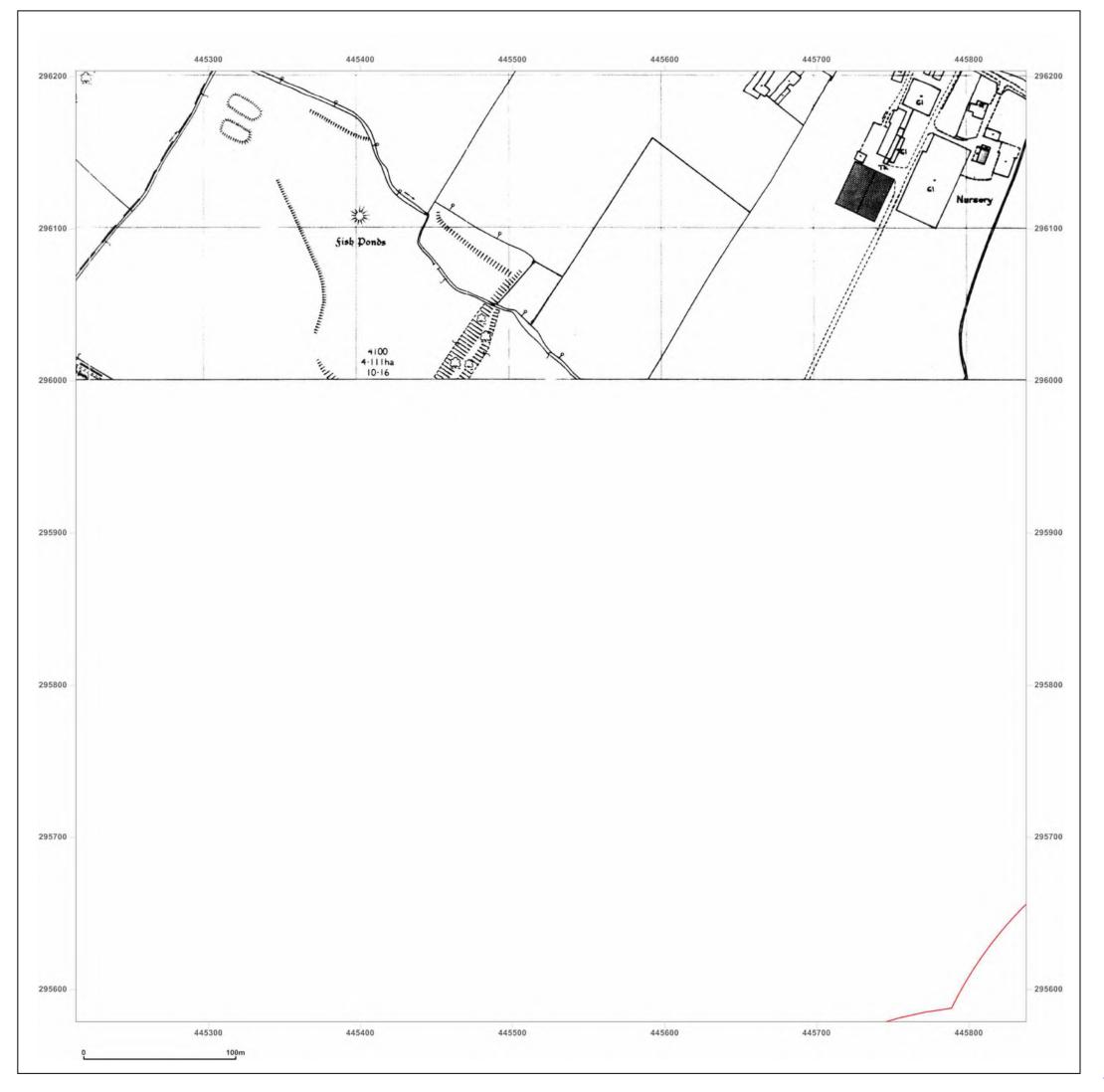




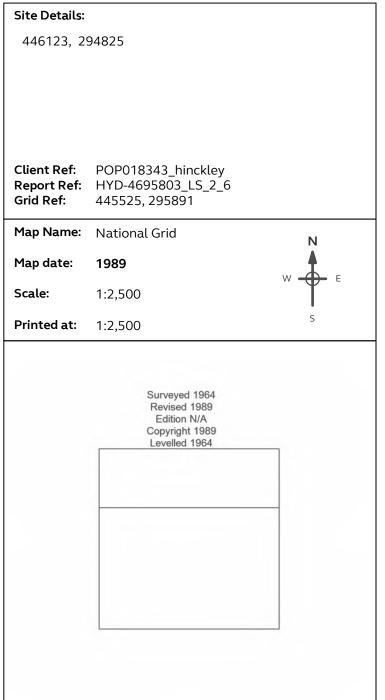
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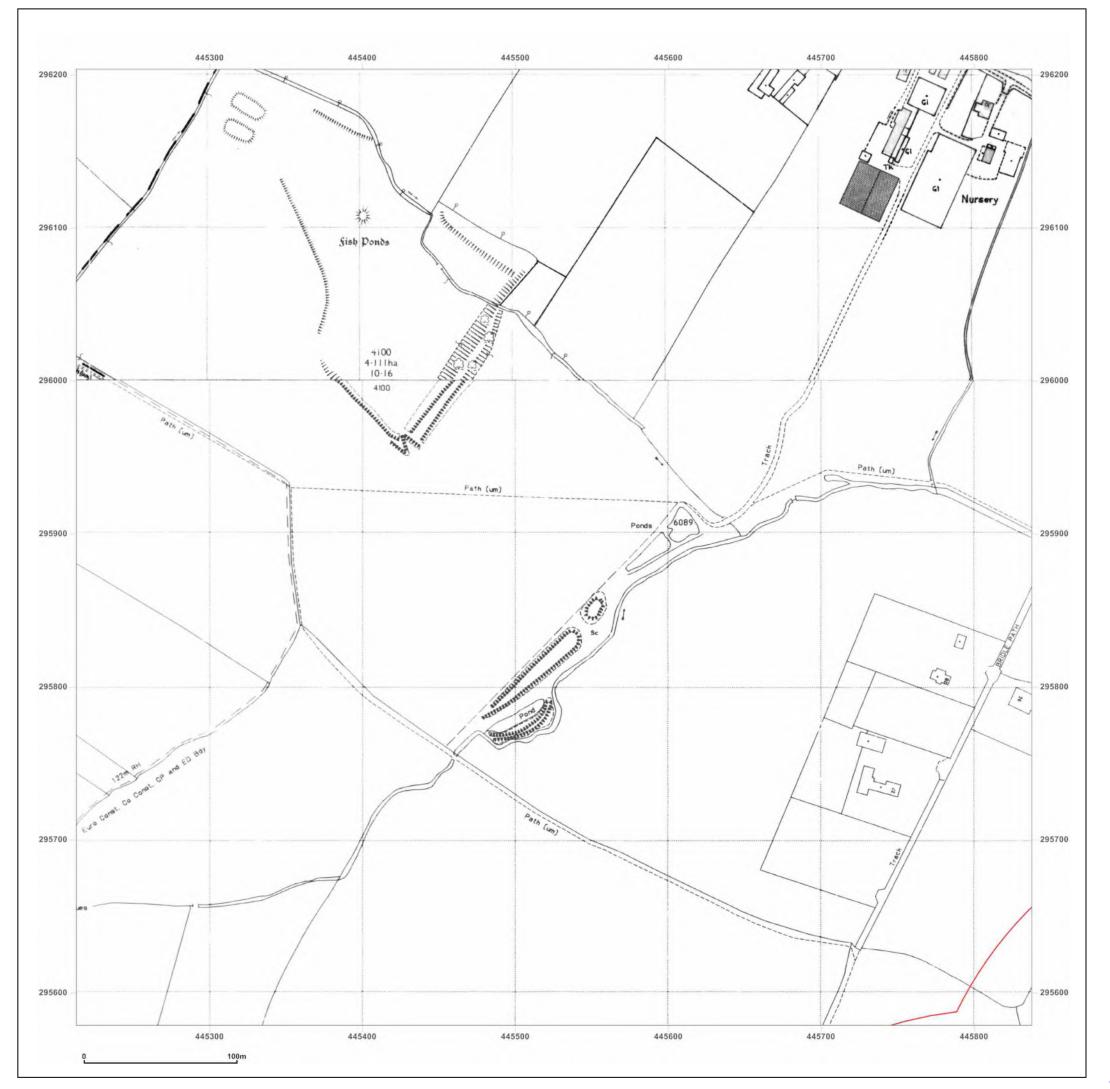




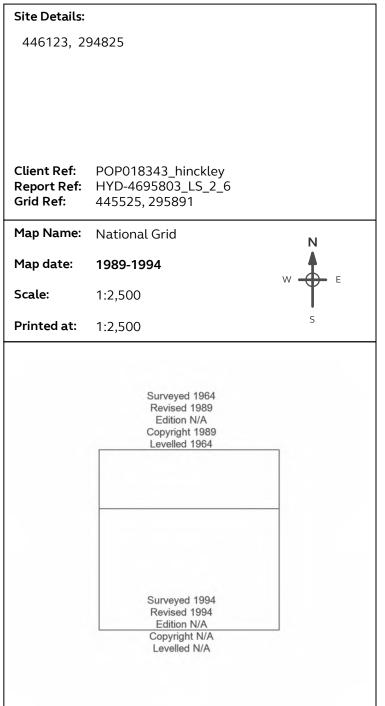
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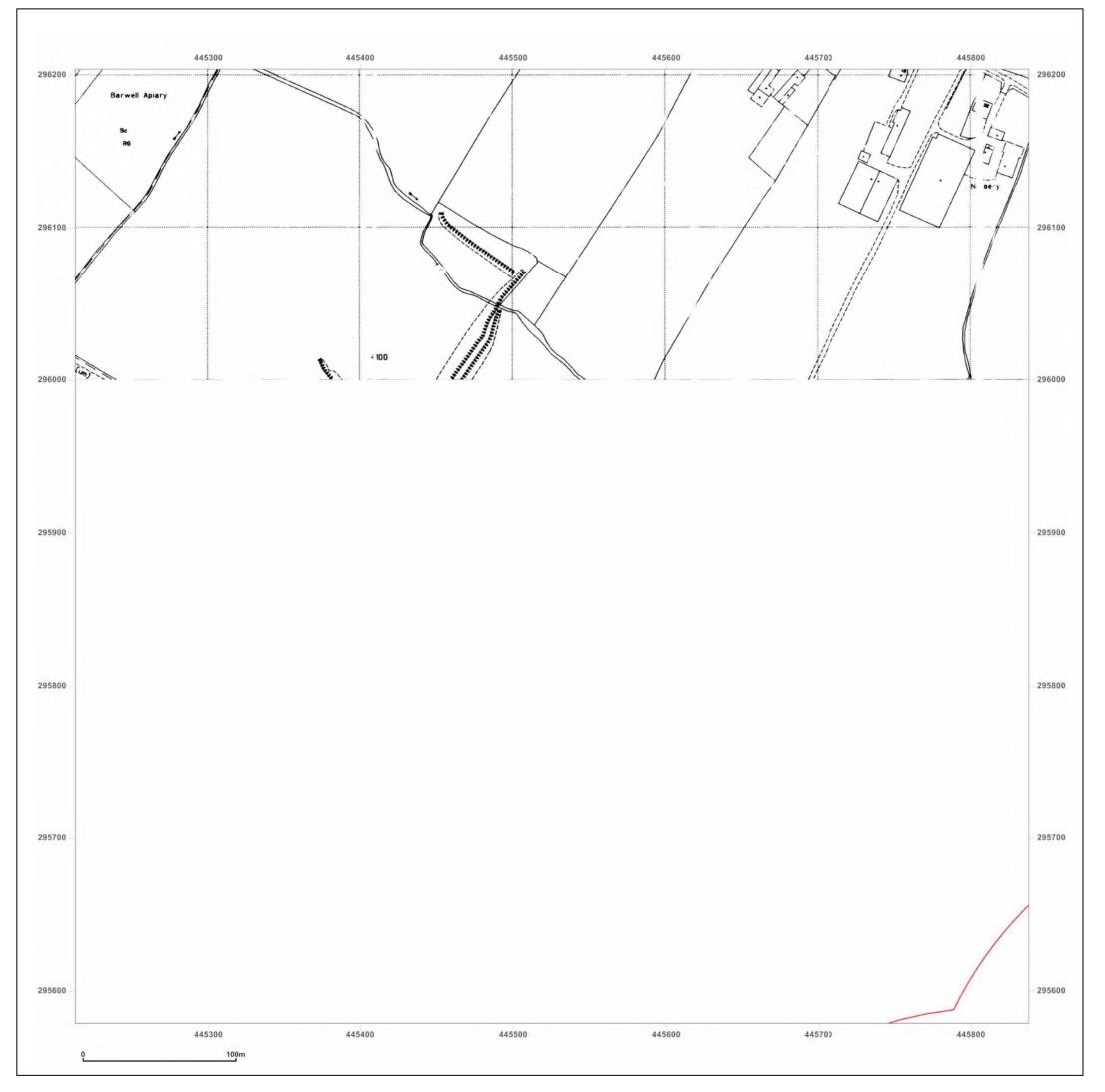




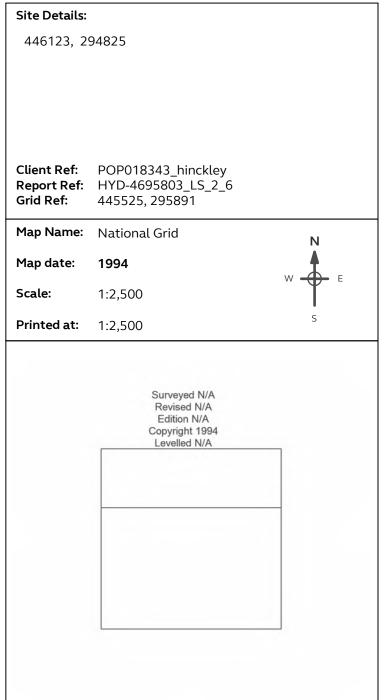
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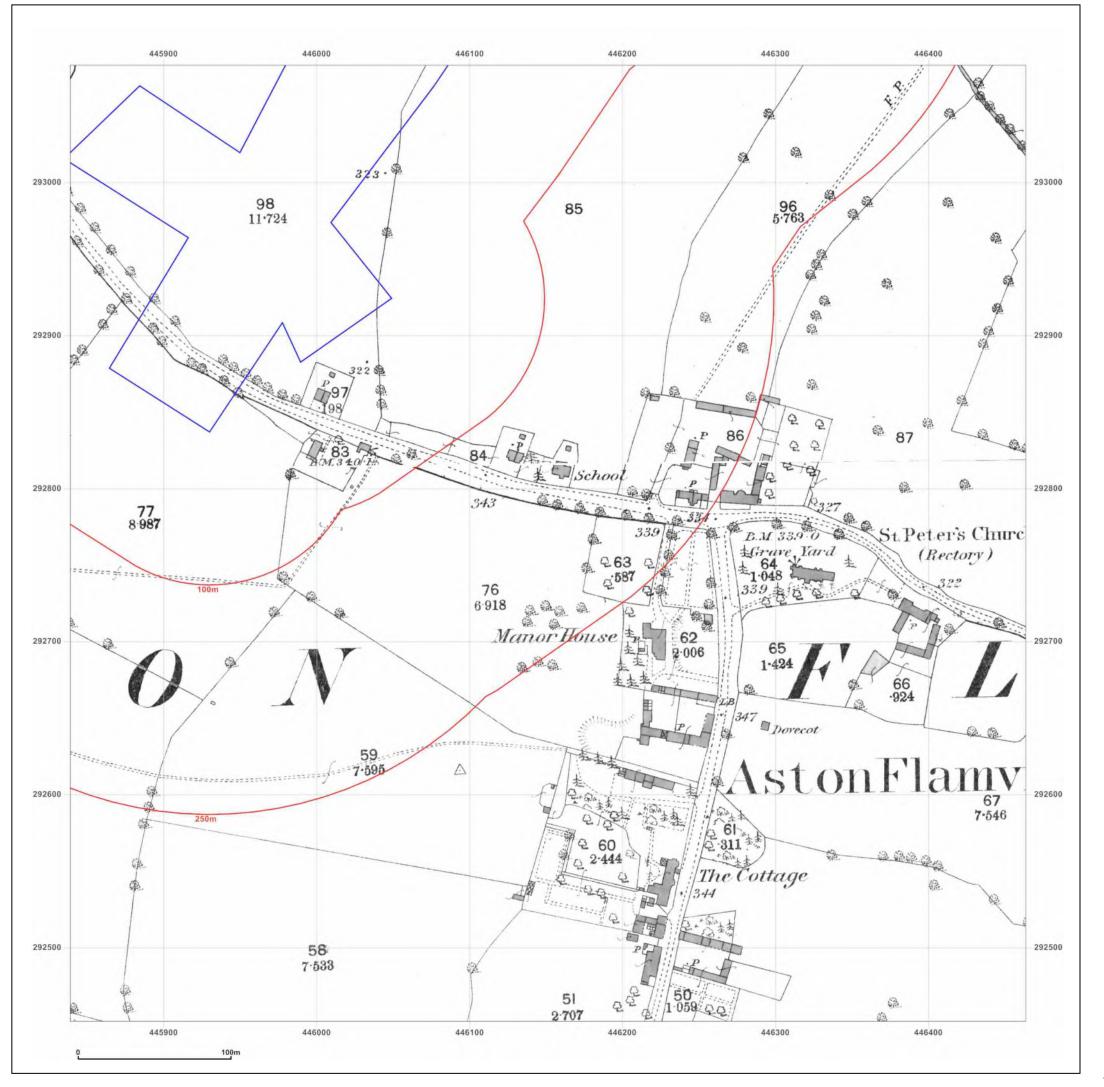




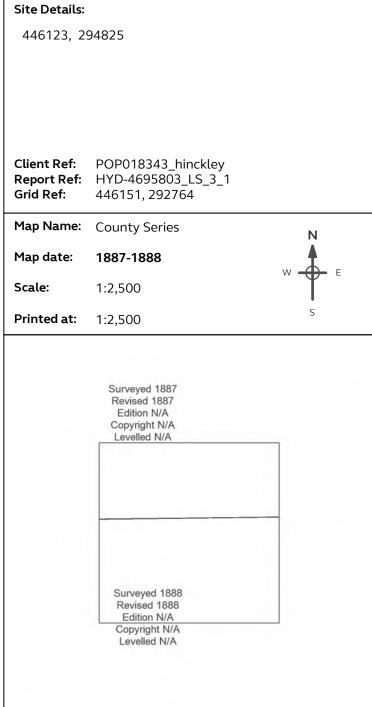
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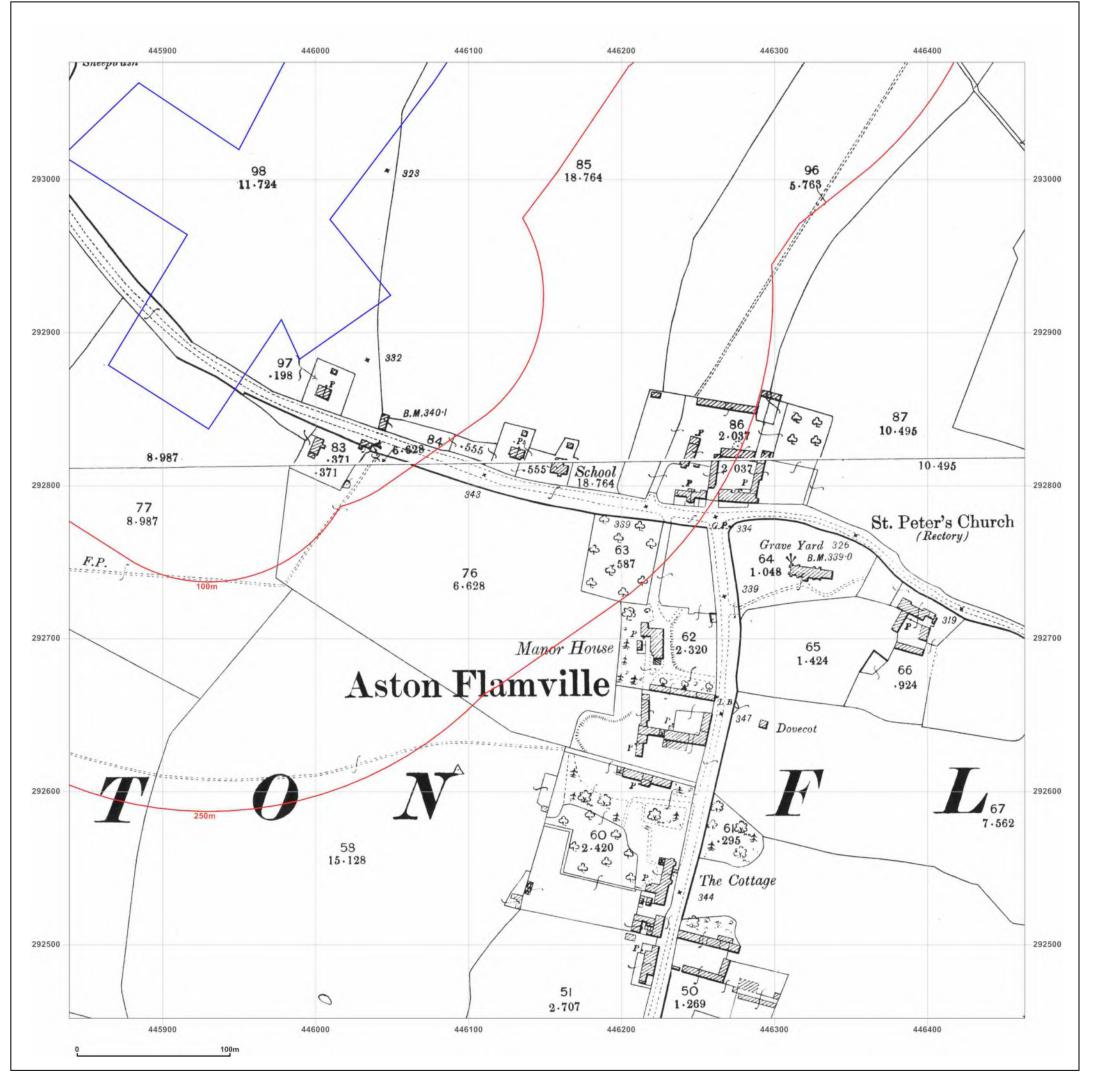




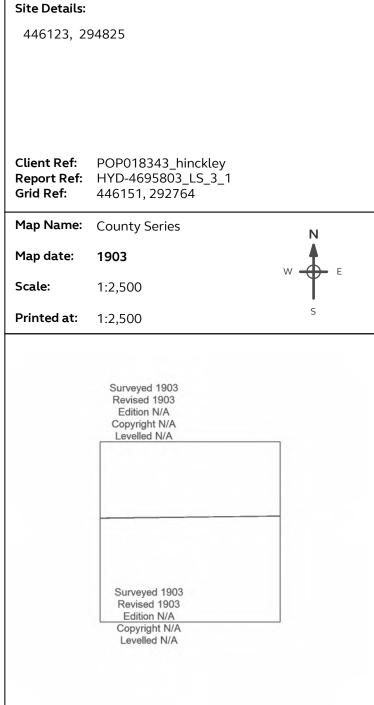
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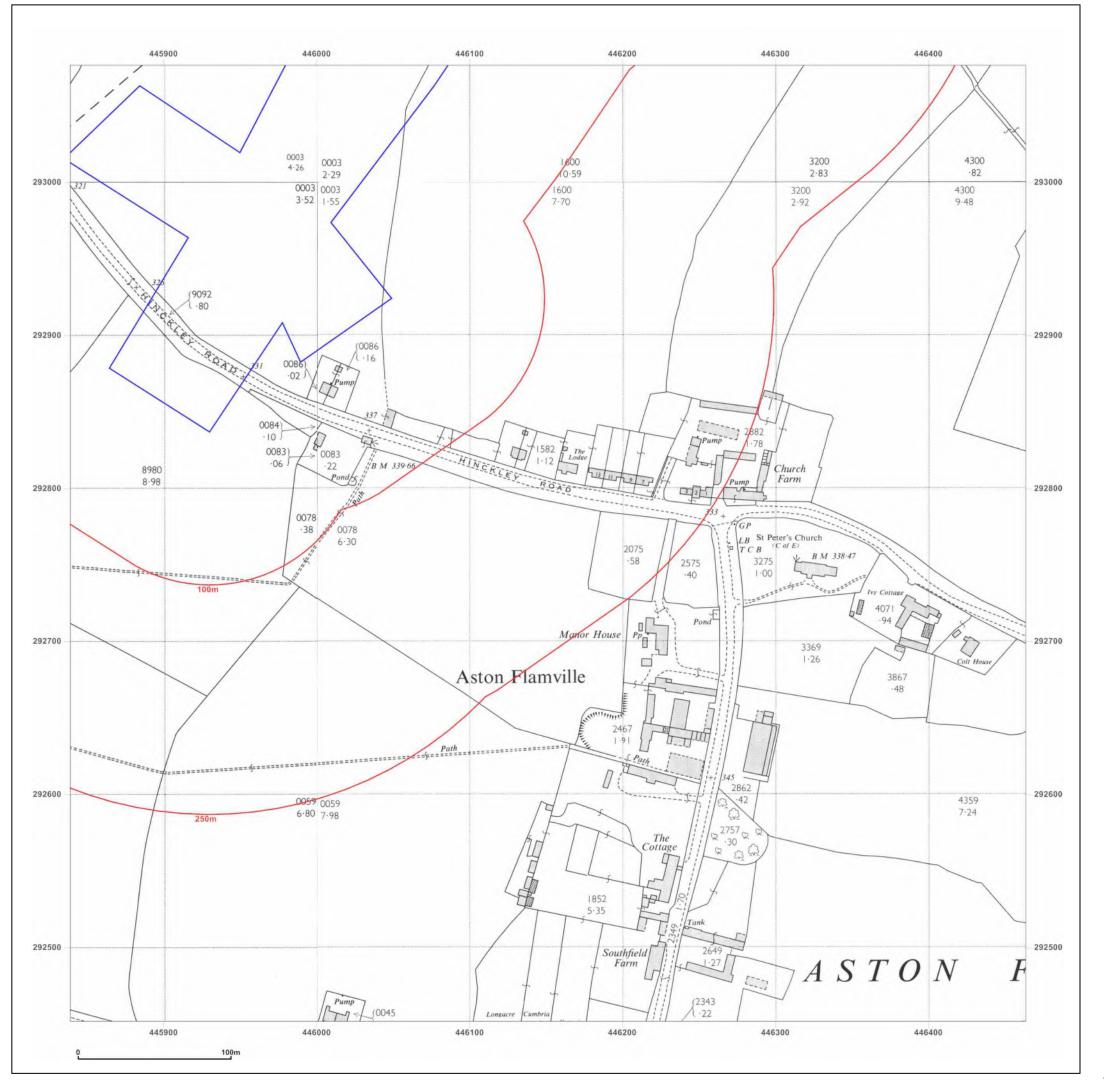




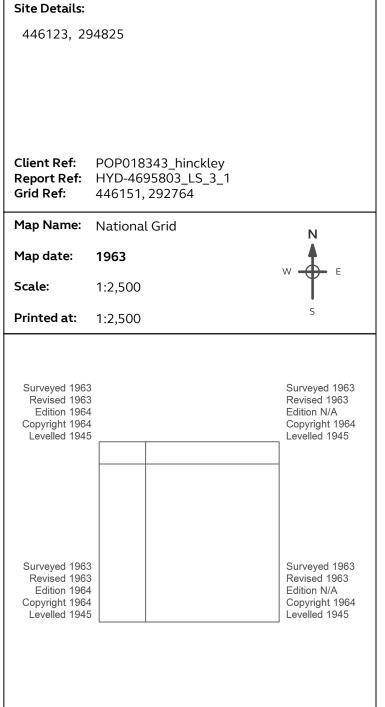
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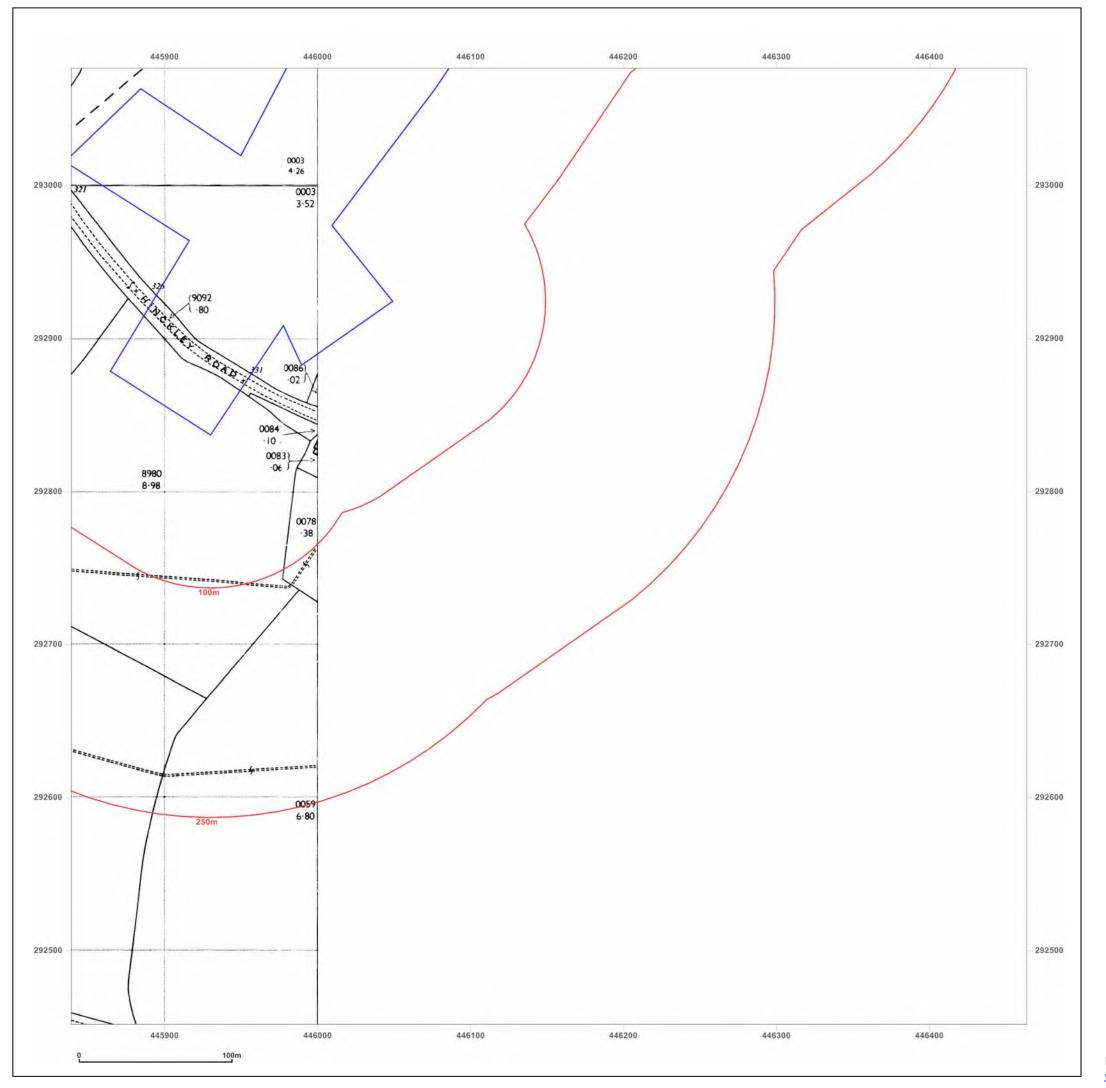




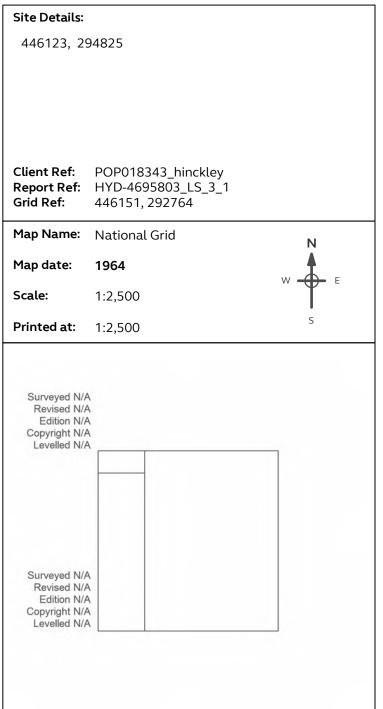
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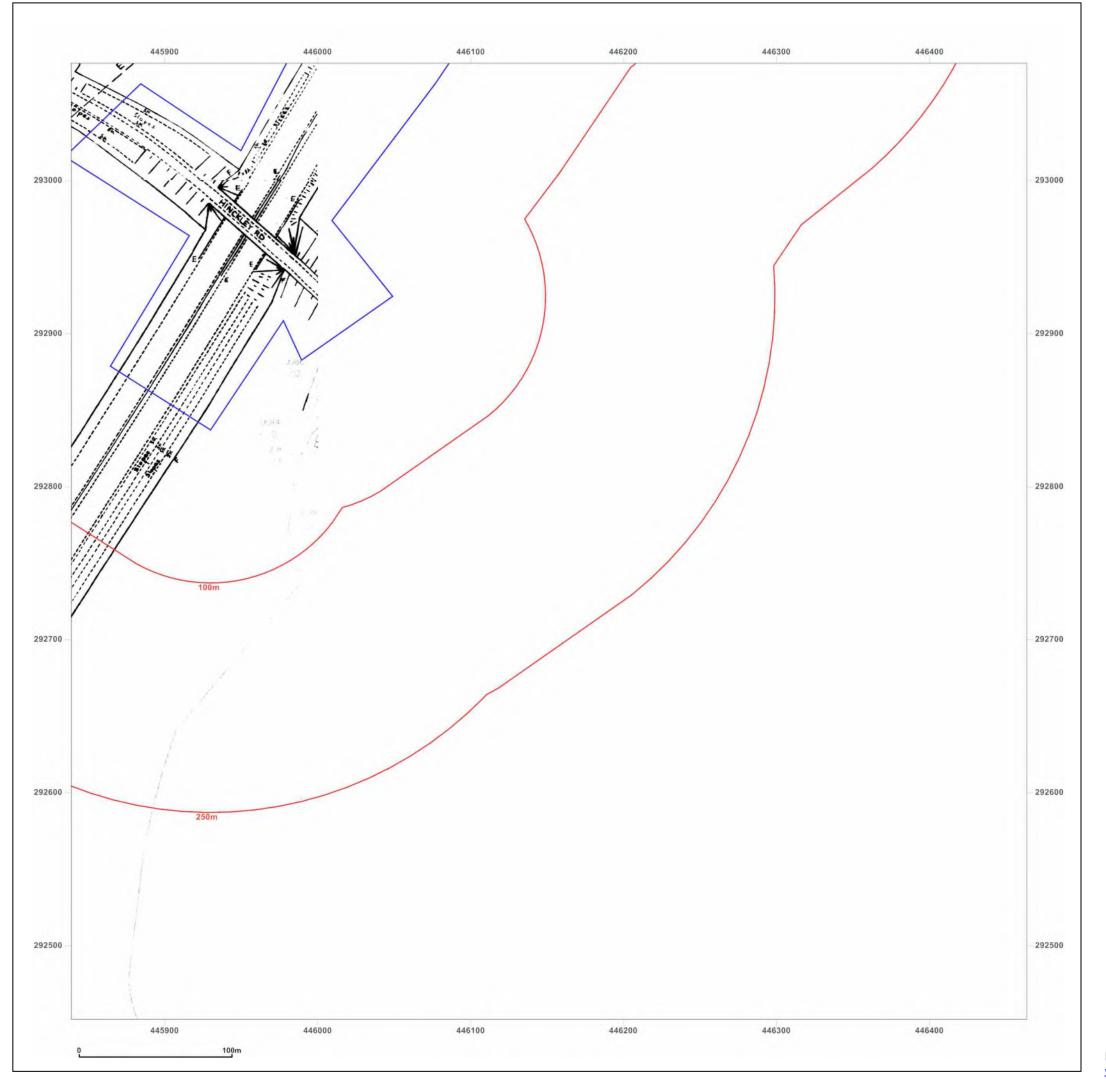




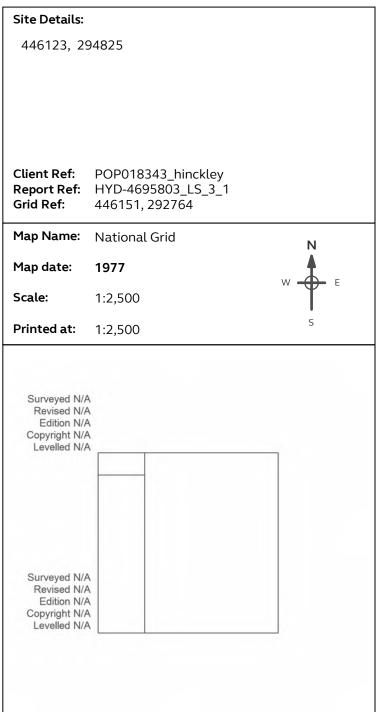
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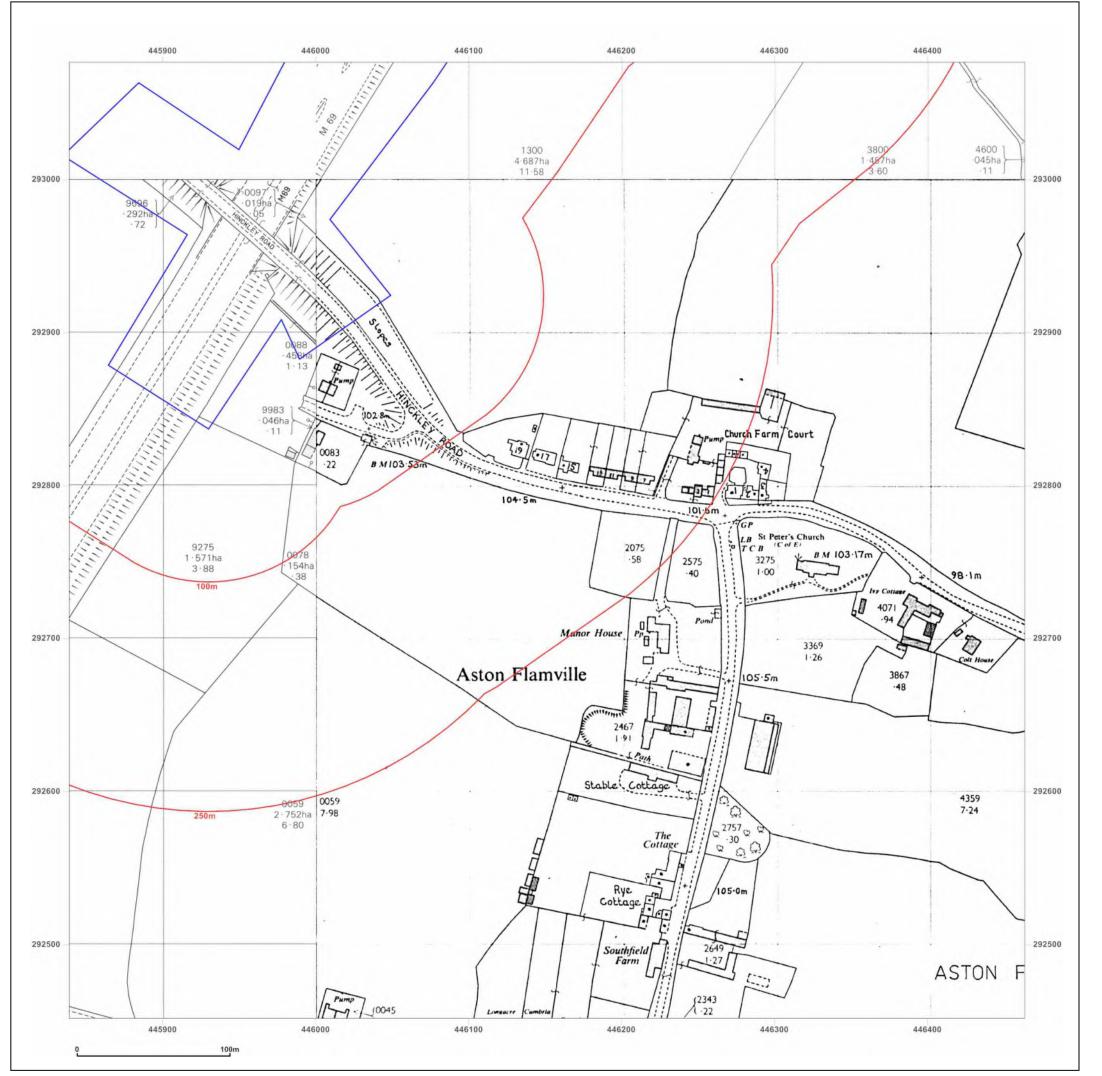




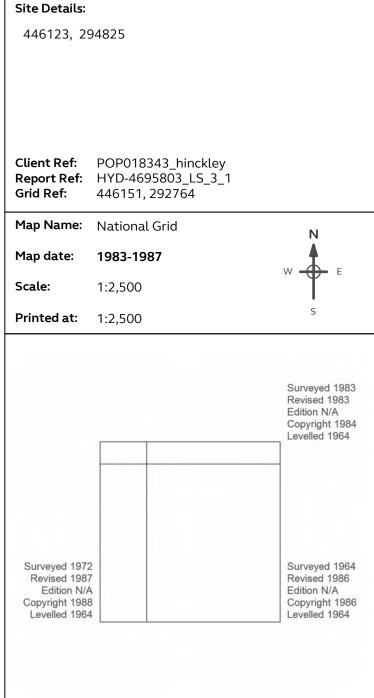
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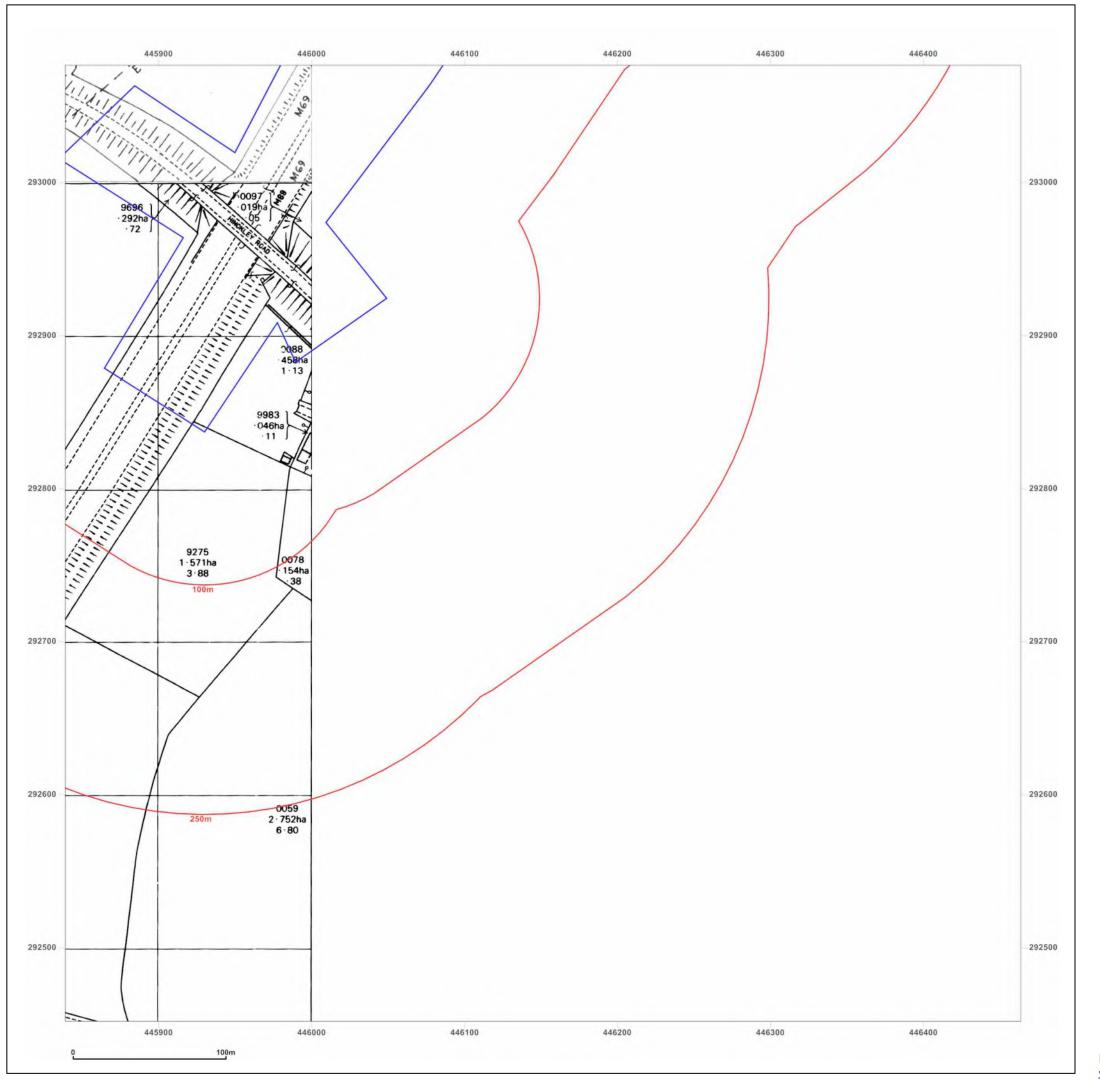




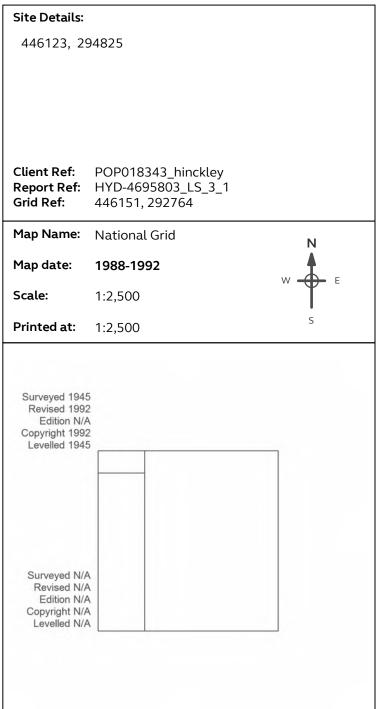
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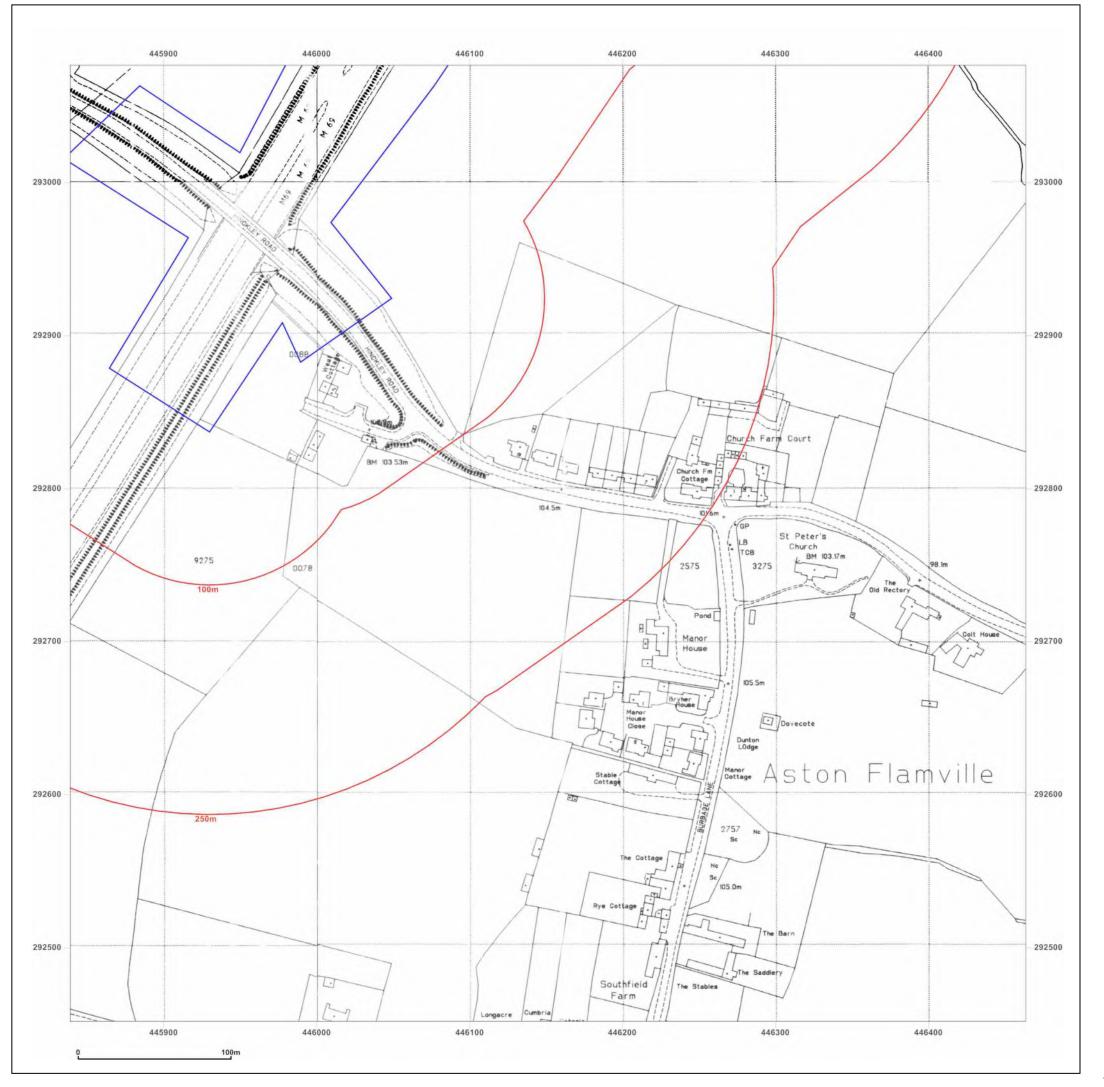




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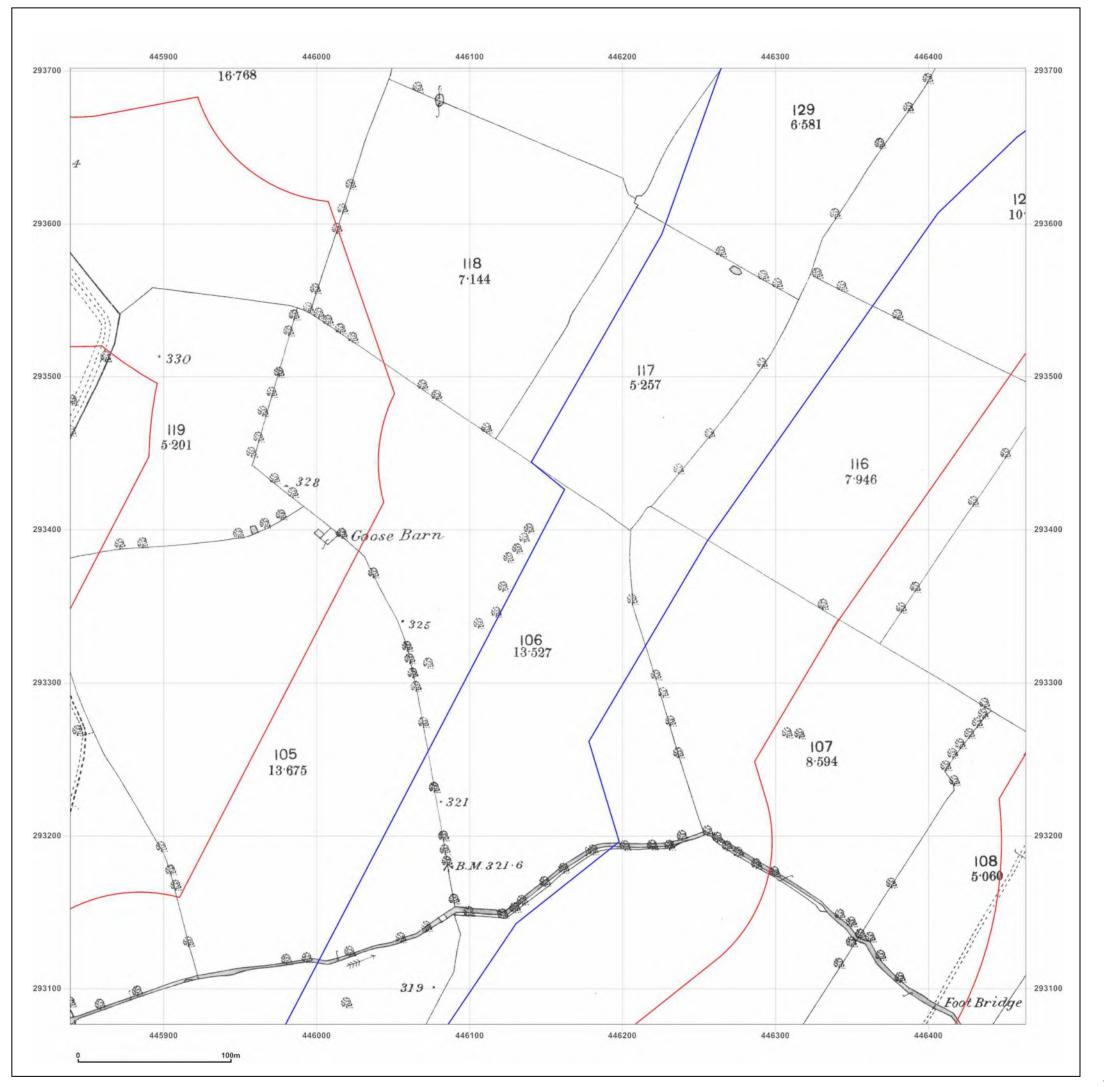
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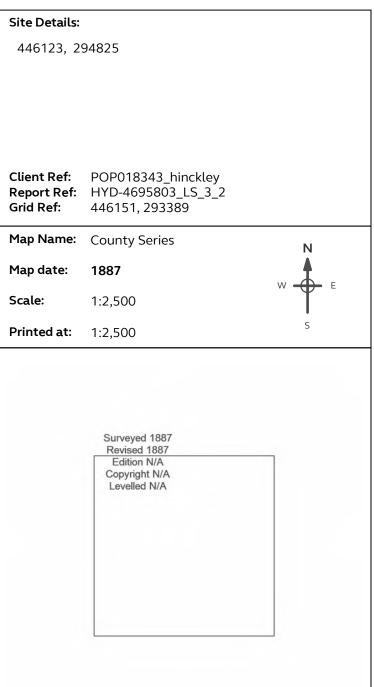
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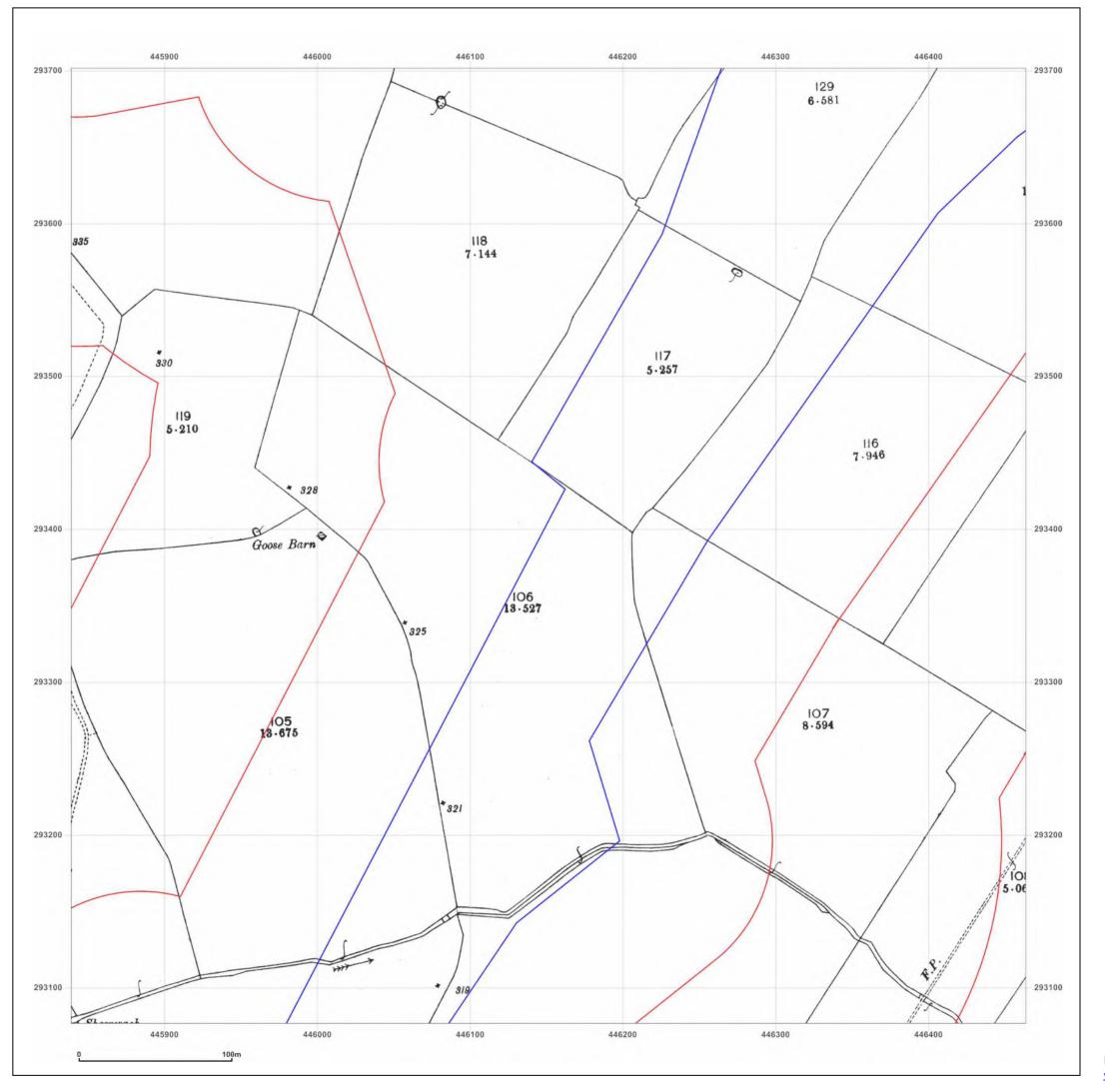




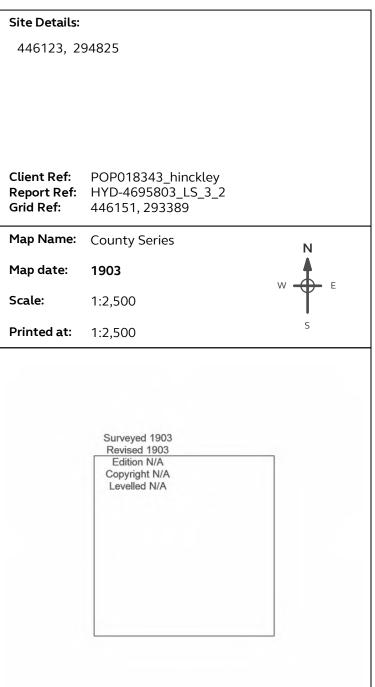
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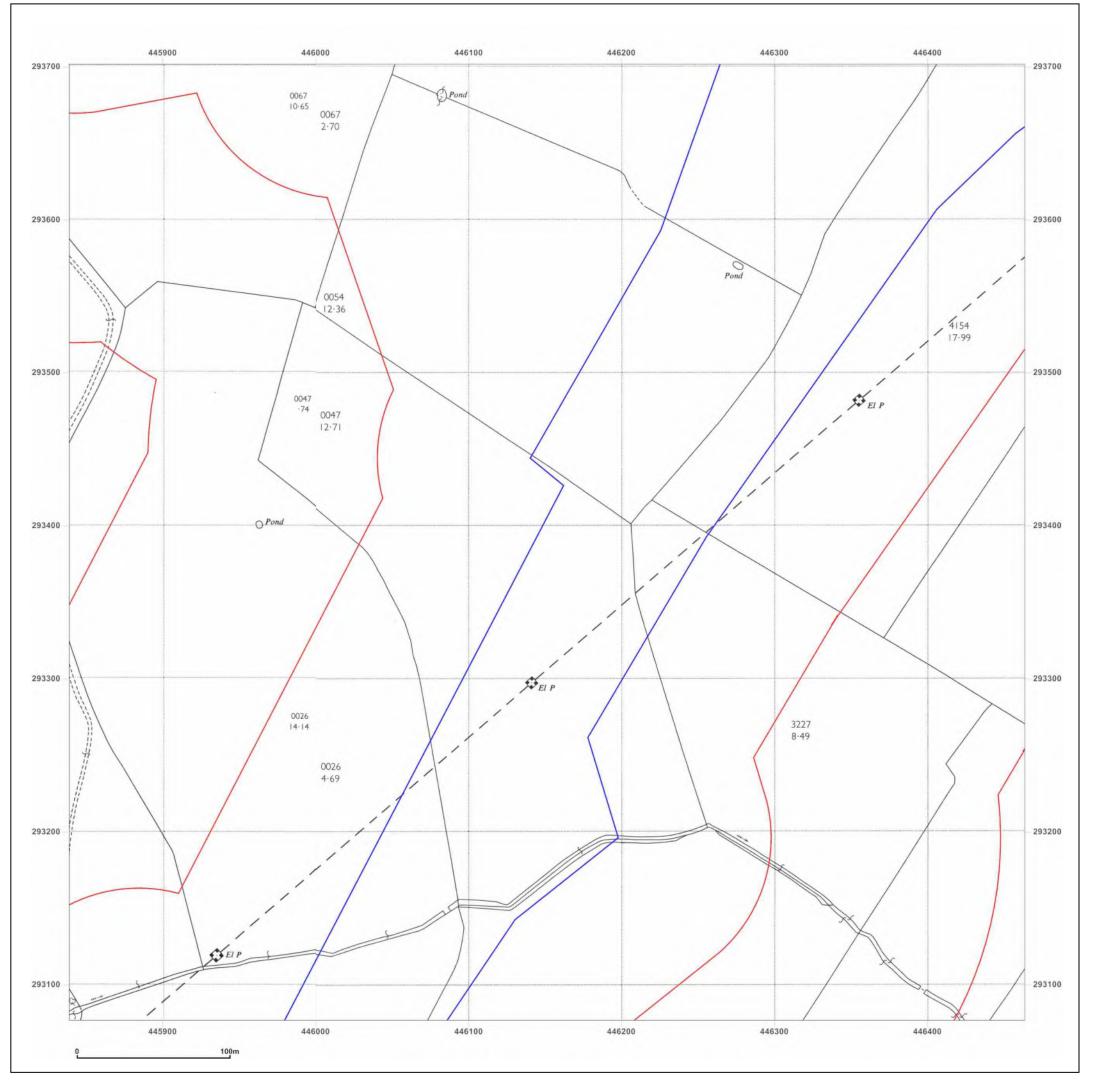




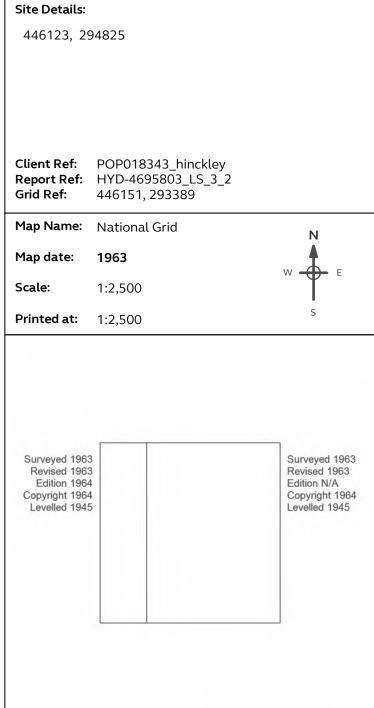
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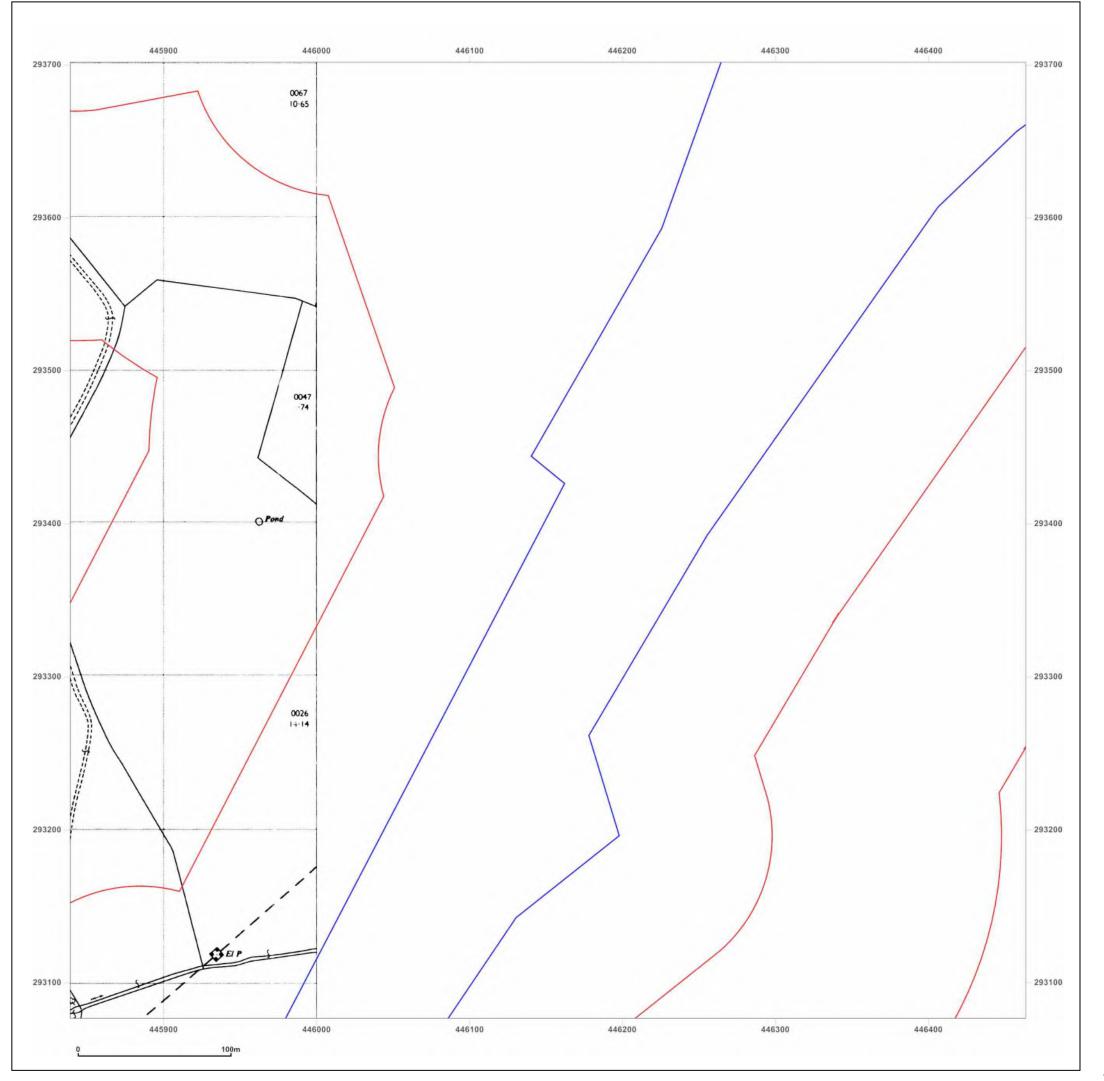




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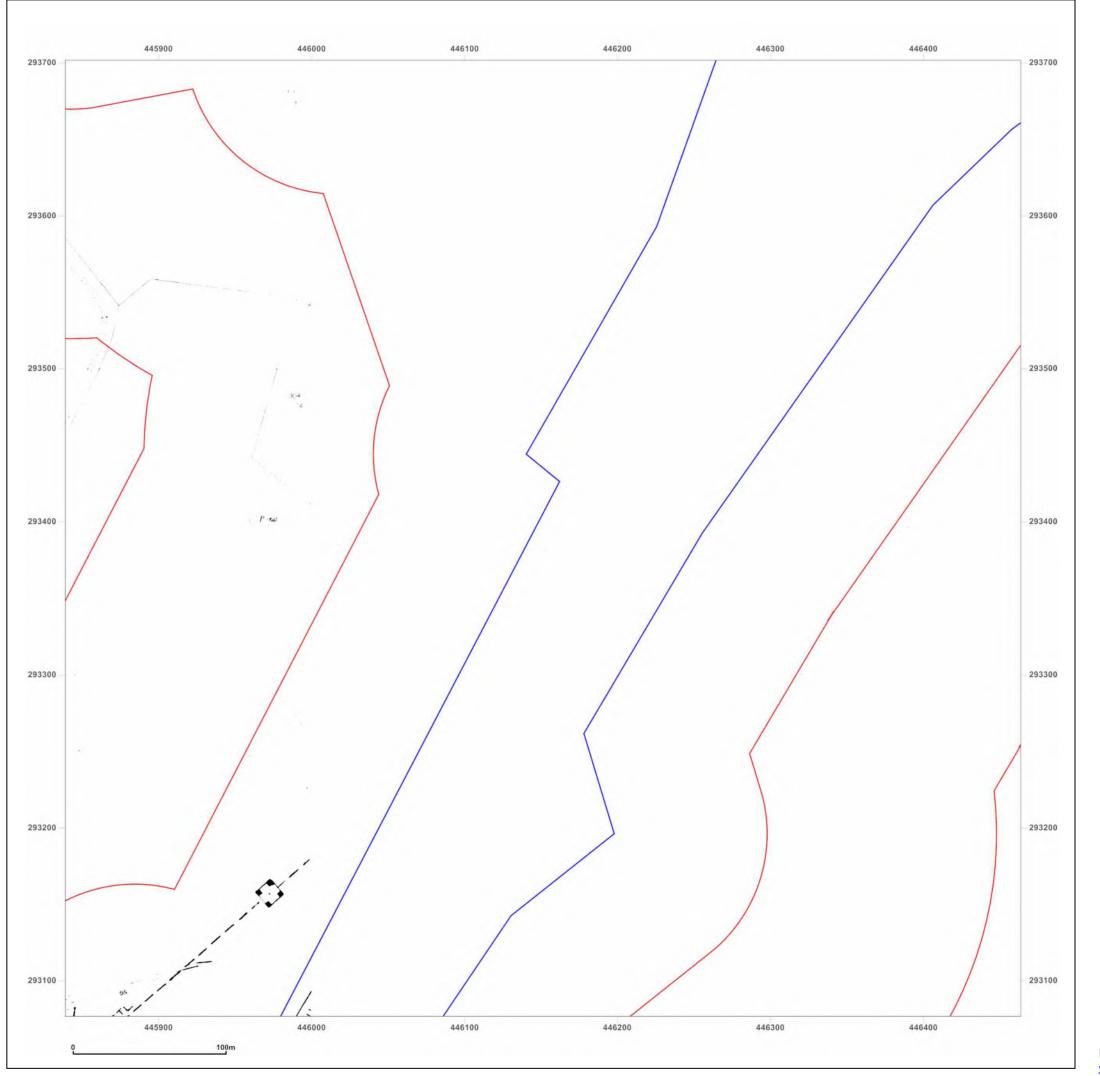
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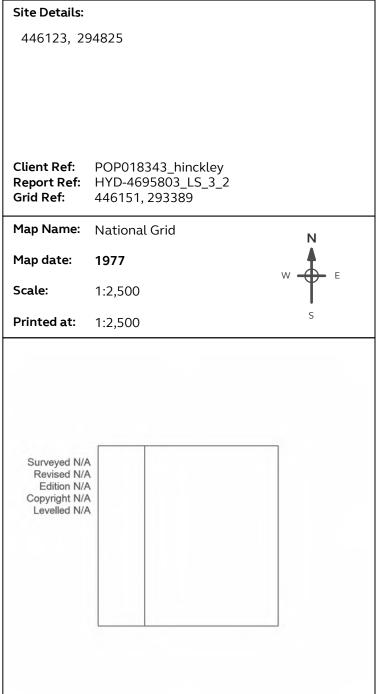
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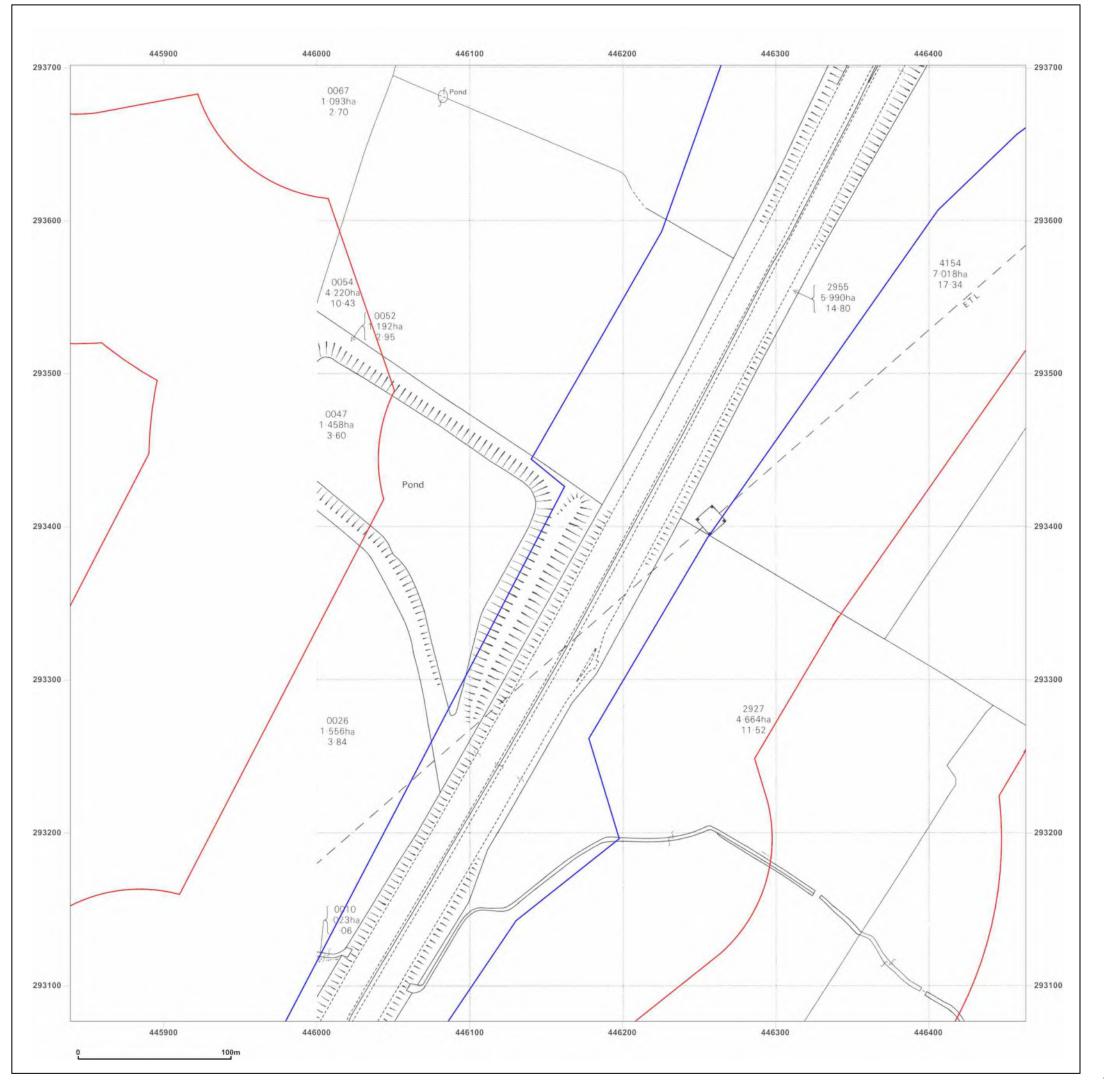




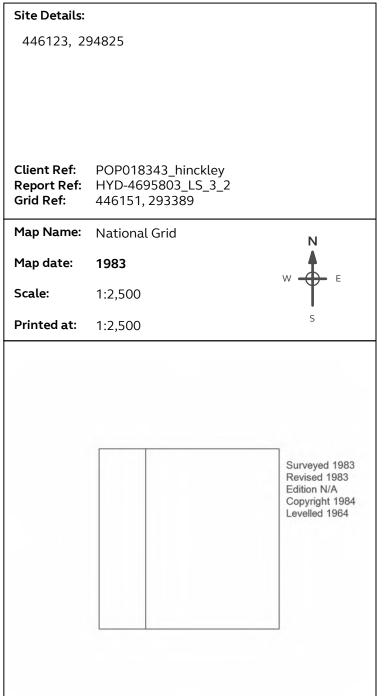
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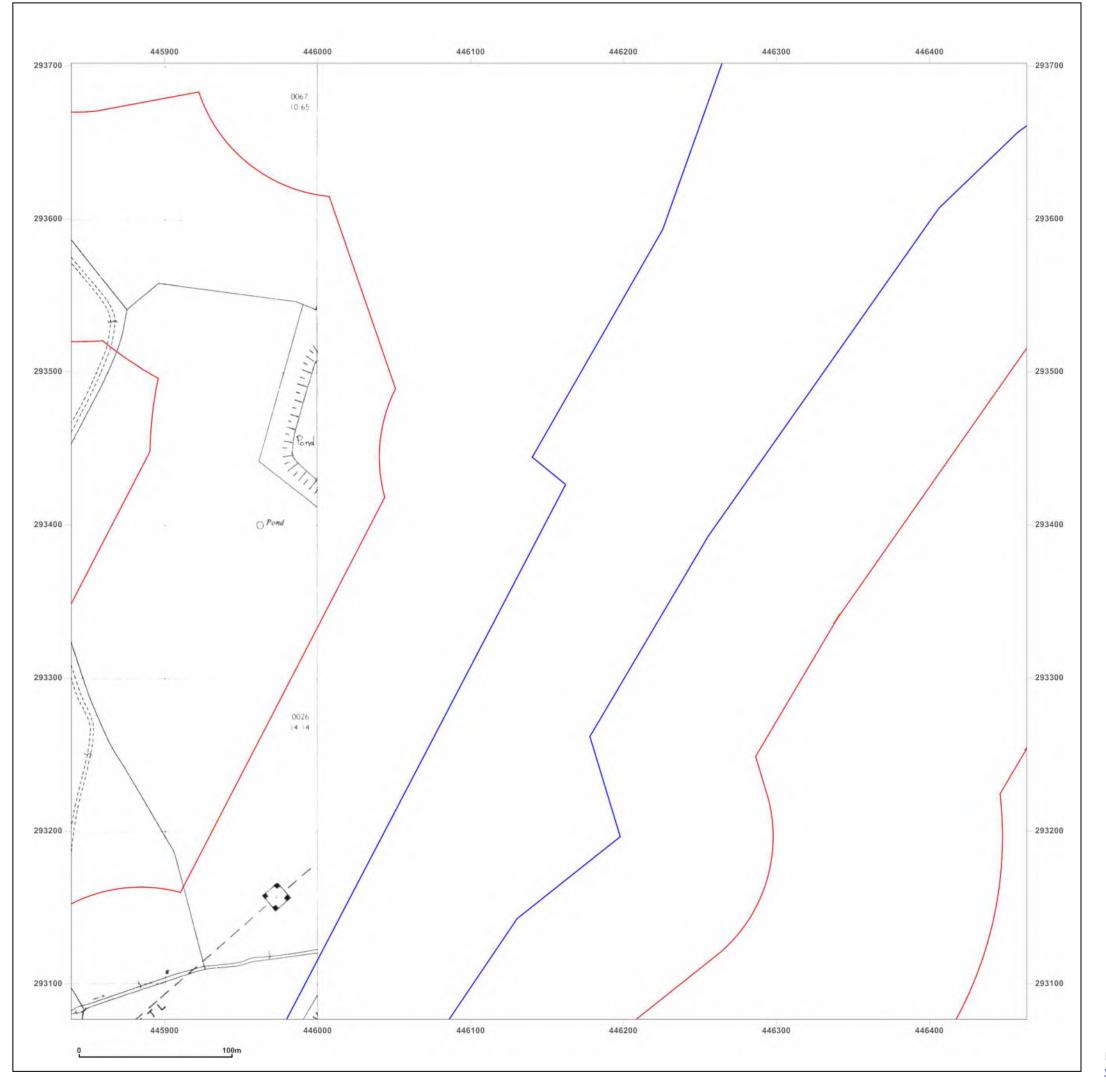




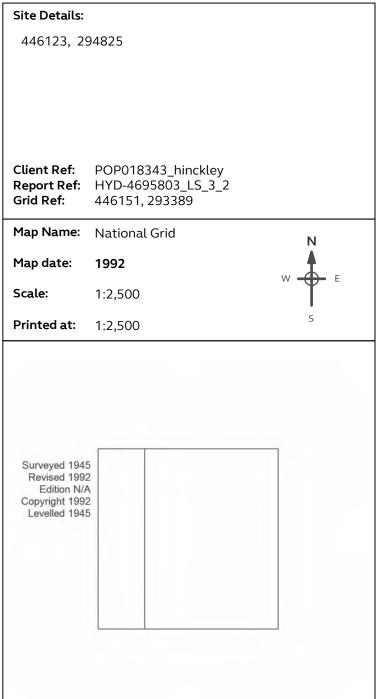
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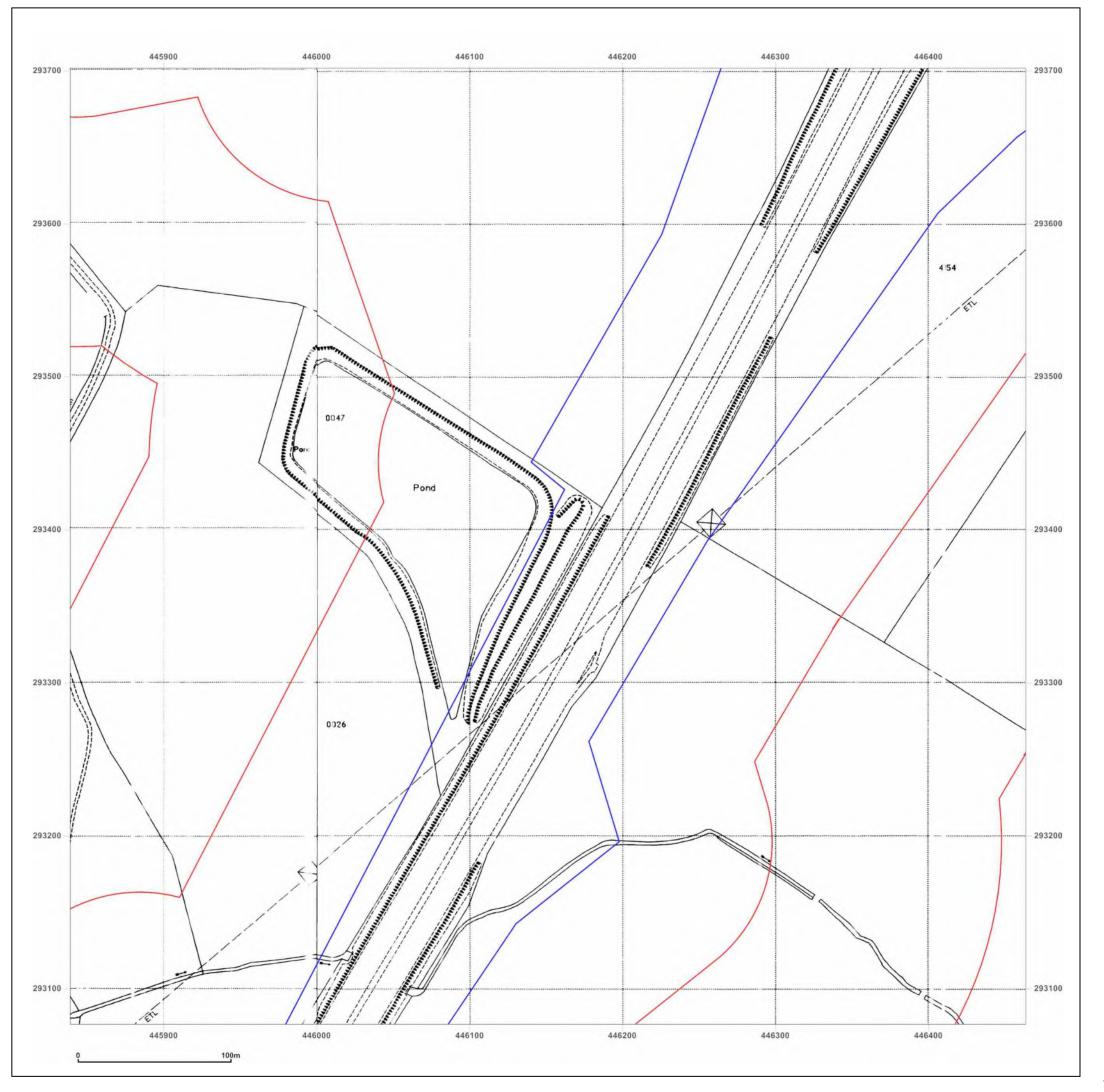




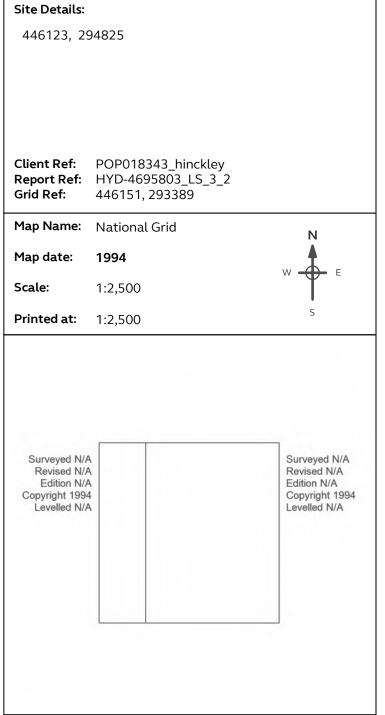
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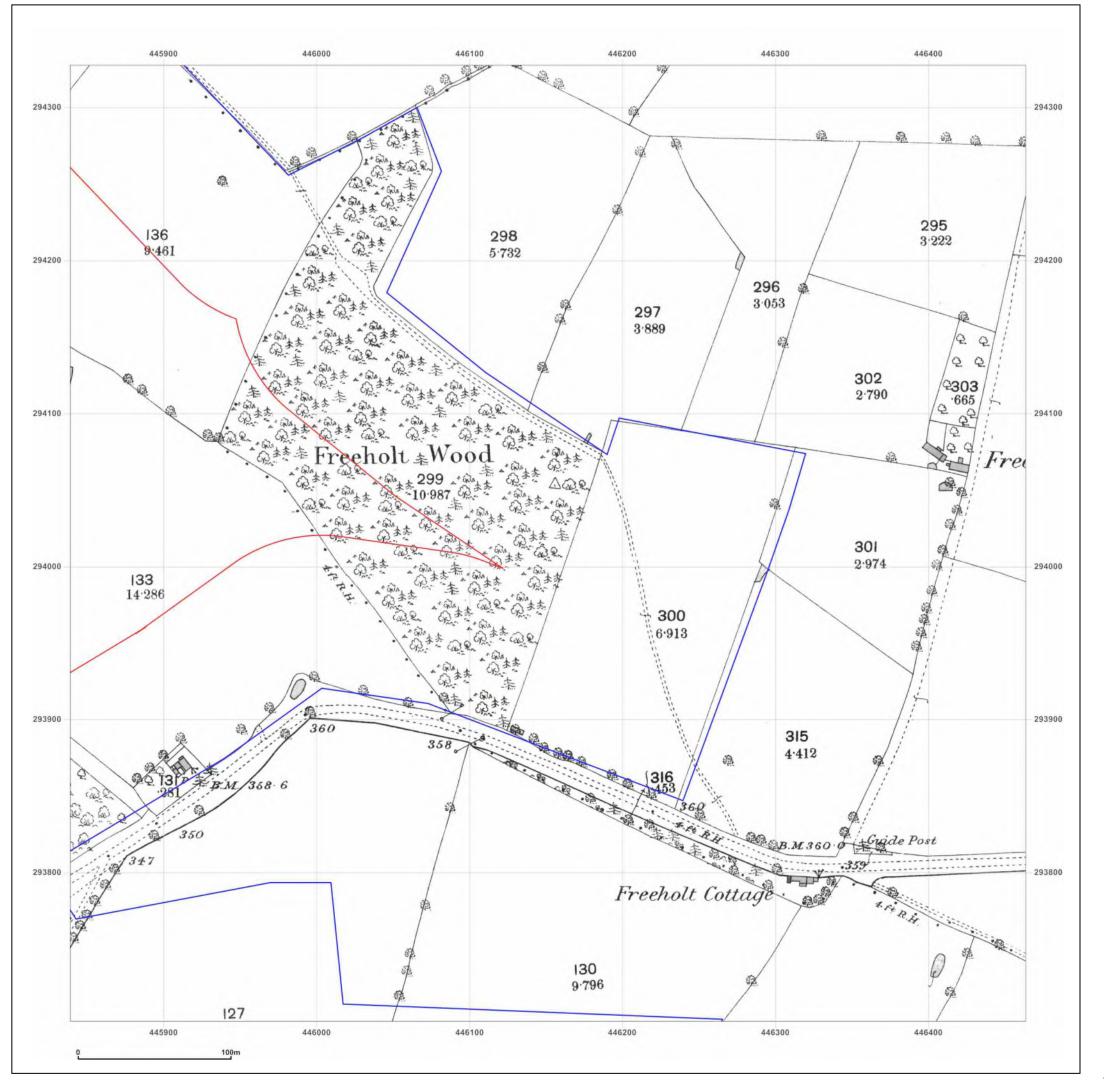




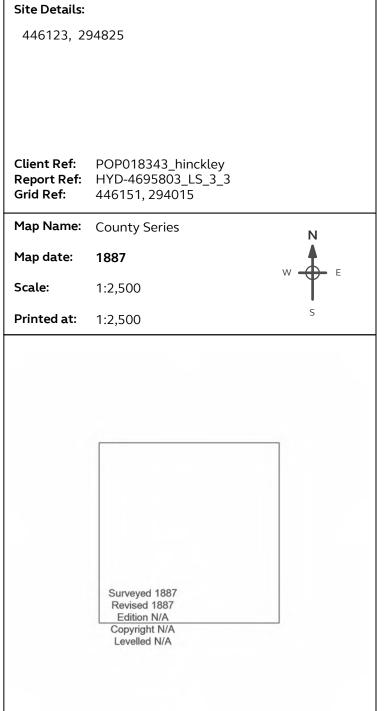
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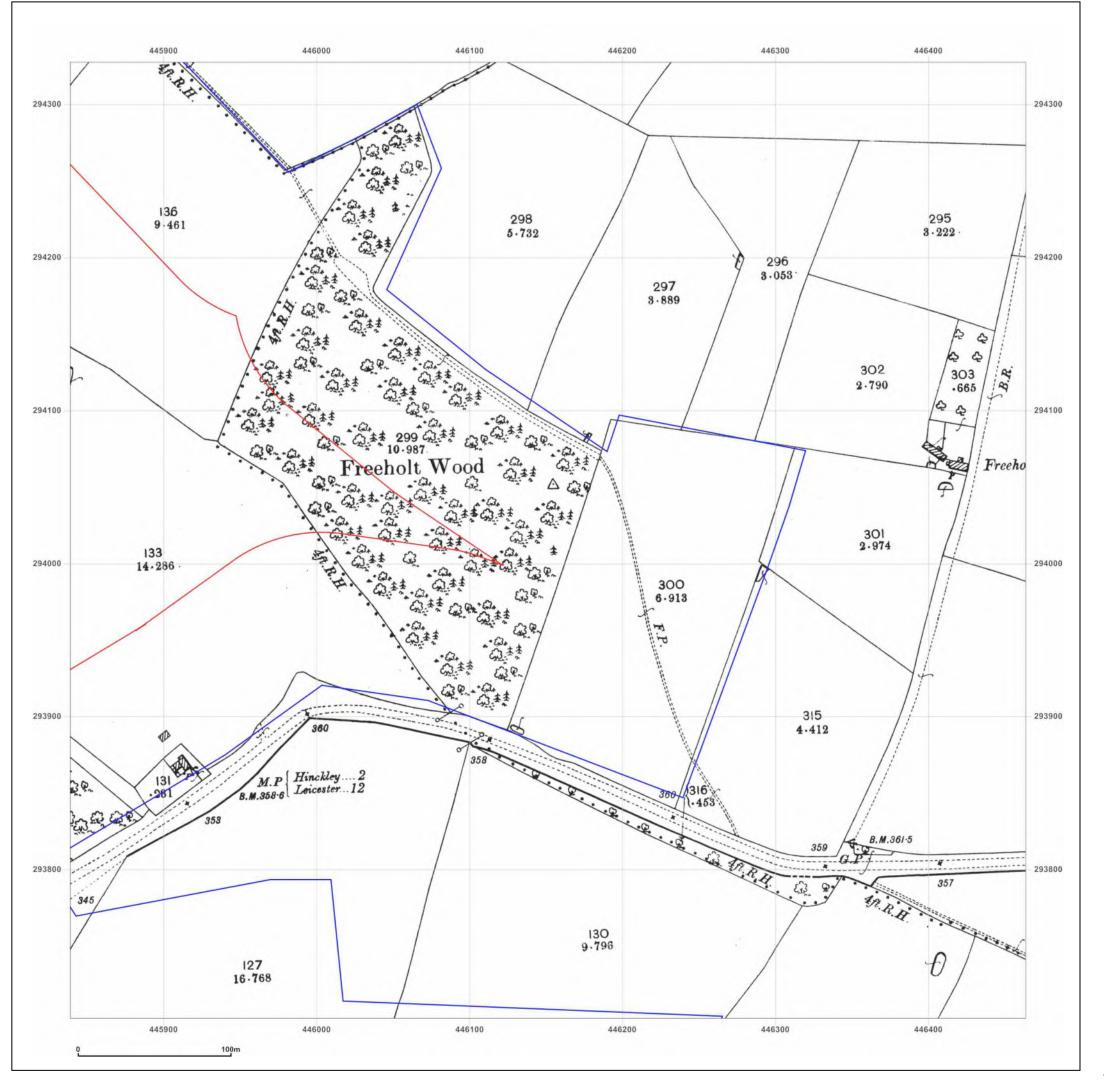




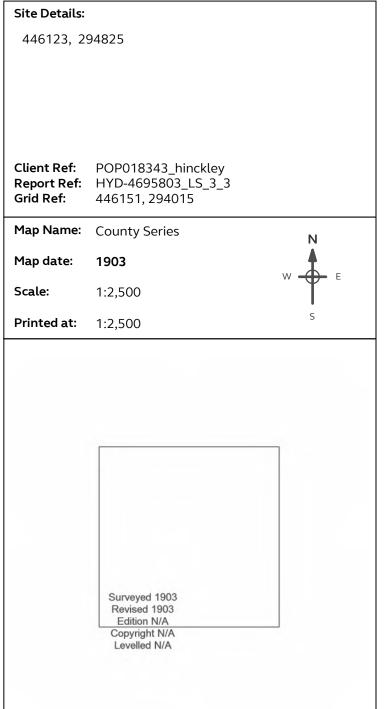
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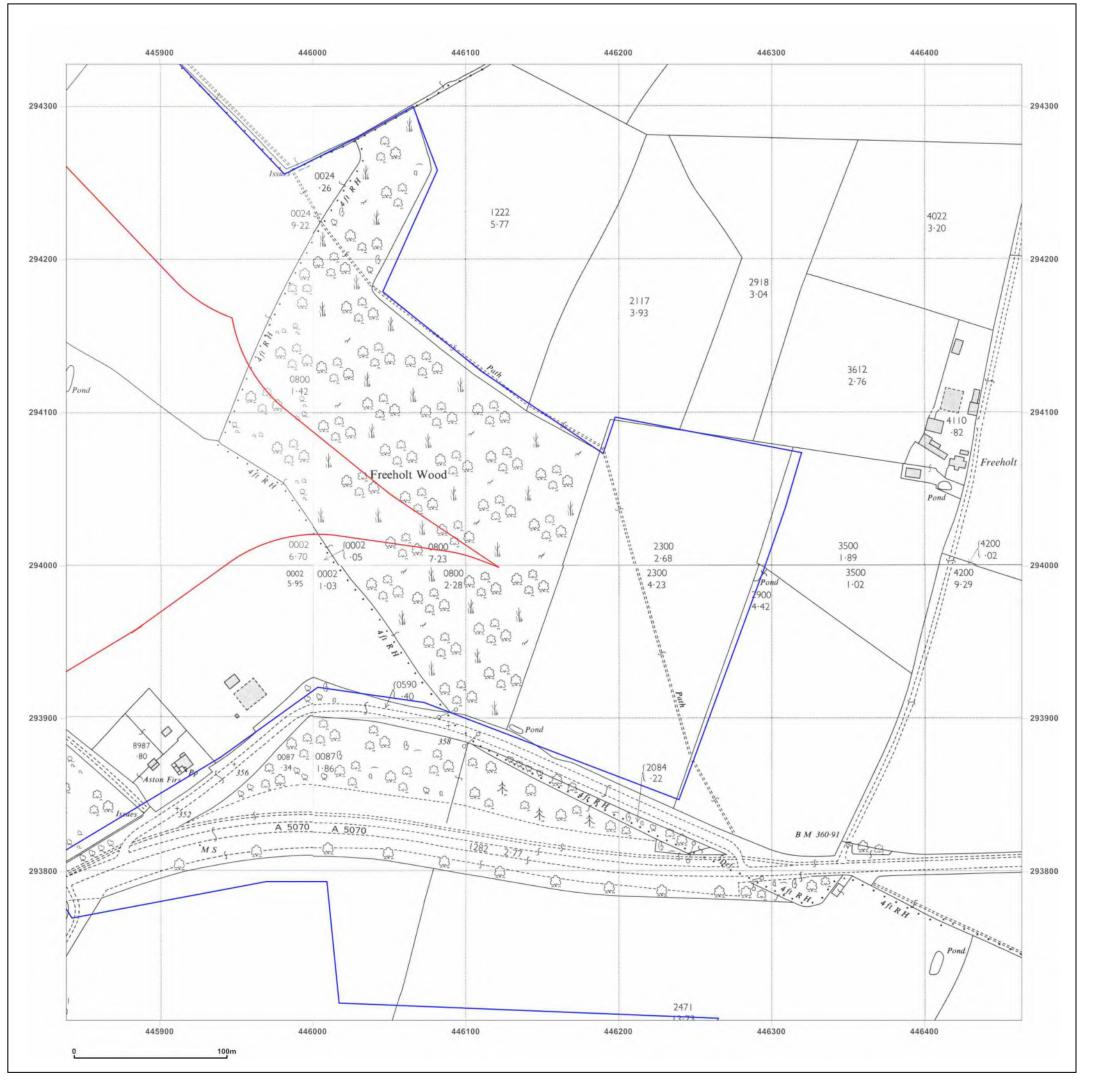




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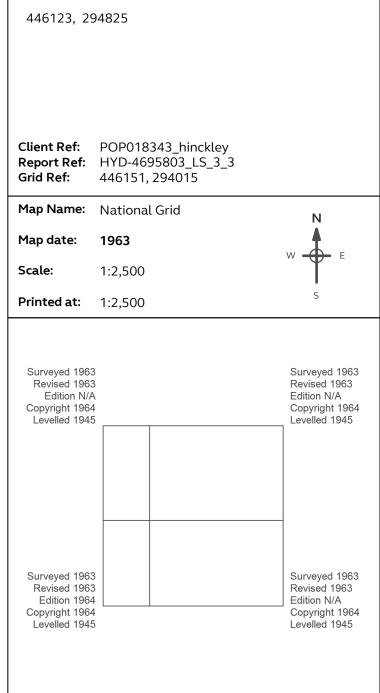
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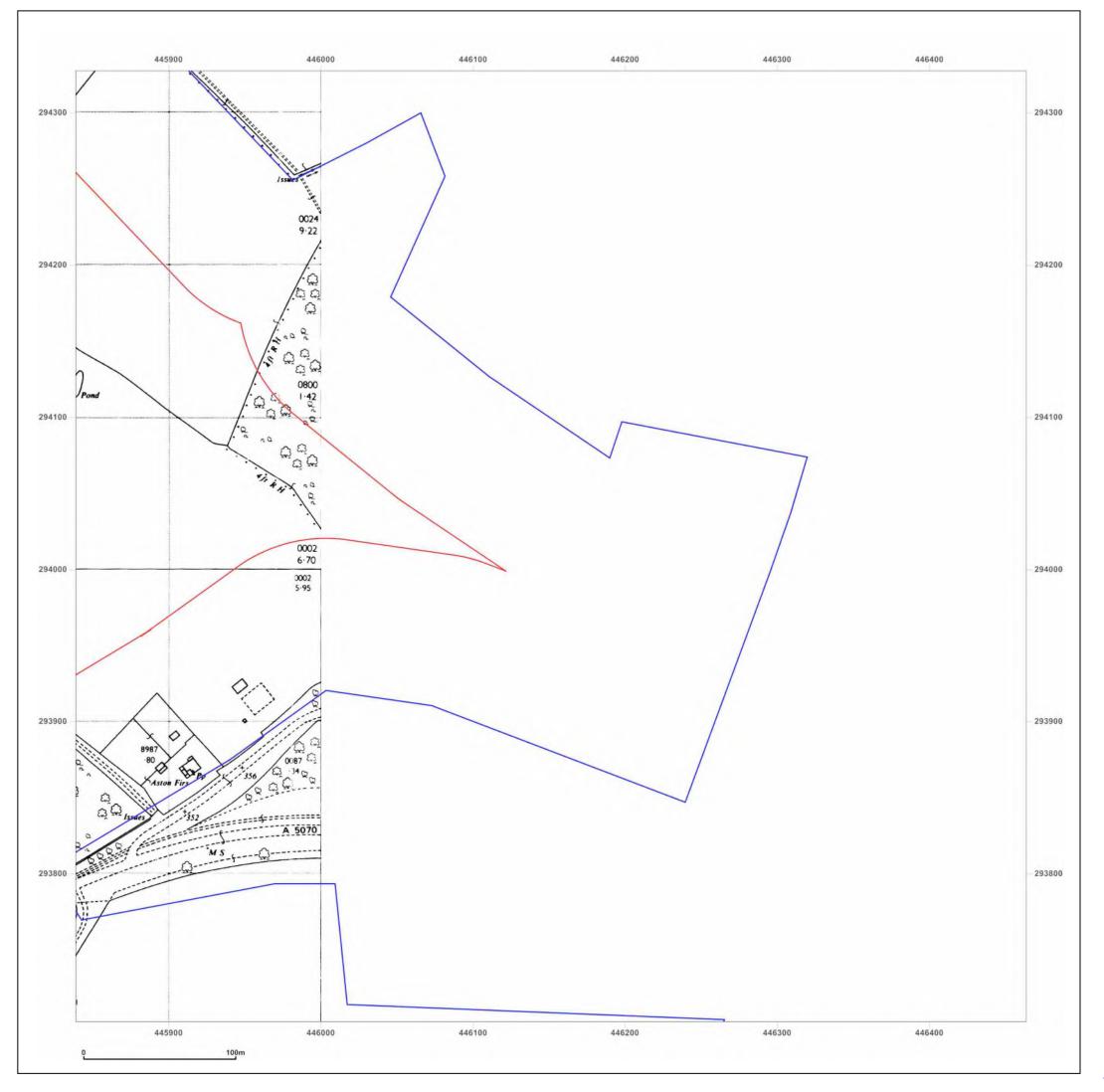


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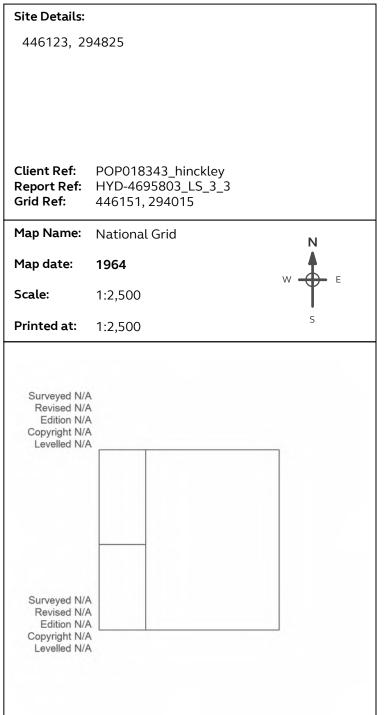
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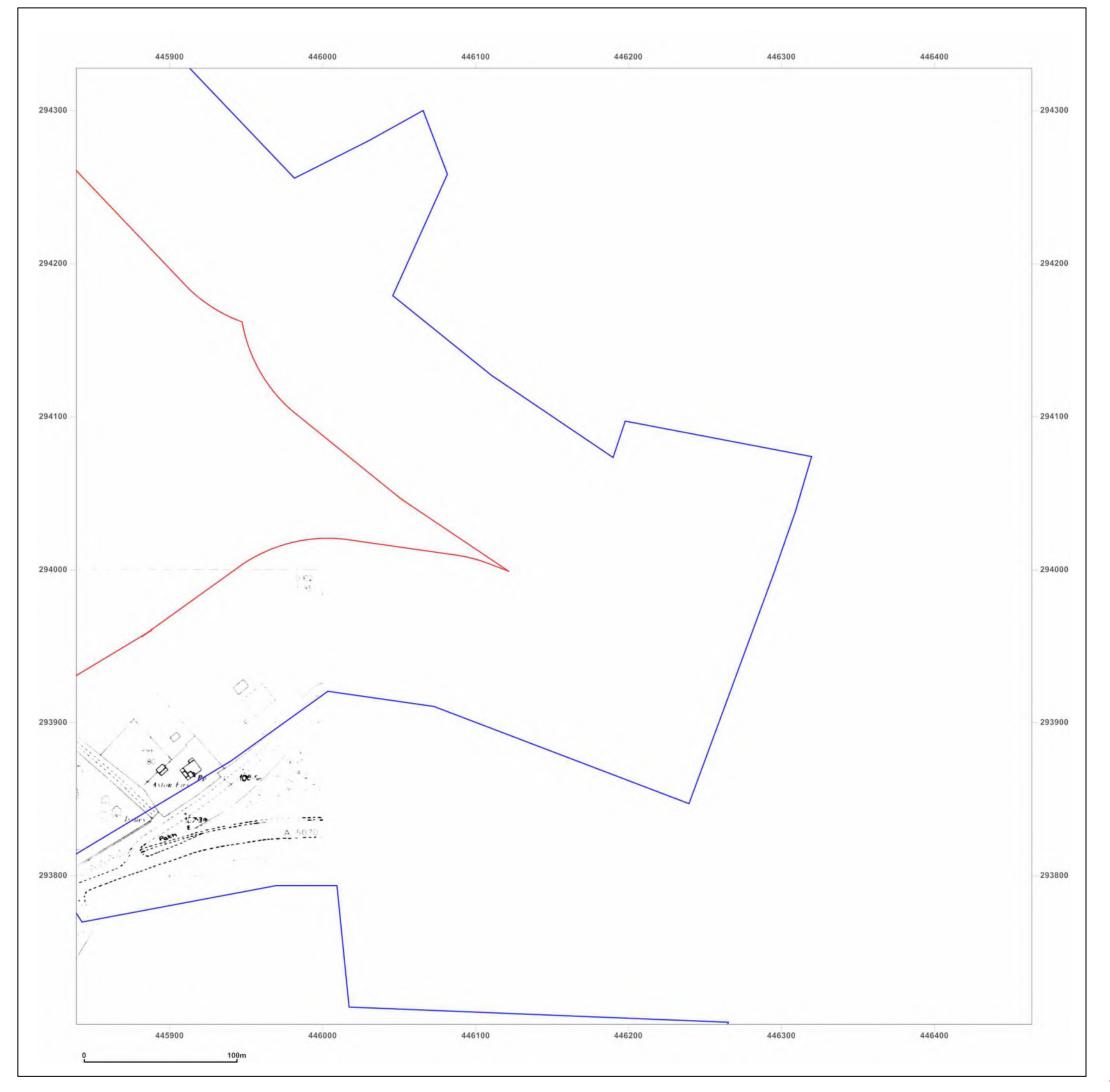




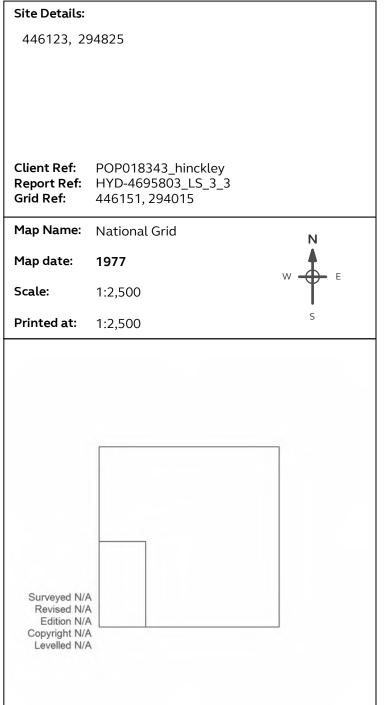
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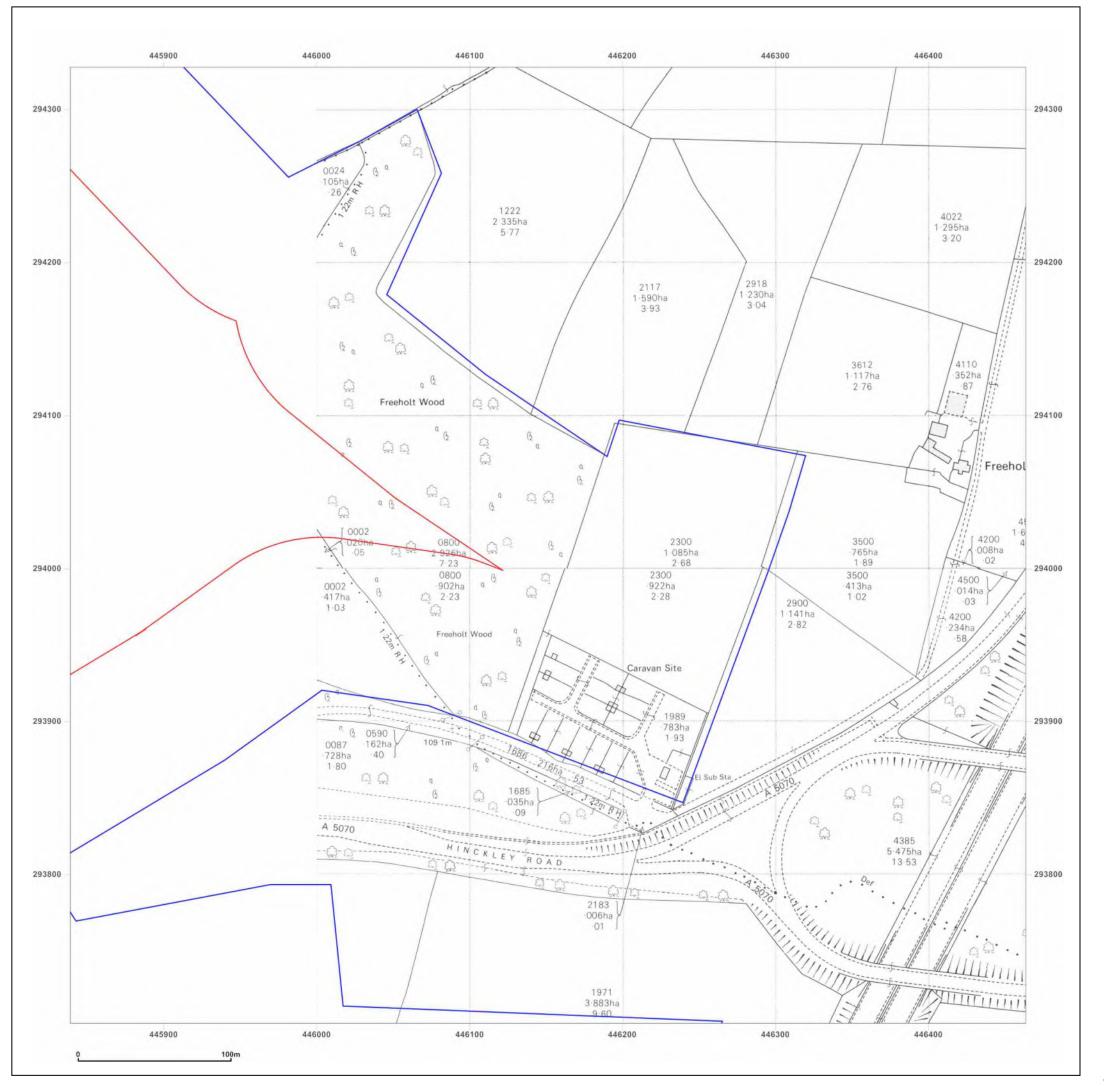




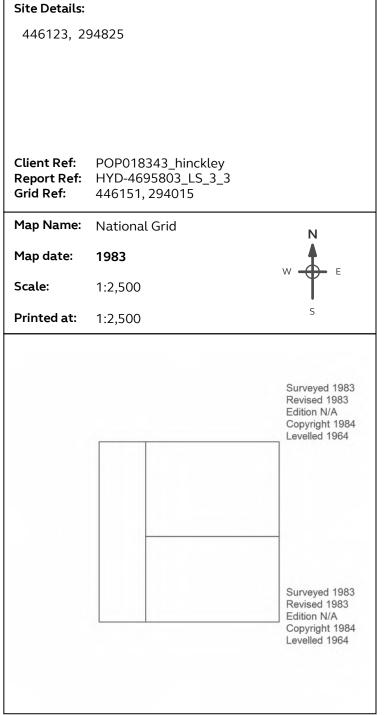
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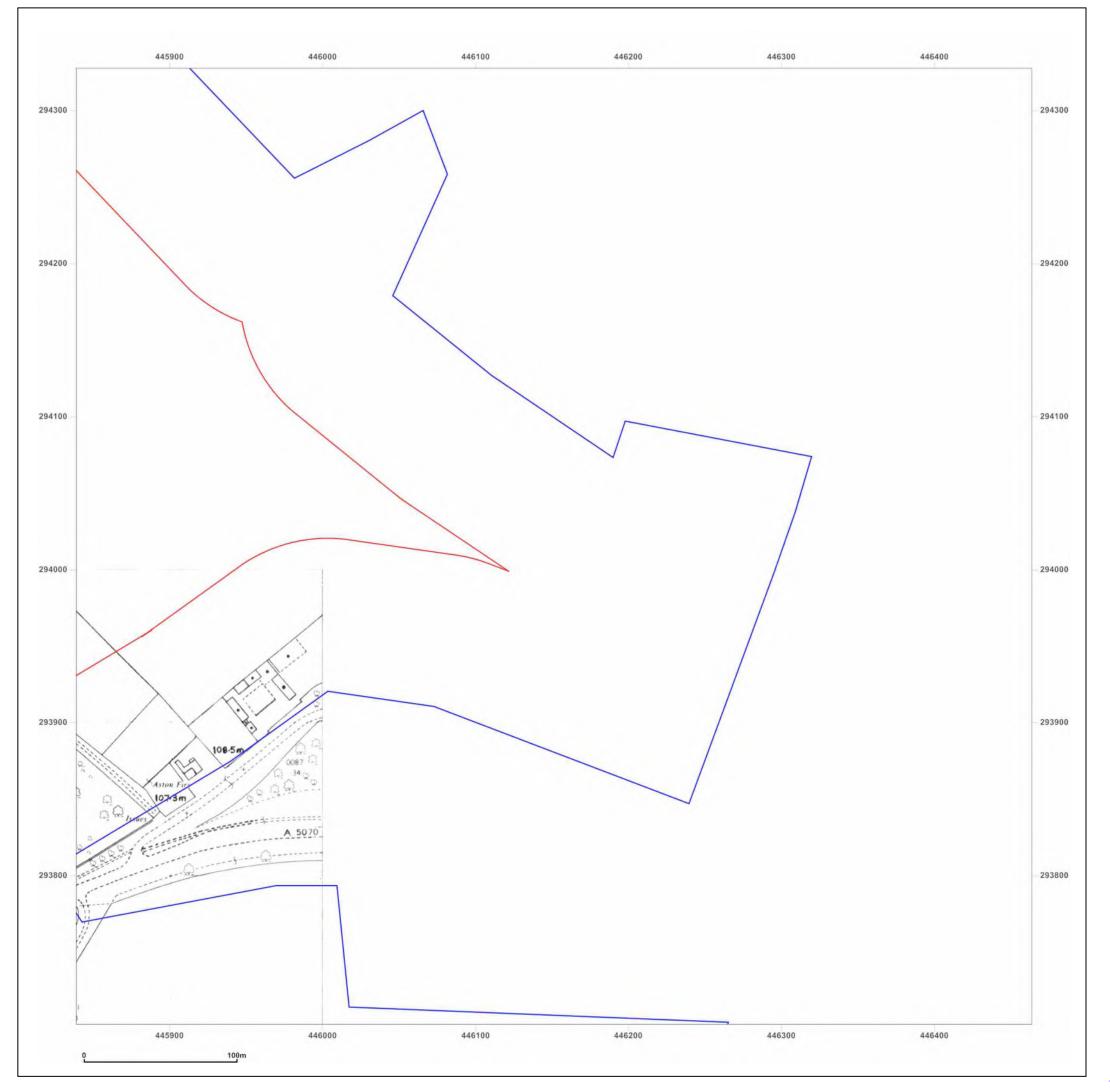




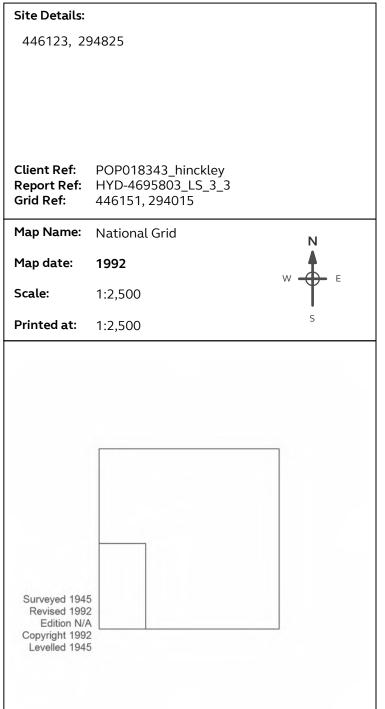
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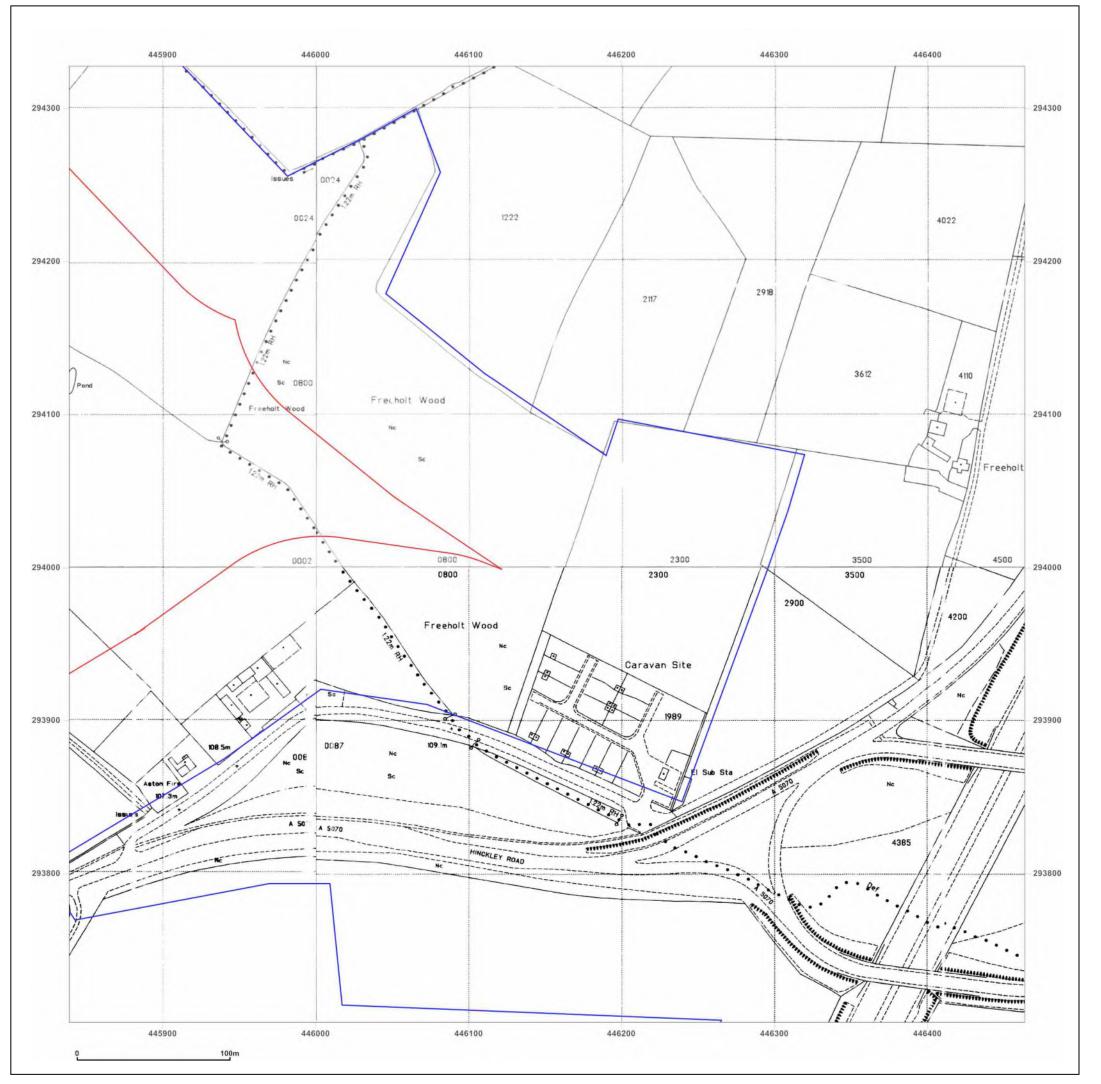




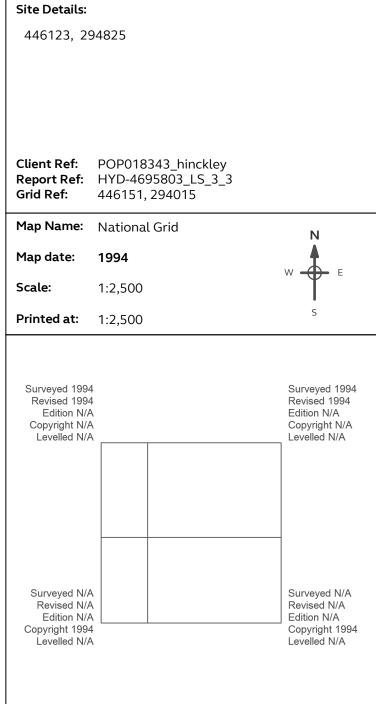
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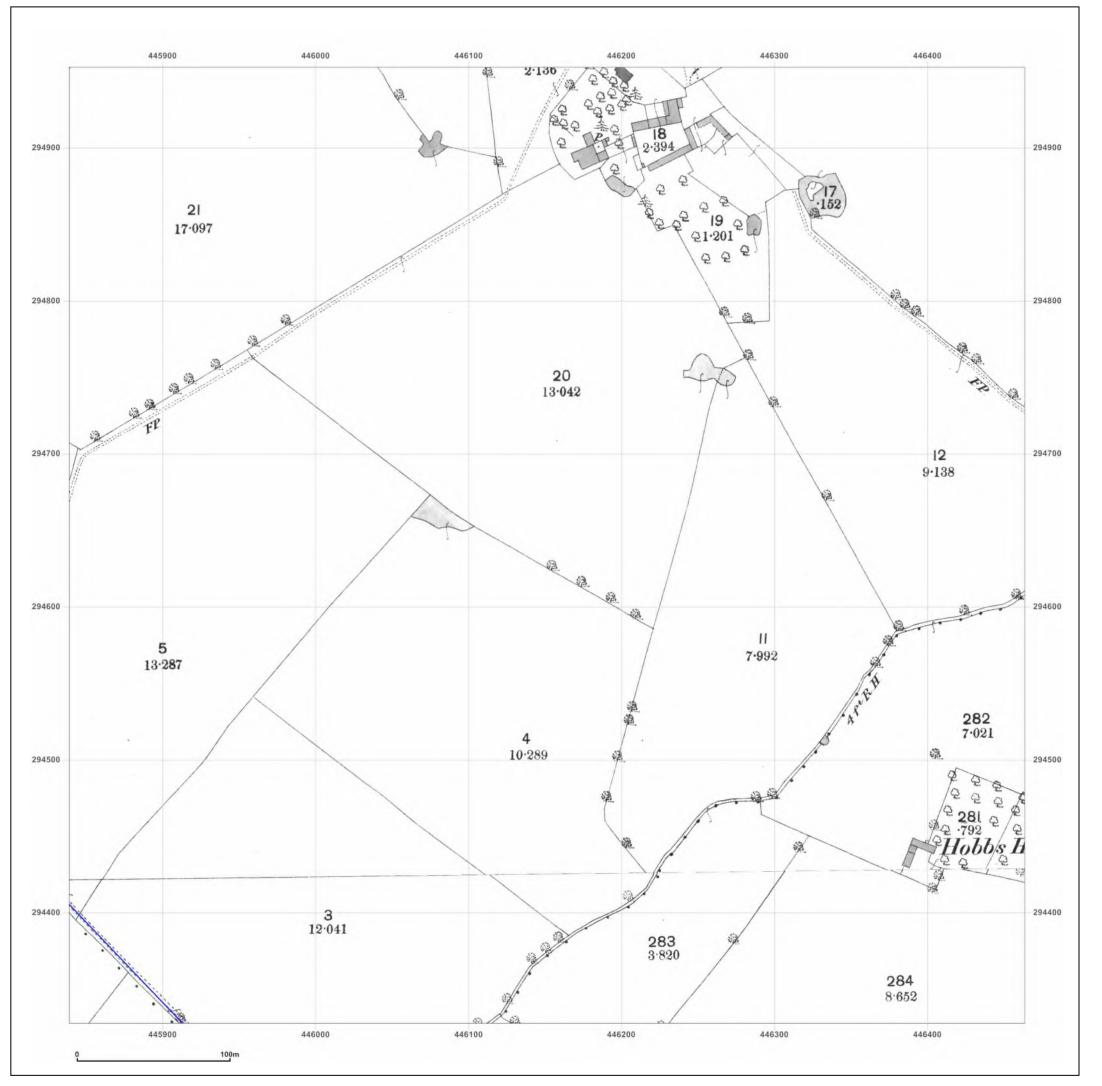




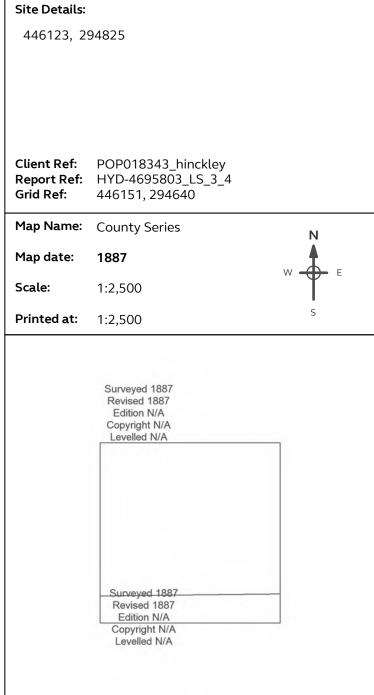
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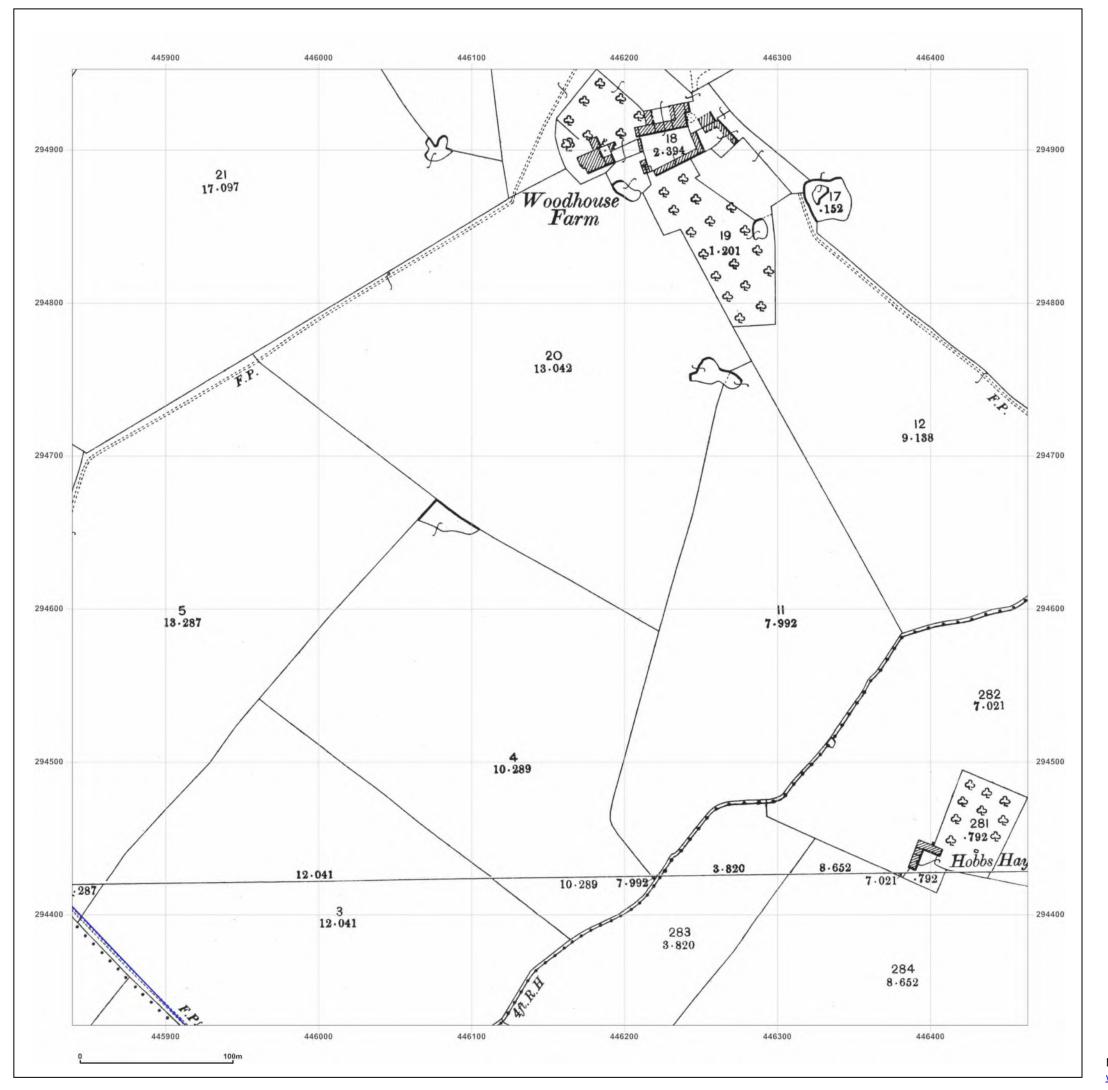




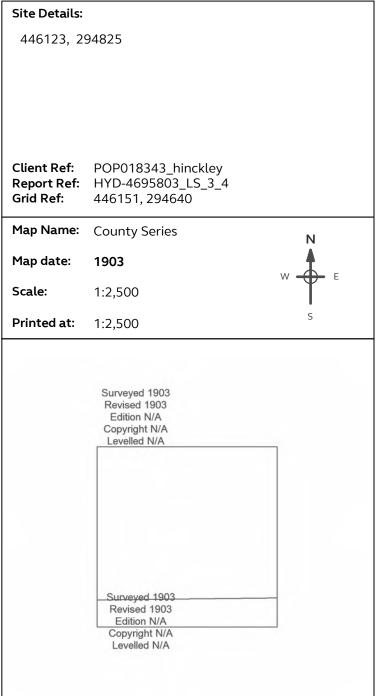
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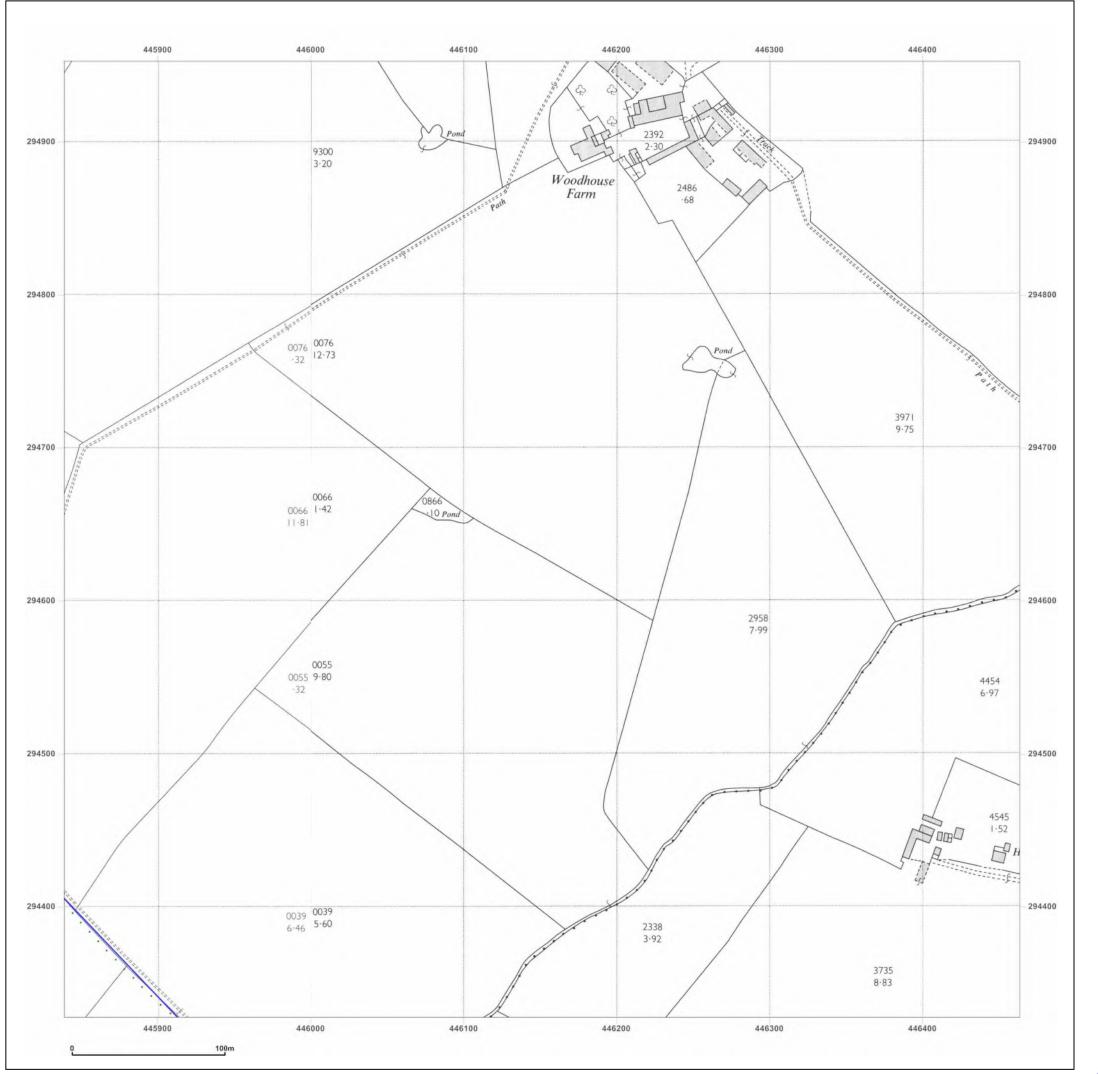




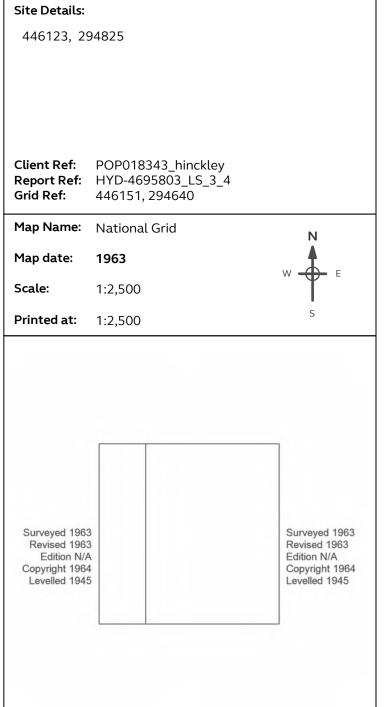
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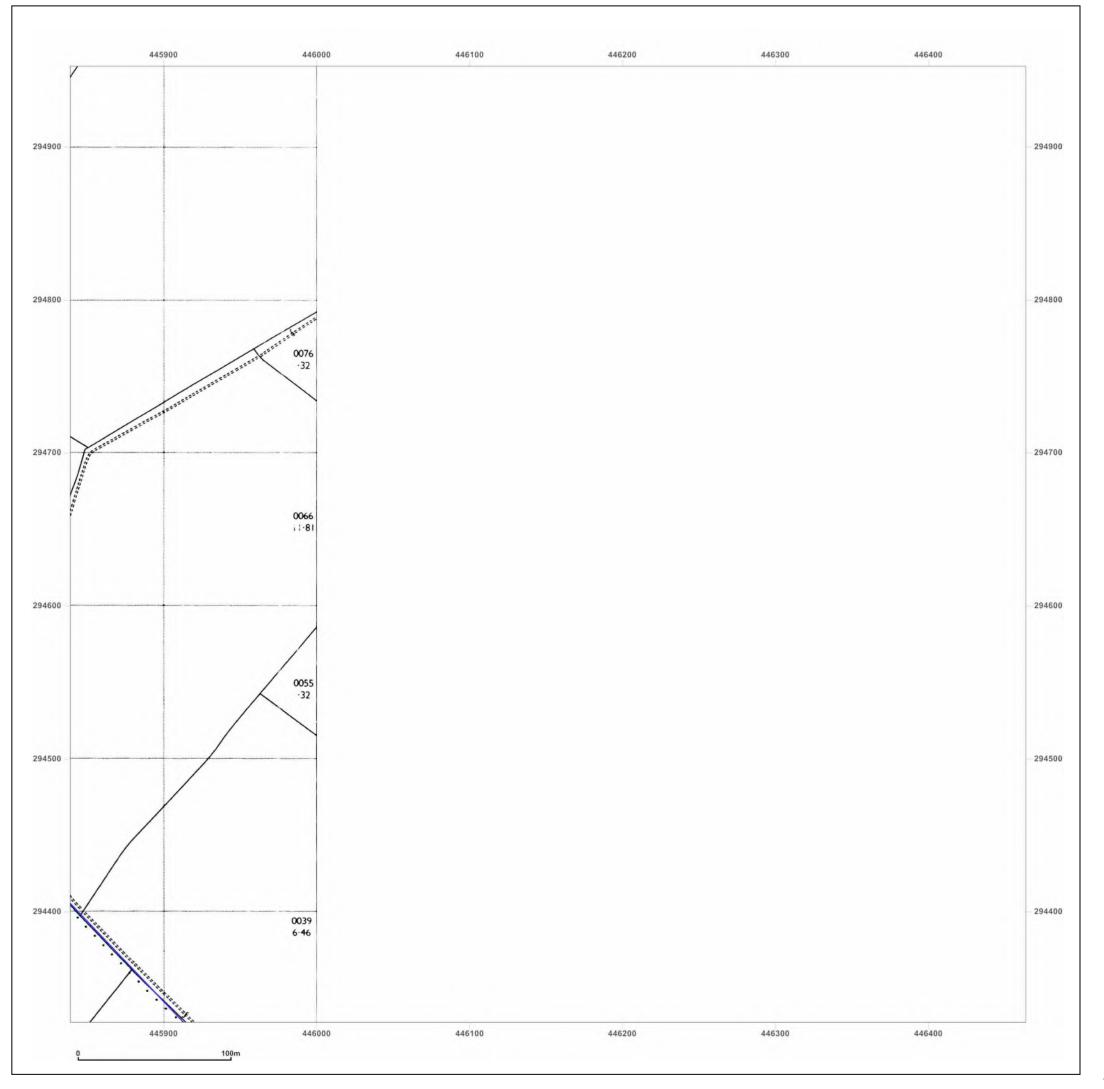




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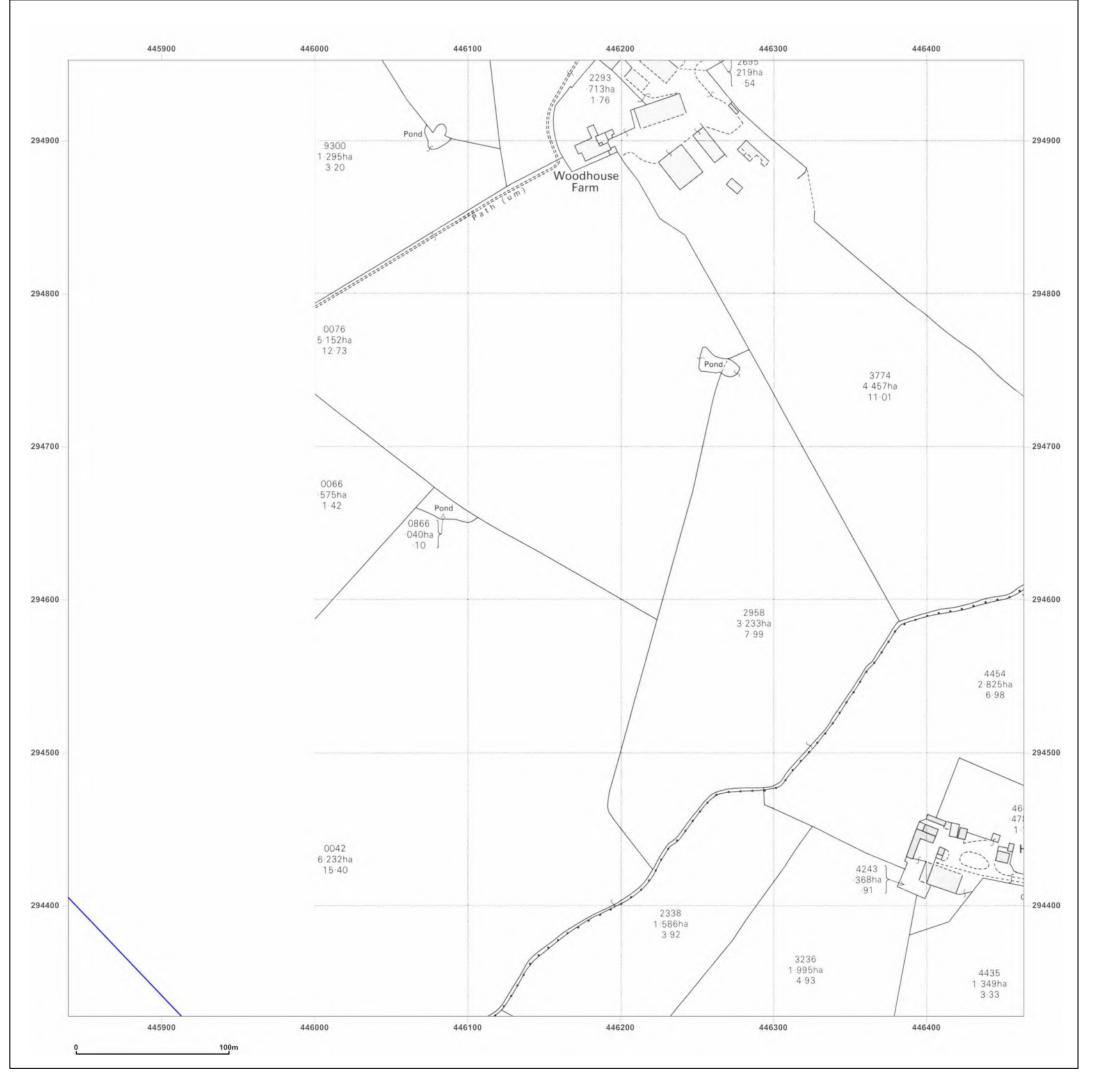
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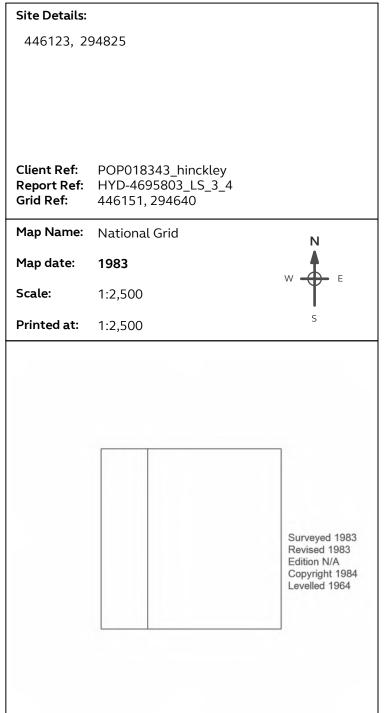
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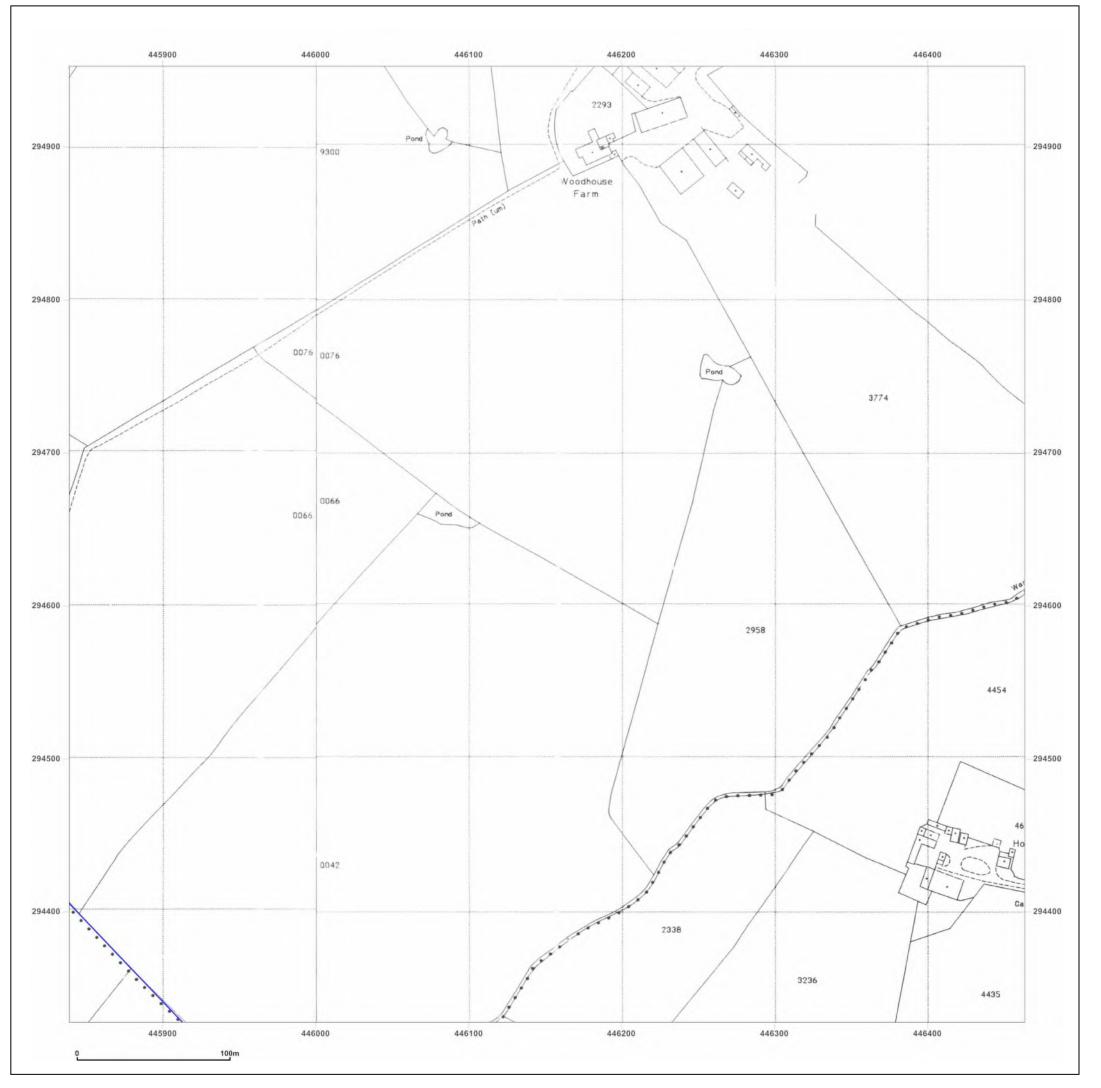




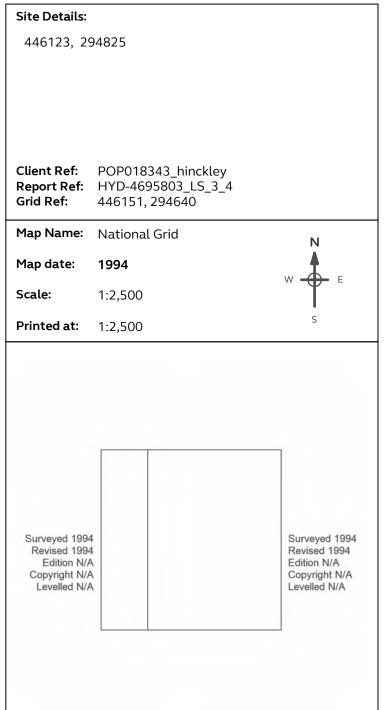
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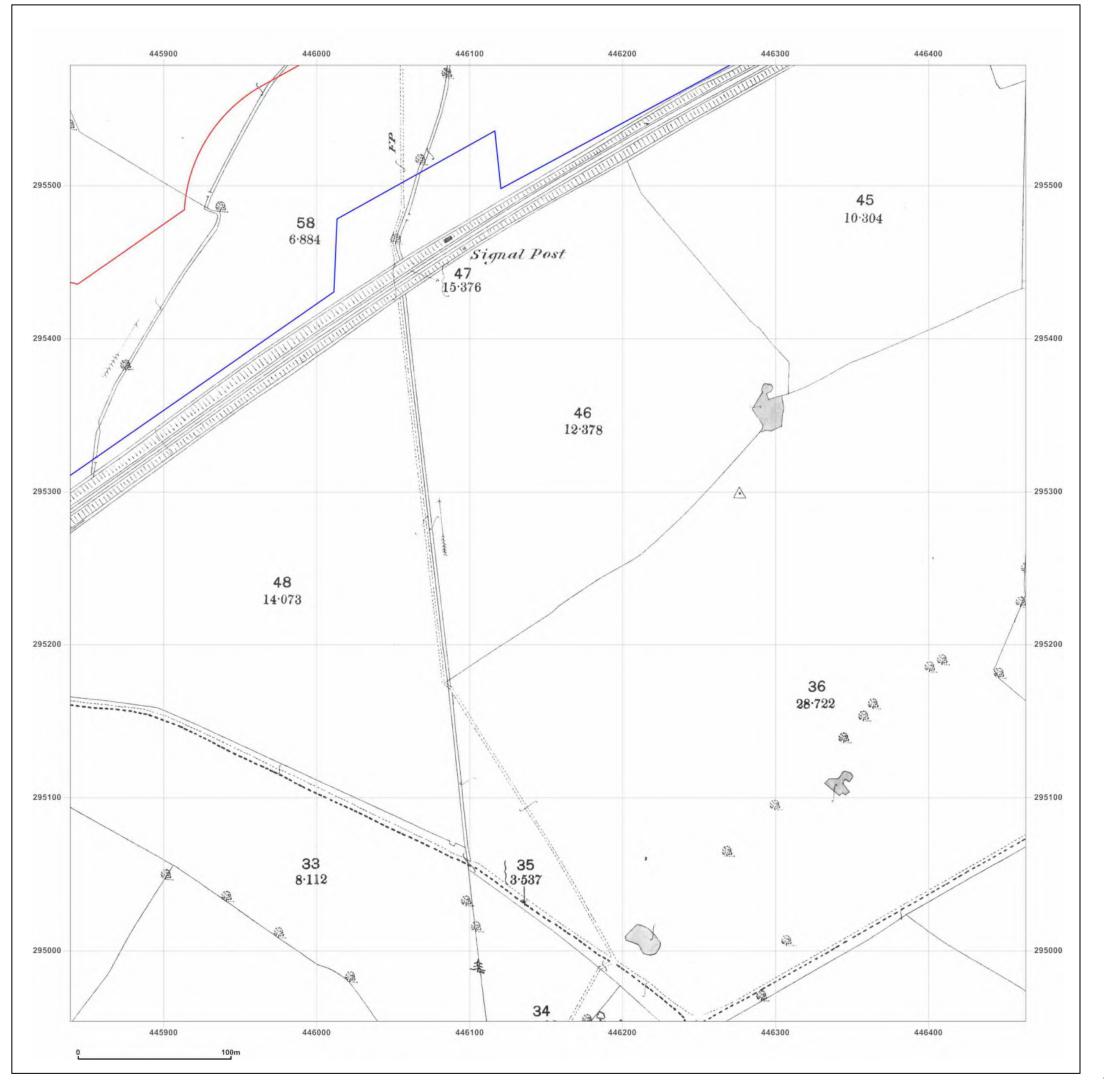




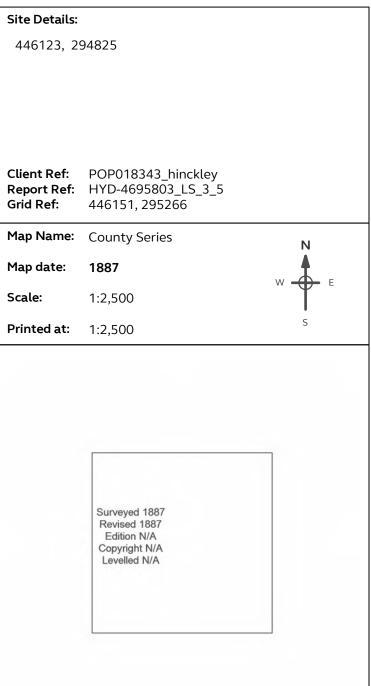
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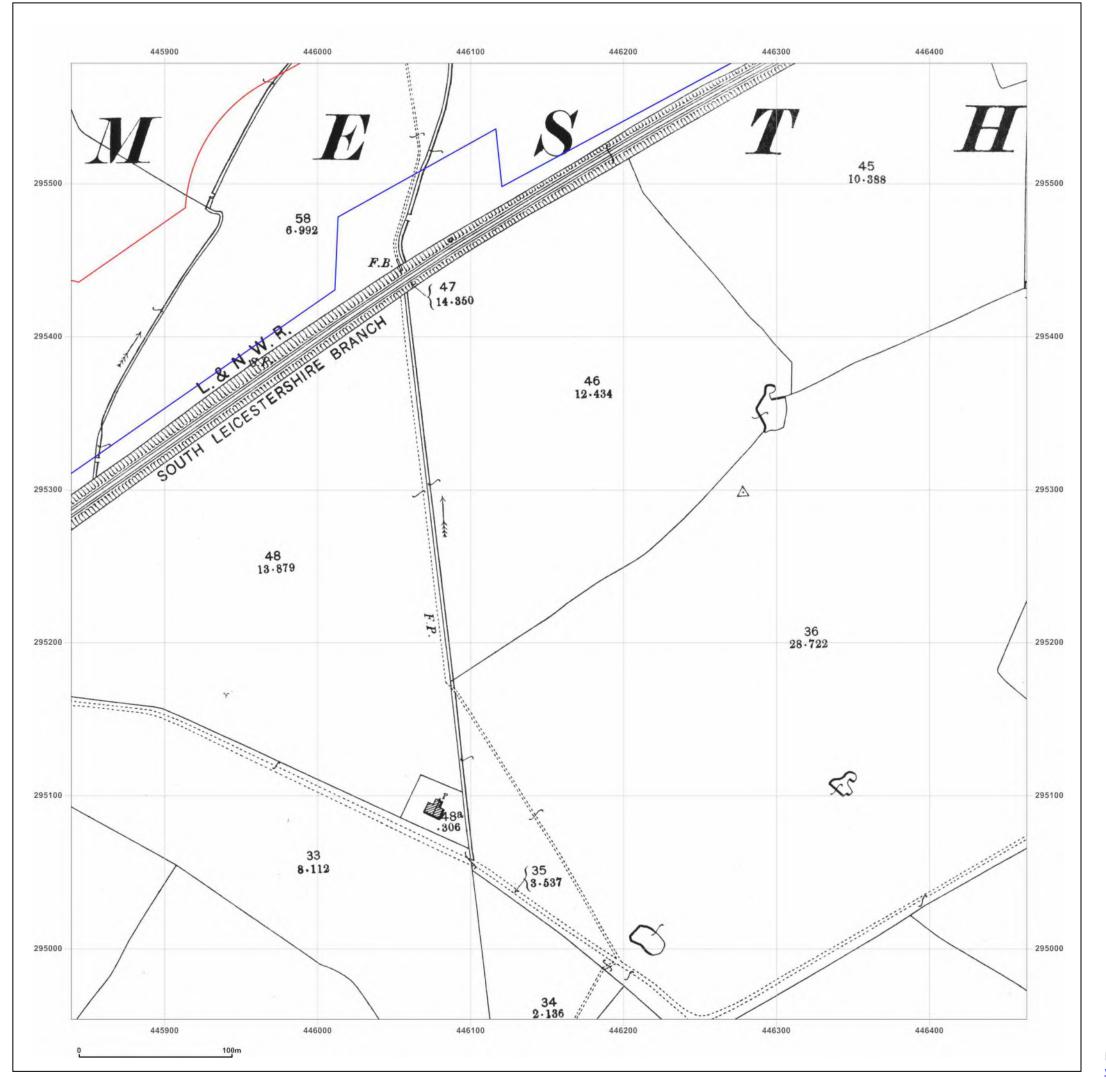




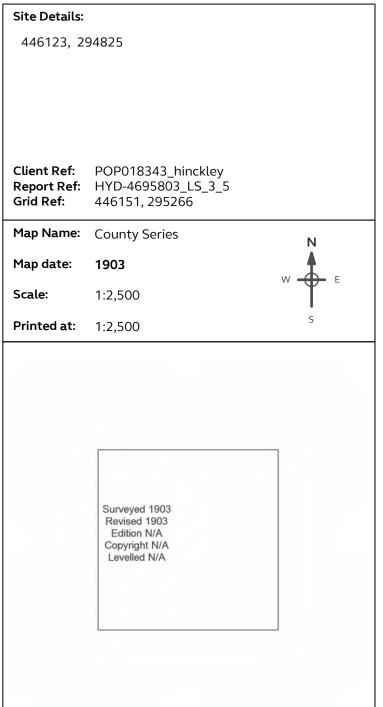
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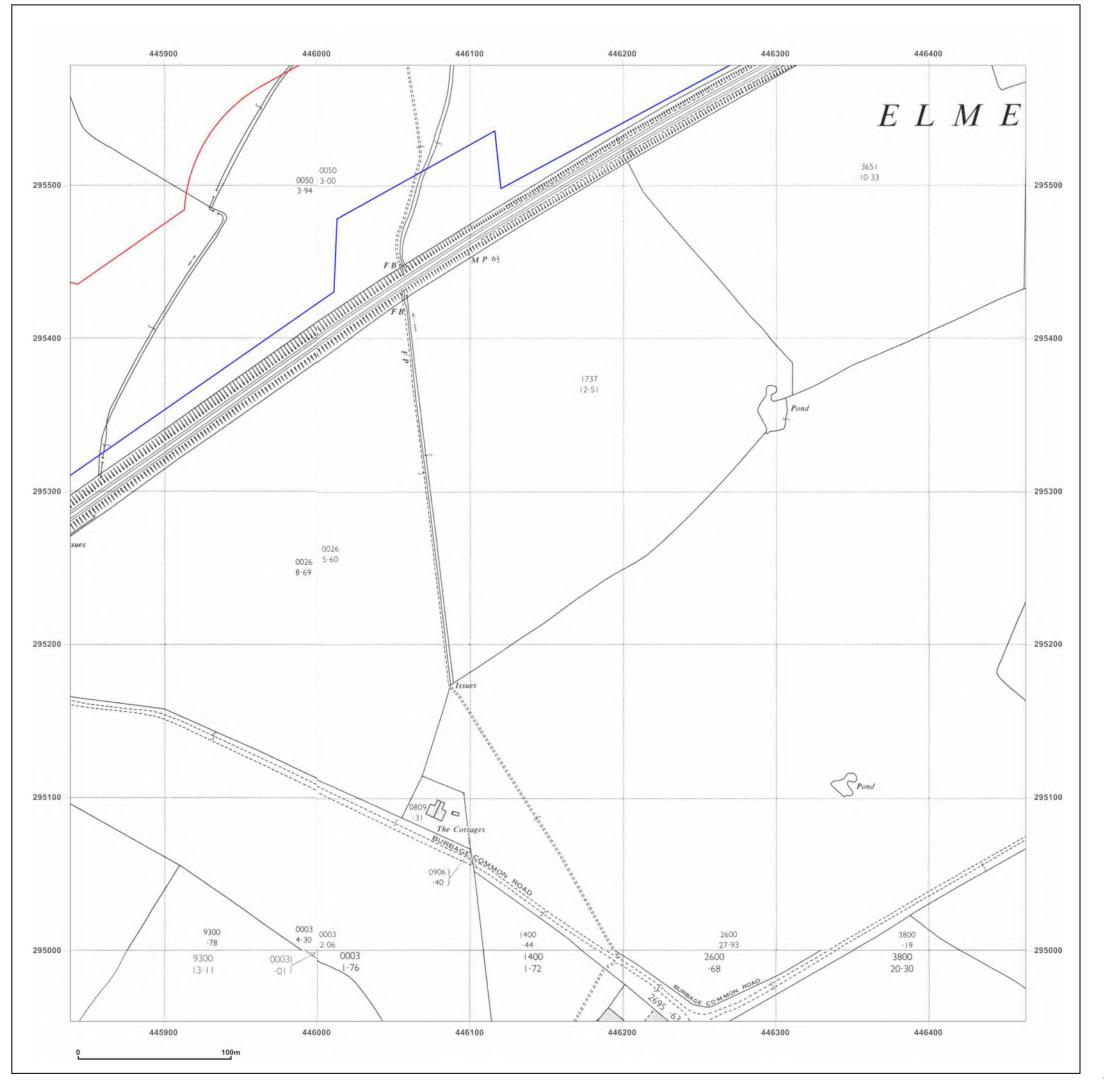




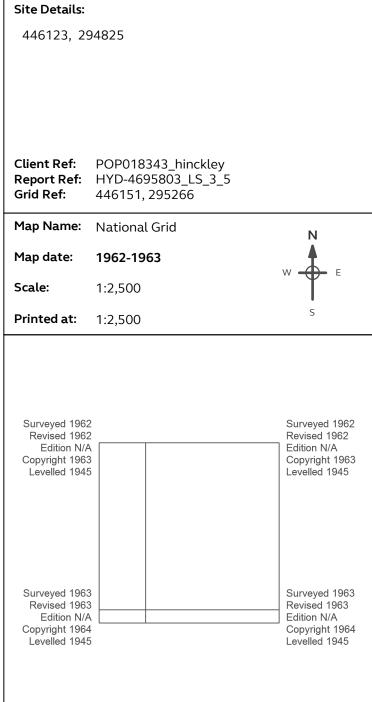
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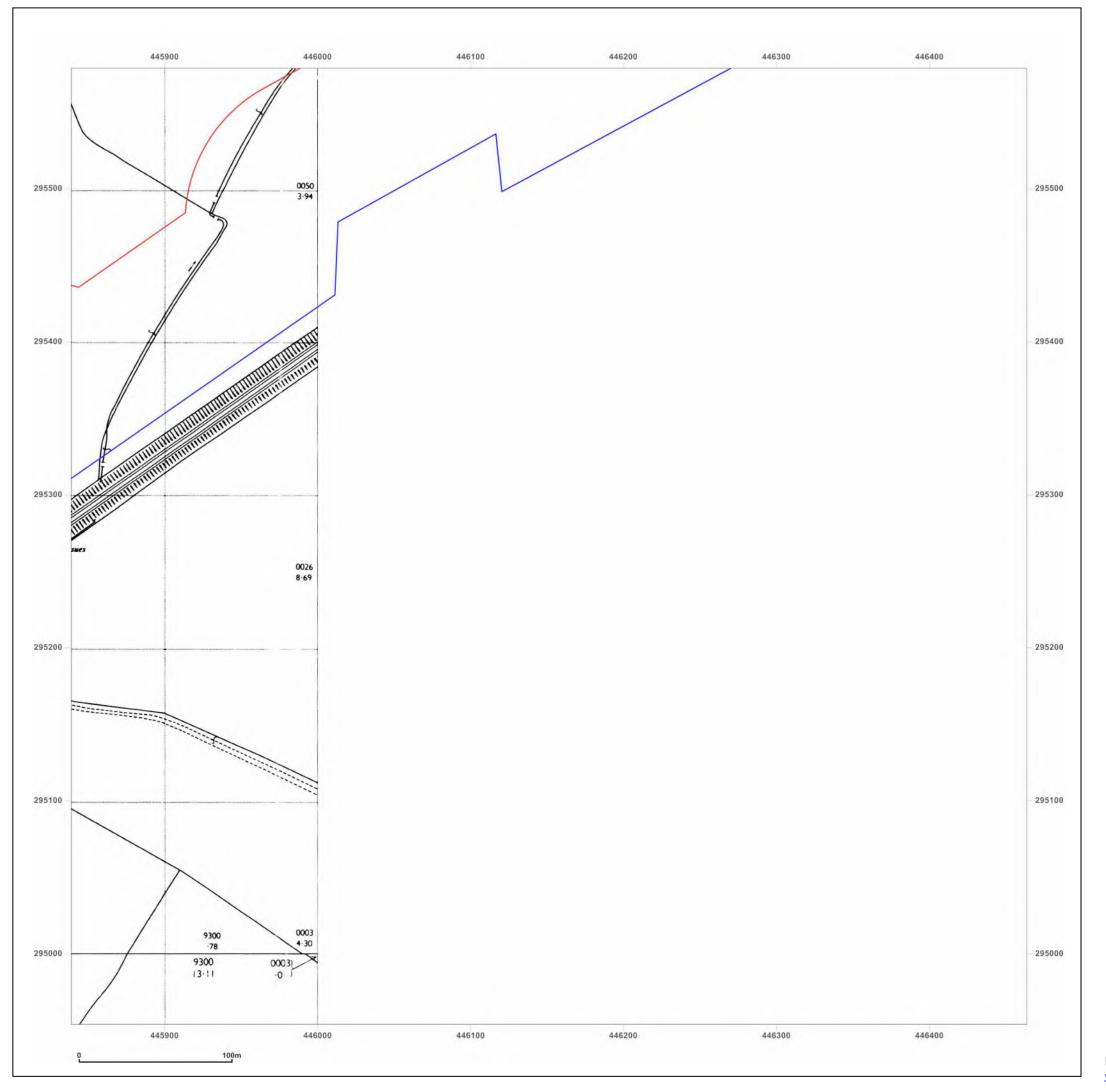




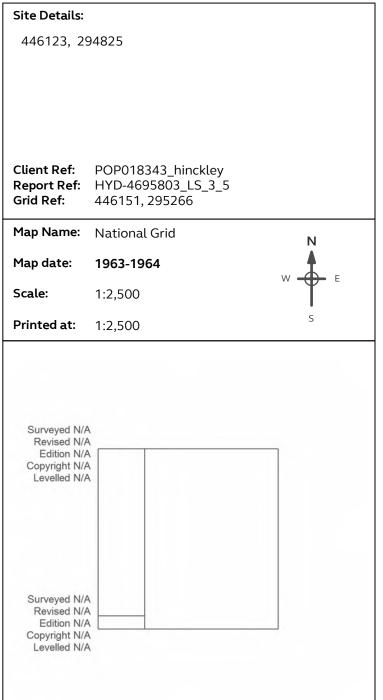
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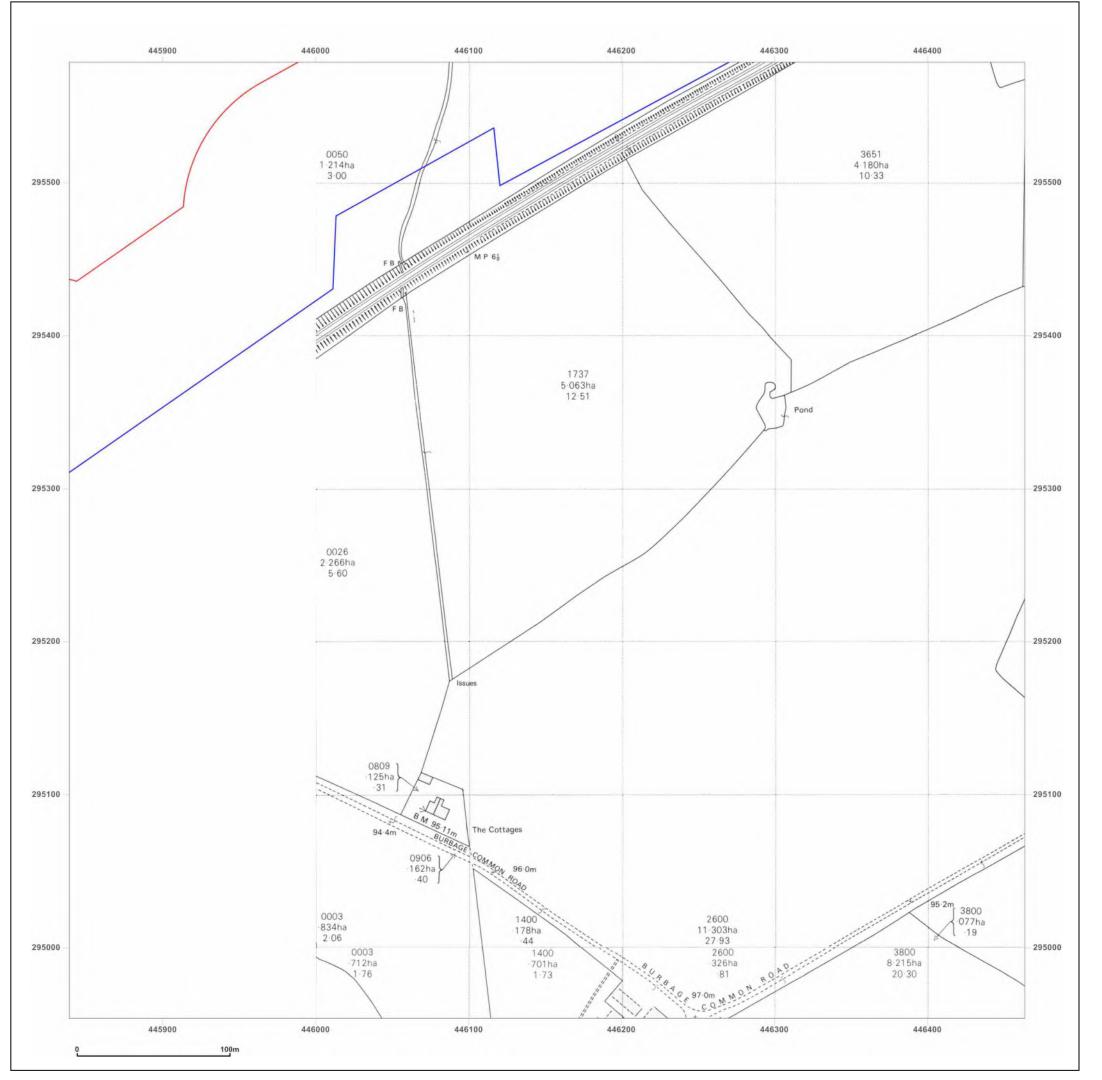




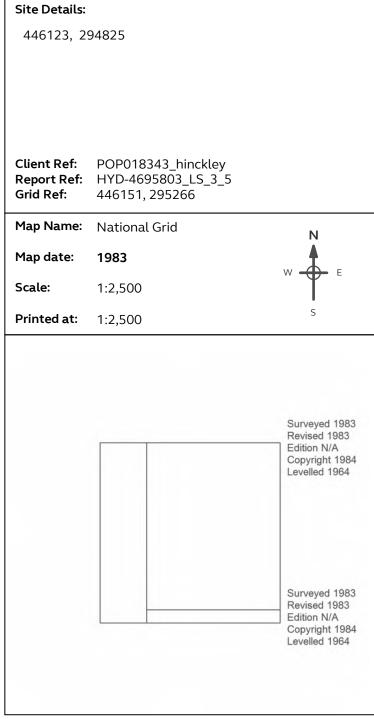
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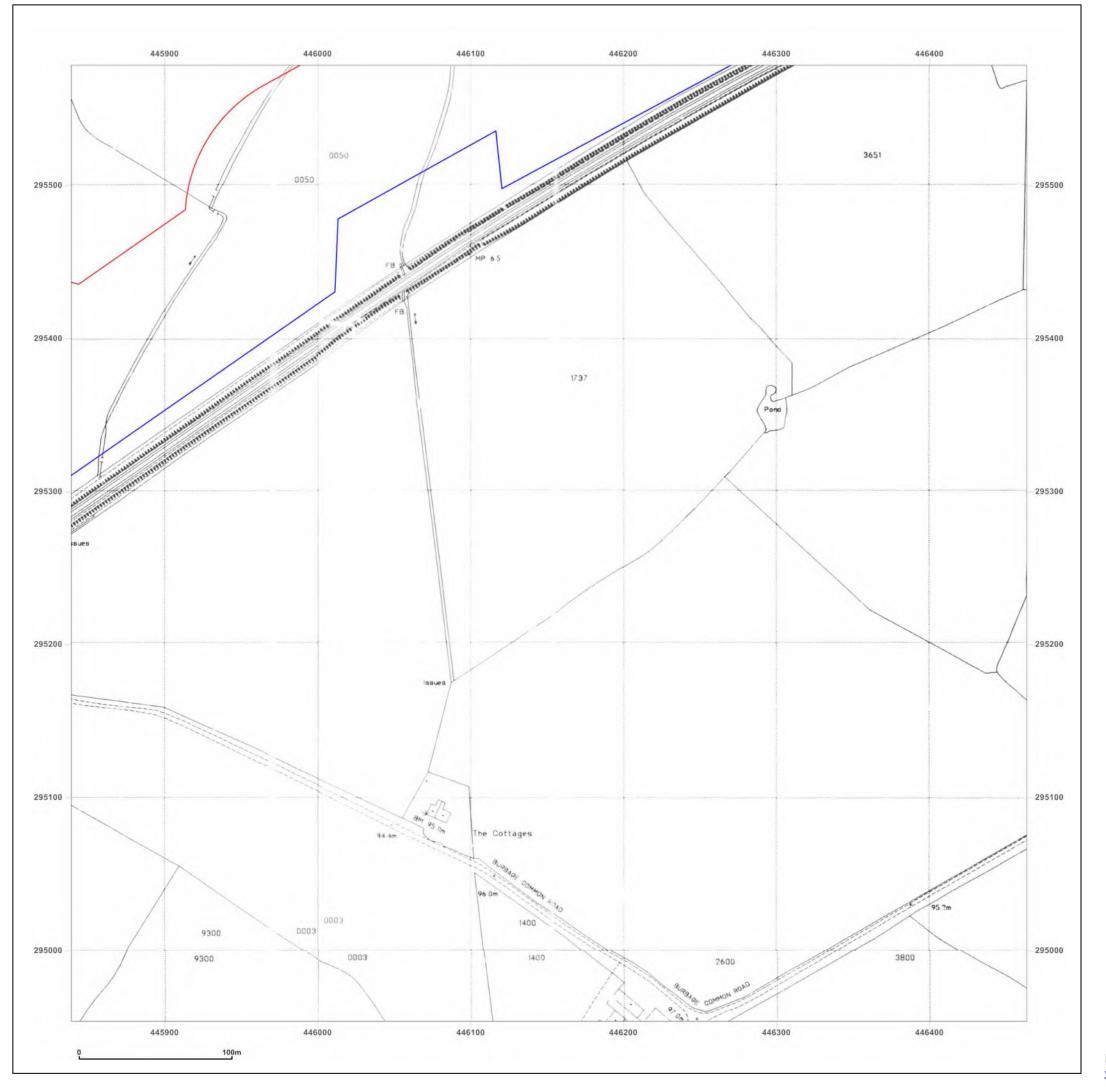




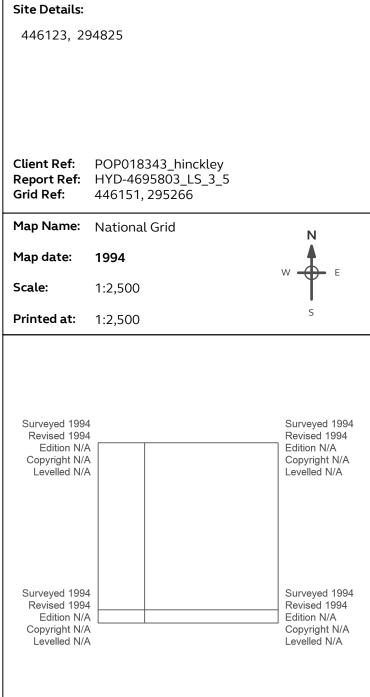
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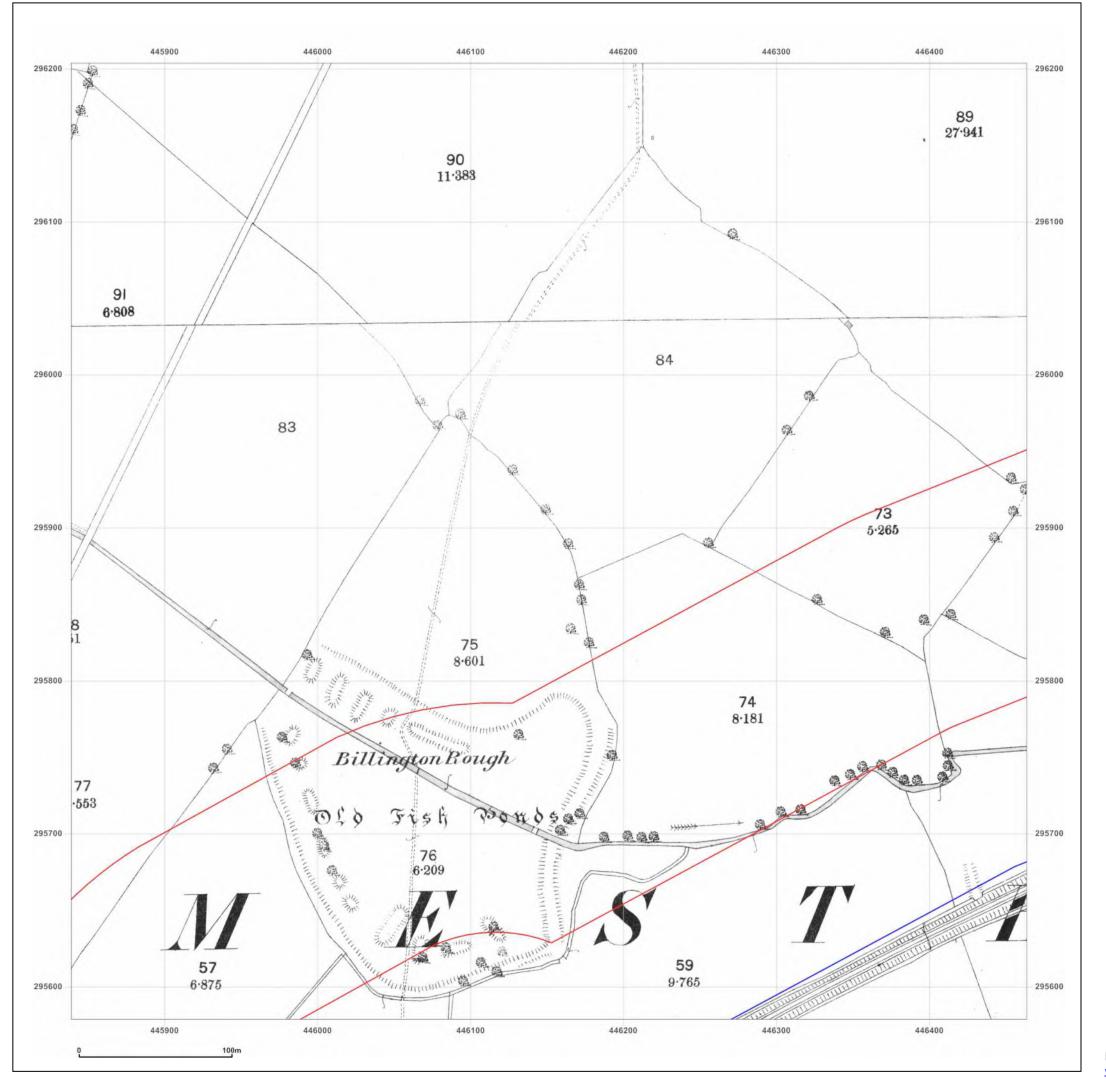




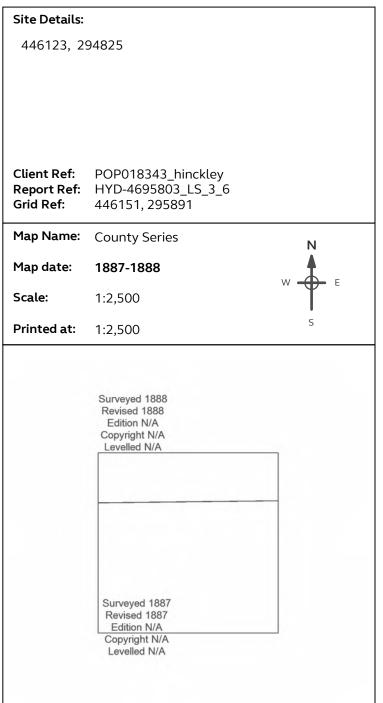
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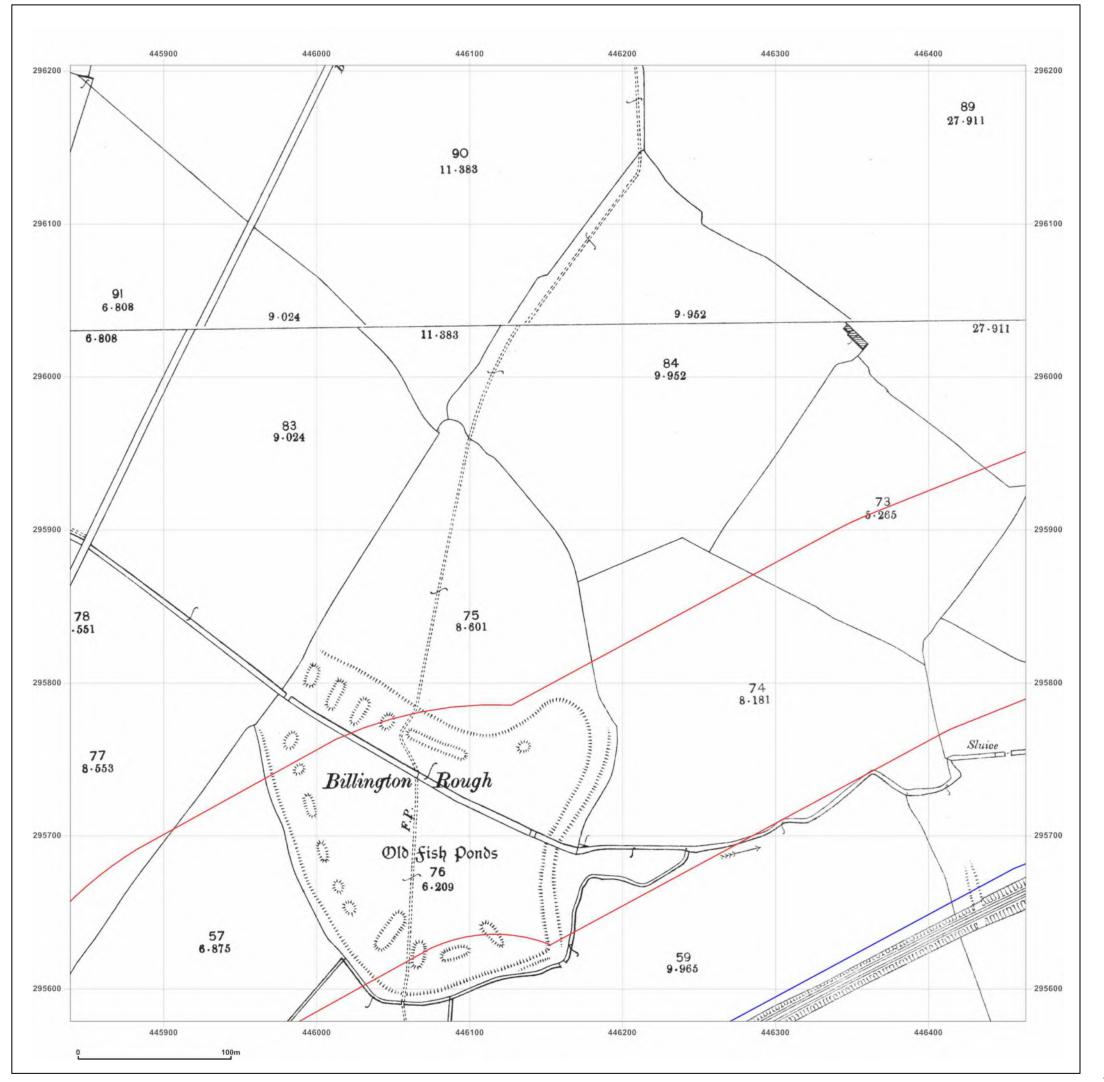




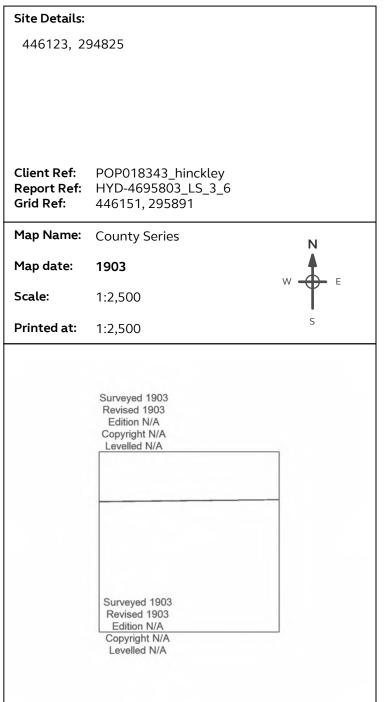
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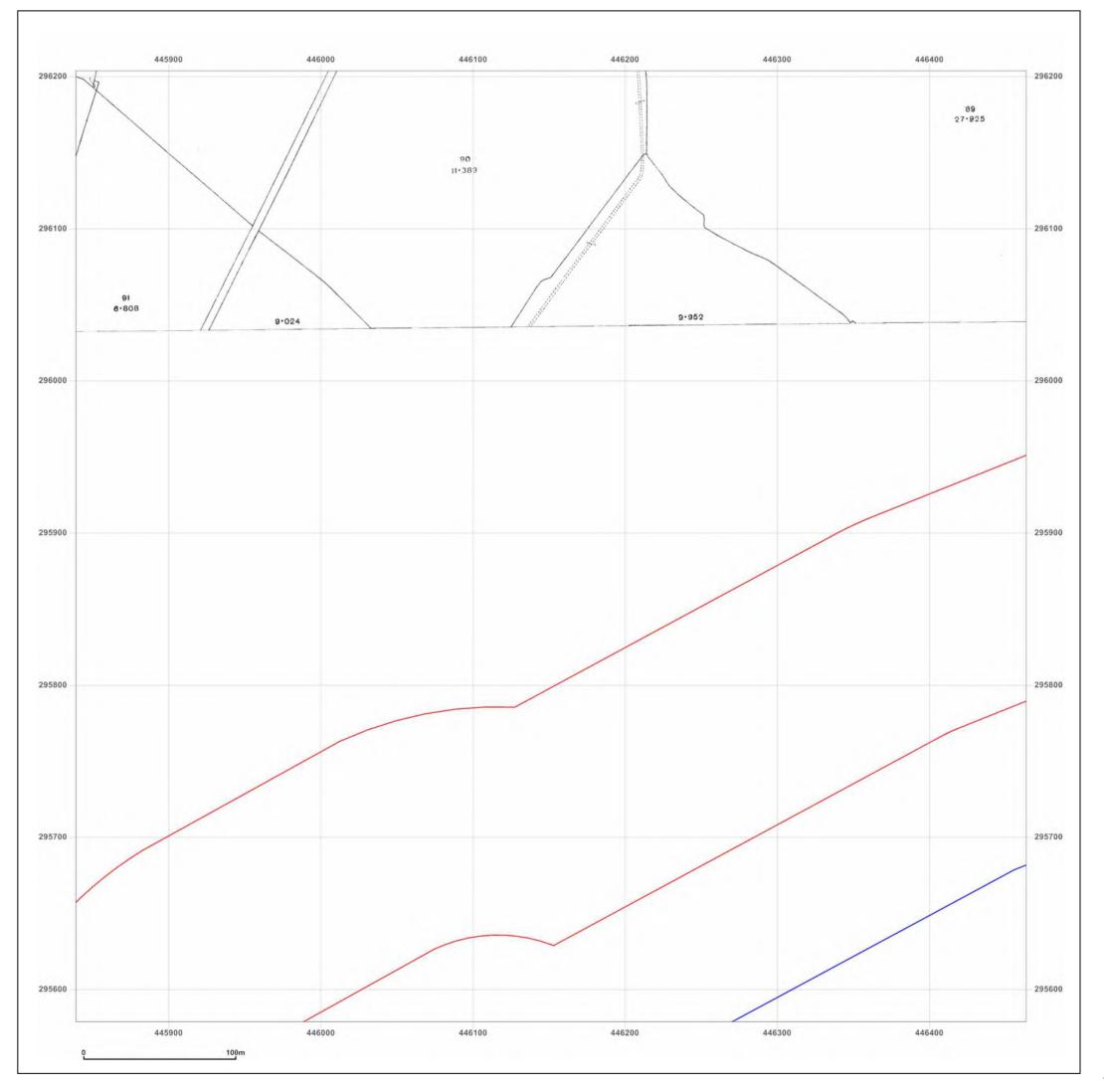




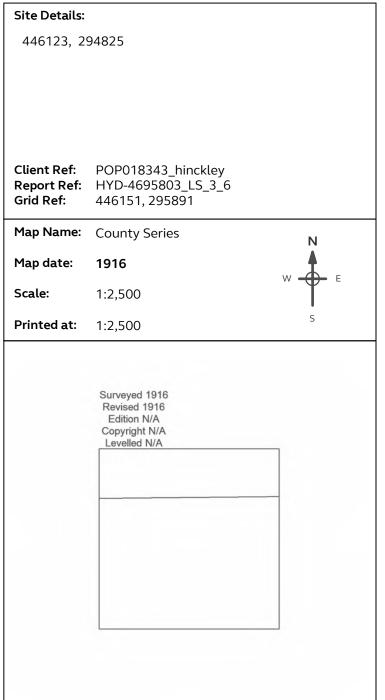
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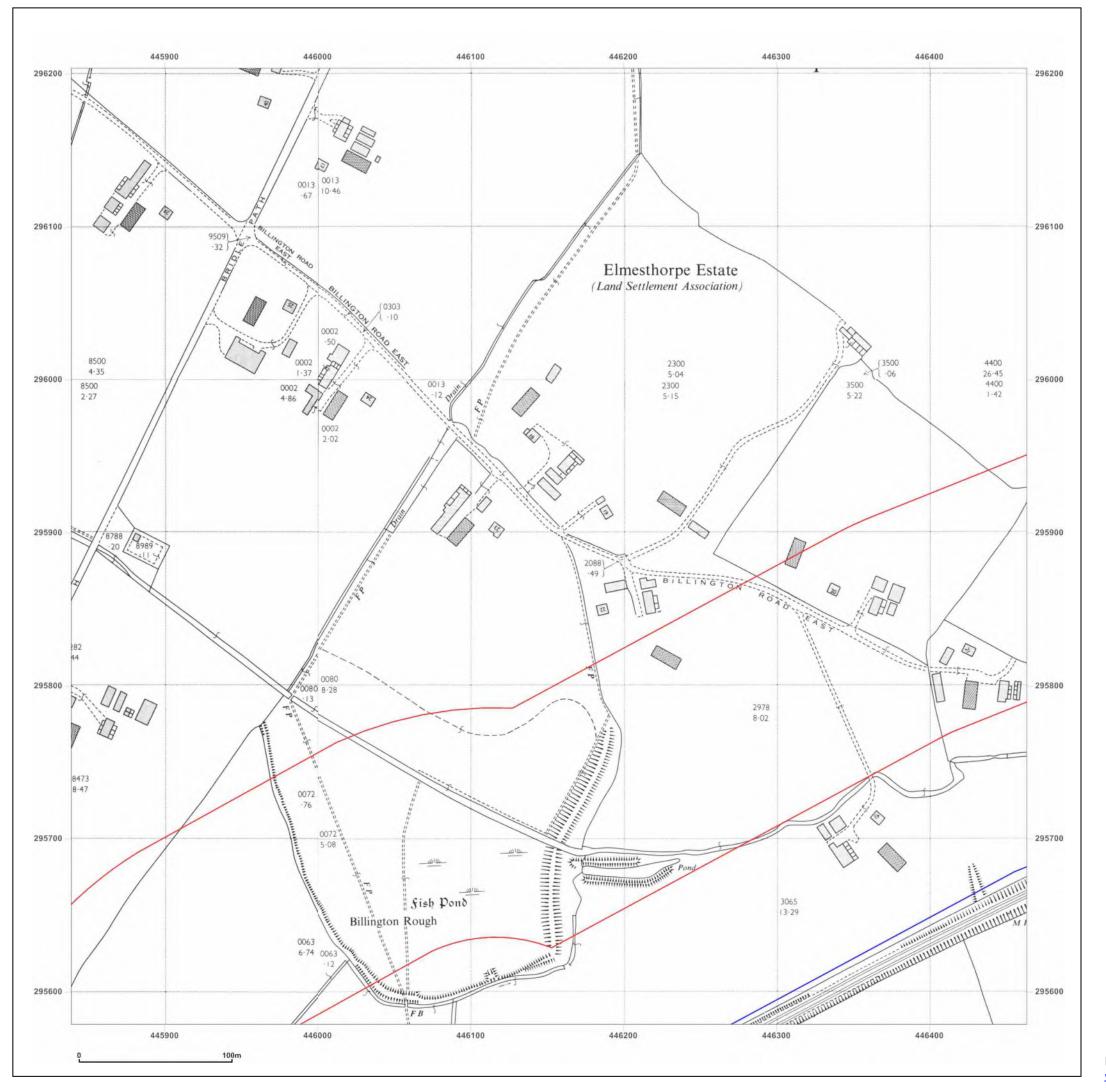




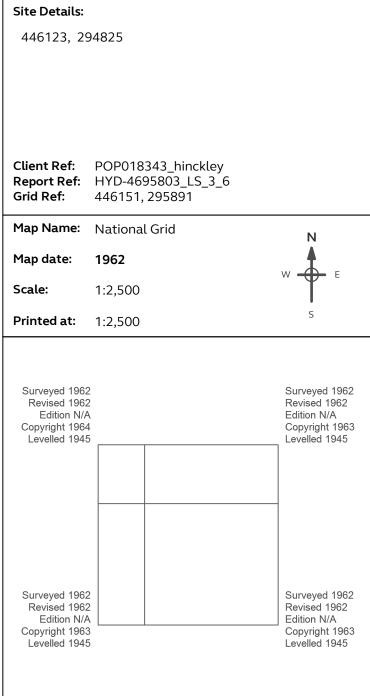
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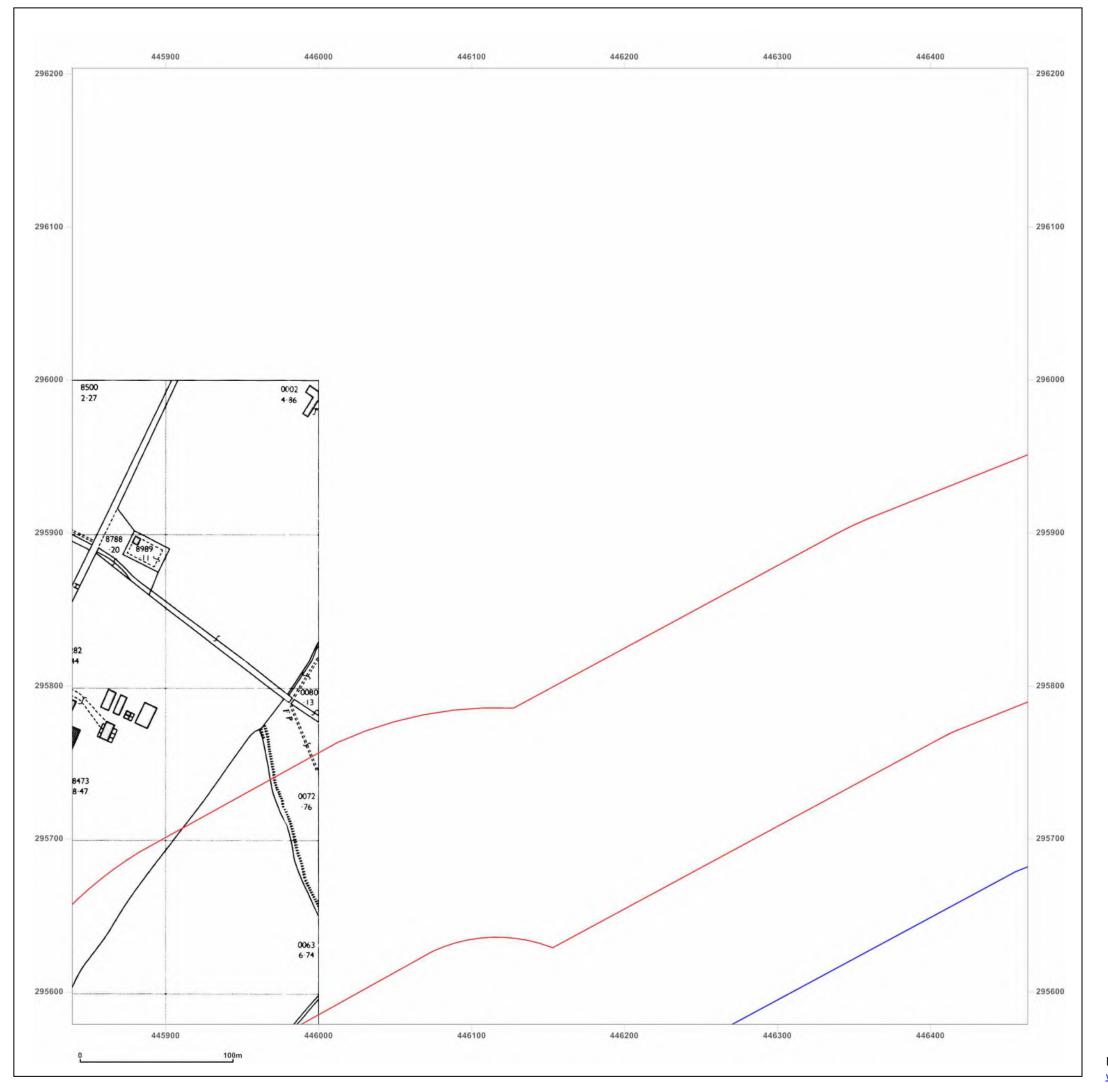




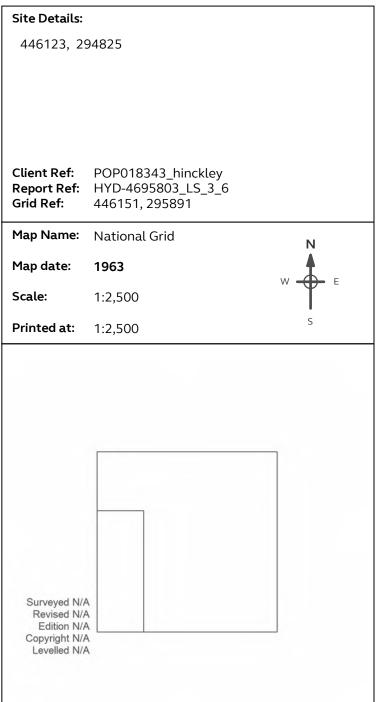
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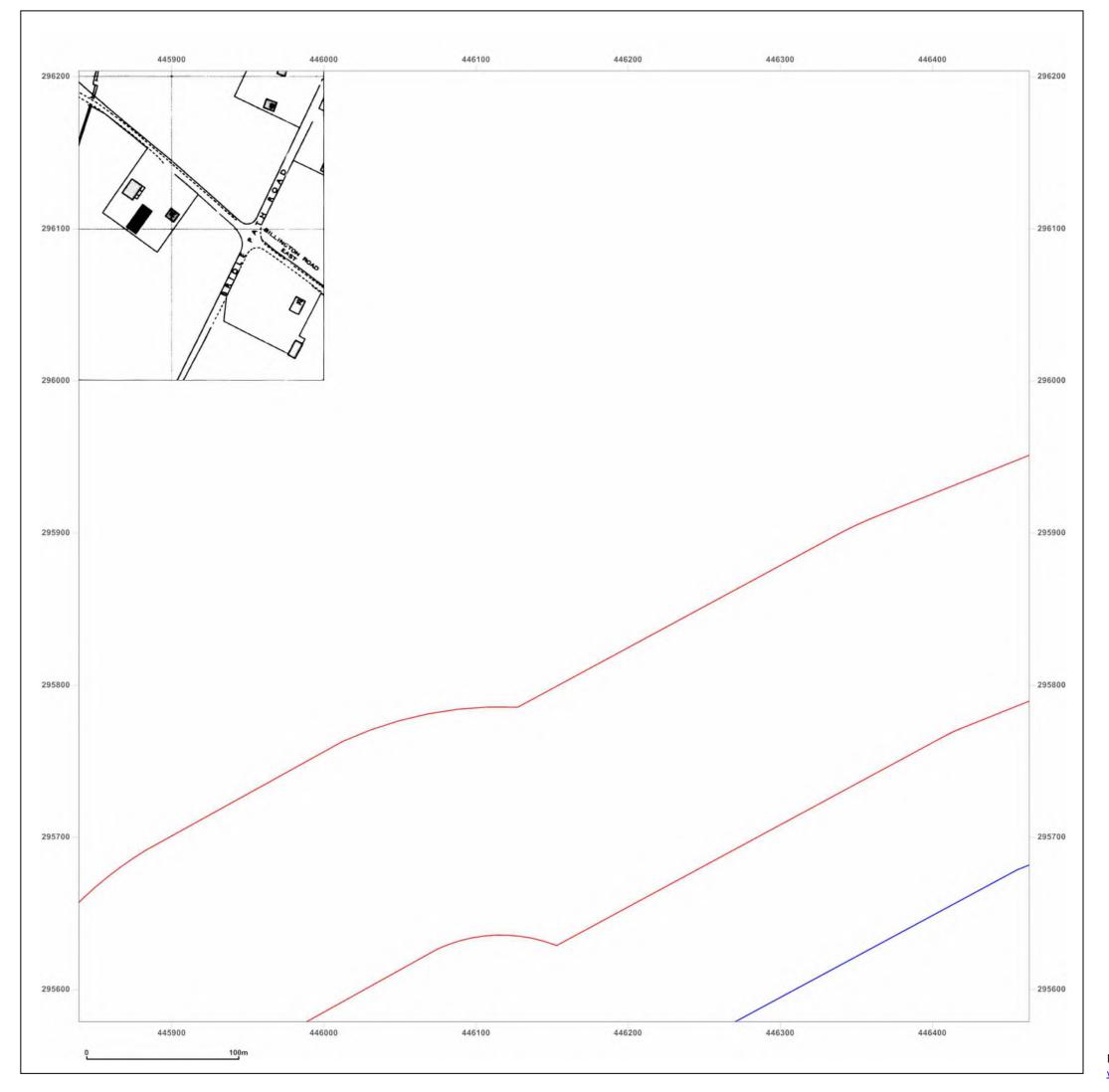




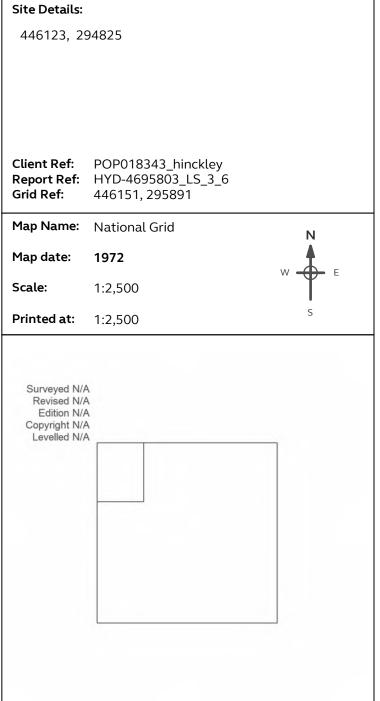
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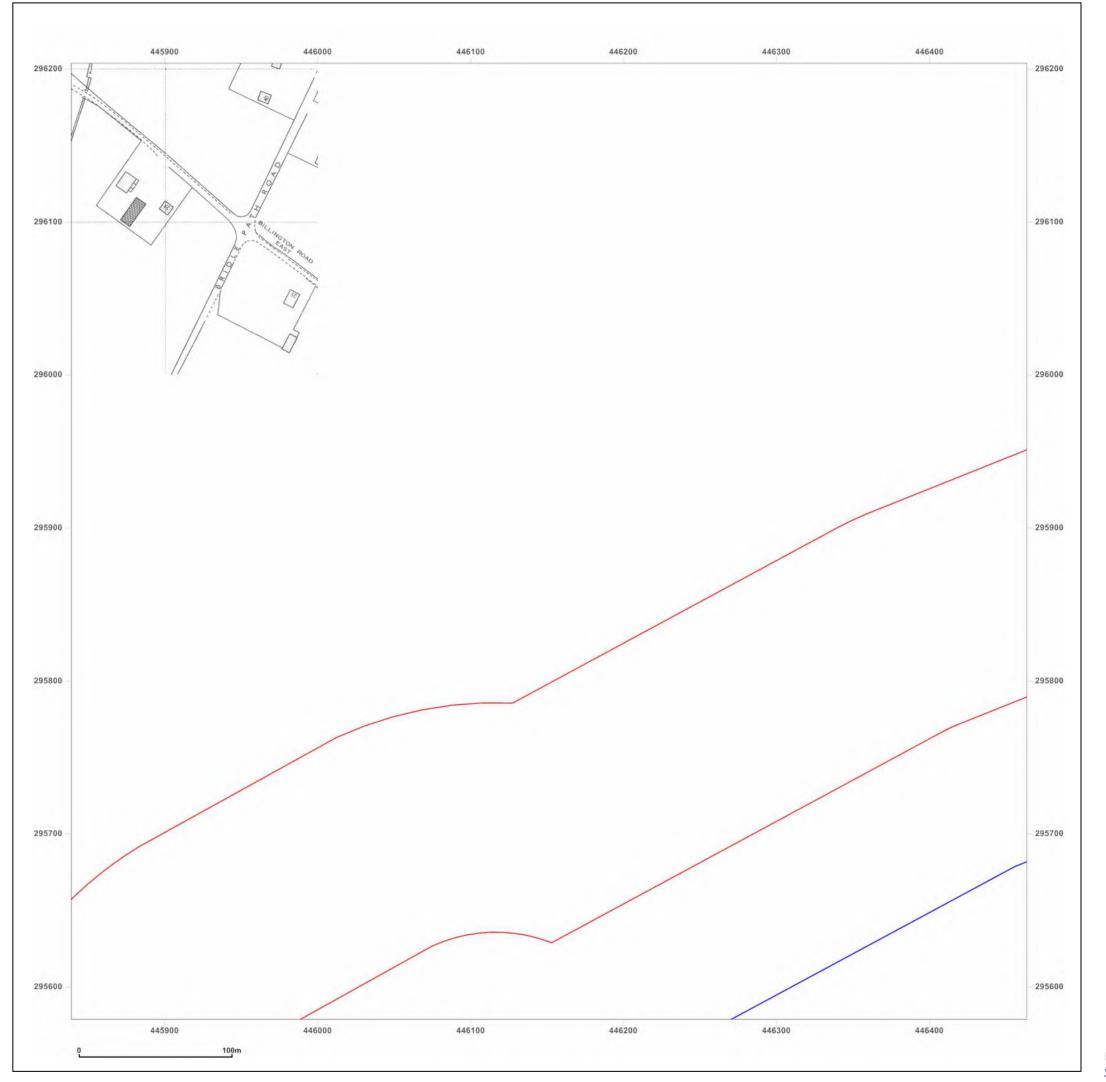




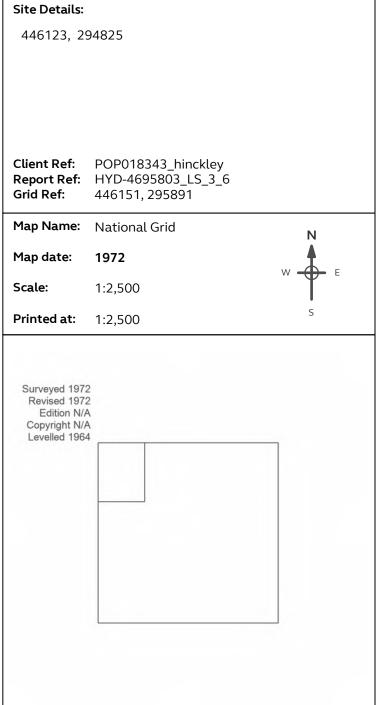
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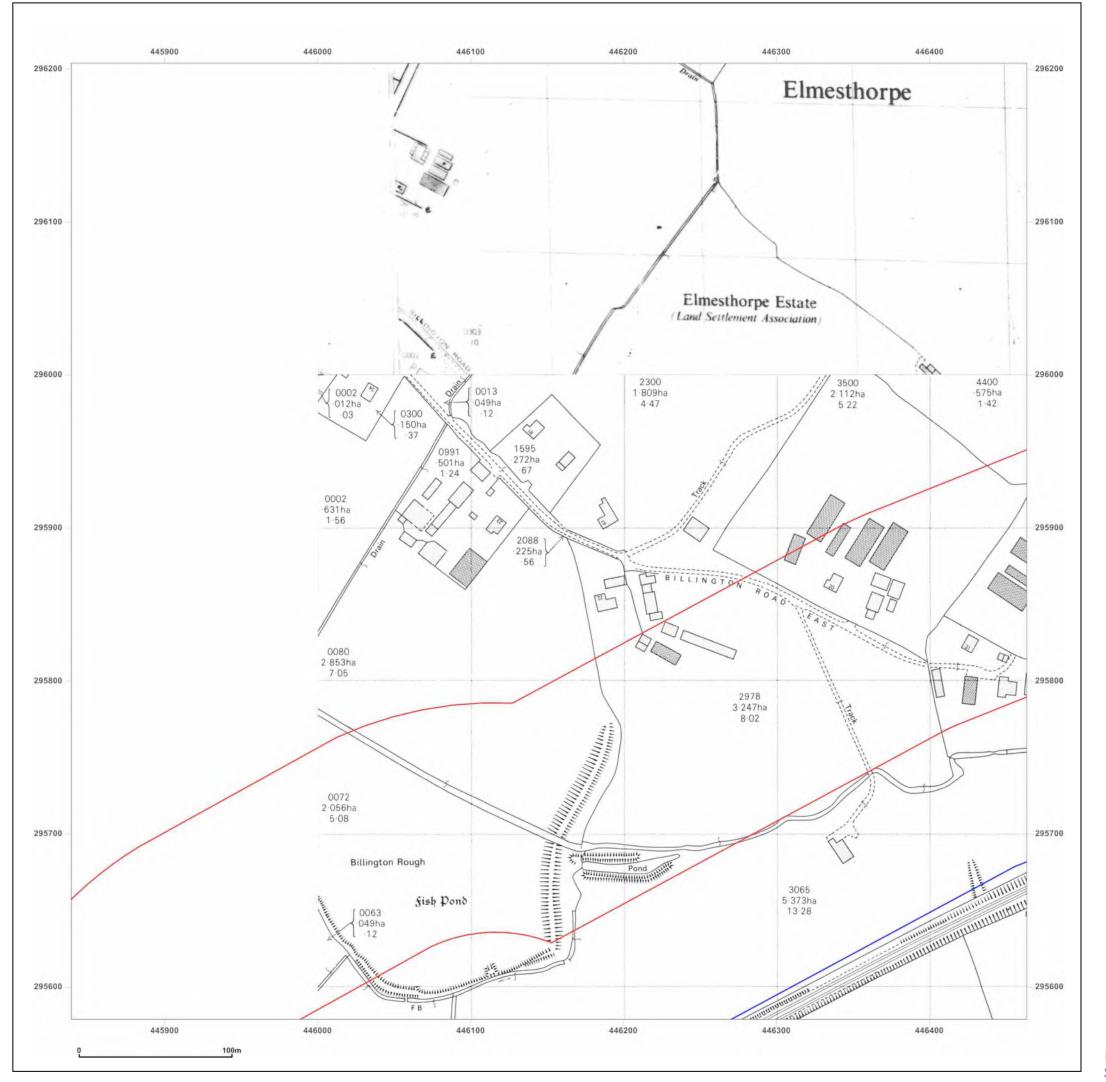




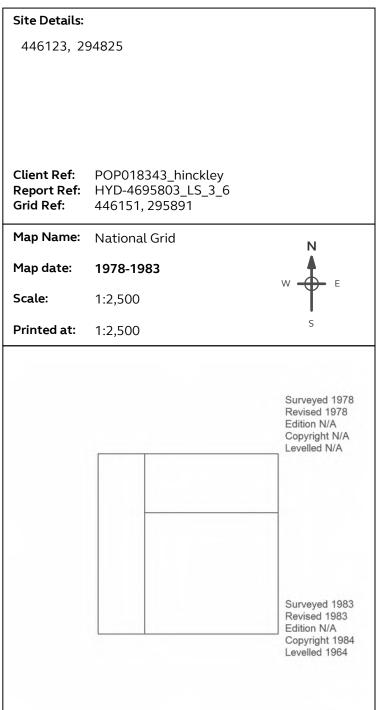
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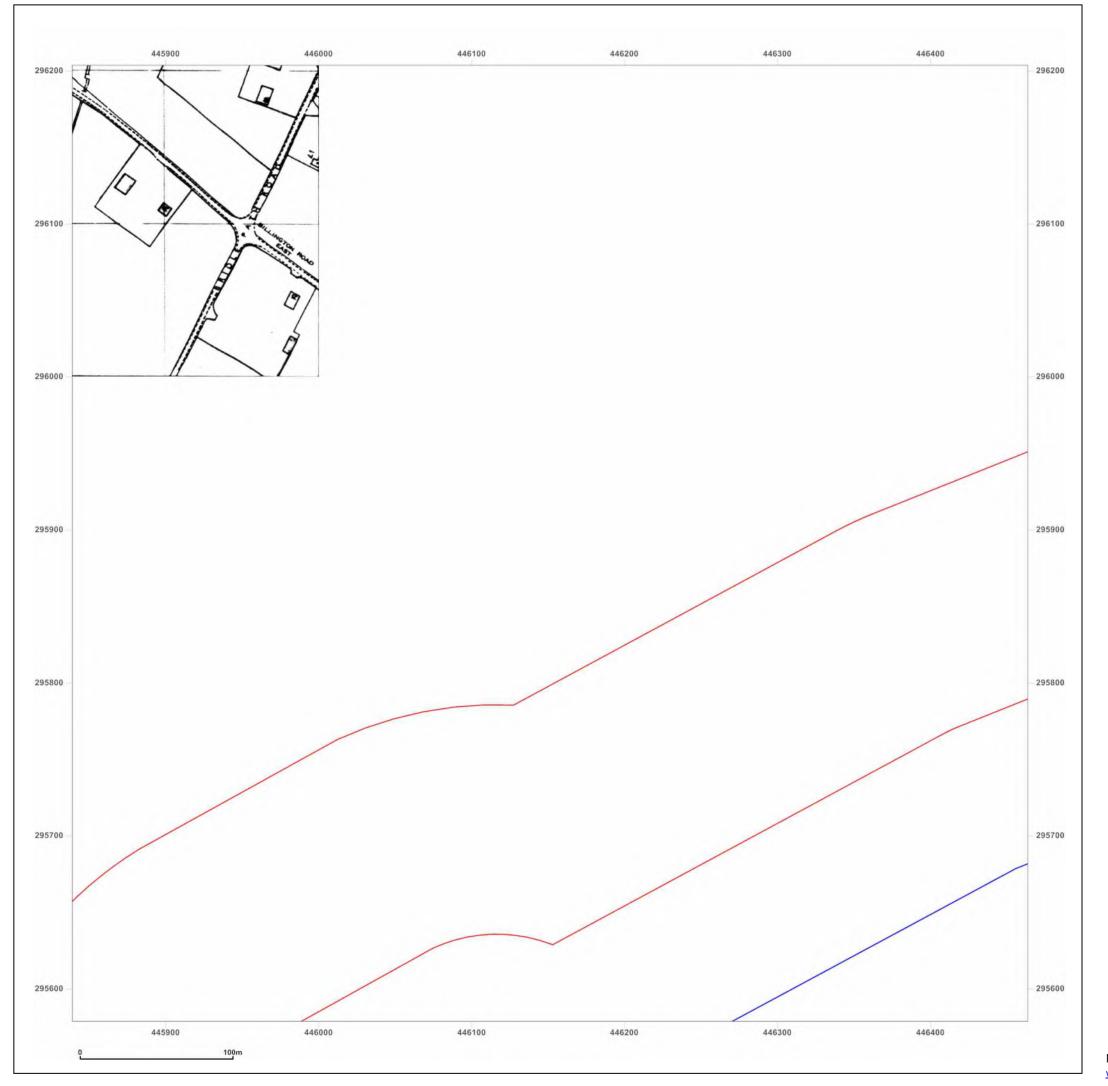




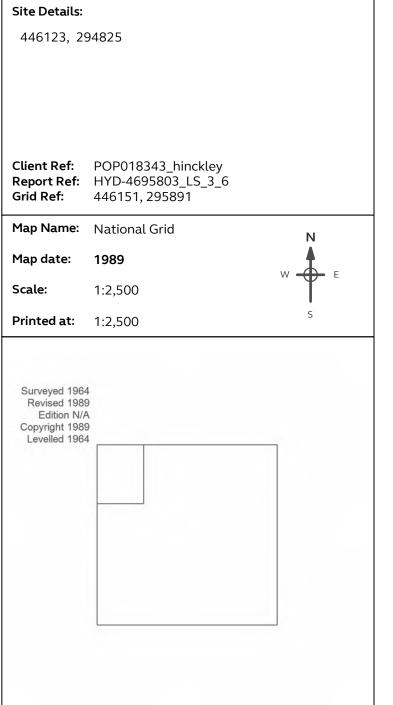
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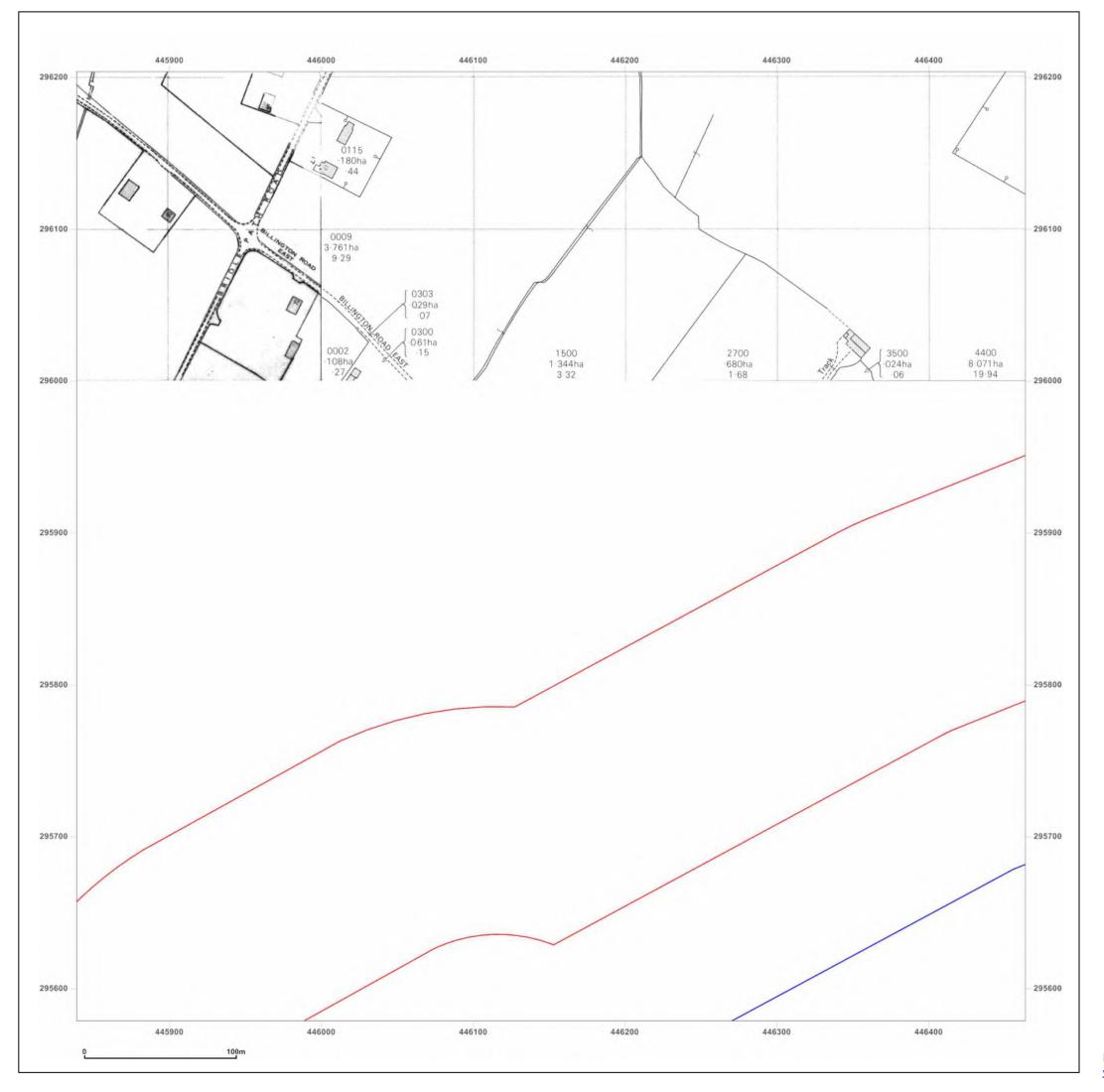




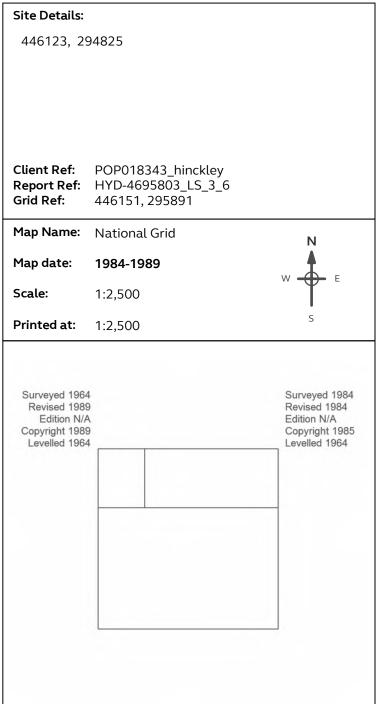
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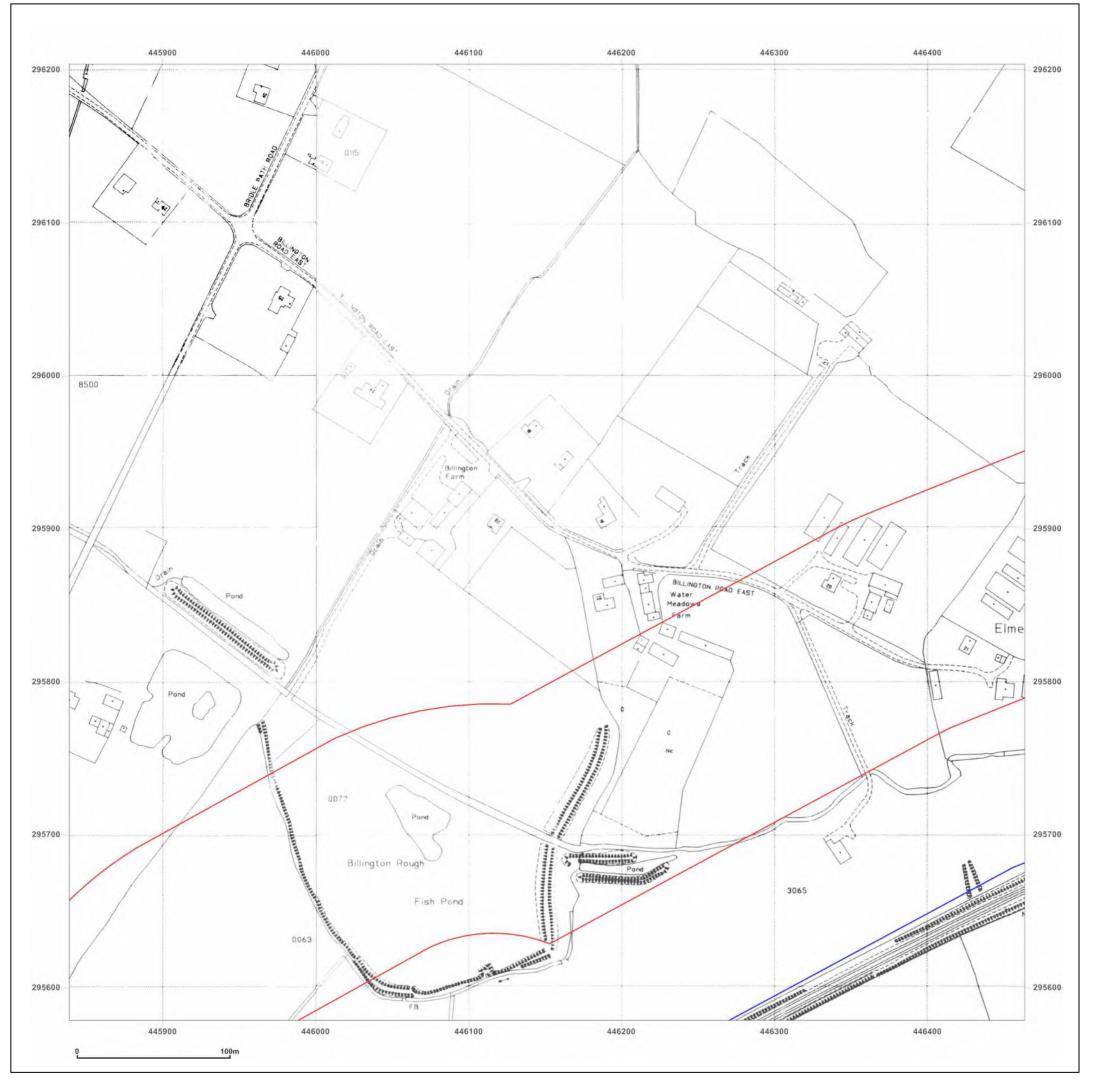




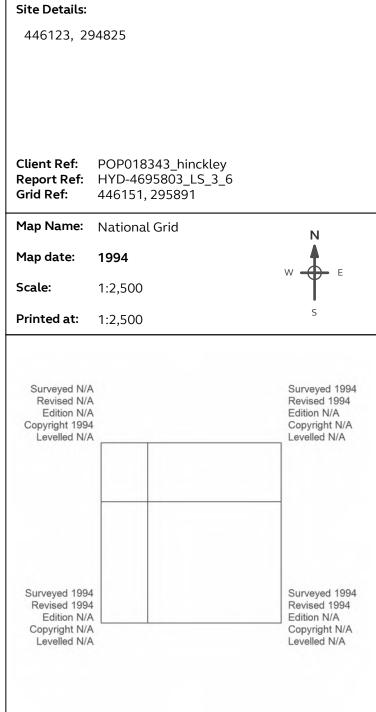
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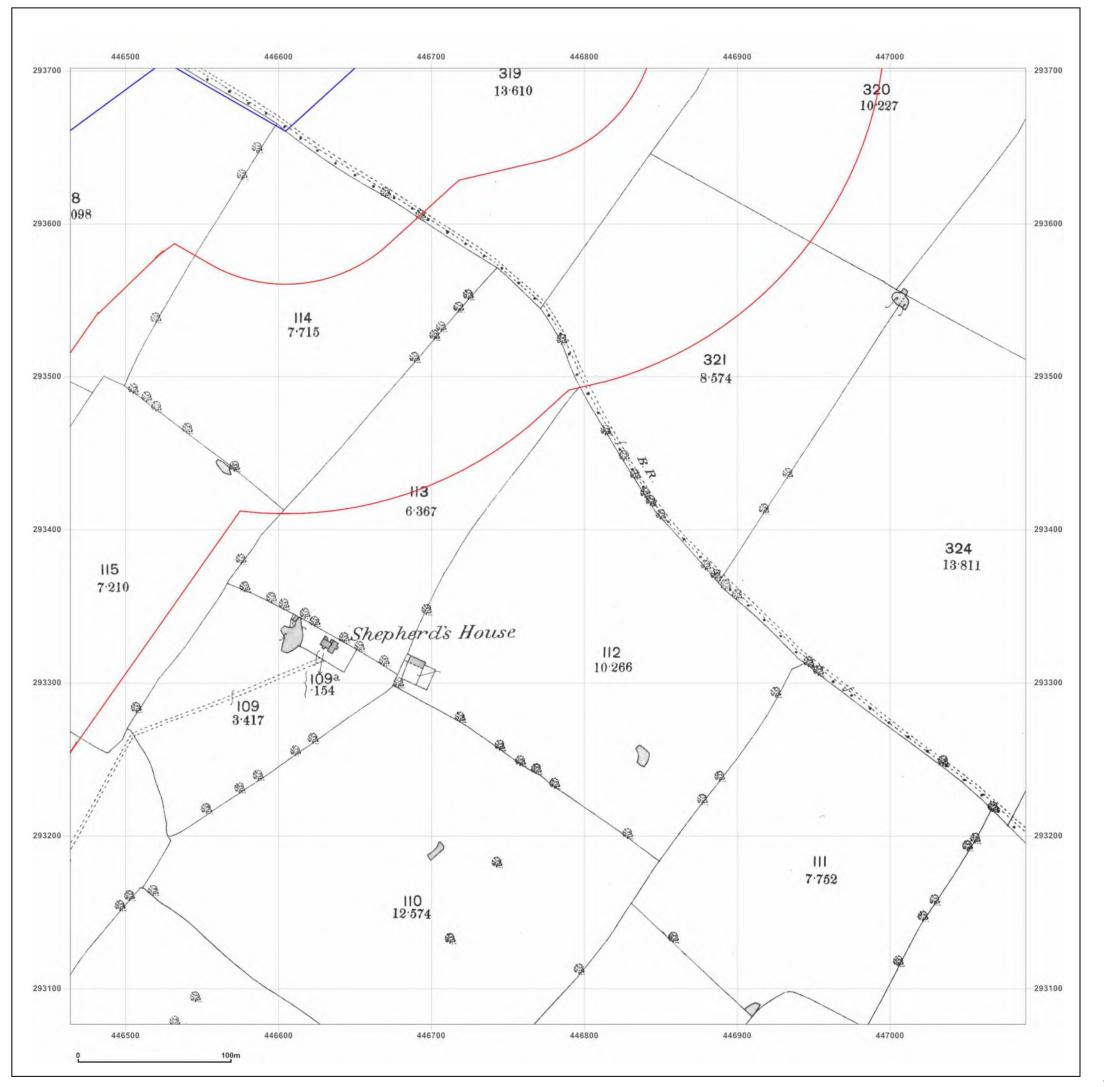




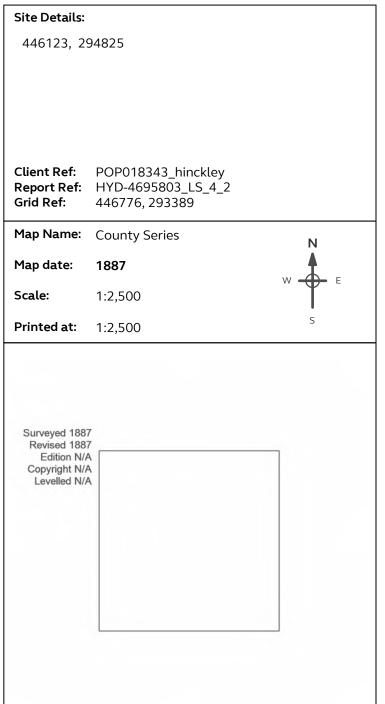
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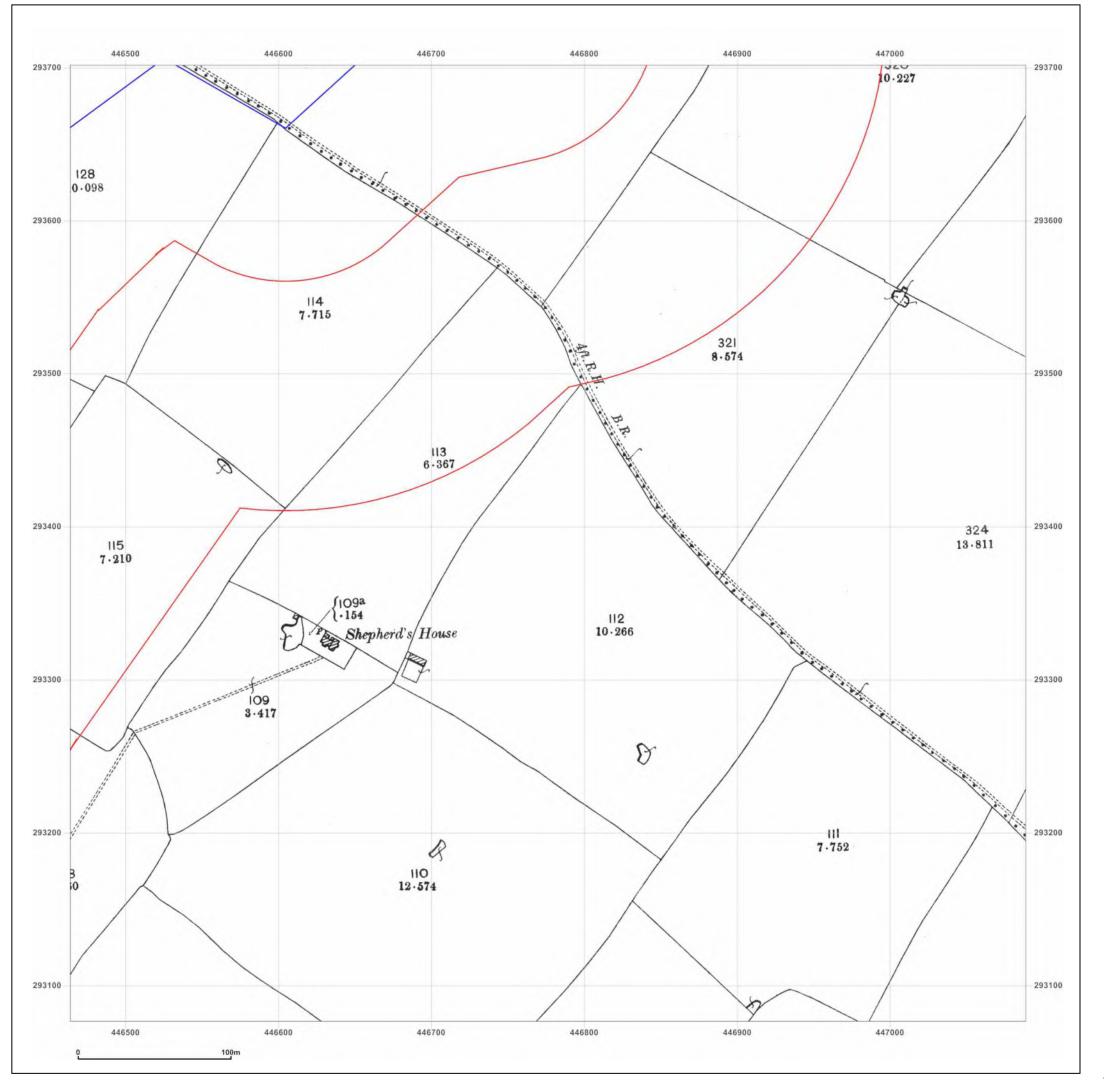




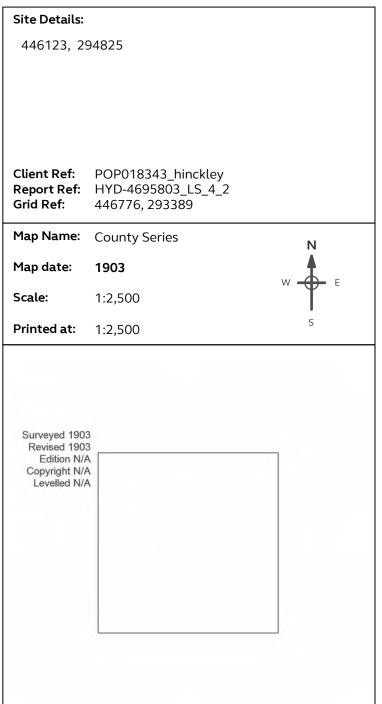
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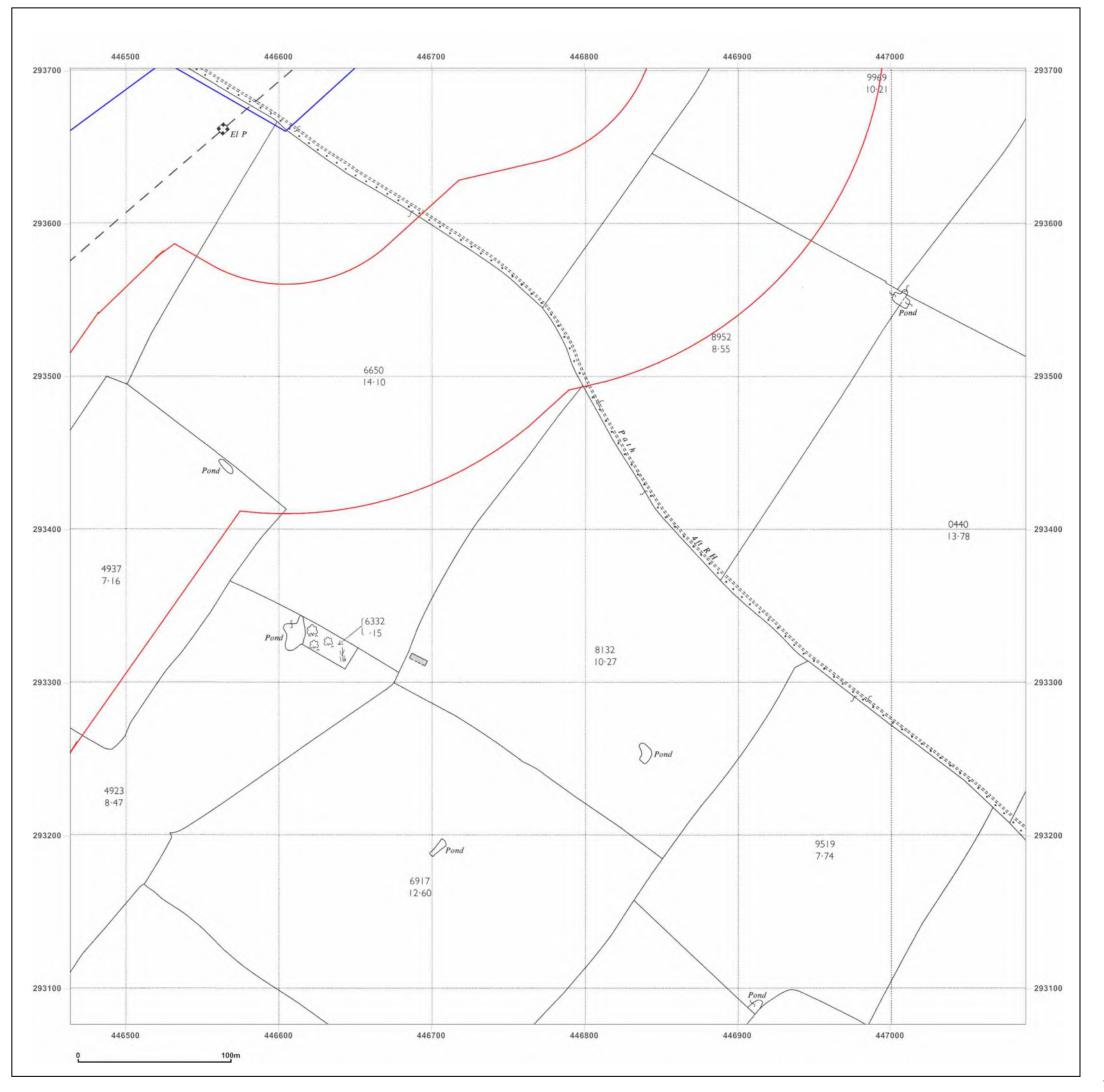




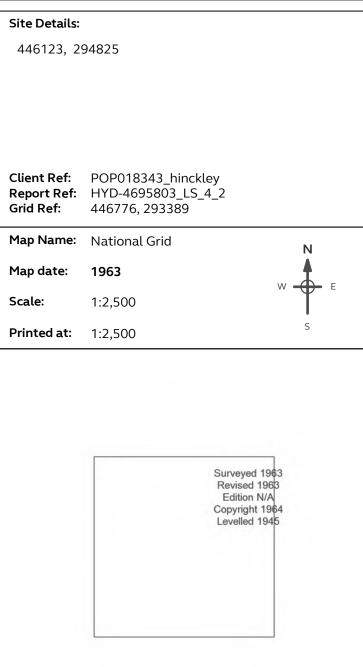
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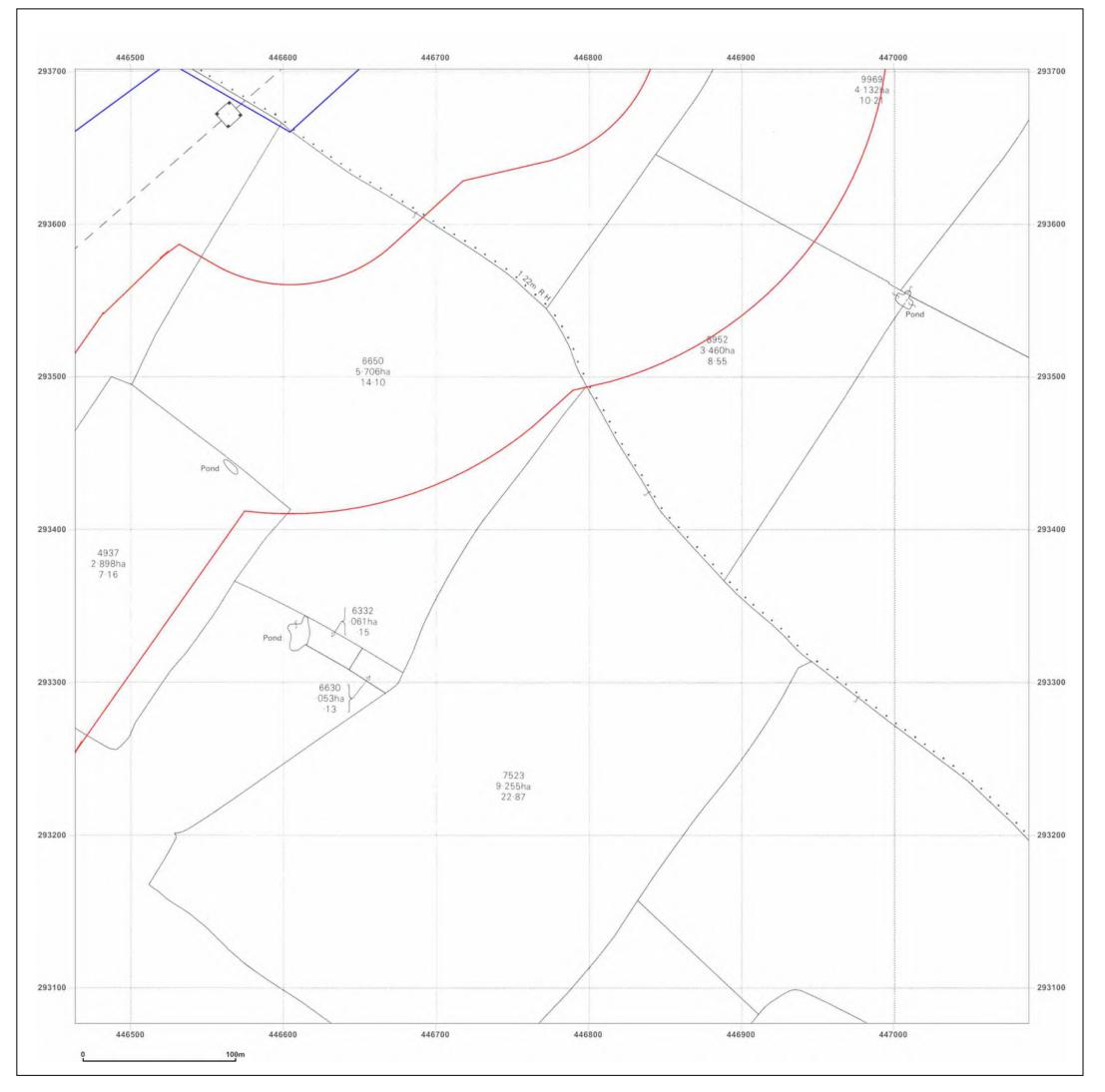




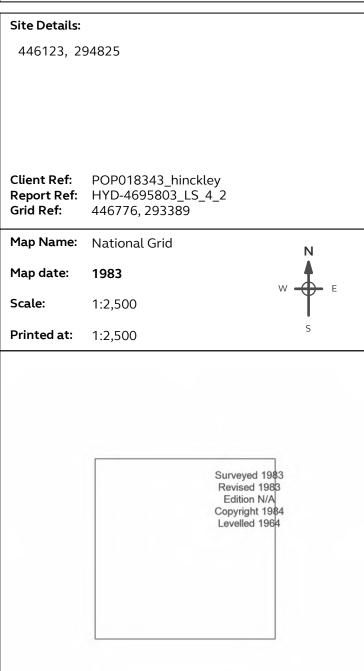
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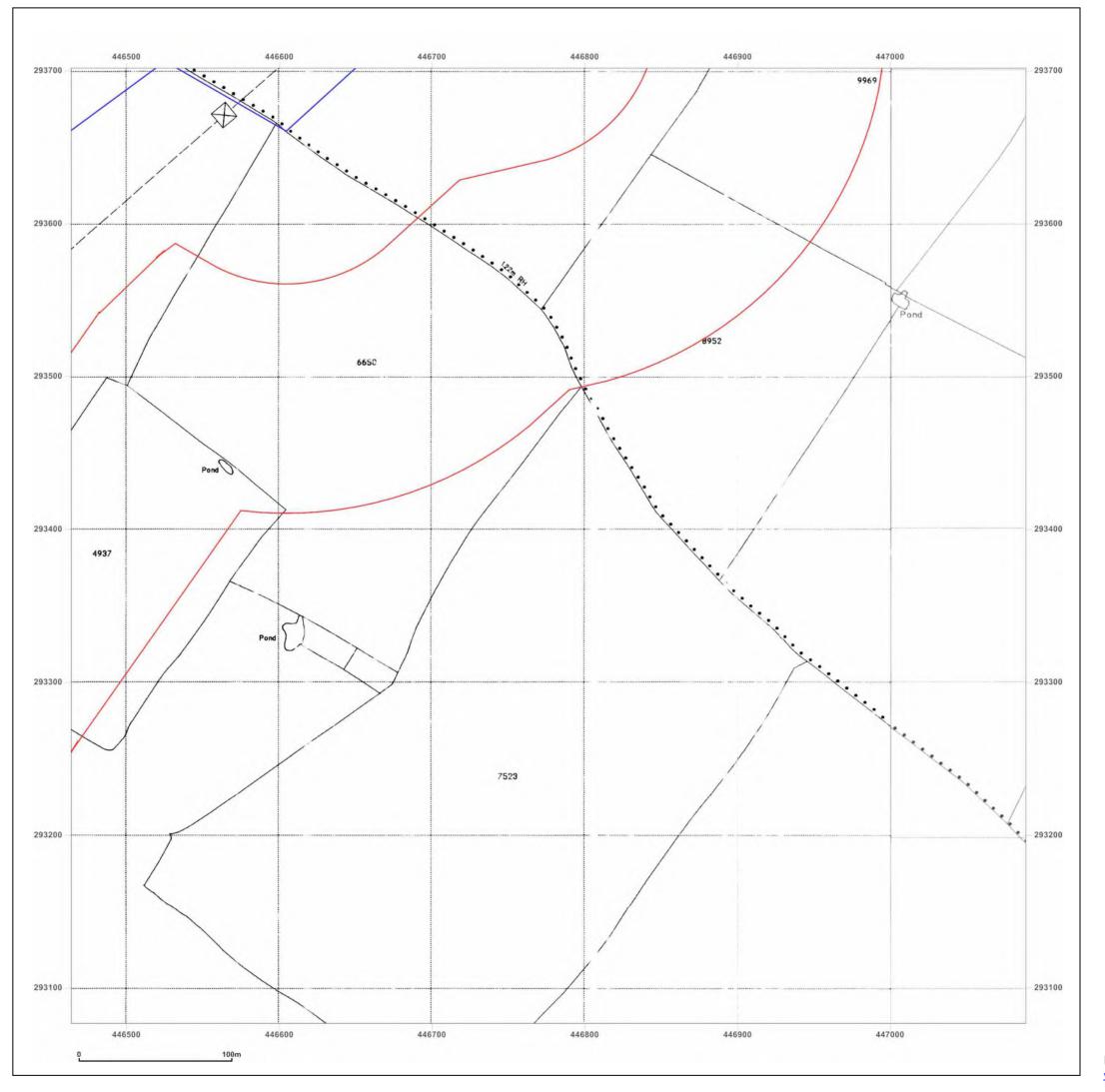




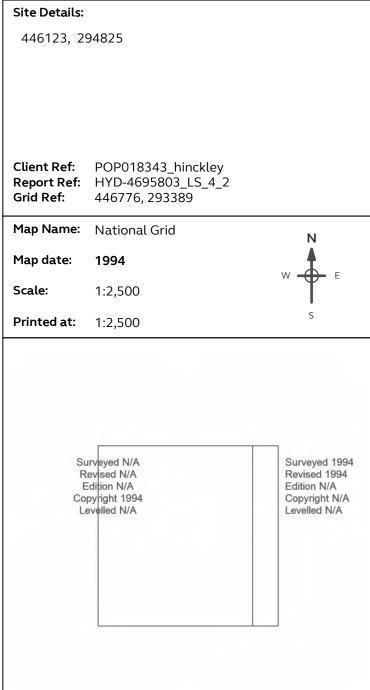
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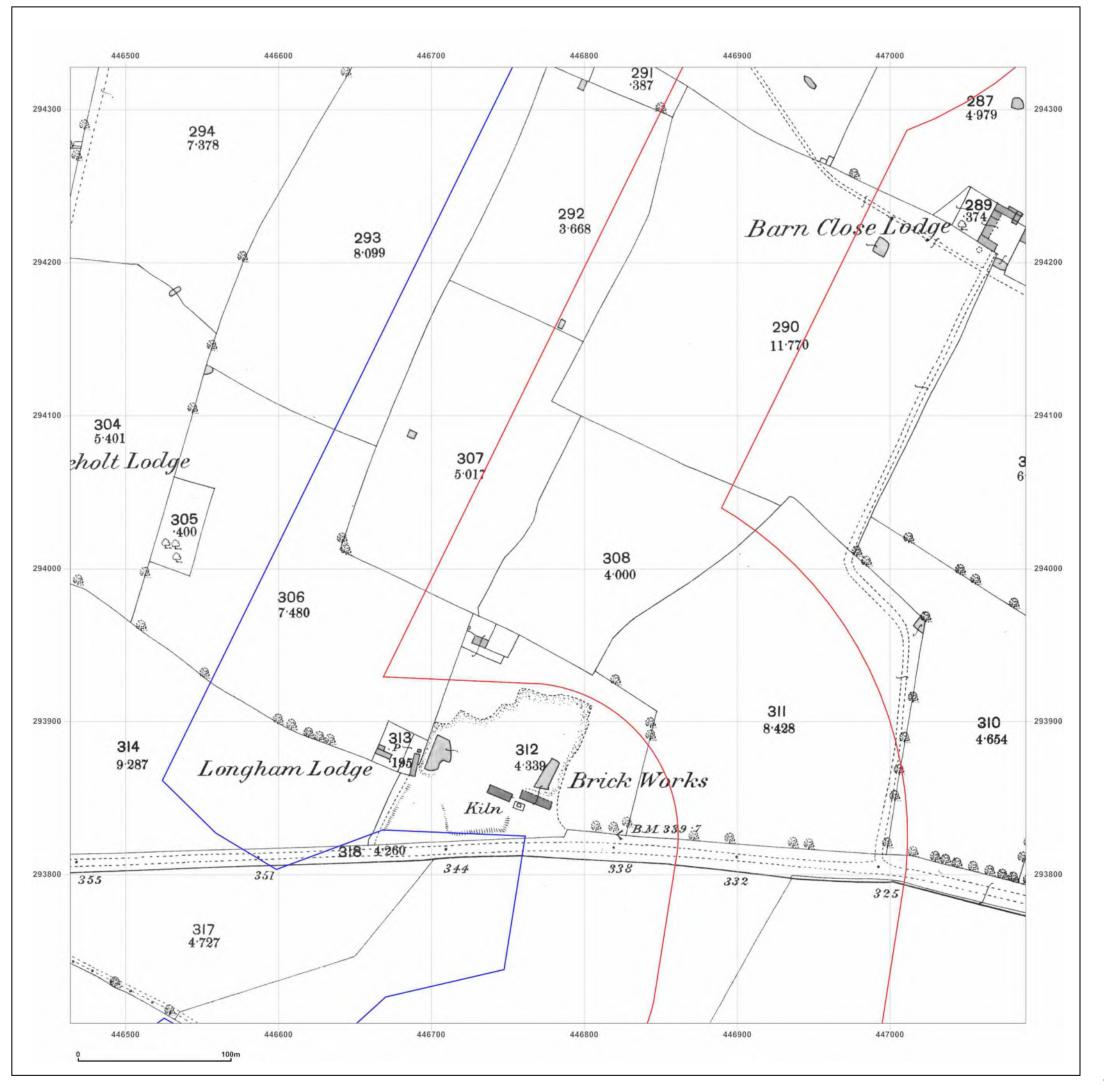




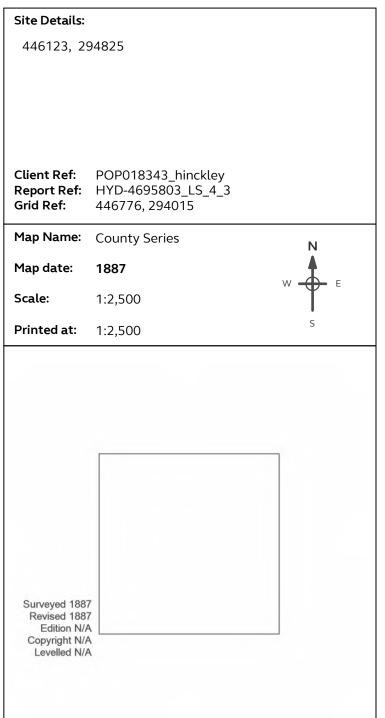
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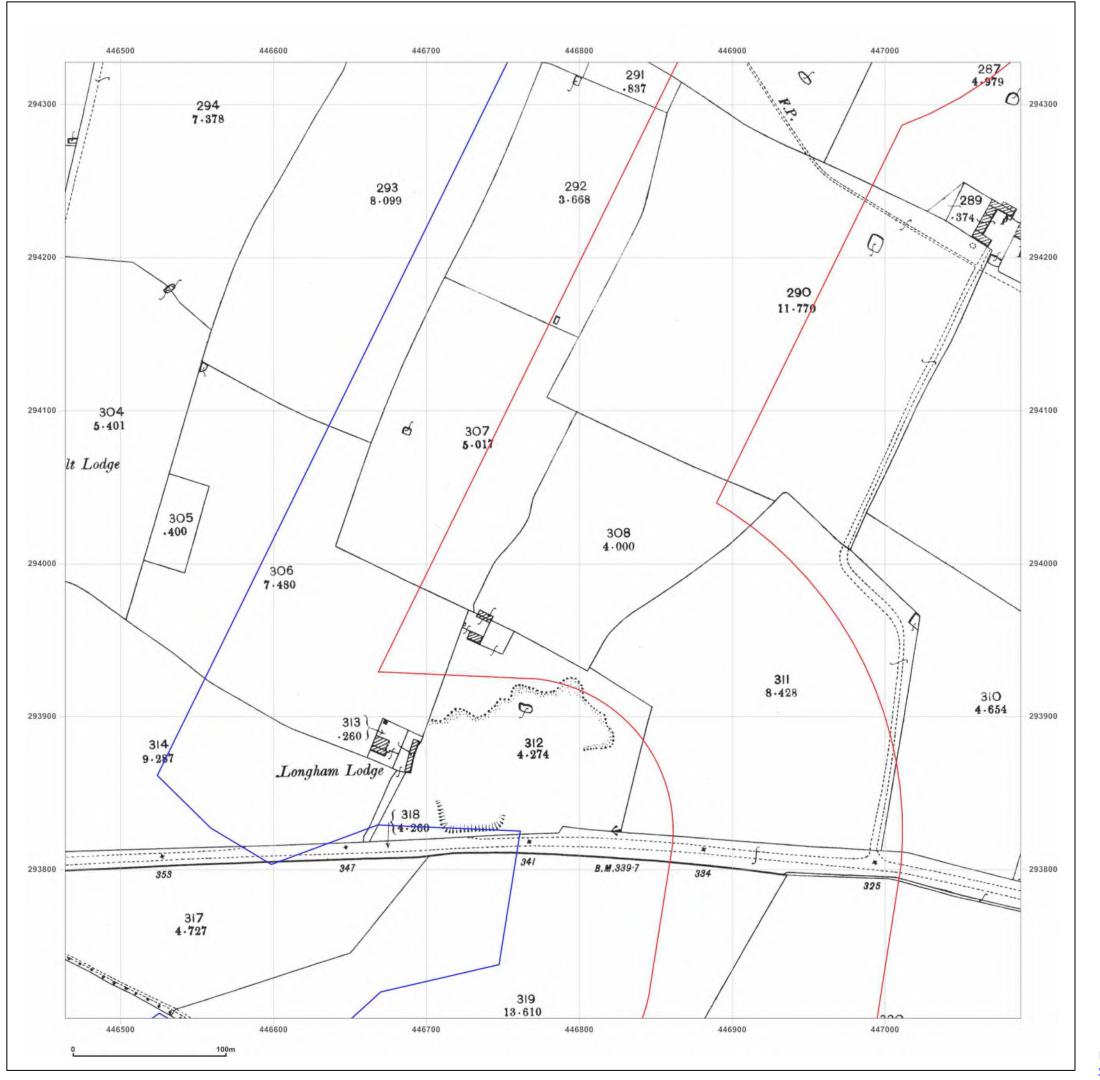




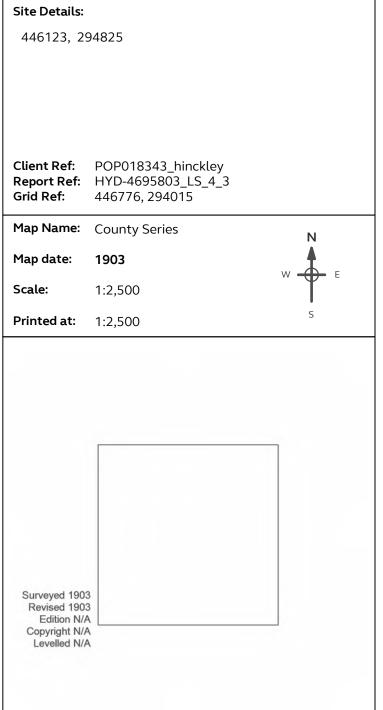
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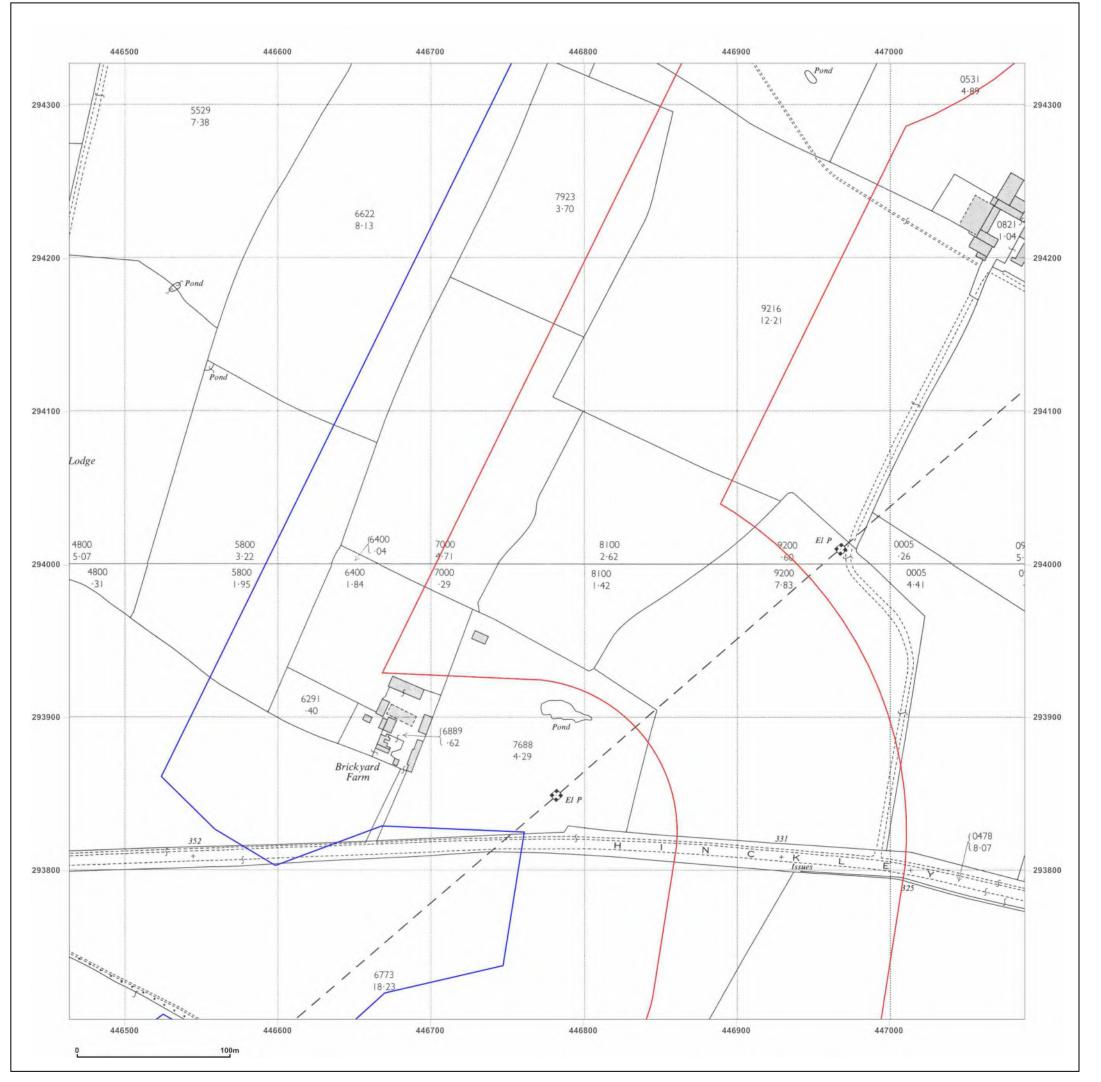




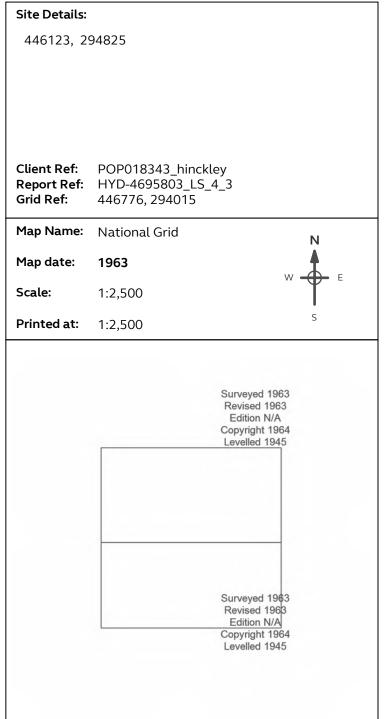
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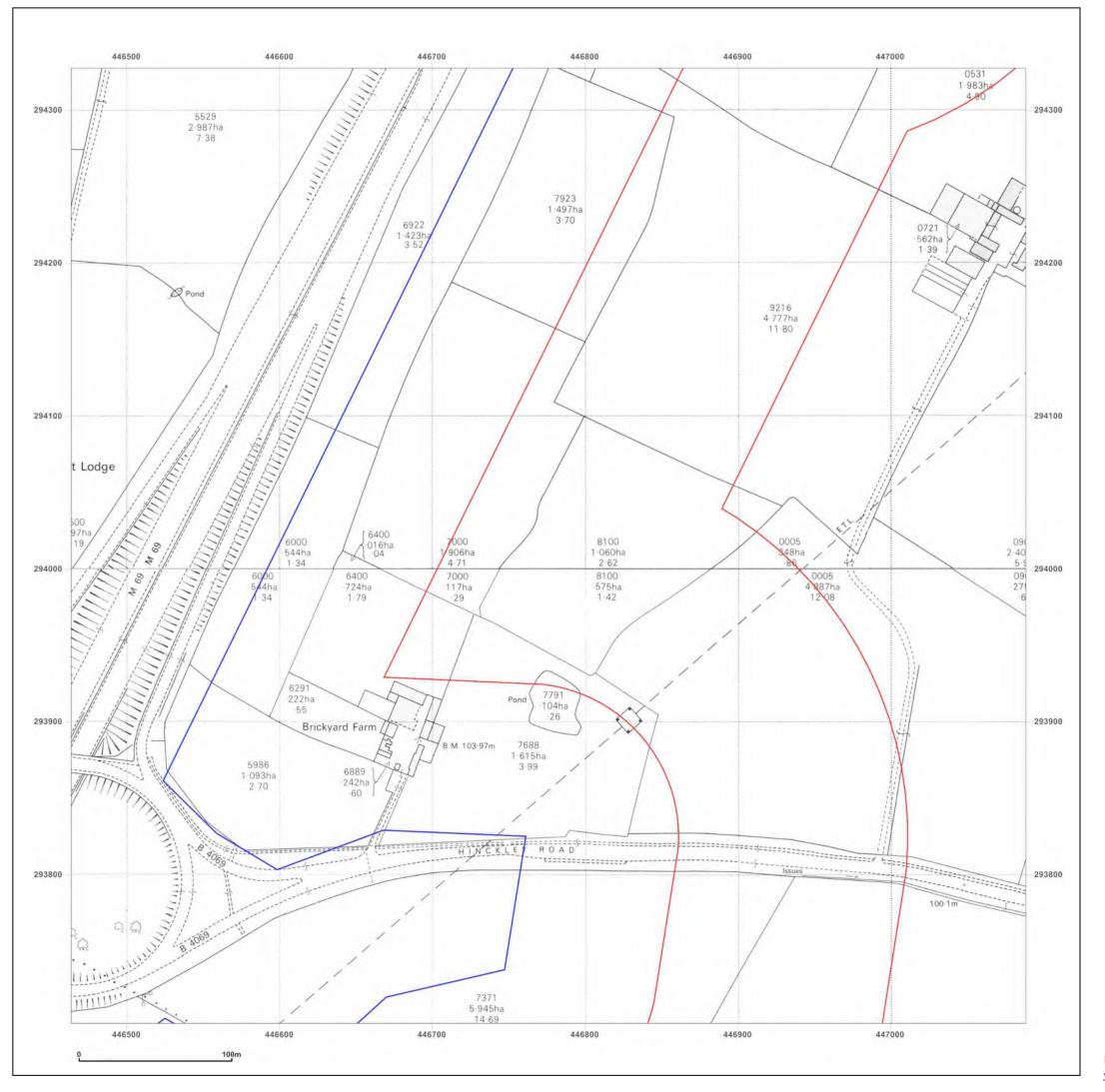




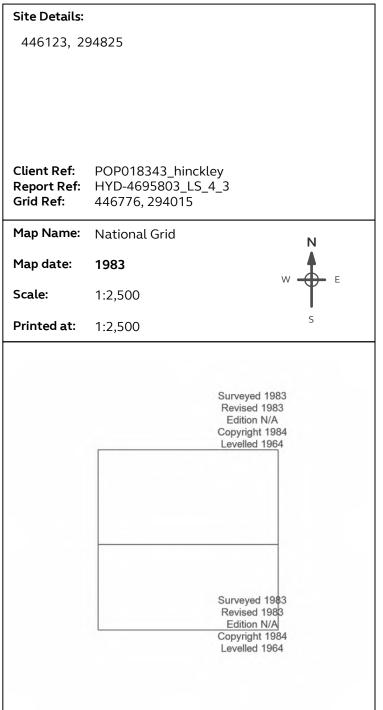
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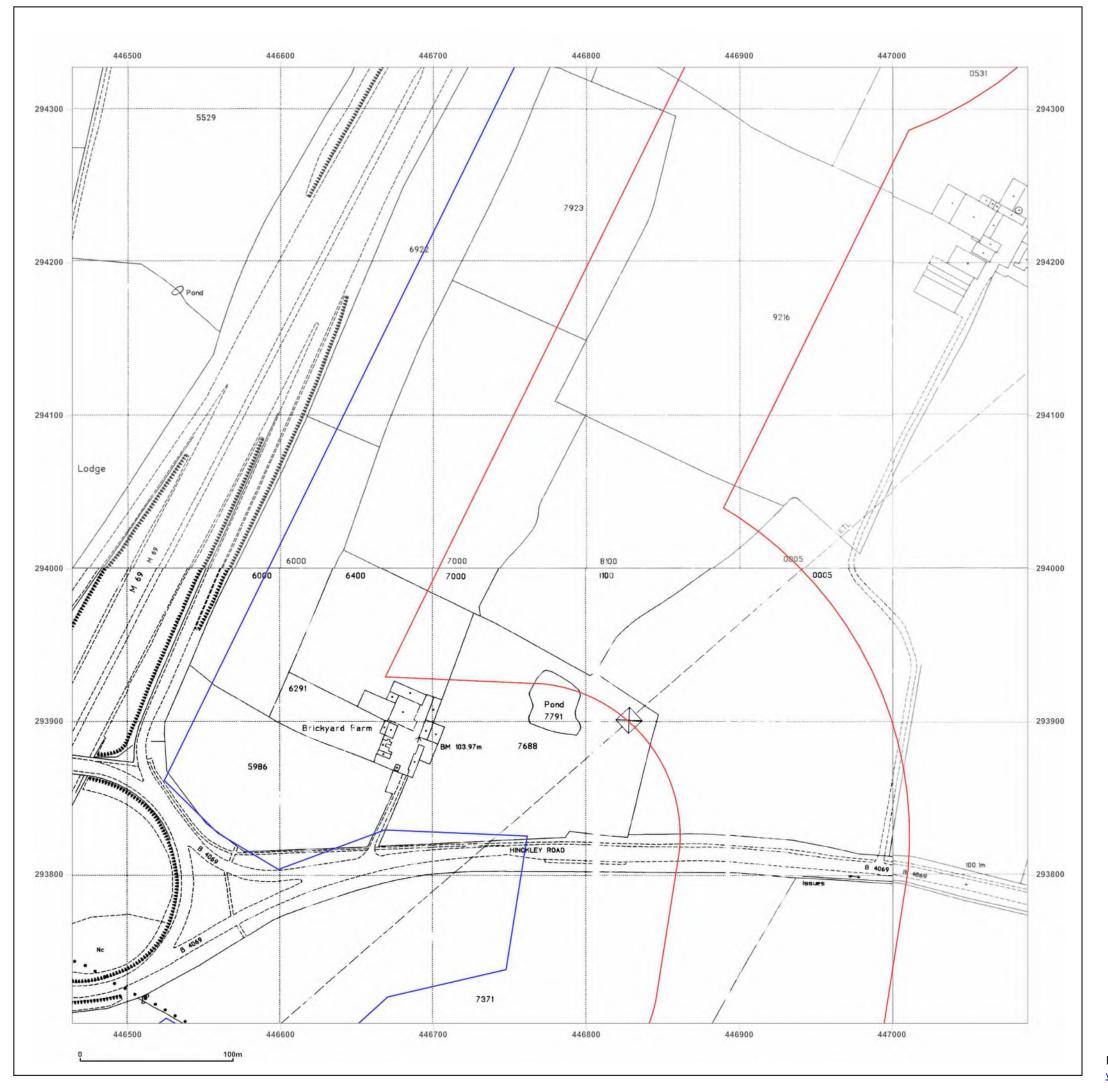




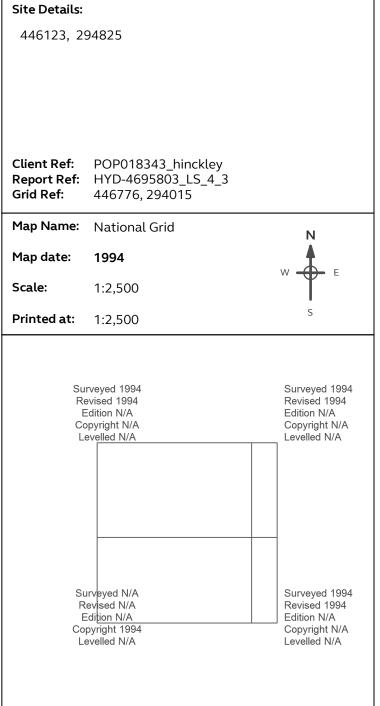
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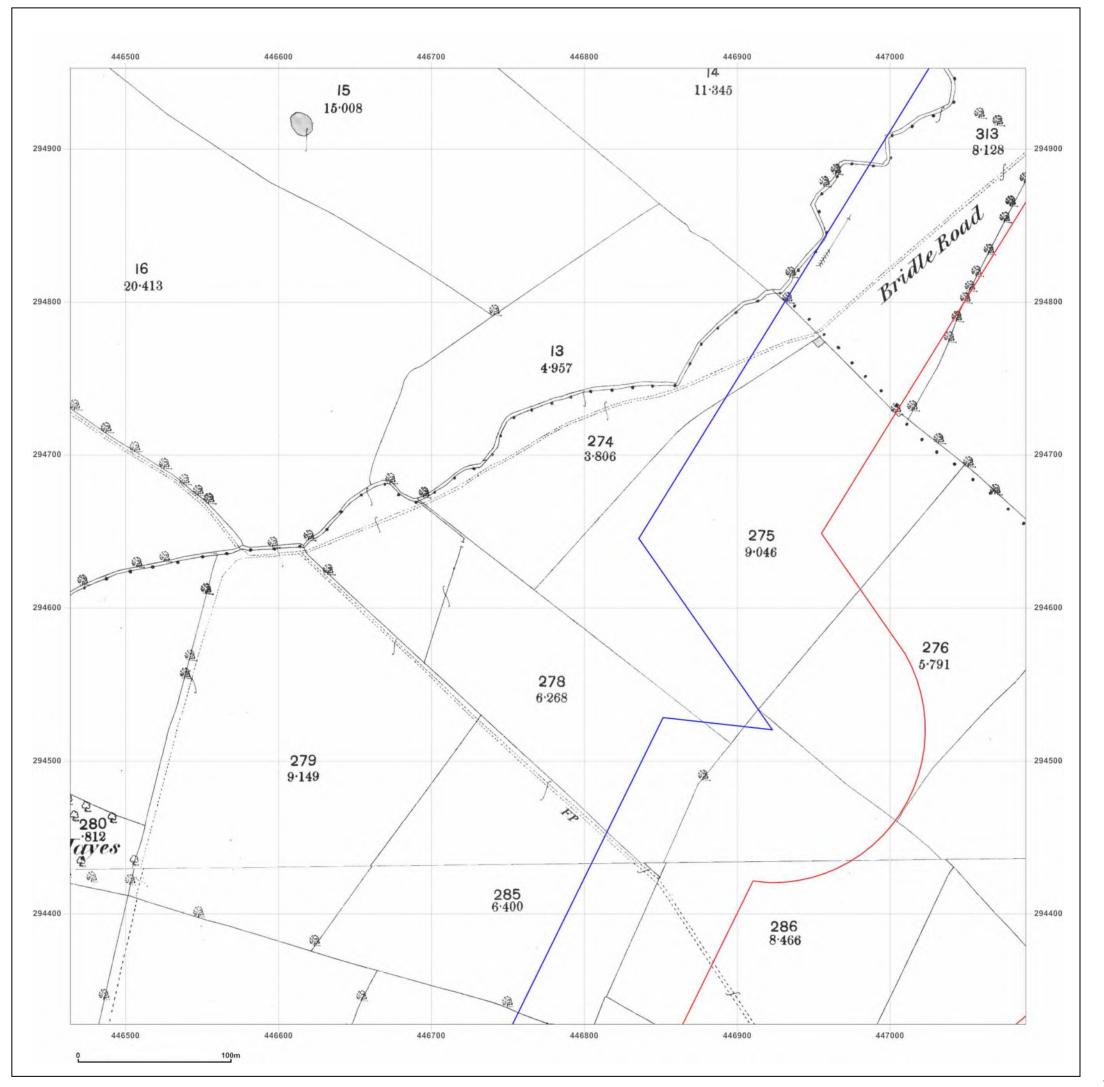




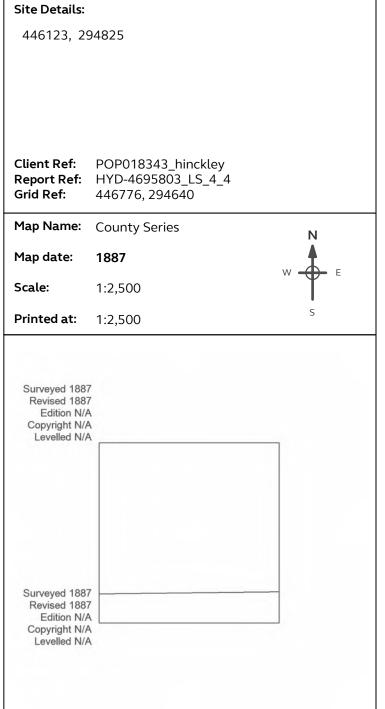
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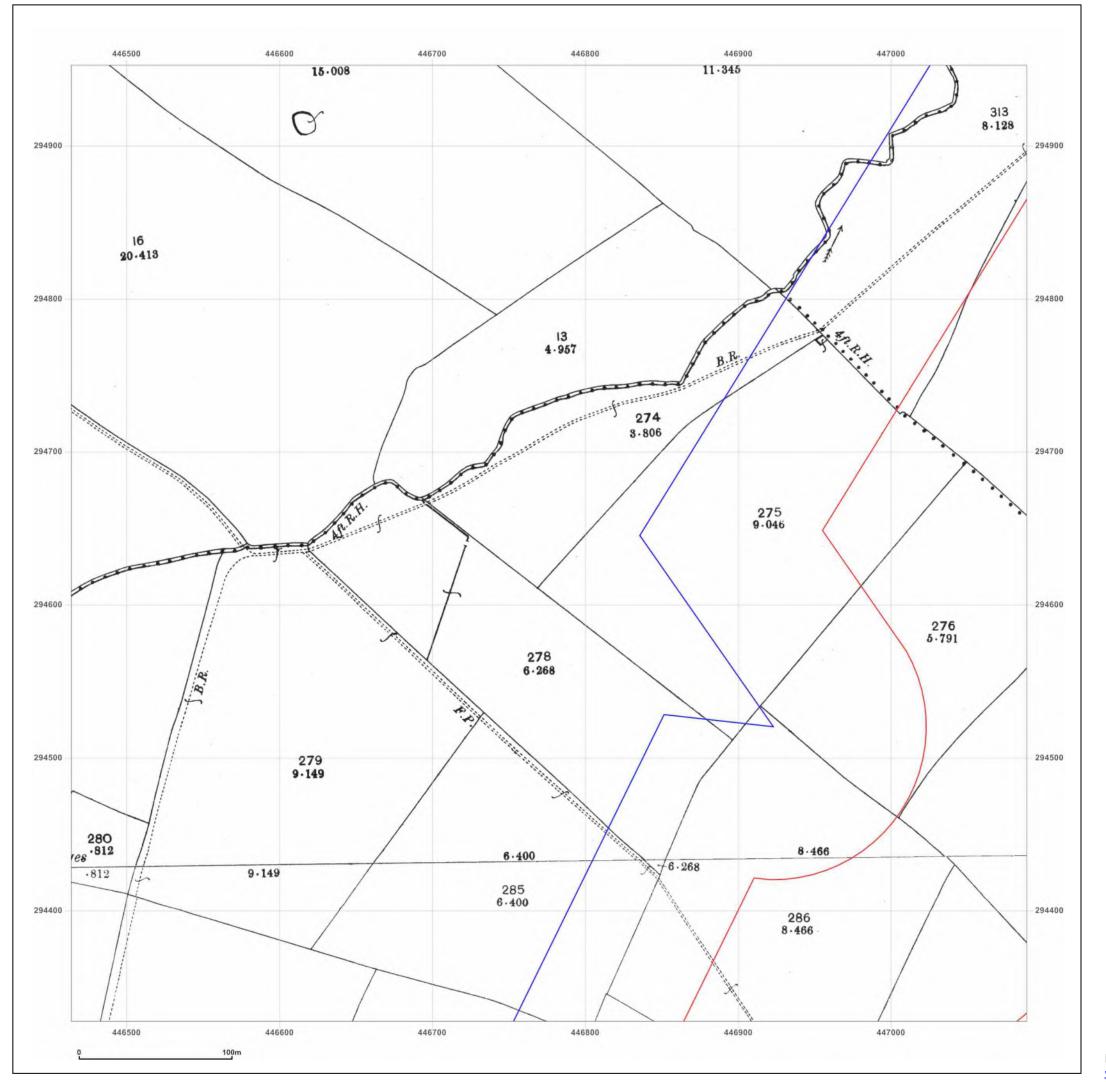




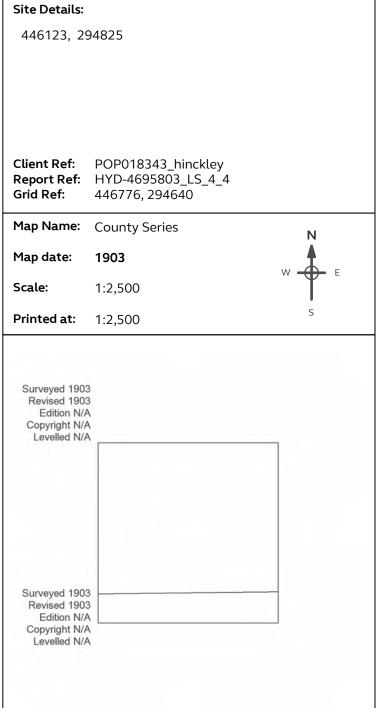
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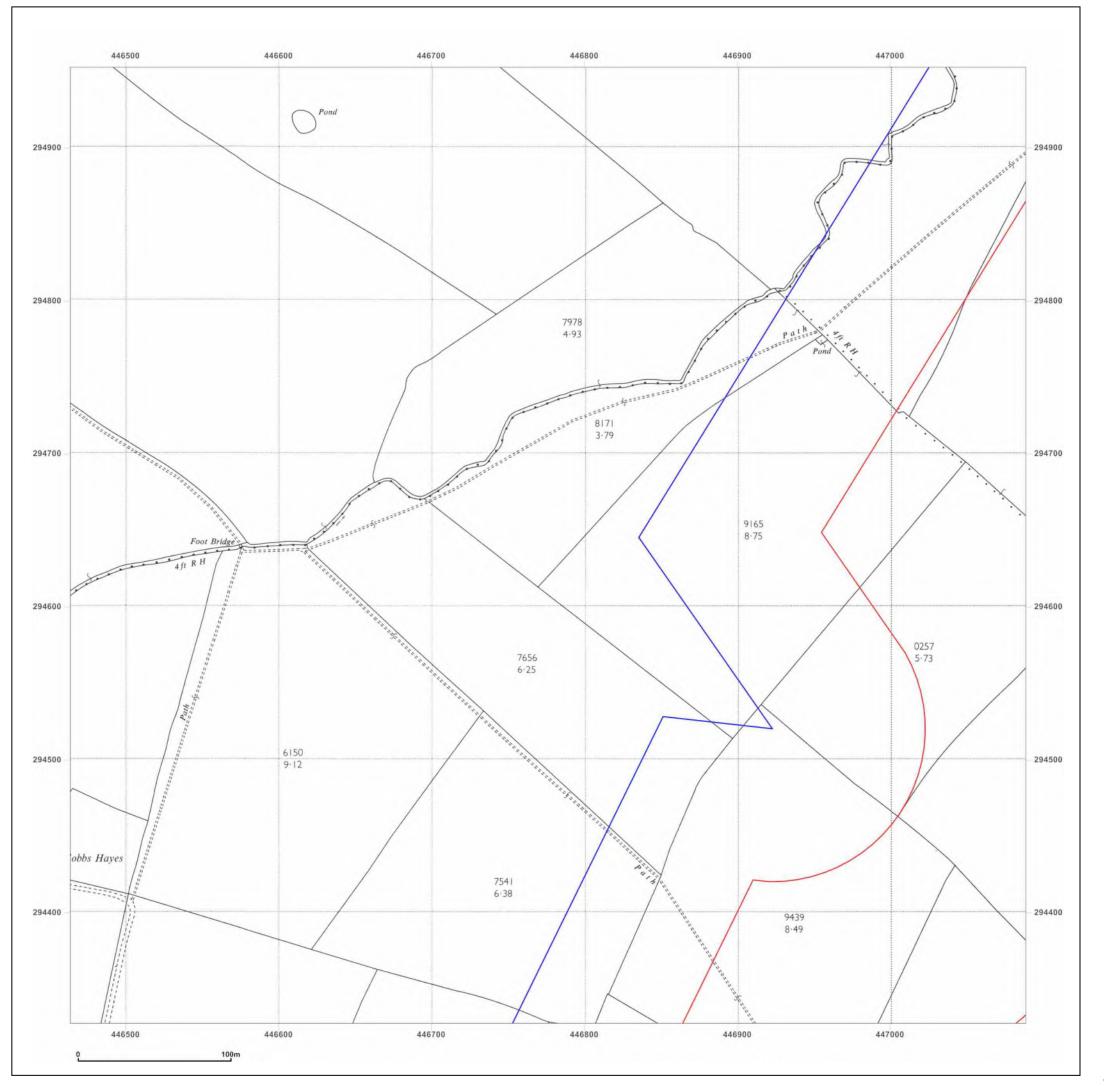




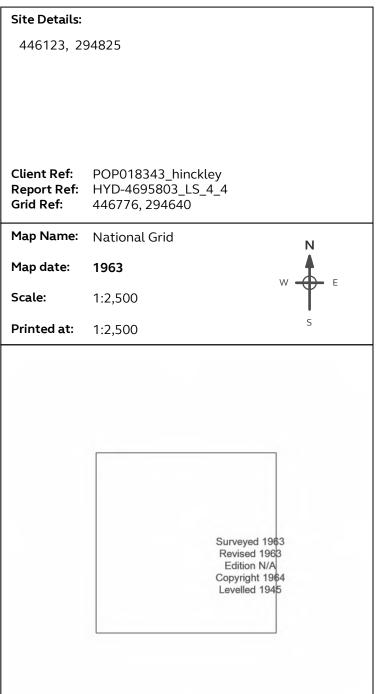
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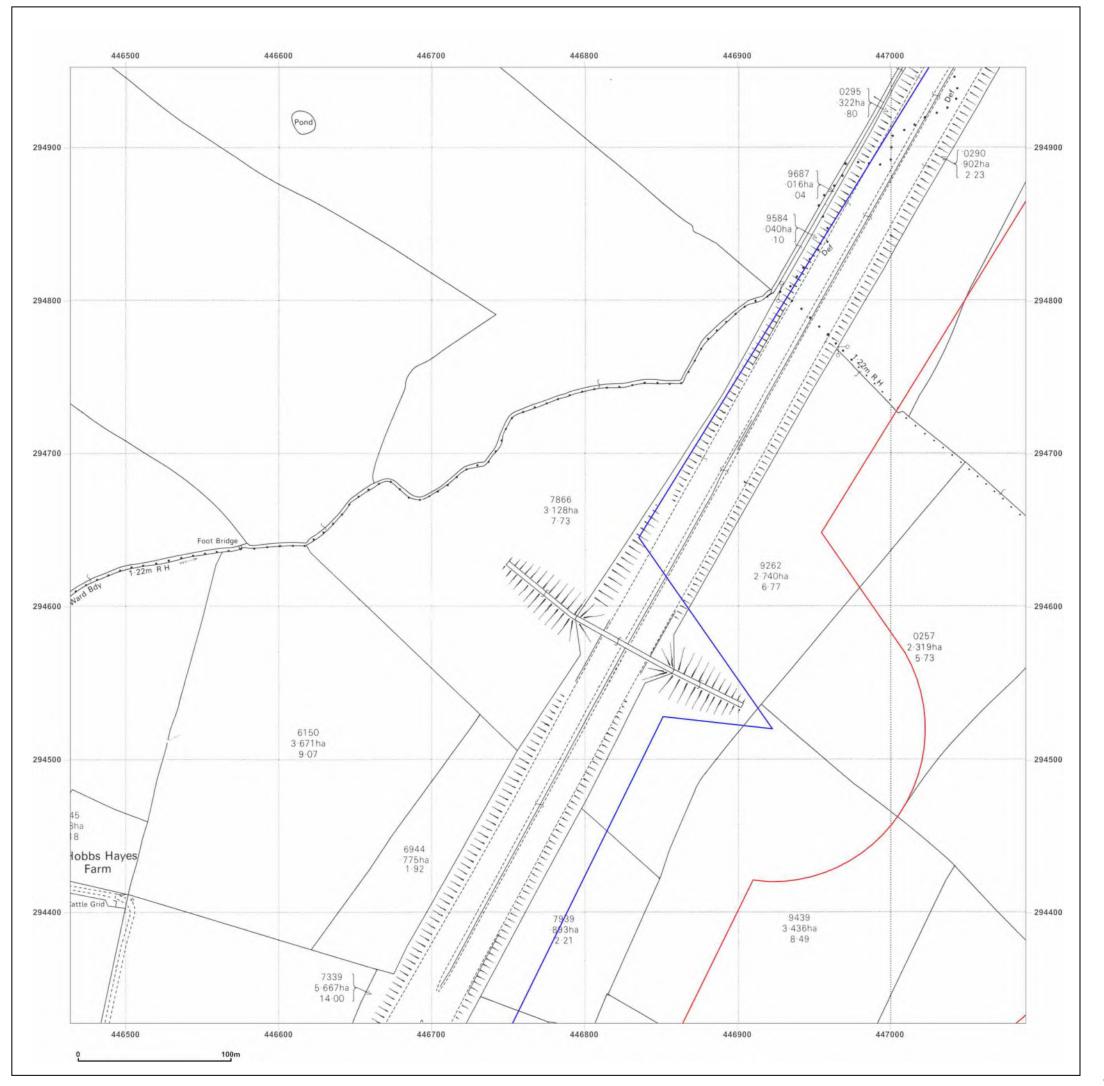




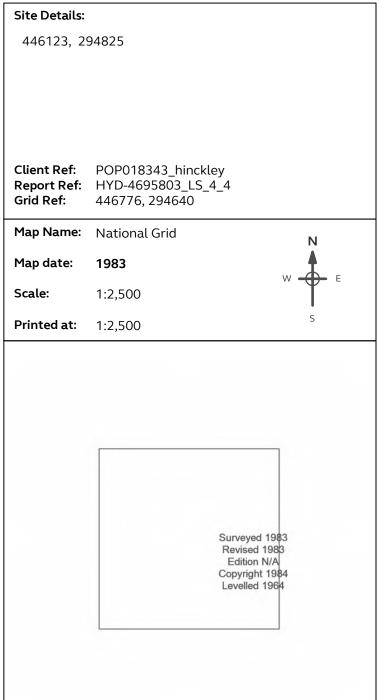
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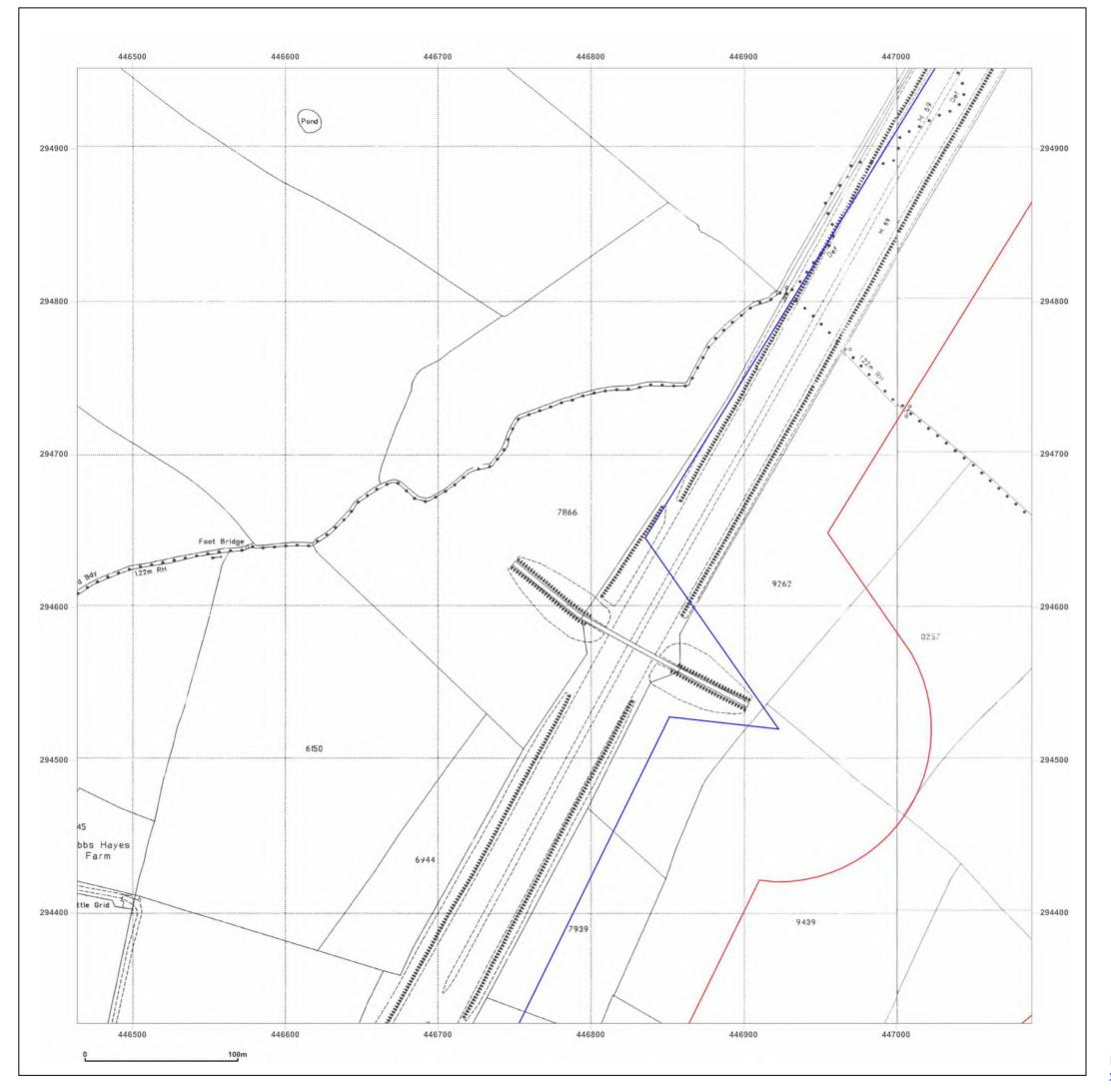




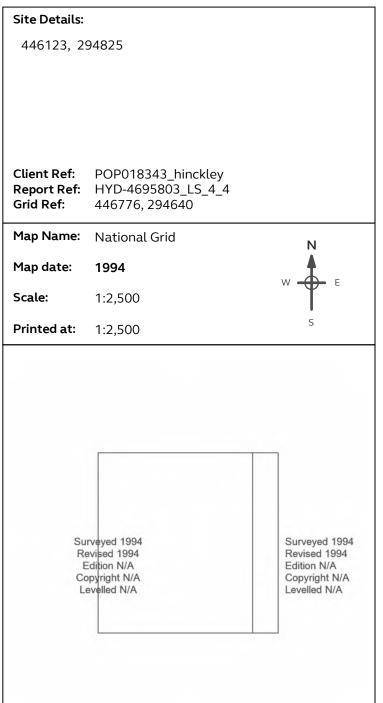
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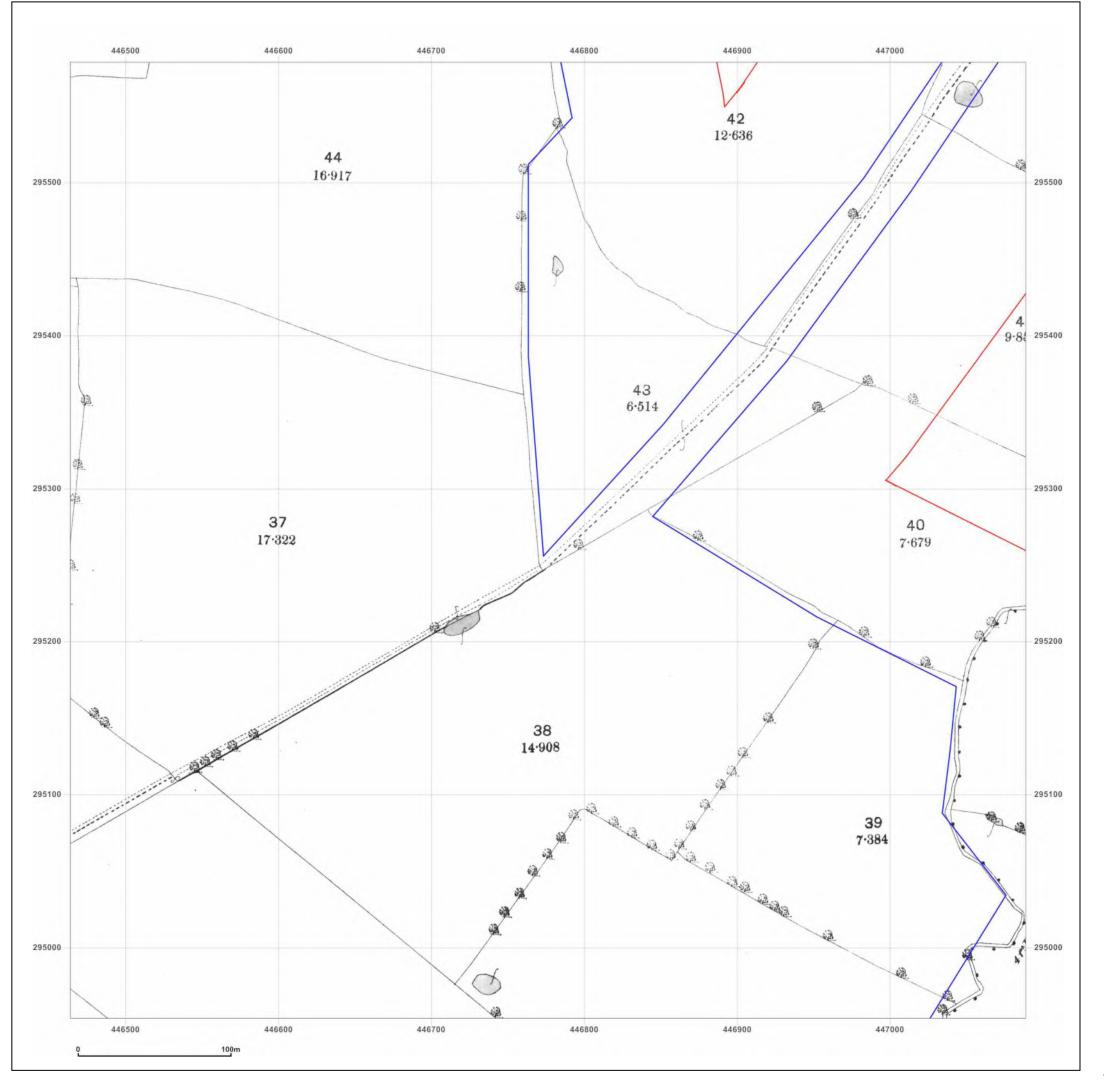




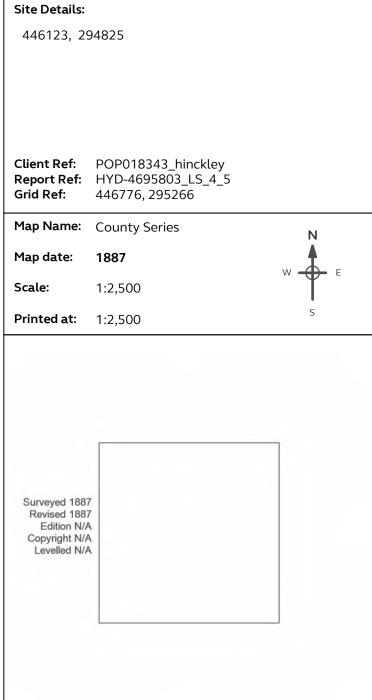
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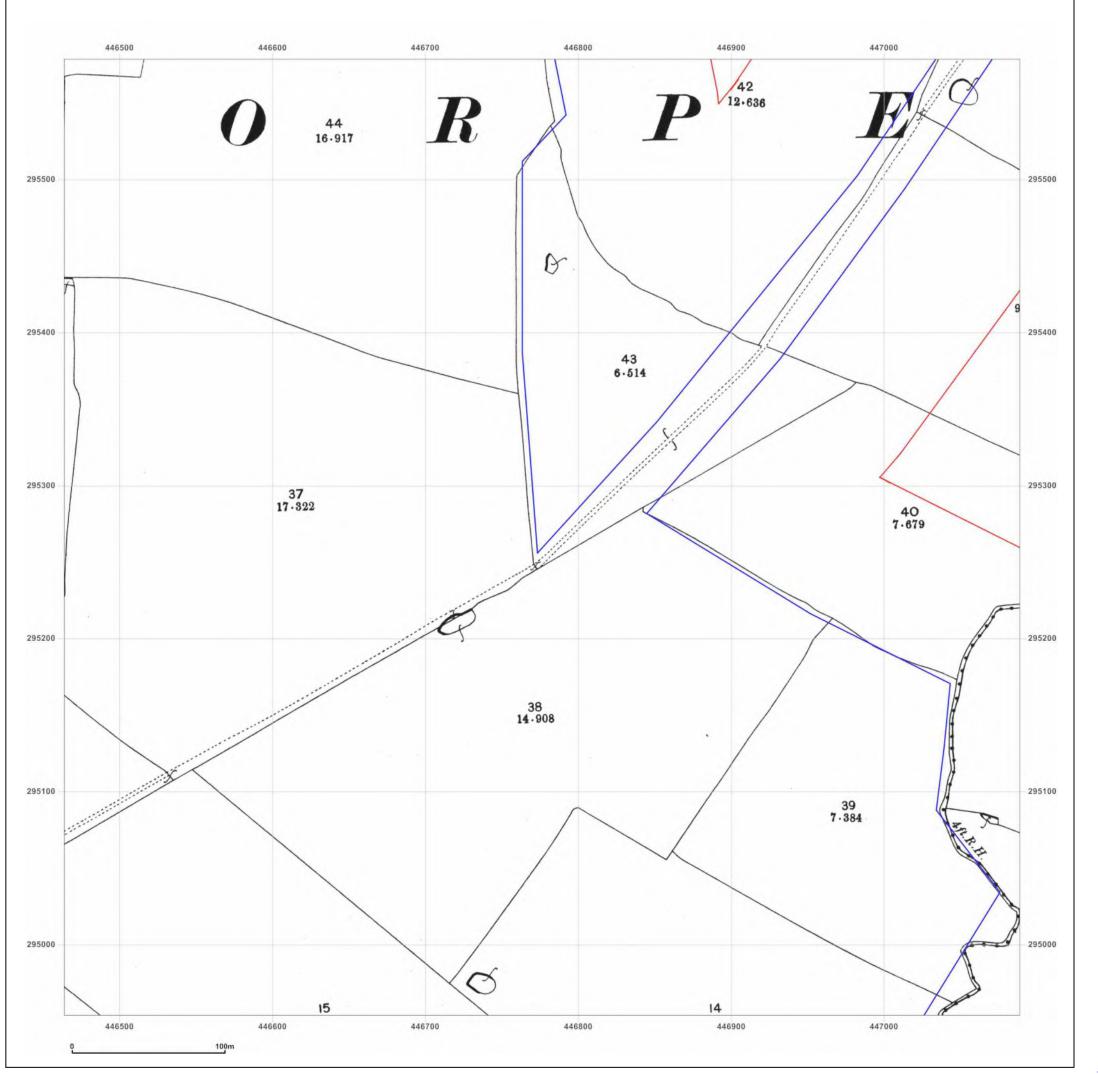




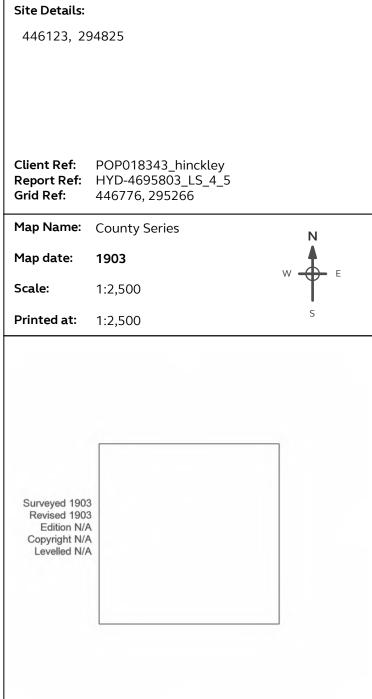
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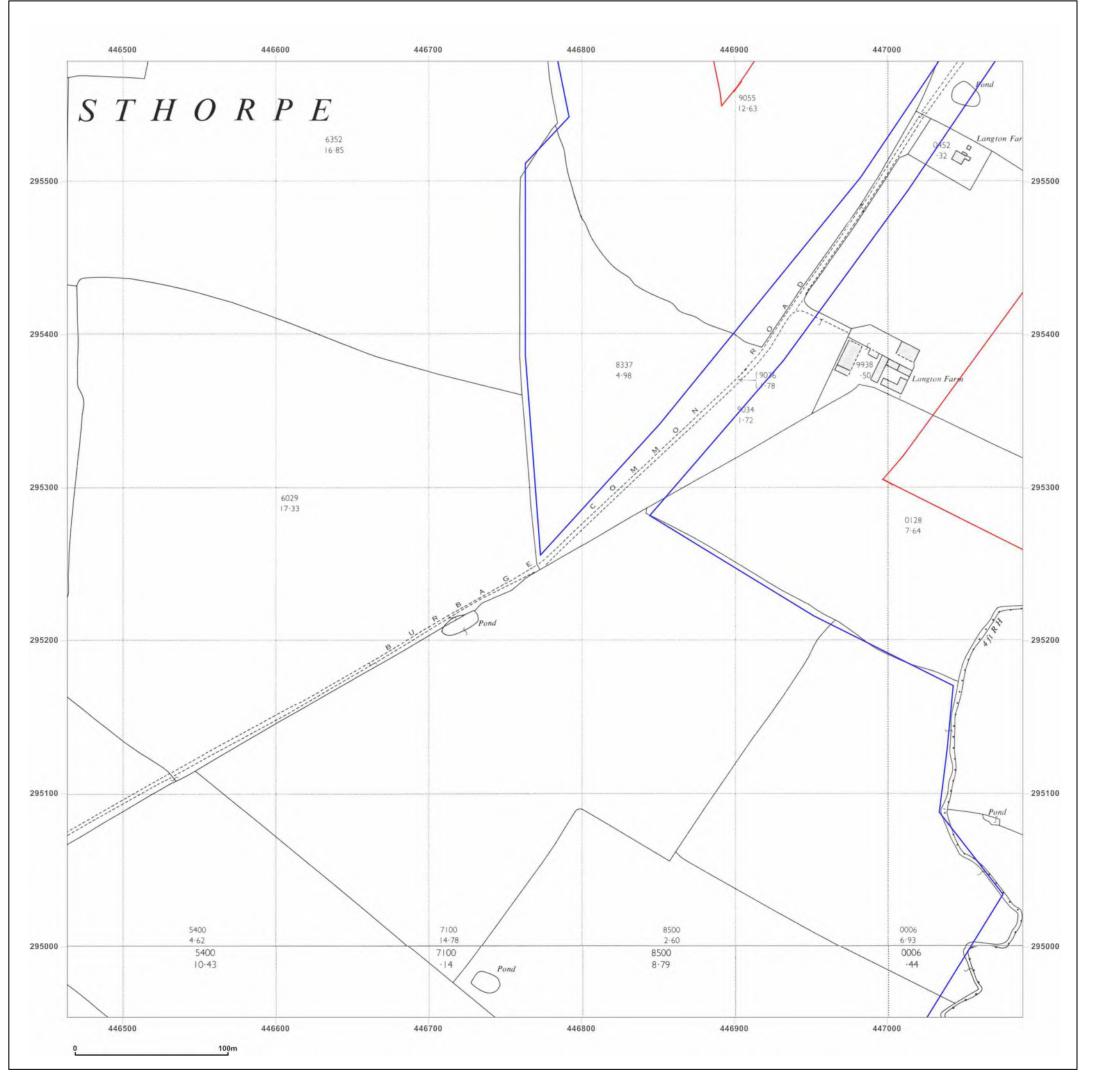




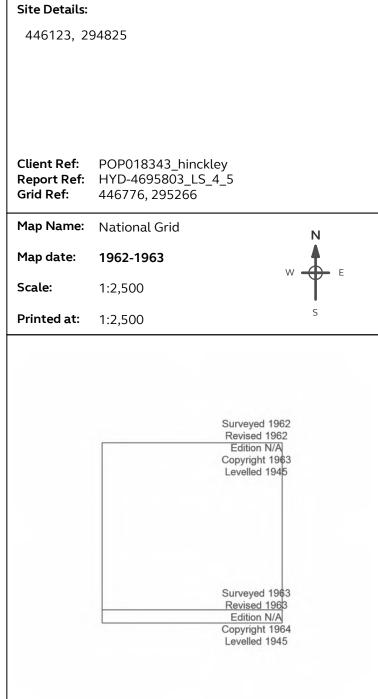
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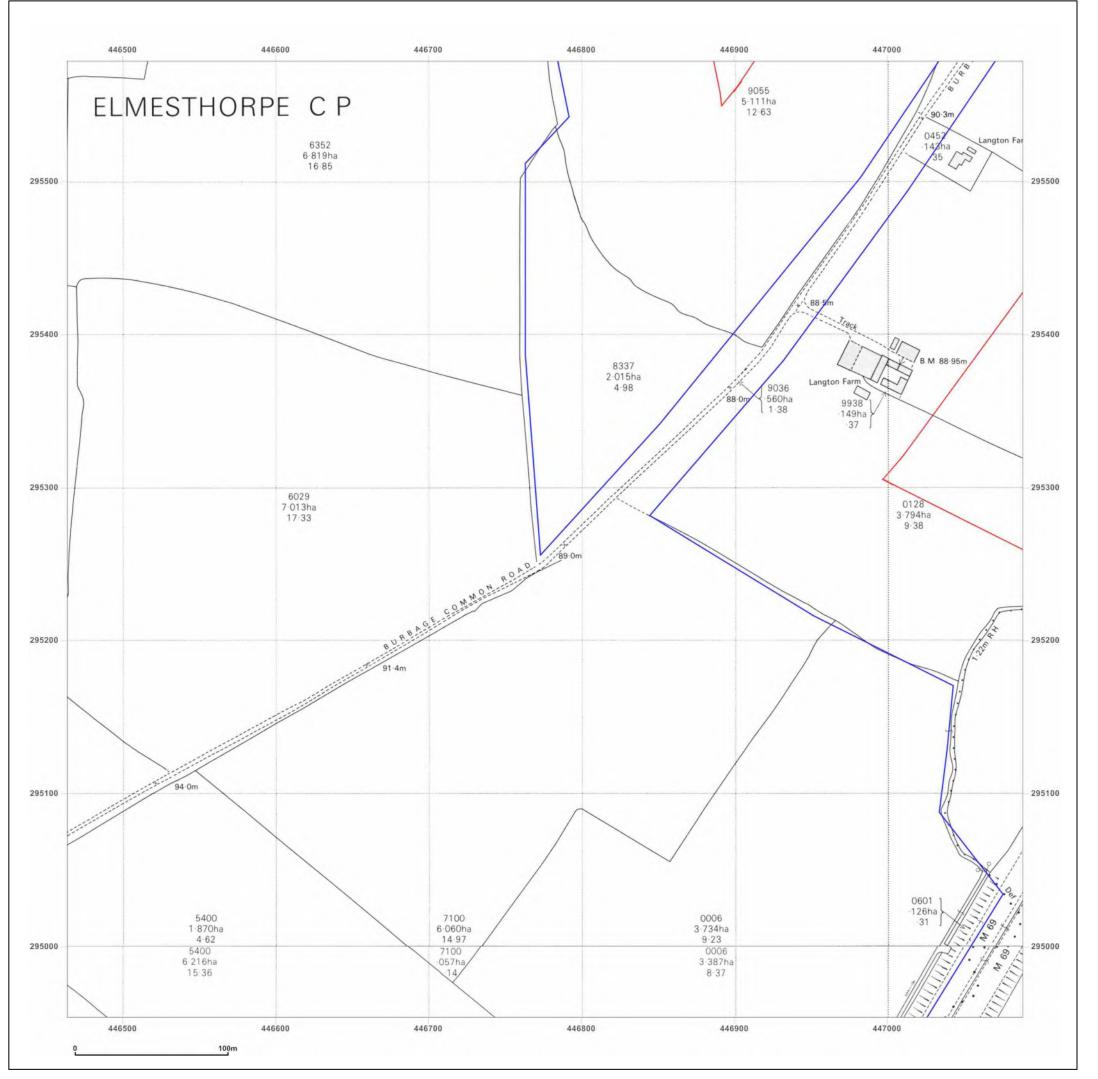




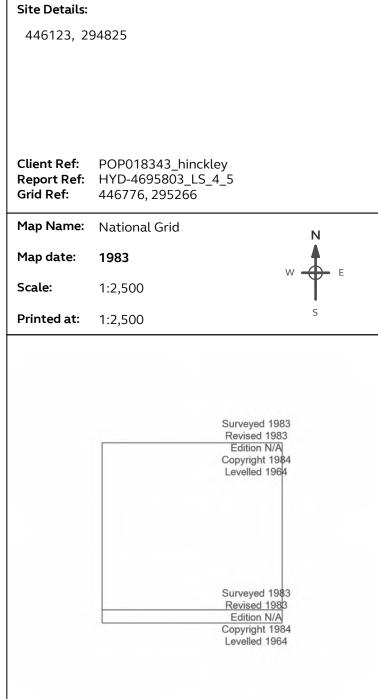
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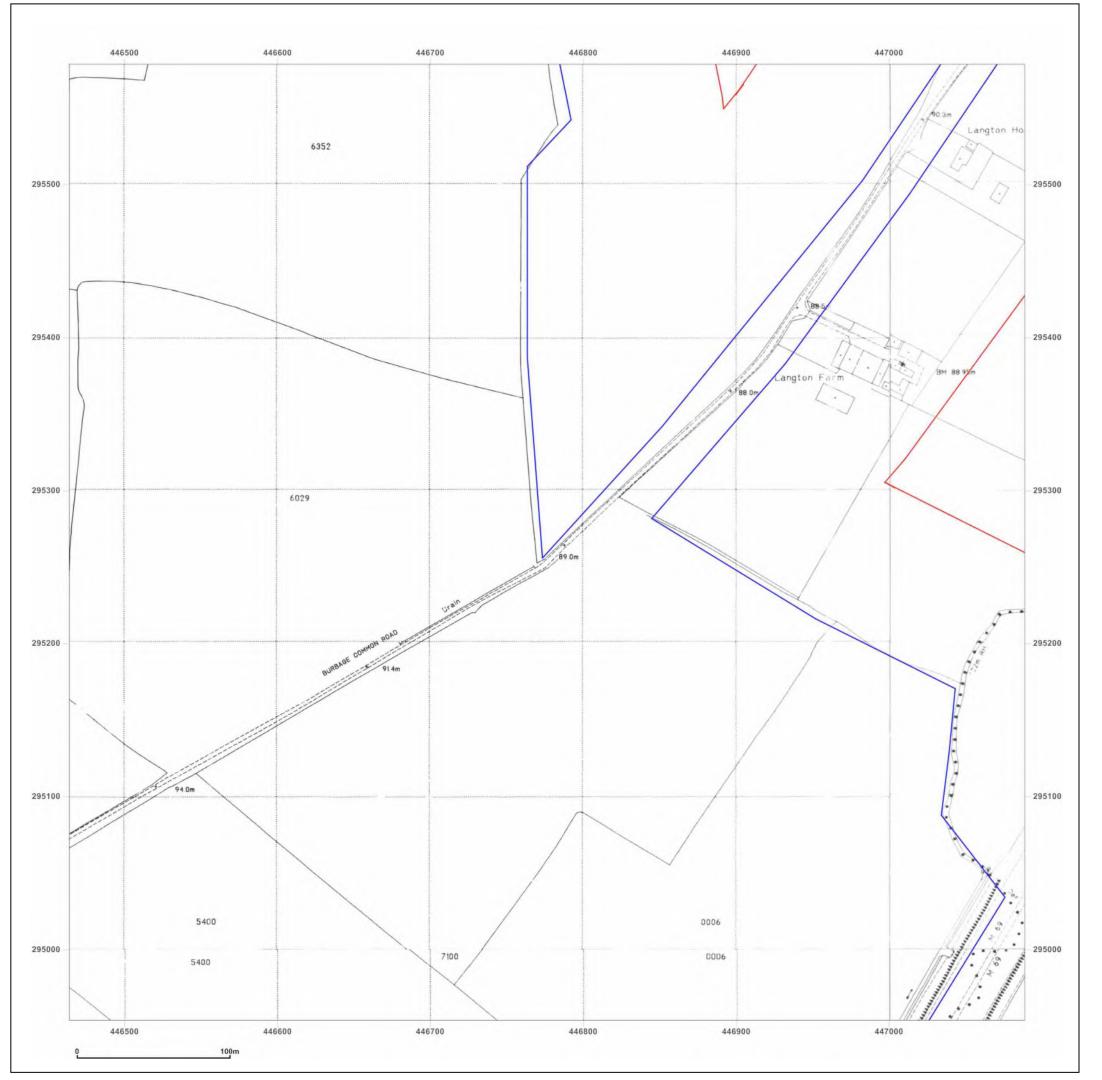




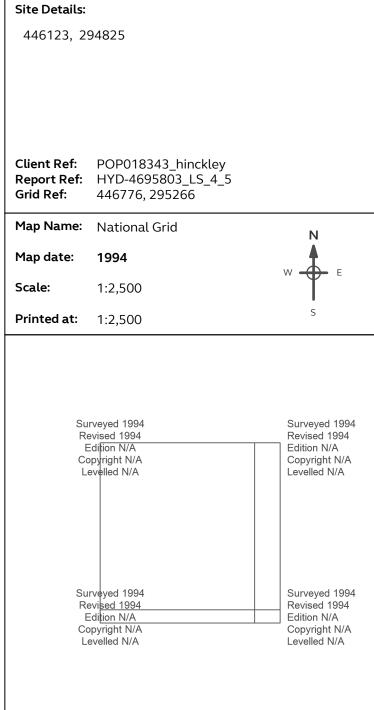
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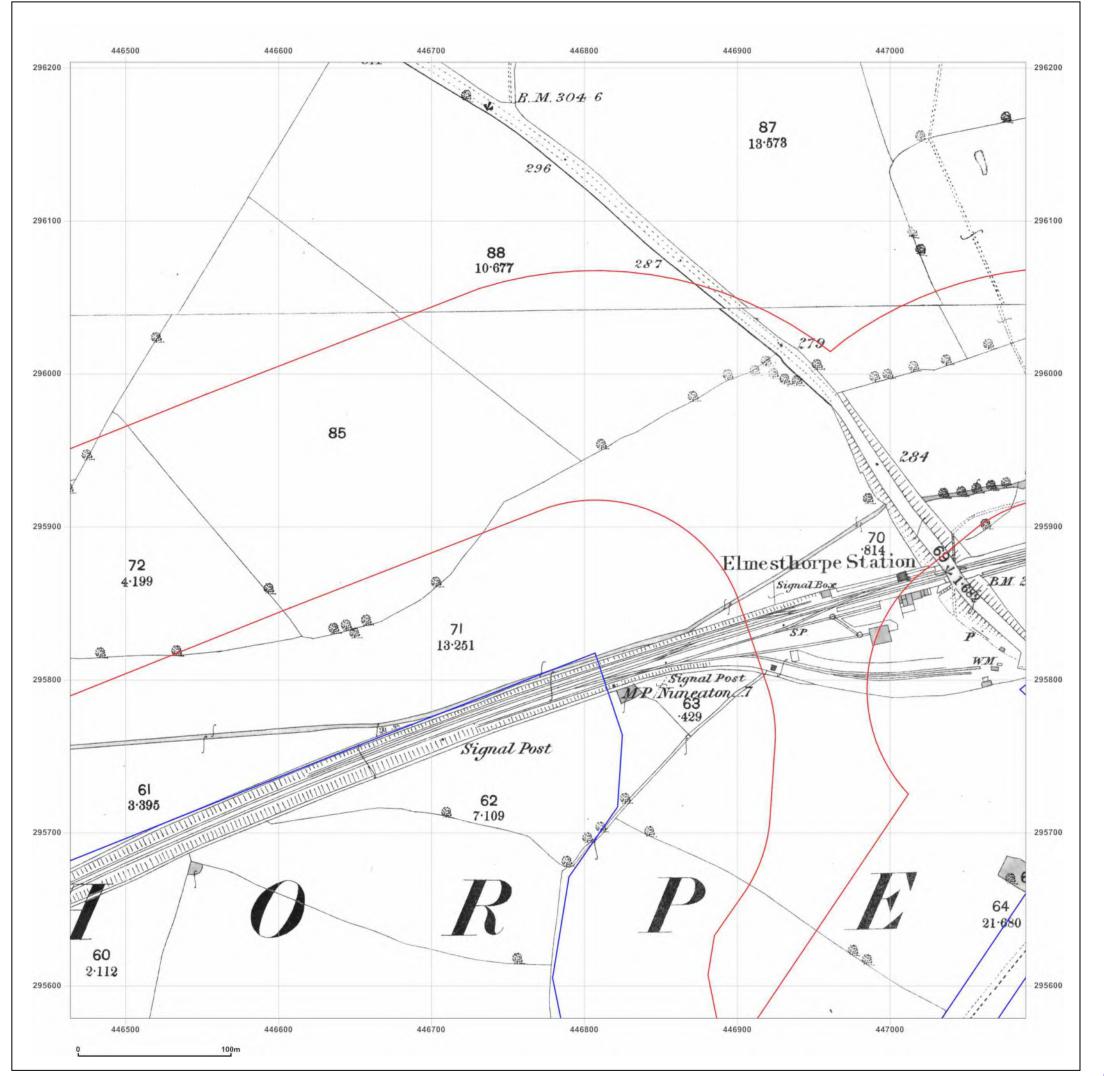




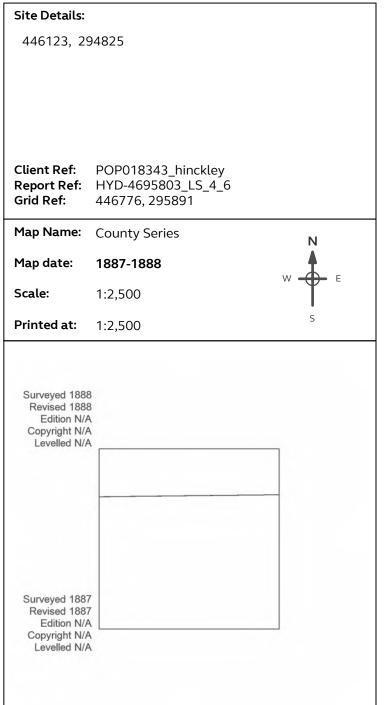
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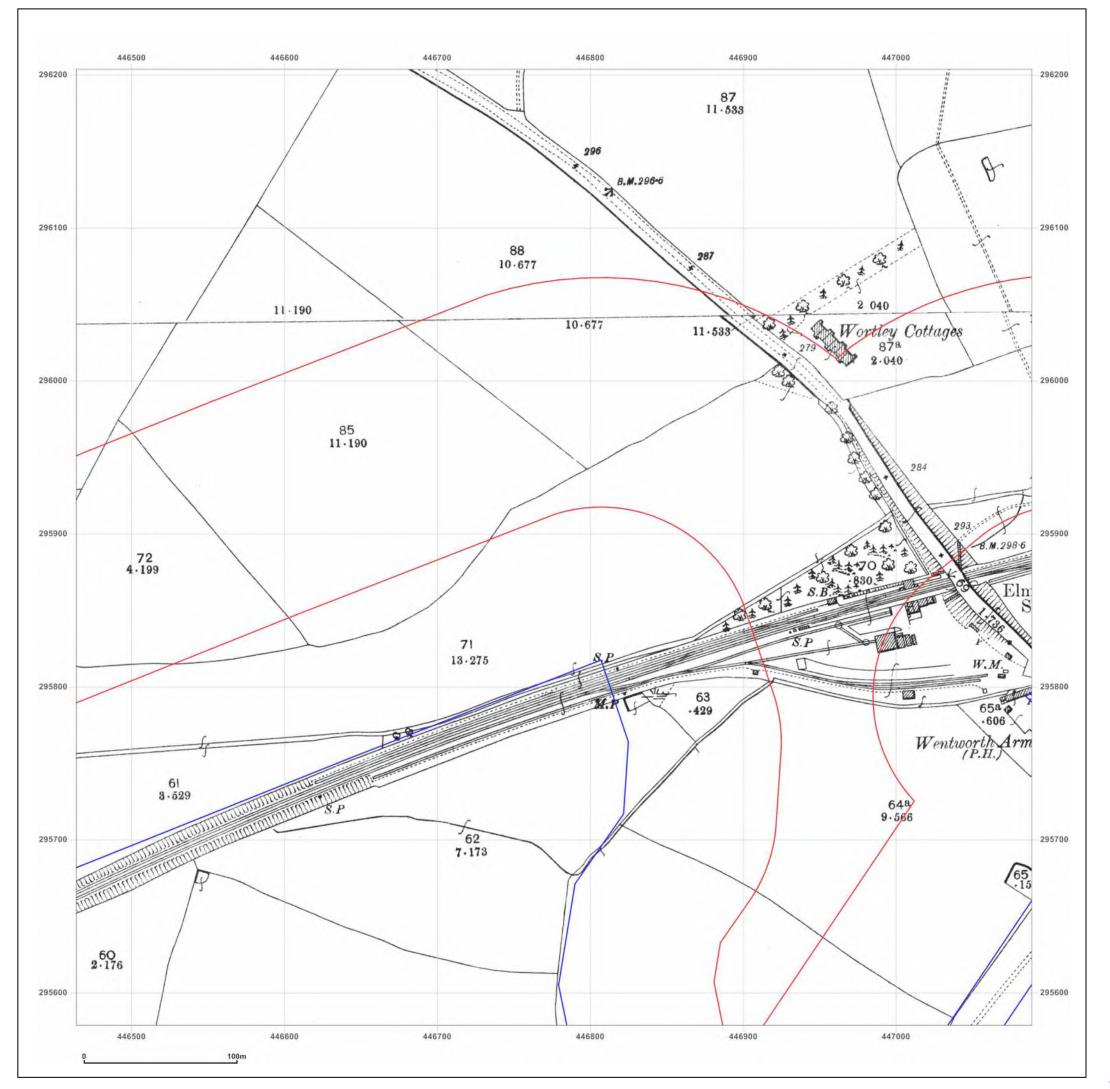




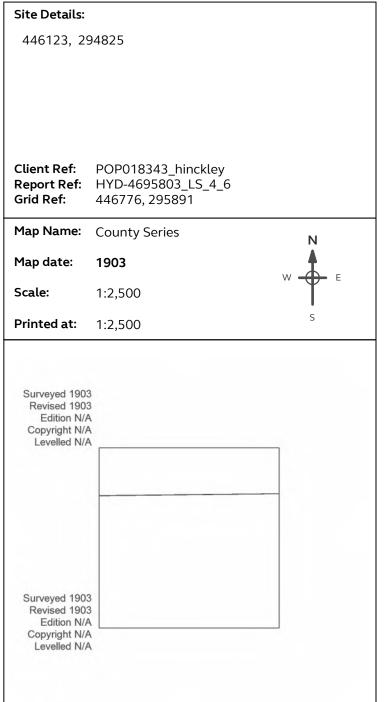
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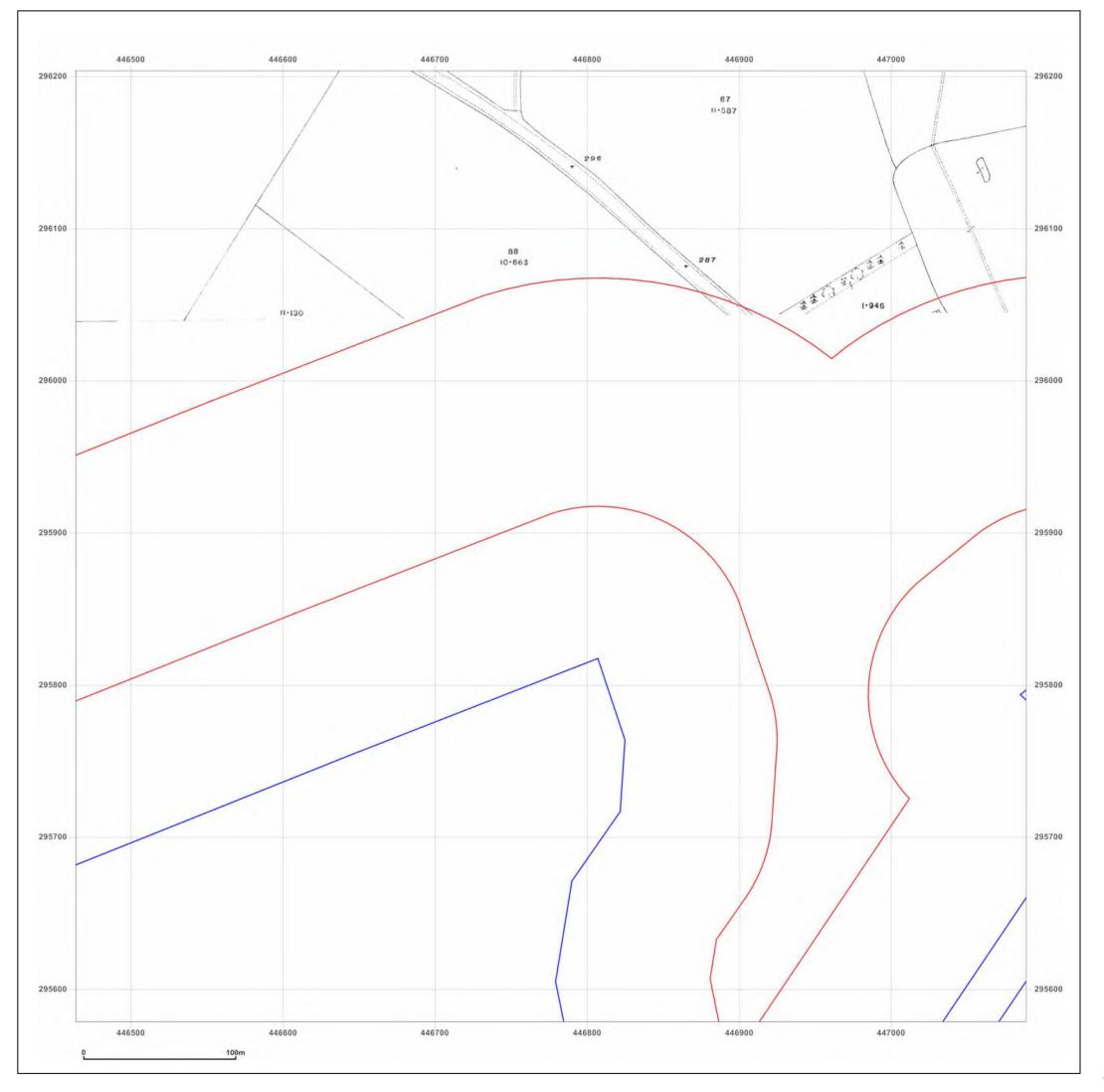




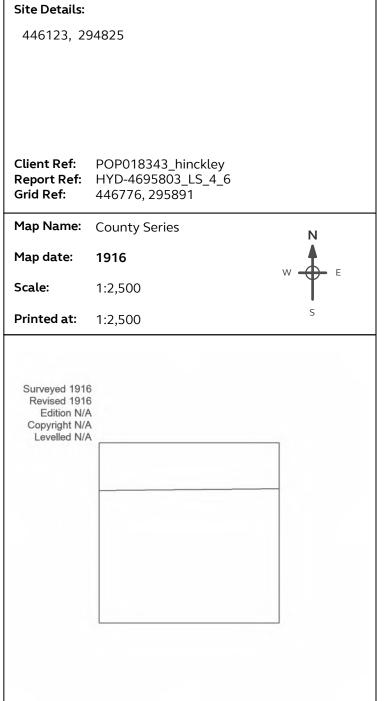
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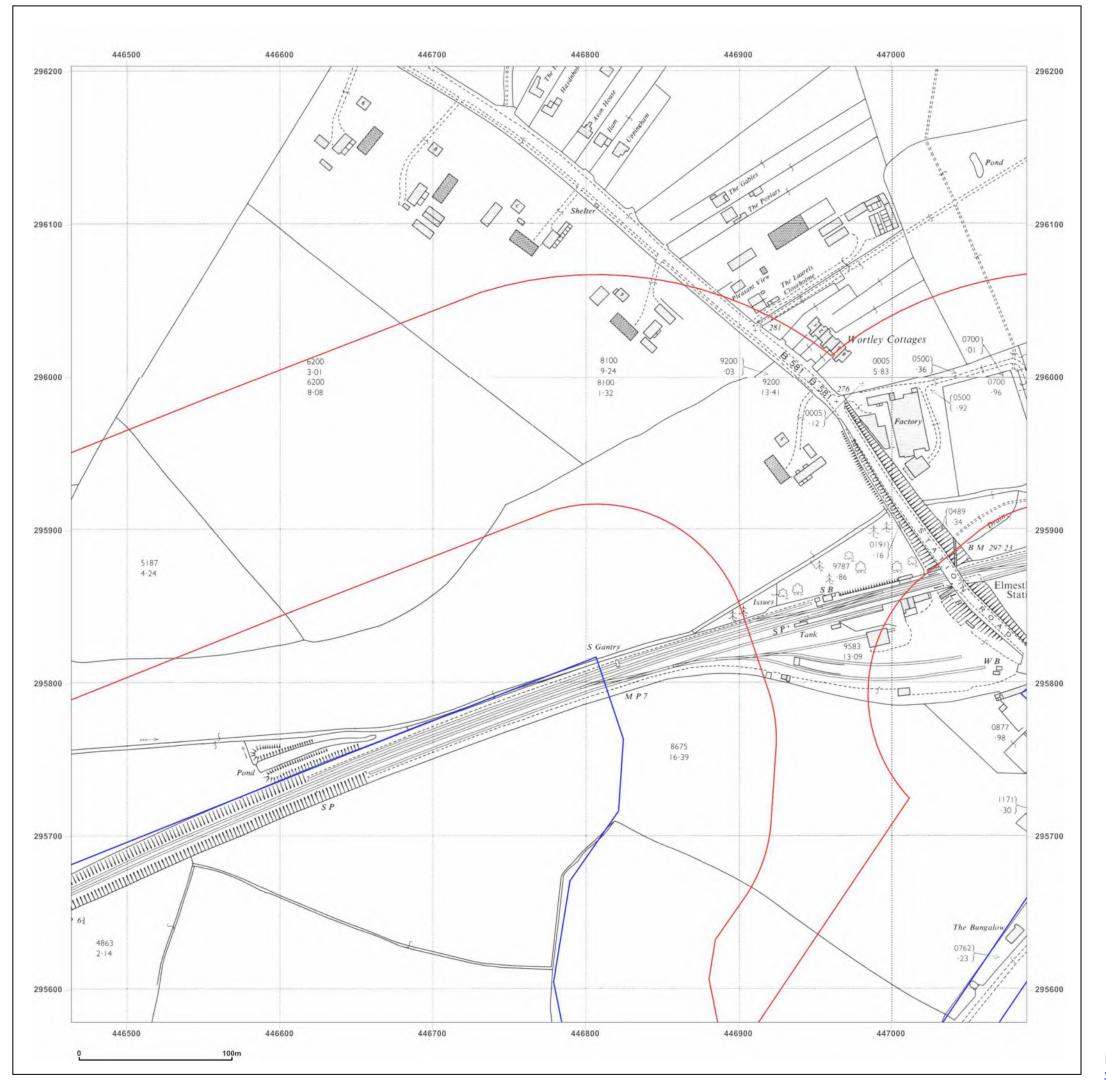




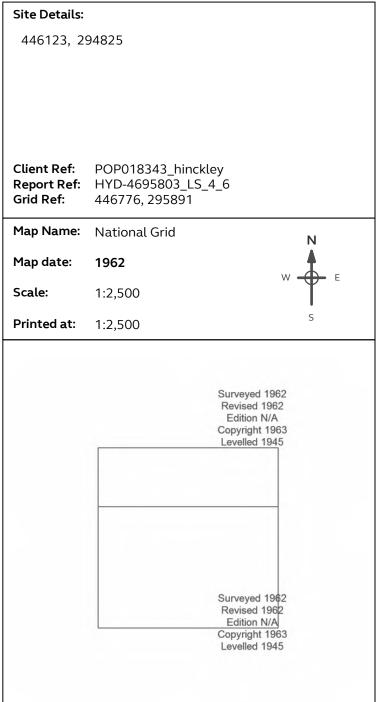
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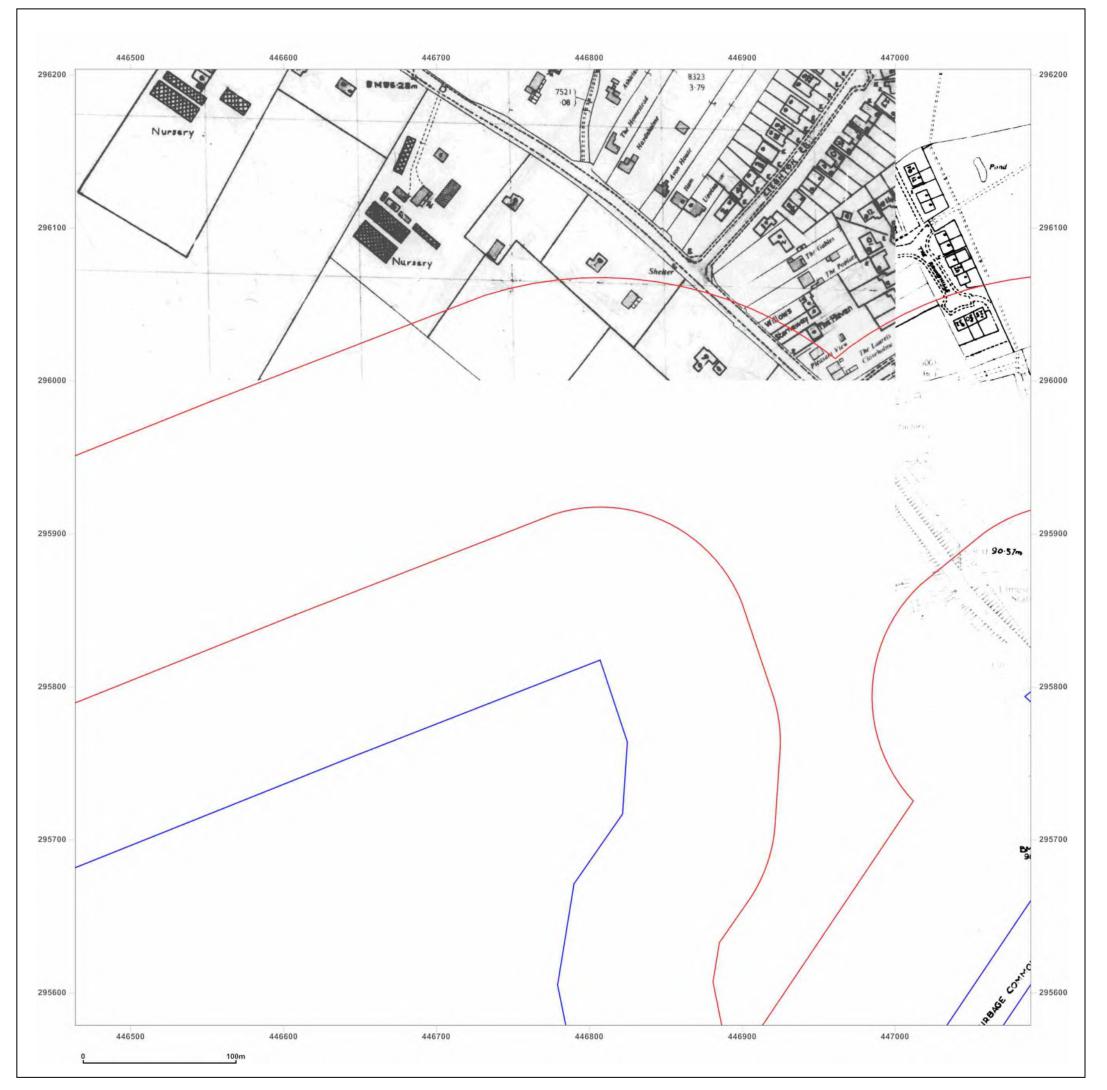




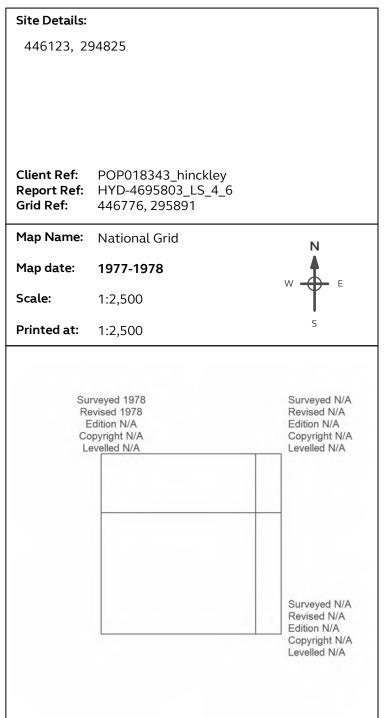
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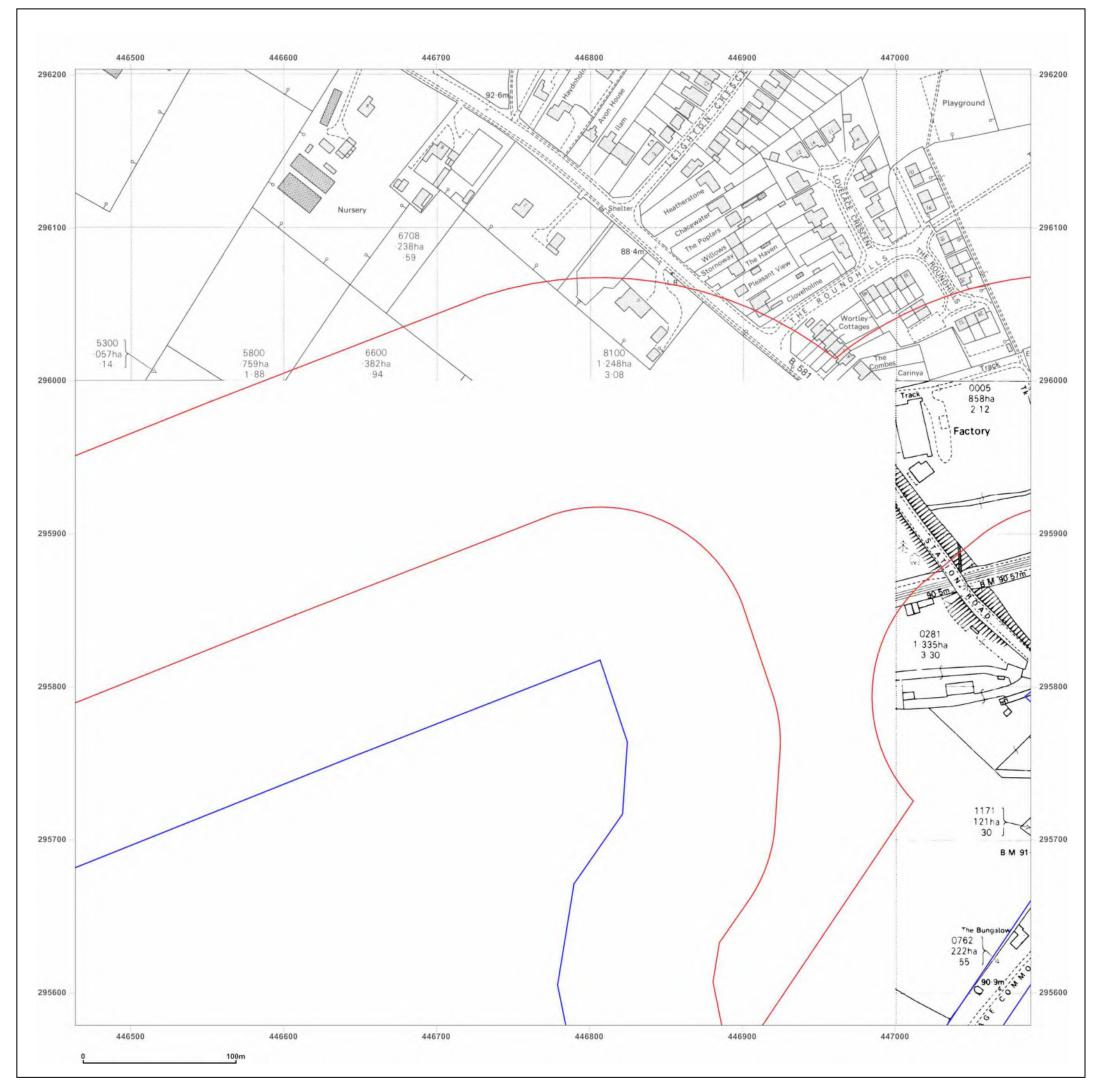




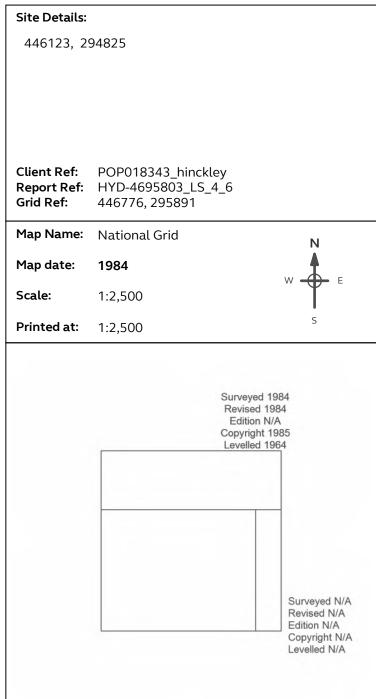
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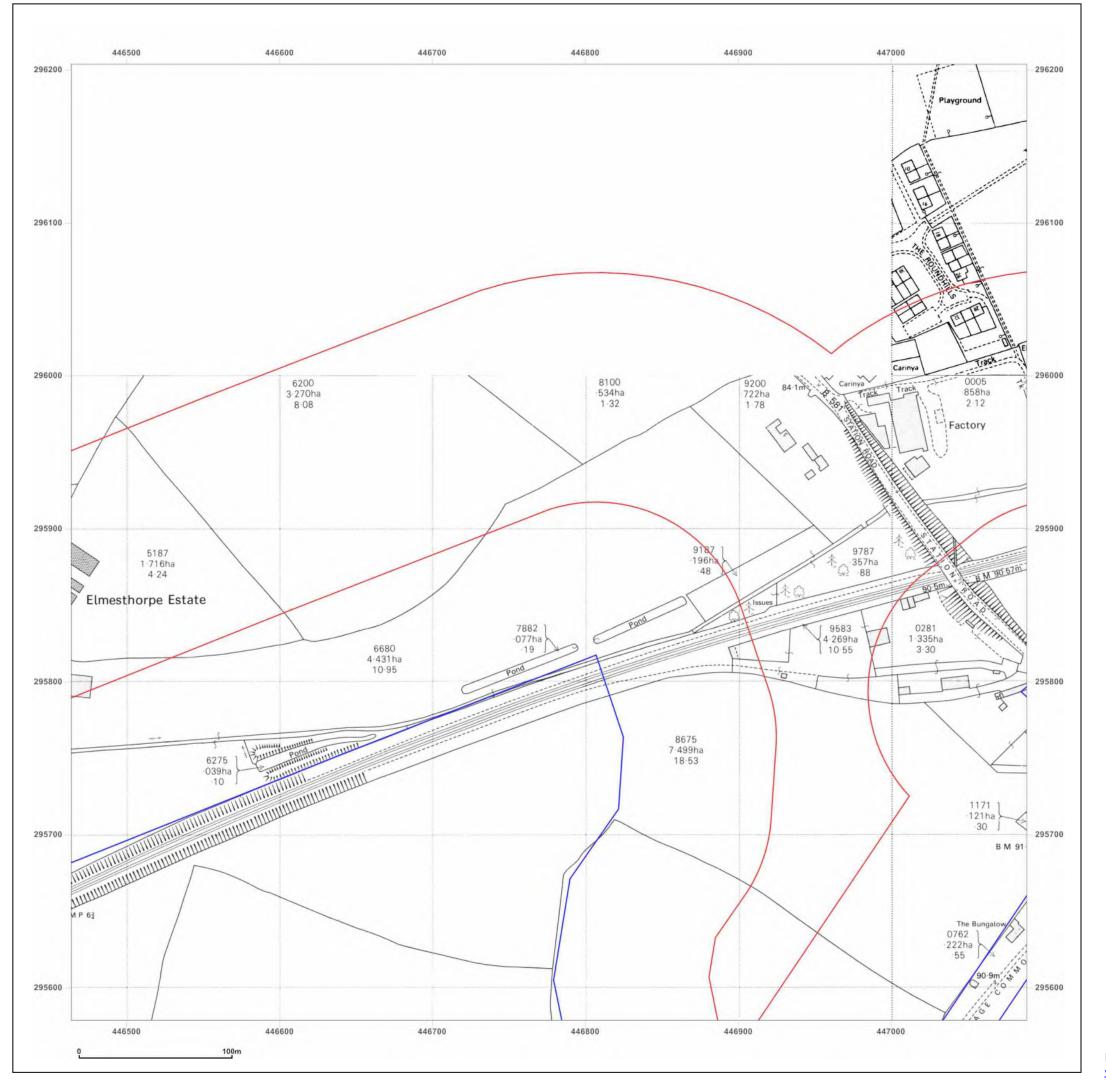




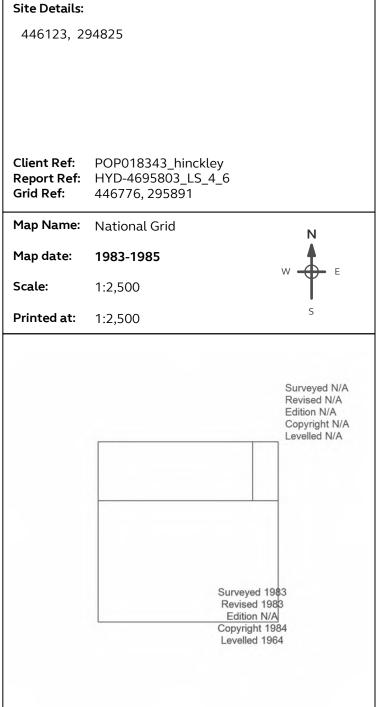
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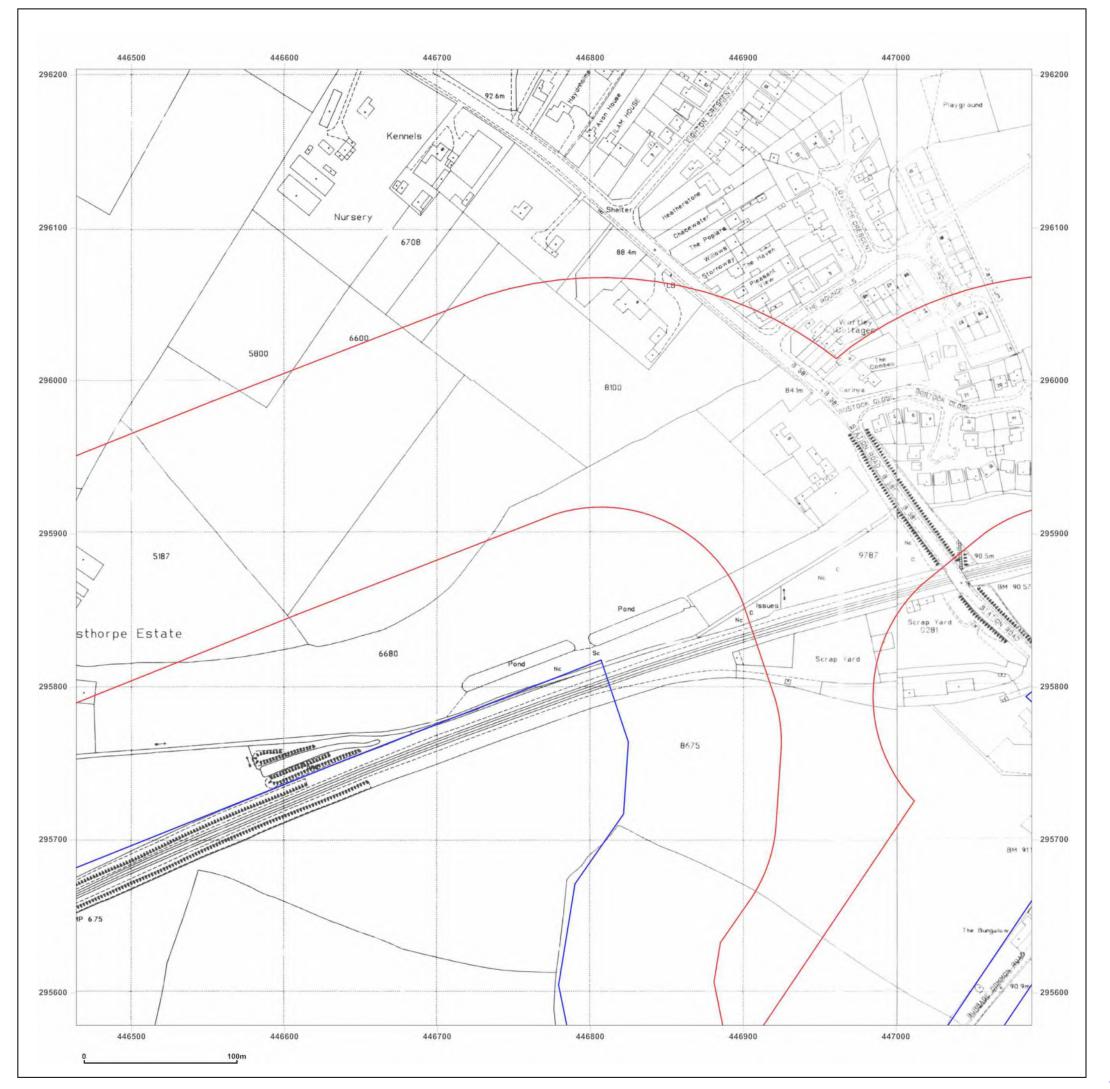




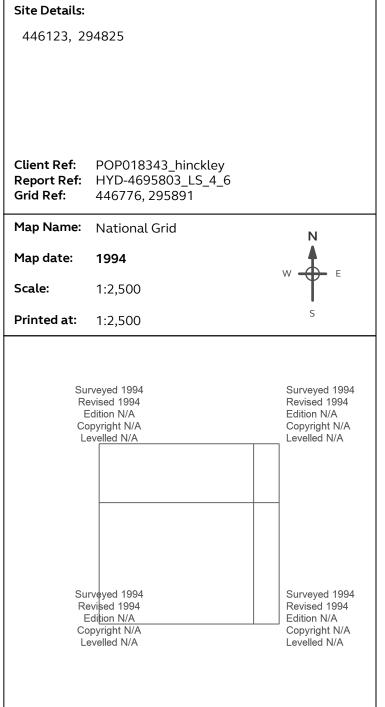
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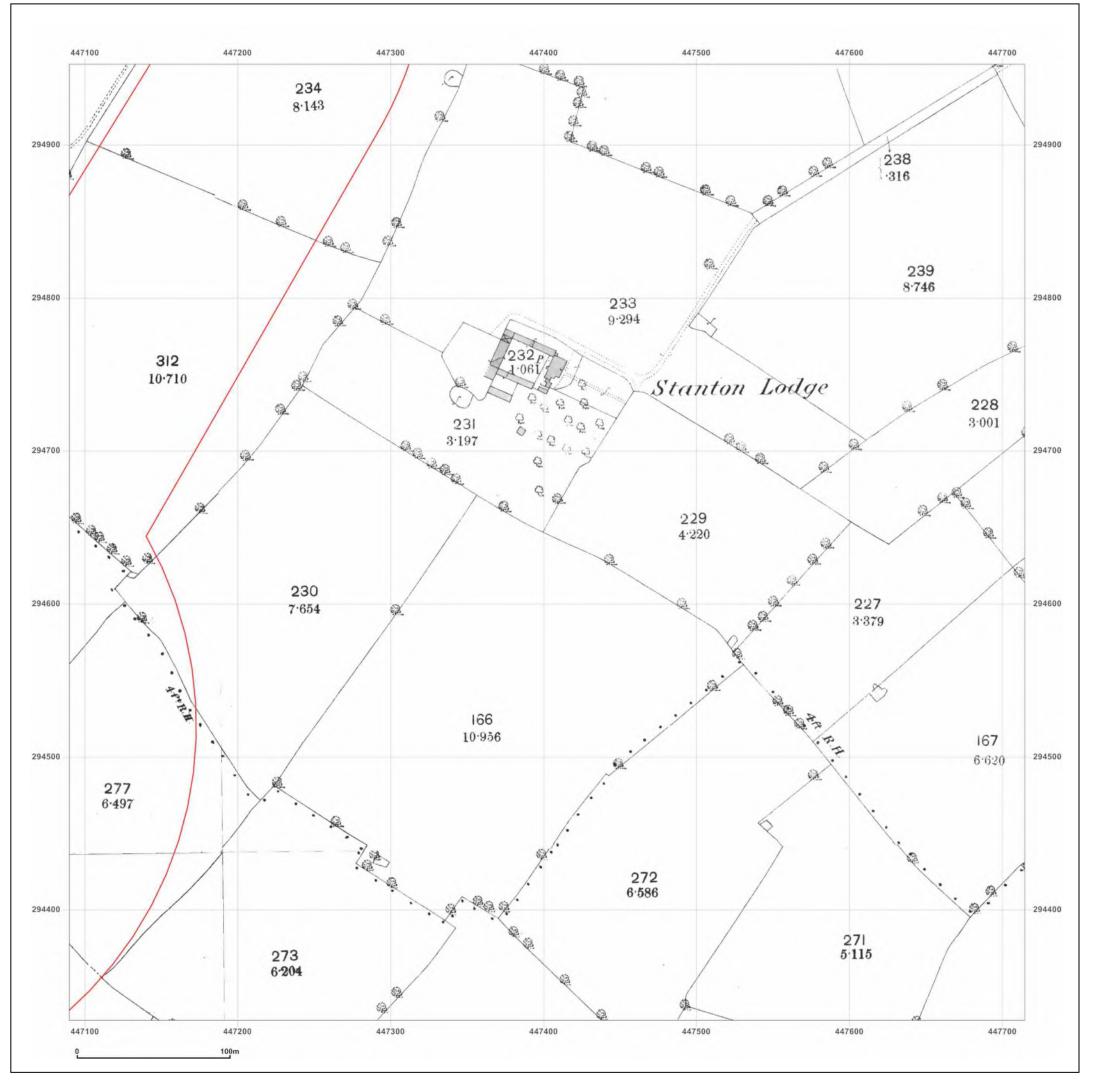




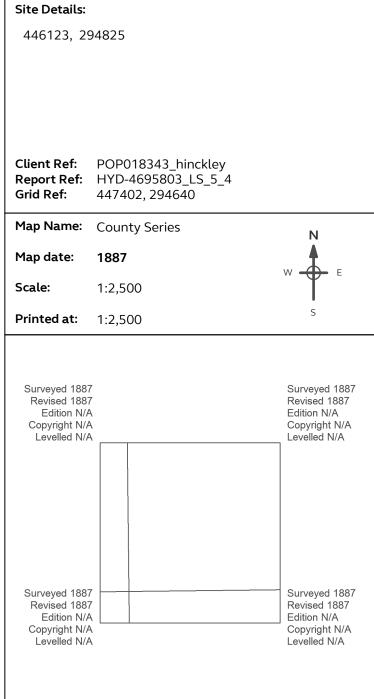
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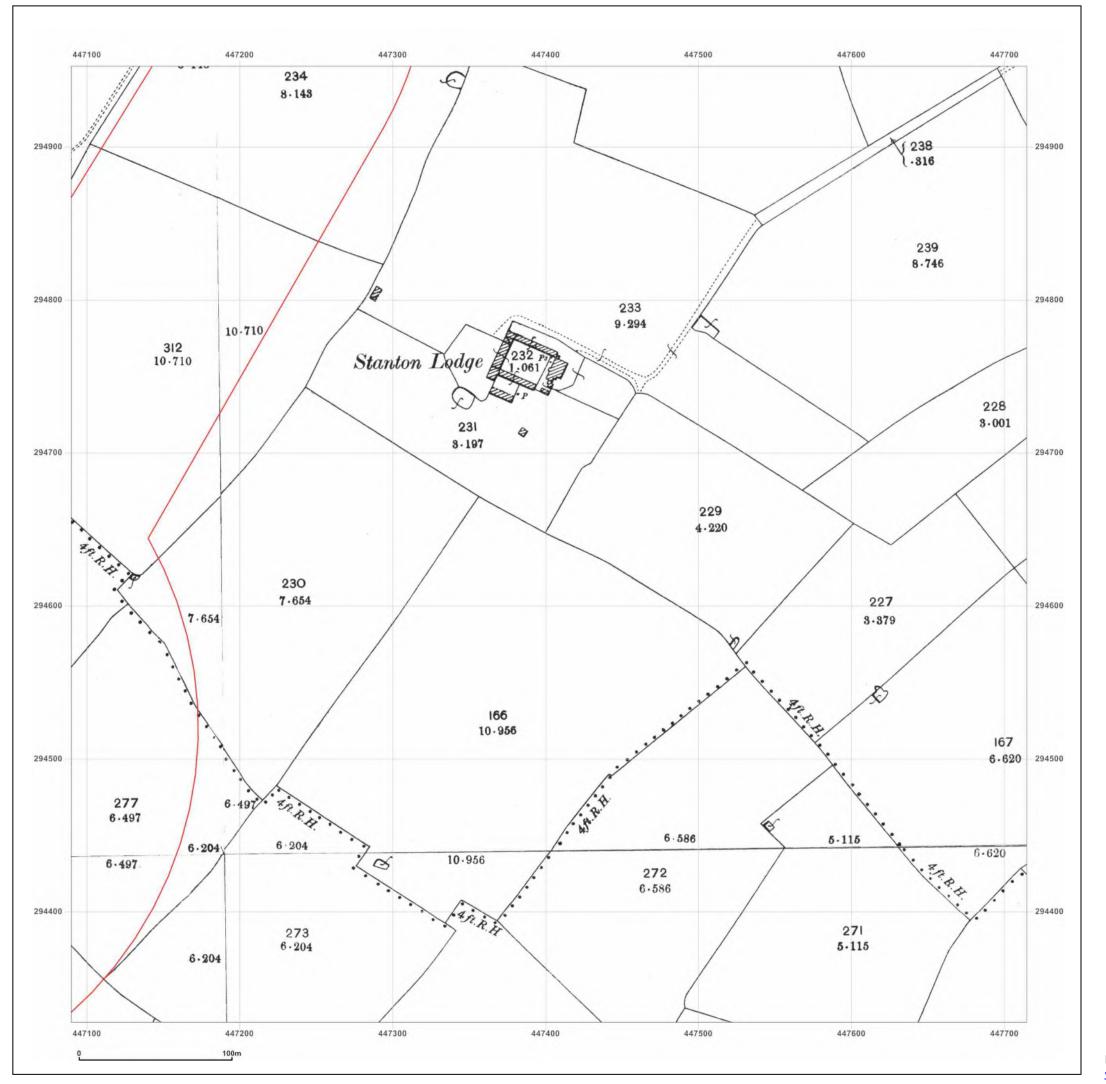




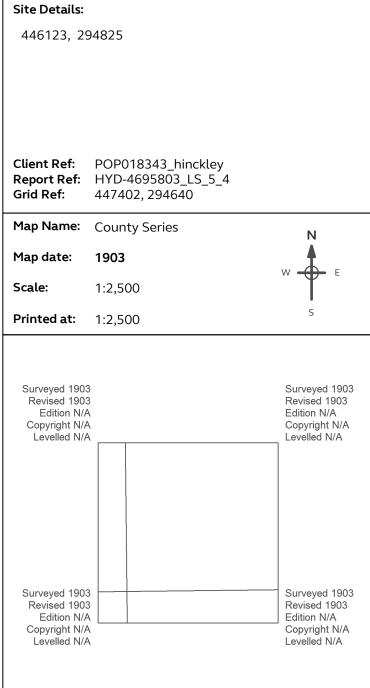
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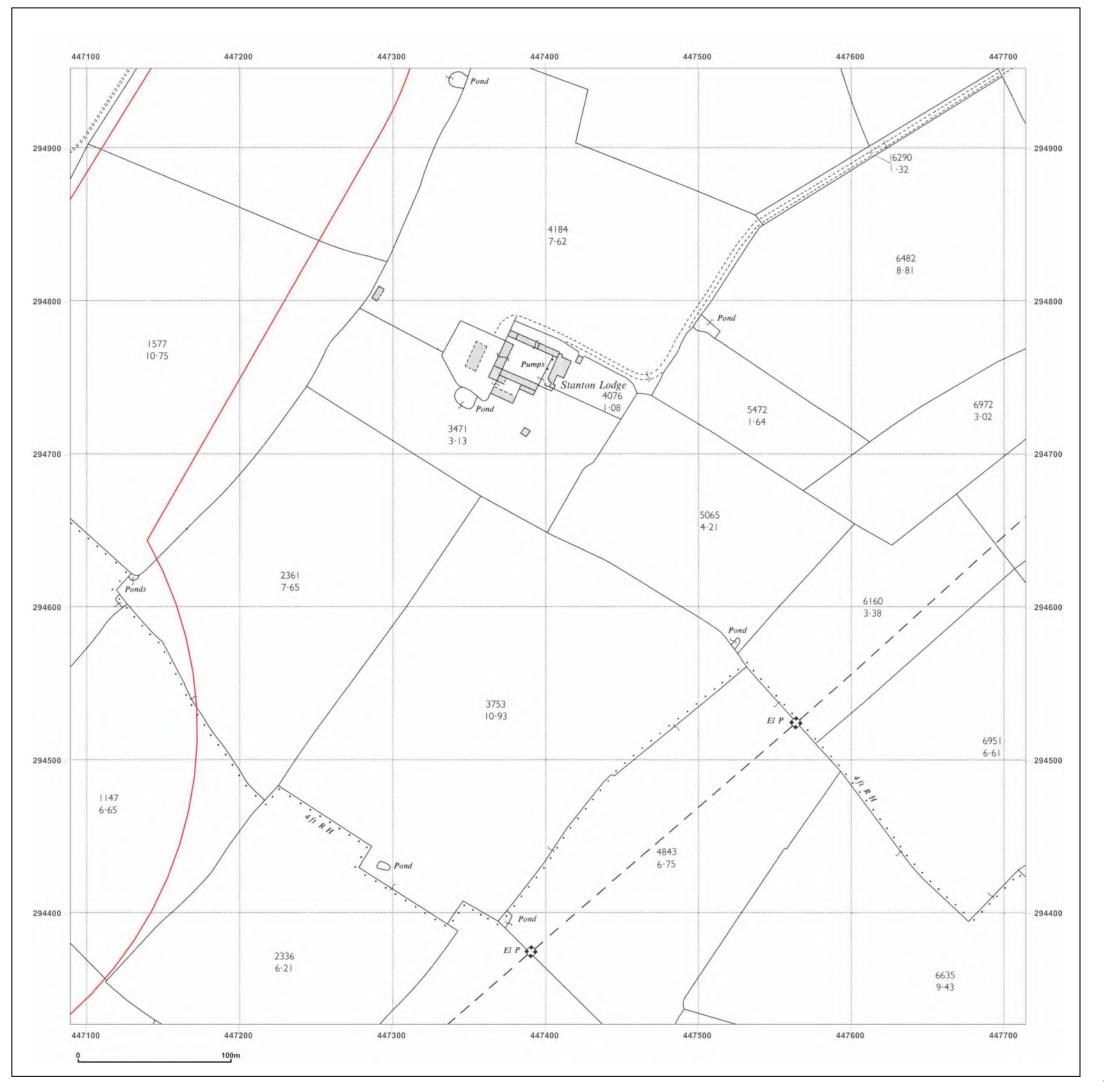




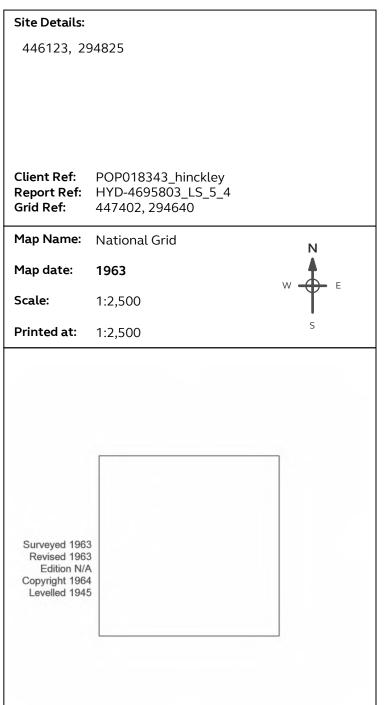
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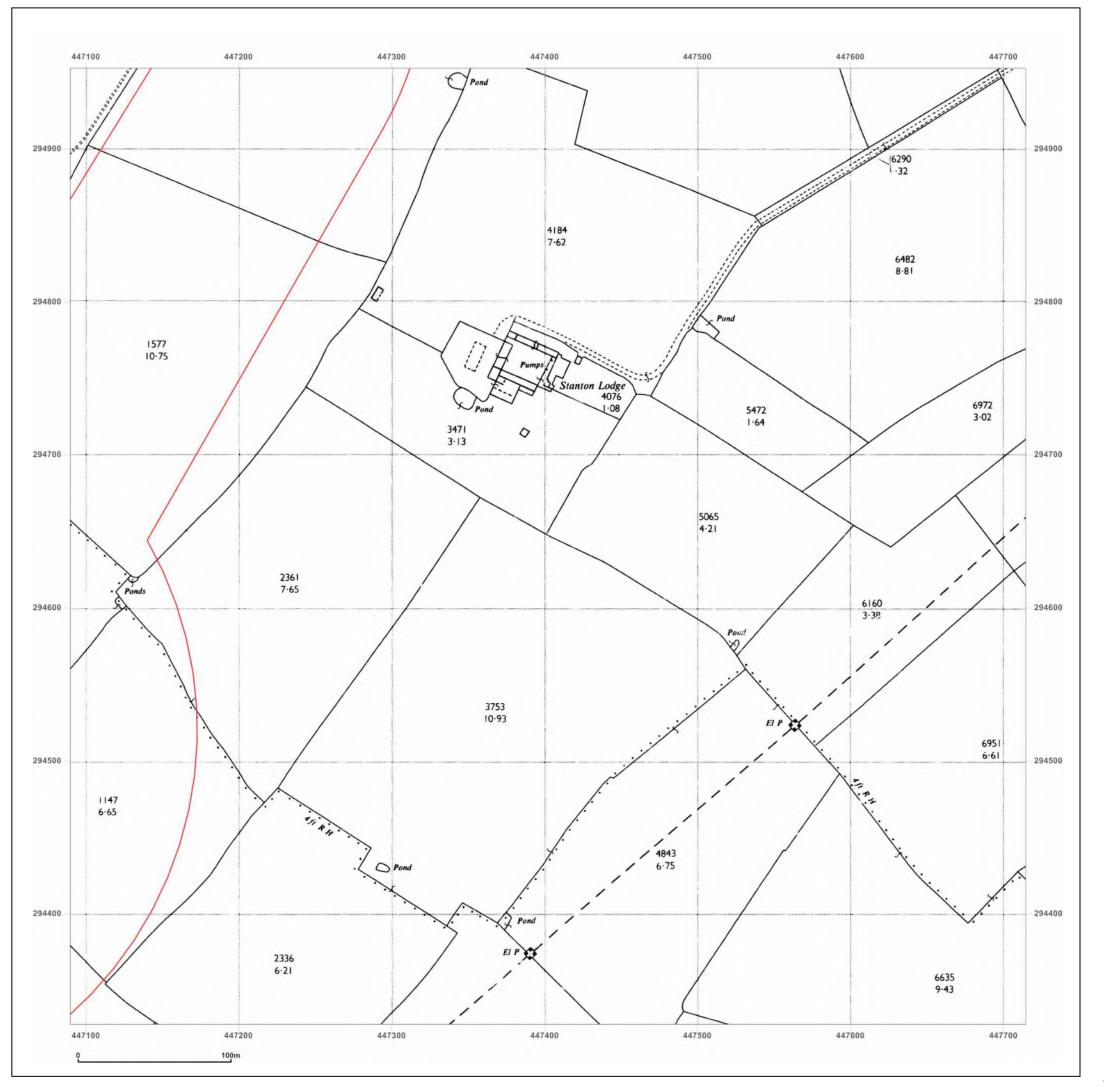




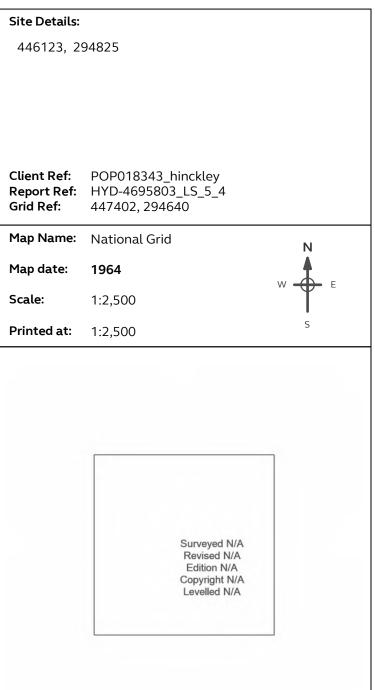
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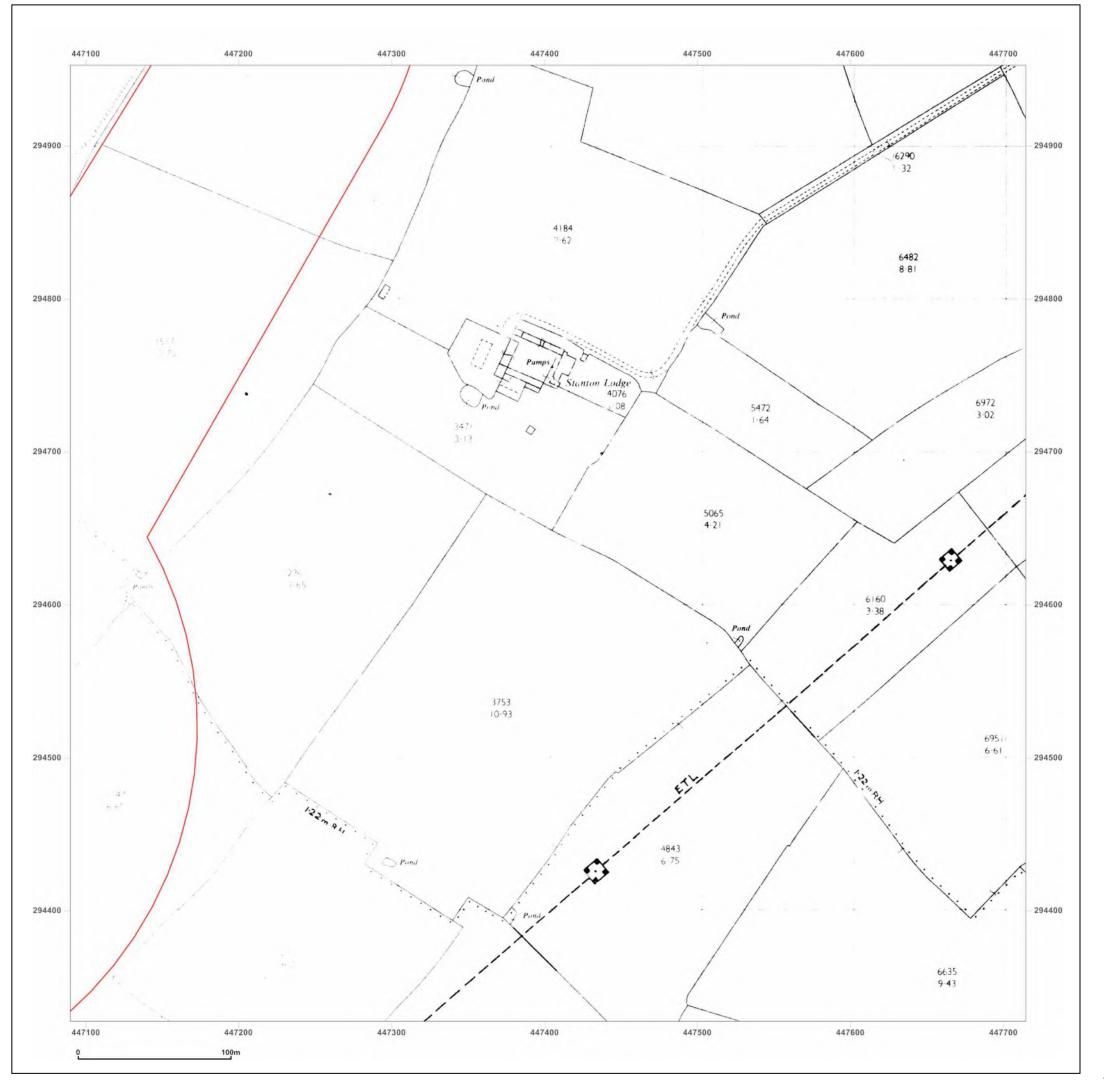




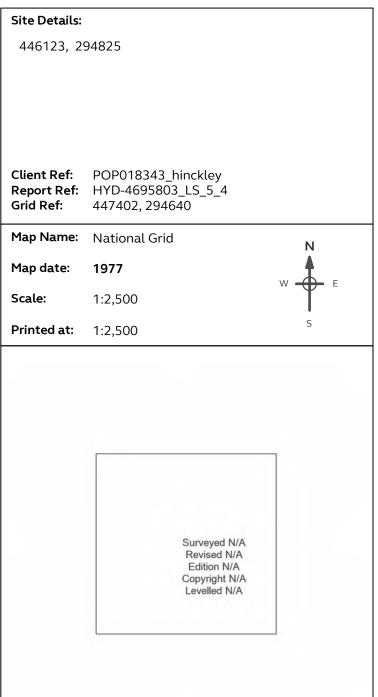
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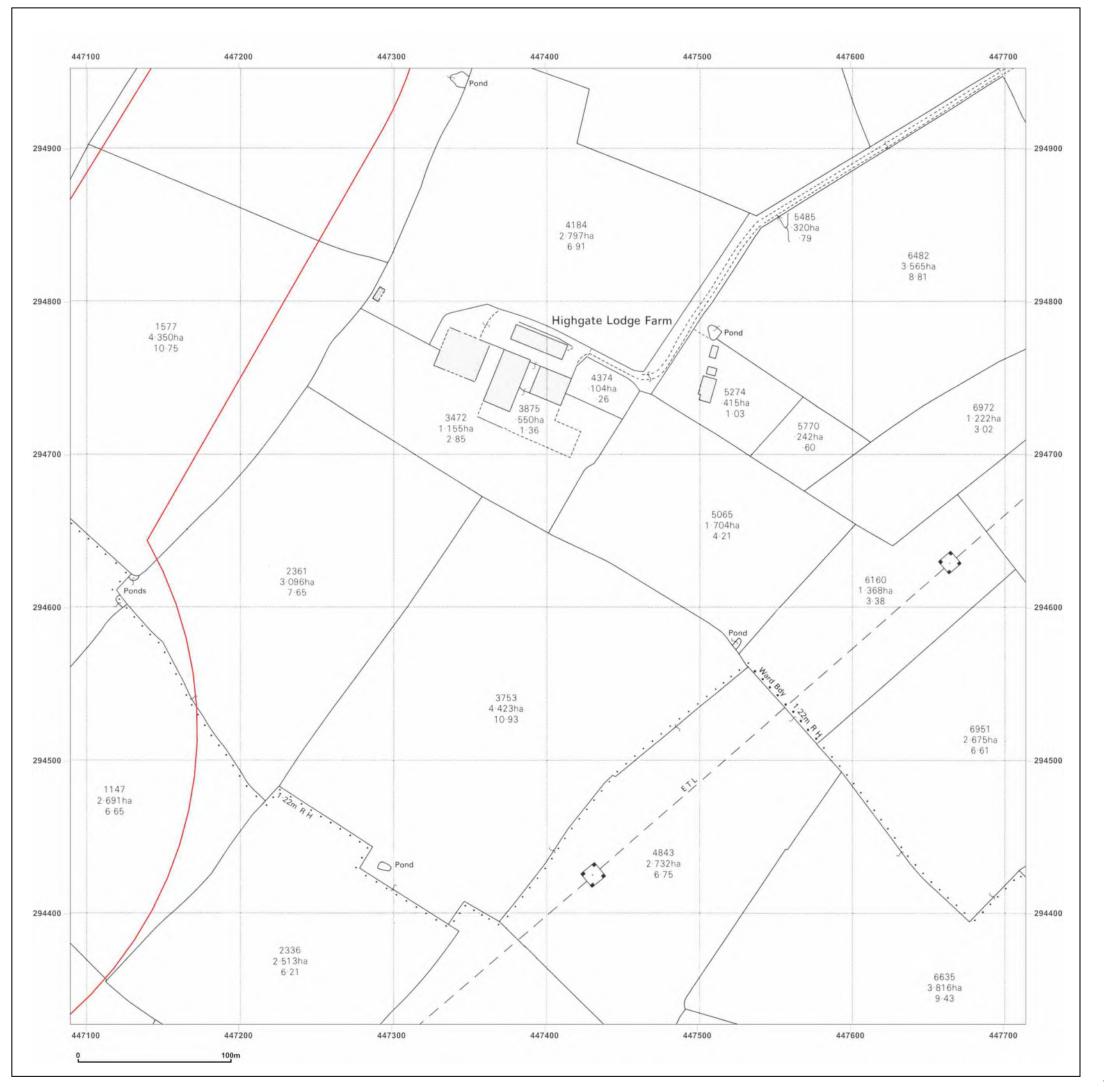




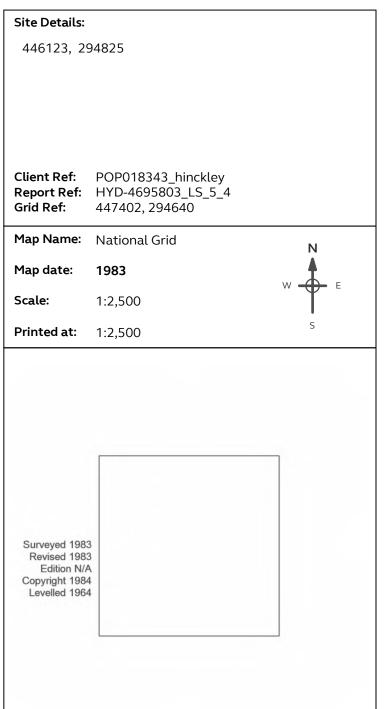
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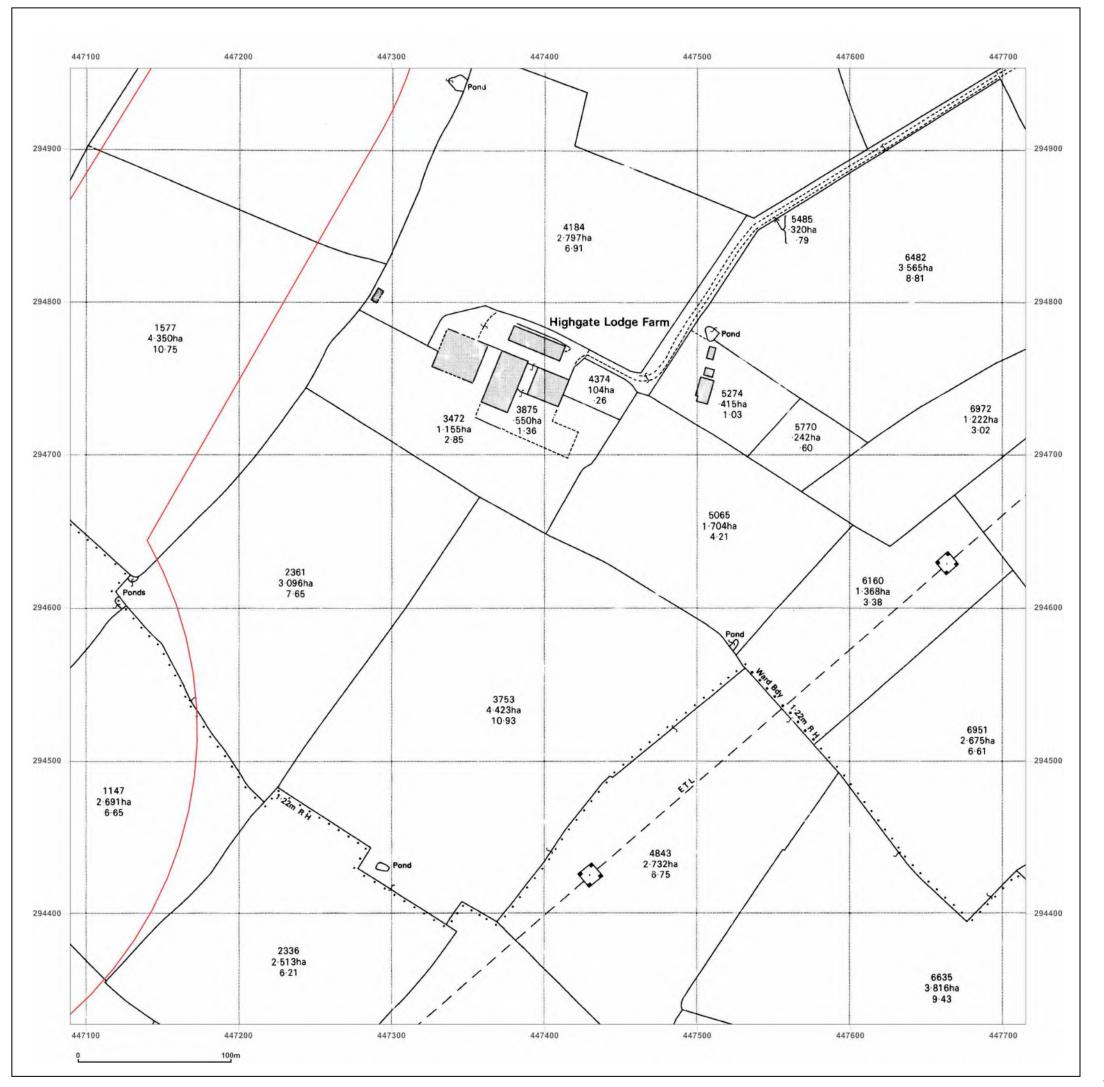




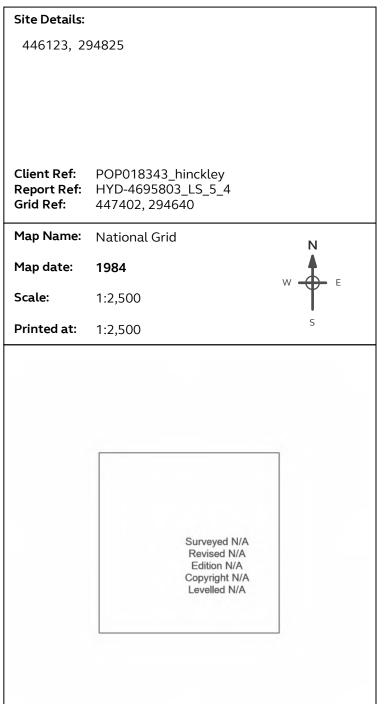
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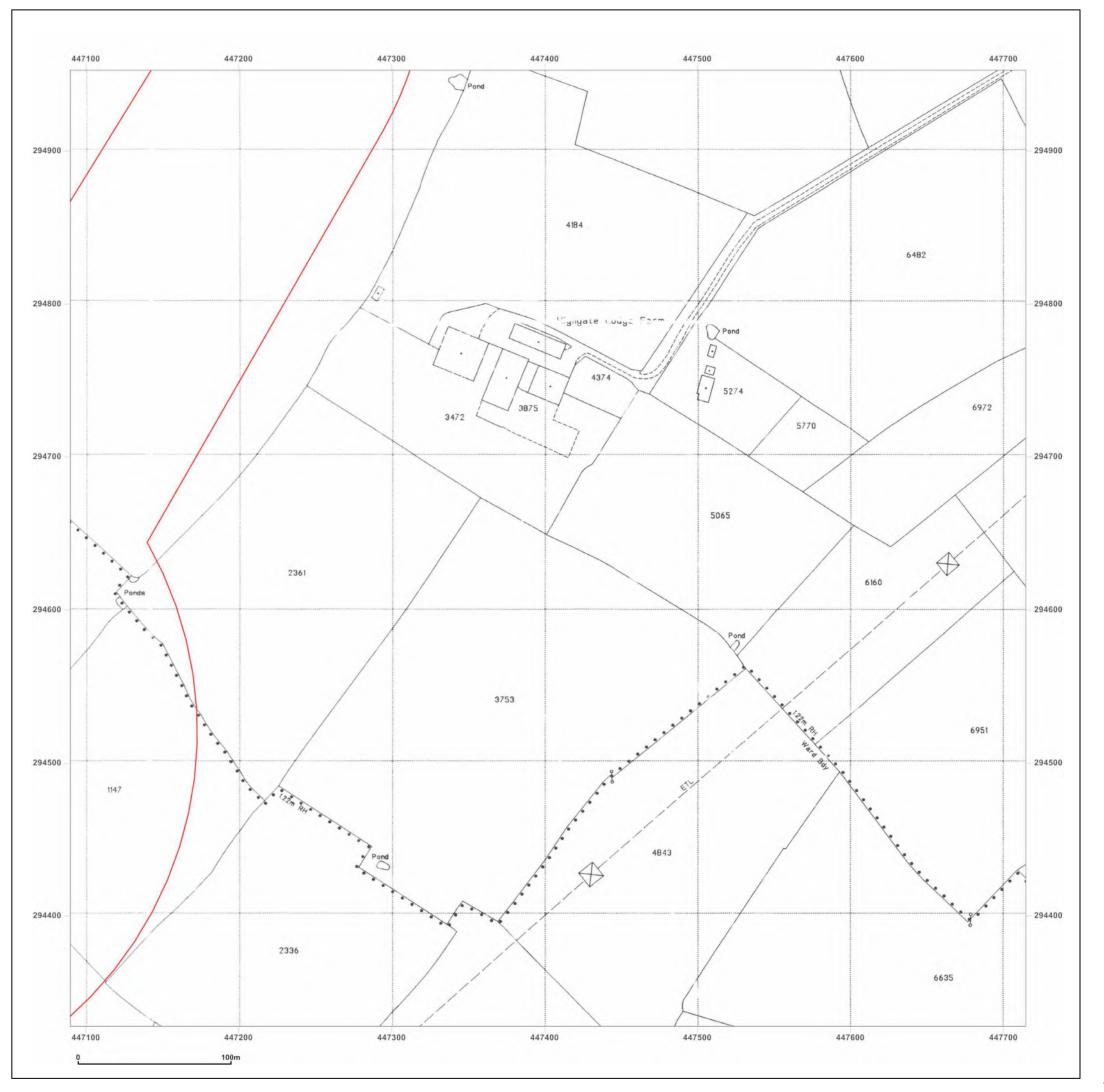




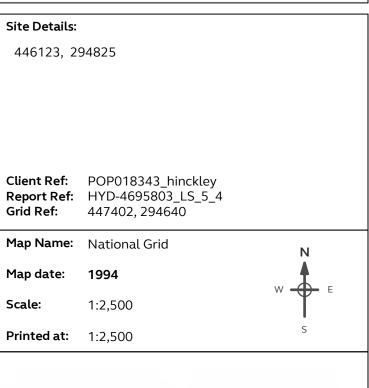
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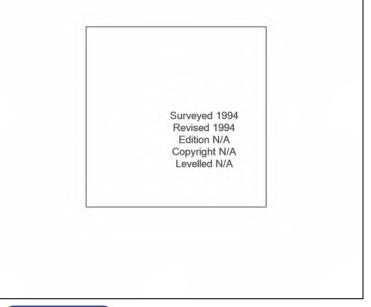
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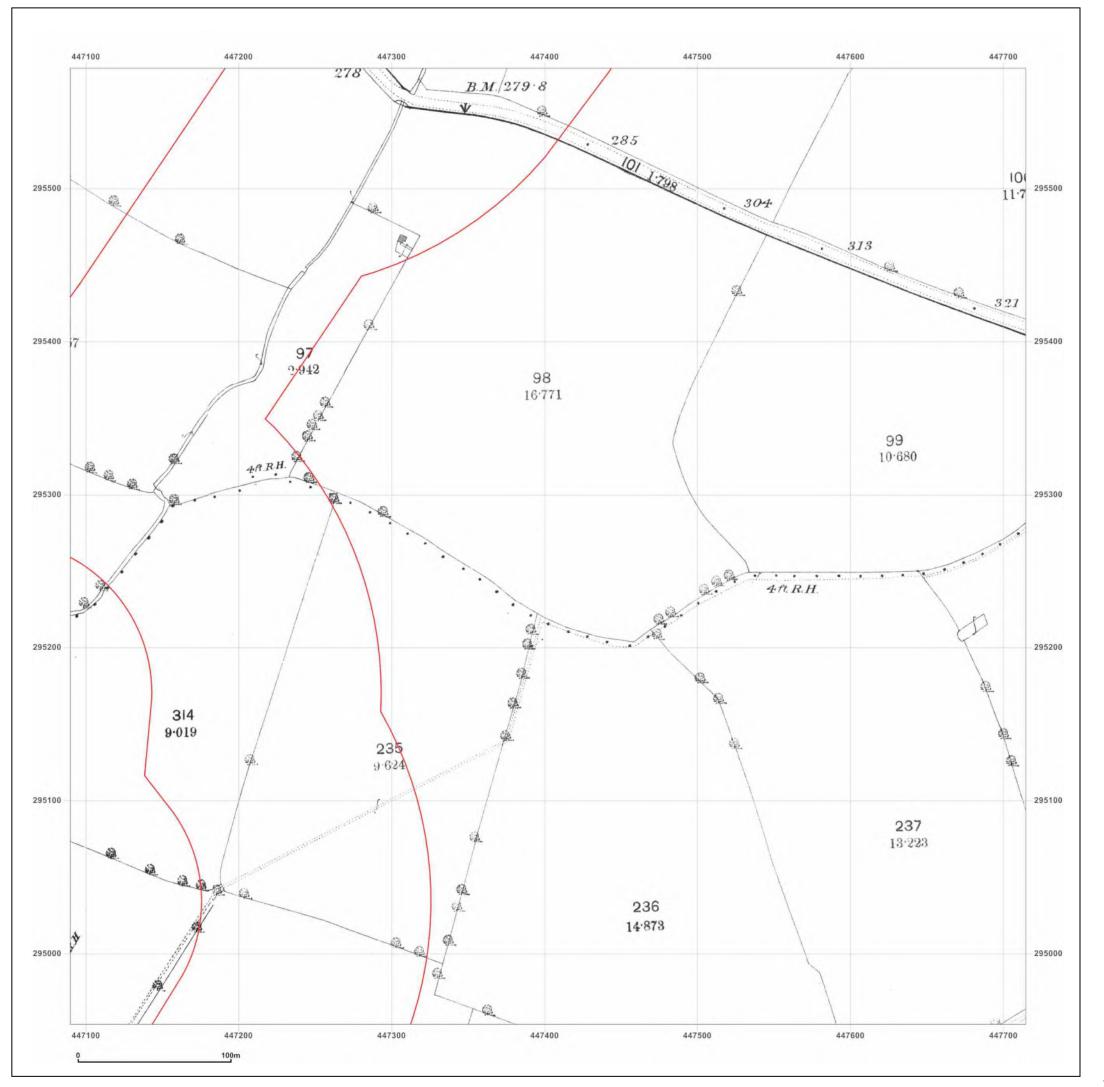




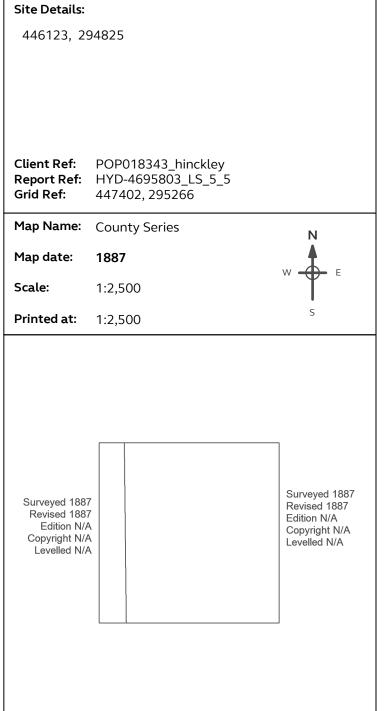
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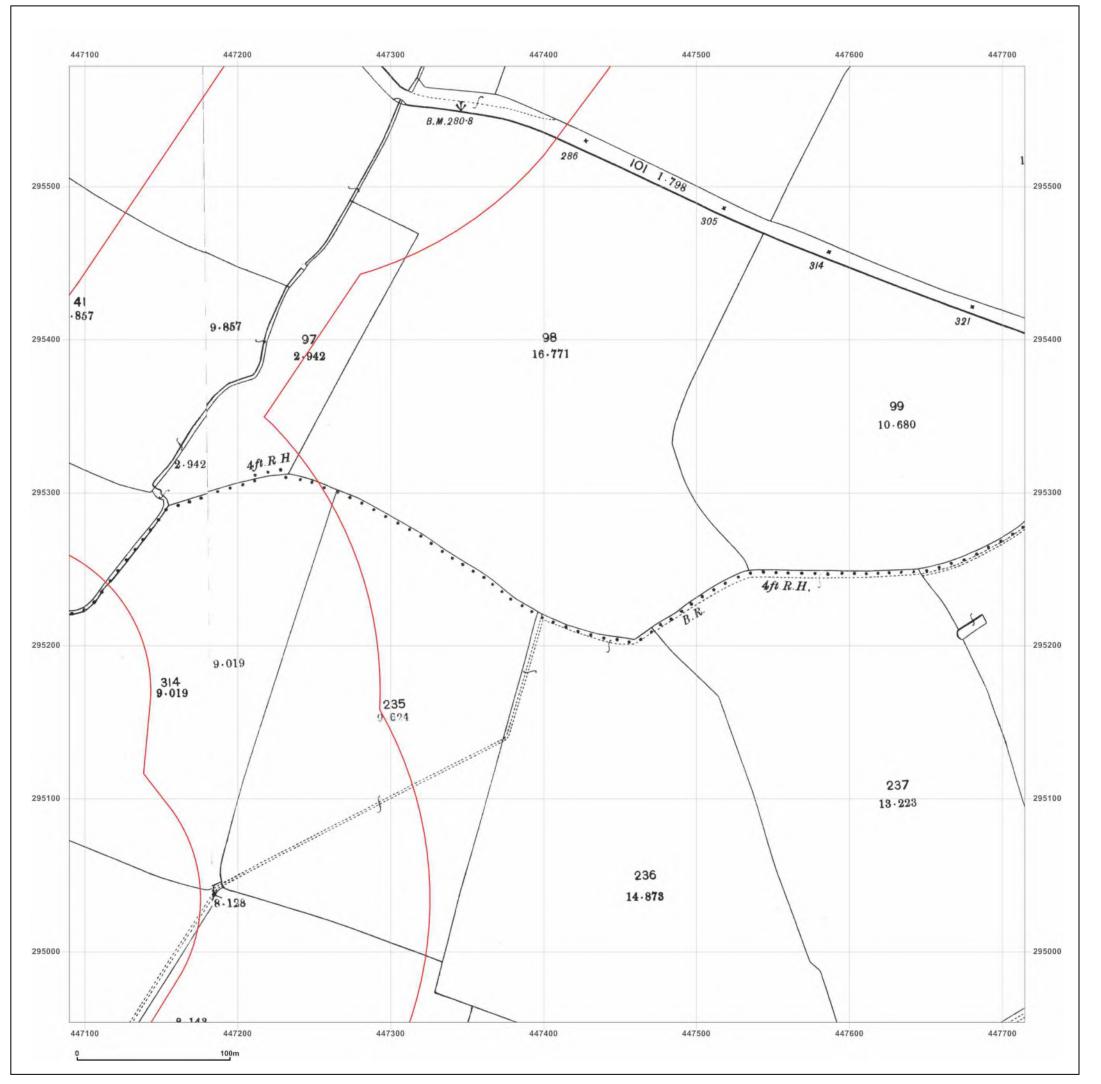




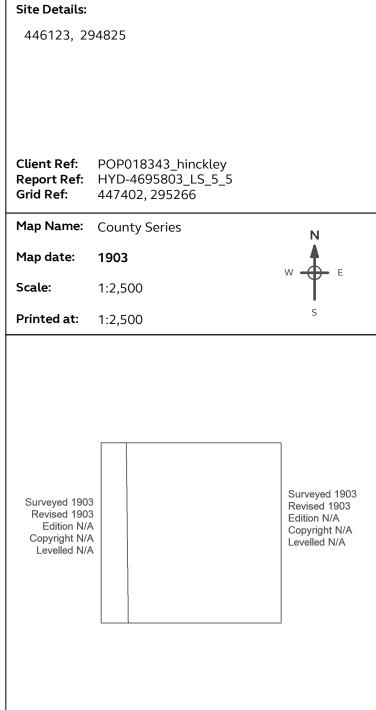
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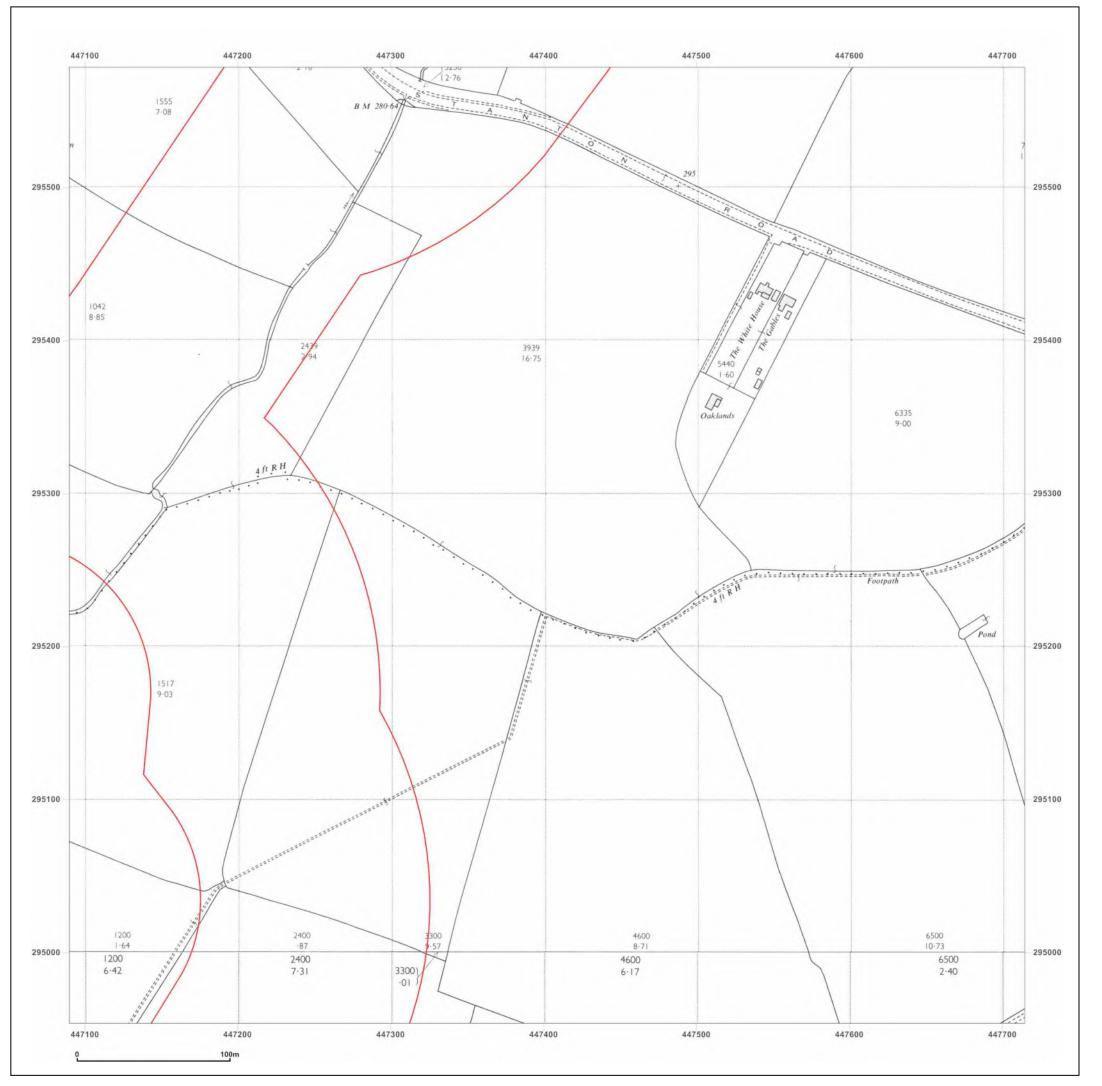




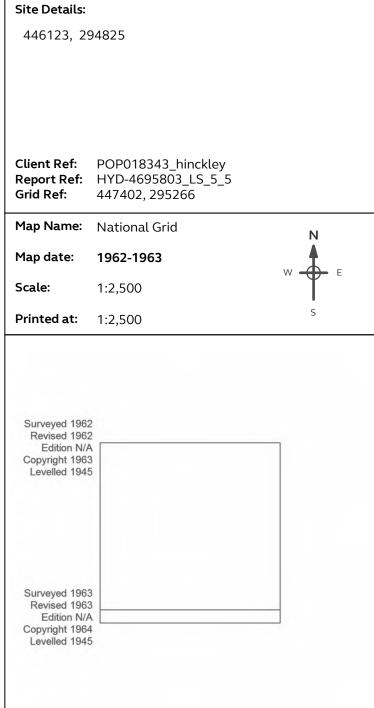
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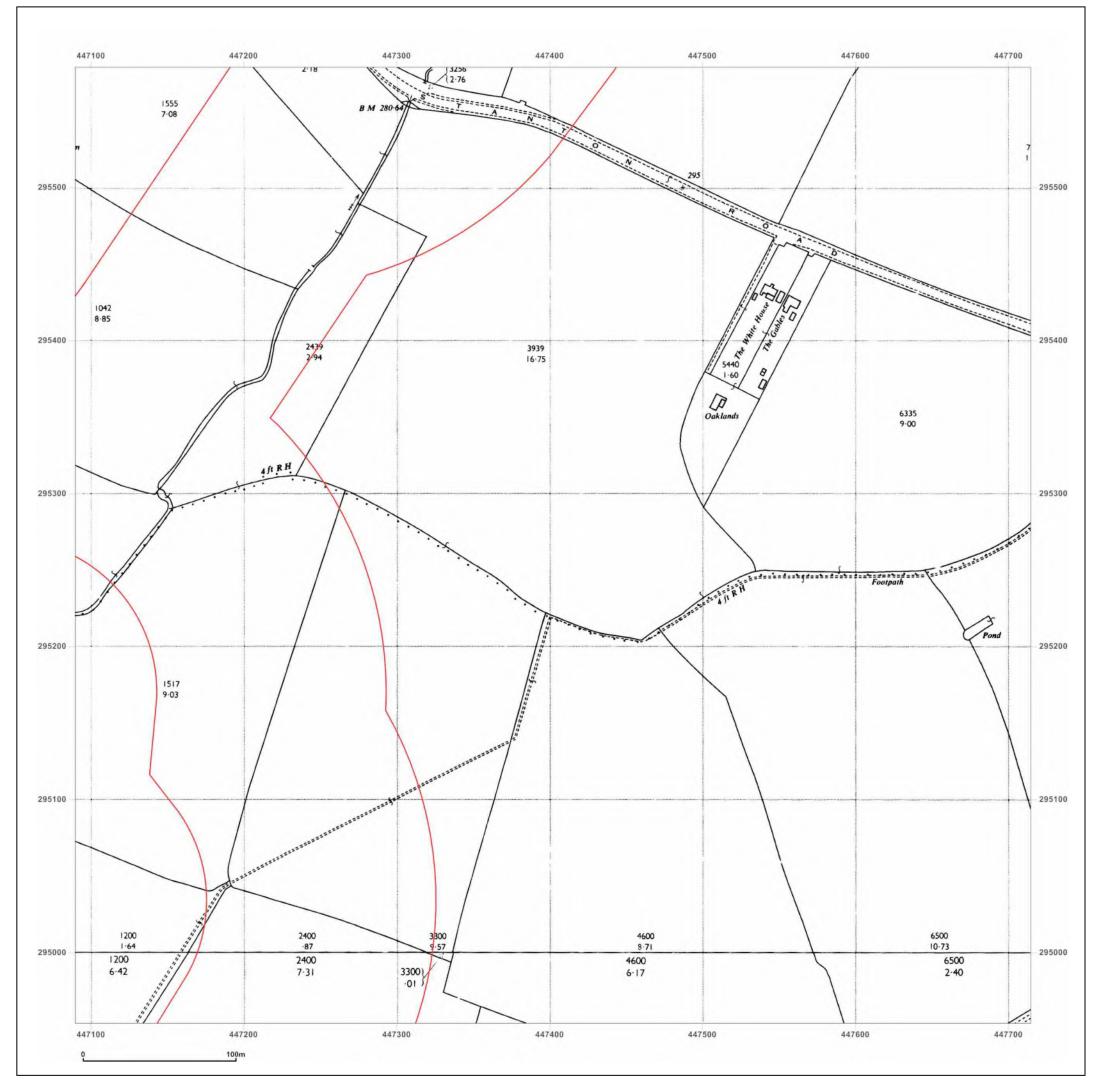




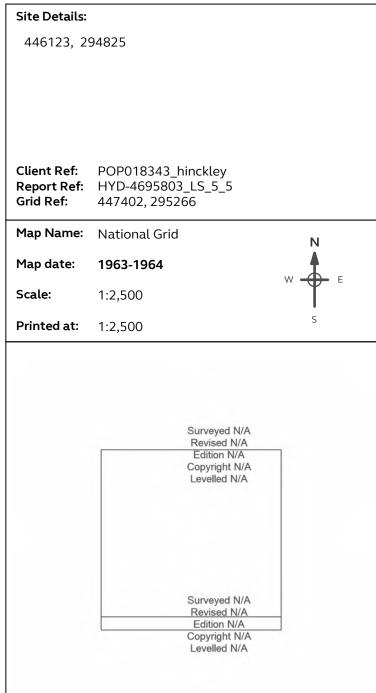
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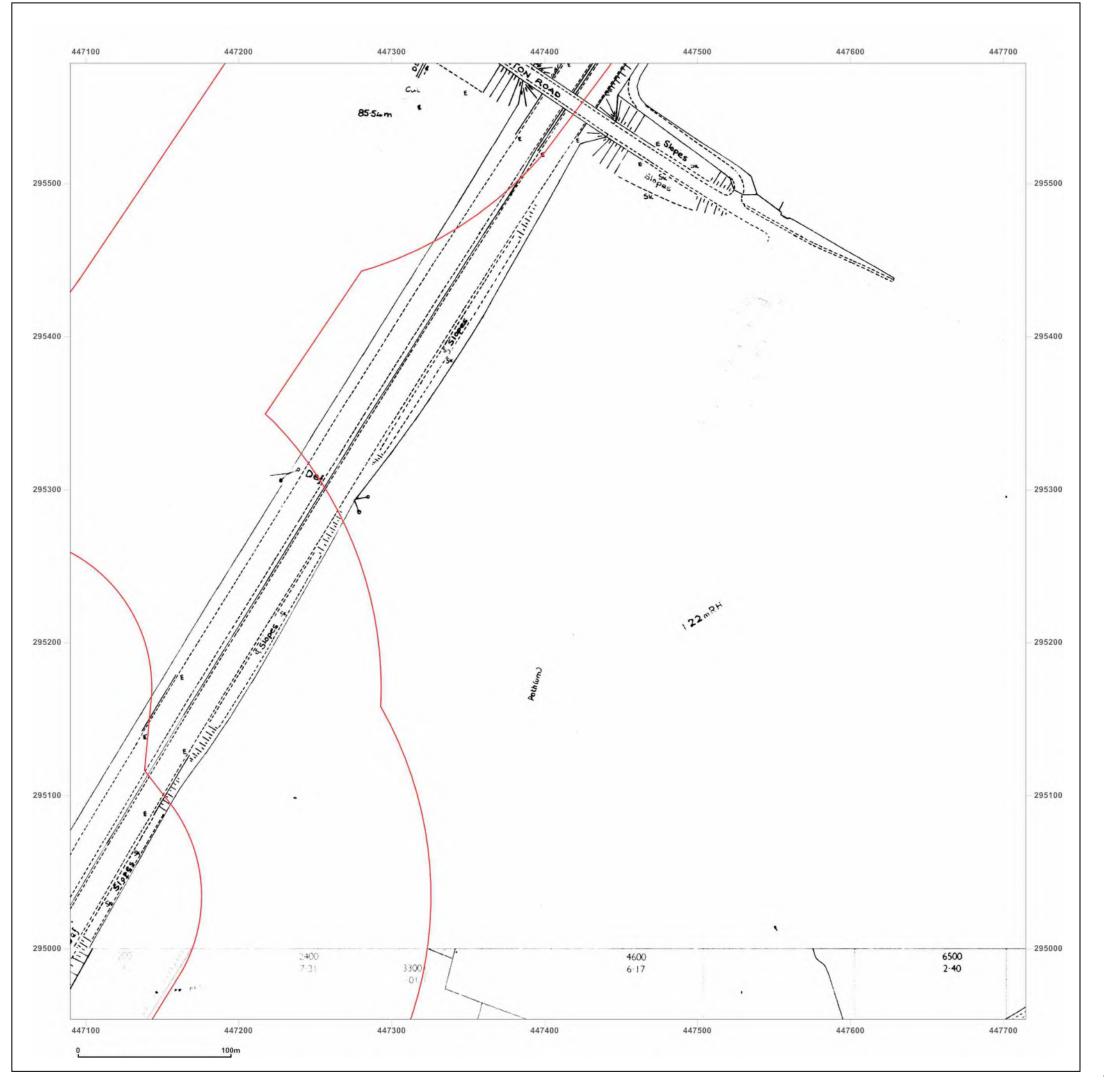




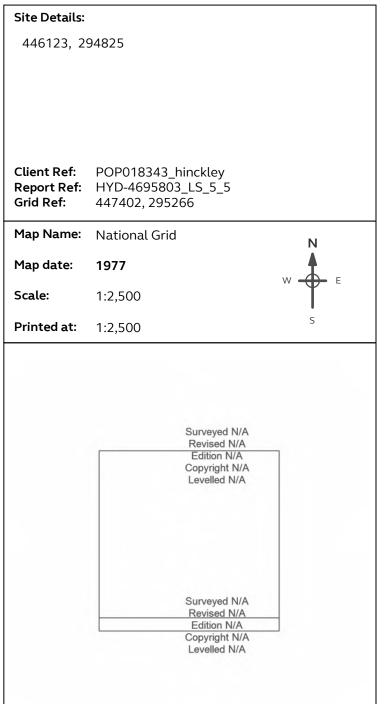
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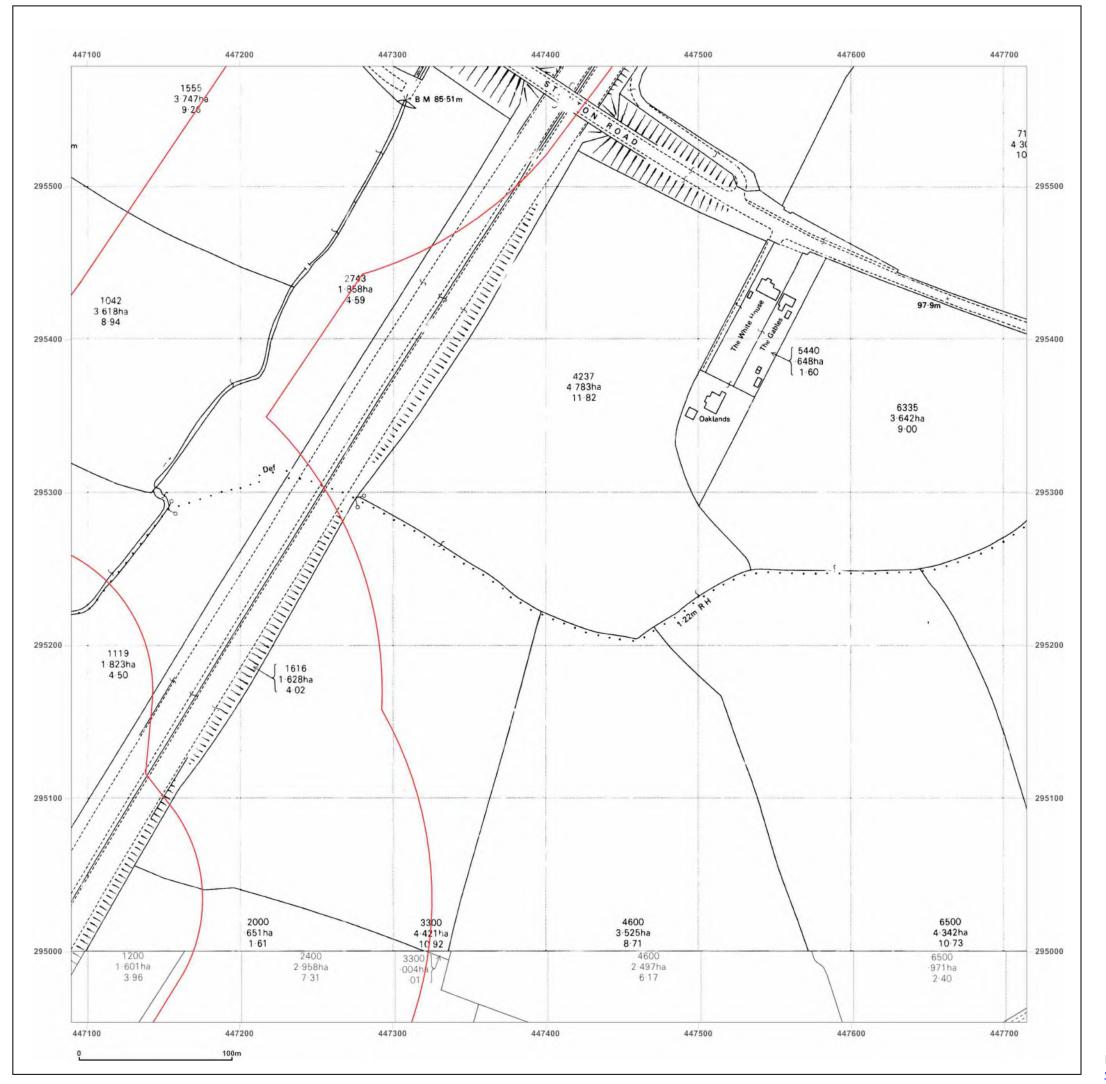




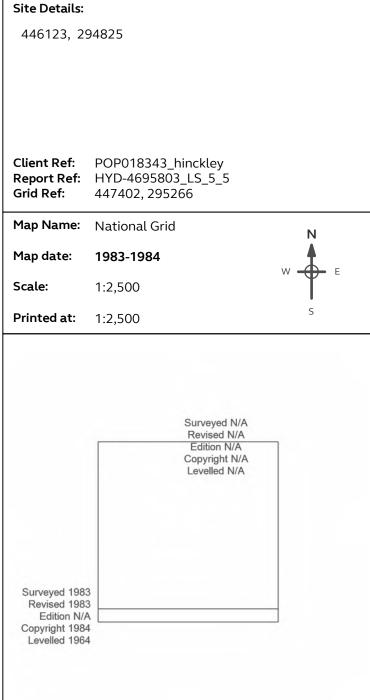
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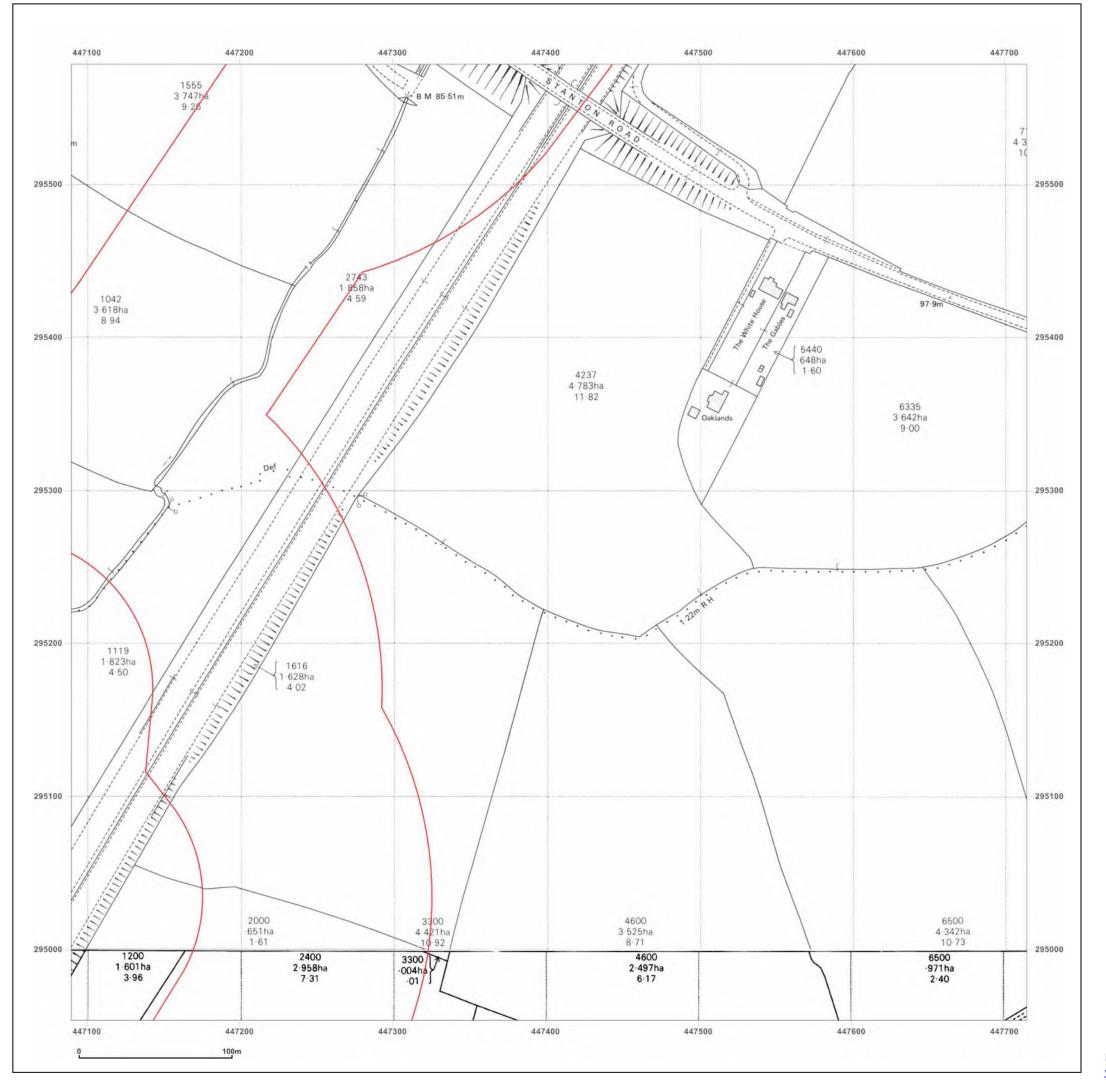




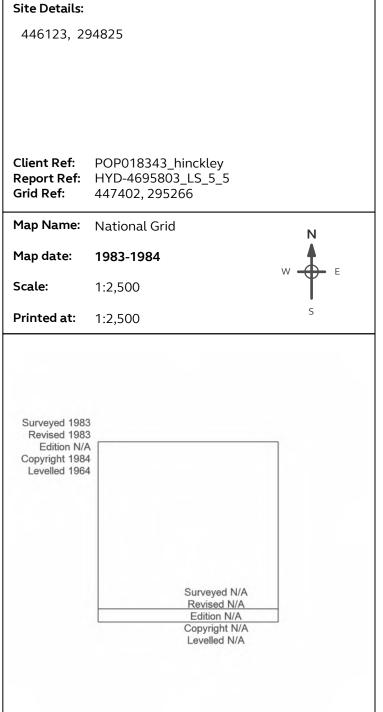
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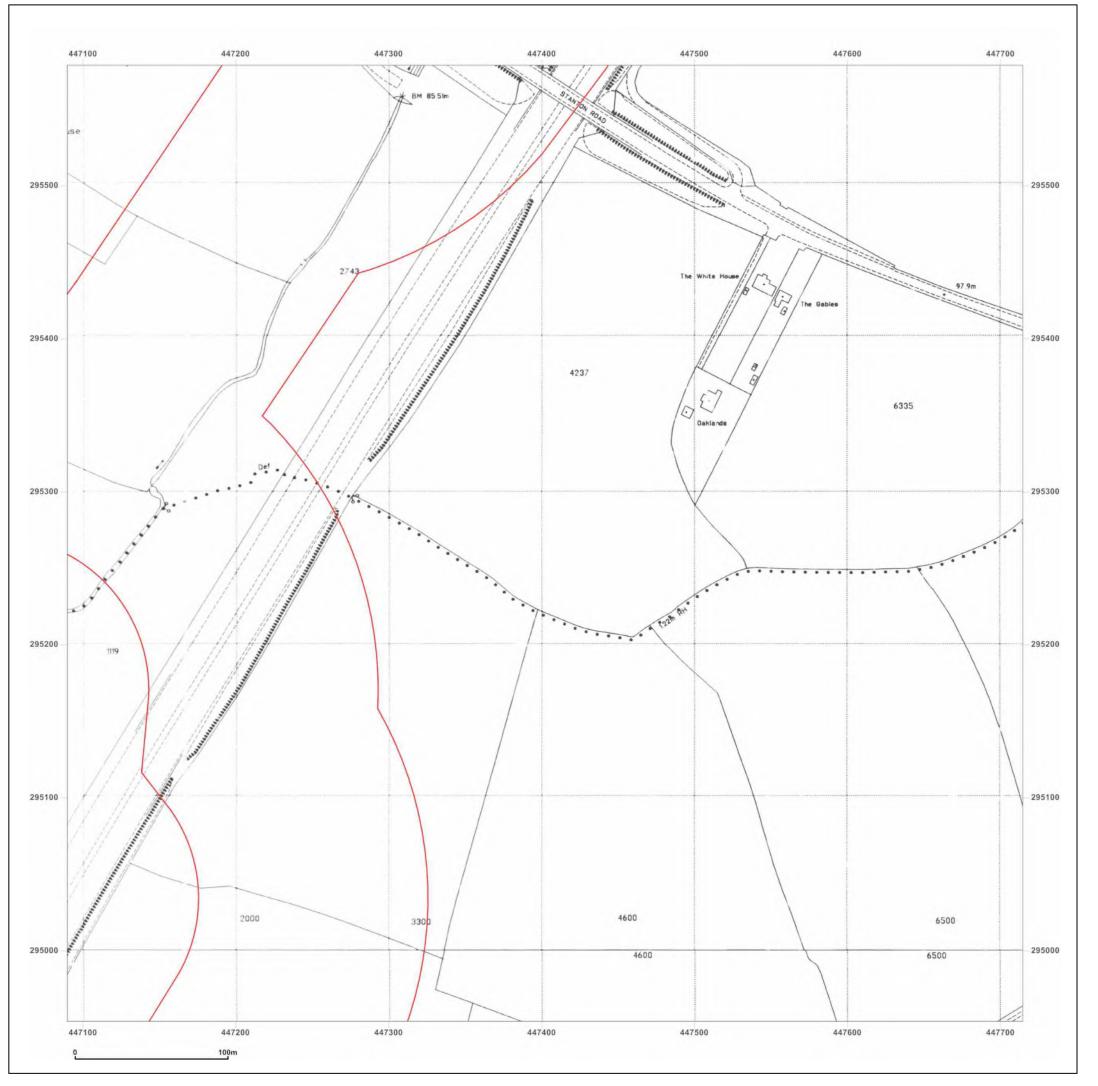




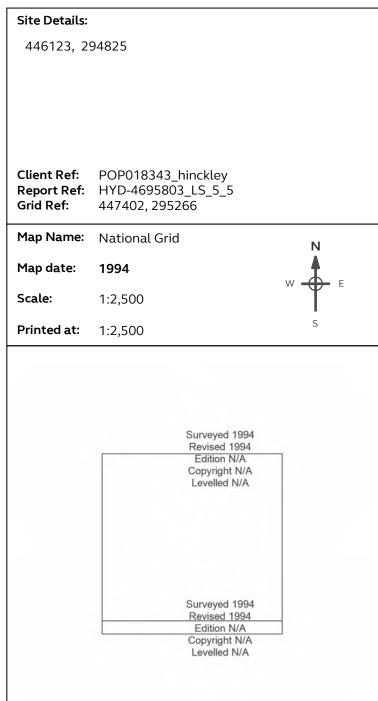
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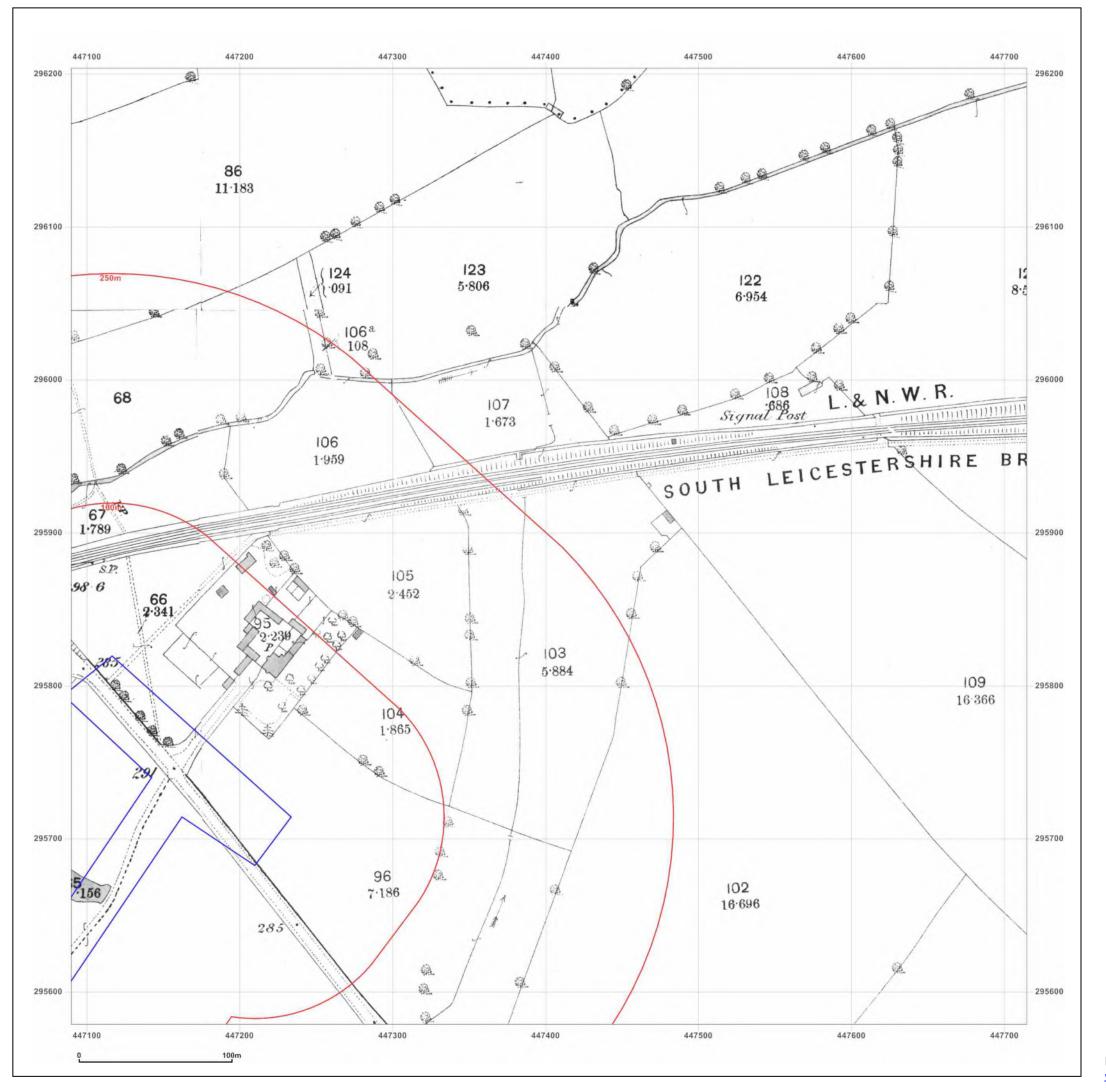




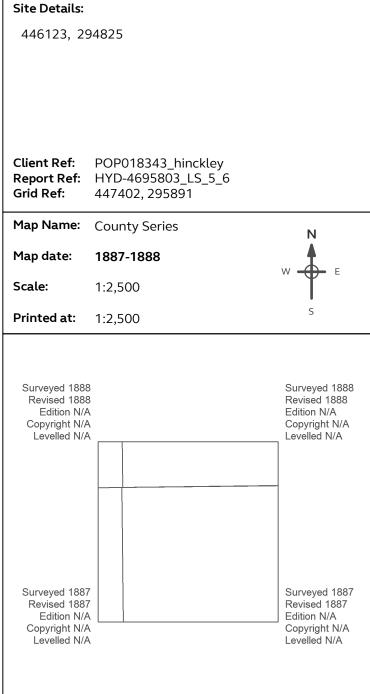
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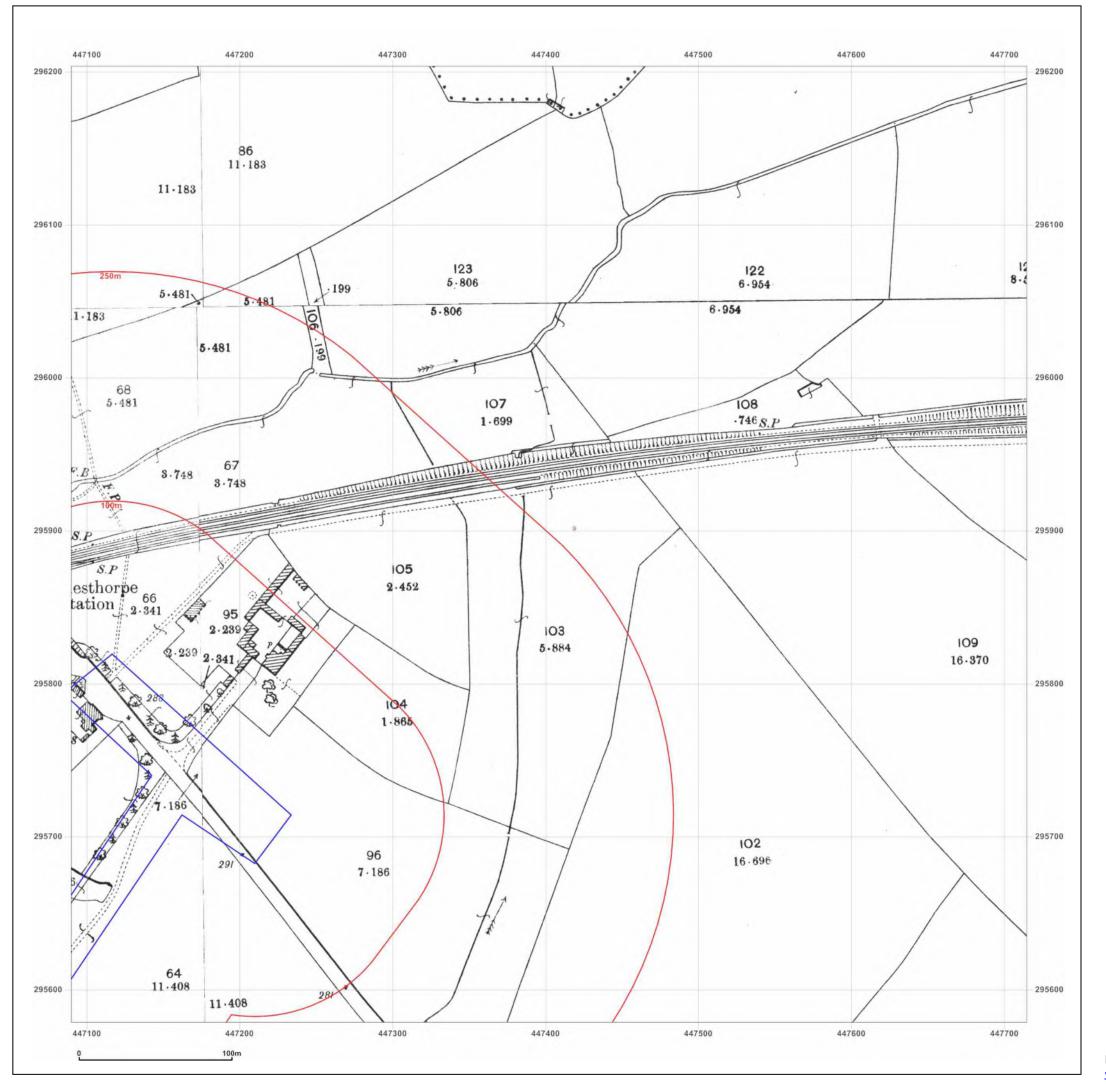




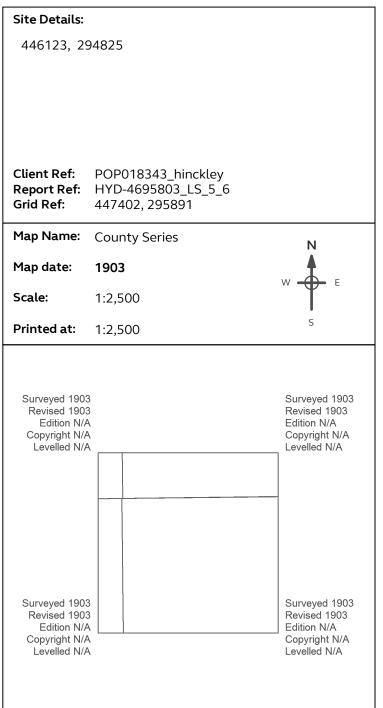
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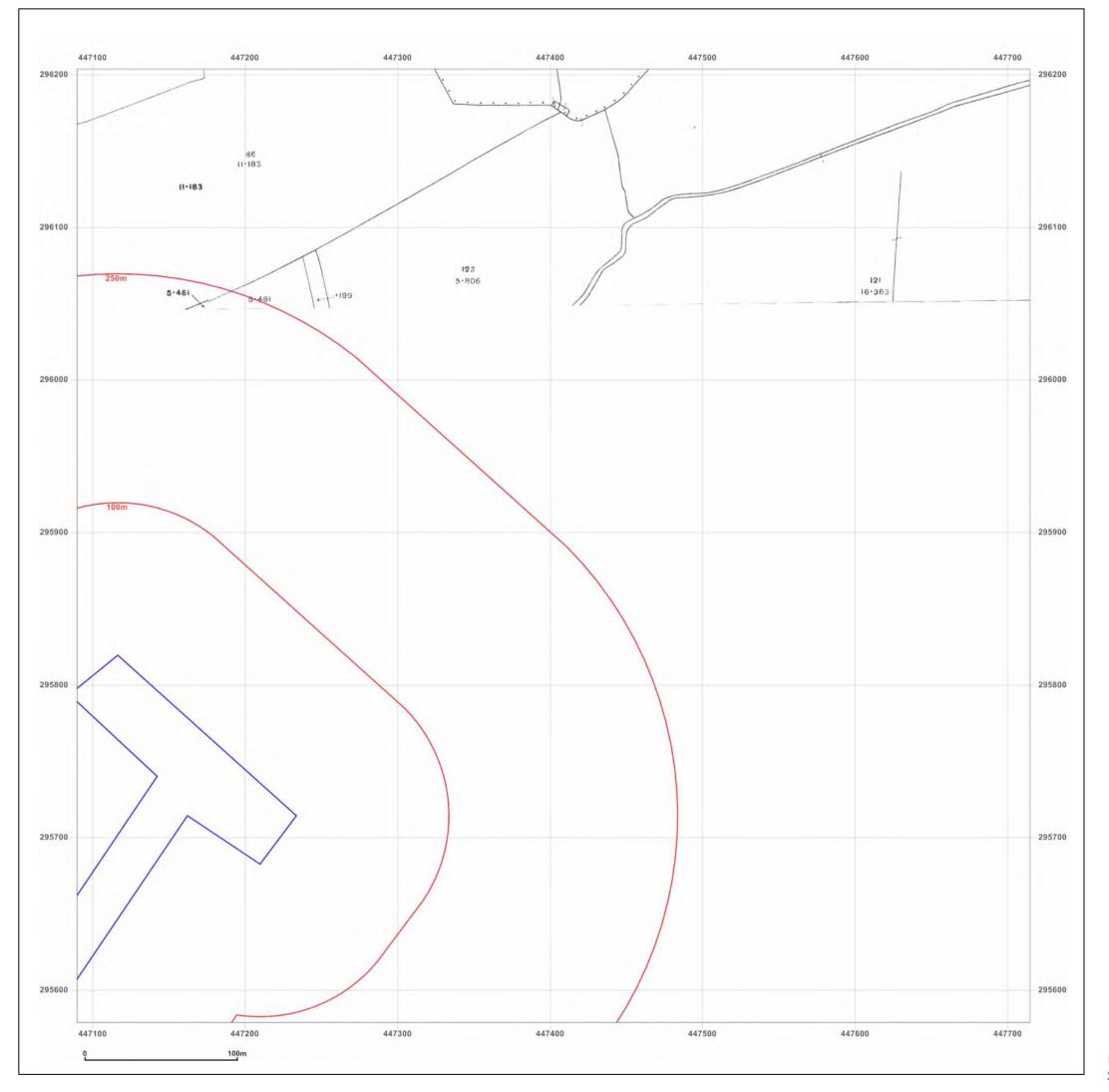




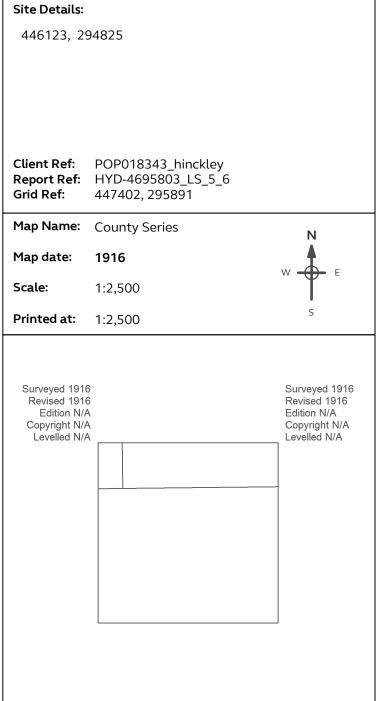
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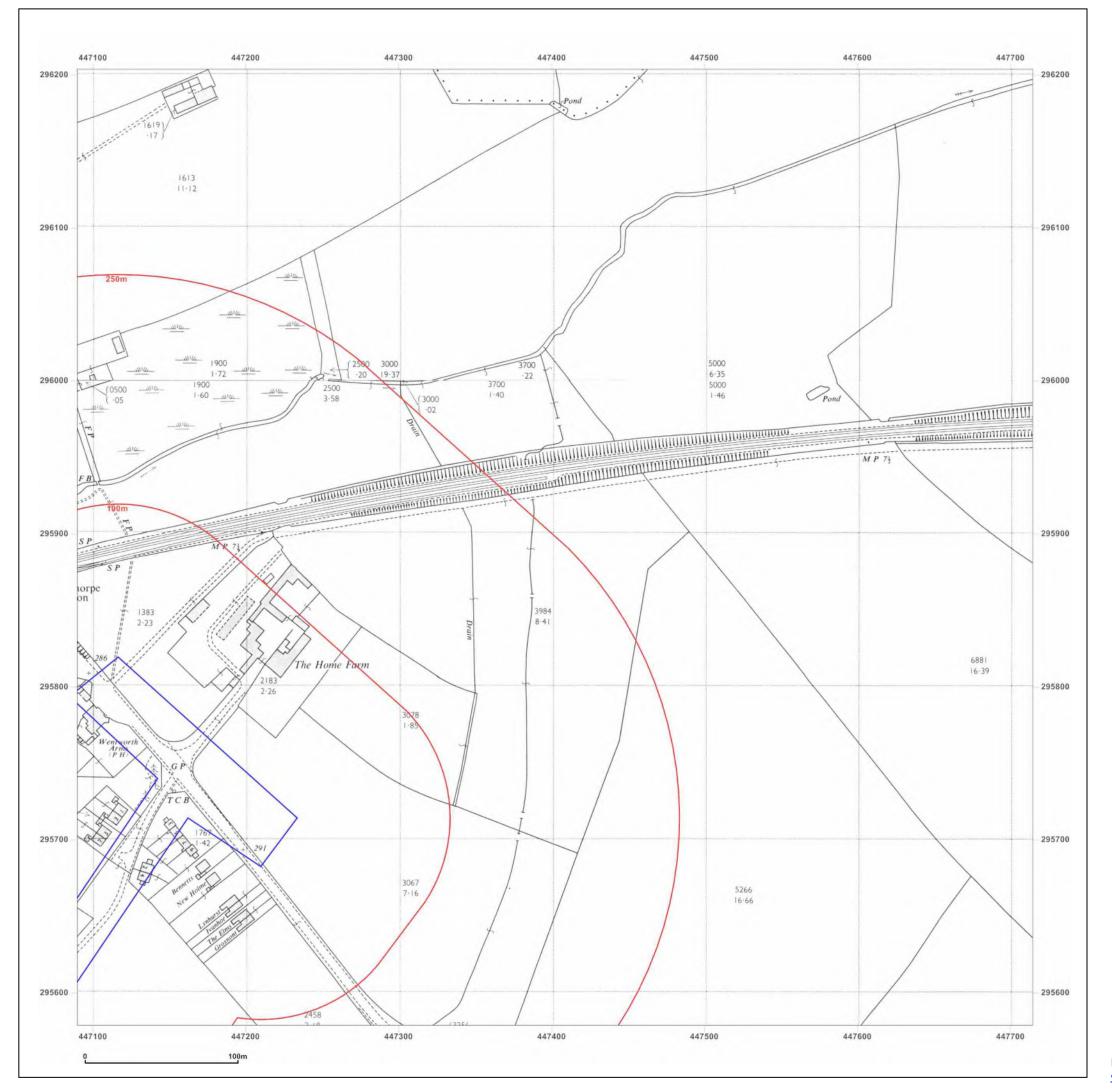




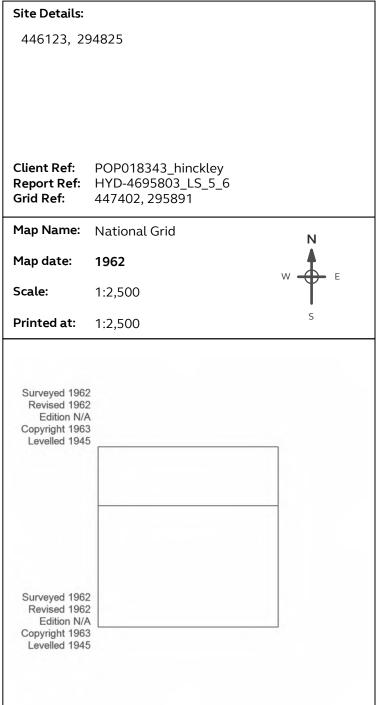
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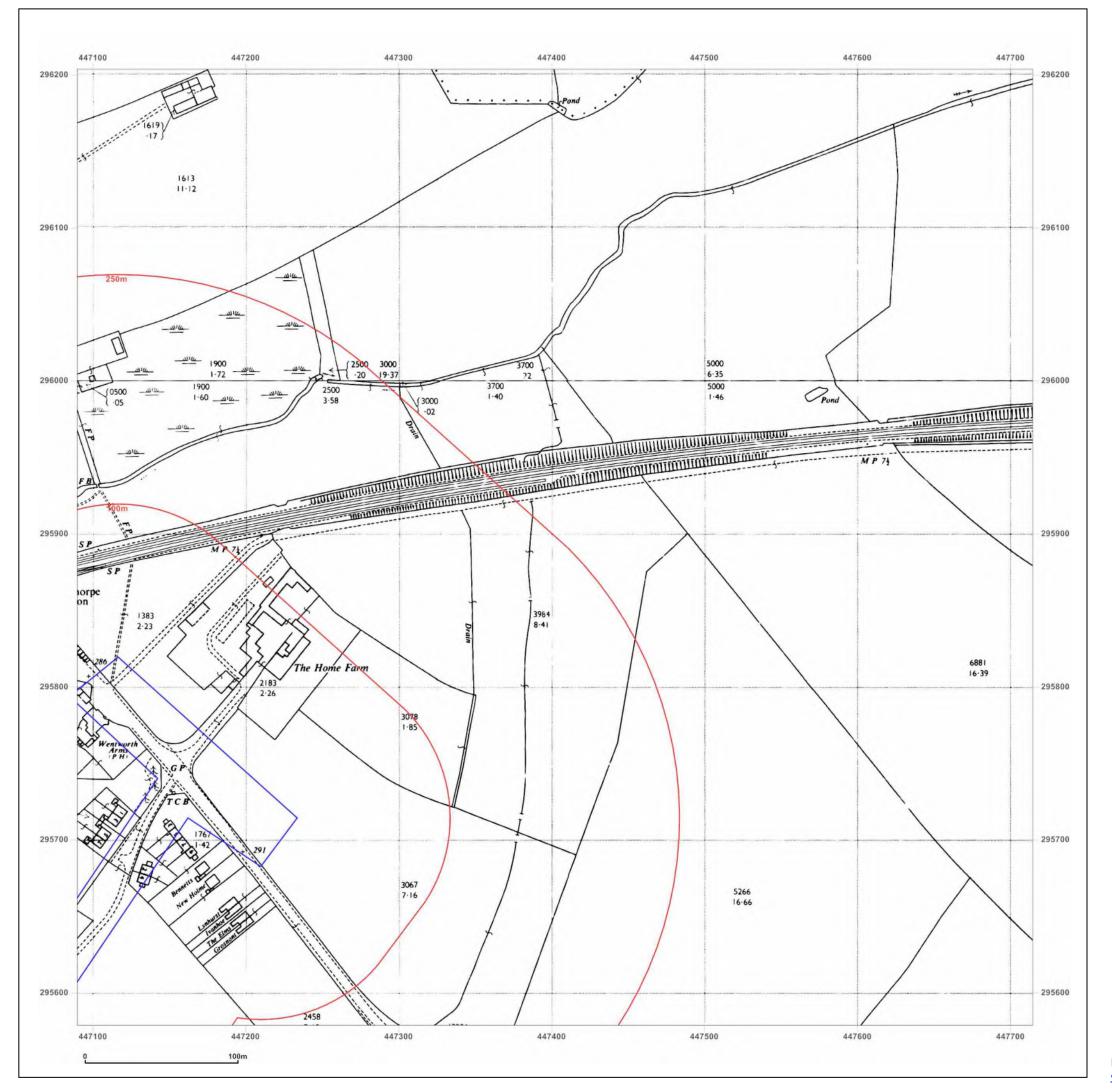




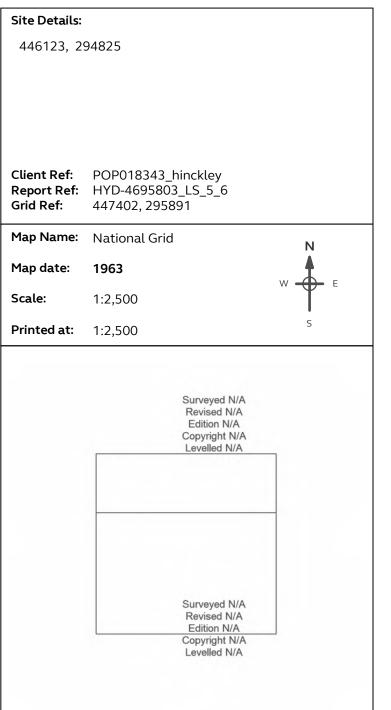
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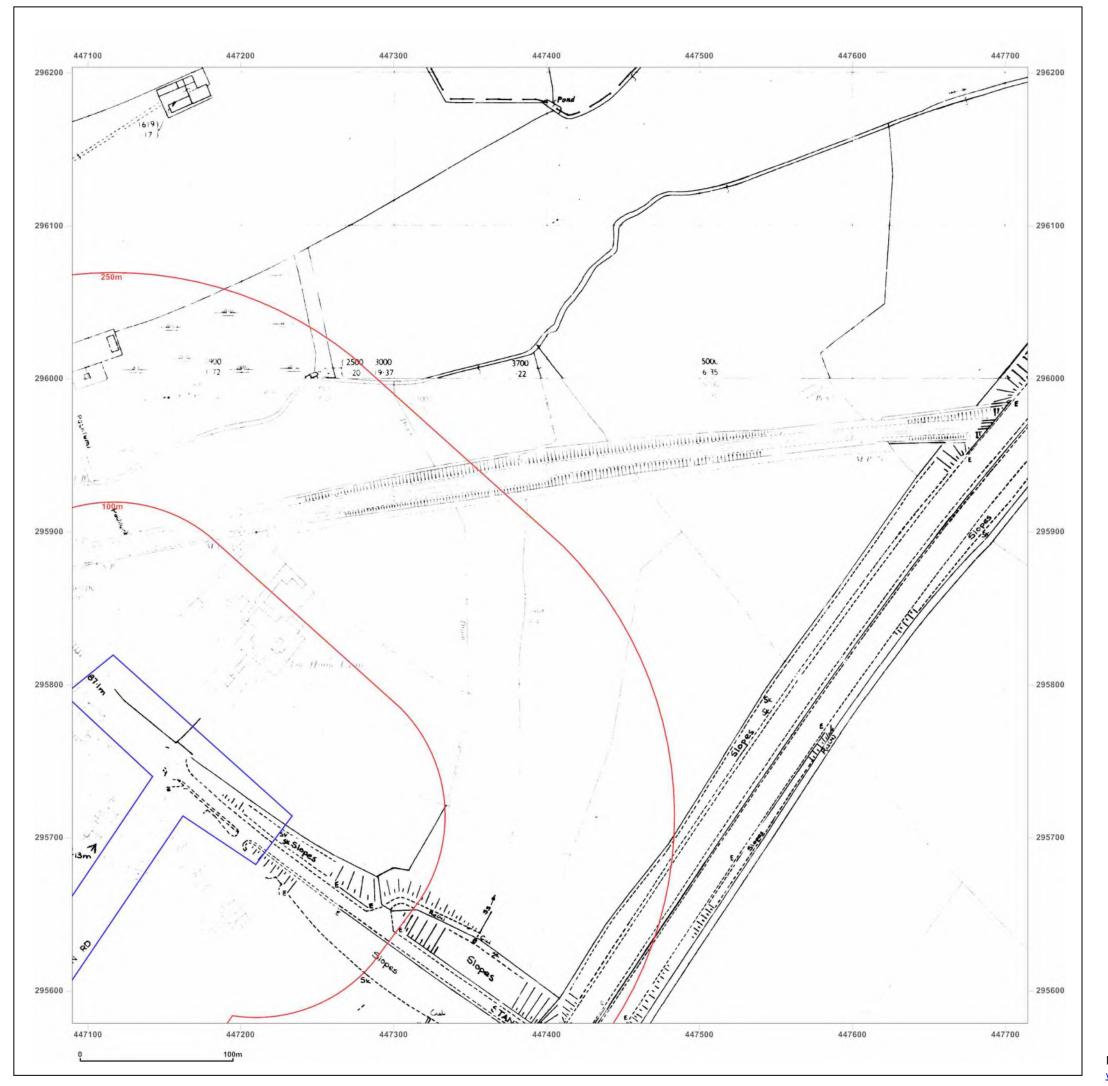




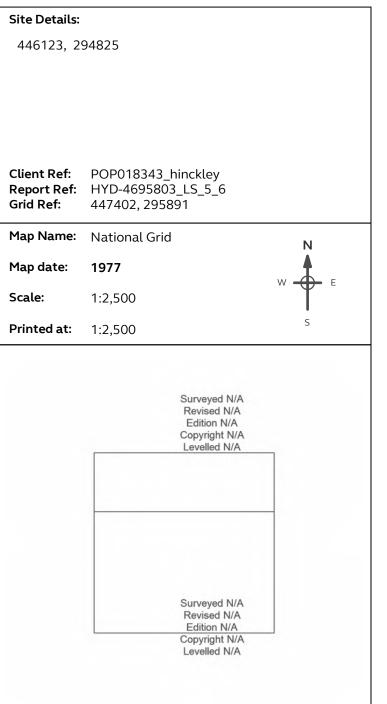
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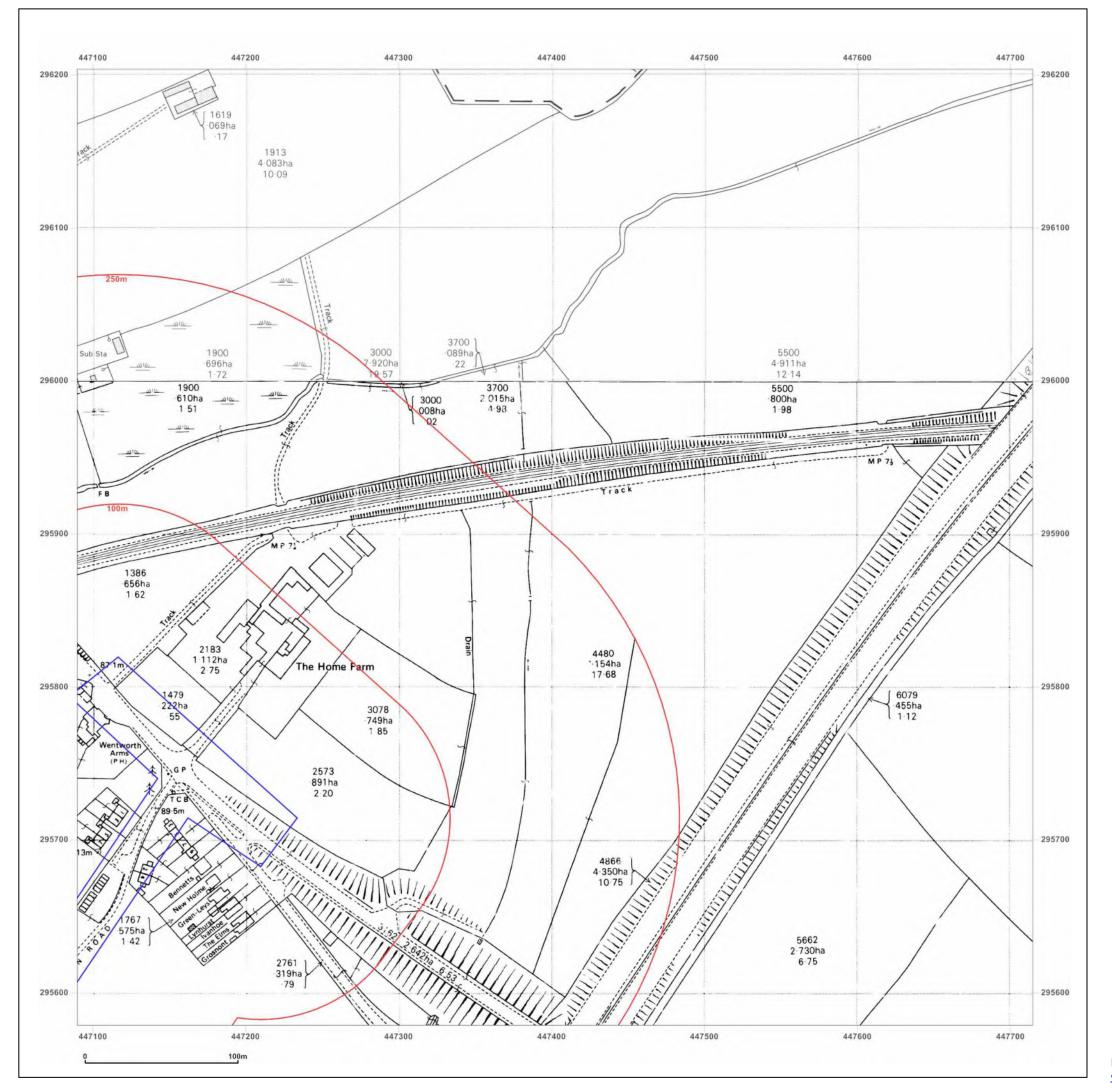




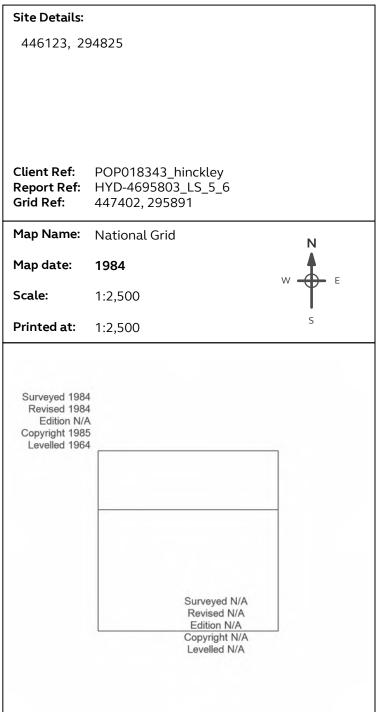
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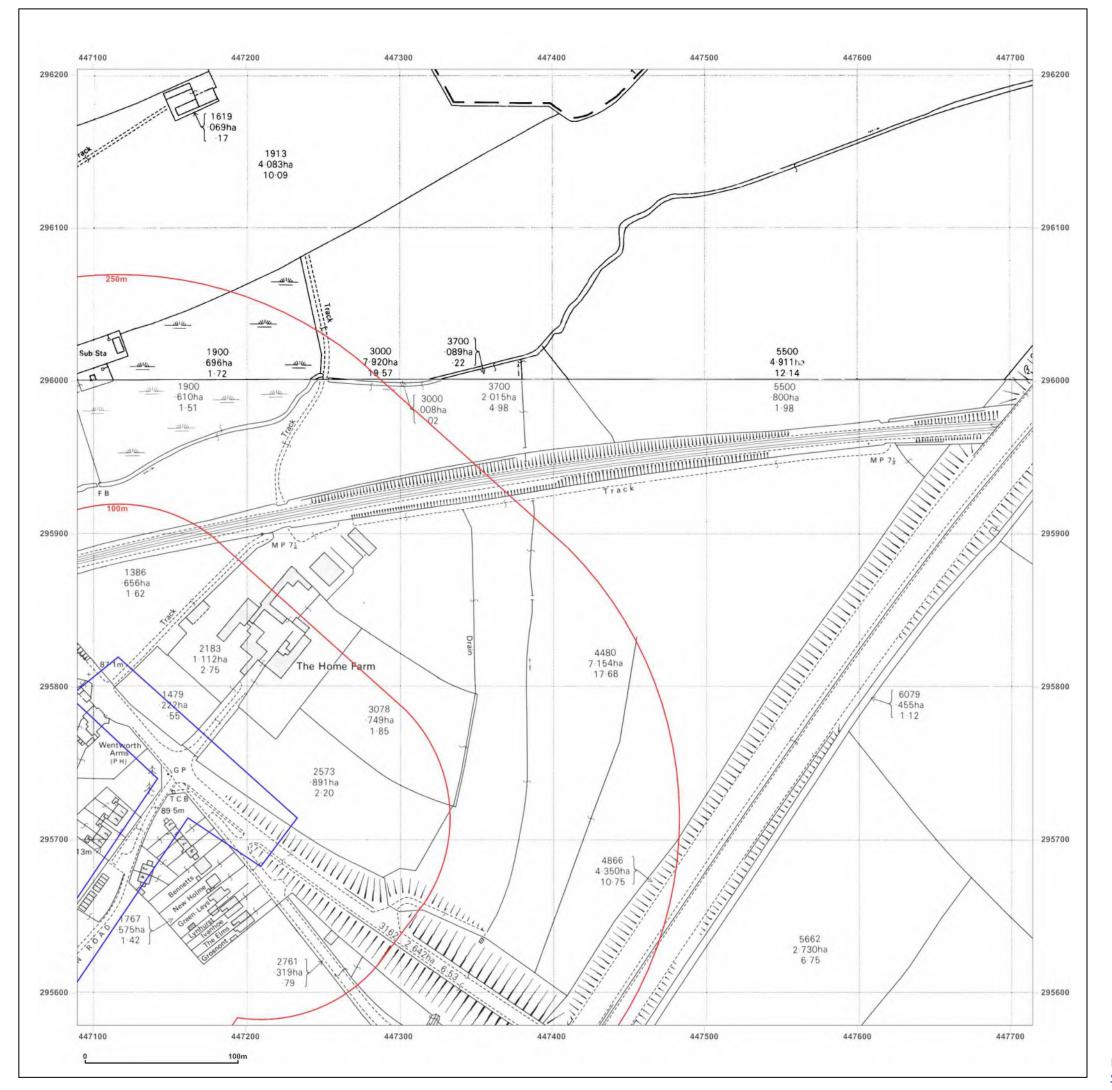




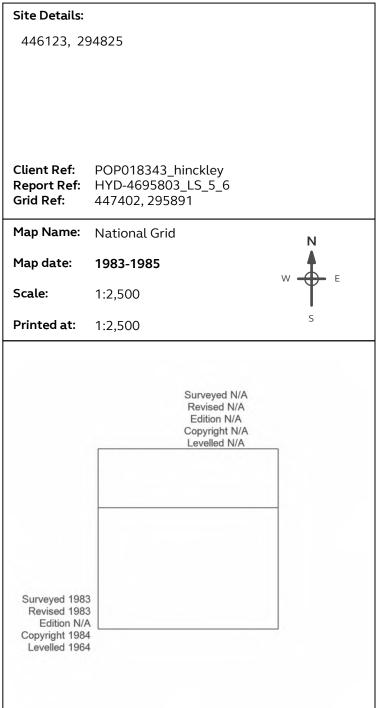
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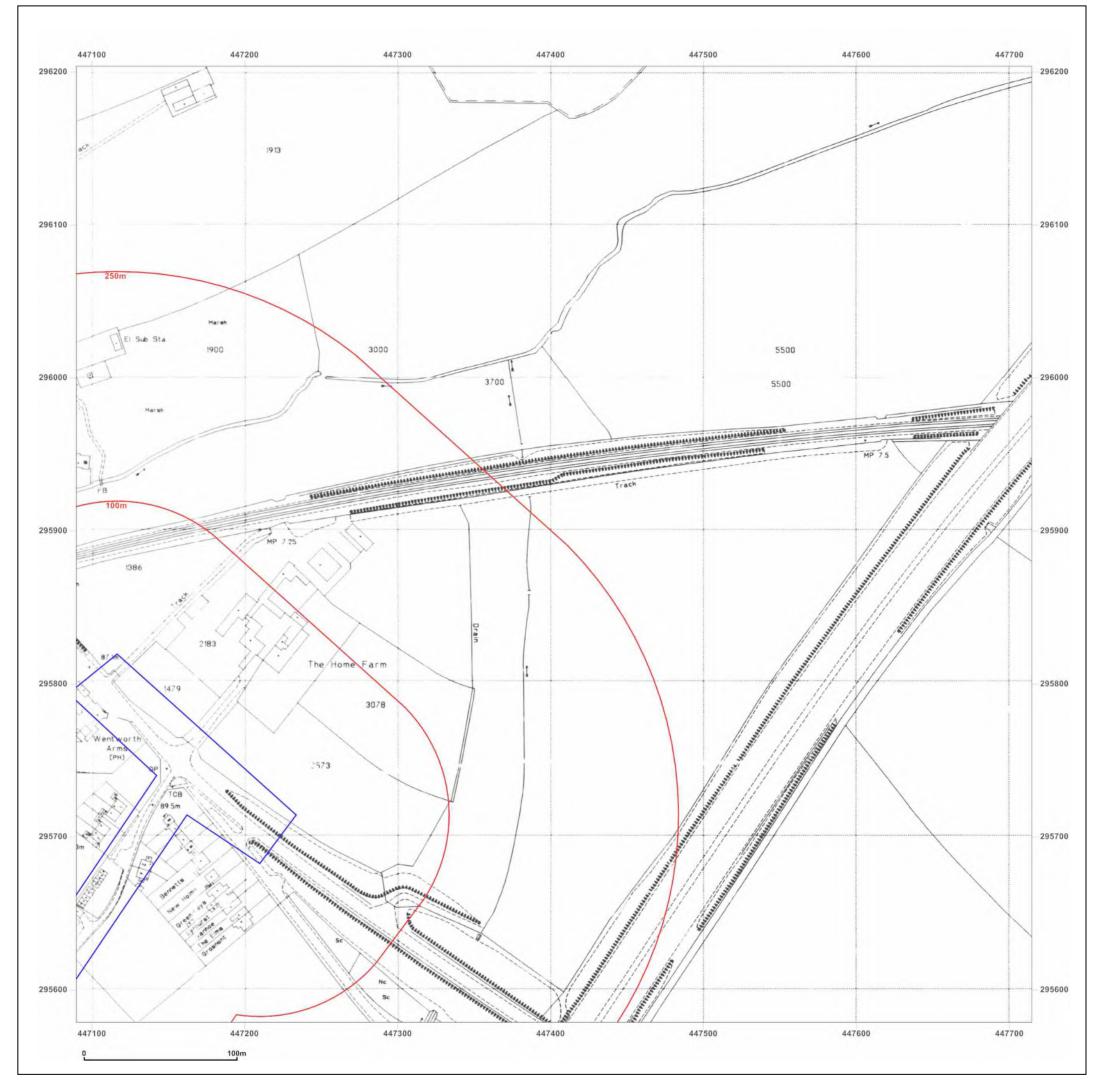




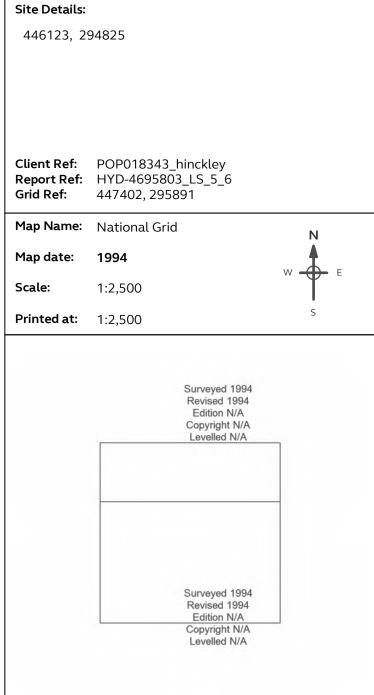
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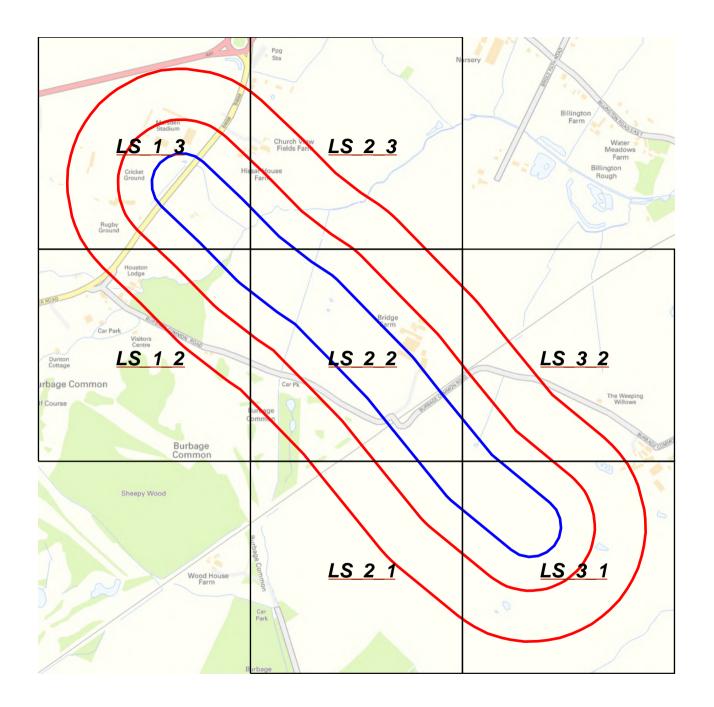




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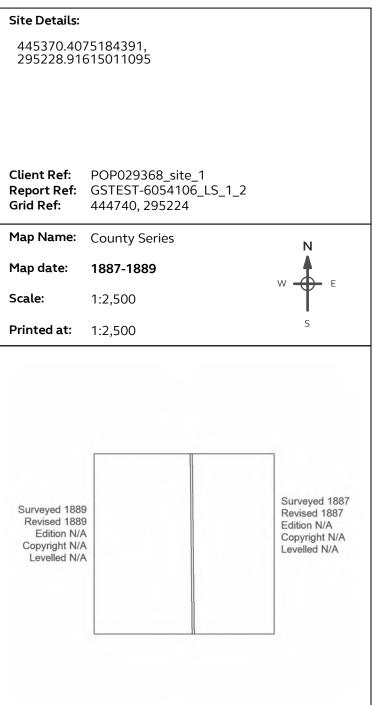




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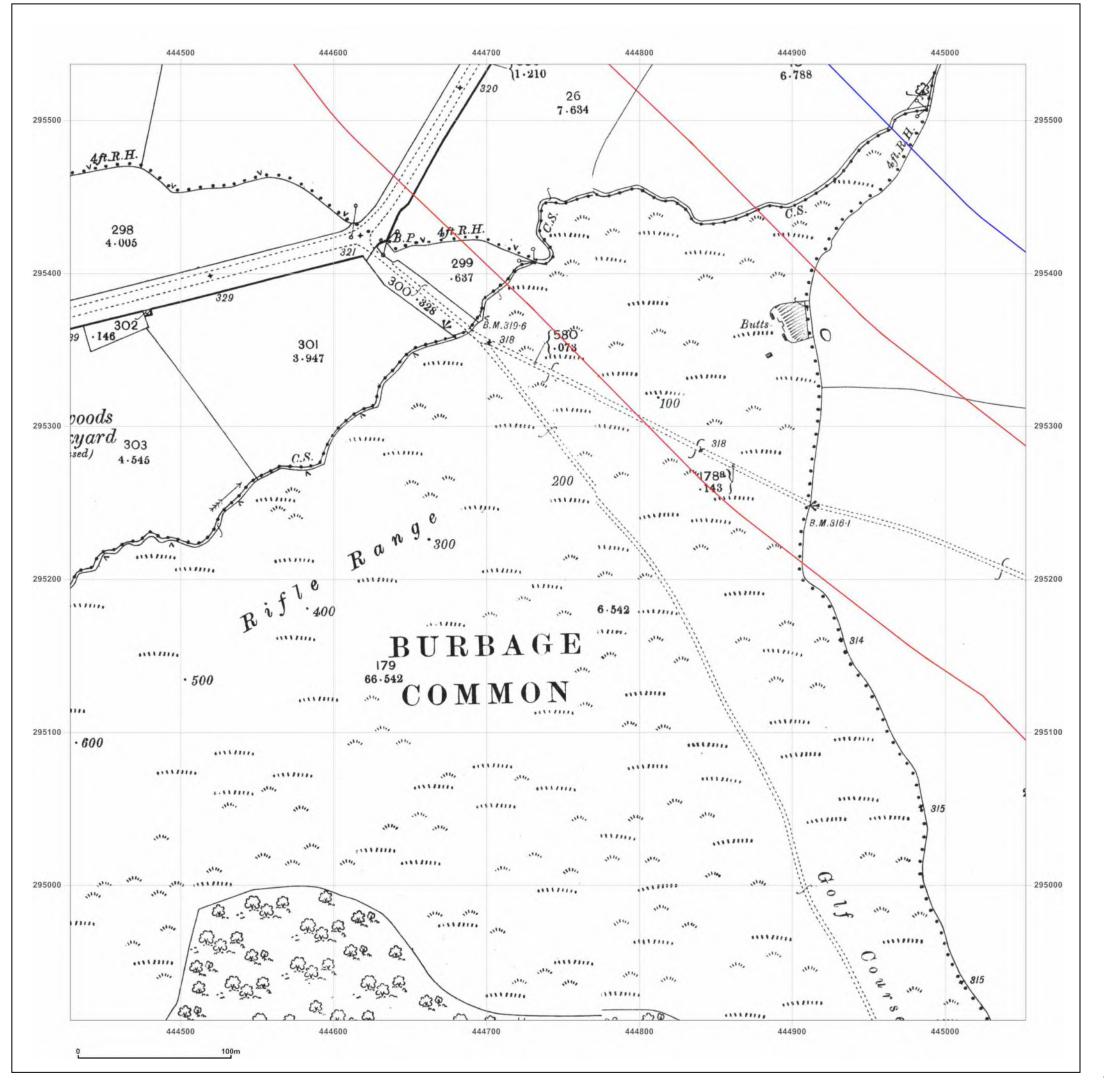




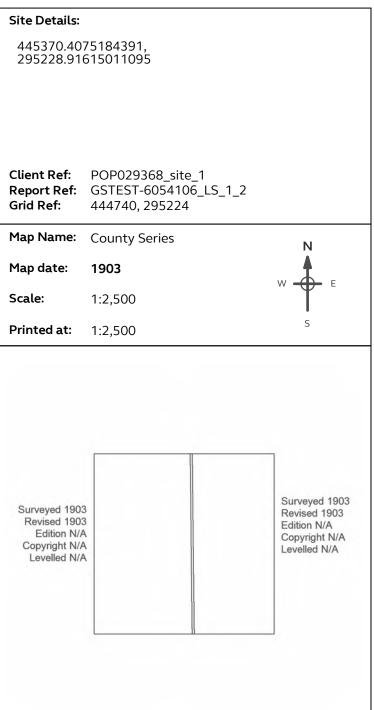
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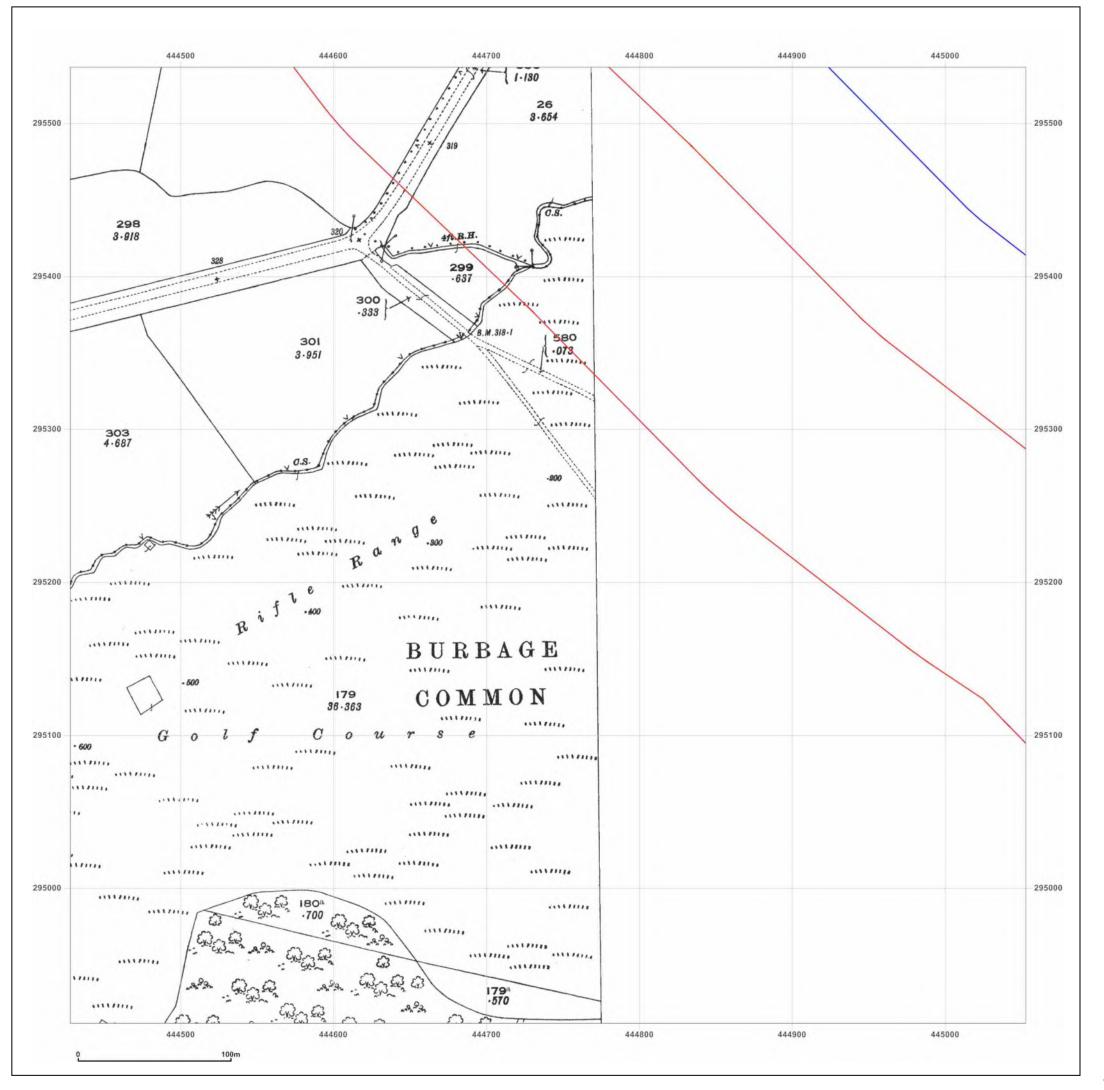




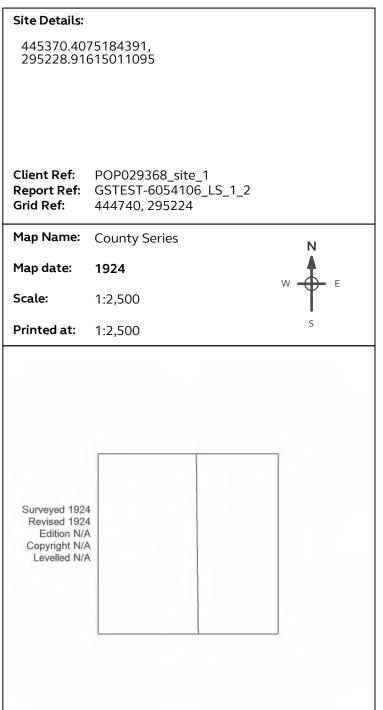
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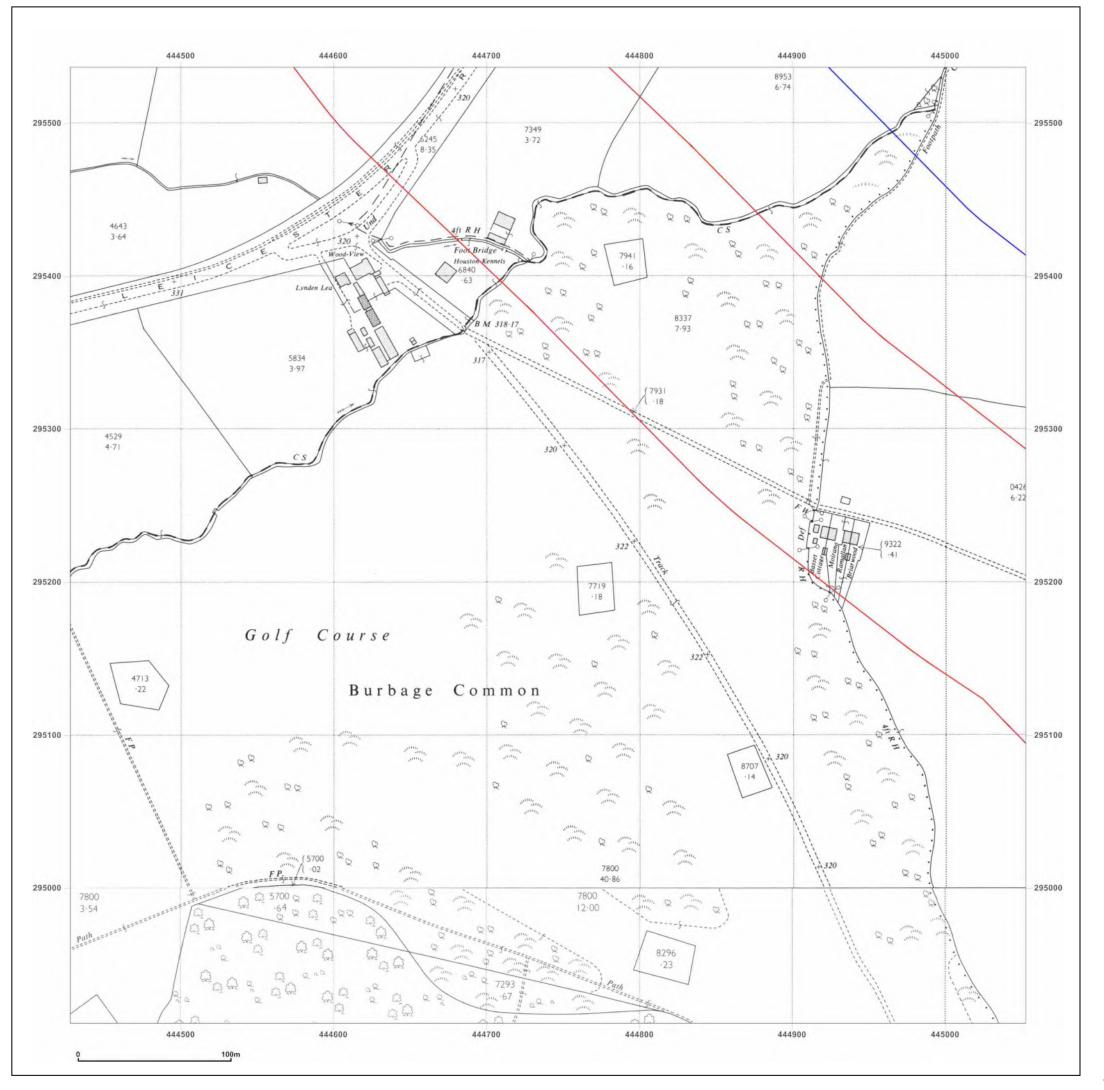




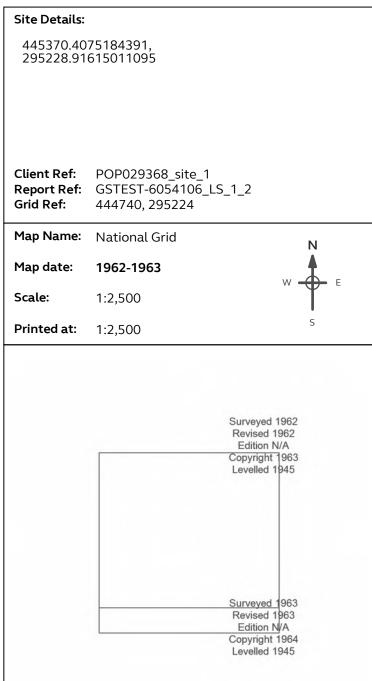
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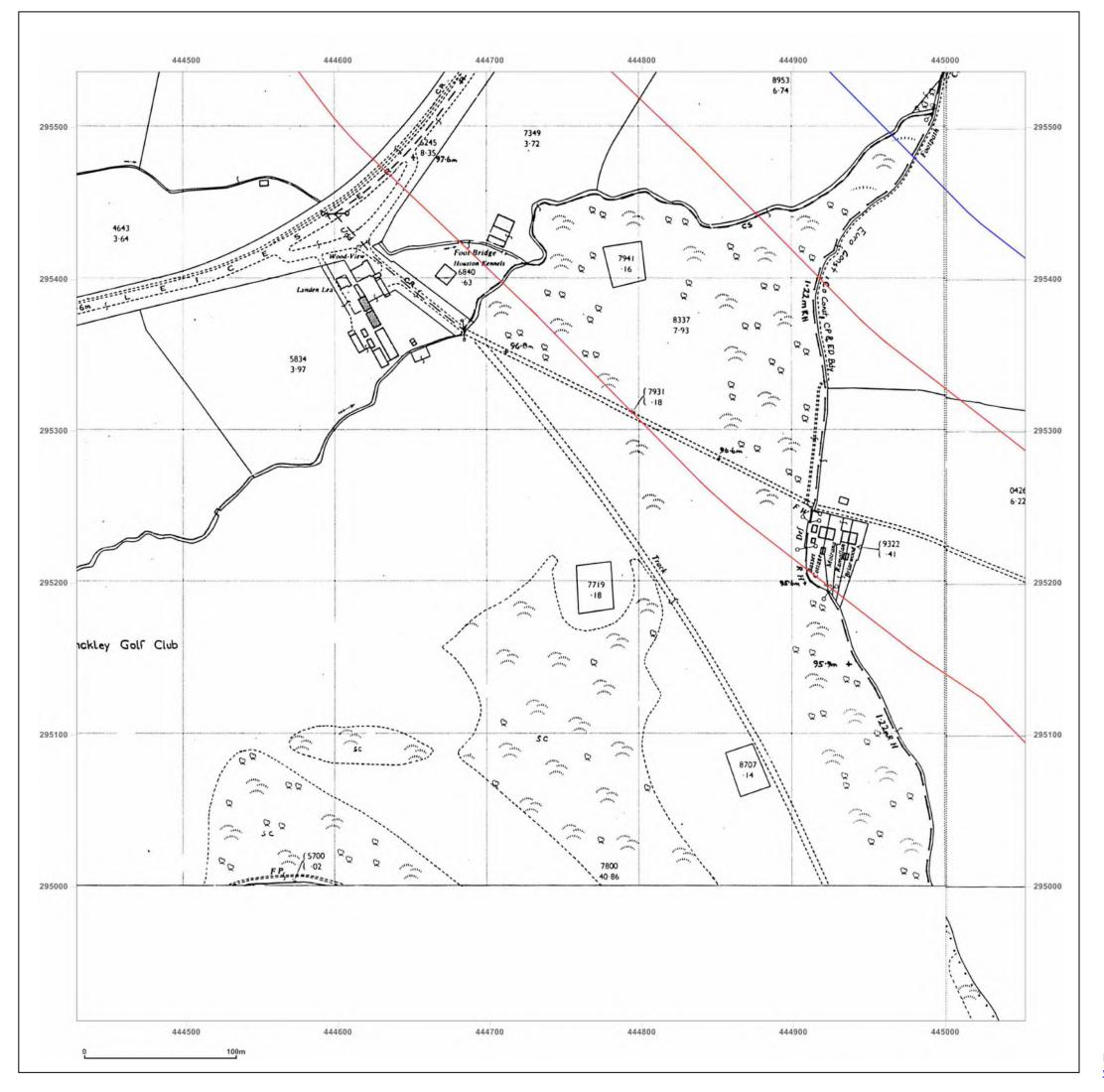




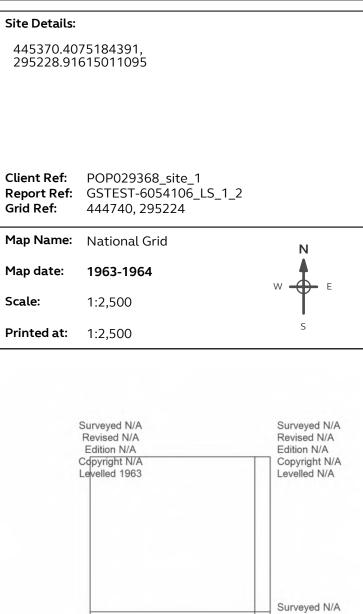
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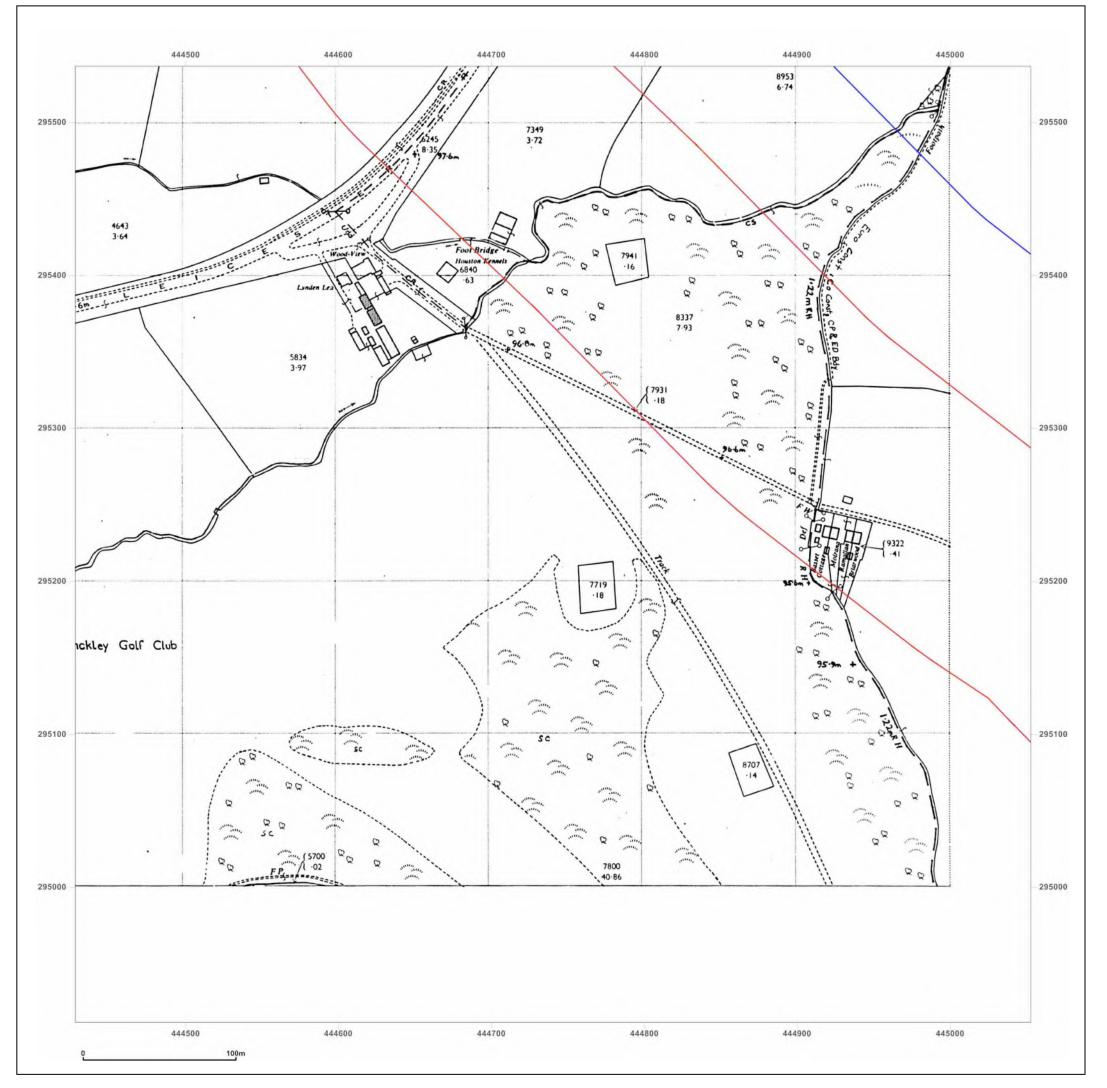


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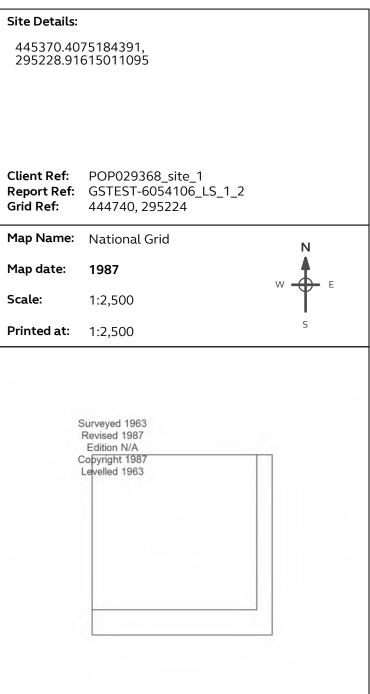
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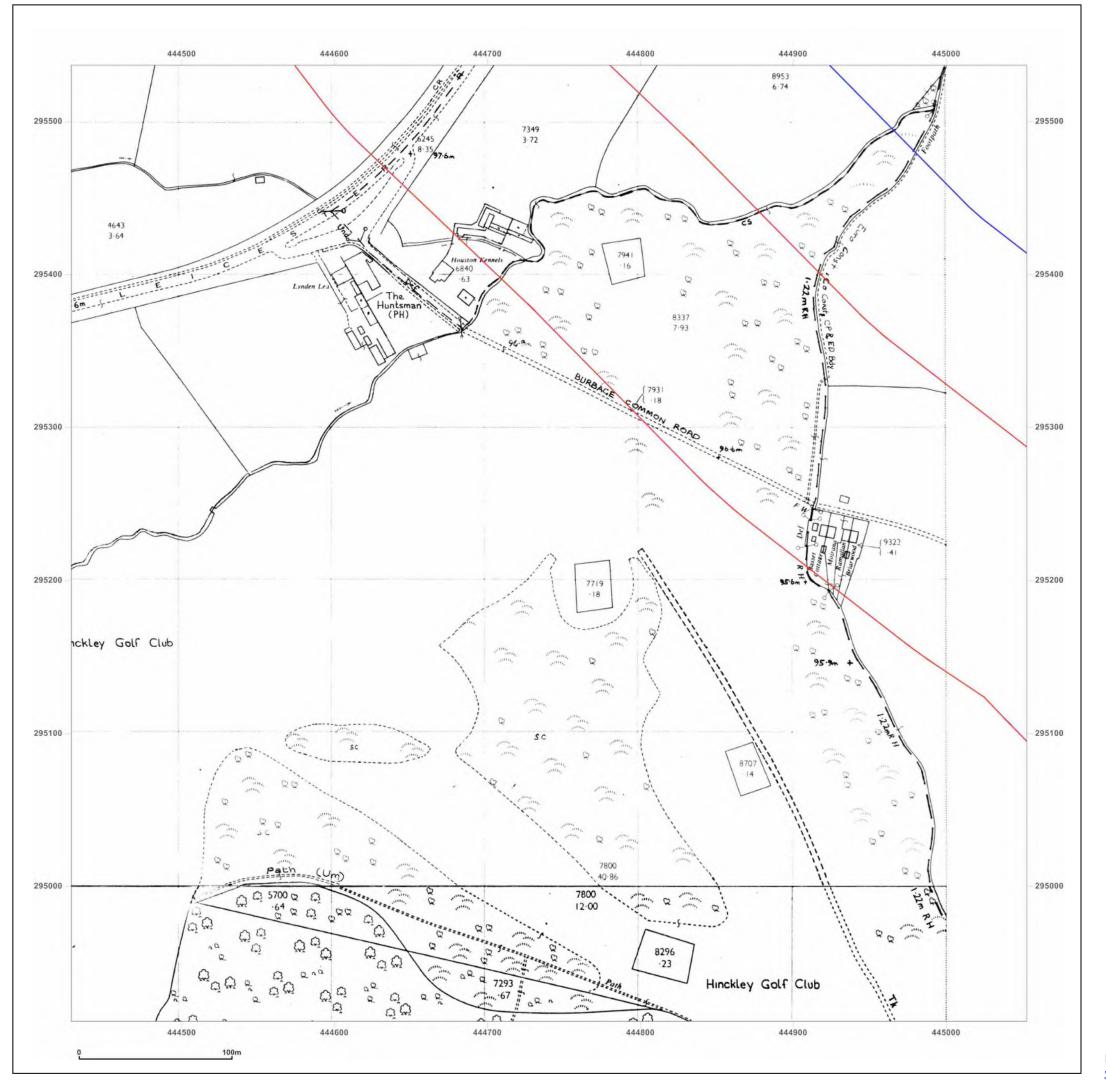




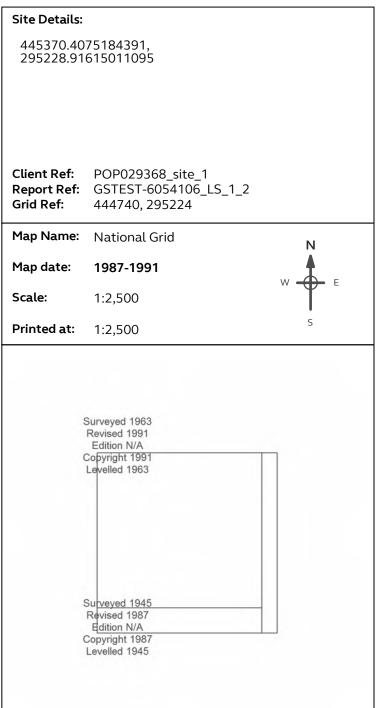
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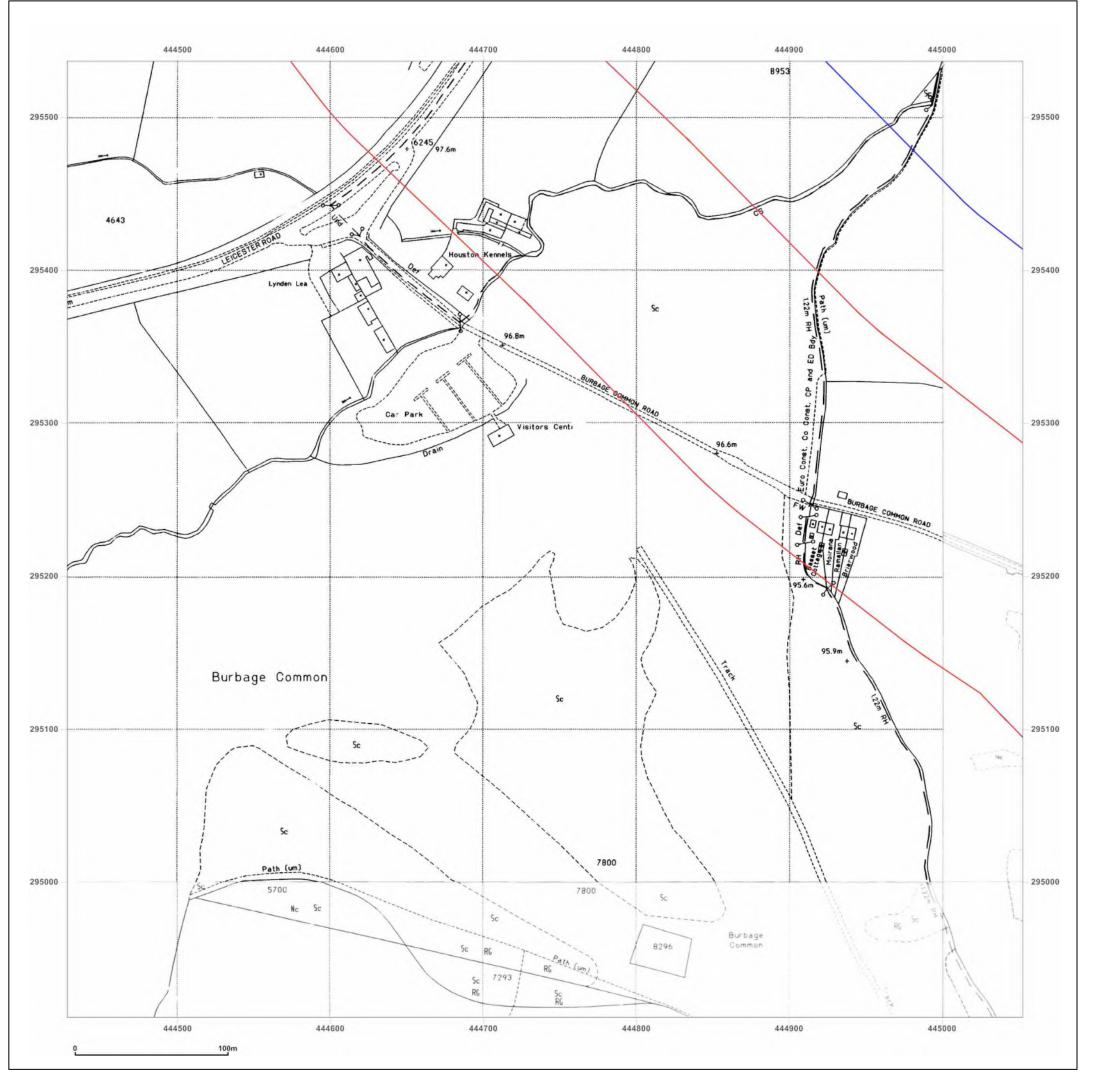




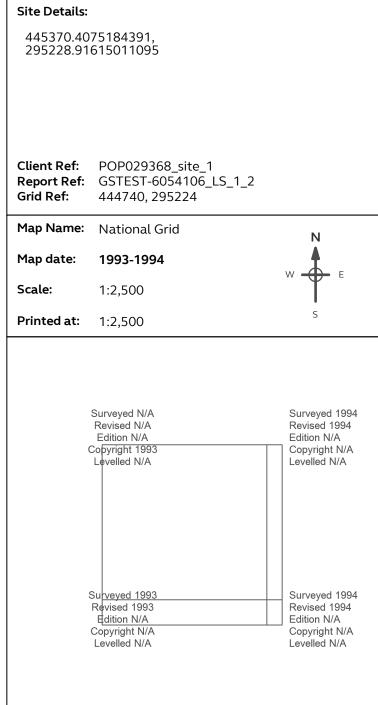
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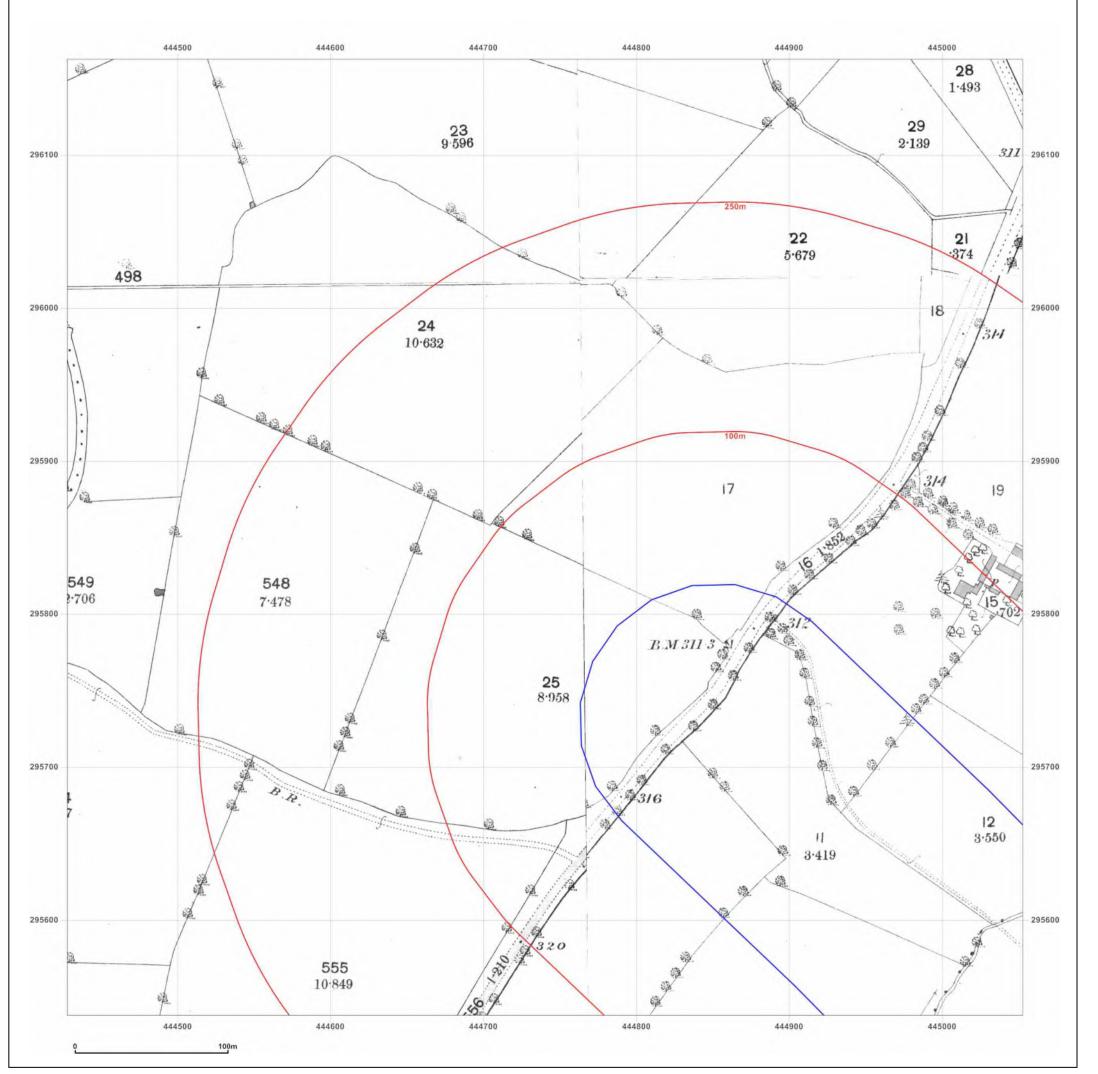




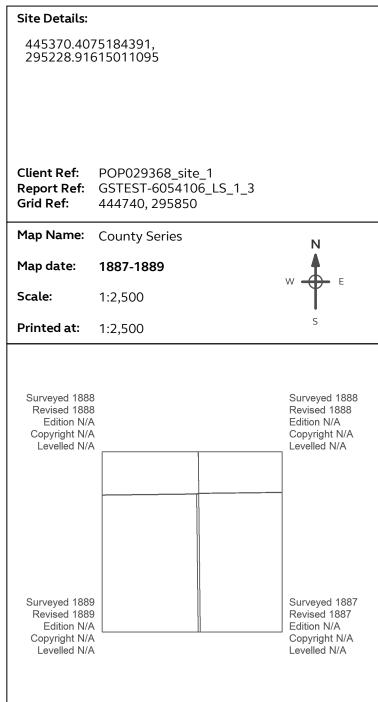
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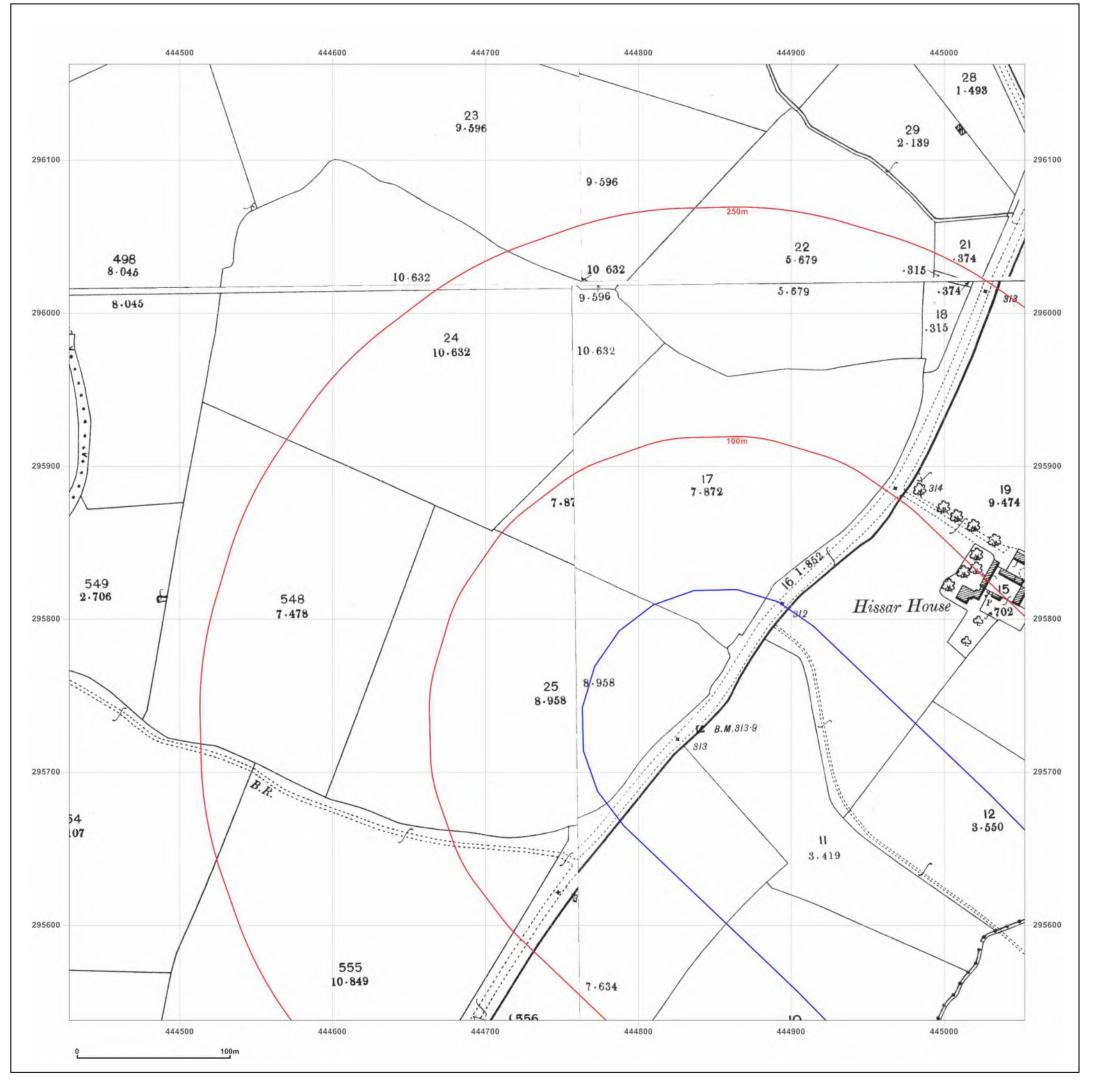




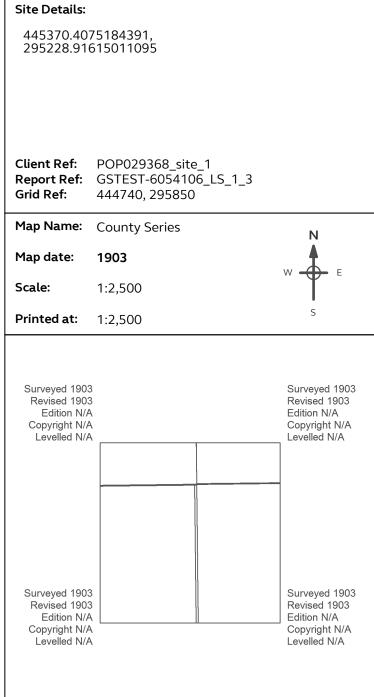
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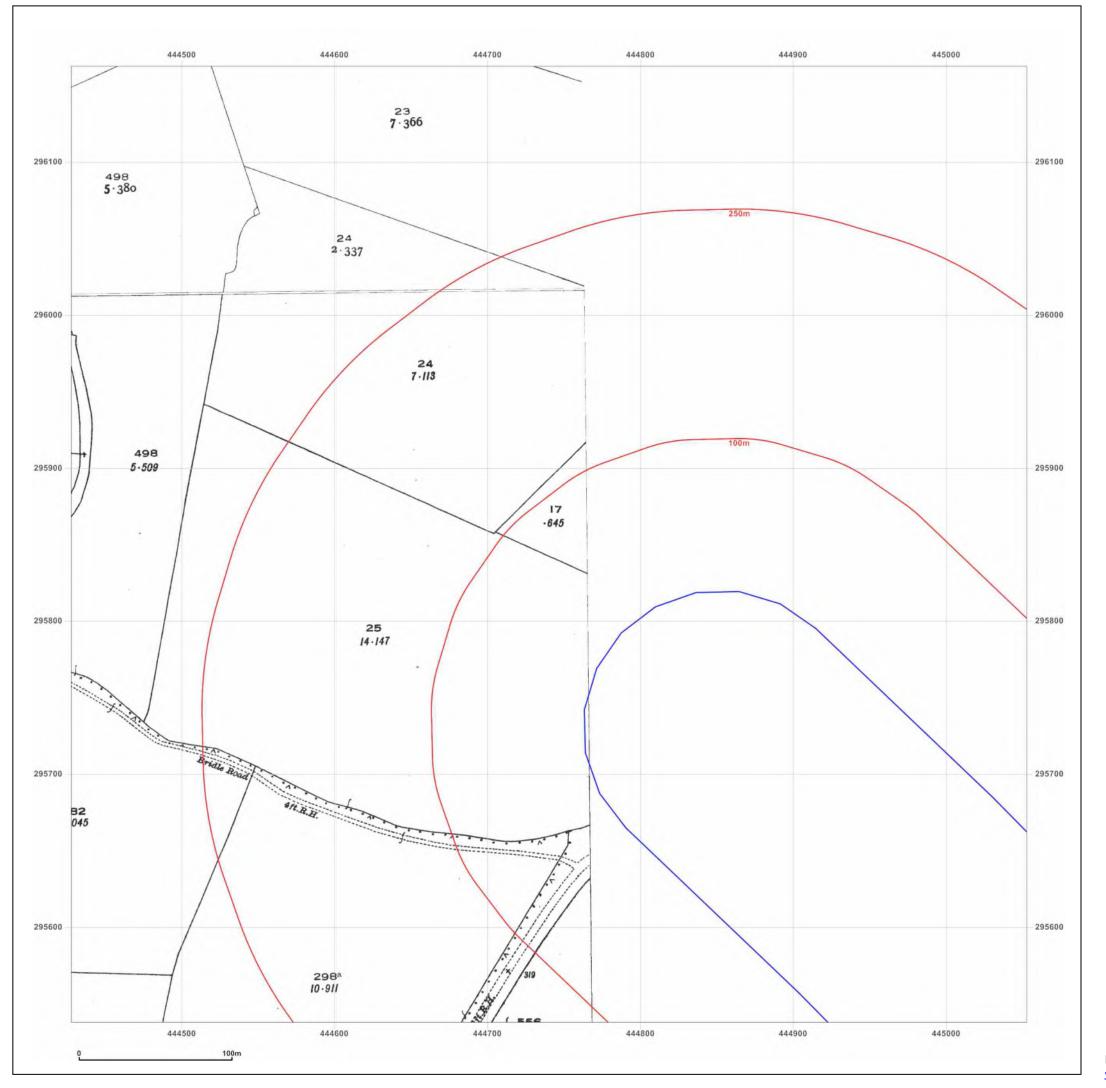




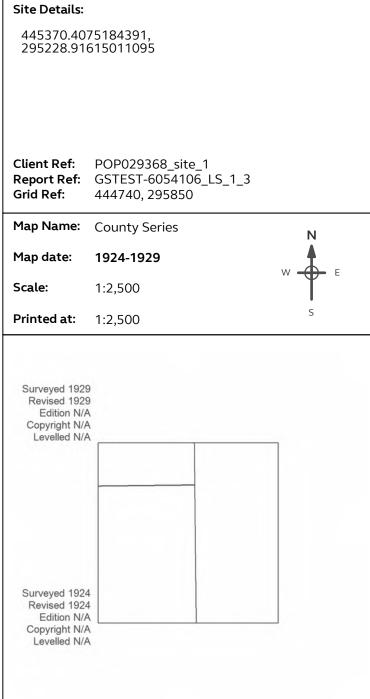
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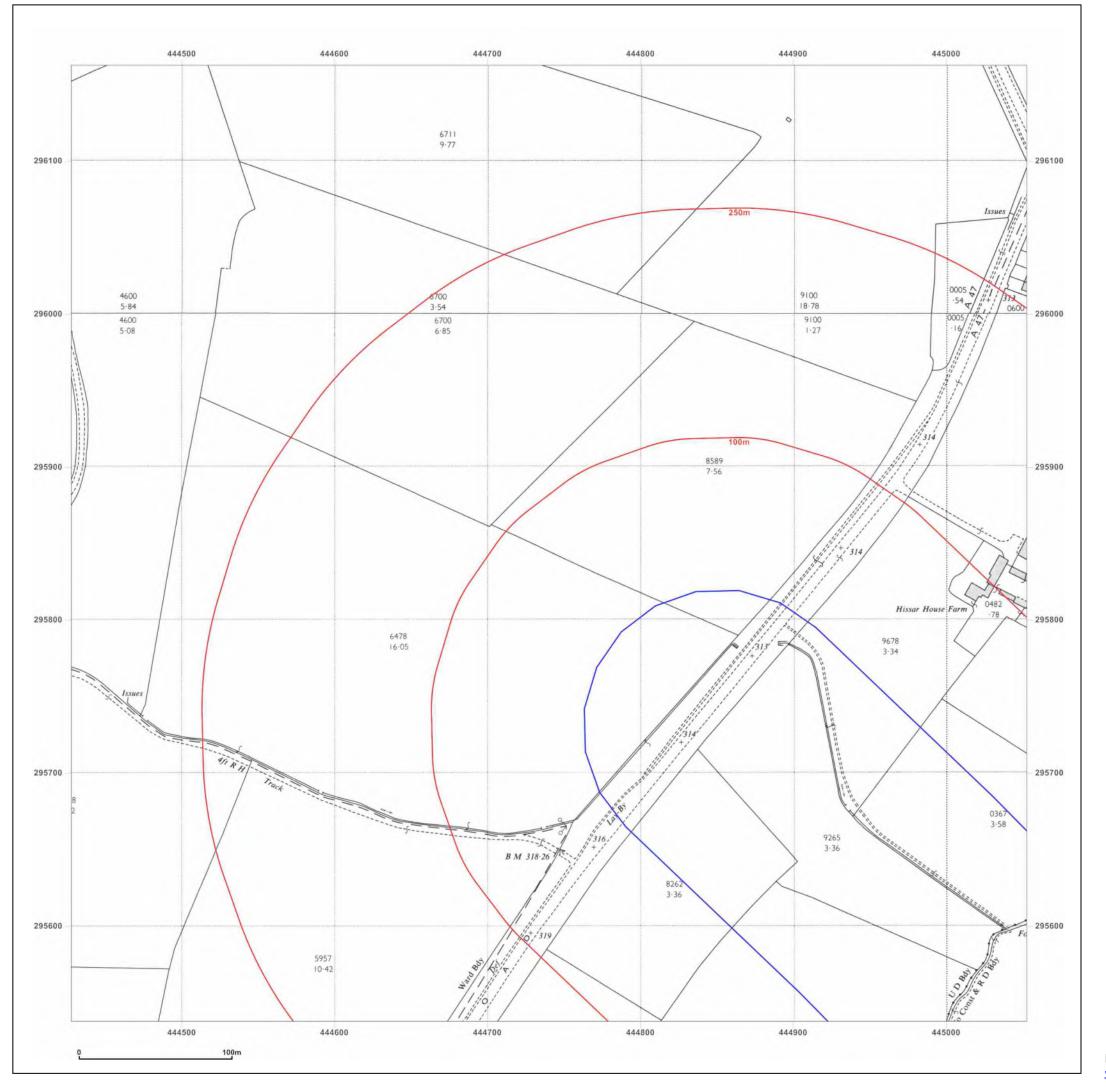




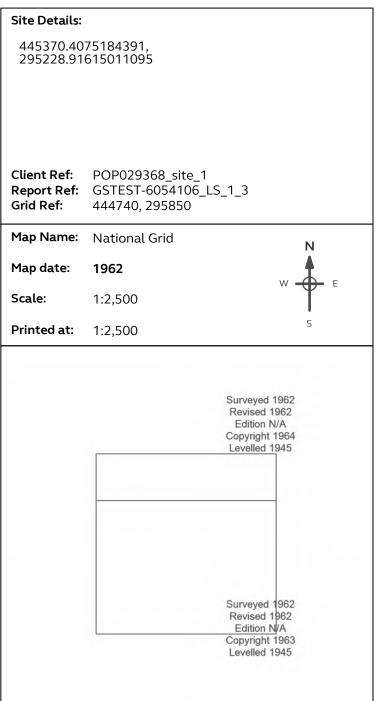
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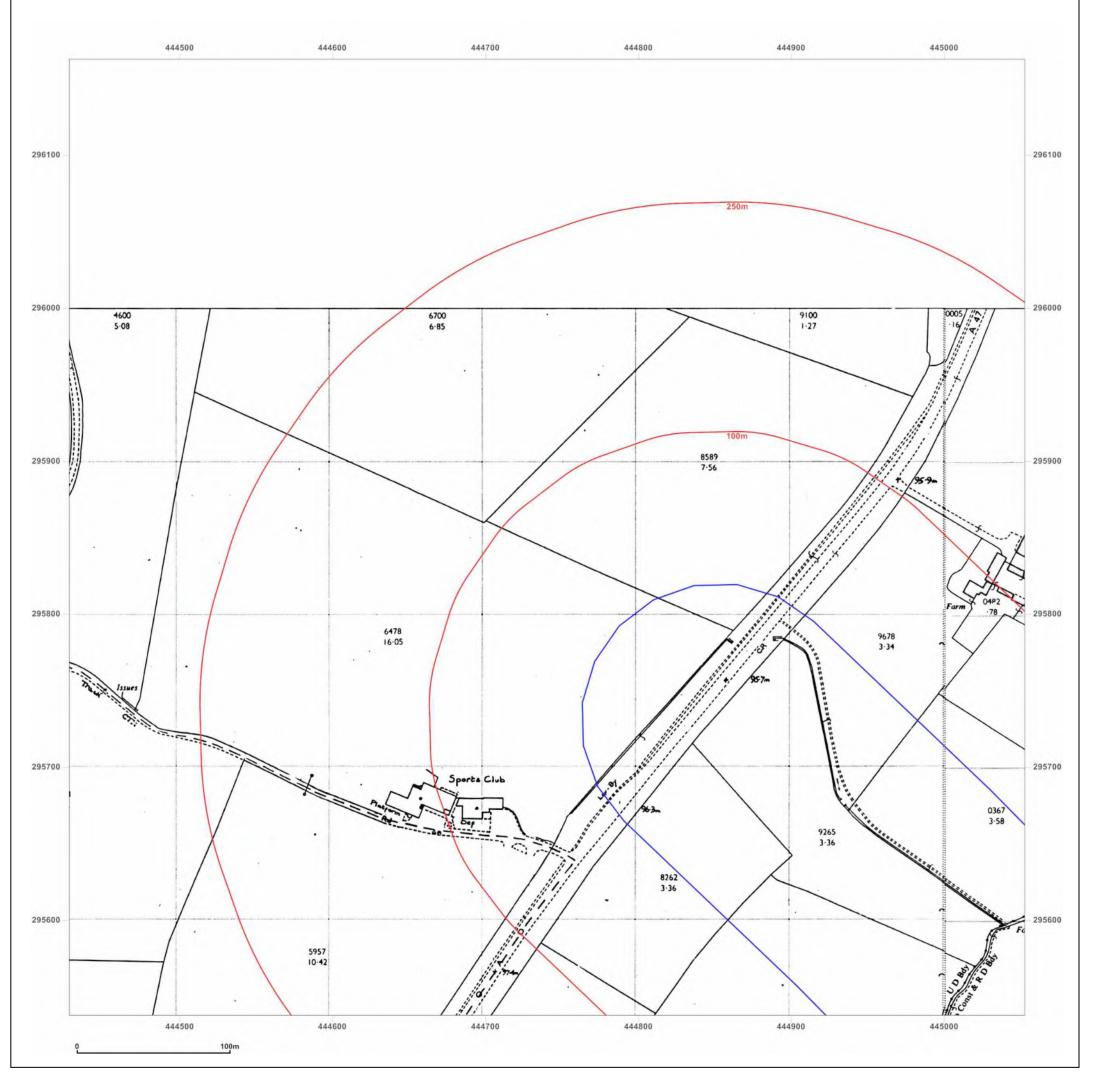




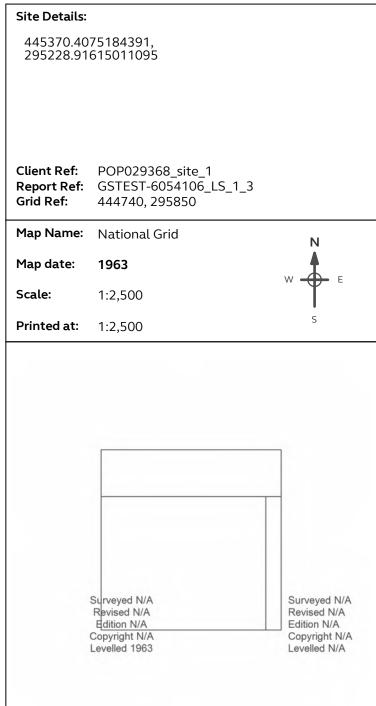
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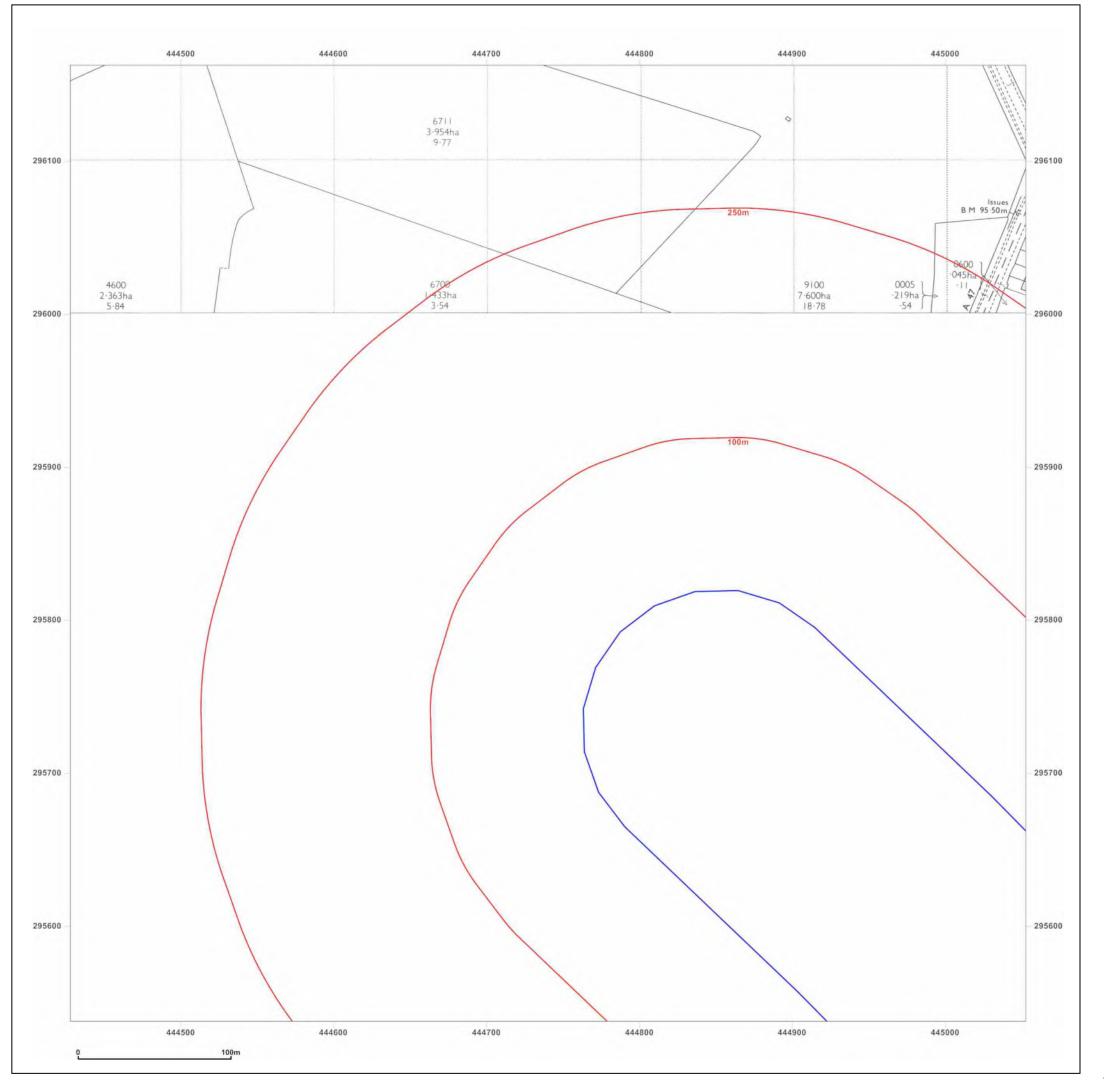




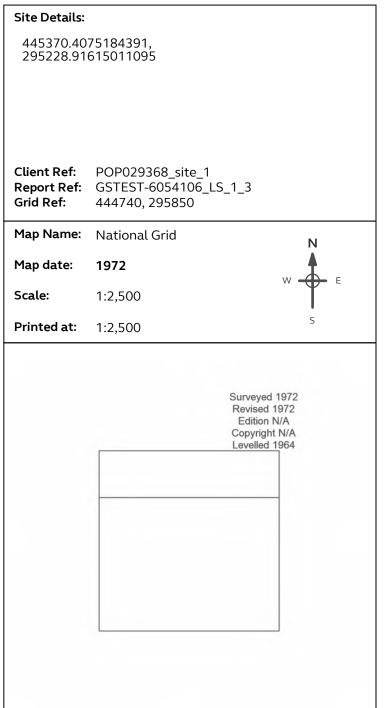
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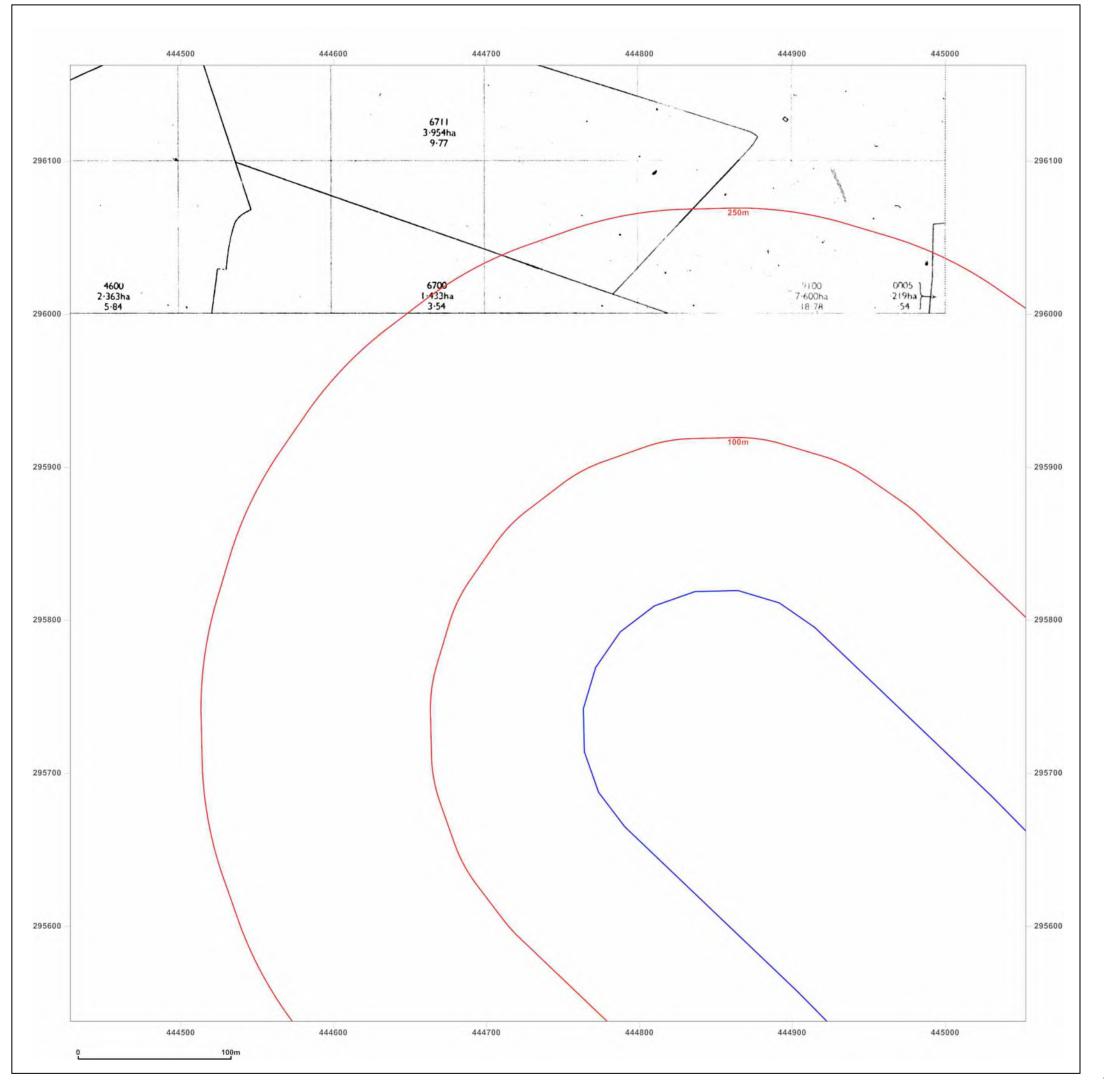




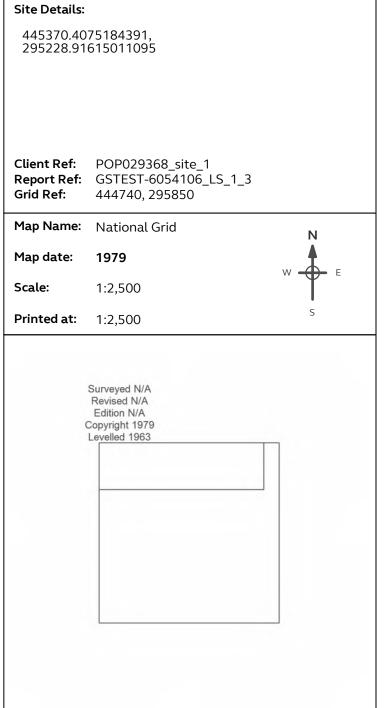
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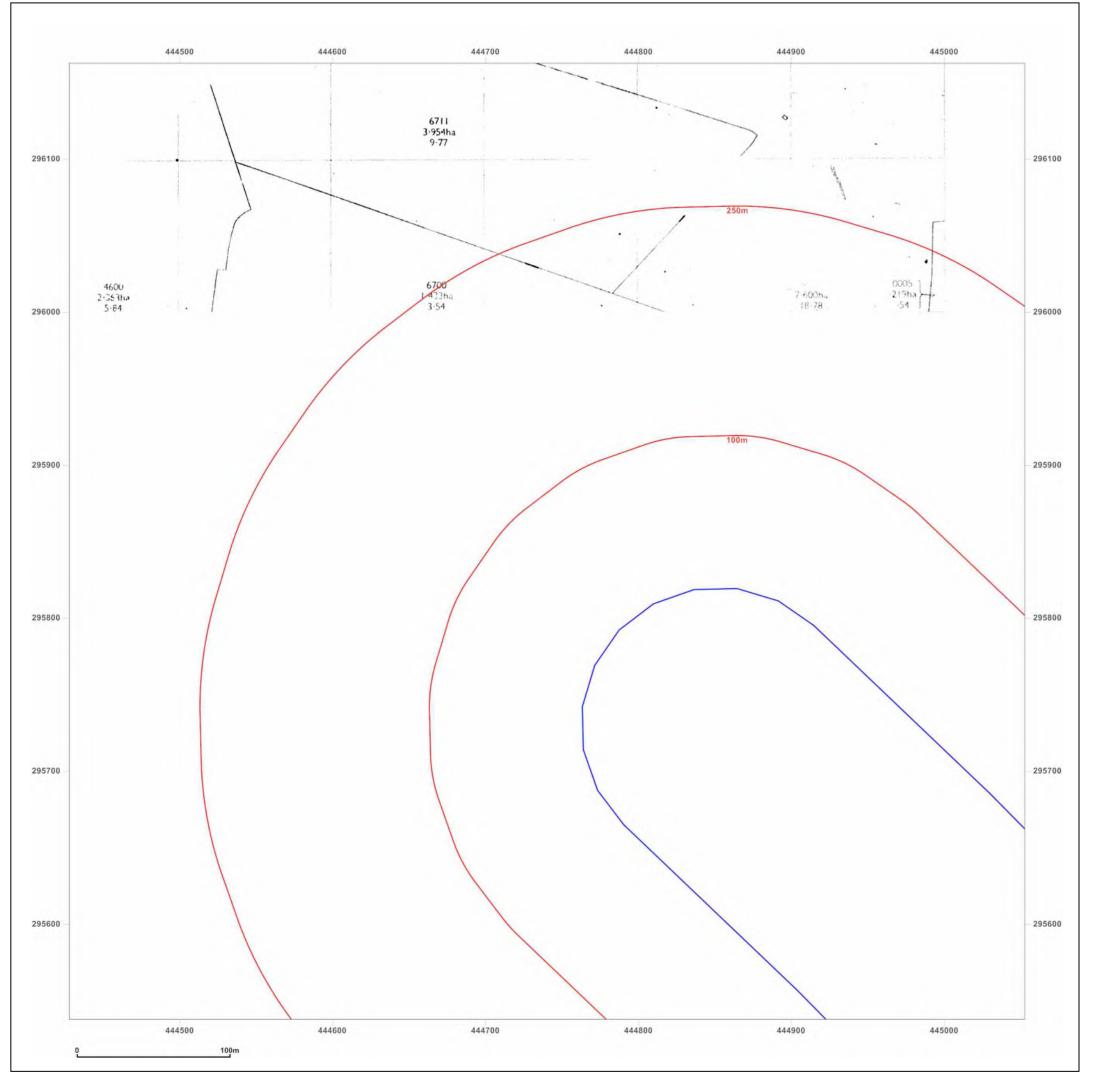




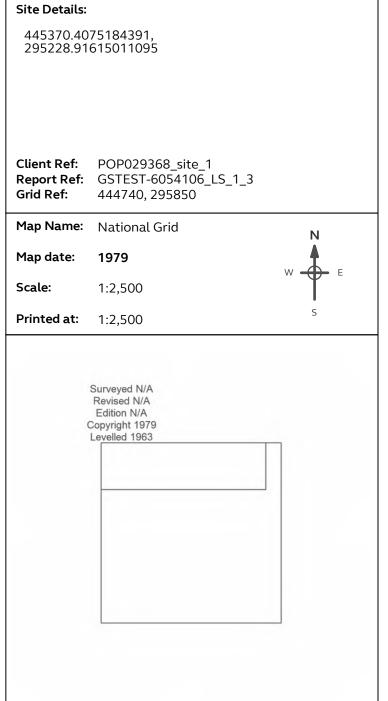
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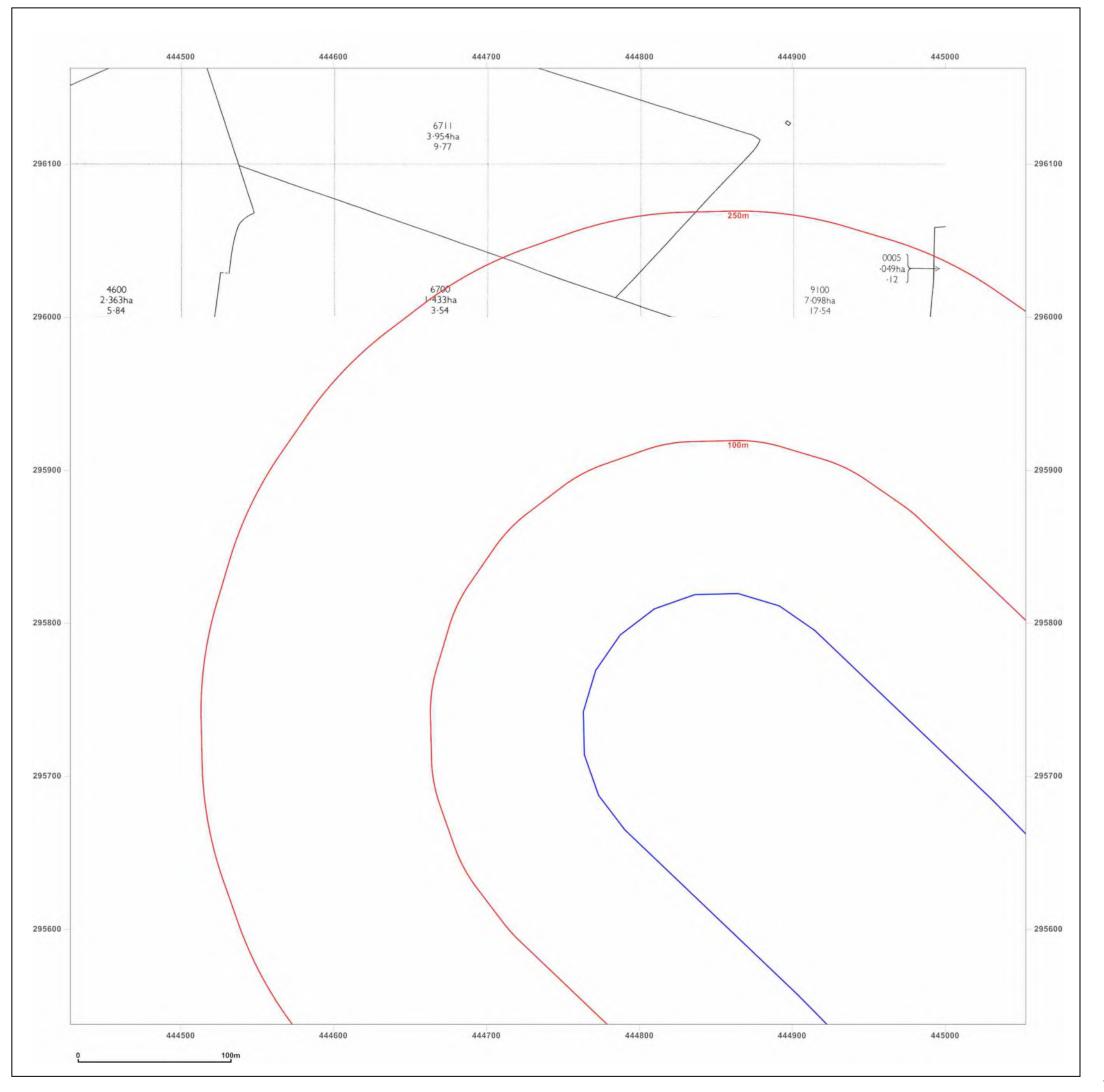




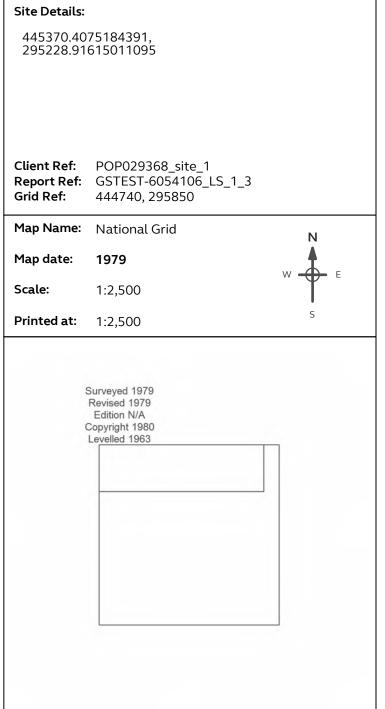
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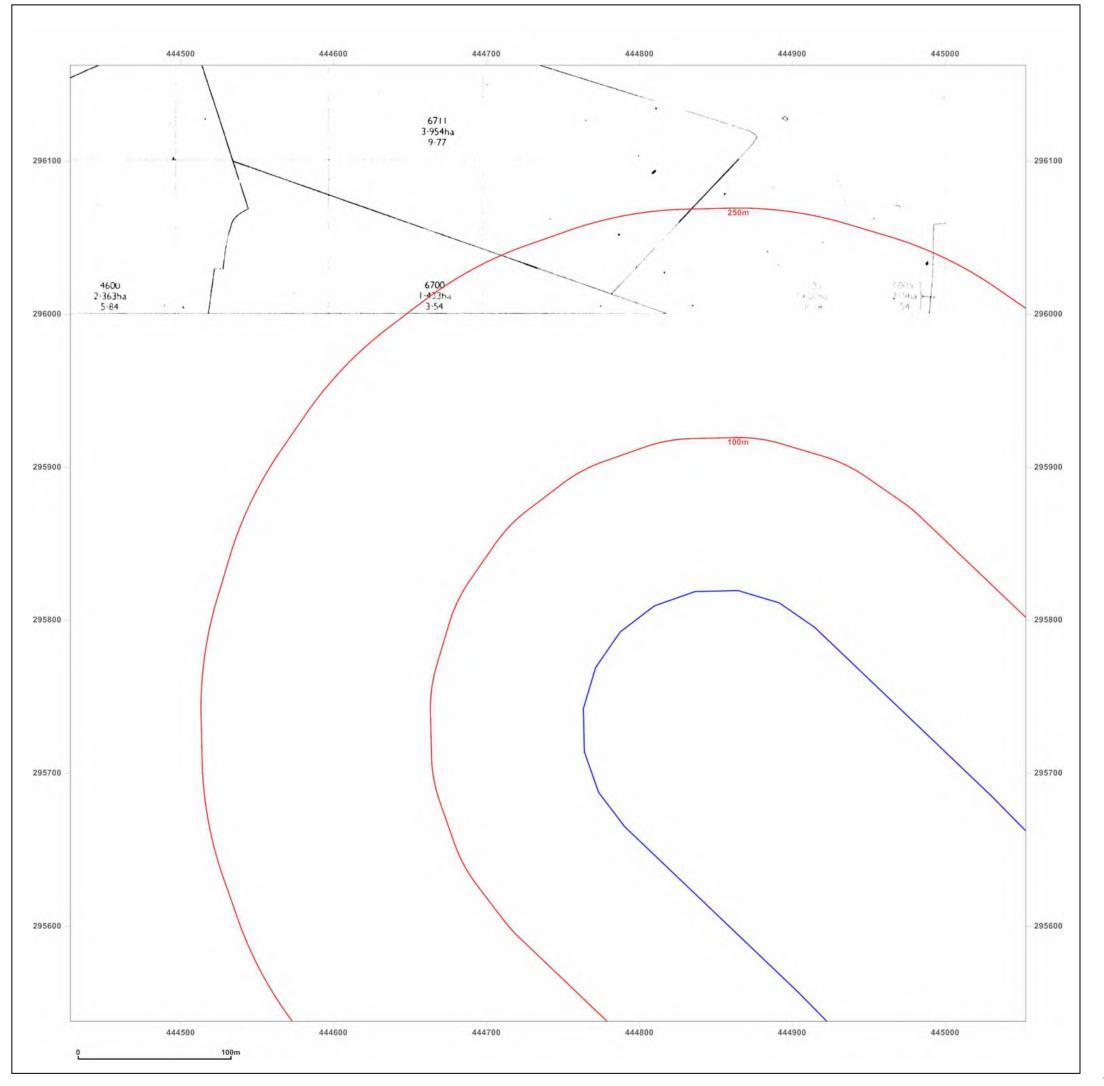




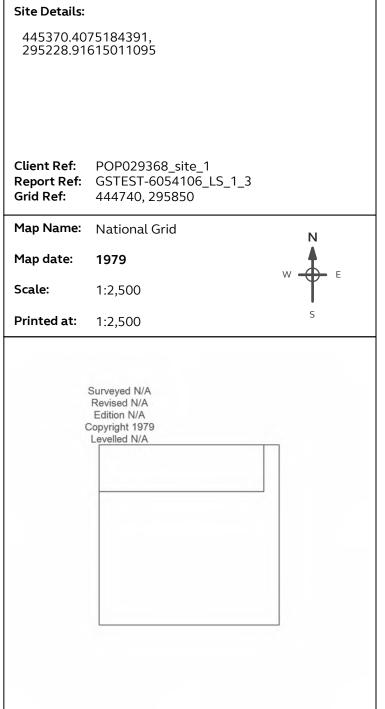
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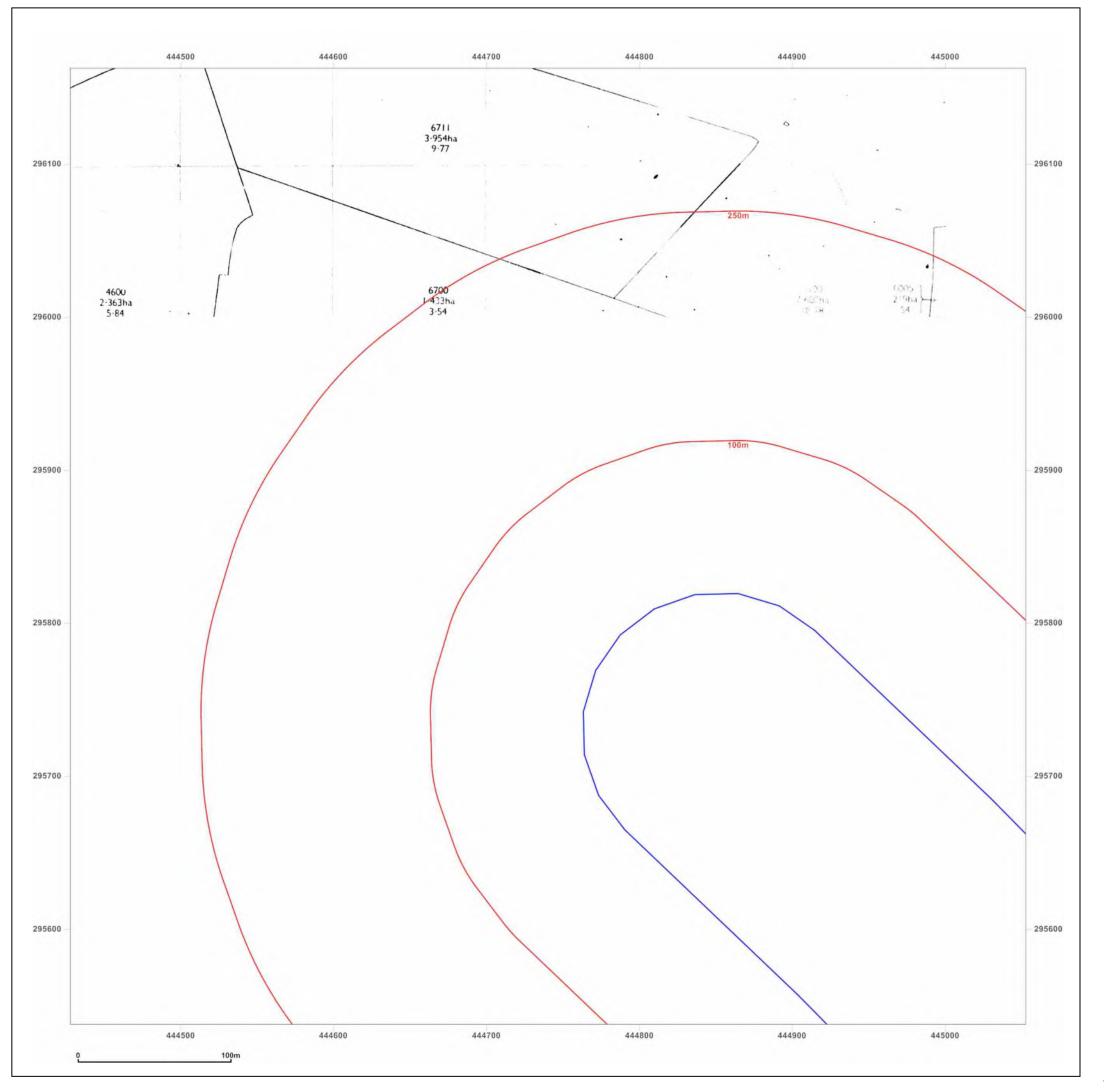




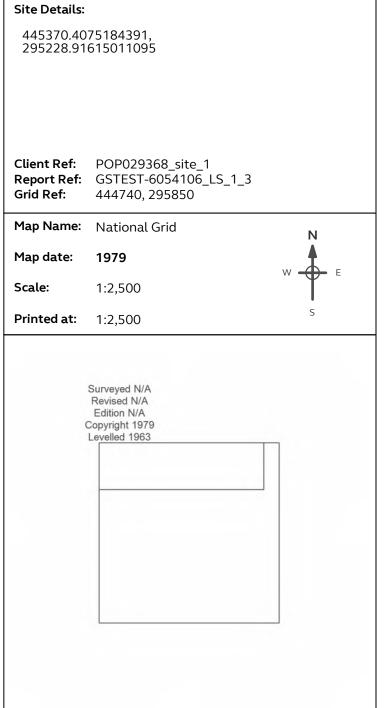
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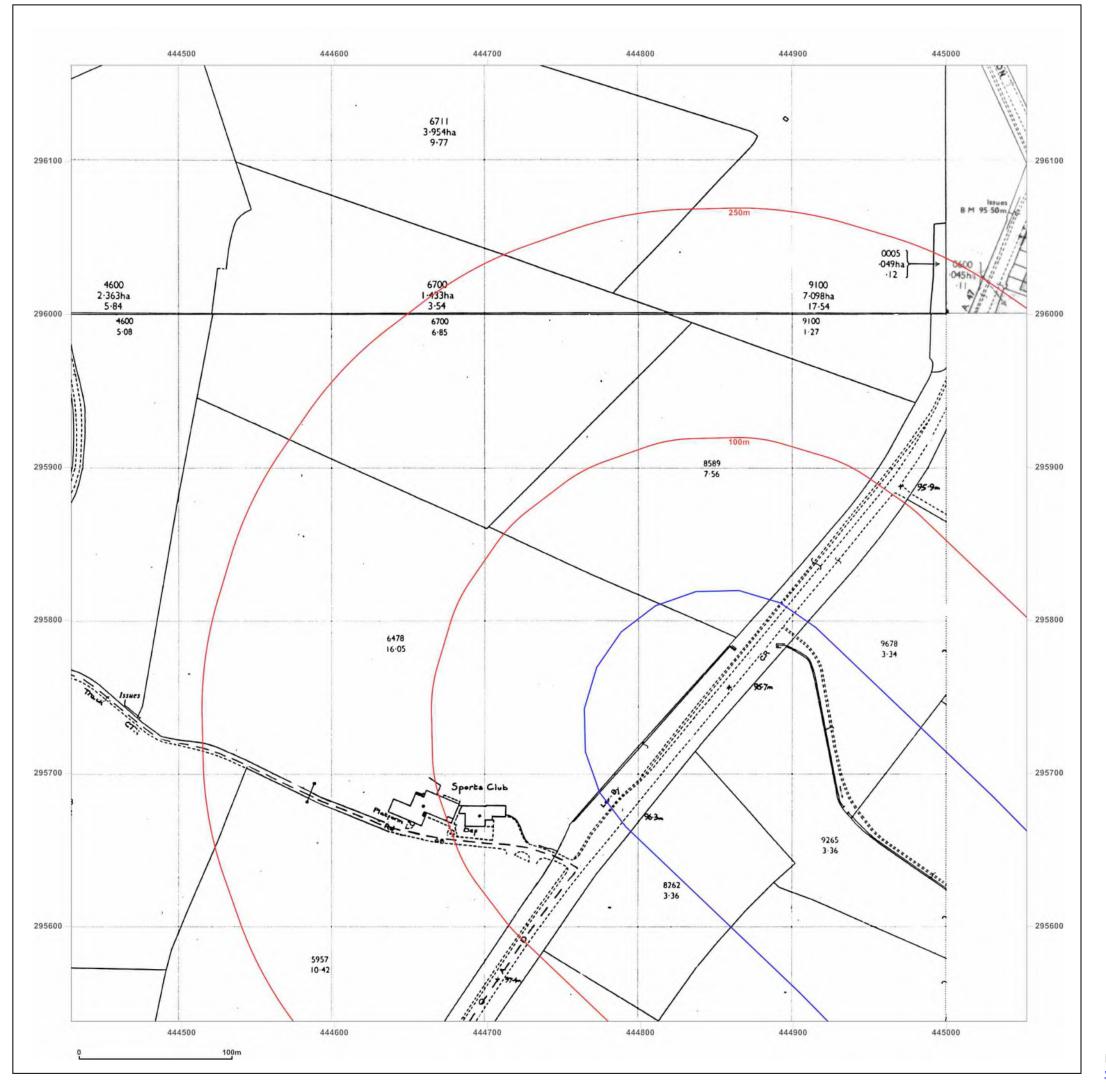




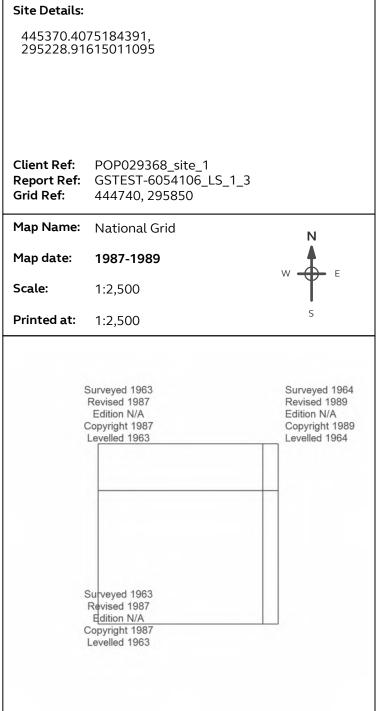
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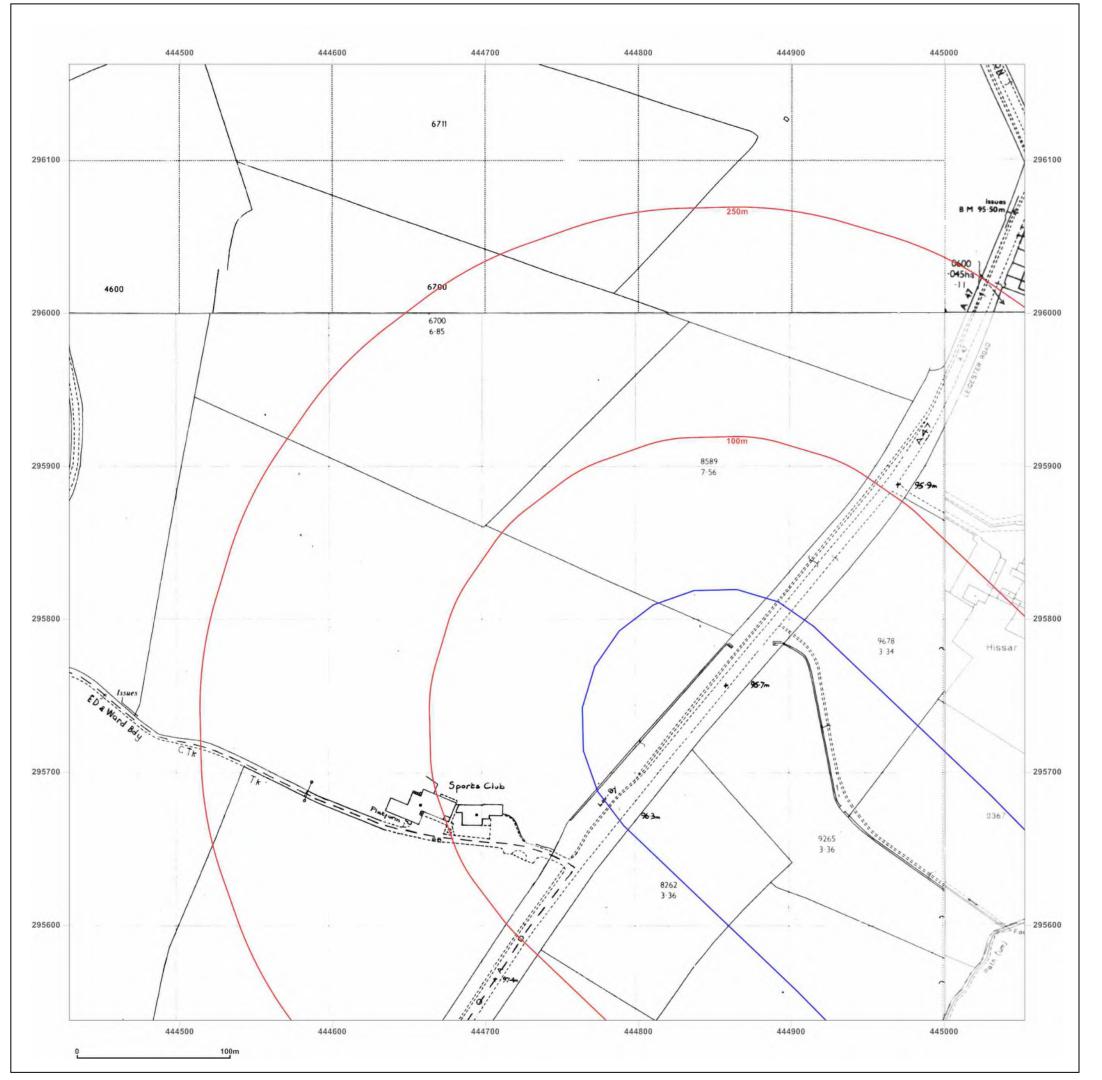




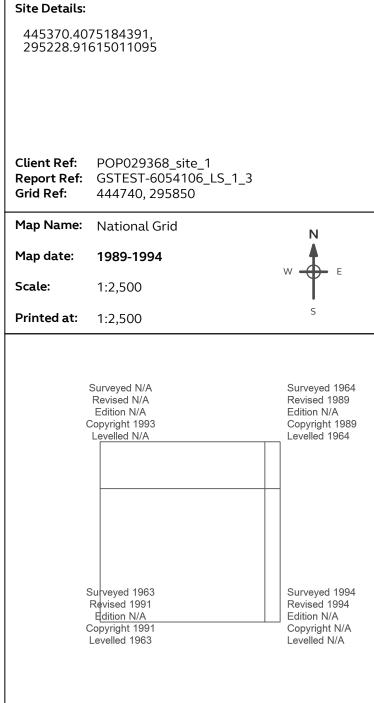
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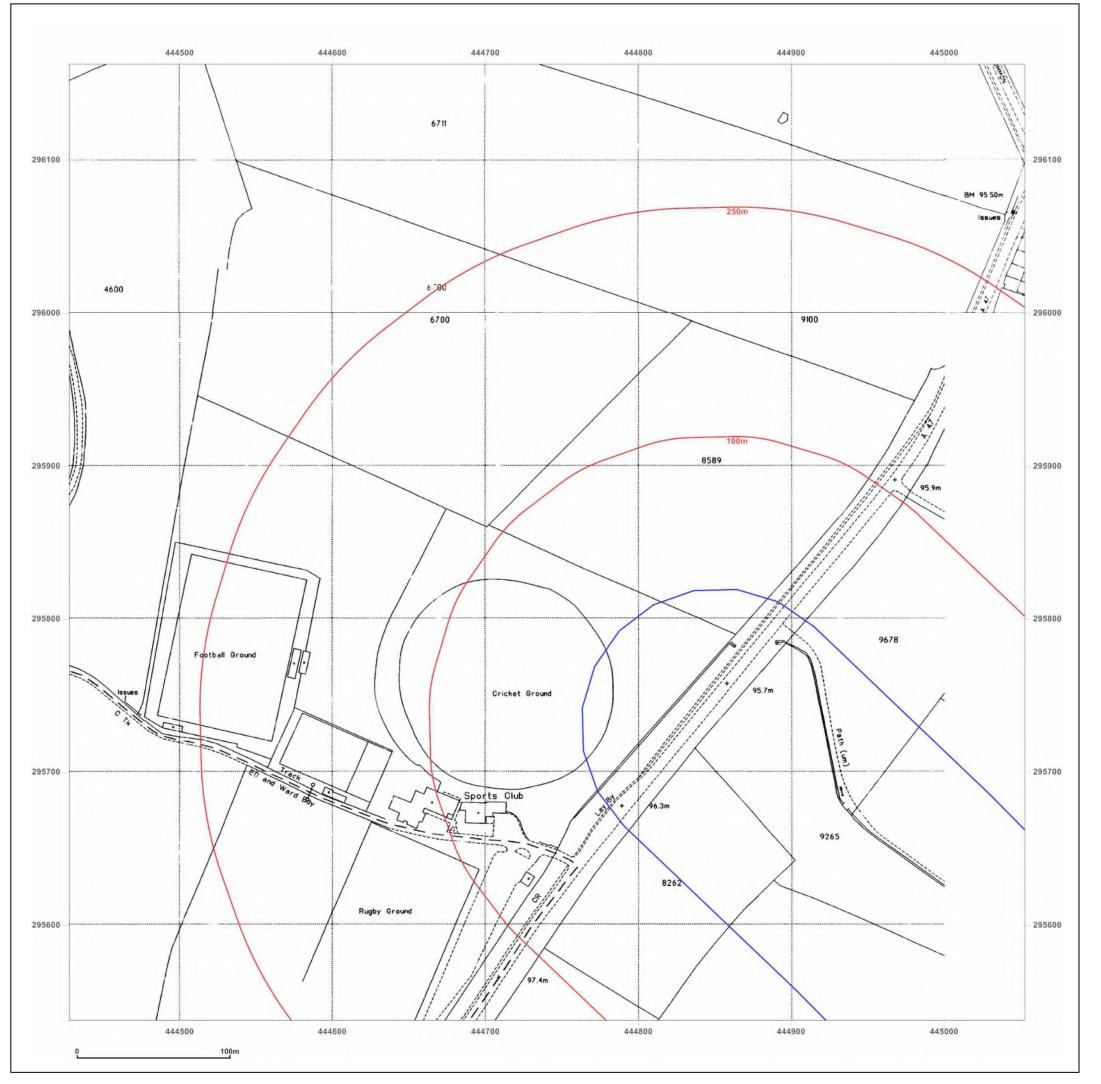




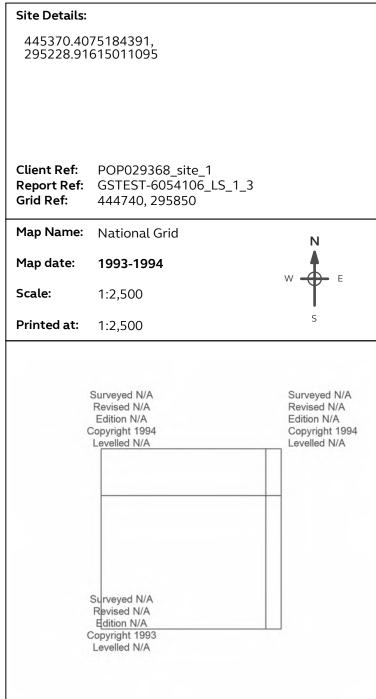
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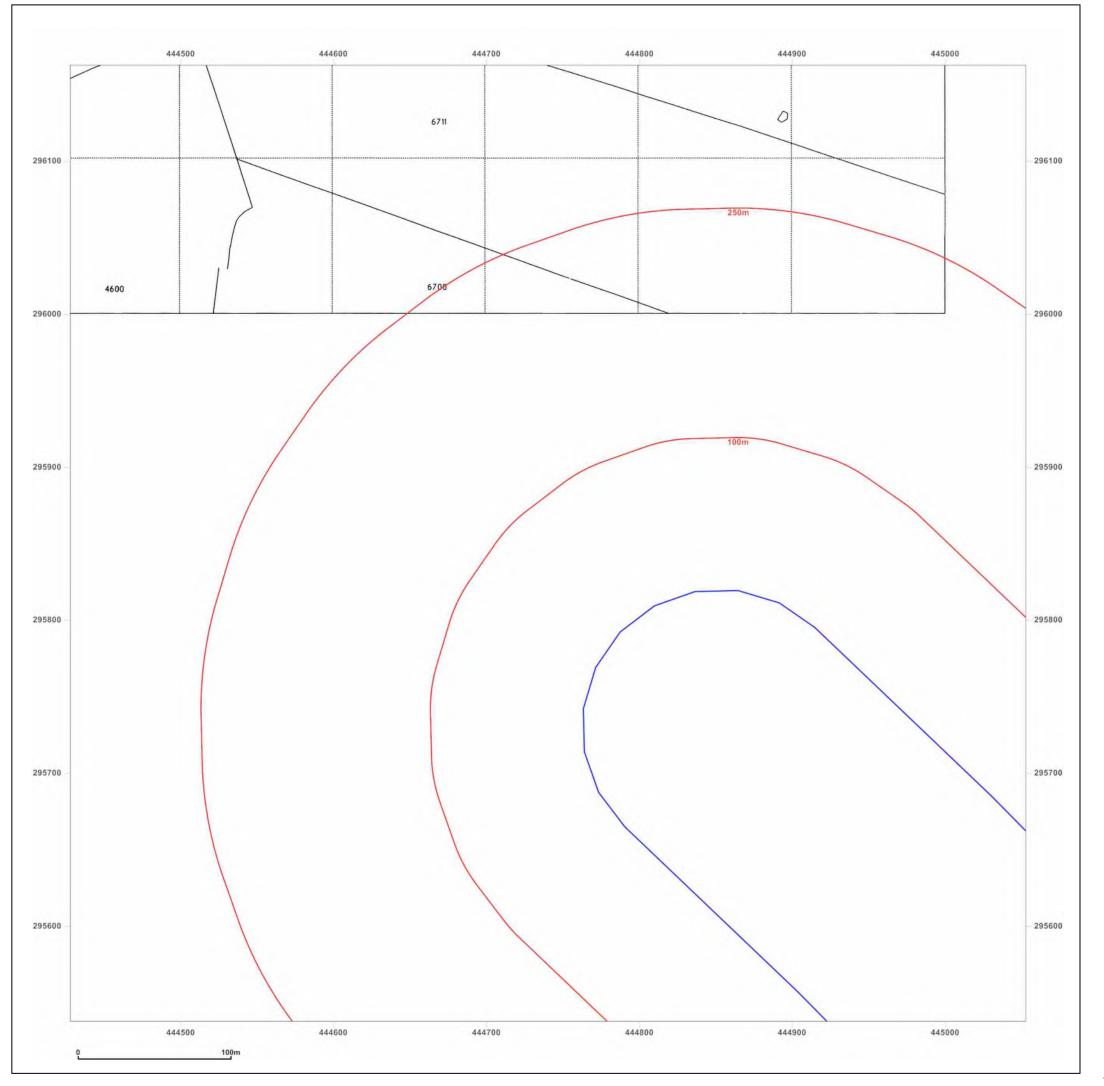




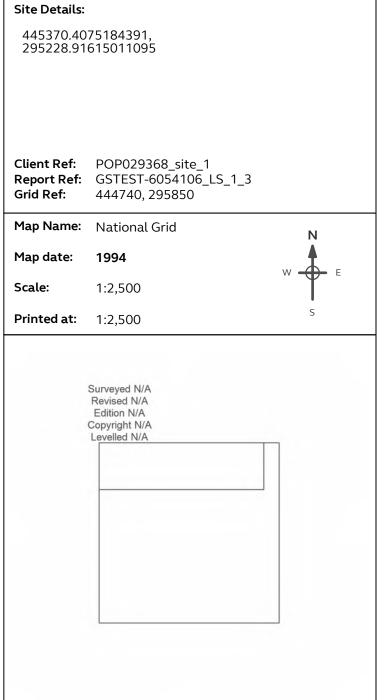
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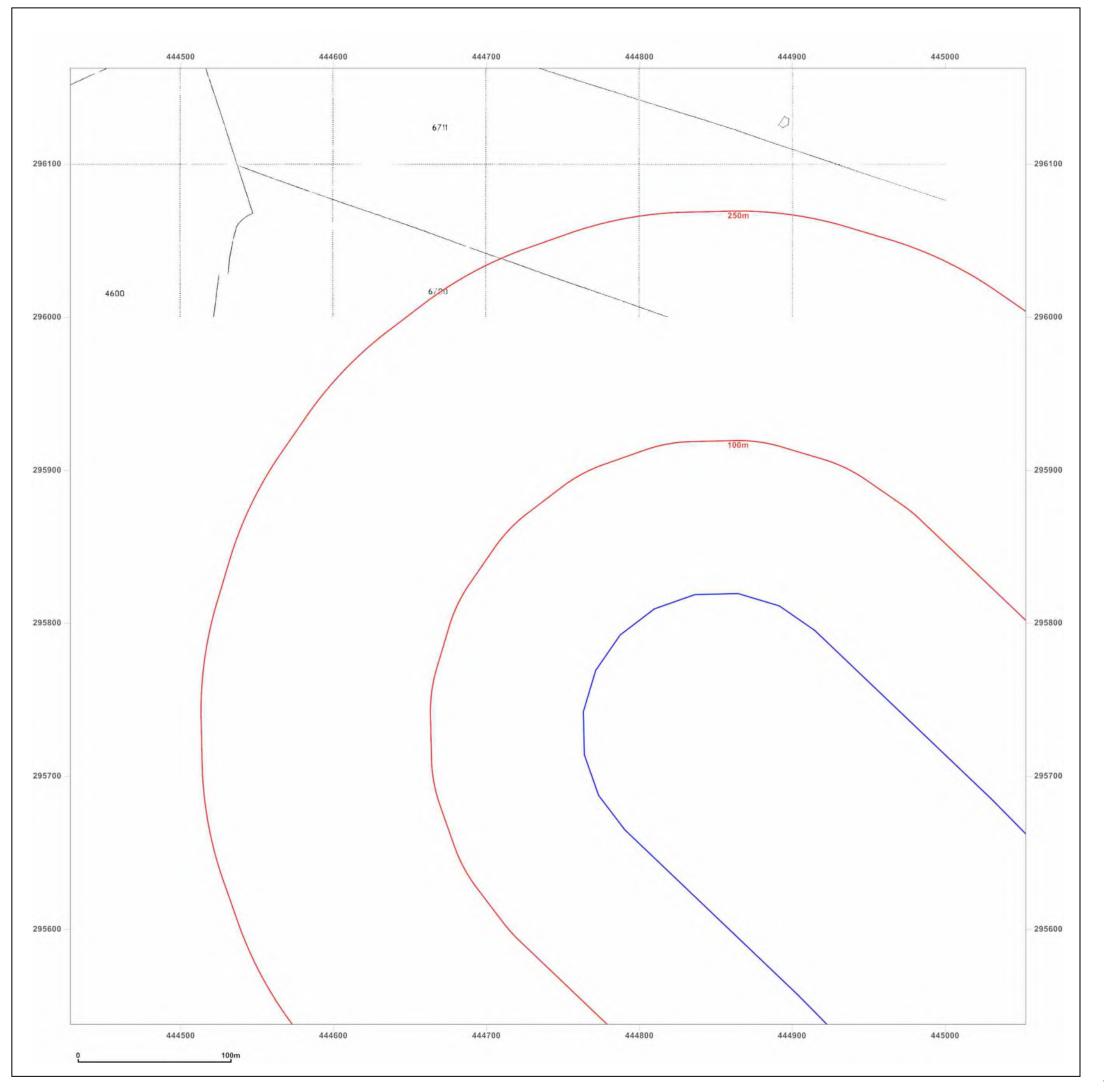




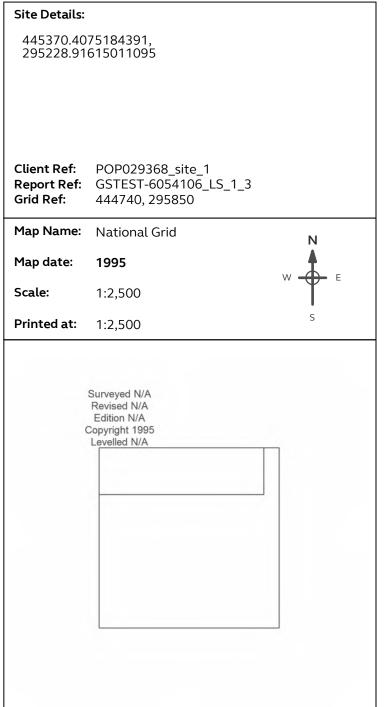
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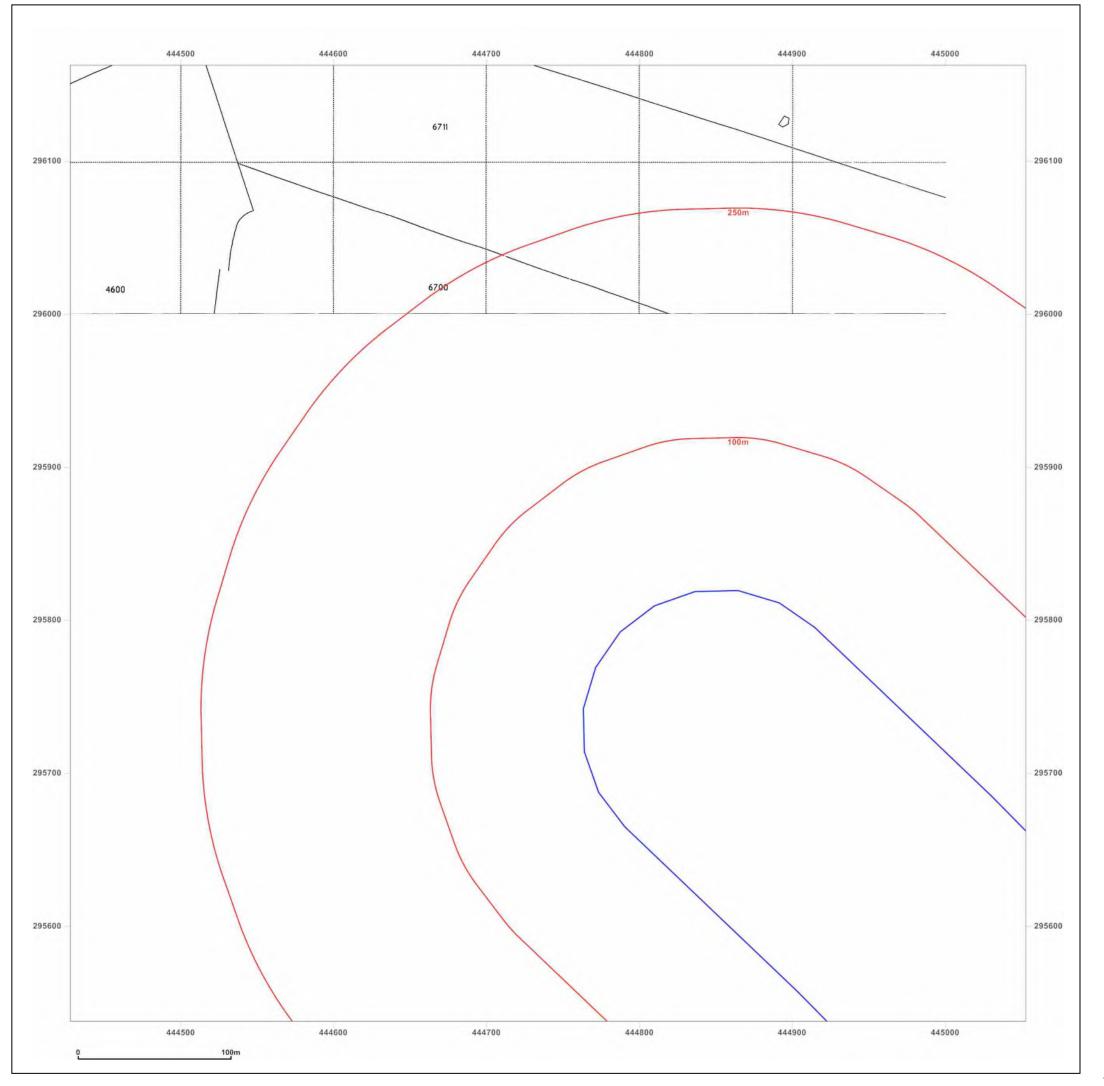




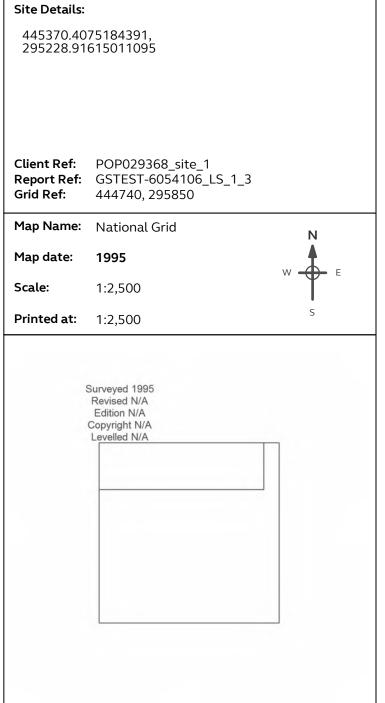
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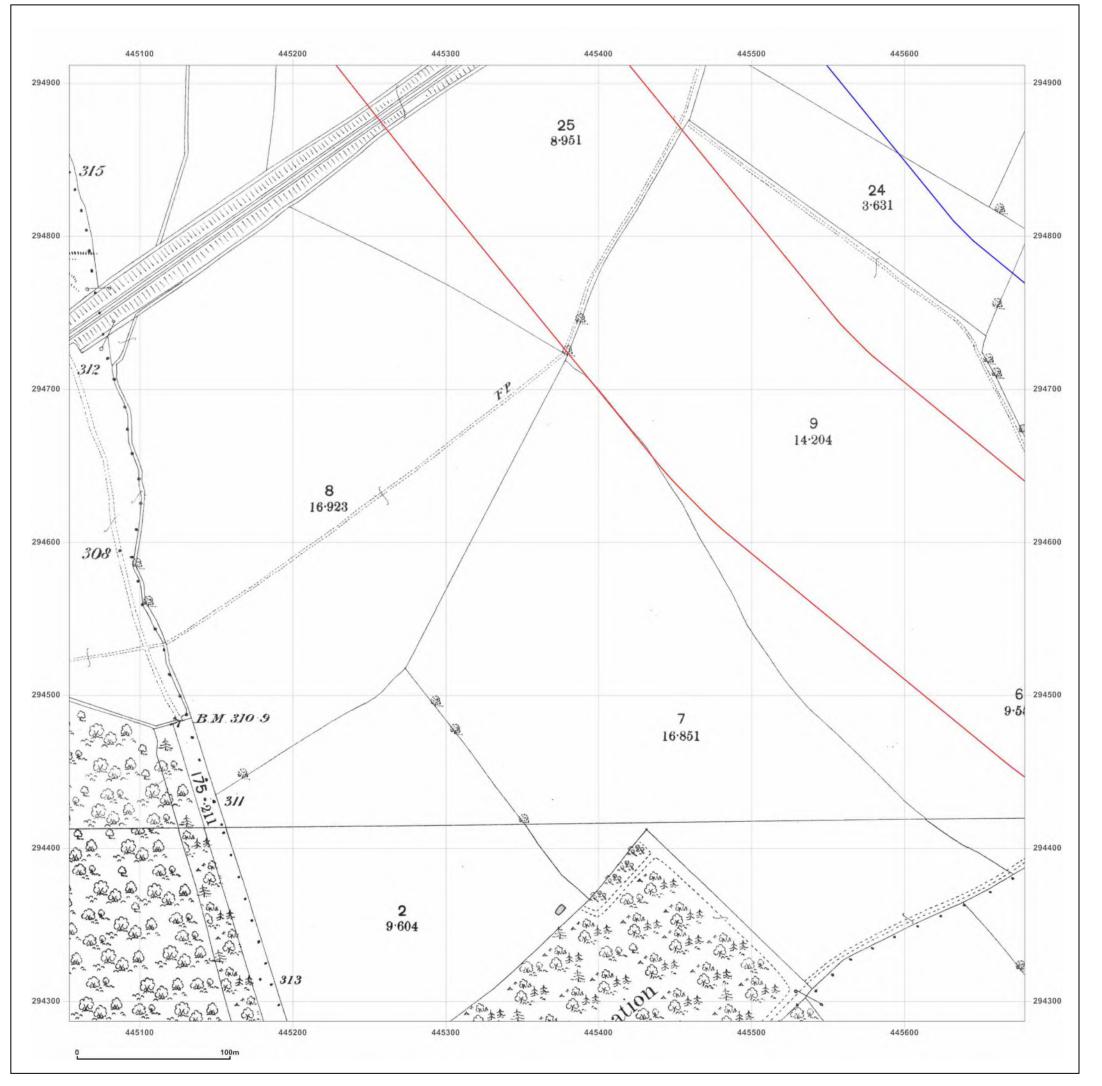




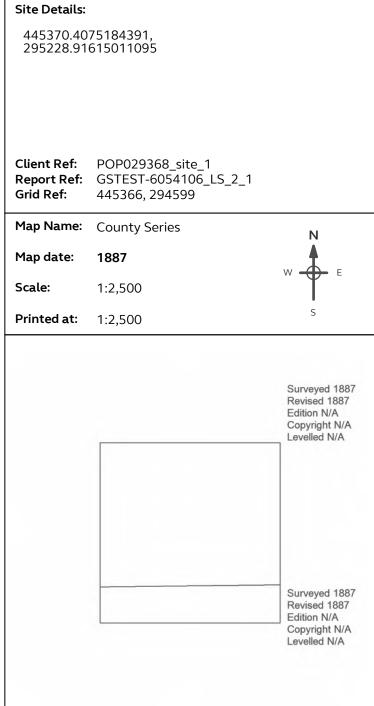
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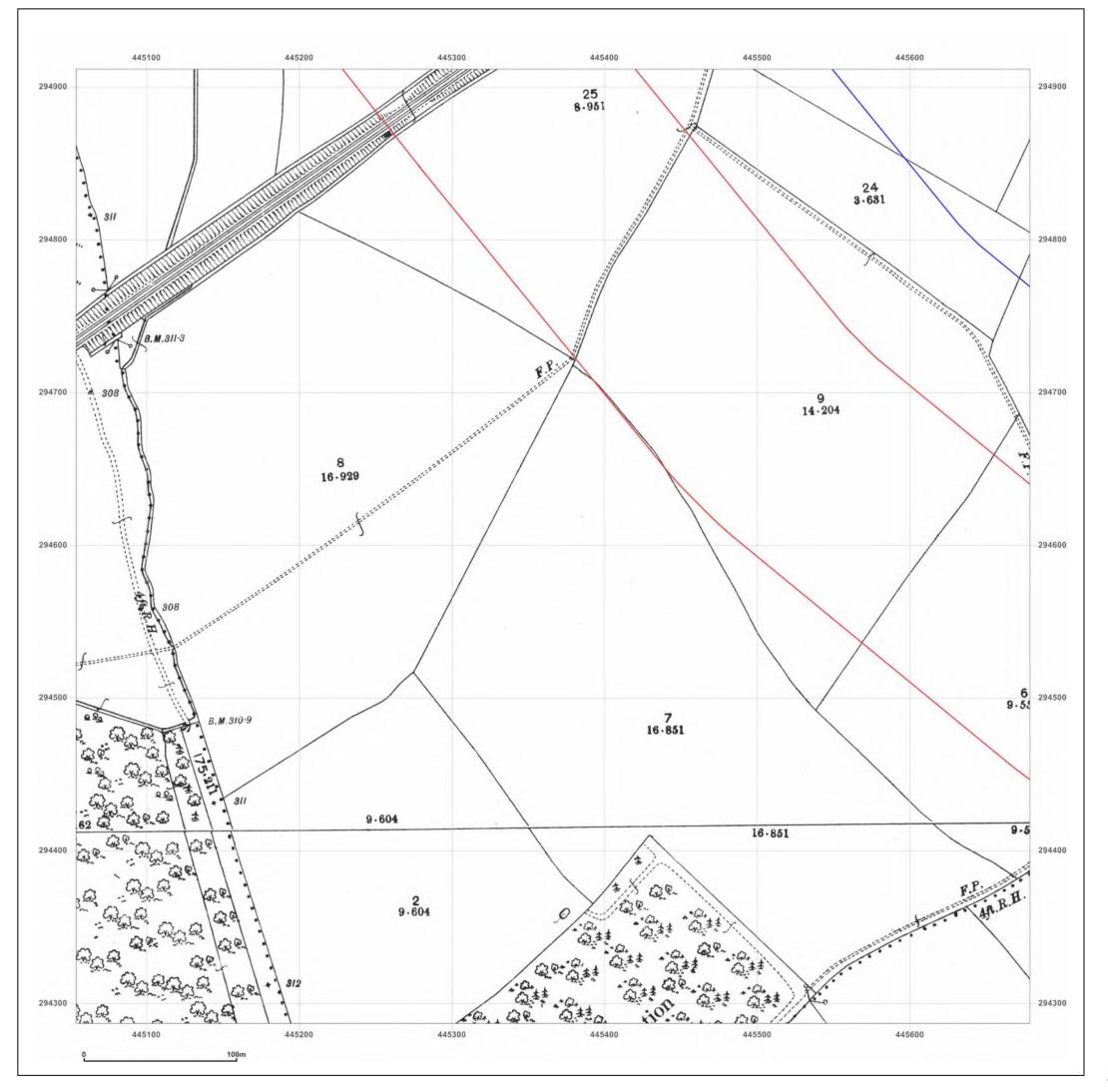




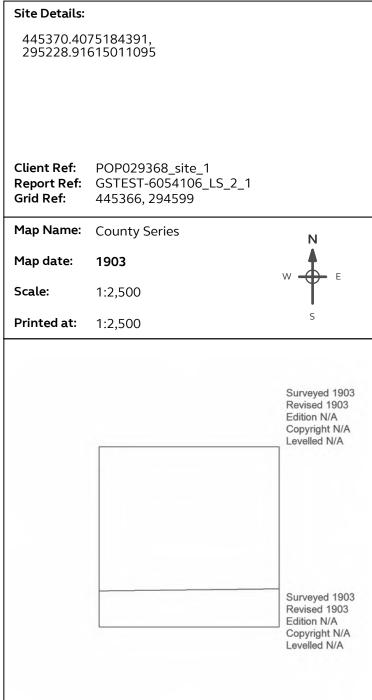
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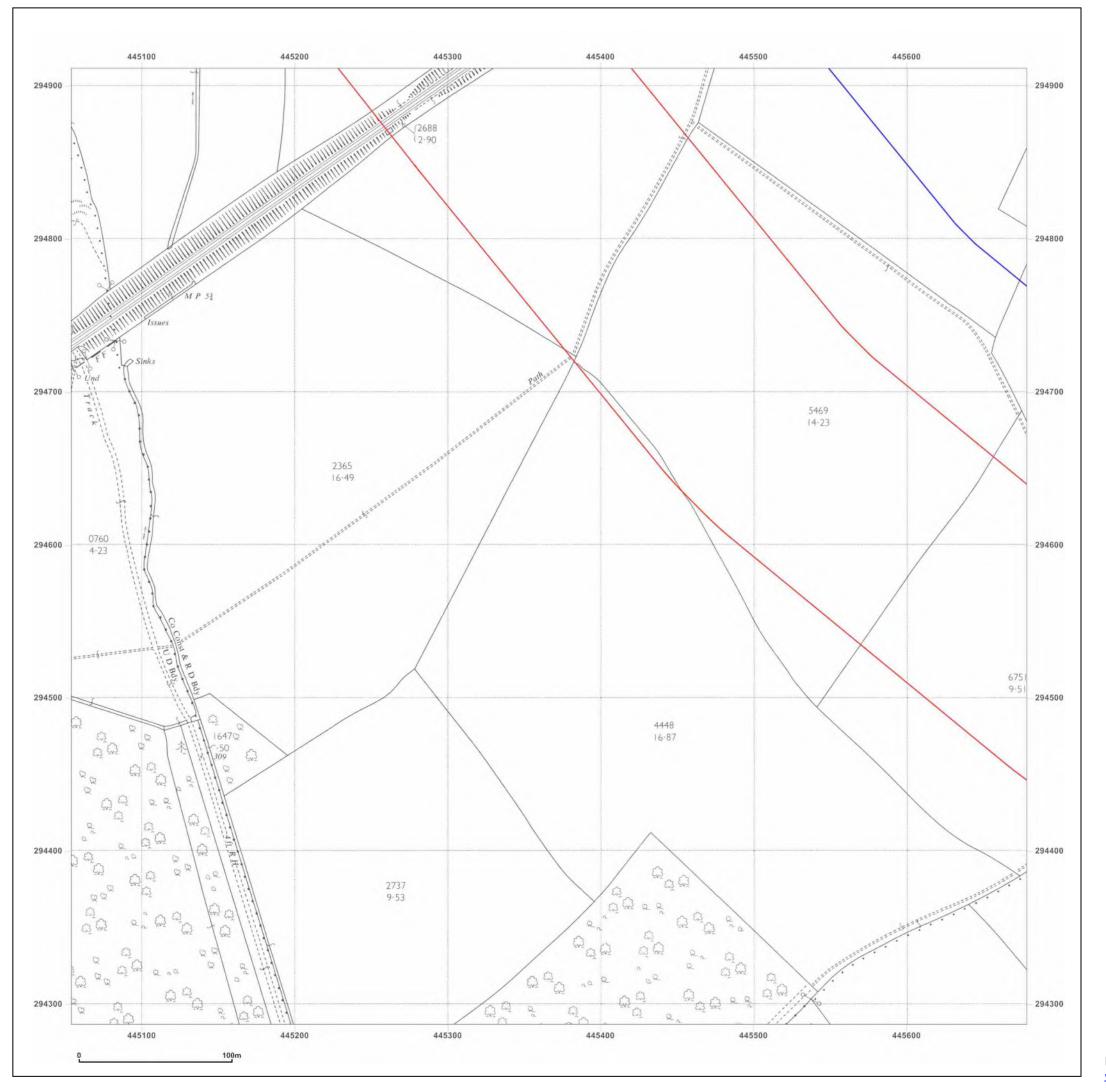




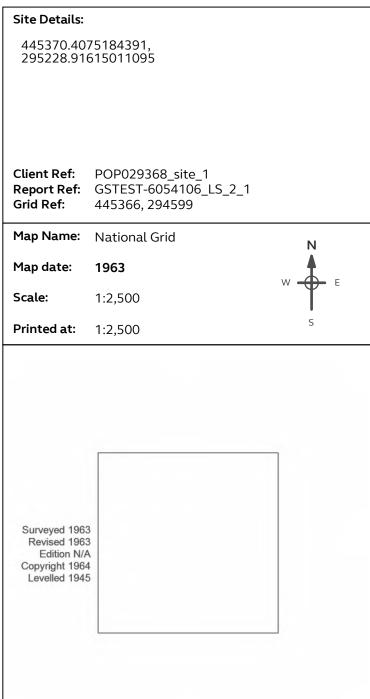
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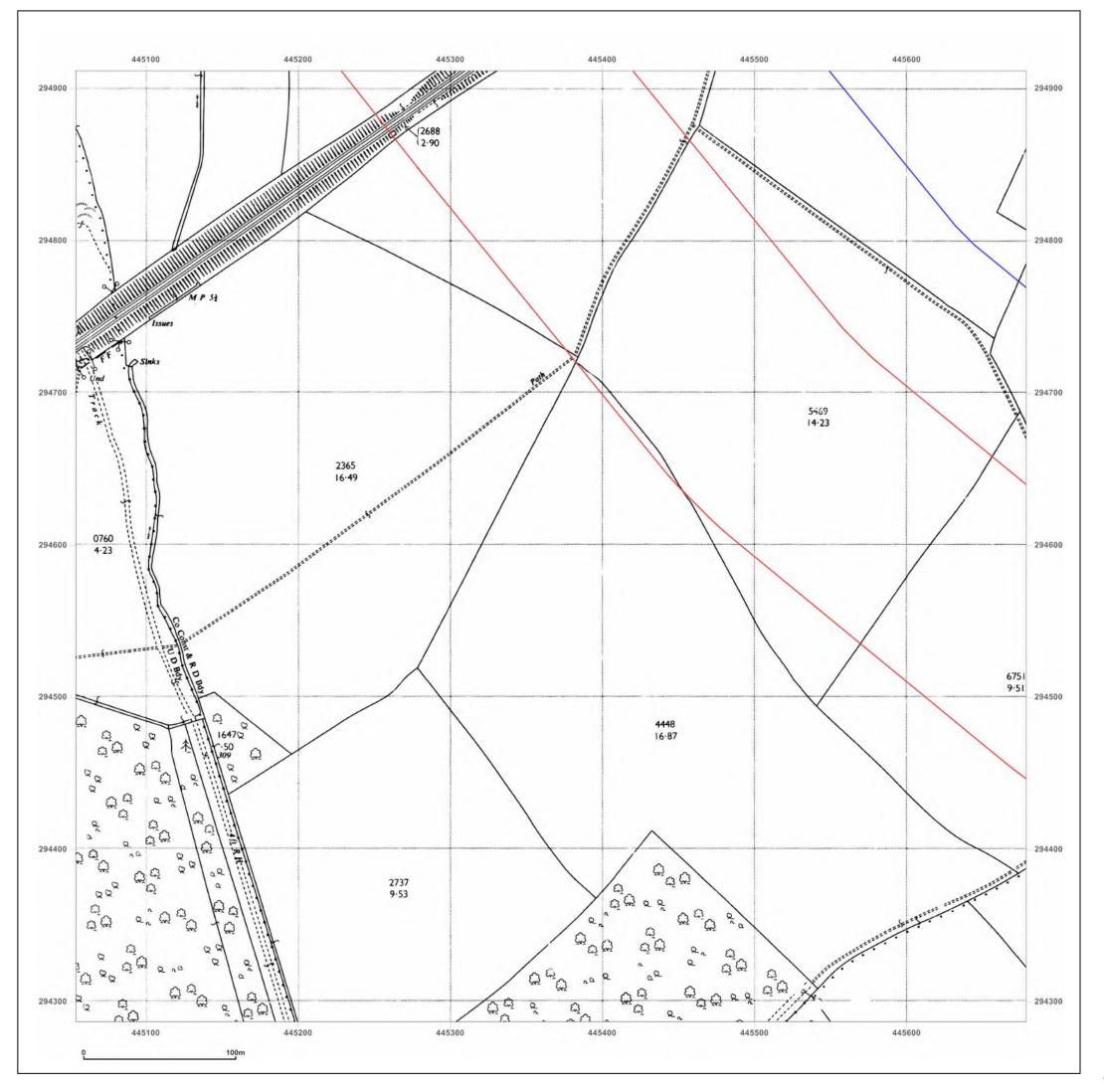




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Map legend available at:





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Report Ref: GSTEST-6054106_LS_2_1

Grid Ref: 445366, 294599

Map Name: National Grid

Map date: 1964

Scale: 1:2,500

Printed at: 1:2,500

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

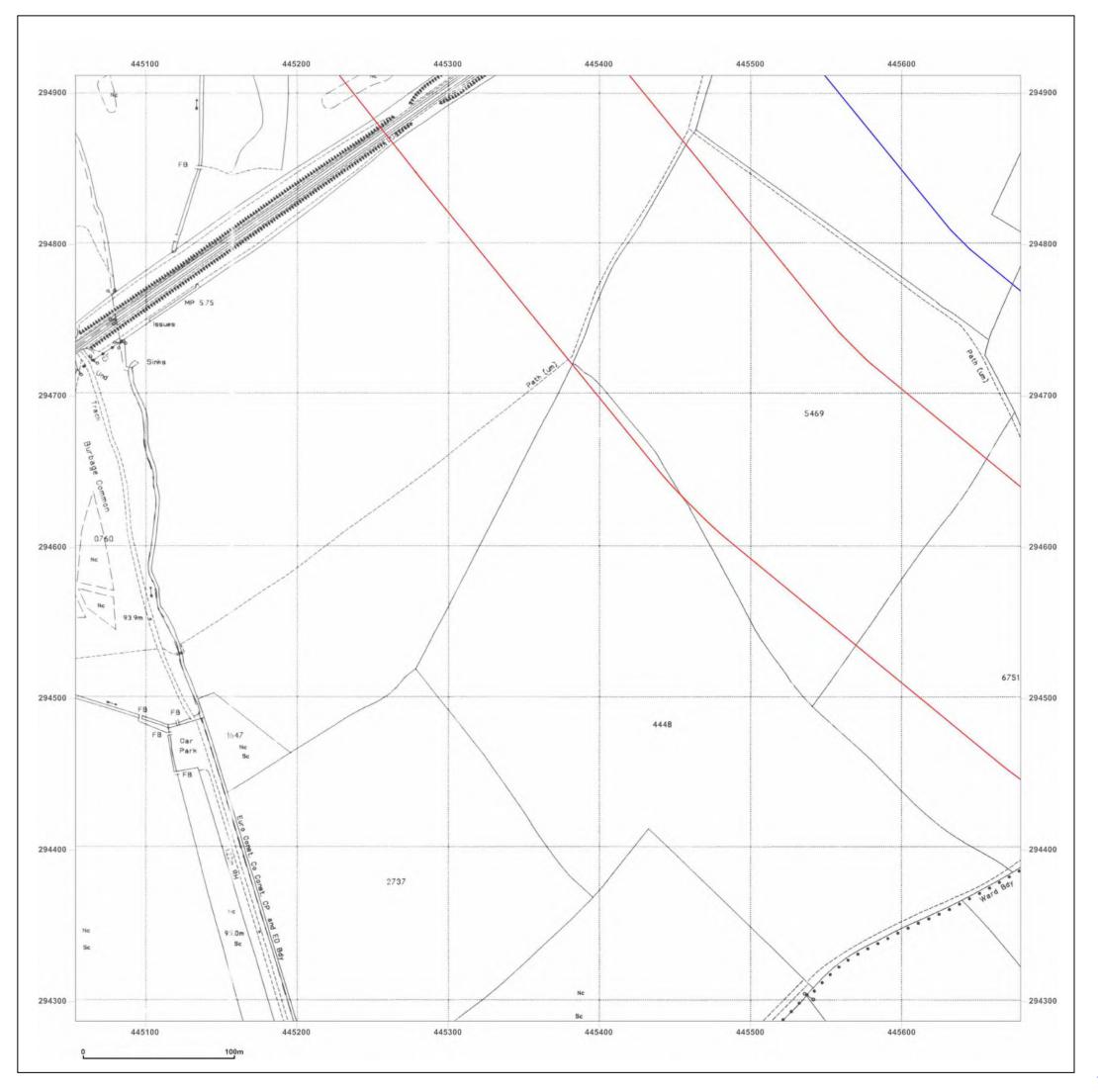


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Production date: 24 May 2019

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Site Details:

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Report Ref: GSTEST-6054106_LS_2_1

Grid Ref: 445366, 294599

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Map date: 1994

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

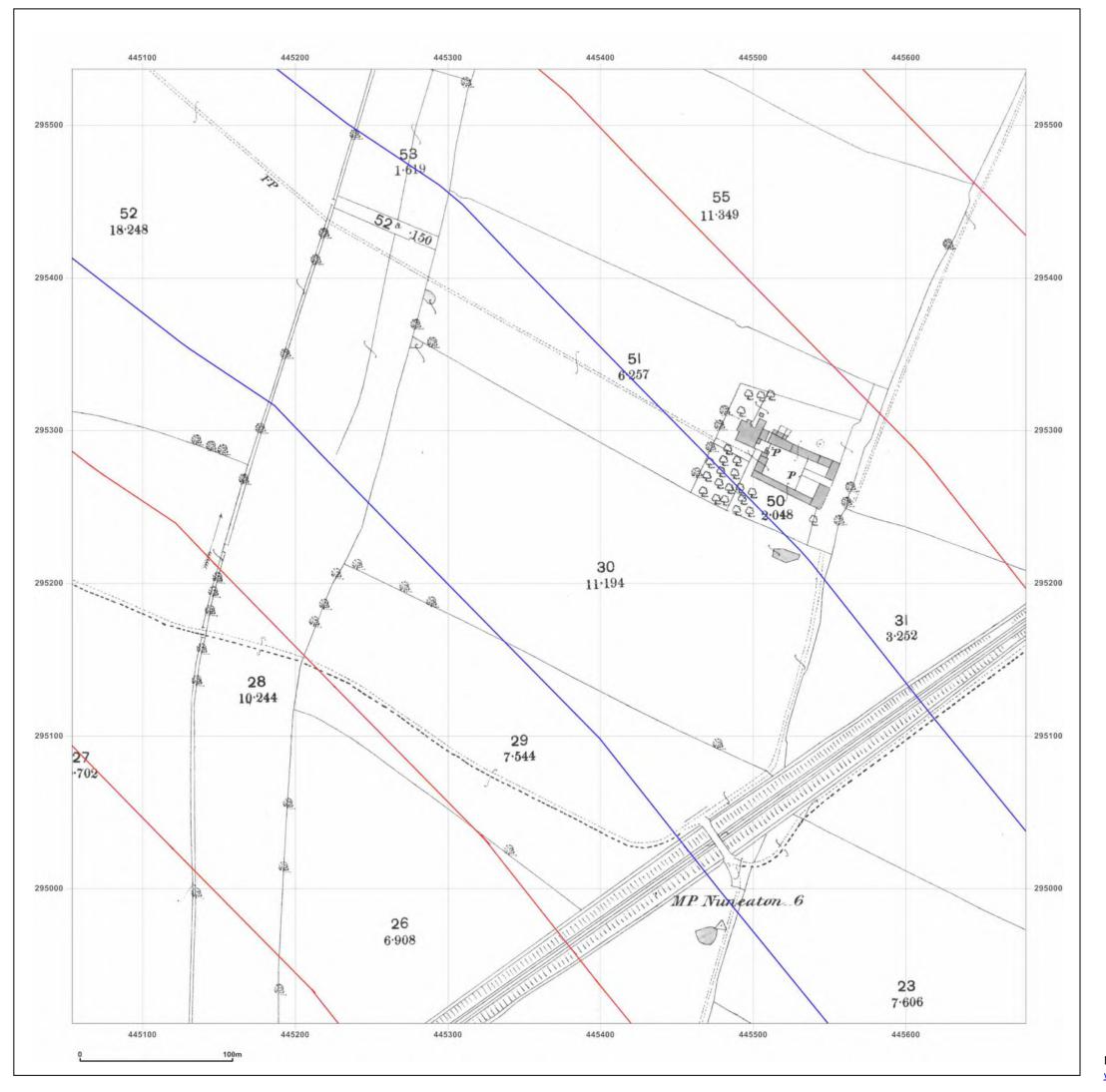


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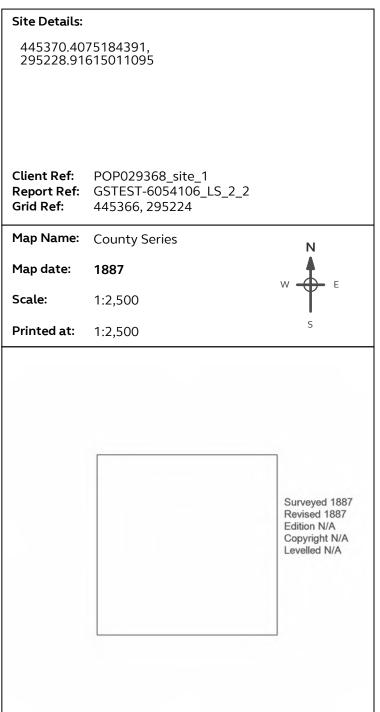
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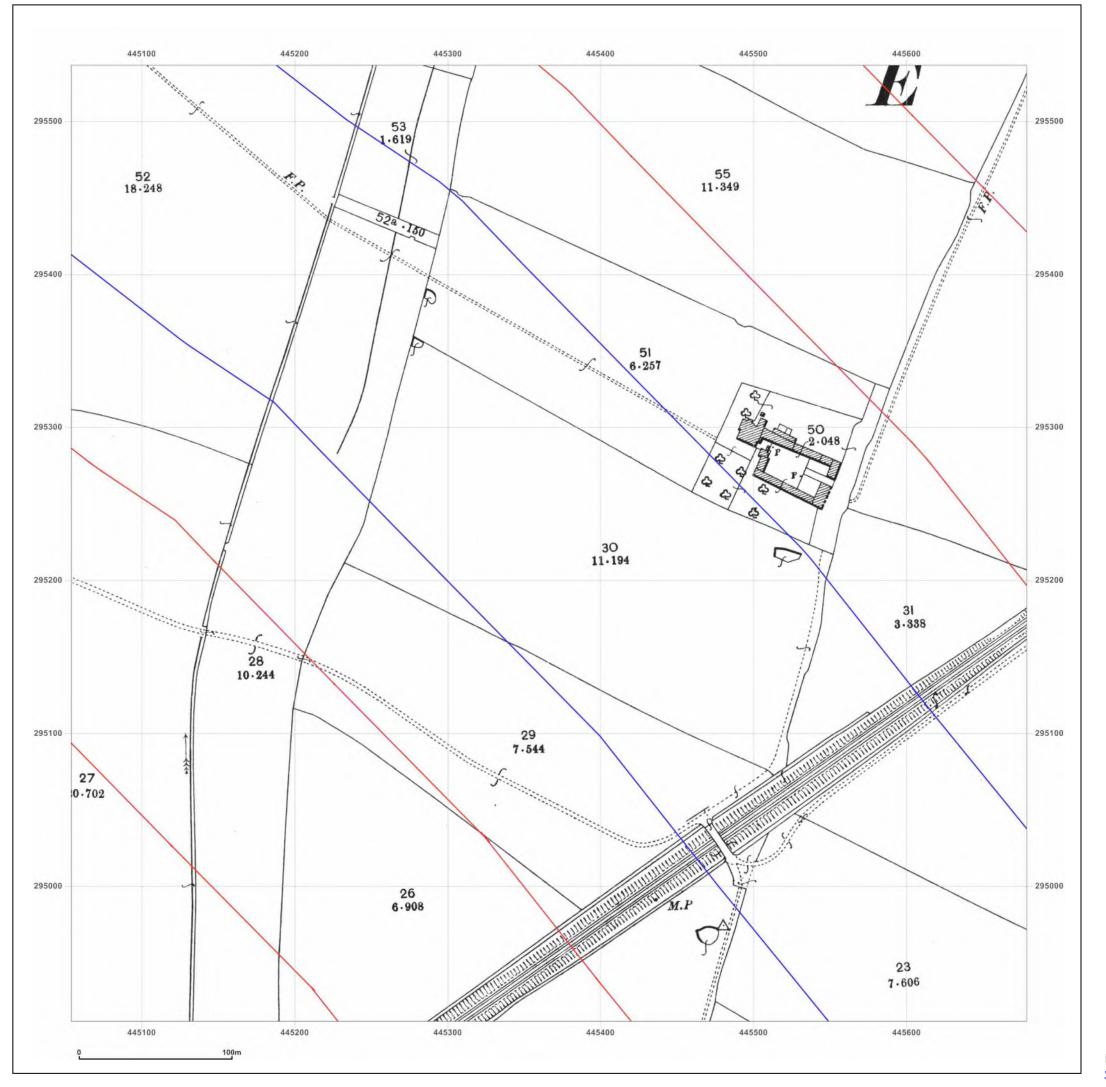




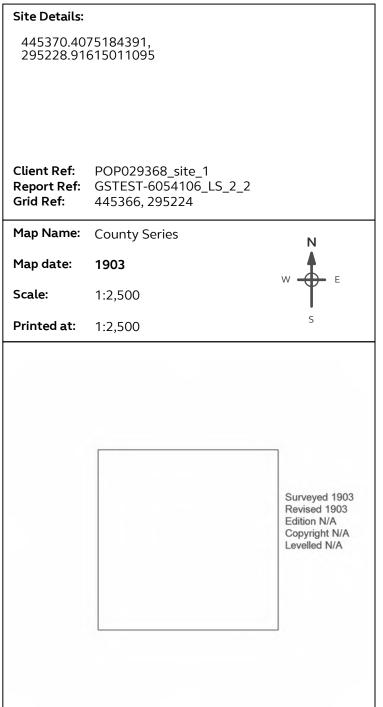
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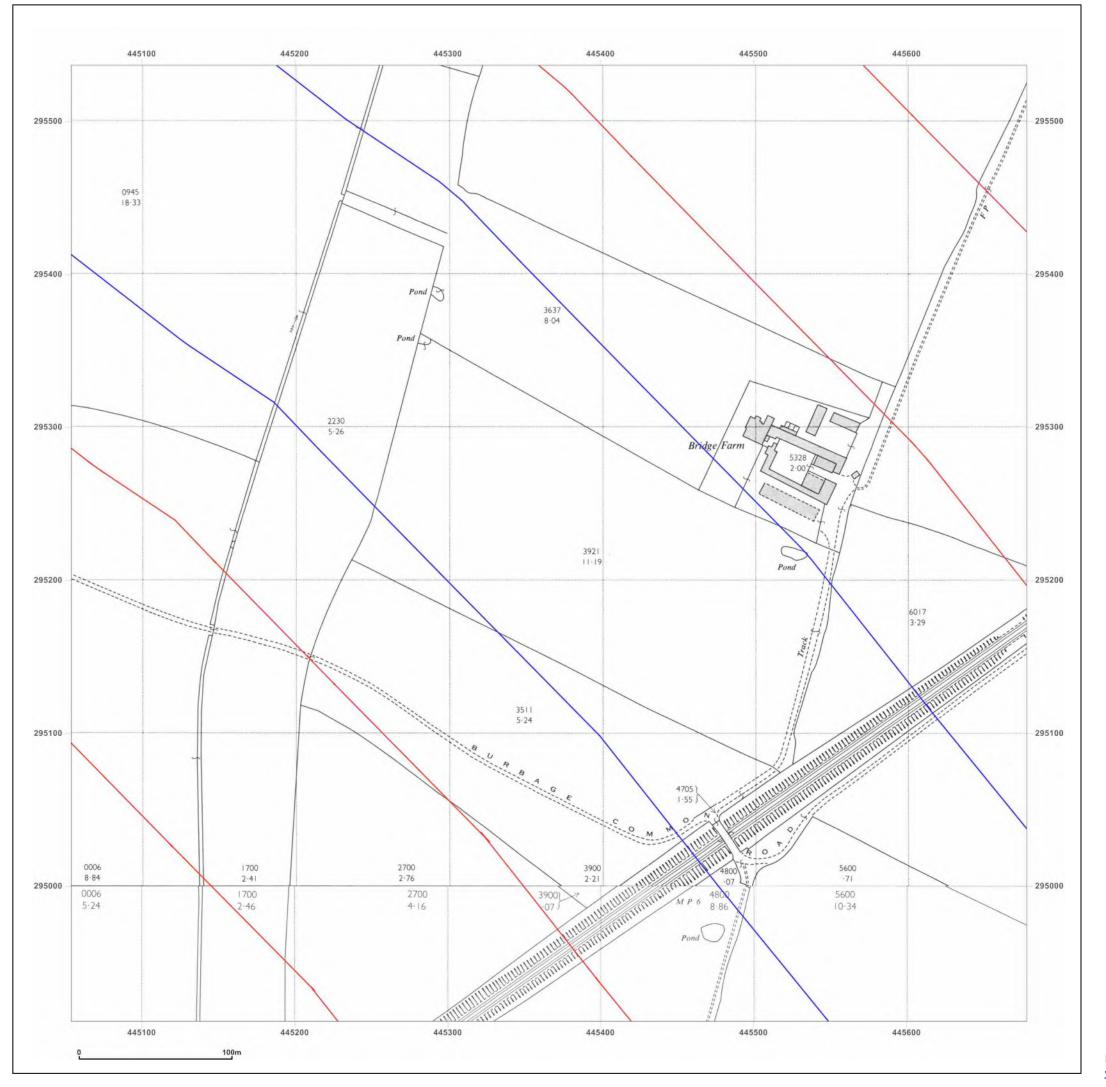




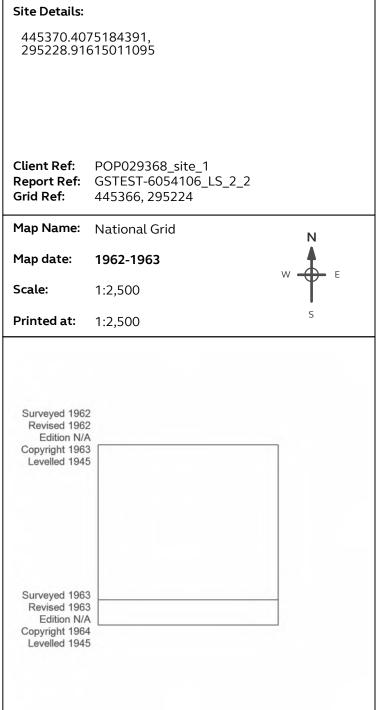
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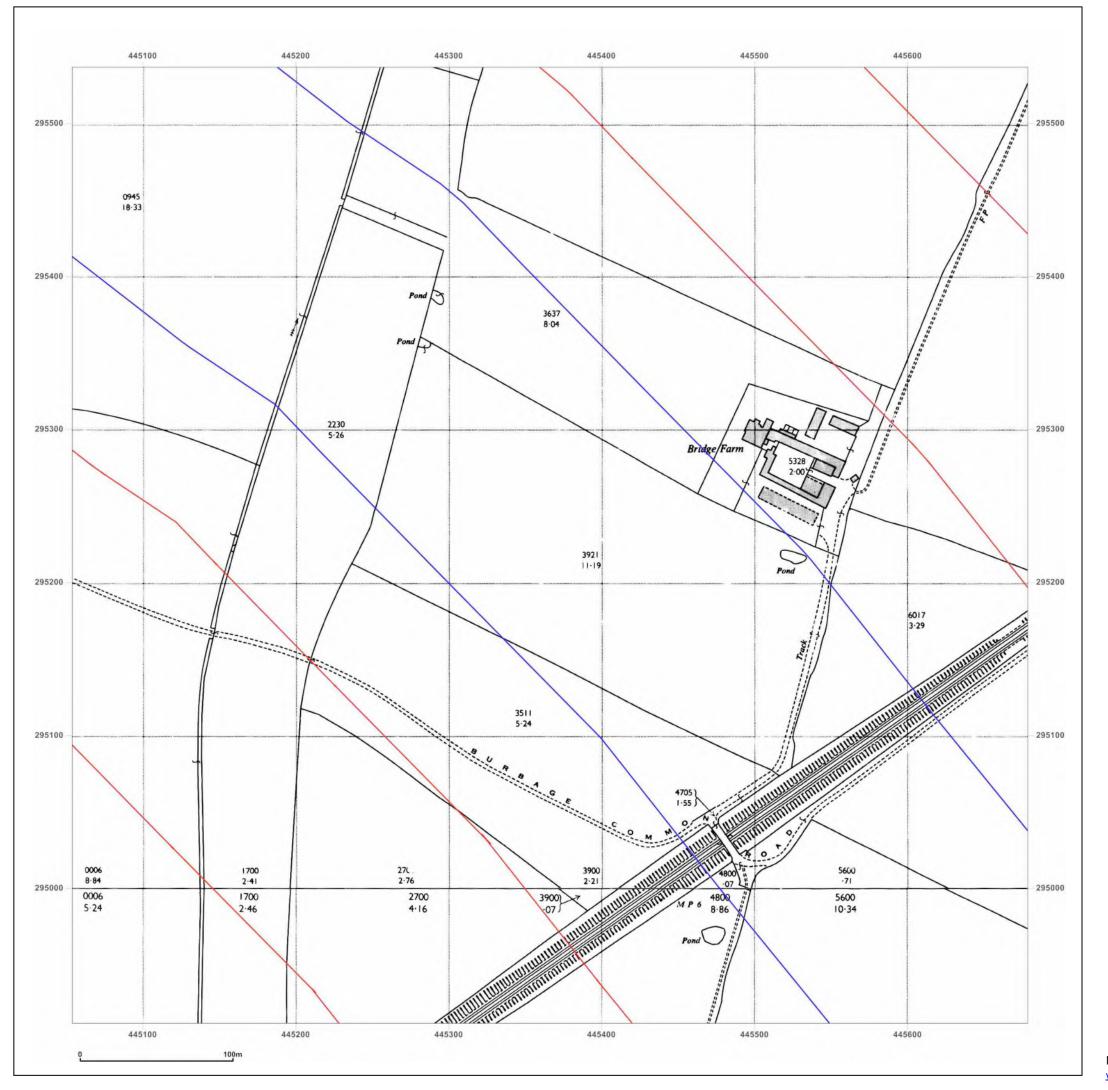




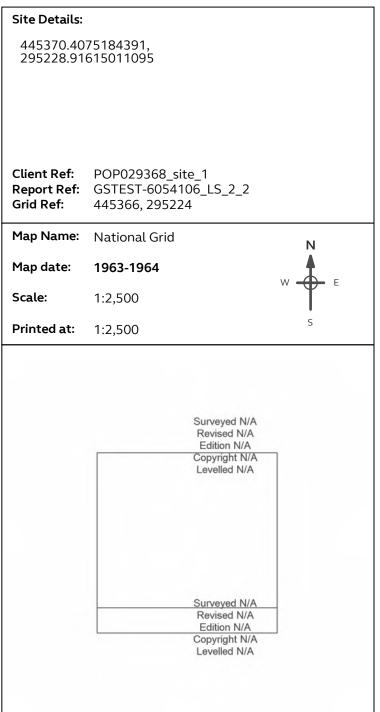
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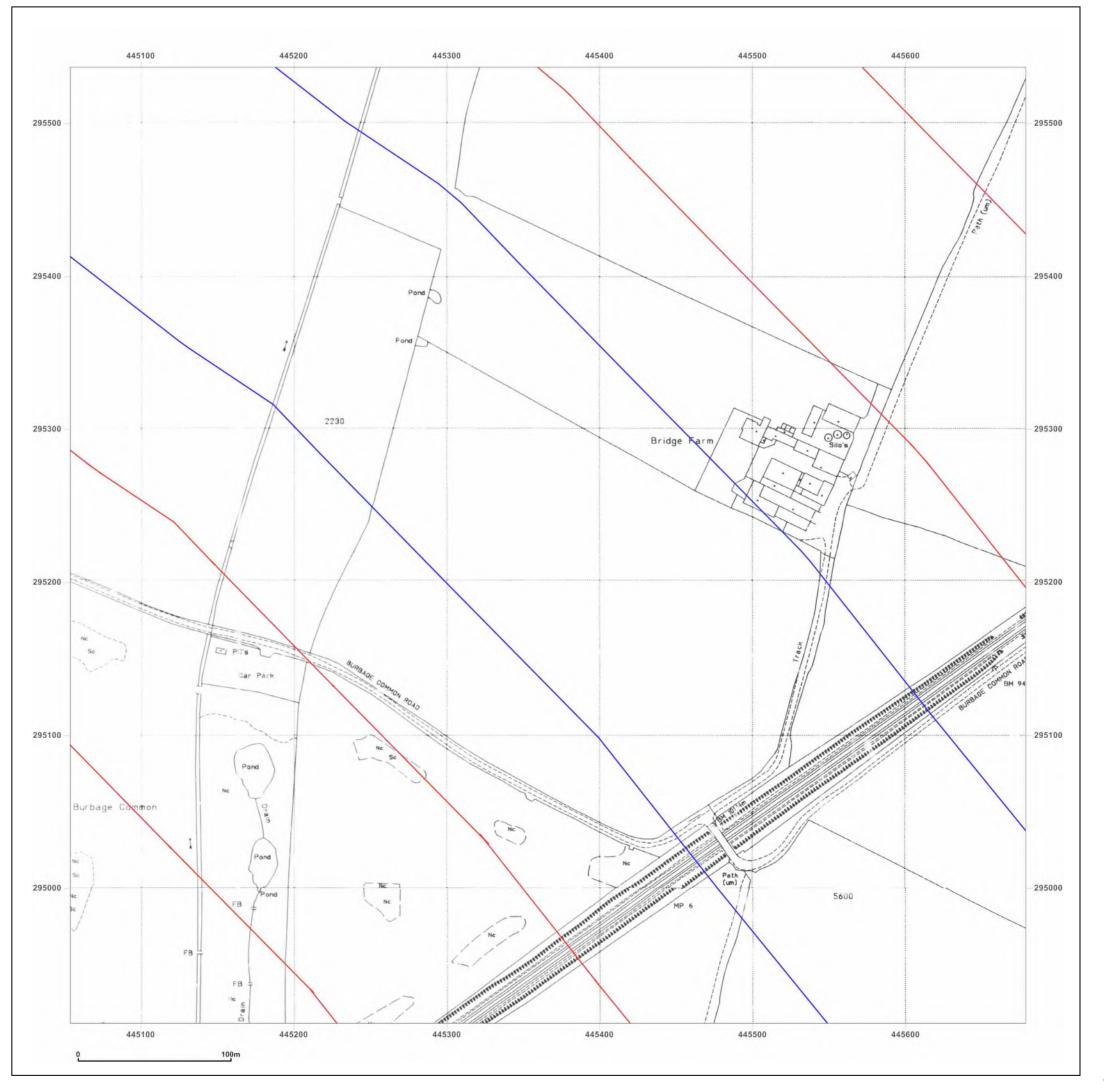




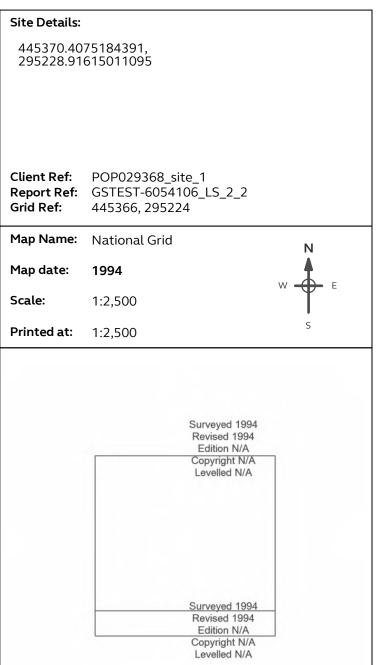
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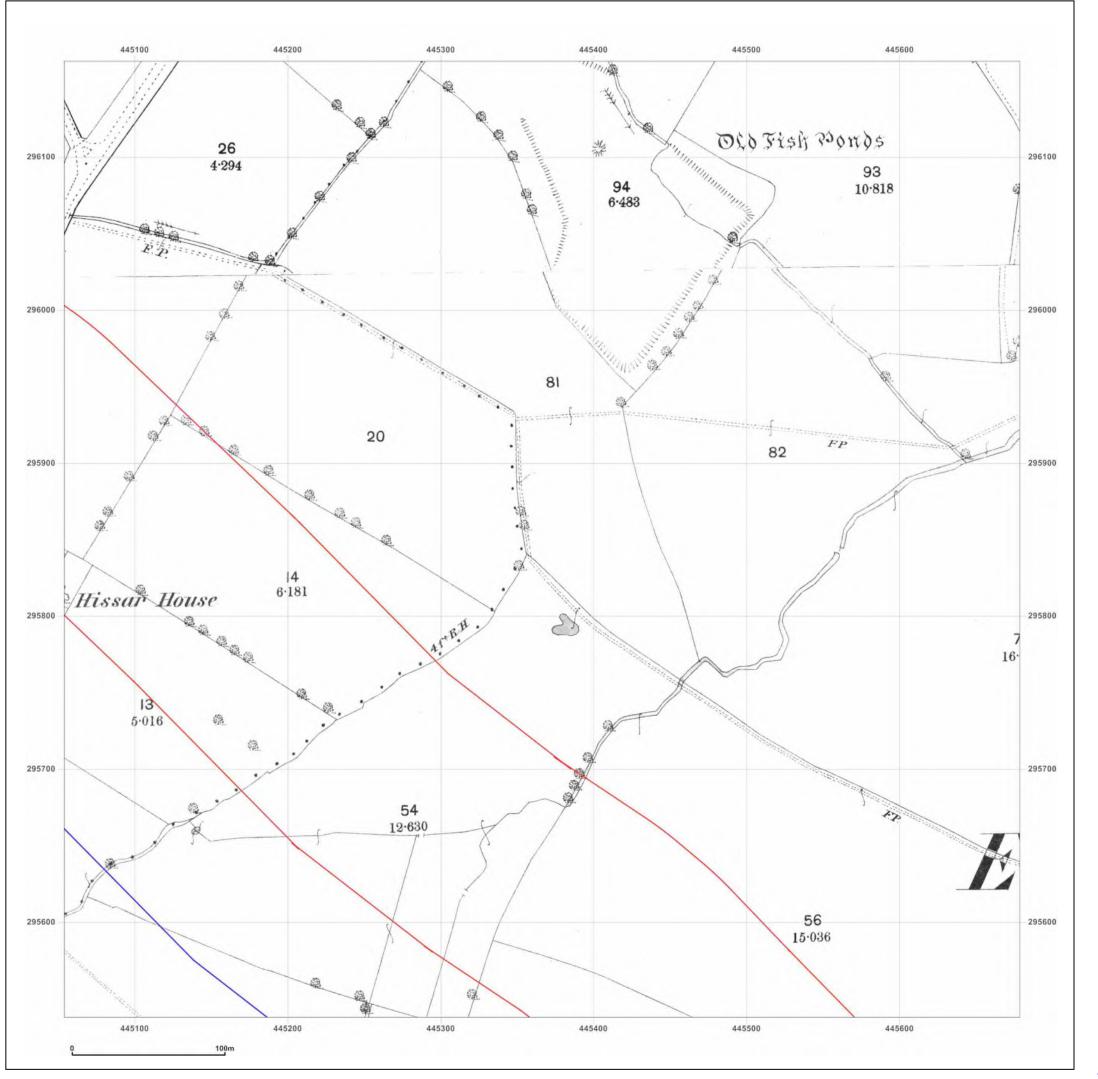




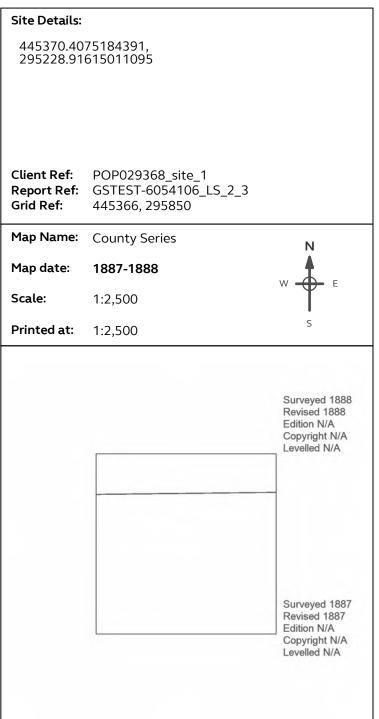
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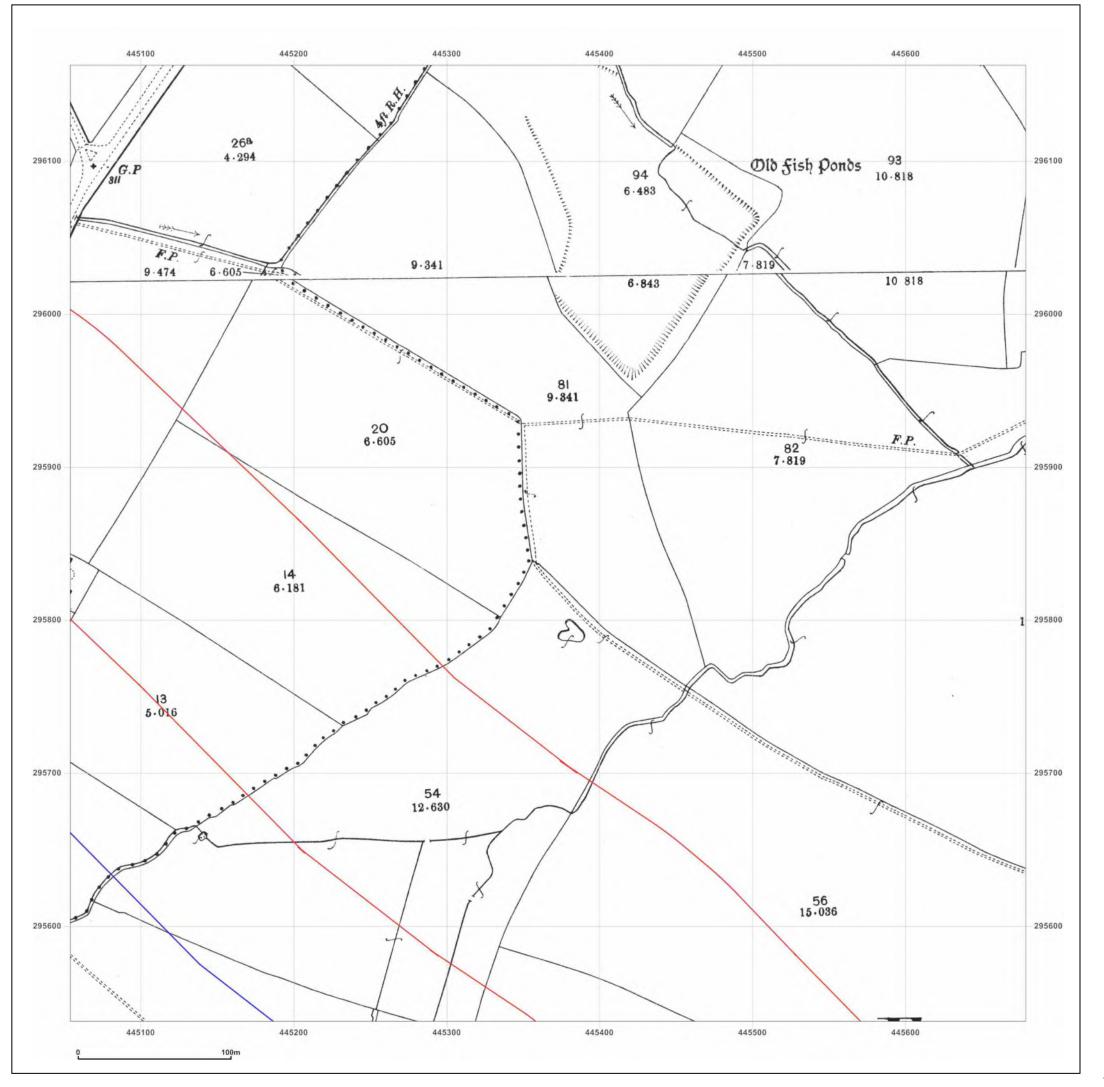




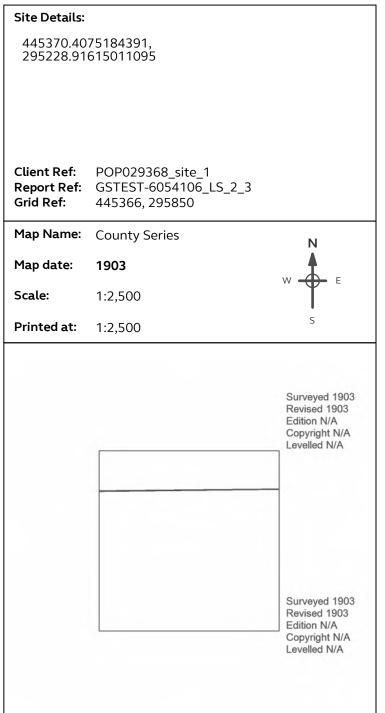
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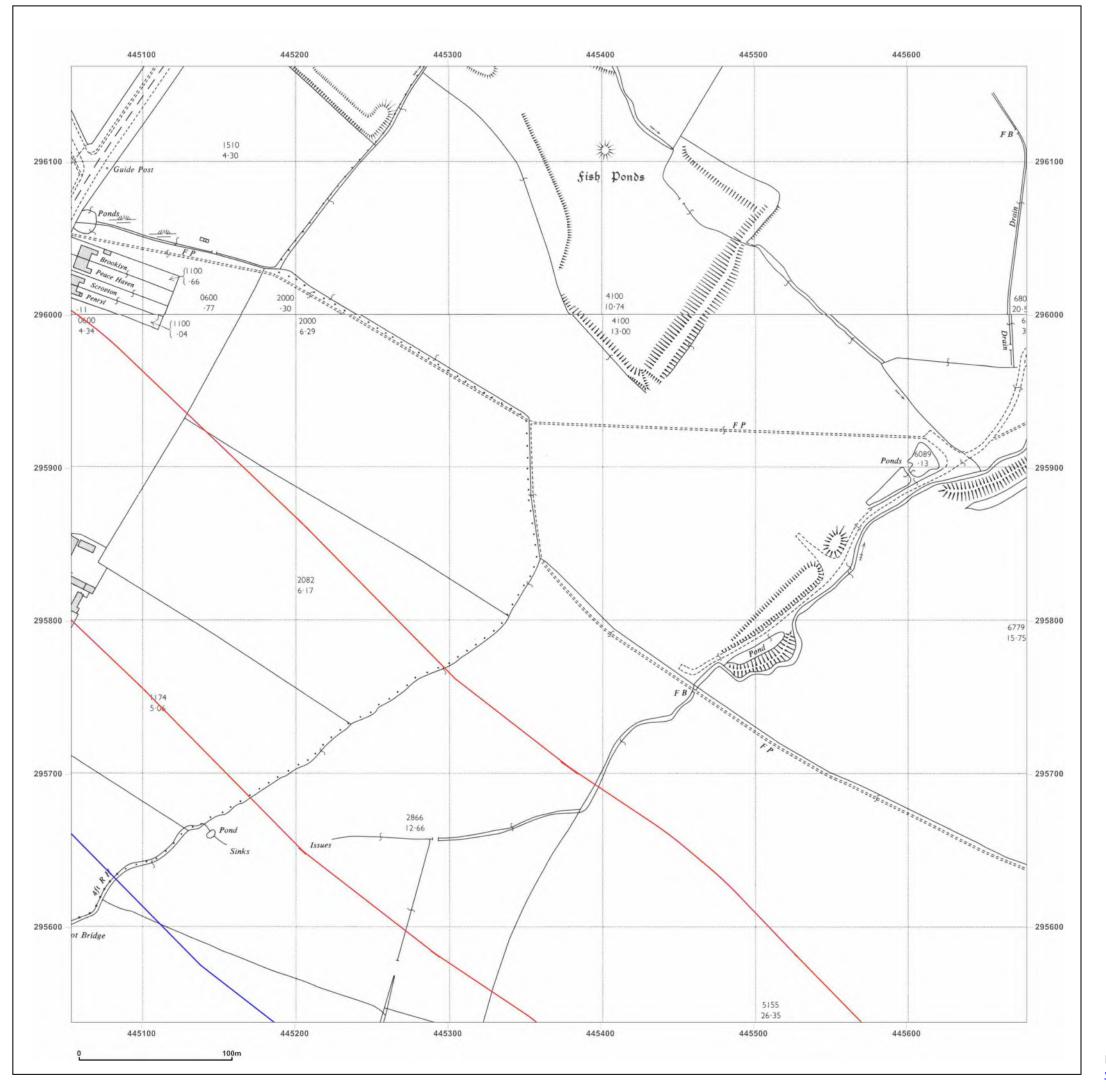




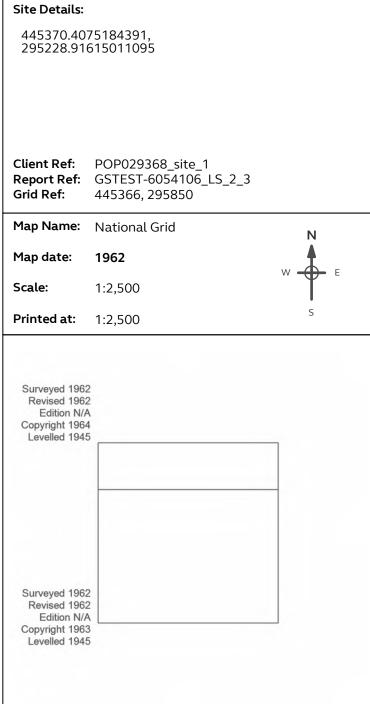
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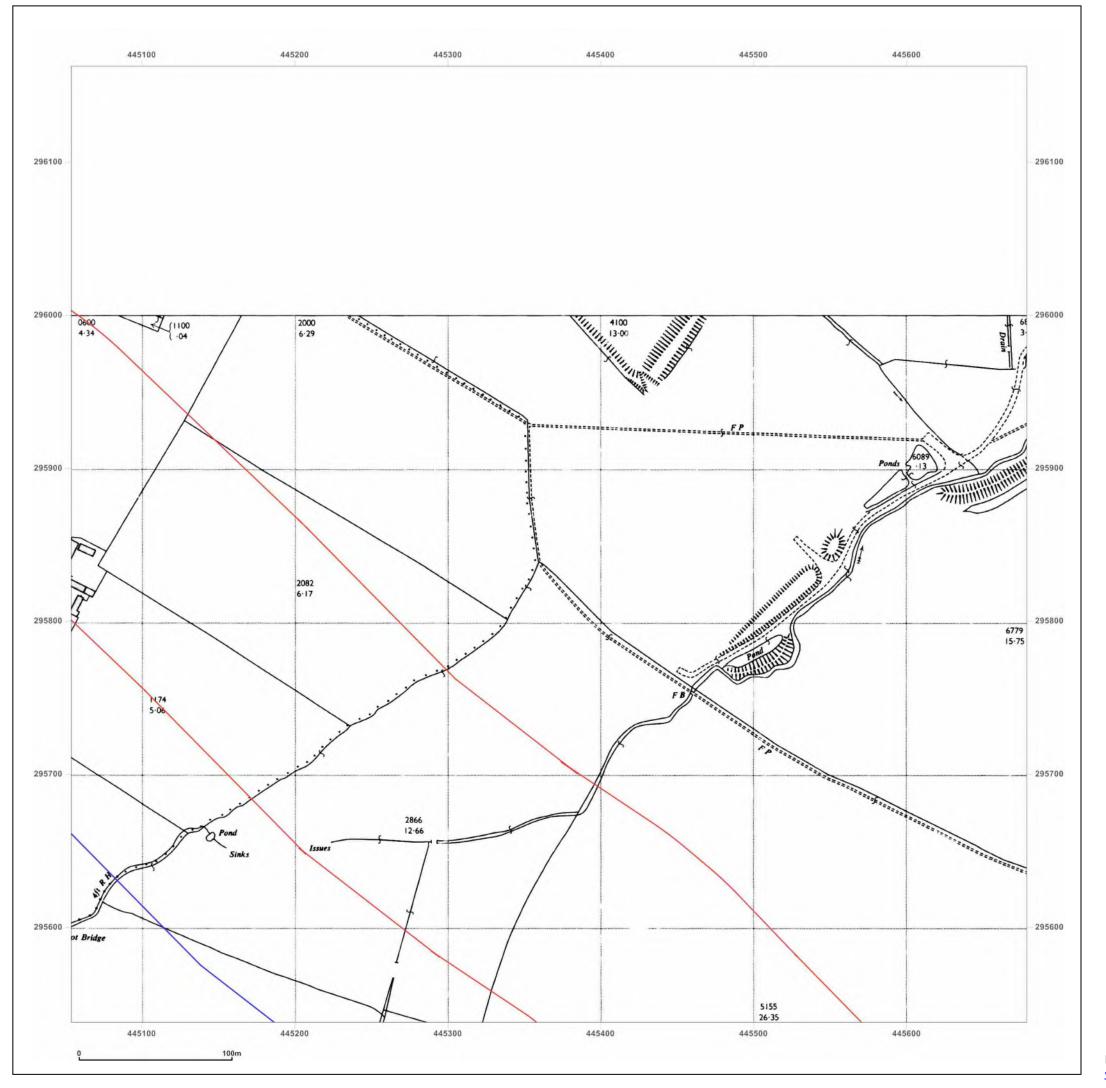




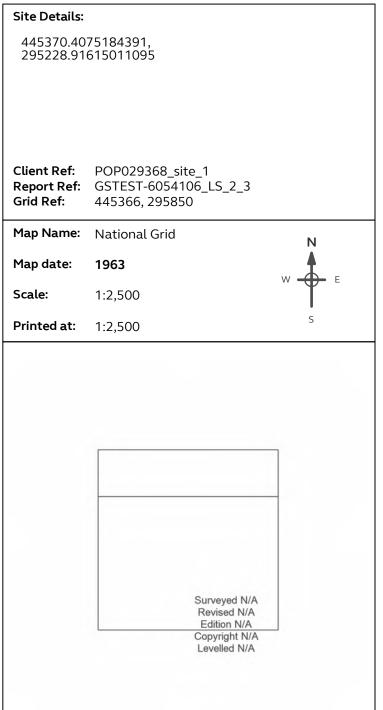
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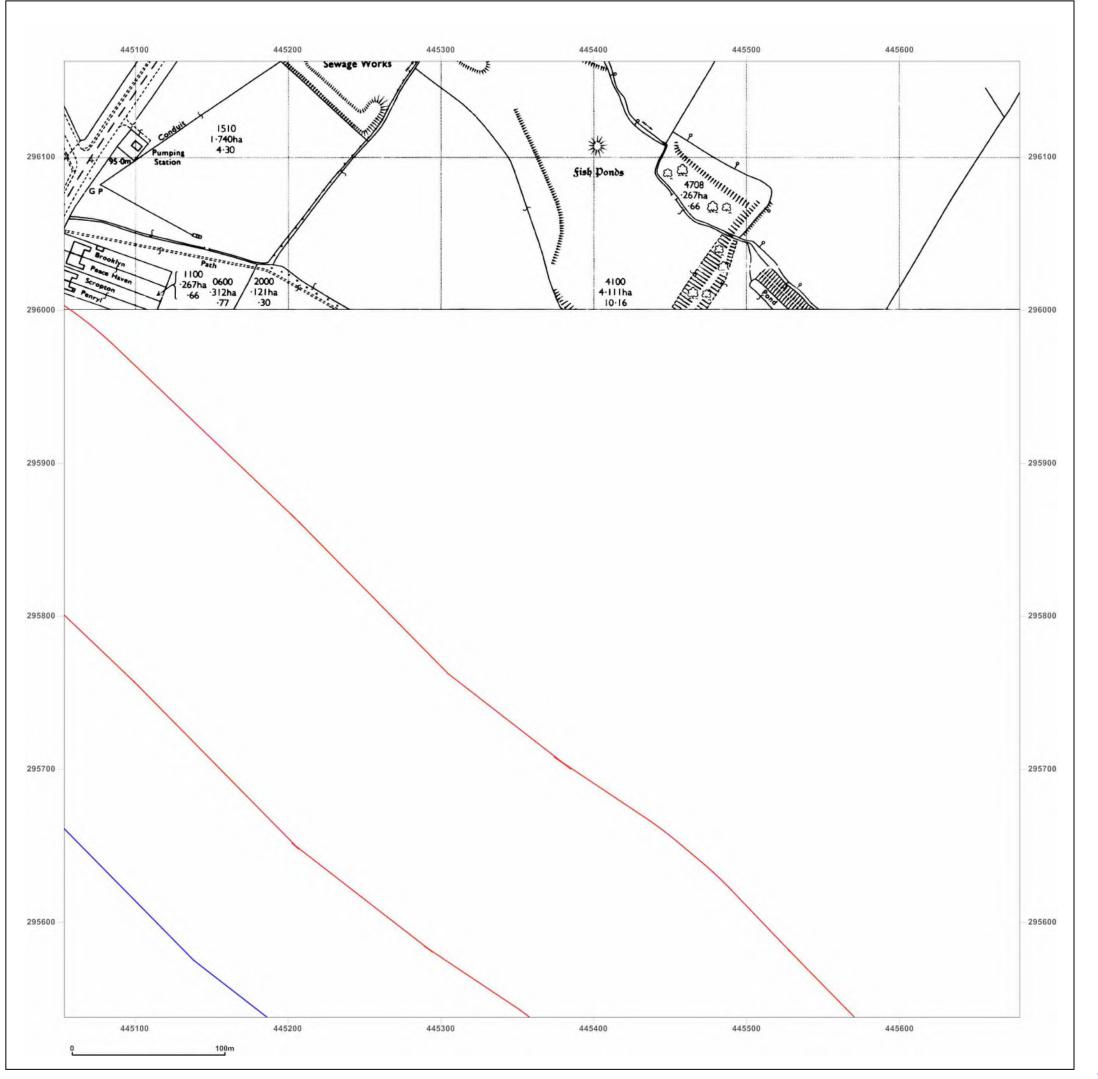




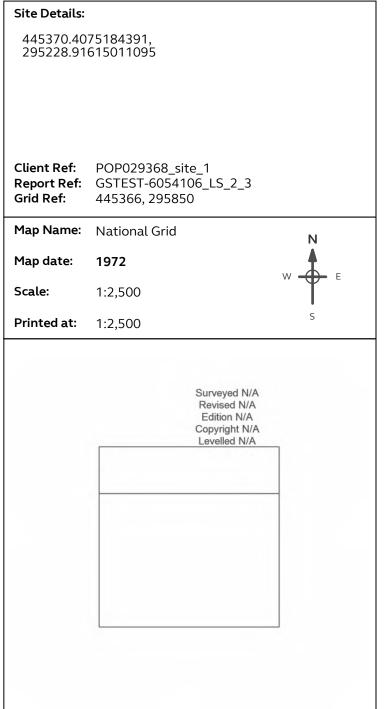
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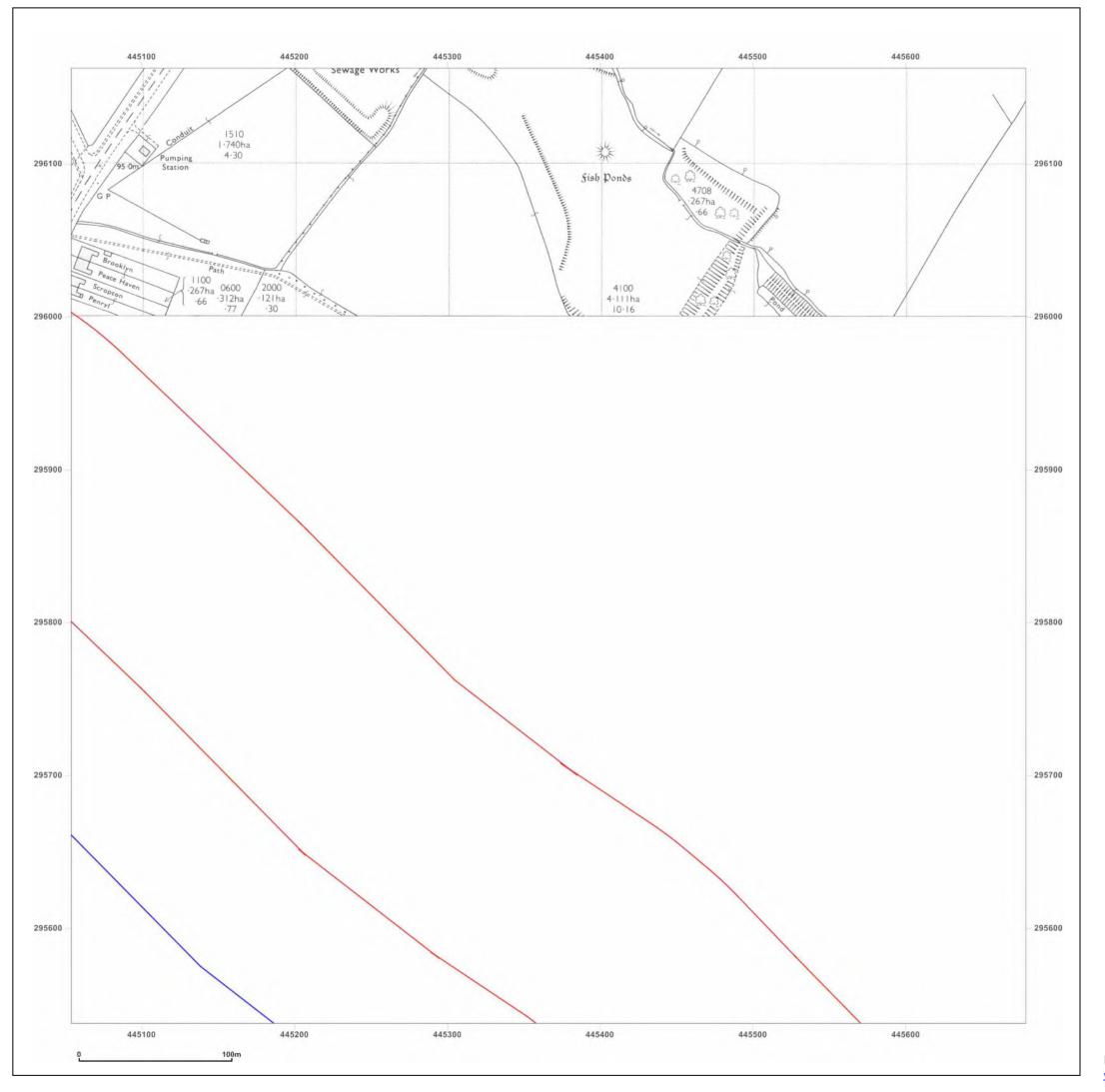




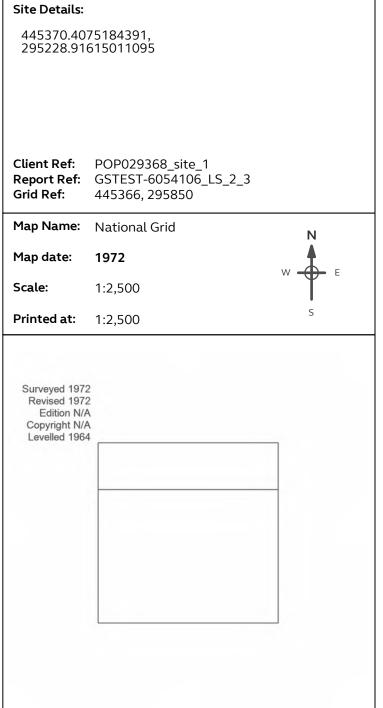
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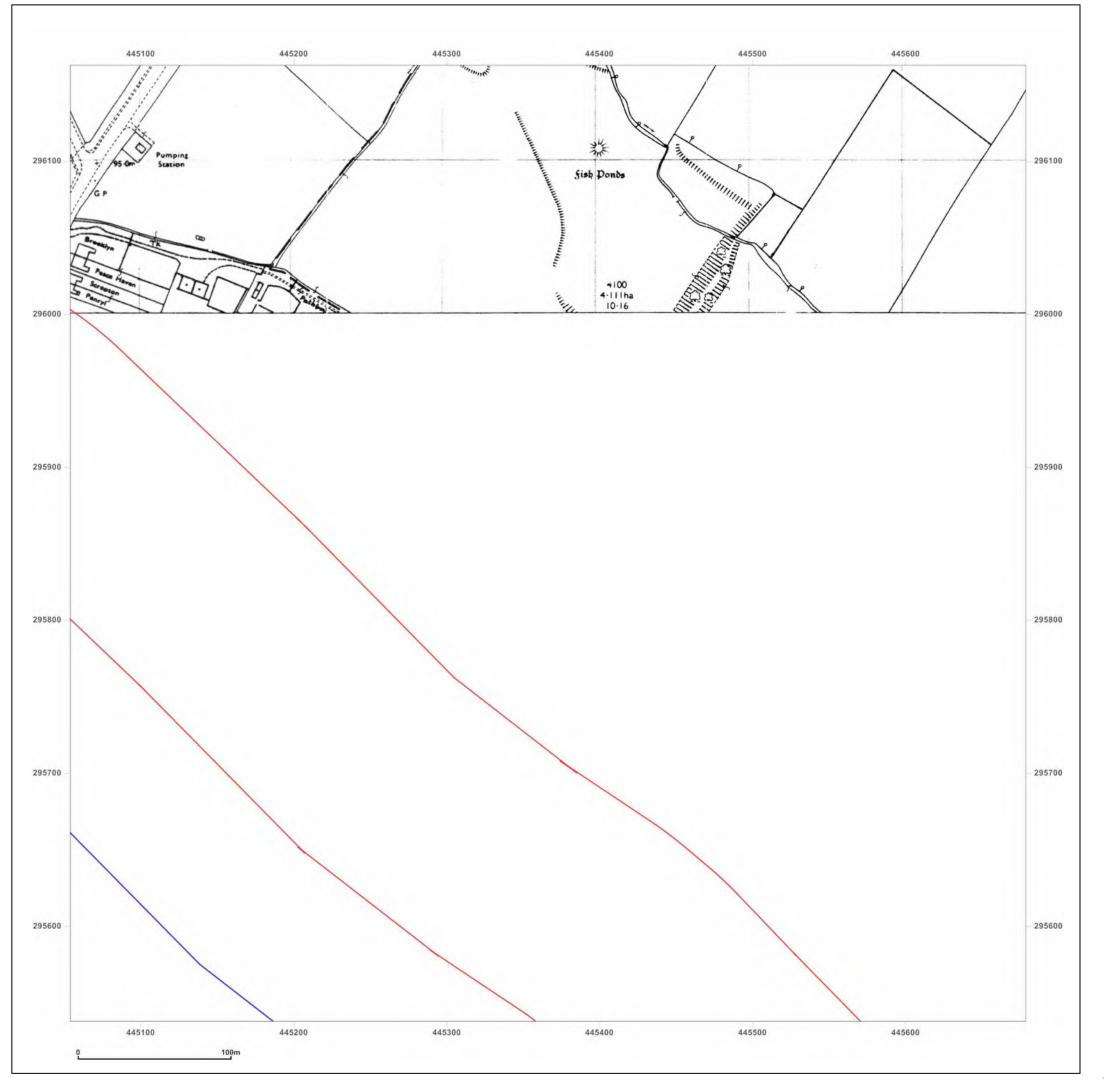




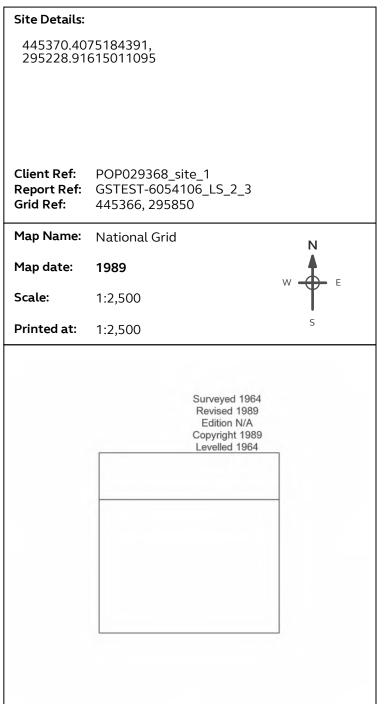
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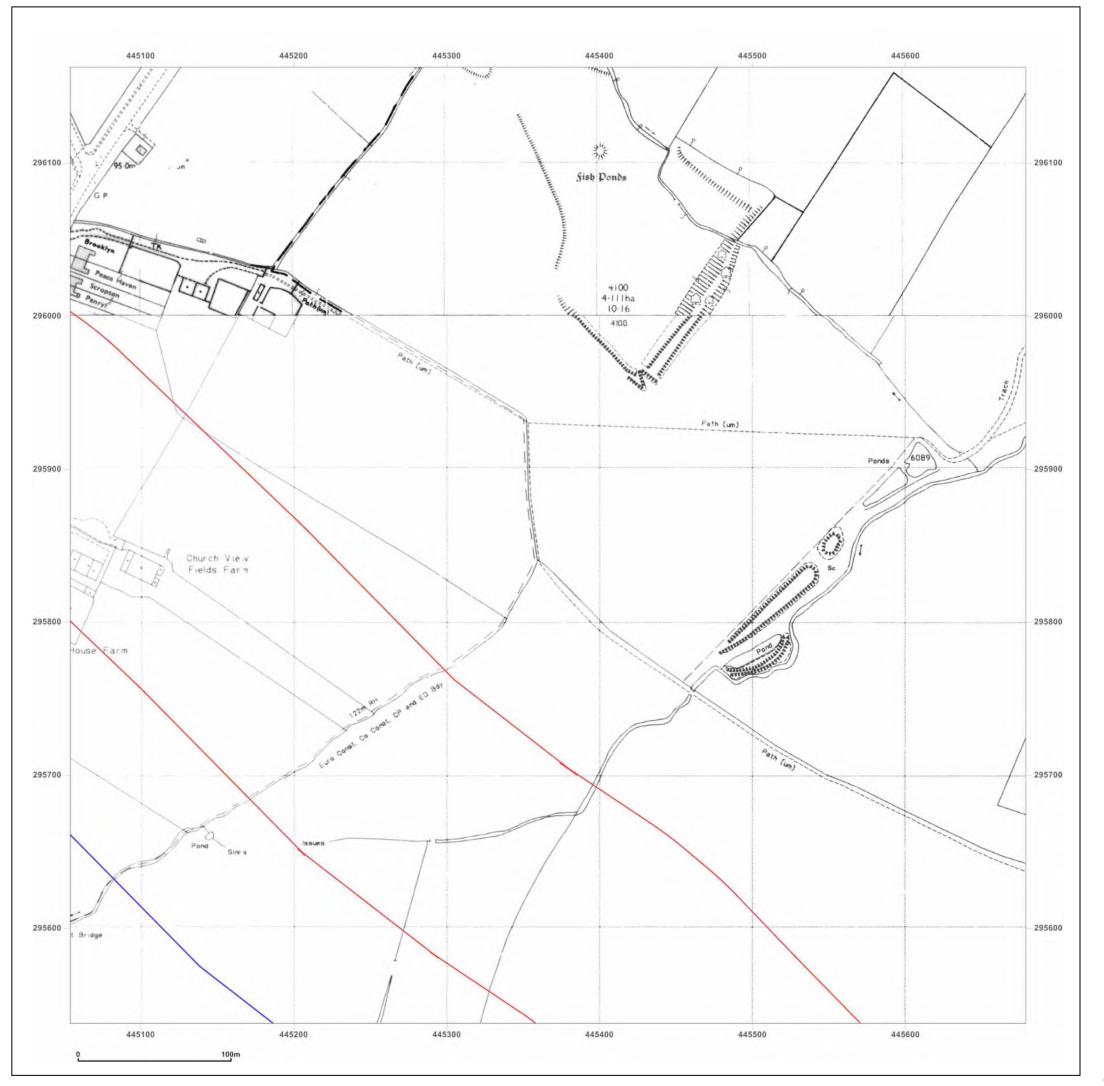




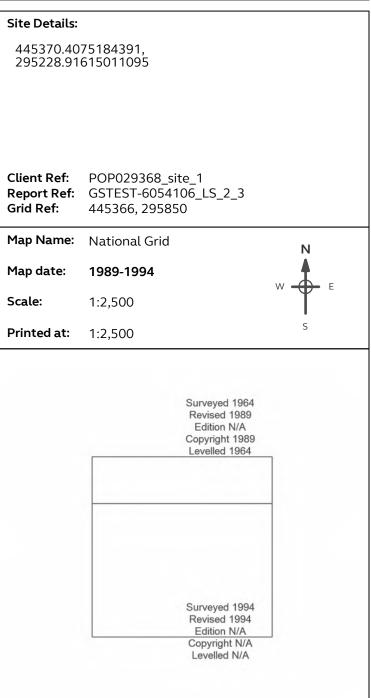
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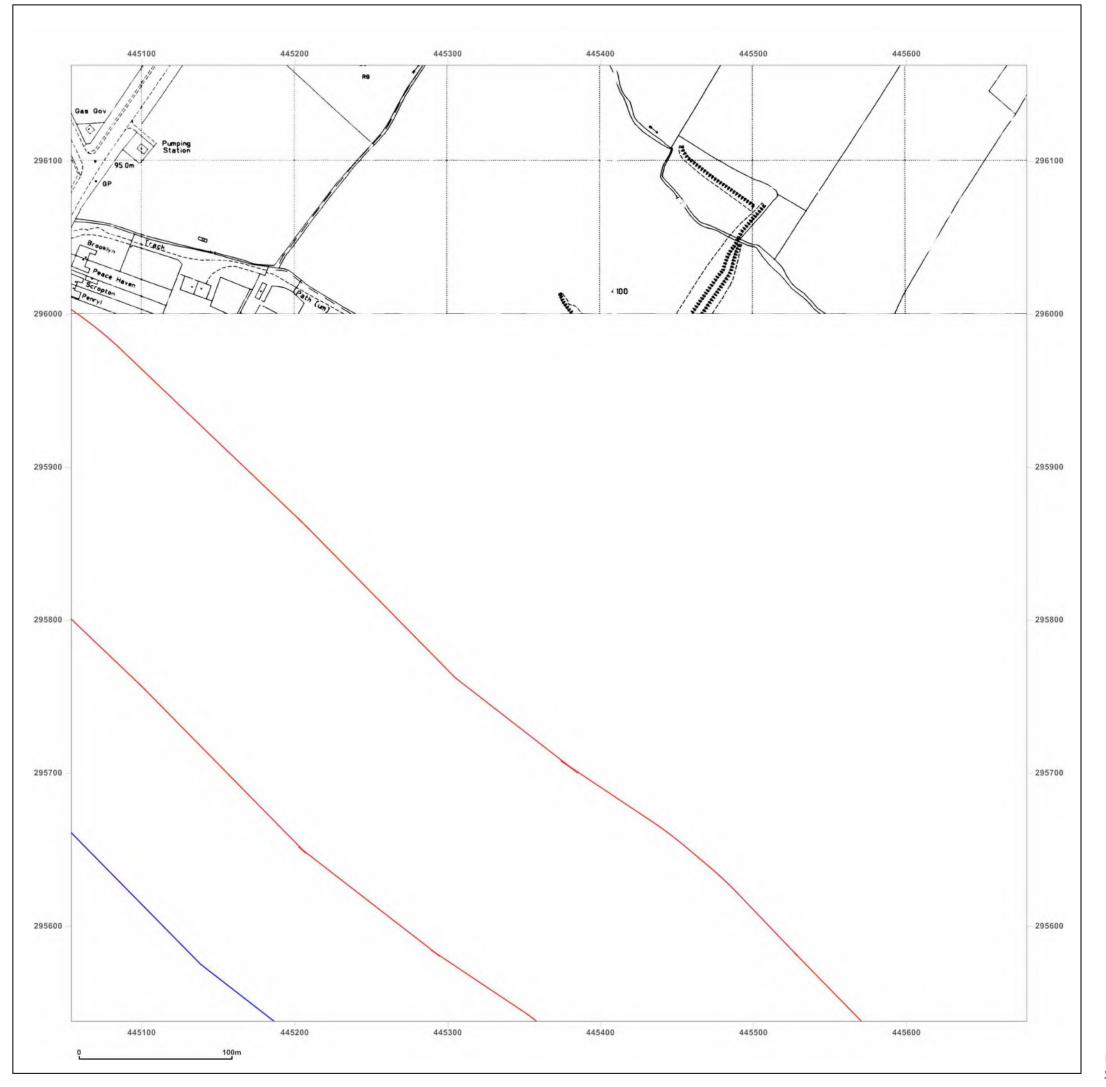




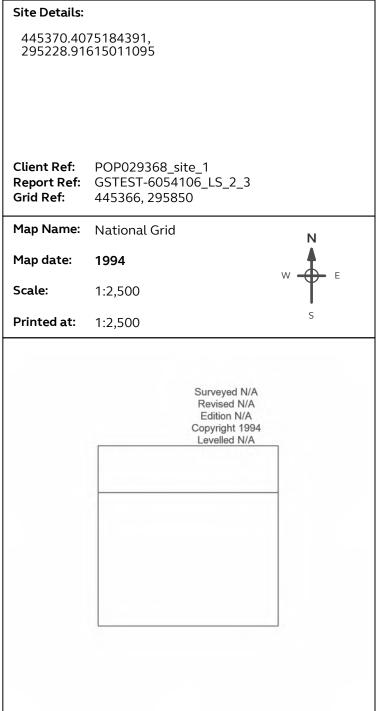
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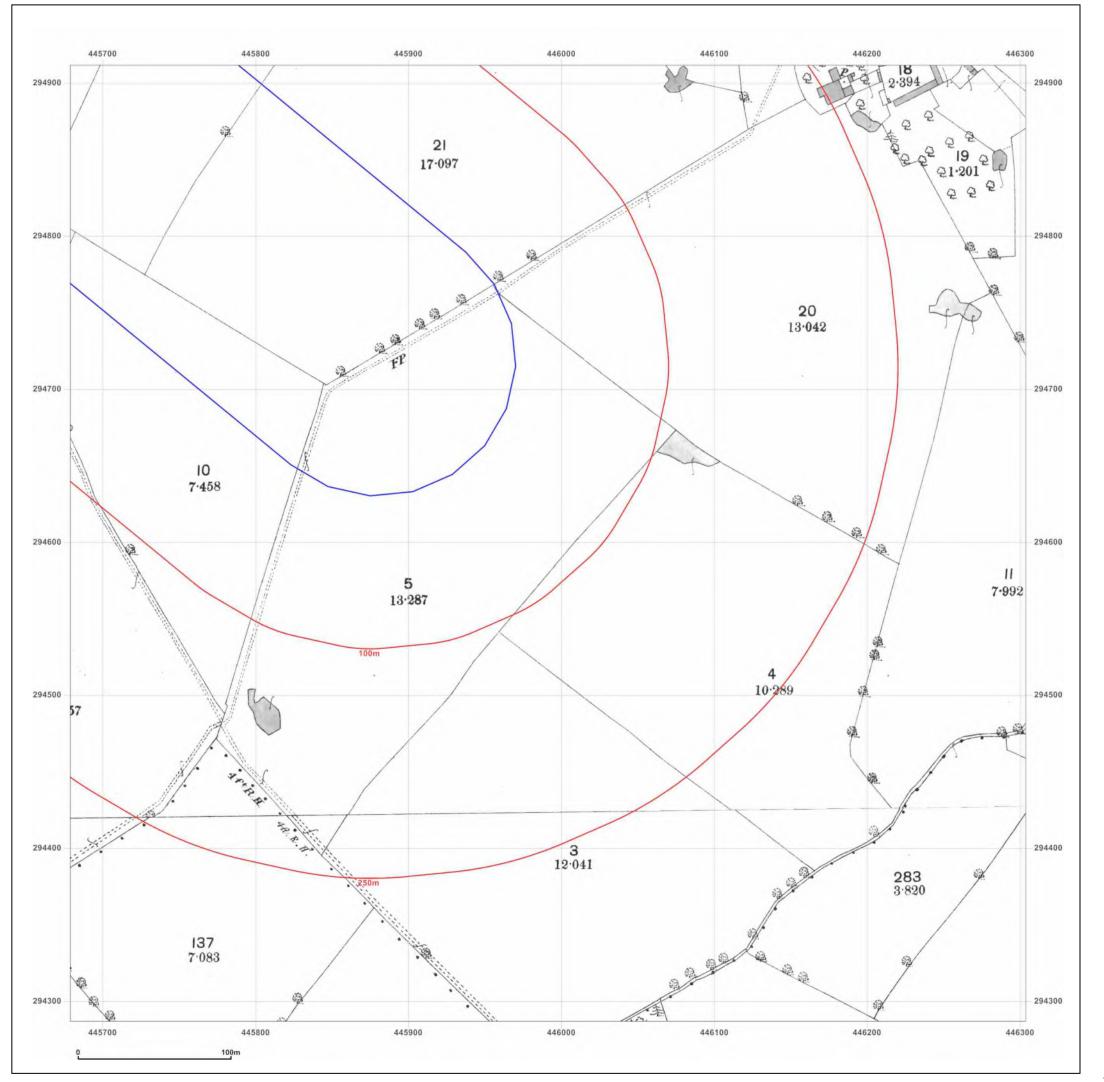




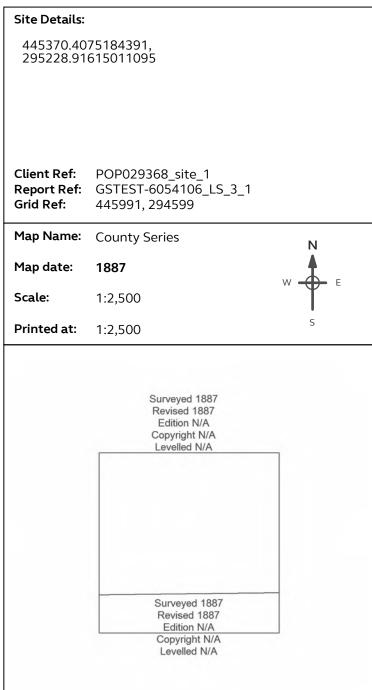
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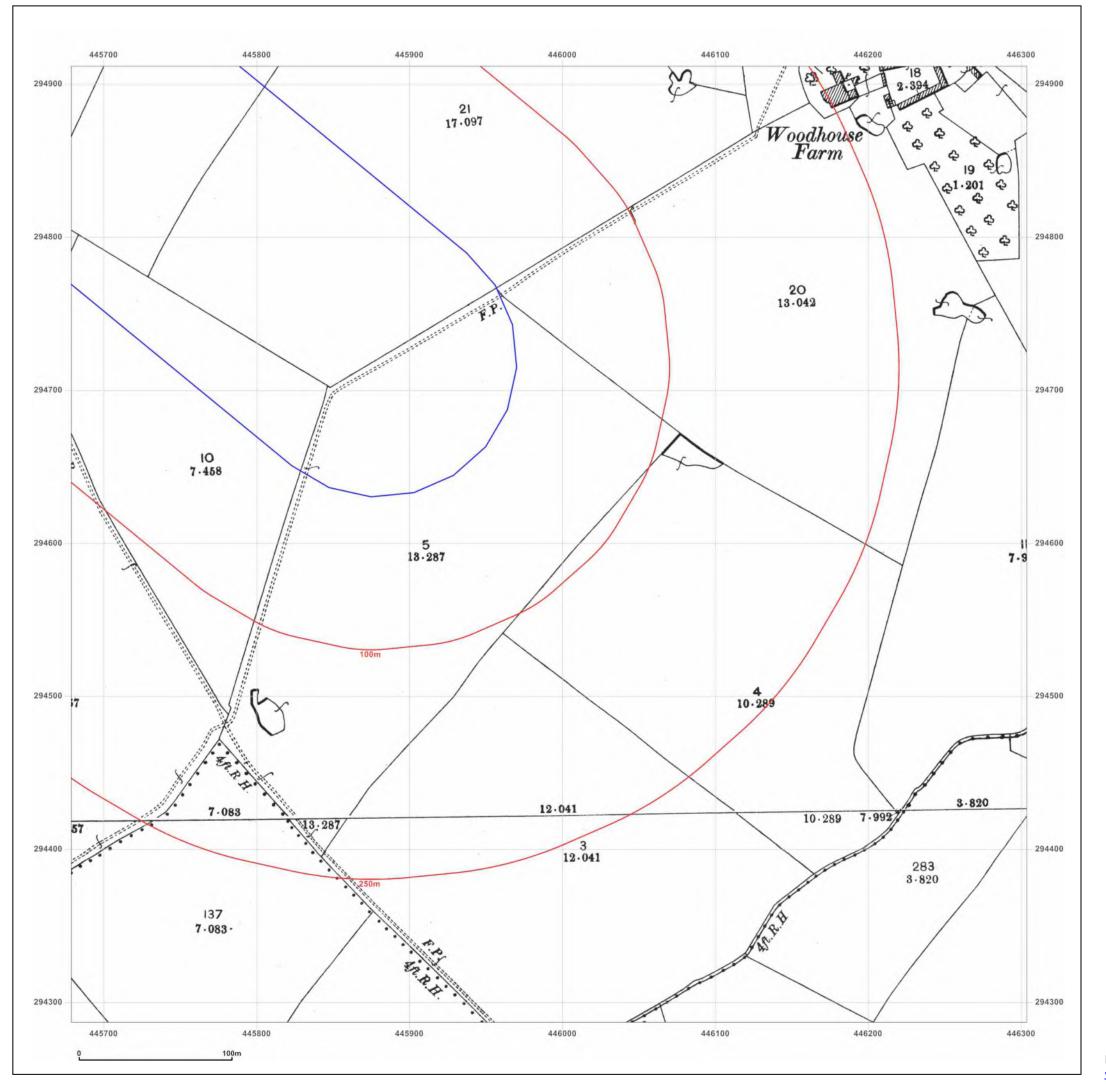


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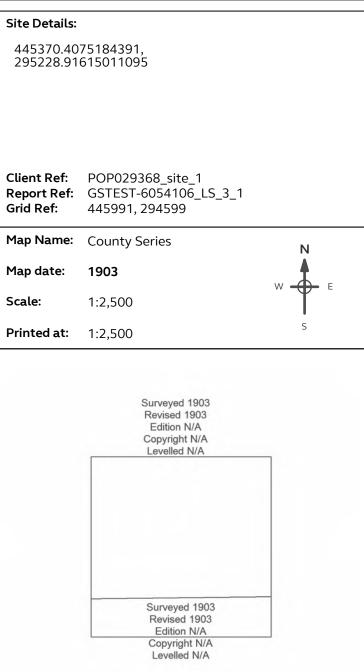
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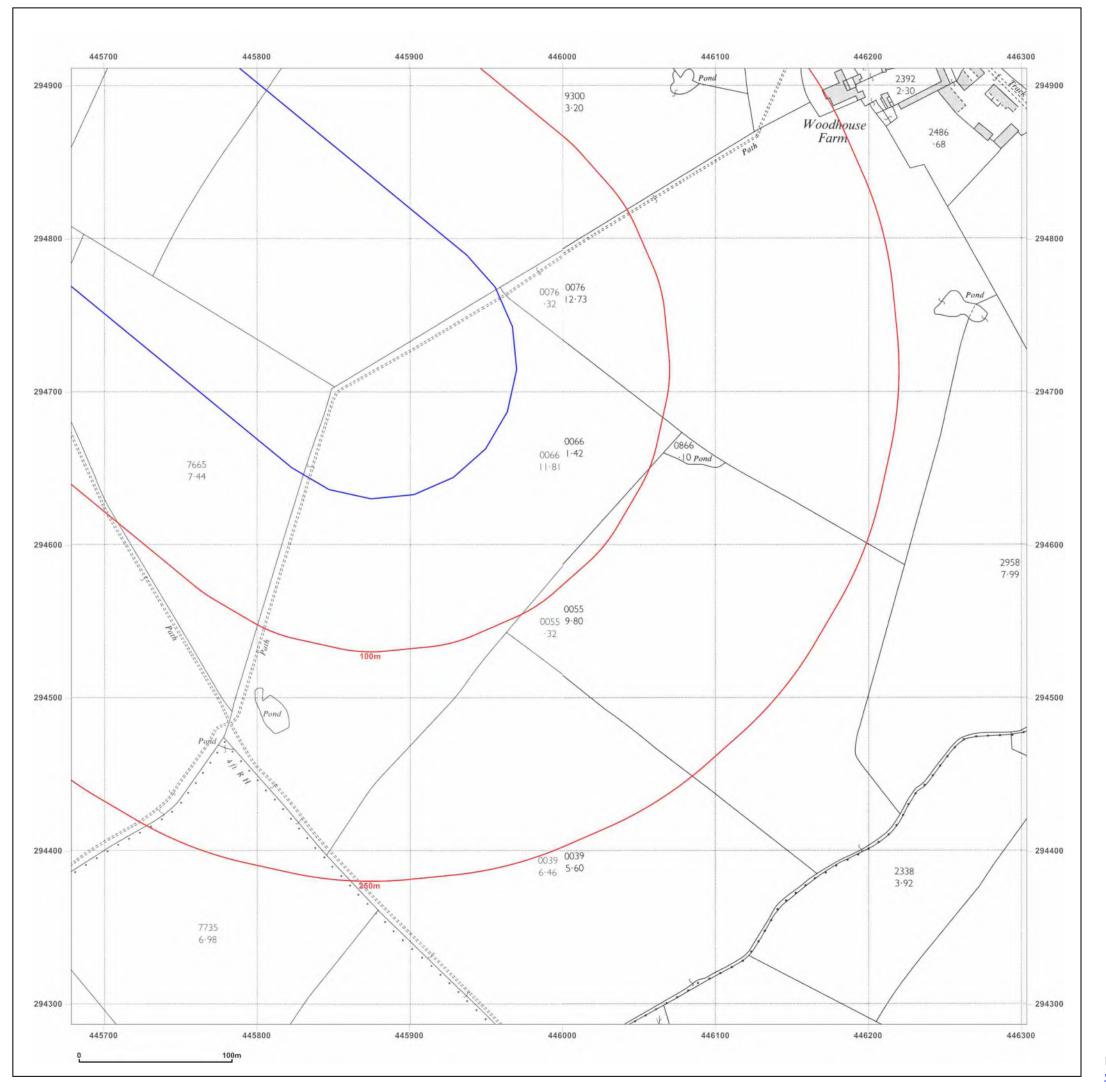


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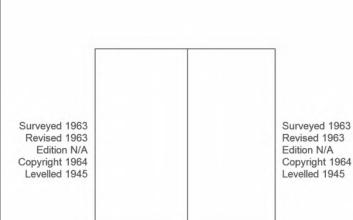
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Map Name: National Grid

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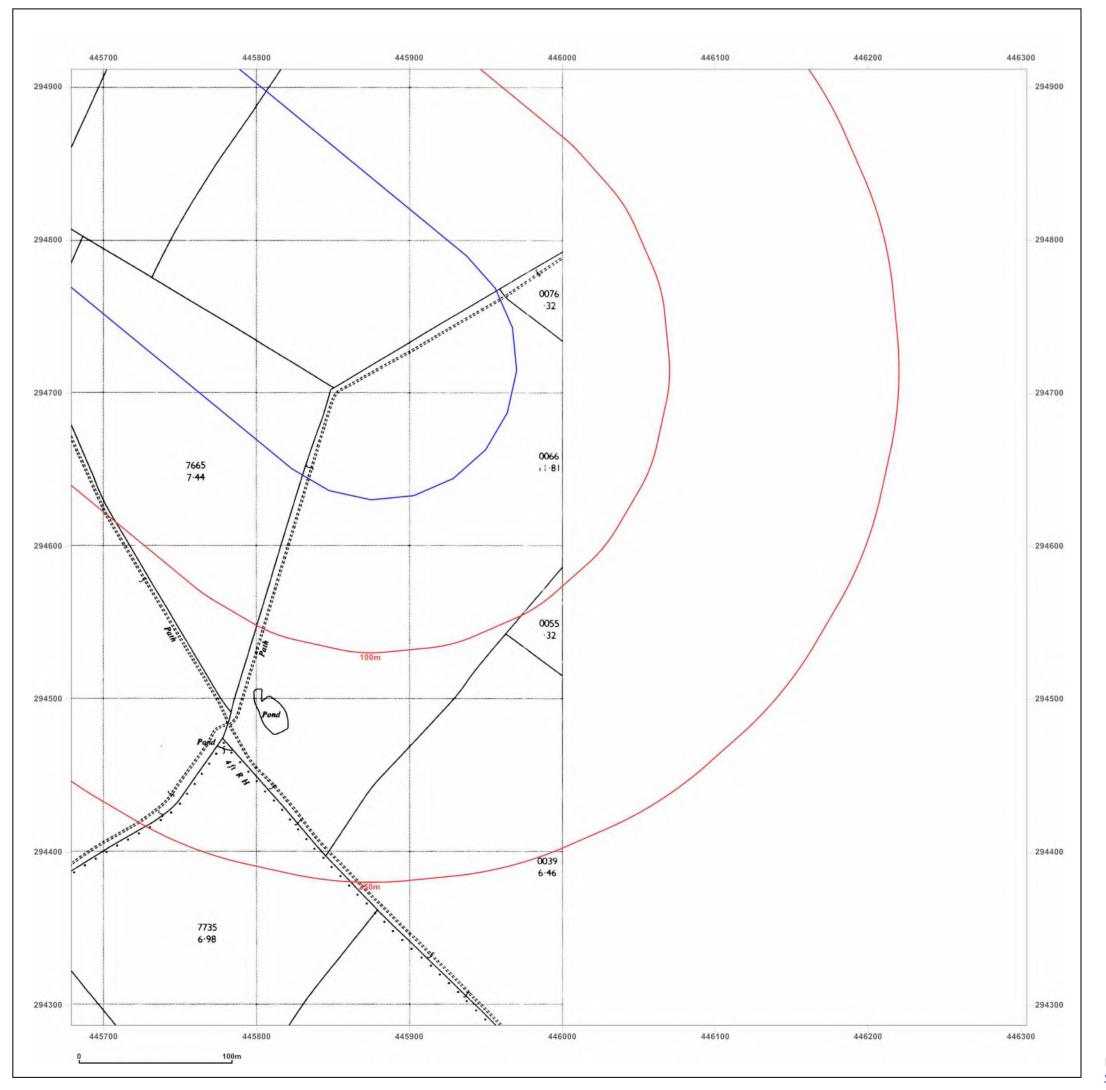


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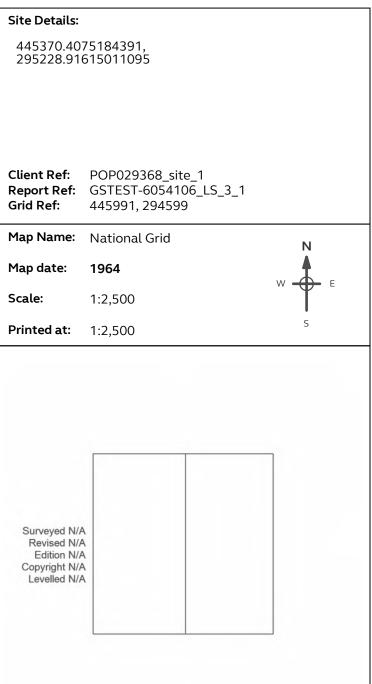
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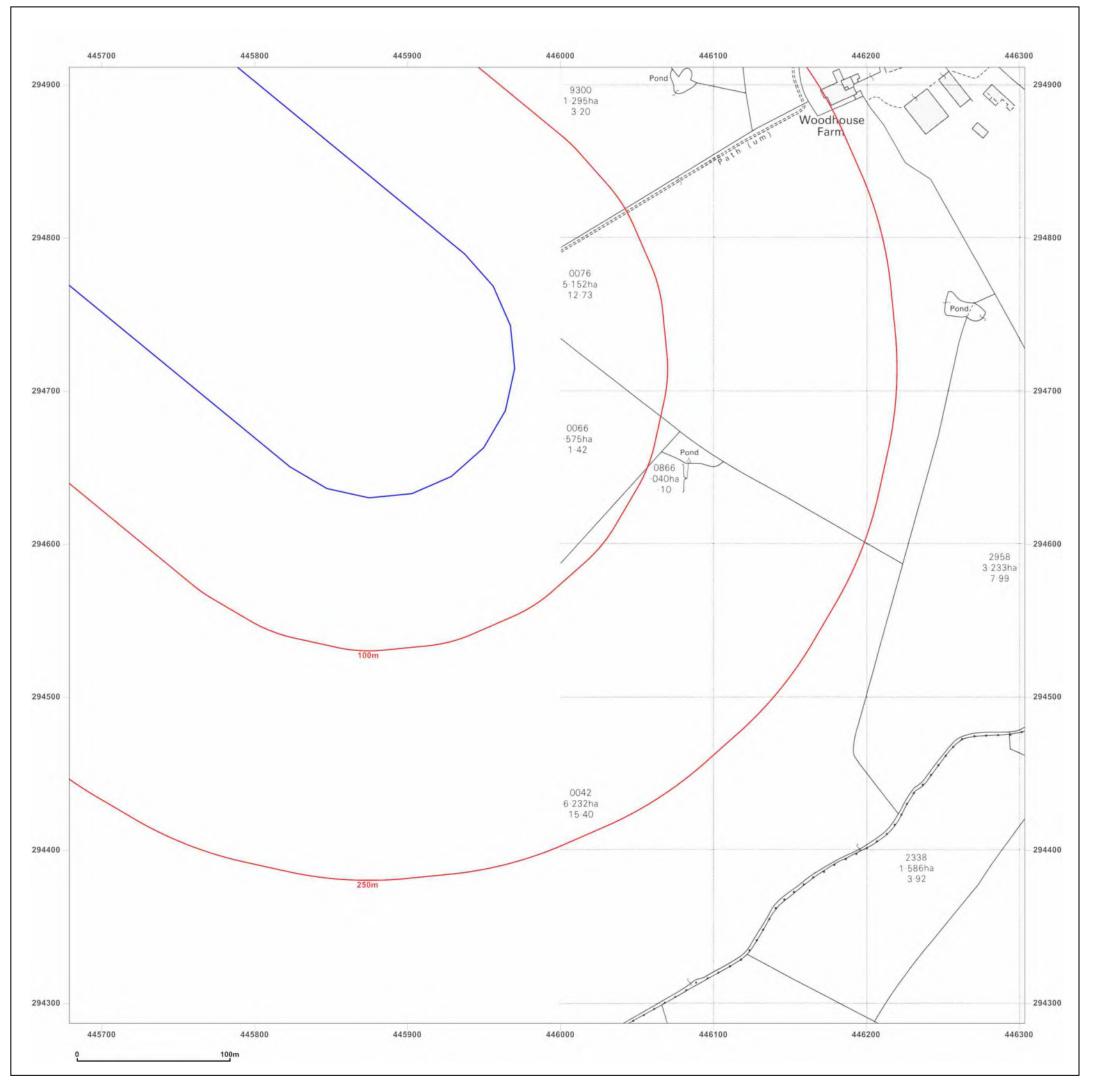


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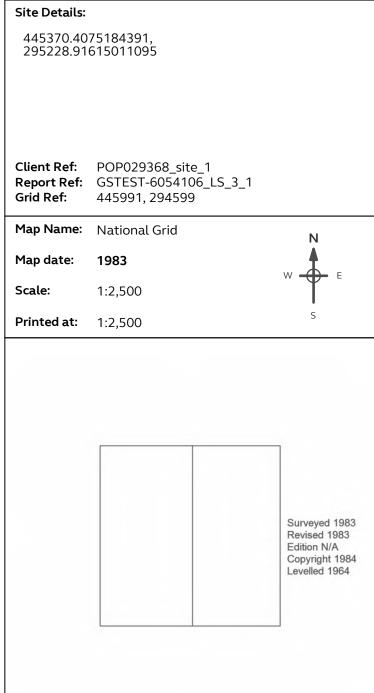
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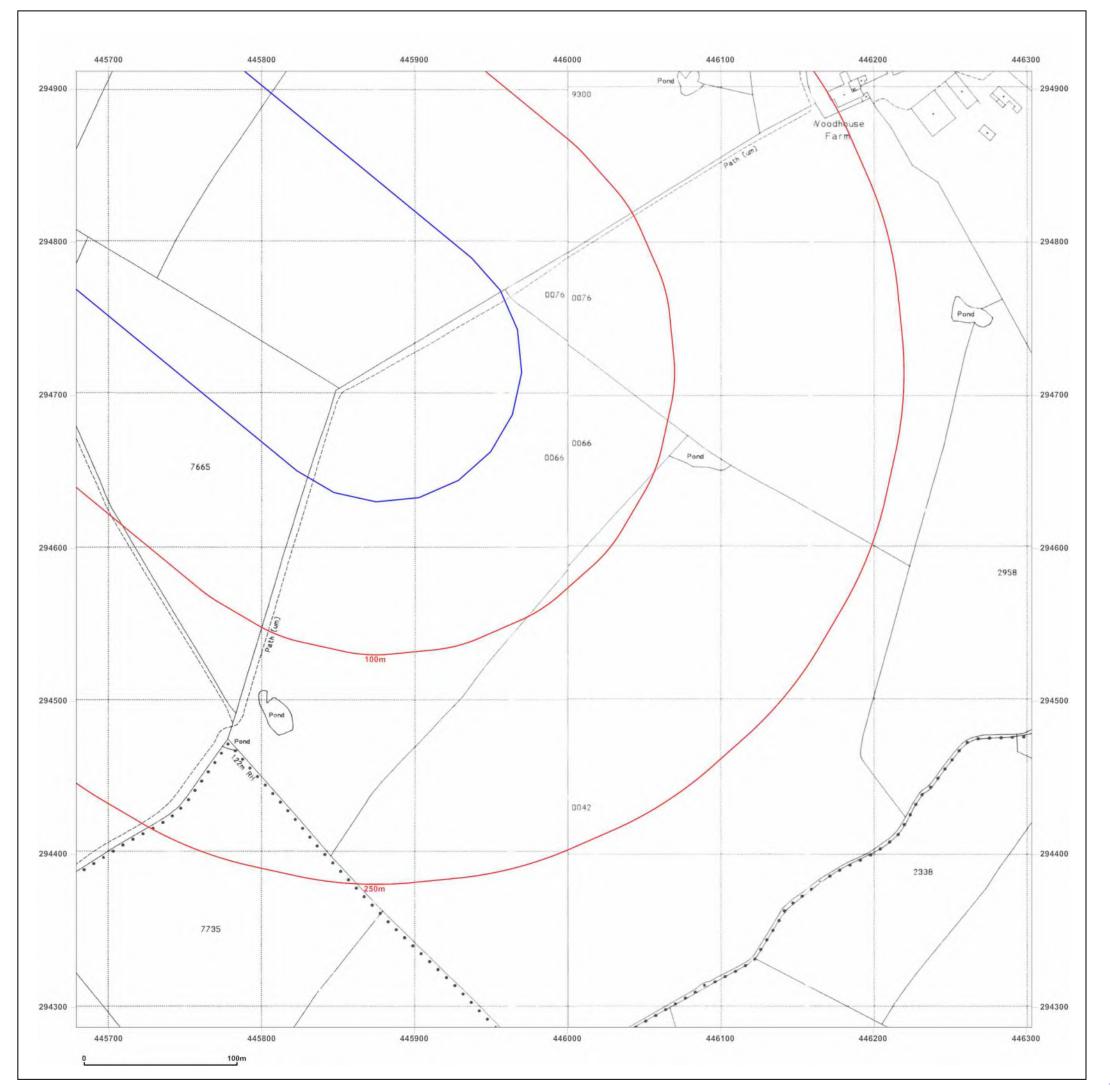


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445370.4075184391, 295228.91615011095

 Client Ref:
 POP029368_site_1

 Report Ref:
 GSTEST-6054106_LS_3_1

 Grid Ref:
 445991, 294599

Map Name: National Grid

Map date: 1994

Scale:

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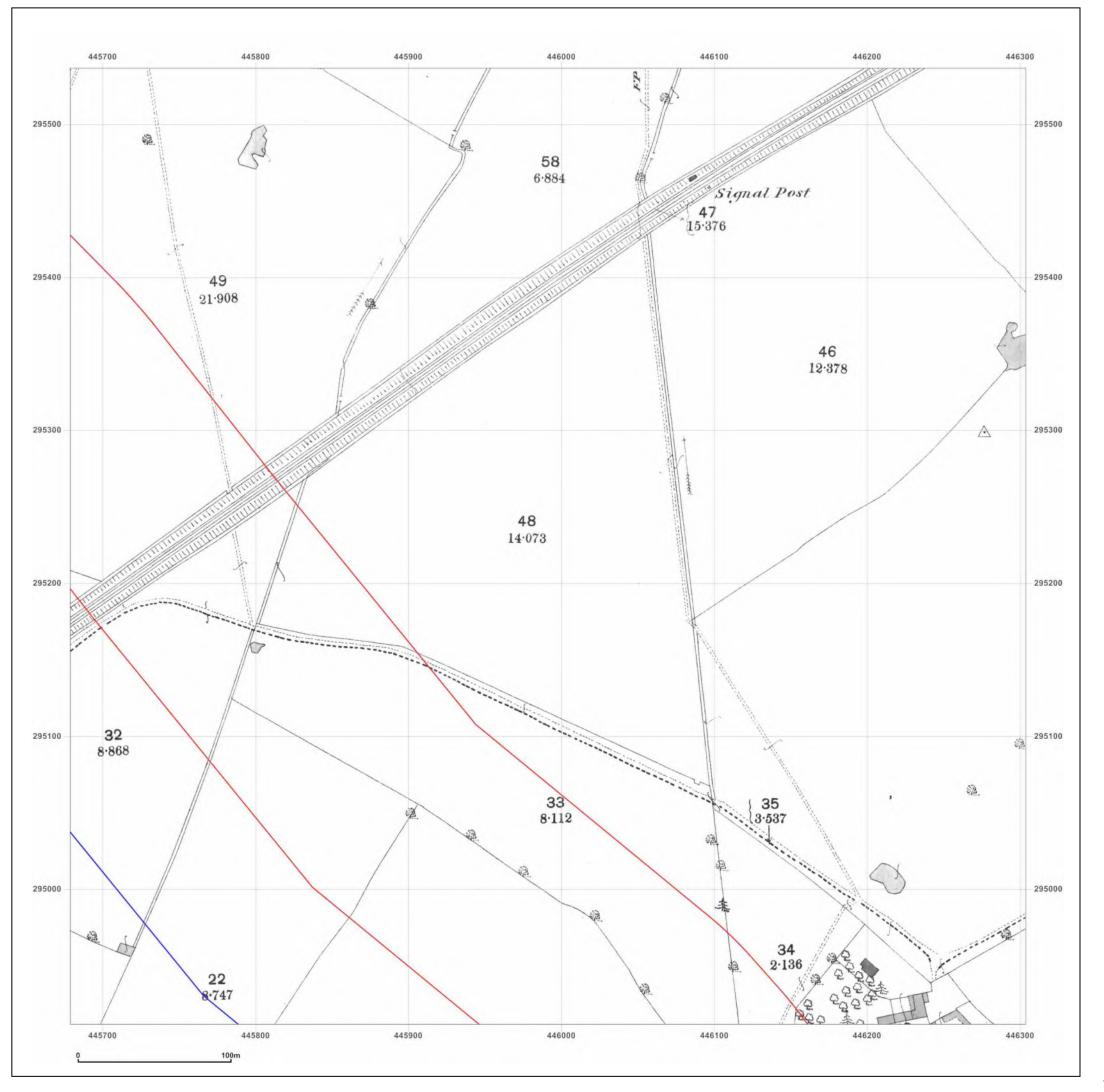


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Client Ref: POP029368_site_1
Report Ref: GSTEST-6054106_LS_3_2

Grid Ref: 445991, 295224

Map Name: County Series

Map date: 1887

Scale: 1:2,500

Printed at: 1:2,500

Surveyed 1887 Revised 1887 Edition N/A Copyright N/A Levelled N/A

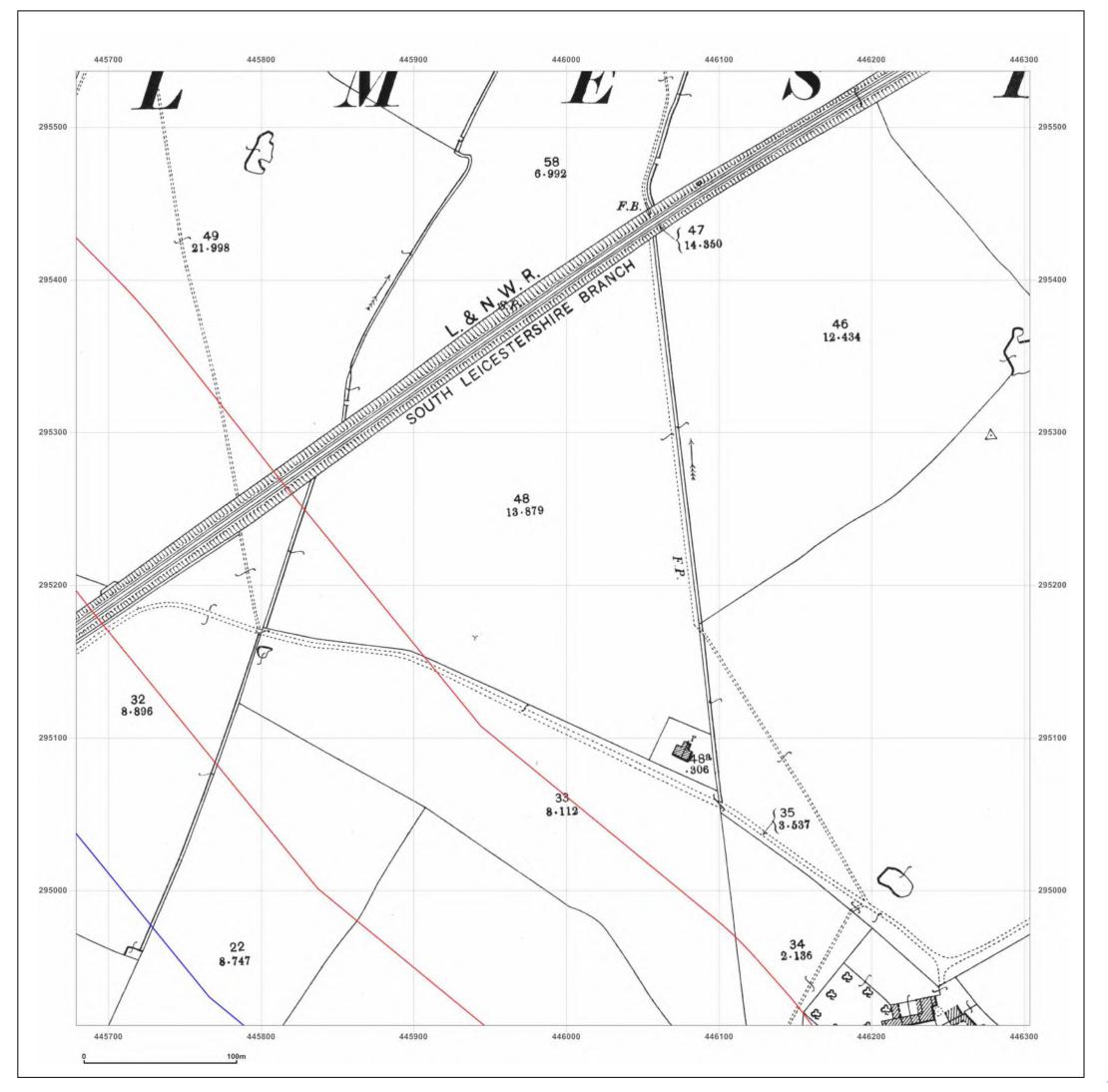


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Report Ref: GSTEST-6054106_LS_3_2

Grid Ref: 445991, 295224

Map Name: County Series

Map date: 1903

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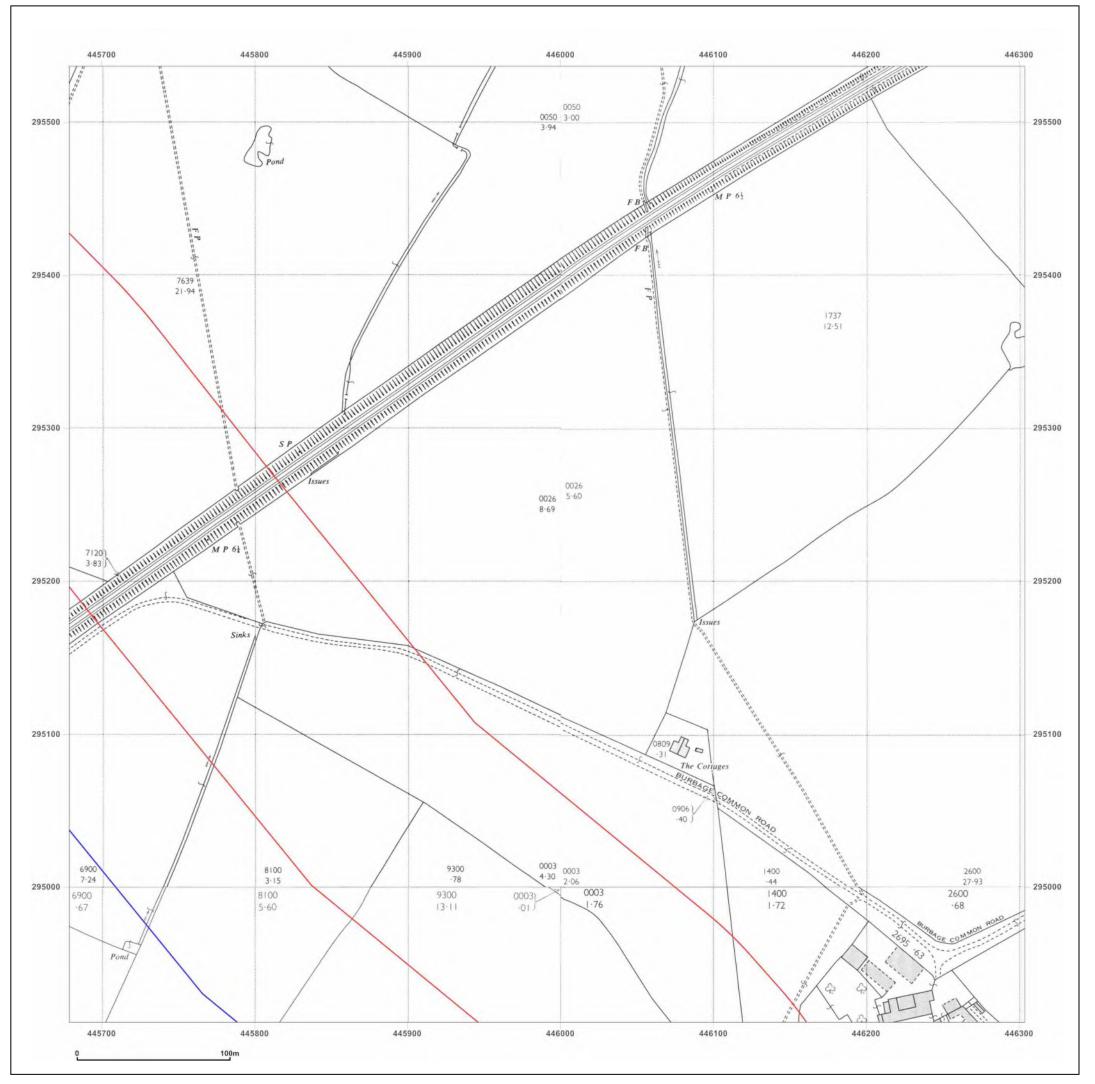


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Site Details: 445370.4075184391, 295228.91615011095 Client Ref: POP029368_site_1 **Report Ref:** GSTEST-6054106_LS_3_2 445991, 295224 **Grid Ref:** Map Name: National Grid 1962-1963 Map date: 1:2,500 Scale: **Printed at:** 1:2,500 Surveyed 1962 Surveyed 1962 Revised 1962 Revised 1962 Edition N/A Edition N/A Copyright 1963 Copyright 1963 Levelled 1945 Levelled 1945 Surveyed 1963 Surveyed 1963 Revised 1963 Revised 1963 Edition N/A Edition N/A Copyright 1964 Copyright 1964 Levelled 1945 Levelled 1945

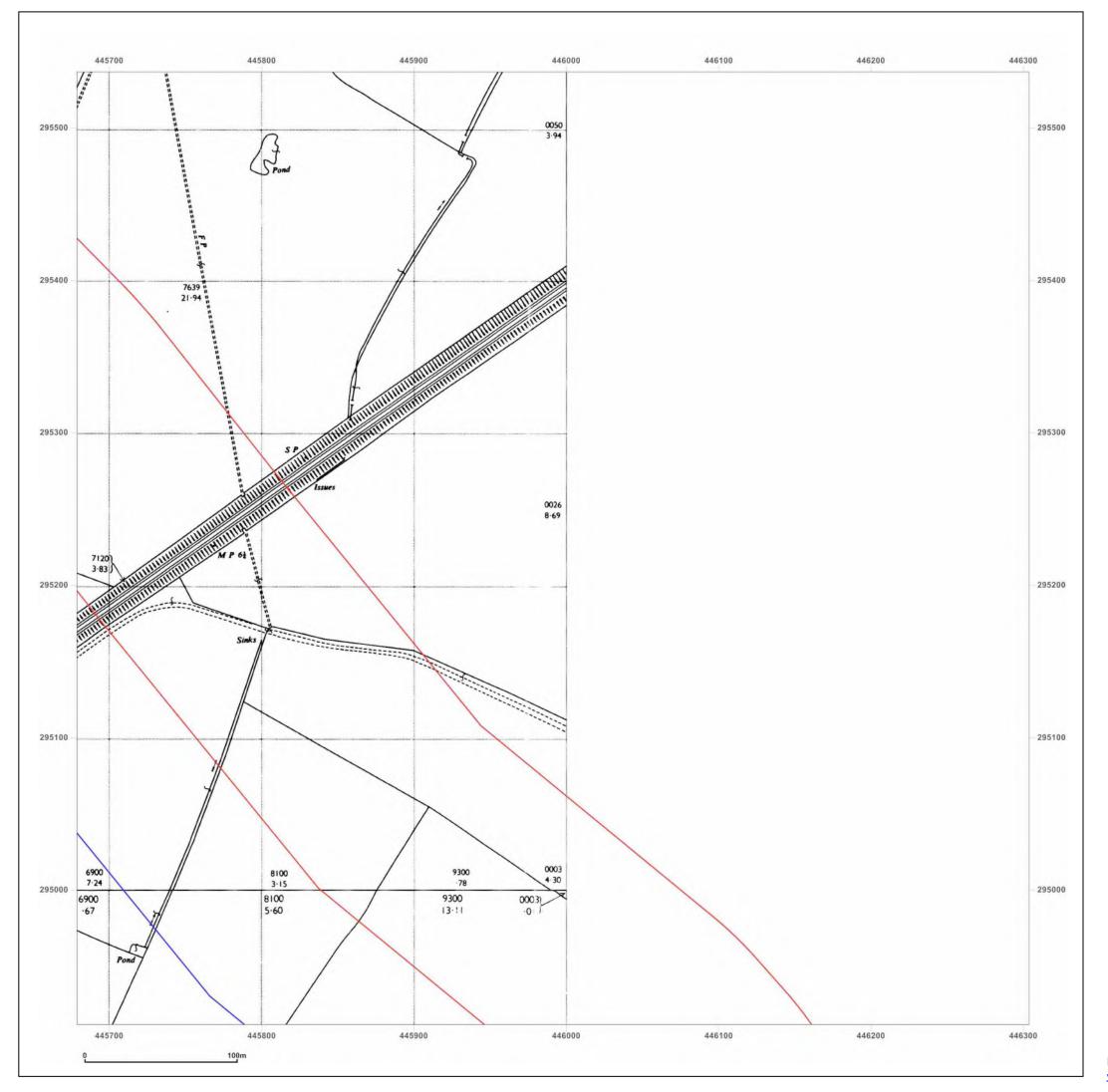


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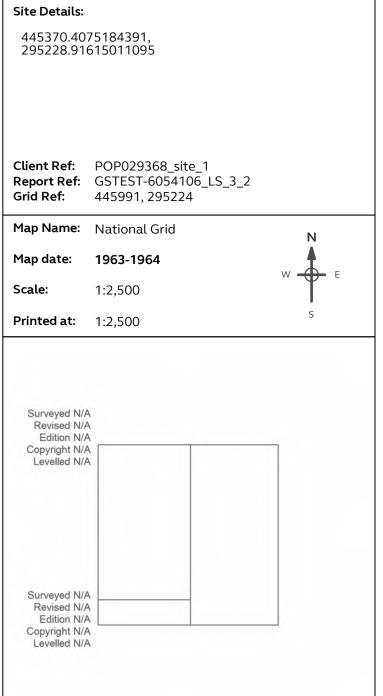
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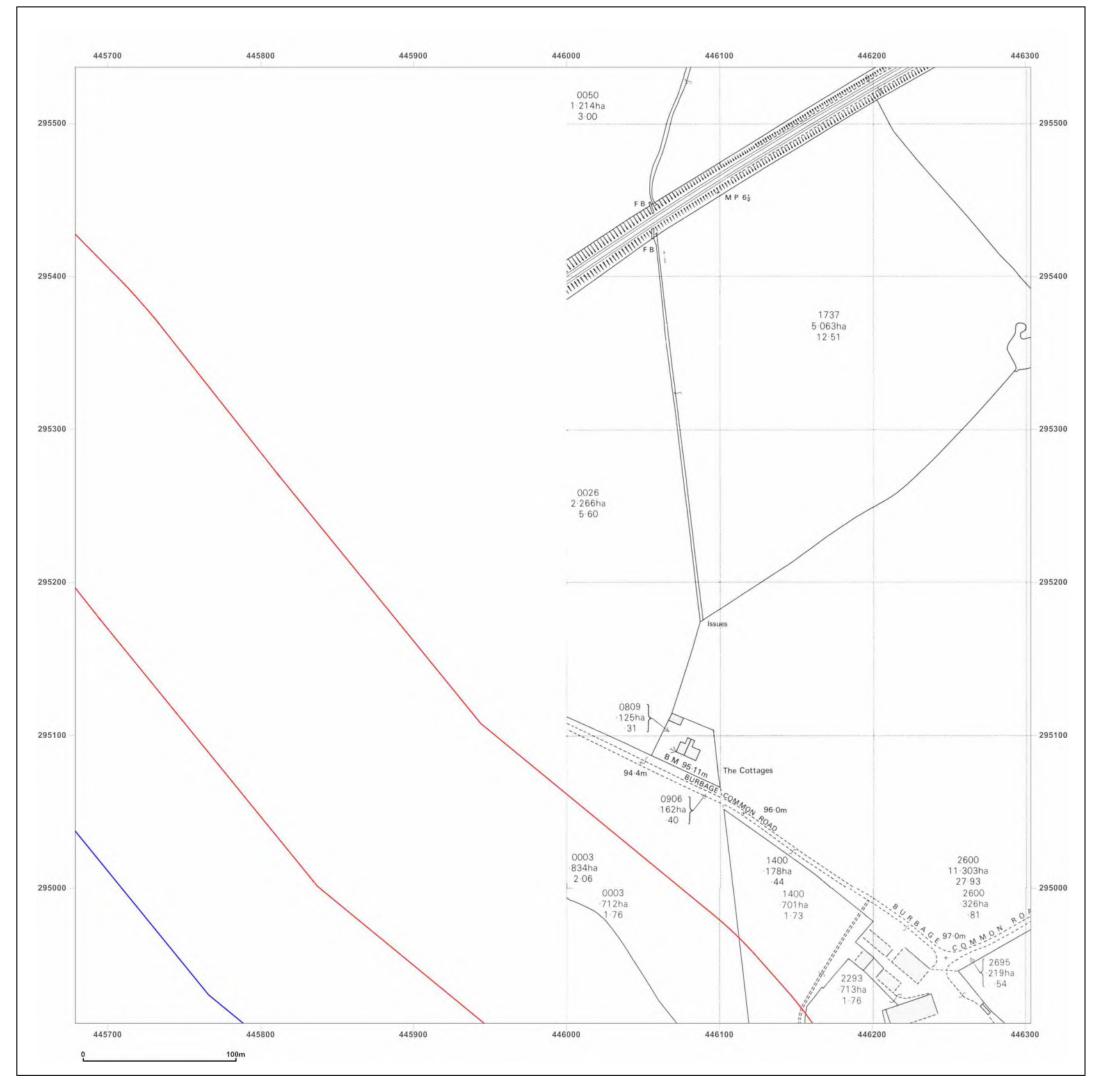


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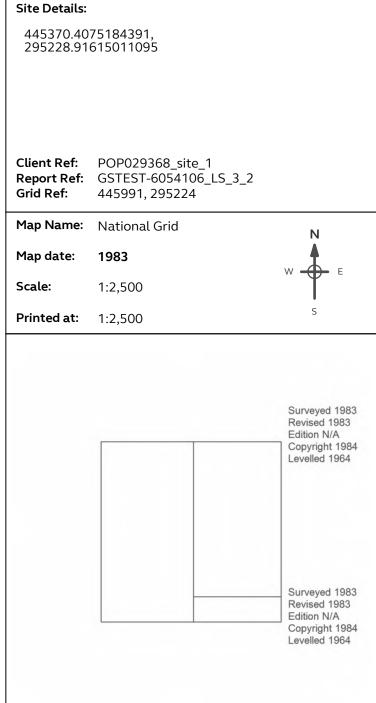
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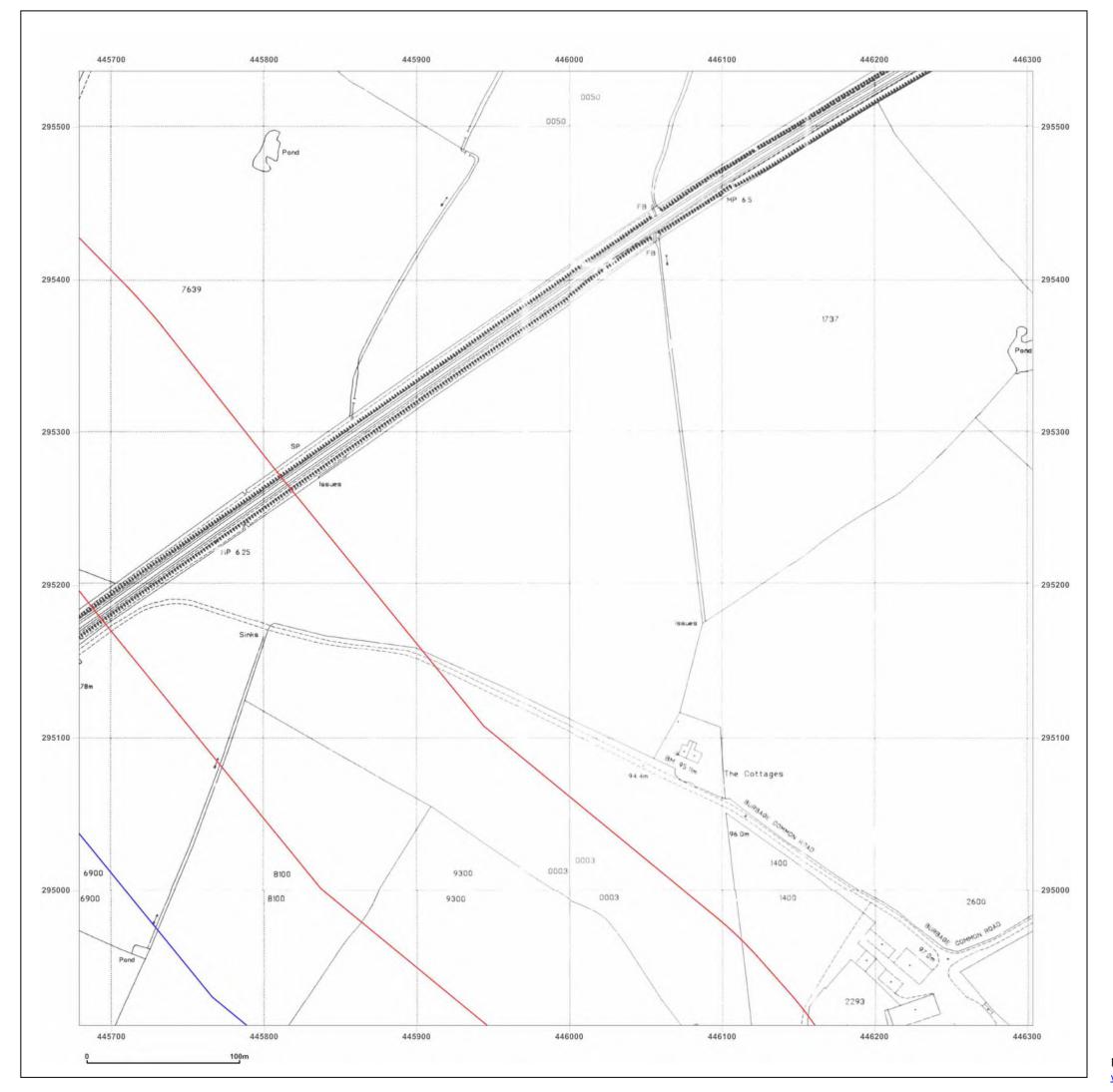


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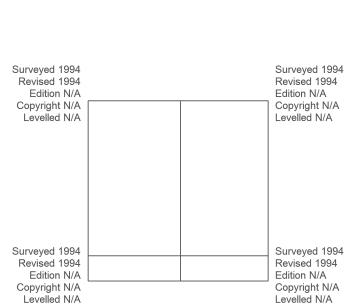
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LOCATION INTELLIGENCE

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GSTEST-6054104

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Report Date

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Yours faithfully,

Managing Director **Groundsure Limited**

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Date: 24 May 2019

Reference: GSTEST-6054104

Client: Groundsure

NW NE



Aerial Photograph Capture date: 13-Aug-2017

Grid Reference: 445370,295229

Site Size: 28.5400ha

Report Reference: GSTEST-6054104 Client Reference: POP029368_site_1

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Standard Terms and Conditions



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.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	9	3	3	10
1.2 Additional Information – Historical Tank Database	0	0	0	0
1.3 Additional Information – Historical Energy Features Database	0	0	0	0
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	0
1.6 Historical military sites	0	0	0	0
1.7 Potentially Infilled Land	9	3	6	16
Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	0
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	0	0	0	4
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	1	3
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0



					LOCATION INT	ELLIGENCE
Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000- 1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searche
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	0	2	0
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	1
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	1	1	Not searched	Not searche
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	5	1	2
Section 4: Current Land Use	On-sit	е	0-50m	51-25	50 2	51-500
4.1 Current Industrial Sites Data	1		1	2	No	ot searched
4.2 Records of Petrol and Fuel Sites	0		0	0		0
4.3 National Grid Underground Electricity Cables	0		0	0		0
4.4 National Grid Gas Transmission Pipelines	0		0	0		0
5.1 Records of Artificial Ground and Made Ground present beneath the study site				dentified		
5.2 Records of Superficial Ground and Drift Geology present beneath the study site			Iden	ntified		
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.						
Section 6: Hydrogeology and Hydrology			0-5	00m		
6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site			Iden	ntified		
6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site			Iden	ntified		
	On-site	0-50m	51-250	251-500	501-1000	1000- 2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	1	0	0	5
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searche
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searche
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	0	2	Not searched	Not searche



Section 6: Hydrogeology and Hydrology	0-500m					
	On-site	0-50m	51-250	251-500	501-1000	1000- 1500
6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site	No	No	No	No	No	No
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	12	0	22	34	Not searched	Not searched
6.11 Surface water features within 250m of the study site	Yes	No	Yes	Not searched	Not searched	Not searched
Section 7: Flooding						
7.1 Enviroment Agency Zone 2 floodplains within 250m of the study site			Iden	tified		
7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site			lden	tified		
7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site			Hi	igh		
7.4 Flood Defences within 250m of the study site			None ic	lentified		
7.5 Areas benefiting from Flood Defences within 250m of the study site			None ic	lentified		
7.6 Areas used for Flood Storage within 250m of the study site			None ic	lentified		
7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site	m Potential at Surface					
7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas			Hi	igh		
Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000- 2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	1	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	2	2	0
8.7 Records of Local Nature Reserves (LNR)	1	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0



Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000- 2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	1	0	0	0	1	0
8.14 Records of Green Belt land	0	0	0	0	0	0

Section 9: Natural Hazards

9.1 Maximum risk of natural ground subsidence	Moderate
9.1.1 Maximum Shrink-Swell hazard rating identified on the study site	Low
9.1.2 Maximum Landslides hazard rating identified on the study site	Very Low
9.1.3 Maximum Soluble Rocks hazard rating identified on the study site	Negligible
9.1.4 Maximum Compressible Ground hazard rating identified on the study site	Moderate
9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site	Very Low
9.1.6 Maximum Running Sand hazard rating identified on the study site	Low

9.2 Radon

9.2.1 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?

9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?

The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

No radon protective measures are necessary.

Section 10: Mining

10.1 Coal mining areas within 75m of the study site	None identified
10.2 Non-Coal Mining areas within 50m of the study site boundary	None identified
10.3 Brine affected areas within 75m of the study site	None identified



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 500m.

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 gas pipelines and underground electricity transmission lines.

5. Geology

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

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal 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, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. 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..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. 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

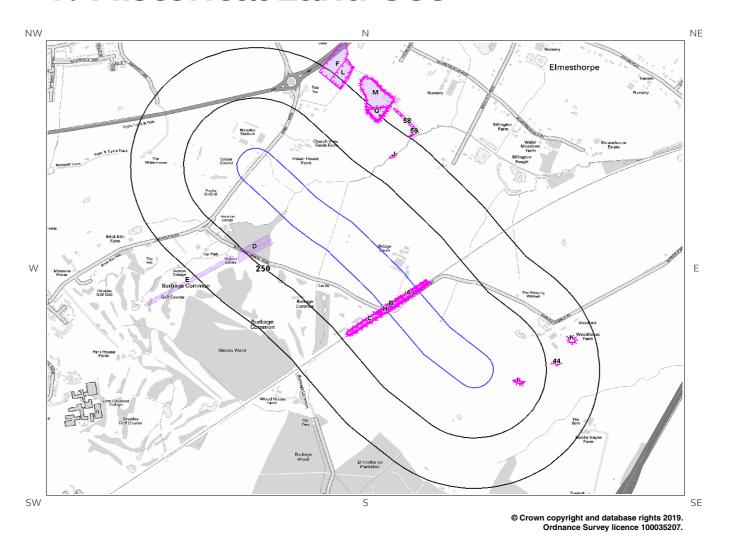
Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -ld: 1, ld: 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).

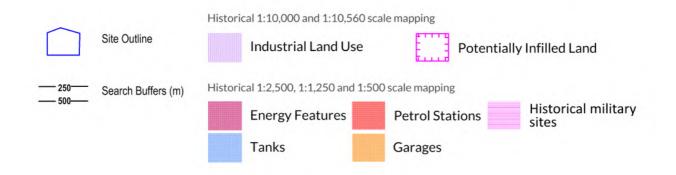
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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 Land Use







1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 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 500m of the search boundary:

ID	Distance [m]	Direction	Use	Date
1A	0	On Site	Cuttings	1904
2A	0	On Site	Cuttings	1886
3A	0	On Site	Cuttings	1950
4B	0	On Site	Cuttings	1968
5B	0	On Site	Cuttings	1978
6B	0	On Site	Cuttings	1886
7C	0	On Site	Cuttings	1904
8C	0	On Site	Cuttings	1886
9H	0	On Site	Cuttings	1950
10C	34	SW	Cuttings	1978
11C	34	SW	Cuttings	1968
12C	34	SW	Cuttings	1950
13D	110	SW	Rifle Range	1886
14D	112	SW	Rifle Range	1904
15D	121	SW	Rifle Range	1886
16E	303	SW	Rifle Range	1886
17E	304	SW	Rifle Range	1901
18E	304	SW	Rifle Range	1938
19E	304	SW	Rifle Range	1923
20F	460	NE	Unspecified Works	1968
21F	460	NE	Sewage Works	1978
22L	462	NE	Sewage Works	1950
23G	467	NE	Unspecified Pit	1886
24G	472	NE	Unspecified Pit	1886
25M	479	NE	Unspecified Pit	1904

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.

Report Reference: GSTEST-6054104 Client Reference: POP029368_site_1

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Records of historical tanks within 500m of the search boundary:

0

Database searched and no data found.

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 500m of the search boundary:

0

Database searched and no data found.

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 500m 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 500m of the search boundary:

0

Database searched and no data found.

1.6 Historical military sites

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.



Records of historical military sites within 500m of the search boundary:

Database searched and no data found.

1.7 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site:

34

0

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

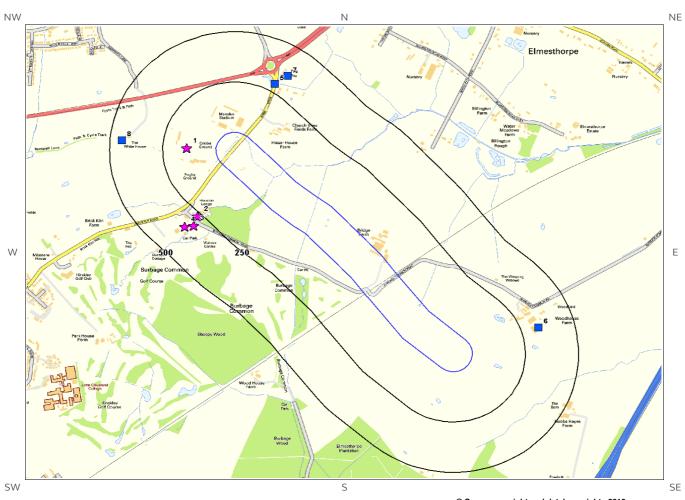
ID	Distance(m)	Direction	Use	Date
26A	0	On Site	Cuttings	1904
27A	0	On Site	Cuttings	1886
28H	0	On Site	Cuttings	1978
29C	0	On Site	Cuttings	1904
30C	0	On Site	Cuttings	1886
31B	0	On Site	Cuttings	1886
32A	0	On Site	Cuttings	1950
33B	0	On Site	Cuttings	1968
34B	0	On Site	Cuttings	1950
35C	34	SW	Cuttings	1968
36C	34	SW	Cuttings	1978
37C	34	SW	Cuttings	1950
381	105	E	Pond	1886
391	110	E	Pond	1886
401	111	Е	Pond	1968
411	111	E	Pond	1978
421	111	E	Pond	1950
431	112	E	Pond	1904
44	283	E	Pond	1904
45J	362	NE	Pond	1968
46J	362	NE	Pond	1978
47K	379	E	Pond	1950
48K	380	E	Pond	1904
49F	460	NE	Sewage Works	1978
50L	462	NE	Sewage Works	1950
51M	466	NE	Fish Pond	1950
52M	467	NE	Fish Ponds	1968
53M	467	NE	Fish Ponds	1978
54G	467	NE	Unspecified Pit	1886
55G	472	NE	Unspecified Pit	1886
56G	472	NE	Fish Ponds	1904
57M	479	NE	Unspecified Pit	1904
58	498	NE	Ponds	1978

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2. Environmental Permits, Incidents and Registers Map



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2. Environmental Permits, **Incidents and Registers**

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales an Authorities reveal the following information:	d Local
2.1.1 Records of historic IPC Authorisations within 500m of the study site:	
	0
Database searched and no data found.	
2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:	
	0
Database searched and no data found.	
2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) 500m of the study site:) within
	0
Database searched and no data found.	
2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:	
	0
Database searched and no data found.	
2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:	
Database searched and no data found.	0



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

0

Database searched and no data found.

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

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

4

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details			
5	290	NE	445040 296060	Address: THE COMMON, BARWELL A, ., ., ., ., LE9 8BB Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TSC1949 Permit Version: 1	Receiving Water: LOCAL DITCH Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03-Sep-2010 Revocation Date: 12/08/2011		
6	331	E	446280 294850	Address: WOOD HOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, ELMESTHORPE, LEICESTERSHIRE, LE9 7SE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: T/50/40122/S Permit Version: 1	Receiving Water: TRIB OF THURLASTON BROOK Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 28/03/1995 Effective Date: 28-Mar-1995 Revocation Date: -		
7	356	NE	445100 296100	Address: THE COMMON, BARWELL, HINCKLEY, LEICESTERSHIRE Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: T/50/03512/O Permit Version: 1	Receiving Water: THURLASTON BROOK (RIVER SOAR) Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY) Issue date: 06/04/1973 Effective Date: 06-Apr-1973 Revocation Date: -		
8	445	W	444320 295780	Address: THE WHITEHOUSE, BARWELL LANE, BARWELL, LEICESTERSHIRE, LE9 8DA Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: T/50/45507/S Permit Version: 1	Receiving Water: TRIB OF THURLASTON BROOK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 12/09/2001 Effective Date: 12-Sep-2001 Revocation Date: -		



2.1.9 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.

2.1.10 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/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

4

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

ID	Distance (m)	Direction	NGR	Details	
1	140	W	444623.0 295741.0	Incident Date: 04-Dec-2007 Incident Identification: 548955.0 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
2	269	SW	444675.0 295403.0	Incident Date: 11-Jun-2002 Incident Identification: 84271.0 Pollutant: Contaminated Water Pollutant Description: Firefighting Run- Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	316	SW	444656.0 295356.0	Incident Date: 14-Aug-2002 Incident Identification: 100115.0 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4	350	SW	444614.0 295350.0	Incident Date: 21-Dec-2001 Incident Identification: 49221.0 Pollutant: Atmospheric Pollutants and Effects	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

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ID	Distance (m)	Direction	NGR	Details
Pollutant Description: Smoke				

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

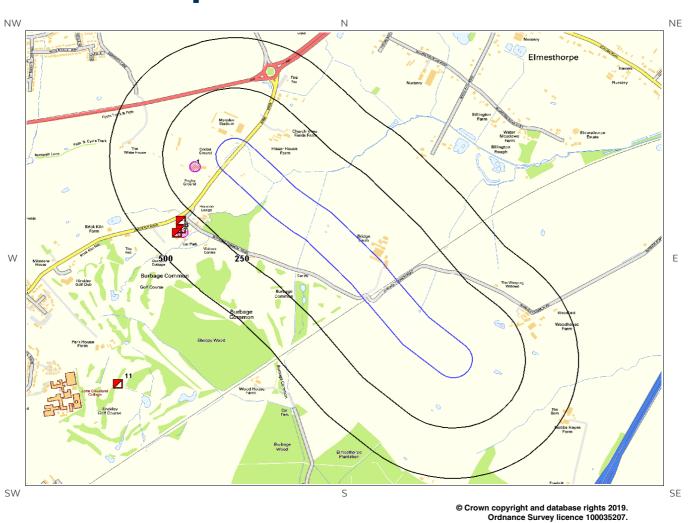
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

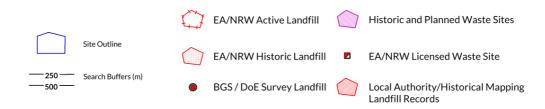
Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site 0

Database searched and no data found.



3. Landfill and Other Waste Sites Map







3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1	Records from	Environment	Agency/Natural	Resources	Wales la	andfill c	lata witl	hin 1000	n of	the stu	udy
site:											

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales 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	S
Not shown	757	NW		Site Address: Barwell Landfill Site C, Church Lane, Church Lane, Barwell, Leicestershire Waste Licence: - Site Reference: GDO 223 Waste Type: Waste Unknown Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	796	NW		Site Address: Barwell Landfill Site C, Church Lane, Church Lane, Barwell, Leicestershire Waste Licence: - Site Reference: GDO 223 Waste Type: Waste Unknown Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -

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

0

Database searched and no data found.



3.1.4 Records of Landfills from Local Authority and Historical Mapping Records 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	NGR	Site Address	Source	Data Type
Not shown	1363	NE	446006 296656	Refuse Tip	1962 mapping	Polygon

3.2 Other Waste Sites

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

2

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	
1	80	W	444665 295679	Type of Site: Landfill Works Site Address: Hinckley Golf Course, Leicester Road, Hinckley, Leicestershire, LE10 3DR	Planning Application Reference: 13/00073/C Date: 21/02/2013	Further Details: Scheme comprises deposit of inert material to remodel and improve the land form of the second green and practice ground (County Council Identity Number: 2013/CM/0024/LCC). Data Source: Historic Planning Application Data Type: Point
2A	328	SW	444606 295352	Type of Site: Waste Transfer Station Site Address: Lynden Lea, Leicester Road, HINCKLEY, Leicestershire, LE10 3DR	Planning Application Reference: 09/00466/C Date: -	Further Details: Scheme comprises partially retrospective application to consolidate premises including demolition of a residential unit and the regularisation of buildings and bunkers county council id number 2009/c072/04. An application (ref: 09/00466/C) for detailed planning permission was submitted to Hinckley & Bosworth B.C. Data Source: Historic Planning Application Data Type: Point



3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

8

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

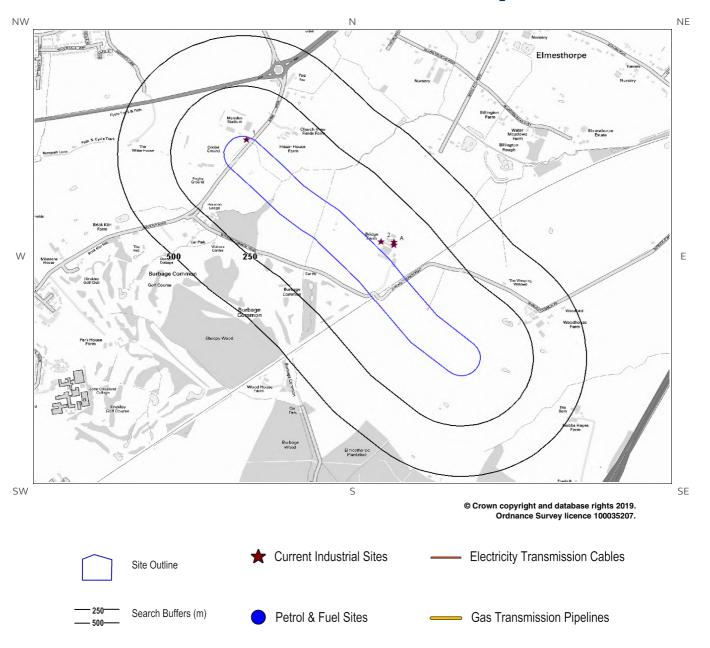
ID	Distance (m)	Direction	NGR	Det	ails
5A	316	SW	444597 295413	Site Address: Lyndon Lea, Leicester Road, Hinckley, Leicestershire, LE10 3DR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MEG002 EPR reference: EA/EPR/WP3793CH/A001 Operator: M & E & G Taylor Waste Management licence No: 43363 Annual Tonnage: 24999.0	Issue Date: 08/07/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Lynden Lea Correspondence Address: -
6A	345	SW	444597 295373	Site Address: M A C Skip Hire Limited, Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETM001 EPR reference: EA/EPR/HB3009HT/T001 Operator: M A C Skip Hire Limited Waste Management licence No: 43716 Annual Tonnage: 74999.0	Issue Date: 12/02/2007 Effective Date: 15/02/2019 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: M A C Skip Hire Limited Correspondence Address: -
7В	373	SW	444580 295350	Site Address: Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Type: - Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETA002 EPR reference: - Operator: E Taylor Skip Hire And Recycling Limited Waste Management licence No: 43716 Annual Tonnage: 0.0	Issue Date: 12/02/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: - Correspondence Address: Highway House Hinckley Road, Wolvey, Leicester, Leicestershire, LE10 3HQ
8B	373	SW	444580 295350	Site Address: Lynden Lea, Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETA002 EPR reference: EA/EPR/DP3190CY/A001 Operator: E Taylor Skip Hire & Recycling Ltd Waste Management licence No: 43716 Annual Tonnage: 74999.0	Issue Date: 12/02/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: E Taylor Skip Hire & Recycling Ltd Correspondence Address: -
9B	373	SW	444580 295350	Site Address: Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETA002 EPR reference: - Operator: E Taylor Skip Hire And Recycling	Issue Date: 12/02/2007 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: 16.04.08 Correspondence Address: Highway House



ID	Distance (m)	Direction	NGR	Det	ails
				Limited Waste Management licence No: 43716 Annual Tonnage: 0.0	Hinckley Road, Wolvey, Leicester, Leicestershire, LE10 3HQ
Not shown	942	NW	444102 296439	Site Address: Goose Lane, Barwell, Leicestershire, LE9 8DH Type: Vehicle Depollution Facility <5000 tps Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ARR013 EPR reference: EA/EPR/DB3407UJ/S002 Operator: Arriva Midlands North Limited Waste Management licence No: 402787 Annual Tonnage: 0.0	Issue Date: 20/11/2015 Effective Date: - Modified: - Surrendered Date: Jun 29 2017 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Vehicle Depollution Facility Correspondence Address: -
11	1106	SW	444300 294600	Site Address: Hinckley Golf Club, Leicester Road, Hinckley, Leicestershire, LE10 3DR Type: Use of waste in construction <100,000 tps Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HGC002 EPR reference: EA/EPR/AB3207CY/S002 Operator: Hinckley Golf Club Limited Waste Management licence No: 400476 Annual Tonnage: 0.0	Issue Date: 30/07/2013 Effective Date: - Modified: - Surrendered Date: Sep 5 2016 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Hinckley Golf Club Correspondence Address: -
Not shown	1493	NE	447029 295808	Site Address: Barrie Mills Motor Salvage, Station Yard, Elmesthorpe, Leicester, Leicestershire, LE9 7SG Type: Metal Recycling Site (Vehicle Dismantler) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MIL002 EPR reference: EA/EPR/ZP3293CL/A001 Operator: Mills Barrie Waste Management licence No: 43318 Annual Tonnage: 5000.0	Issue Date: 16/08/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Barrie Mills Motor Salvage Correspondence Address: -



4. Current Land Use Map





4. Current Land Uses

4.1 Current Industrial Data

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

4

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

ID	Distance (m)	Directio n	Company	NGR	Address	Activity	Category
1	0	On Site	Gas Governor	444868 295806	Leicestershire, LE10	Gas Features	Infrastructure and Facilities
2	34	NE	Hebblethwait e Farms	445502 295297	Bridge Farm, Burbage Common Road, Elmesthorpe, Leicester, Leicestershire, LE9 7SE	Livestock Farming	Farming
3A	65	NE	Silo	445563 295281	Leicestershire, LE9	Hoppers and Silos	Farming
4A	74	NE	Silo	445562 295295	Leicestershire, LE9	Hoppers and Silos	Farming

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 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site:

Database searched and no data found.

0



4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site:	0
Database searched and no data found.	



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
BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL

5.3 Bedrock and Solid Geology

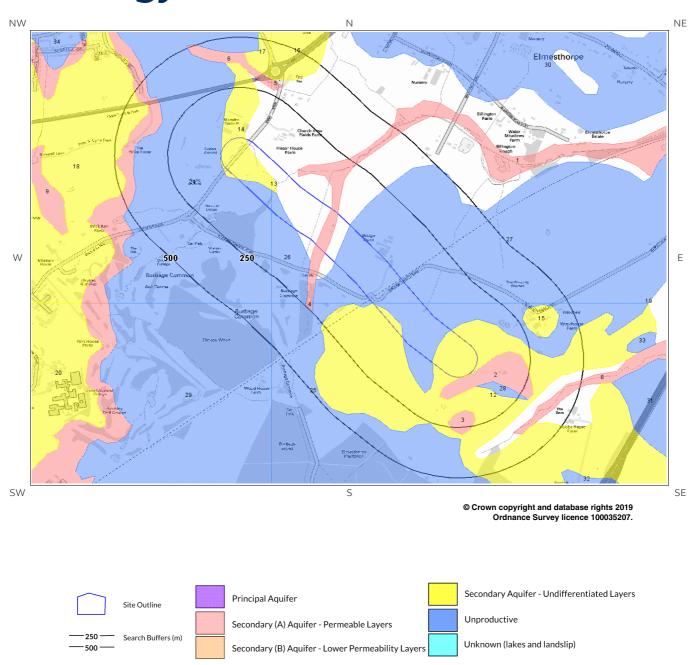
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type	
MMG-MDST	MERCIA MUDSTONE GROUP	MUDSTONE	

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

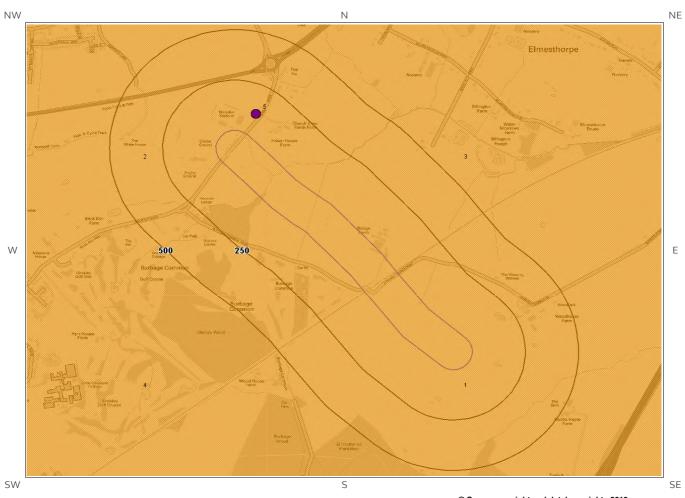


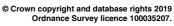
6 Hydrogeology and Hydrology 6a. Aquifer Within Superficial Geology





6b. Aquifer Within Bedrock Geology and Abstraction Licences

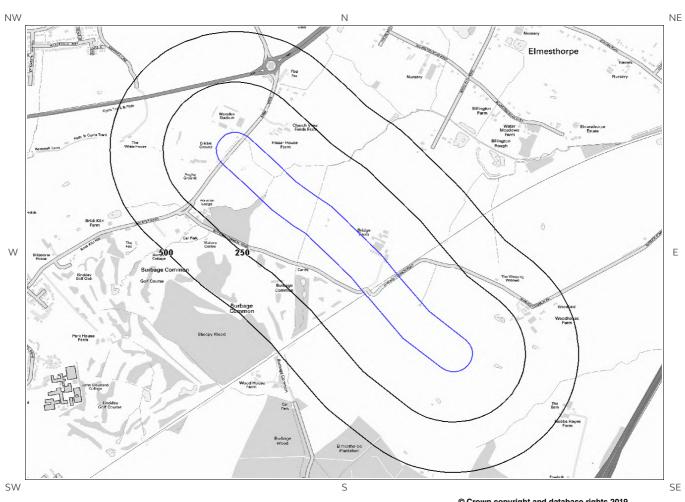


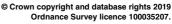


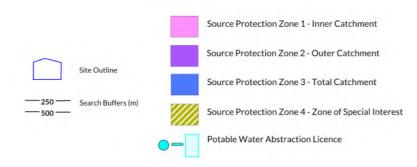




6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences

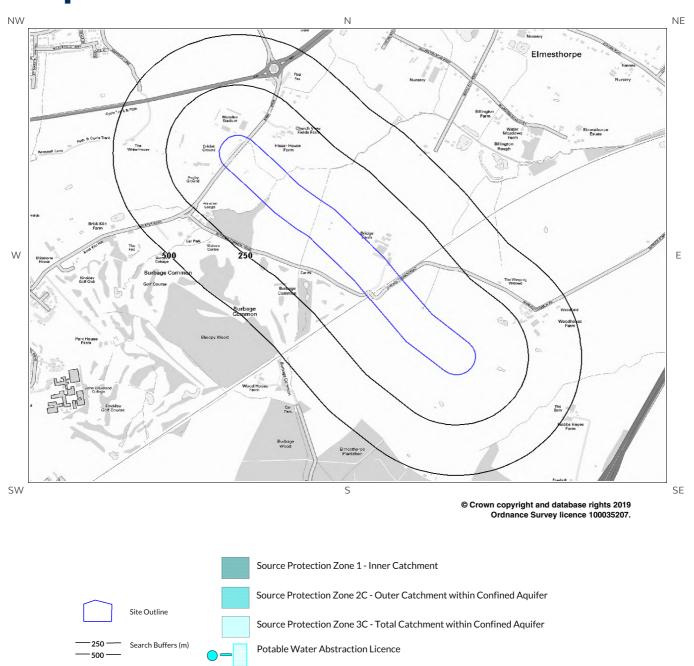






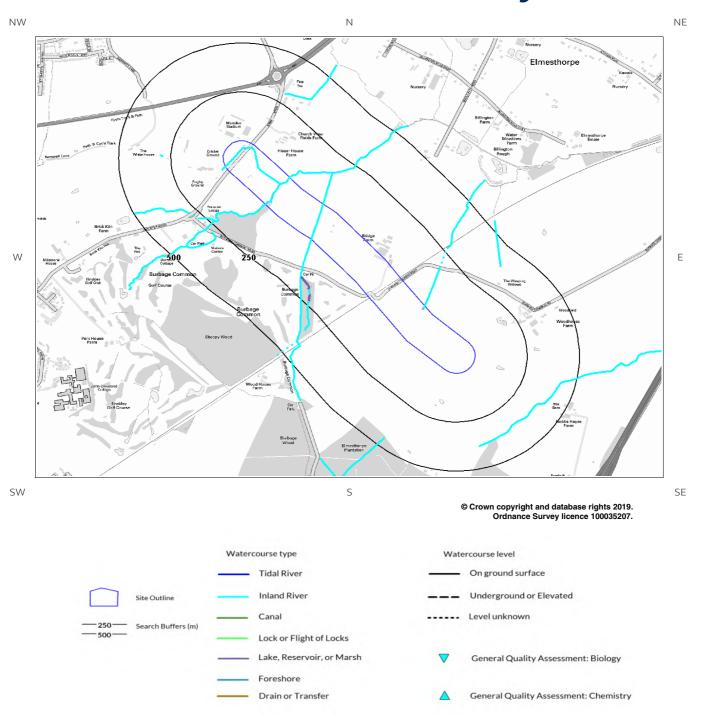


6d. Hydrogeology – Source Protection Zones within confined aquifer





6e. Hydrology – Watercourse Network and River Quality





6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property

Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales'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 Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distanc e (m)	Direction	Designation	Description
1	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
2	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
12	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
13	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
14	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
24	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
25	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
26	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
27	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
28	69	SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
3	163	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
4	214	SW	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	270	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
5	274	NE	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	277	NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



ID	Distanc e (m)	Direction	Designation	Description
7	313	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
16	320	N	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
17	322	N	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	353	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
29	354	SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
18	394	NW	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

Records of strata classification within the bedrock geology at or in proximity to the property

Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales'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 Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distanc e (m)	Direction	Designation	Description
1	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 permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	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 permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
3	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 permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
4	354	SW	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers



6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site

Identified

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details		
5	106	NE	444950 295900	Status: Historical Licence No: 03/28/50/0140 Details: Spray Irrigation - Storage Direct Source: Groundwater Midlands Region Point: HINCKLEY UTD FC-BOREHOLE Data Type: Point Name: HINCKLEY UNITED FOOTBALL CLUB LIMITED	Annual Volume (m³): 20000 Max Daily Volume (m³): 108 Original Application No: - Original Start Date: 24/01/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 13/03/2005 Version End Date:	
Not show n	1353	SE	446900 293700	Status: Historical Licence No: 03/28/50/0019 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: SAPCOTE FIELDS FARM - WELL(1) Data Type: Point Name: TAYLOR	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 29/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date:	
Not show n	1777	SE	447200 293400	Status: Historical Licence No: 03/28/50/0019 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: SAPCOTE FIELDS FARM - WELL(2) Data Type: Point Name: TAYLOR	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 29/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date:	
Not show n	1963	SE	447600 293600	Status: Historical Licence No: 03/28/50/0011 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: BOUNDARY FARM Data Type: Point Name: CLARKE	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 03/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date:	
Not show n	1967	W	442800 295600	Status: Historical Licence No: 03/28/20/0068 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: LOWER SUNNYSIDE FARM, WELL Data Type: Point Name: DENSON	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 24/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/02/1966 Version End Date:	
Not show n	1969	W	442800 295900	Status: Historical Licence No: 03/28/20/0065 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: SUNNYSIDE FARM, HINCKLEY - WELL Data Type: Point Name: J ADCOCK & SONS	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 04/03/1965 Expiry Date: - Issue No: 100 Version Start Date: 05/08/1994 Version End Date:	



6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site	None identified
Database searched and no data found.	
6.5 Potable Water Abstraction Licences	
Potable Water Abstraction Licences within 2000m of the study site	None identified
Database searched and no data found.	
6.6 Source Protection Zones	
Source Protection Zones within 500m of the study site	None identified
Database searched and no data found.	

6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site

None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.



6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site

Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.
374	NW	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.
489	W	Minor Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.

6.9 River Quality

Environment Agency/Natural Resources	Wales information on river quality within	1500m of the study
site		None identified

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Database searched and no data found.

6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.



The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
1	0 On Site		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
2	0 On Site		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
3	0 On Site		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
4	0 On Site		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
5	0 On Site		Lake, loch or reservoir.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.6
6	0 On Site		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
9	0 On Site		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
10	0 On Site		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
11	0 On Site		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
12	0 On Site		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
13	0 On Site		Lake, loch or reservoir.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.6
14	On Site		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions)



ID	Distance/ Direction	Name	Type of Watercourse	Additional Details	
				Average Width in Watercourse Section (m): Not Provided	
7	155 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.6	
15	155 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 1.6	
8	169 SW	-	Lake, loch or reservoir.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 13.5	
9	169 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
16	169 SW	-	Lake, loch or reservoir.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 13.5	
17	169 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
10	175 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
18	175 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
11	189 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
19	189 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
12	203 SW	-	Lake, loch or reservoir.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 8.3	
20	203 SW	-	Lake, loch or reservoir.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 8.3	



				LOCATION INTELLIGENCE		
ID	Distance/ Direction	Name	Type of Watercourse	Additional Details		
13	223 NE		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
21	223 NE		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
14	226 - NE		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.3		
22	226 - NE		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 2.3		
15	230 SW		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
16	230 SW		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
17	230 SW		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
23	230 SW		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
24	230 SW		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
25	230 SW		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
18	268 - NE		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
26	268 - NE		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
19	274 -		Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Not provided		



				LOCATION INTELLIGENCE		
ID	Distance/ Direction	Name	Type of Watercourse	Additional Details		
	SW			Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
27	274 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
20	276 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
28	276 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
21	283 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
29	283 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
22	289 W	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
30	289 W	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
23	290 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
31	290 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
24	301 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
32	301 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided		
25	313 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions)		



ID	Distance/ Direction	Name	Type of Watercourse	Additional Details	
				Average Width in Watercourse Section (m): Not Provided	
33	313 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
26	317 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
34	317 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
27	327 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
35	327 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
28	355 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
36	355 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
29	396 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
37	396 NE	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
30	410 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
31	410 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	
38	410 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided	



ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
39	410 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: Not provided Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
32	412 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
40	412 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
33	420 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
41	420 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
34	449 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	449 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Trent Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided



6.11 Surface Water Features

Surface water features within 250m of the study site

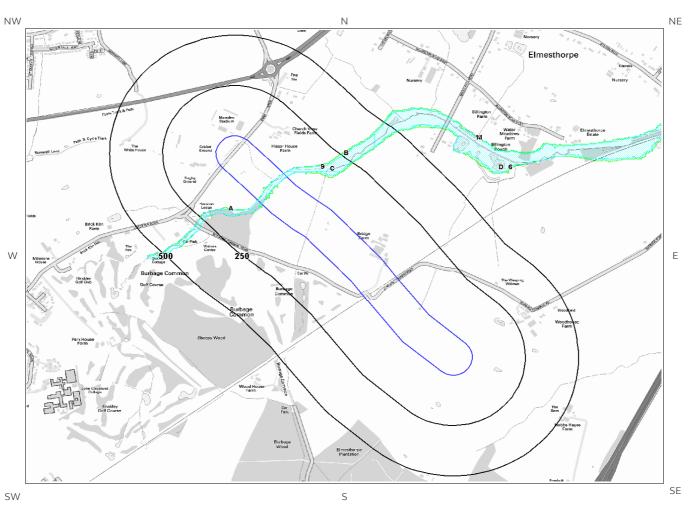
Identified

The following surface water records are not represented on mapping:

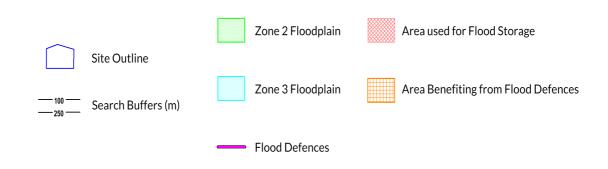
Distance (m)	Direction
0	On Site
81	NE
87	NE
136	SW
157	NE
161	SW
169	SW
173	NE
189	SW
202	SW
225	NE
230	SW
230	SW
230	SW
235	SW
241	SW



7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)

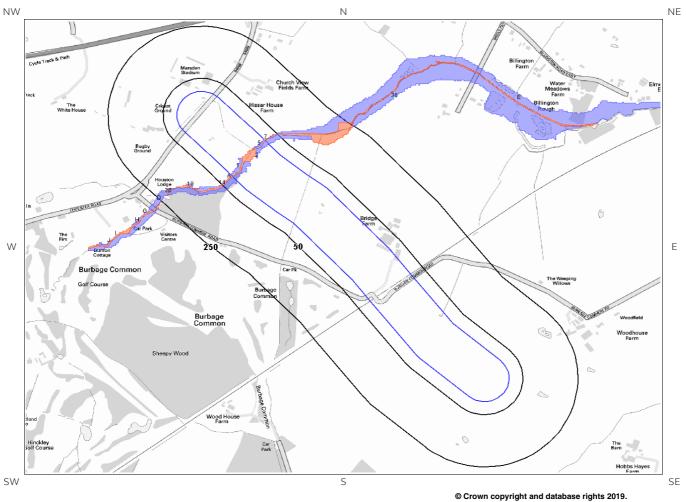


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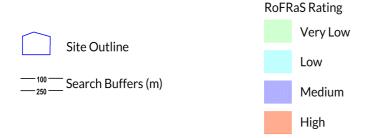




7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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7 Flooding

7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m

Identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

ID	Distance (m)	Direction	Update	Туре
1A	0	On Site	21-Feb-2019	Zone 2 - (Fluvial /Tidal Models)
2B	22	NE	21-Feb-2019	Zone 2 - (Fluvial /Tidal Models)
3C	110	NE	21-Feb-2019	Zone 2 - (Fluvial /Tidal Models)

7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m

Identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a - Flood Map for Planning.

ID	Distance (m)	Direction	Update	Туре
1A	0	On Site	21-Feb-2019	Zone 3 - (Fluvial /Tidal Models)
2B	22	NE	21-Feb-2019	Zone 3 - (Fluvial /Tidal Models)
3C	120	NE	21-Feb-2019	Zone 3 - (Fluvial /Tidal Models)
	122	NE	21-Feb-2019	Zone 3 - (Fluvial /Tidal Models)

Report Reference: GSTEST-6054104 Client Reference: POP029368_site_1

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7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

Highest risk of flooding onsite

High

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a High (1 in 30 or greater) chance of flooding in any given year.

Any relevant data within 250m is represented on the RoFRaS Flood map. Data to 50m is reported in the table below.

ID	Distance (m)	Direction	RoFRas flood Risk
1	0.0	On Site	Medium
2	0.0	On Site	Medium
3	0.0	On Site	Medium
4C	0.0	On Site	Medium
5	0.0	On Site	Medium
6	0.0	On Site	High
7	7.0	NE	Medium
8A	13.0	SW	Medium
9A	21.0	SW	Medium
10B	23.0	NE	Medium
11A	27.0	SW	Medium
12A	33.0	SW	Medium
13A	39.0	SW	Medium
14	46.0	SW	Medium
15B	48.0	NE	High

7.4 Flood Defences

Flood Defences within 250m of the study site

Database searched and no data found.

None identified

7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site

None identified

7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site

None identified



7.7 Groundwater Flooding Susceptibility Areas

7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site

Clearwater Flooding or Superficial Deposits Flooding

Superficial Deposits Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Potential at Surface

Where potential for groundwater flooding to occur at surface 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.

7.8 Groundwater Flooding Confidence Areas

British Geological Survey confidence rating in this result

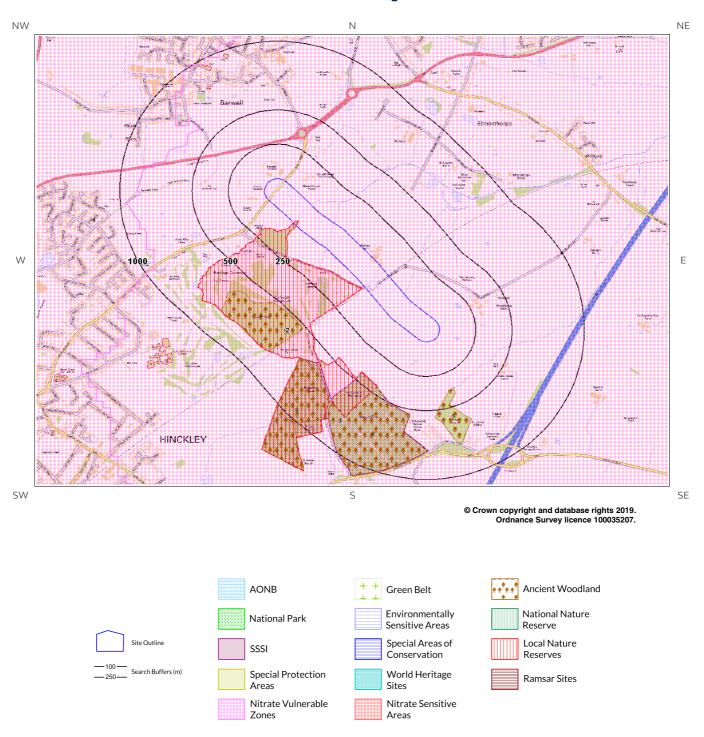
High

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





8. Designated Environmentally Sensitive Sites

Desi	gnated E	invironmen	stally Sensitive Sites within 2000m of the study site	Identified
8.1 site		s of Sites	s of Special Scientific Interest (SSSI) within 2000m of the stu	udy
				1
			Special Scientific Interest (SSSI) records provided by Natural England presented as polygons on the Designated Environmentally Sensitive Sites	
ID	Distance (m)	Direction	SSSI Name Data So	ource
1	432	SW	Burbage Wood and Aston Firs Natural E	England
8.2	Record	s of Natio	onal Nature Reserves (NNR) within 2000m of the study site	<u>.</u> :
				0
			Database searched and no data found.	
8.3	Record	s of Spec	cial Areas of Conservation (SAC) within 2000m of the study	site:
				0
			Database searched and no data found.	
8.4	Record	s of Spec	cial Protection Areas (SPA) within 2000m of the study site:	•
				0
			Database searched and no data found.	
8.5	Record	s of Ram	sar sites within 2000m of the study site:	-
				0
			Database searched and no data found.	



8.6 Records of Ancient Woodland within 2000m of the study site:

4

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
5	372	SE	FREEHOLT WOOD	Ancient and Semi-Natural Woodland
6	450	SW	ASTON FIRS	Ancient and Semi-Natural Woodland
7	516	SW	SHEEPY WOOD	Ancient and Semi-Natural Woodland
8	600	SW	ASTON FIRS	Ancient and Semi-Natural Woodland

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

1

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	LNR Name	Data Source
2	0	On Site	Burbage Common & Woods	Natural England

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

0

Database searched and no data found.

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

0

Database searched and no data found.



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

tudy site.		
	Database searched and no data found.	
11 Records of Natio	onal Parks (NP) within 2000m of the study site:	
	Database searched and no data found.	
.12 Records of Nitra	te Sensitive Areas within 2000m of the study site:	
	Database searched and no data found.	
B.13 Records of Nitra	te Vulnerable Zones within 2000m of the study site:	

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
3	0	On Site	Existing	DEFRA
4	610	NW	Changed	DEFRA

8.14 Records of Green Belt land within 2000m of the study site:

Database searched and no data found.

0

2



9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a **Groundsure Geo Insight**, available from **our website**. The following information has been found:

9.1.1 Shrink Swell

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.

9.1.2 Landslides

Maximum Landslide* 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

Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site

Negligible

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

Hazard

Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

^{*} This indicates an automatically generated 50m buffer and site.



9.1.4 Compressible Ground

Maximum Compressible Ground* 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 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. Extra construction costs are likely. For existing property possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.

9.1.5 Collapsible Rocks

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.

9.1.6 Running Sand

Maximum Running Sand** 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 running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property no significant increase in insurance risk due to running sand problems is likely.

Report Reference: GSTEST-6054104 Client Reference: POP029368_site 1

56

^{*} This indicates an automatically generated 50m buffer and site.



9.2 Radon

9.2.1 Radon Affected Areas

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 site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing

ones as described in publication BR211 by the Building Research Establishment?

No radon protective measures are necessary.



10. Mining

10.1 Coal Mining

Coal mining areas within 75m of the study site

None identified

Database searched and no data found.

10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary

None identified

Database searched and no data found.

10.3 Brine Affected Areas

Brine affected areas within 75m of the study site Guidance: No Guidance Required.

None identified



Contact Details

Groundsure Helpline

Telephone: 08444 159 000 info@groundsure.com



LOCATION INTELLIGENCE

Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

British Geological Survey Enquiries

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Web:www.bgs.ac.uk

BGS Geological Hazards Reports and general geological enquiries:

enquiries@bgs.ac.uk

Environment Agency

National Customer Contact Centre, PO Box 544 Rotherham, S60 1BY Tel: 03708 506 506

Web: www.environment-agency.gov.uk Email: enquiries@environment-agency.gov.uk

Public Health England

Public information access office Public Health England, Wellington House 133-155 Waterloo Road, London, SE1 8UG www.gov.uk/phe

Email:enquiries@phe.gov.uk
Main switchboard: 020 7654 8000



British

Public Health England

The Coal Authority

200 Lichfield Lane Mansfield Notts NG18 4RG Tel: 0345 7626 848 DX 716176 Mansfield 5

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Ordnance Survey

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Local Authority

Authority: Blaby District Council
Phone: 01162 750 555
Web: http://www.blaby.gov.uk/
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Gemapping PLC

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Acknowledgements: 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, Natural England/Natural Resources Wales who retain the Copyright and Intellectual Property Rights for the data.

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GSTEST-6054105

Groundsure

Reference: ,SOVEREIGN HOUSE, CHURCH STREET,

BRIGHTON, BN1 1UJ Your Reference: POP029368_site_1

> 24 May 2019 Report Date

Report Delivery Email - pdf

Method:

Geo Insight

Groundsure

Address: 445370.4075184391, 295228.91615011095,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the Groundsure Geo Insight 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**

Groundsure Geo Insight



Geo Insight

Address: 445370.4075184391, 295228.91615011095,

Date: 24 May 2019

Reference: GSTEST-6054105

Client: Groundsure

NW NE



SW SE

Aerial Photograph Capture date: 13-Aug-2017 Grid Reference: 445370,295229 Site Size: 28.5400ha



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Overview of Findings

The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the 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.

Section 1: Geology 1:10,000 Scale							
1.1 Artificial Ground	1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale?	No					
1.2 Superficial Geology and Landslips	1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?*	Yes					
	1.2.2 Are there any records of landslip within 500m of the study site boundary at 1:10,000 scale?	No					
1.3 Bedrock, Solid Geology and linear	1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.						
features	1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale?	No					
Section 2: Geolo	gy 1:50,000 Scale						
2.1 Artificial Ground	2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?	No					
	2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary?	No					
2.2 Superficial Geology and	2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?*	Yes					
Landslips	2.2.2 Are there any records of permeability of superficial ground within 500m of the study site?	Yes					
	2.2.3 Are there any records of landslip within 500m of the study site boundary?	No					
	2.2.4 Are there any records relating to permeability of landslips within the study site* boundary?	No					



Saction	7.	Coology	1:50.000	Scala
Section	/ .	CHOICH	1.30.00	Scare

2.3 Bedrock, Solid Geology and linear features

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

2.3.2 Are there any records relating to permeability of bedrock ground within the study site boundary?

Yes

2.3.3 Are there any records of linear features within 500m of the study site boundary?

No

Section 3: Radon

3. Radon

3.1Is the property in a Radon Affected Area as defined by the Health The property is not in a Radon Affected Protection Agency (HPA) and if so what percentage of homes are above the Action Level?

Area, as less than 1% of properties are above the Action Level.

3.2Radon Protection

No radon protective measures are necessary.

Section 4: Ground Workings	On-site	0-50m	51-250	251-500	501-1000
4.1 Historical Surface Ground Working Features from Small Scale Mapping	9	3	6	Not Searched	Not Searched
4.2 Historical Underground Workings from Small Scale Mapping	0	0	0	0	0
4.3 Current Ground Workings	0	0	0	0	1
Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.1 Historical Mining	0	0	0	0	0
5.2 Coal Mining	0	0	0	0	0
5.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	0
5.4 Non-Coal Mining*	0	0	0	0	0
5.5 Non-Coal Mining Cavities	0	0	0	0	0



				LOCATION IN	NTELLIGENCE
Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.6 Brine Extraction	0	0	0	0	0
5.7 Gypsum Extraction	0	0	0	0	0
5.8 Tin Mining	0	0	0	0	0
5.9 Clay Mining	0	0	0	0	0
Section 6: Natural Ground Subsidence	On-sit	te			
6.1 Shrink-Swell Clay	Low				
6.2 Landslides	Very Lo)W			
5.3 Ground Dissolution of Soluble Rocks Negligible					
6.4 Compressible Deposits	Moderate				
6.5 Collapsible Deposits	Very Low				
6.5 Running Sand	Low				
Section 7: Borehole Records	On-si	te	0-50m	5	1-250
7 BGS Recorded Boreholes	0		1		0
Section 8: Estimated Background Soil Chemistry	On-si	te	0-50m	5	1-250
8 Records of Background Soil Chemistry	22		4		0
Section 9: Railways and Tunnels	On-site	0-50m	51-250	250-500	
9.1 Tunnels	0	0	0	Not Searched	I
9.2 Historical Railway and Tunnel Features	0	0	0	Not Searched	I
9.3 Historical Railways	0	0	0	Not Searched	I
9.4 Active Railways	8	0	0	Not Searched	I
9.5 Railway Projects	0	0	0	0	



1:10,000 Scale Availability





Availability of 1:10,000 Scale Geology Mapping

The following information represents the availability of the key components of the 1:10,000 scale geological data.

ID	Distance	Artificial Coverage	Superficial Coverage	Bedrock Coverage	Mass Movement Coverage
1	0.0	Some deposits are mapped	Full	Full	No coverage
2	0.0	Some deposits are mapped	Full	Full	No coverage
3	0.0	Some deposits are mapped	Full	Full	No coverage
4	354.0	Some deposits are mapped	Full	Full	No coverage

Guidance: The 1:10,000 scale geological interpretation is the most detailed generally available from BGS and is the scale at which most geological surveying is carried out in the field. The database is presented as four types of geology (artificial, mass movement, superficial and bedrock), although not all themes are mapped or available on every map sheet. Therefore a coverage layer showing the availability of the four themes is presented above.

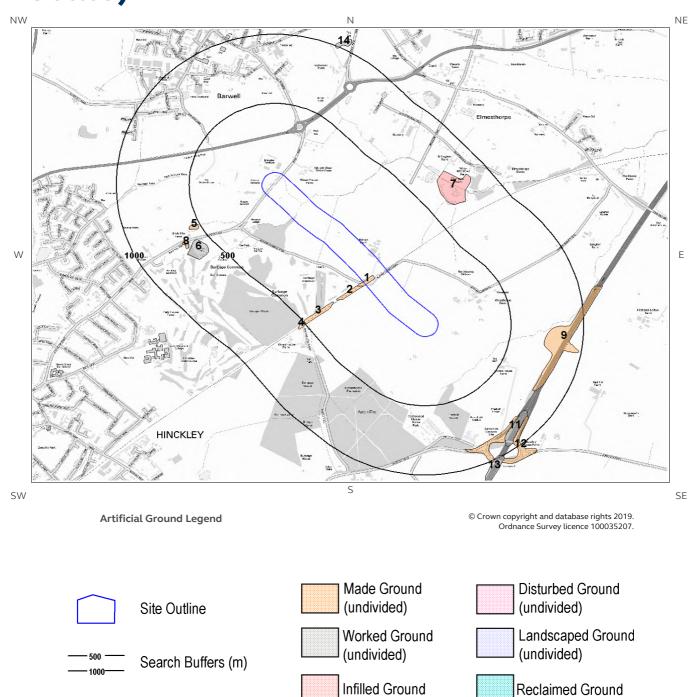
The definitions of coverage are as follows:

Geology	Full Coverage	Partial Coverage	No Coverage
Bedrock	The whole tile has been mapped	Some but not all the tile has been mapped	No coverage
Superficial	The whole tile has been mapped	Some but not all of the tile has been mapped	No coverage
Artificial	Some deposits are mapped on this tile	-	No deposits are mapped
Mass Movement	Some deposits are mapped on this tile	-	No coverage



1 Geology (1:10,000 scale).

1.1 Artificial Ground map (1:10,000 scale)





1. Geology 1:10,000 scale

1.1 Artificial Ground

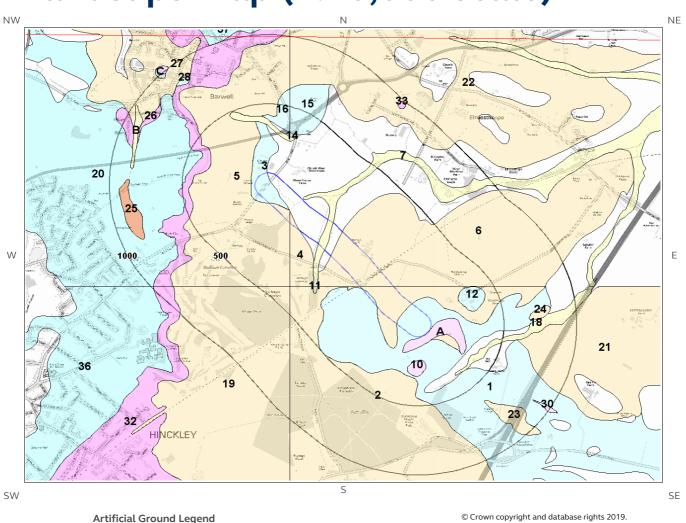
The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

Are there any records of Artificial/ Made Ground within 500m of the study site boundary at 1:10,000 scale? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	16.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	250.0	SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit



1.2 Superficial Deposits and Landslips map (1:10,000 scale)



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1.2 Superficial Deposits and Landslips

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping

1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale?

Distance (m)	Direction	LEX Code	Description	Rock Description
0.0	On Site	THT-DMTN	Thrussington Member - Diamicton	Diamicton
0.0	On Site	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
0.0	On Site	THT-DMTN	Thrussington Member - Diamicton	Diamicton
0.0	On Site	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
0.0	On Site	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
0.0	On Site	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
0.0	On Site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
0.0	On Site	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
52.0	SE	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
169.0	S	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
217.0	SW	ALV-XSWCV	Alluvium - Sand With Clay And Gravel	Sand With Clay And Gravel [unlithified Deposits Coding Scheme - Extended]
237.0	NE	THT-DMTN	Thrussington Member - Diamicton	Diamicton
261.0	N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
262.0	NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
318.0	N	THT-DMTN	Thrussington Member - Diamicton	Diamicton
320.0	N	THT-DMTN	Thrussington Member - Diamicton	Diamicton
332.0	W	WOSG-XSV	Wolston Sand And Gravel - Sand And Gravel	Sand And Gravel
336.0	SE	ALV-XSWCV	Alluvium - Sand With Clay And Gravel	Sand With Clay And Gravel [unlithified Deposits Coding Scheme - Extended]
354.0	SW	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
408.0	NW	ODT-DMTN	Oadby Member - Diamicton	Diamicton
	(m) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	(m) 0.0 On Site 20.0 SE 217.0 SE 217.0 SW 227.0 NE 227.0 NE 3261.0 N 320.0 N 332.0 W 3336.0 SE	(m) Direction (m	(m) Direction (EX Code Description) 0.0 On Site THT-DMTN Thrussington Member - Diamicton 0.0 On Site WOC-XCZ Wolston Clay - Clay And Silt 0.0 On Site WOC-XCZS Wolston Clay - Clay, Silt And Sand 0.0 On Site WOC-XCZS Wolston Clay - Clay, Silt And Sand 0.0 On Site WOC-XCZS Wolston Clay - Clay, Silt And Sand 0.0 On Site WOC-XCZS Wolston Clay - Clay, Silt And Sand 0.0 On Site WOC-XCZS Wolston Clay - Clay, Silt And Sand 0.0 On Site GFDU-XCZS Wolston Clay - Clay, Silt And Sand 0.0 On Site GFDU-XCZS Wolston Clay - Clay, Silt And Sand 0.0 On Site GFDU-XSV Glaciofluvial Deposits - Sand And Gravel 2. S2.0 SE WOC-XCZ Wolston Clay - Clay And Silt 0. 169.0 S GFDU-XSV Glaciofluvial Deposits - Sand And Gravel 2. 237.0 NE THT-DMTN Thrussington Member - Diamicton 2. 237.0 NE THT-DMTN Thrussington Member - Diamicton 3. 261.0 N ALV-XCZSV Alluvium - Clay, Silt, Sand And Gravel 4. 262.0 NE ALV-XCZSV Alluvium - Clay, Silt, Sand And Gravel 3. 318.0 N THT-DMTN Thrussington Member - Diamicton 3. 320.0 N THT-DMTN Thrussington Member - Diamicton 4. 332.0 W WOSG-XSV Wolston Sand And Gravel - Sand And Gravel 3. 336.0 SE ALV-XSWCV Alluvium - Sand With Clay And Gravel 4. 354.0 SW WOC-XCZ Wolston Clay - Clay And Silt



1.2.2 Landslip

Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale?

No

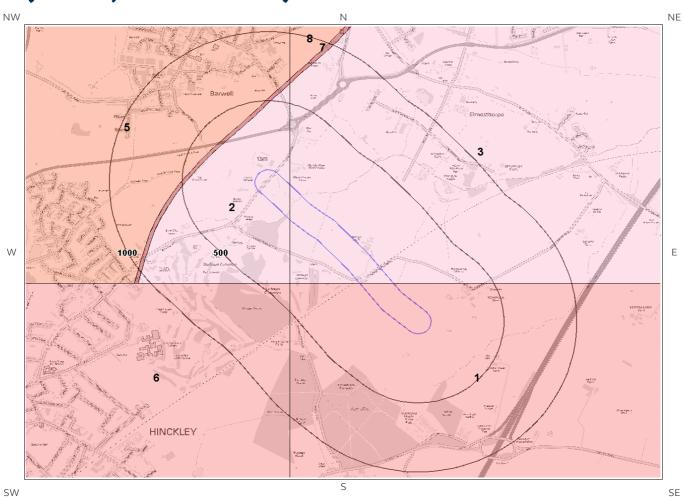
Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:10,000 scale

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

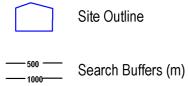


1.3 Bedrock and linear features map (1:10,000 scale)



Bedrock and linear features Legend

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1.3 Bedrock and linear features

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
1	0.0	On Site	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch
2	0.0	On Site	EDW-MDST	Edwalton Member - Mudstone	Carnian Age
3	0.0	On Site	EDW-MDST	Edwalton Member - Mudstone	Carnian Age
4	325.0	NW	COT-SDST	Cotgrave Sandstone Member - Sandstone	Carnian Age
5	350.0	NW	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
6	354.0	SW	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch

1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale?

No

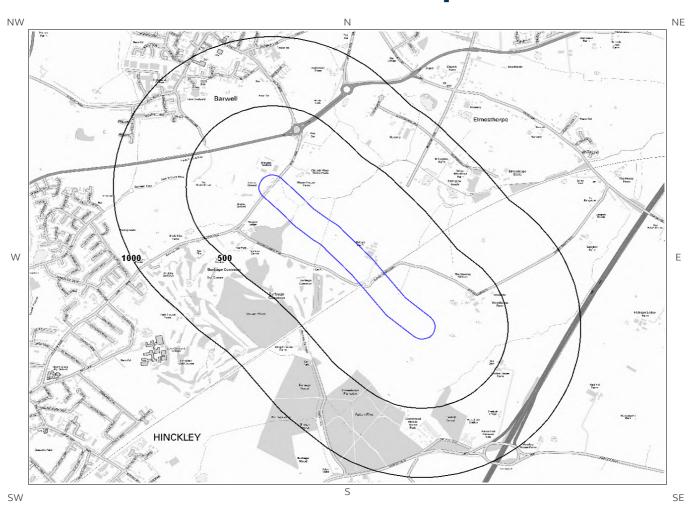
Database searched and no data found at this scale.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

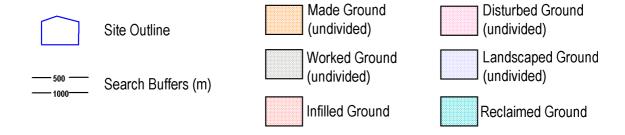
This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.



2 Geology 1:50,000 Scale2.1 Artificial Ground map



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2. Geology 1:50,000 scale

2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 169

2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary?

No

Database searched and no data found.

2.1.2 Permeability of Artificial Ground

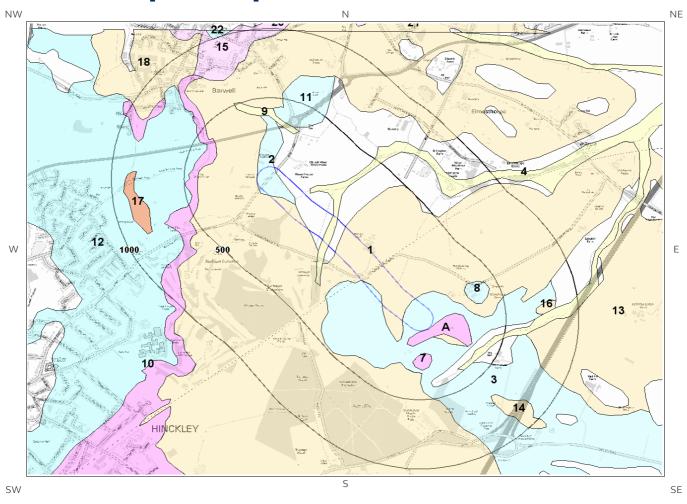
Are there any records relating to permeability of artificial ground within the study site boundary?

No

Database searched and no data found.



2.2 Superficial Deposits and Landslips map (1:50,000 scale)



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2.2 Superficial Deposits and Landslips

2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
2	0.0	On Site	THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
3	0.0	On Site	THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
4	0.0	On Site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
5A	0.0	S	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
6A	69.0	SE	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
7	163.0	S	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
8	270.0	NE	THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
9	274.0	NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
10	313.0	NW	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
11	320.0	N	THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
12	394.0	NW	ODT-DMTN	OADBY MEMBER	DIAMICTON

2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? Yes

Distance (m)	Distance (m) Direction Flow Type		Maximum Permeability	Minimum Permeability	
0.0	On Site	Mixed	Low	Very Low	
0.0	On Site	Mixed	High	Low	
0.0	On Site	Intergranular	High	Very Low	
0.0	On Site	Mixed	Low	Very Low	
0.0	On Site	Mixed	High	Low	
0.0	On Site	Mixed	Low	Very Low	
0.0	On Site	Mixed	High	Low	
0.0	On Site	Mixed	Low	Very Low	
0.0	S	Intergranular	Very High	High	



2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary?

No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2.2.4 Landslip Permeability

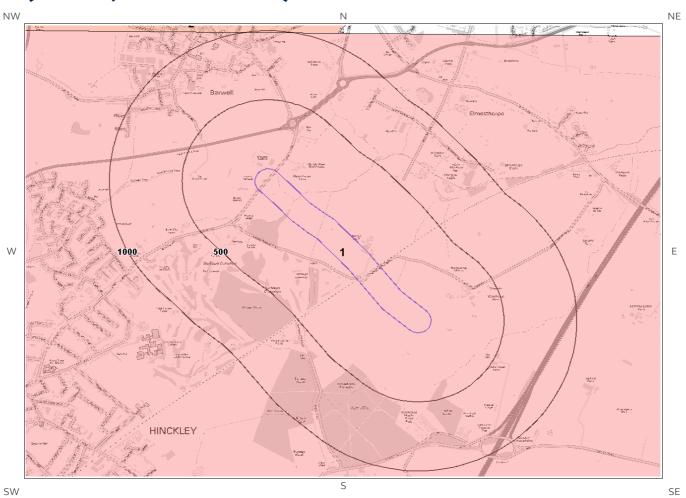
Are there any records relating to permeability of landslips within the study site boundary?

No

Database searched and no data found.



2.3 Bedrock and linear features map (1:50,000 scale)



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2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 169

2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

ID	Distance	Direction	LEX Code	Rock Description	Rock Age
1	0.0	On Site	MMG-MDST	MERCIA MUDSTONE GROUP - MUDSTONE	-

2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary?

Yes

Distanc e	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Fracture	Low	Low
0.0	On Site	Fracture	Low	Low
0.0	On Site	Fracture	Low	Low

2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary?

No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.



3 Radon Data

3.1 Radon Affected Areas

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 not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

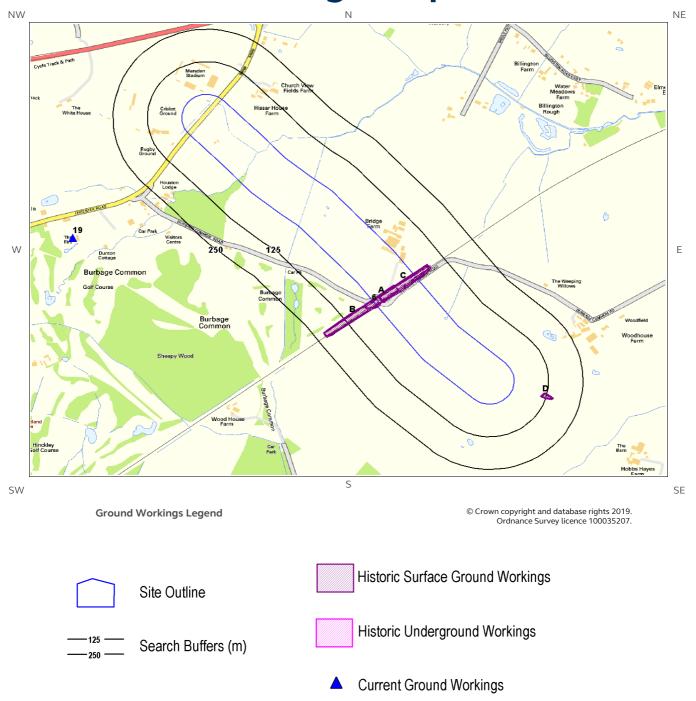
The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

3.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.



4 Ground Workings map





4 Ground Workings

4.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Use	Date
1B	0.0	On Site	445379 294965	Cuttings	1886
2C	0.0	On Site	445569 295097	Cuttings	1886
3A	0.0	On Site	445514 295057	Cuttings	1978
4A	0.0	On Site	445471 295025	Cuttings	1886
5B	0.0	On Site	445385 294966	Cuttings	1904
6	0.0	On Site	445455 295015	Cuttings	1950
7A	0.0	On Site	445514 295057	Cuttings	1968
8C	0.0	On Site	445572 295089	Cuttings	1950
9C	0.0	On Site	445574 295095	Cuttings	1904
10B	34.0	SW	445359 294946	Cuttings	1968
11B	34.0	SW	445359 294946	Cuttings	1950
12B	34.0	SW	445359 294946	Cuttings	1978
13D	105.0	E	446085 294663	Pond	1886
14D	110.0	E	446090 294660	Pond	1886
15D	111.0	Е	446091 294663	Pond	1978
16D	111.0	E	446091 294663	Pond	1950
17D	111.0	Е	446091 294663	Pond	1968
18D	112.0	Е	446092 294661	Pond	1904



4.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary?

No

Database searched and no data found.

4.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary?

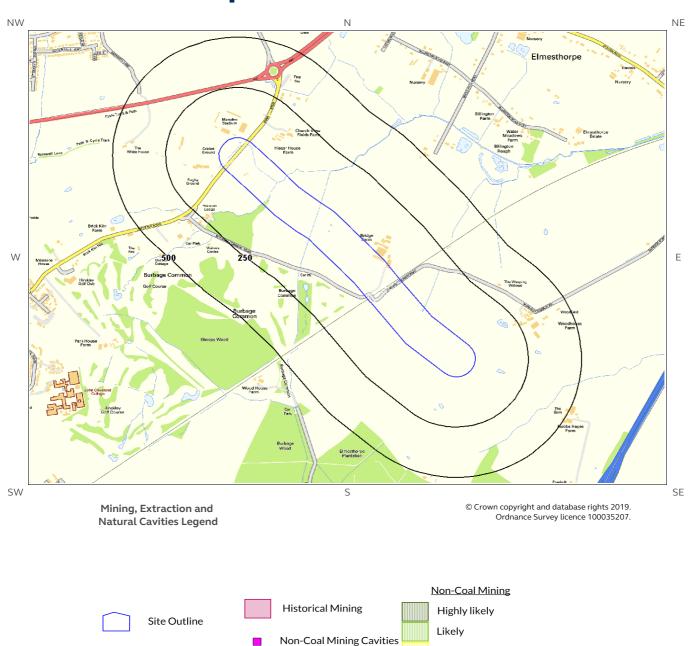
Yes

The following Current Ground Workings information is provided by British Geological Survey:

ID	Distanc e (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
19	582.0	SW	444365 295268	Clay & Shale	Outwood Brickyard	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased



5 Mining, Extraction & Natural Cavities map



Natural Cavities

Natural Cavities (polygon data)

(point data)

Unlikely

Rare

Highly unlikely

Report Reference: GSTEST-6054105 Client Reference: POP029368_site_1

Search Buffers (m)



5 Mining, Extraction & Natural Cavities

5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.

5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.

5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary?

No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.



5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled "Review of mining instability in Great Britain, 1990" PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary?

No

Database searched and no data found.

5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary?

No

Database searched and no data found.

5.7 Brine Extraction

This data provides information from the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary?

No

Database searched and no data found.

5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary?

No

Database searched and no data found.

5.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level..

Are there any Tin Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.



5.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

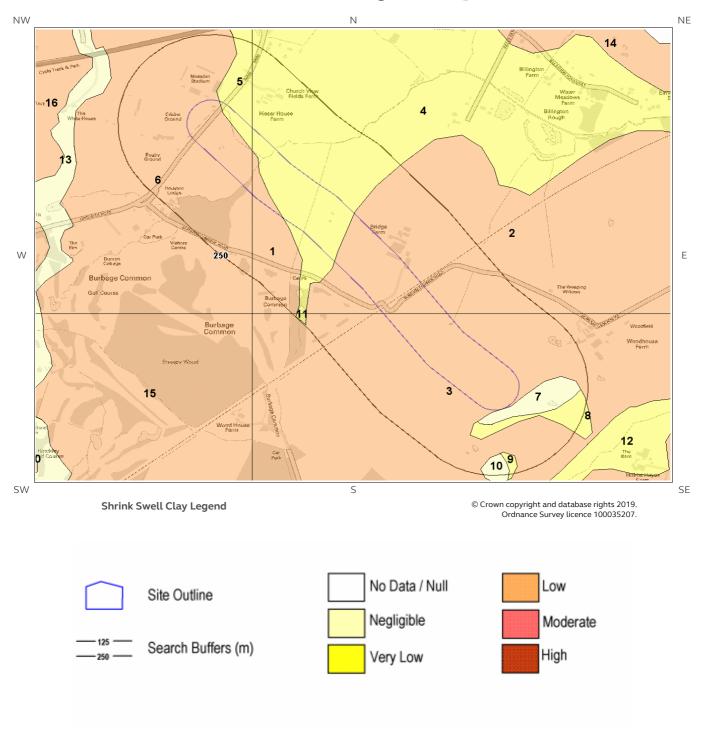
Are there any Clay Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.

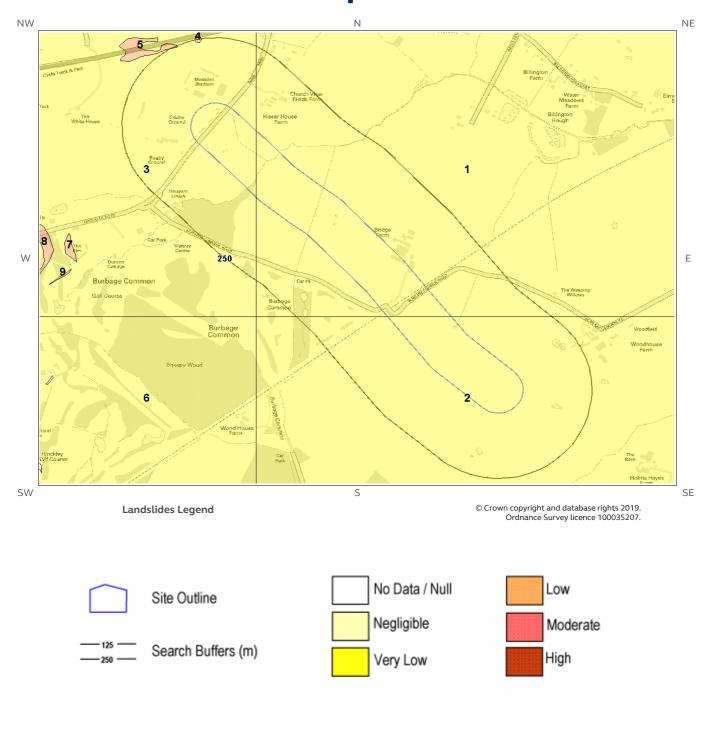


6 Natural Ground Subsidence6.1 Shrink-Swell Clay map



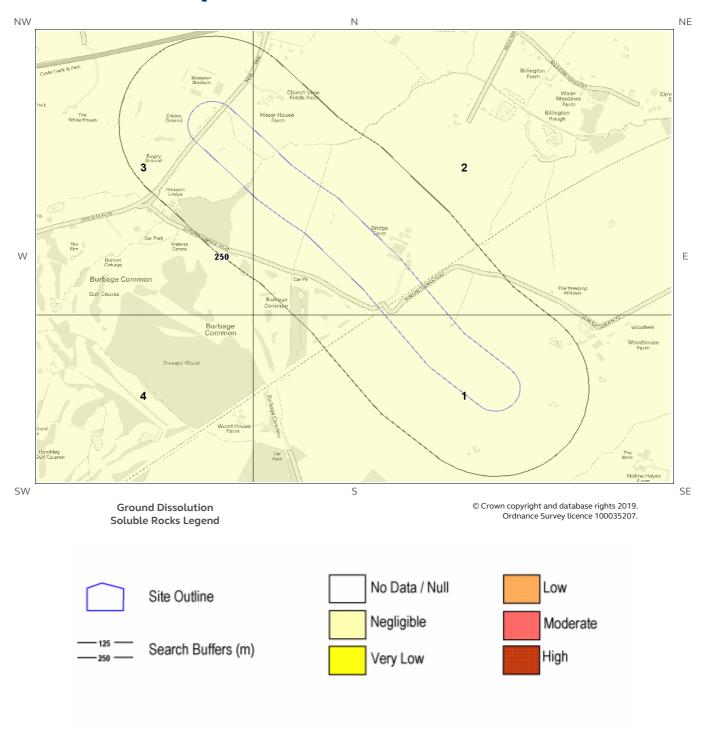


6.2 Landslides map



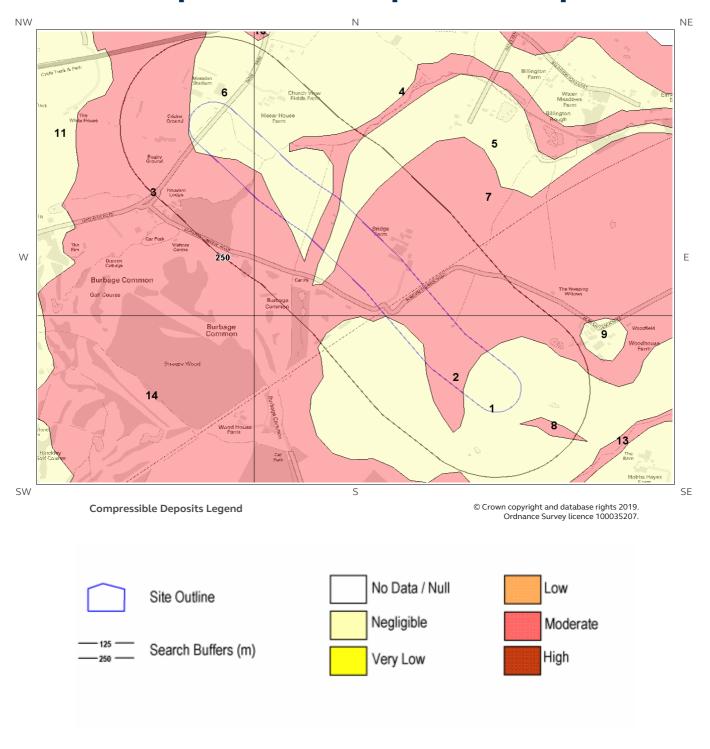


6.3 Ground Dissolution of Soluble Rocks map



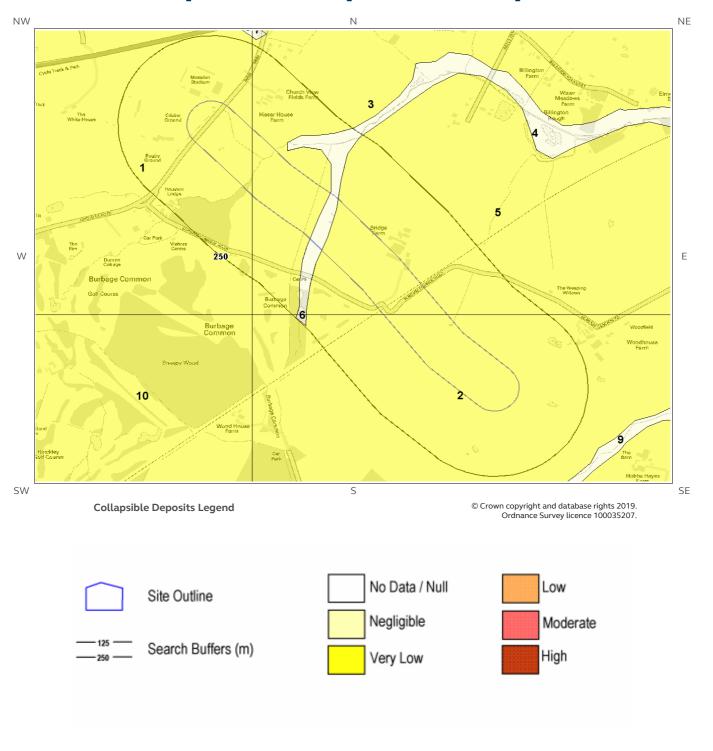


6.4 Compressible Deposits map



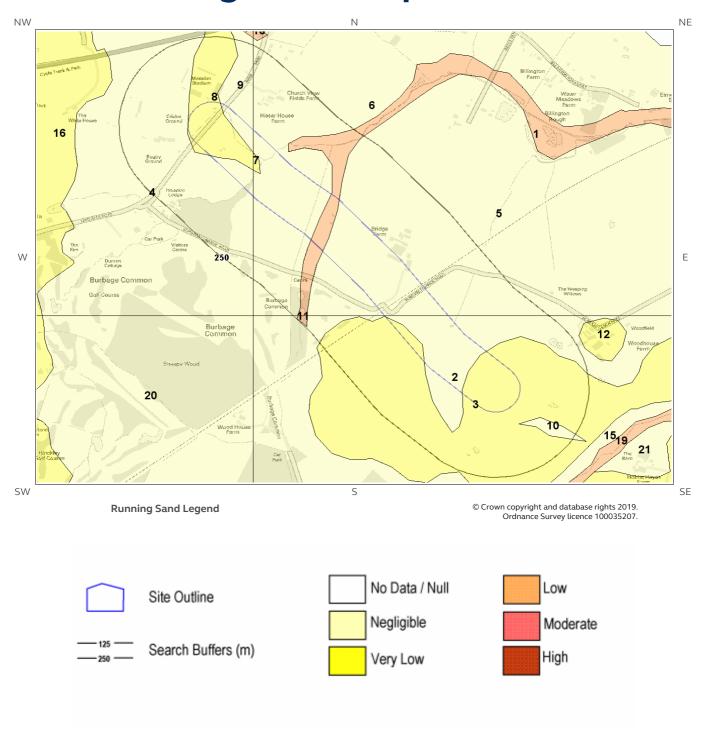


6.5 Collapsible Deposits map





6.6 Running Sand map





6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site** boundary? Moderate

6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Low	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.
2	0.0	On Site	Low	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.
3	0.0	On Site	Low	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.

^{*} This includes an automatically generated 50m buffer zone around the site



ID	Distance (m)	Direction	Hazard Rating	Details
4	0.0	On Site	Very Low	Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.
5	0.0	On Site	Very Low	Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.
6	0.0	On Site	Low	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.
7	0.0	S	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
8	41.0	S	Very Low	Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

6.2 Landslides

The following Landslides information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
2	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.



ID	Distance (m)	Direction	Hazard Rating	Details
3	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.
2	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.
3	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
2	0.0	On Site	Moderate	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. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
3	0.0	On Site	Moderate	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. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.



ID	Distance (m)	Direction	Hazard Rating	Details
4	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
5	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
6	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
7	0.0	On Site	Moderate	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. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.

6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	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.
2	0.0	On Site	Very Low	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.
3	0.0	On Site	Very Low	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.
4	0.0	On Site	No indicators for collapsible deposits identified. No actions requir problems due to collapsible deposits. No special ground investigation increased construction costs or increased financial risk due to potential with collapsible deposits.	
5	0.0	On Site	Very Low	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.



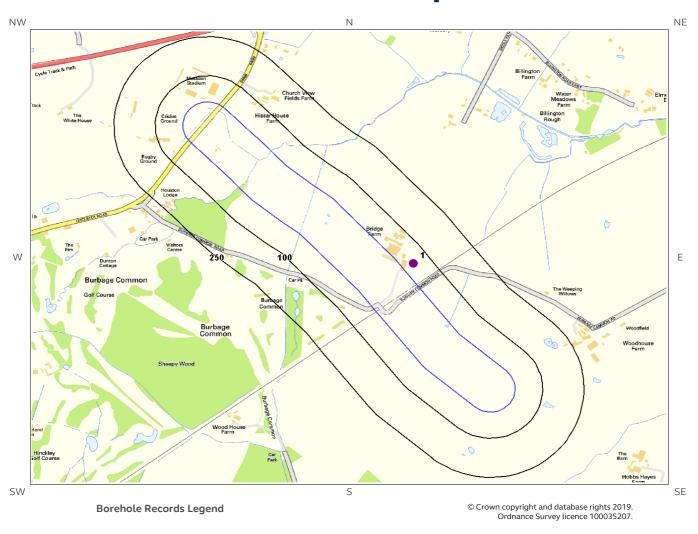
6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.
2	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
3	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
4	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
5	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
6	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
7	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
8	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
9	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.



7 Borehole Records map







7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary:

1

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1	41.0	NE	445600 295200	SP49NE125	110	BRIDGE FARM

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1: scans.bgs.ac.uk/sobi_scans/boreholes/18725140



8 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary:

26

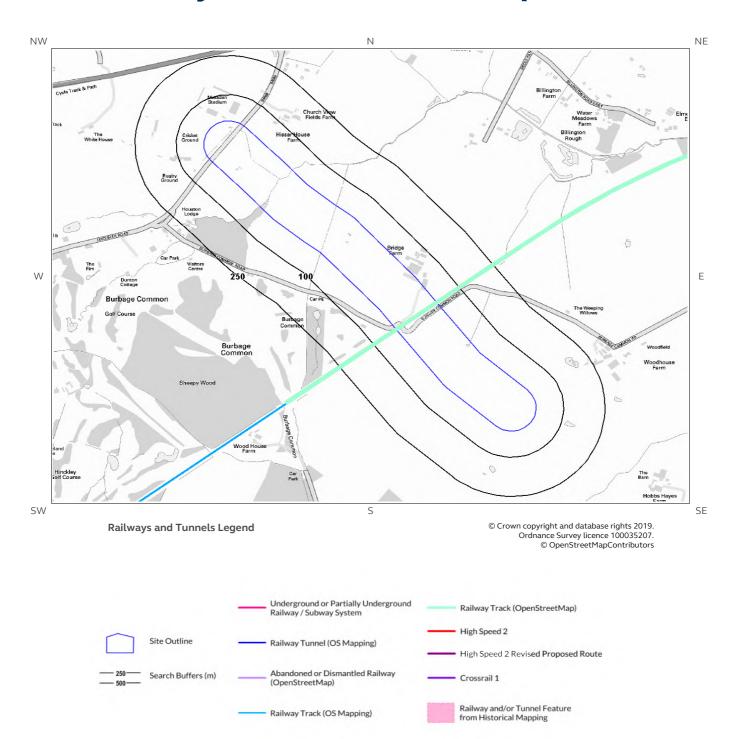
For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	<15 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	<15 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	S	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
28.0	NE	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
30.0	Е	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
34.0	Е	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg
47.0	NE	RuralSoil	<15 mg/kg	<1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg	<100 mg/kg

^{*}As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.



9 Railways and Tunnels map





9 Railways and Tunnels

9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary?

No

Have any underground railway lines been identified within 250m of the study site boundary?

No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary?

Nο

Have any other railway tunnels been identified within 250m of the site boundary?

No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary?

No

Have any historical railway or tunnel features been identified within 250m of the study site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

Report Reference: GSTEST-6054105 Client Reference: POP029368_site_1

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9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary?

No

Have any historical railway lines been identified within 250m of the study site boundary?

No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above Any records that have been identified are represented on the Railways and Tunnels map.

9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary?

Yes

Have any active railway lines been identified within 250m of the study site boundary?

Yes

Distance (m)	Direction	Name	Туре
0	On Site	Birmingham to Peterborough Line	rail
0	On Site	Birmingham to Peterborough Line	rail
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Birmingham to Peterborough Line	rail
0	On Site	Birmingham to Peterborough Line	rail

Multiple sections of the same track may be listed in the detail above Any records that have been identified are represented on the Railways and Tunnels map.

9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1.

Is the study site within 5km of the route of the High Speed 2 rail project?

No

Is the study site within 500m of the route of the Crossrail 1 rail project?

No

Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a **Groundsure HS2** and **Crossrail 1 Report**.

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.



Contact Details

Groundsure Helpline Telephone: 08444 159 000 info@groundsure.com



LOCATION INTELLIGENCE

Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

British

British Geological Survey Enquiries

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Email:enquiries@bgs.ac.uk Web:www.bgs.ac.uk

BGS Geological Hazards Reports and general geological enquiries



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The Coal Authority

200 Lichfield Lane Mansfield Notts NG18 4RG Tel: 0345 7626 848 DX 716176 Mansfield 5 www.coal.gov.uk



Public Health England

Public information access office Public Health England, Wellington House 133-155 Waterloo Road, London, SE1 8UG

https://www.gov.uk/government/organisations/public-healthengland

Email: enquiries@phe.gov.uk Main switchboard: 020 7654 8000



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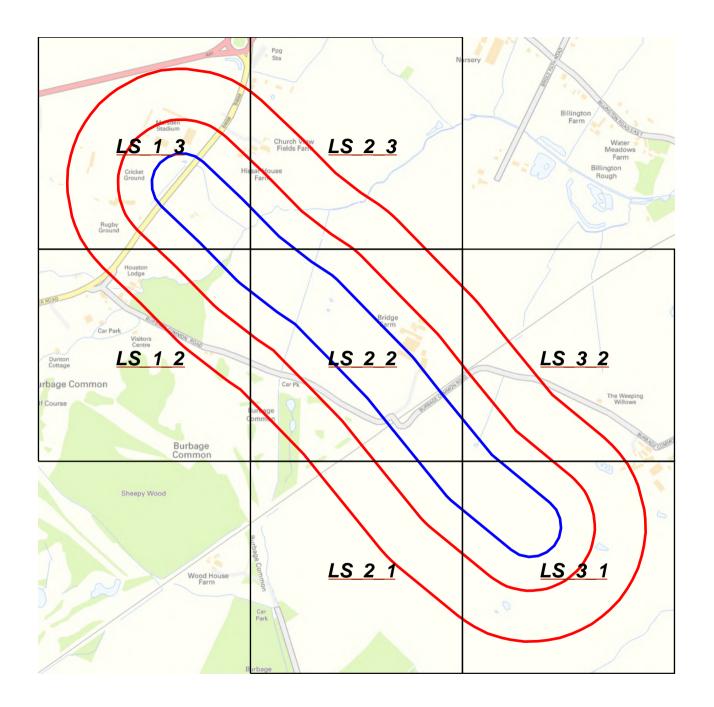
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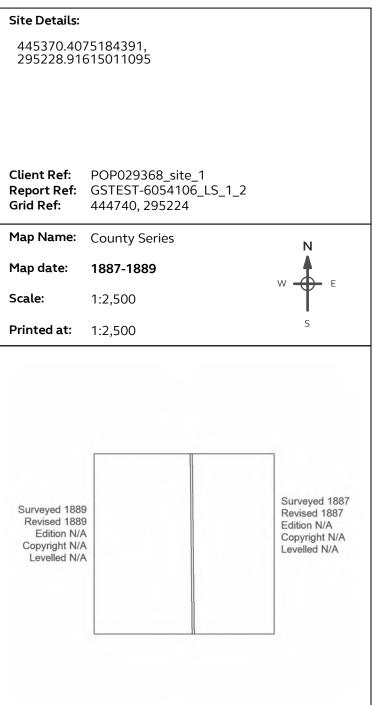




1:2500 Scale Grid Index





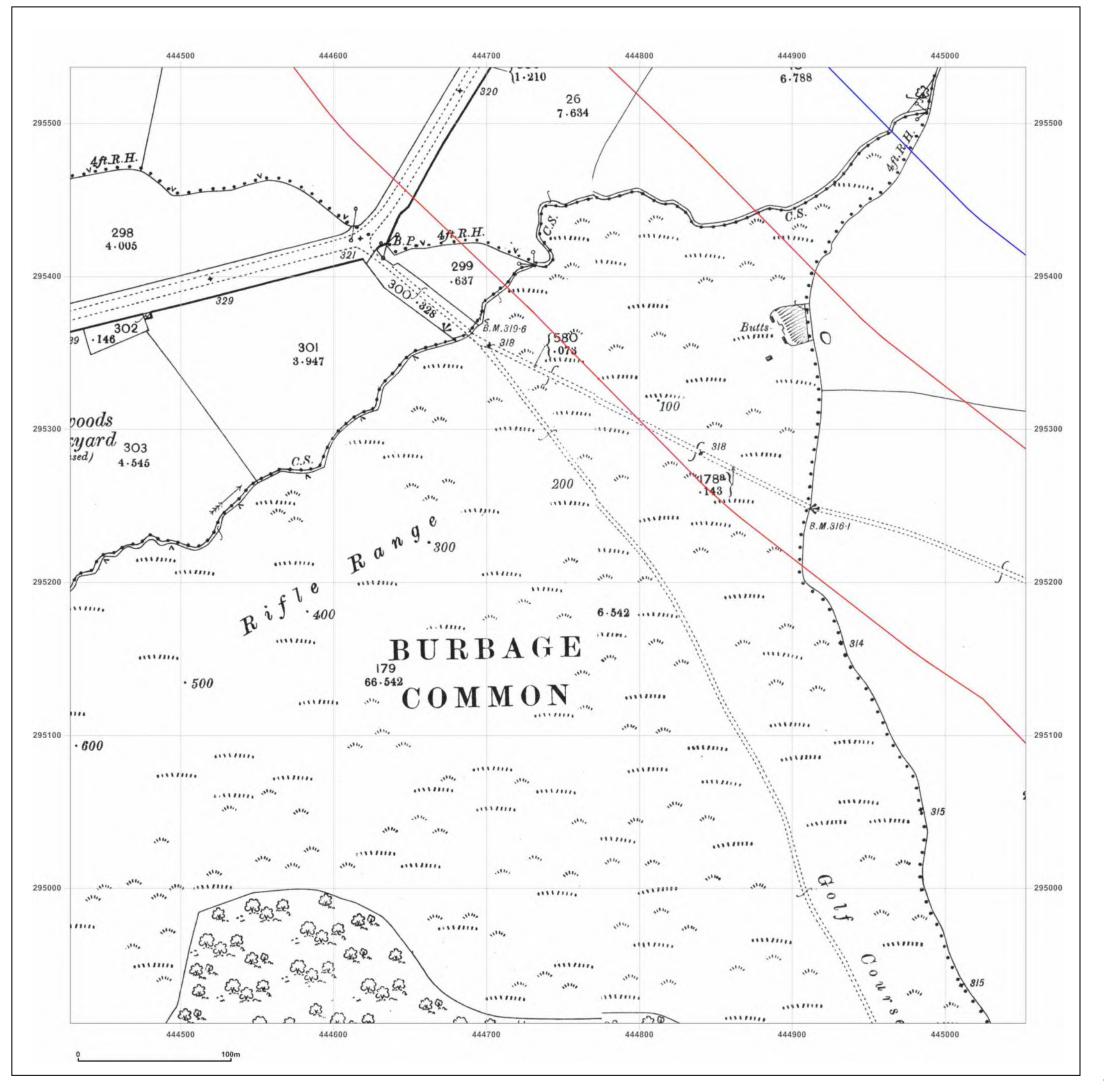




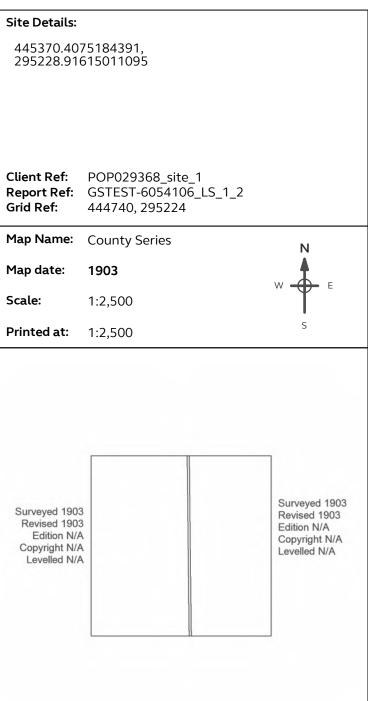
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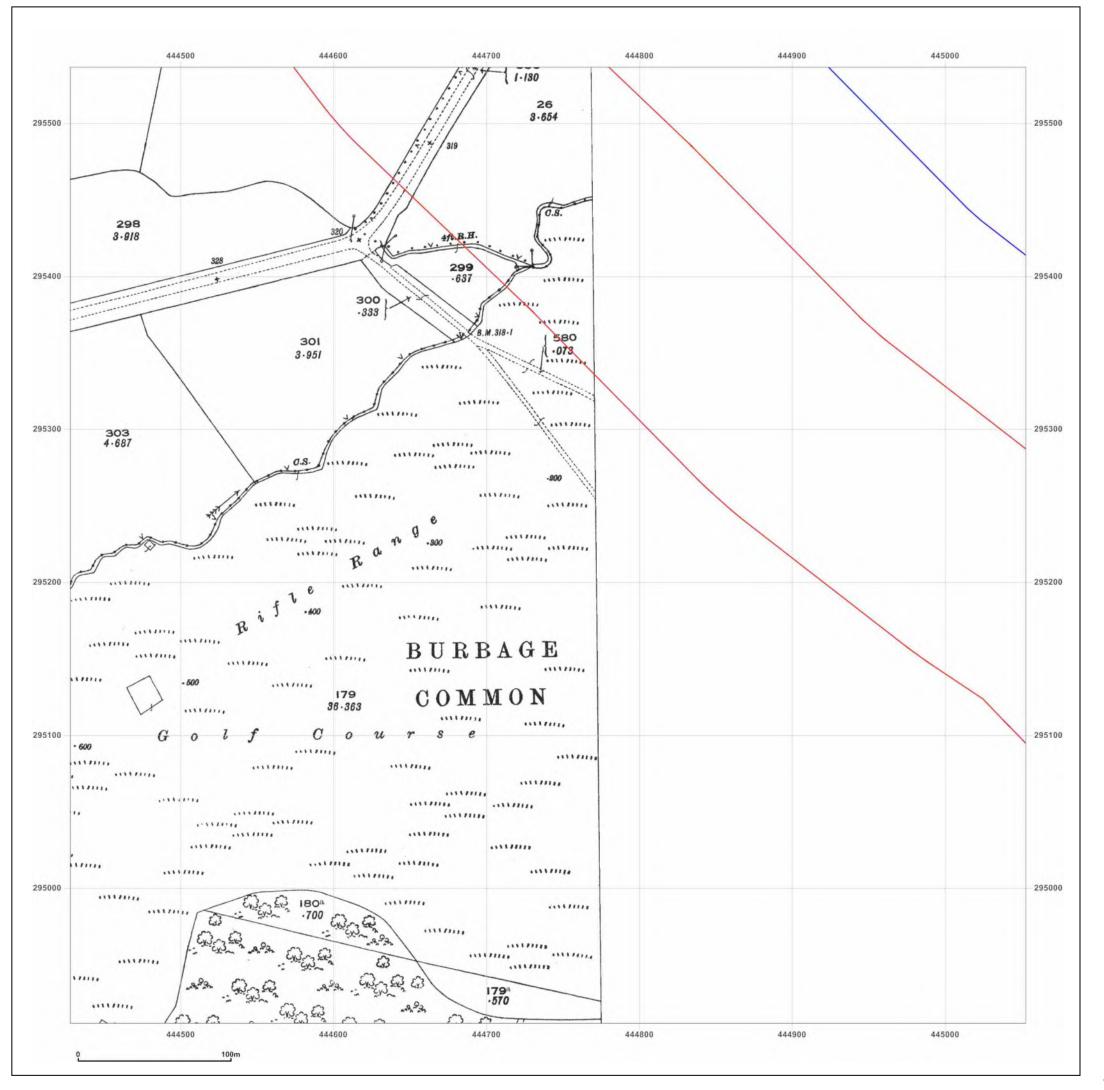




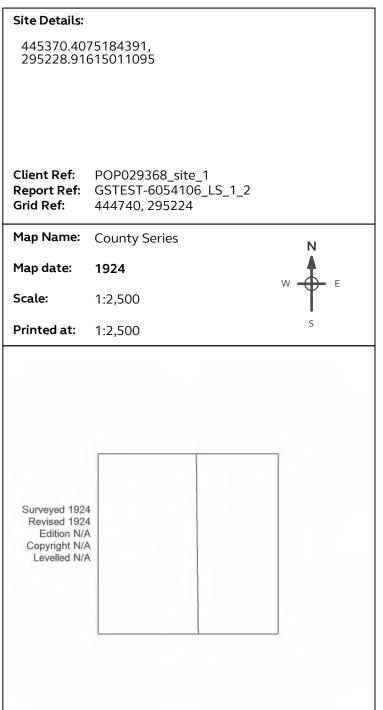
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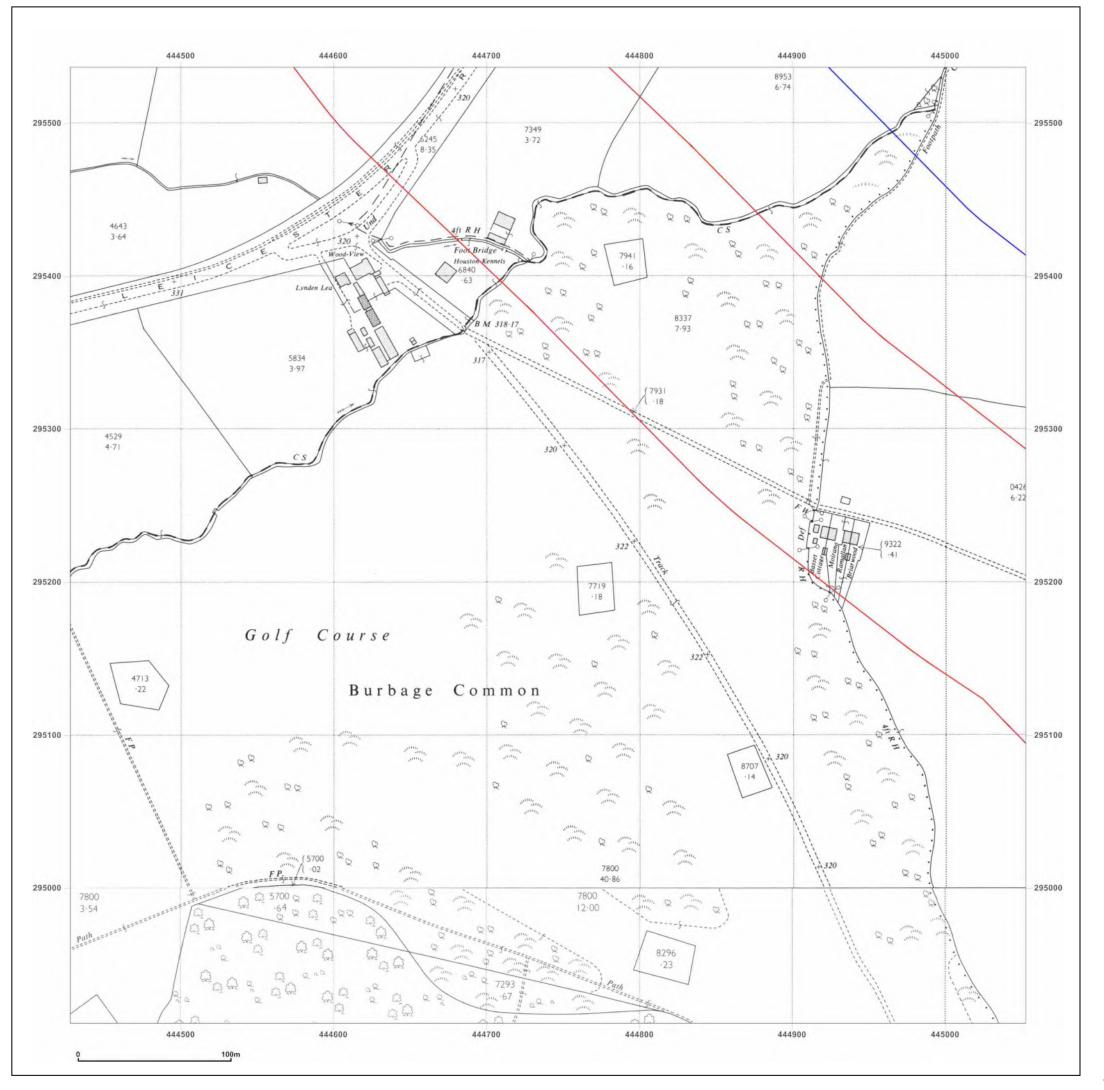




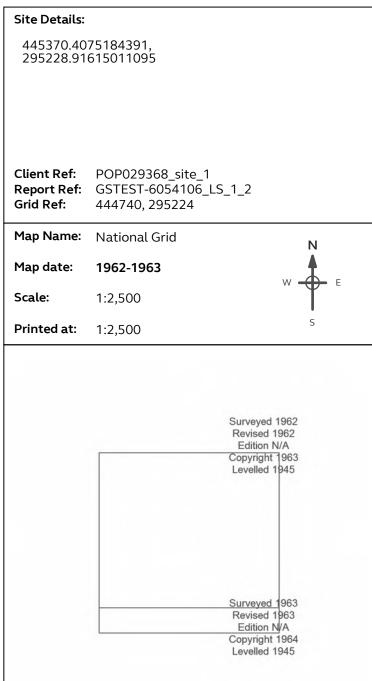
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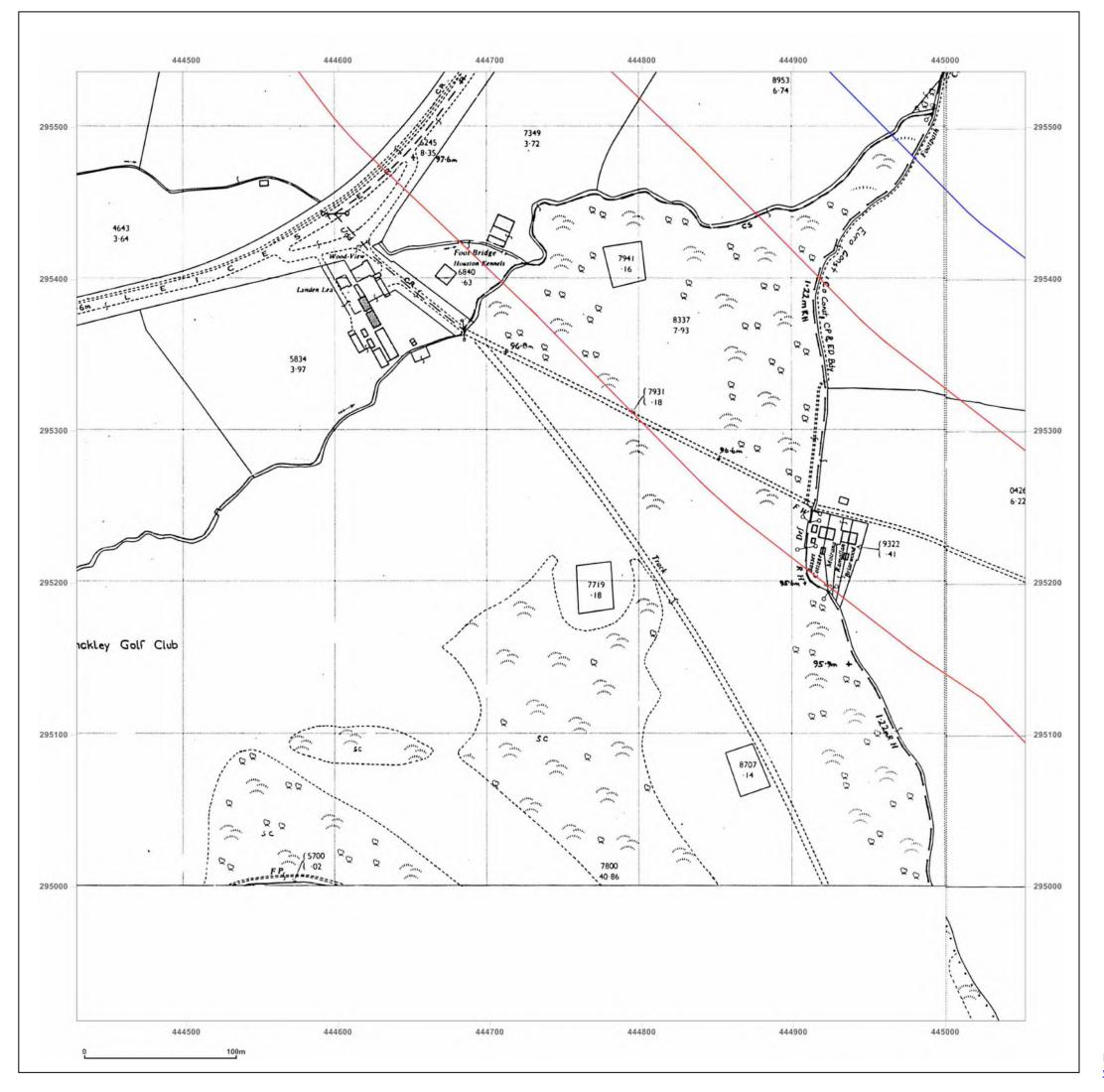




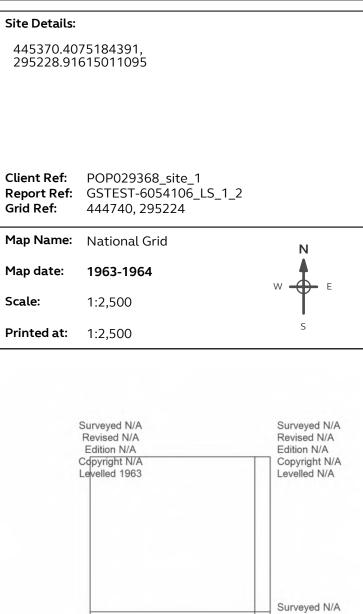
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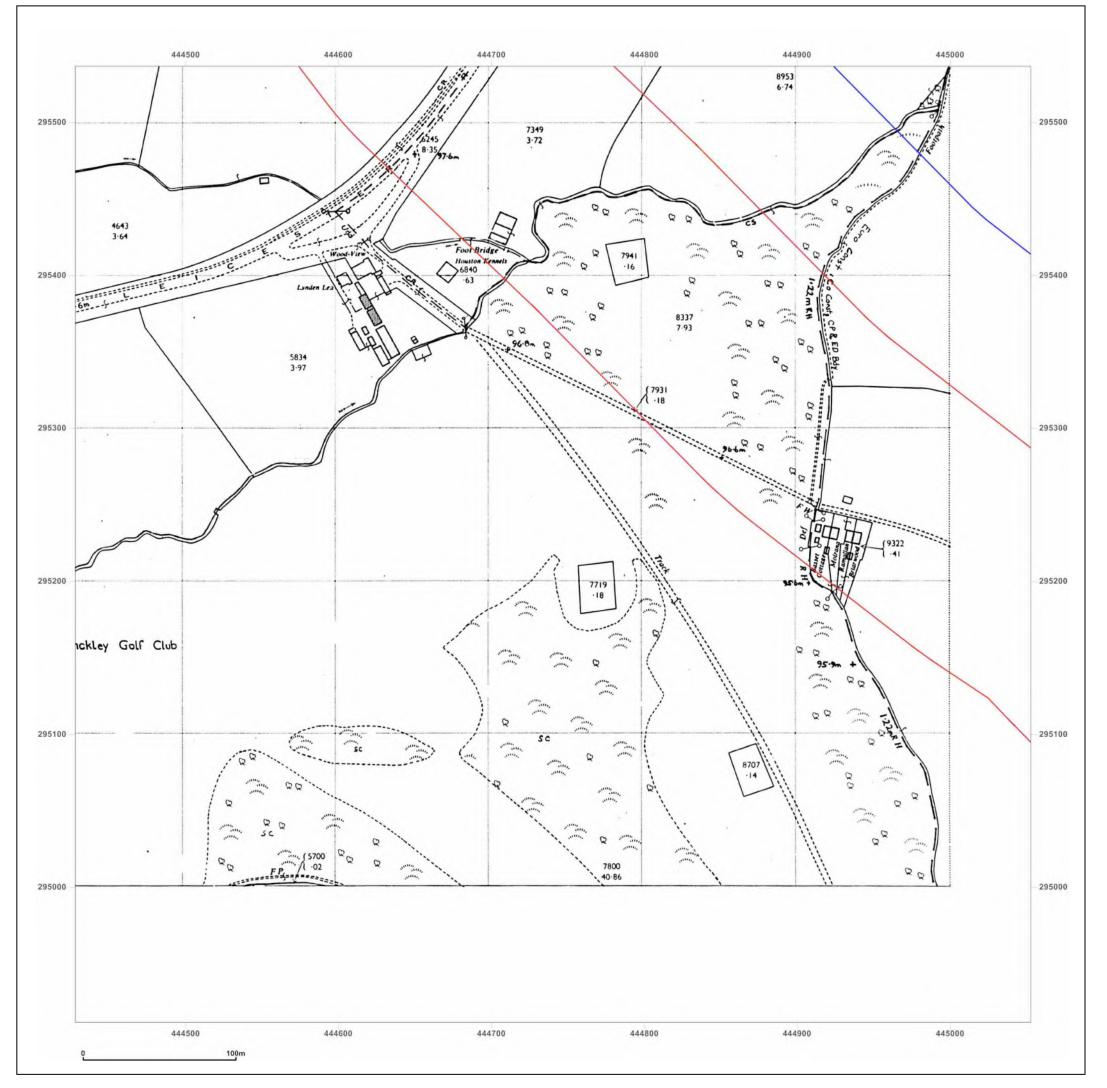


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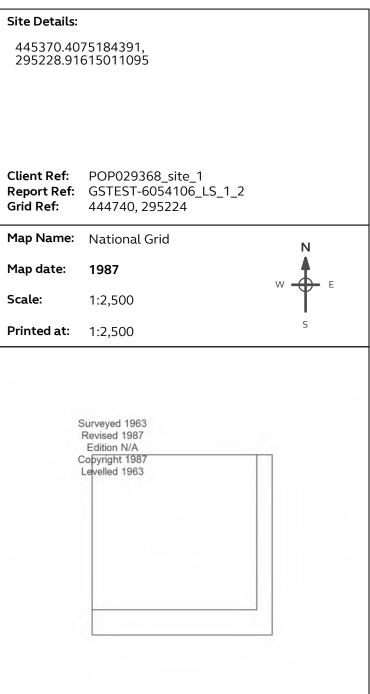
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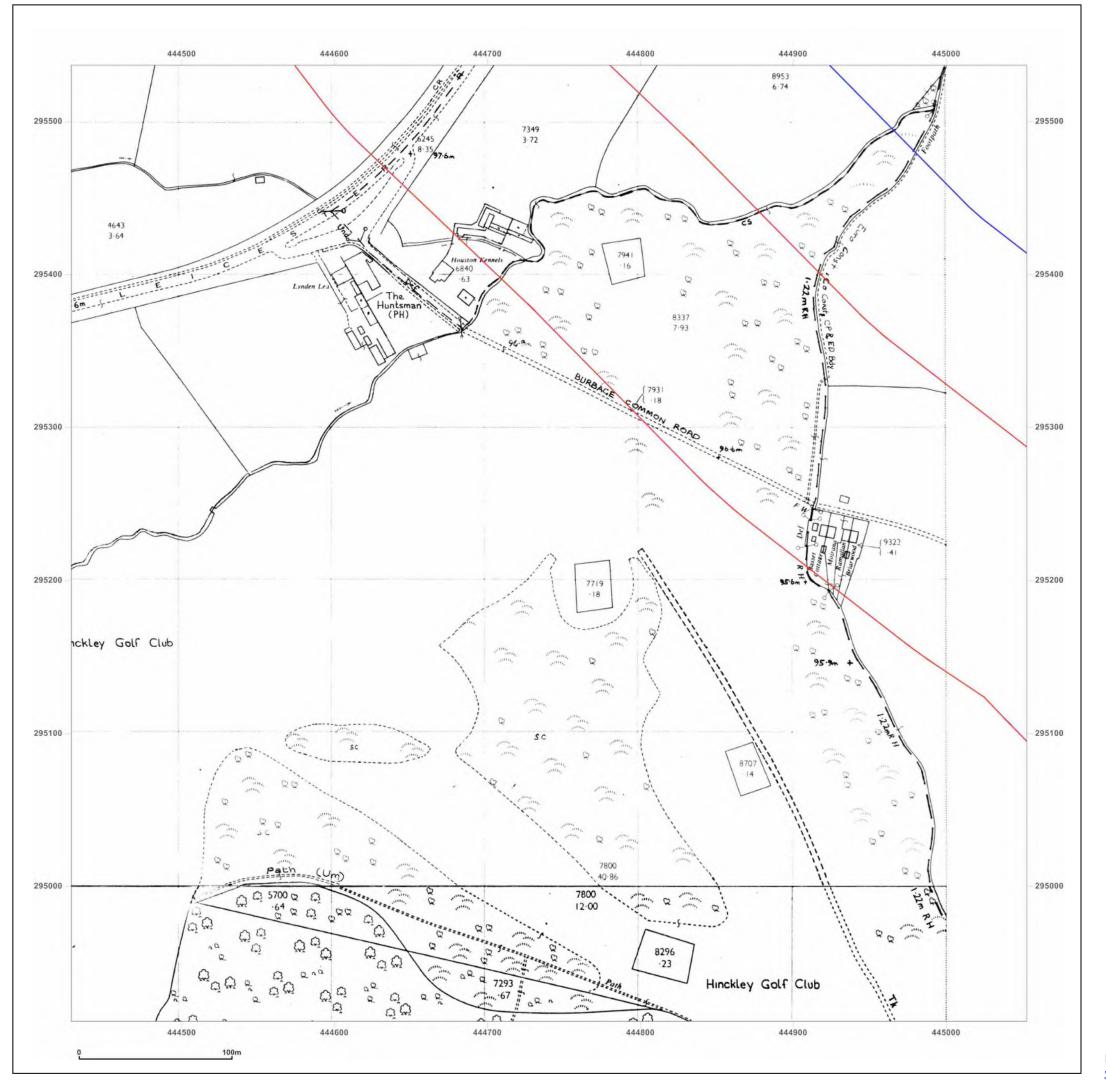




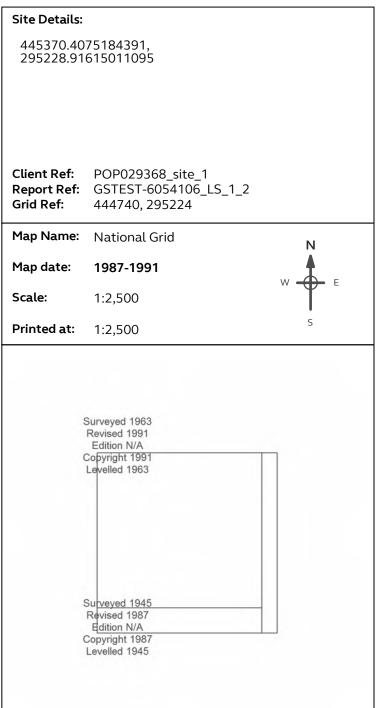
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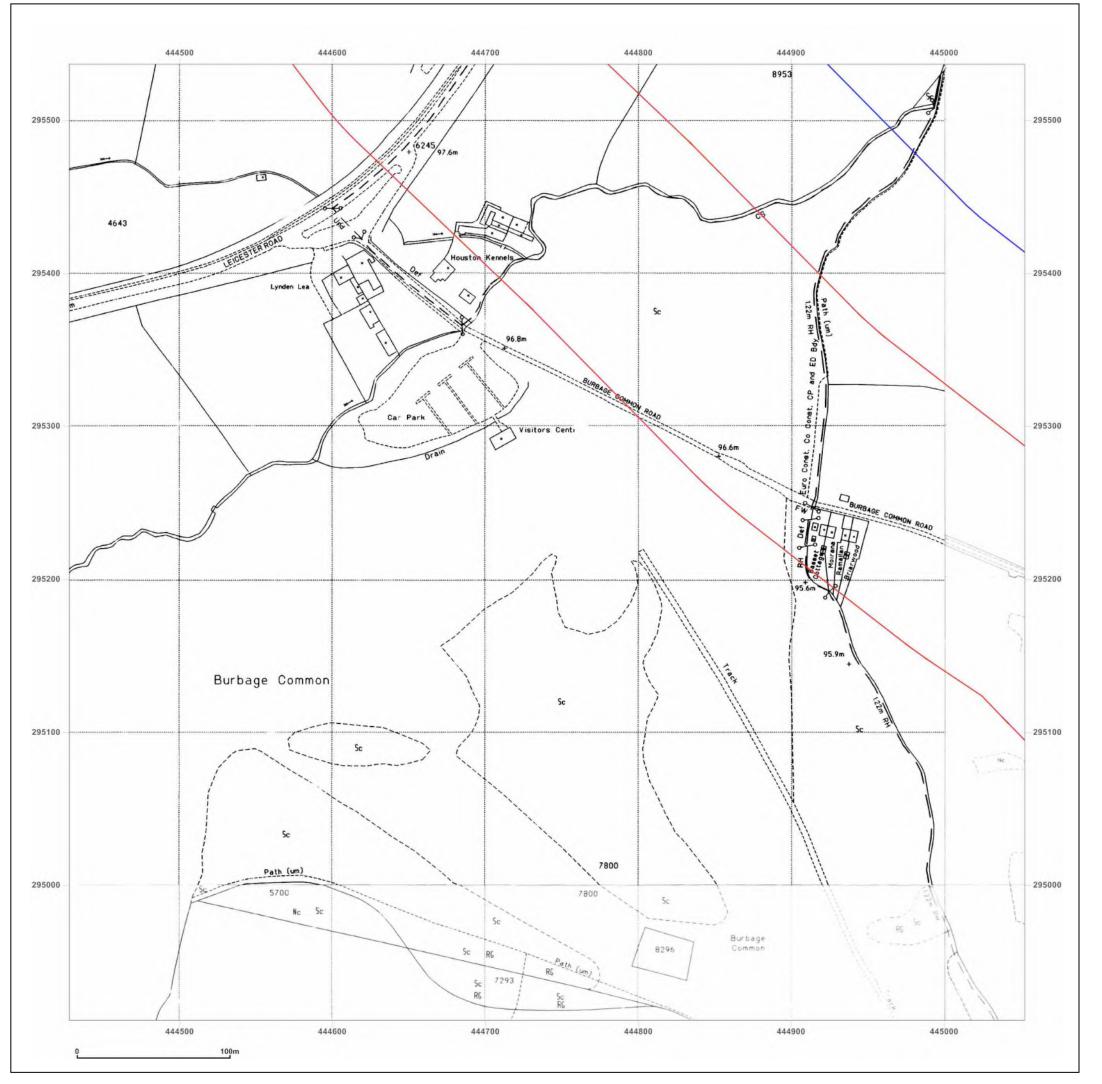




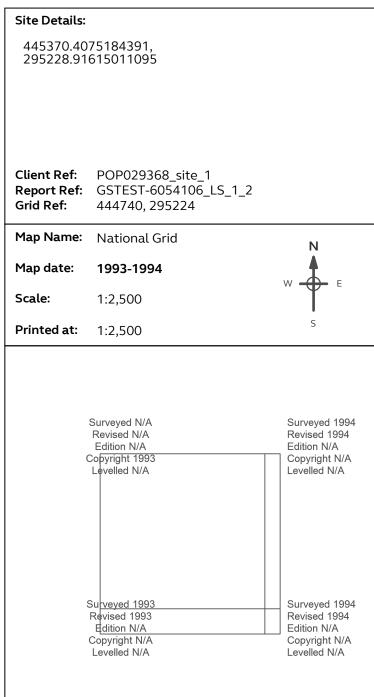
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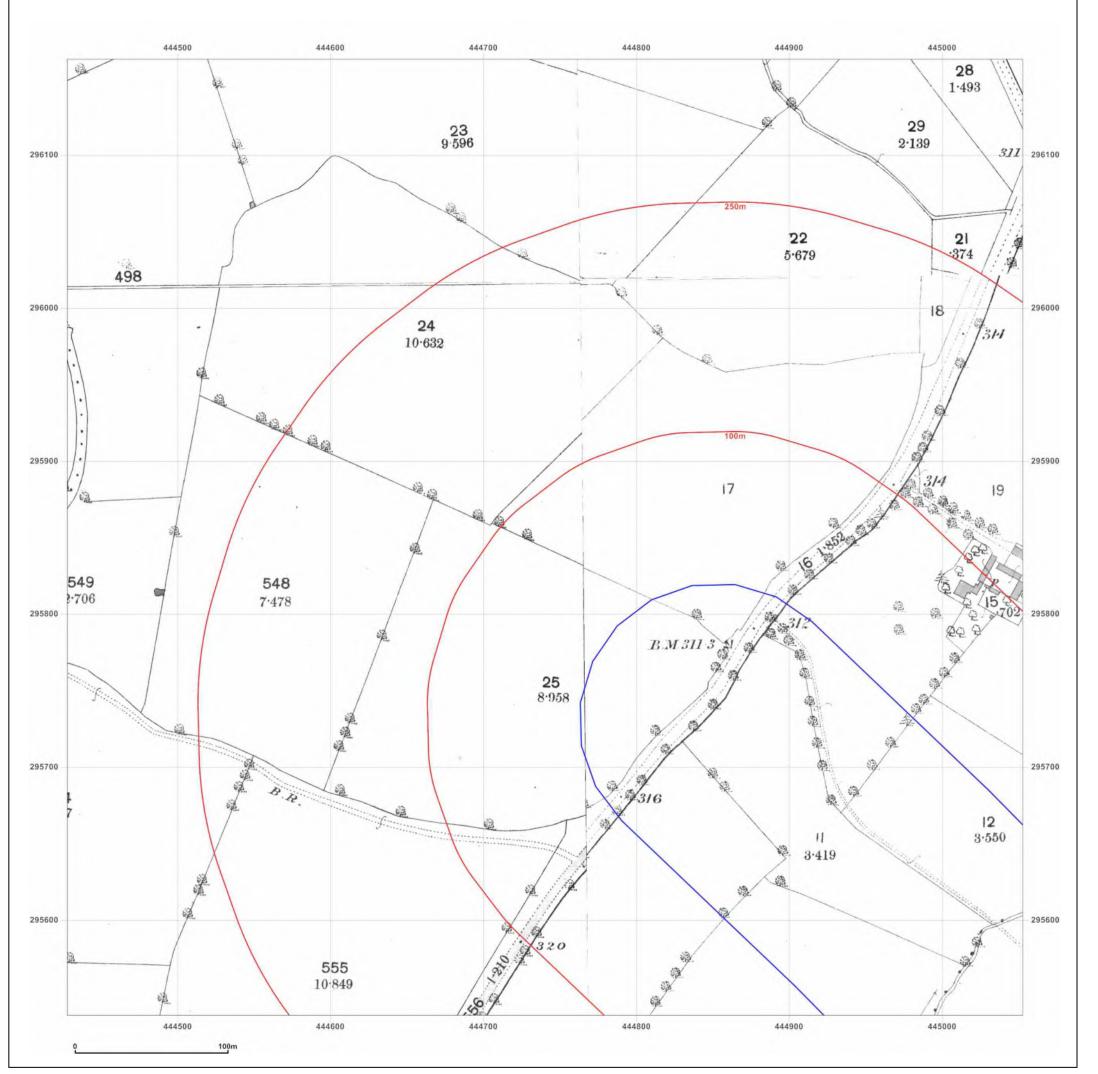




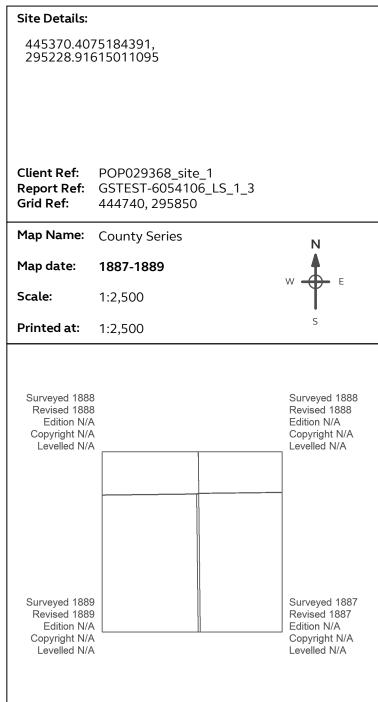
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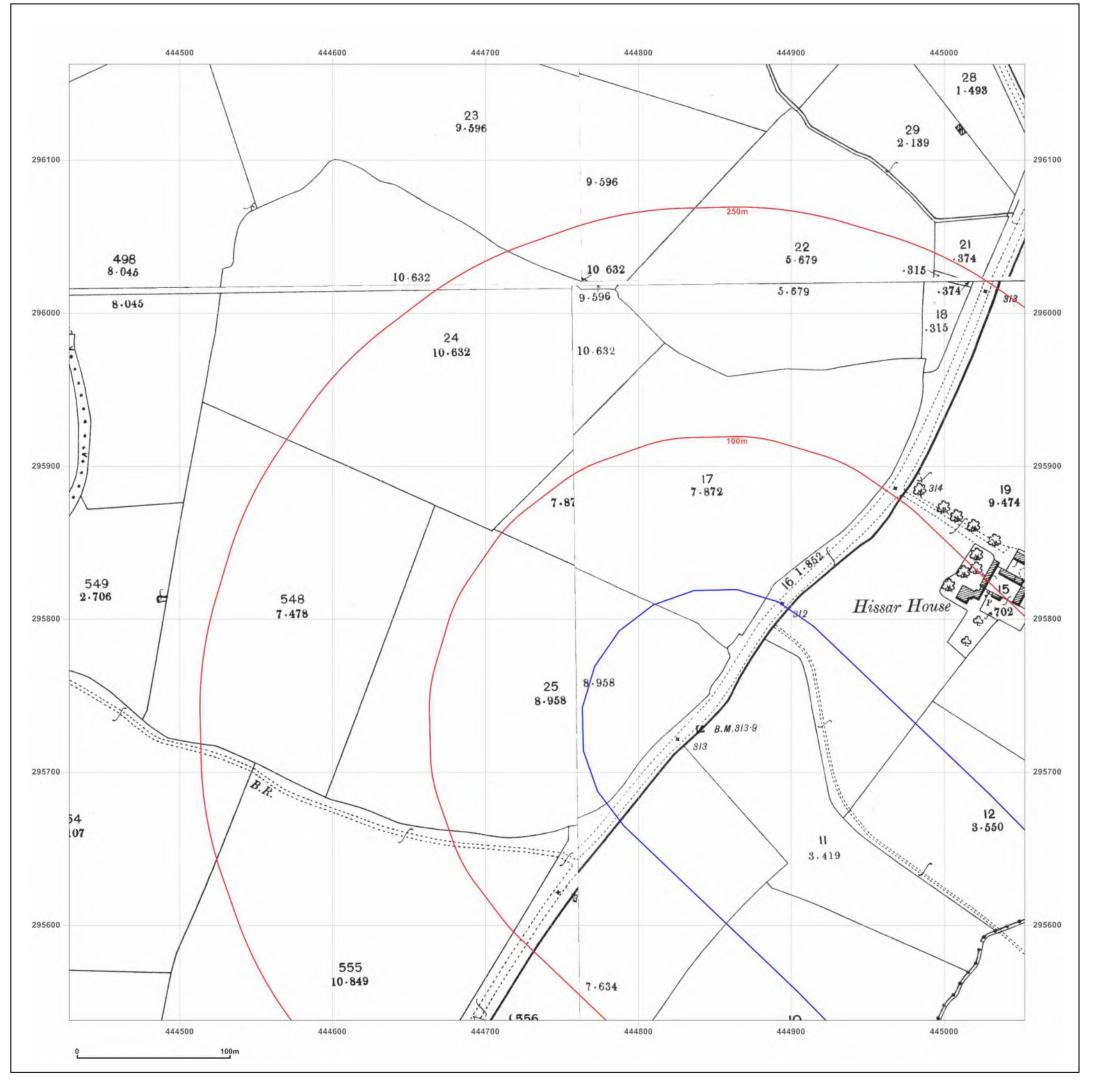




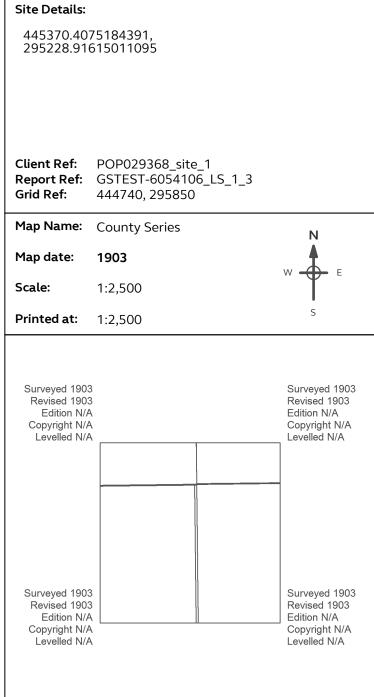
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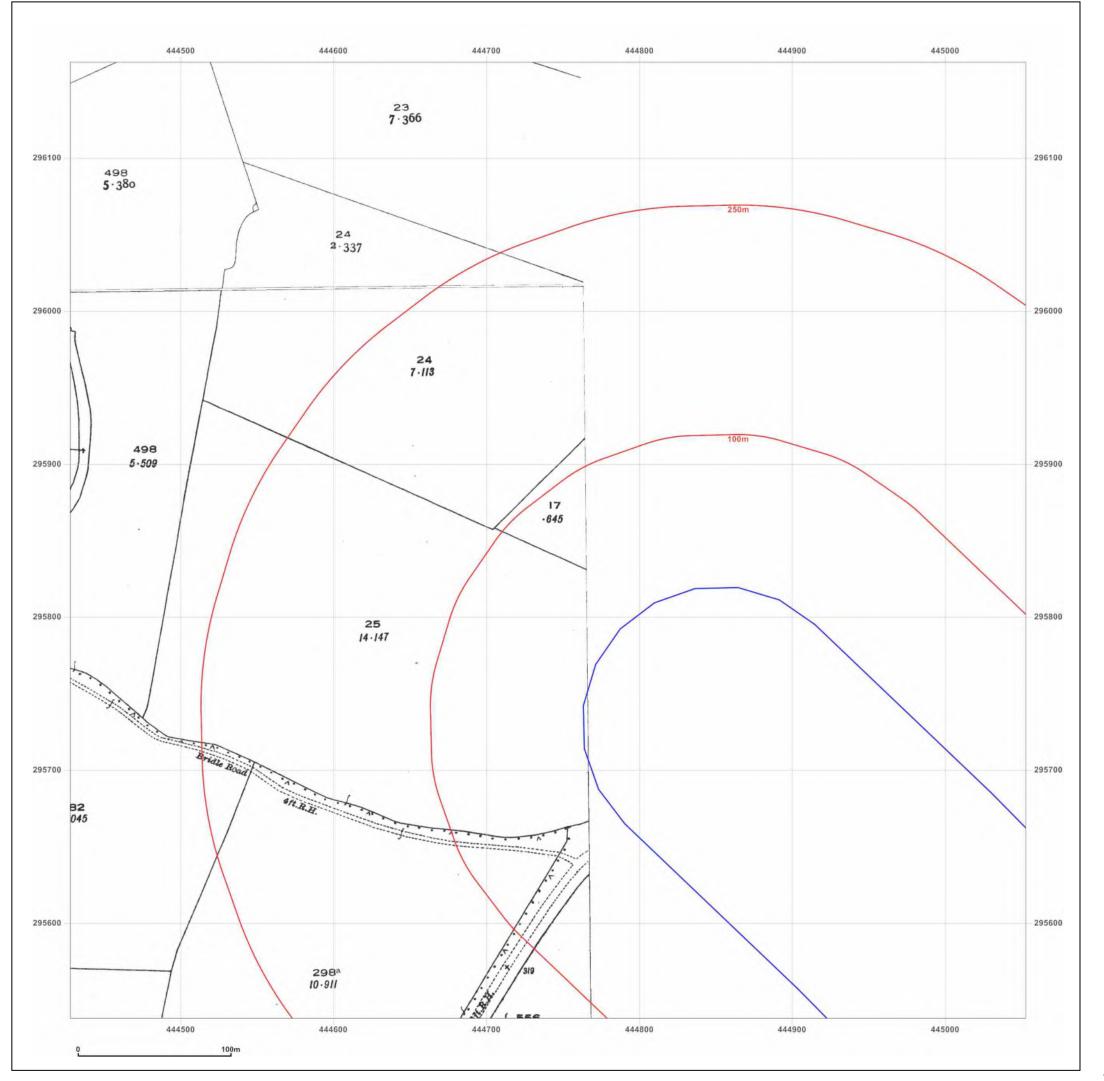




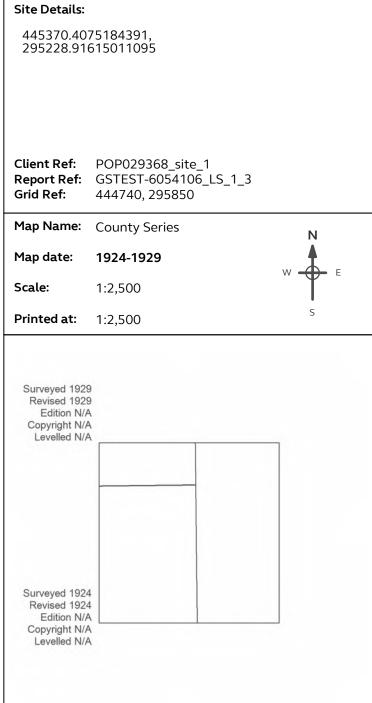
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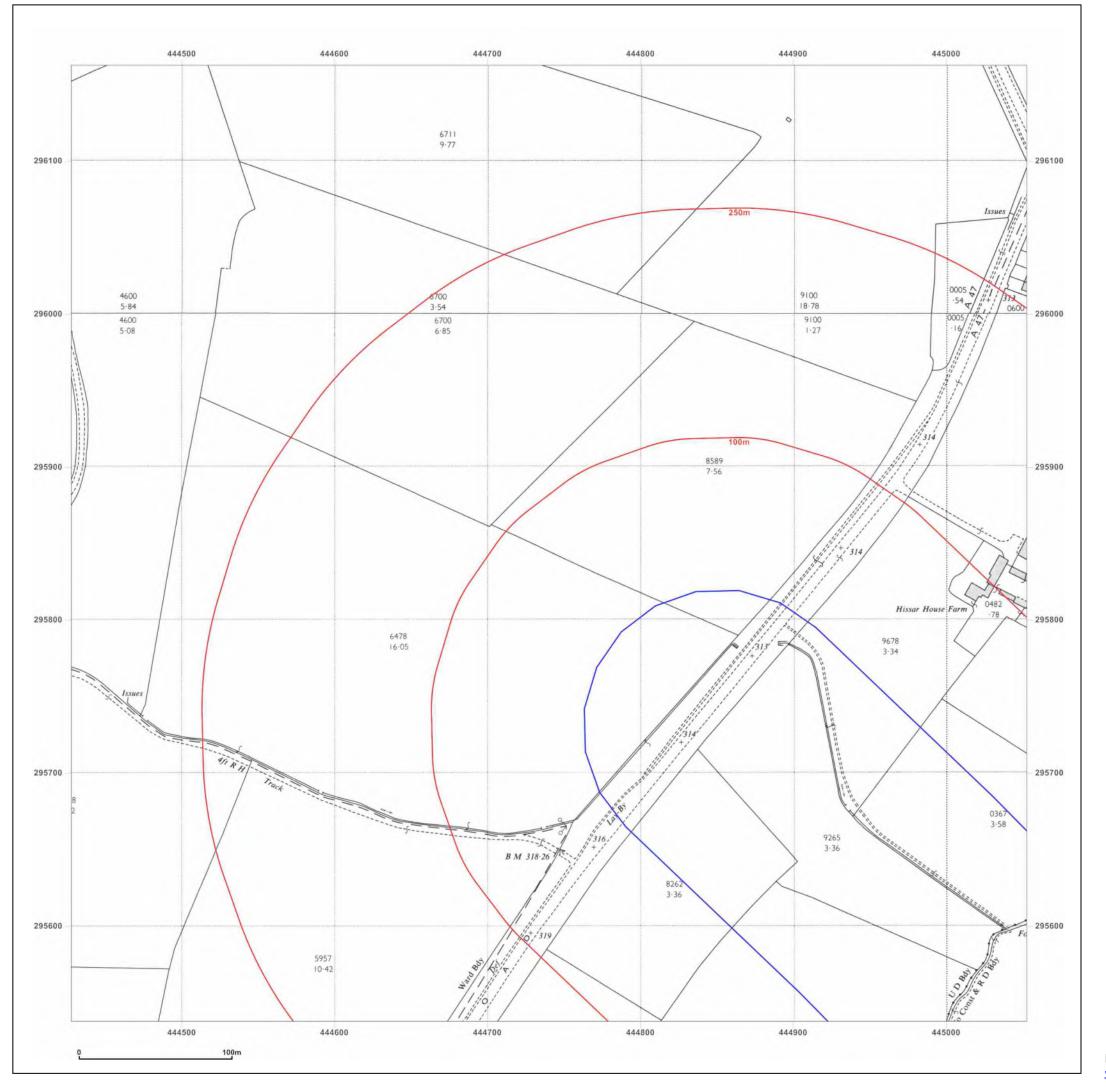




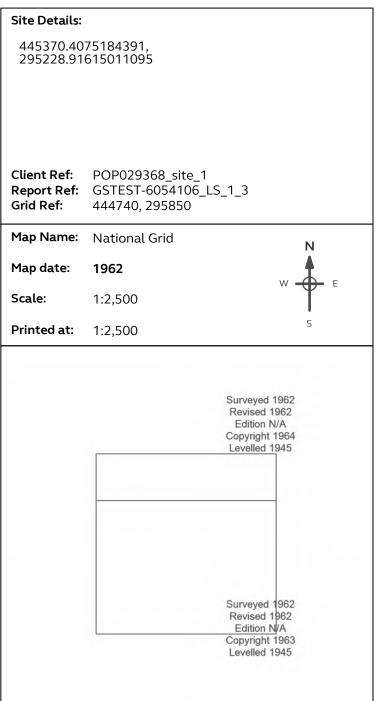
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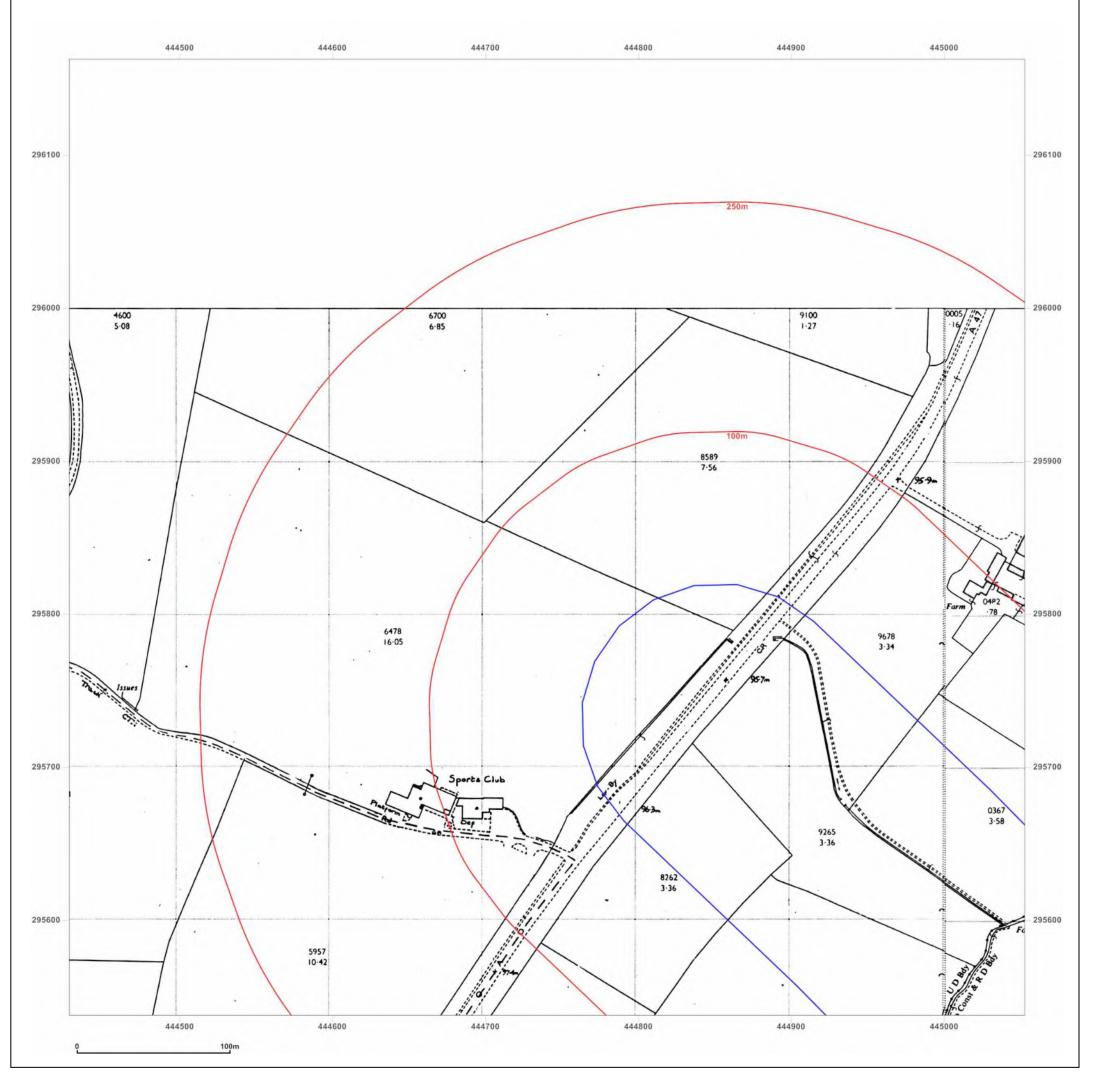




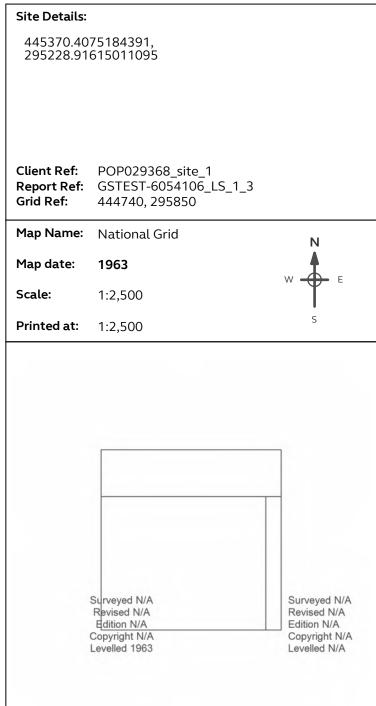
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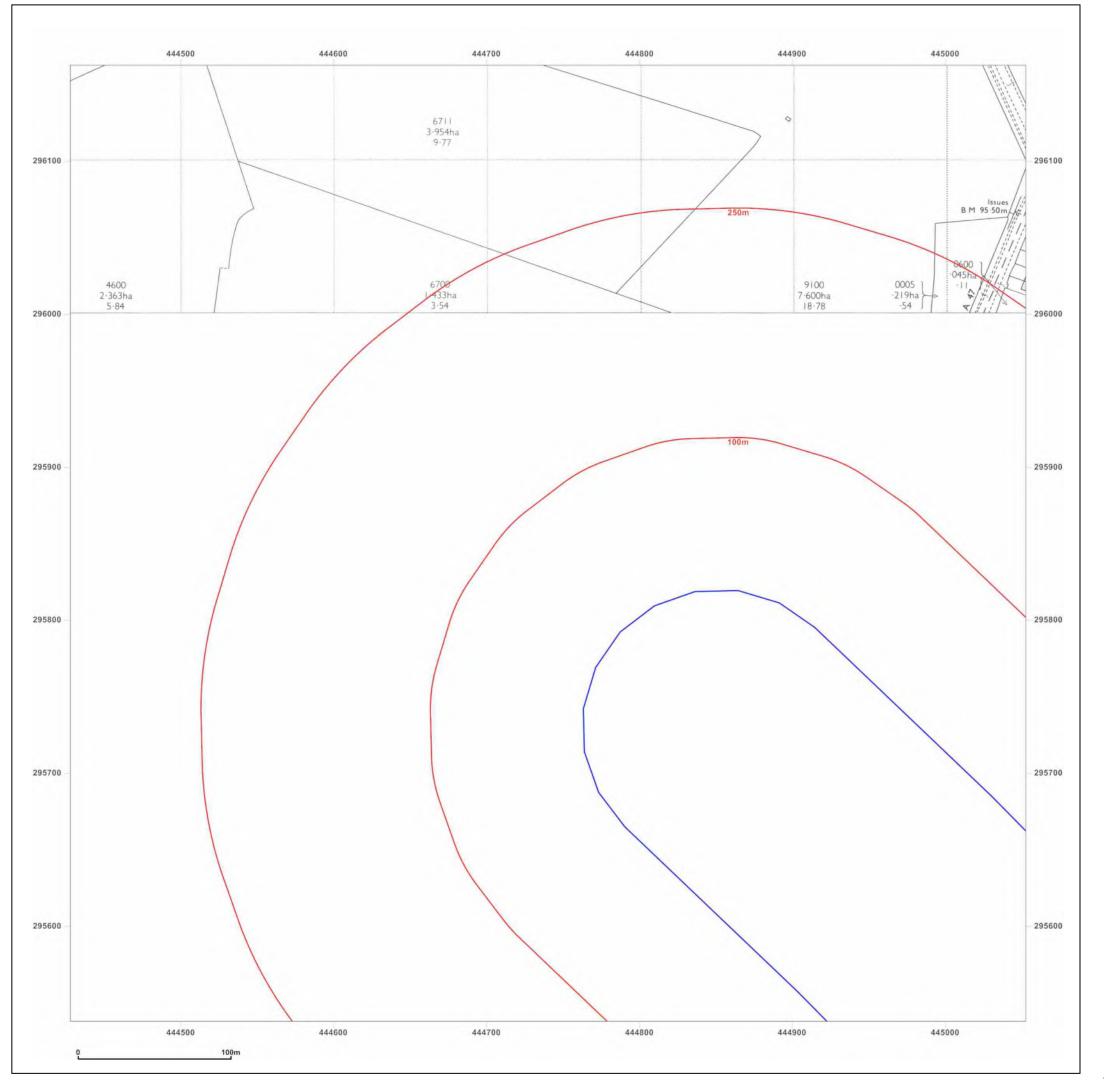




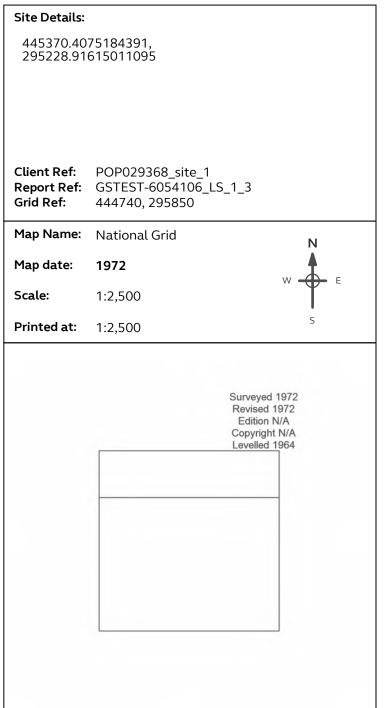
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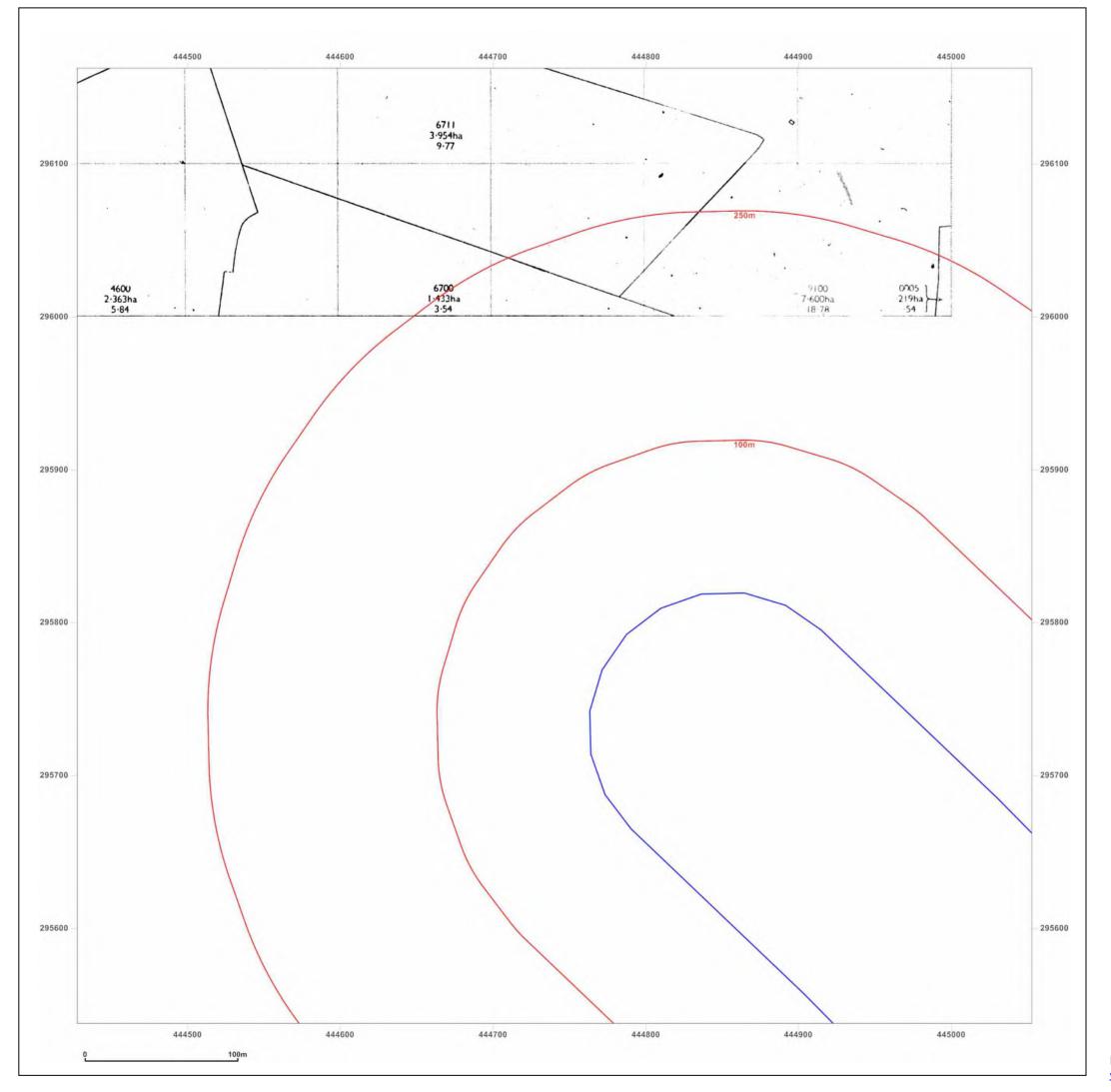




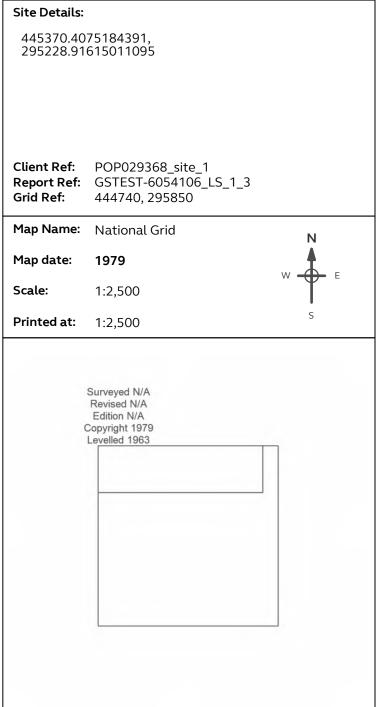
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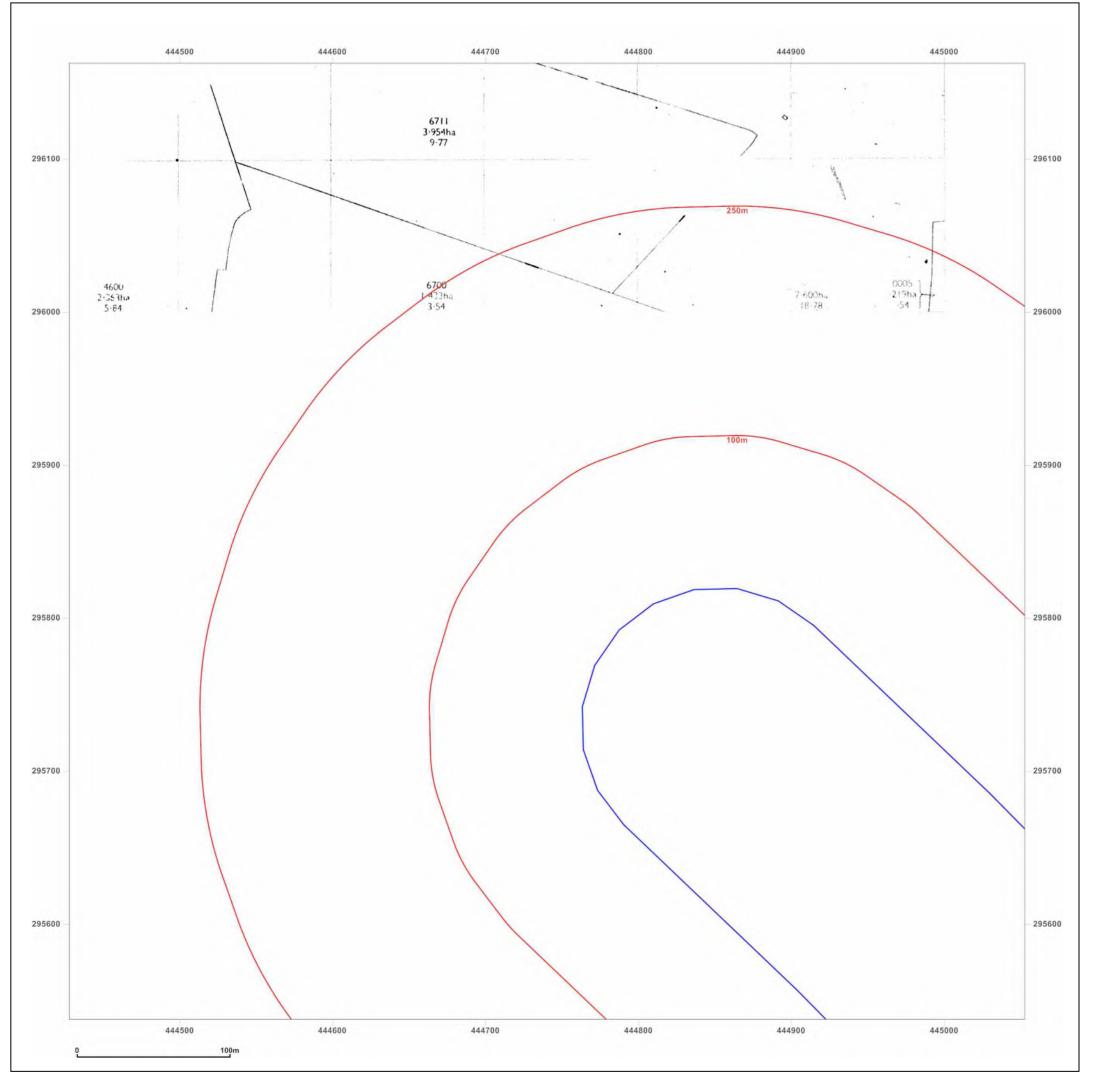




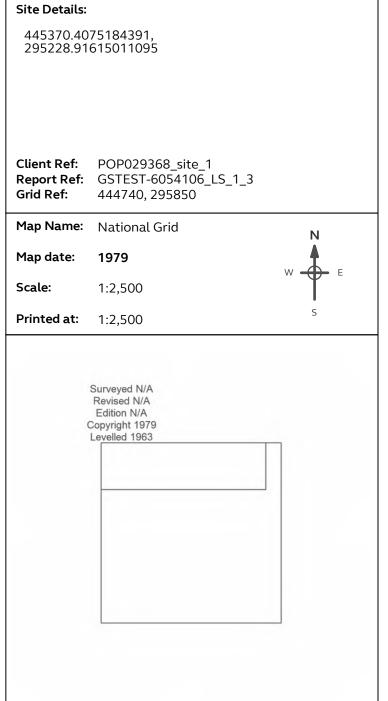
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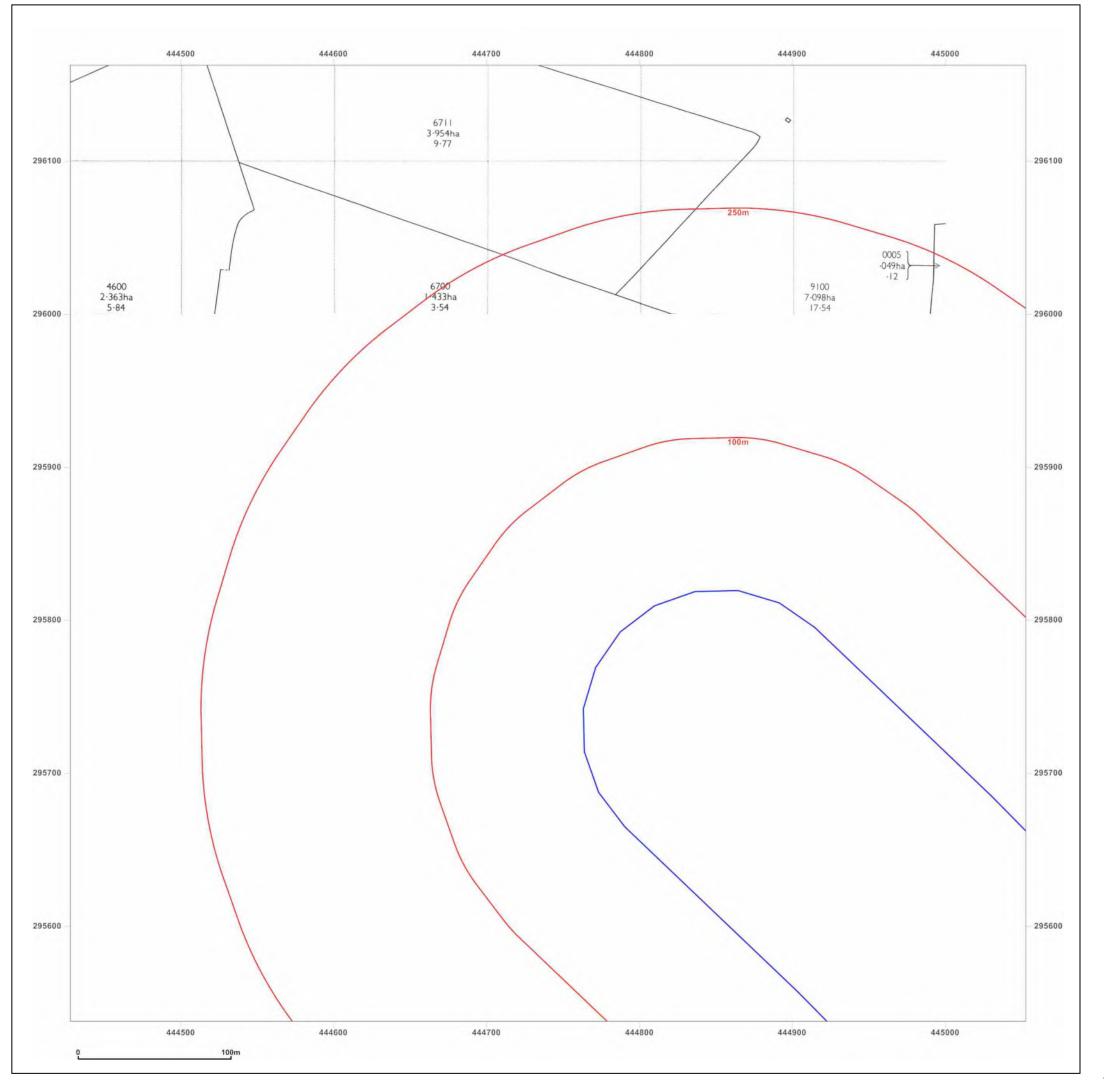




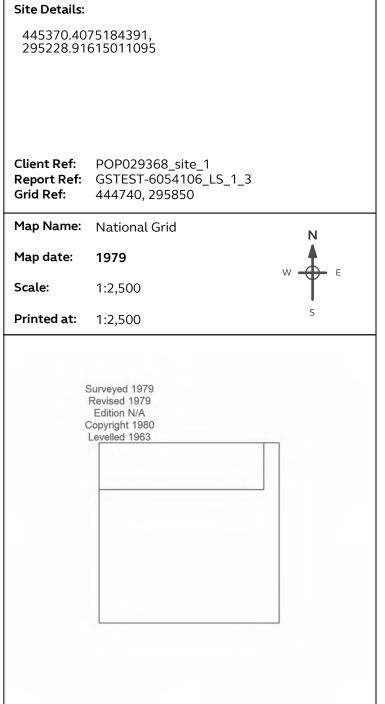
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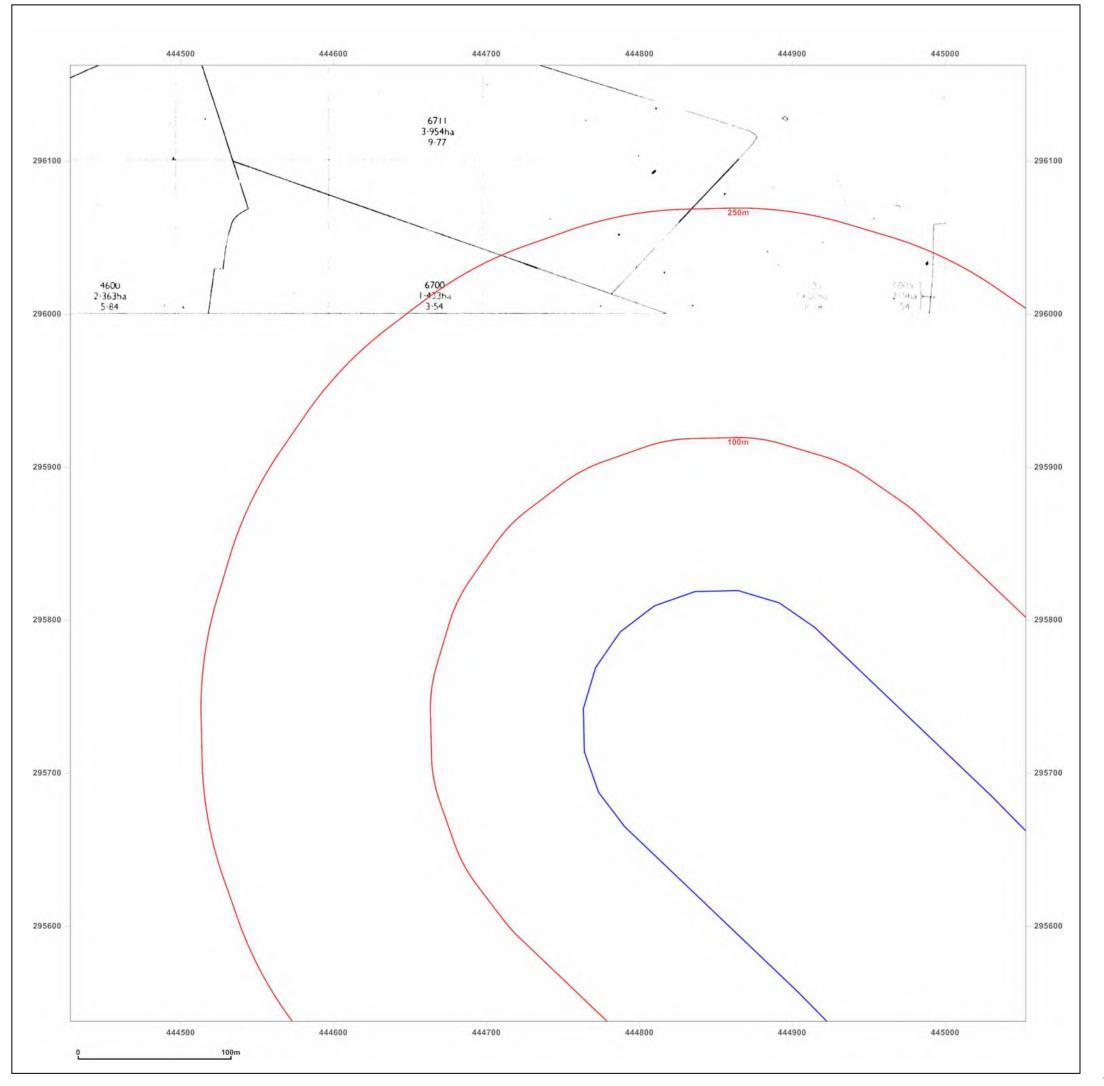




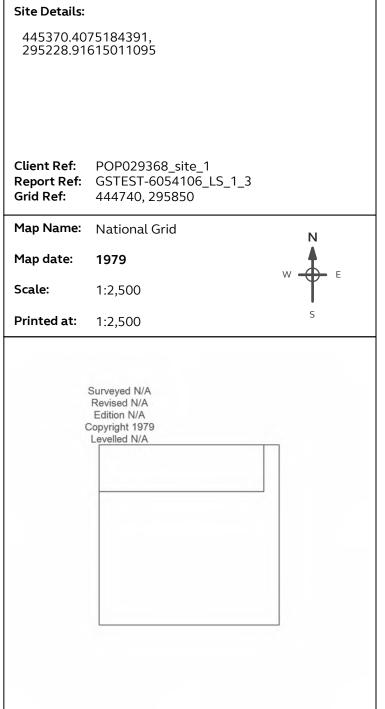
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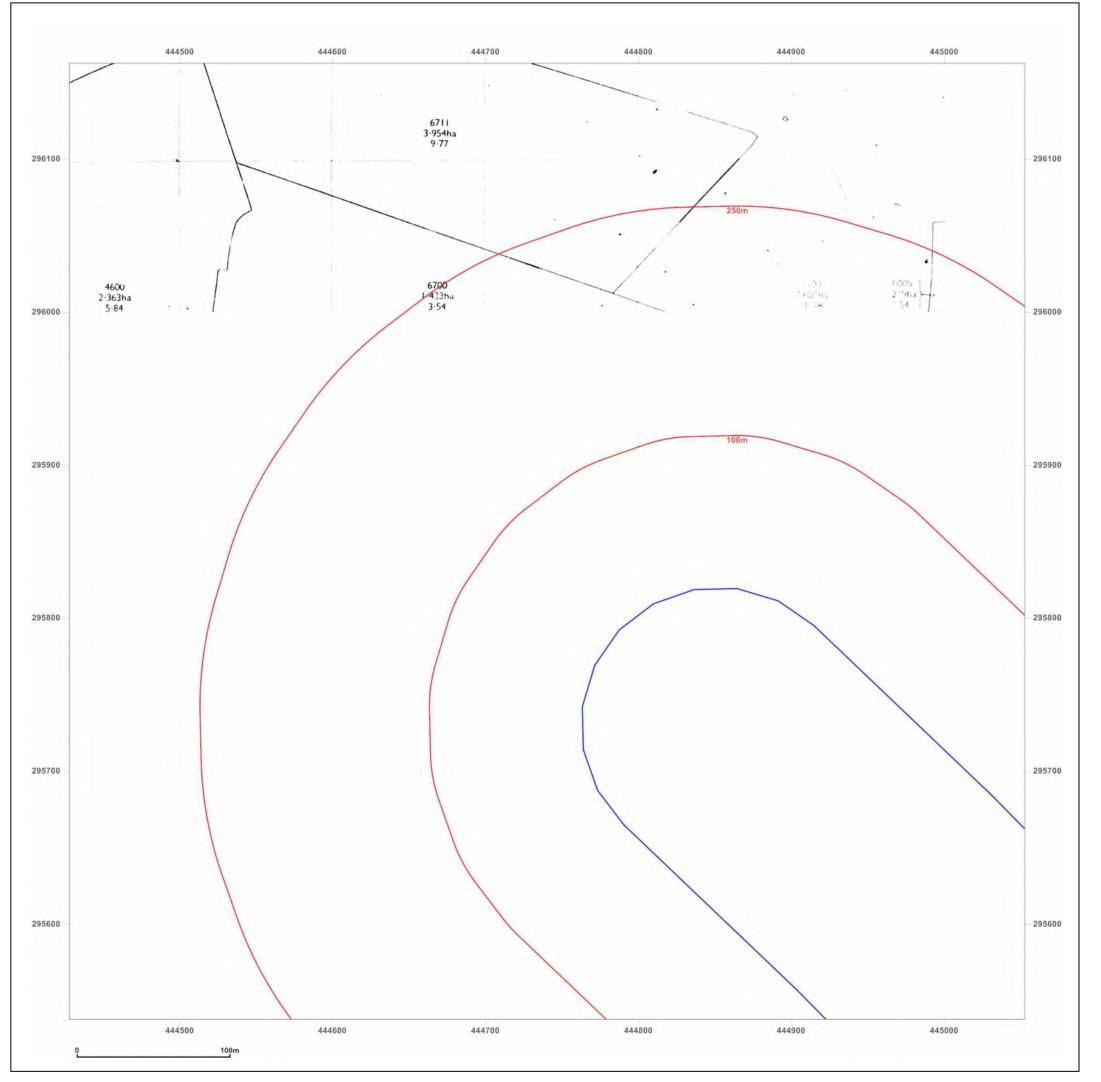




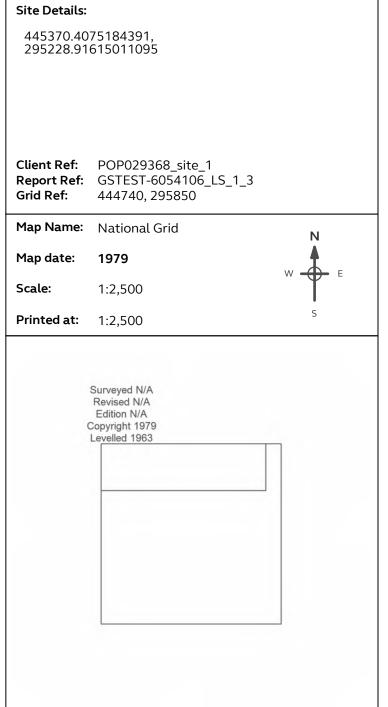
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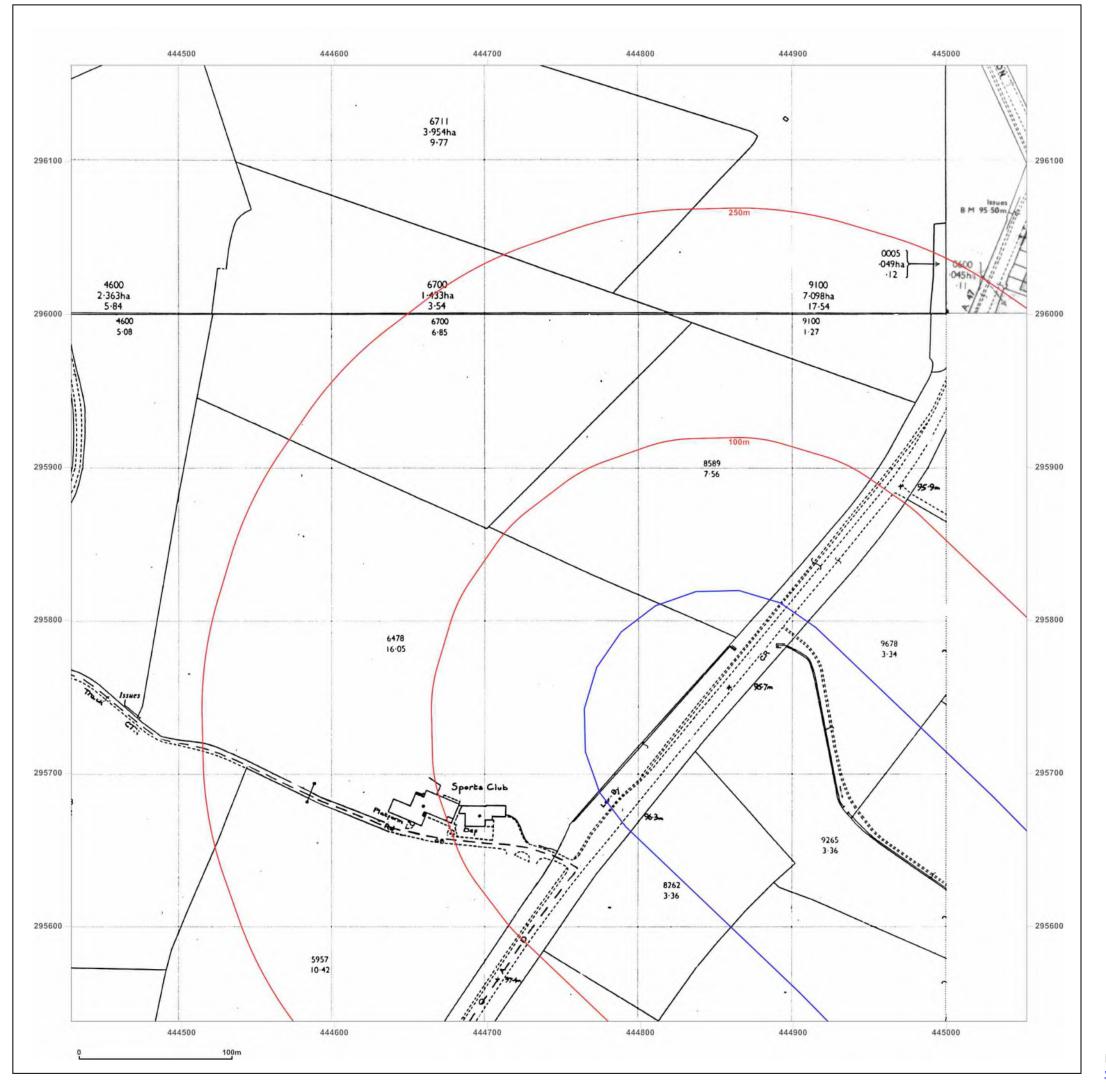




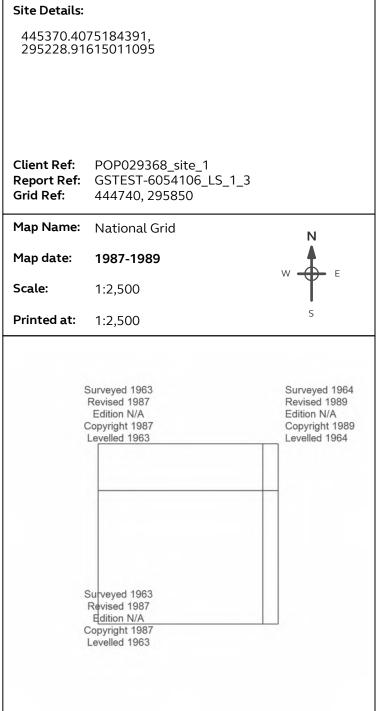
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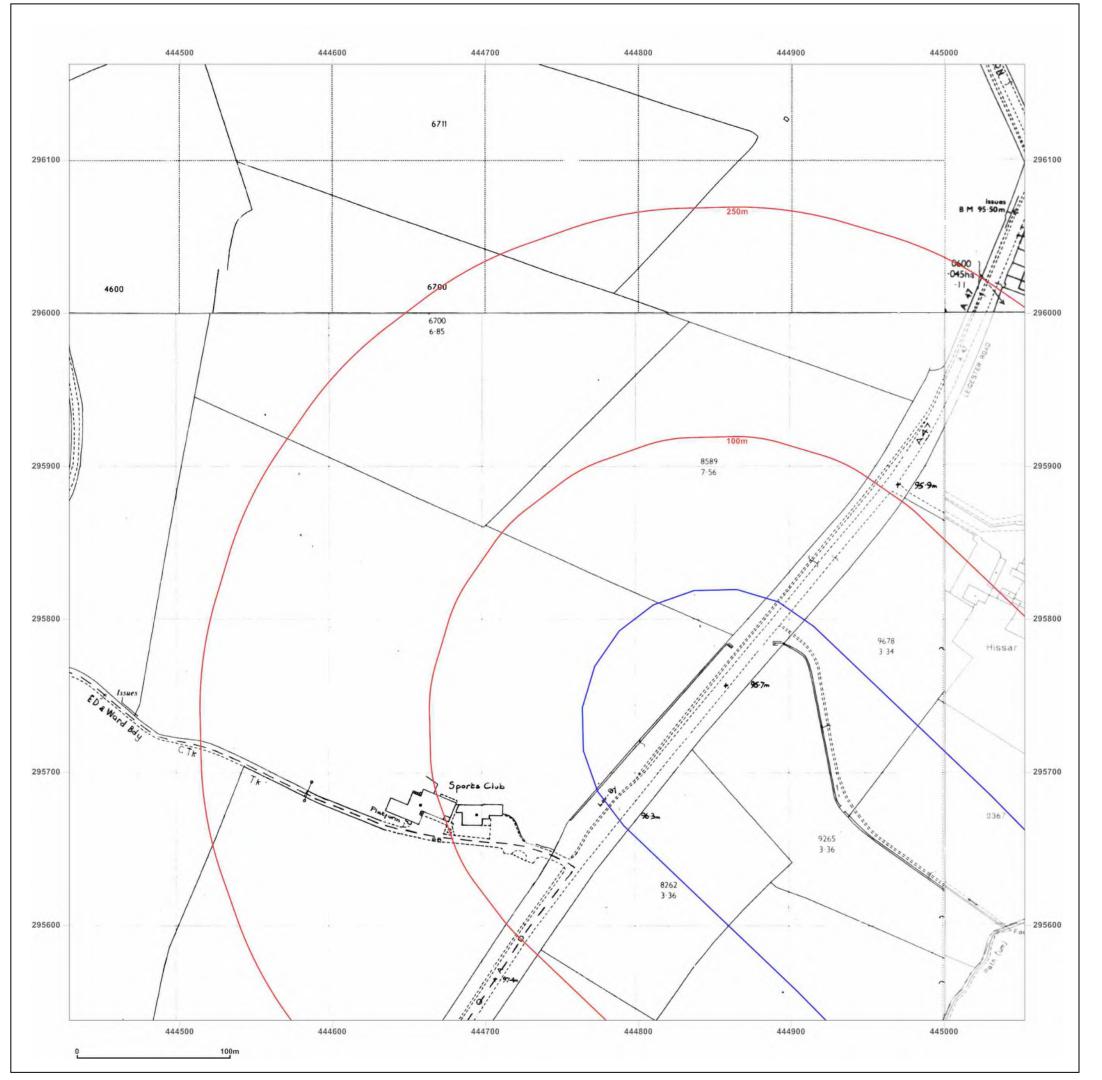




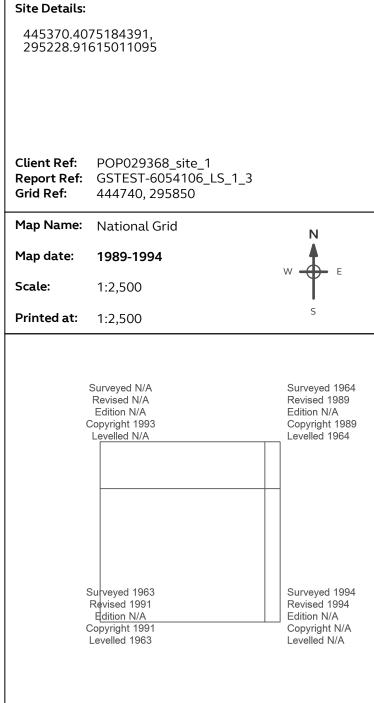
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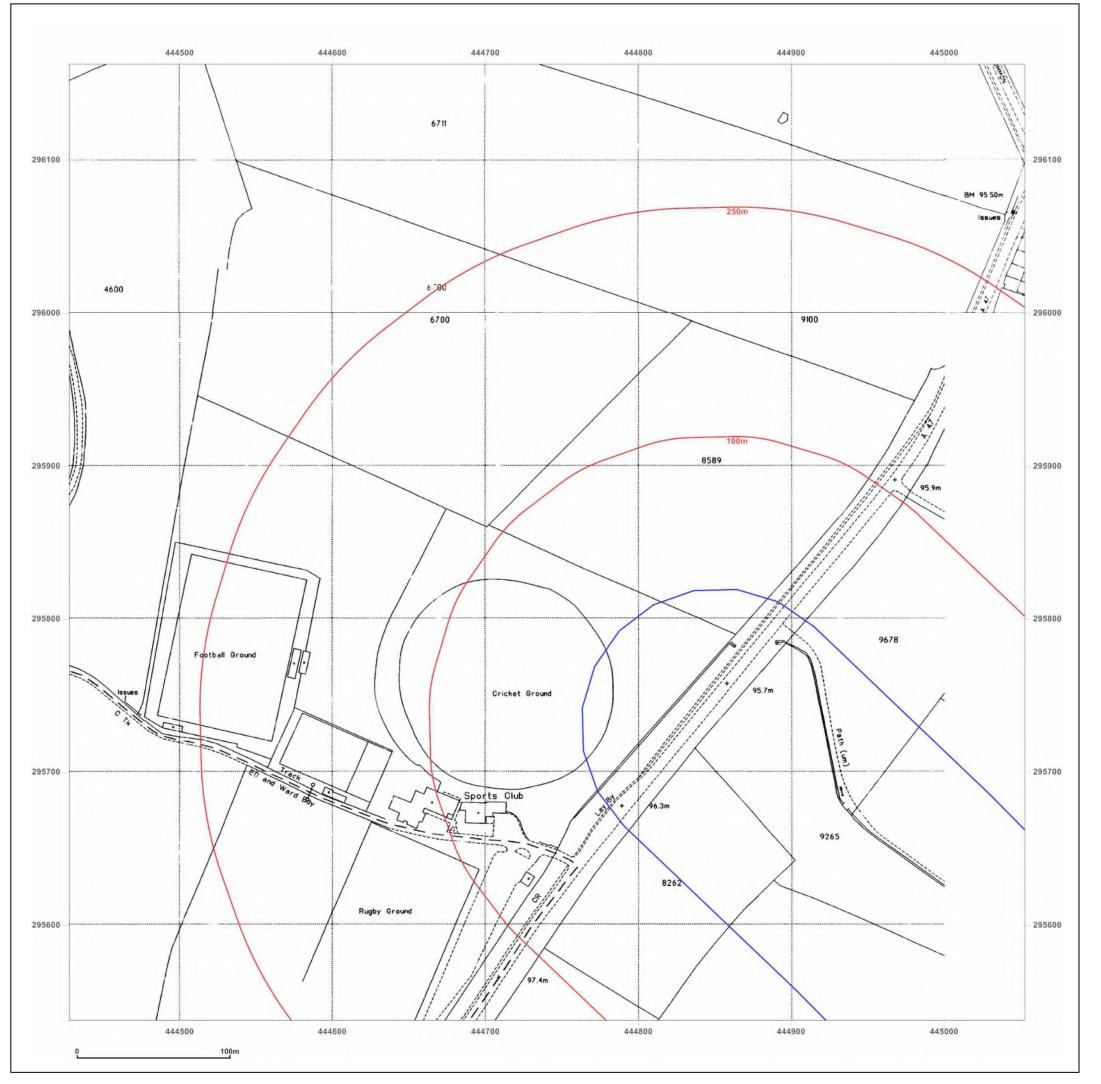




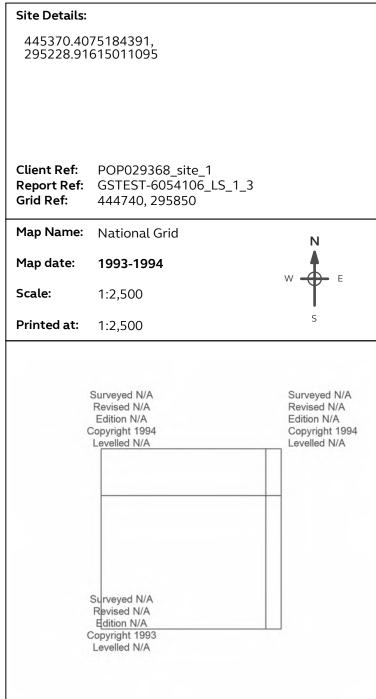
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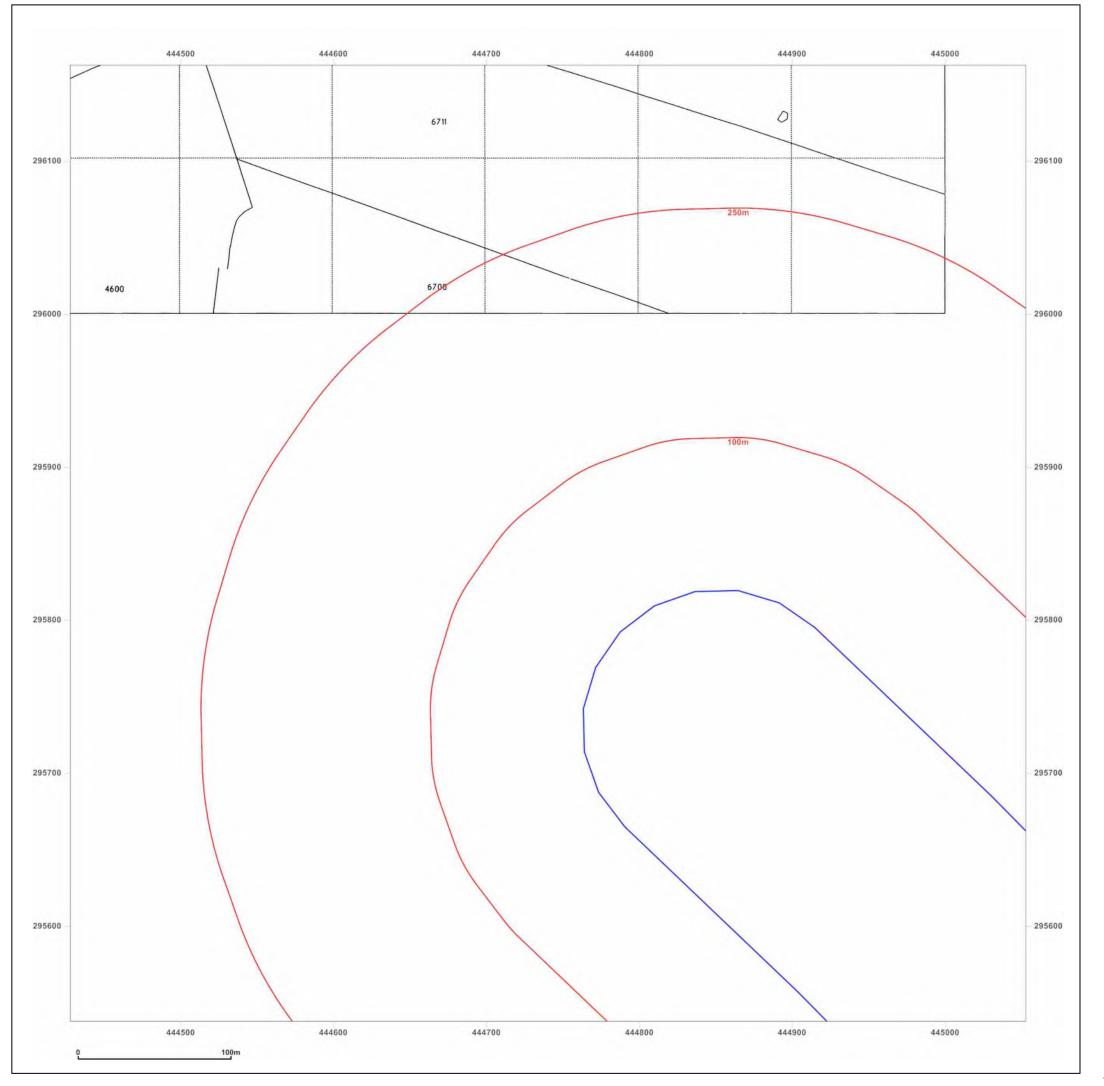




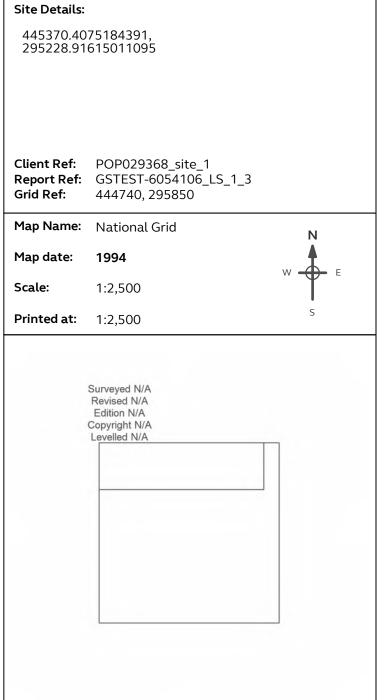
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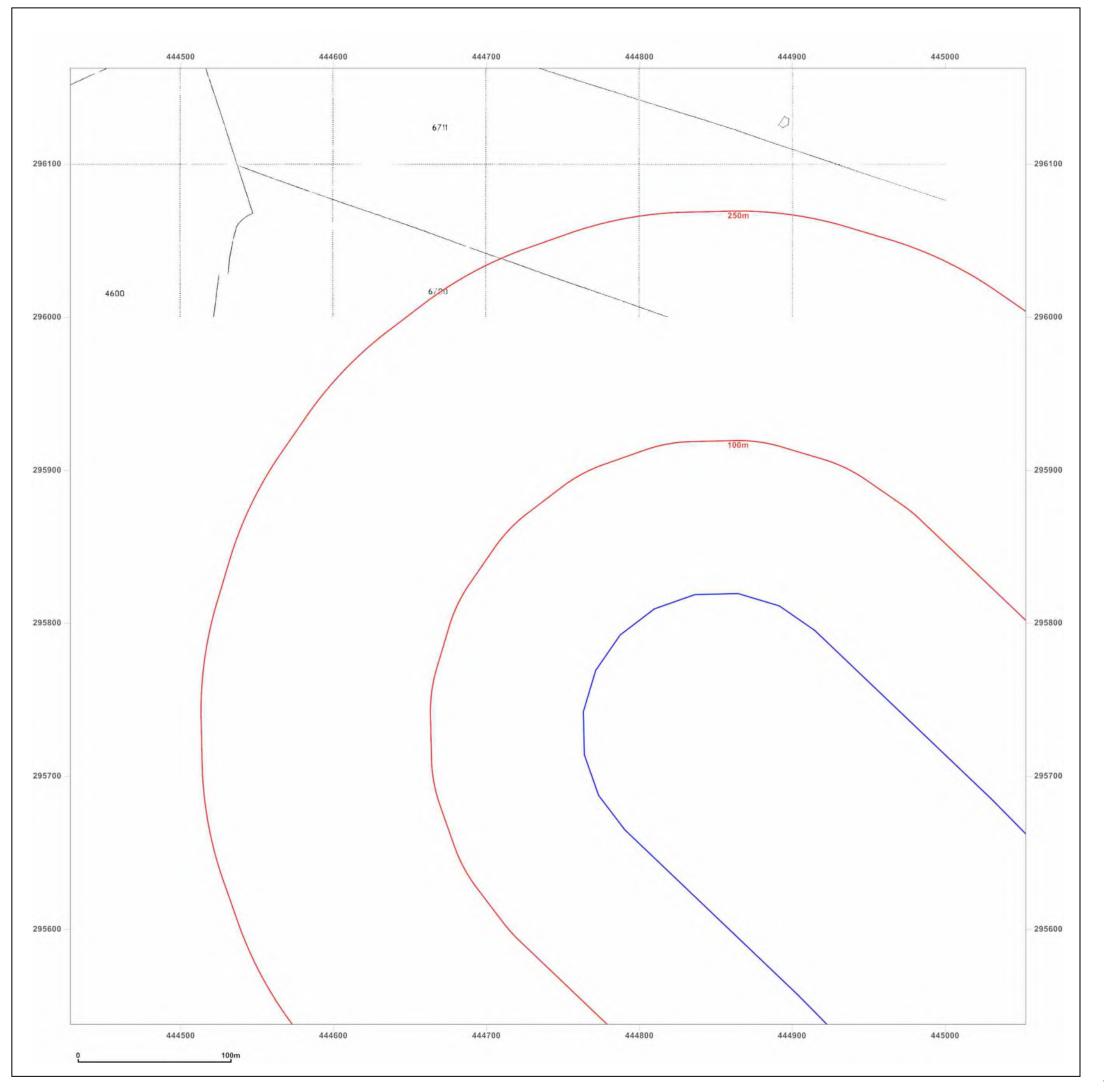




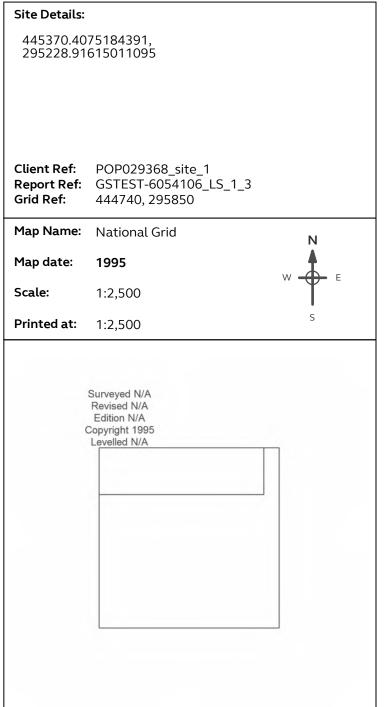
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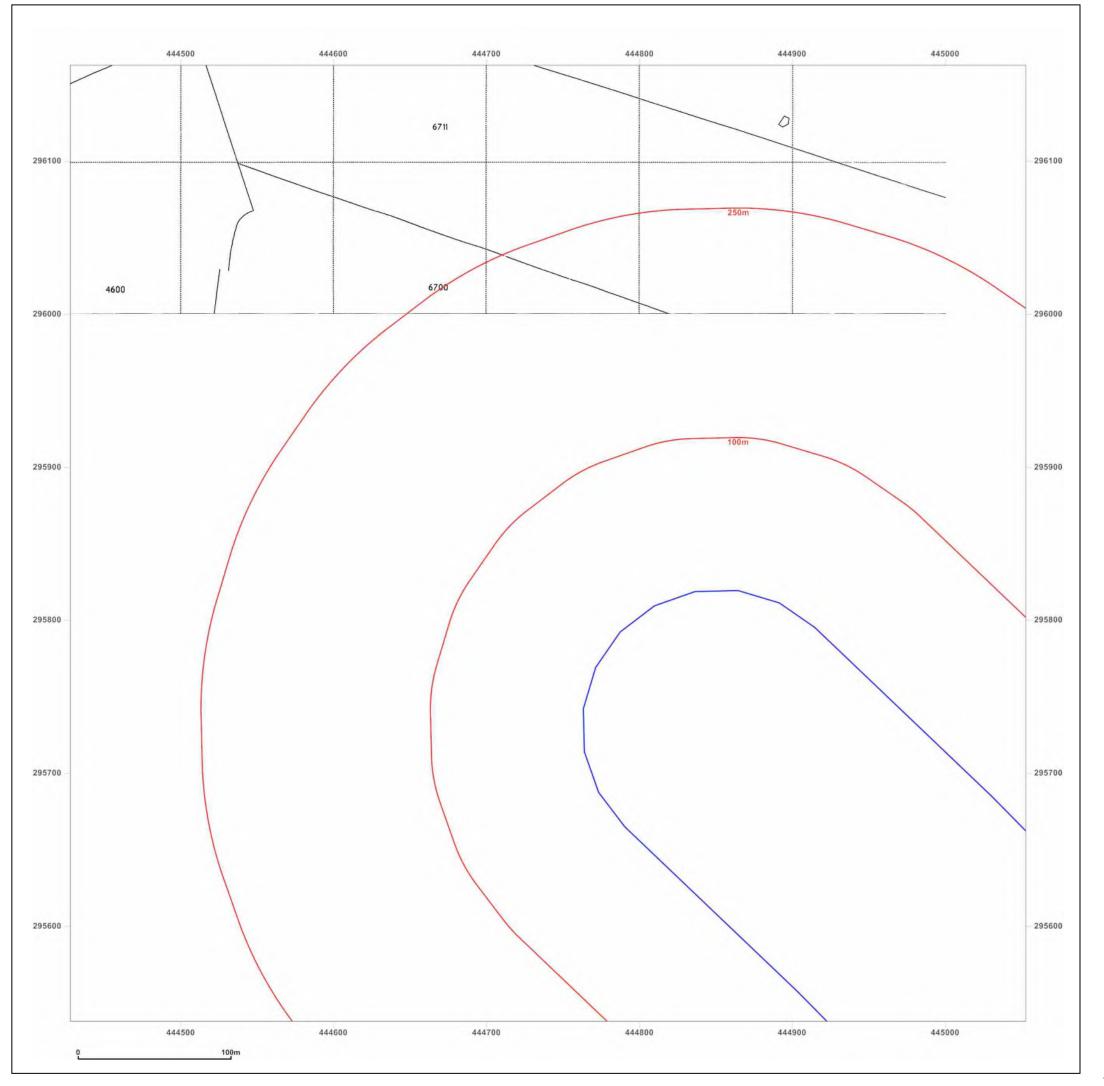




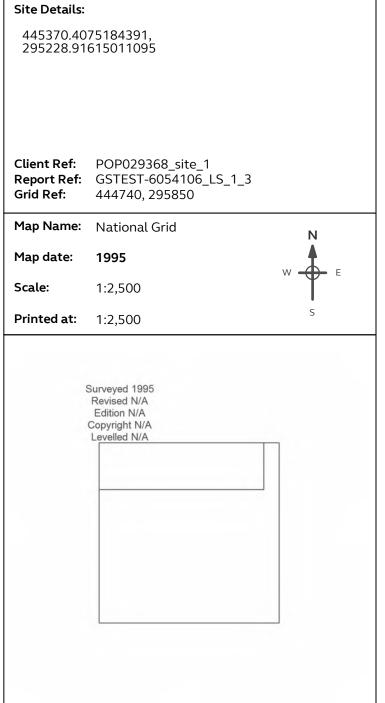
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Production date: 24 May 2019

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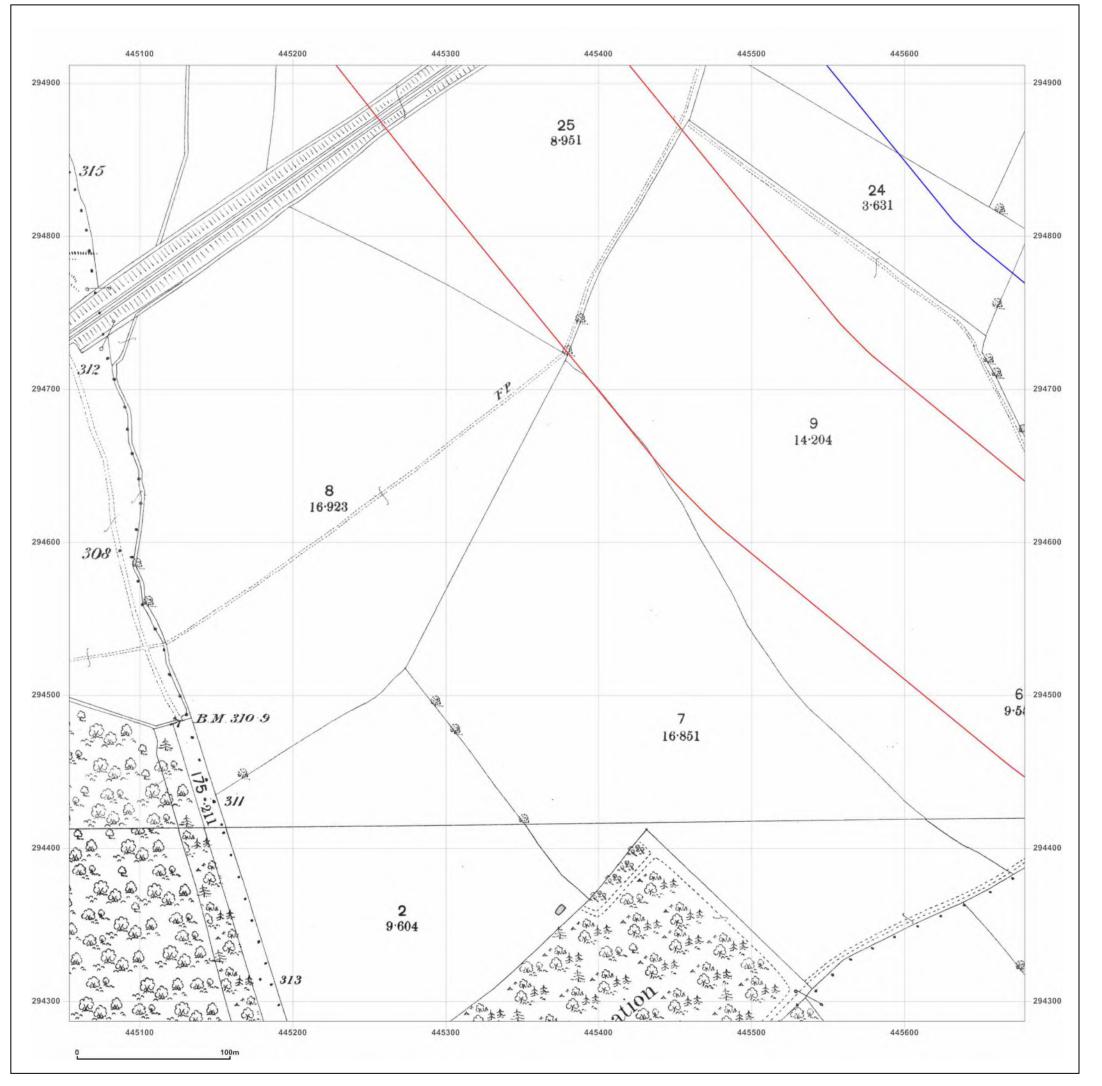




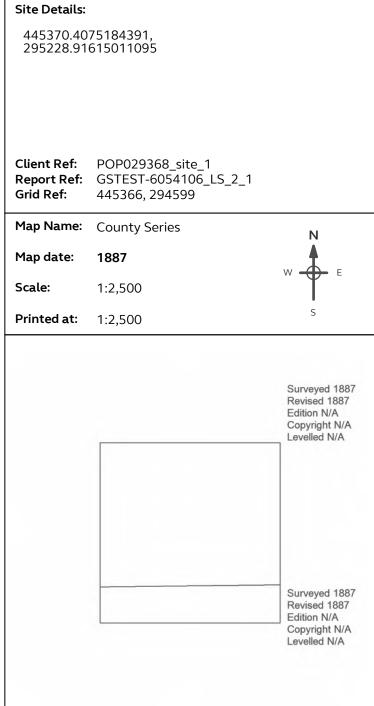
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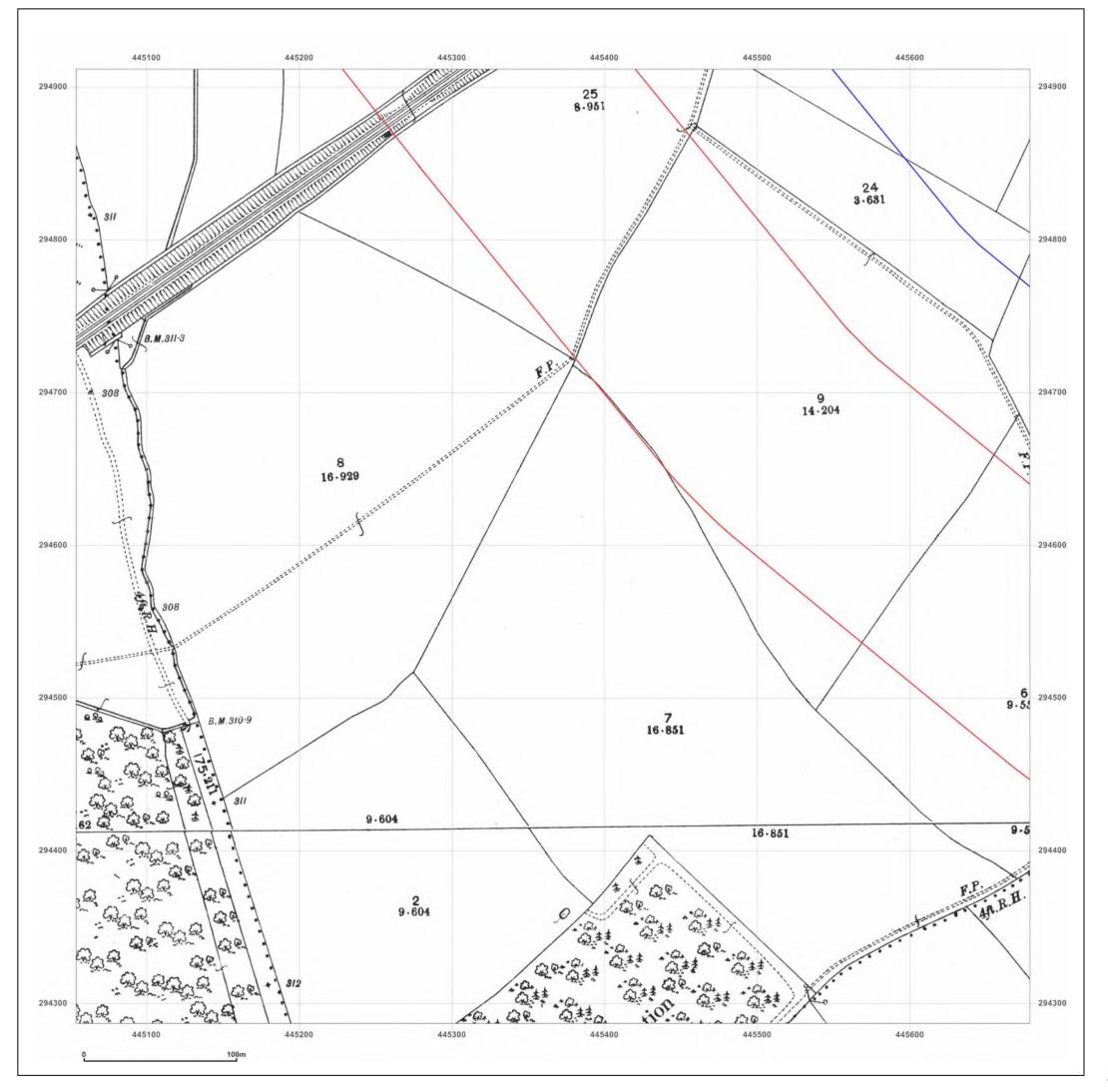




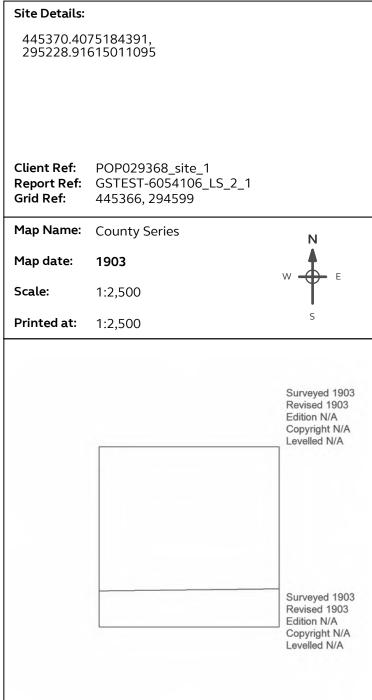
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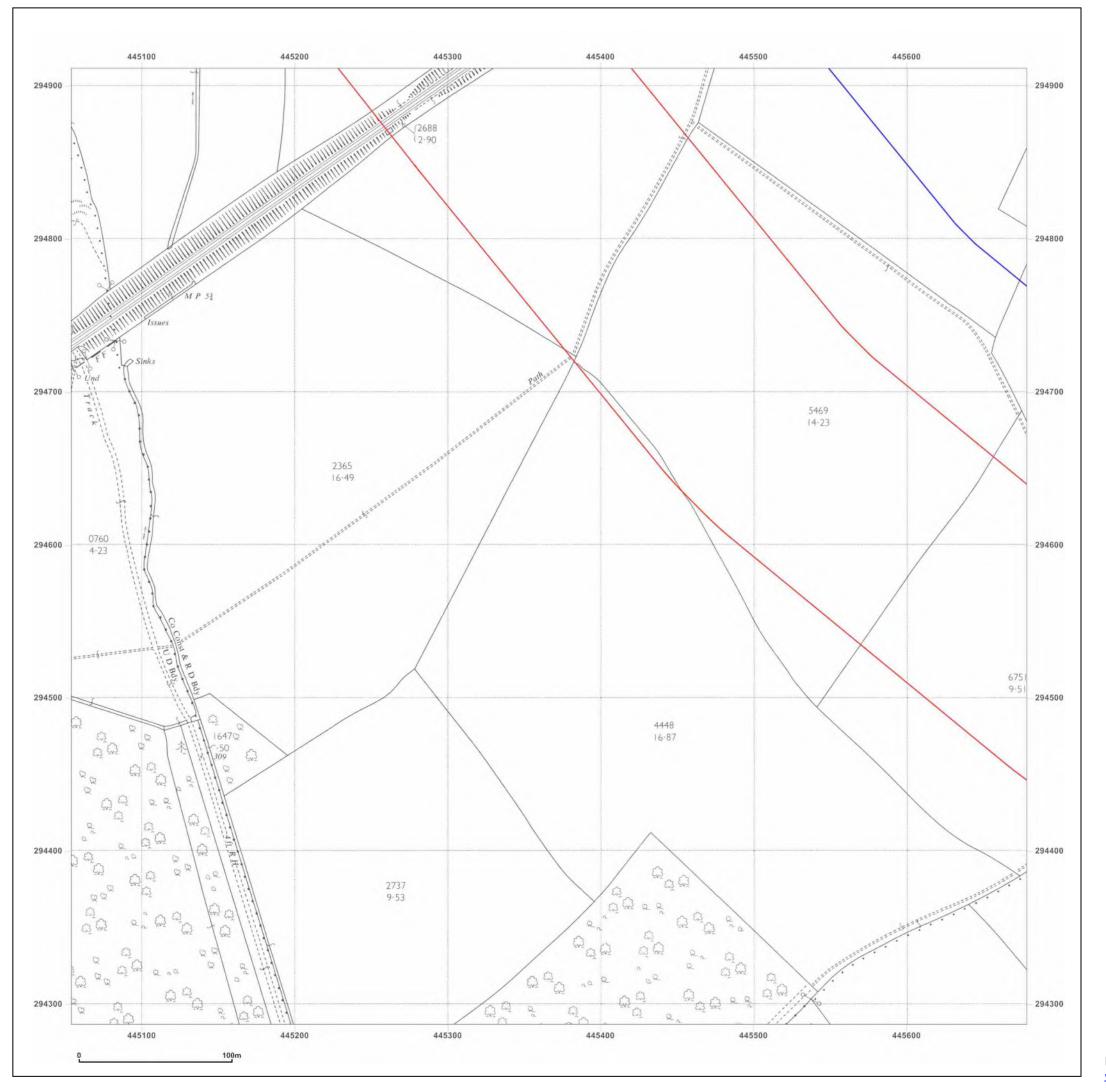




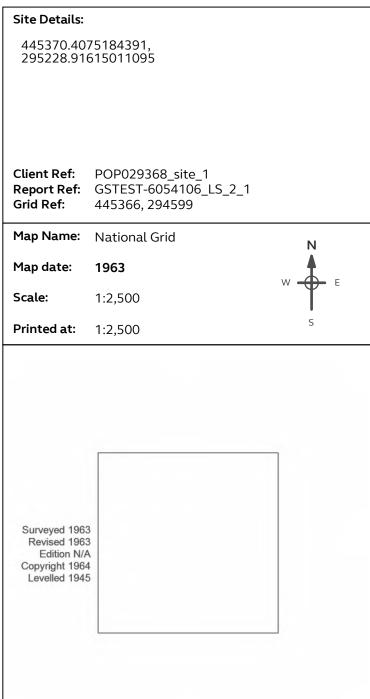
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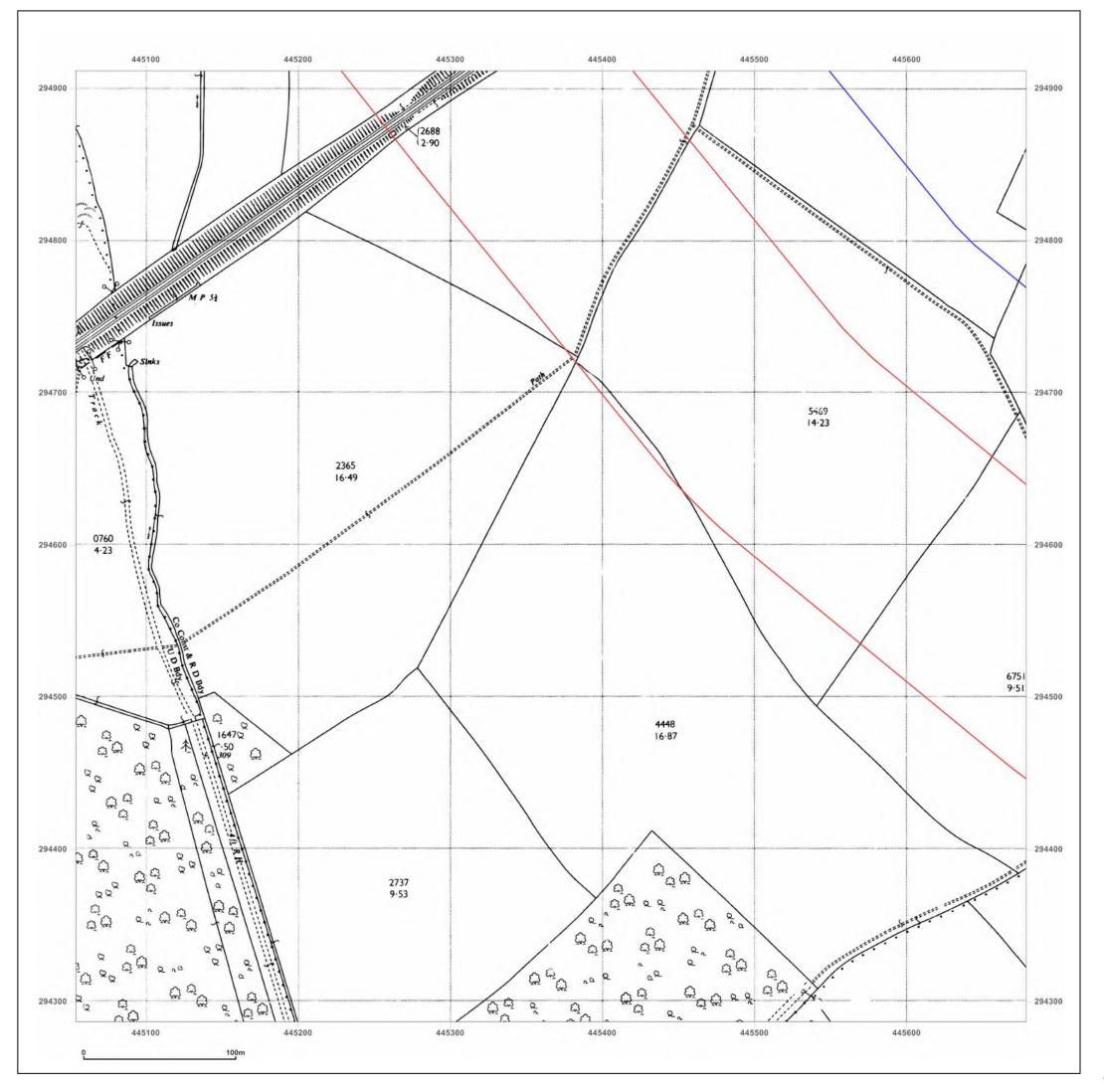




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Map legend available at:





445370.4075184391, 295228.91615011095

Client Ref: POP029368_site_1
Report Ref: GSTEST-6054106_LS_2_1

Grid Ref: 445366, 294599

Map Name: National Grid

Map date: 1964

Scale: 1:2,500

Printed at: 1:2,500

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

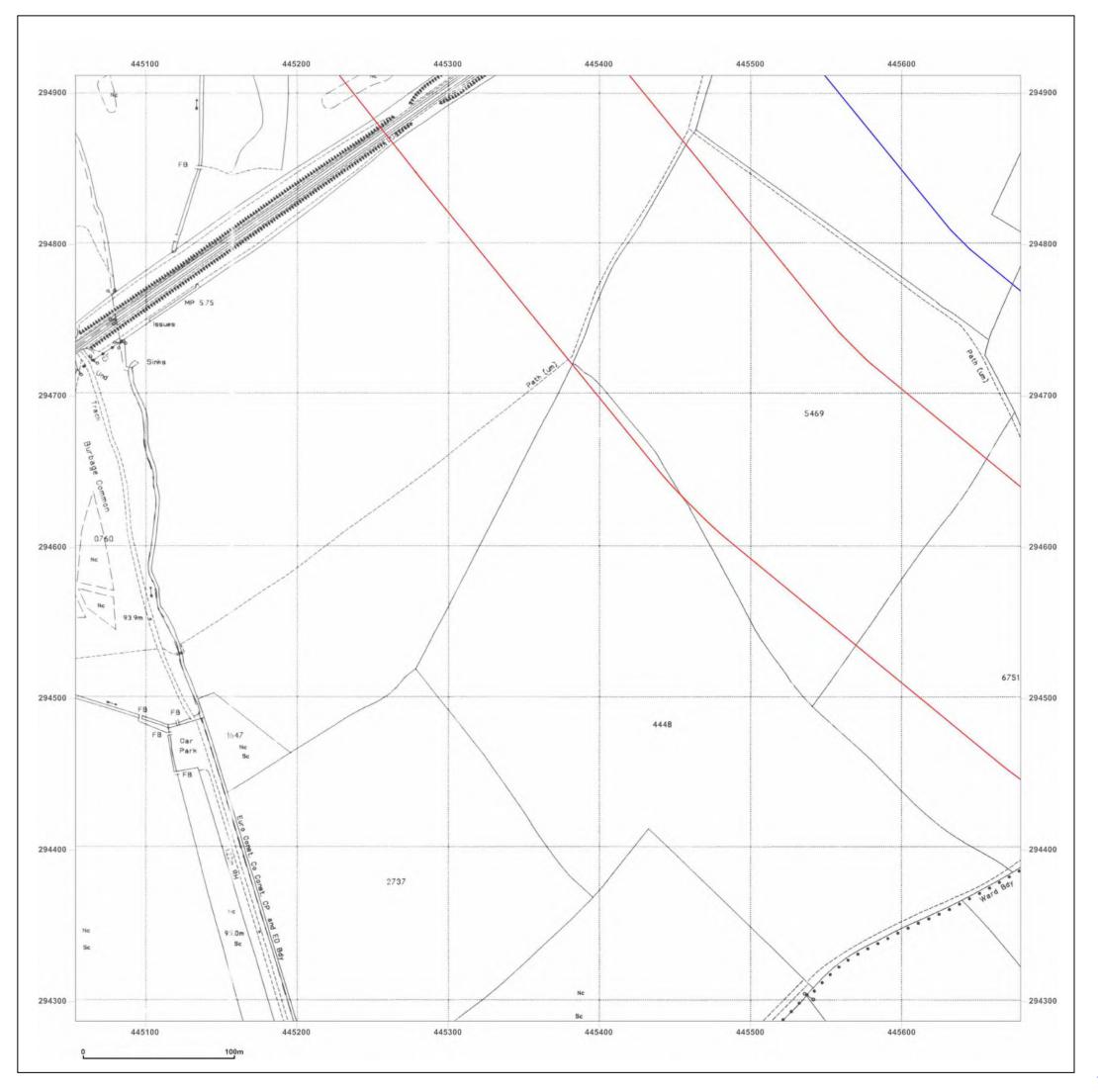


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Production date: 24 May 2019

Map legend available at:





445370.4075184391, 295228.91615011095

Client Ref: POP029368_site_1
Report Ref: GSTEST-6054106_LS_2_1

Grid Ref: 445366, 294599

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500

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

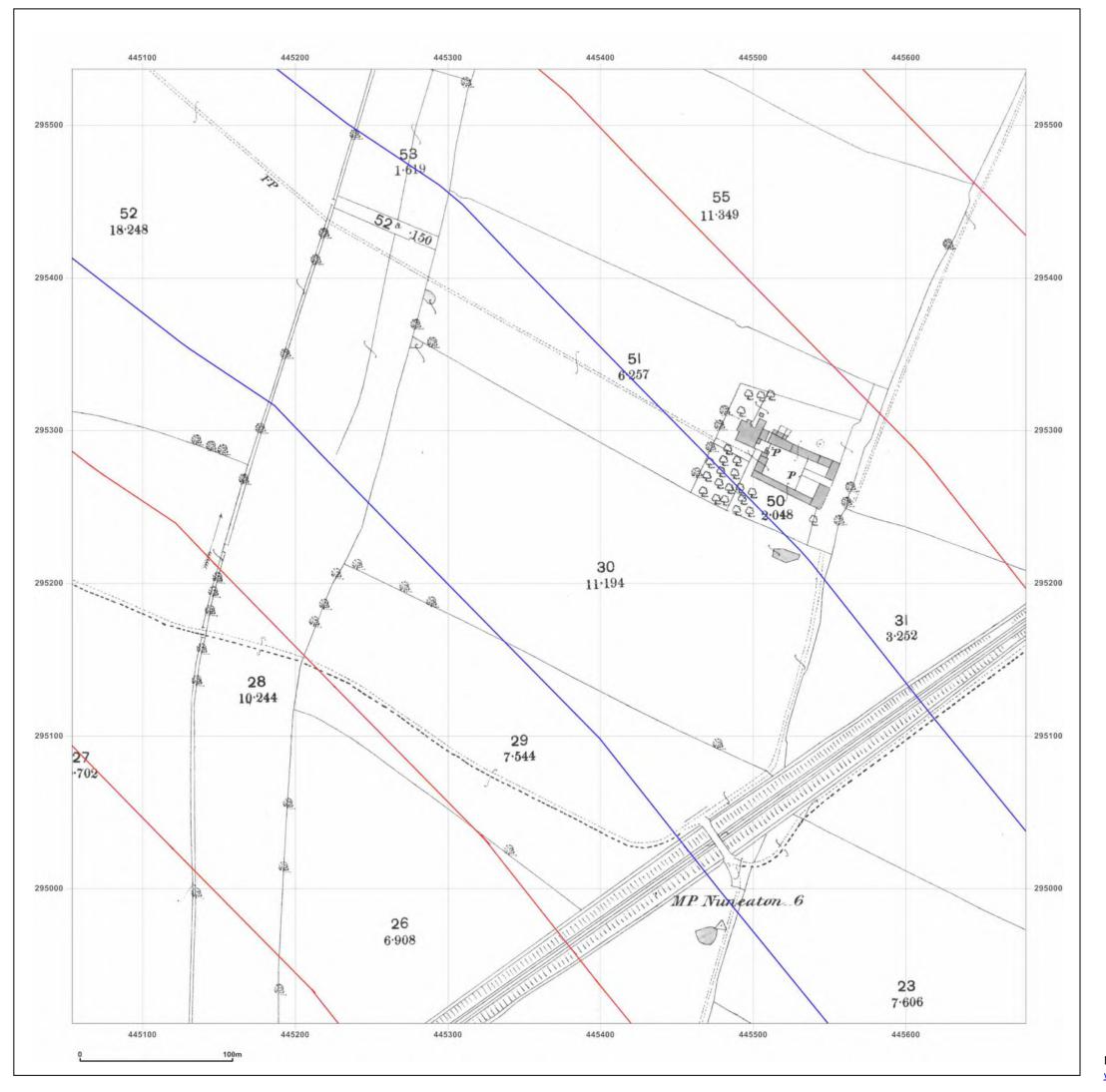


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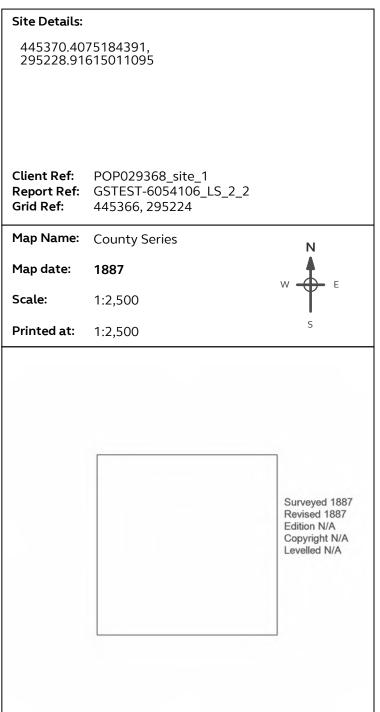
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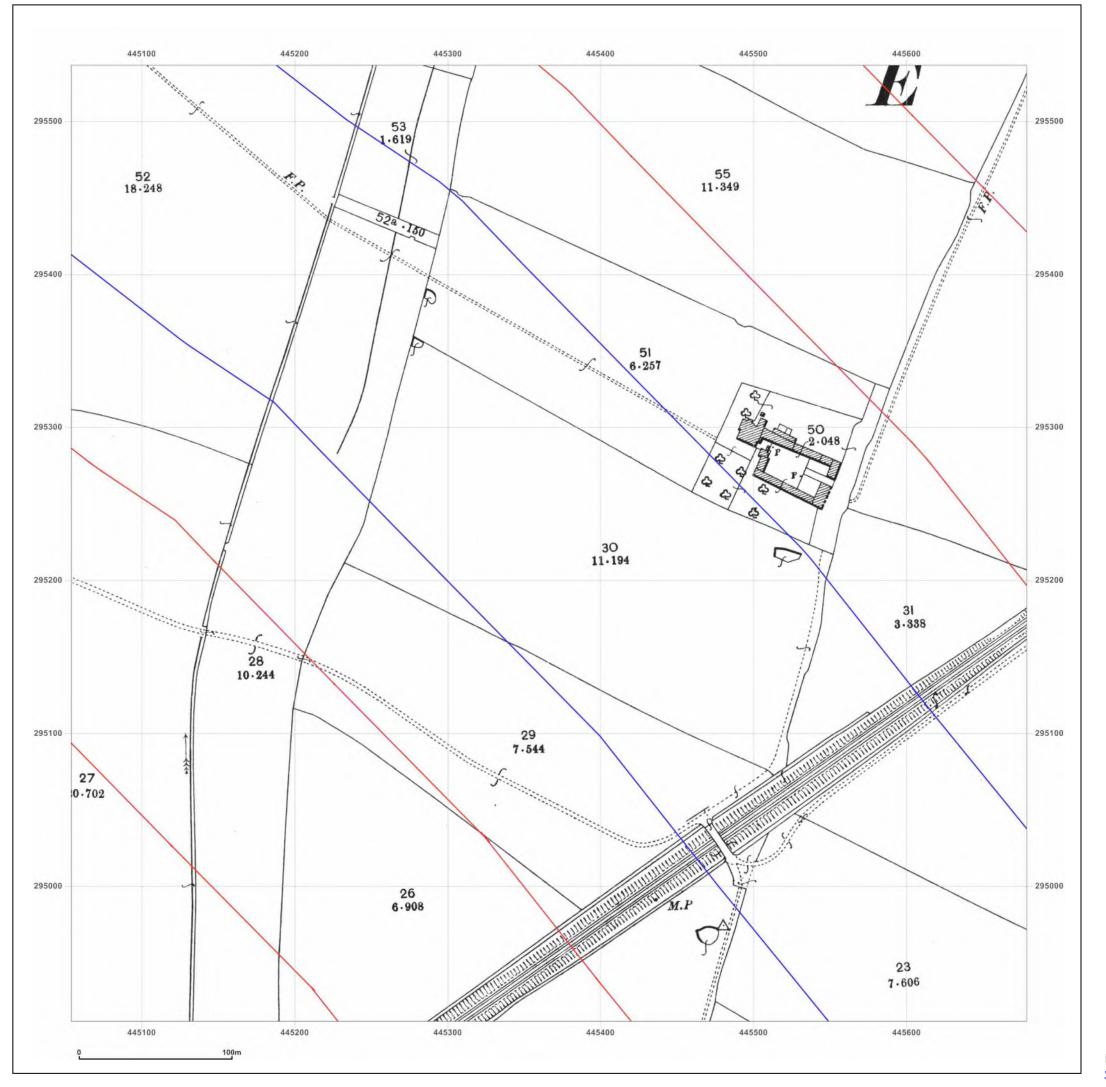




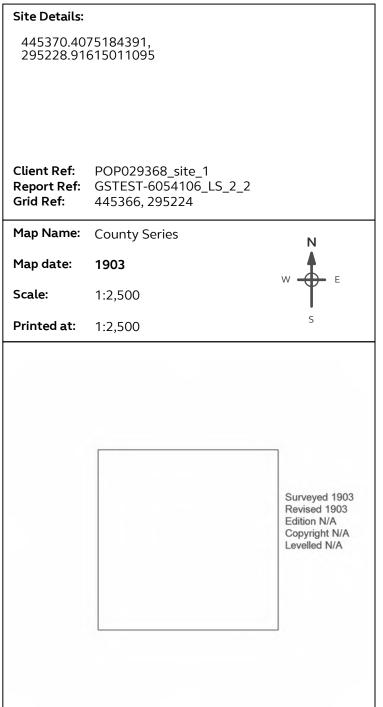
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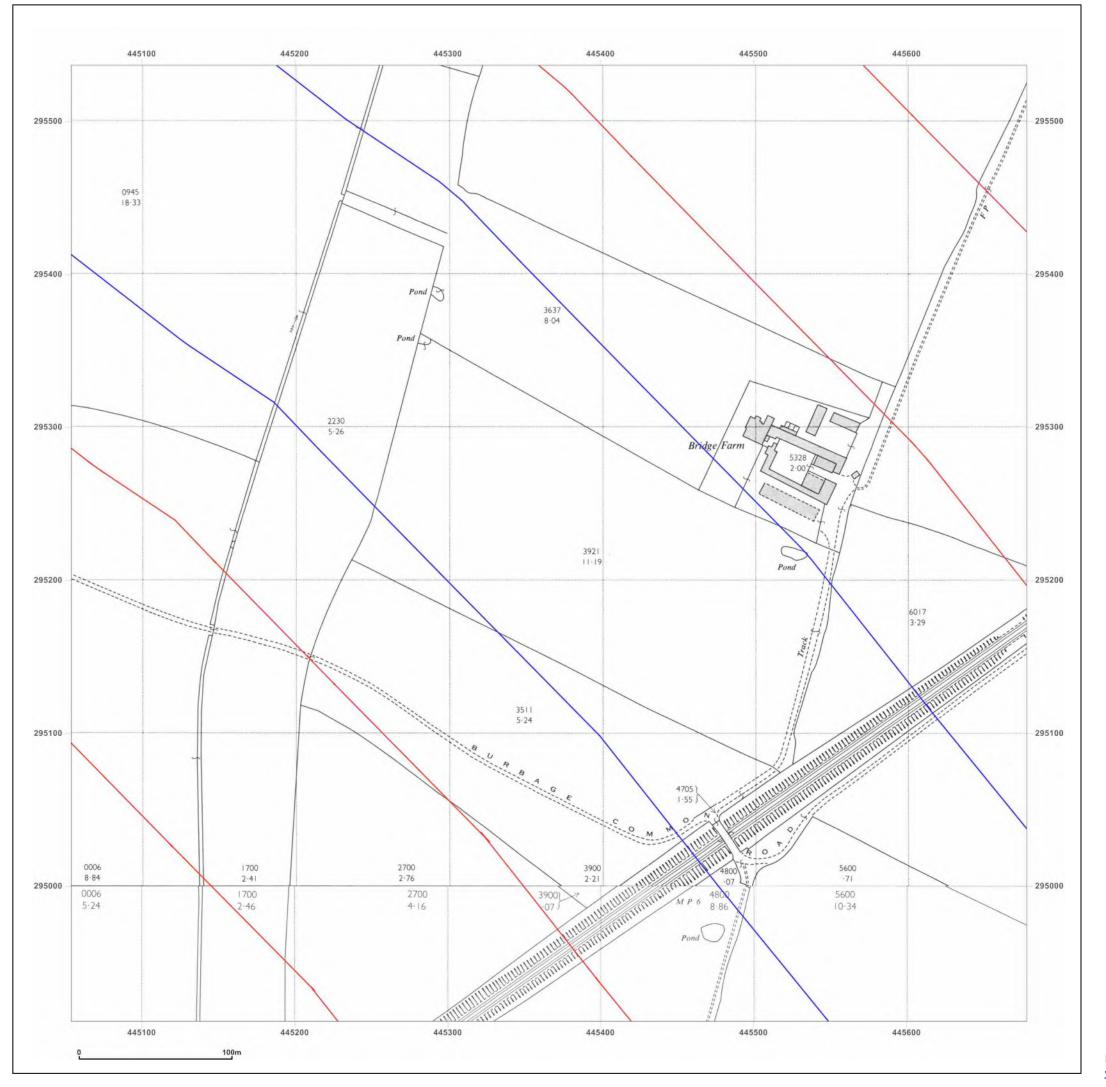




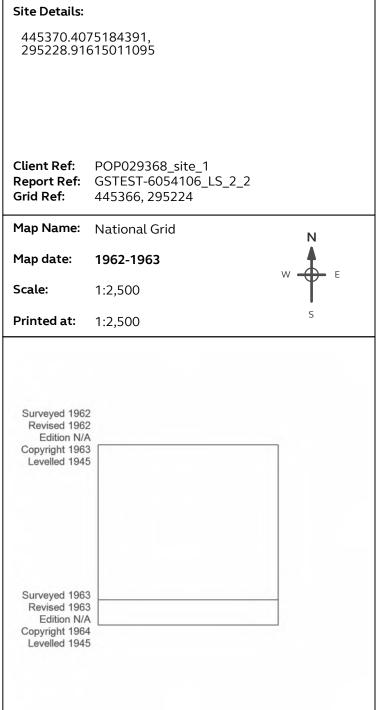
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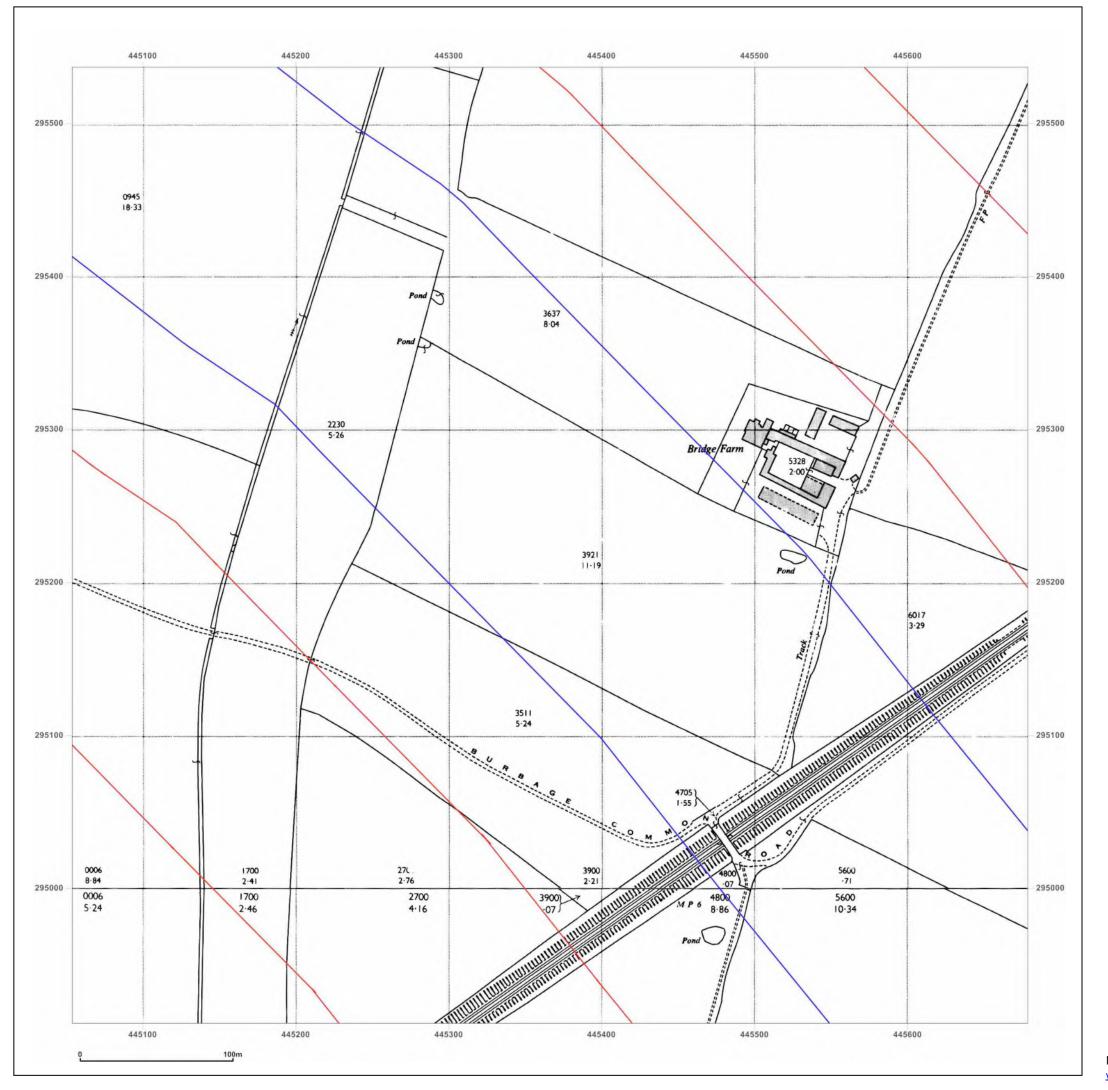




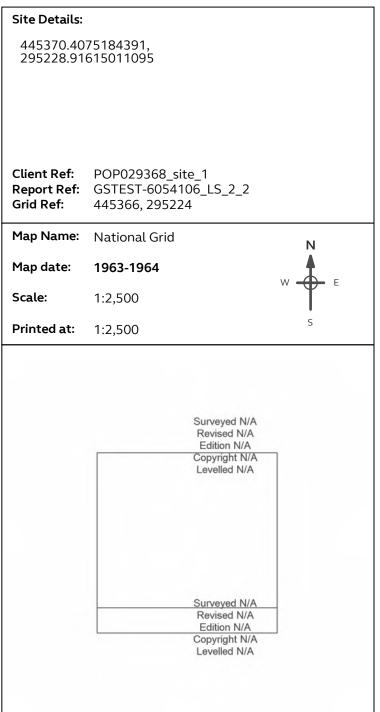
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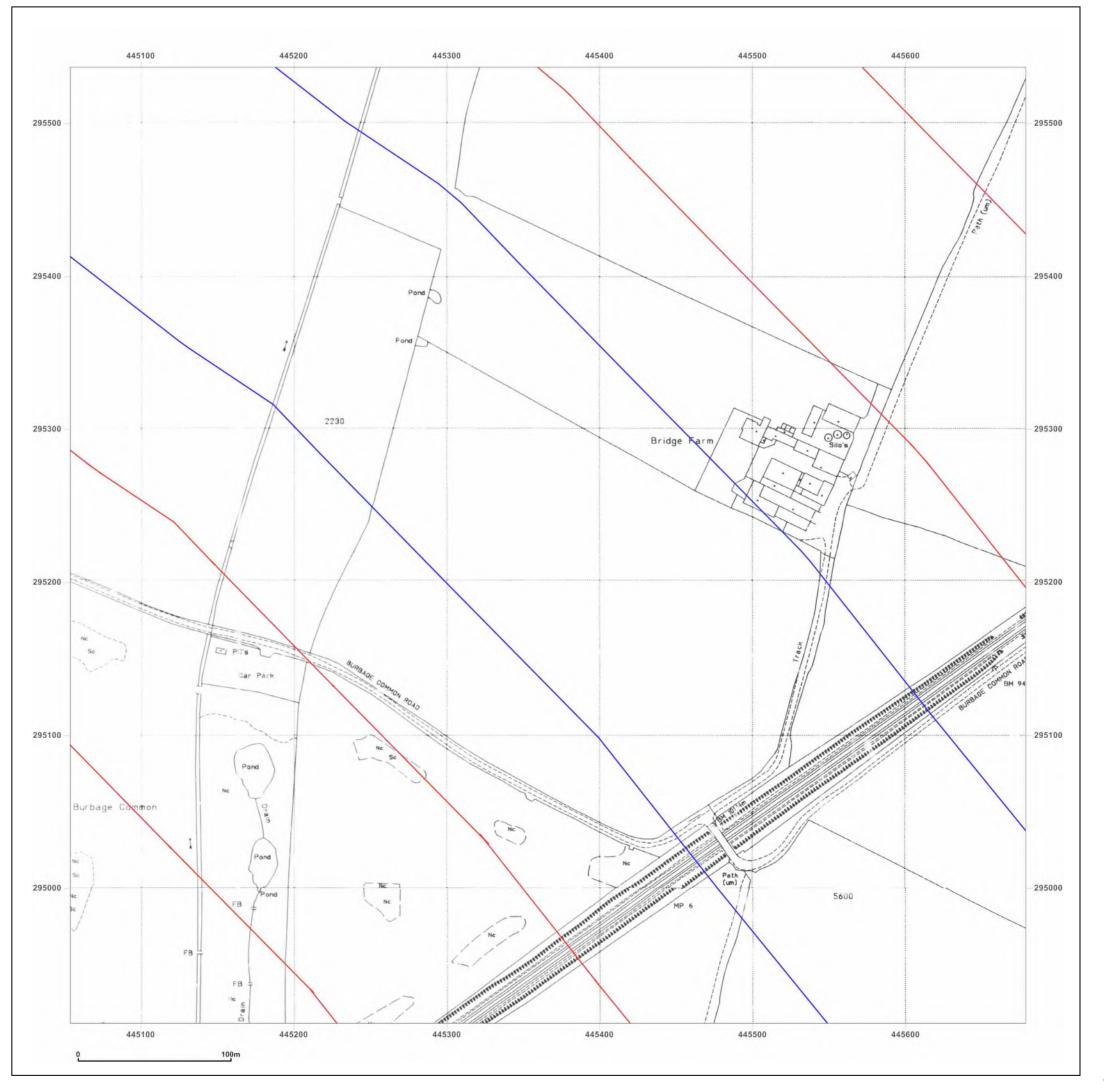




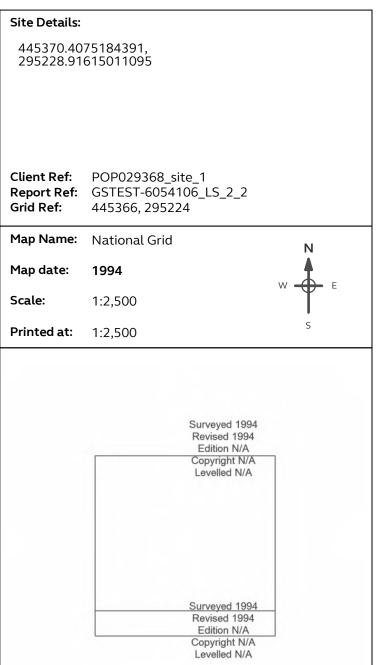
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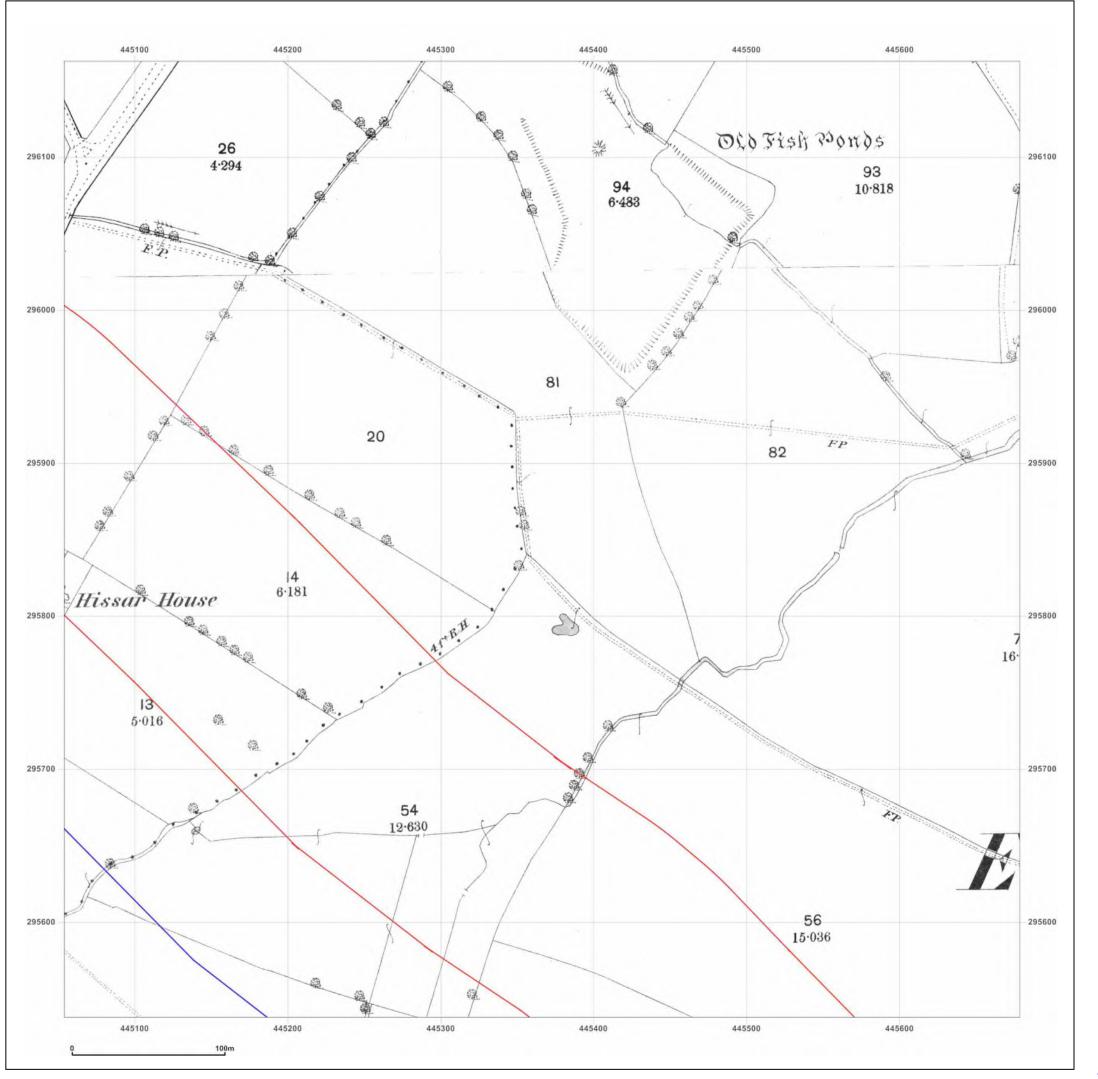




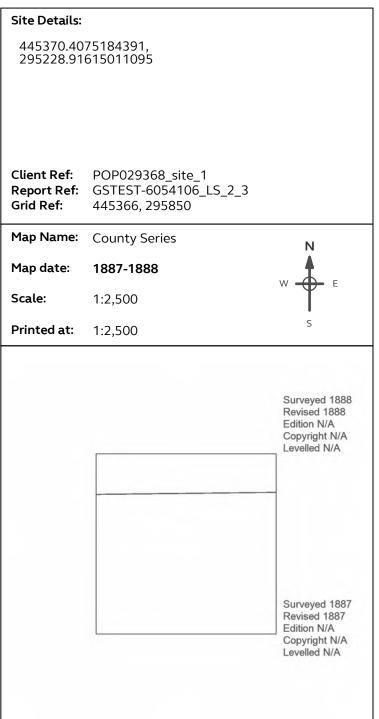
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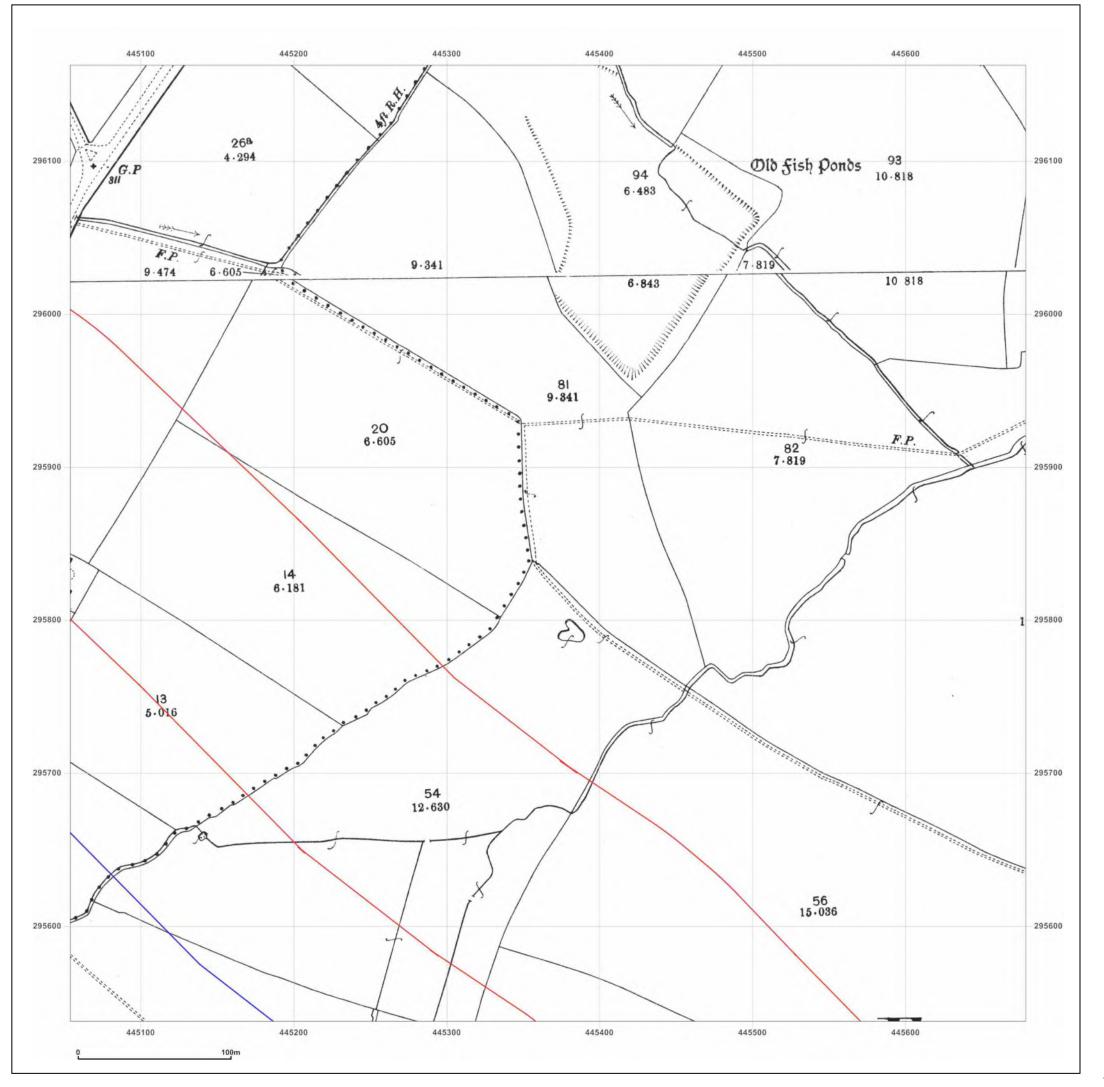




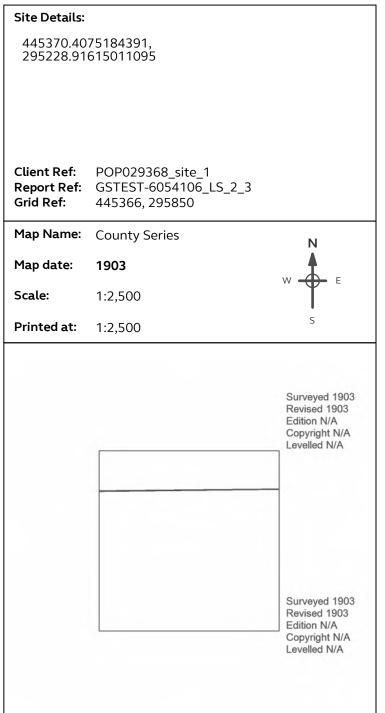
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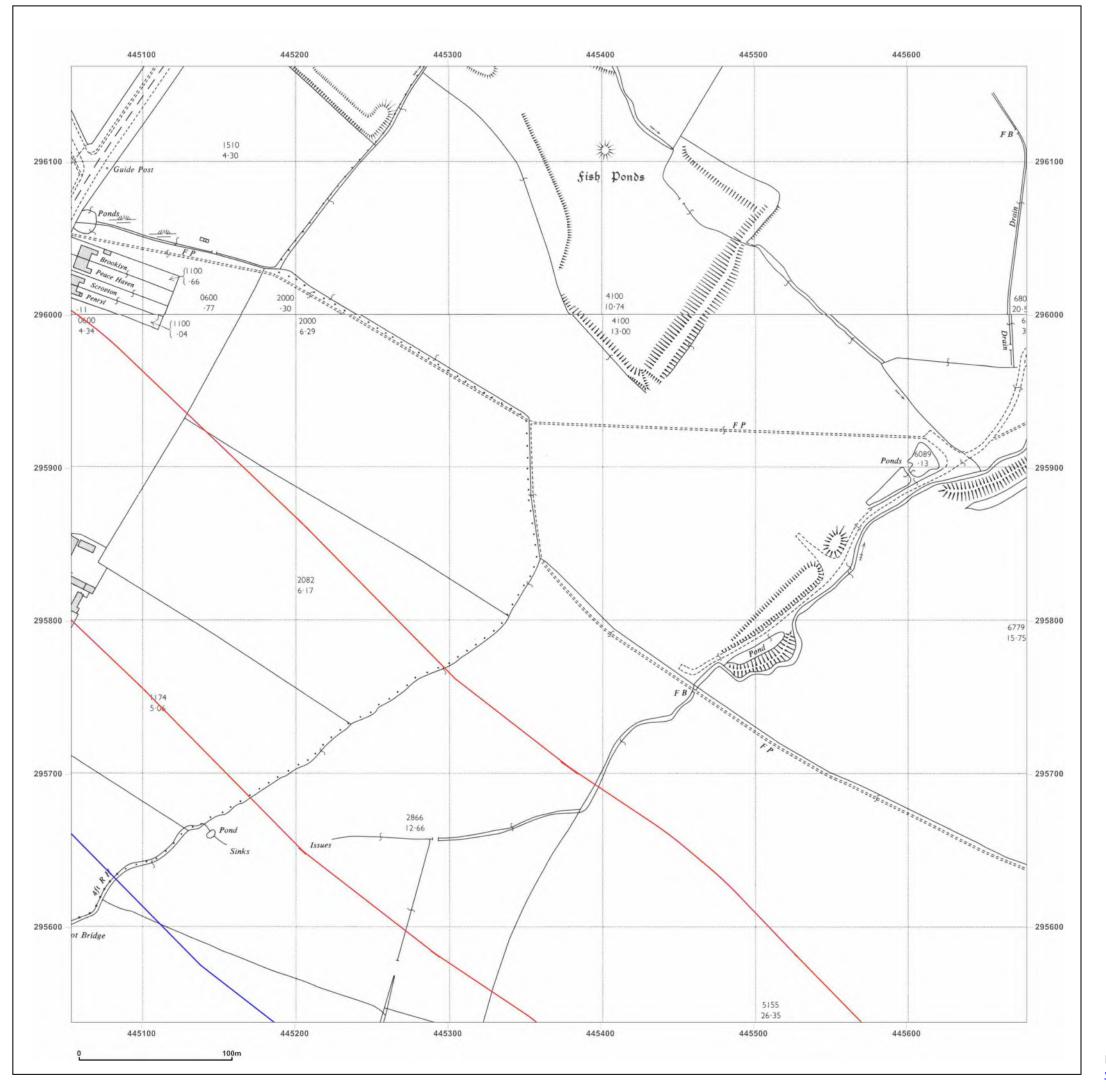




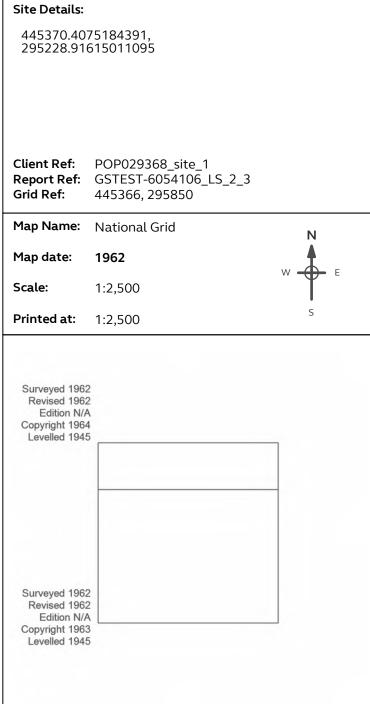
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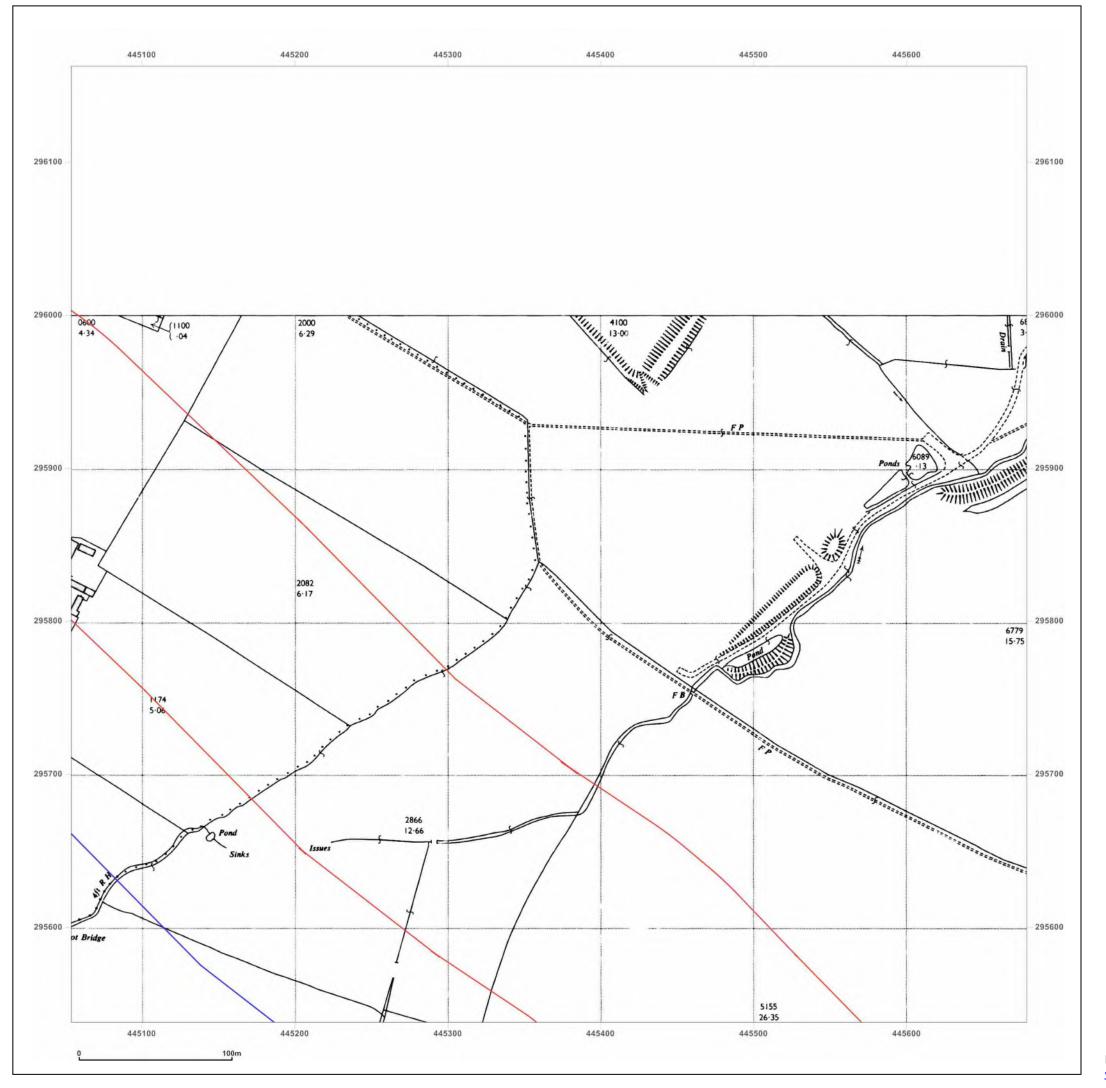




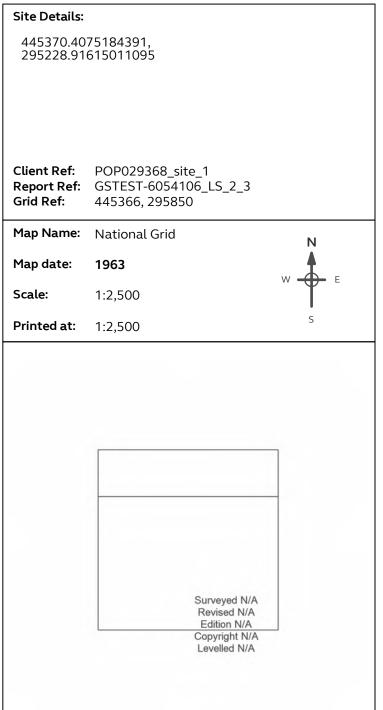
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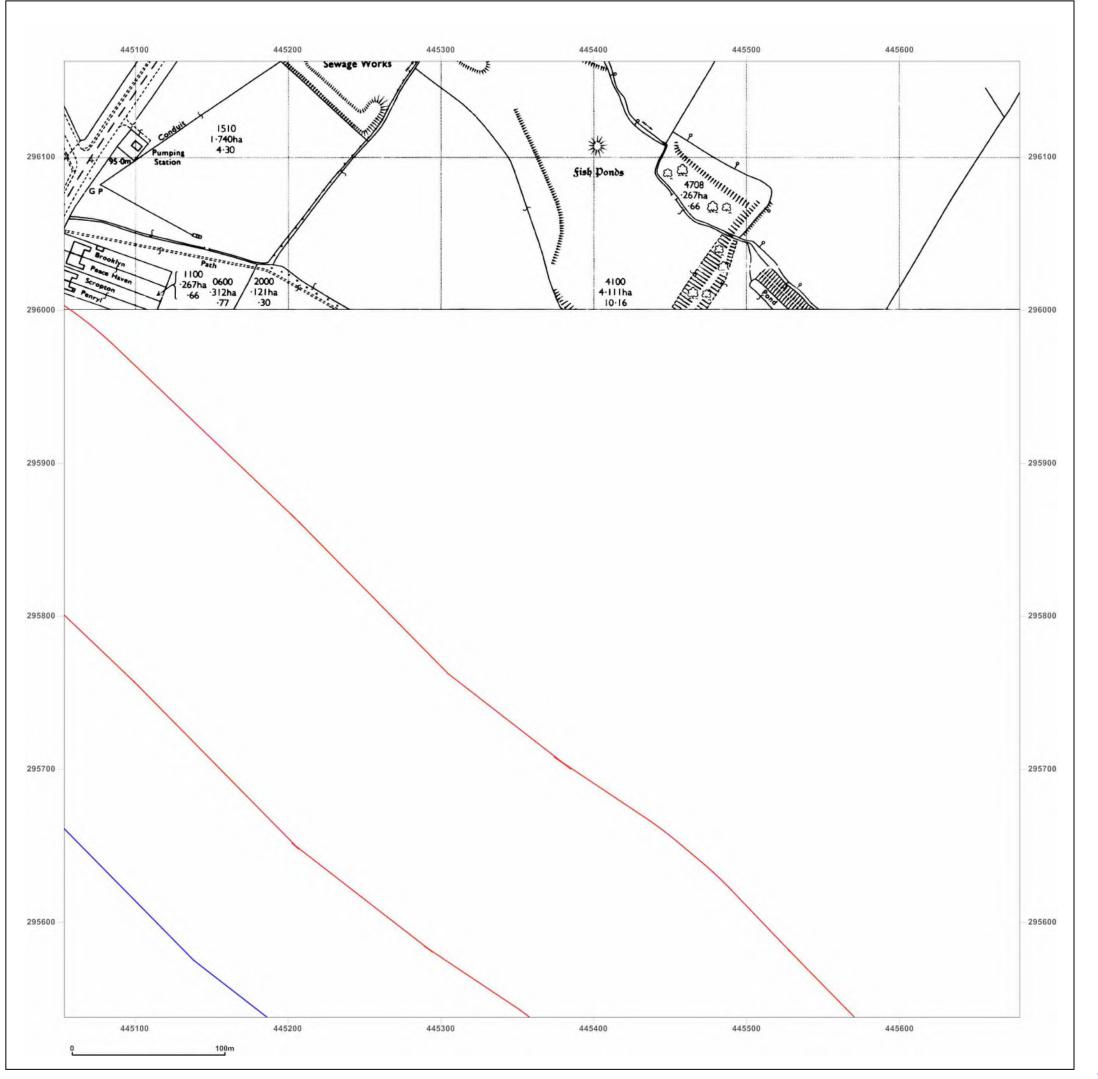




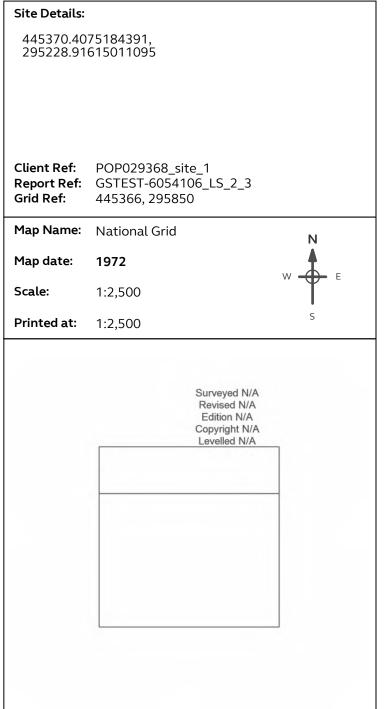
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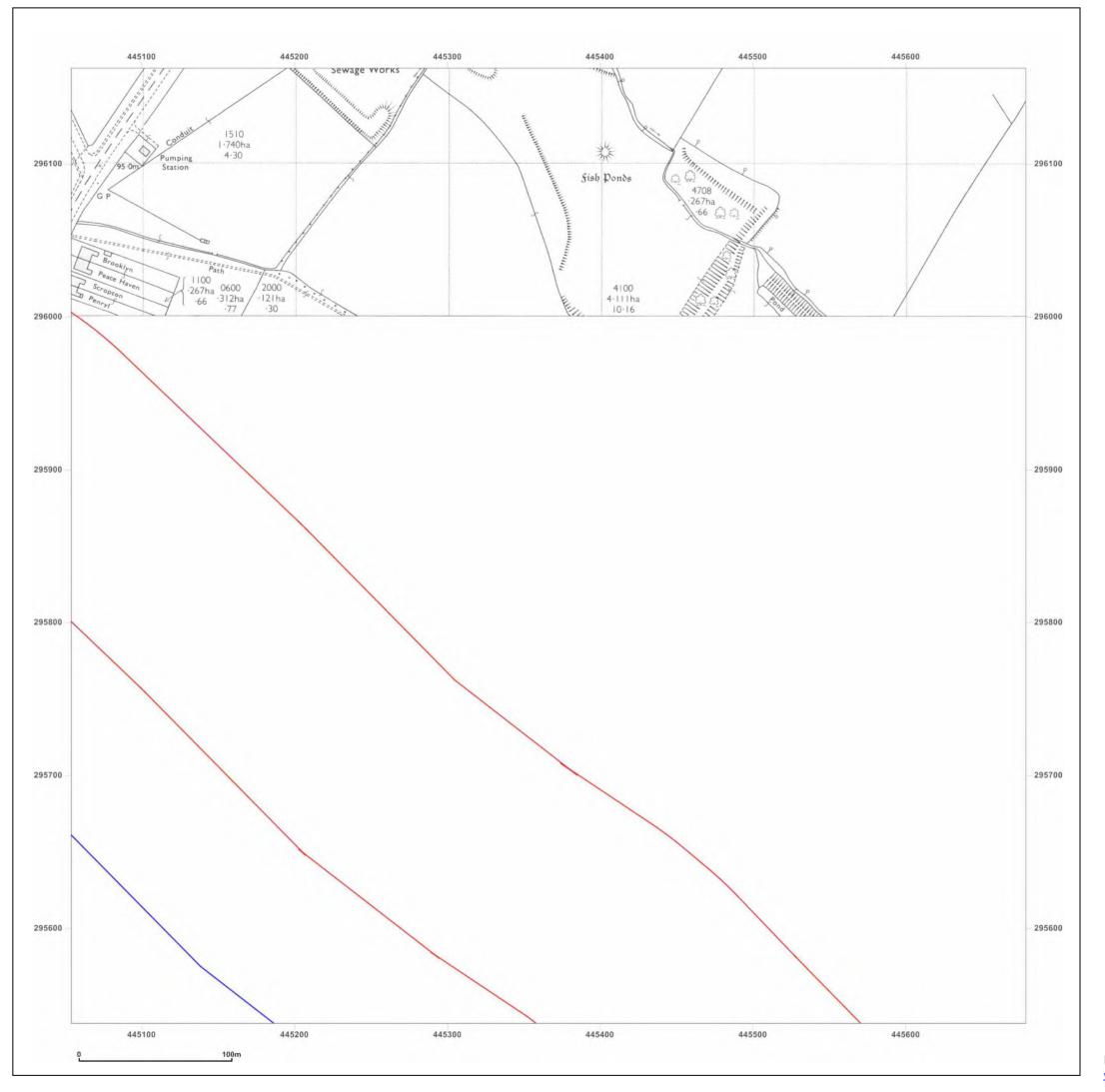




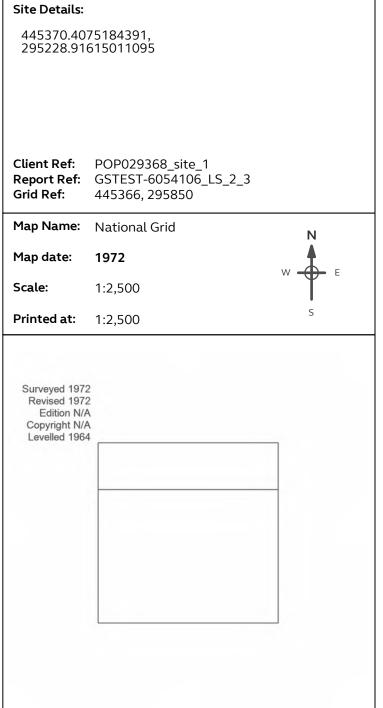
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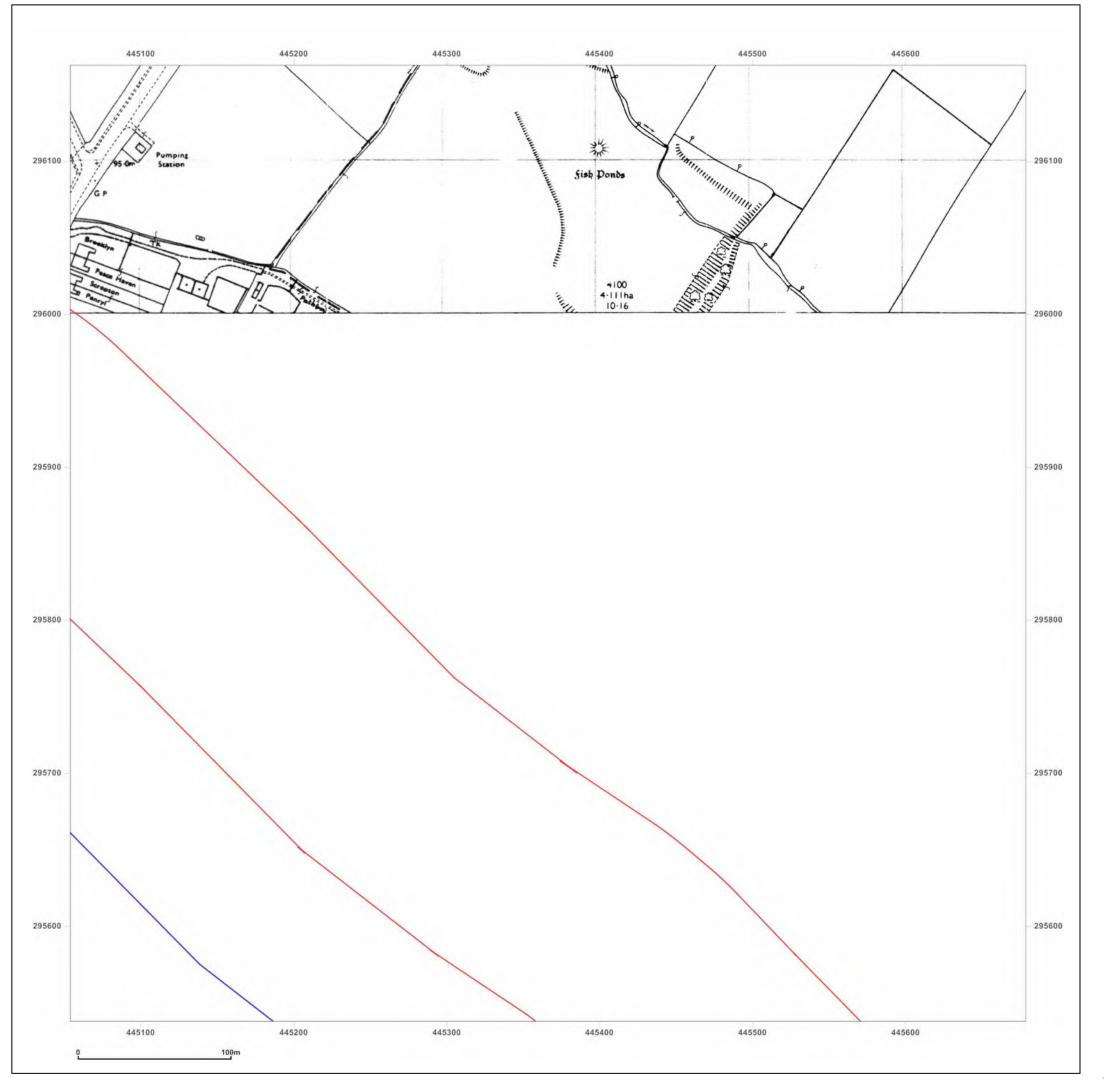




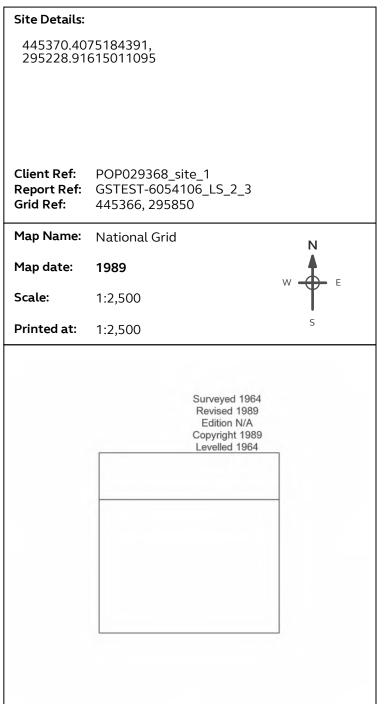
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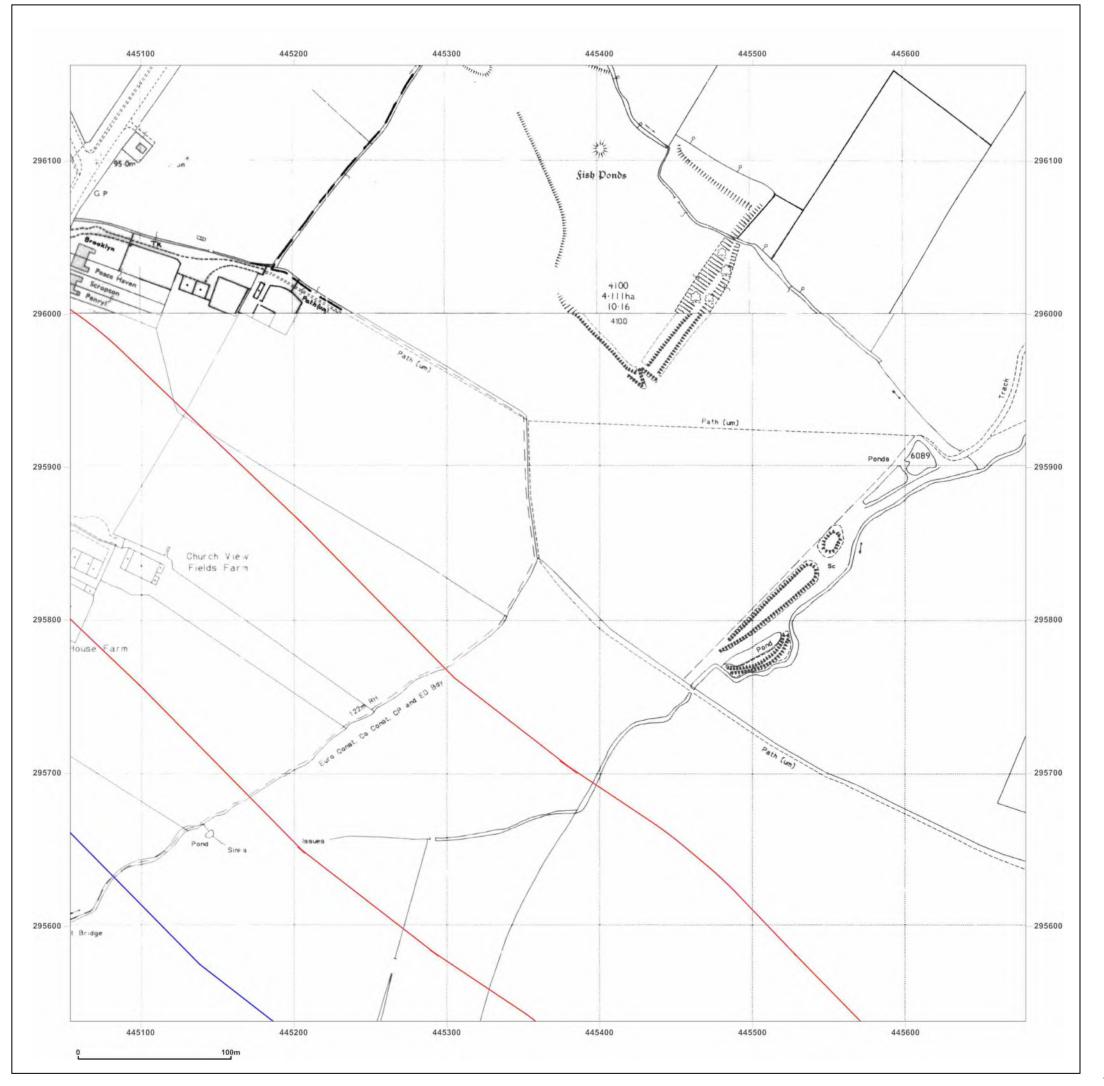




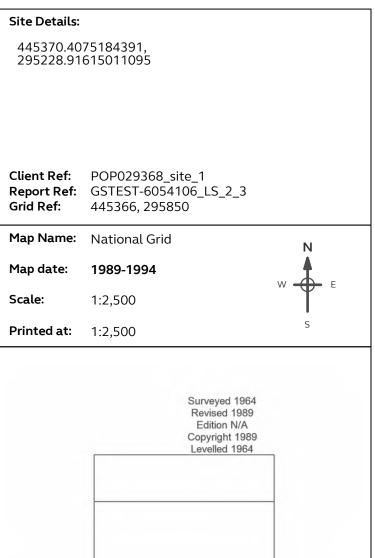
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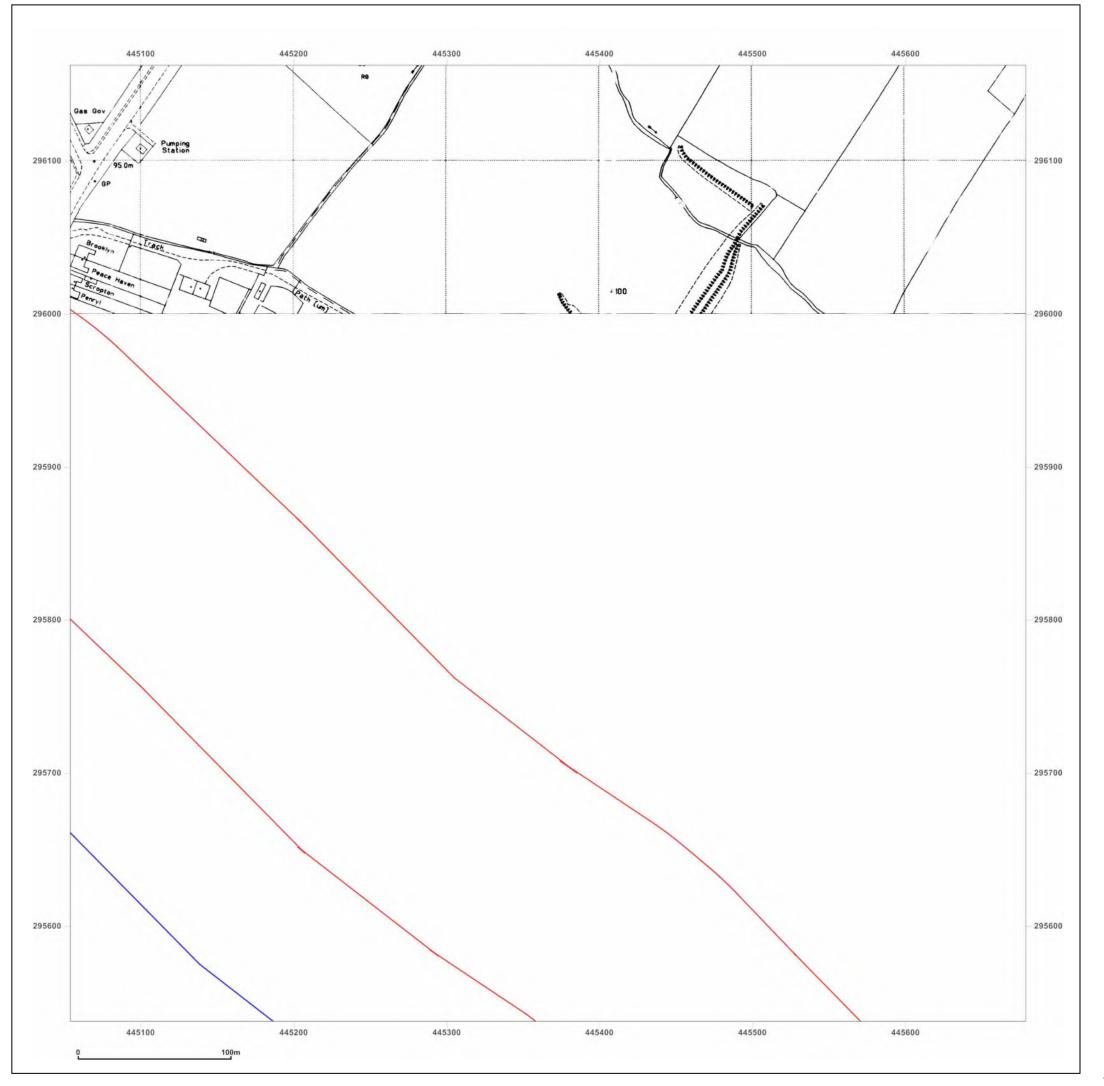
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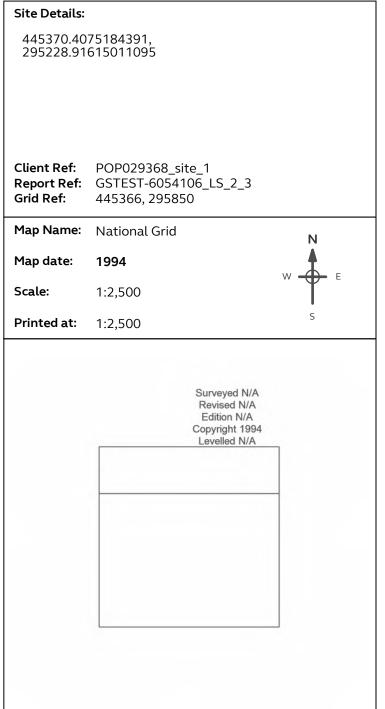
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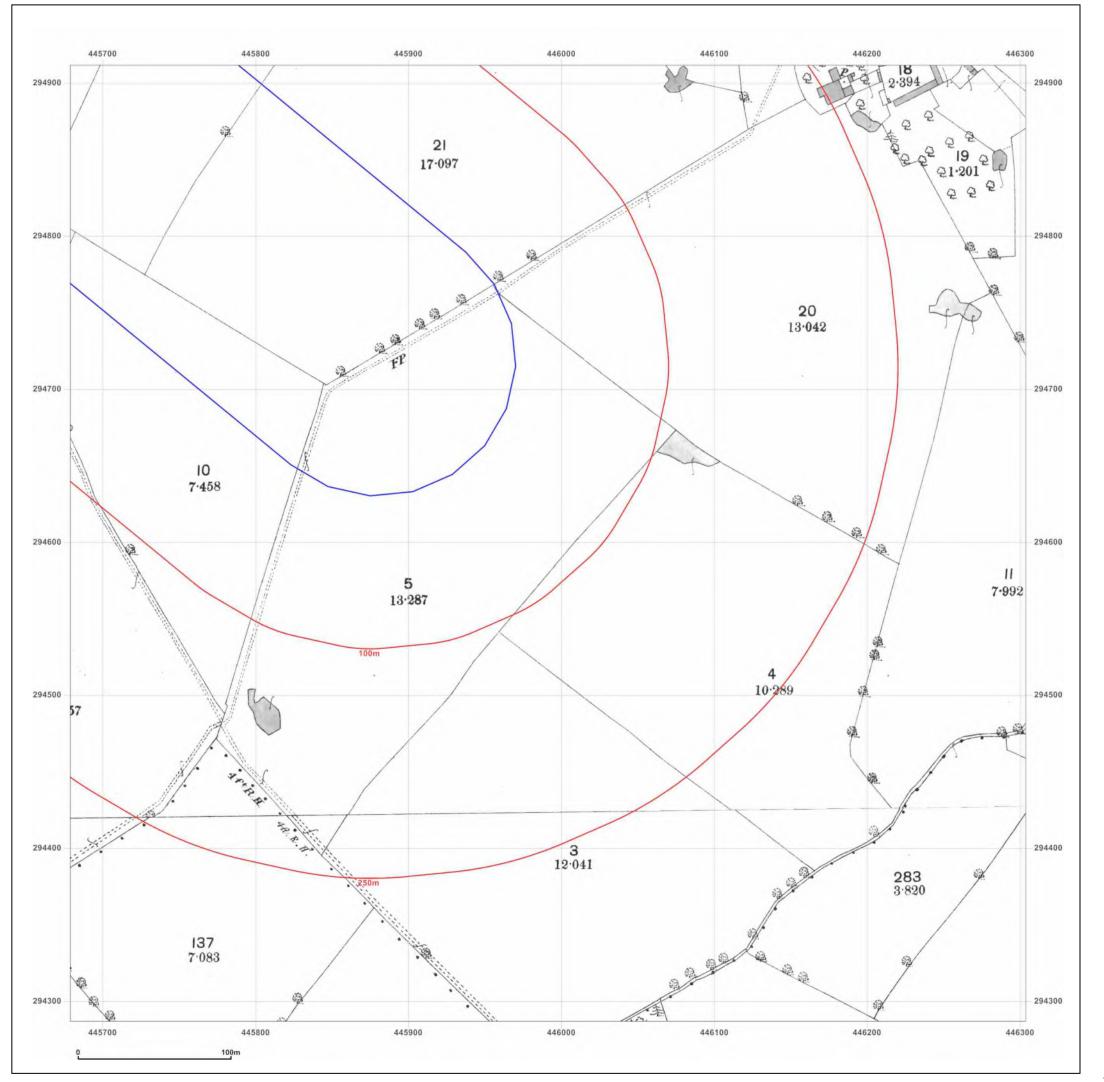




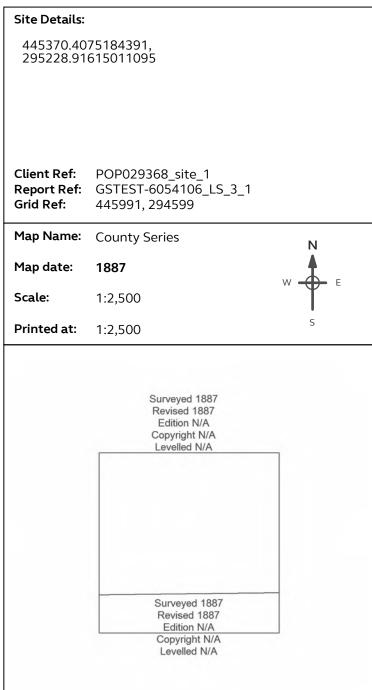
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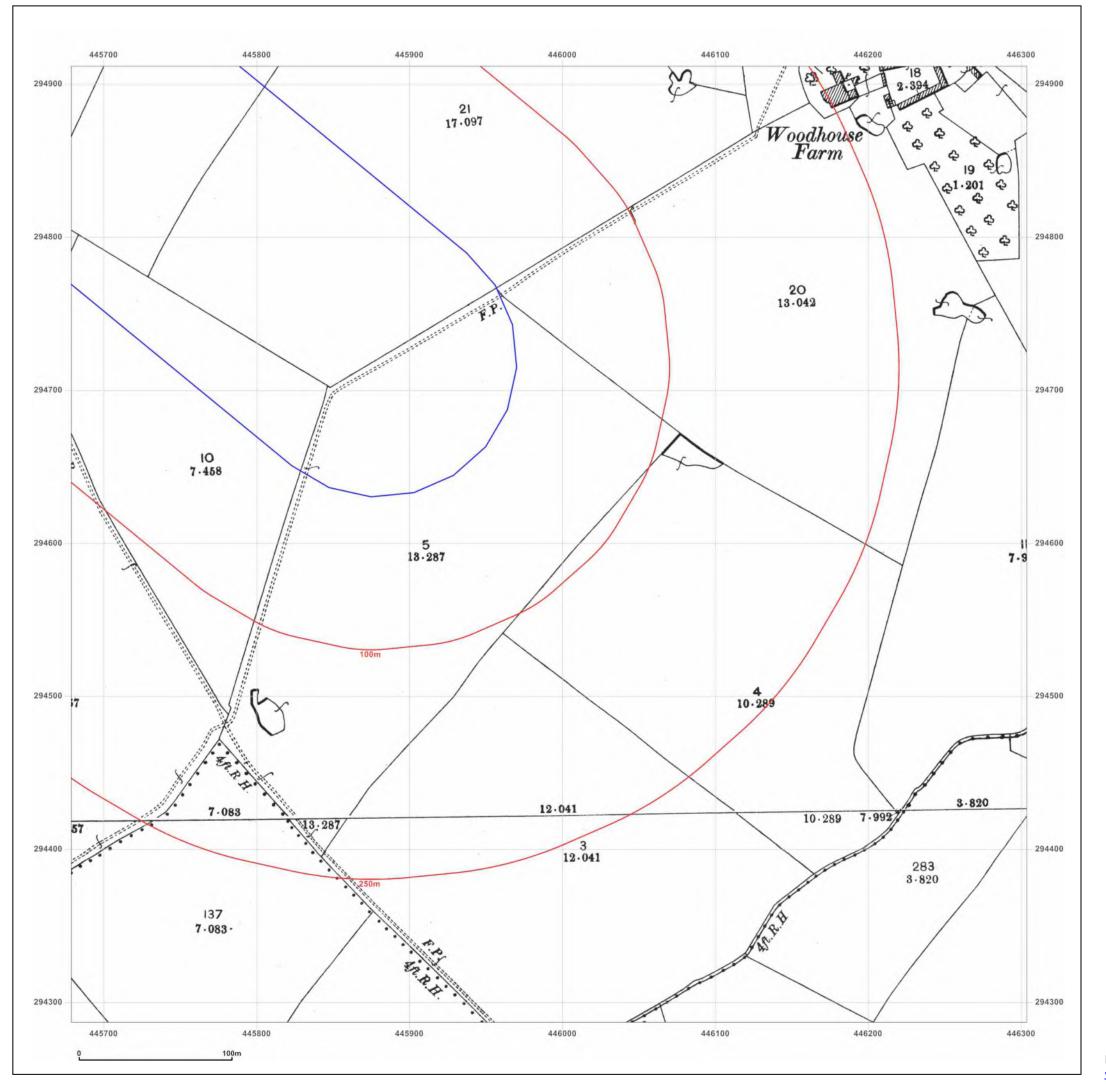




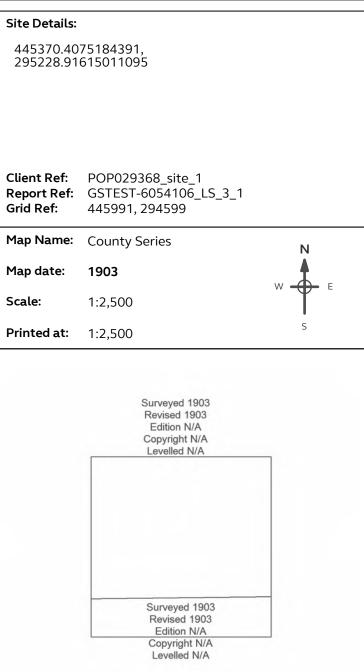
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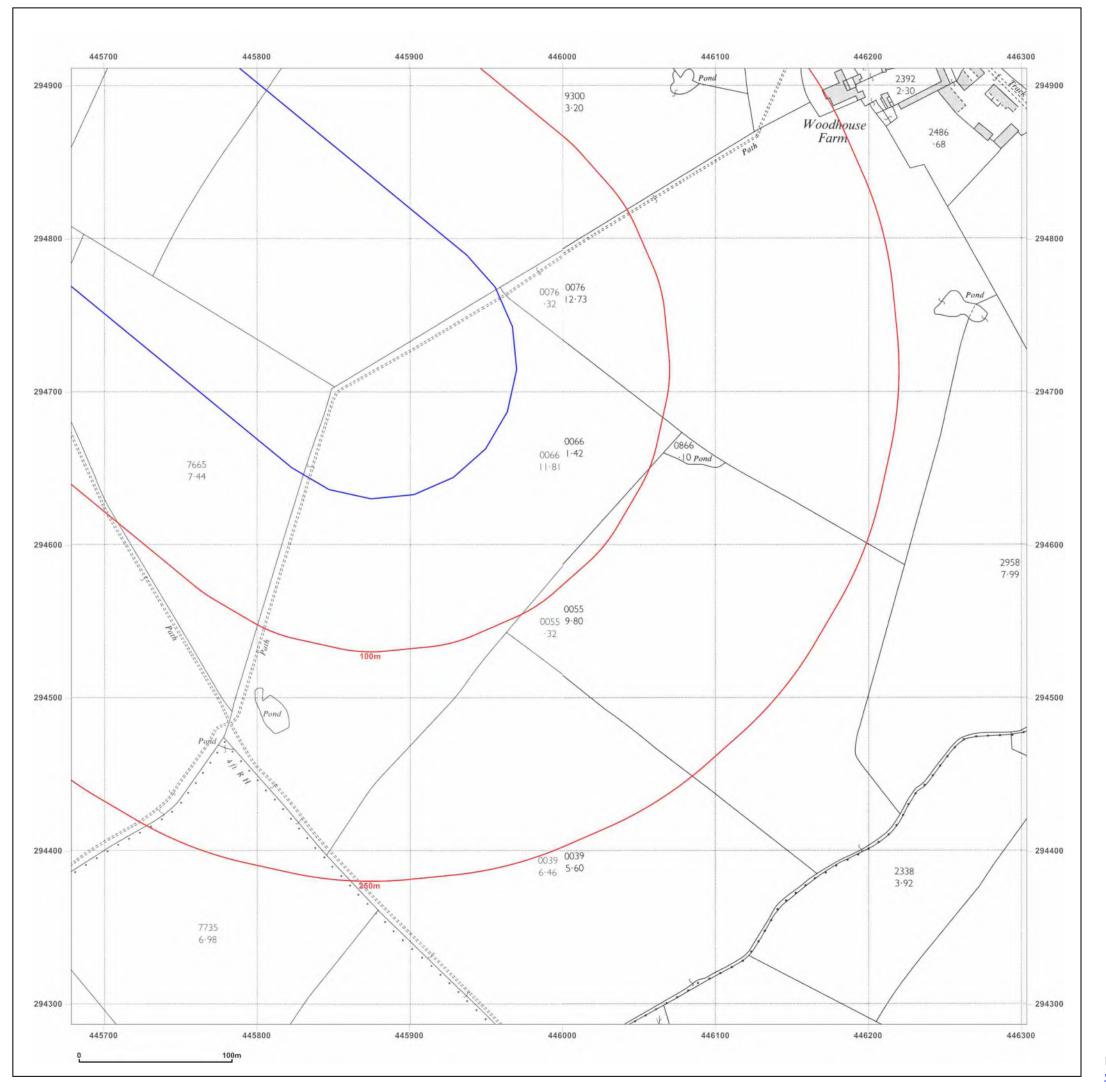




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Map legend available at:





Site Details: 445370.4075184391, 295228.91615011095

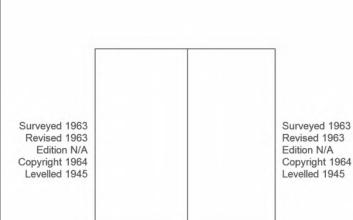
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Report Ref: GSTEST-6054106_LS_3_1
Grid Ref: 445991, 294599

Map Name: National Grid

Map date: 1963

Scale: 1:2,500

Printed at: 1:2,500



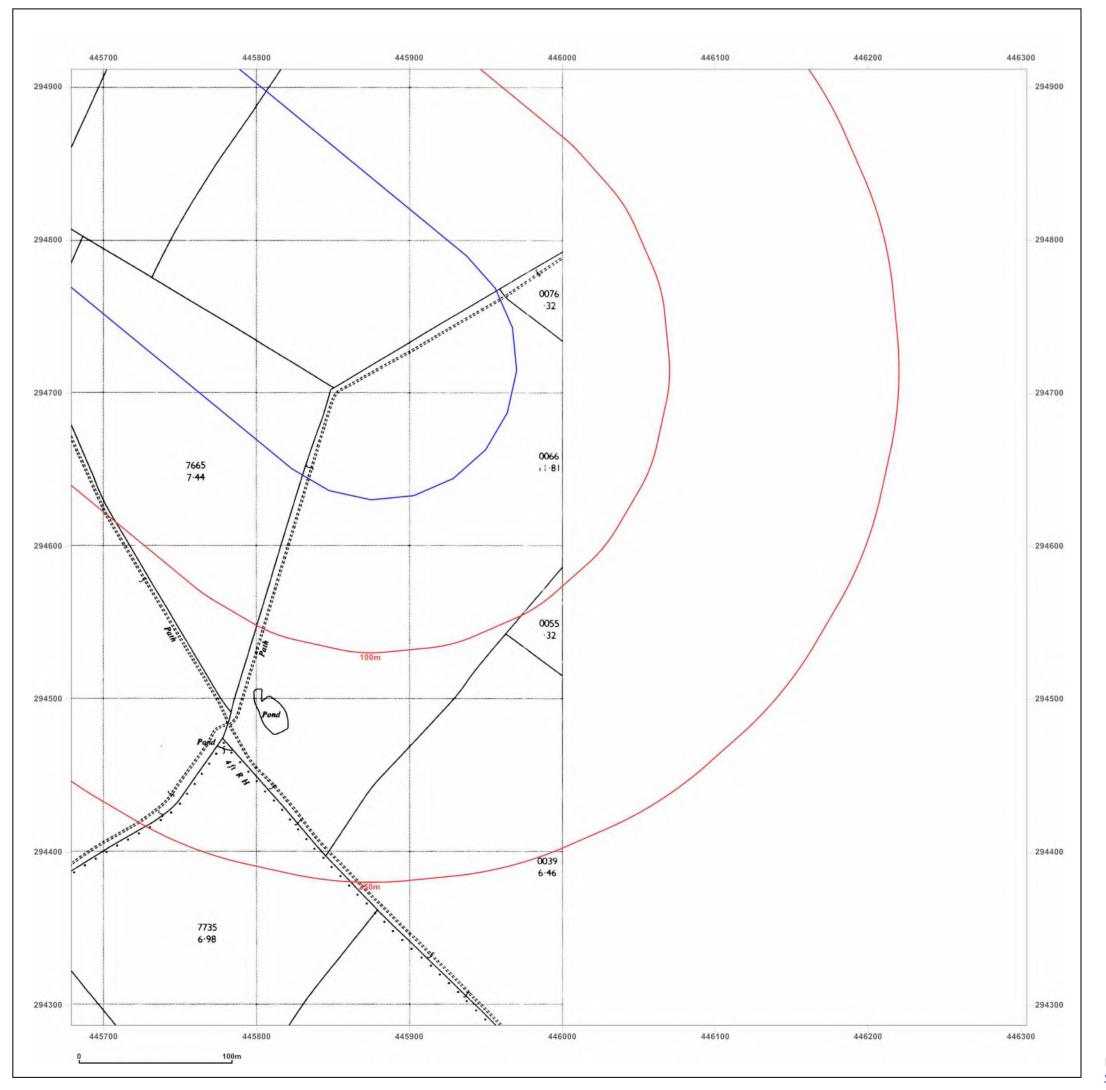


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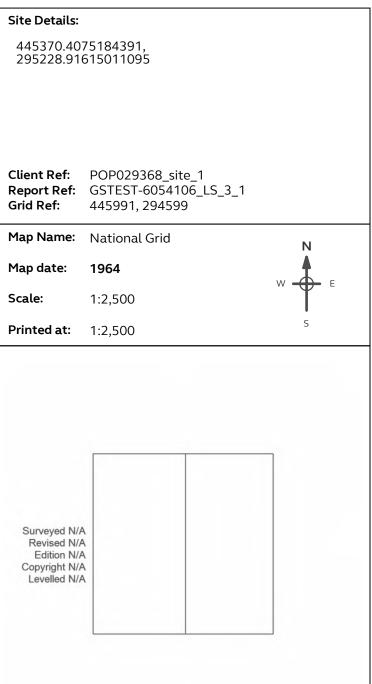
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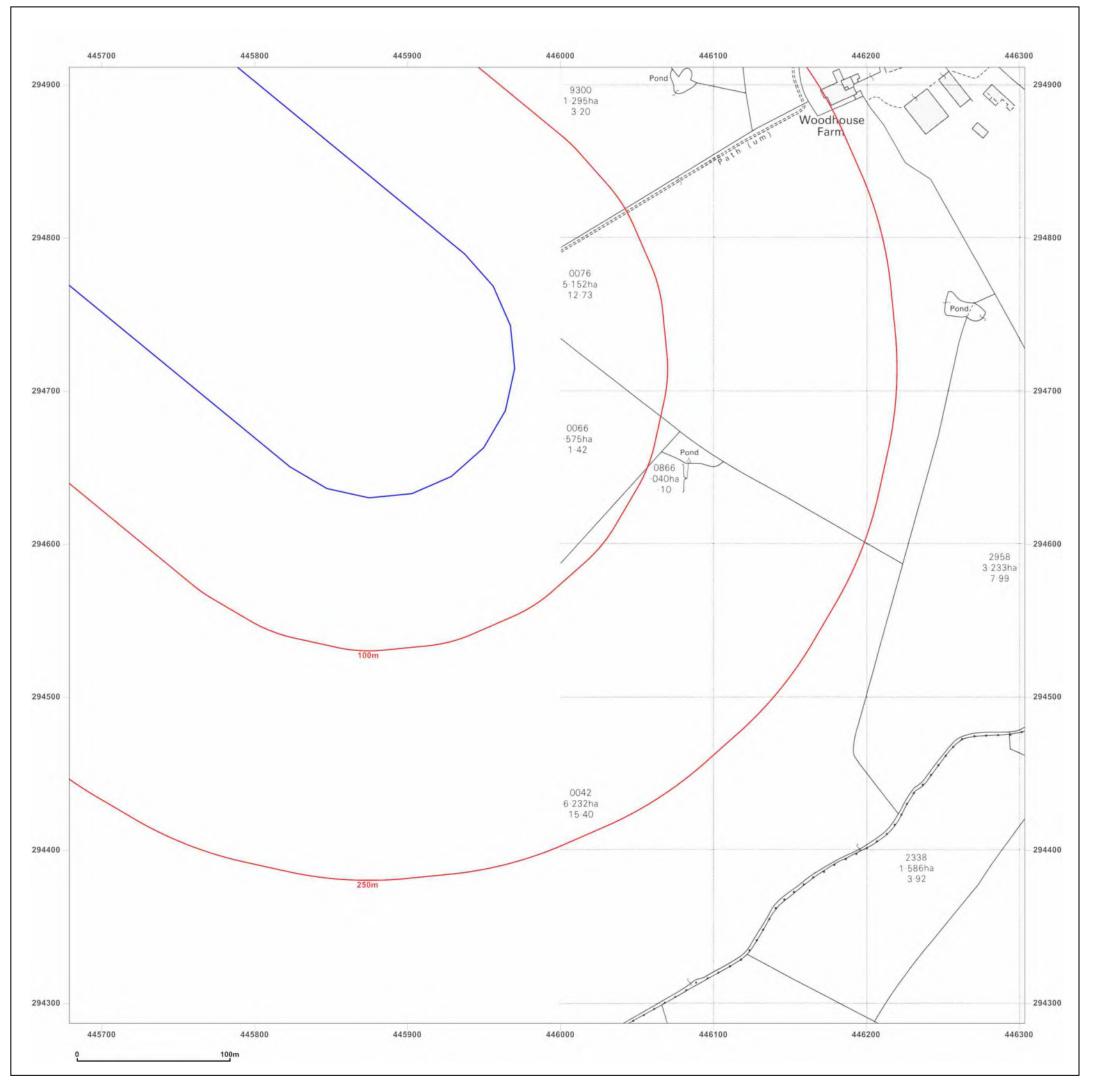




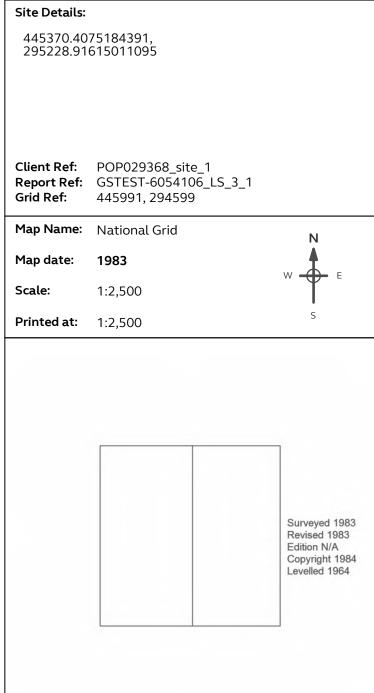
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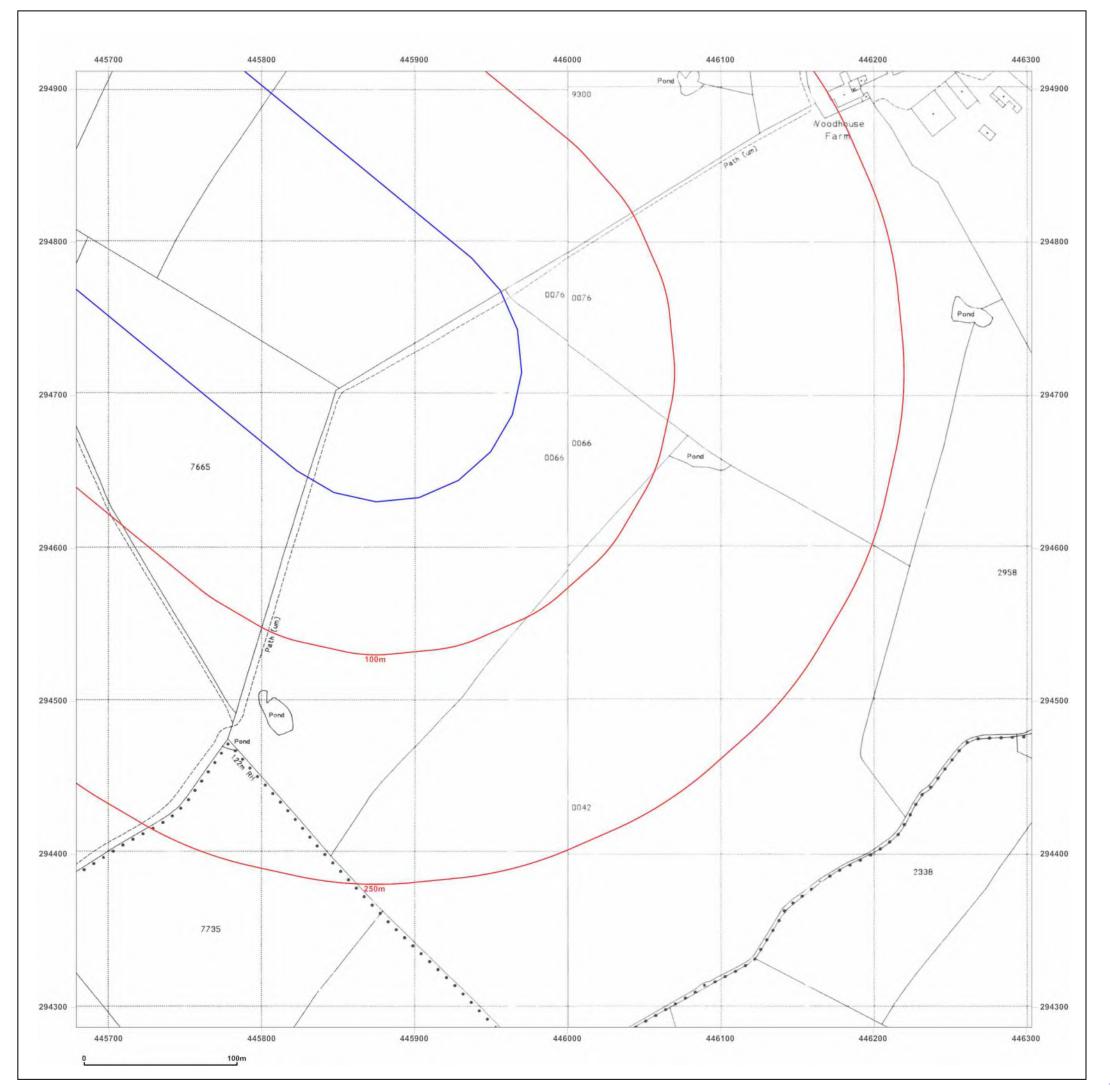




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Production date: 24 May 2019

Map legend available at:





445370.4075184391, 295228.91615011095

 Client Ref:
 POP029368_site_1

 Report Ref:
 GSTEST-6054106_LS_3_1

 Grid Ref:
 445991, 294599

Map Name: National Grid

Map date: 1994

Scale:

1:2,500

Printed at: 1:2,500

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

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

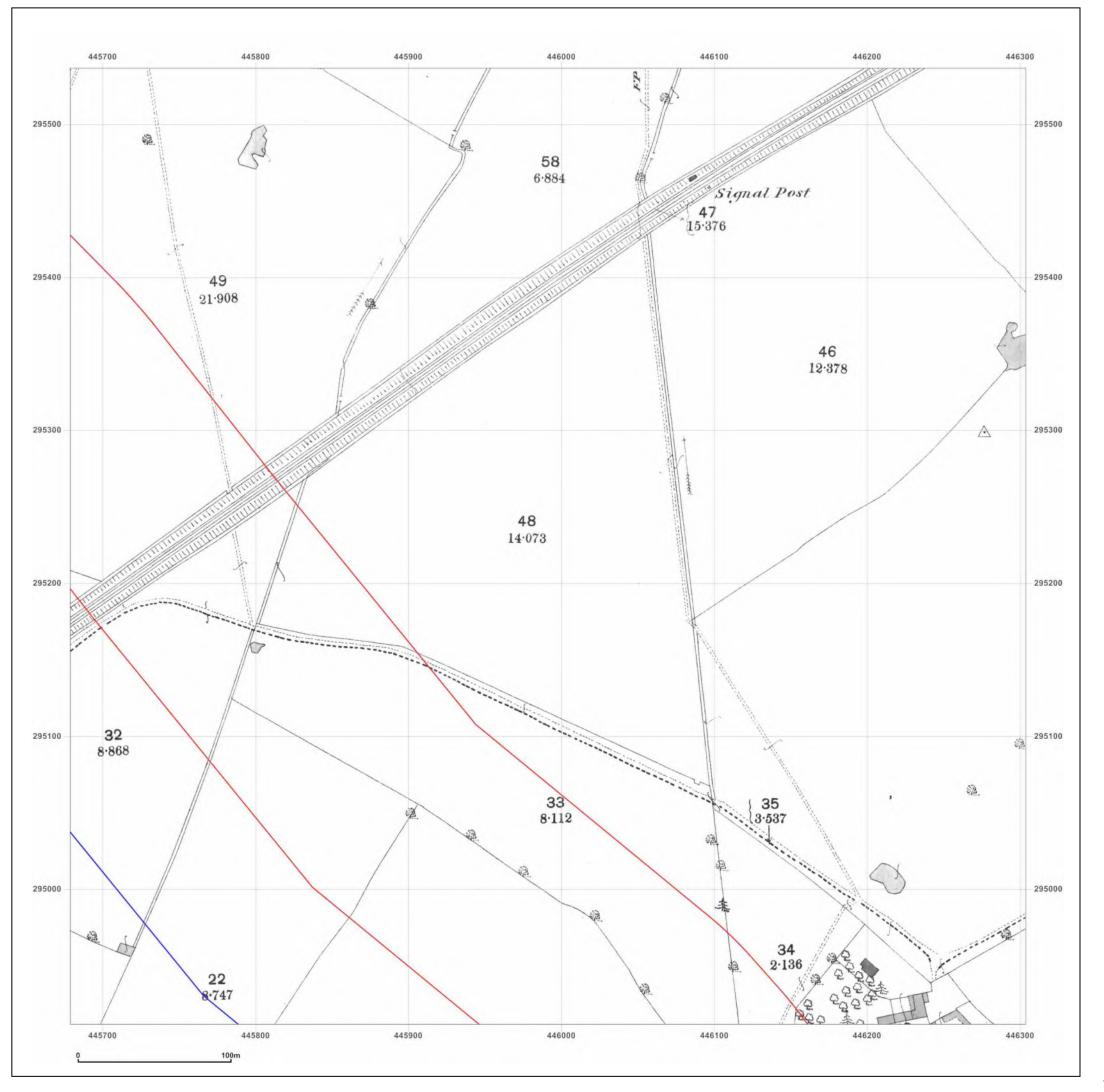


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Production date: 24 May 2019

Map legend available at:





445370.4075184391, 295228.91615011095

Client Ref: POP029368_site_1
Report Ref: GSTEST-6054106_LS_3_2

Grid Ref: 445991, 295224

Map Name: County Series

Map date: 1887

Scale: 1:2,500

Printed at: 1:2,500

Surveyed 1887 Revised 1887 Edition N/A Copyright N/A Levelled N/A

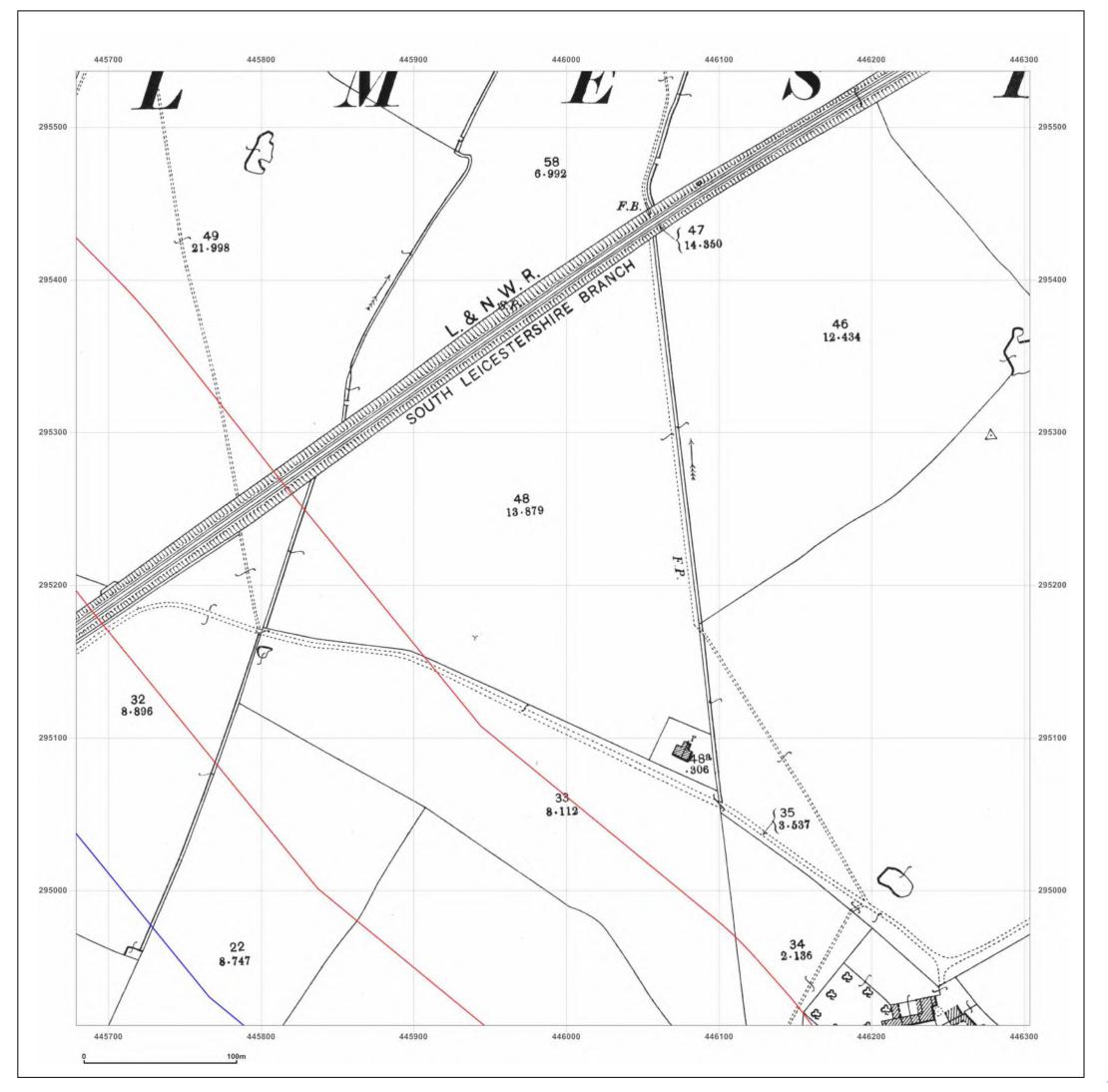


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Production date: 24 May 2019

Map legend available at:





445370.4075184391, 295228.91615011095

Client Ref: POP029368_site_1
Report Ref: GSTEST-6054106_LS_3_2

Grid Ref: 445991, 295224

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

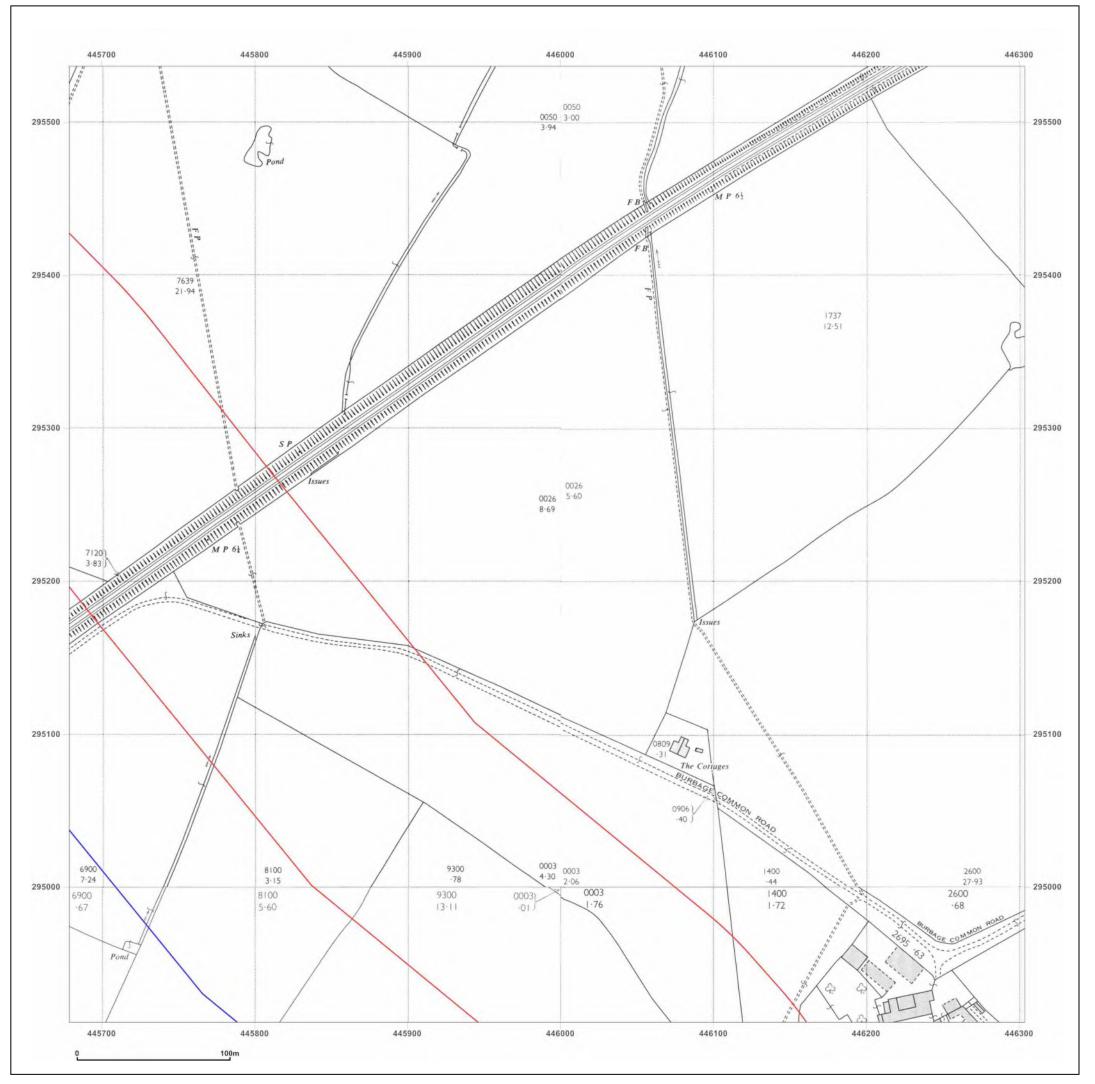


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Production date: 24 May 2019

Map legend available at:





Site Details: 445370.4075184391, 295228.91615011095 Client Ref: POP029368_site_1 **Report Ref:** GSTEST-6054106_LS_3_2 445991, 295224 **Grid Ref:** Map Name: National Grid 1962-1963 Map date: 1:2,500 Scale: **Printed at:** 1:2,500 Surveyed 1962 Surveyed 1962 Revised 1962 Revised 1962 Edition N/A Edition N/A Copyright 1963 Copyright 1963 Levelled 1945 Levelled 1945 Surveyed 1963 Surveyed 1963 Revised 1963 Revised 1963 Edition N/A Edition N/A Copyright 1964 Copyright 1964 Levelled 1945 Levelled 1945

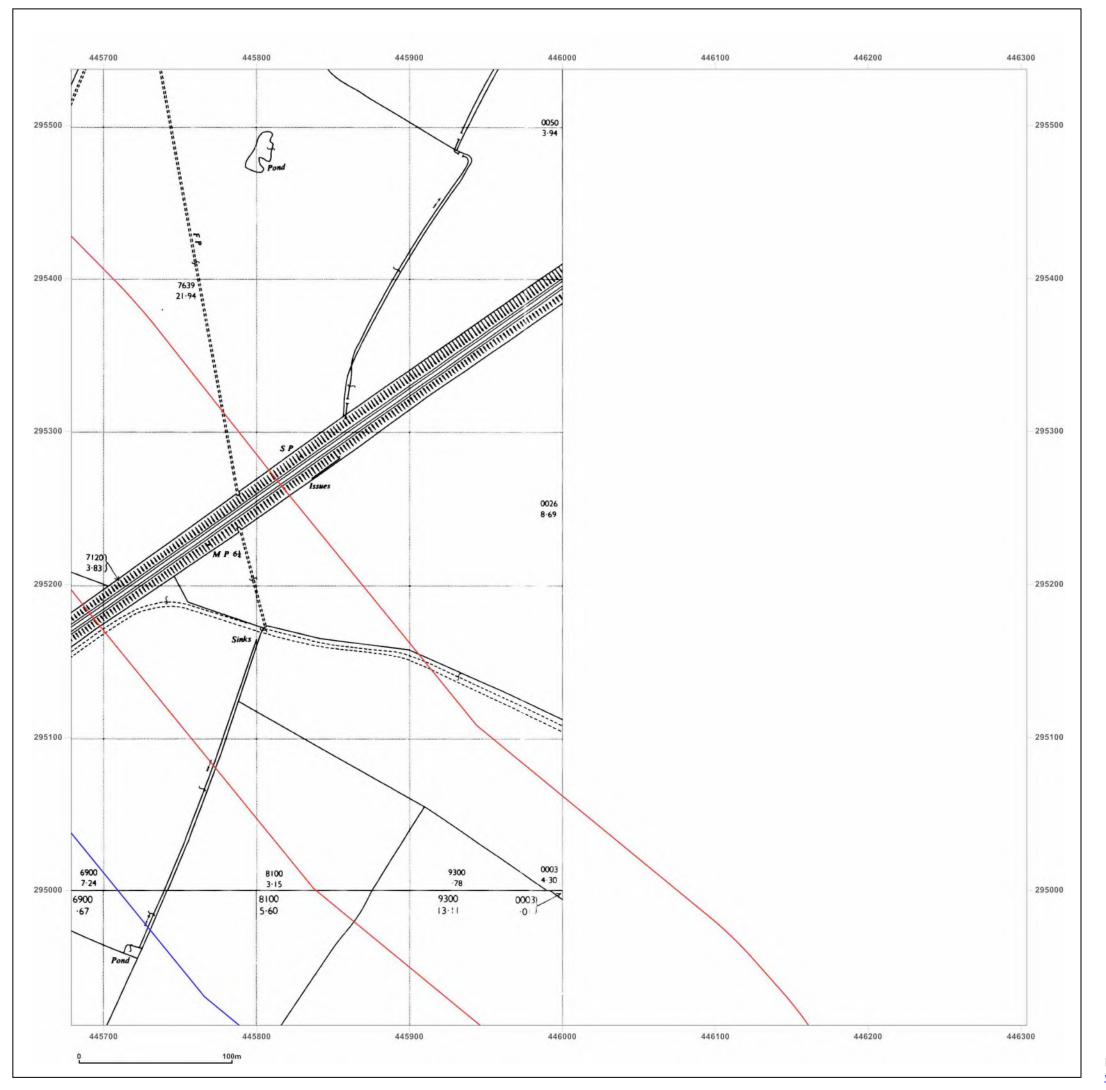


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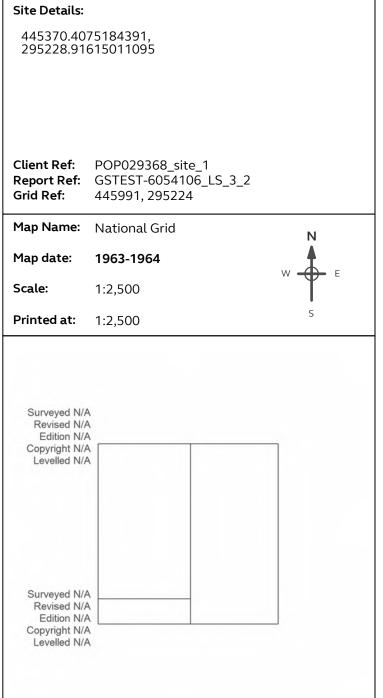
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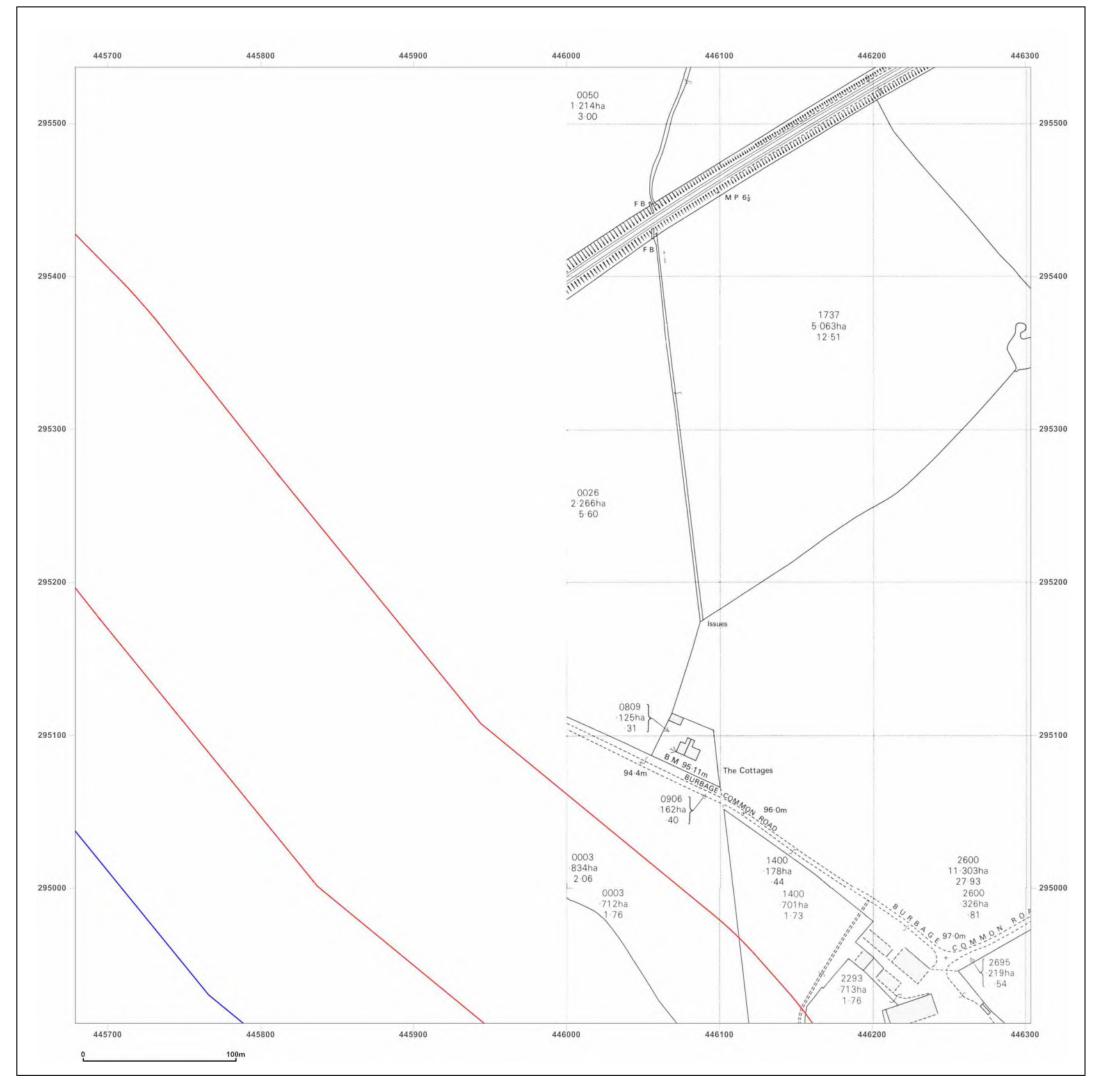




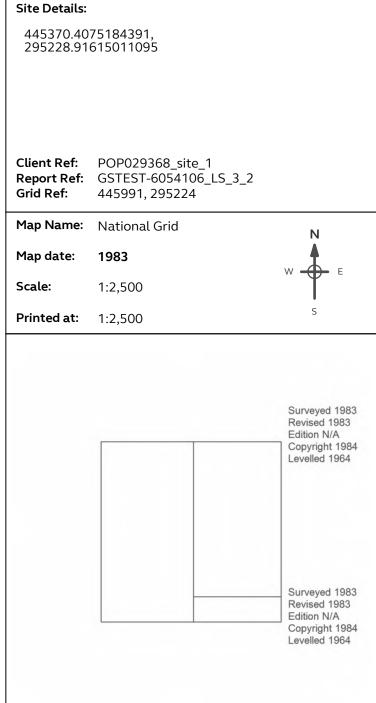
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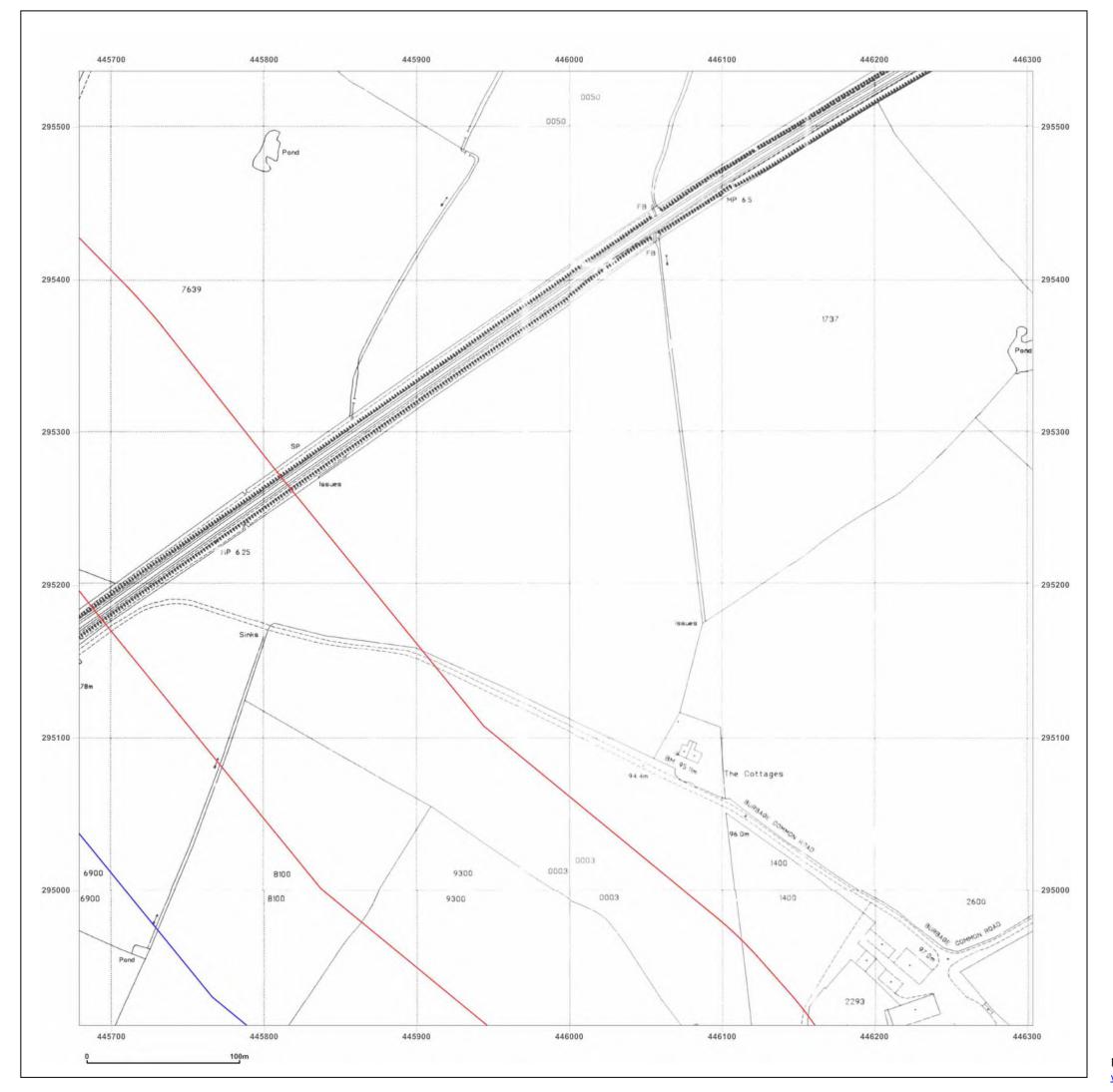




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Site Details:

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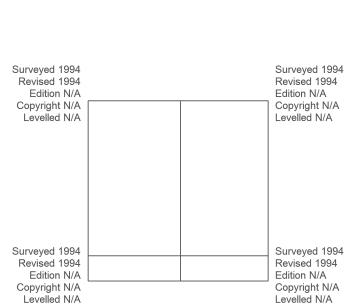
Grid Ref: 445991, 295224

Map Name: National Grid

Map date: 1994

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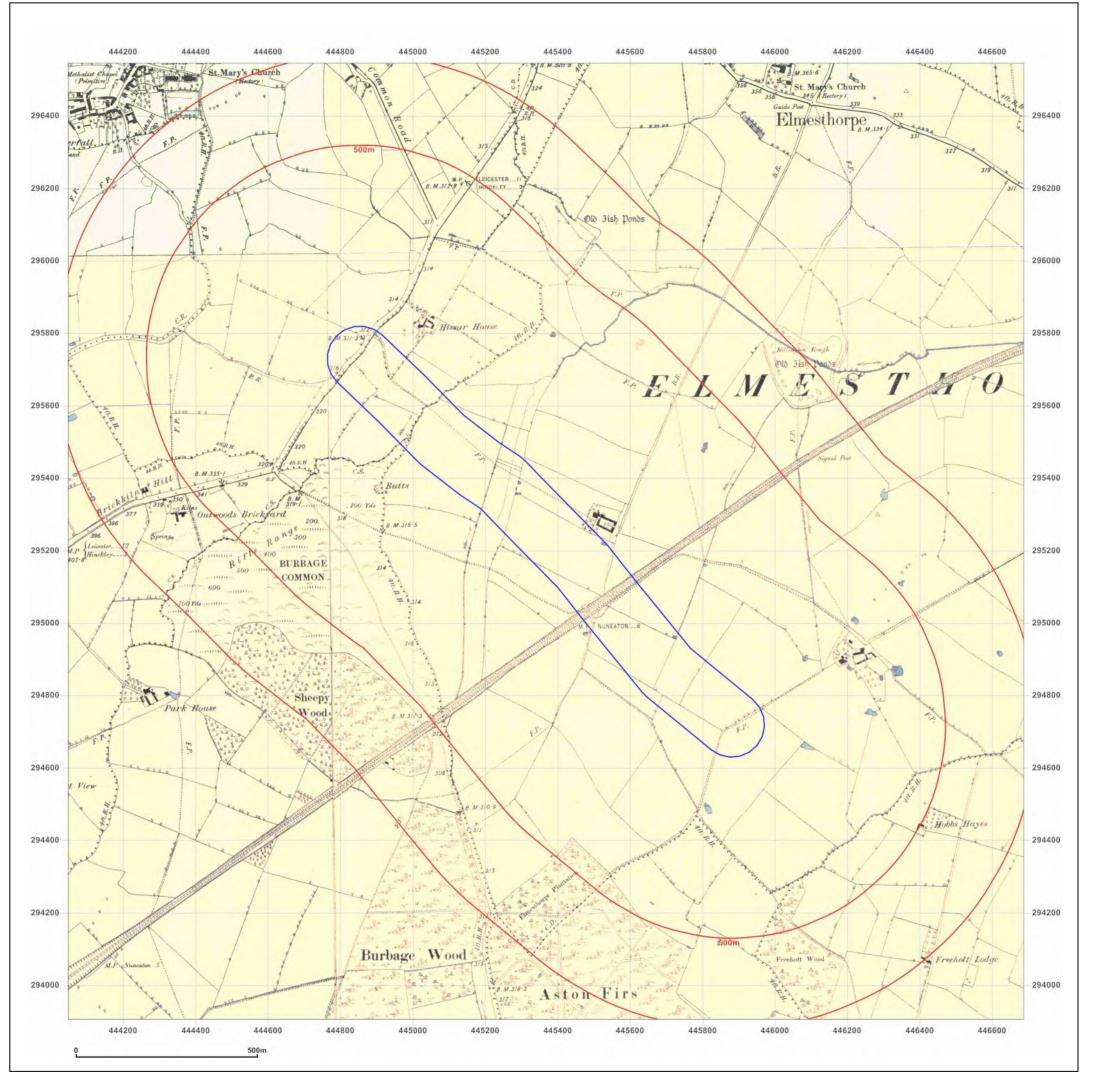


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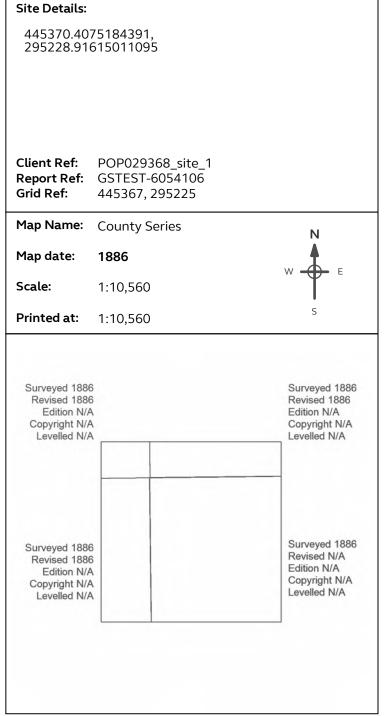
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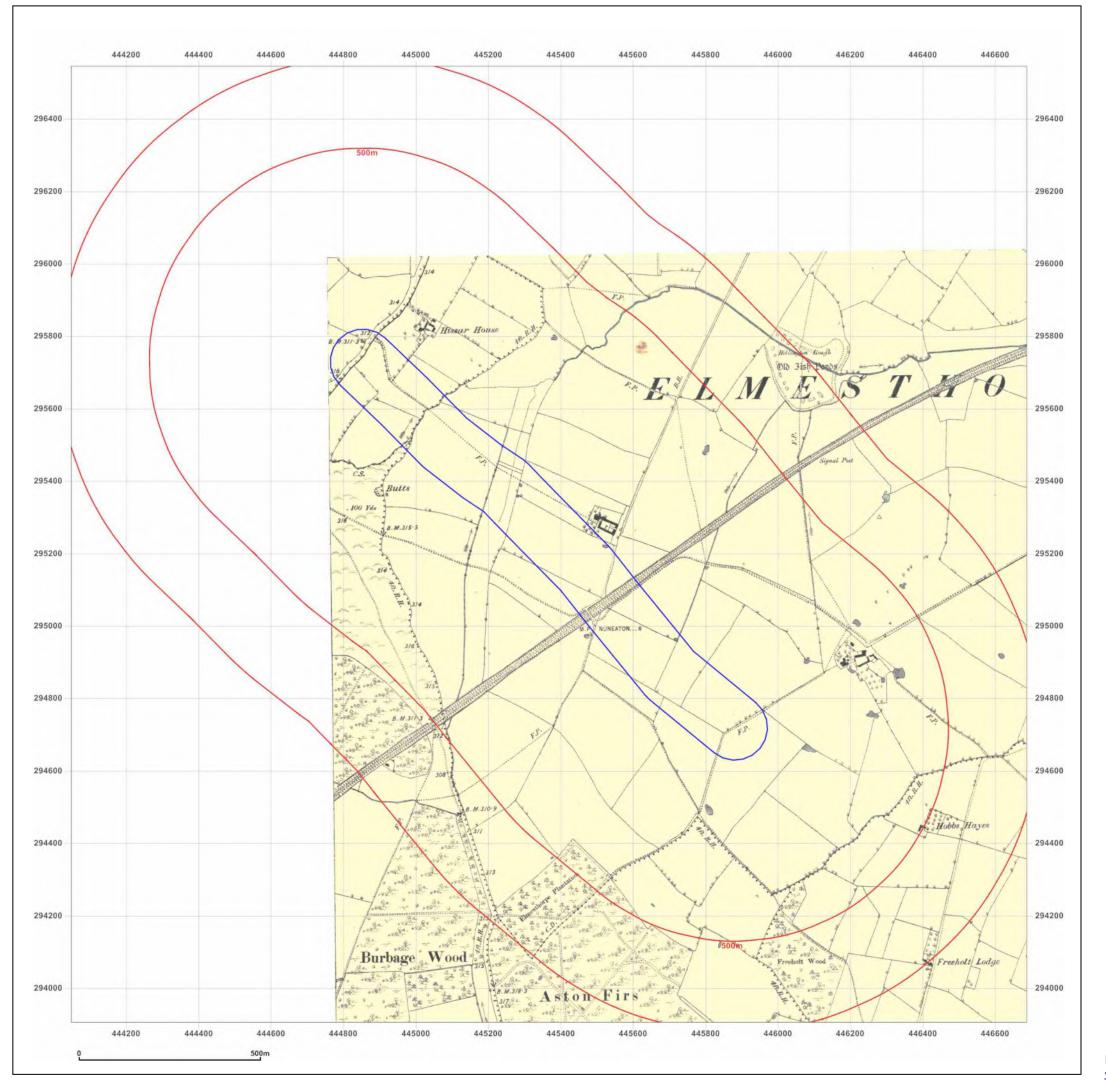




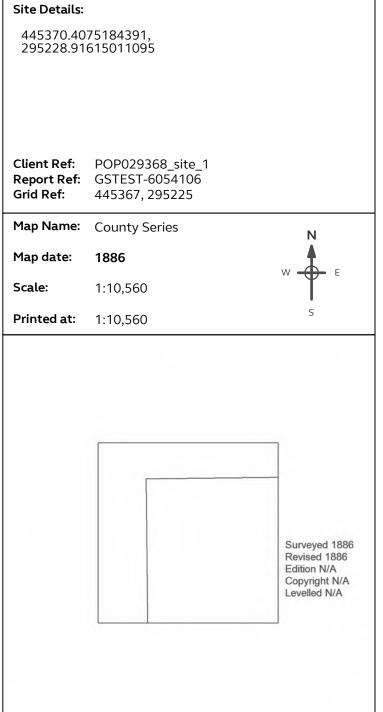
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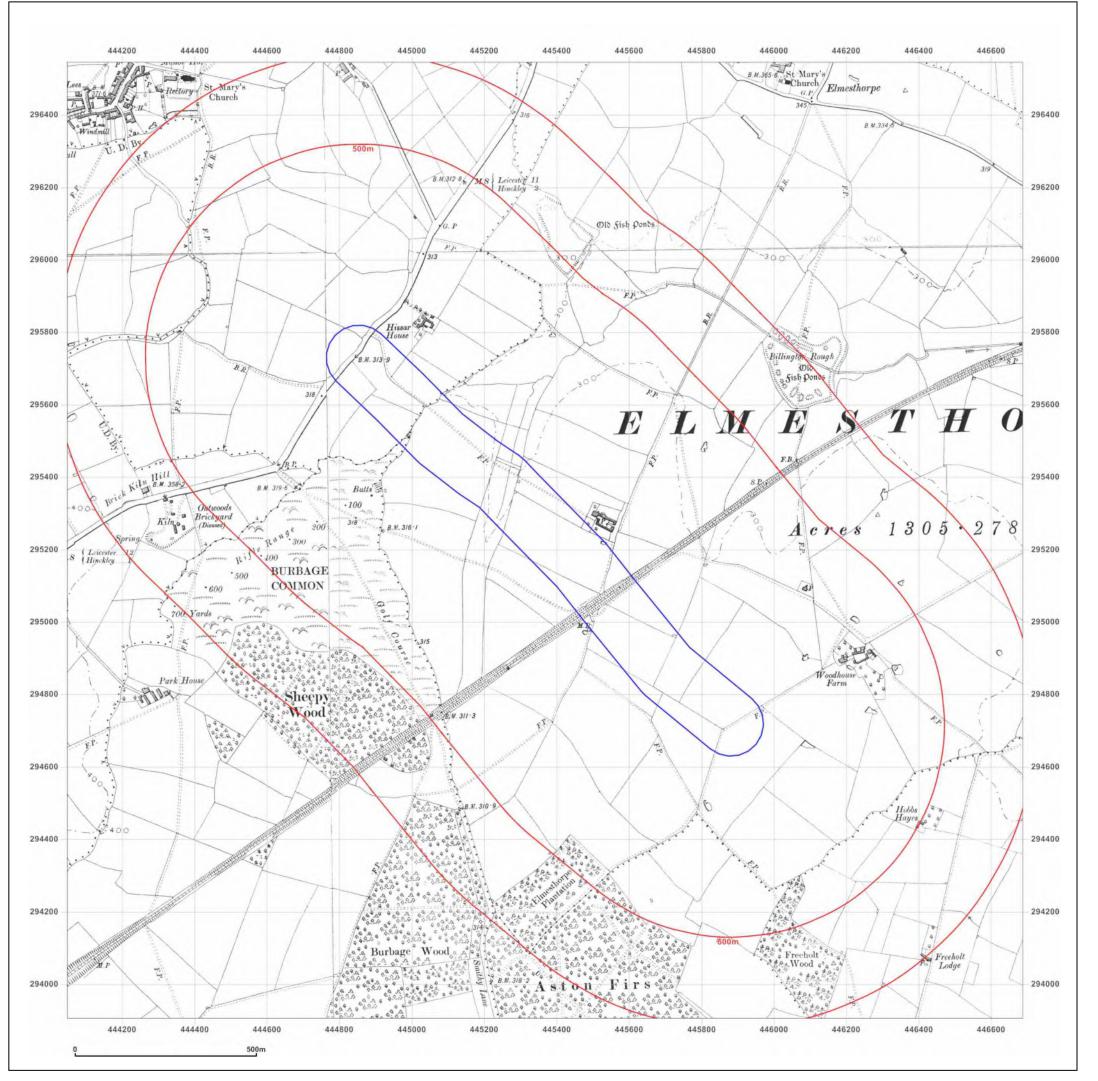




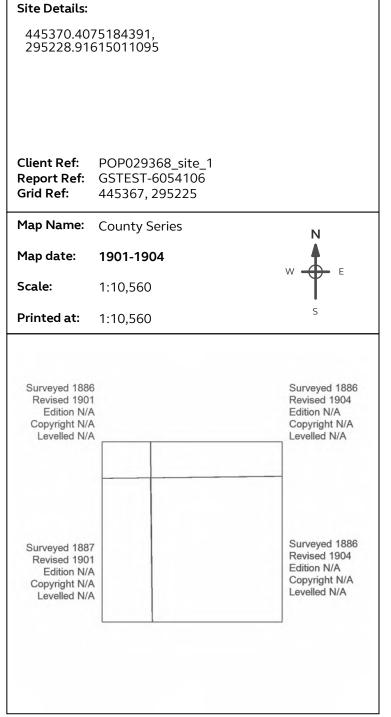
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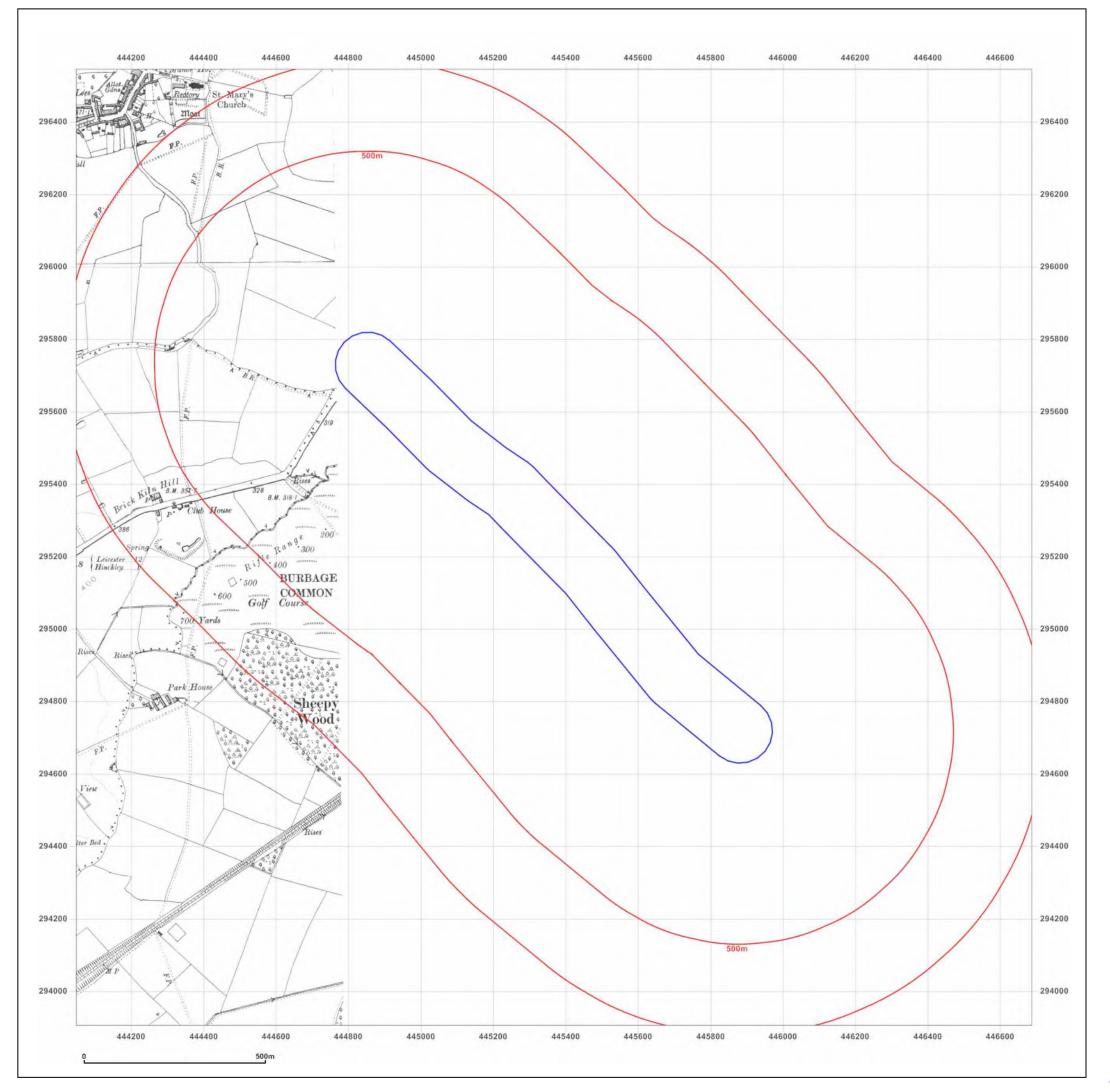




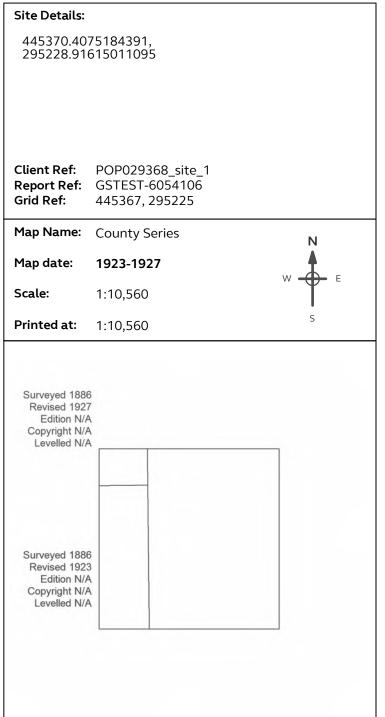
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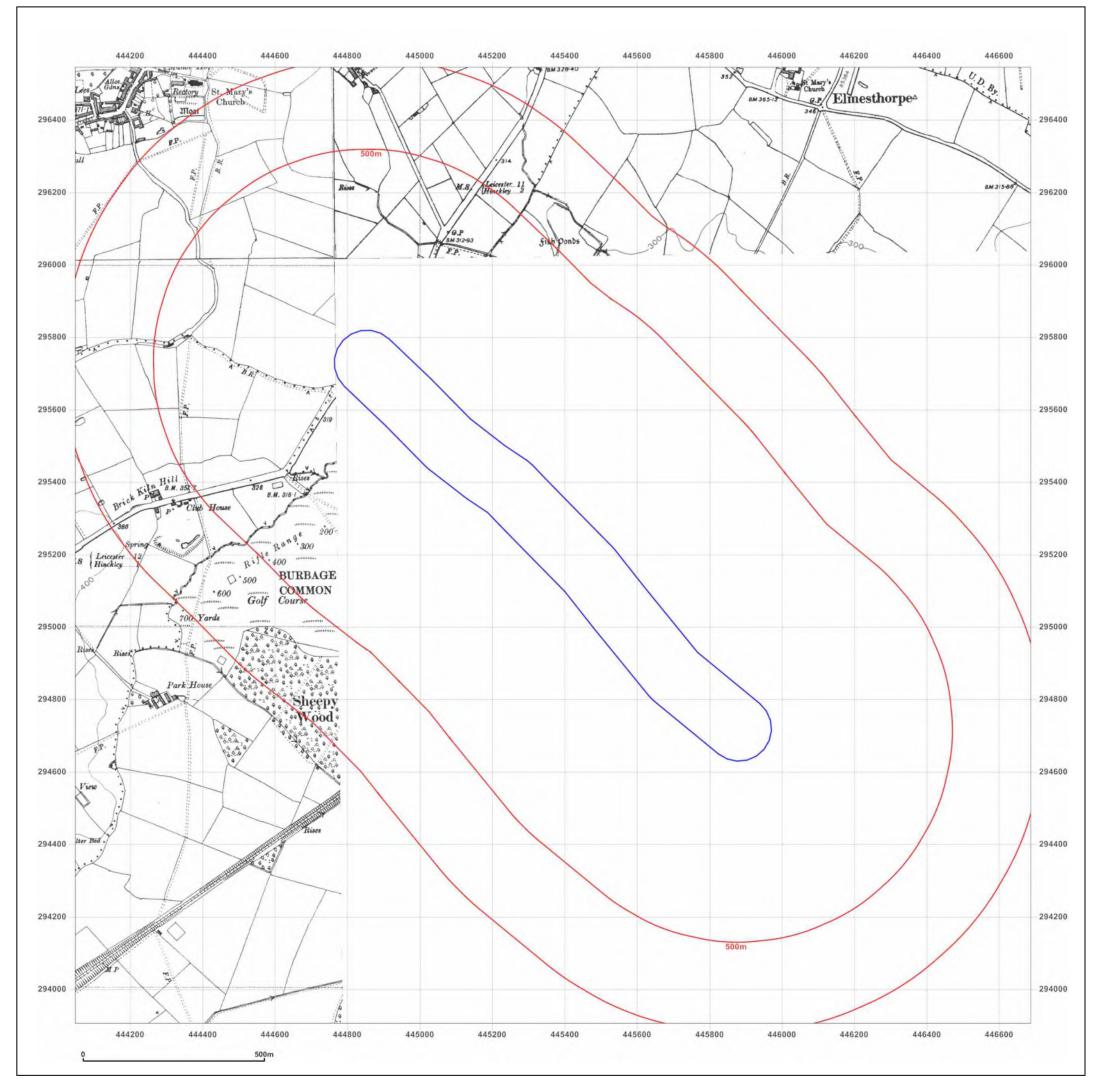




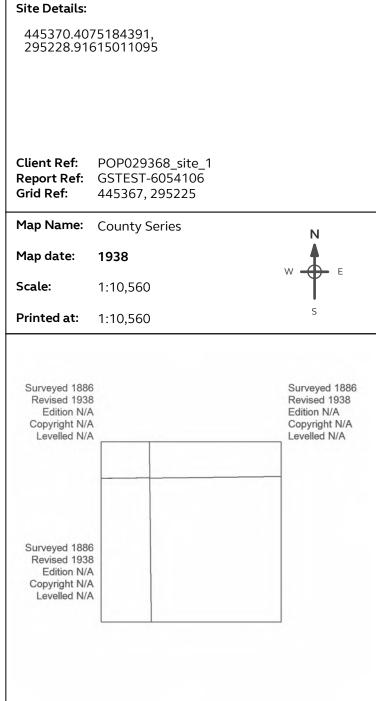
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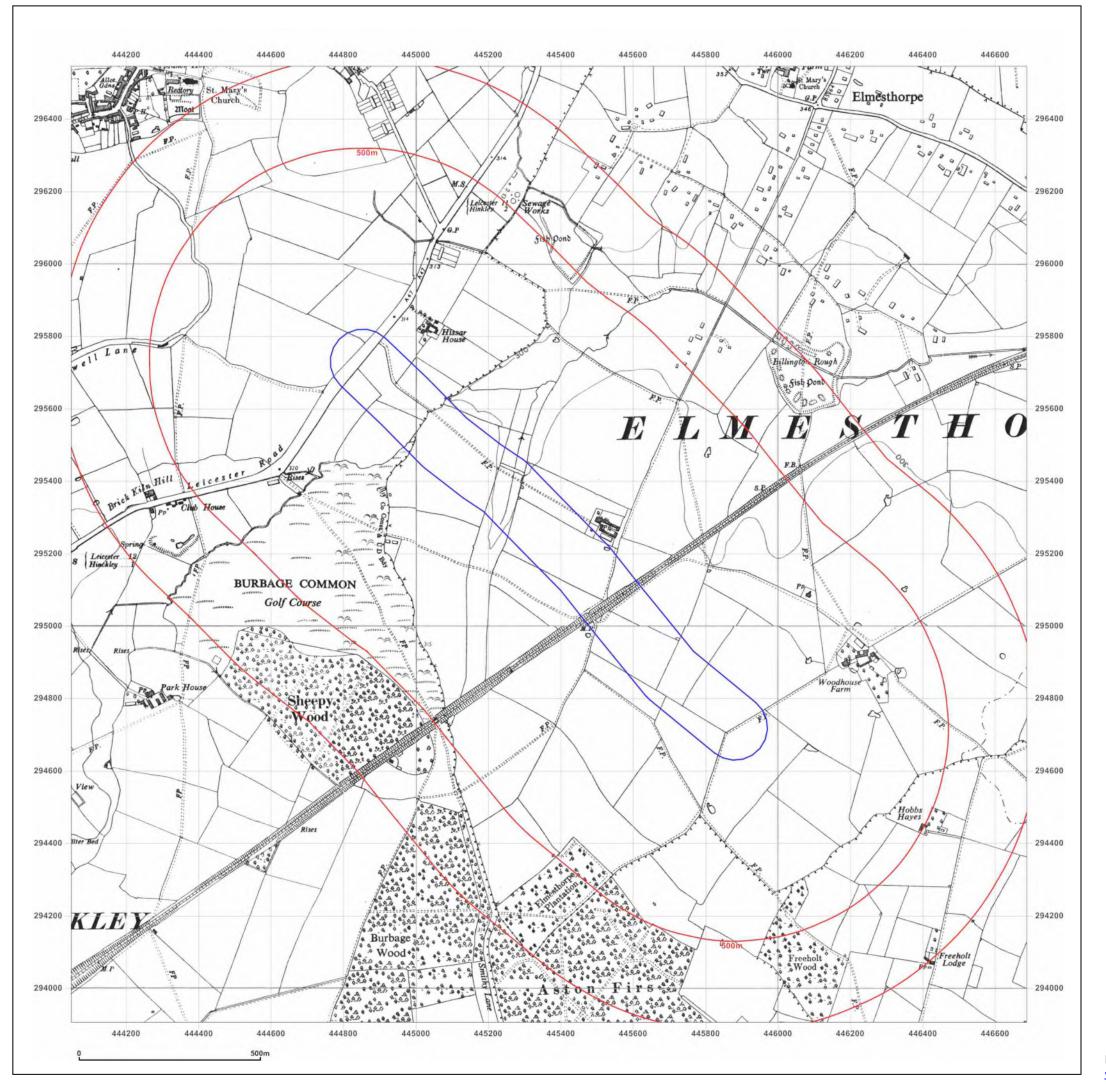




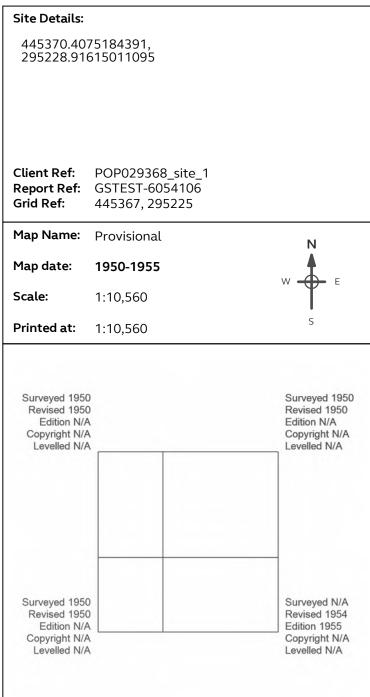
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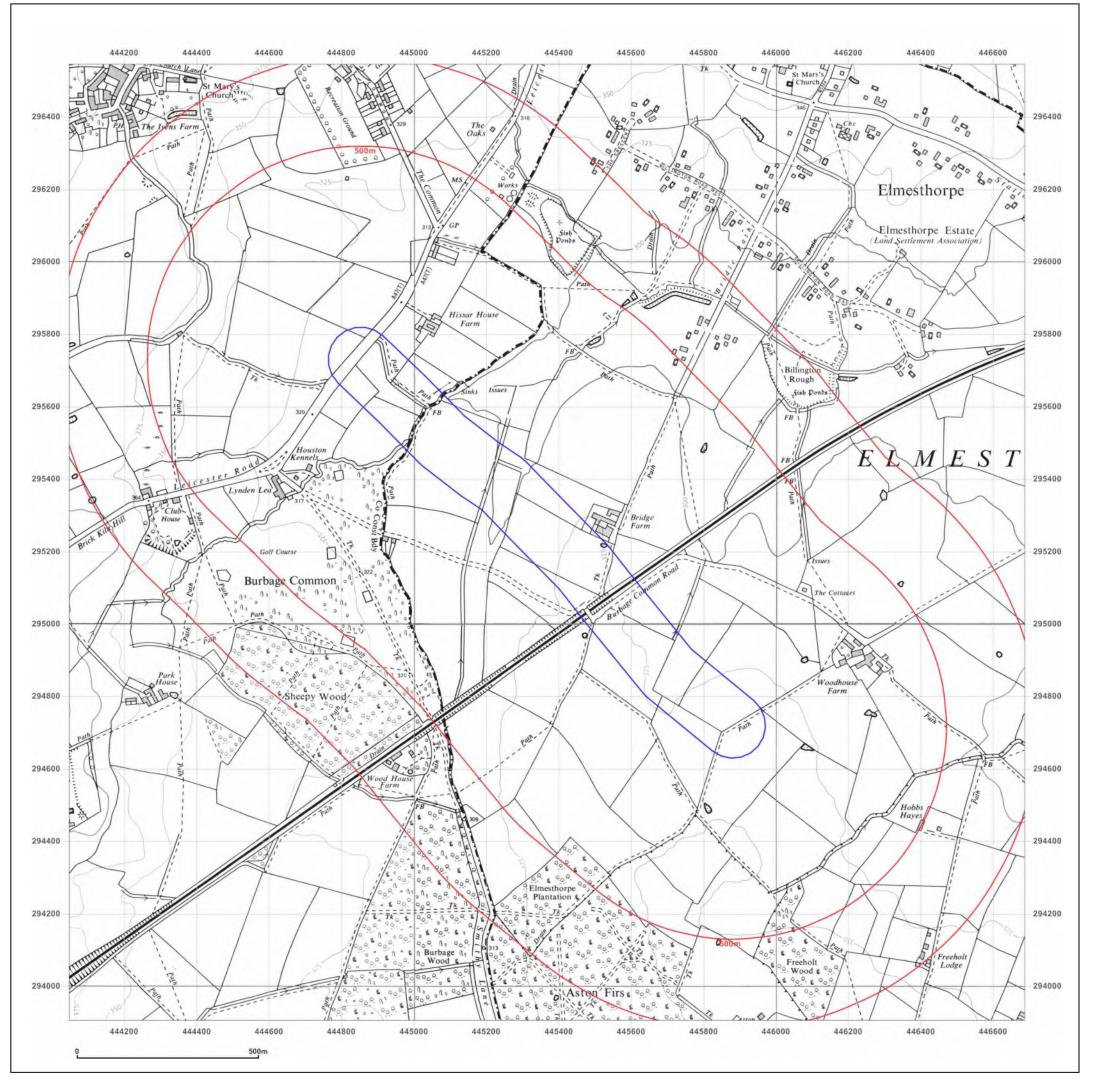




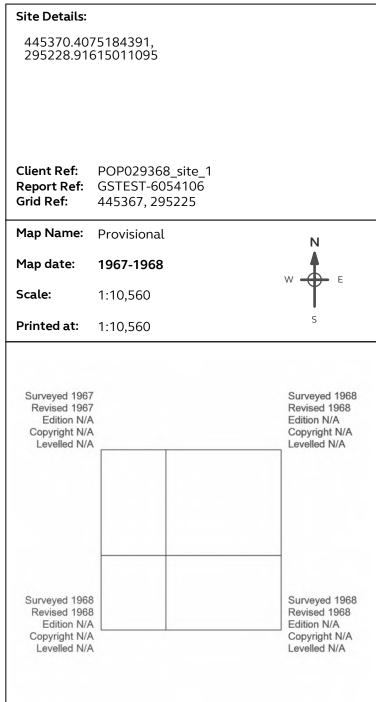
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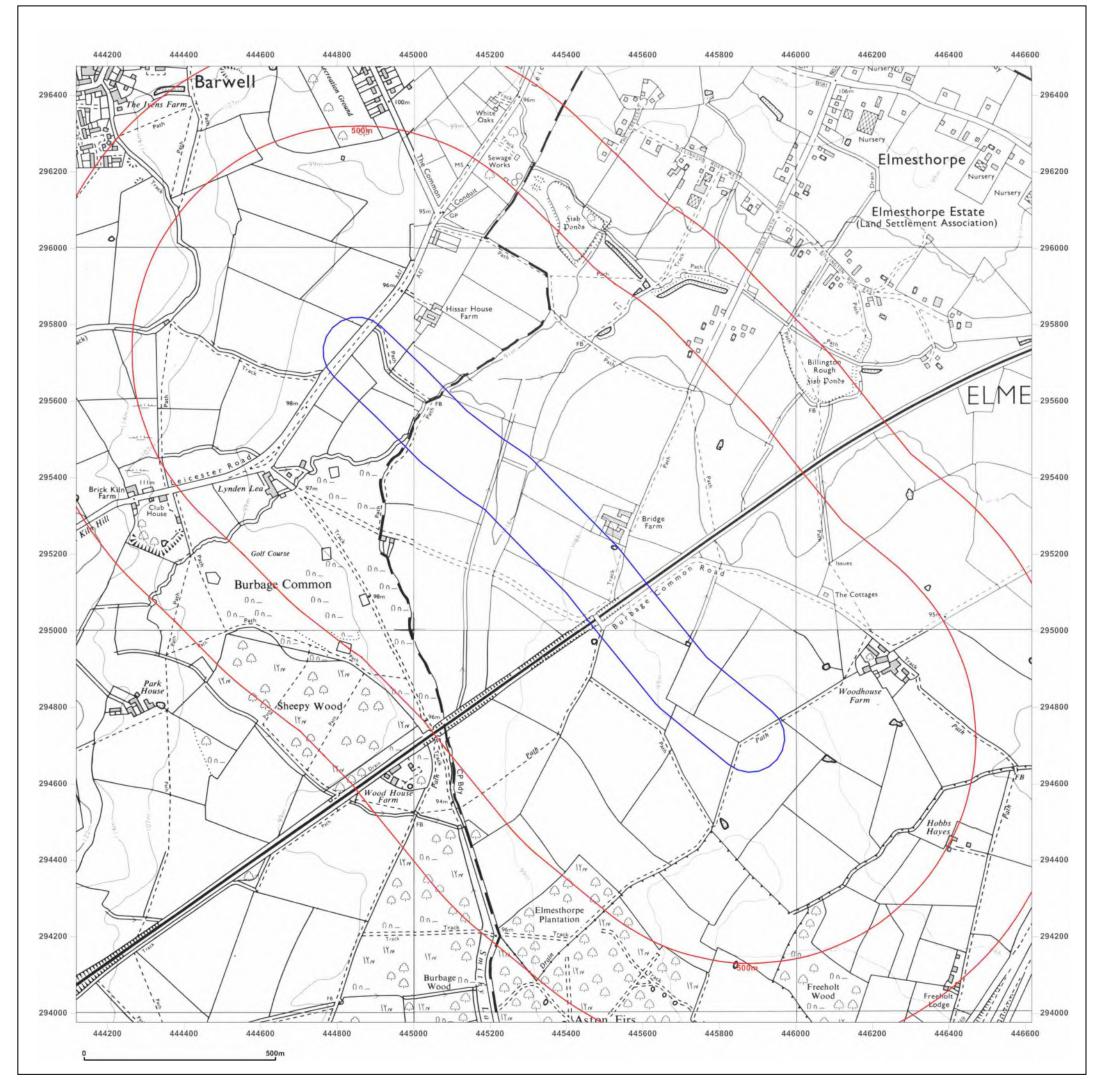




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Map legend available at:





Site Details: 445370.4075184391 295228.91615011095 Client Ref: POP029368_site_1 Report Ref: GSTEST-6054106 **Grid Ref:** 445367, 295225 Map Name: National Grid 1977-1980 Map date: Scale: 1:10,000 **Printed at:** 1:10,000 Surveyed 1977 Surveyed 1972 Revised 1979 Revised 1980 Edition N/A Edition N/A Copyright 1980 Copyright 1980 Levelled 1965 Levelled 1965 Surveyed 1975 Surveyed 1976 Revised 1977 Revised 1979 Edition N/A Edition N/A Copyright 1977 Copyright 1979 Levelled 1965 Levelled 1965

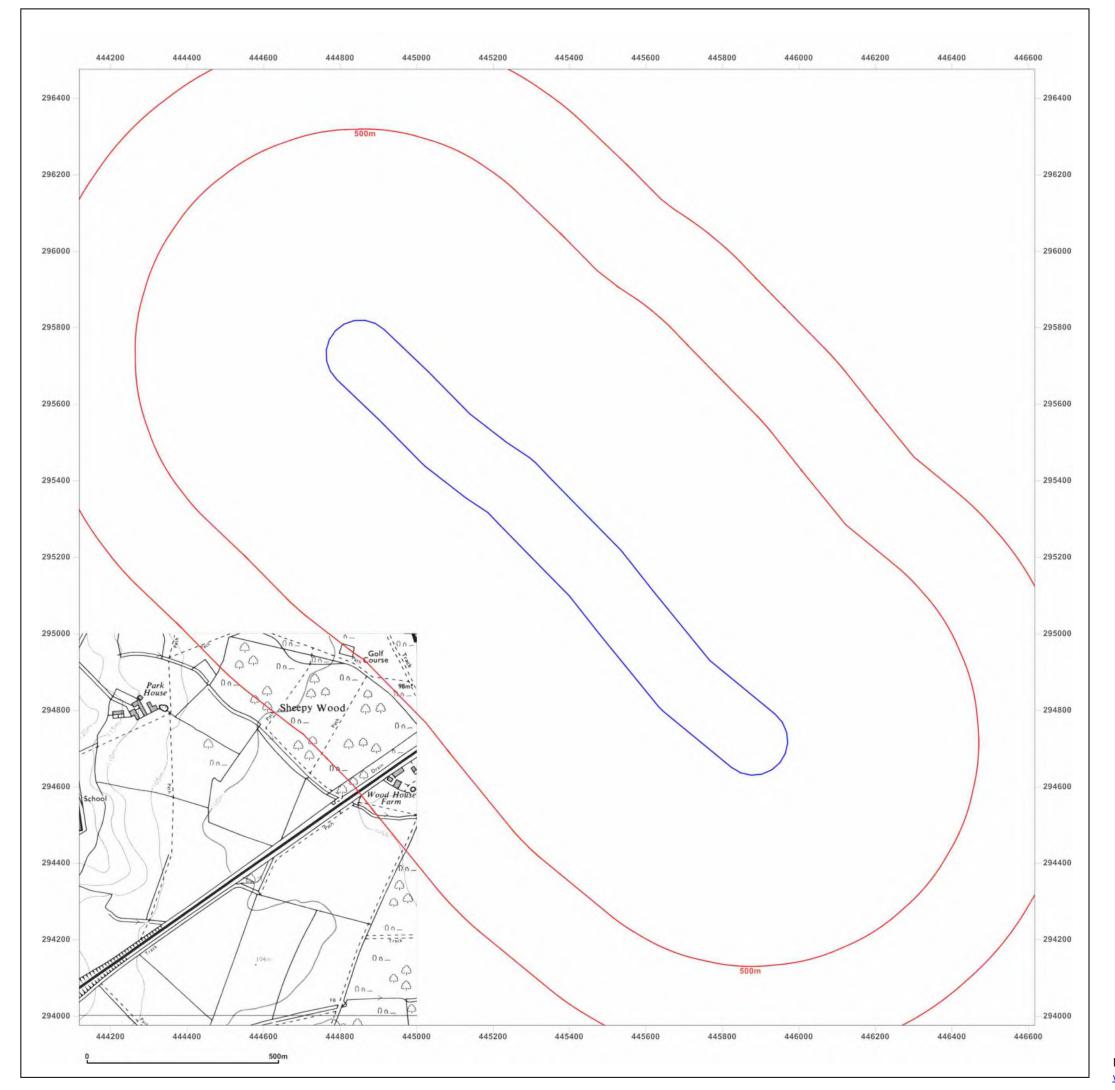


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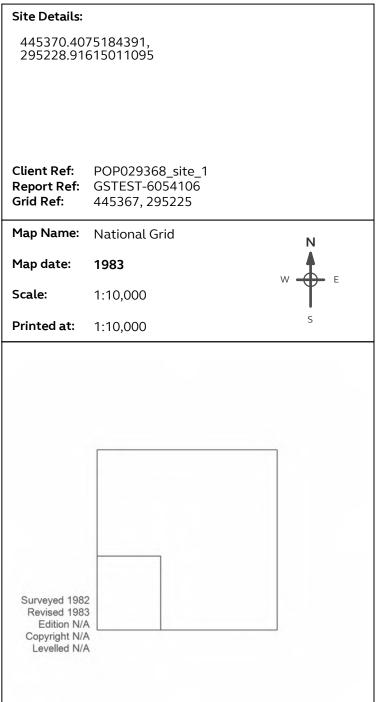
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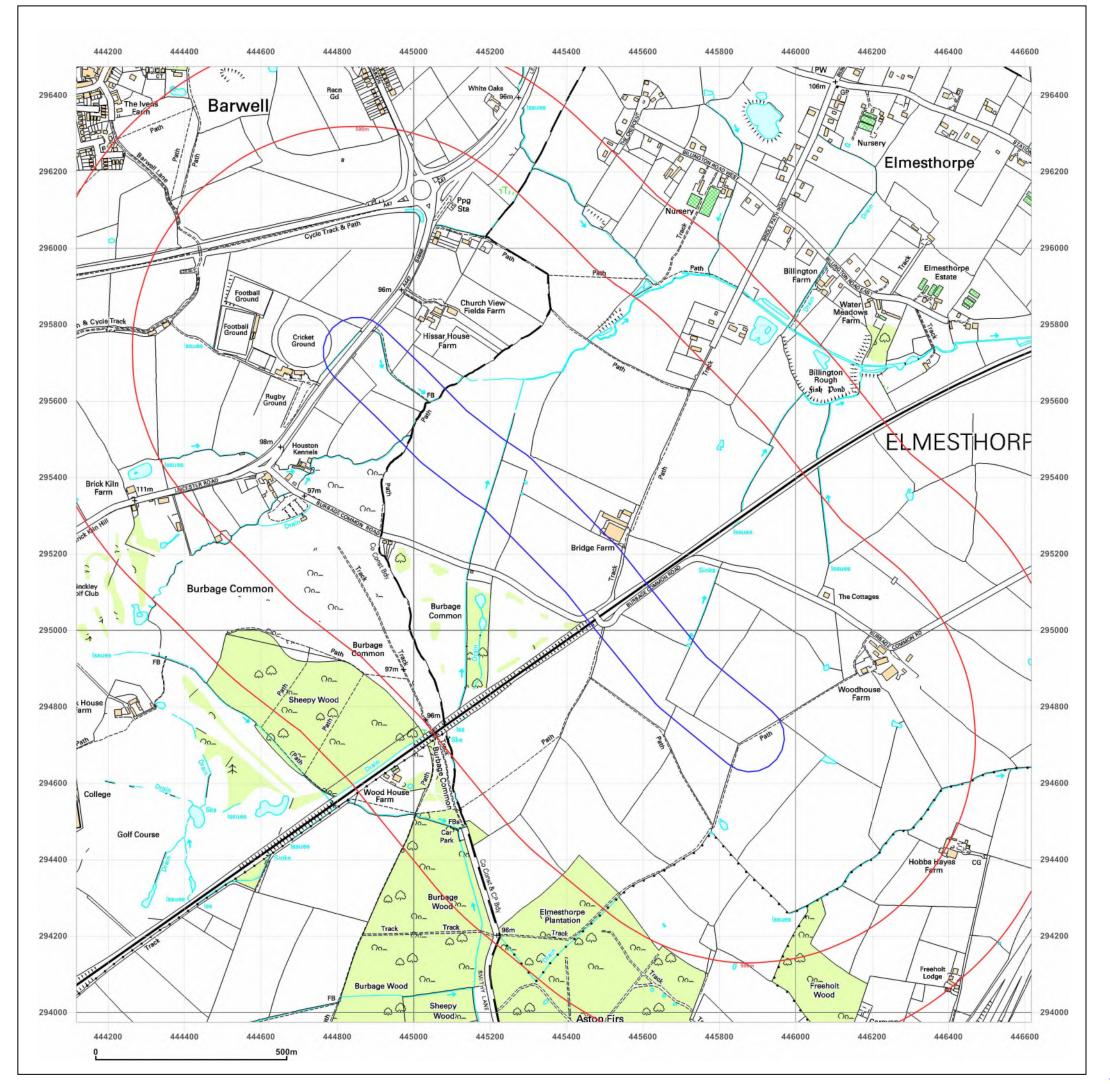




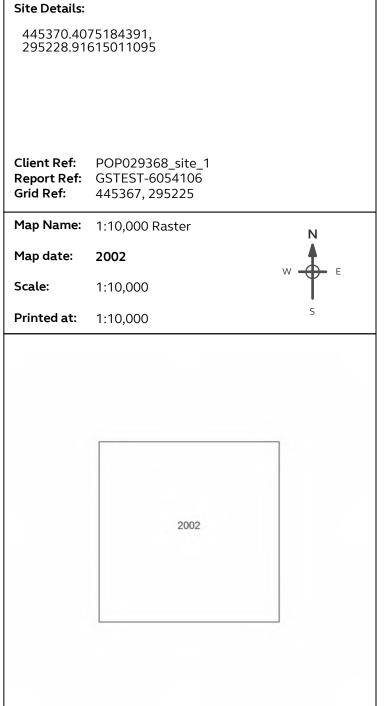
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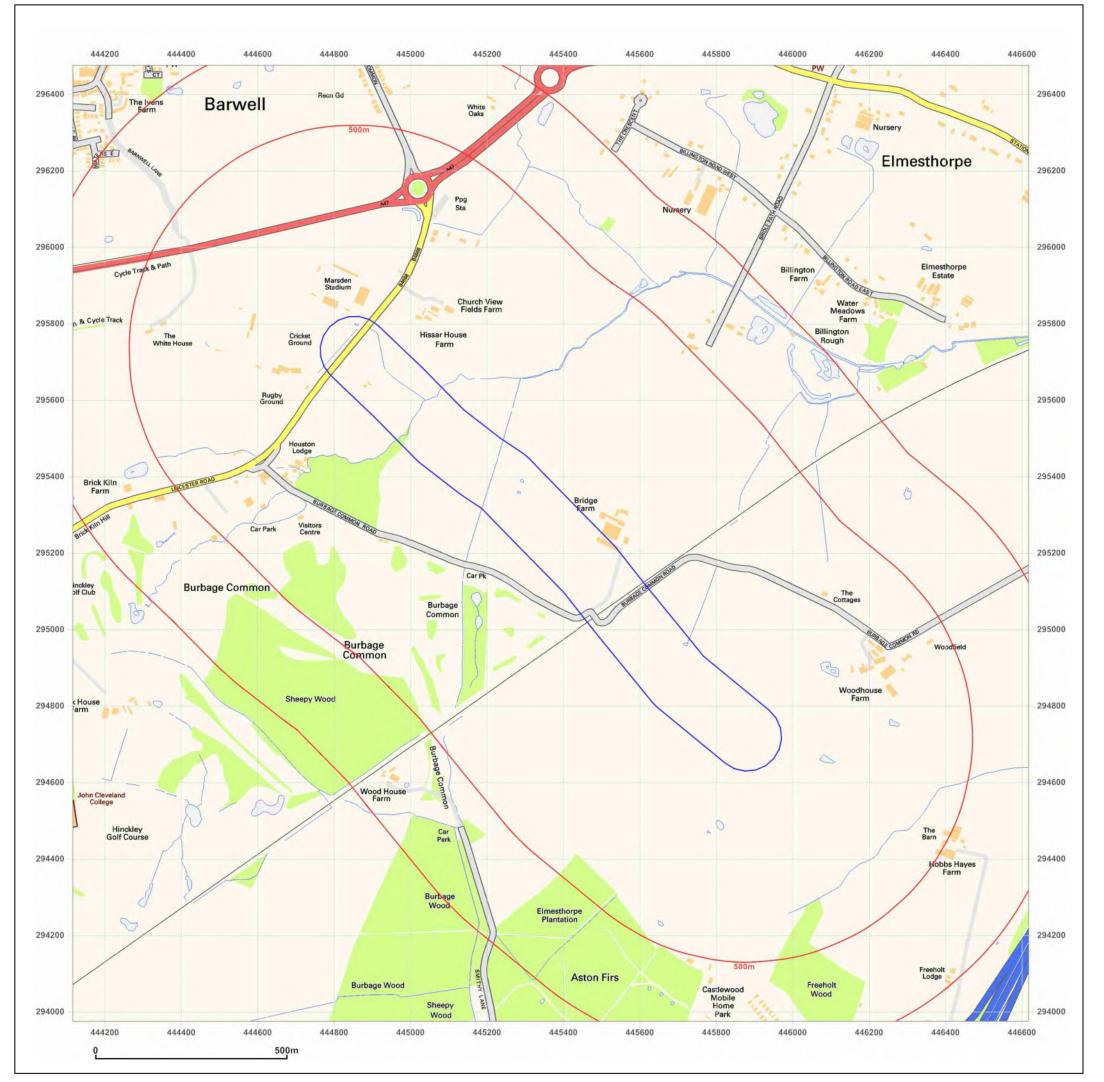




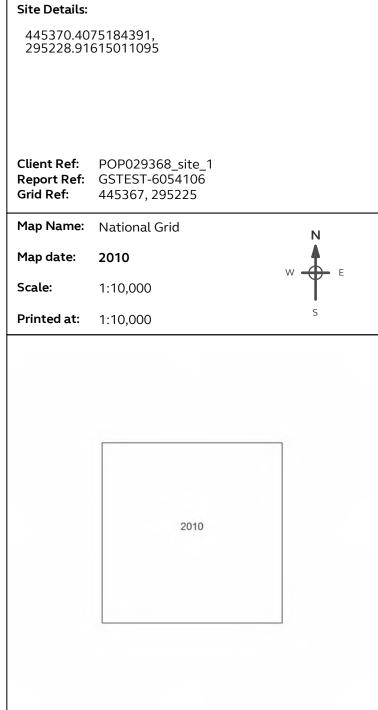
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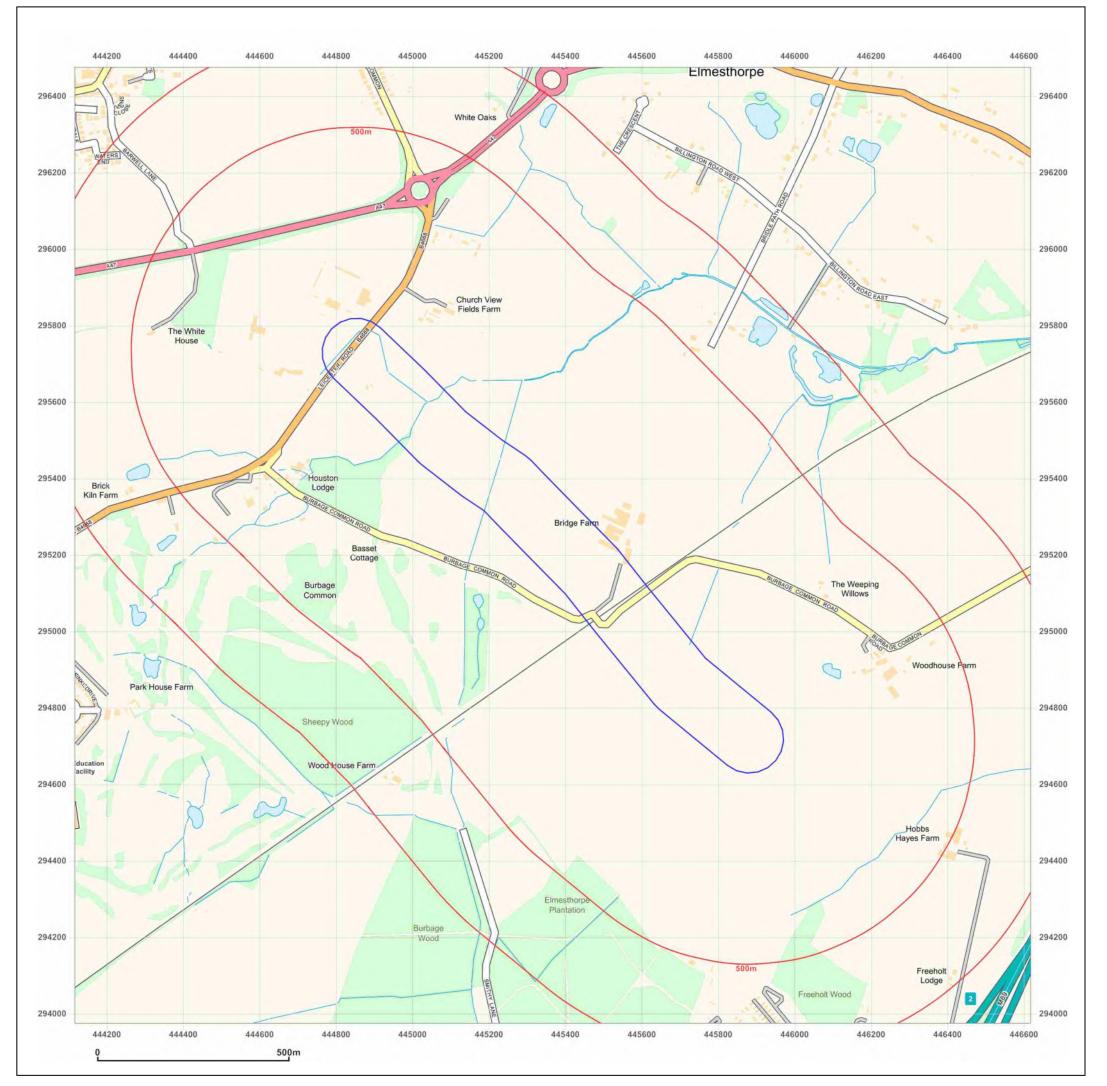




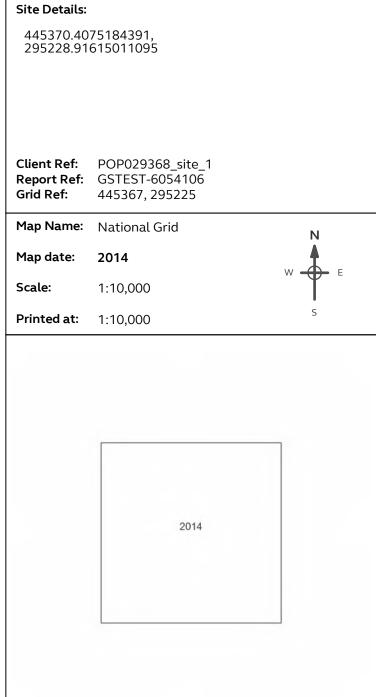
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