



RiverOak Strategic Partners

Manston Airport Development Consent Order

**Preliminary Environmental
Information Report**

Volume 8: Appendix 10.1 part 2

June 2017

For consultation

Scheme Name	Manston Airport DCO
Promoter's Name	RiverOak Strategic Partners
Author	Amec Foster Wheeler
Document Number	TR020002/SC/02/8



2017 Consultation

Suite of Consultation Documents

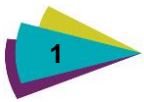
1.1 As part of the statutory consultation under section 47 of the Planning Act 2008 a suite of consultation documents relating to the proposal to reopen Manston Airport is available to the public. Together these documents give an overview of the development proposals including information on the potential benefits and impacts of the Project, environmental considerations and the business case. The documents also provide further information on the consultation process and enable the public to submit their feedback.

1.2 This consultation also forms part of RiverOak's initial engagement on the design of airspace and procedures associated with the airport. As such it is an opportunity for members of the community to highlight any factors which they believe RiverOak should take into account during that design phase. Having taken all such factors into account, the subsequent proposals for flightpaths and airspace will be subject to a separate round of consultation once the DCO application has been made.

1.3 The suite of consultation documents includes:

1. a Consultation Leaflet giving an overview of the proposals and details of where more information about the Project can be found;
2. a Feedback Form in order to collect responses to the consultation;
3. an Overview Report giving a summary of the proposals including the potential benefits and impacts of the Project, how we propose to mitigate against potential impacts, and a non-technical summary of the Preliminary Environmental Information Report (PEIR);
4. **a Preliminary Environmental Information Report (PEIR); containing preliminary information on the likely environmental effects of our proposals as we have ascertained them so far, including noise, transport and air quality, and how we propose to minimise these effects, as well as how we propose to maximise the benefits of the Project;**
5. a draft Masterplan for Manston Airport;
6. Manston Airport - a Regional and National Asset, Volumes I-IV; an analysis of air freight capacity limitations and constraints in the South East and Manston's ability to address these and provide for future growth;
7. an Outline Business Case;
8. a Statement of Community Consultation;
9. a Location Plan; and
10. an Interim Consultation Report, setting out the details of the first stage of consultation and how feedback received has been used to help develop the proposals.

1.4 This Preliminary Environmental Information Report has been prepared pursuant to the Infrastructure Planning (Environmental Impact Assessment) Regulations 2009, as amended.



Appendices

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

82787389_1_1

Customer Reference:

38199-15

National Grid Reference:

631600, 166640

Slice:

D

Site Area (Ha):

306.39

Search Buffer (m):

1000

Site Details:

Kent International Airport Ltd
Kent International Airport, Manston
RAMSGATE
Kent
CT12 5BL

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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2	5	3
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes	pg 3		1		
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 3				(*3)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 4	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Source Protection Zones	pg 4	4		1	1
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines					n/a
Detailed River Network Offline Drainage					n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 6			2	1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 6				3
Local Authority Recorded Landfill Sites	pg 7			2	1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites	pg 8				1
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 9	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 9	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 14				2
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities	pg 15		1	1	2
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 15	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 16	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 16	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 16	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 16	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 17	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 18		1	8	7
Fuel Station Entries					
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 20	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: Cohnen Partnership Property Type: Undefined Or Other Location: The Loop, Kent International Business, MANSTON , Kent Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P04296 Permit Version: 1 Effective Date: 28th May 1992 Issued Date: 28th May 1992 Revocation Date: 5th November 1999 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Into Land Environment: Receiving Water: Into Land Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m</p>	D3SW (S)	119	2	631650 166220
2	<p>Discharge Consents</p> <p>Operator: Summit Engineering Limited Property Type: Industrial Parks & Estates Location: Summit Aviation Spitfire Way, ., Manston, Kent, Ct12 5de Authority: Environment Agency, Southern Region Catchment Area: River Stour & Minster Reference: Npswqd003009 Permit Version: 1 Effective Date: 18th September 2008 Issued Date: 18th September 2008 Revocation Date: 18th September 2020 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Ground Waters Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	D3SW (S)	148	2	631719 166241
3	<p>Discharge Consents</p> <p>Operator: Cohnen Partnership Property Type: Industrial Parks & Estates Location: Cohline (UK) Ltd., The Loop, Kent International Business Park, Manston, Kent Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P04297 Permit Version: 3 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: 25th November 2014 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Into Land Environment: Receiving Water: Into Land Status: Revoked under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	D3SW (S)	280	2	631670 166380
3	<p>Discharge Consents</p> <p>Operator: COHNEN PARTNERSHIP Property Type: Industrial Parks & Estates Location: COHLINE (UK) LTD., THE LOOP, KENT INTERNATIONAL BUSINESS PARK, MANSTON, KENT Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P04297 Permit Version: 2 Effective Date: 5th November 1999 Issued Date: 5th November 1999 Revocation Date: 20th December 2012 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Into Land Environment: Receiving Water: Into Land Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	D3SW (S)	280	2	631670 166380

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</p> <p>Operator: Cohnen Partnership Property Type: Industrial Parks & Estates Location: Cohline (UK Ltd , The Loop, Kent International Business Park, MANSTON , Kent Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P04297 Permit Version: 1 Effective Date: 28th May 1992 Issued Date: 28th May 1992 Revocation Date: 5th November 1999 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Into Land Environment: Receiving Water: Into Land Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m</p>	D3SW (S)	280	2	631670 166380
4	<p>Discharge Consents</p> <p>Operator: Mr. Struan Robertson Property Type: Domestic Property (Multiple) Location: 12,13,14 Allan Grange Lane Manston, Ramsgate, ., Kent, Ct12 5bx Authority: Environment Agency, Southern Region Catchment Area: River Stour & Minster Reference: Npswqd003031 Permit Version: 1 Effective Date: 31st July 2008 Issued Date: 31st July 2008 Revocation Date: 31st July 2020 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Ground Waters Via A Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	D4SW (SE)	335	2	632068 166387
5	<p>Discharge Consents</p> <p>Operator: Mr Stuart Robertson Property Type: Domestic Property (Single) Location: 8 Alland Grange Lane Manston, ., ., Kent, Ct12 5bx Authority: Environment Agency, Southern Region Catchment Area: River Stour & Minster Reference: Npswqd002234 Permit Version: 1 Effective Date: 1st July 2008 Issued Date: 1st July 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwater Via A Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	D4SW (E)	342	2	632166 166421
6	<p>Discharge Consents</p> <p>Operator: Cohline Uk Ltd Property Type: Industrial Parks & Estates Location: Cohline Uk Ltd, Kent International Business Park, The Loop, Manston, Kent, Ct12 7de Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P06086 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: 25th November 2014 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Into Land Environment: Receiving Water: Into Land Status: Revoked under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	D3NE (NE)	673	2	631800 166760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p>Discharge Consents</p> <p>Operator: Cohline Uk Ltd Property Type: Industrial Parks & Estates Location: Cohline Uk Ltd, Kent International Business Park, The Loop, Manston, Kent, Ct12 7de Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P06086 Permit Version: 1 Effective Date: 5th July 1996 Issued Date: 5th July 1996 Revocation Date: 20th December 2012 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Into Land Environment: Receiving Water: Into Land Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	D3NE (NE)	673	2	631800 166760
7	<p>Discharge Consents</p> <p>Operator: Reclamet Ltd Property Type: Undefined Or Other Location: Reclamet Ltd, Woodchurch Road, Birchington, Kent, Ct7 0hd Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P06044 Permit Version: 1 Effective Date: 22nd May 1996 Issued Date: 22nd May 1996 Revocation Date: 31st January 2008 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Into Land Environment: Receiving Water: Into Land Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	D8NE (NE)	914	2	632650 167210
8	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Cummins Location: Manston Park, Columbus Avenue, Manston, RAMSGATE, Kent, CT12 5BF Authority: Thanet District Council, Environmental Health Department Permit Reference: 19-06/07 Dated: 19th December 2000 Process Type: Local Authority Pollution Prevention and Control Description: PG6/23 Coating of metal and plastic Status: Permitted Positional Accuracy: Manually positioned to the address or location</p>	D3NW (NW)	661	3	631393 166795
	<p>Nearest Surface Water Feature</p>	D3SE (SE)	248	-	632047 166305
9	<p>Prosecutions Relating to Authorised Processes</p> <p>Location: Minster Road, Monkton, RAMSGATE, Kent, CT12 4BA Prosecution Text: Prosecutee Allowed Employee To Fly-Tip Waste. Prosecution Act: Epa90 S33(1a) Hearing Date: 29th May 2002 Verdict: Guilty Fine: 300 Costs: 2572.46 Positional Accuracy: Manually positioned to the address or location</p>	D2SE (SW)	128	2	631190 166232
	<p>Water Abstractions</p> <p>Operator: Southern Water Services Plc Licence Number: 4/0049/E/GR Permit Version: Not Supplied Location: Sparrow Castle Pumping Station Authority: Environment Agency, Southern Region Abstraction: Public Water Supply Abstraction Type: Not Supplied Source: Pond or Lake Daily Rate (m3): 5001 Yearly Rate (m3): 1363800 Details: Additional Purpose: Public Water Supply Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	D7NE (N)	1429	2	631855 167515

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Southern Water Services Ltd Licence Number: 9/40/04/0049/Gr Permit Version: 100 Location: Borehole At Sparrow Castle Ps Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5001 Yearly Rate (m3): 1363800 Details: Water Supply Area Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 2nd November 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D7NE (N)	1433	2	631850 167520
	Water Abstractions Operator: Southern Water Services Plc Licence Number: 4/0049/ /GR Permit Version: Not Supplied Location: Sparrow Castle Pumping Station Authority: Environment Agency, Southern Region Abstraction: Public Water Supply Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 14774 Yearly Rate (m3): 4091400 Details: H5 Chalk Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D7NE (N)	1433	2	631850 167520
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 47 East Kent Scale: 1:100,000	D3NW (W)	0	2	631601 166641
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 47 East Kent Scale: 1:100,000	D3NW (W)	0	2	631601 166641
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	D3NW (W)	0	4	631601 166641
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	D8SE (NE)	0	4	632424 167019
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	D3NW (W)	0	4	631601 166641
10	Source Protection Zones Name: Lord Of The Manor Source: Environment Agency, Head Office Reference: Su036 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	(SE)	0	2	632336 165679
11	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	(SE)	0	2	632205 165825
12	Source Protection Zones Name: Minster Source: Environment Agency, Head Office Reference: Su349 Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	(SW)	0	2	631257 165996

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	D3NW (W)	0	2	631601 166641
14	Source Protection Zones Name: Minster Source: Environment Agency, Head Office Reference: Su349 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	(SW)	332	2	630876 165561
15	Source Protection Zones Name: Sparrows Castle Source: Environment Agency, Head Office Reference: Su032 Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	D3NW (NE)	628	2	631659 166774
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
	Detailed River Network Lines None				
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	<p>Historical Landfill Sites</p> <p>Licence Holder: Not Supplied Location: Alland Grange Lane, Manston Name: Sunnybank Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19406 First Input Date: 1st January 1976 Last Input Date: 31st December 1984 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7255 BGS Ref: Not Supplied Other Ref: TH11</p>	D4SW (E)	268	2	632278 166497
17	<p>Historical Landfill Sites</p> <p>Licence Holder: R A Robertson Location: Alland Grange Lane, Manston Name: Alland Grange Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19408 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7256 BGS Ref: Not Supplied Other Ref: TH12</p>	D4SW (SE)	270	2	632084 166379
18	<p>Historical Landfill Sites</p> <p>Licence Holder: Quex Park Estate Location: Manston Road, Margate, Kent Name: Cheesemans Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19396 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7254 BGS Ref: Not Supplied Other Ref: TH10</p>	D8SE (E)	778	2	632409 166962
19	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 10381 Location: The Recycling Centre, Woodchurch Rd, Woodchurch, Birchington, Kent, CT7 0HL Operator Name: Ampthill Metal Co Ltd Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) Licence Status: Transferred Issued: 16th January 2008 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	D8NE (NE)	914	2	632650 167210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 10055 Location: Woodchurch Road, Woodchurch, Birchington, Kent, CT7 0HL Operator Name: Reclamet Demolition Limited Operator Location: 111a , Blean, Canterbury, Kent, CT2 9JH Authority: Environment Agency - Southern Region, Kent Area Site Category: Metal Recycling Sites (Mixed) Licence Status: Issued Issued: 24th October 2003 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Manually corrected supplier location</p>	D8NE (NE)	914	2	632650 167210
20	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 10055 Location: Land / Premises At, Woodchurch Road, Manston, Birchington, Kent, CT7 0HL Operator Name: Amphill Metal Co Ltd Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Metal Recycling Sites (Mixed) Licence Status: Transferred Issued: 24th October 2003 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	D8NE (NE)	915	2	632694 167244
	<p>Local Authority Landfill Coverage</p> <p>Name: Thanet District Council - Has supplied landfill data</p>		0	3	631601 166641
	<p>Local Authority Landfill Coverage</p> <p>Name: Kent County Council - Had landfill data but passed it to the relevant environment agency</p>		0	9	631601 166641
21	<p>Local Authority Recorded Landfill Sites</p> <p>Location: Sunnybank Reference: TH11 Authority: Thanet District Council, Environmental Health Department Last Reported Status: Closed Types of Waste: Non Degradable, Slowly Degradable - Scrap Metal, Putrescible, Hazardous Date of Closure: 31/12/1984 Positional Accuracy: Positioned by the supplier Boundary Quality: Good</p>	D4SW (E)	256	3	632272 166484
22	<p>Local Authority Recorded Landfill Sites</p> <p>Location: Alland Grange Reference: TH12 Authority: Thanet District Council, Environmental Health Department Last Reported Status: Open Types of Waste: Non Degradable, Slowly Degradable - Scrap Metal, Putrescible, Hazardouse, Farm, Rubble Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good</p>	D3SE (SE)	264	3	632044 166374
23	<p>Local Authority Recorded Landfill Sites</p> <p>Location: Cheesemans Farm Reference: TH10 Authority: Thanet District Council, Environmental Health Department Last Reported Status: Open Types of Waste: Non Degradable, Slowly Degradable - Scrap Metal, Putrescible, Hazardous, Farm Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good</p>	D8SE (E)	771	3	632402 166961

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Explosive Sites Name: Ramsgate/Theatrical Pyrotechnics Ltd Location: Manston Airport, Manston, RAMSGATE, Kent Status: Active Positional Accuracy: Manually positioned to the address or location	D3NW (NE)	591	5	631641 166697

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	D3NW (W)	0	4	631601 166641
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	D4SW (SE)	0	4	632121 166293
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	D3NW (W)	0	4	631601 166641
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	D3NW (SW)	0	4	631506 166548
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	D4NW (E)	0	4	632126 166617
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	D3NE (E)	5	4	632022 166796
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	D2SE (SW)	12	4	631205 166308

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D3SE (SE)	38	4	632000 166256
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D2SE (SW)	65	4	631354 166495
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D2SW (SW)	159	4	631000 166367
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D3NE (E)	216	4	632000 166641
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D3NW (W)	267	4	631564 166628
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D8SE (E)	280	4	632707 166924

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D2NW (W)	343	4	631000 166554
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D2NW (W)	500	4	631000 166641
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D3NE (E)	525	4	632000 166691
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D8NE (NE)	540	4	632685 167245
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D8NW (NE)	573	4	632329 167436
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D2NW (W)	611	4	630788 166541

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D3NE (E)	674	4	632000 166722
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D8SE (E)	695	4	632475 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D8SE (NE)	720	4	632554 167063
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D8SE (NE)	762	4	632419 167020
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D7NE (NE)	825	4	632014 167284
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D7SE (NE)	841	4	631832 166958

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D8SW (NE)	855	4	632196 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D7SE (NE)	862	4	632000 166917
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D7SW (N)	865	4	631601 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D7SE (NE)	874	4	631805 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D1NE (W)	878	4	630440 166543
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D7SE (NE)	880	4	632000 167024

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D6SW (NW)	917	4	631008 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D6SW (NW)	919	4	631000 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D7SE (NE)	932	4	632000 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D7SE (NE)	968	4	631916 167057
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	D6NW (NW)	1000	4	631000 167241
25	BGS Recorded Mineral Sites Site Name: Cheeseman'S Farm Chalk Pit Location: , Acol, Birchington, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 130936 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: Margate Chalk Member Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D4NE (E)	658	4	632406 166821

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	BGS Recorded Mineral Sites Site Name: Cheeseman'S Farm Chalk Pit Location: , Acol, Birchington, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 130935 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: Margate Chalk Member Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	D8SE (E)	795	4	632435 166964
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Man-Made Mining Cavities Easting: 632600 Northing: 166200 Distance: 15 Quadrant Reference: D4 Quadrant Reference: SE Bearing Ref: SE Cavity Type: 3x Adit Entry Chalk Mines Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	D4SE (SE)	15	6	632600 166200
	Man-Made Mining Cavities Easting: 632100 Northing: 166400 Distance: 340 Quadrant Reference: D4 Quadrant Reference: SW Bearing Ref: SE Cavity Type: Adit Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology Head Brickearth Detail:	D4SW (SE)	340	6	632100 166400
	Man-Made Mining Cavities Easting: 632200 Northing: 166900 Distance: 782 Quadrant Reference: D8 Quadrant Reference: SW Bearing Ref: NE Cavity Type: Chalk Mining-Exact Details Unknown Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	D8SW (NE)	782	6	632200 166900
	Man-Made Mining Cavities Easting: 632000 Northing: 167000 Distance: 945 Quadrant Reference: D7 Quadrant Reference: SE Bearing Ref: NE Cavity Type: Reference to Possible Chalkwell/Denehole Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology Head Brickearth Detail:	D7SE (NE)	945	6	632000 167000
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	D3NW (W)	0	4	631601 166641
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	D3SE (SE)	214	4	632024 166426

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D8NE (NE)	0	4	632685 167245
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D4NW (E)	0	4	632126 166617
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D3NW (W)	0	4	631601 166641
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D8SE (NE)	0	4	632419 167020
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2SE (SW)	12	4	631205 166308
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2SE (SW)	65	4	631354 166495
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D3NW (W)	0	4	631601 166641
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D3NW (W)	0	4	631601 166641
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D8NE (NE)	0	4	632685 167245
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D4NW (E)	0	4	632126 166617
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D3NW (W)	0	4	631601 166641
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D8SE (NE)	0	4	632419 167020
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2SE (SW)	12	4	631205 166308
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2SE (SW)	65	4	631354 166495
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D3NW (W)	0	4	631601 166641
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D8NE (NE)	0	4	632685 167245
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D3NW (W)	0	4	631601 166641
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D8SE (NE)	0	4	632419 167020
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D4NW (E)	0	4	632126 166617
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2SE (SW)	12	4	631205 166308
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2SE (SW)	65	4	631354 166495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D3NW (W)	0	4	631601 166641
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D3NW (W)	0	4	631601 166641

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Contemporary Trade Directory Entries Name: Dormans Builders Merchant Location: Spitfire Way, Manston, Ramsgate, Kent, CT12 5BU Classification: Builders' Merchants Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D4SE (SE)	31	-	632612 166218
28	Contemporary Trade Directory Entries Name: Kent Crisps Location: Invicta Way, Manston Park, Ramsgate, Kent, CT12 5FD Classification: Food Products - Manufacturers Status: Active Positional Accuracy: Manually positioned to the road within the address or location	D2SE (SW)	258	-	631386 166392
29	Contemporary Trade Directory Entries Name: A M C Foods Location: Invicta Way, Manston Park, RAMSGATE, Kent, CT12 5FD Classification: Food Products - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	D2SE (SW)	311	-	631350 166446
30	Contemporary Trade Directory Entries Name: T P L (Manston) Location: The Loop, Manston Airport, Manston, Ramsgate, Kent, CT12 5DE Classification: Firework Stockists Status: Inactive Positional Accuracy: Automatically positioned to the address	D3SE (SE)	335	-	631811 166414
31	Contemporary Trade Directory Entries Name: Kent Office Solutions Location: Unit 6, Invicta Way, Manston Park, Ramsgate, CT12 5FD Classification: Office Furniture & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	D2SE (SW)	360	-	631299 166491
31	Contemporary Trade Directory Entries Name: Electronic Assembly Solutions Location: Unit 9, Invicta Way, Manston Park, Ramsgate, Kent, CT12 5FD Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	D2SE (SW)	375	-	631264 166499
32	Contemporary Trade Directory Entries Name: Swift Car Transport Ltd Location: The Hanger, The Loop, Manston, Ramsgate, Kent, CT12 5DE Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	D3NE (E)	487	-	631813 166568
32	Contemporary Trade Directory Entries Name: 3 Planks Ltd Location: Unit 5 Ravensgate Drive, Ramsgate, Kent, CT12 5FP Classification: Joinery Manufacturers Status: Active Positional Accuracy: Manually positioned within the geographical locality	D3NE (E)	487	-	631813 166568
32	Contemporary Trade Directory Entries Name: Formula One Autocentres Ltd Location: Unit 4 Westwood Cross Trade Park, Ravensgate Drive, Ramsgate, Kent, CT12 5FP Classification: Tyre Dealers Status: Active Positional Accuracy: Manually positioned within the geographical locality	D3NE (E)	487	-	631813 166568
33	Contemporary Trade Directory Entries Name: Cohline Uk Ltd Location: The Loop, Manston Airport, Manston, Ramsgate, Kent, CT12 5DE Classification: Hose, Tubing & Fittings Status: Inactive Positional Accuracy: Automatically positioned to the address	D3NW (NE)	592	-	631642 166697
34	Contemporary Trade Directory Entries Name: R K M Electrical Location: 2, Alland Grange Lane, Manston, Ramsgate, Kent, CT12 5BX Classification: Plant & Machinery Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	D4NW (E)	640	-	632304 166780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Contemporary Trade Directory Entries Name: Cummins Power Generation Location: Columbus Avenue, Manston Park, Manston, RAMSGATE, Kent, CT12 5BF Classification: Generators - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	D3NW (NW)	659	-	631393 166793
36	Contemporary Trade Directory Entries Name: Isle Of Thanet Joinery Location: Unit 1, Cheesemans Farm, Alland Grange Lane, Manston, RAMSGATE, Kent, CT12 5BZ Classification: Joinery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	D8SW (E)	723	-	632346 166874
36	Contemporary Trade Directory Entries Name: Manston Body Repairs Location: Unit 2, Cheesemans Farm, Alland Grange Lane, Manston, Ramsgate, Kent, CT12 5BZ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	D8SW (E)	736	-	632323 166882
37	Contemporary Trade Directory Entries Name: Reclamet Location: Woodchurch Road, Woodchurch, Birchington, Kent, CT7 0HL Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address	D8SE (NE)	900	-	632650 167192
38	Contemporary Trade Directory Entries Name: Tune Up Location: Chapel Cottage, The Street, Acol, Birchington, Kent, CT7 0JA Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Automatically positioned to the address	D6SW (W)	960	-	630780 166959

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Nitrate Vulnerable Zones Name: Not Supplied Description: Groundwater Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	D3NW (W)	0	7	631601 166641

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Discharge Consents Environment Agency - Southern Region	January 2016	Quarterly
Enforcement and Prohibition Notices Environment Agency - Southern Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Southern Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Southern Region	January 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Southern Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Southern Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - Southern Region	March 2013	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	January 2016 January 2016	Quarterly Quarterly
Water Abstractions Environment Agency - Southern Region	January 2016	Quarterly
Water Industry Act Referrals Environment Agency - Southern Region	January 2016	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	January 2015	As notified
Source Protection Zones Environment Agency - Head Office	January 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2016	Quarterly
Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	March 2016	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	February 2016 February 2016	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - Kent & South London Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	January 2016 January 2016 January 2016	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Kent County Council - Waste Management Group Thanet District Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Kent County Council - Waste Management Group Thanet District Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	February 2016	Bi-Annually
Explosive Sites Health and Safety Executive	February 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Thanet District Council Kent County Council	February 2016 January 2016	Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Thanet District Council Kent County Council	February 2016 January 2016	Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2015	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2015	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2015	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Outstanding Natural Beauty Natural England	October 2015	Bi-Annually
Environmentally Sensitive Areas Natural England	October 2015	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	October 2015	Bi-Annually
Marine Nature Reserves Natural England	October 2015	Bi-Annually
National Nature Reserves Natural England	October 2015	Bi-Annually
National Parks Natural England	March 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	October 2015	Bi-Annually
Sites of Special Scientific Interest Natural England	October 2015	Bi-Annually
Special Areas of Conservation Natural England	October 2015	Bi-Annually
Special Protection Areas Natural England	October 2015	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 <p>British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Centre for Ecology and Hydrology	 <p>Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Thanet District Council - Environmental Health Department Council Offices, Cecil Street, Margate, Kent, CT9 1XZ	Telephone: 01843 577000 Fax: 01843 290906 Website: www.thanet.gov.uk
4	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
5	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
6	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
7	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
8	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
9	Kent County Council - Waste Management Group Block H, The Forstal, Beddow Way, Aylesford, Kent, ME20 7BT	Telephone: 01622 605976 Website: www.kent.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		
	Bracken		Heath
	Rough Grassland		
	Marsh		Reeds
	Saltings		
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		
	Standard Gauge Single Track		
	Siding, Tramway or Mineral Line		
	Narrow Gauge		
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

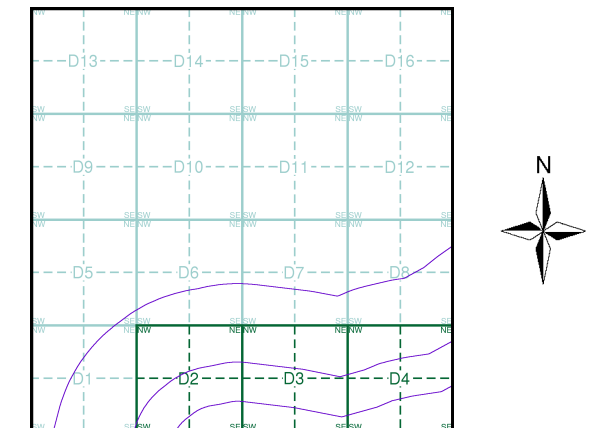
1:10,000 Raster Mapping

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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:10,560	1877	2
Kent	1:10,560	1898 - 1899	3
Kent	1:10,560	1908	4
Kent	1:10,560	1908	5
Kent	1:10,560	1908	6
Kent	1:10,560	1931 - 1939	7
Kent	1:10,560	1931	8
Kent	1:10,560	1938 - 1946	9
Historical Aerial Photography	1:10,560	1945	10
Kent	1:10,560	1948	11
Historical Aerial Photography	1:10,560	1948	12
Ordnance Survey Plan	1:10,000	1961	13
Ordnance Survey Plan	1:10,000	1968	14
Ordnance Survey Plan	1:10,000	1975	15
Ordnance Survey Plan	1:10,000	1991	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2016	18

Historical Map - Slice D



Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport, Manston, RAMSGATE, Kent, CT12 5BL

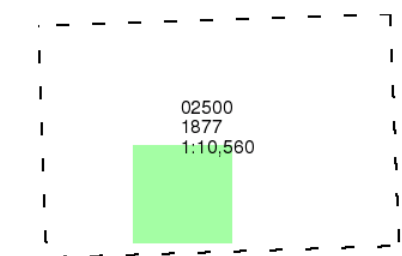
Kent

Published 1877

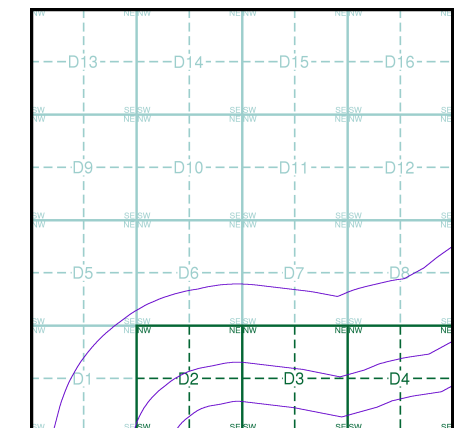
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice D

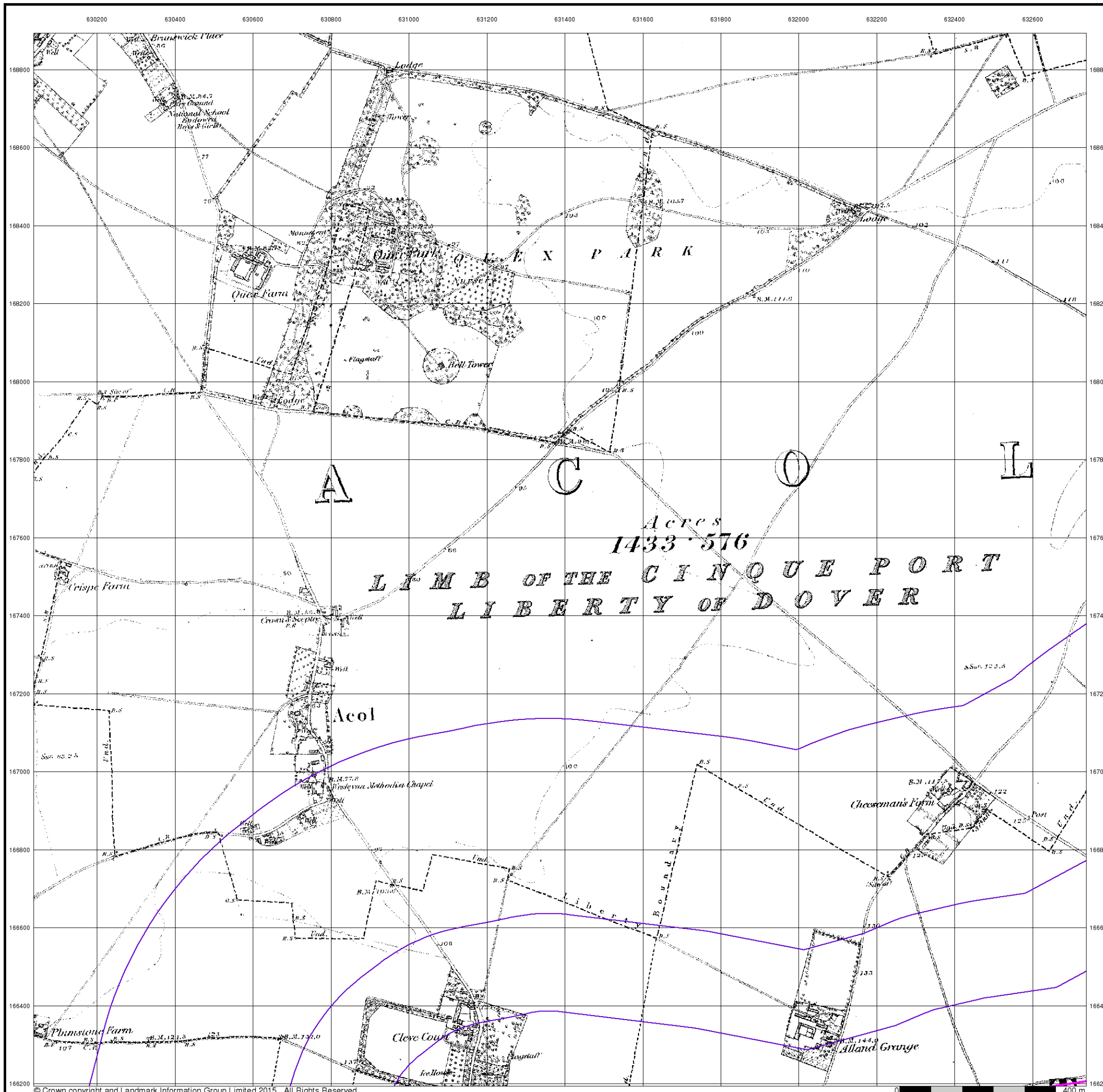


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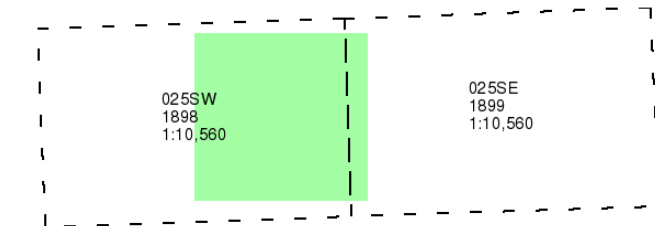
Kent

Published 1898 - 1899

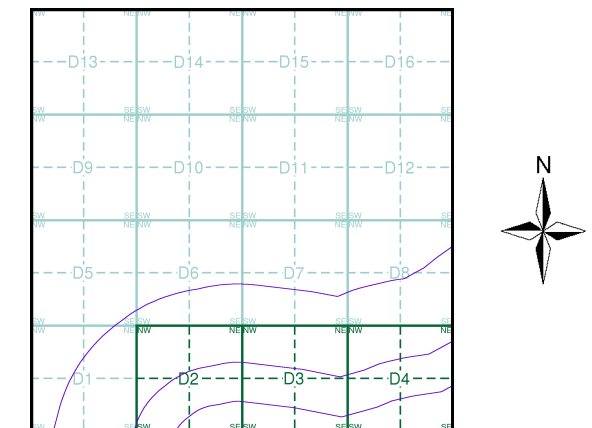
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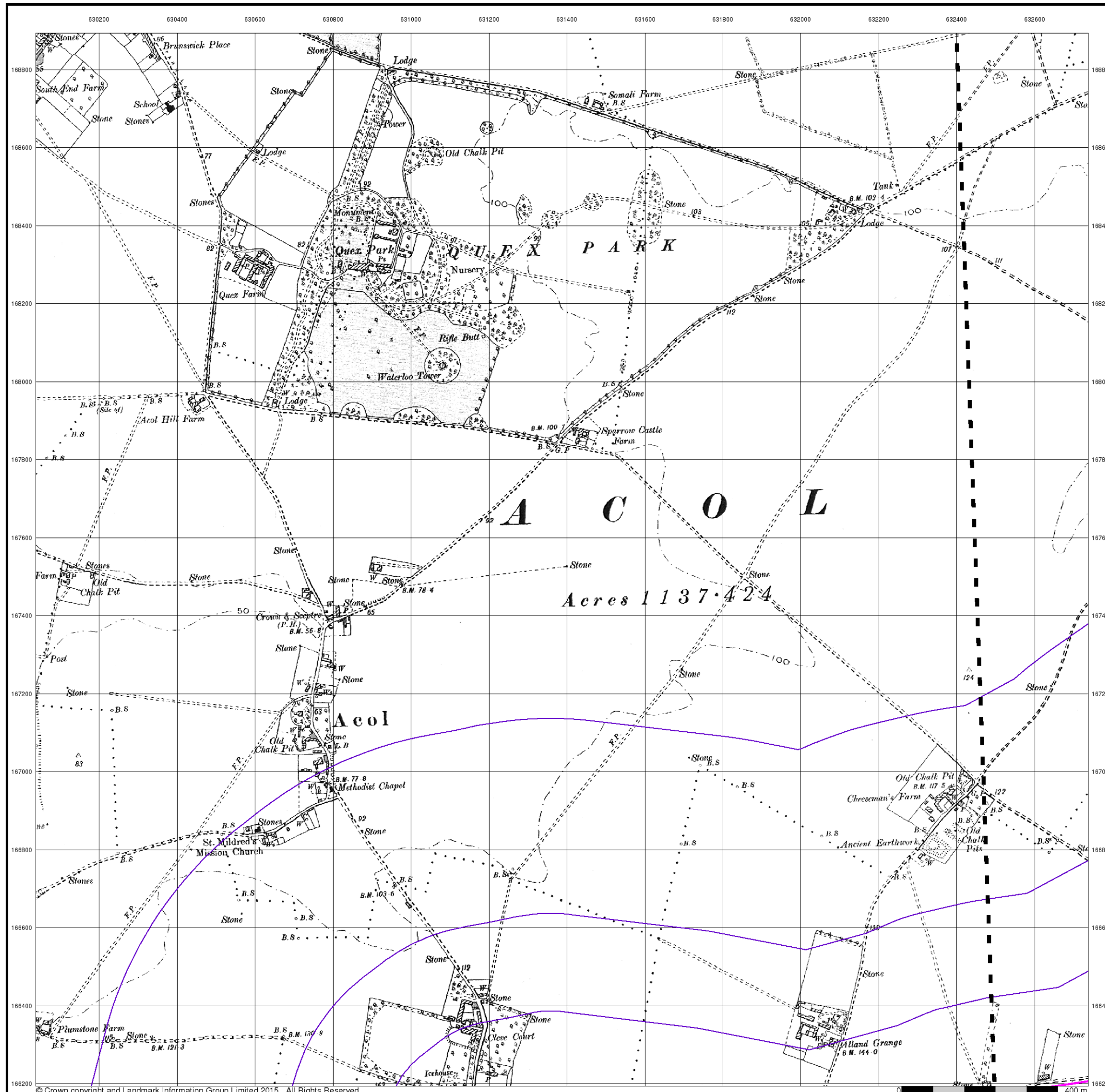


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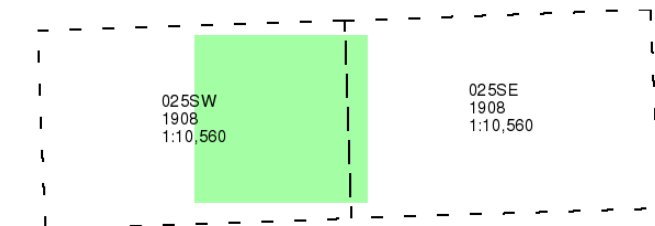
Kent

Published 1908

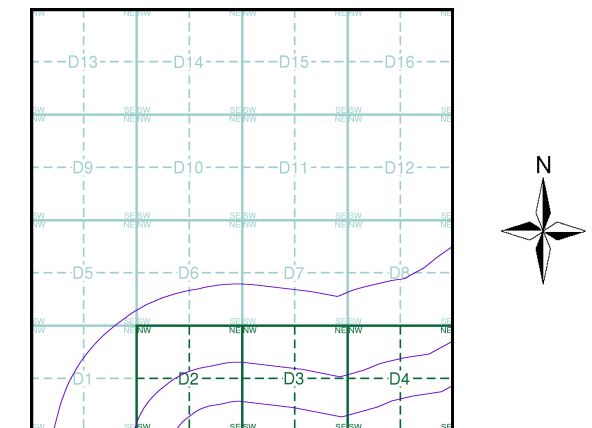
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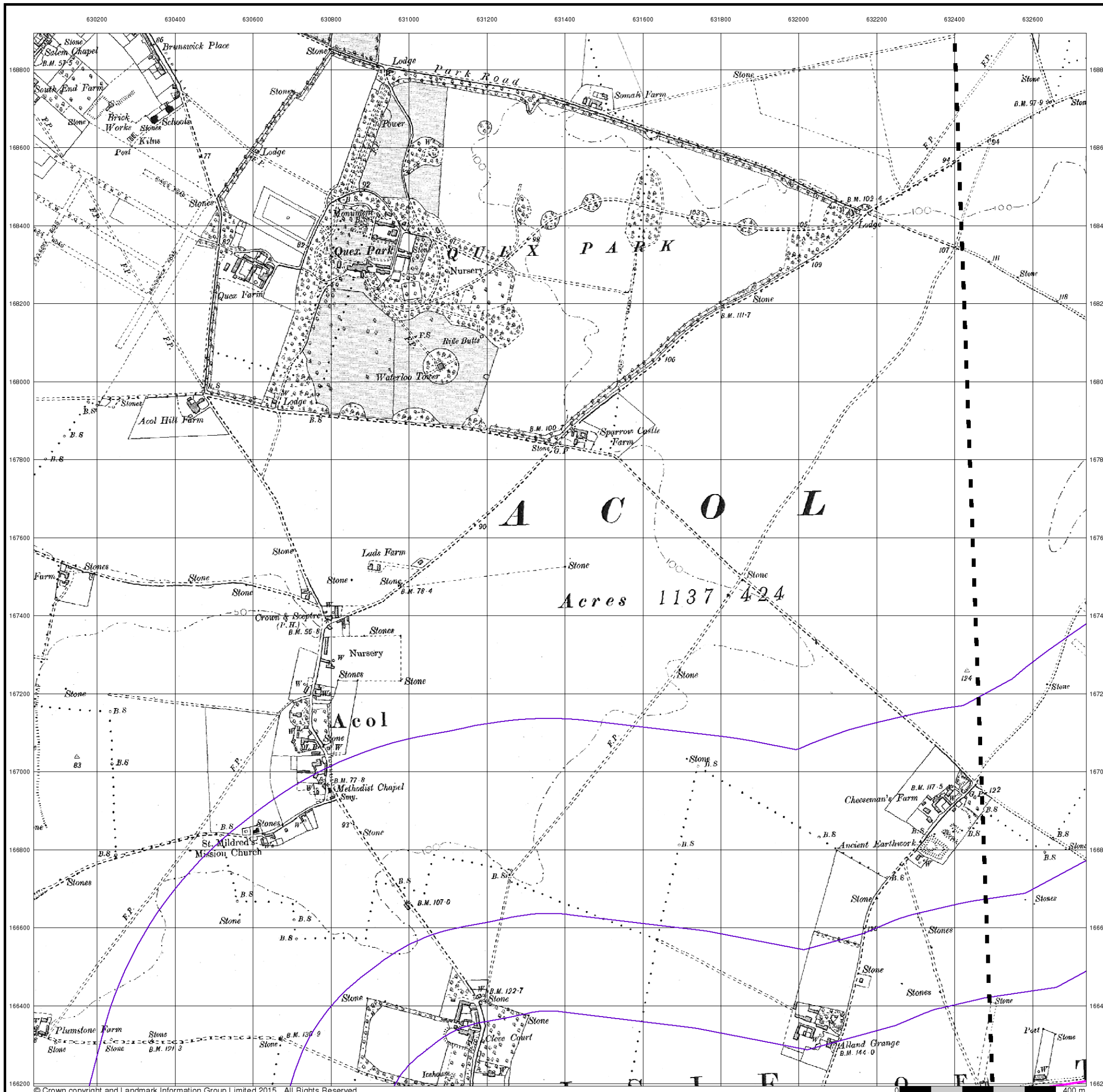


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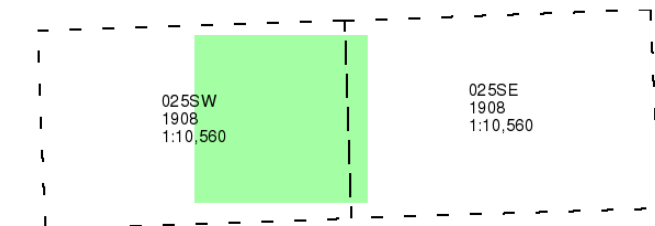
Kent

Published 1908

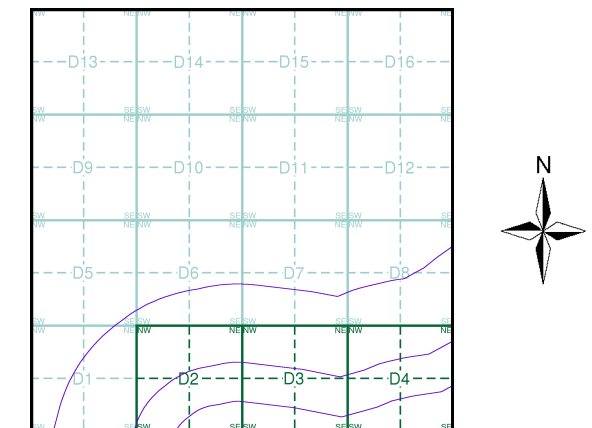
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Map Name(s) and Date(s)



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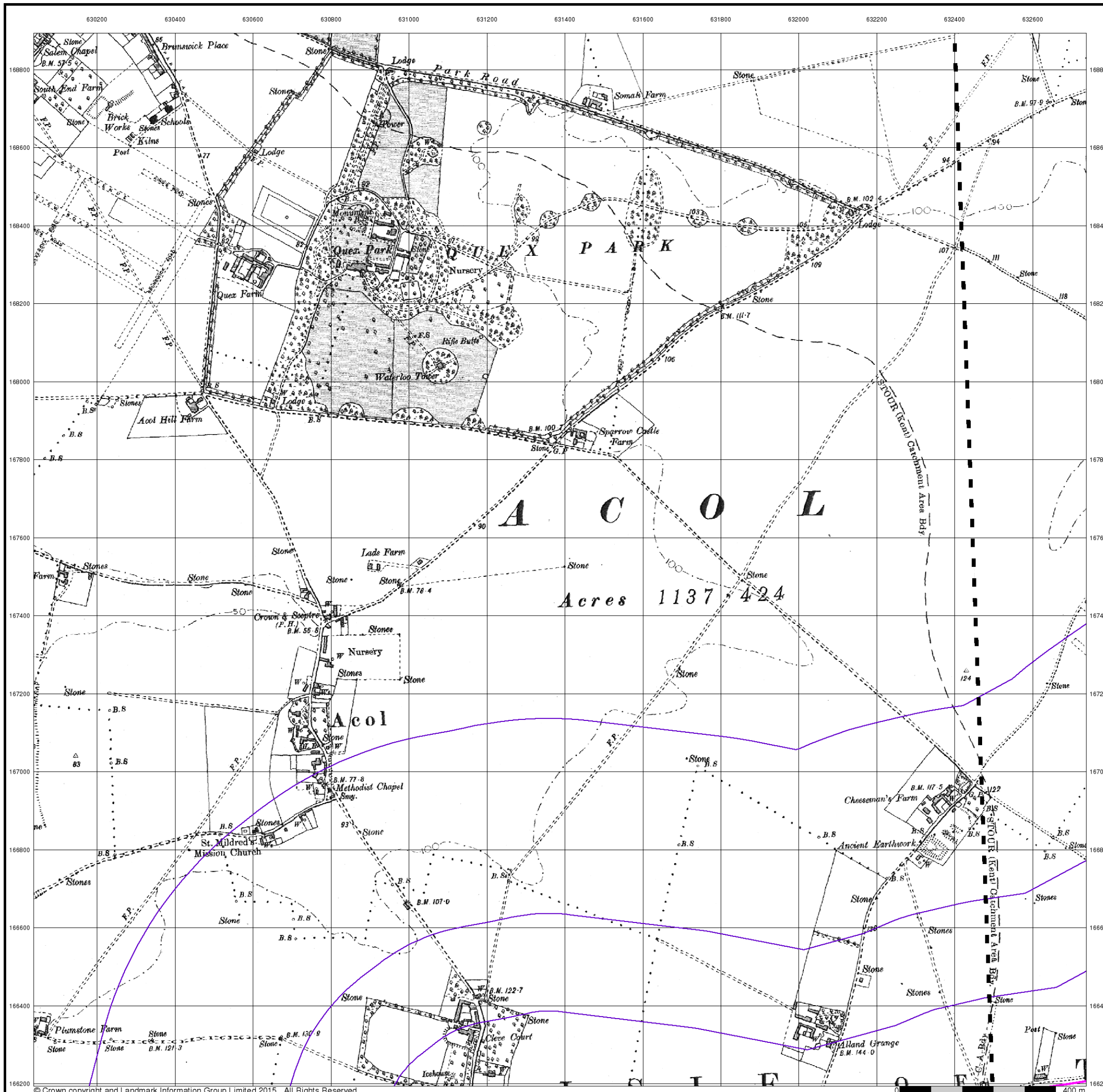


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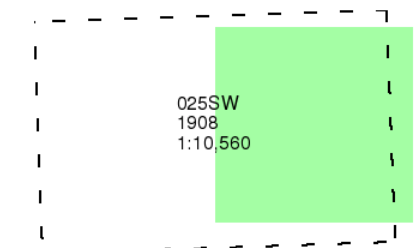
Kent

Published 1908

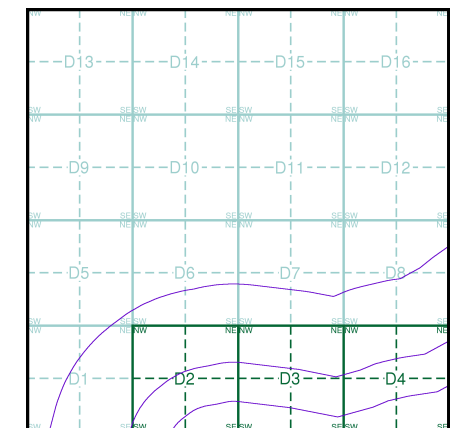
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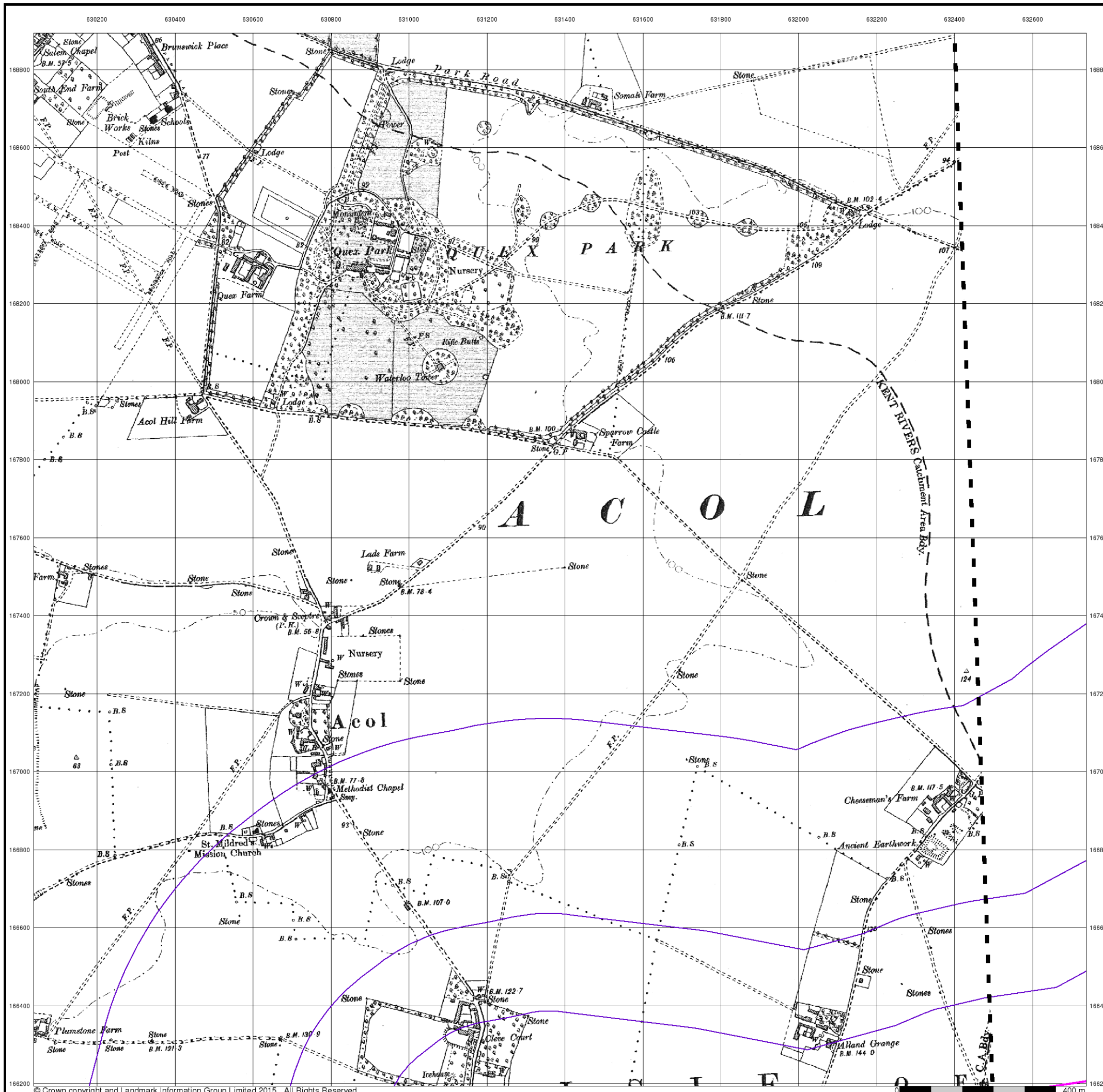


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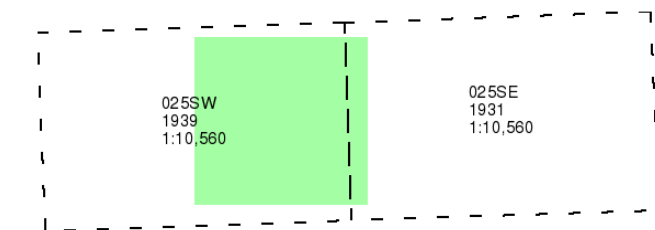
Kent

Published 1931 - 1939

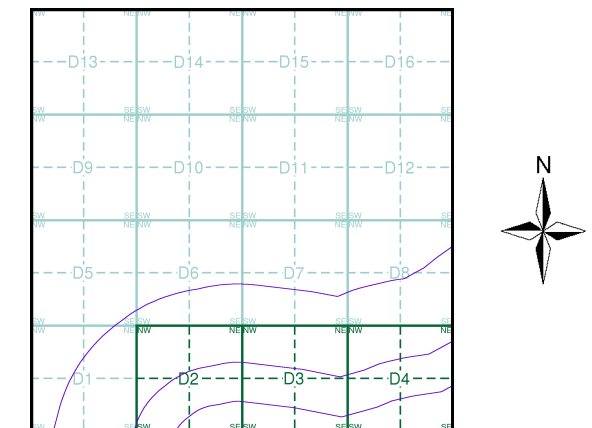
Source map scale - 1:10,560

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Map Name(s) and Date(s)



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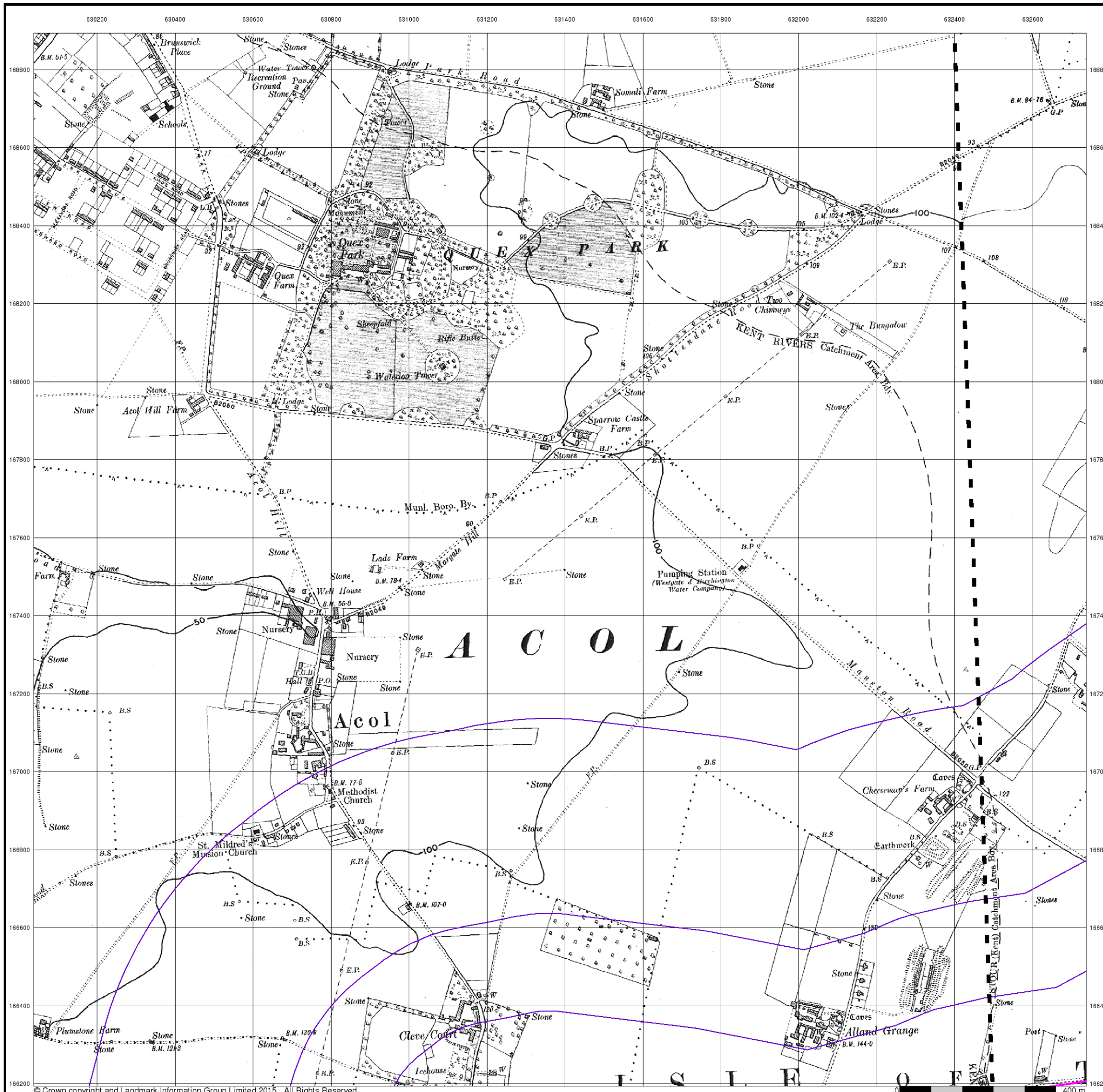


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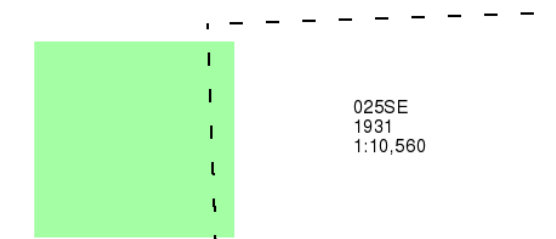
Kent

Published 1931

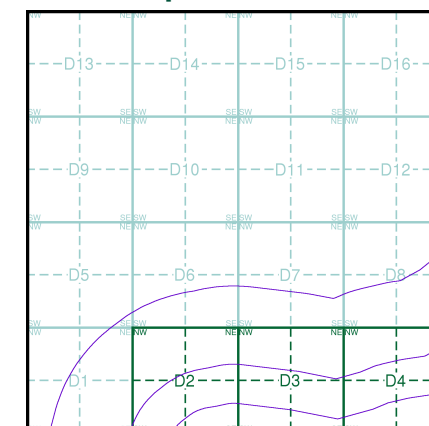
Source map scale - 1:10,560

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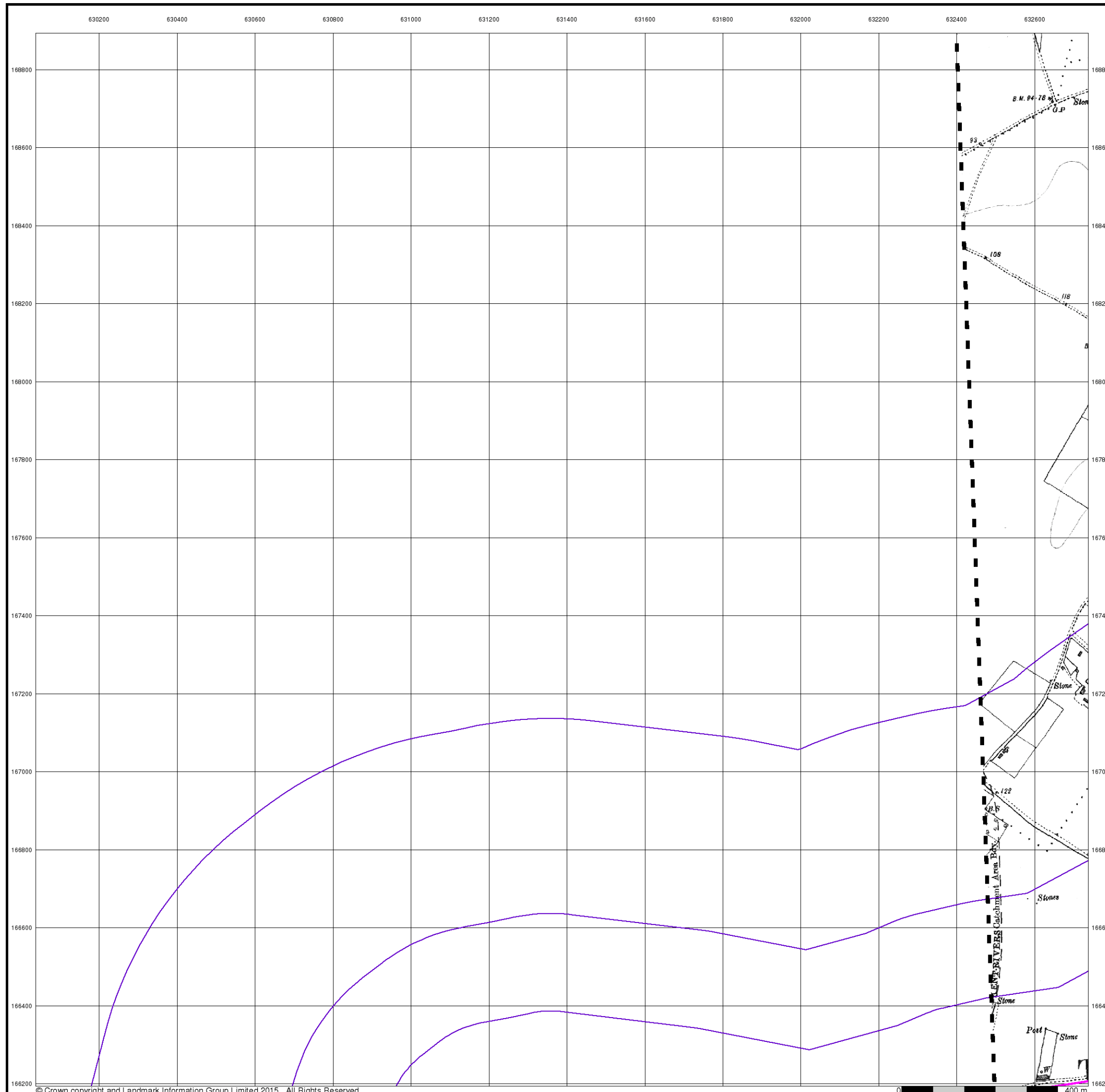


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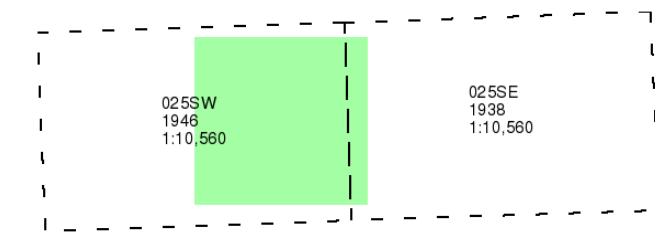
Kent

Published 1938 - 1946

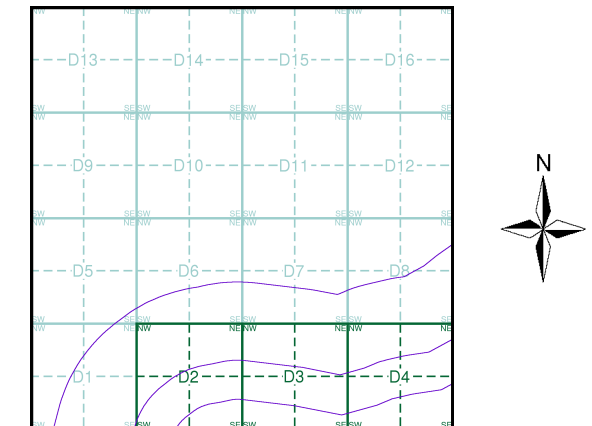
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice D

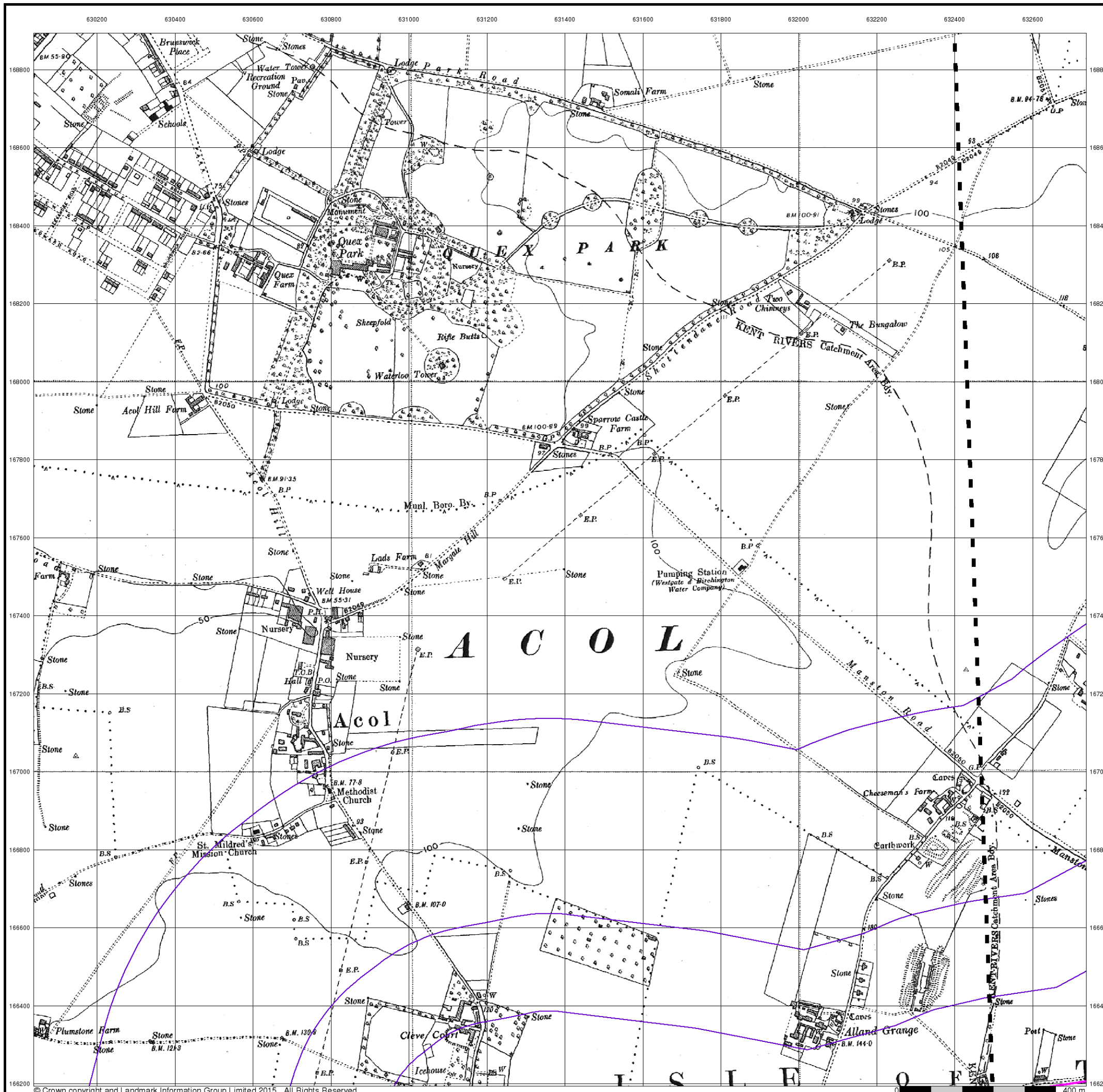


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Historical Aerial Photography

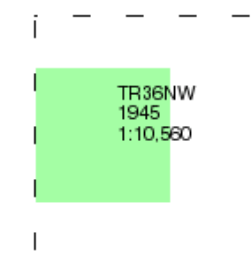
Published 1945

Source map scale - 1:10,560

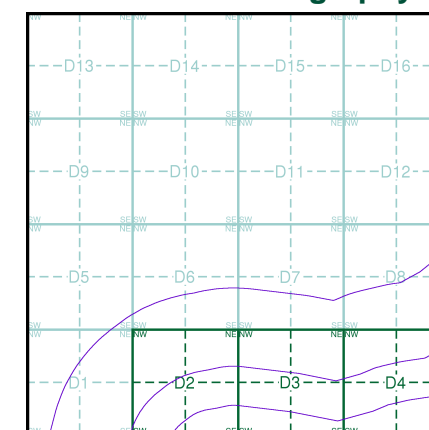
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice D

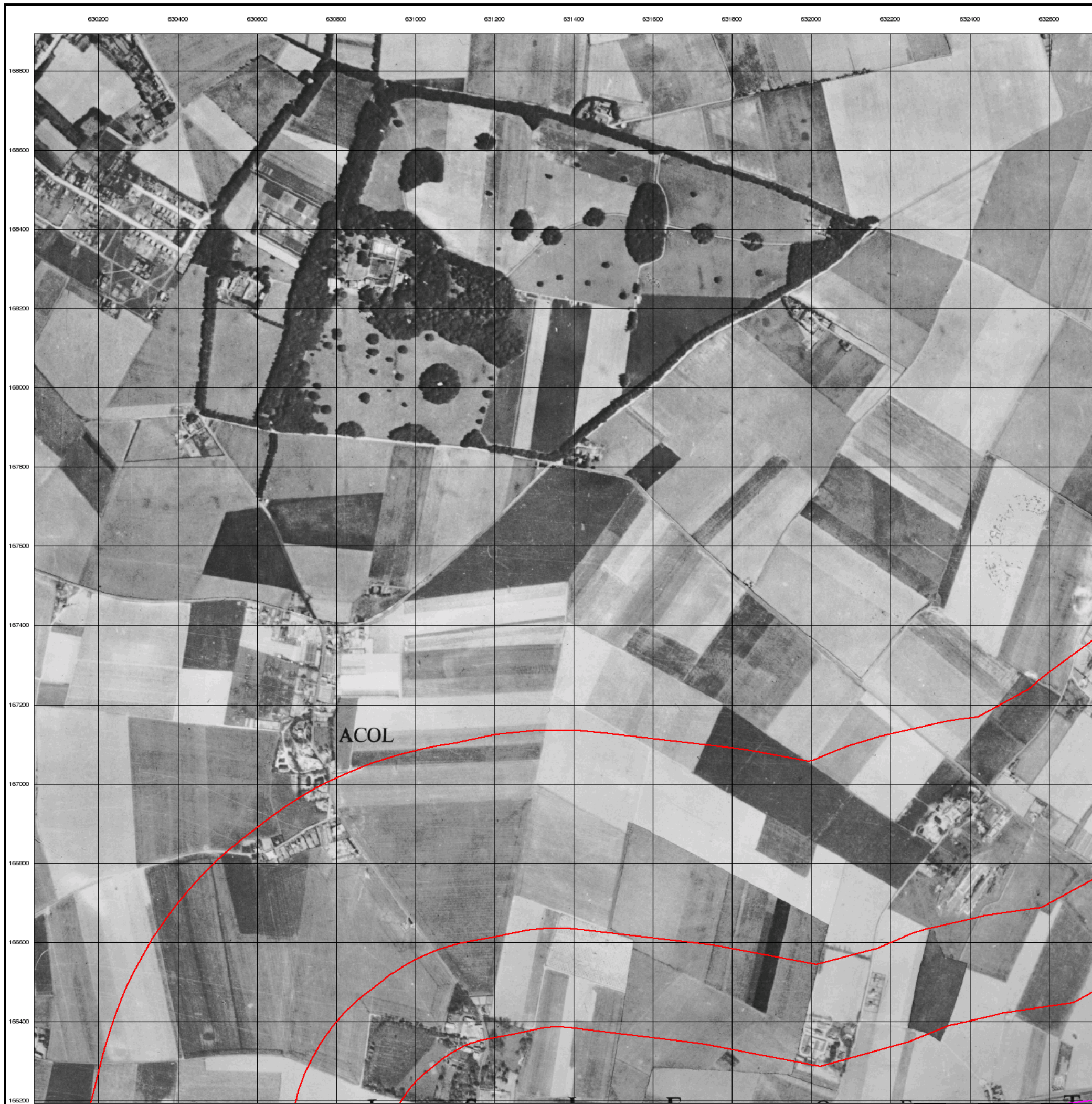


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



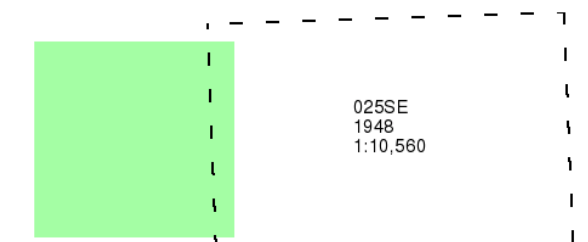
Kent

Published 1948

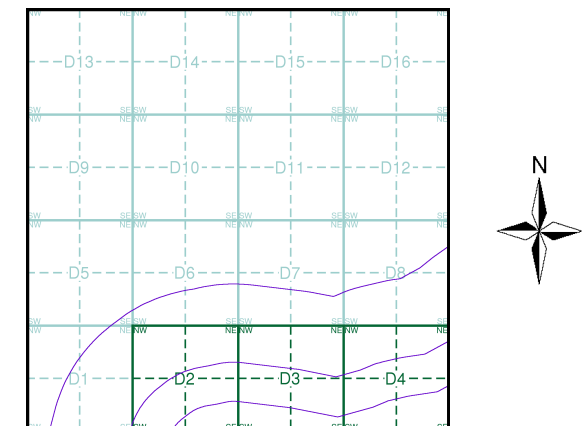
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice D

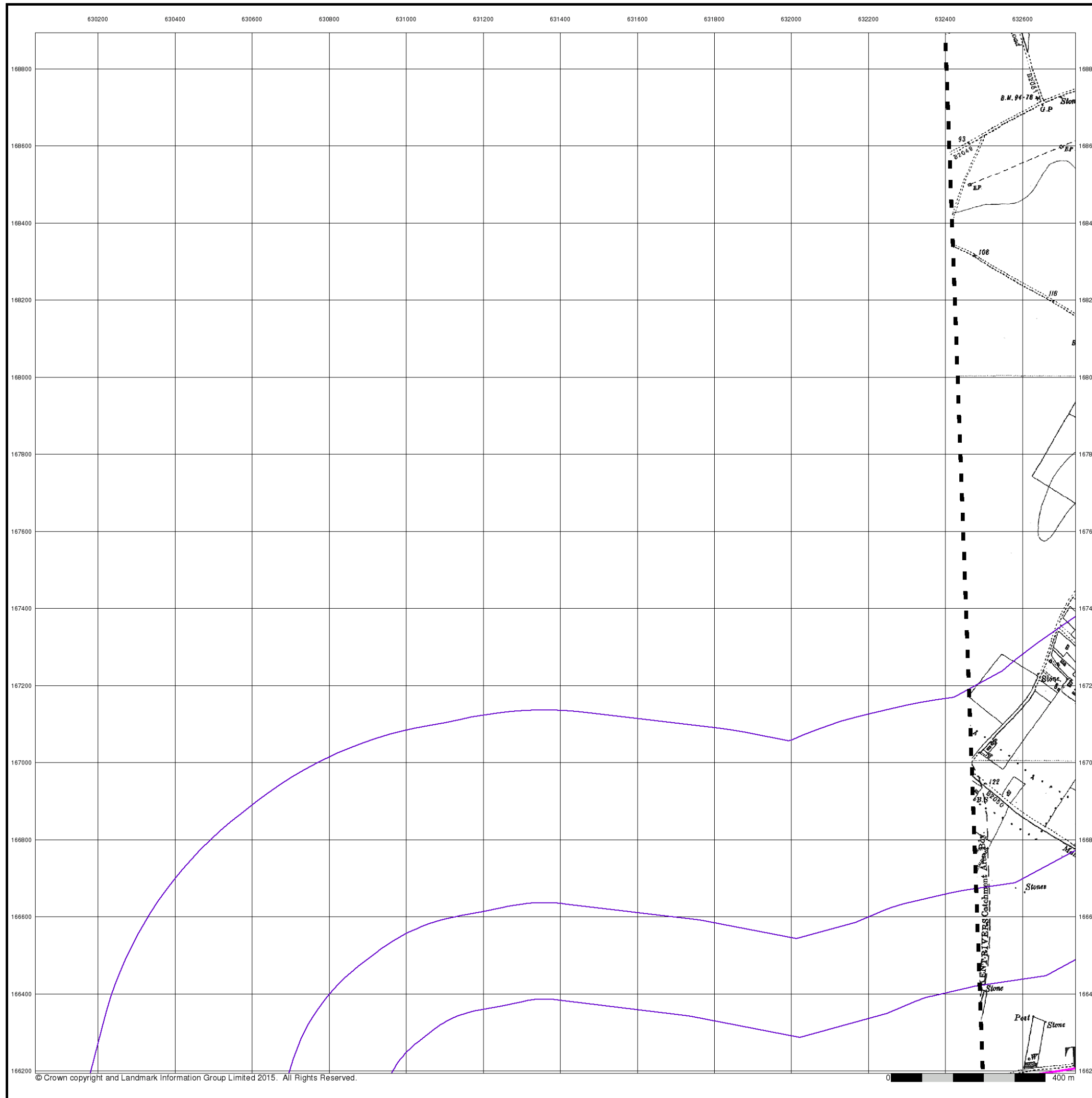


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Historical Aerial Photography

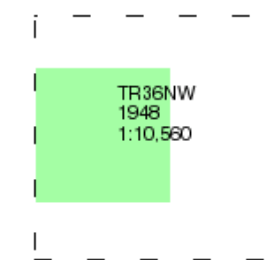
Published 1948

Source map scale - 1:10,560

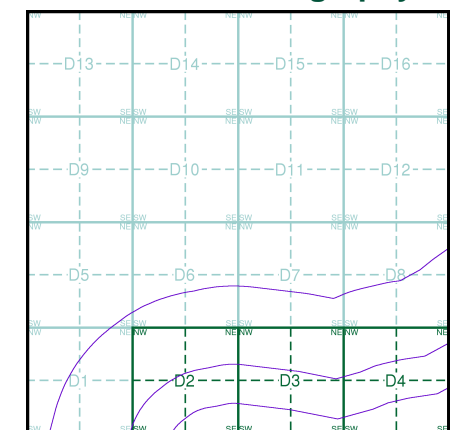
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice D

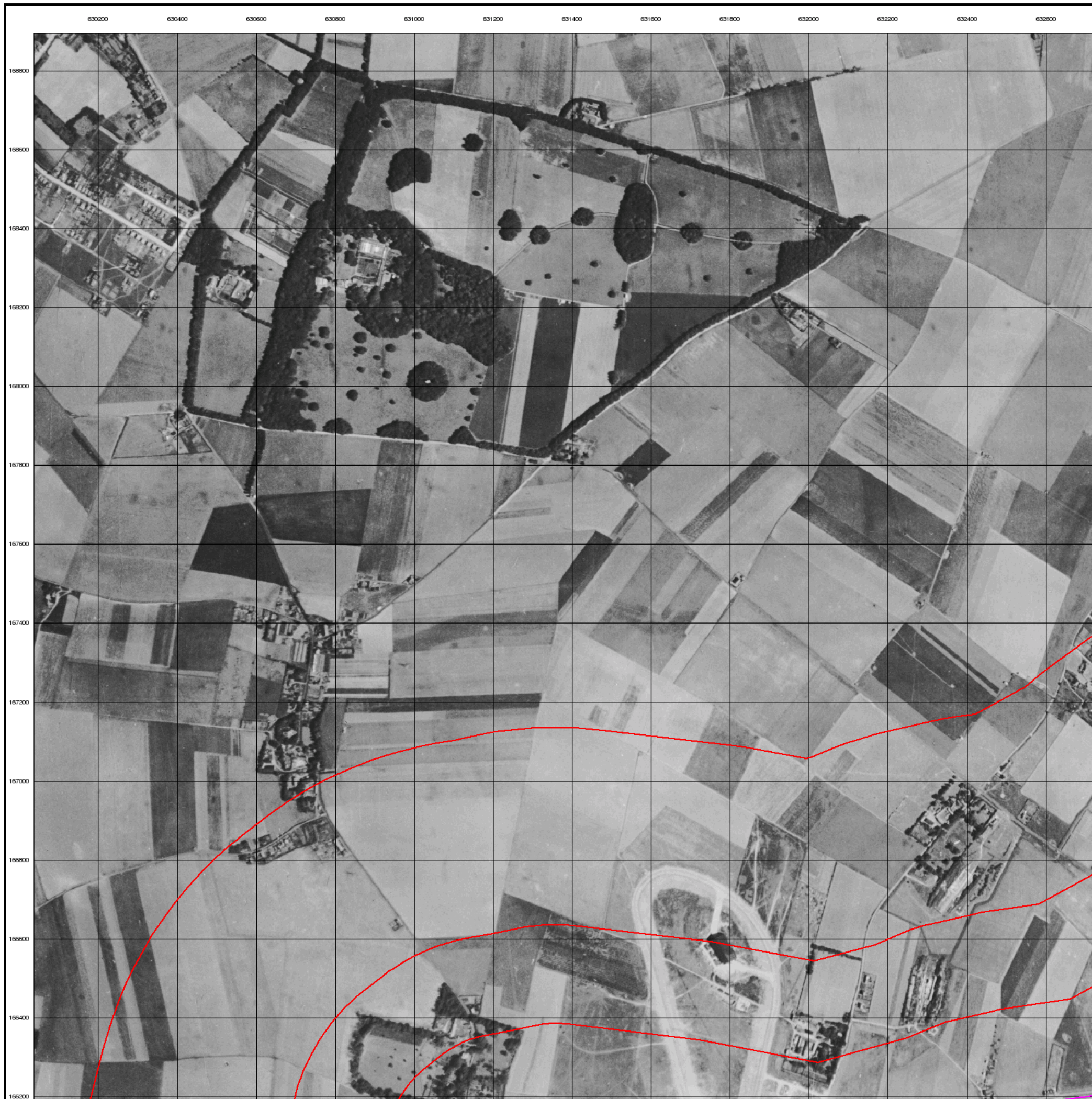


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



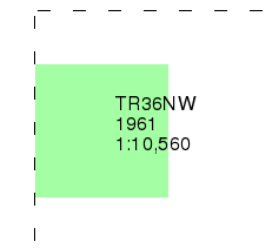
Ordnance Survey Plan

Published 1961

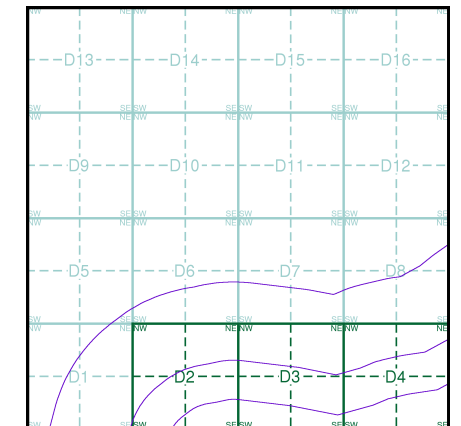
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice D

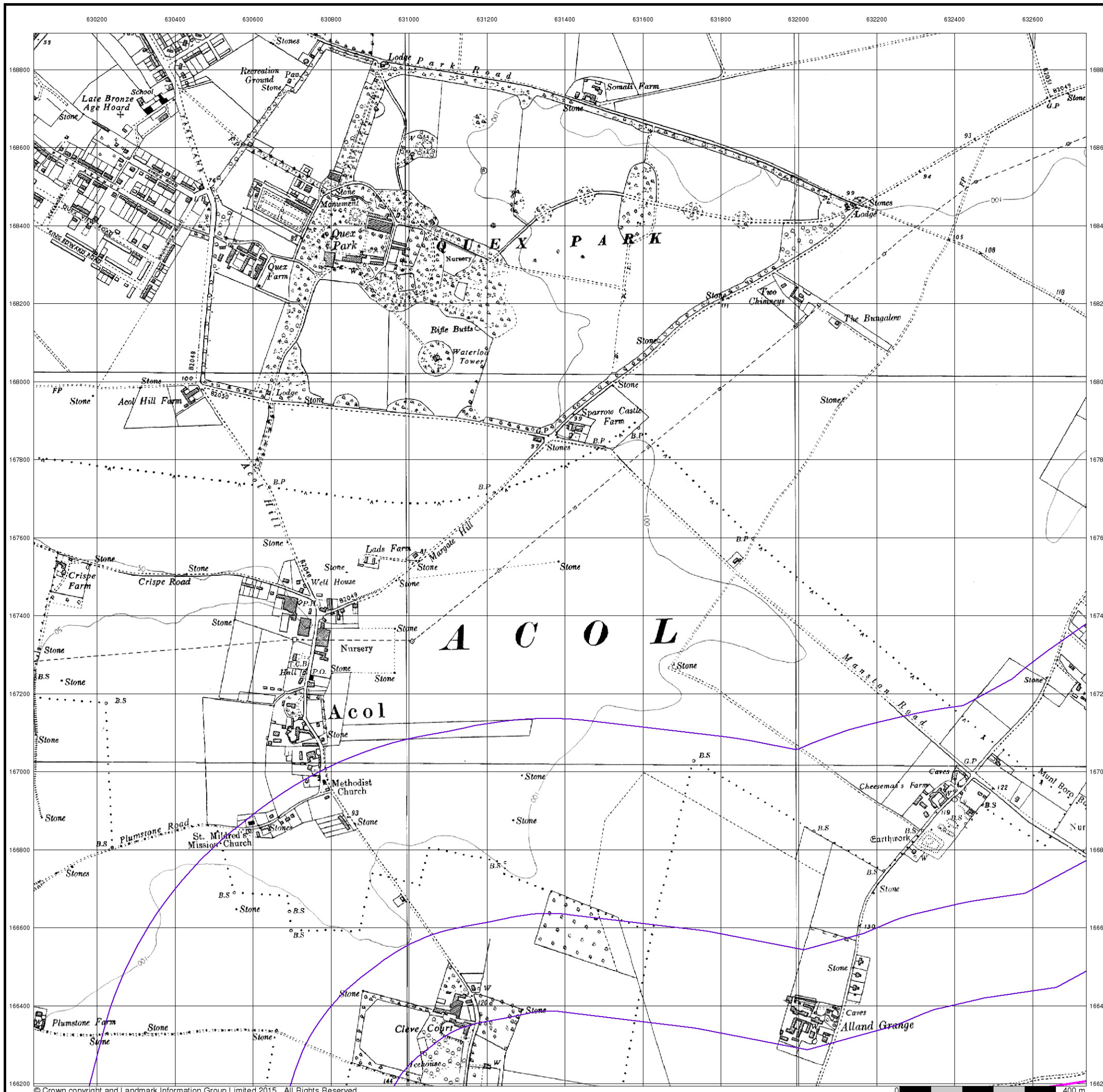


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



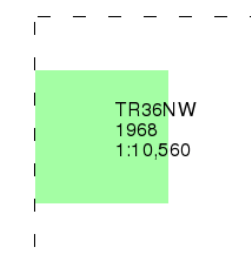
Ordnance Survey Plan

Published 1968

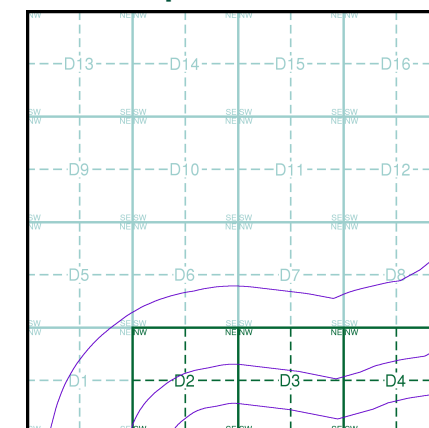
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice D

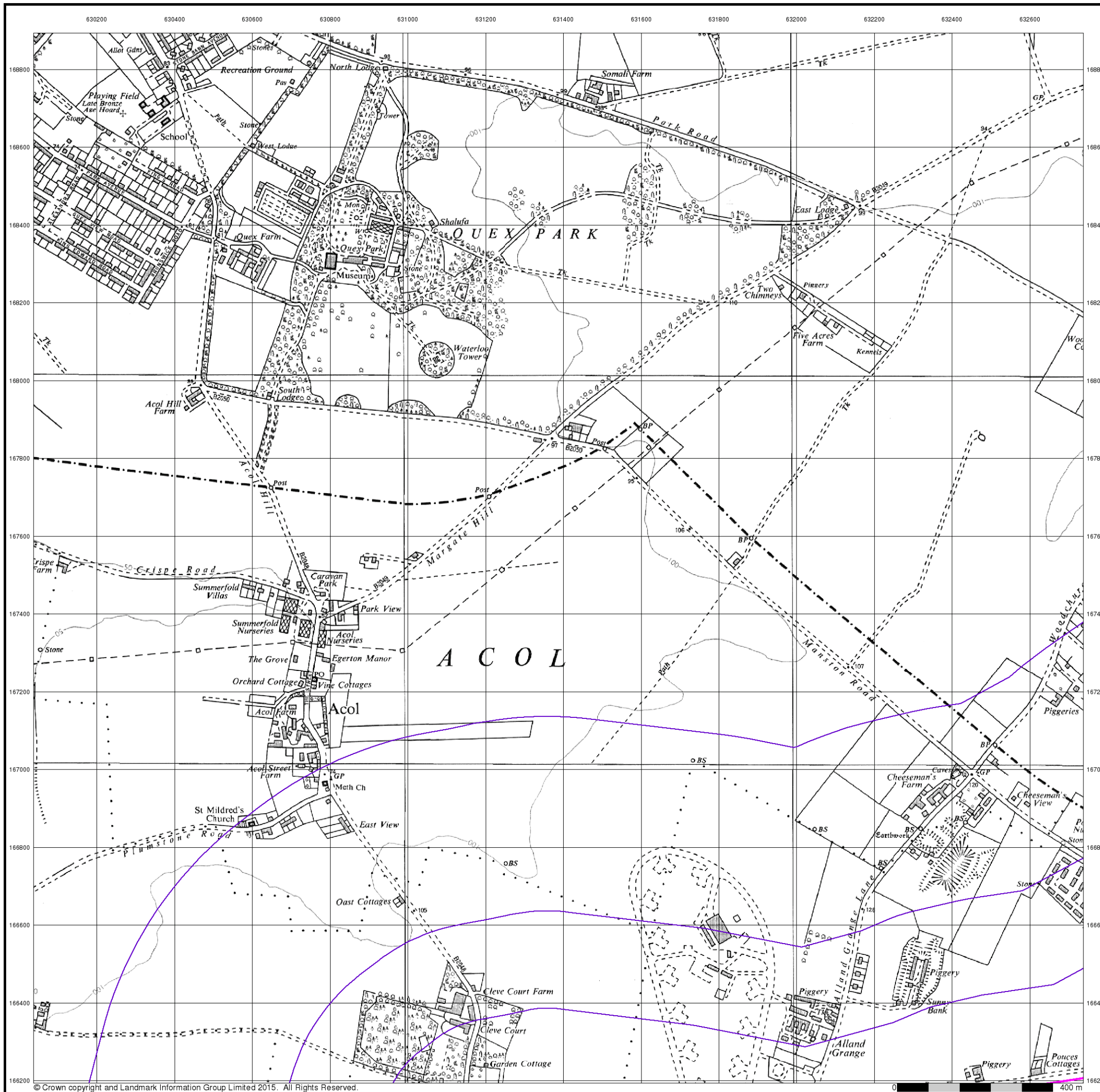


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
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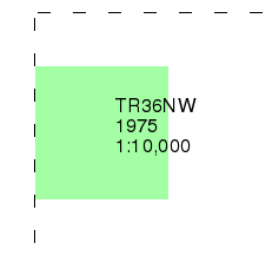
Ordnance Survey Plan

Published 1975

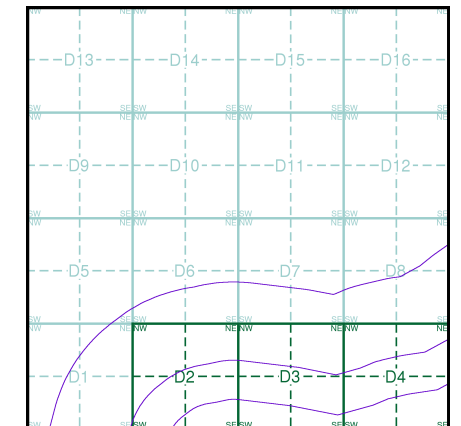
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice D

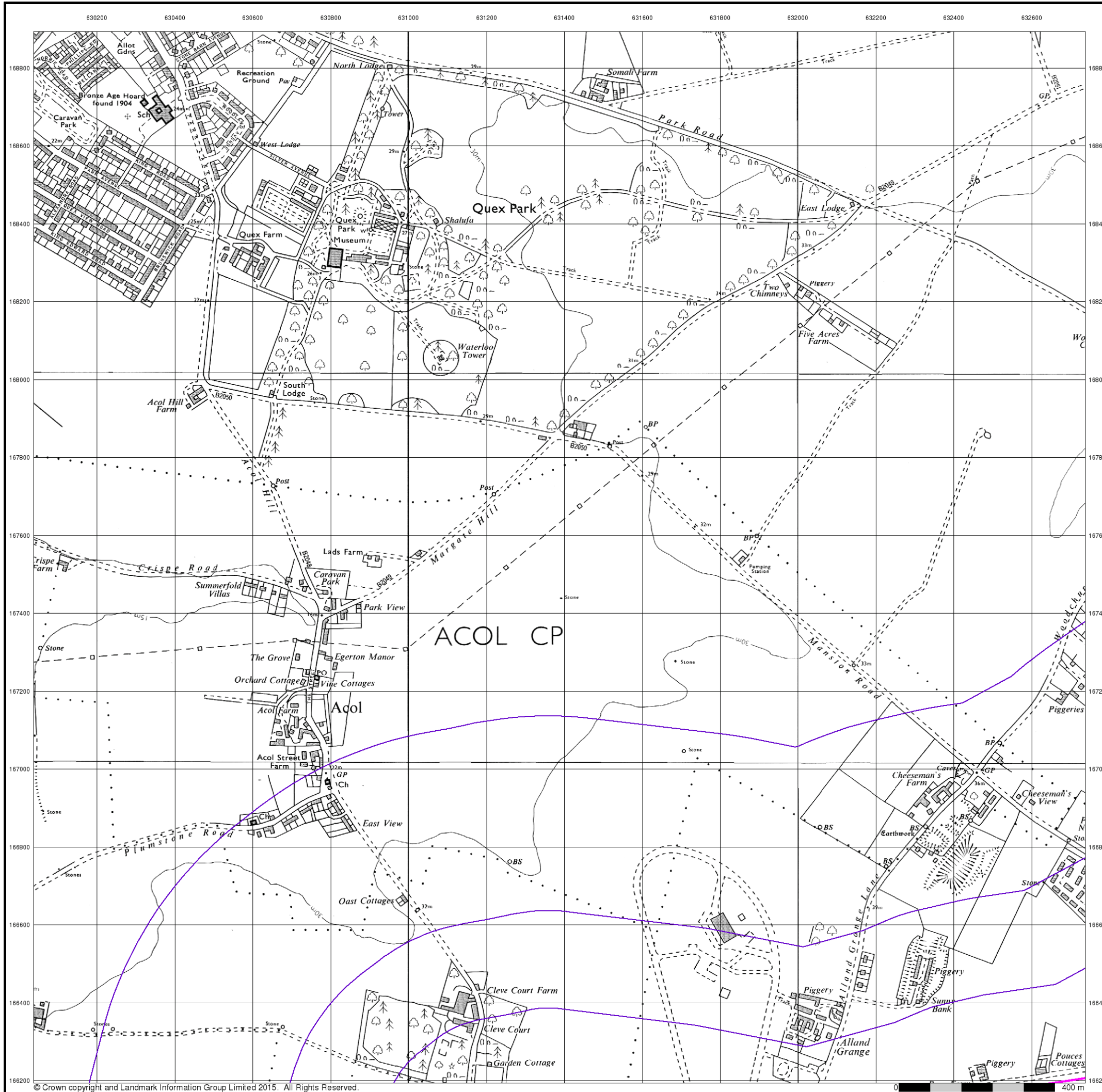


Order Details

Order Number: 82787389_1_1
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 Slice: D
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Site Details

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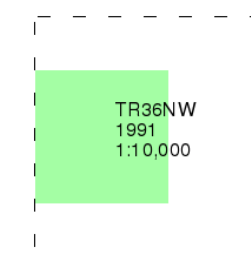
Ordnance Survey Plan

Published 1991

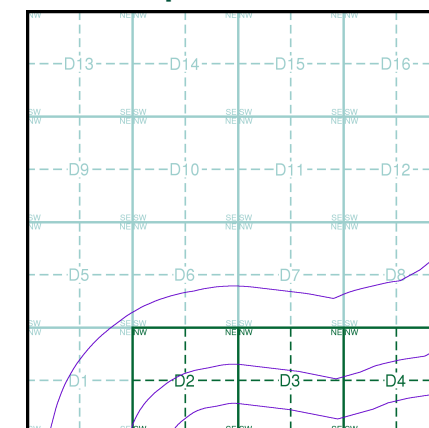
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice D

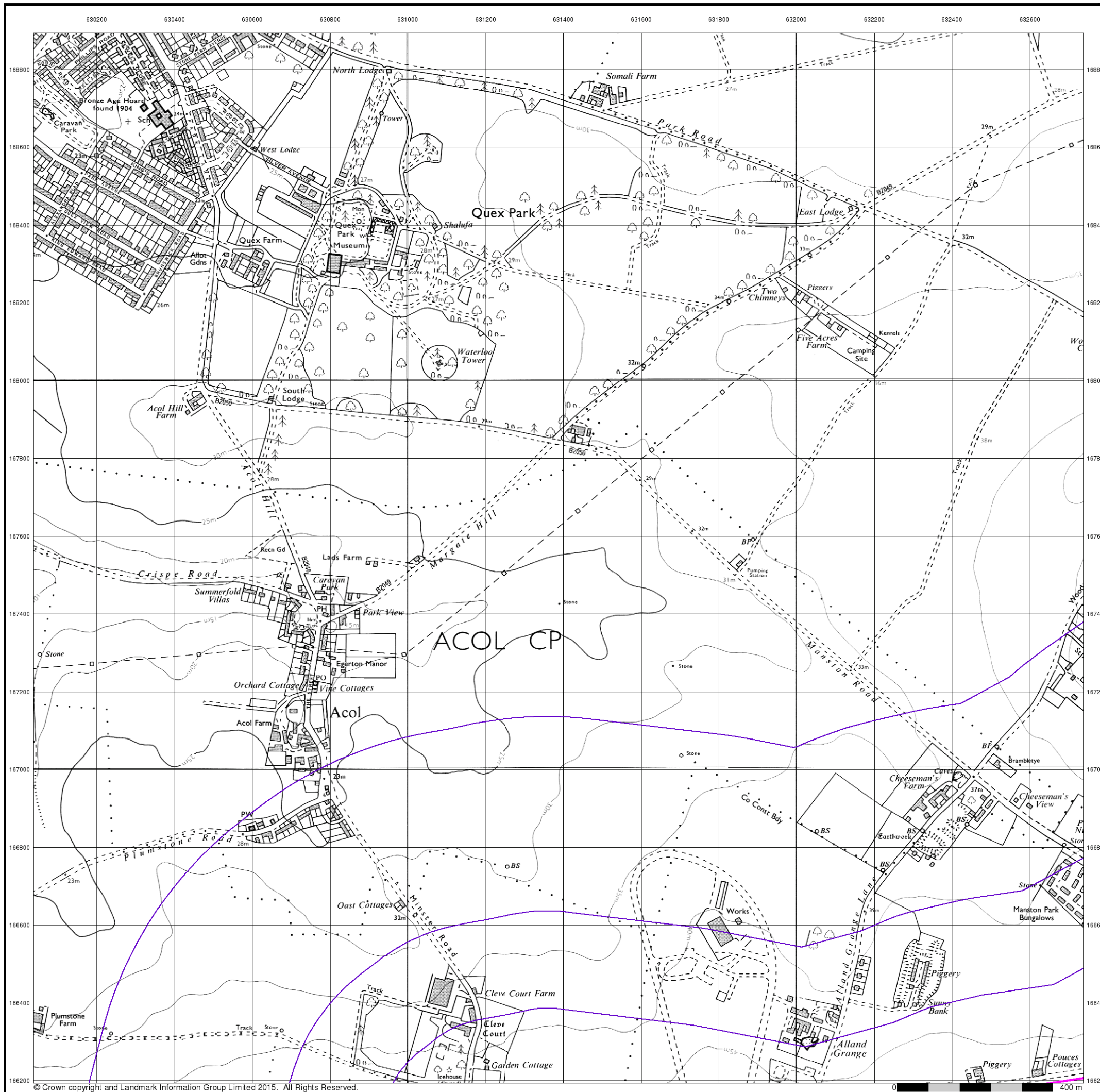


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



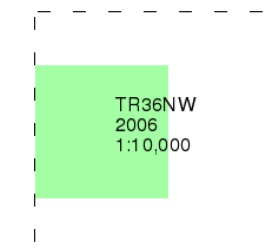
10k Raster Mapping

Published 2006

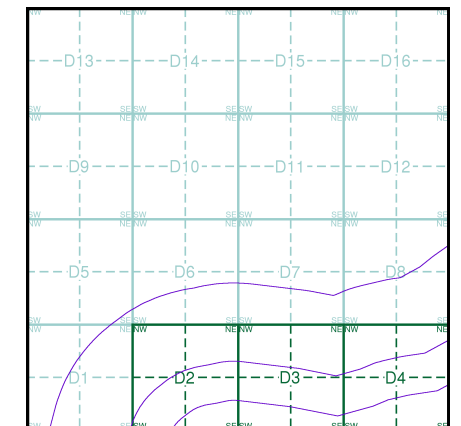
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice D

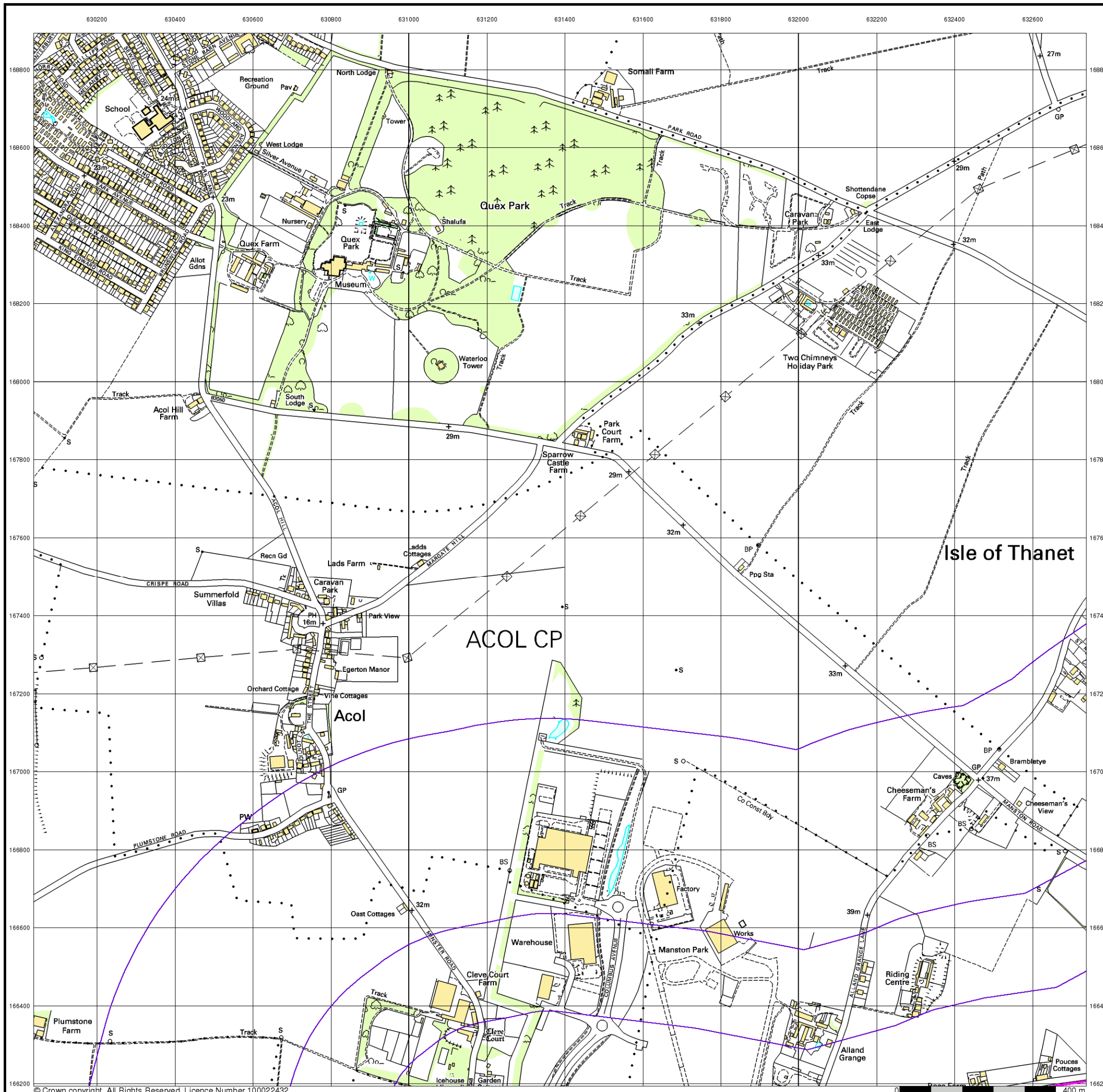


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



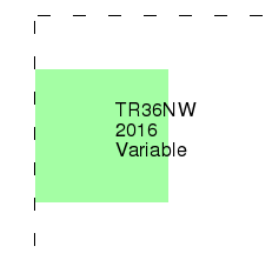
VectorMap Local

Published 2016

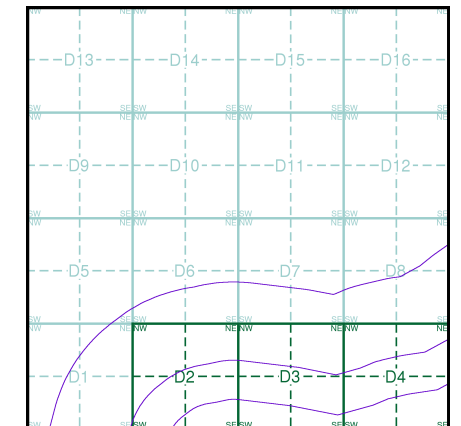
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

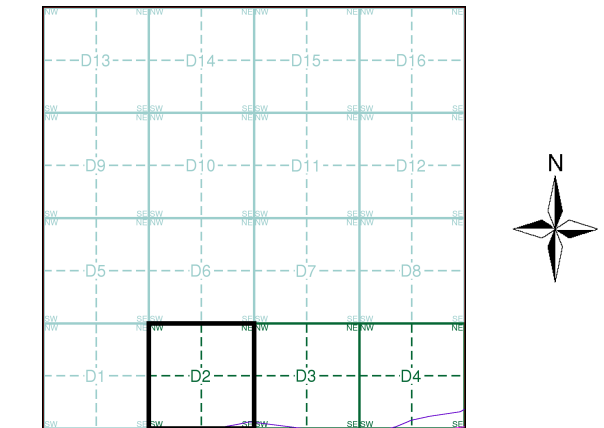
Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Segment D2

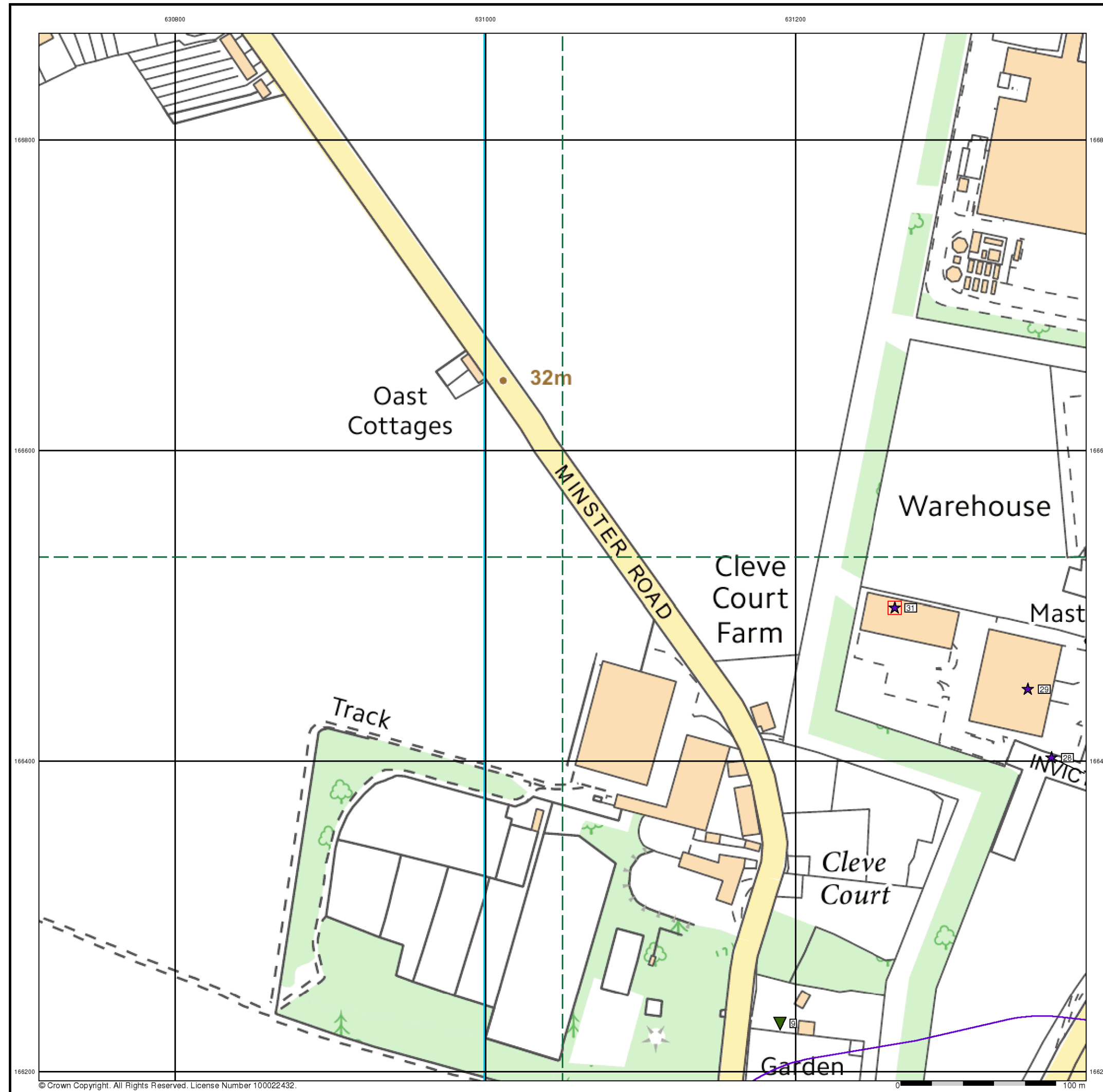


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39

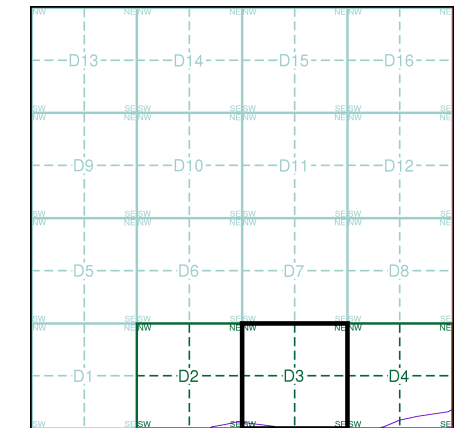
Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- | | |
|--|---|
| <p>Agency and Hydrological</p> <ul style="list-style-type: none"> Contaminated Land Register Entry or Notice (Location) Contaminated Land Register Entry or Notice Discharge Consent Enforcement or Prohibition Notice Integrated Pollution Control Integrated Pollution Prevention Control Local Authority Integrated Pollution Prevention and Control Local Authority Pollution Prevention and Control Local Authority Pollution Prevention and Control Enforcement Pollution Incident to Controlled Waters Prosecution Relating to Authorised Processes Prosecution Relating to Controlled Waters Registered Radioactive Substance River Network or Water Feature River Quality Sampling Point Substantiated Pollution Incident Register Water Abstraction Water Industry Act Referral | <p>Waste</p> <ul style="list-style-type: none"> BGS Recorded Landfill Site (Location) BGS Recorded Landfill Site EA Historic Landfill (Buffered Point) EA Historic Landfill (Polygon) Integrated Pollution Control Registered Waste Site Licensed Waste Management Facility (Landfill Boundary) Licensed Waste Management Facility (Location) Local Authority Recorded Landfill Site (Location) Local Authority Recorded Landfill Site Registered Landfill Site Registered Landfill Site (Location) Registered Landfill Site (Point Buffered to 100m) Registered Landfill Site (Point Buffered to 250m) Registered Waste Transfer Site (Location) Registered Waste Transfer Site Registered Waste Treatment or Disposal Site (Location) Registered Waste Treatment or Disposal Site |
|--|---|
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment D3

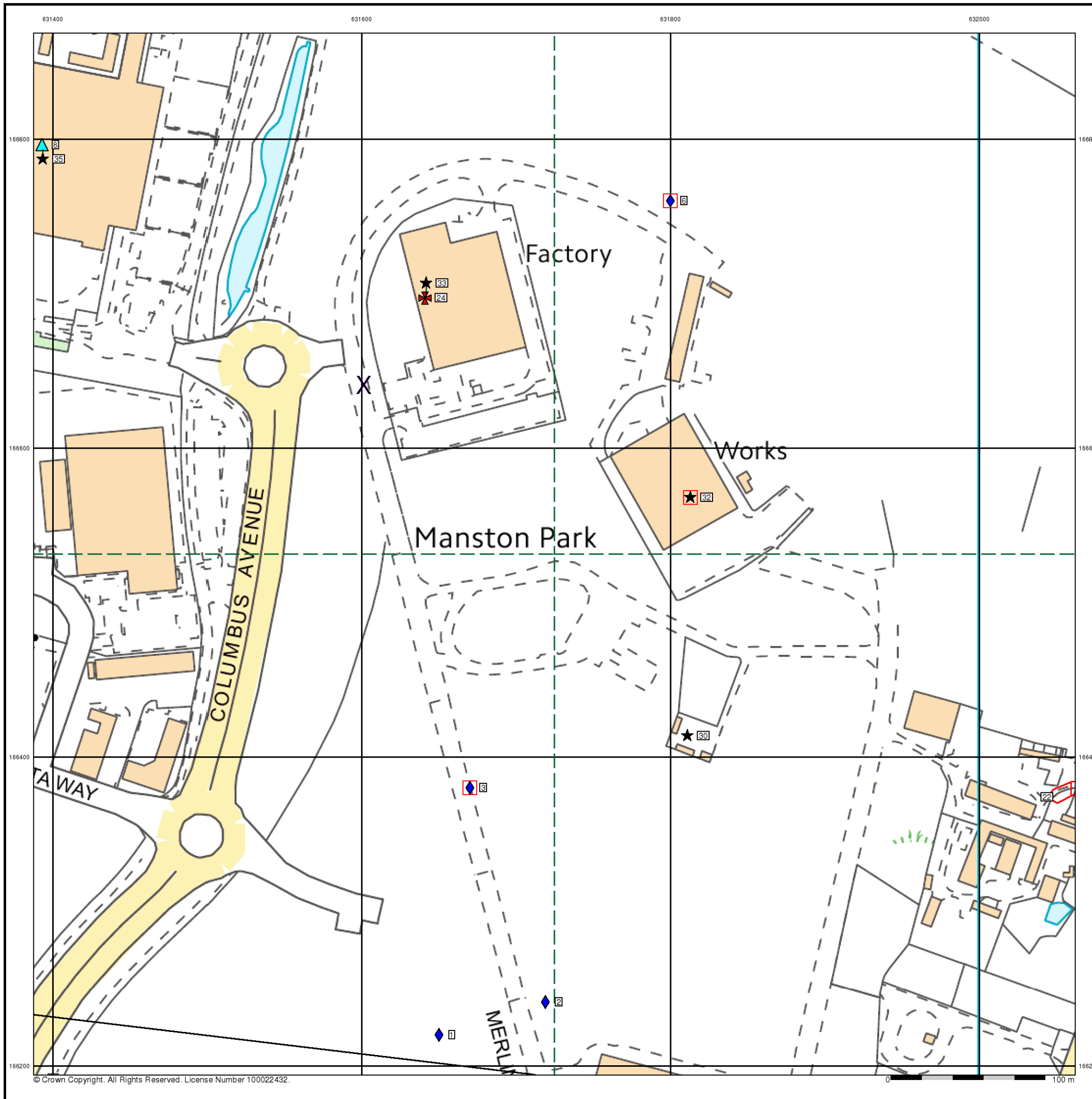


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39

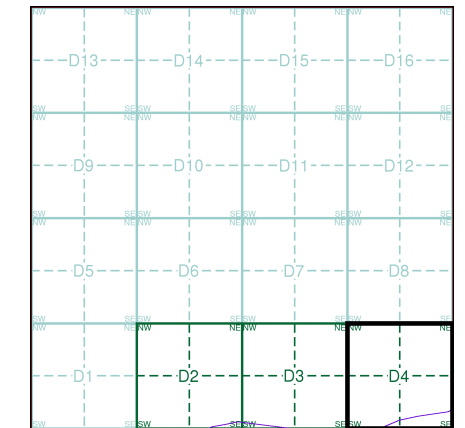
Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
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 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Segment D4

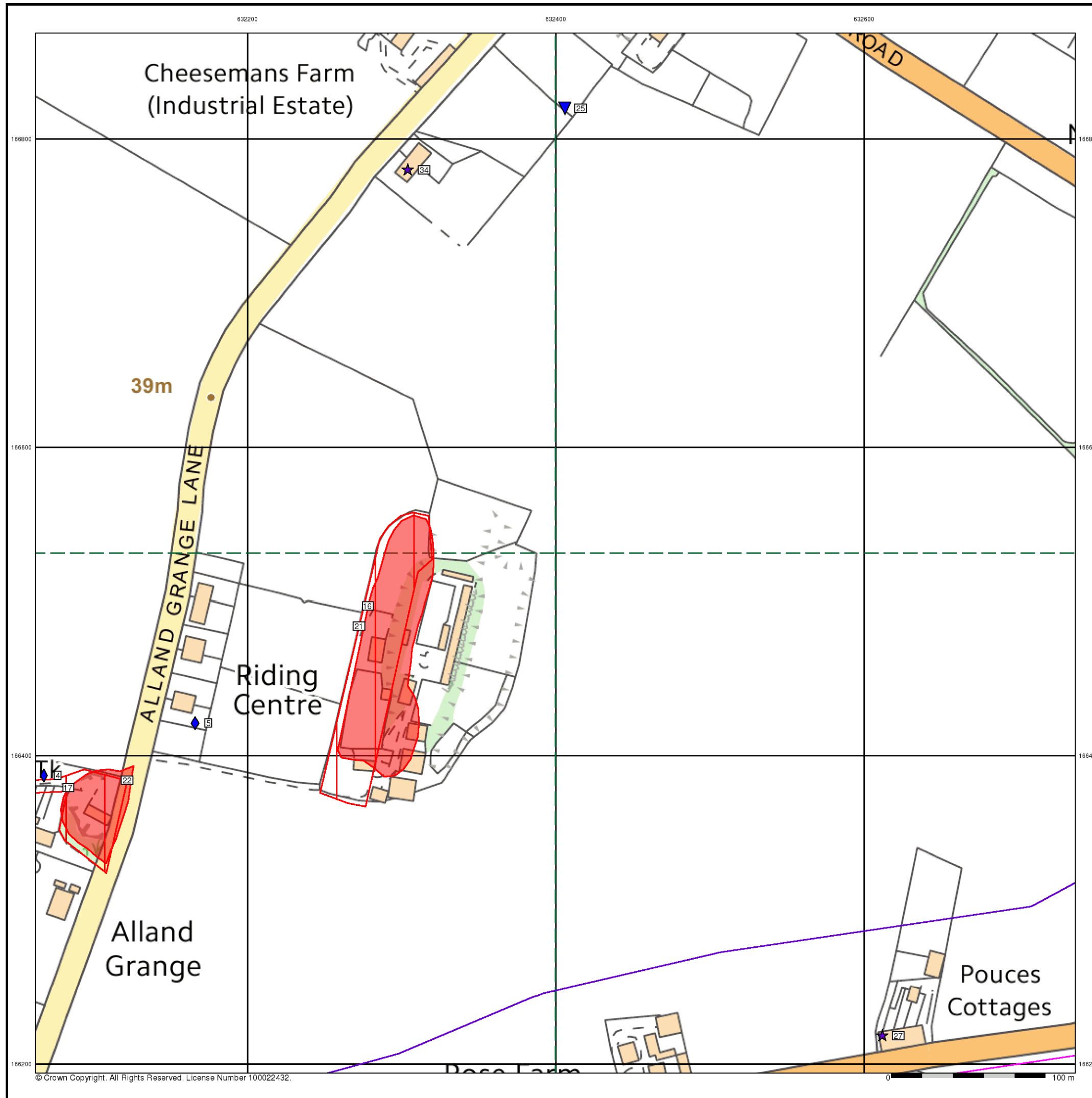


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39

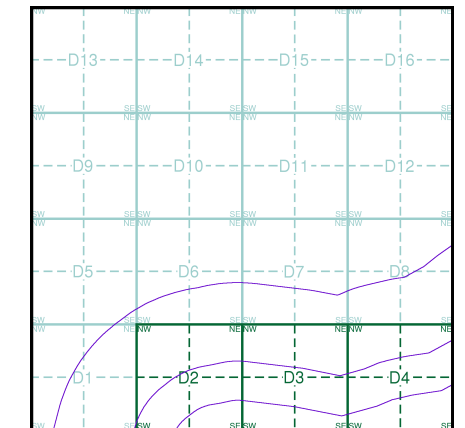
Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
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 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Slice D

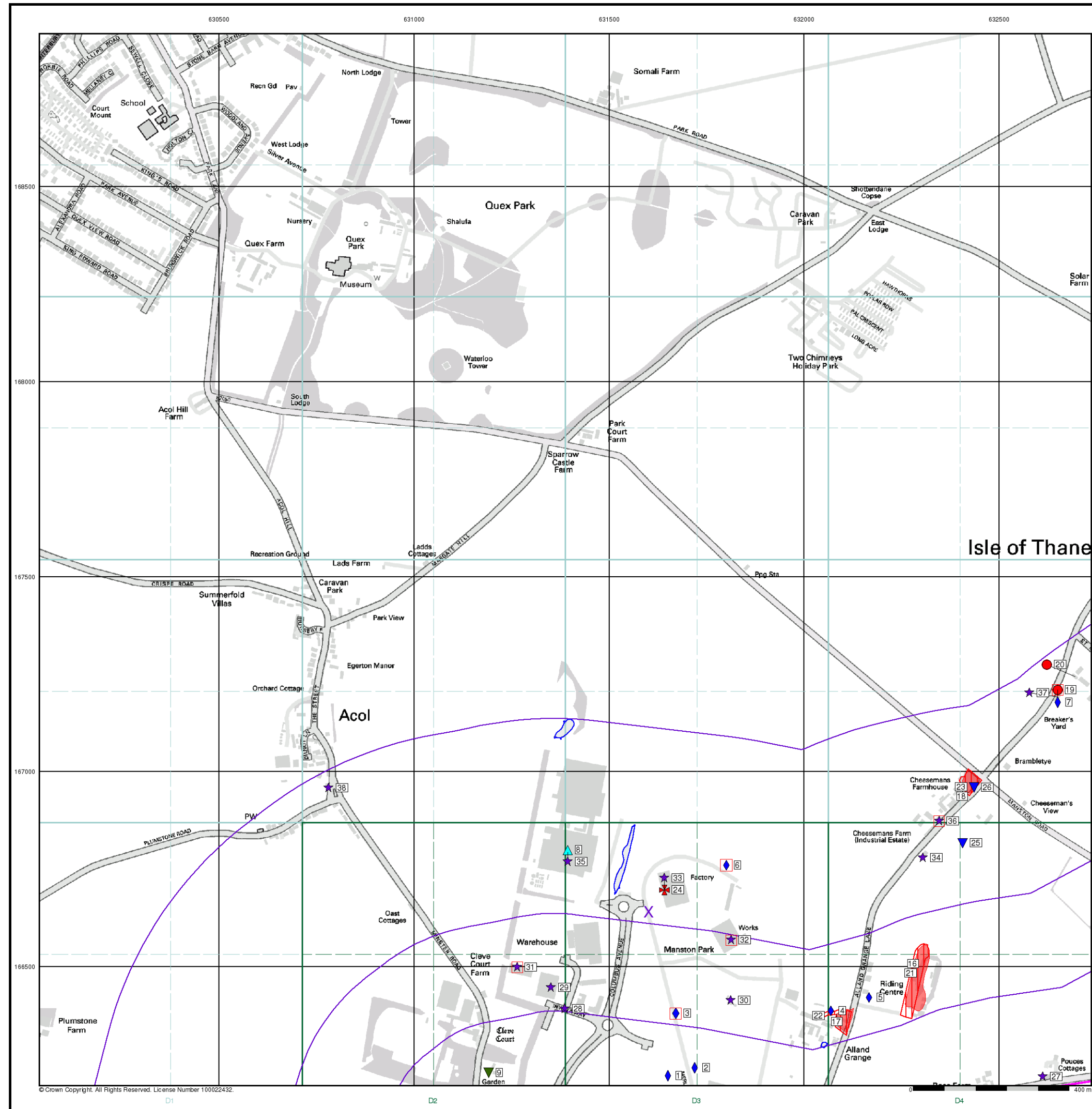


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL








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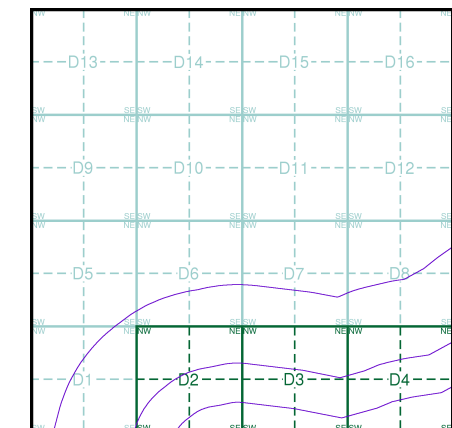
General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Agency and Hydrological (Flood)

-  Extreme Flooding from Rivers or Sea without Defences (Zone 2)
-  Flooding from Rivers or Sea without Defences (Zone 3)
-  Area Benefiting from Flood Defence
-  Flood Water Storage Areas
-  Flood Defence

Flood Map - Slice D

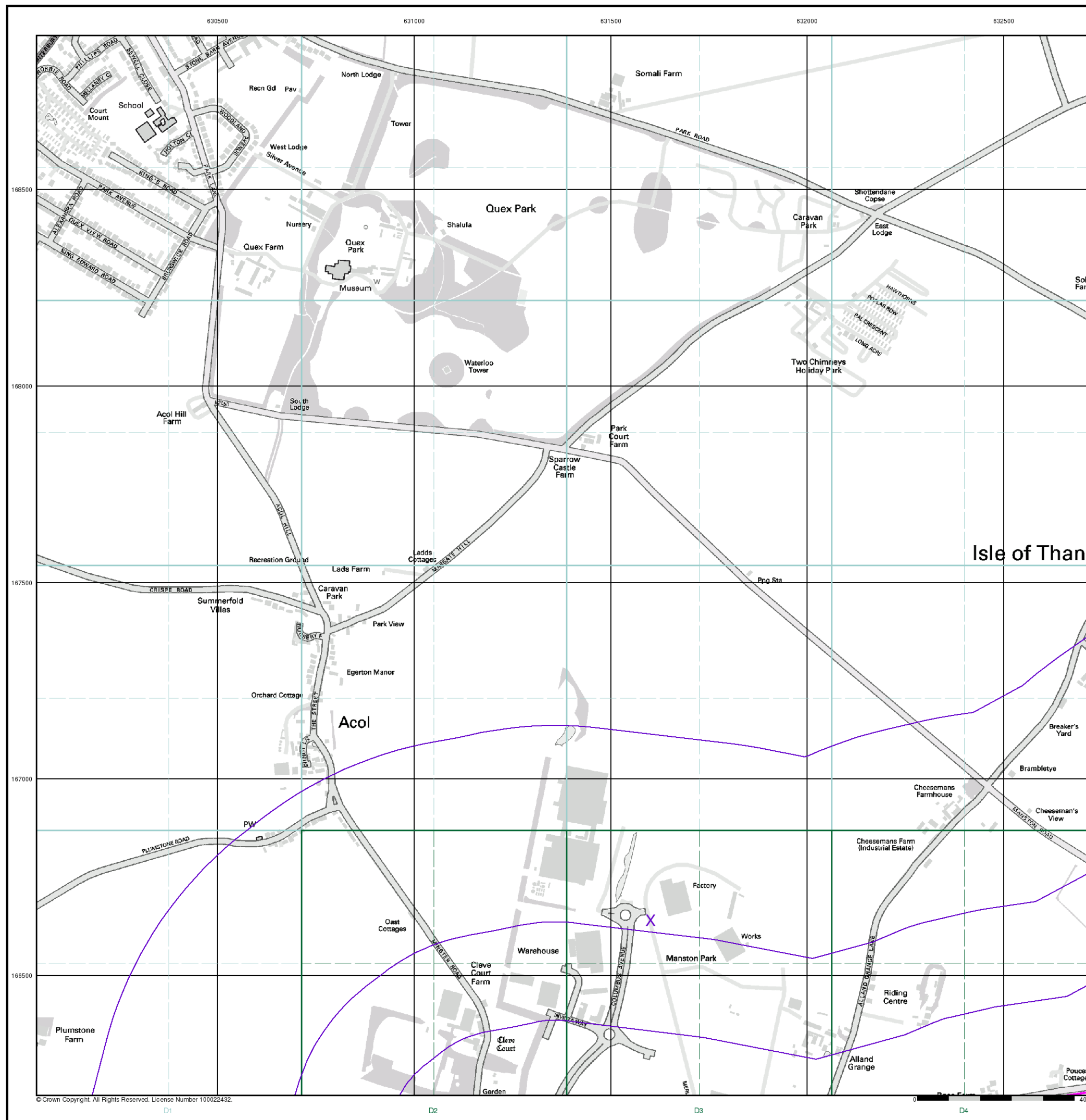


Order Details

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 Slice: D
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

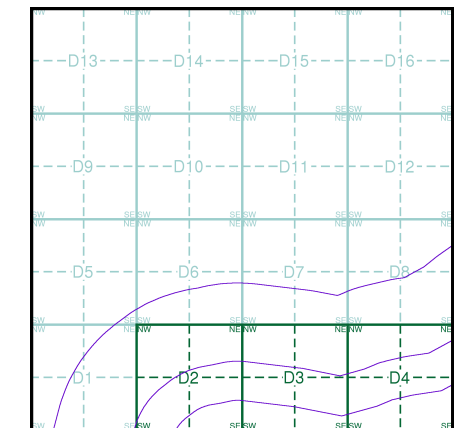
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice D

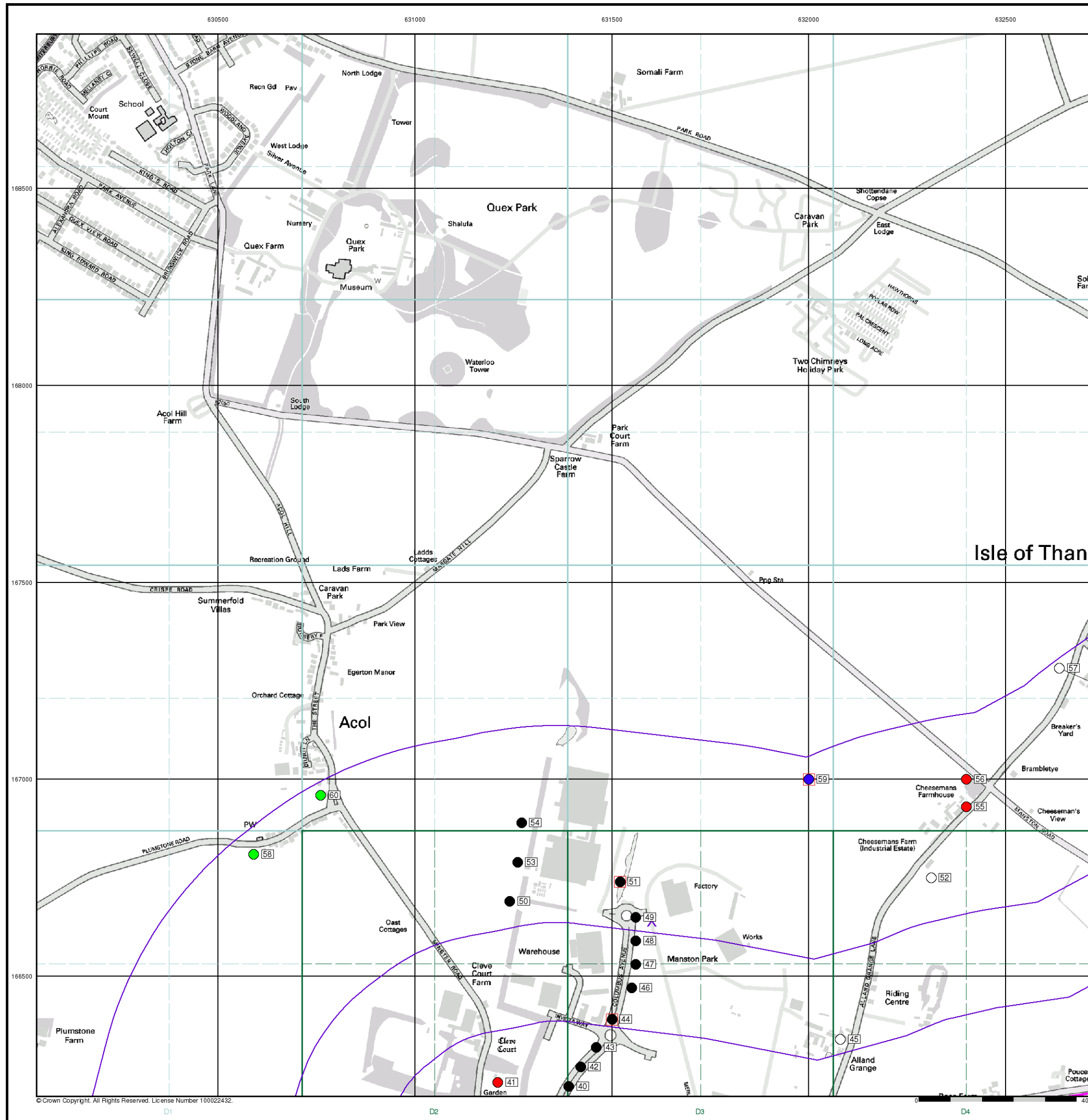


Order Details

Order Number: 82787389_1_1
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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

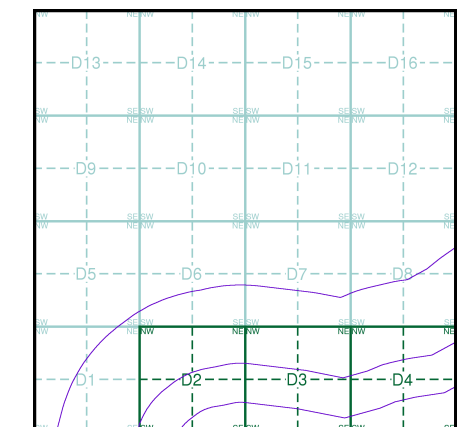
Detailed River Network Data

- | | |
|--------------------------|-------------------------------------|
| Primary River | Extended Culvert (greater than 50m) |
| Secondary River | Underground River (inferred) |
| Tertiary River | Underground River (local knowledge) |
| Canal | Downstream of High Water Mark |
| Canal Tunnel | Downstream of Seaward Extension |
| Undefined River | Not assigned River feature |
| Lake/Reservoir | |
| Offline Drainage Feature | |

Contours (height in metres)

- Standard Contour 105
- Master Contour 100
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

E/ANRW Detailed River Network Map - Slice D

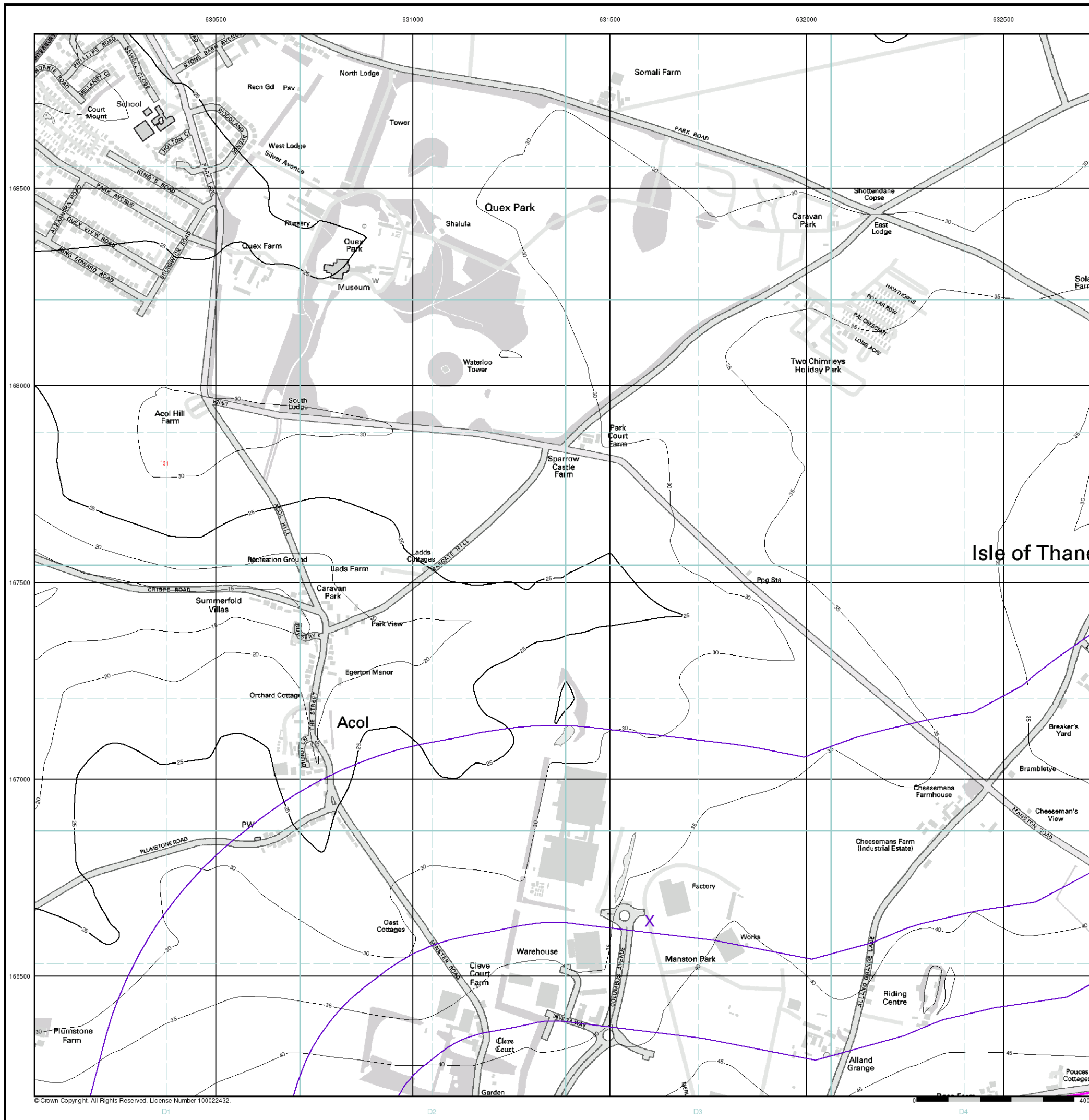


Order Details

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General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Risk of Flooding from Surface Water

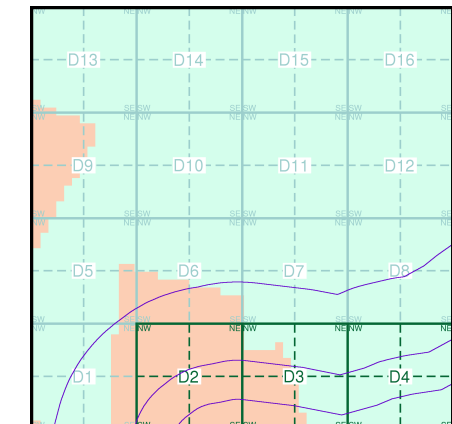
-  High - 30 Year Return
-  Medium - 100 Year Return
-  Low - 1000 Year Return

Suitability

See the suitability map below

-  National to county
-  County to town
-  Town to street
-  Street to parcels of land
-  Property

EANRW Suitability Map - Slice D

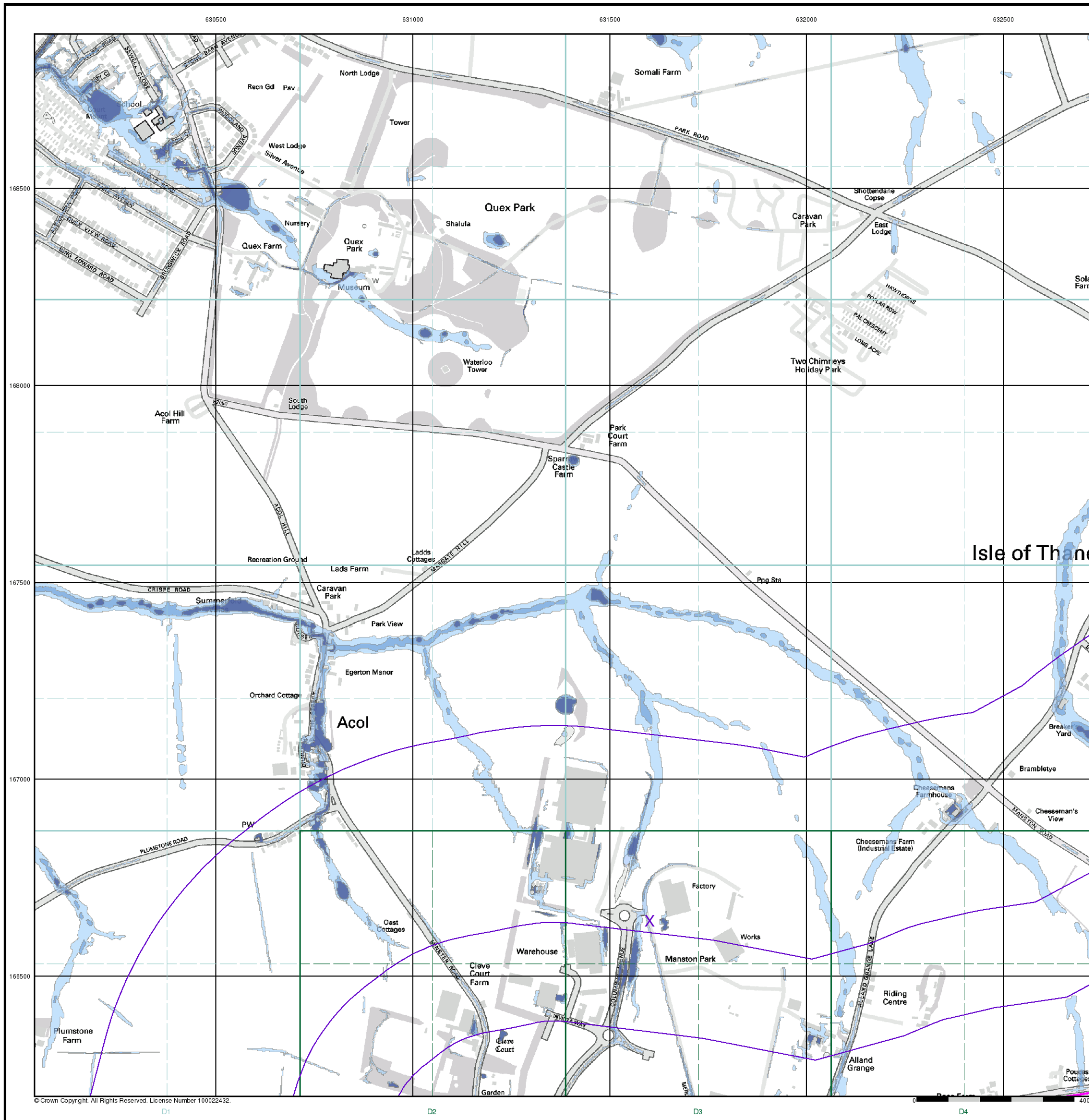


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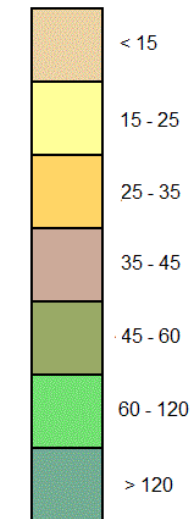
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General

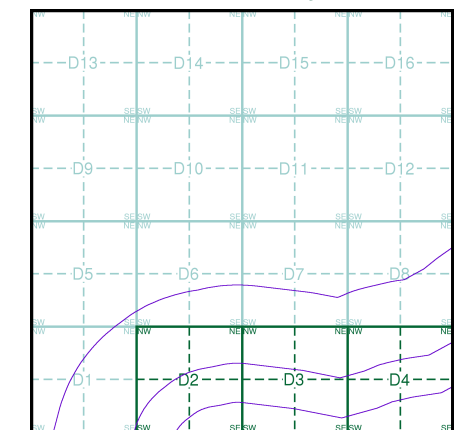
○ Specified Site
 ○ Specified Buffer(s)
 X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice D



Order Details

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Site Details

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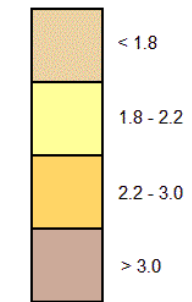


General

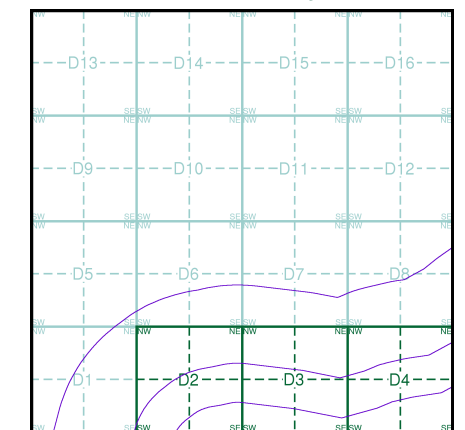
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice D



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Site Details

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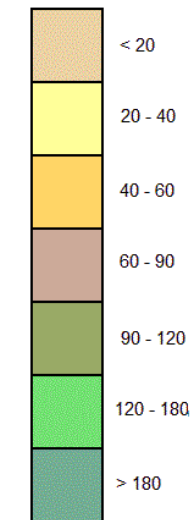
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General

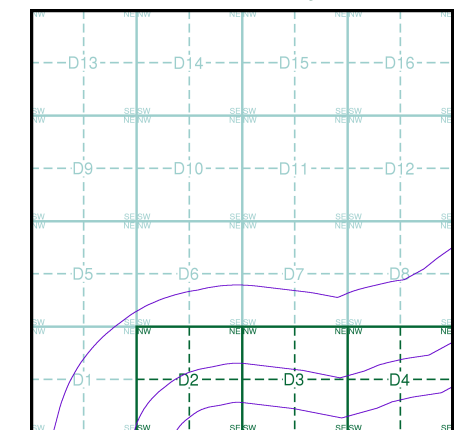
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice D



Order Details

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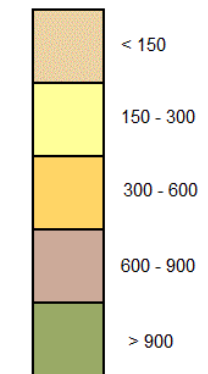
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General

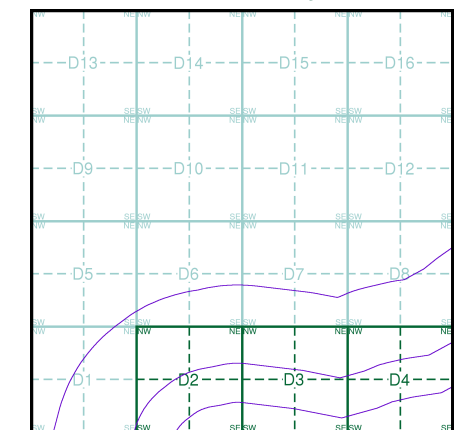
-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice D



Order Details

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 Search Buffer (m): 1000

Site Details

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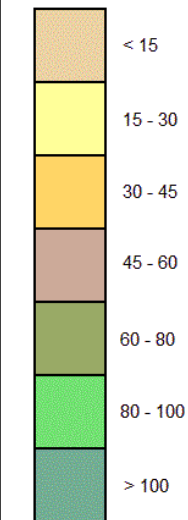
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General

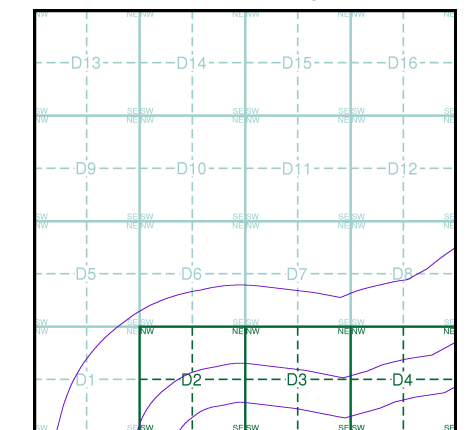
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice D

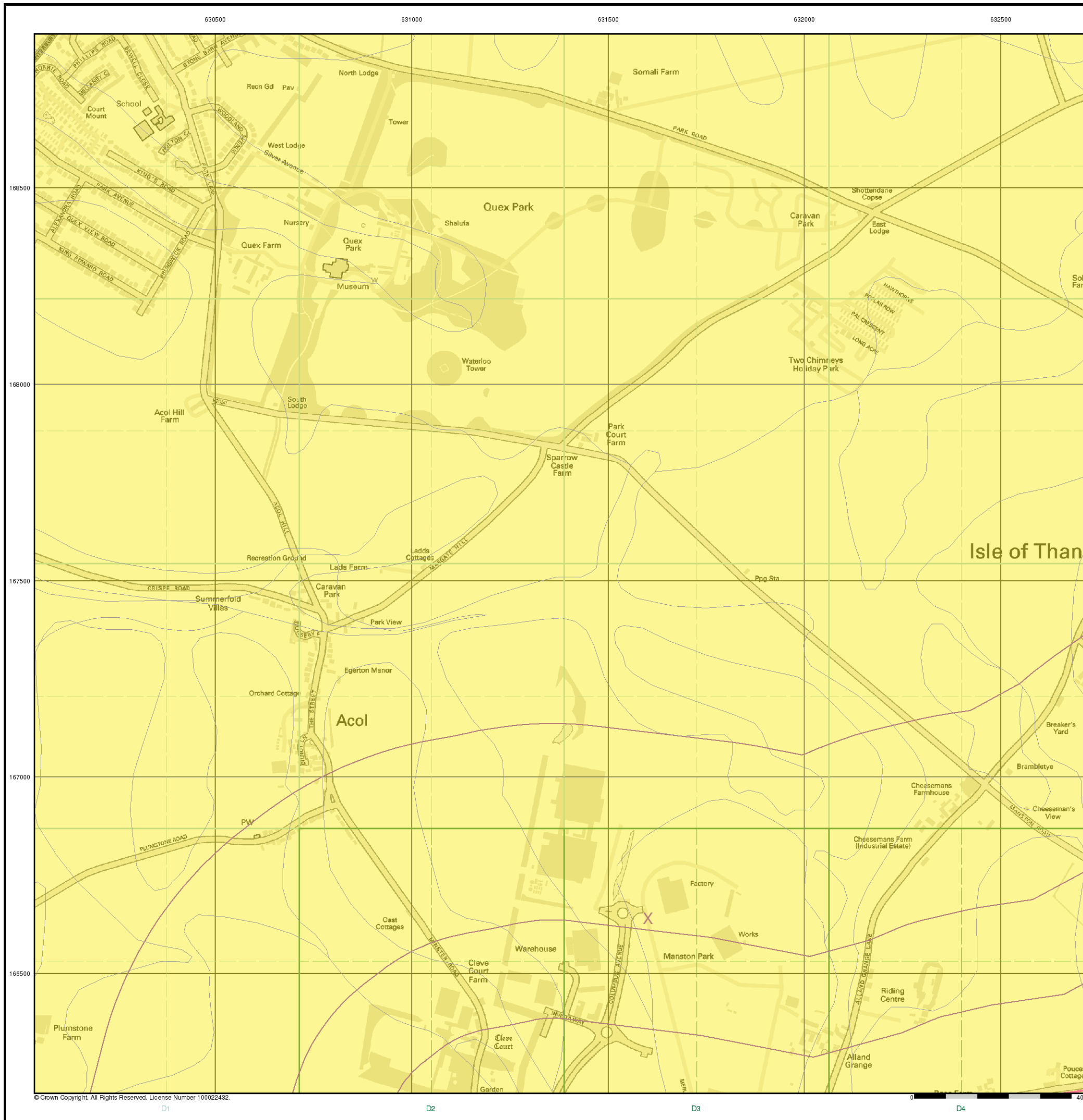


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Site Details

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Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
County Burgh Boundary (Scotland)
Co. Boro. Bdy.
Co. Burgh Bdy.
BP BS Boundary Post or Stone **P.C.B** Police Call Box
B.R. Bridle Road **P** Pump
E.P Electricity Pylon **S.P** Signal Post
F.B. Foot Bridge **SL** Sluice
F.P. Foot Path **Sp.** Spring
G.P Guide Post or Board **T.C.B** Telephone Call Box
M.S Mile Stone **Tr.** Trough
M.P M.R Mooring Post or Ring **W** Well

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH Beer House **P** Pillar, Pole or Post
BP, BS Boundary Post or Stone **PO** Post Office
Cn, C Capstan, Crane **PC** Public Convenience
Chy Chimney **PH** Public House
D Fn Drinking Fountain **Pp** Pump
EI P Electricity Pillar or Post **SB, S Br** Signal Box or Bridge
FAP Fire Alarm Pillar **SP, SL** Signal Post or Light
FB Foot Bridge **Spr** Spring
GP Guide Post **Tk** Tank or Track
H Hydrant or Hydraulic **TCB** Telephone Call Box
LC Level Crossing **TCP** Telephone Call Post
MH Manhole **Tr** Trough
MP Mile Post or Mooring Post **Wr Pt, Wr T** Water Point, Water Tap
MS Mile Stone **W** Well
NTL Normal Tidal Limit **Wd Pp** Wind Pump

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

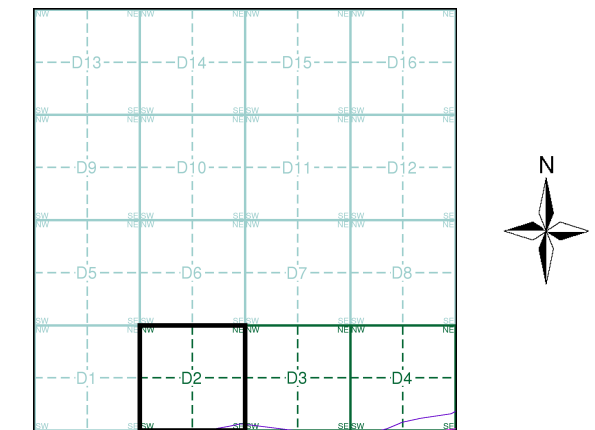
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
Bench Mark **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks Barracks **P** Pillar, Pole or Post
Bty Battery **PO** Post Office
Cemy Cemetery **PC** Public Convenience
Chy Chimney **Pp** Pump
Cis Cistern **Ppg Sta** Pumping Station
Dismtd Rly Dismantled Railway **PW** Place of Worship
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta** Sewage Pumping Station
EI P Electricity Pole, Pillar **SB, S Br** Signal Box or Bridge
EI Sub Sta Electricity Sub Station **SP, SL** Signal Post or Light
FB Filter Bed **Spr** Spring
Fn / D Fn Fountain / Drinking Ftn. **Tk** Tank or Track
Gas Gov Gas Valve Compound **Tr** Trough
GVC Gas Governor **Wd Pp** Wind Pump
GP Guide Post **Wr Pt, Wr T** Water Point, Water Tap
MH Manhole **Wks** Works (building or area)
MP, MS Mile Post or Mile Stone **W** Well



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1873	2
Kent	1:2,500	1896	3
Kent	1:2,500	1907	4
Kent	1:2,500	1939	5
Ordnance Survey Plan	1:2,500	1964	6
Additional SIMs	1:2,500	1964	7
Ordnance Survey Plan	1:2,500	1977 - 1984	8
Ordnance Survey Plan	1:2,500	1984	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1996	11

Historical Map - Segment D2



Order Details

Order Number: 82787389_1_1
Customer Ref: 38199-15
National Grid Reference: 631600, 166640
Slice: D
Site Area (Ha): 306.39
Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



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

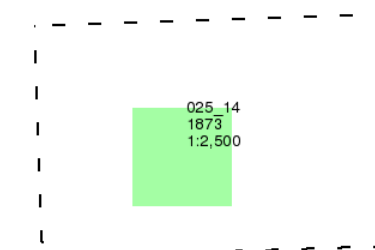
Kent

Published 1873

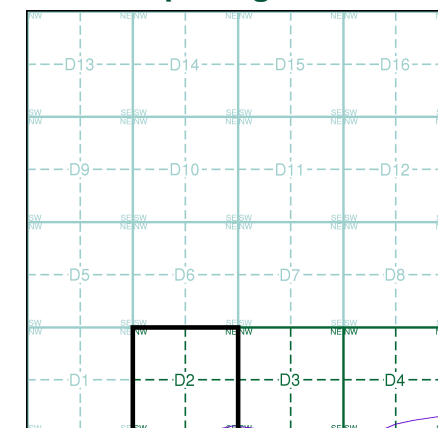
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D2

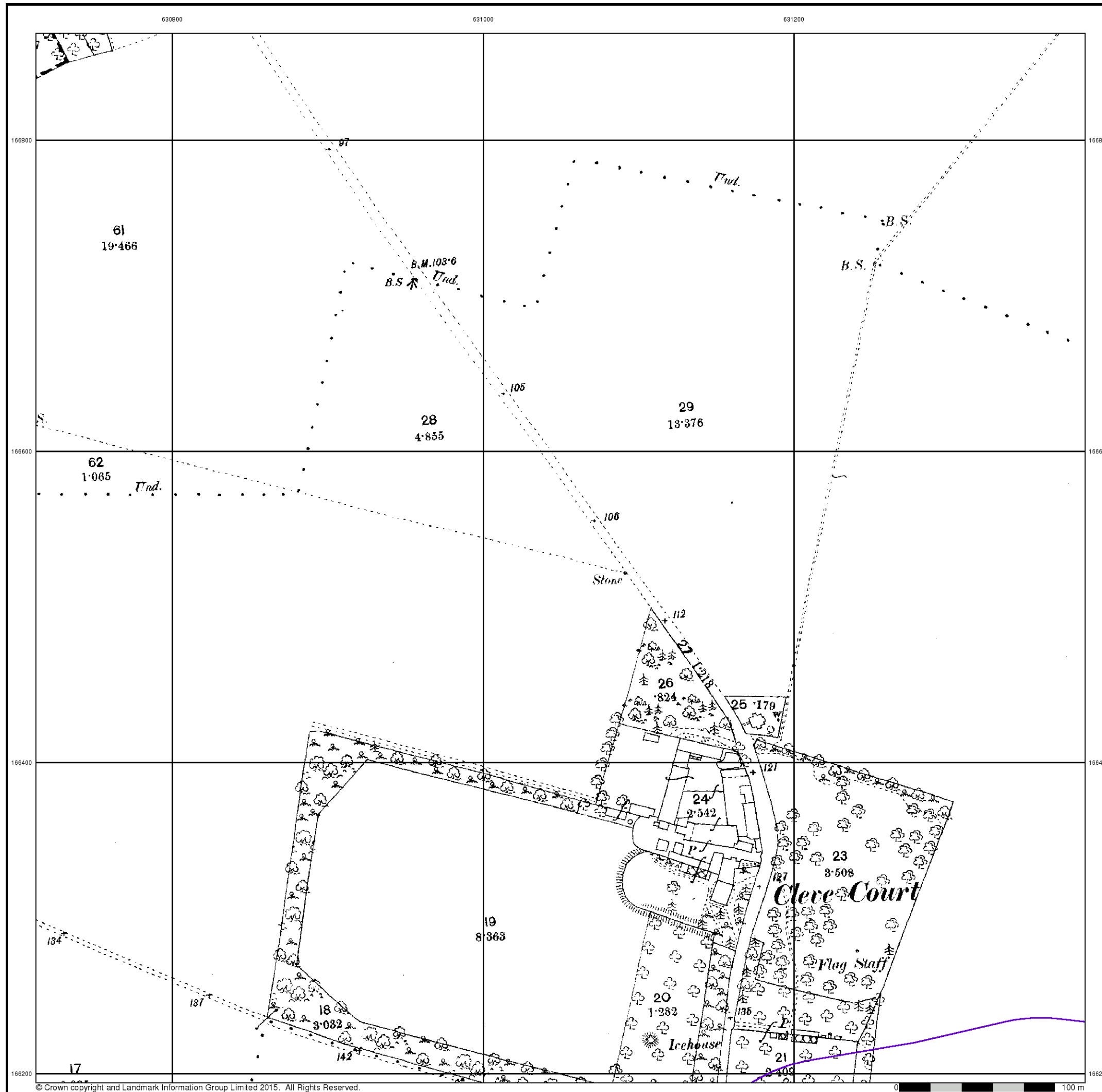


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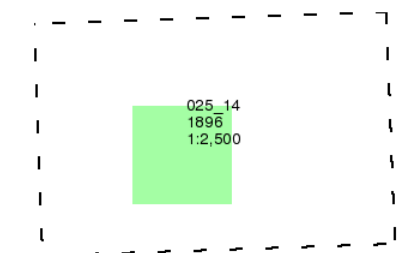
Kent

Published 1896

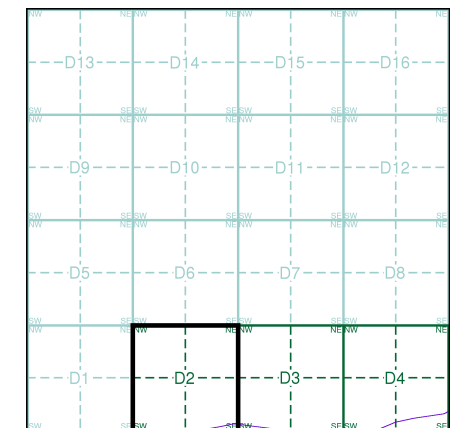
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D2

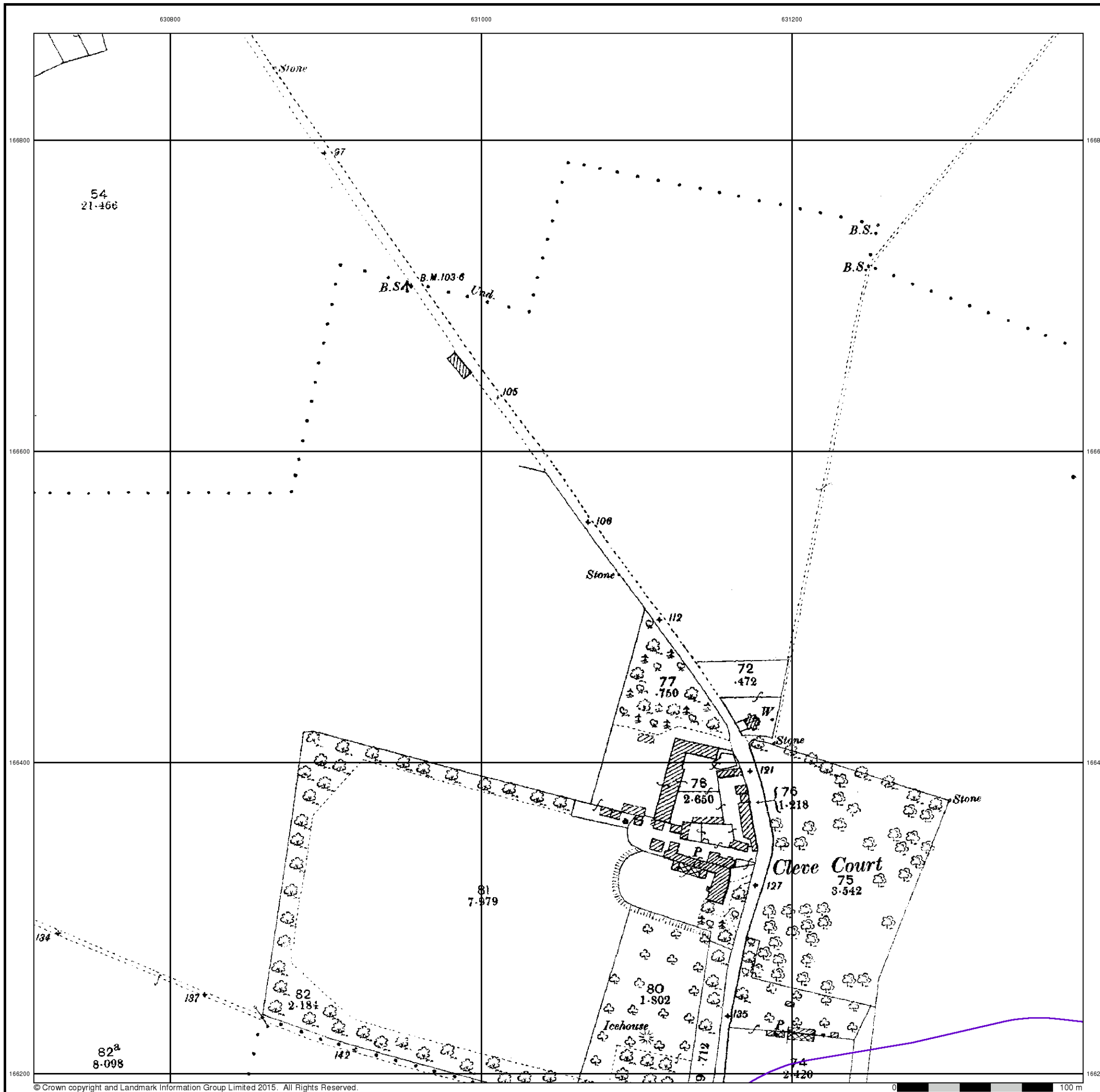


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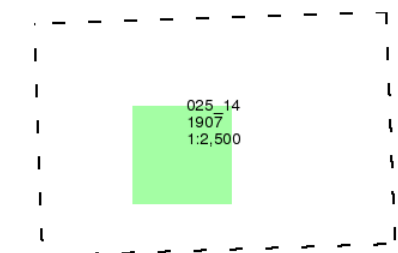
Kent

Published 1907

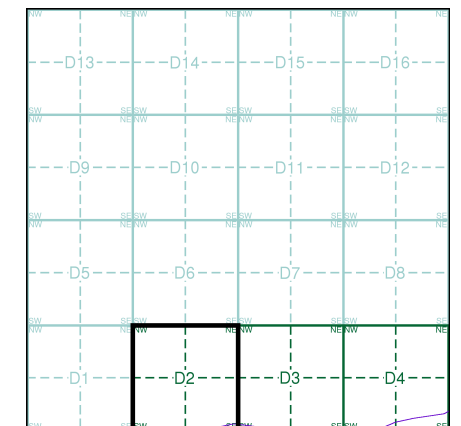
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D2

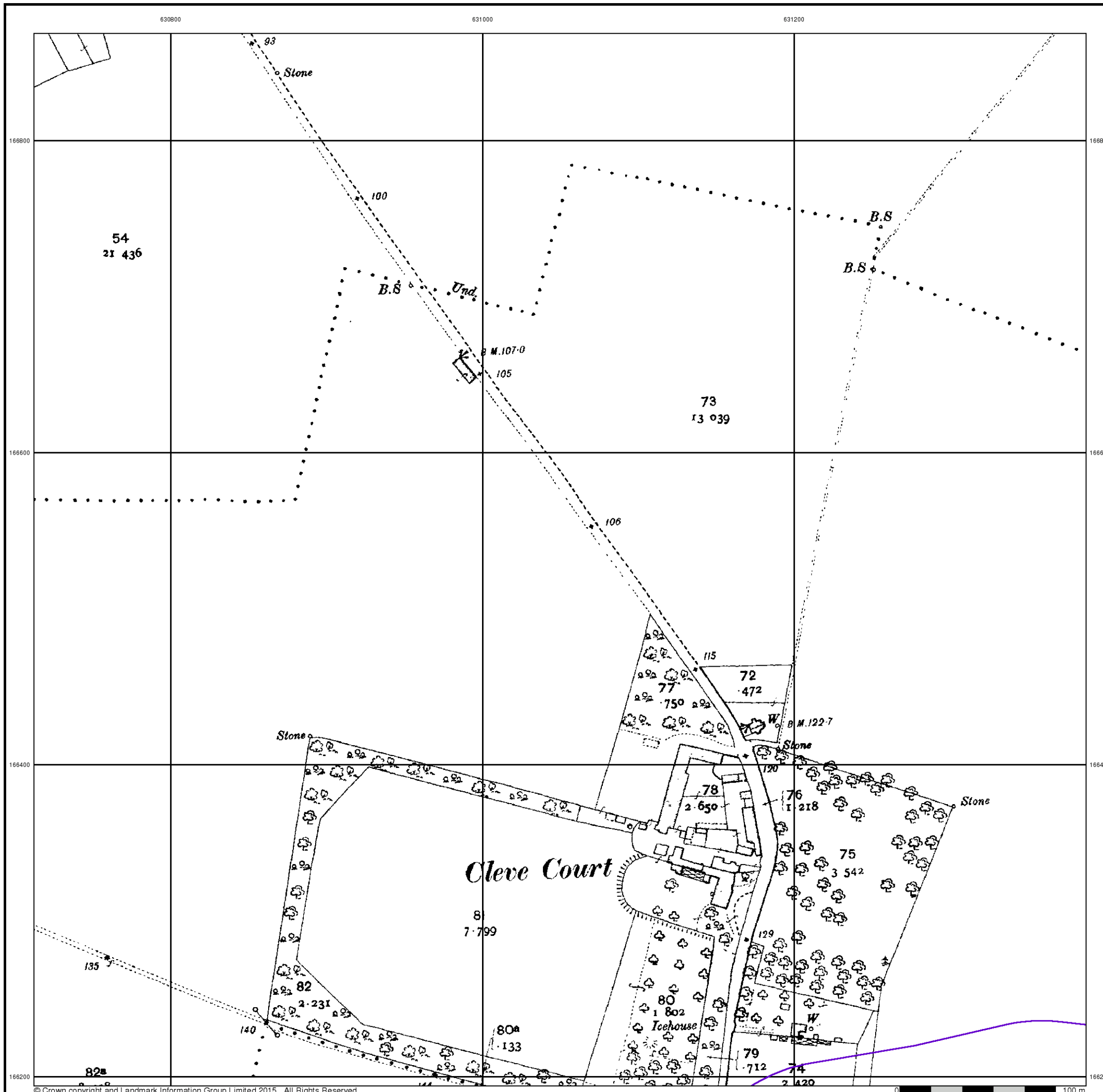


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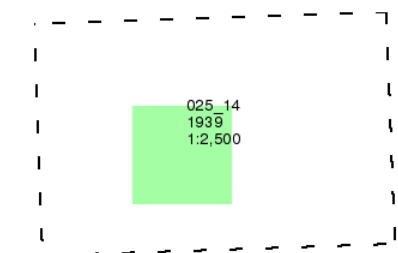
Kent

Published 1939

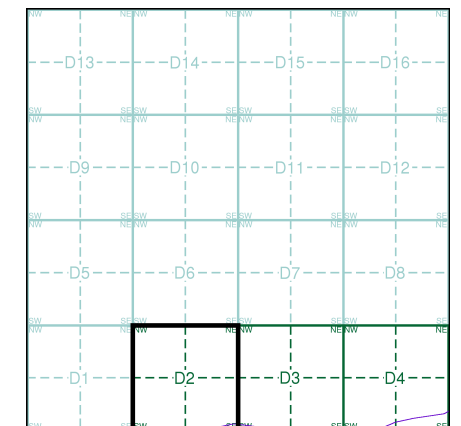
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D2

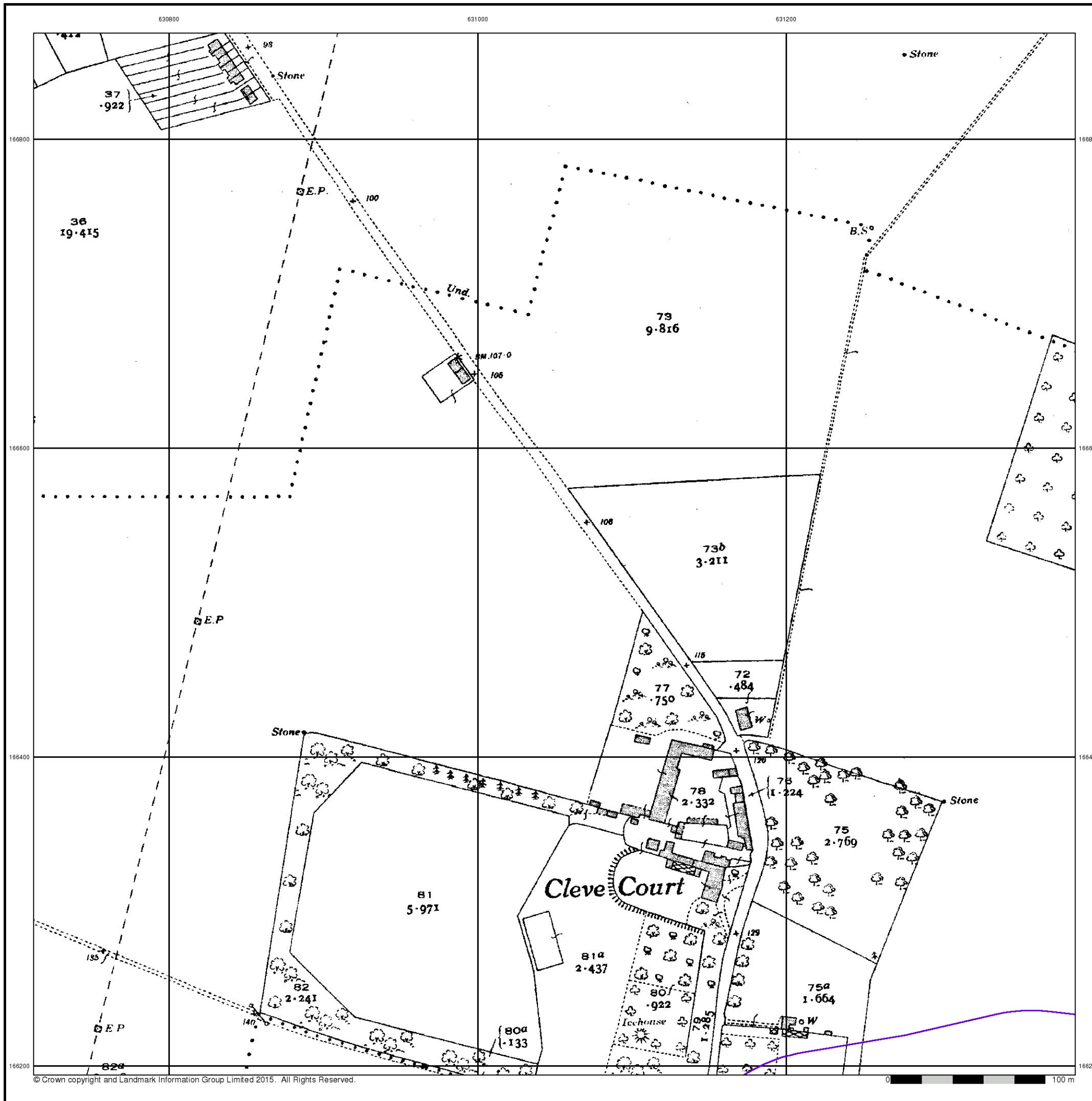


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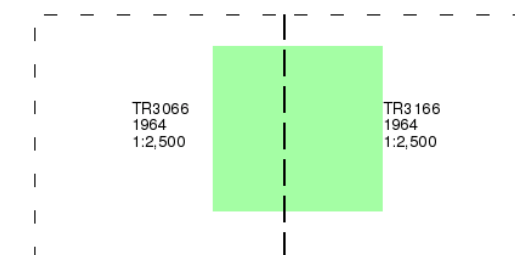
Ordnance Survey Plan

Published 1964

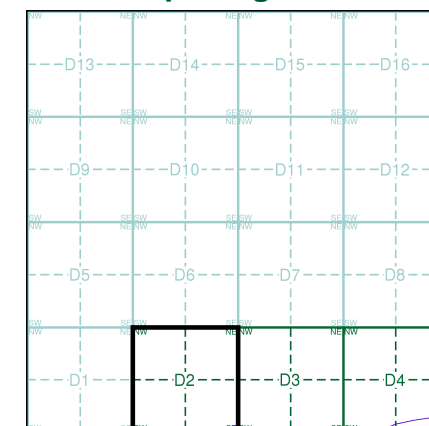
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D2

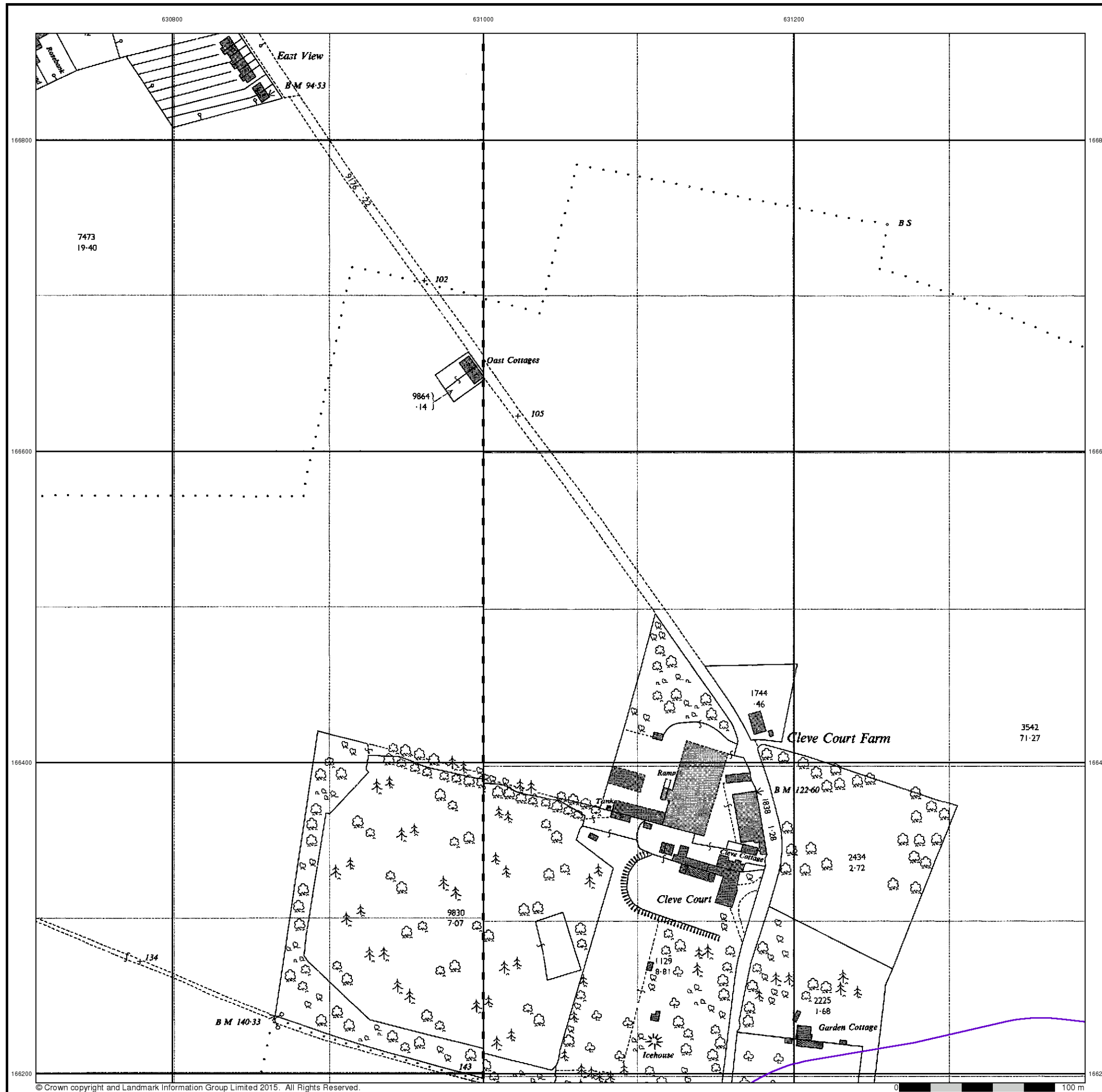


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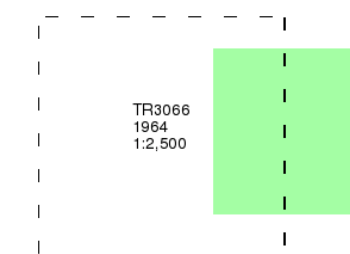
Additional SIMs

Published 1964

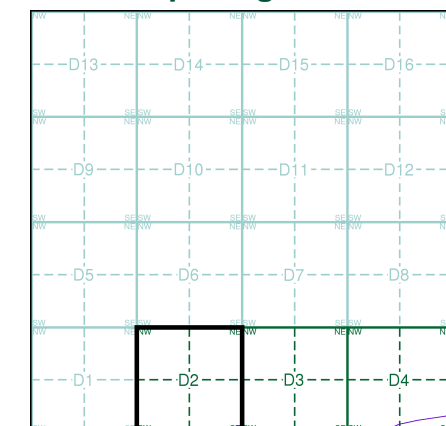
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D2

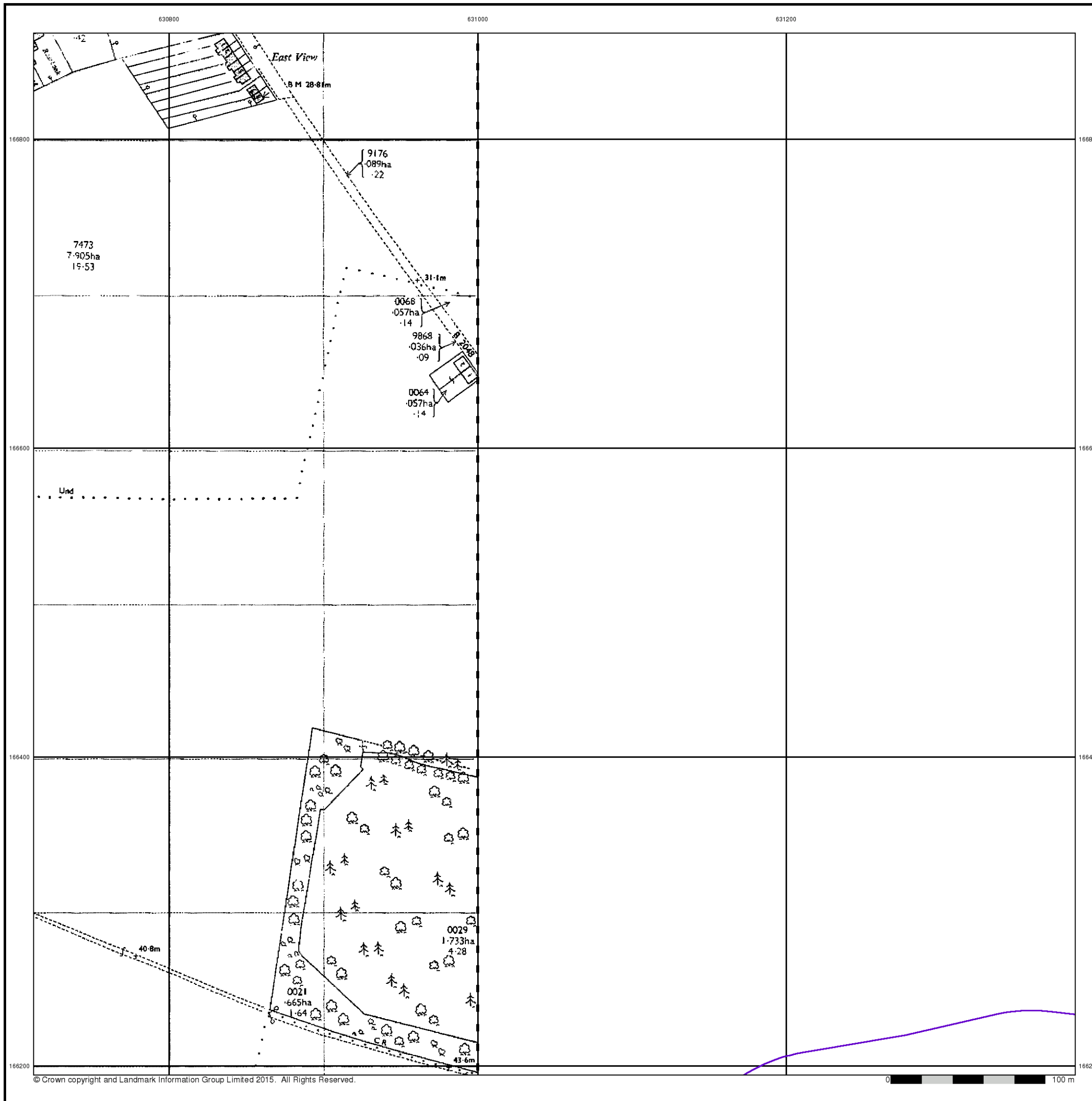


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



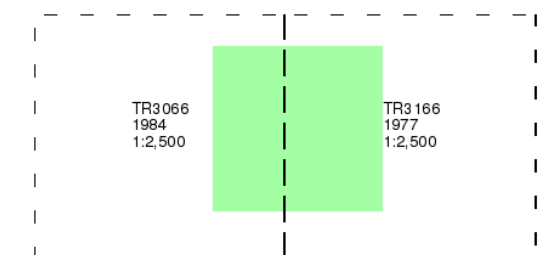
Ordnance Survey Plan

Published 1977 - 1984

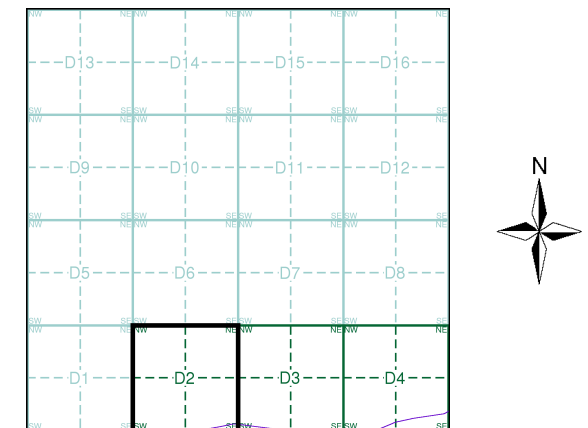
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D2

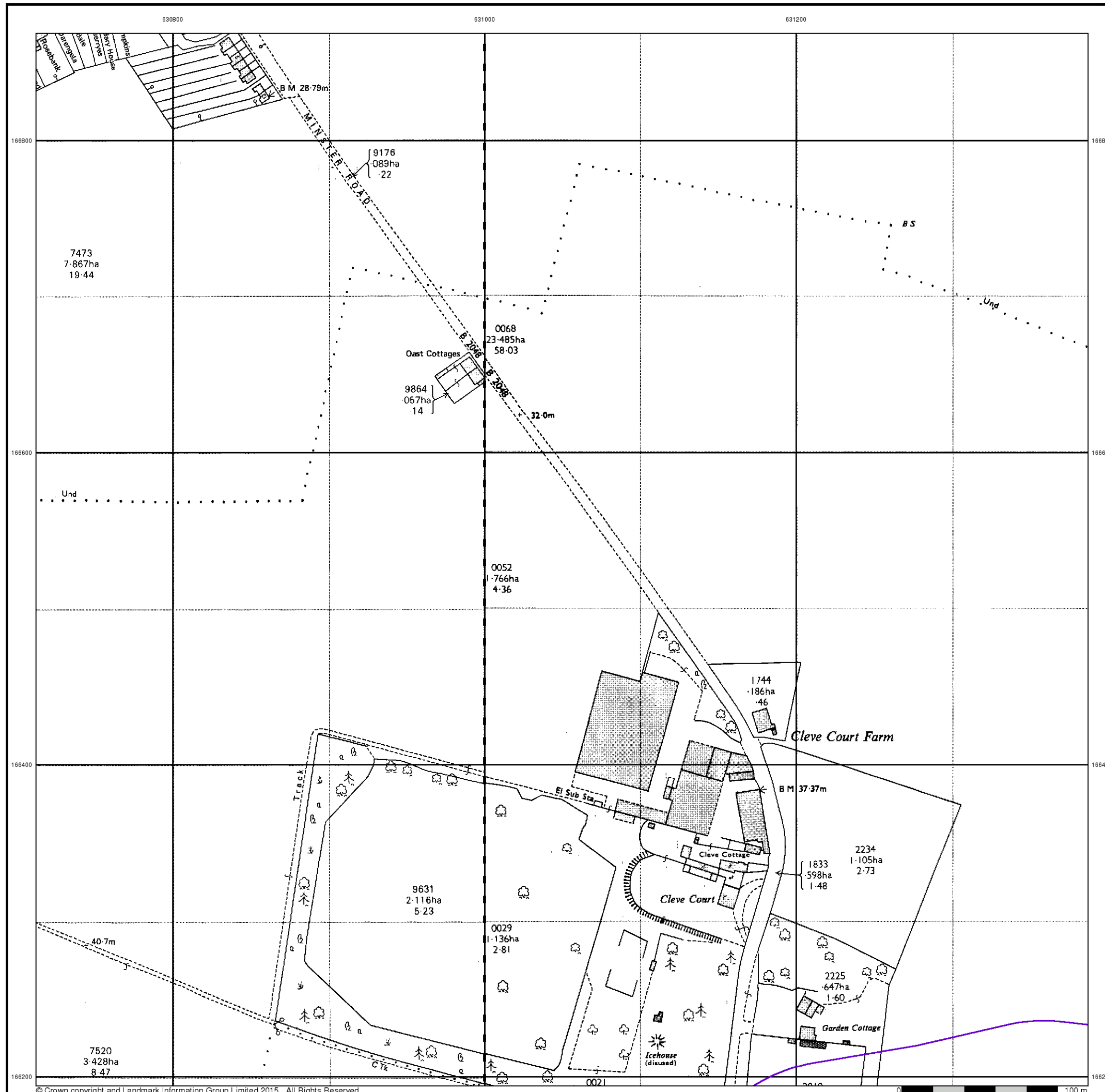


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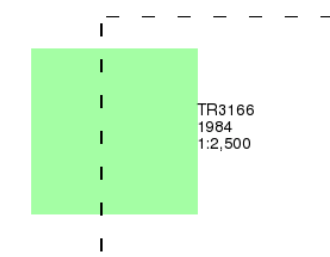
Ordnance Survey Plan

Published 1984

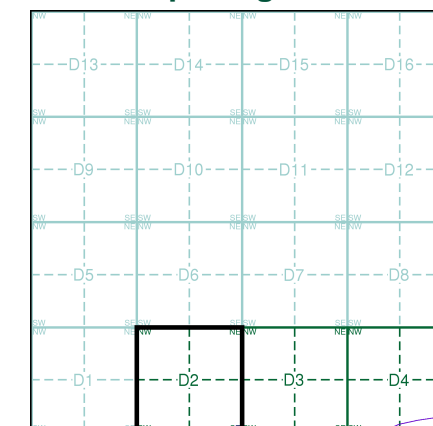
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D2

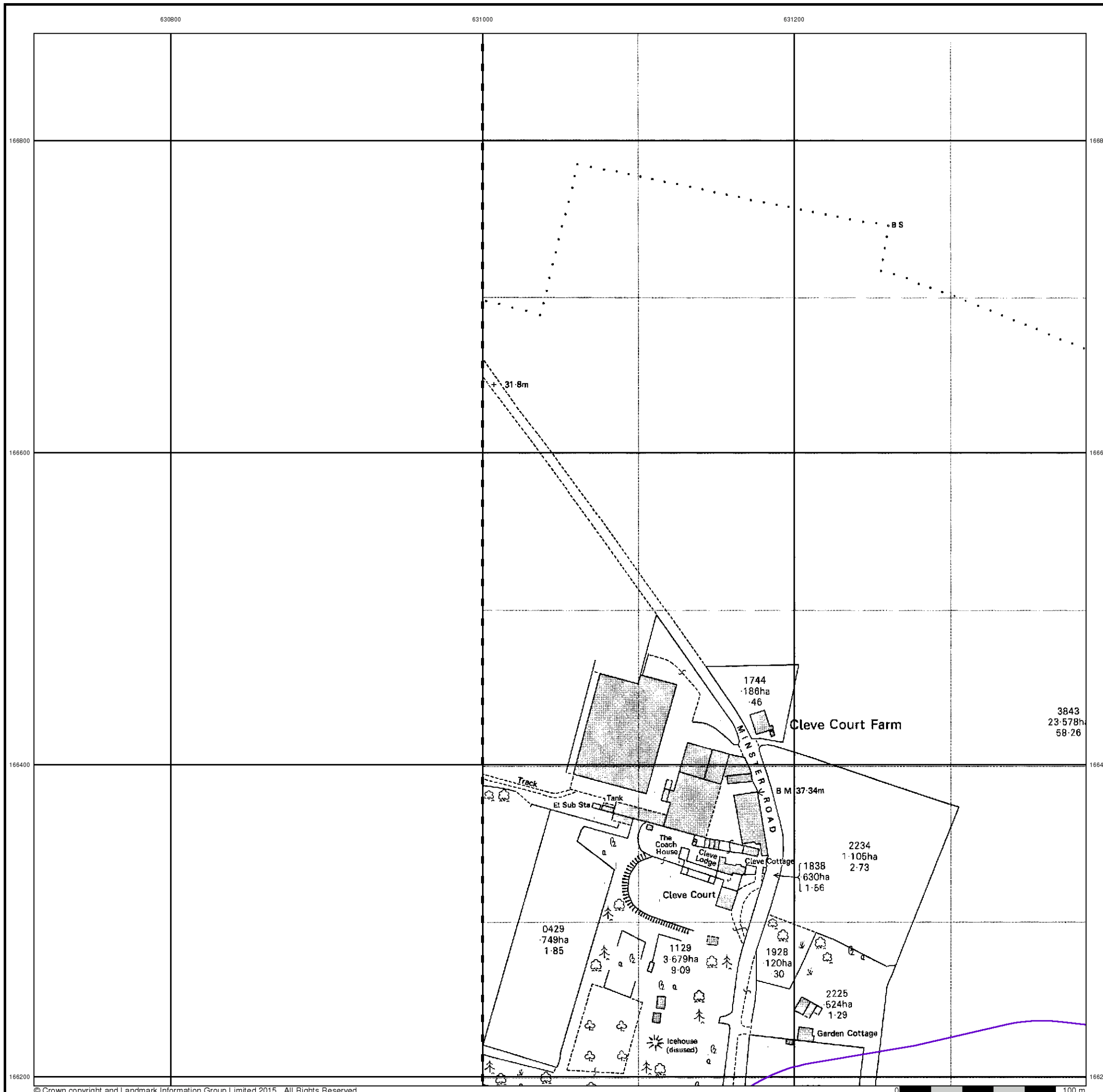


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Site Details

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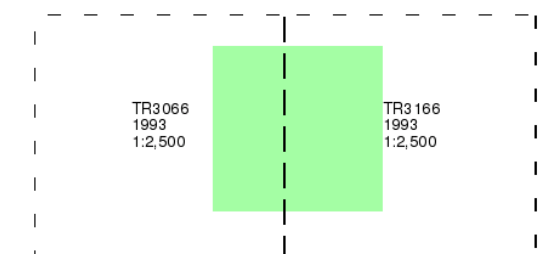
Large-Scale National Grid Data

Published 1993

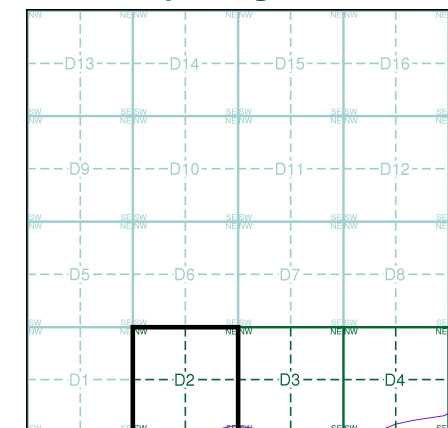
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D2

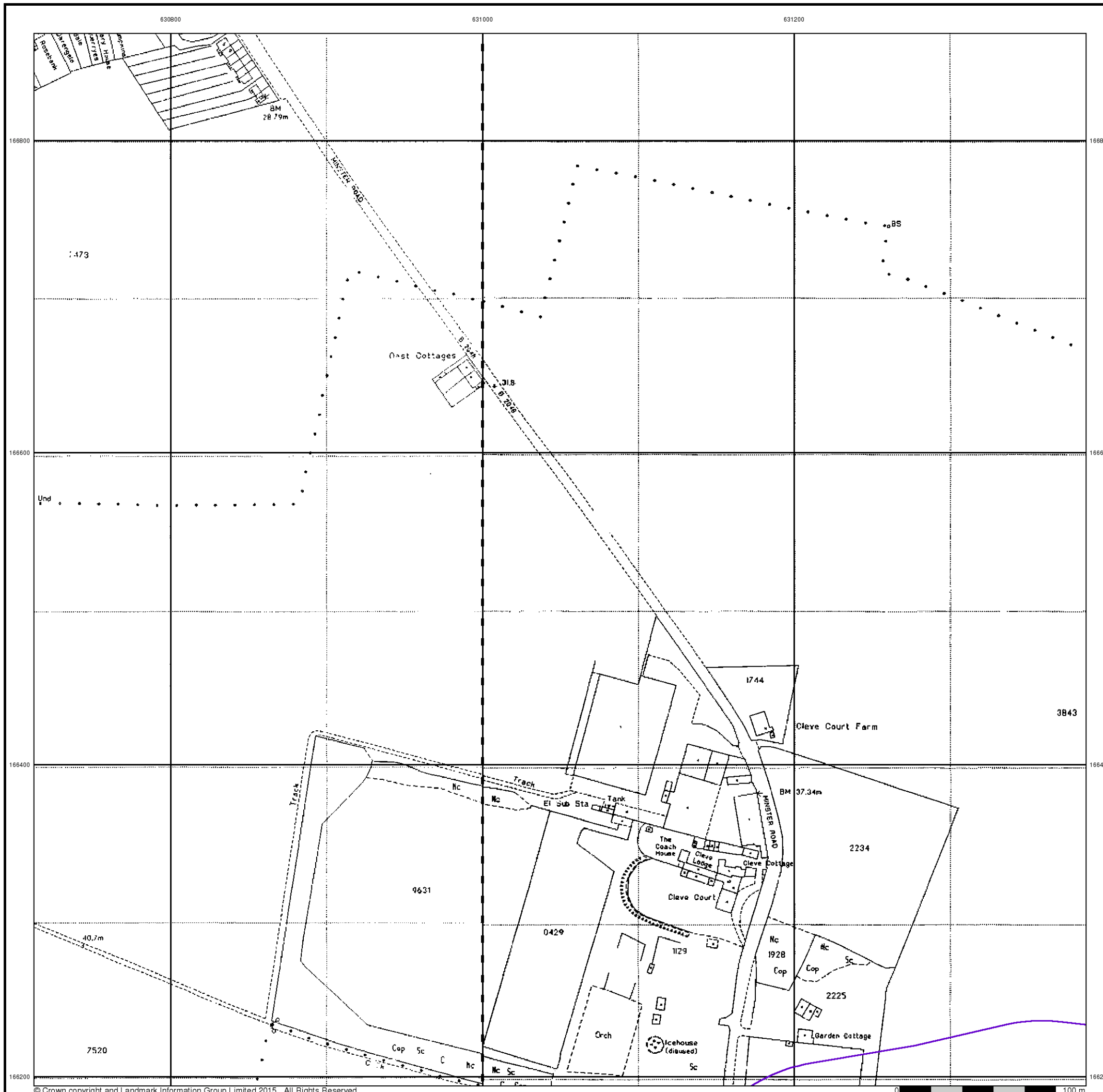


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Site Details

Kent International Airport Ltd, Kent International Airport,
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630800

631000

631200

166800

166800

166600

166600

166400

166400

166200

166200



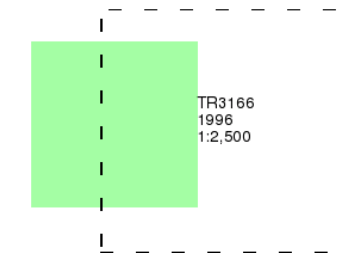
Large-Scale National Grid Data

Published 1996

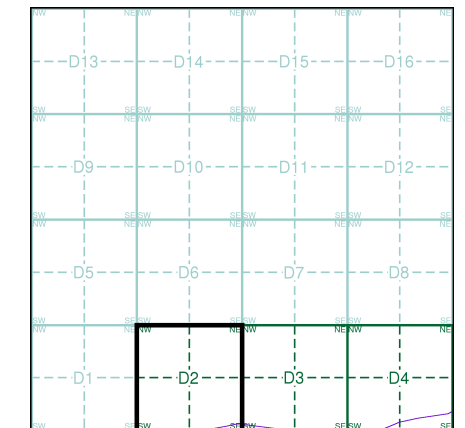
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D2



Order Details

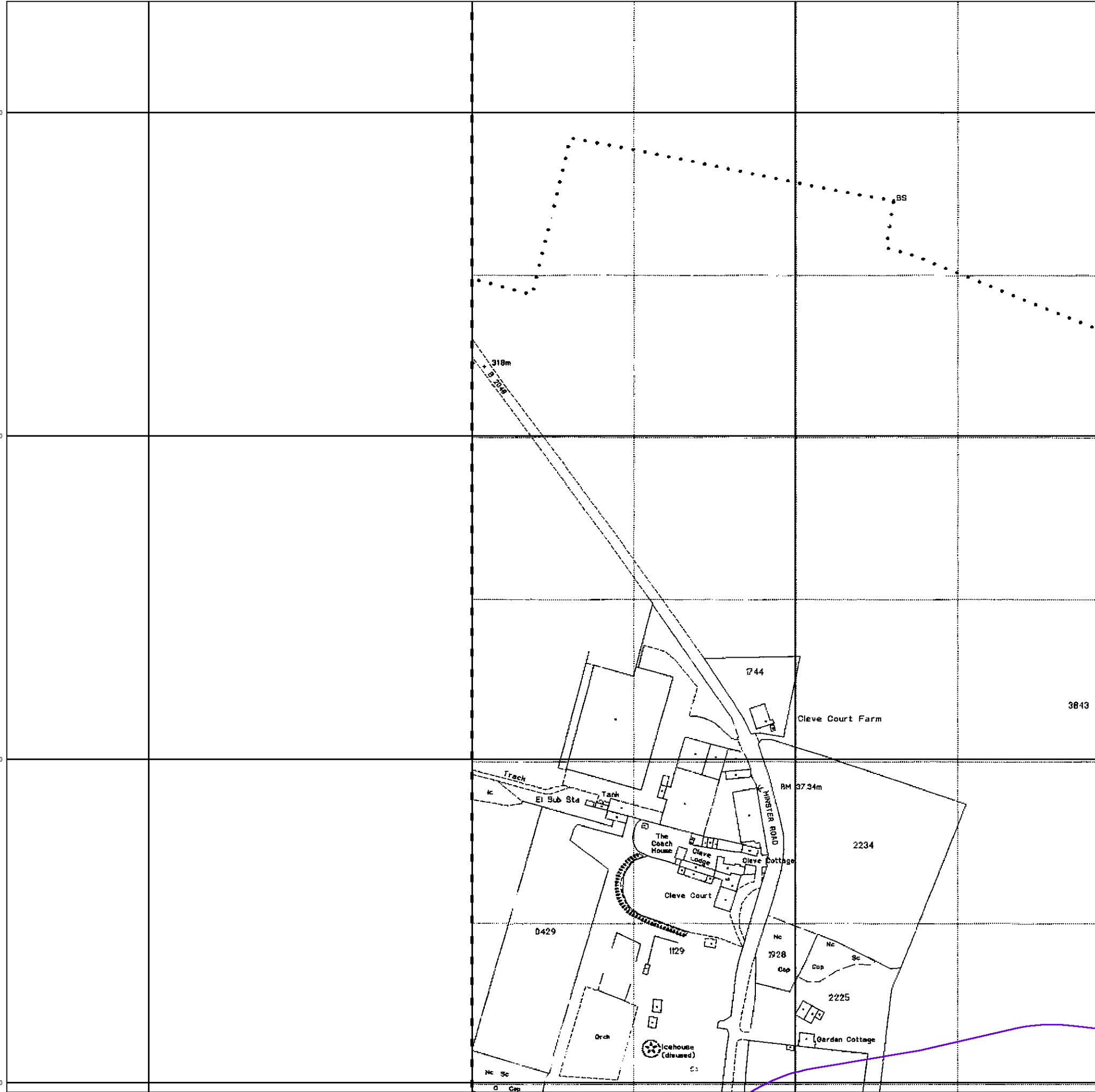
Order Number: 82787389_1_1
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Site Details

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Web: www.envirocheck.co.uk



Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
County Burgh Boundary (Scotland)
Co. Boro. Bdy.
Co. Burgh Bdy.
BP BS Boundary Post or Stone **P.C.B** Police Call Box
B.R. Bridle Road **P** Pump
E.P Electricity Pylon **S.P** Signal Post
F.B. Foot Bridge **Sl** Sluice
F.P. Foot Path **Sp.** Spring
G.P Guide Post or Board **T.C.B** Telephone Call Box
M.S Mile Stone **Tr.** Trough
M.P M.R Mooring Post or Ring **W** Well

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH Beer House **P** Pillar, Pole or Post
BP, BS Boundary Post or Stone **PO** Post Office
Cn, C Capstan, Crane **PC** Public Convenience
Chy Chimney **PH** Public House
D Fn Drinking Fountain **Pp** Pump
EI P Electricity Pillar or Post **SB, S Br** Signal Box or Bridge
FAP Fire Alarm Pillar **SP, SL** Signal Post or Light
FB Foot Bridge **Spr** Spring
GP Guide Post **Tk** Tank or Track
H Hydrant or Hydraulic **TCB** Telephone Call Box
LC Level Crossing **TCP** Telephone Call Post
MH Manhole **Tr** Trough
MP Mile Post or Mooring Post **Wr Pt, Wr T** Water Point, Water Tap
MS Mile Stone **W** Well
NTL Normal Tidal Limit **Wd Pp** Wind Pump

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

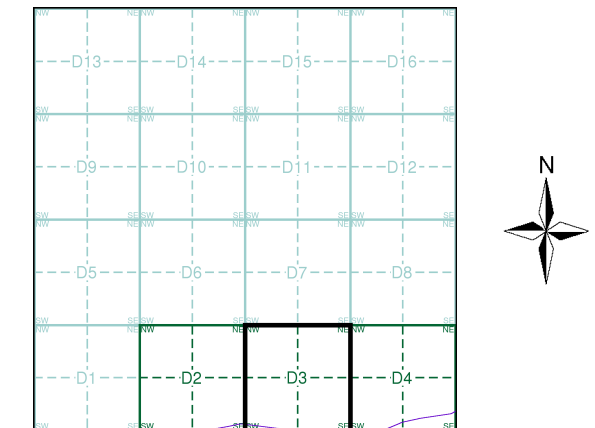
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
B.M. 231.60m Bench Mark **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks Barracks **P** Pillar, Pole or Post
Bty Battery **PO** Post Office
Cemy Cemetery **PC** Public Convenience
Chy Chimney **Pp** Pump
Cis Cistern **Ppg Sta** Pumping Station
Dismtd Rly Dismantled Railway **PW** Place of Worship
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta** Sewage Pumping Station
EI P Electricity Pole, Pillar **SB, S Br** Signal Box or Bridge
EI Sub Sta Electricity Sub Station **SP, SL** Signal Post or Light
FB Filter Bed **Spr** Spring
Fn / D Fn Fountain / Drinking Ftn. **Tk** Tank or Track
Gas Gov Gas Valve Compound **Tr** Trough
GVC Gas Governor **Wd Pp** Wind Pump
GP Guide Post **Wr Pt, Wr T** Water Point, Water Tap
MH Manhole **Wks** Works (building or area)
MP, MS Mile Post or Mile Stone **W** Well



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1873	2
Kent	1:2,500	1896	3
Kent	1:2,500	1907	4
Kent	1:2,500	1939	5
Ordnance Survey Plan	1:2,500	1964	6
Ordnance Survey Plan	1:2,500	1977	7
Ordnance Survey Plan	1:2,500	1984	8
Additional SIMs	1:2,500	1989	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1996	11

Historical Map - Segment D3



Order Details

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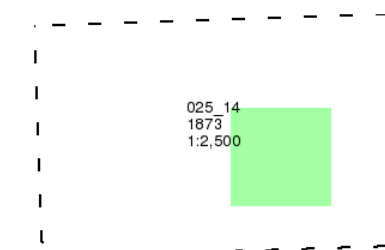
Kent

Published 1873

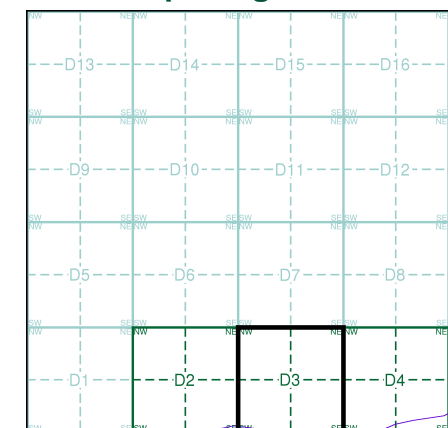
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D3

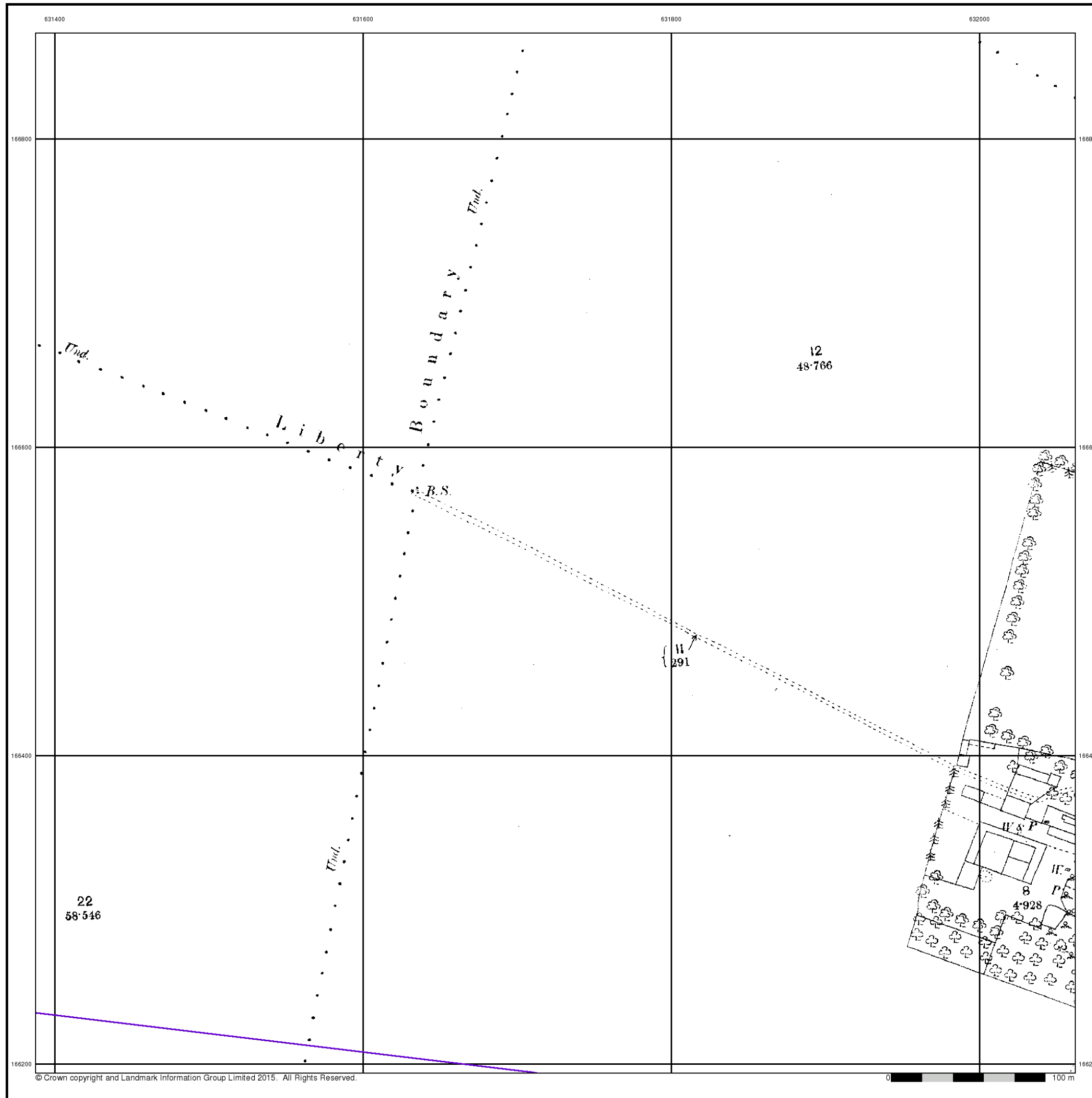


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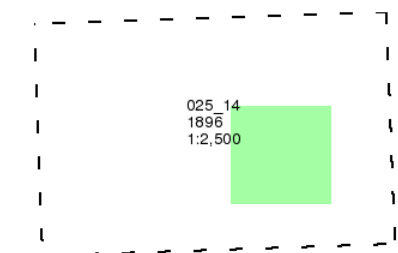
Kent

Published 1896

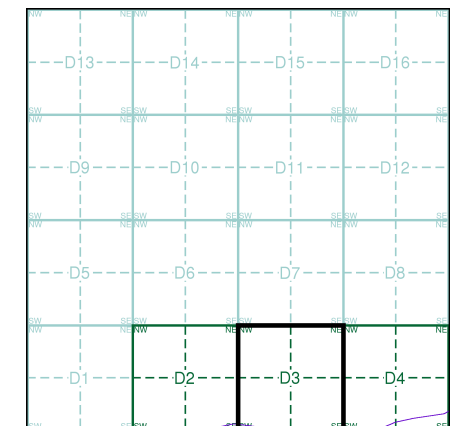
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D3

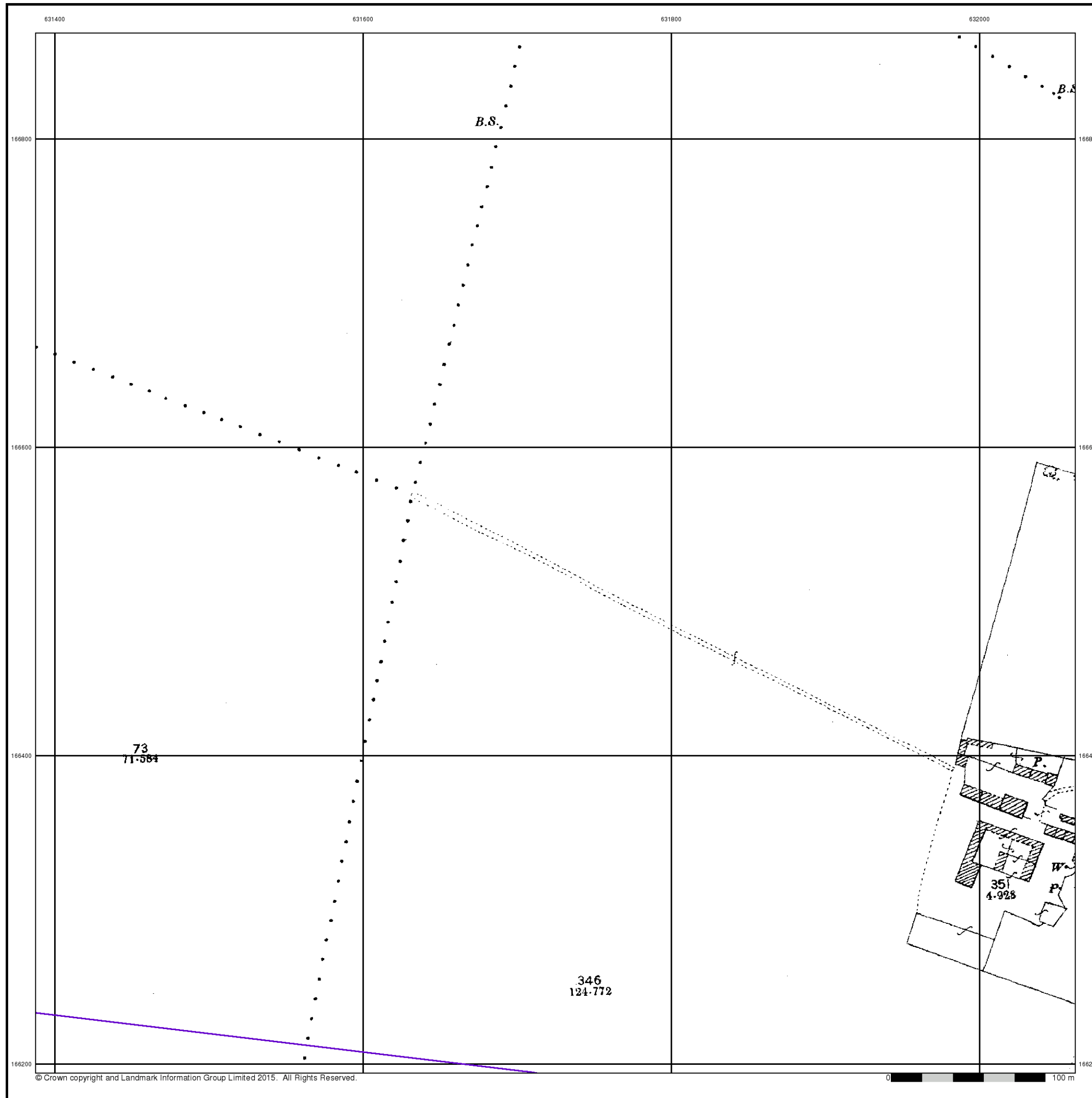


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Site Details

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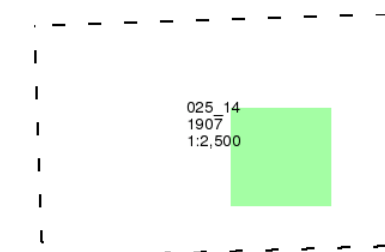
Kent

Published 1907

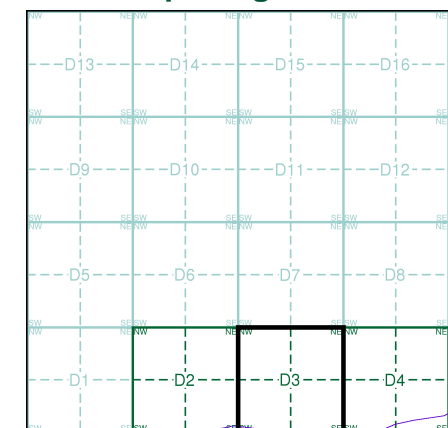
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D3

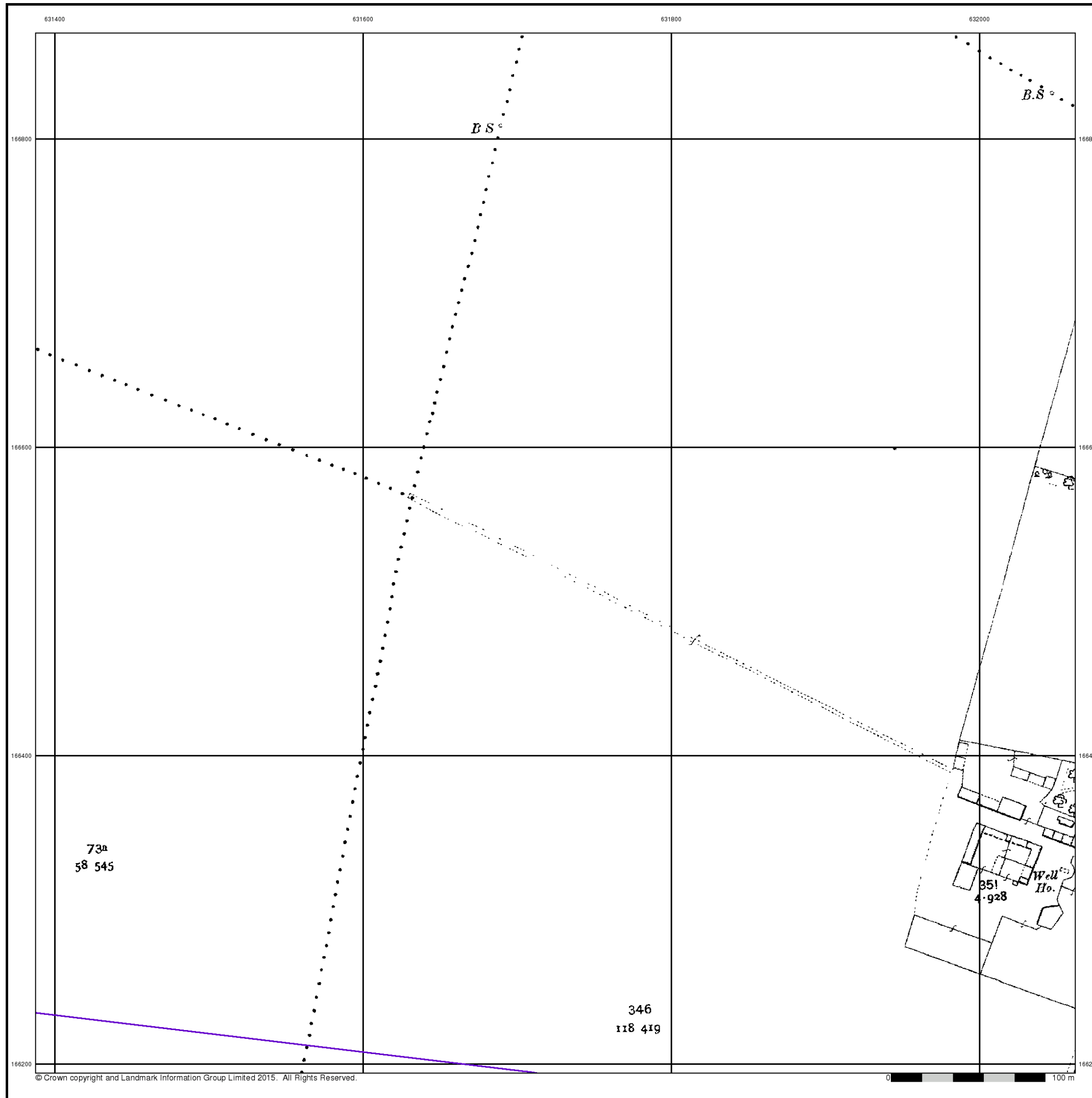


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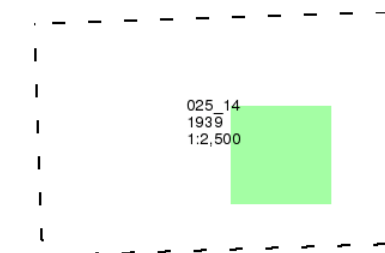
Kent

Published 1939

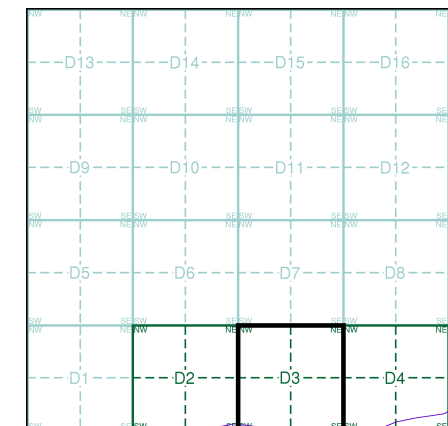
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D3

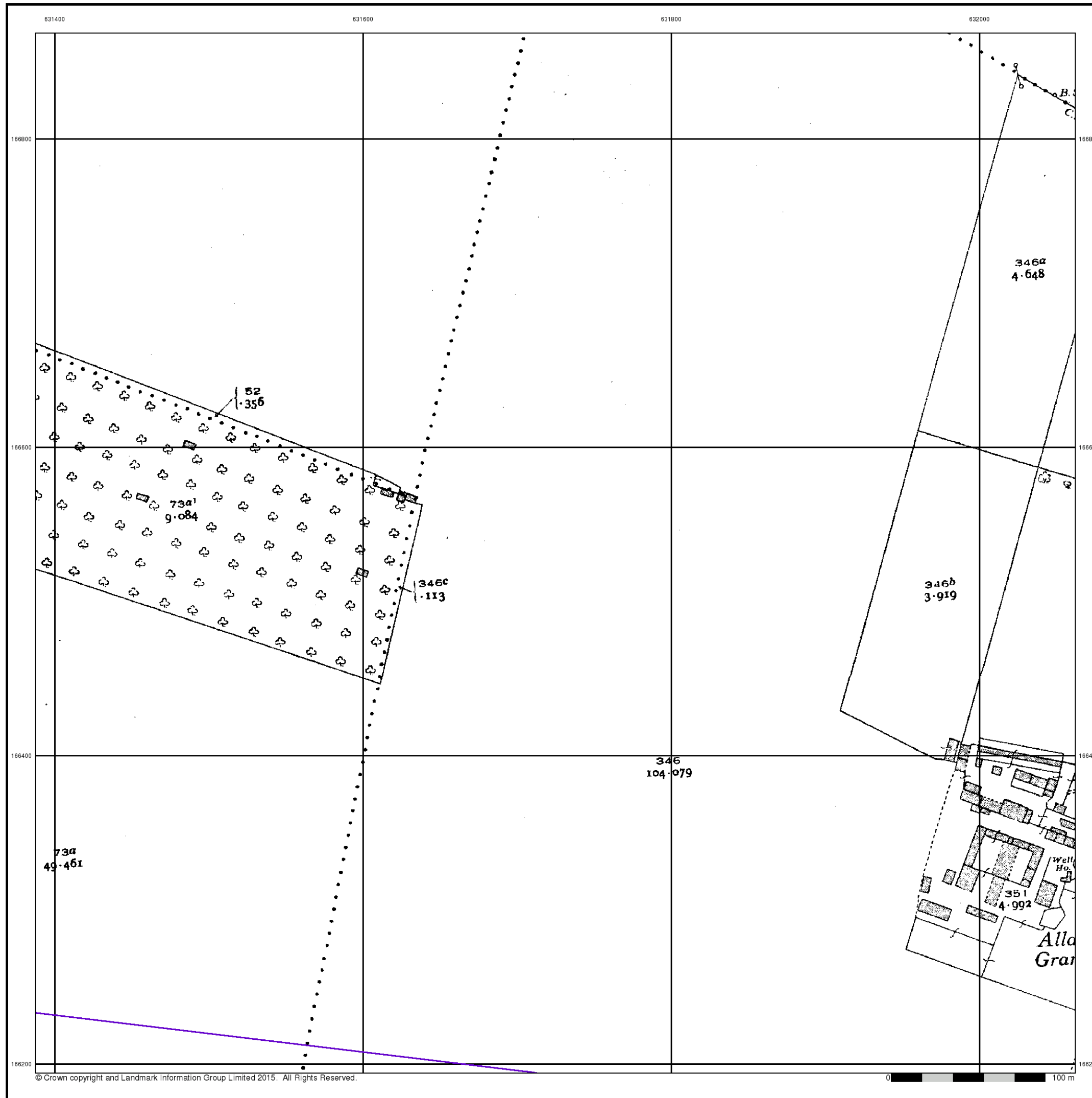


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Site Details

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 Manston, RAMSGATE, Kent, CT12 5BL



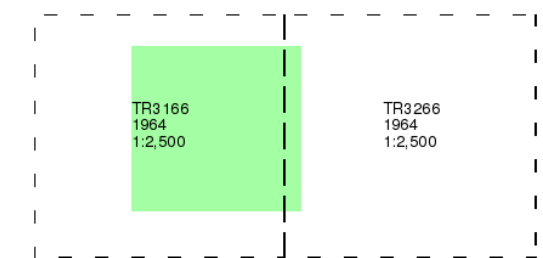
Ordnance Survey Plan

Published 1964

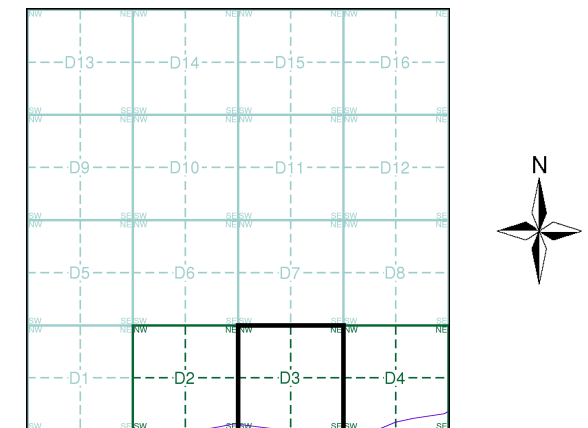
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment D3

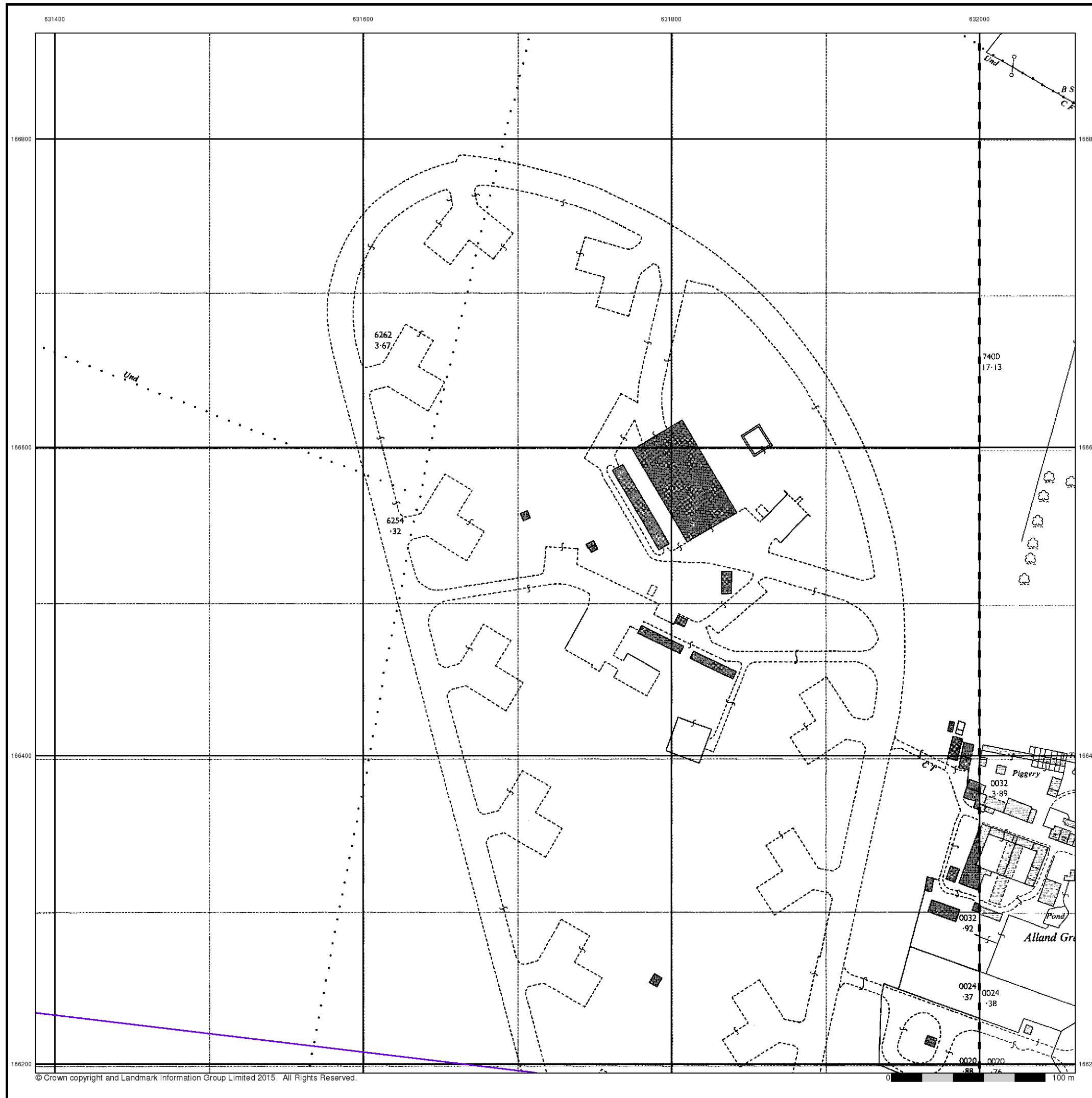


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Site Details

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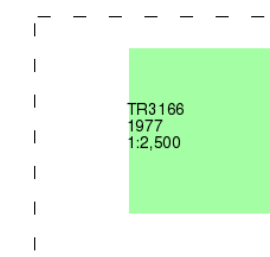
Ordnance Survey Plan

Published 1977

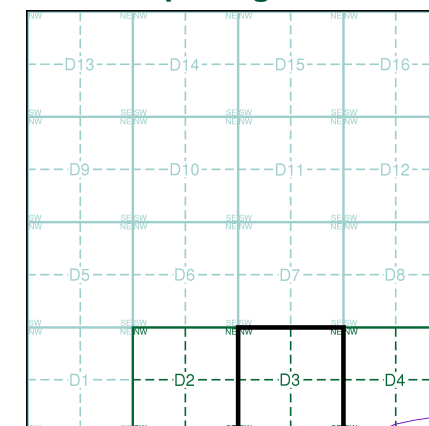
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Historical Map - Segment D3



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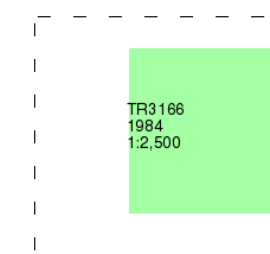
Ordnance Survey Plan

Published 1984

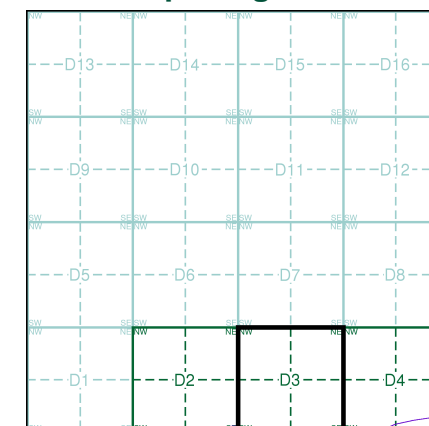
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D3



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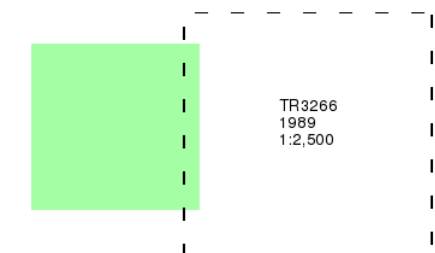
Additional SIMs

Published 1989

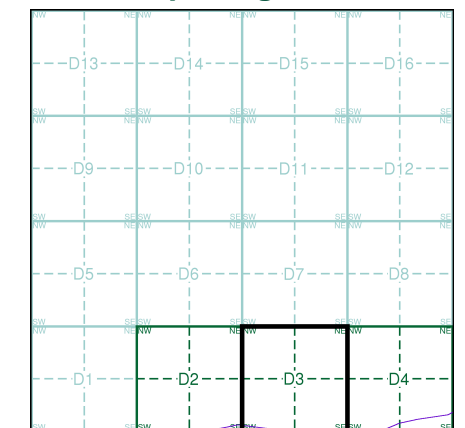
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D3

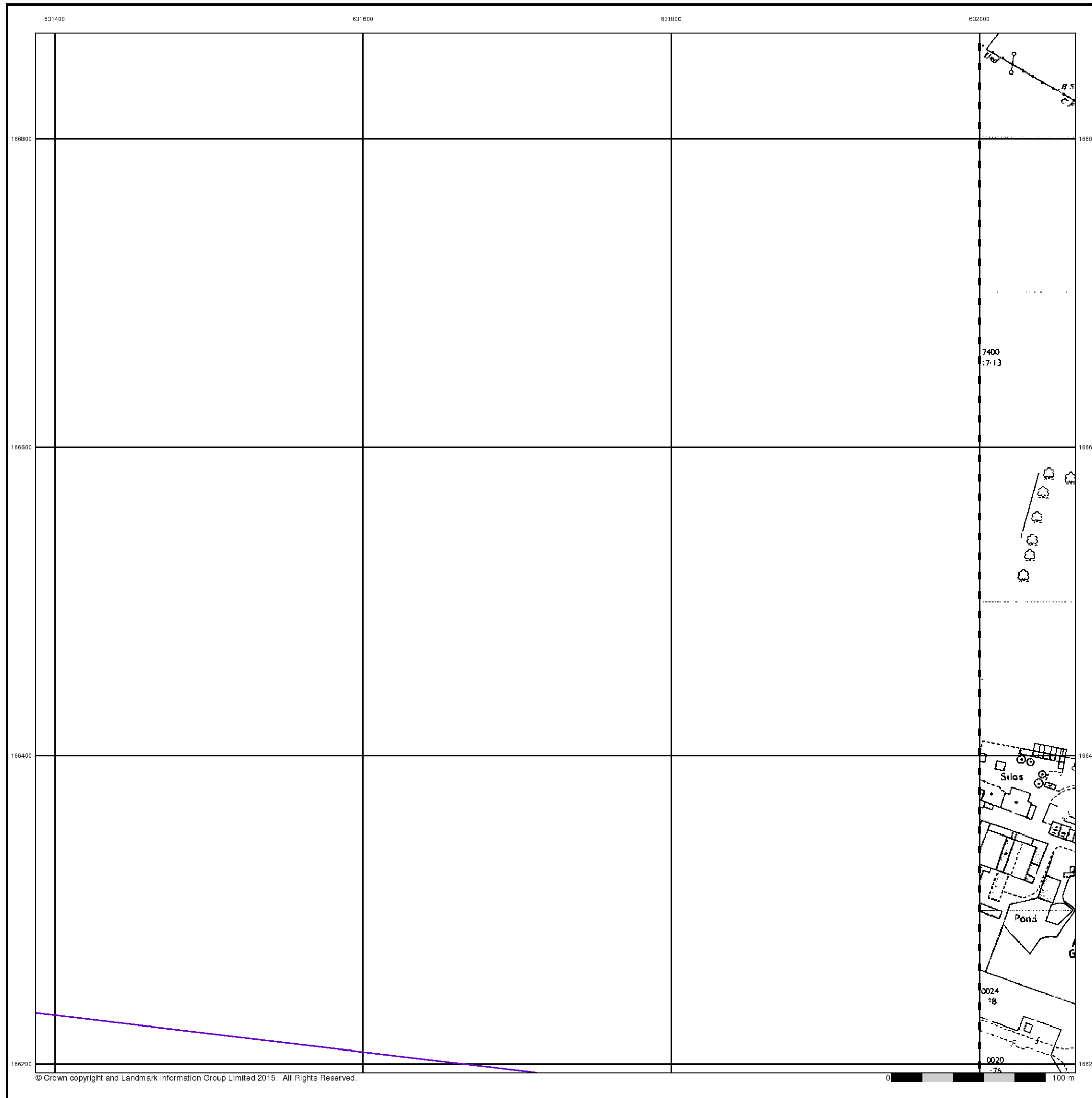


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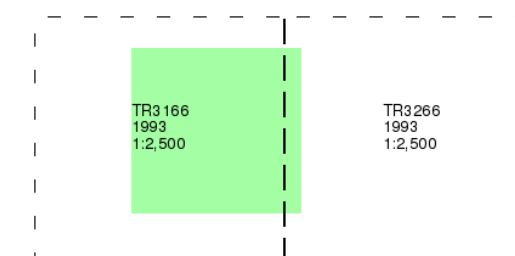
Large-Scale National Grid Data

Published 1993

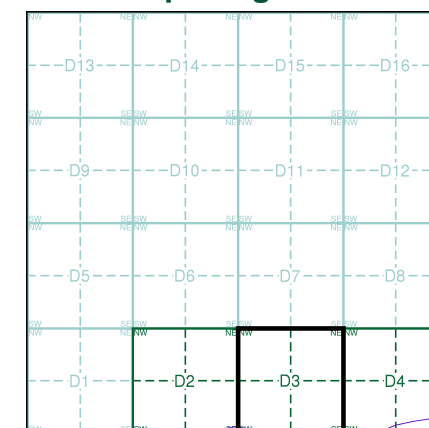
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D3

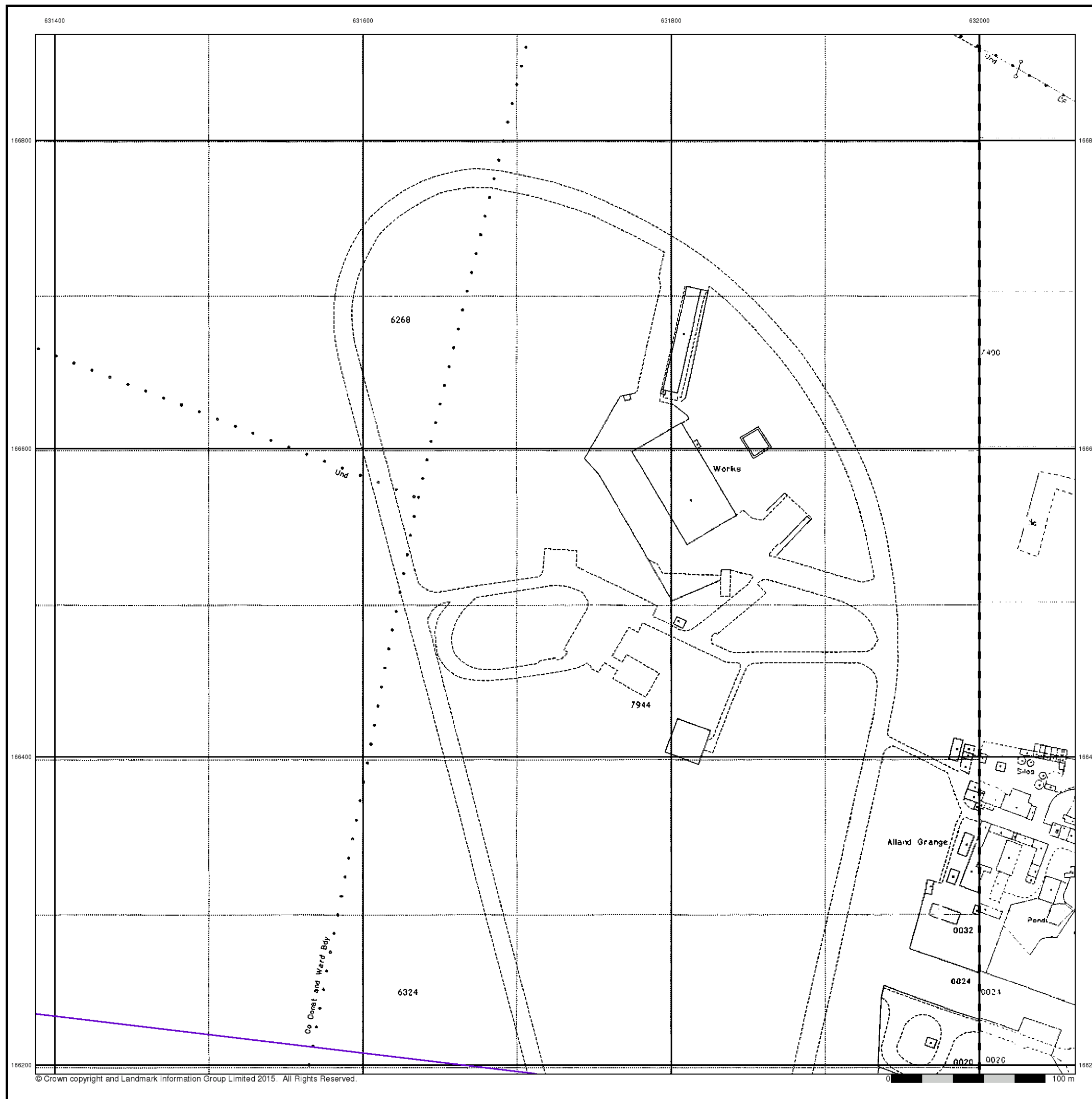


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



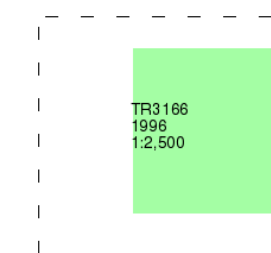
Large-Scale National Grid Data

Published 1996

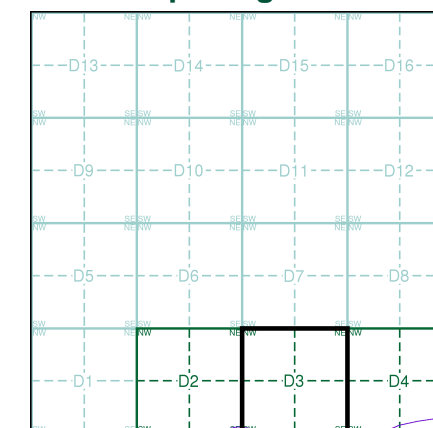
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D3



Order Details

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Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
Co. Boro. Bdy.
County Burgh Boundary (Scotland)
BP BS Boundary Post or Stone **P.C.B** Police Call Box
B.R. Bridle Road **P** Pump
E.P Electricity Pylon **S.P** Signal Post
F.B. Foot Bridge **SL** Sluice
F.P. Foot Path **Sp.** Spring
G.P Guide Post or Board **T.C.B** Telephone Call Box
M.S Mile Stone **Tr.** Trough
M.P M.R Mooring Post or Ring **W** Well

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes
BH Beer House **P** Pillar, Pole or Post
BP, BS Boundary Post or Stone **PO** Post Office
Cn, C Capstan, Crane **PC** Public Convenience
Chy Chimney **PH** Public House
D Fn Drinking Fountain **Pp** Pump
EI P Electricity Pillar or Post **SB, S Br** Signal Box or Bridge
FAP Fire Alarm Pillar **SP, SL** Signal Post or Light
FB Foot Bridge **Spr** Spring
GP Guide Post **Tk** Tank or Track
H Hydrant or Hydraulic **TCB** Telephone Call Box
LC Level Crossing **TCP** Telephone Call Post
MH Manhole **Tr** Trough
MP Mile Post or Mooring Post **Wr Pt, Wr T** Water Point, Water Tap
MS Mile Stone **W** Well
NTL Normal Tidal Limit **Wd Pp** Wind Pump

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

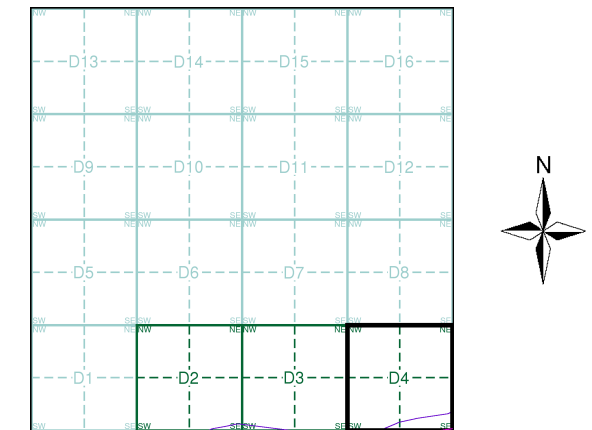
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
Bench Mark **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks Barracks **P** Pillar, Pole or Post
Bty Battery **PO** Post Office
Cemy Cemetery **PC** Public Convenience
Chy Chimney **Pp** Pump
Cis Cistern **Ppg Sta** Pumping Station
Dismtd Rly Dismantled Railway **PW** Place of Worship
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta** Sewage Pumping Station
EI P Electricity Pole, Pillar **SB, S Br** Signal Box or Bridge
EI Sub Sta Electricity Sub Station **SP, SL** Signal Post or Light
FB Filter Bed **Spr** Spring
Fn / D Fn Fountain / Drinking Ftn. **Tk** Tank or Track
Gas Gov Gas Valve Compound **Tr** Trough
GVC Gas Governor **Wd Pp** Wind Pump
GP Guide Post **Wr Pt, Wr T** Water Point, Water Tap
MH Manhole **Wks** Works (building or area)
MP, MS Mile Post or Mile Stone **W** Well



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1873 - 1894	2
Kent	1:2,500	1896	3
Kent	1:2,500	1907	4
Kent	1:2,500	1939	5
Ordnance Survey Plan	1:2,500	1964	6
Additional SIMs	1:2,500	1989	7
Large-Scale National Grid Data	1:2,500	1993	8

Historical Map - Segment D4



Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



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

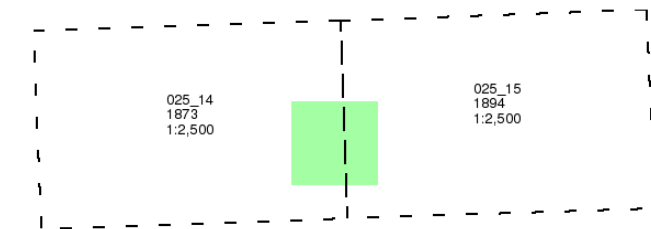
Kent

Published 1873 - 1894

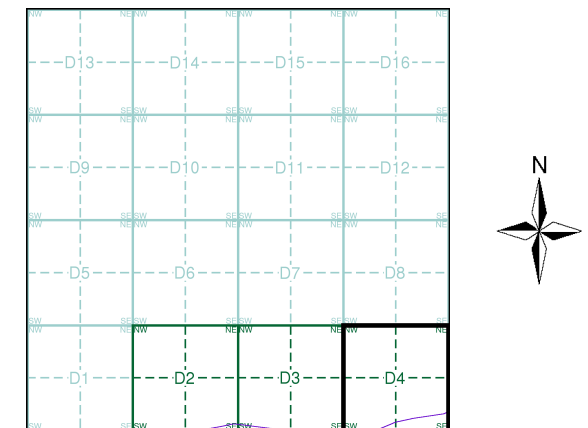
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D4

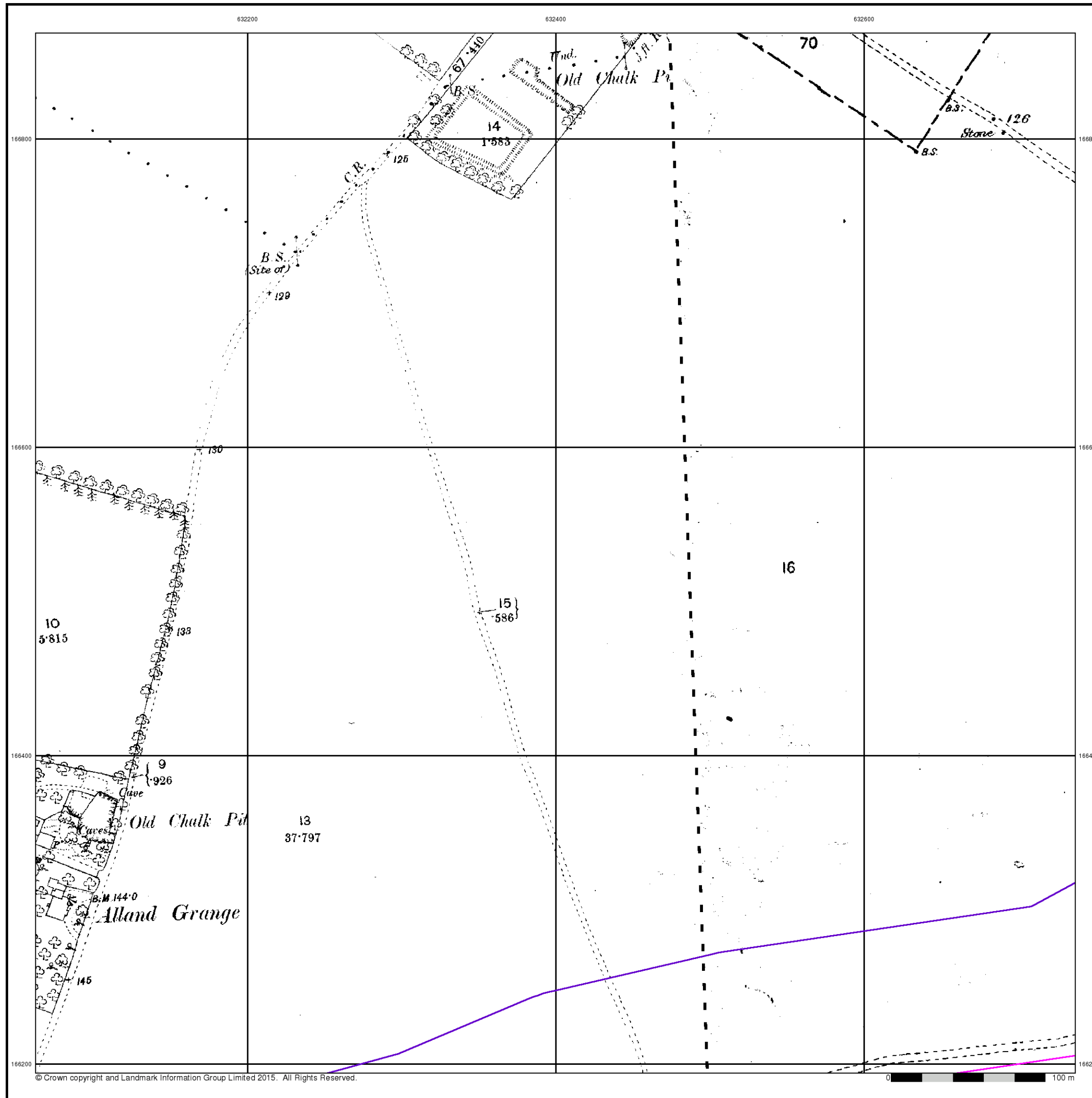


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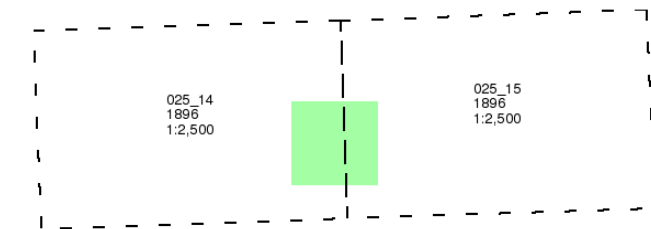
Kent

Published 1896

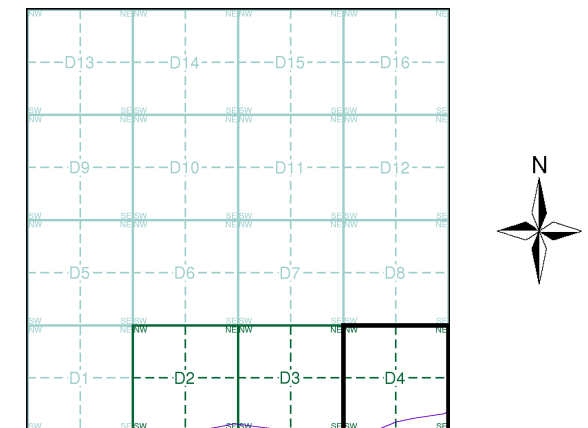
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D4

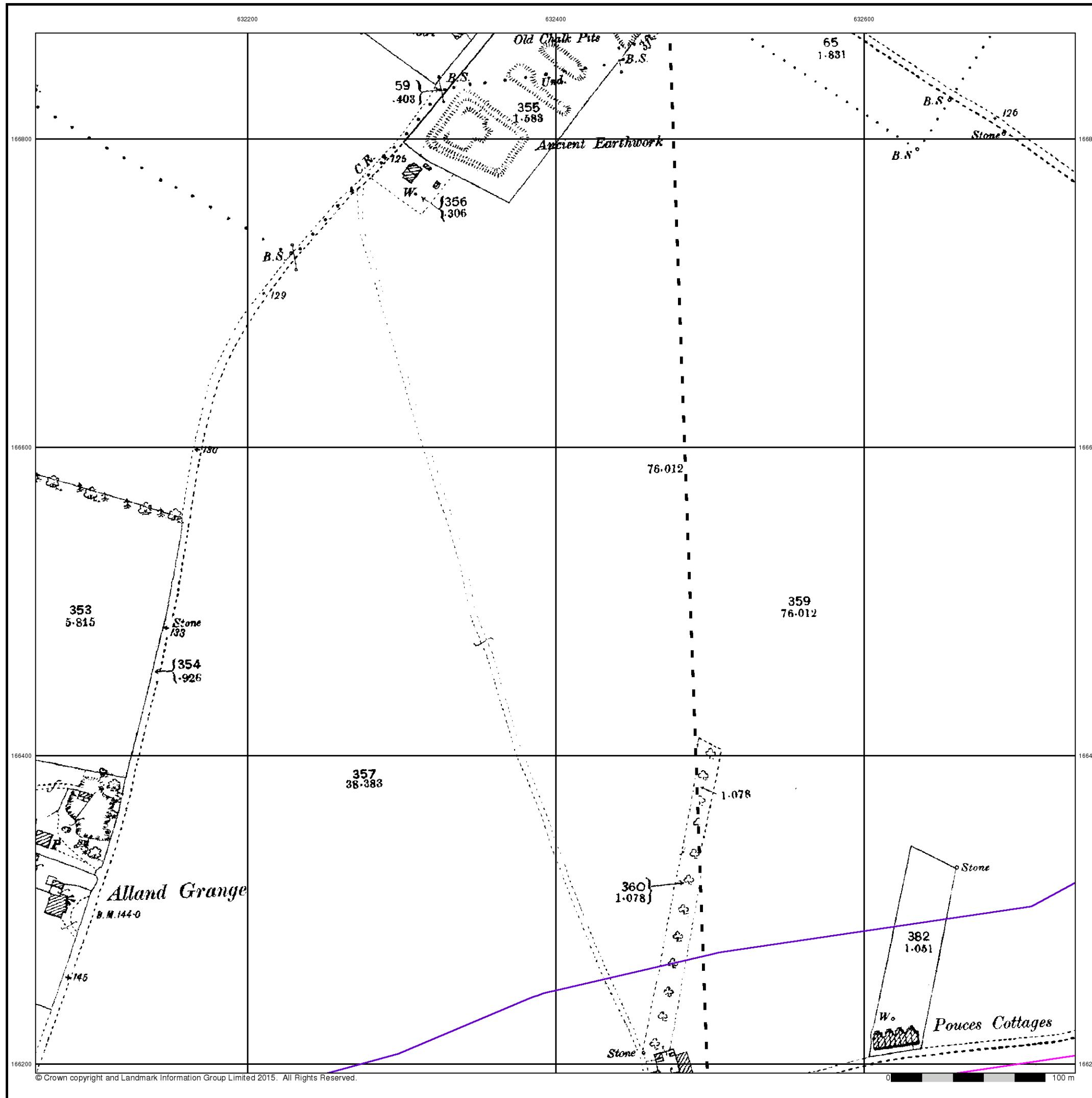


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 Manston, RAMSGATE, Kent, CT12 5BL



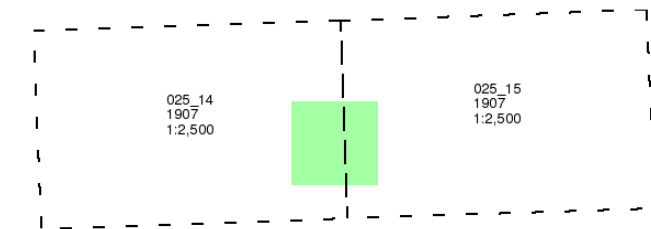
Kent

Published 1907

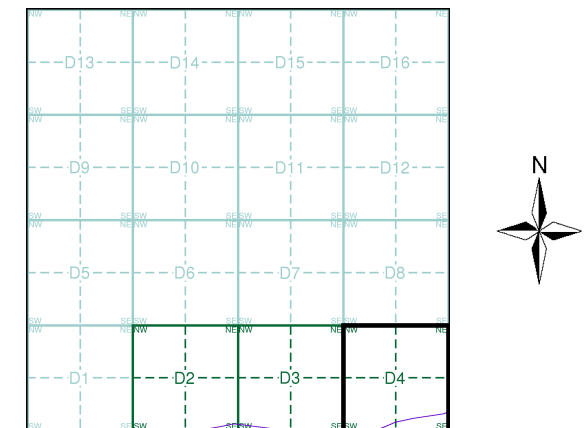
Source map scale - 1:2,500

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Historical Map - Segment D4

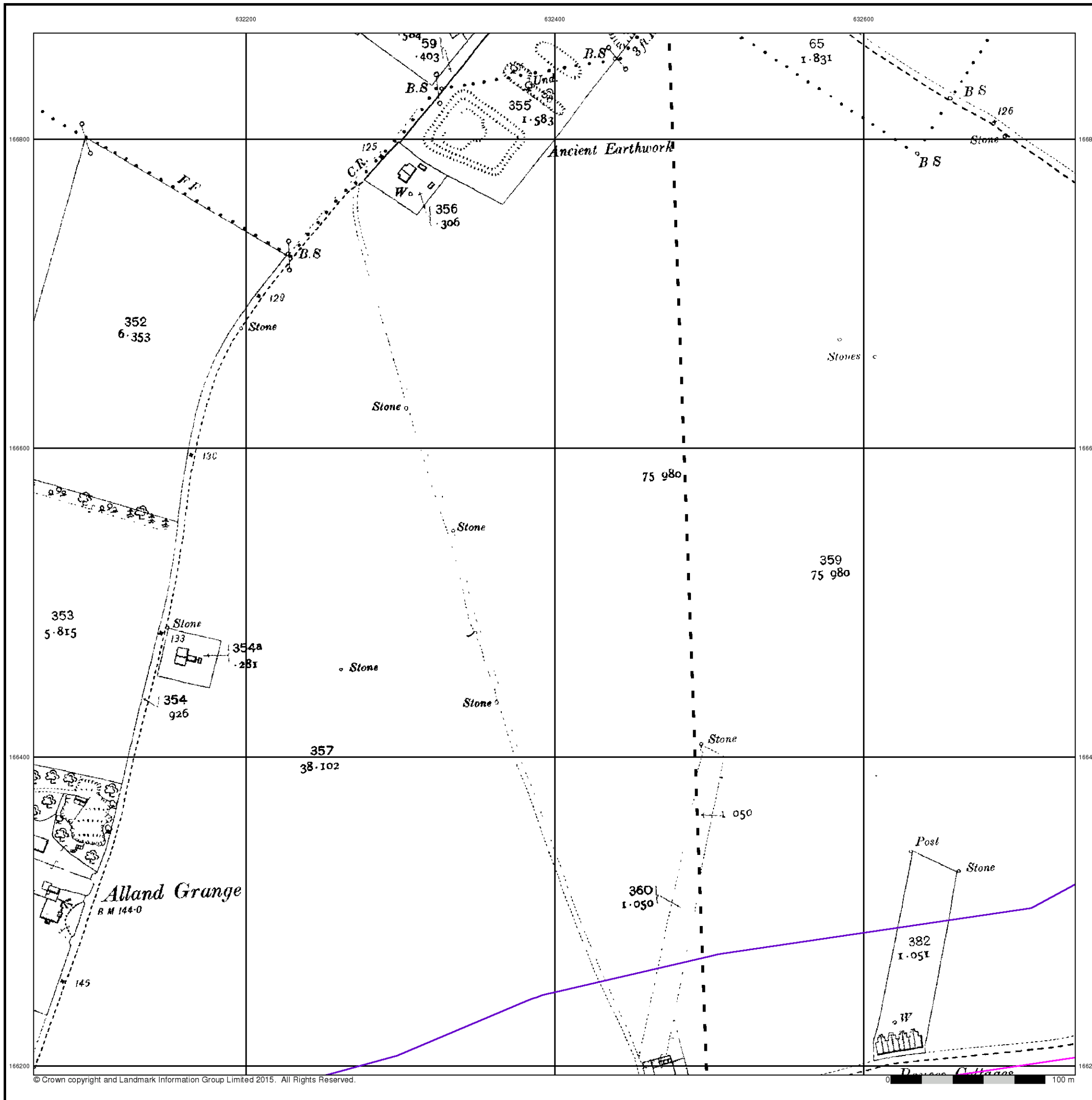


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Site Details

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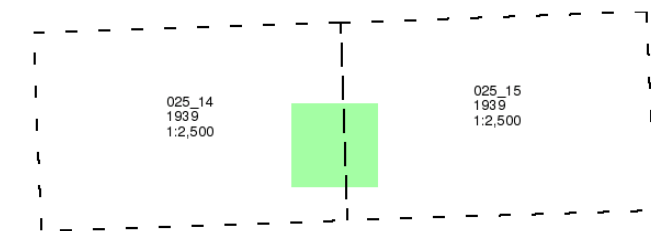
Kent

Published 1939

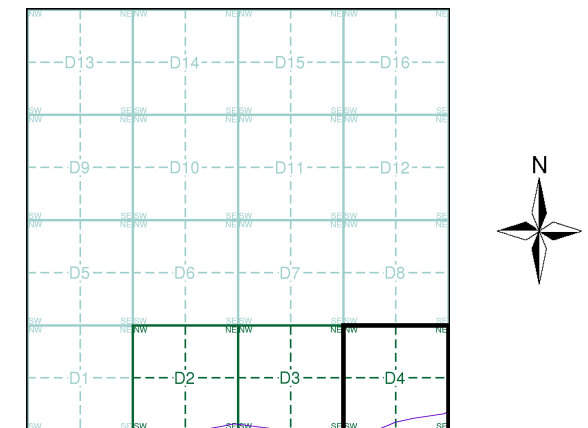
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D4

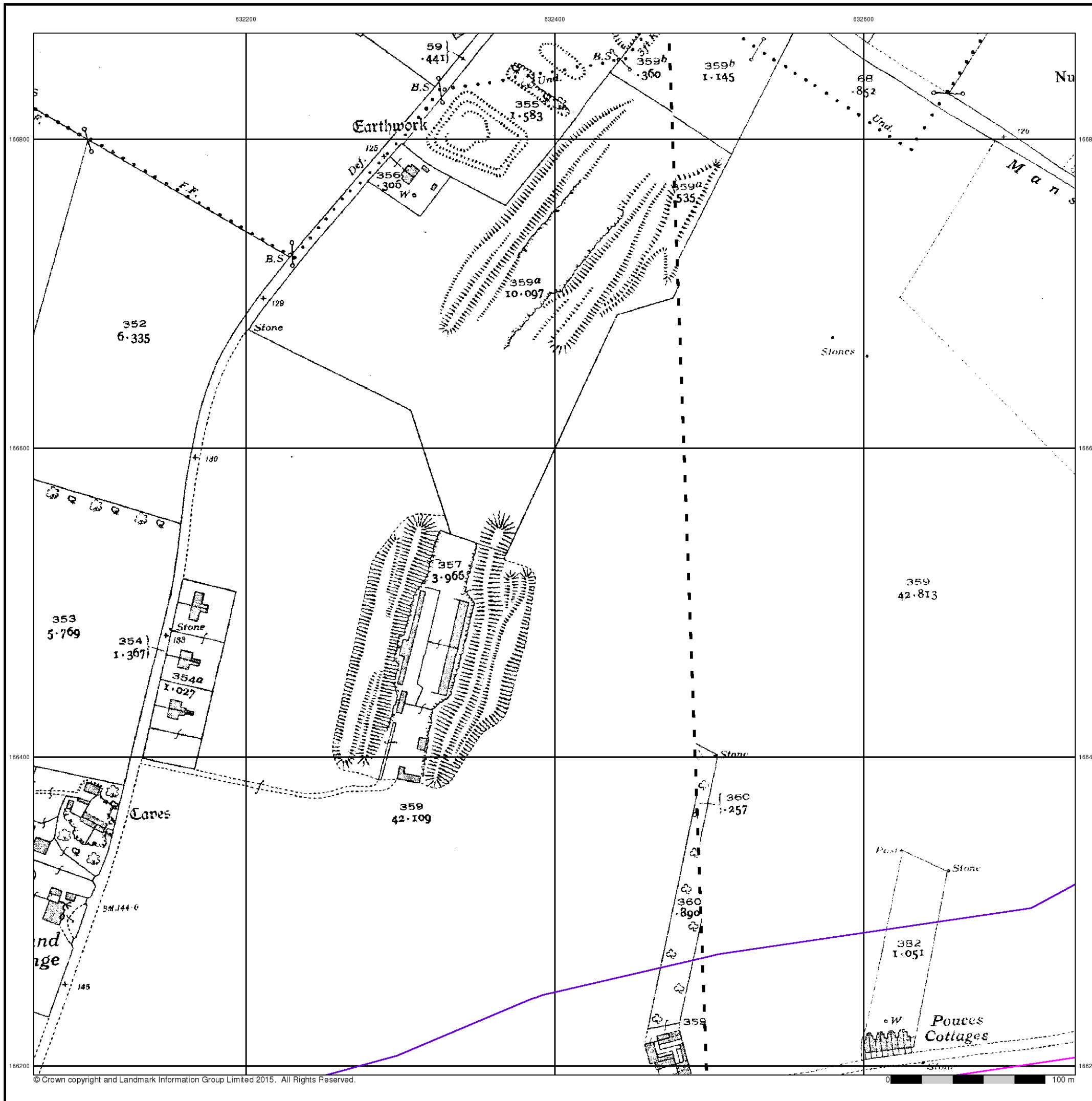


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 631600, 166640
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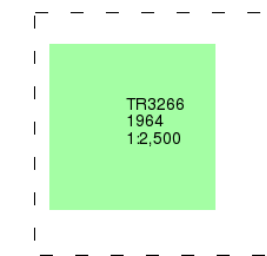
Ordnance Survey Plan

Published 1964

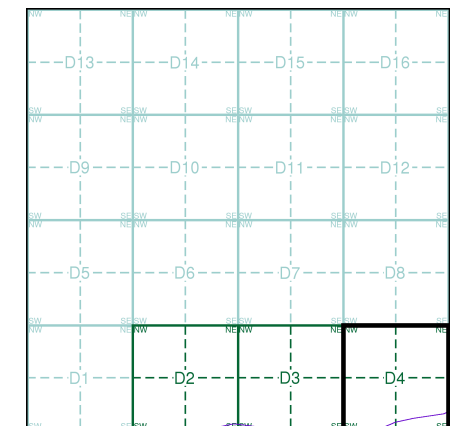
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D4

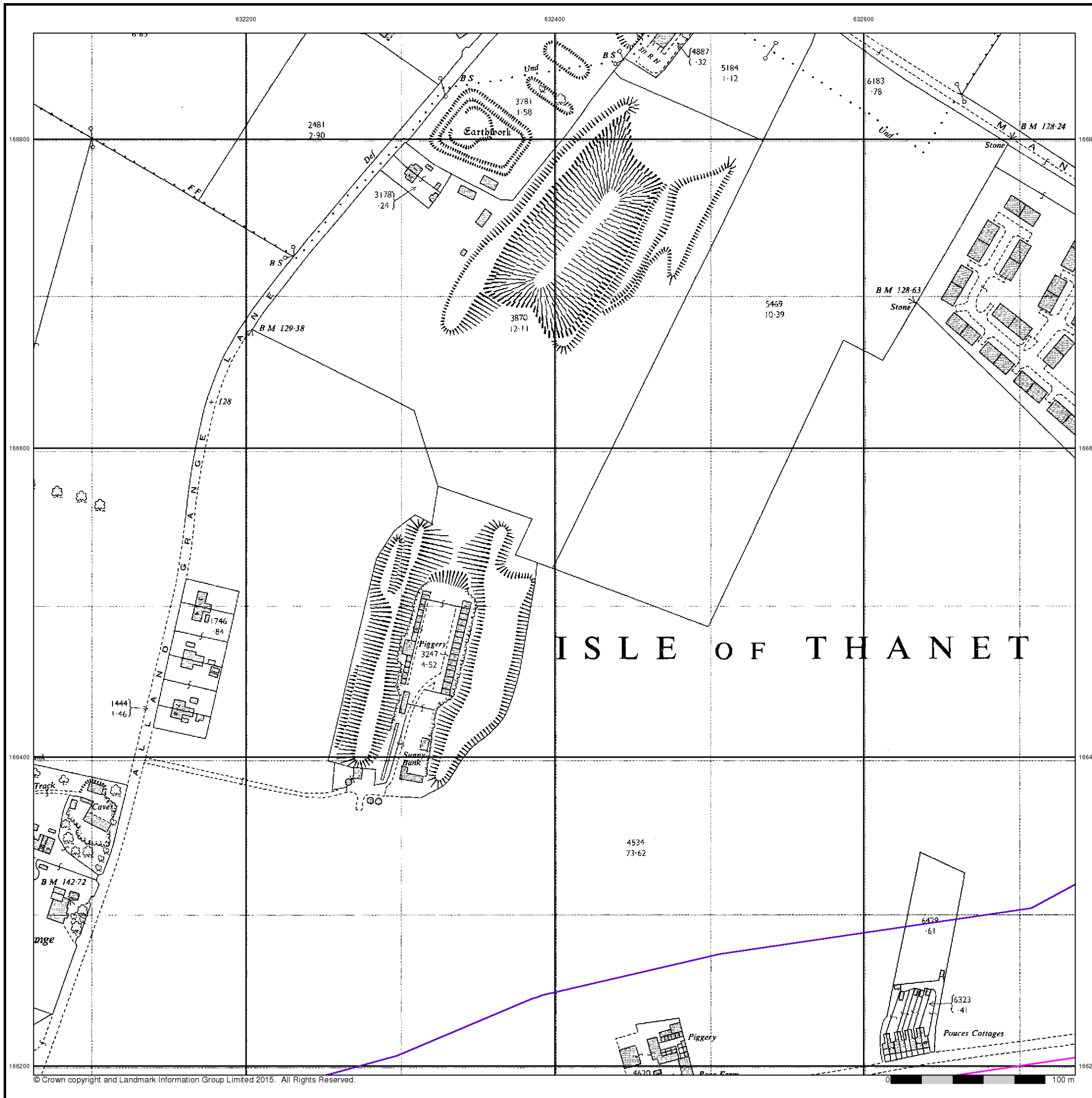


Order Details

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 National Grid Reference: 631600, 166640
 Slice: D
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



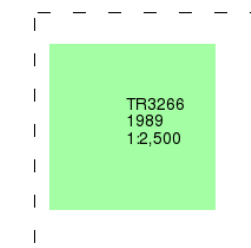
Additional SIMs

Published 1989

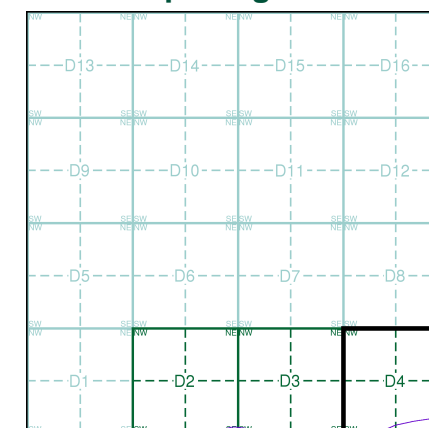
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment D4

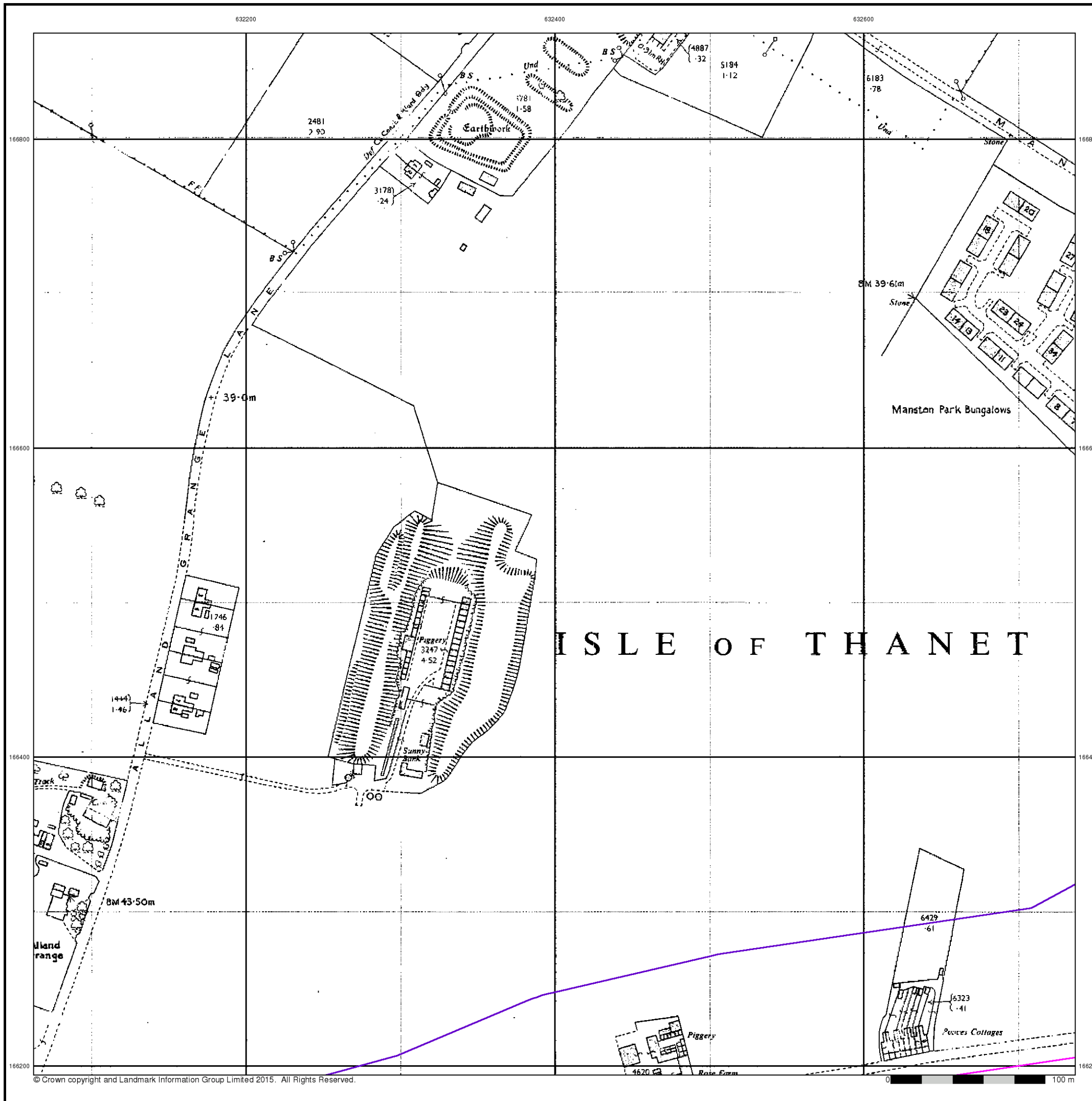


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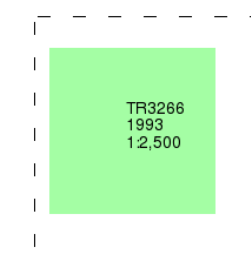
Large-Scale National Grid Data

Published 1993

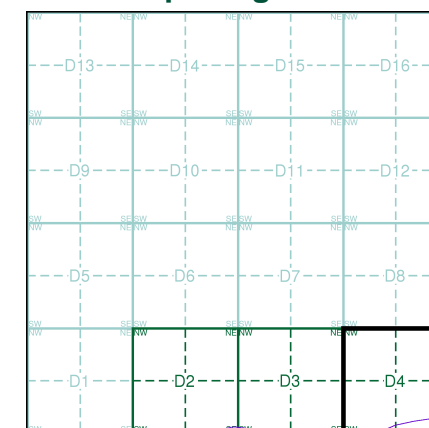
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment D4

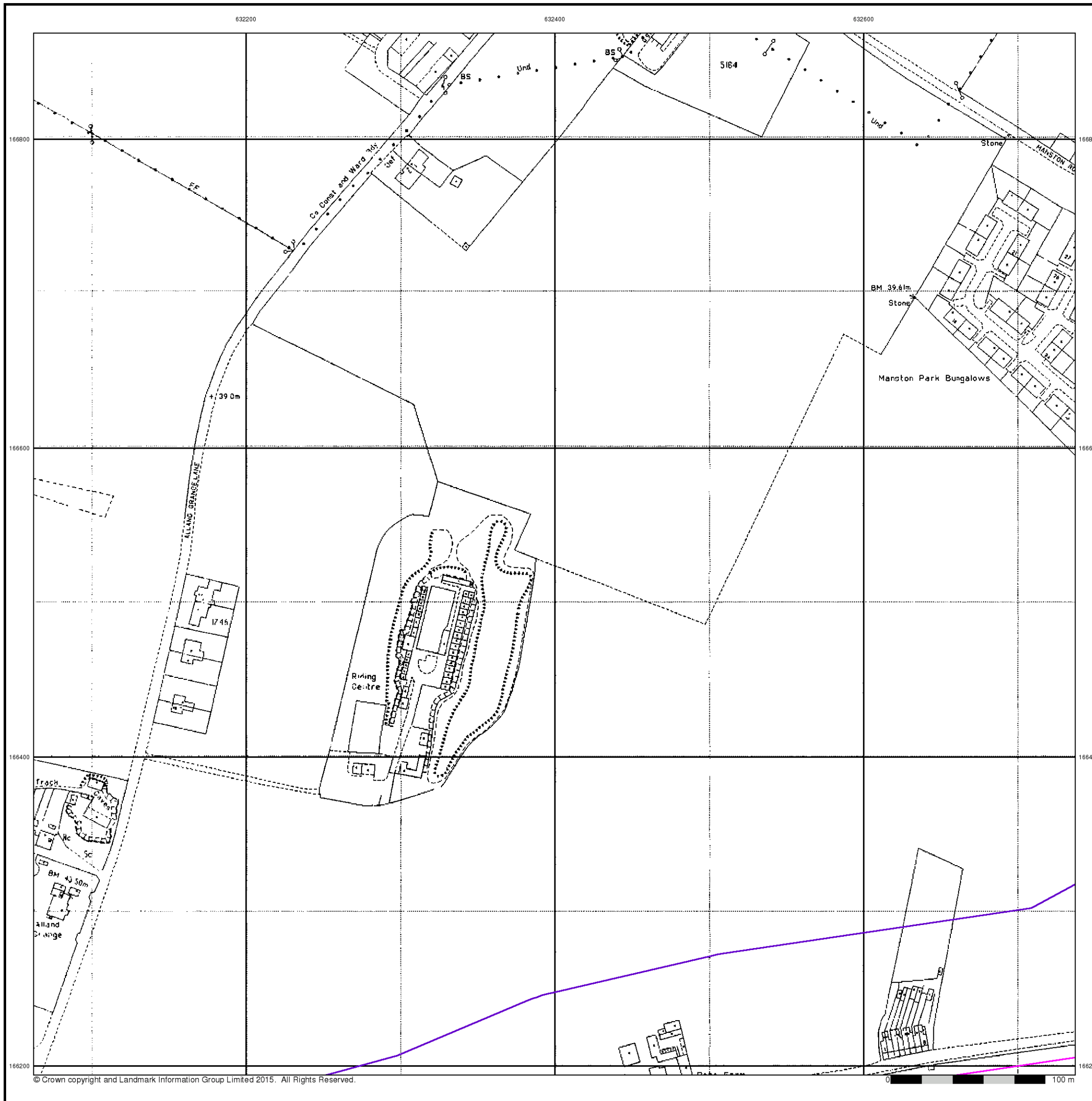


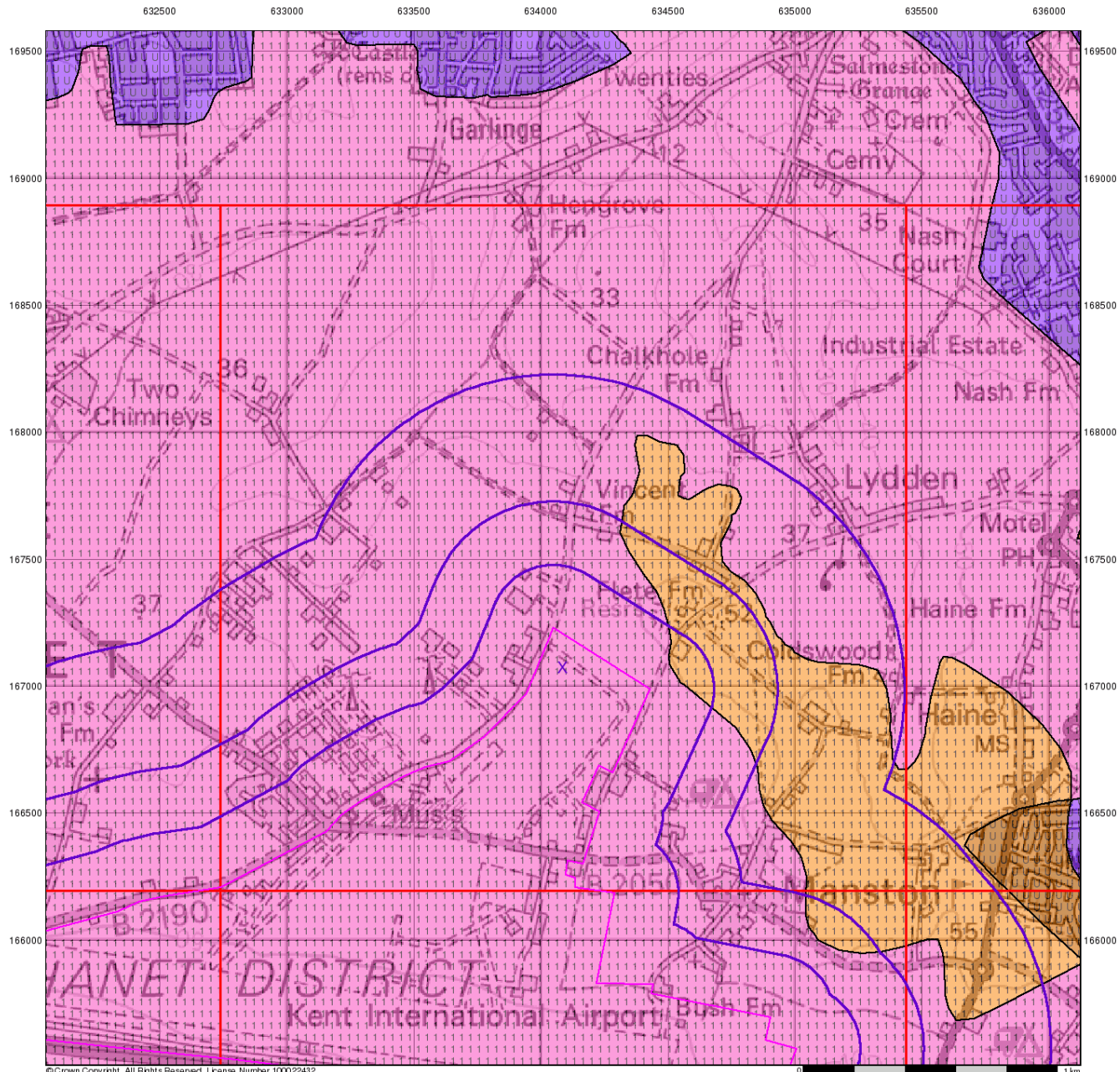
Order Details

Order Number: 82787389_1_1
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 National Grid Reference: 631600, 166640
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 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

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Groundwater Vulnerability

General

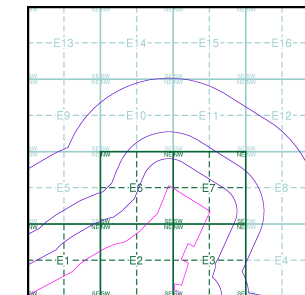
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- | | | |
|---|--|-----------------------|
| Major Aquifer
(Highly Permeable) | | High (H) 1, 2, 3, U |
| | | Intermediate (I) 1, 2 |
| | | Low |
| Minor Aquifer
(Variably Permeable) | | High (H) 1, 2, 3, U |
| | | Intermediate (I) 1, 2 |
| | | Low |
| Non Aquifer
(Negligibly Permeable) | | |
| Water or Sea | | |
| Drift Deposit | | |

Site Sensitivity Context Map - Slice E



Order Details

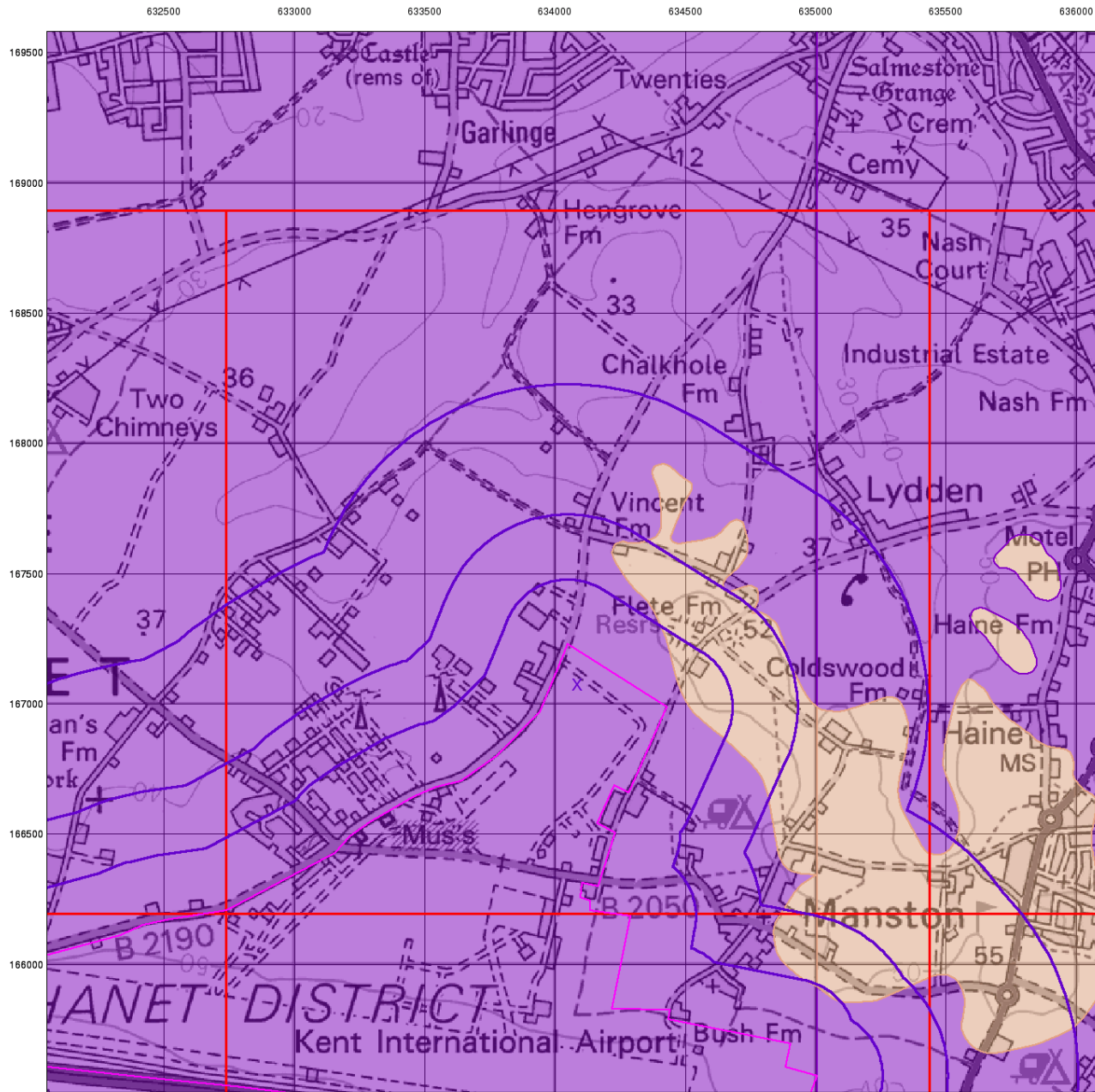
Order Number: 82787389_1.1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

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 RAMSGATE, Kent, CT12 5BL



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 Web: www.envirocheck.co.uk



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0 1 km



Bedrock Aquifer Designation

General

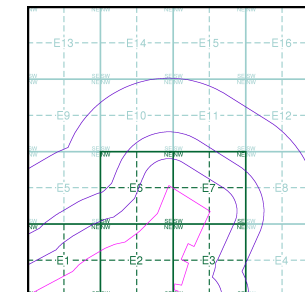
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice E



Order Details

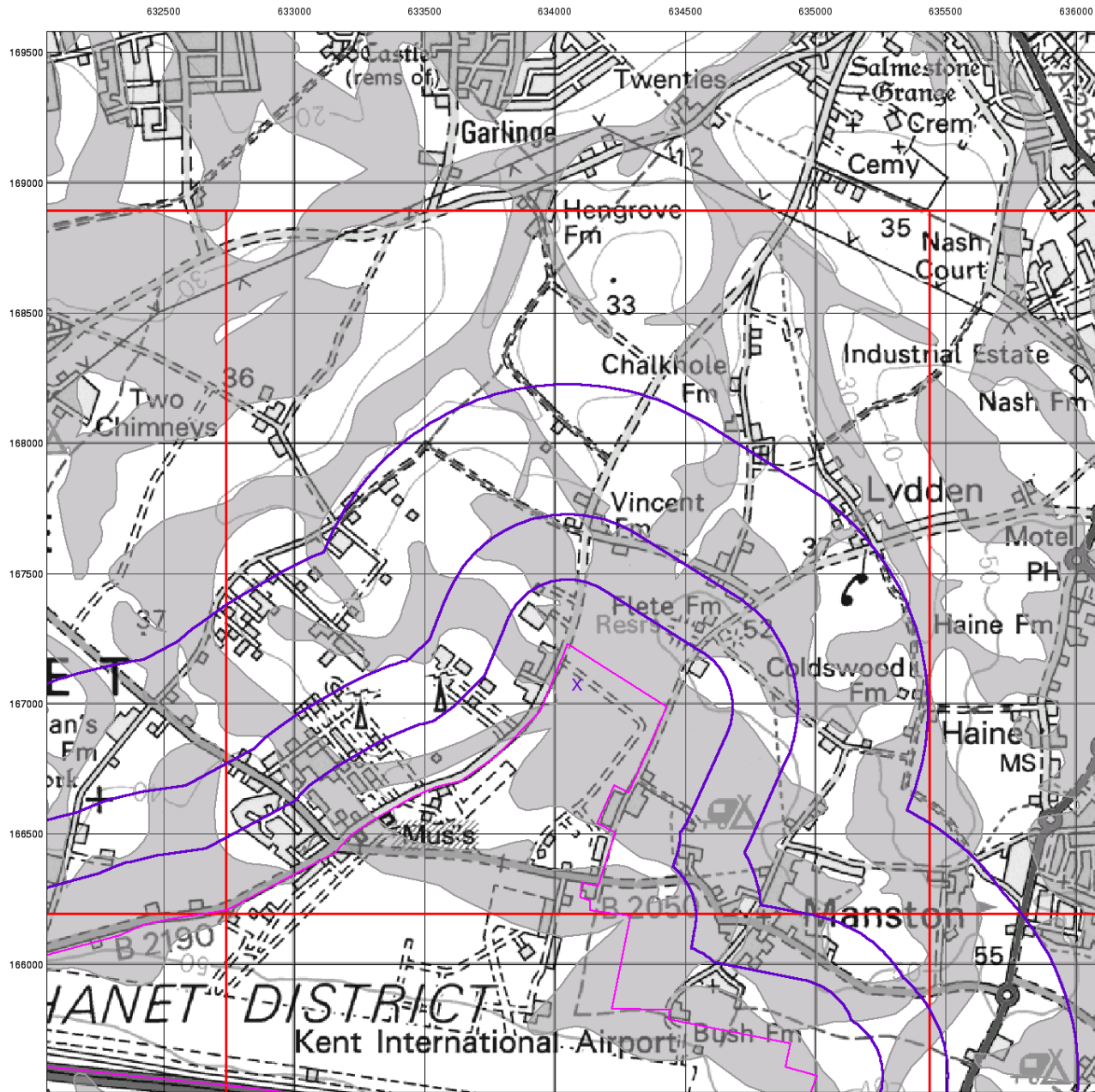
Order Number: 82787389_1.1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

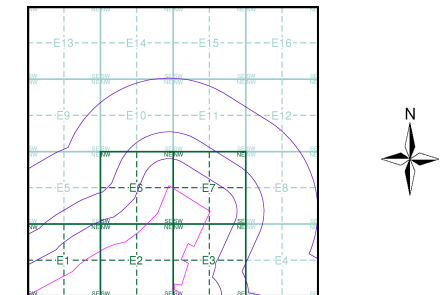
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice E



Order Details

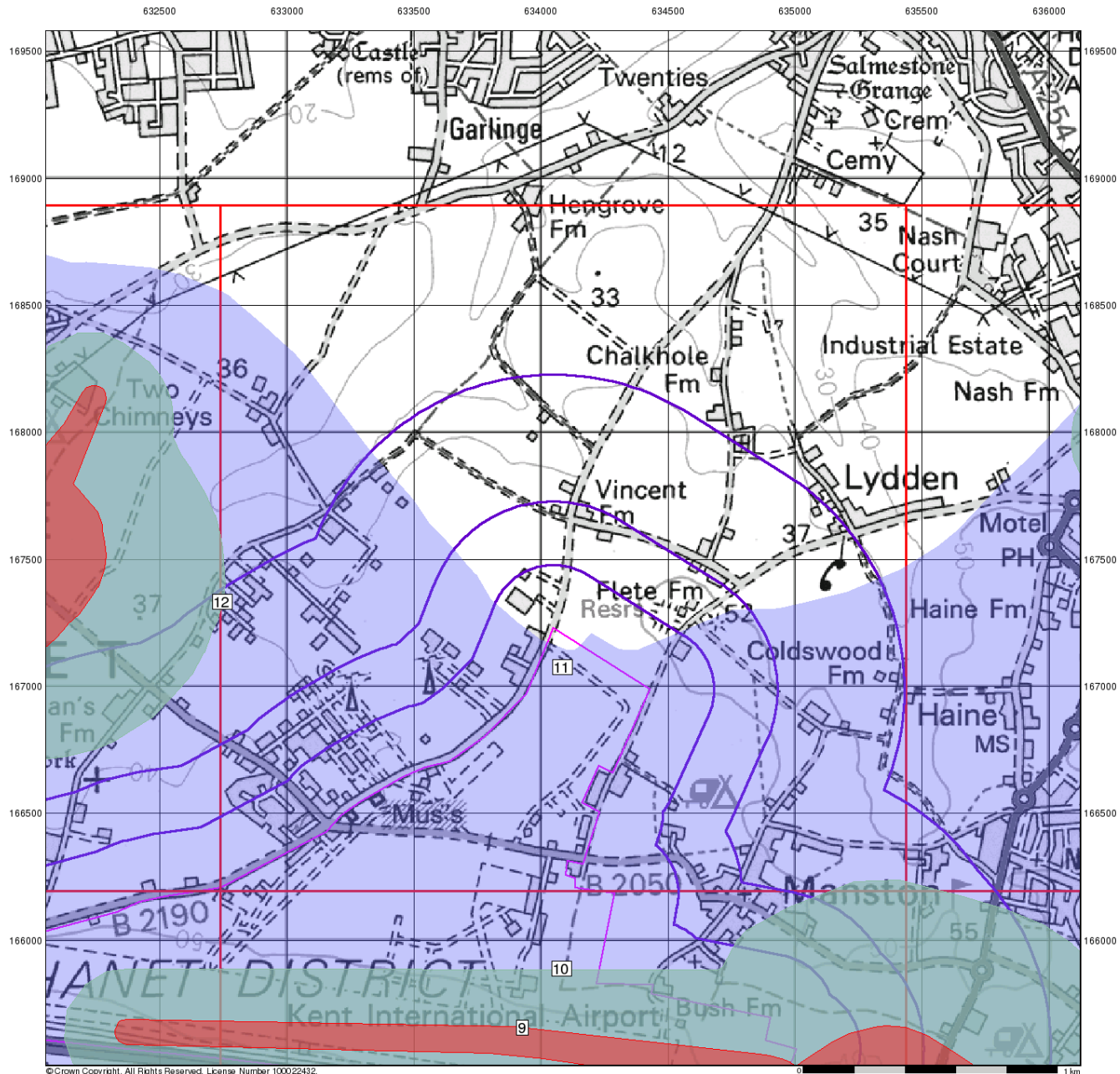
Order Number: 82787389_1.1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

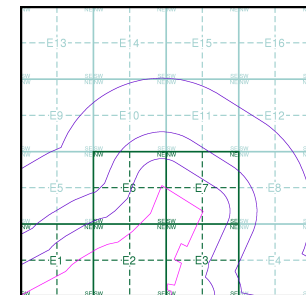
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice E



Order Details

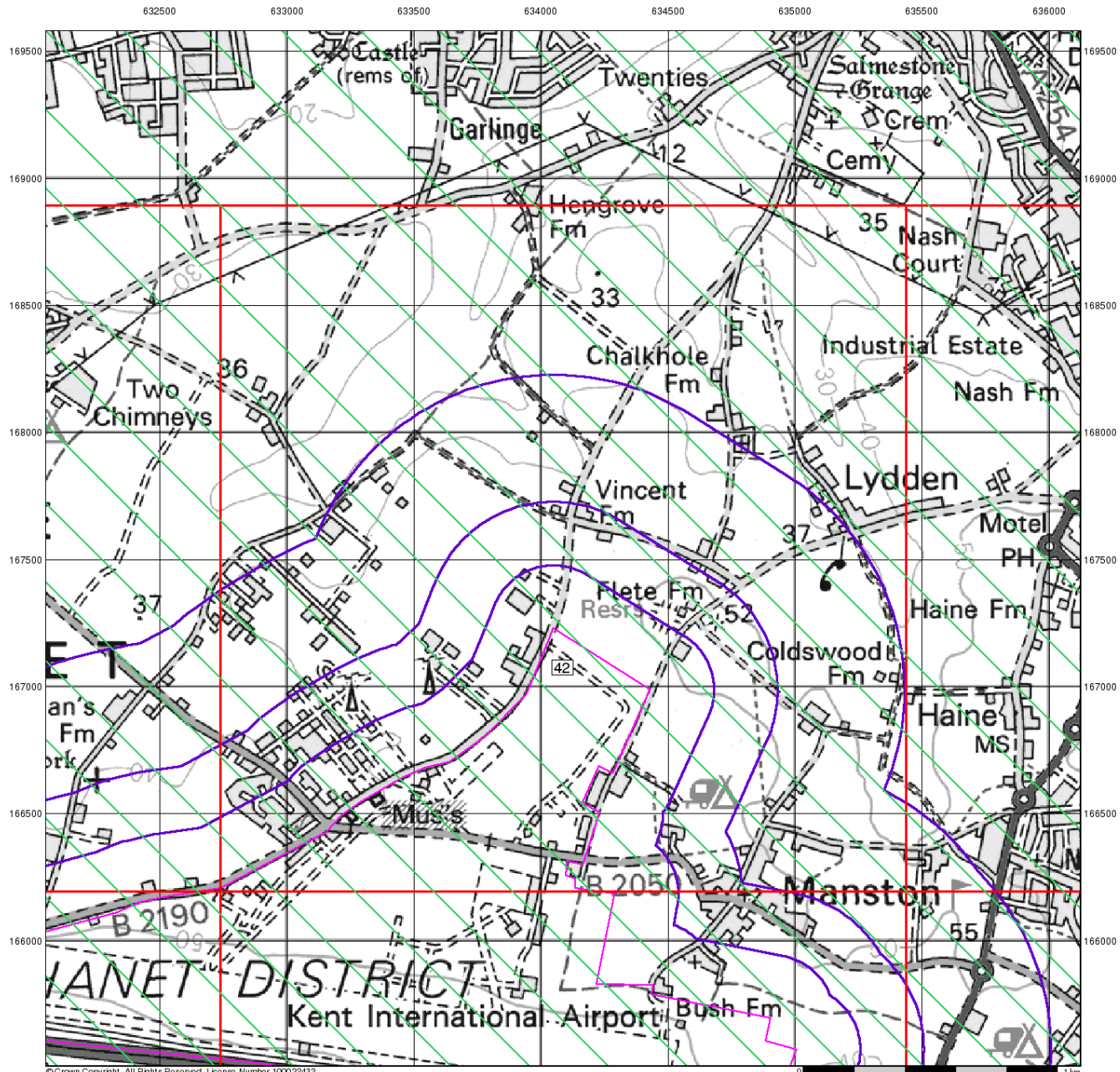
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Sensitive Land Uses

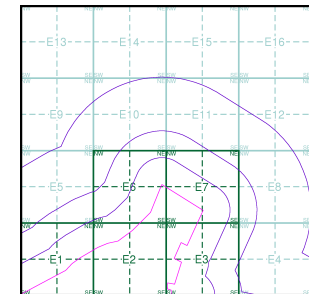
General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID

Sensitive Land Uses

-  Area of Adopted Green Belt
-  Area of Unadopted Green Belt
-  Area of Outstanding Natural Beauty
-  Environmentally Sensitive Area
-  Forest Park
-  Local Nature Reserve
-  Marine Nature Reserve
-  National Nature Reserve
-  National Park
-  Nitrate Sensitive Area
-  Nitrate Vulnerable Zone
-  Ramsar Site
-  Site of Special Scientific Interest
-  Special Area of Conservation
-  Special Protection Area

Site Sensitivity Context Map - Slice E



Order Details

Order Number: 82787389_1.1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport, Manston, RAMSGATE, Kent, CT12 5BL



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

Envirocheck[®] Report:

Datasheet

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Order Number:

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1000

Site Details:

Kent International Airport Ltd
Kent International Airport, Manston
RAMSGATE
Kent
CT12 5BL

Client Details:

Ms V Dahmoun
Amec Foster Wheeler E & I UK Ltd
Floor 4
60 London Wall
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United Kingdom
EC2M 5TQ

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	7
Hazardous Substances	-
Geological	9
Industrial Land Use	26
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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1	1	2		2
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 2	1	2		
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2		Yes		
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances	pg 2		1		
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 3			5	(*6)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 5	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 5	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 5	Yes	n/a	n/a	n/a
Source Protection Zones	pg 6	3			1
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines					n/a
Detailed River Network Offline Drainage					n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 7		1		1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 7		1		2
Local Authority Recorded Landfill Sites	pg 8		1		
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 8		1		1
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 9	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 9	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 21		1		3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability	pg 22	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 22			1	
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 22	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 23	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 23	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 23	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 24		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 24	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 25	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 26	4	4	6	10
Fuel Station Entries	pg 28		1		
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 29	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: Kent International Airport Ltd Property Type: Air Transport Location: Kent Int Airport, Raf Manston, MANSTON, Kent Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P02258 Permit Version: 1 Effective Date: 10th May 1989 Issued Date: 10th May 1989 Revocation Date: Not Supplied Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Saline Estuary Environment: Saline Estuary Receiving Water: Saline Estuary Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	E2SE (S)	0	2	634030 166280
2	<p>Discharge Consents</p> <p>Operator: Dds (Demolition) Limited Property Type: Domestic & Industrial Tip Location: Ddr Depot, Manston Road, Margate, Kent, Ct9 4jw Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P08023 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Into Land Environment: Into Land Receiving Water: Into Land Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	E6NE (N)	195	2	633980 167410
2	<p>Discharge Consents</p> <p>Operator: Thanet Waste Management Property Type: Domestic & Industrial Tip Location: Ddr Depot, Manston Road, Margate, Kent, Ct9 4jw Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P08023 Permit Version: 1 Effective Date: 19th June 2000 Issued Date: 19th June 2000 Revocation Date: 20th December 2012 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Into Land Environment: Into Land Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m</p>	E6NE (N)	195	2	633980 167410
3	<p>Discharge Consents</p> <p>Operator: Mpo Homes Ltd Property Type: Domestic Property (Multiple) Location: Stp Serving Vincent Farm Mews Premises At Vincent Farm Mews, Vincent Road, Manston, Nr Margate, Kent, Ct9 4ls Authority: Environment Agency, Southern Region Catchment Area: Thanet Chalk Reference: P20435 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Underground Water Environment: Underground Strata Receiving Water: Underground Strata Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	E11SW (N)	526	2	634183 167736

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Mpo Homes Ltd Property Type: Domestic Property (Multiple) Location: Stp Serving Vincent Farm Mews Premises At Vincent Farm Mews, Vincent Road, Manston, Nr Margate, Kent, Ct9 4ls Authority: Environment Agency, Southern Region Catchment Area: Thanet Chalk Reference: P20435 Permit Version: 1 Effective Date: 5th January 2005 Issued Date: 5th January 2005 Revocation Date: 20th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Underground Water Environment: Receiving Water: Underground Strata Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	E11SW (N)	526	2	634183 167736
4	Local Authority Pollution Prevention and Controls Name: Manston Motor Centre Ltd Location: Manston Road, RAMSGATE, Kent, CT12 5BH Authority: Thanet District Council, Environmental Health Department Permit Reference: 97/01 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Application Not Yet Authorised Positional Accuracy: Automatically positioned to the address	E3SW (S)	0	3	634160 166308
5	Local Authority Pollution Prevention and Controls Name: Drome Garage Location: Manston Road, MARGATE, Kent, CT9 4LT Authority: Thanet District Council, Environmental Health Department Permit Reference: 02/05 Dated: 4th December 1995 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Automatically positioned to the address	E6SE (W)	105	3	633813 166986
6	Local Authority Pollution Prevention and Controls Name: Downfast DemolitionThanet Waste Management Location: Manston Road, MARGATE, Kent, CT9 4 Authority: Thanet District Council, Environmental Health Department Permit Reference: 97/03 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/16 Mobile screening and crushing processes Status: Authorised Positional Accuracy: Manually positioned to the address or location	E6NE (N)	211	3	633993 167431
	Nearest Surface Water Feature	E6SE (NW)	15	-	634018 167194
7	Registered Radioactive Substances Name: Ministry Of Defence Location: Manston, Ramsgate, Kent, CT12 5BS Authority: Environment Agency, Southern Region Permit Reference: AM2212 Dated: 31st March 1991 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is not the subject of an authorisation, or an application for an authorisation made by the MOD Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Automatically positioned to the address	E1NE (SW)	48	2	633328 166623

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Water Abstractions Operator: L R Saunders Licence Number: 4/0210/A/GR Permit Version: Not Supplied Location: Pouces Nursery Authority: Environment Agency, Southern Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Pond or Lake Daily Rate (m3): 132 Yearly Rate (m3): 1818 Details: Additional Purpose: Agriculture Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	E1NW (W)	474	2	632855 166805
8	Water Abstractions Operator: Mrs E Green Licence Number: 9/40/04/0210/Gr Permit Version: 101 Location: Well At Pouces Nursery, Near Manston Airfield Authority: Environment Agency, Southern Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Shown Coloured Pink And The Greenhouses Hatched Black On The Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th December 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	E1NW (W)	481	2	632850 166810
8	Water Abstractions Operator: Mrs E Green Licence Number: 9/40/04/0210/Gr Permit Version: 101 Location: Well At Pouces Nursery, Near Manston Airfield Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Shown Coloured Pink On The Map. Authorised Start: 01 June Authorised End: 30 September Permit Start Date: 4th December 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	E1NW (W)	481	2	632850 166810
8	Water Abstractions Operator: Mrs L R Saunders Licence Number: 9/40/04/0210/Gr Permit Version: 100 Location: Well At Pouces Nursery, Near Manston Airfield Authority: Environment Agency, Southern Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Shown Coloured Pink And The Greenhouses Hatched Black On The Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd February 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	E1NW (W)	481	2	632850 166810

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Water Abstractions Operator: Mrs L R Saunders Licence Number: 9/40/04/0210/Gr Permit Version: 100 Location: Well At Pouces Nursery, Near Manston Airfield Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Shown Coloured Pink On The Map. Authorised Start: 01 June Authorised End: 30 September Permit Start Date: 3rd February 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	E1NW (W)	481	2	632850 166810
	Water Abstractions Operator: The Quex Park Estates Co Ltd Licence Number: So/040/0013/003 Permit Version: 1 Location: Point A, Borehole At Woodchurch Road, Birchington, Kent Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 16th September 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	E9NE (NW)	1085	2	633190 167890
	Water Abstractions Operator: The Quex Park Estates Co Ltd Licence Number: 13/034 Permit Version: 1 Location: Point A, Borehole At Woodchurch Road, Birchington, Kent Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: As Boldly Outlined On Map Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 25th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	E9NE (NW)	1085	2	633190 167890
	Water Abstractions Operator: Hatfeild Farms Licence Number: 9/40/04/0482/G Permit Version: 101 Location: Point B1 At Hengrove Farm, Garlinge Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land Outlined Thickly On The Map Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st December 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	E14NE (N)	1619	2	633900 168840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Hatfield Farms Licence Number: 9/40/04/0482/G Permit Version: 100 Location: Point B1 At Hengrove Farm, Garlinge Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 909 Yearly Rate (m3): 81818.2 Details: Land Outlined Thickly On The Map Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 11th November 1985 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	E14NE (N)	1619	2	633900 168840
	Water Abstractions Operator: Hatfield Farms Licence Number: 9/40/04/0482/G Permit Version: 101 Location: Point B2 At Hengrove Farm, Garlinge Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land Outlined Thickly On The Map Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st December 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1724	2	633970 168950
	Water Abstractions Operator: Hatfield Farms Licence Number: 9/40/04/0482/G Permit Version: 100 Location: Point B2 At Hengrove Farm, Garlinge Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land Outlined Thickly On The Map Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 11th November 1985 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1724	2	633970 168950
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 47 East Kent Scale: 1:100,000	E6SE (SE)	0	2	634085 167074
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 47 East Kent Scale: 1:100,000	E6SE (SE)	0	2	634085 167074
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	E6SE (SE)	0	4	634085 167074
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	E8SW (E)	0	4	635005 167074
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	E8SW (E)	0	4	635005 167074
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	E6SE (SE)	0	4	634085 167074

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	E1SW (SW)	0	4	633002 166331
9	Source Protection Zones Name: Lord Of The Manor Source: Environment Agency, Head Office Reference: Su036 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	(S)	0	2	633927 165655
10	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	(S)	0	2	634083 165886
11	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	E6SE (SE)	0	2	634085 167074
12	Source Protection Zones Name: Sparrows Castle Source: Environment Agency, Head Office Reference: Su032 Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	E5NW (W)	628	2	632748 167333
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
	Detailed River Network Lines None				
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	<p>Historical Landfill Sites</p> <p>Licence Holder: Not Supplied Location: Manston, Thanet, Kent Name: Manston Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19392 First Input Date: 1st January 1974 Last Input Date: 31st December 1987 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2200/7276 BGS Ref: Not Supplied Other Ref: TH8</p>	E6NE (N)	76	2	634037 167302
14	<p>Historical Landfill Sites</p> <p>Licence Holder: Not Supplied Location: Flete, Kent Name: Vincent Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD19384 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: TH27</p>	E11SW (N)	502	2	634123 167724
15	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 19472 Location: Land/ Premises At, Manston Road, Margate, Kent, CT9 4JW Operator Name: Leslie John Ray Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Issued Issued: 4th March 1996 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	E6NE (N)	91	2	634026 167316
16	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 402019 Location: J C Mccarthy Buidling Supplies Ltd, Manston Road, Margate, Kent, CT9 4LS Operator Name: J Mccarthy Building Supplies Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Treatment of waste to produce soil <75,000 tpy Licence Status: Issued Issued: 23rd January 2015 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	E11SW (N)	537	2	634107 167761
17	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 19468 Location: The Bungalow, Queensdown Road, Woodchurch, Birchington, Kent, CT7 0HG Operator Name: Attwell Kenneth G Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Surrendered Issued: 4th October 1991 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 16th April 2013 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	E5NE (W)	717	2	633107 167268

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Thanet District Council - Has supplied landfill data		0	3	634085 167074
	Local Authority Landfill Coverage Name: Kent County Council - Had landfill data but passed it to the relevant environment agency		0	8	634085 167074
18	Local Authority Recorded Landfill Sites Location: Manston Road Piggery Reference: TH8 Authority: Thanet District Council, Environmental Health Department Last Reported Status: Closed Types of Waste: Non Degradable Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	E6NE (N)	66	3	634052 167293
19	Registered Waste Transfer Sites Licence Holder: L J Ray t/a Thanet Waste Management Licence Reference: P/08/26 Site Location: The Dump at Manston Road, MARGATE, Kent, CT9 4LT Operator Location: The Manor House, Monkton Street, Monkton, RAMSGATE, Kent, CT12 4JQ Authority: Environment Agency - Southern Region, Kent Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 4th March 1996 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Domestic Appliances Ferrous Metal Scrap Kent Cat. A - Non (V.Slow)-Degradable W Kent Cat. B1 - Slowly Degradable Waste Kent Cat. B2 - Scrap Metal Comprising Non-Ferrous Metal Scrap Office Furniture & Equipment Unsorted Scrap Metal Prohibited Waste: Max.Waste Permitted By Licence Spec.Waste (Epa'90:S62/1996 Regs) Waste N.O.S.	E6NE (N)	179	2	634000 167400
20	Registered Waste Transfer Sites Licence Holder: K G Attwell Licence Reference: P/08/10 Site Location: The Bungalow, Queensdown Road, Woodchurch, BIRCHINGTON, Kent, CT7 0HG Operator Location: As Site Address Authority: Environment Agency - Southern Region, Kent Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 4th October 1991 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Kent Cat. A -Inert * Kent Cat. B -Slowly Degradable * Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs) Waste N.O.S.	E5SE (W)	606	2	633220 167200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	E6SE (SE)	0	4	634085 167074
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E6SE (SW)	0	4	633977 166906
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E6SE (SW)	0	4	634000 166910
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E6SE (W)	0	4	634000 167074
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E1SW (SW)	0	4	632997 166332
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E6SE (SE)	0	4	634085 167074
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E6SE (SW)	0	4	634000 167000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6SE (S)	0	4	634085 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E7SW (S)	0	4	634098 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E1NW (W)	0	4	633000 166671
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6SE (SW)	0	4	633993 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6SE (SW)	0	4	634000 167035
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E3SW (S)	0	4	634151 166374

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6SE (SW)	0	4	634000 167001
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6SE (S)	0	4	634084 167008
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E2NE (S)	0	4	634024 166605
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6SE (SW)	0	4	634000 167035
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E2SW (SW)	0	4	633664 166239
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6NE (NW)	37	4	634000 167209

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6SE (NW)	38	4	633994 167197
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6NE (NW)	44	4	634000 167226
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E7SE (E)	69	4	634444 167166
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E7SE (E)	74	4	634503 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E7SE (E)	109	4	634470 167123
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E7NW (NE)	126	4	634228 167263

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6NE (N)	156	4	634015 167380
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E7SE (E)	170	4	634599 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E6NE (N)	178	4	634000 167399
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E3SE (SE)	207	4	634722 166257
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E7NW (N)	237	4	634114 167455
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E5SW (W)	280	4	633000 166948

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E4SW (SE)	294	4	634850 166442
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E4SW (SE)	319	4	635000 166373
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SW (E)	341	4	635000 166942
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SW (E)	384	4	634814 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E7NW (NE)	409	4	634393 167494
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E7NE (NE)	431	4	634459 167478

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E11SW (N)	453	4	634216 167648
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E7NE (NE)	482	4	634647 167439
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E11SW (NE)	497	4	634348 167626
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E5SW (W)	497	4	633000 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E5SW (W)	540	4	633000 167074
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E11SE (NE)	546	4	634446 167622

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SW (E)	556	4	634986 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SW (E)	557	4	634966 167140
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8NW (E)	569	4	634867 167364
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SW (E)	570	4	635000 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SW (E)	570	4	635000 166988
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SW (E)	570	4	635000 167074

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E5SW (W)	573	4	632941 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SW (E)	578	4	635000 167084
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E11SE (NE)	584	4	634520 167621
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E4NE (E)	587	4	635155 166759
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E10SE (N)	590	4	633856 167785
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E4SW (SE)	593	4	634846 166465

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic <15 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	E4SW (SE)	594	4	634851 166473
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic <15 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	E11SW (NE)	605	4	634403 167719
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic <15 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	E8SW (E)	636	4	635034 167188
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	E4NW (SE)	657	4	635000 166653
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic <15 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	E8NW (E)	680	4	635000 167359
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic <15 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 60 - 90 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <150 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	E5NE (W)	698	4	633261 167317

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E10NE (N)	742	4	634000 167968
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E5NW (W)	749	4	633000 167243
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SE (E)	761	4	635191 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8NW (NE)	763	4	635000 167496
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E10NE (N)	773	4	634085 168000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E10NE (N)	774	4	634000 168000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E10NE (N)	776	4	633974 168000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E10NE (N)	787	4	633898 168000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SE (E)	815	4	635245 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SE (E)	824	4	635241 167136
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E9SW (NW)	825	4	633000 167873
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E12SW (NE)	843	4	635000 167608

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SE (E)	893	4	635323 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	(E)	899	4	635488 166752
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SE (E)	904	4	635328 166886
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E8SE (E)	912	4	635351 166910
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	E11NE (NE)	970	4	634641 168000
21	BGS Recorded Mineral Sites Site Name: Fleete Court Brick Works Location: , Manston, Margate, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 131182 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Thanetian Geology: Thanet Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	E7SE (E)	182	4	634606 167036

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	BGS Recorded Mineral Sites Site Name: Vincent Farm Chalk Pit Location: , Lydden, Margate, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 130925 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: Margate Chalk Member Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	E11SW (N)	517	4	634092 167743
23	BGS Recorded Mineral Sites Site Name: Sprattling Street Brick Works Location: , Northwood, Margate, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 131181 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Thanetian Geology: Thanet Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	E4NW (SE)	733	4	635047 166572
24	BGS Recorded Mineral Sites Site Name: Coldswood Chalk Pit Location: , Harne, Northwood, Margate, Kent Source: British Geological Survey, National Geoscience Information Service Reference: 130927 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: Margate Chalk Member Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	E8SE (E)	926	4	635353 167067
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Mining Instability Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	E3SE (SE)	0	-	634500 166500
	Man-Made Mining Cavities Easting: 634700 Northing: 166300 Distance: 426 Quadrant Reference: E3 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Possible Crown Hole Collapses Commodity: Unknown Solid Geology Detail: Chalk Group Superficial Geology: Head Brickearth Detail:	E3SE (SE)	426	5	634700 166300
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	E6SE (SE)	0	4	634085 167074
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	0	4	635000 167074
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	E7SE (E)	69	4	634444 167166
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	232	4	635000 166988

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E6SE (SW)	0	4	633977 166906
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E6SE (SW)	0	4	634000 167035
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(S)	0	4	634258 166170
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E1SW (SW)	0	4	632997 166332
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E6SE (SE)	0	4	634085 167074
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	0	4	635000 167074
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E3SE (SE)	50	4	634722 166257
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E7SE (E)	109	4	634470 167123
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E6SE (SE)	0	4	634085 167074
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	0	4	635000 167074
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	E7SW (NE)	0	4	634138 167105
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E6SE (SE)	0	4	634085 167074
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E8NW (NE)	0	4	635020 167526
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E3SE (SE)	50	4	634722 166257
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E7SE (E)	69	4	634444 167166
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E6NE (N)	156	4	634015 167380
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E3SW (SE)	168	4	634401 166390
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	232	4	635000 166988
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E7NW (N)	237	4	634114 167455
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E6SE (SW)	0	4	633977 166906
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E6SE (SW)	0	4	634000 167035

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(S)	0	4	634258 166170
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E1SW (SW)	0	4	632997 166332
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E6SE (SE)	0	4	634085 167074
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	0	4	635000 167074
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E3SE (SE)	50	4	634722 166257
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E6SE (SE)	0	4	634085 167074
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	0	4	635000 167074
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E7SE (E)	109	4	634470 167123
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E6SE (SW)	0	4	634000 167035
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E1SW (SW)	0	4	632997 166332
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E6SE (SE)	0	4	634085 167074
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	0	4	635000 167074
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(S)	0	4	634258 166170
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E6SE (SW)	0	4	633977 166906
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E3SE (SE)	50	4	634722 166257
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	(SW)	0	4	633655 166174
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	E6SE (SE)	0	4	634085 167074
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	0	4	635005 167074
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	E2NE (SW)	0	4	633780 166749

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	E2SE (S)	0	4	634030 166524
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	(SW)	0	4	633655 166174
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	E6SE (SE)	0	4	634085 167074
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	0	4	635005 167074
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	E2NE (SW)	0	4	633780 166749
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	E2SE (S)	0	4	634030 166524

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Contemporary Trade Directory Entries Name: Manston Auto Trading Centre Ltd Location: Manston Road, Manston, Ramsgate, Kent, CT12 5BH Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	E3SW (S)	0	-	634160 166308
25	Contemporary Trade Directory Entries Name: Select First Location: Manston Road, Manston, Ramsgate, Kent, CT12 5BH Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	E3SW (S)	0	-	634160 166308
26	Contemporary Trade Directory Entries Name: Kent International Airport Location: Manston, Ramsgate, Kent, CT12 5BL Classification: Airports Status: Inactive Positional Accuracy: Automatically positioned to the address	E2SE (S)	0	-	633983 166224
26	Contemporary Trade Directory Entries Name: Manston Airport Location: Manston, Ramsgate, Kent, CT12 5BL Classification: Airports Status: Inactive Positional Accuracy: Automatically positioned to the address	E2SE (S)	0	-	633983 166224
27	Contemporary Trade Directory Entries Name: A Piner Transport Location: 1, Manston Court Cottages, Manston Court Road, Manston, RAMSGATE, Kent, CT12 5AU Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	E3NW (SE)	23	-	634324 166696
28	Contemporary Trade Directory Entries Name: Drome Garage Location: Manston Road, Margate, Kent, CT9 4LT Classification: Mot Testing Centres Status: Active Positional Accuracy: Automatically positioned to the address	E6SE (NW)	40	-	633964 167124
29	Contemporary Trade Directory Entries Name: Hometune Motoring Services Location: Glenstone, Manston Road, Margate, Kent, CT9 4LT Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	E6SE (W)	63	-	633905 167042
30	Contemporary Trade Directory Entries Name: Charles River Location: Manston Road, Margate, Kent, CT9 4LT Classification: Medical Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	E6SE (W)	105	-	633813 166986
31	Contemporary Trade Directory Entries Name: Martin'S Motor Co & Commercial Services Ltd Location: Fleete Court Farm, Preston Road, Manston, Ramsgate, Kent, CT12 5AP Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	E7SE (E)	274	-	634603 167201
32	Contemporary Trade Directory Entries Name: P A Terry Location: Unit 2, Preston Road, Manston, Ramsgate, Kent, CT12 5BA Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	E3SE (SE)	432	-	634720 166229
33	Contemporary Trade Directory Entries Name: John Roberts Location: Unit C Preston Rd, Manston, Ramsgate, Kent, CT12 5BA Classification: Fishing & Angling Equipment - Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	E4SW (SE)	475	-	634800 166200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Contemporary Trade Directory Entries Name: Malthouse Marine Location: Unit 4, Preston Rd, Manston, Ramsgate, Kent, CT12 5BA Classification: Boatbuilders & Repairers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	E4SW (SE)	476	-	634768 166207
33	Contemporary Trade Directory Entries Name: Horsley Joinery Location: Manston Village Hall, Preston Road, Manston, Ramsgate, Kent, CT12 5BA Classification: Joinery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	E4SW (SE)	494	-	634797 166220
33	Contemporary Trade Directory Entries Name: M J Clements Location: Preston Road, Manston, Ramsgate, Kent, CT12 5BA Classification: Antiques - Repairing & Restoring Status: Inactive Positional Accuracy: Automatically positioned to the address	E4SW (SE)	494	-	634797 166220
34	Contemporary Trade Directory Entries Name: Mccarthy J Builders Ltd Location: Manston Road, MARGATE, Kent, CT9 4LS Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	E11SW (N)	563	-	634121 167785
34	Contemporary Trade Directory Entries Name: J Mccarthy Building Supplies Ltd Location: Manston Road, Margate, Kent, CT9 4LS Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	E11SW (N)	563	-	634121 167785
35	Contemporary Trade Directory Entries Name: John Roberts Location: Preston Rd, Manston, Ramsgate, Kent, CT12 5BA Classification: Fishing & Angling Equipment - Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	E4SW (SE)	565	-	634834 166338
35	Contemporary Trade Directory Entries Name: Springfield Electronics Location: 12, Preston Road, Manston, Ramsgate, Kent, CT12 5AP Classification: Electronic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	E4SW (SE)	573	-	634850 166305
36	Contemporary Trade Directory Entries Name: Attwell'S Skips Location: The Bungalow, Queensdown Road, Woodchurch, Birchington, Kent, CT7 0HG Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	E5NE (W)	642	-	633180 167221
36	Contemporary Trade Directory Entries Name: Attwell Skips & Bottled Gas Location: The Bungalow, Queensdown Road, Woodchurch, Birchington, Kent, CT7 0HG Classification: Gas Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	E5NE (W)	642	-	633180 167221
37	Contemporary Trade Directory Entries Name: Canterbury Chem-Dry Location: Therfields, Spratling Street, Manston, Ramsgate, Kent, CT12 5AW Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	E4SW (SE)	654	-	634898 166425
38	Contemporary Trade Directory Entries Name: Oakleaf Location: Preston Court, Preston Road, Manston, Ramsgate, Kent, CT12 5AR Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	E4SW (SE)	663	-	634939 166505
39	Contemporary Trade Directory Entries Name: Raineys Maids Ltd Location: Grove Lodge, Bramble Lane, Margate, Kent, CT9 4LR Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	E10NE (N)	836	-	634025 168063

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	Contemporary Trade Directory Entries Name: Tsm Motors Location: Coldswood Road, Ramsgate, Kent, CT12 5AJ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	E8SE (E)	967	-	635396 167025
41	Fuel Station Entries Name: Drome Garage Location: MANSTON ROAD, MARGATE, Kent, CT9 4LT Brand: Pace Premises Type: Petrol Station Status: Closed Positional Accuracy: Automatically positioned to the address	E6SE (NW)	40	-	633964 167124

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	Nitrate Vulnerable Zones Name: Not Supplied Description: Groundwater Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	E6SE (SE)	0	6	634085 167074

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Discharge Consents Environment Agency - Southern Region	January 2016	Quarterly
Enforcement and Prohibition Notices Environment Agency - Southern Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Southern Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Southern Region	January 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Southern Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Southern Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - Southern Region	March 2013	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	January 2016 January 2016	Quarterly Quarterly
Water Abstractions Environment Agency - Southern Region	January 2016	Quarterly
Water Industry Act Referrals Environment Agency - Southern Region	January 2016	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	January 2015	As notified
Source Protection Zones Environment Agency - Head Office	January 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2016	Quarterly
Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	March 2016	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	February 2016 February 2016	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - Kent & South London Area Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	January 2016 January 2016 January 2016	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Kent County Council - Waste Management Group Thanet District Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Kent County Council - Waste Management Group Thanet District Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	February 2016	Bi-Annually
Explosive Sites Health and Safety Executive	February 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Thanet District Council Kent County Council	February 2016 January 2016	Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Thanet District Council Kent County Council	February 2016 January 2016	Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2015	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2015	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2015	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Outstanding Natural Beauty Natural England	October 2015	Bi-Annually
Environmentally Sensitive Areas Natural England	October 2015	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	October 2015	Bi-Annually
Marine Nature Reserves Natural England	October 2015	Bi-Annually
National Nature Reserves Natural England	October 2015	Bi-Annually
National Parks Natural England	March 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	October 2015	Bi-Annually
Sites of Special Scientific Interest Natural England	October 2015	Bi-Annually
Special Areas of Conservation Natural England	October 2015	Bi-Annually
Special Protection Areas Natural England	October 2015	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 <p>British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Centre for Ecology and Hydrology	 <p>Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Thanet District Council - Environmental Health Department Council Offices, Cecil Street, Margate, Kent, CT9 1XZ	Telephone: 01843 577000 Fax: 01843 290906 Website: www.thanet.gov.uk
4	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
5	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
6	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
7	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
8	Kent County Council - Waste Management Group Block H, The Forstal, Beddow Way, Aylesford, Kent, ME20 7BT	Telephone: 01622 605976 Website: www.kent.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

- Chalk Pit, Clay Pit or Quarry
- Gravel Pit
- Sand Pit
- Disused Pit or Quarry
- Refuse or Slag Heap
- Lake, Loch or Pond
- Dunes
- Boulders
- Coniferous Trees
- Non-Coniferous Trees
- Orchard
- Scrub
- Coppice
- Bracken
- Heath
- Rough Grassland
- Marsh
- Reeds
- Saltings
- Building
- Glasshouse
- Sloping Masonry
- Pylon
- Electricity Transmission Line
- Pole
- Cutting
- Embankment
- Standard Gauge Multiple Track
- Standard Gauge Single Track
- Siding, Tramway or Mineral Line
- Narrow Gauge
- Geographical County
- Administrative County, County Borough or County of City
- Municipal Borough, Urban or Rural District, Burgh or District Council
- Borough, Burgh or County Constituency
- Civil Parish
- BP, BS** Boundary Post or Stone
- Ch** Church
- CH** Club House
- F E Sta** Fire Engine Station
- FB** Foot Bridge
- Fn** Fountain
- GP** Guide Post
- MP** Mile Post
- MS** Mile Stone
- Pol Sta** Police Station
- PO** Post Office
- PC** Public Convenience
- PH** Public House
- SB** Signal Box
- Spr** Spring
- TCB** Telephone Call Box
- TCP** Telephone Call Post
- W** Well

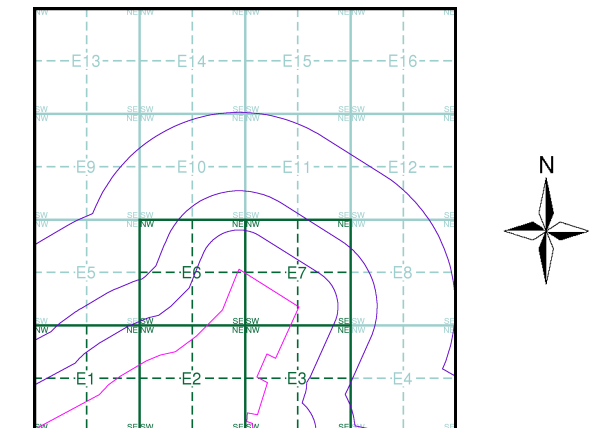
1:10,000 Raster Mapping

- Gravel Pit
- Rock
- Boulders
- Shingle
- Sand
- Slopes
- Refuse tip or slag heap
- Rock (scattered)
- Boulders (scattered)
- Mud
- Sand Pit
- Top of cliff
- General detail
- Overhead detail
- Multi-track railway
- Single track railway
- County boundary (England only)
- District, Unitary, Metropolitan, London Borough boundary
- Civil, parish or community boundary
- Constituency boundary
- Area of wooded vegetation
- Non-coniferous trees
- Coniferous trees
- Positioned tree
- Coppice or Osiers
- Heath
- Marsh, Salt Marsh or Reeds
- Flow arrows
- Mean high water (springs)
- Mean low water (springs)
- Electricity transmission line (with poles)
- Triangulation station
- Pylon, flare stack or lighting tower
- Glasshouse
- Important Building
- General Building

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:10,560	1877	2
Kent	1:10,560	1899	3
Kent	1:10,560	1908	4
Kent	1:10,560	1908	5
Kent	1:10,560	1931	6
Kent	1:10,560	1931	7
Kent	1:10,560	1938	8
Historical Aerial Photography	1:10,560	1945 - 1947	9
Historical Aerial Photography	1:10,560	1947 - 1948	10
Kent	1:10,560	1948	11
Ordnance Survey Plan	1:10,000	1961 - 1962	12
Ordnance Survey Plan	1:10,000	1968	13
Ordnance Survey Plan	1:10,000	1973 - 1975	14
Ordnance Survey Plan	1:10,000	1979	15
Ordnance Survey Plan	1:10,000	1991 - 1995	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2016	18

Historical Map - Slice E



Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL

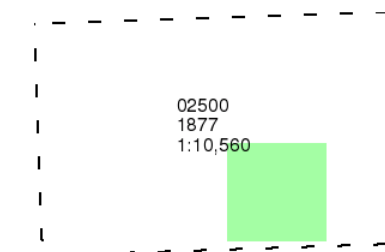
Kent

Published 1877

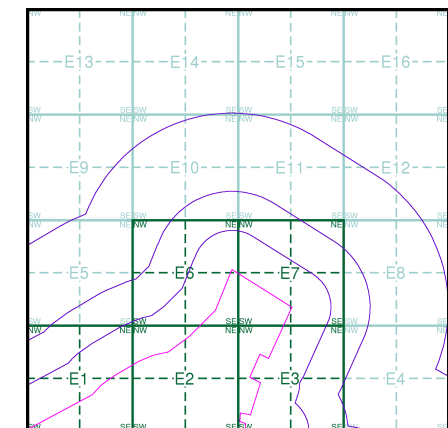
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice E

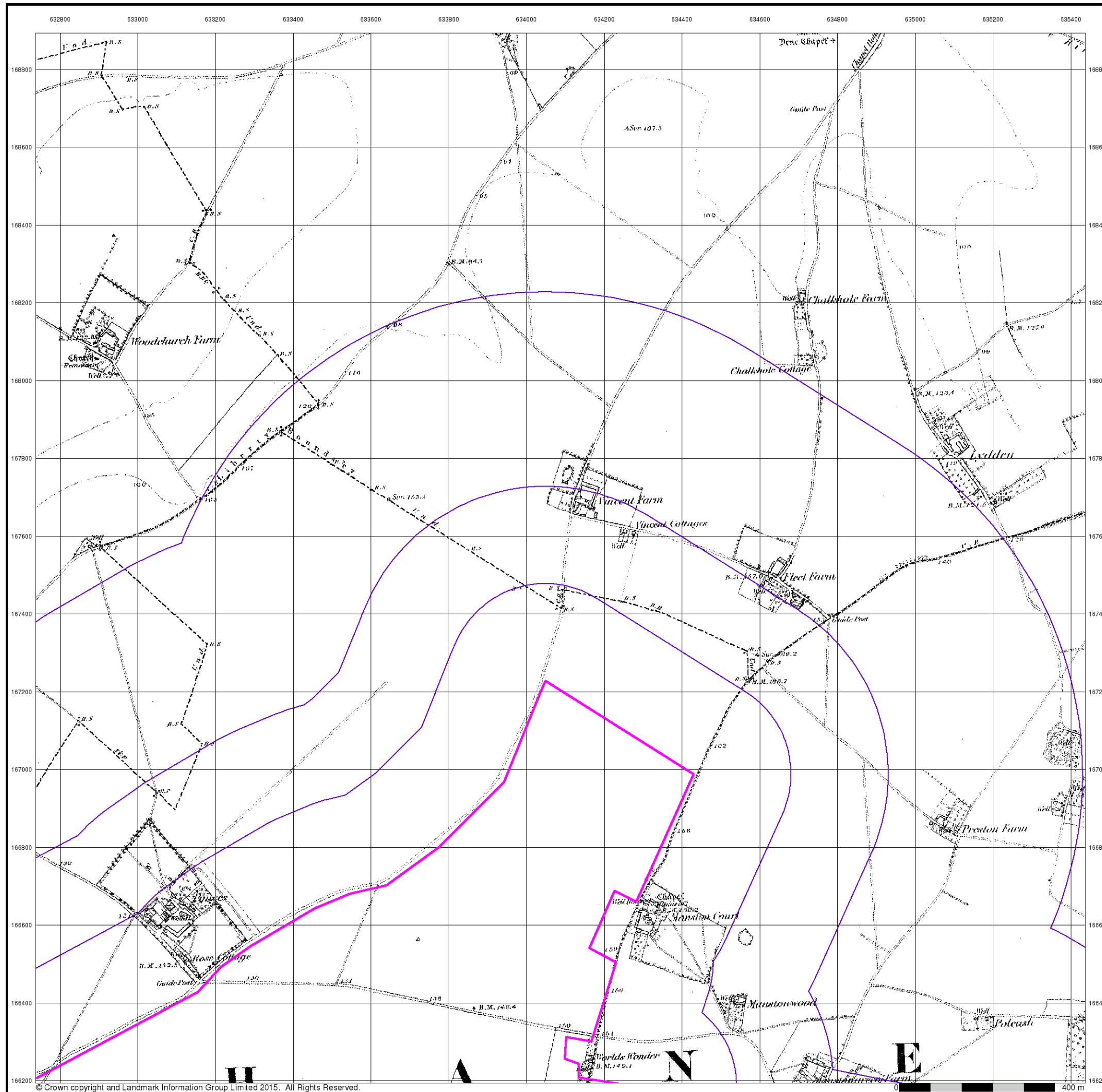


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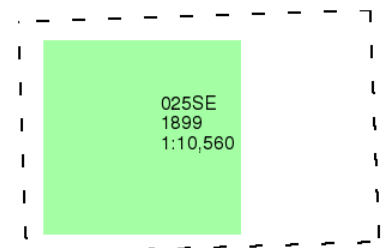
Kent

Published 1899

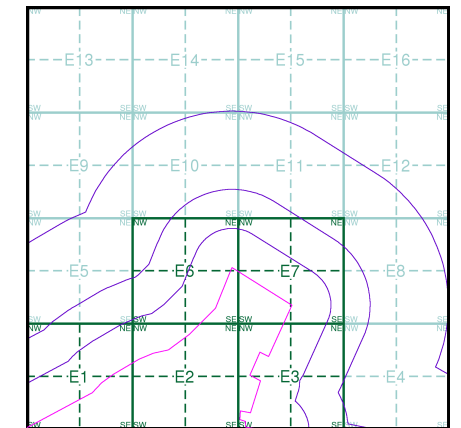
Source map scale - 1:10,560

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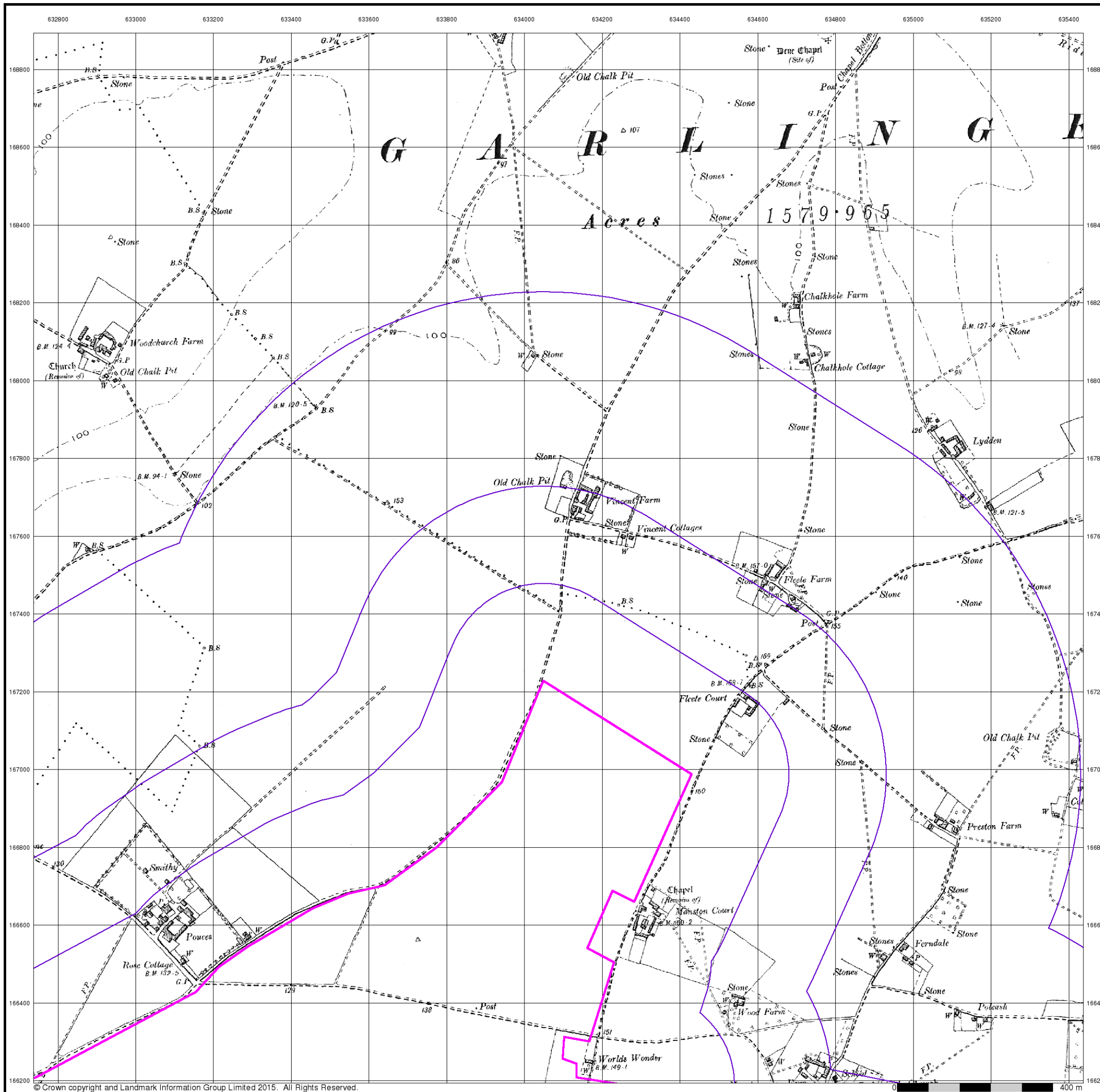


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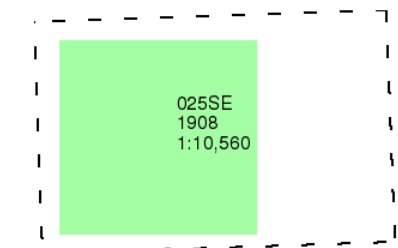
Kent

Published 1908

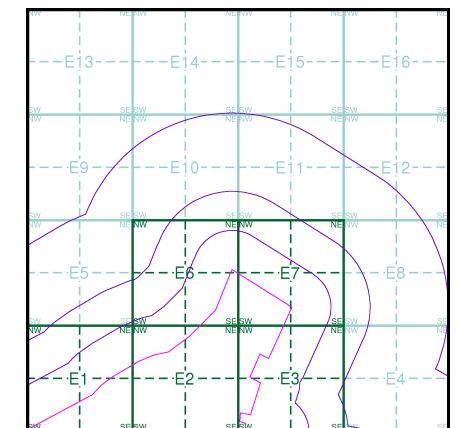
Source map scale - 1:10,560

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

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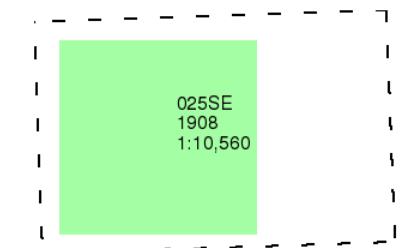
Kent

Published 1908

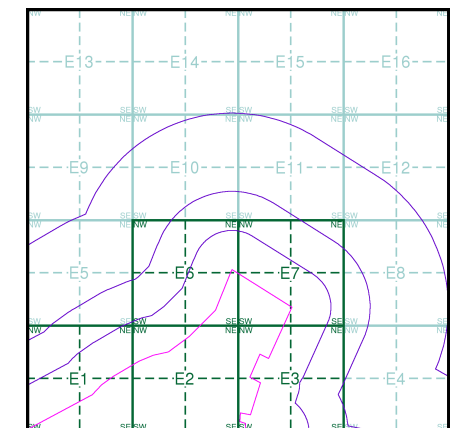
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Site Details

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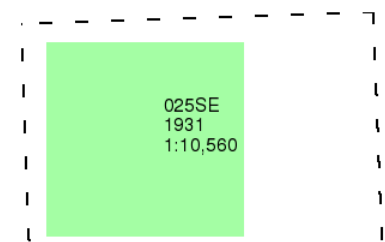
Kent

Published 1931

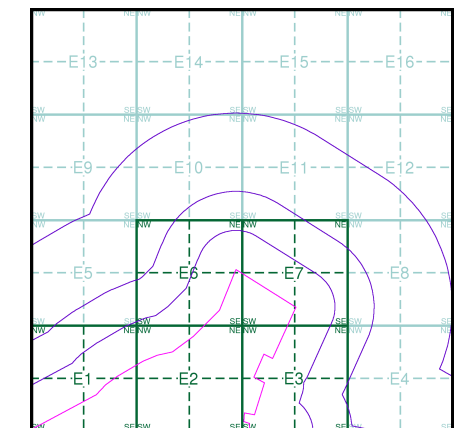
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Map Name(s) and Date(s)



Historical Map - Slice E

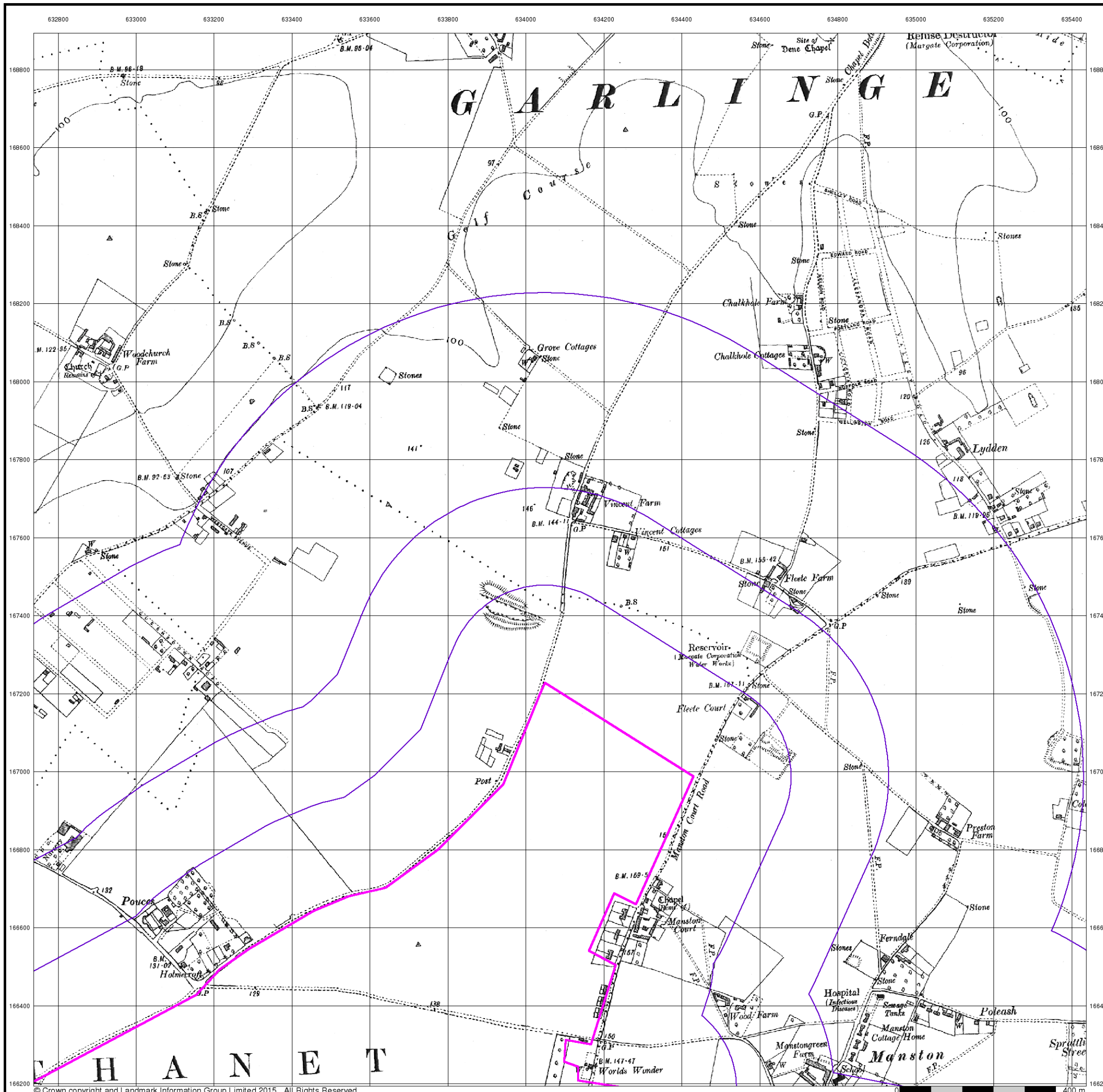


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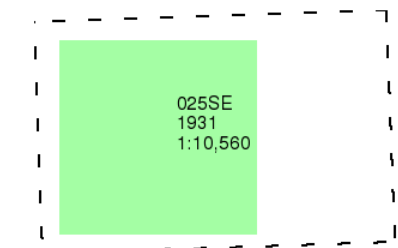
Kent

Published 1931

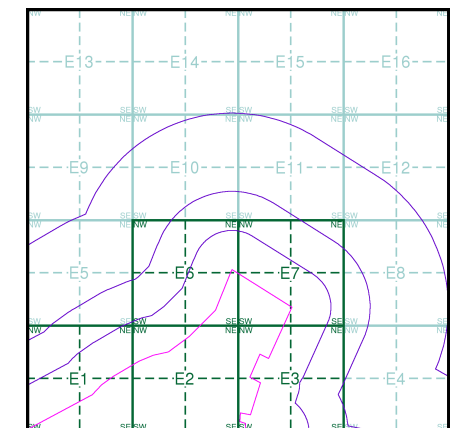
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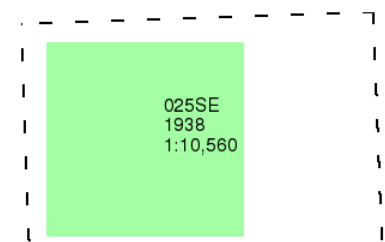
Kent

Published 1938

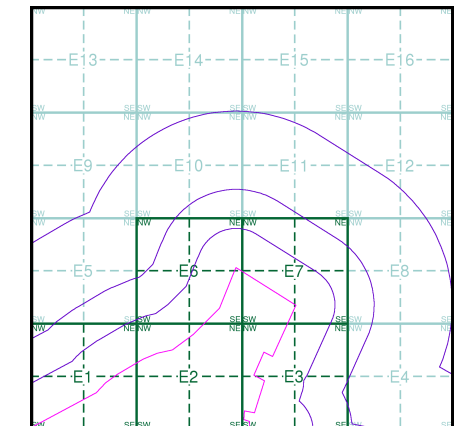
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Map Name(s) and Date(s)



Historical Map - Slice E

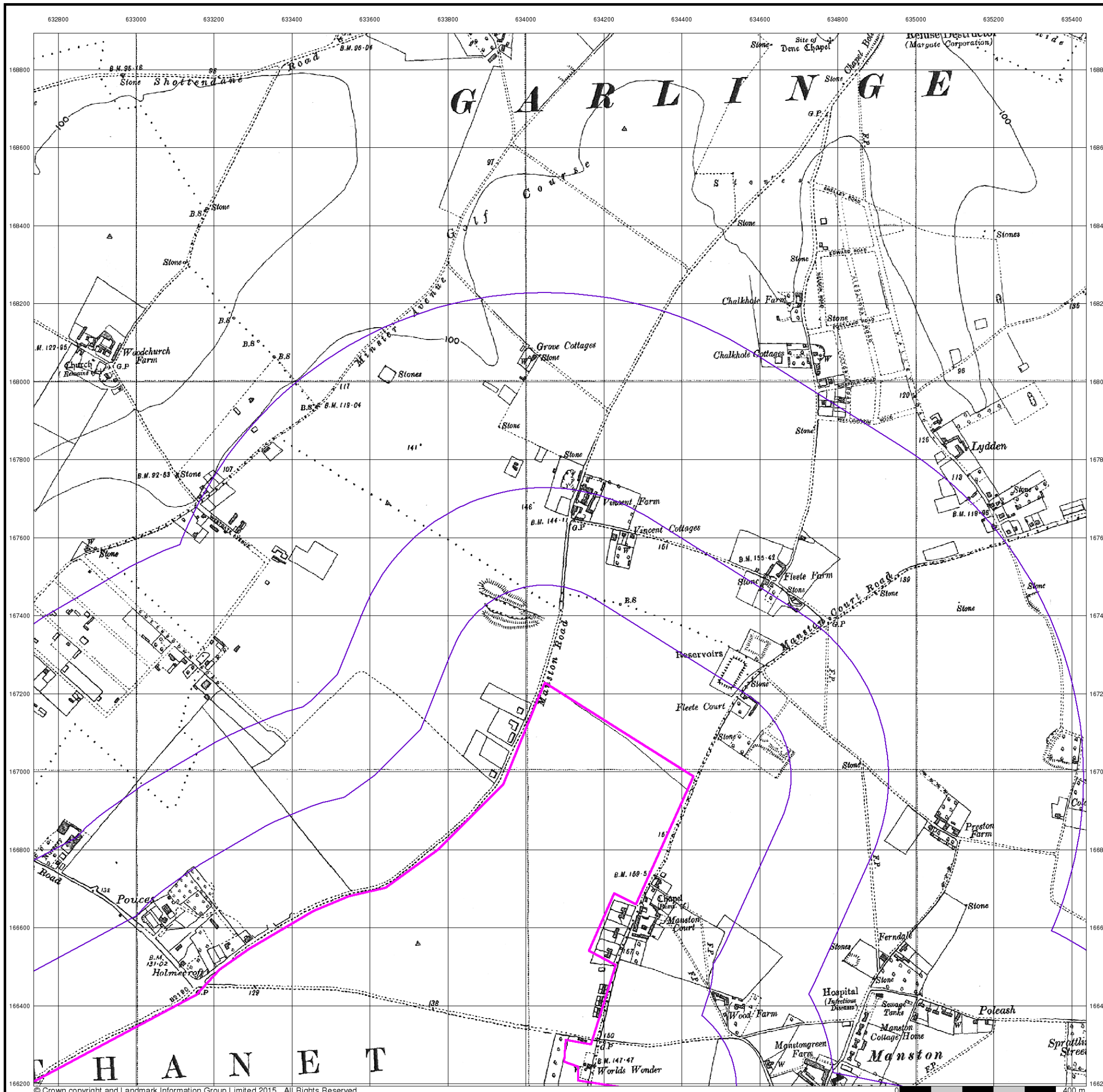


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Site Details

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Historical Aerial Photography

Published 1945 - 1947

Source map scale - 1:10,560

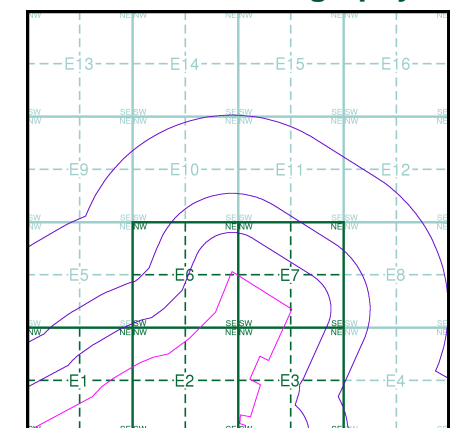
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)

TR36NW 1945 1:10,560	TR36NE 1947 1:10,560
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Historical Aerial Photography - Slice E



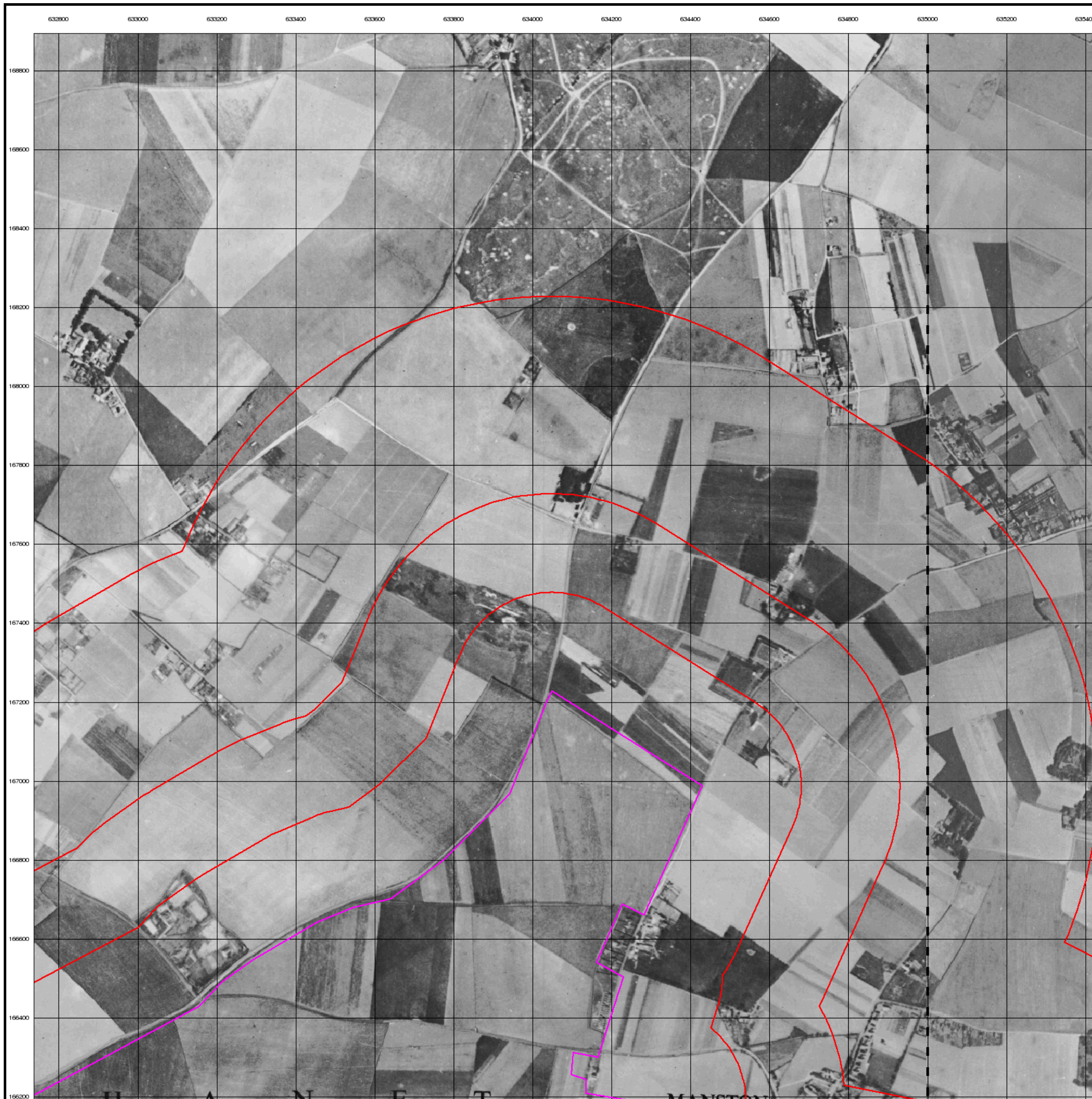
LIBRARY
HSILIRB

Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Historical Aerial Photography

Published 1947 - 1948

Source map scale - 1:10,560

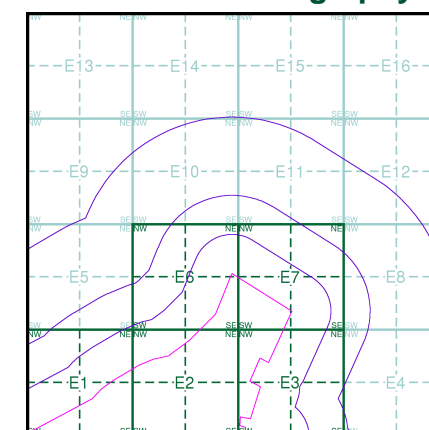
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)

TR36NW 1948 1:10,560	TR36NE 1947 1:10,560
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Historical Aerial Photography - Slice E



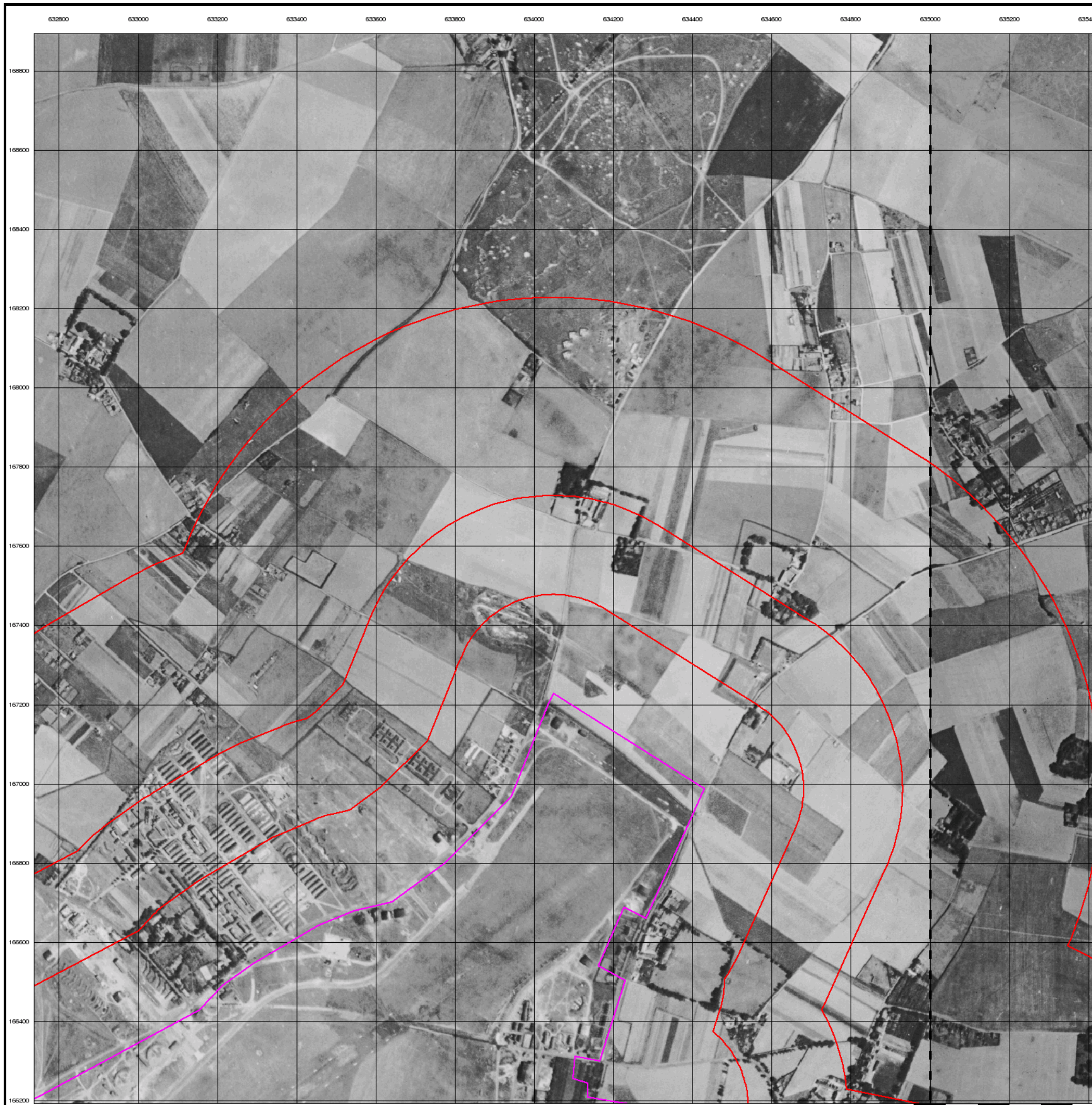
LIBRARY
HS111RB

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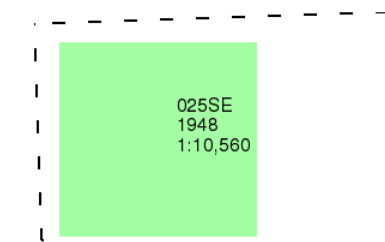
Kent

Published 1948

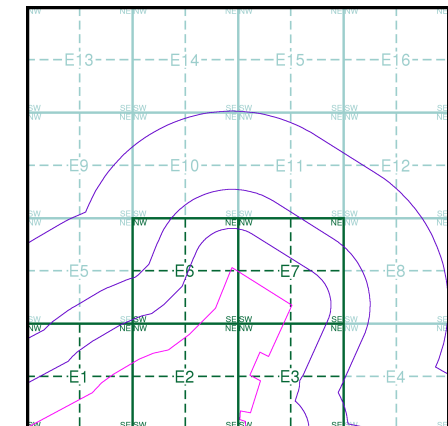
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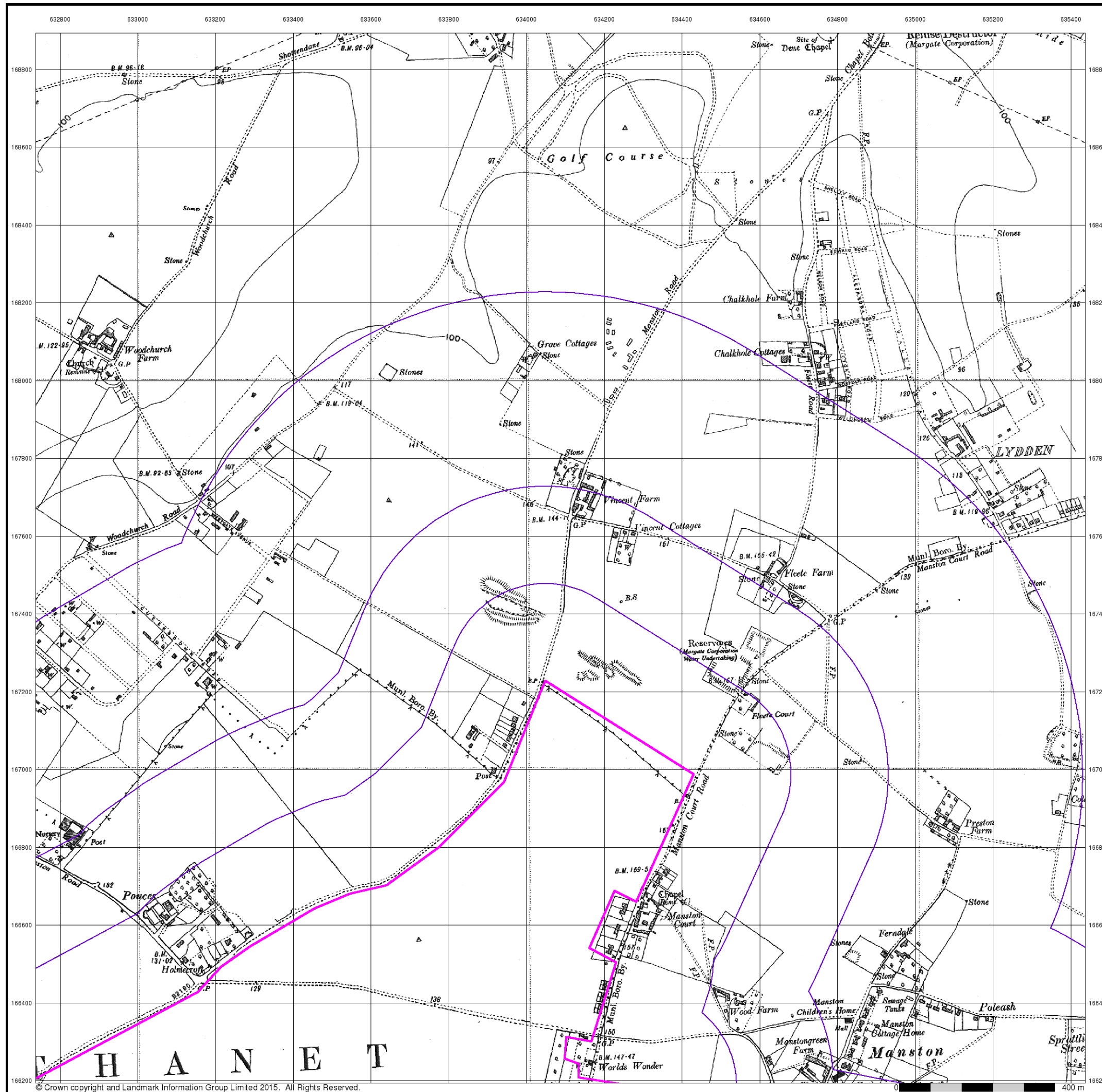


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Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Ordnance Survey Plan

Published 1961 - 1962

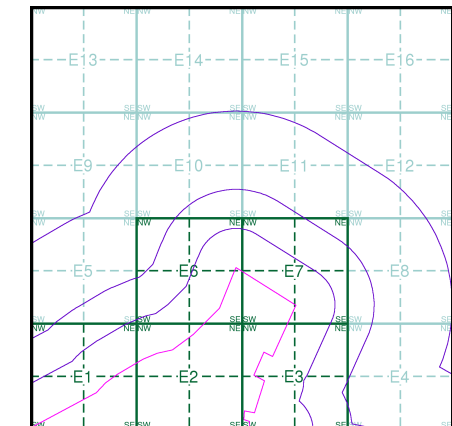
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

TR36NW 1961 1:10,560	TR36NE 1962 1:10,560
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Historical Map - Slice E

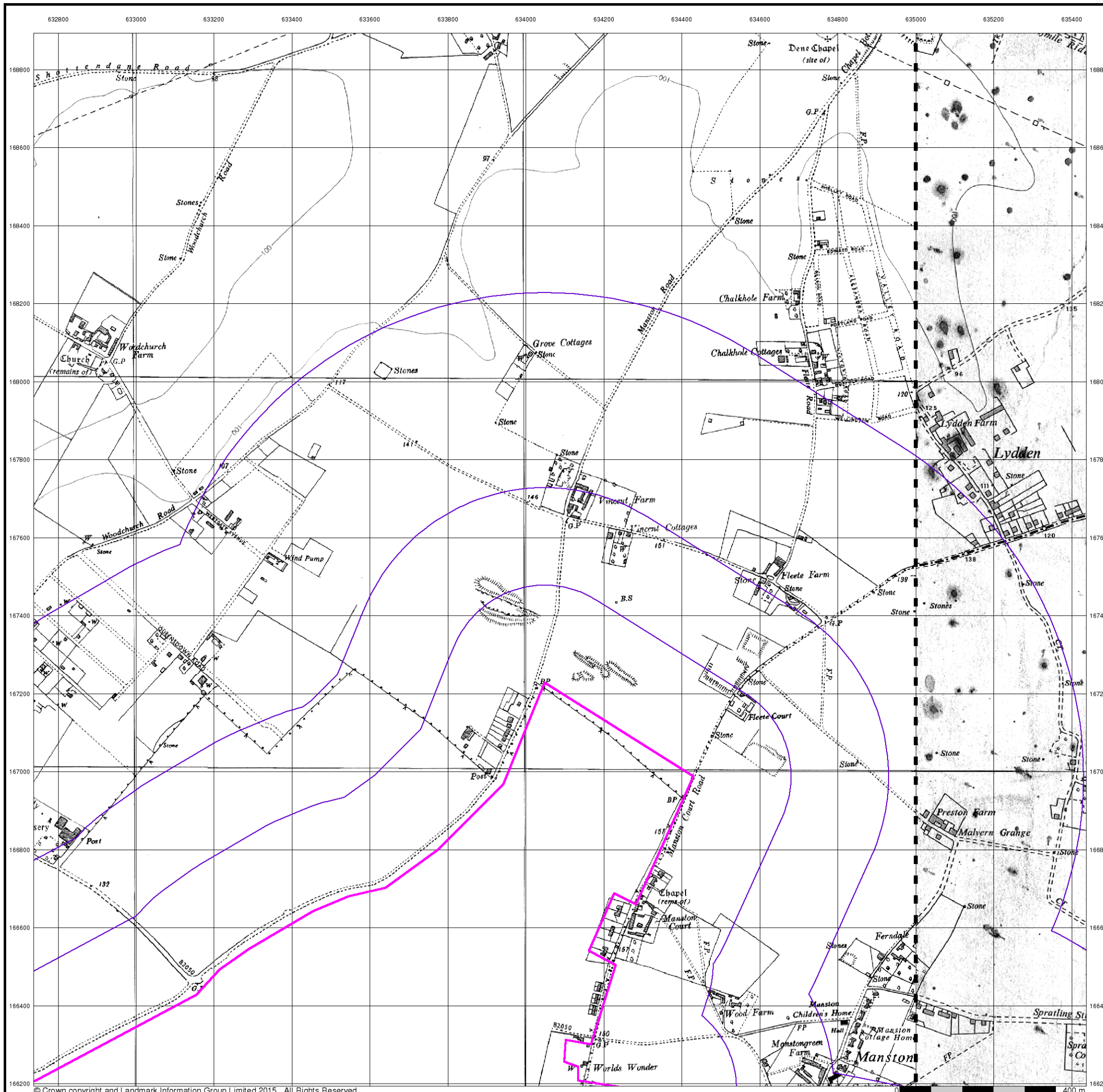


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



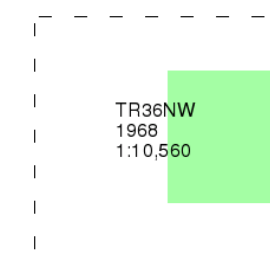
Ordnance Survey Plan

Published 1968

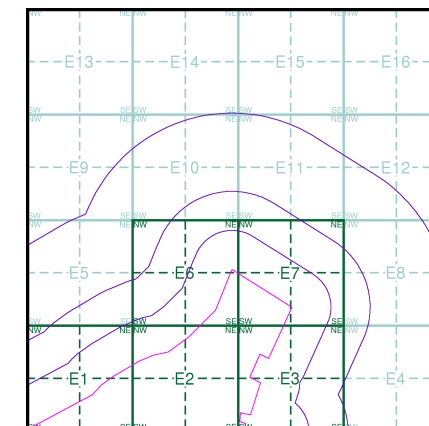
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice E

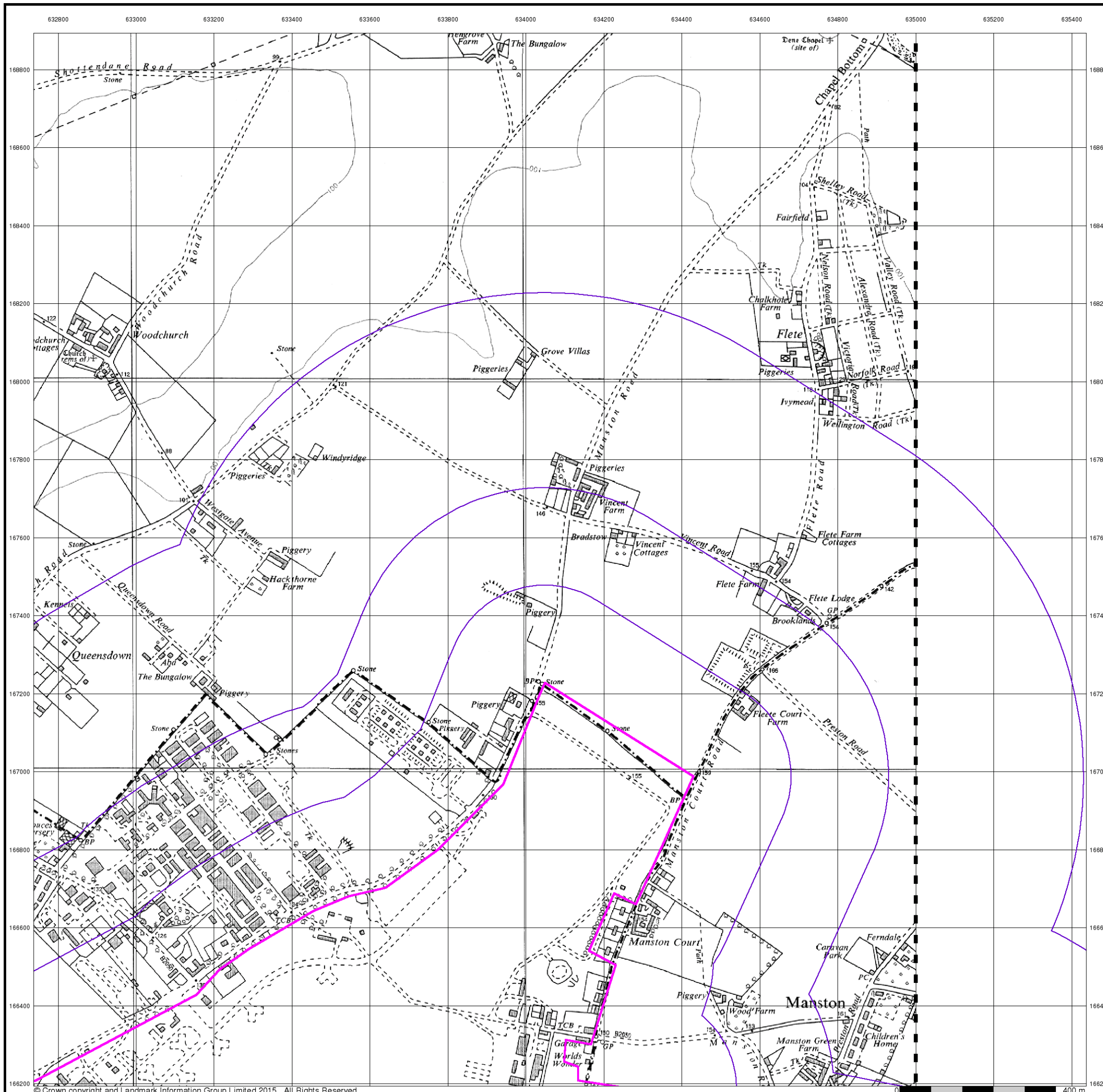


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



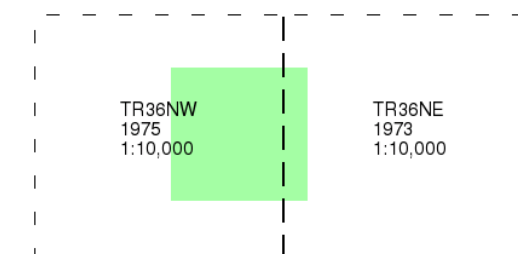
Ordnance Survey Plan

Published 1973 - 1975

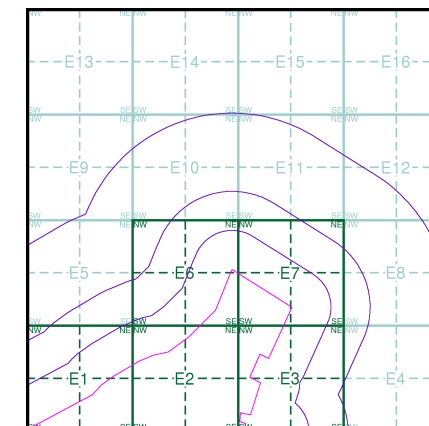
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice E

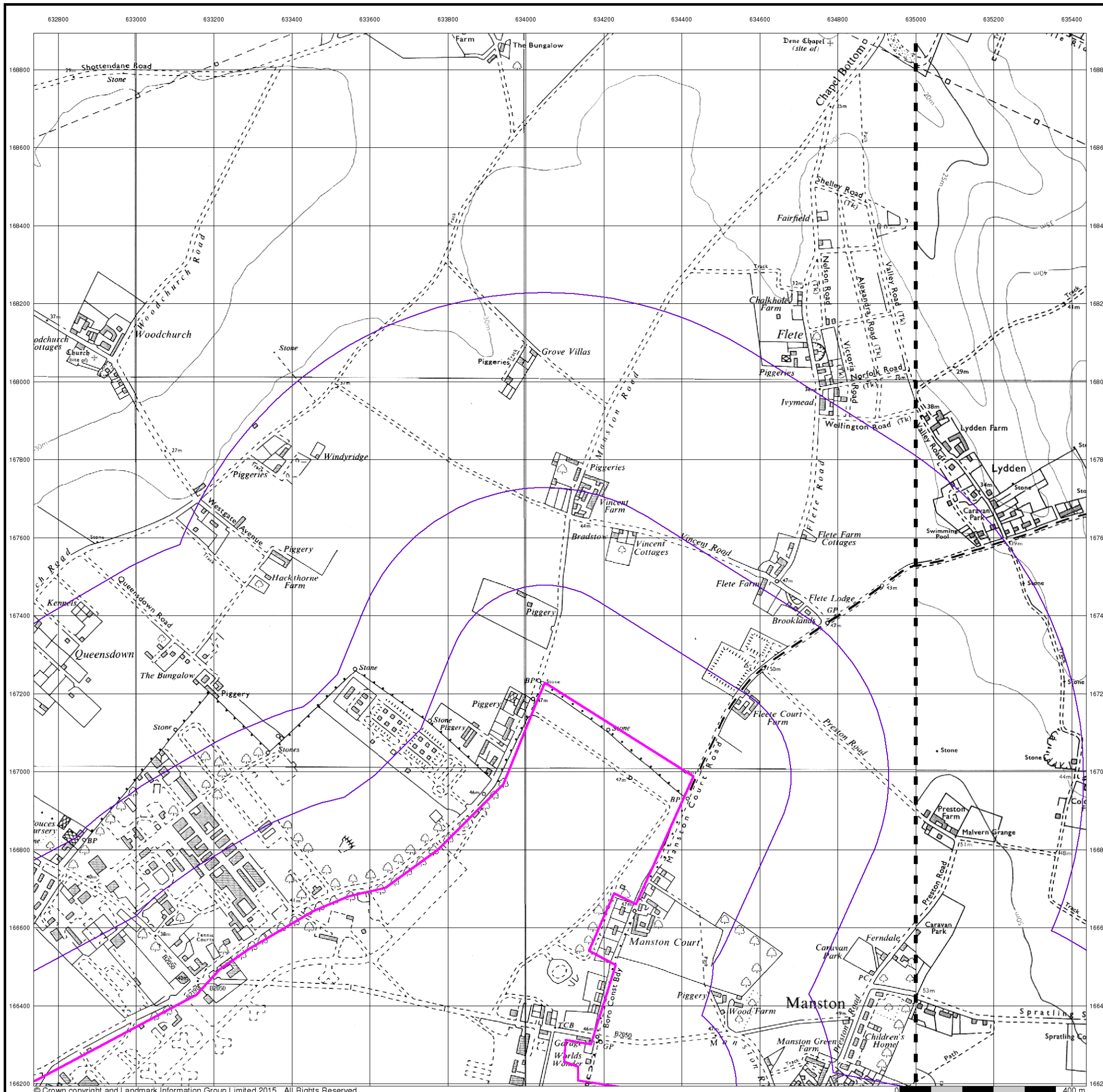


Order Details

Order Number: 82787389_1_1
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 Slice: E
 Site Area (Ha): 306.39
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



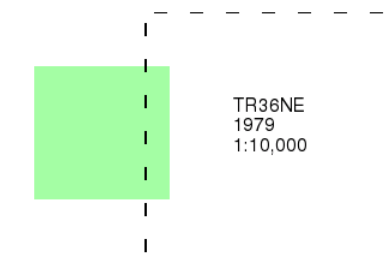
Ordnance Survey Plan

Published 1979

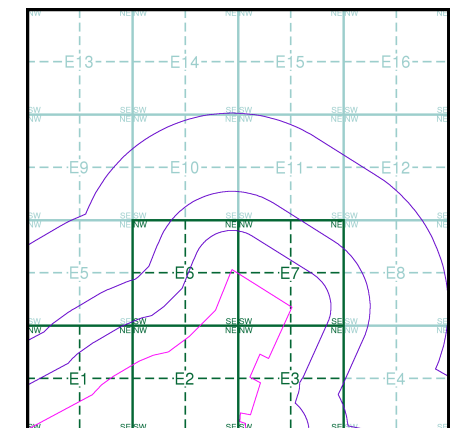
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice E

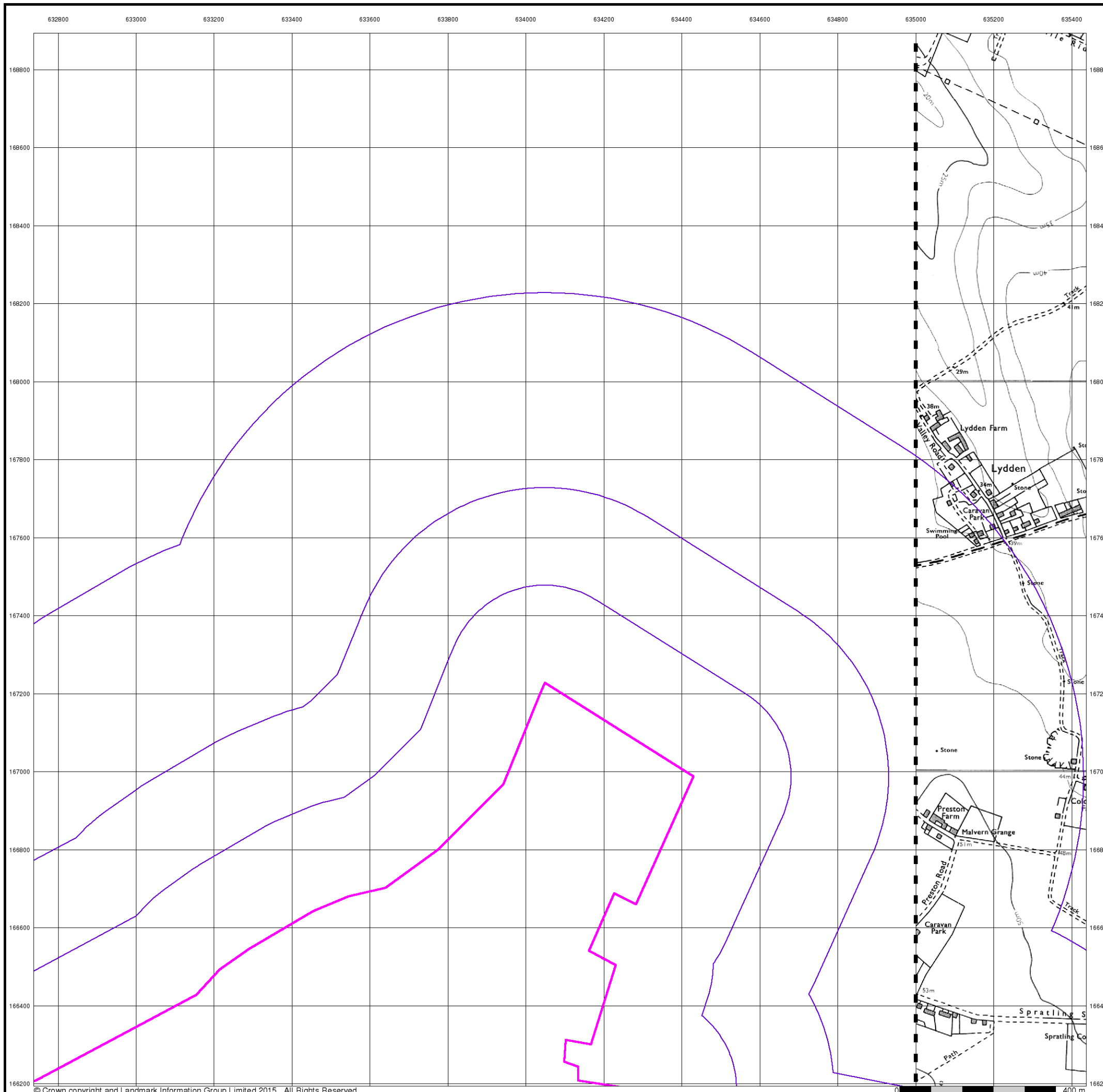


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



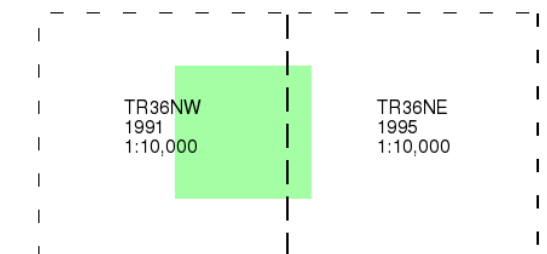
Ordnance Survey Plan

Published 1991 - 1995

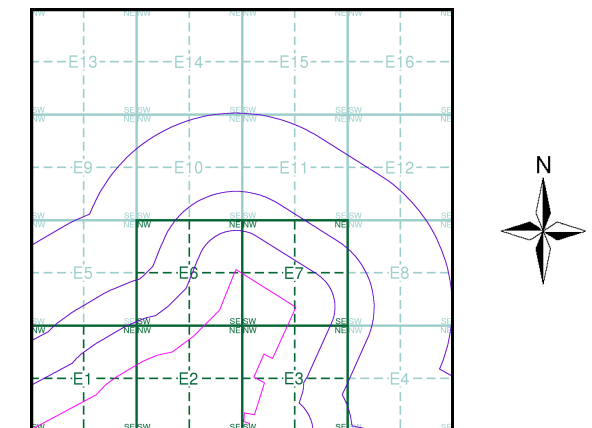
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice E

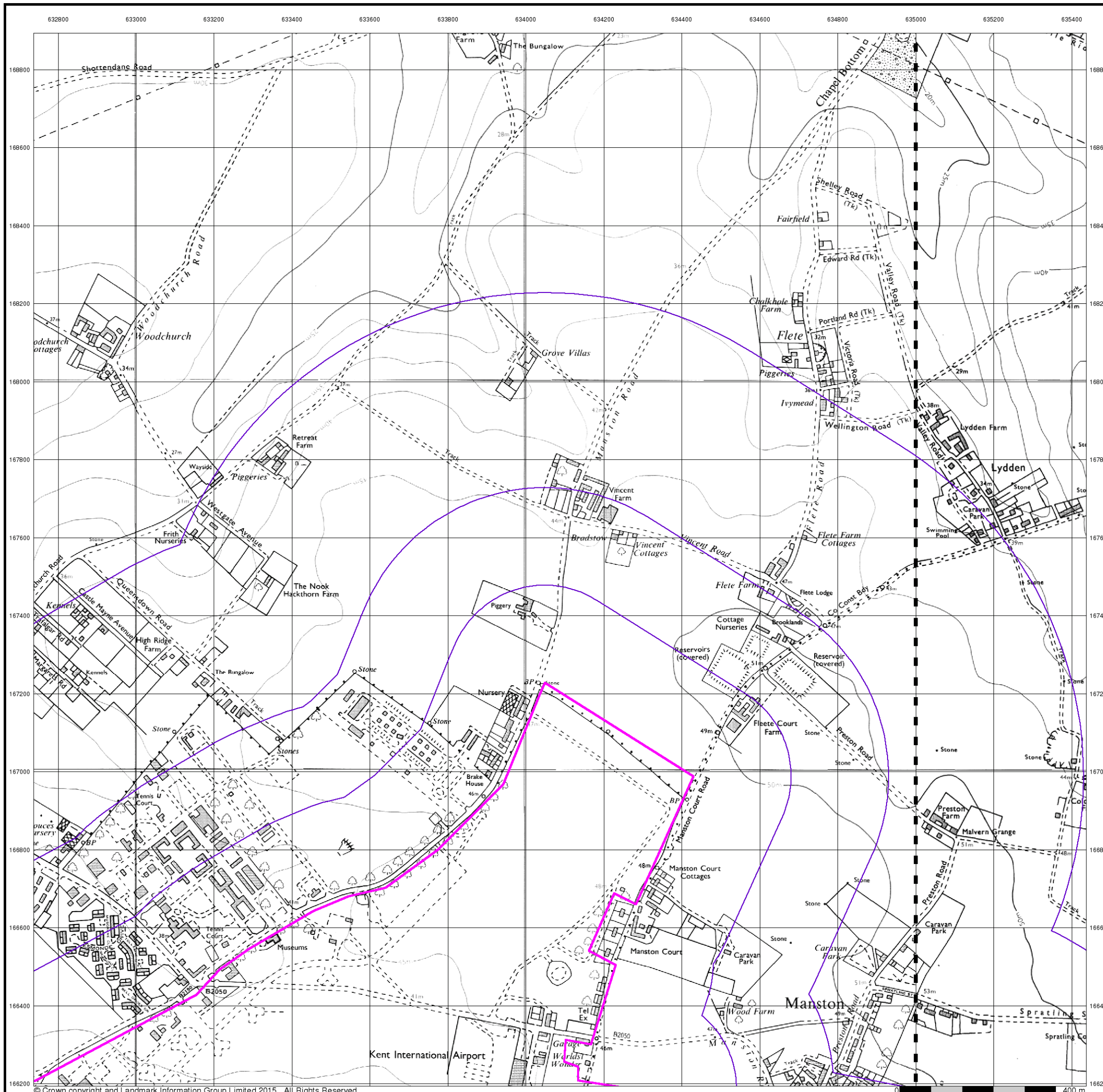


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



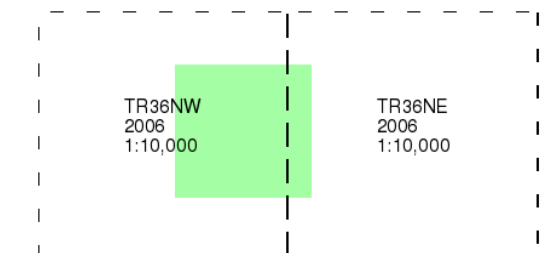
10k Raster Mapping

Published 2006

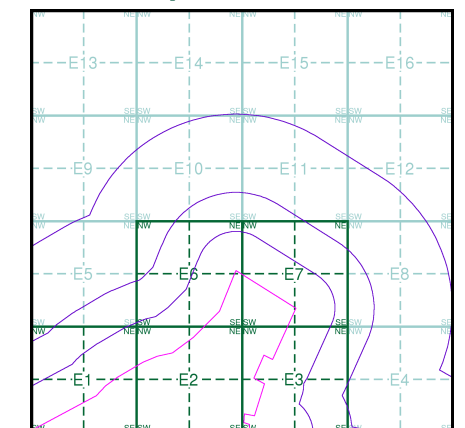
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice E

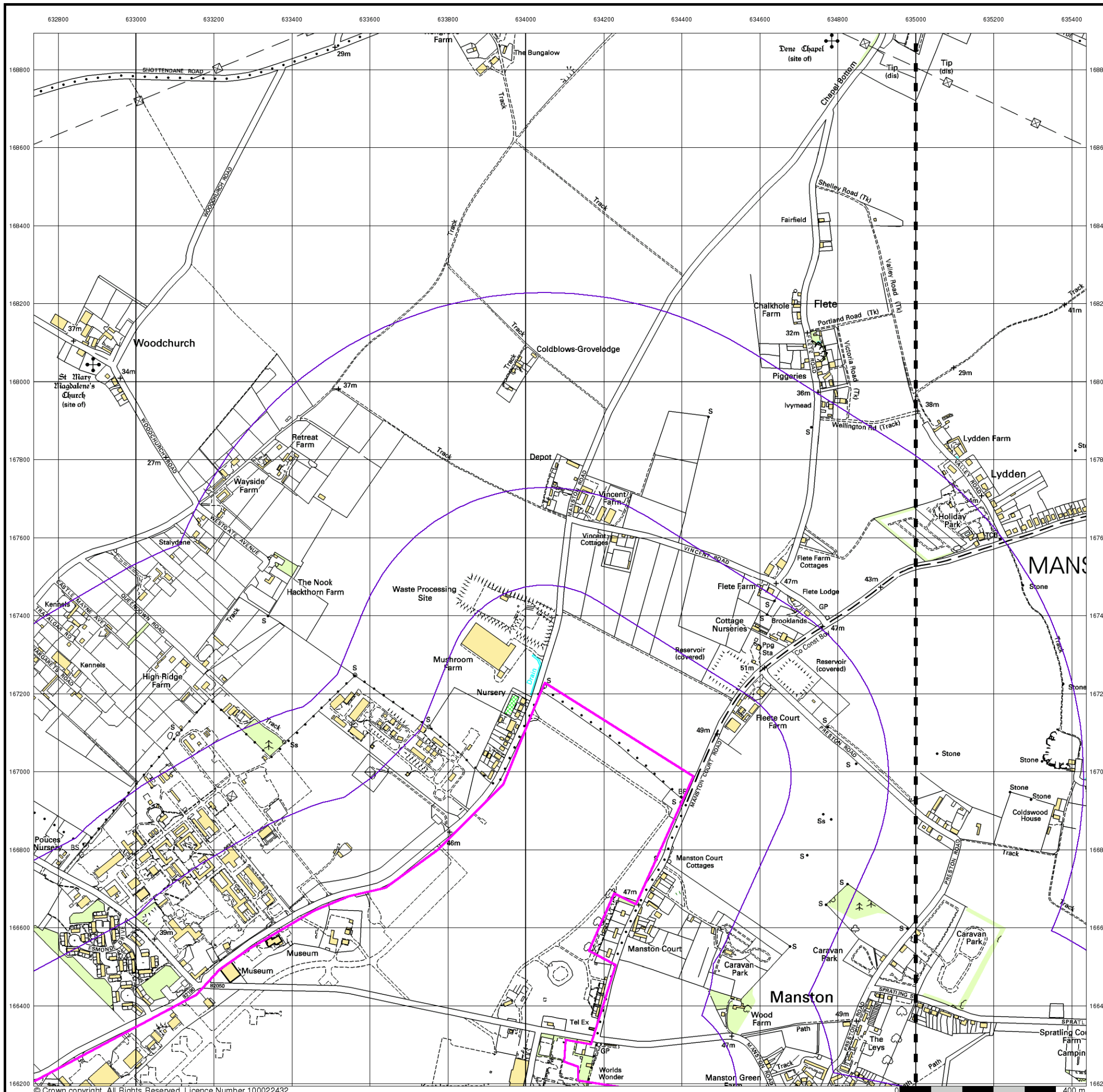


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

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 Manston, RAMSGATE, Kent, CT12 5BL



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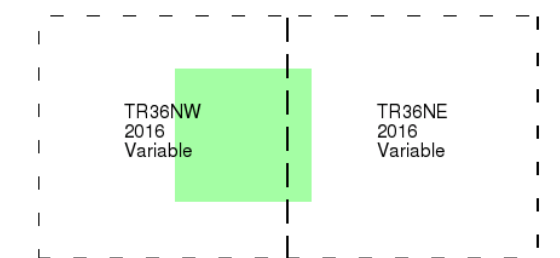
VectorMap Local

Published 2016

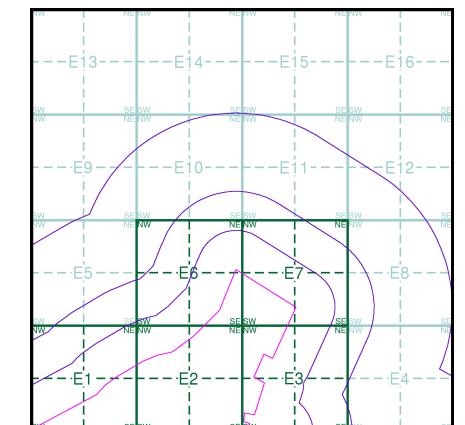
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice E

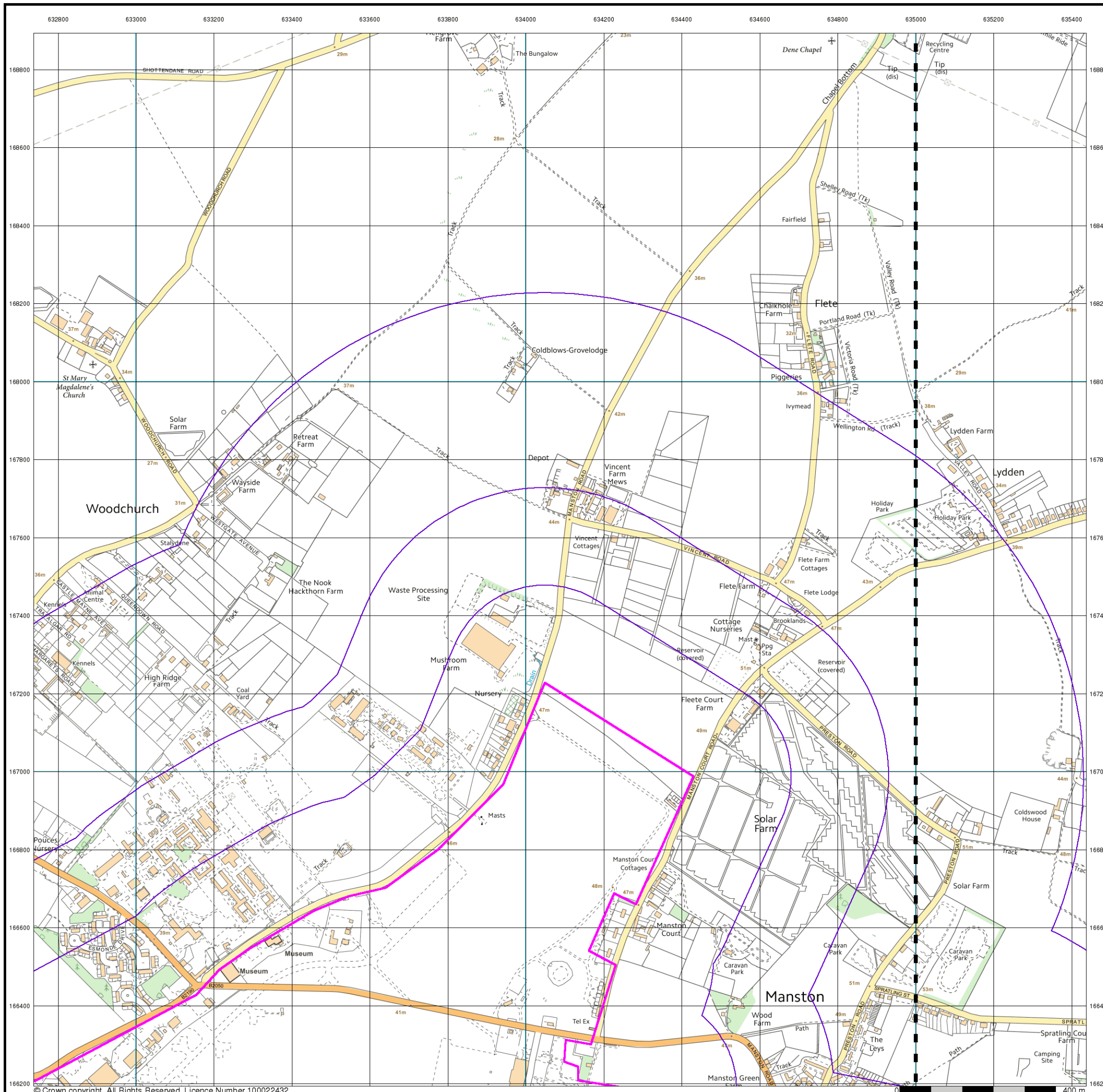


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

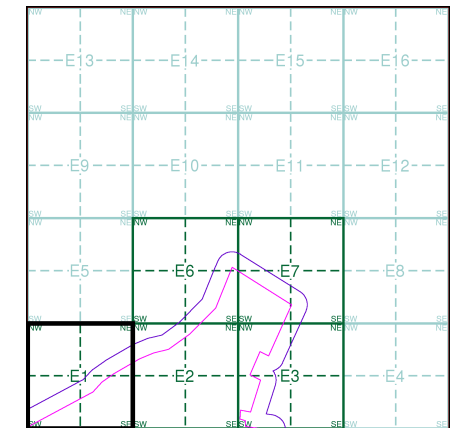
Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Segment E1

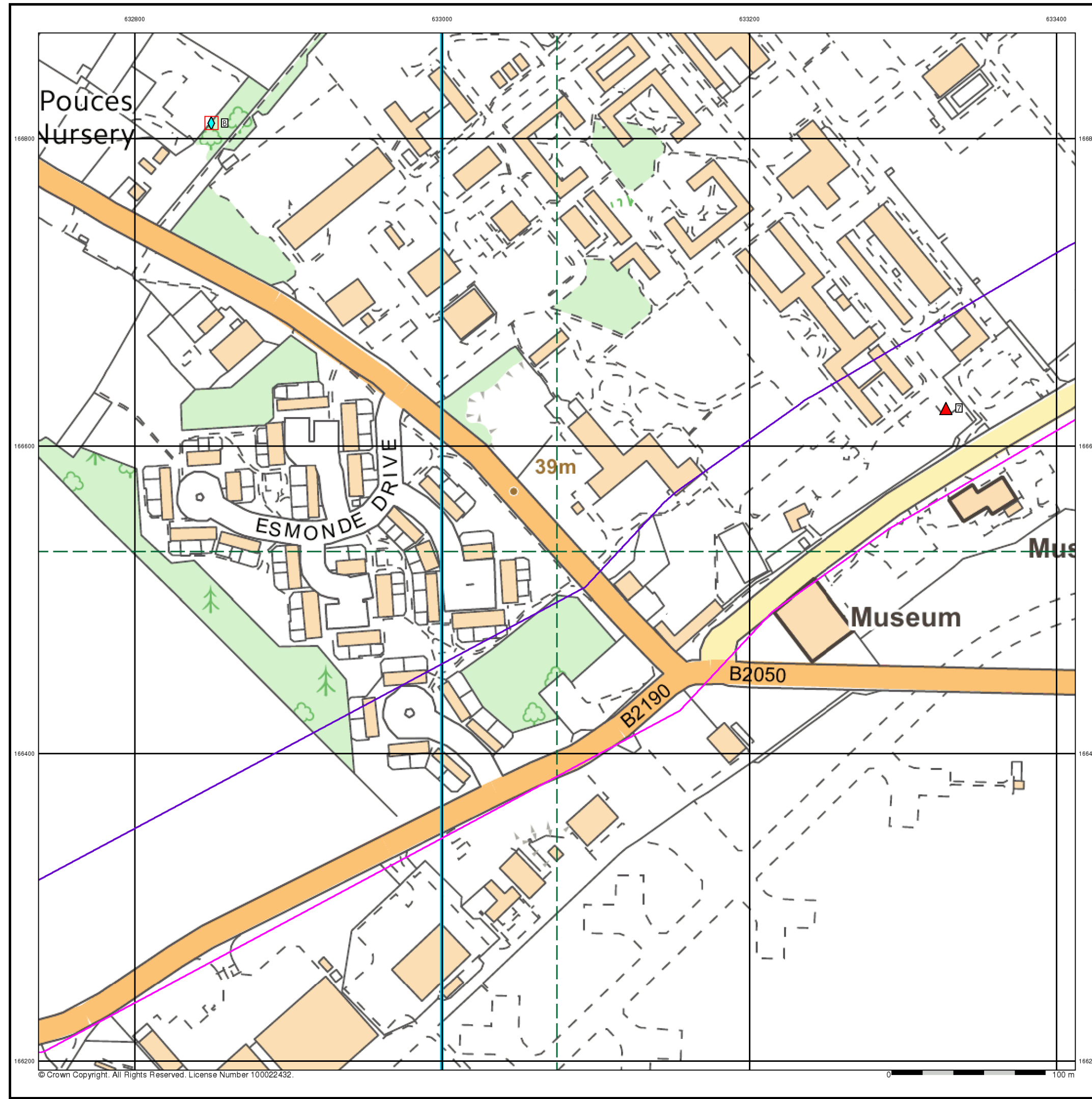


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



General

- ⬡ Specified Site
- ⬡ Specified Buffer(s)
- X Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- ⬡ Contaminated Land Register Entry or Notice
- ◆ Enforcement or Prohibition Notice
- ▲ Integrated Pollution Control
- Integrated Pollution Prevention Control
- ⬡ Local Authority Integrated Pollution Prevention and Control
- ▲ Local Authority Pollution Prevention and Control
- ▼ Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- ▼ Prosecution Relating to Authorised Processes
- ◆ Prosecution Relating to Controlled Waters
- ▲ Registered Radioactive Substance
- + River Quality Sampling Point
- ◆ Substantiated Pollution Incident Register
- ◆ Water Abstraction
- ◆ Water Industry Act Referral

Waste

- ▼ BGS Recorded Landfill Site (Location)
- ⬡ BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- ▲ Integrated Pollution Control Registered Waste Site
- ⬡ Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- ⬡ Local Authority Recorded Landfill Site
- ⬡ Registered Landfill Site
- ▼ Registered Landfill Site (Location)
- ⬡ Registered Landfill Site (Point Buffered to 100m)
- ⬡ Registered Landfill Site (Point Buffered to 250m)
- ⬡ Registered Waste Transfer Site (Location)
- ⬡ Registered Waste Transfer Site
- ⬡ Registered Waste Treatment or Disposal Site (Location)
- ⬡ Registered Waste Treatment or Disposal Site

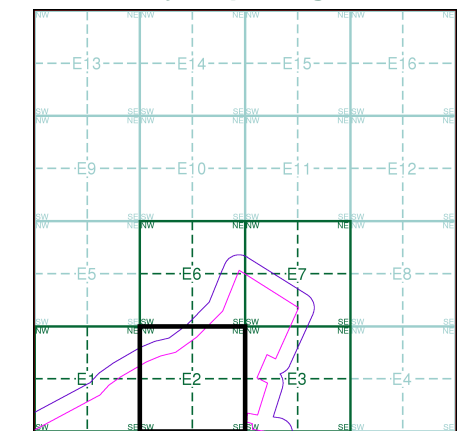
Geological

- ▼ BGS Recorded Mineral Site

Industrial Land Use

- ★ Contemporary Trade Directory Entry
- ★ Fuel Station Entry
- ✖ COMAH Site
- ✖ Explosive Site
- ✖ NIHHS Site
- ✖ Planning Hazardous Substance Consent
- ✖ Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment E2

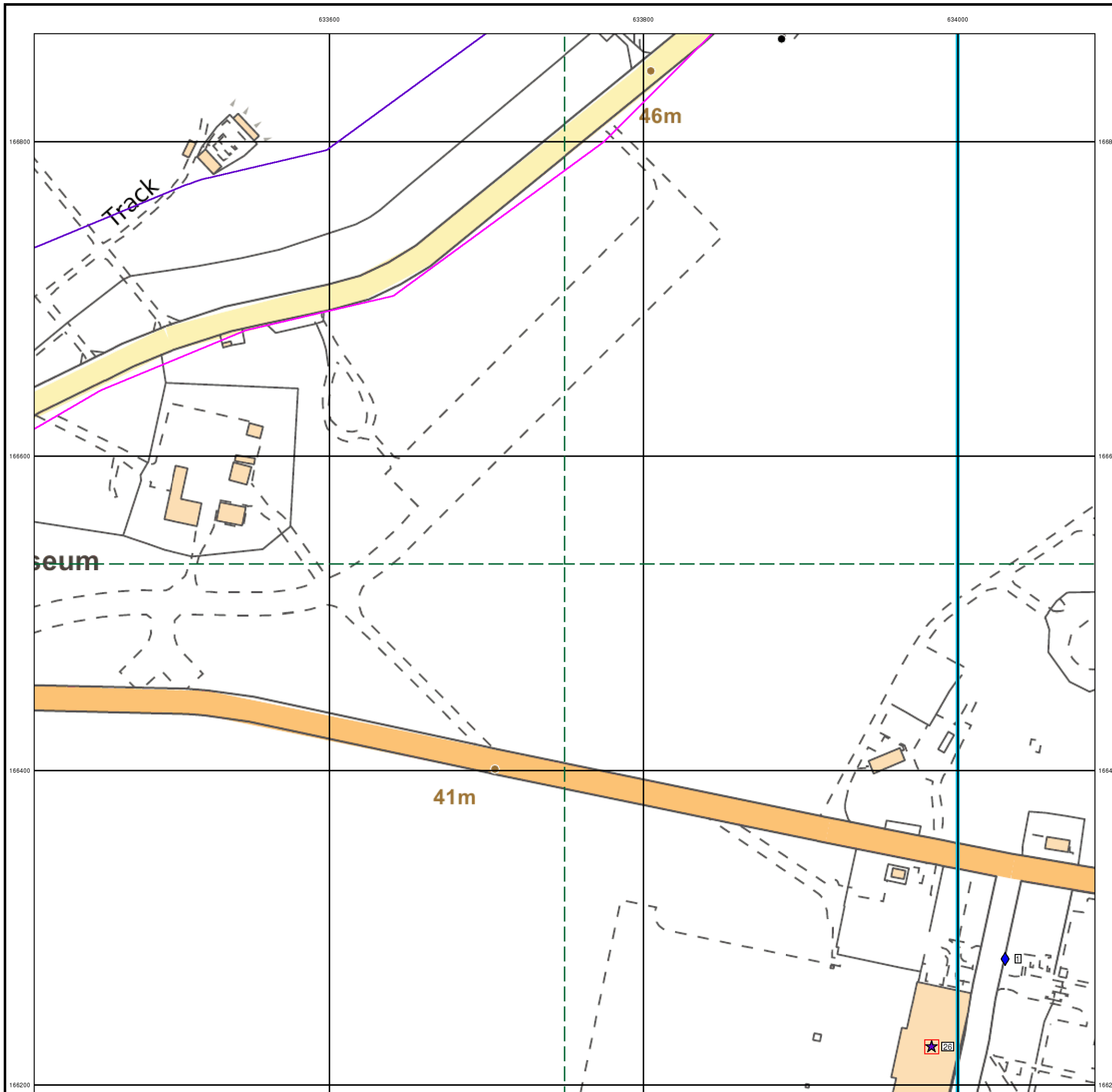


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39

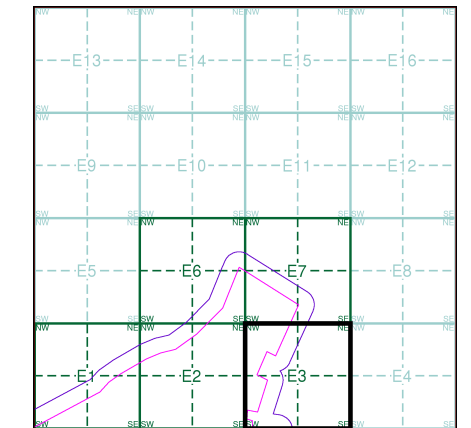
Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Segment E3

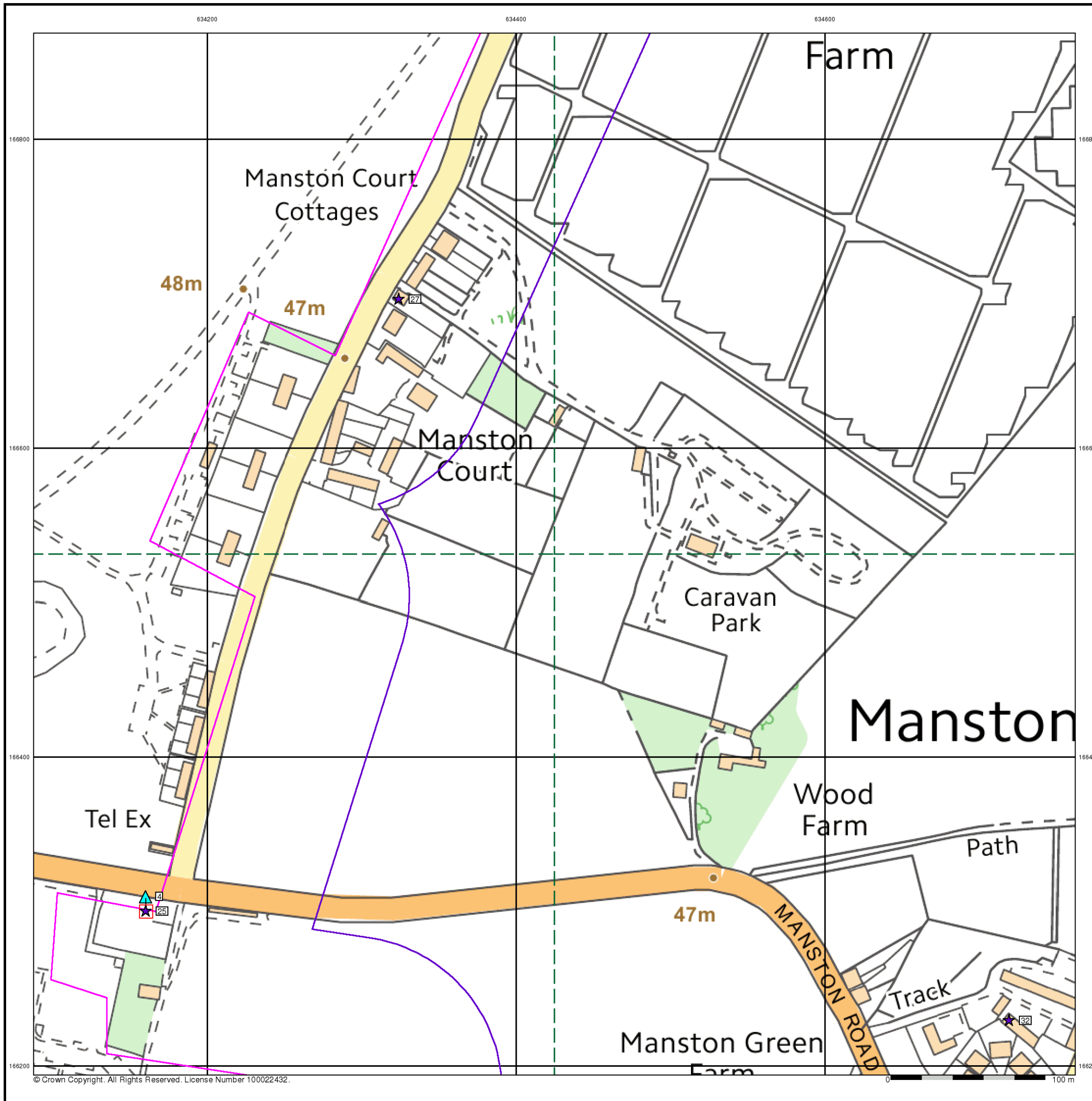


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39

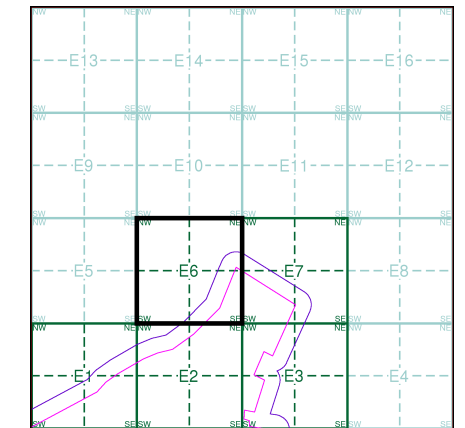
Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Segment E6

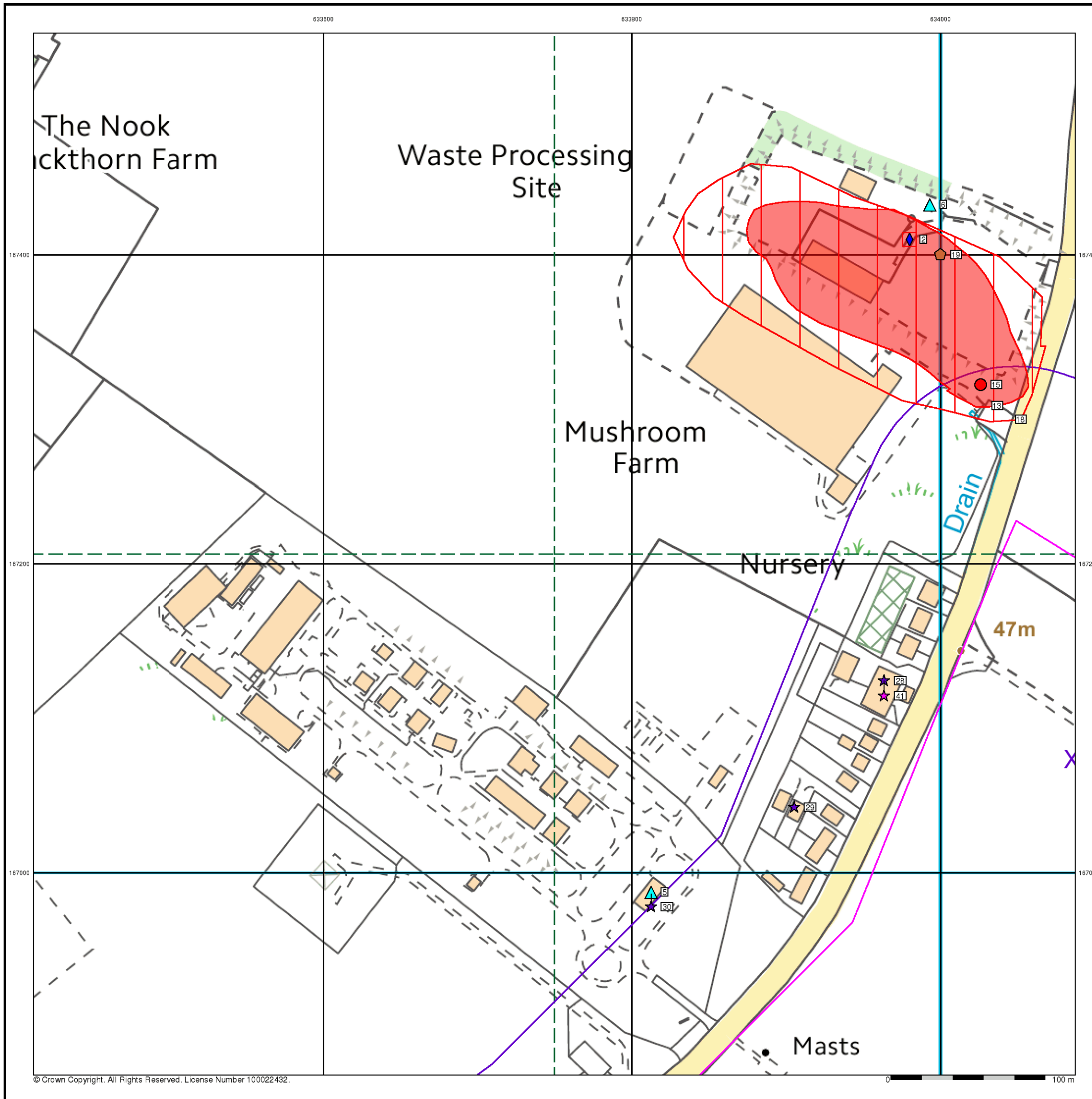


Order Details

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 Slice: E
 Site Area (Ha): 306.39

Site Details

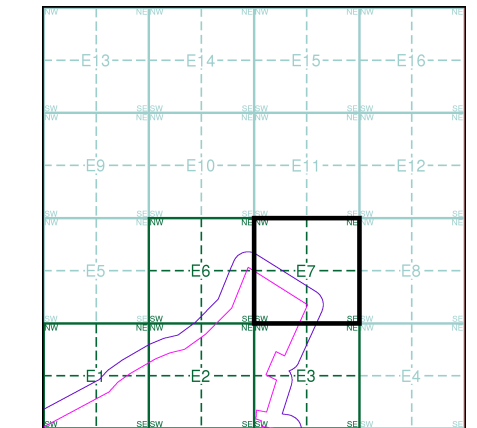
Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
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 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Segment E7

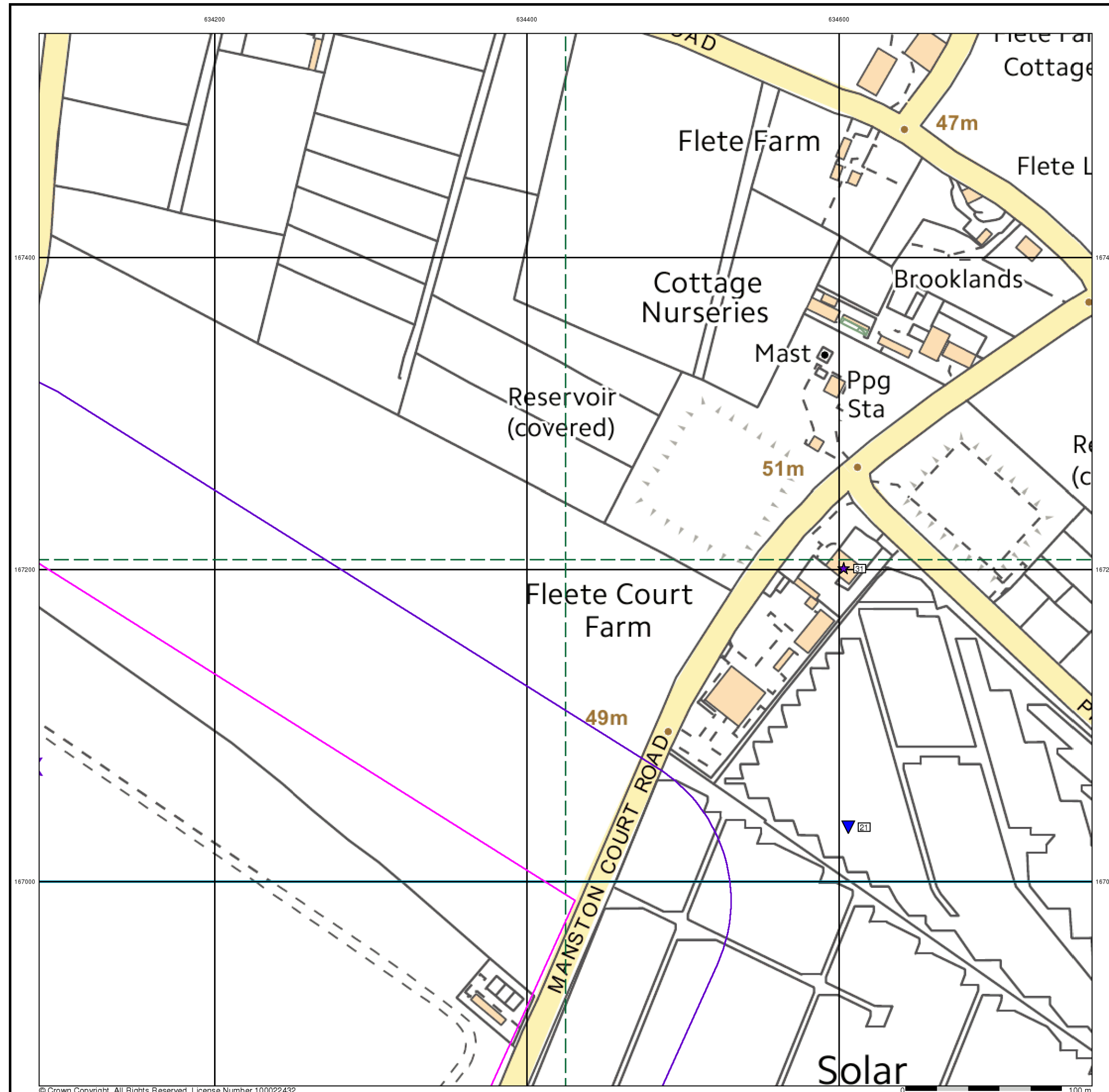


Order Details

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 Customer Ref: 38199-15
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 Slice: E
 Site Area (Ha): 306.39

Site Details

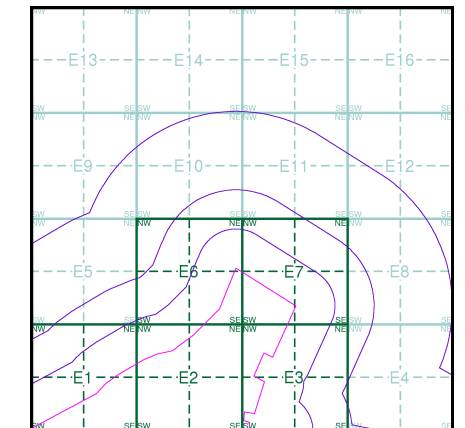
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 Manston, RAMSGATE, Kent, CT12 5BL



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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Slice E

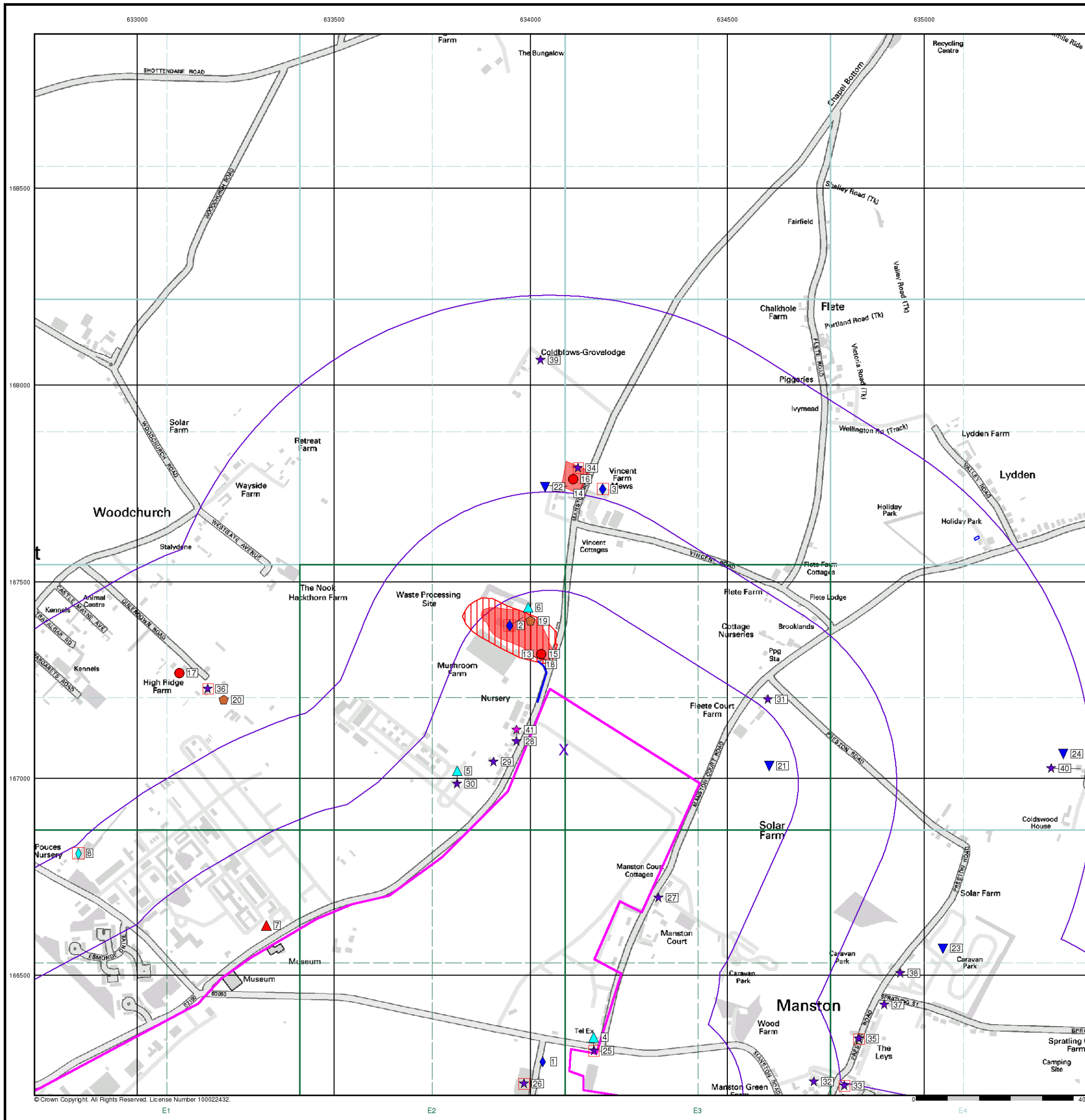


Order Details




Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details






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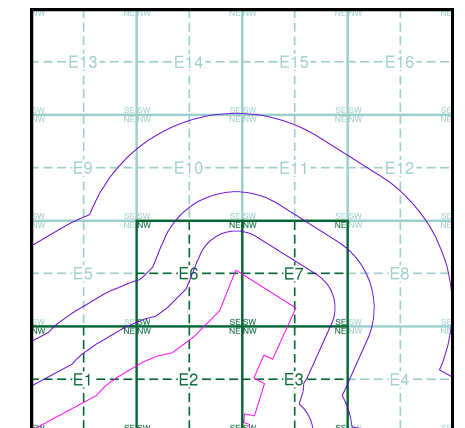
General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Agency and Hydrological (Flood)

-  Extreme Flooding from Rivers or Sea without Defences (Zone 2)
-  Flooding from Rivers or Sea without Defences (Zone 3)
-  Area Benefiting from Flood Defence
-  Flood Water Storage Areas
-  Flood Defence

Flood Map - Slice E

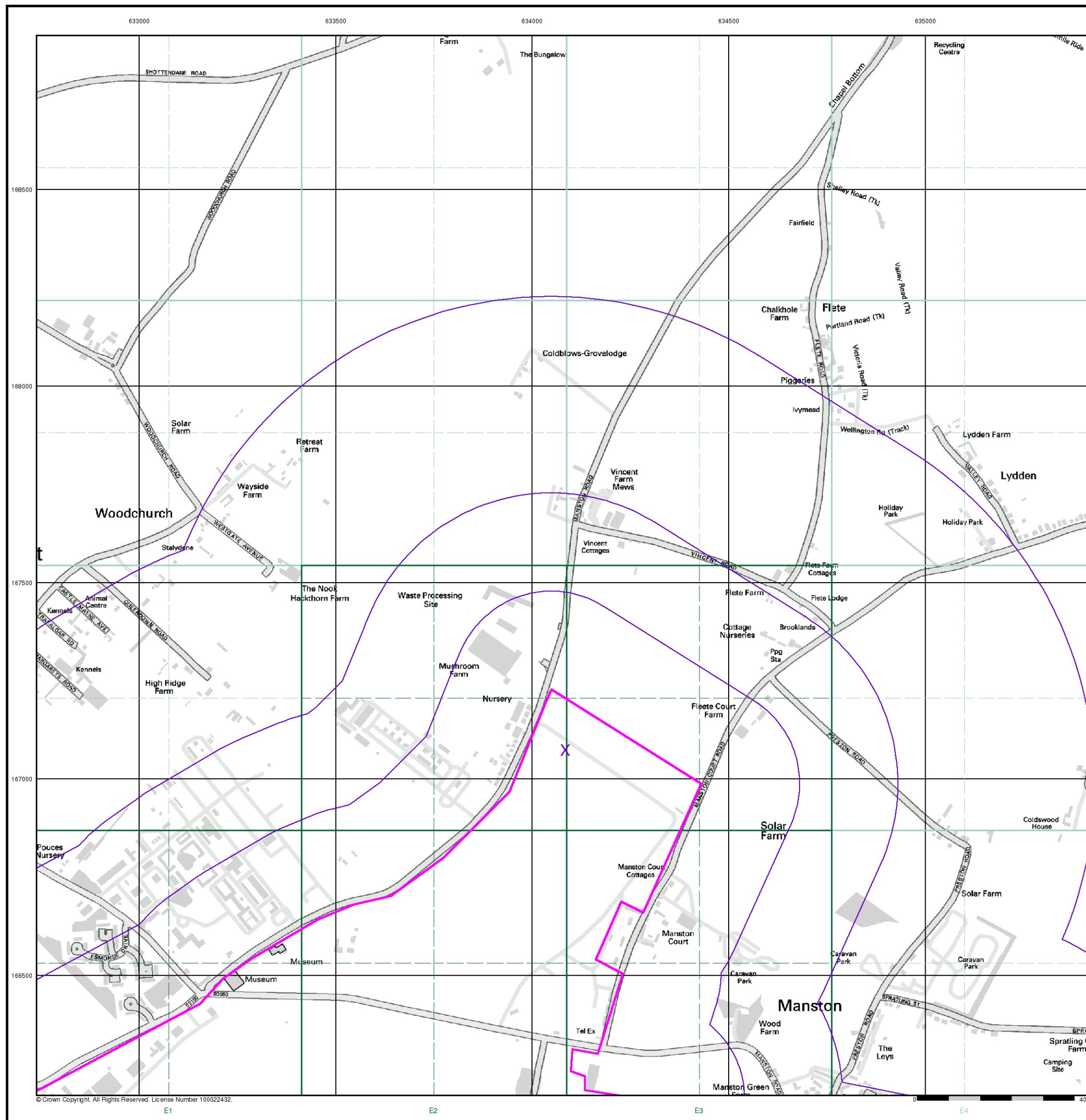


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000






Site Details

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 Manston, RAMSGATE, Kent, CT12 5BL








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General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID
-  Several of Type at Location

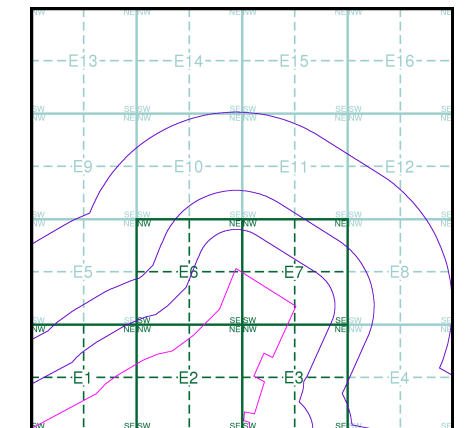
Agency and Hydrological (Boreholes)

-  BGS Borehole Depth 0 - 10m
-  BGS Borehole Depth 10 - 30m
-  BGS Borehole Depth 30m +
-  Confidential
-  Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice E

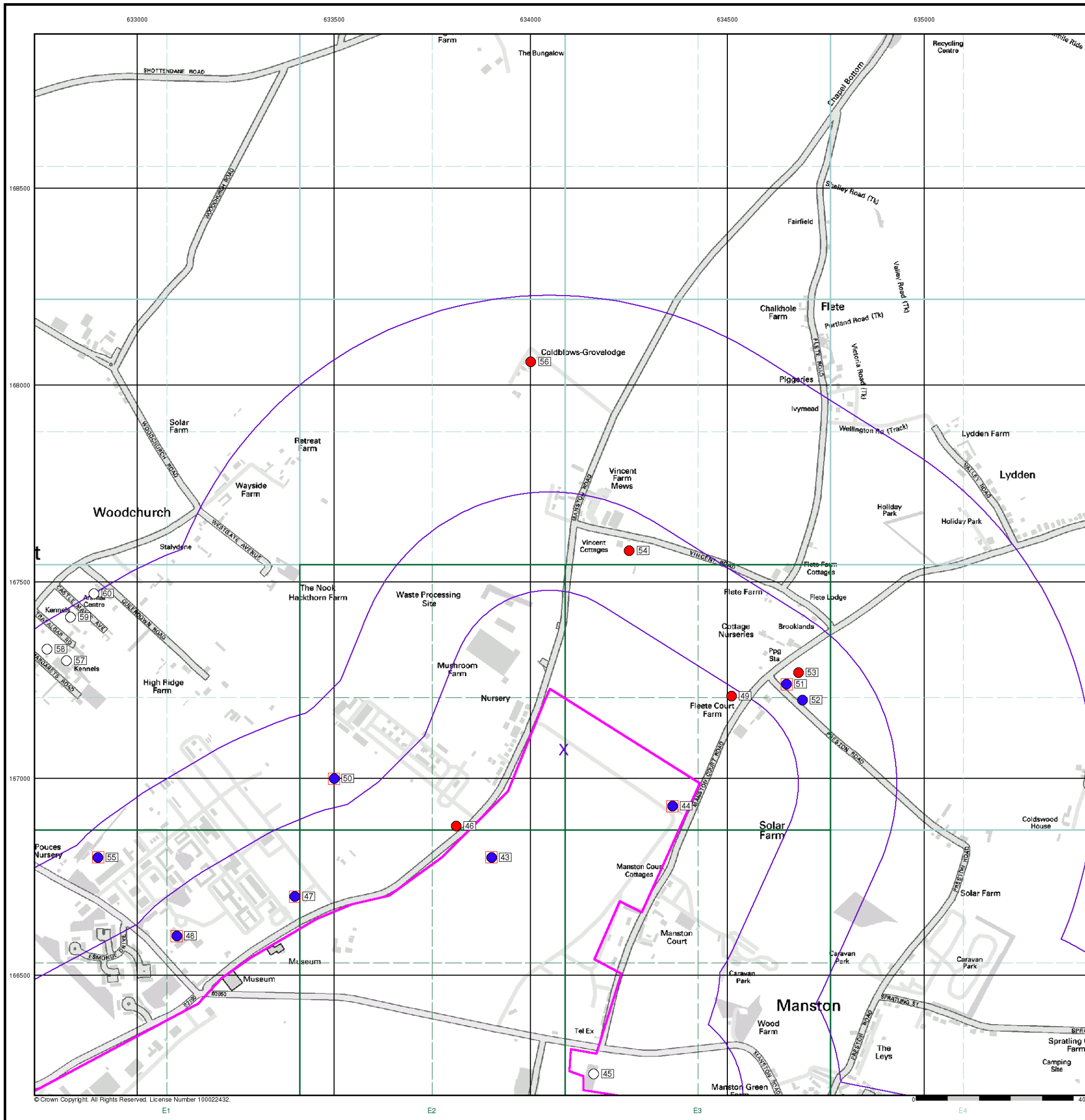


Order Details

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Site Details

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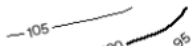

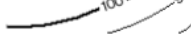



General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID

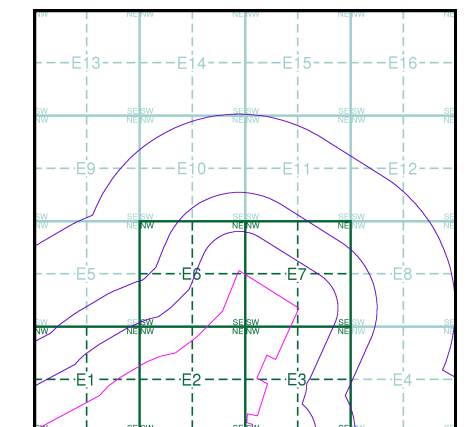
Detailed River Network Data

- | | |
|--|---|
|  Primary River |  Extended Culvert (greater than 50m) |
|  Secondary River |  Underground River (inferred) |
|  Tertiary River |  Underground River (local knowledge) |
|  Canal |  Downstream of High Water Mark |
|  Canal Tunnel |  Downstream of Seaward Extension |
|  Undefined River |  Not assigned River feature |
|  Lake/Reservoir | |
|  Offline Drainage Feature | |

Contours (height in metres)

- Standard Contour  105  100  95
- Master Contour  105  100  95
- Spot Height  167.3
-  MLW Mean Low Water
-  MHW Mean High Water

E/ANRW Detailed River Network Map - Slice E



Order Details




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Site Details

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General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Risk of Flooding from Surface Water

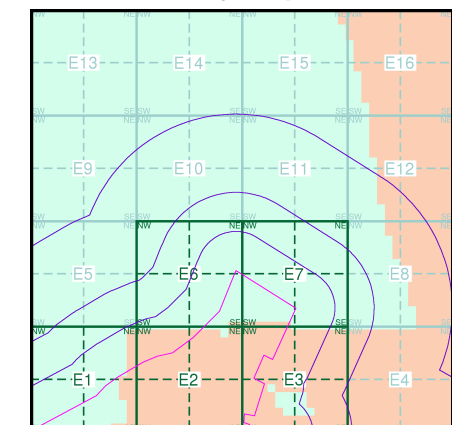
-  High - 30 Year Return
-  Medium - 100 Year Return
-  Low - 1000 Year Return

Suitability

See the suitability map below

-  National to county
-  County to town
-  Town to street
-  Street to parcels of land
-  Property

EANRW Suitability Map - Slice E

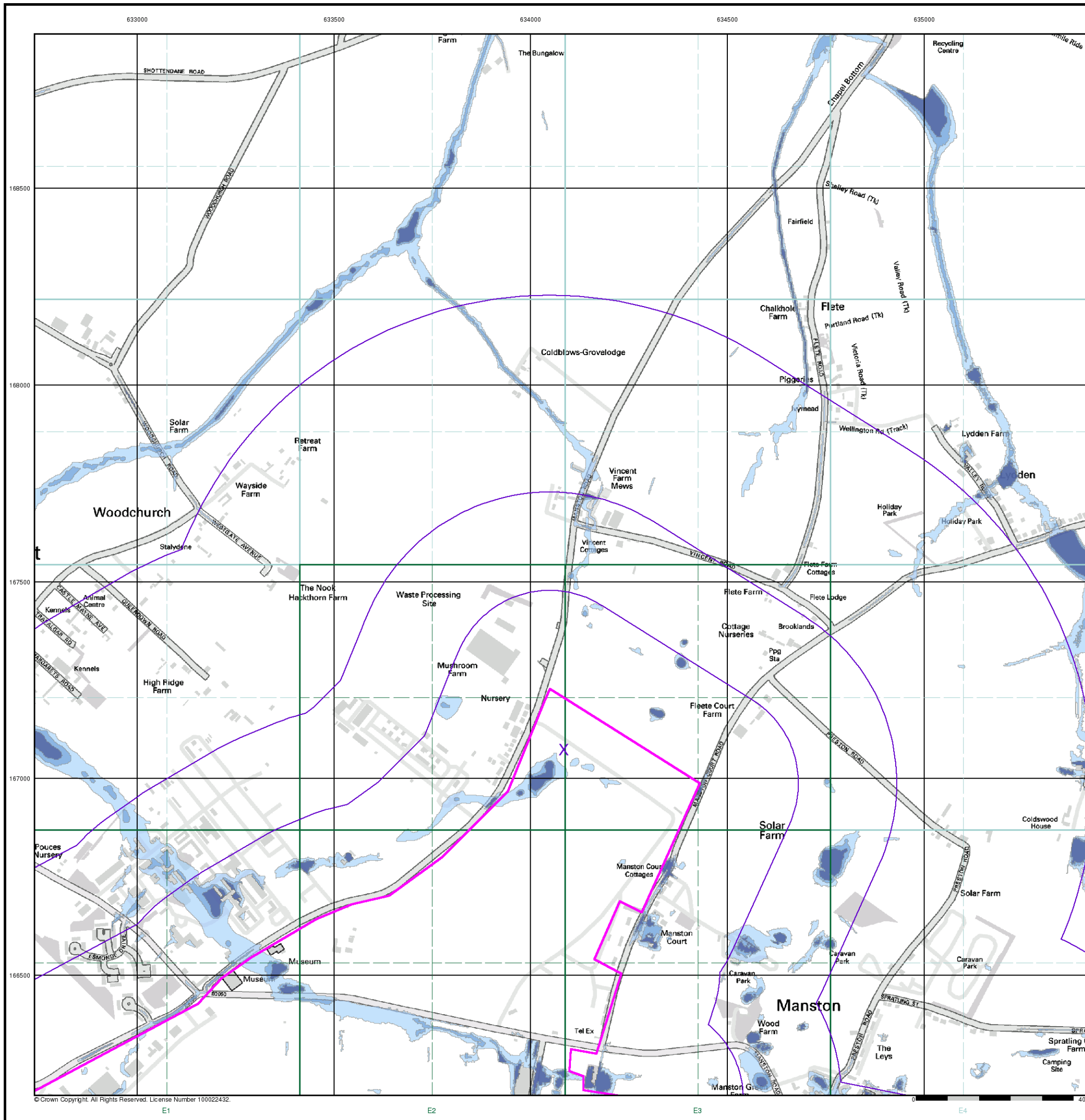


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Site Details

Kent International Airport Ltd, Kent International Airport,
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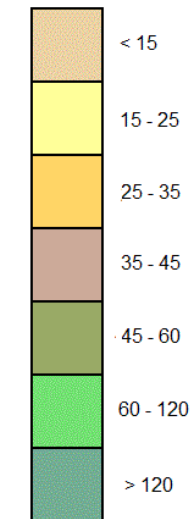
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General

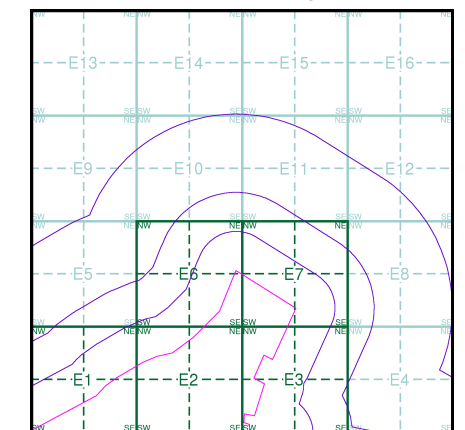
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice E



Order Details

Order Details: 82787389_1_1
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Site Details

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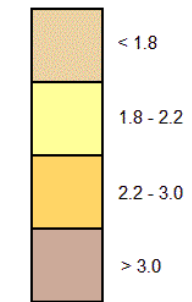
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General

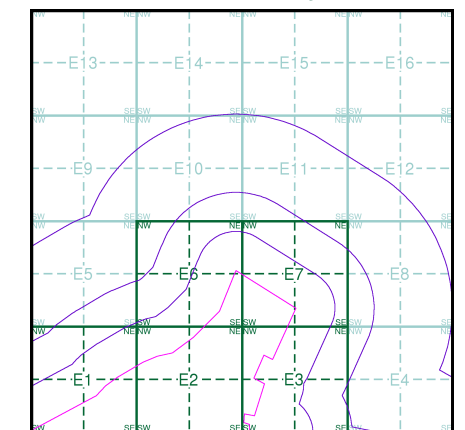
- ⬢ Specified Site
- ⬢ Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice E



Order Details

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 Slice: E
 Site Area (Ha): 306.39
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Site Details

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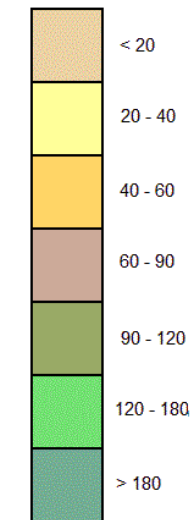
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General

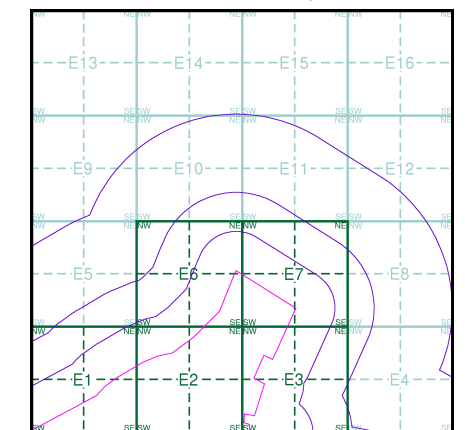
- ✱ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice E

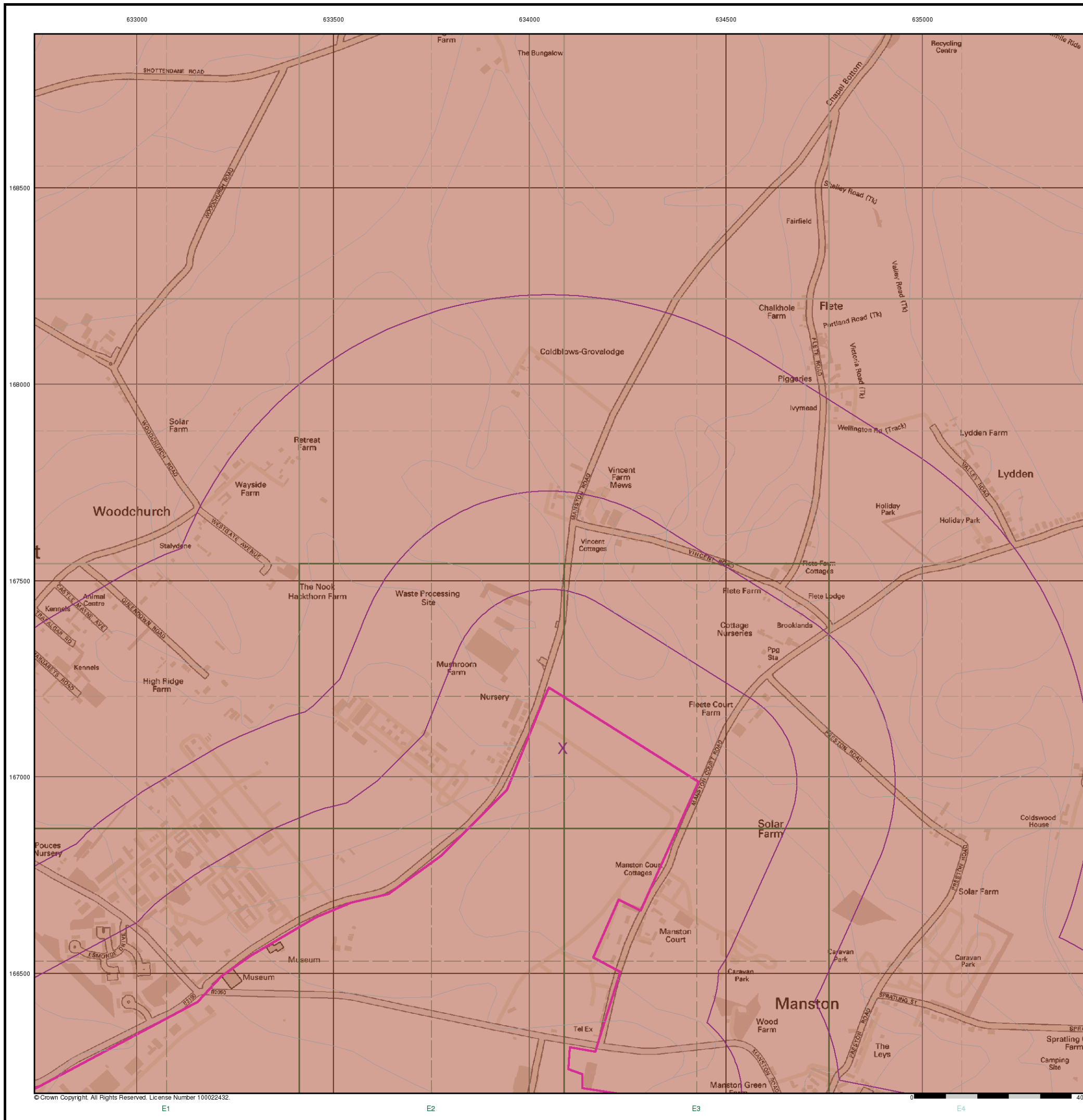


Order Details

Order Details: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000


Site Details

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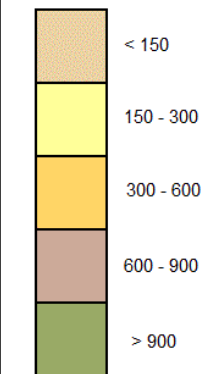
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General

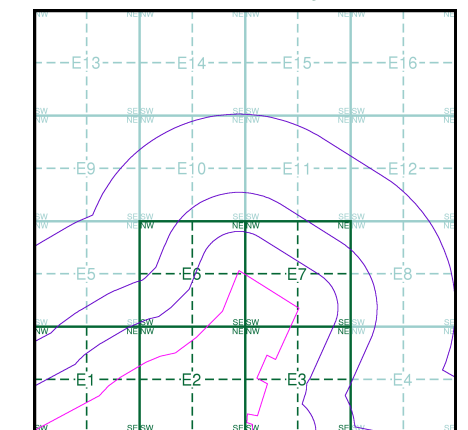
-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice E



Order Details

Order Details: 82787389_1_1
 Customer Ref: 38199-15
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 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

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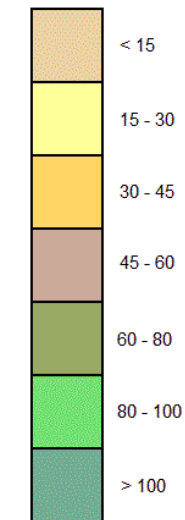
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General

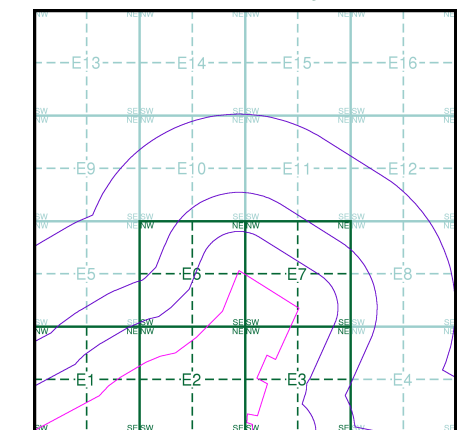
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice E



Order Details

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Site Details

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Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
County Burgh Boundary (Scotland)
Co. Boro. Bdy.
Co. Burgh Bdy.
BP BS Boundary Post or Stone **P.C.B** Police Call Box
B.R. Bridle Road **P** Pump
E.P Electricity Pylon **S.P** Signal Post
F.B. Foot Bridge **SL** Sluice
F.P. Foot Path **Sp.** Spring
G.P Guide Post or Board **T.C.B** Telephone Call Box
M.S Mile Stone **Tr.** Trough
M.P M.R Mooring Post or Ring **W** Well

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH Beer House **P** Pillar, Pole or Post
BP, BS Boundary Post or Stone **PO** Post Office
Cn, C Capstan, Crane **PC** Public Convenience
Chy Chimney **PH** Public House
D Fn Drinking Fountain **Pp** Pump
EI P Electricity Pillar or Post **SB, S Br** Signal Box or Bridge
FAP Fire Alarm Pillar **SP, SL** Signal Post or Light
FB Foot Bridge **Spr** Spring
GP Guide Post **Tk** Tank or Track
H Hydrant or Hydraulic **TCB** Telephone Call Box
LC Level Crossing **TCP** Telephone Call Post
MH Manhole **Tr** Trough
MP Mile Post or Mooring Post **Wr Pt, Wr T** Water Point, Water Tap
MS Mile Stone **W** Well
NTL Normal Tidal Limit **Wd Pp** Wind Pump

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

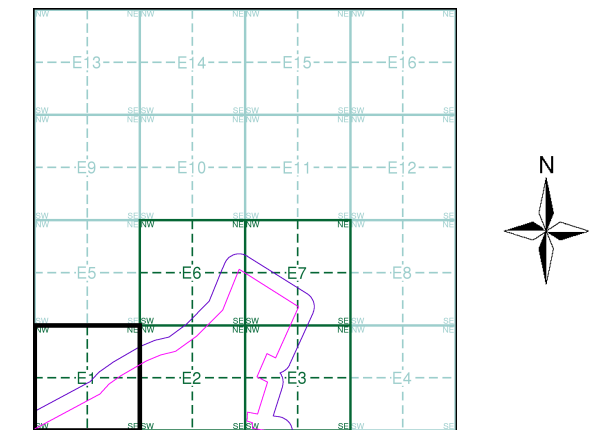
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
B.M. 231.60m Bench Mark **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks Barracks **P** Pillar, Pole or Post
Bty Battery **PO** Post Office
Cemy Cemetery **PC** Public Convenience
Chy Chimney **Pp** Pump
Cis Cistern **Ppg Sta** Pumping Station
Dismtd Rly Dismantled Railway **PW** Place of Worship
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta** Sewage Pumping Station
EI P Electricity Pole, Pillar **SB, S Br** Signal Box or Bridge
EI Sub Sta Electricity Sub Station **SP, SL** Signal Post or Light
FB Filter Bed **Spr** Spring
Fn / D Fn Fountain / Drinking Ftn. **Tk** Tank or Track
Gas Gov Gas Valve Compound **Tr** Trough
GVC Gas Governor **Wd Pp** Wind Pump
GP Guide Post **Wr Pt, Wr T** Water Point, Water Tap
MH Manhole **Wks** Works (building or area)
MP, MS Mile Post or Mile Stone **W** Well



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1894	2
Kent	1:2,500	1896	3
Kent	1:2,500	1907	4
Kent	1:2,500	1939	5
Ordnance Survey Plan	1:2,500	1964	6
Additional SIMs	1:2,500	1979 - 1989	7
Additional SIMs	1:2,500	1989	8
Large-Scale National Grid Data	1:2,500	1993	9

Historical Map - Segment E1



Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



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

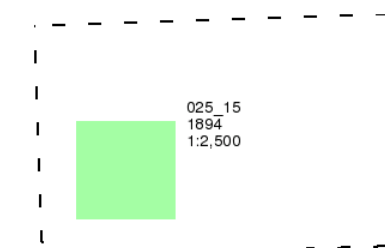
Kent

Published 1894

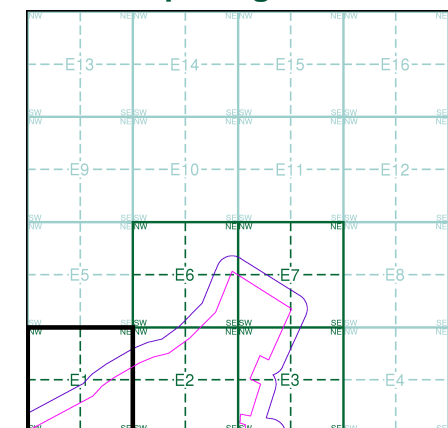
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E1

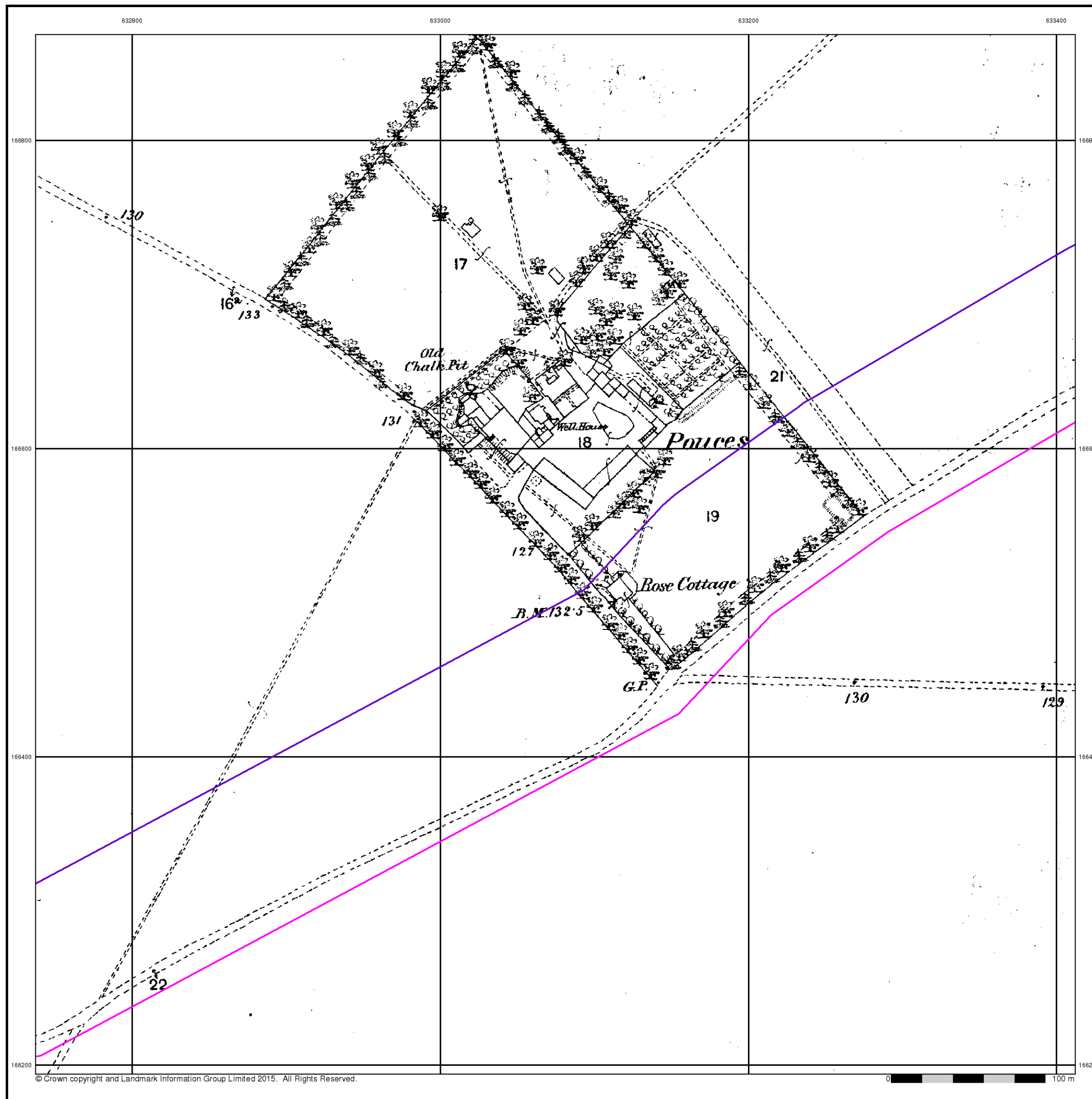


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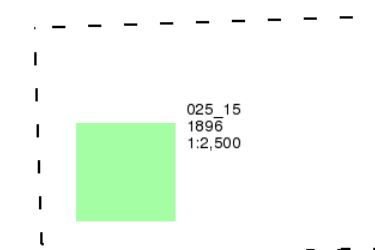
Kent

Published 1896

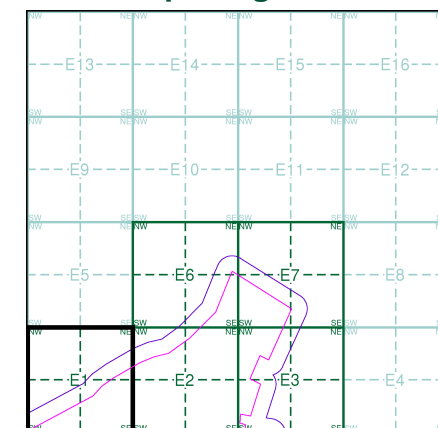
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E1

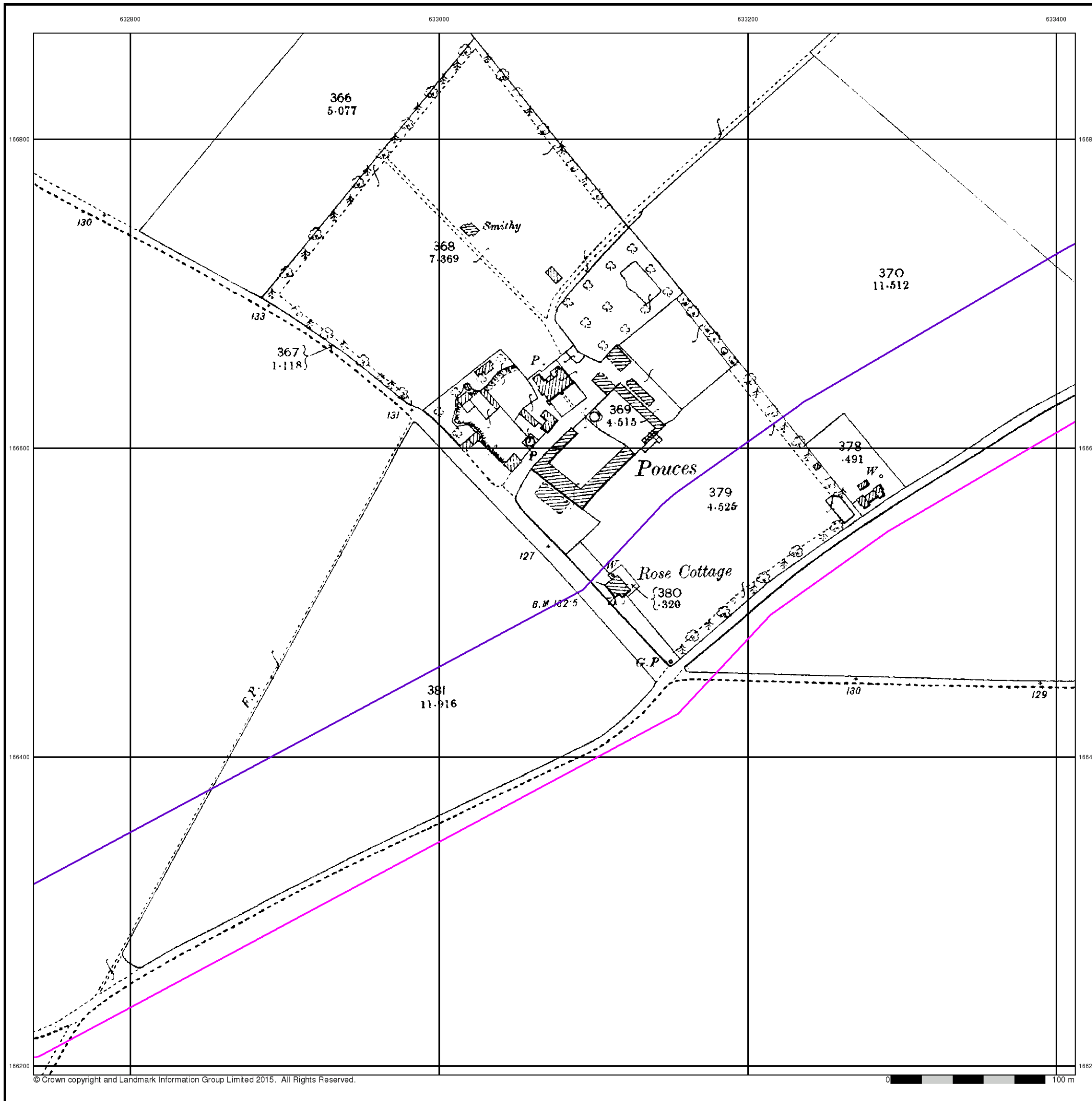


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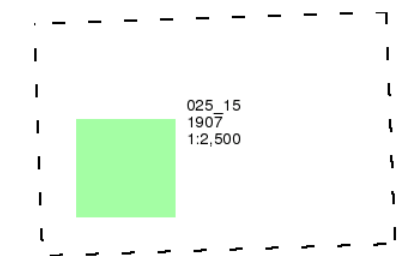
Kent

Published 1907

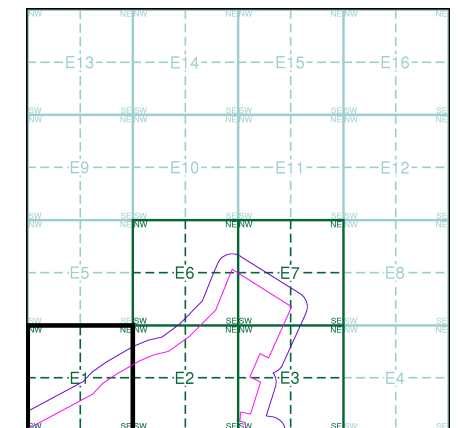
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E1

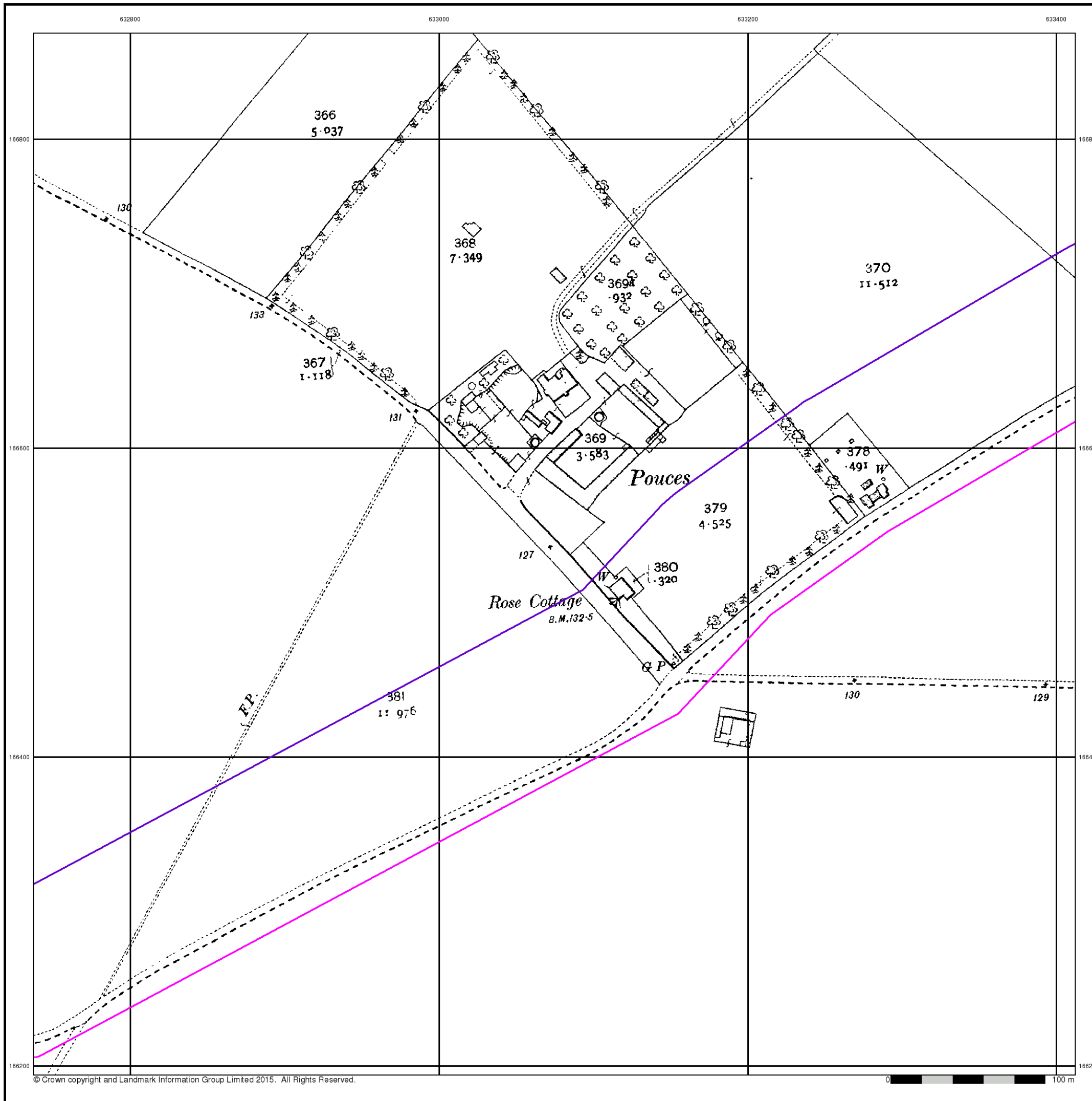


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Site Details

Kent International Airport Ltd, Kent International Airport,
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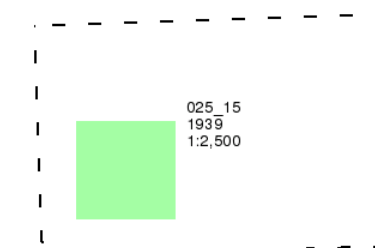
Kent

Published 1939

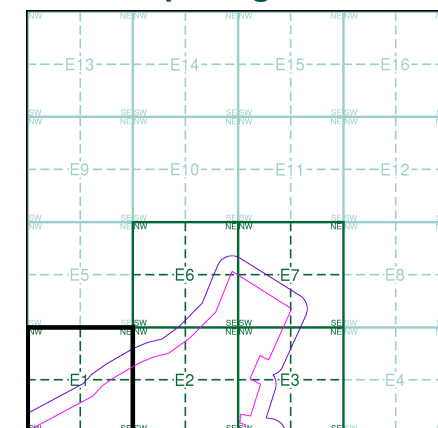
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E1

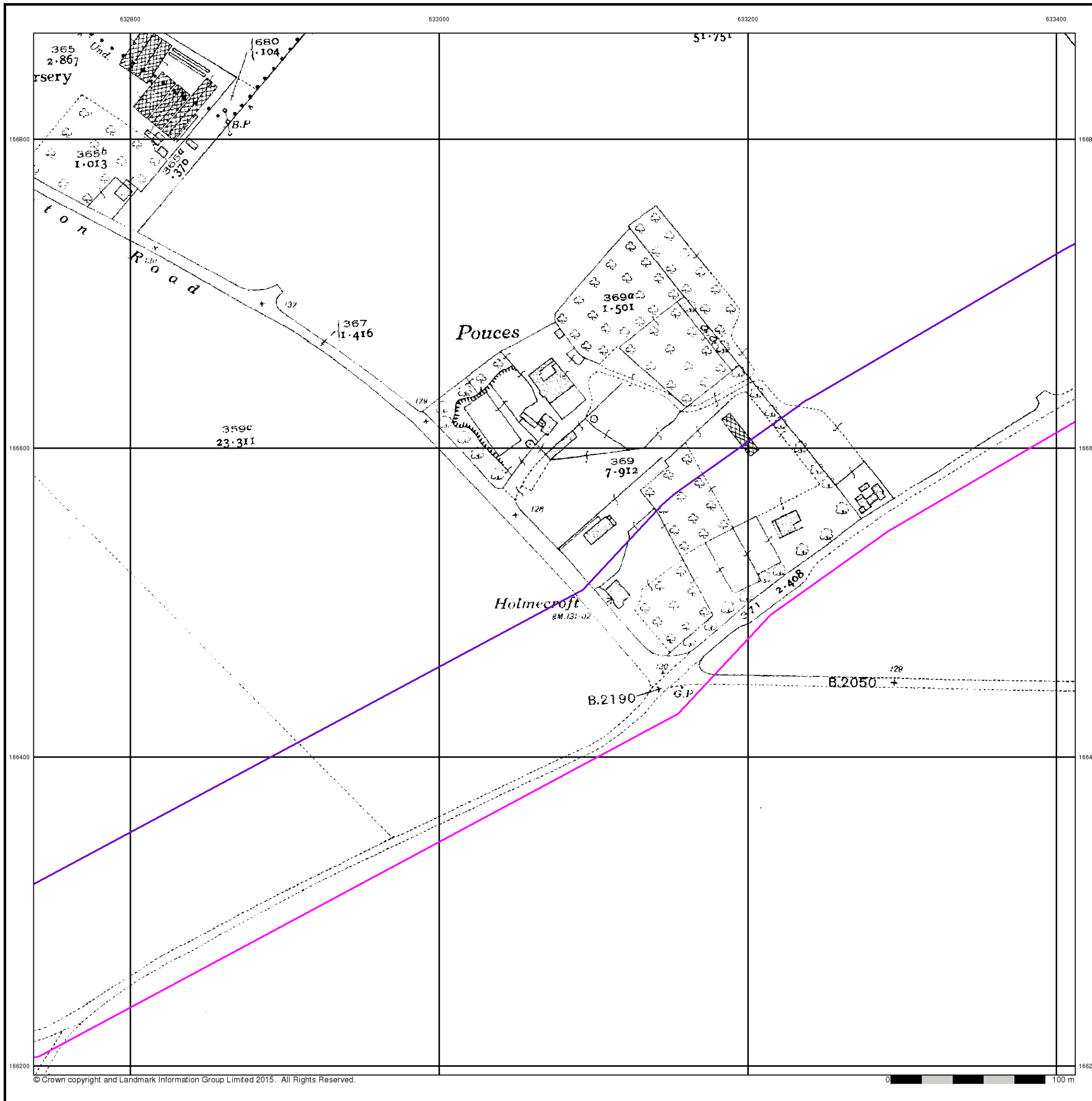


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Site Details

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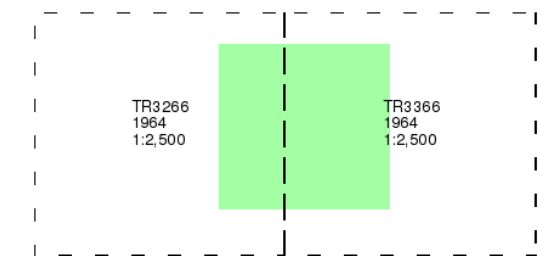
Ordnance Survey Plan

Published 1964

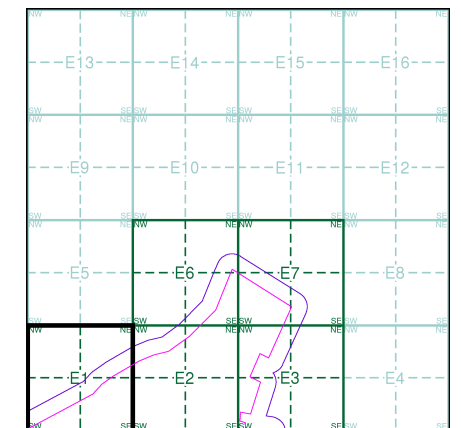
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E1

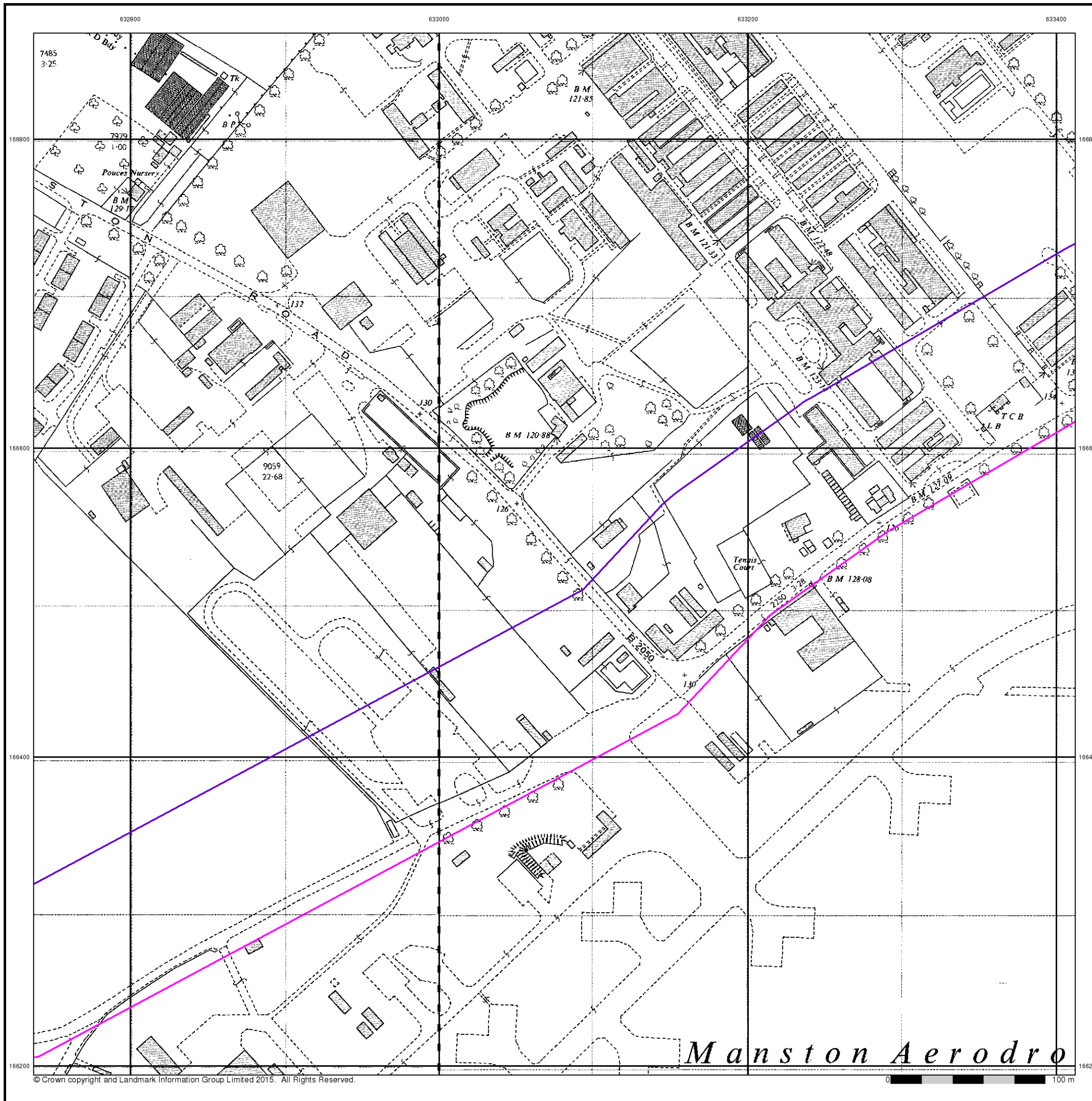


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



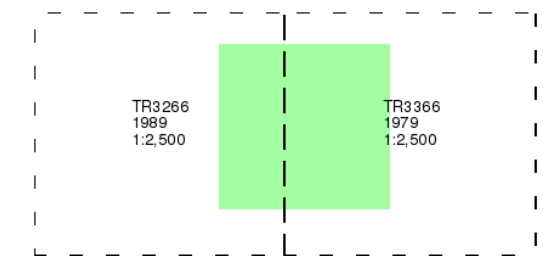
Additional SIMs

Published 1979 - 1989

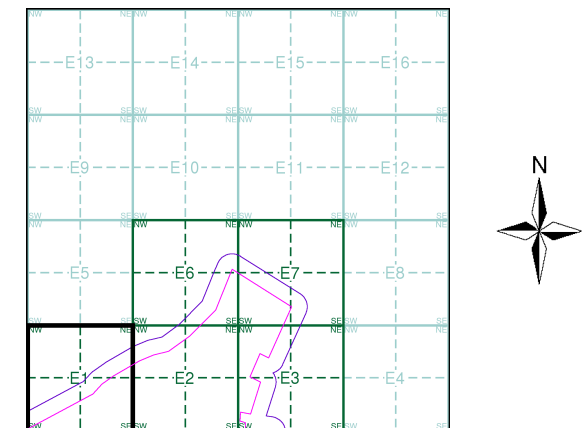
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E1

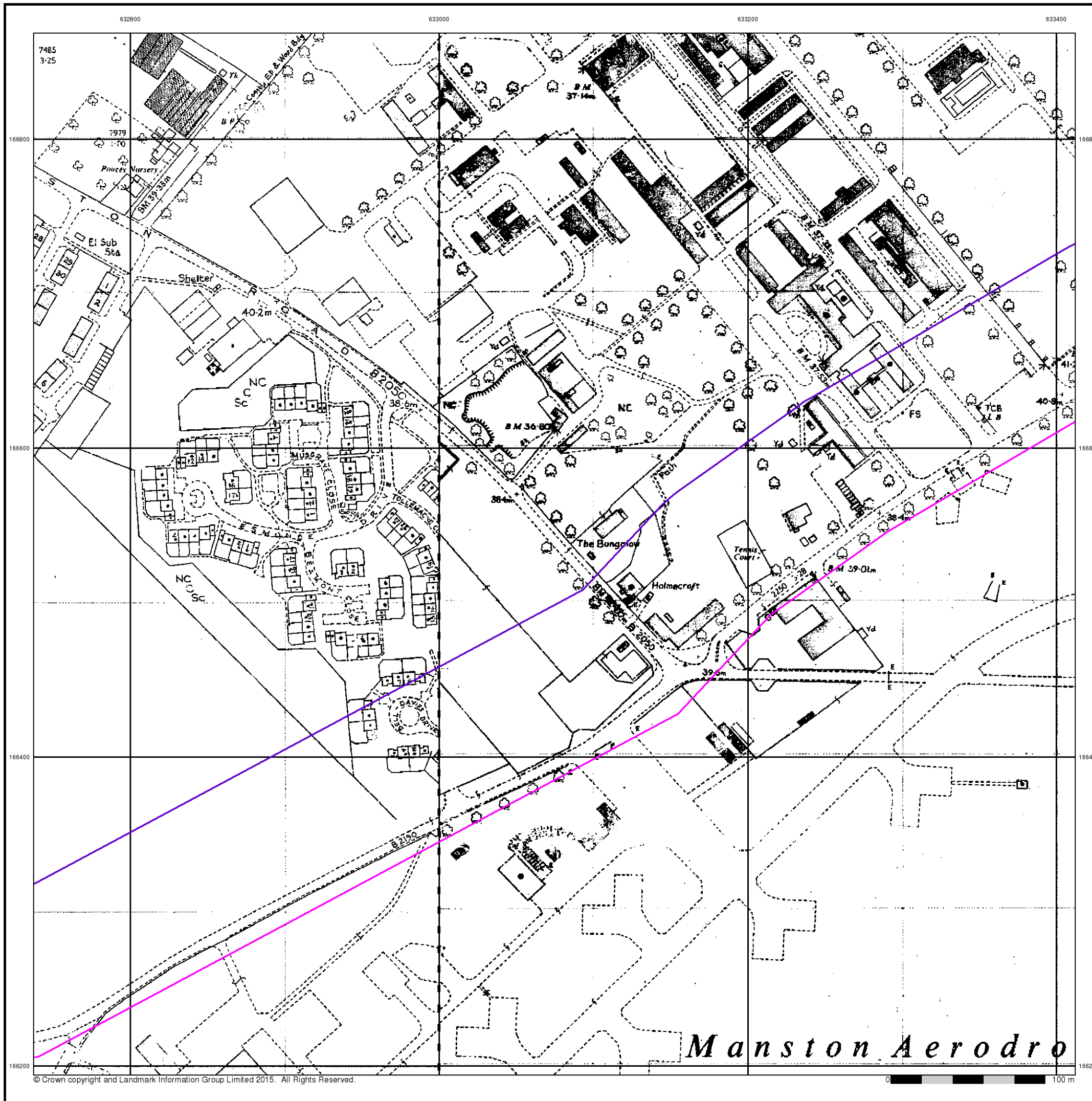


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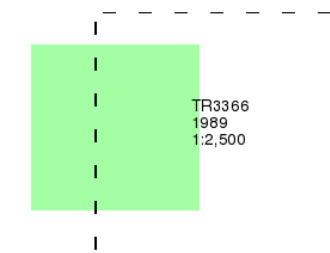
Additional SIMs

Published 1989

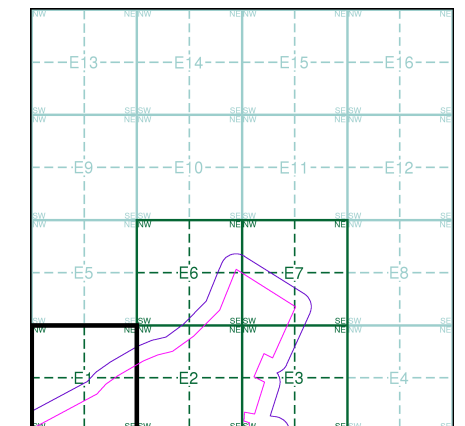
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment E1

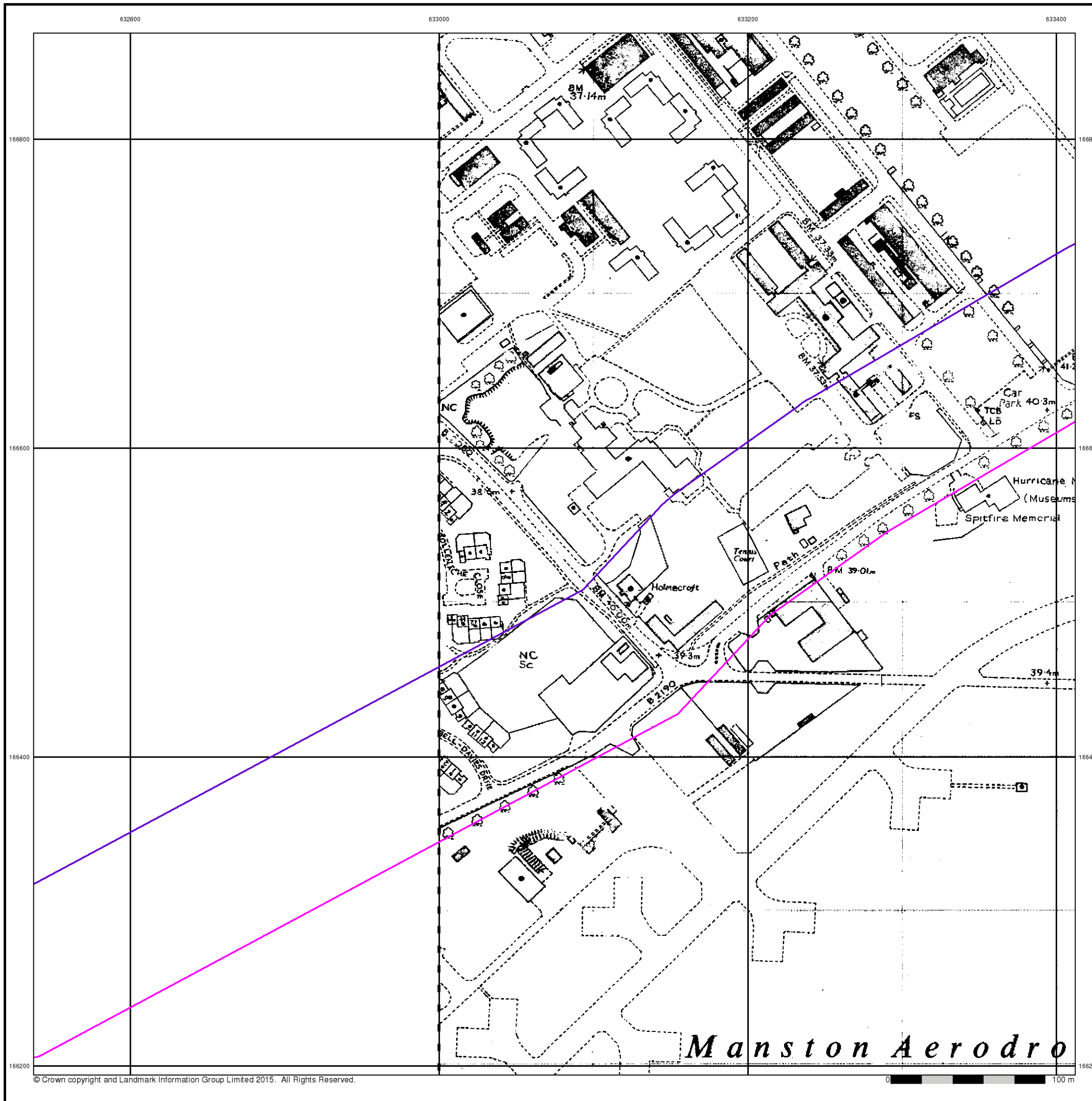


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Site Details

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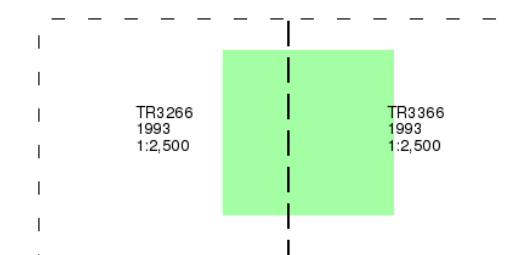
Large-Scale National Grid Data

Published 1993

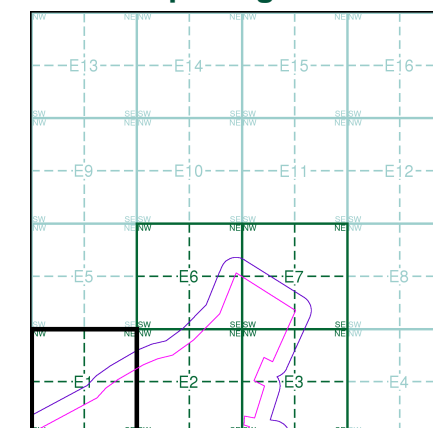
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E1

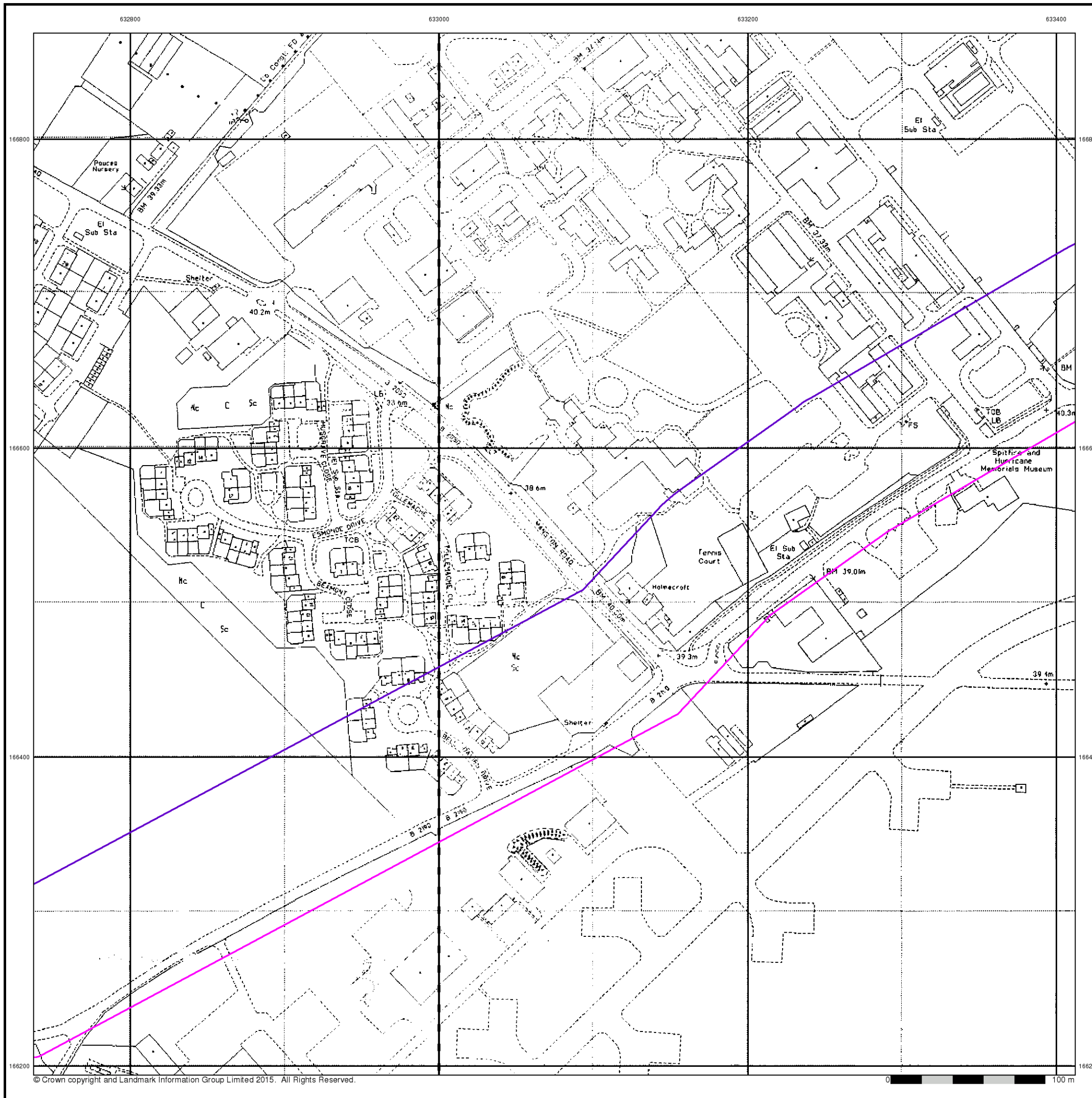


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Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
Co. Boro. Bdy.
County Burgh Boundary (Scotland)
Boundary Post or Stone **Police Call Box**
B.R. **Bridle Road** **P** **Pump**
E.P. **Electricity Pylon** **S.P.** **Signal Post**
F.B. **Foot Bridge** **Sl.** **Sluice**
F.P. **Foot Path** **Sp.** **Spring**
G.P. **Guide Post or Board** **T.C.B.** **Telephone Call Box**
M.S. **Mile Stone** **Tr.** **Trough**
M.P. M.R. **Mooring Post or Ring** **W** **Well**

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
Beer House **Pillar, Pole or Post**
Boundary Post or Stone **Post Office**
Capstan, Crane **Public Convenience**
Chimney **Public House**
Drinking Fountain **Pump**
Electricity Pillar or Post **Signal Box or Bridge**
Fire Alarm Pillar **Signal Post or Light**
Foot Bridge **Spring**
Guide Post **Tank or Track**
Hydrant or Hydraulic **Telephone Call Box**
Level Crossing **Telephone Call Post**
Manhole **Trough**
Mile Post or Mooring Post **Water Point, Water Tap**
Mile Stone **Well**
Normal Tidal Limit **Wind Pump**

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

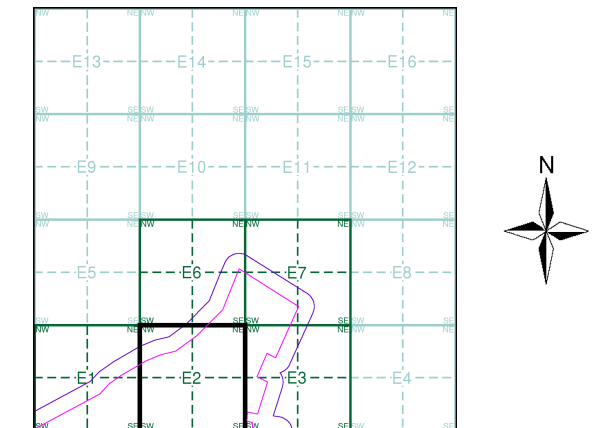
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
Bench Mark **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Barracks **Pillar, Pole or Post**
Battery **Post Office**
Cemetery **Public Convenience**
Chimney **Pump**
Cistern **Pumping Station**
Dismtd Rly **Place of Worship**
Electricity Generating Station **Sewage Ppg Sta** **Sewage Pumping Station**
Electricity Pole, Pillar **Signal Box or Bridge**
Electricity Sub Station **Signal Post or Light**
Filter Bed **Spring**
Fountain / Drinking Ftn. **Tank or Track**
Gas Valve Compound **Trough**
Gas Governor **Wind Pump**
Guide Post **Water Point, Water Tap**
Manhole **Works (building or area)**
Mile Post or Mile Stone **Well**



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1894	2
Kent	1:2,500	1896	3
Kent	1:2,500	1907	4
Kent	1:2,500	1939	5
Ordnance Survey Plan	1:2,500	1964	6
Additional SIMs	1:2,500	1977 - 1979	7
Ordnance Survey Plan	1:2,500	1981	8
Ordnance Survey Plan	1:2,500	1985	9
Additional SIMs	1:2,500	1989	10
Large-Scale National Grid Data	1:2,500	1993	11

Historical Map - Segment E2



Order Details

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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



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

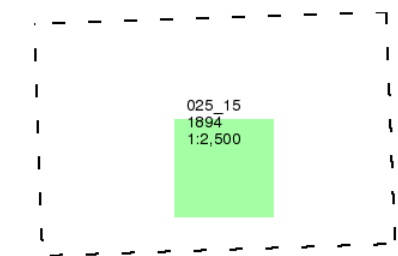
Kent

Published 1894

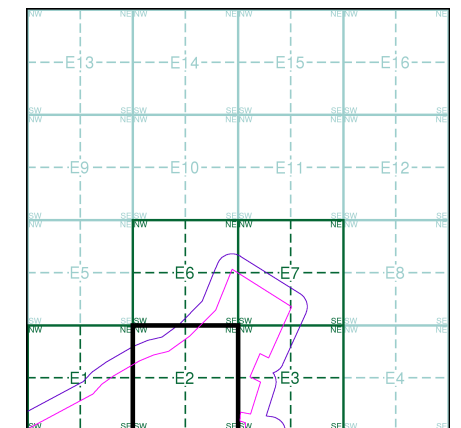
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E2

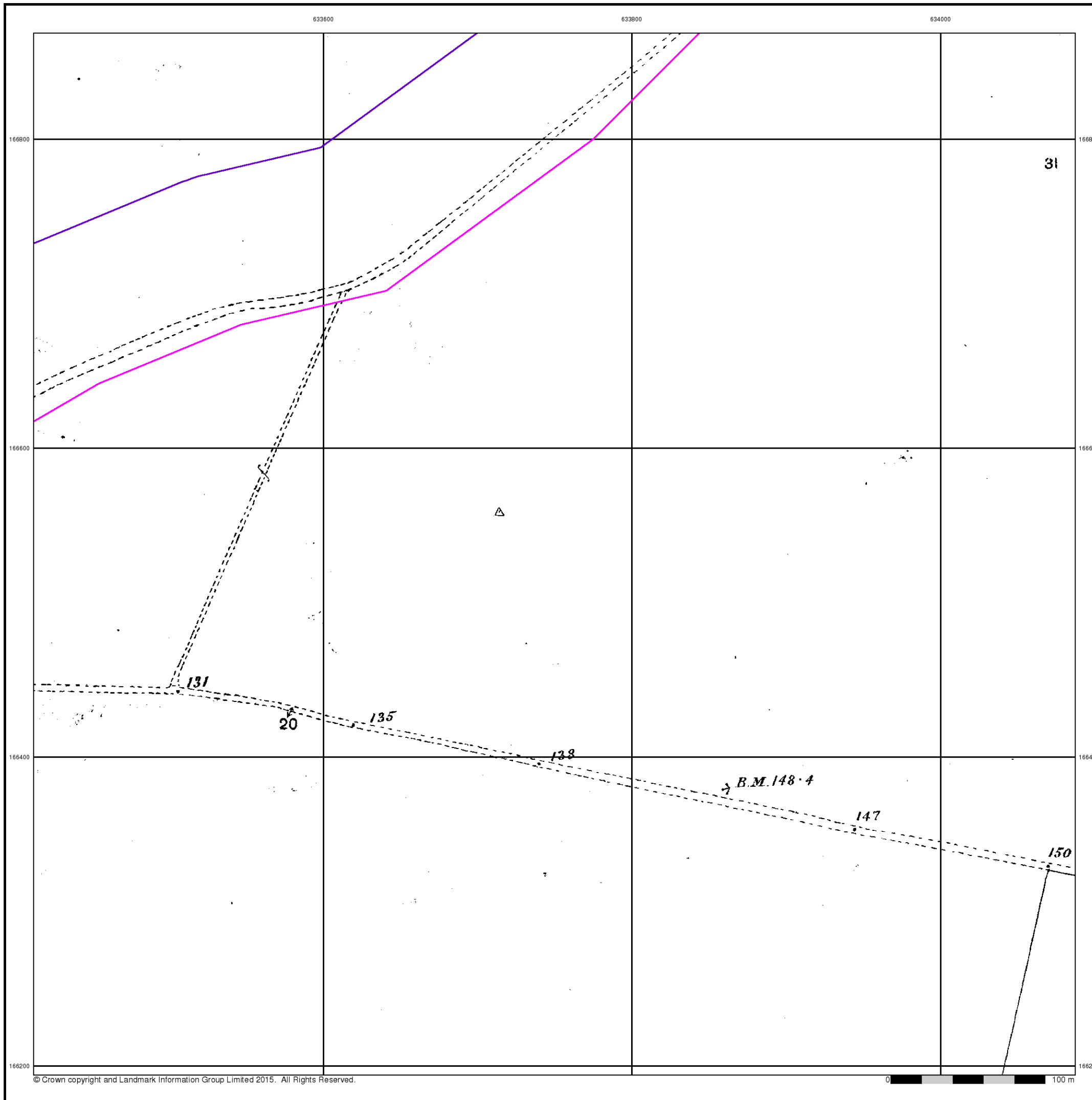


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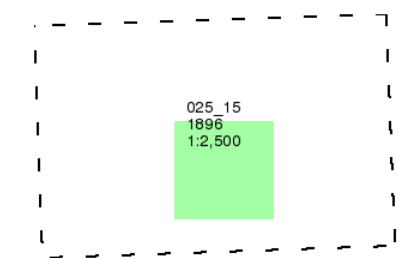
Kent

Published 1896

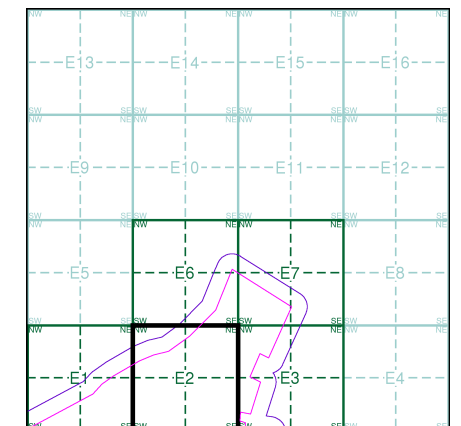
Source map scale - 1:2,500

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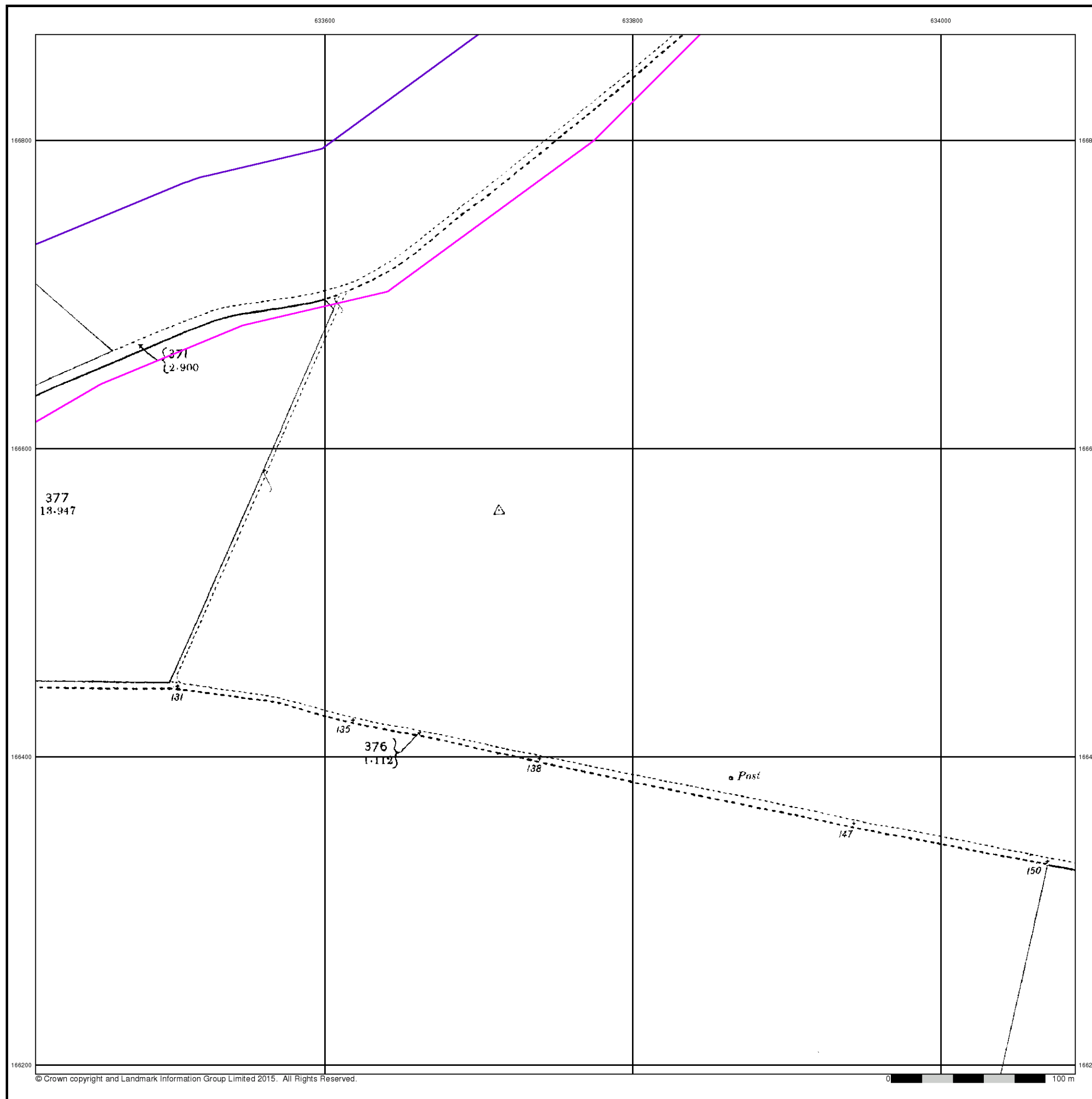


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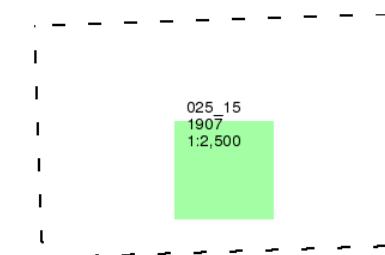
Kent

Published 1907

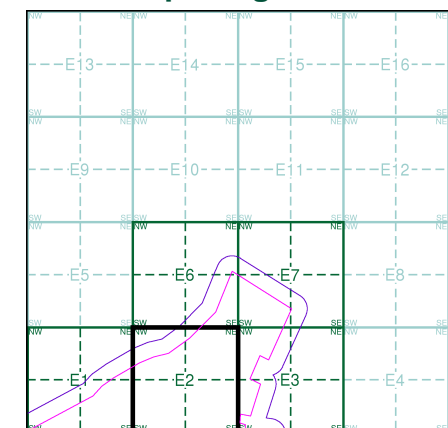
Source map scale - 1:2,500

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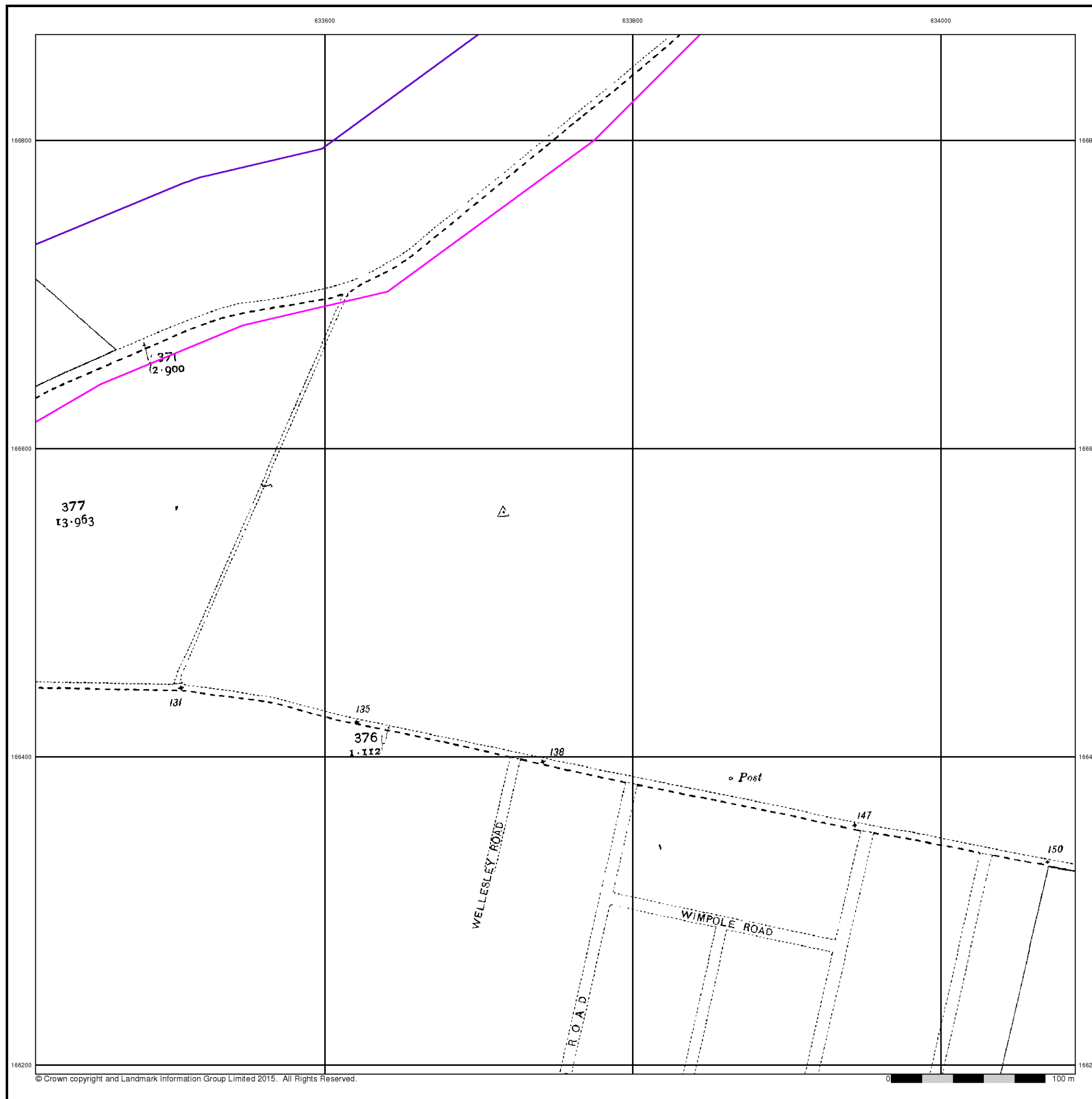


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Site Details

Kent International Airport Ltd, Kent International Airport,
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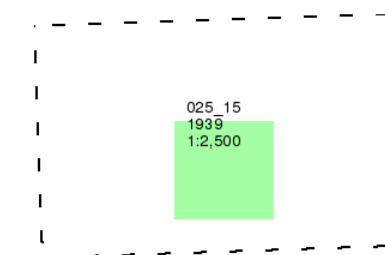
Kent

Published 1939

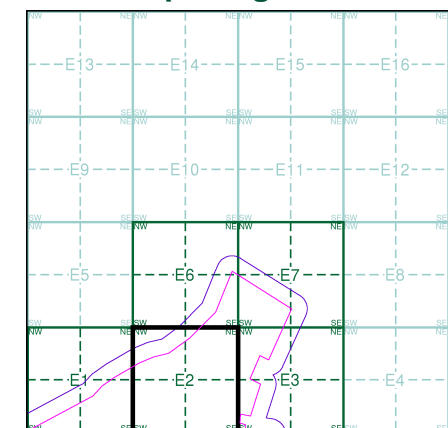
Source map scale - 1:2,500

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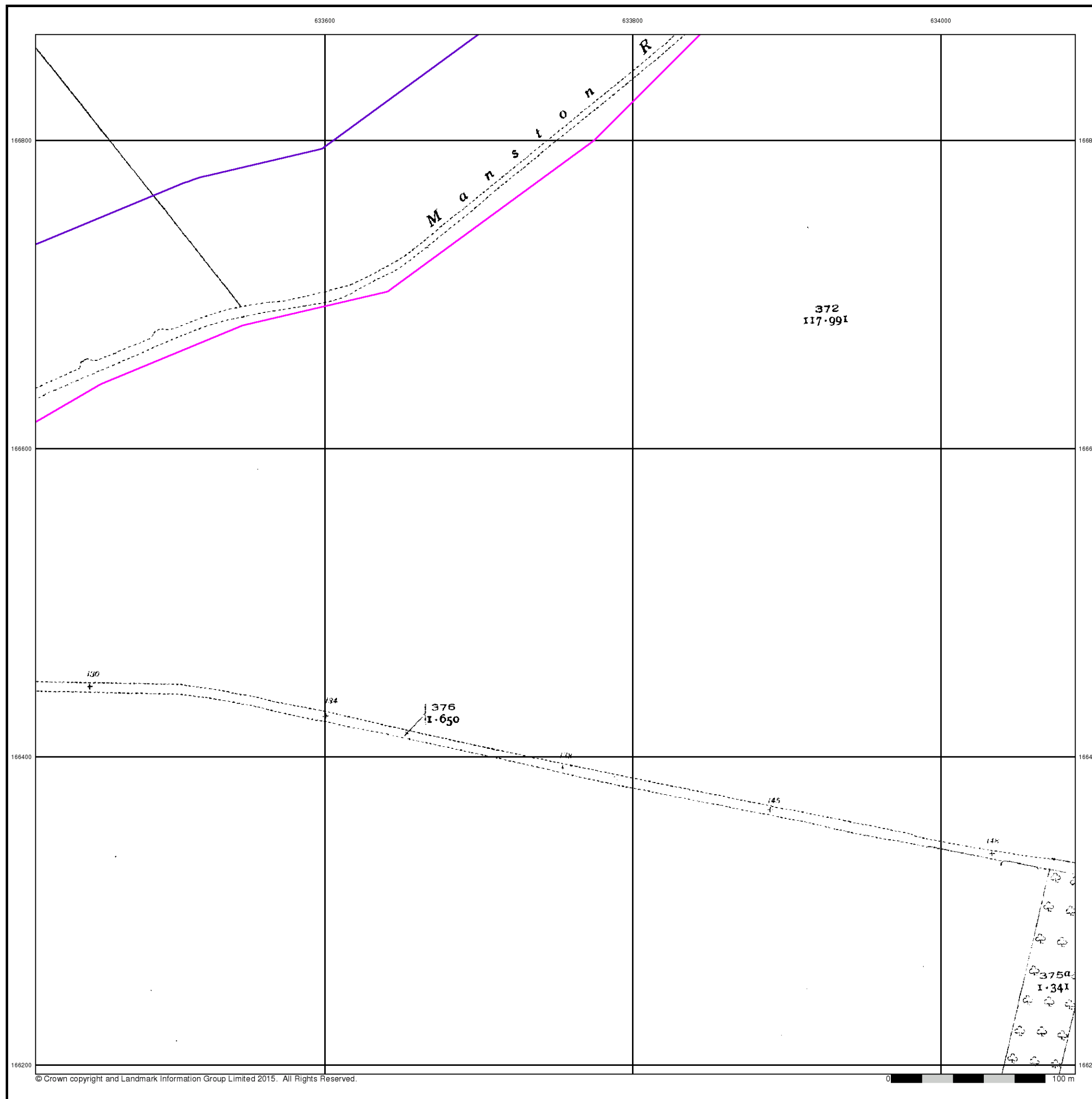


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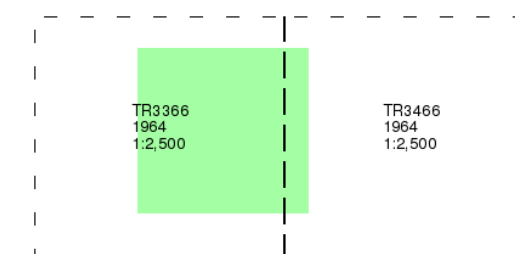
Ordnance Survey Plan

Published 1964

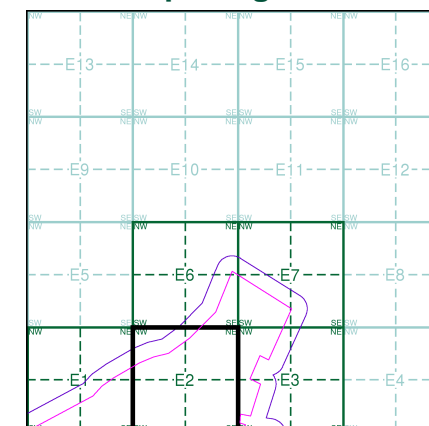
Source map scale - 1:2,500

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

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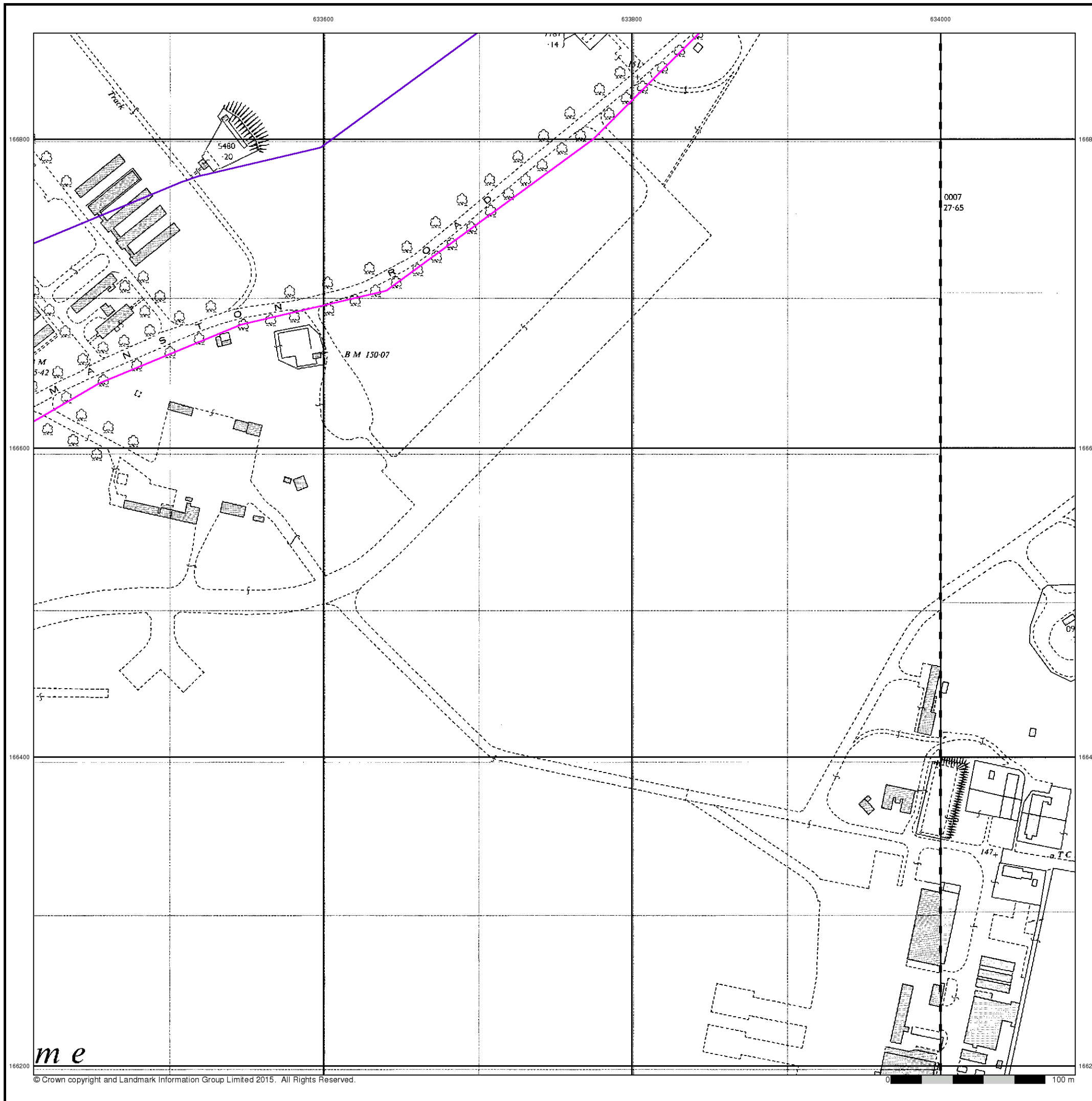


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Site Details

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me

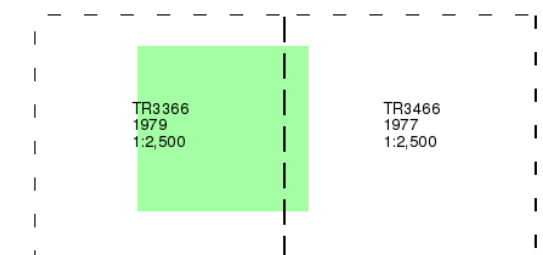
Additional SIMs

Published 1977 - 1979

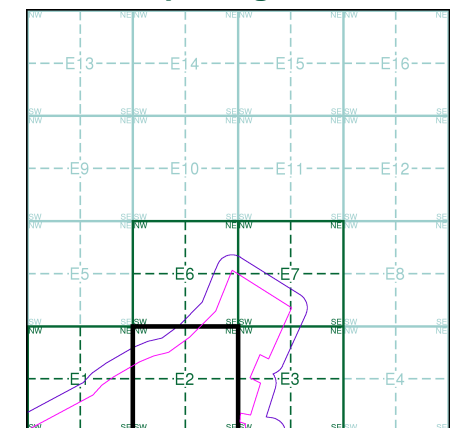
Source map scale - 1:2,500

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Historical Map - Segment E2

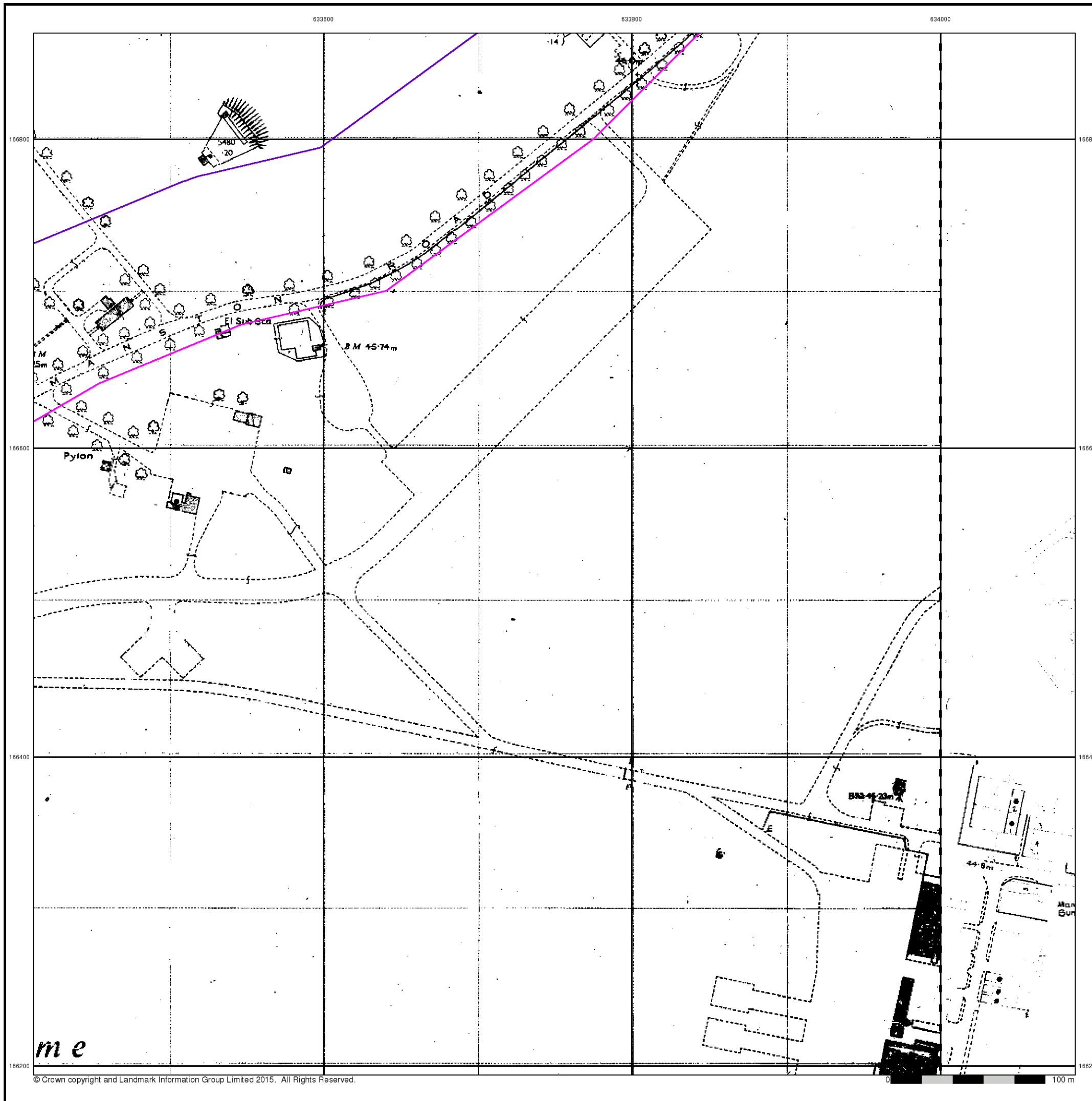


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me

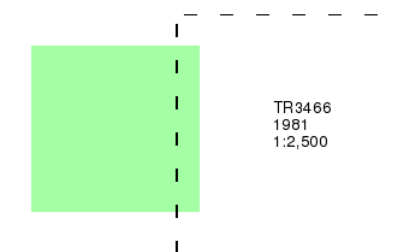
Ordnance Survey Plan

Published 1981

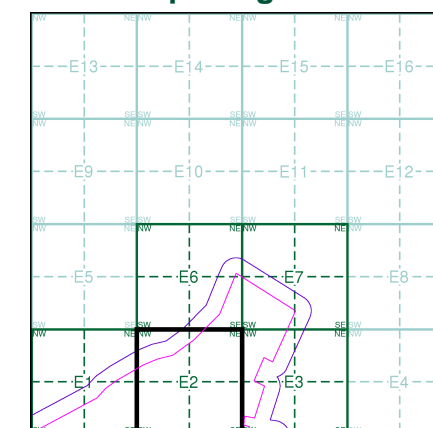
Source map scale - 1:2,500

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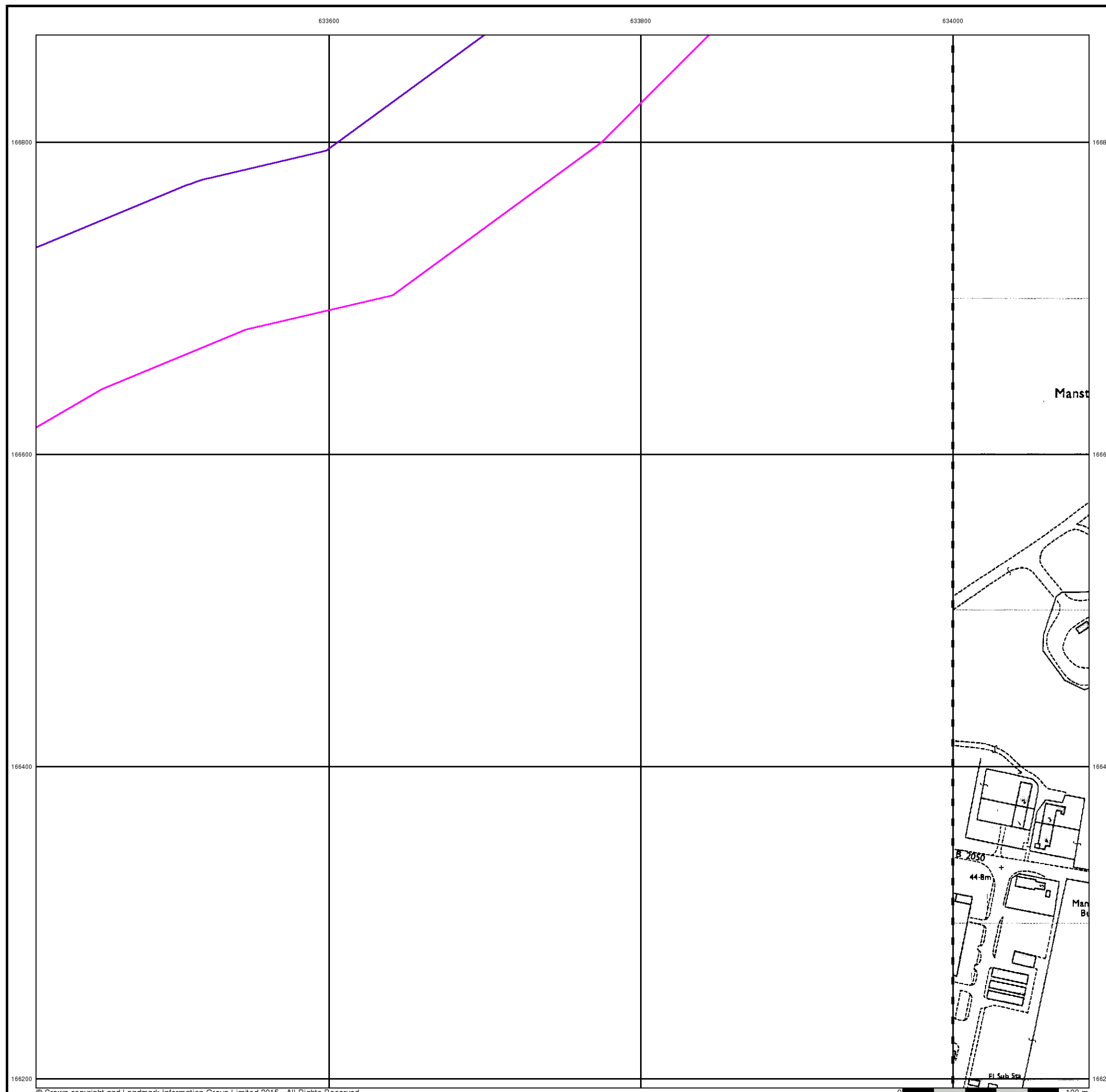


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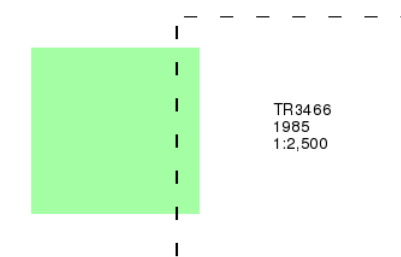
Ordnance Survey Plan

Published 1985

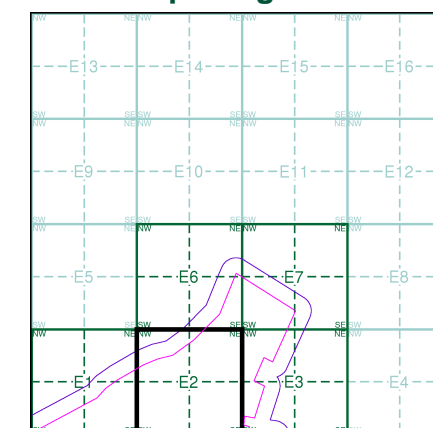
Source map scale - 1:2,500

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

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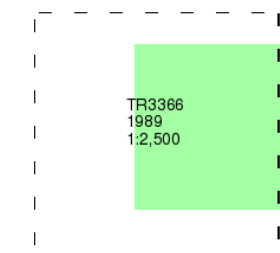
Additional SIMs

Published 1989

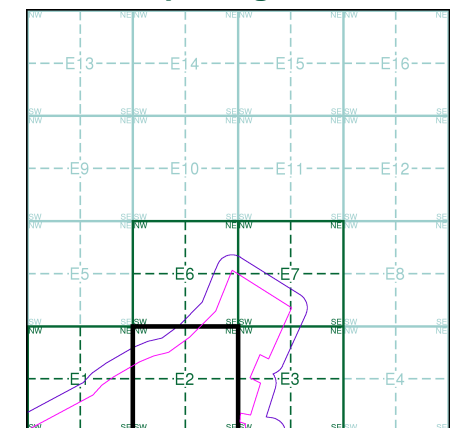
Source map scale - 1:2,500

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Historical Map - Segment E2

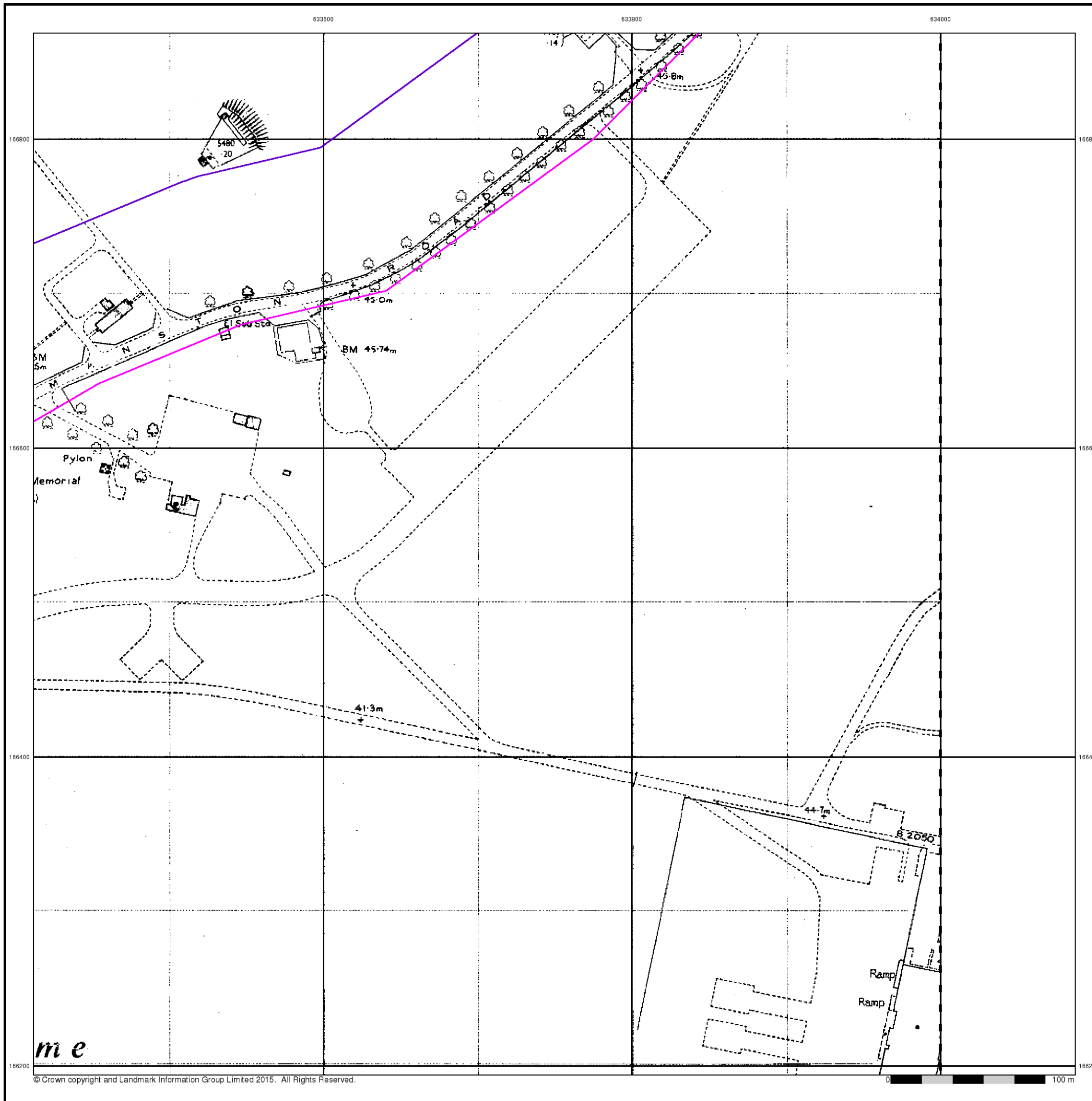


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me

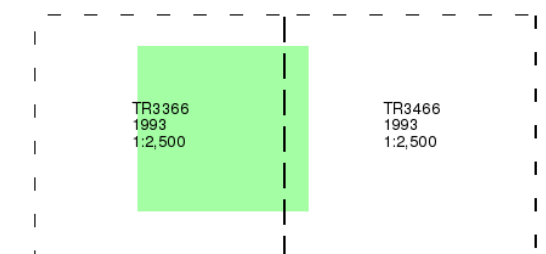
Large-Scale National Grid Data

Published 1993

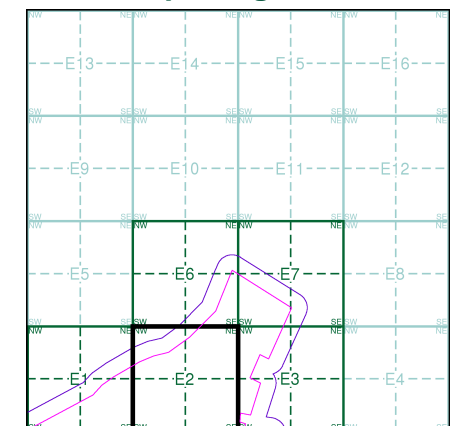
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E2

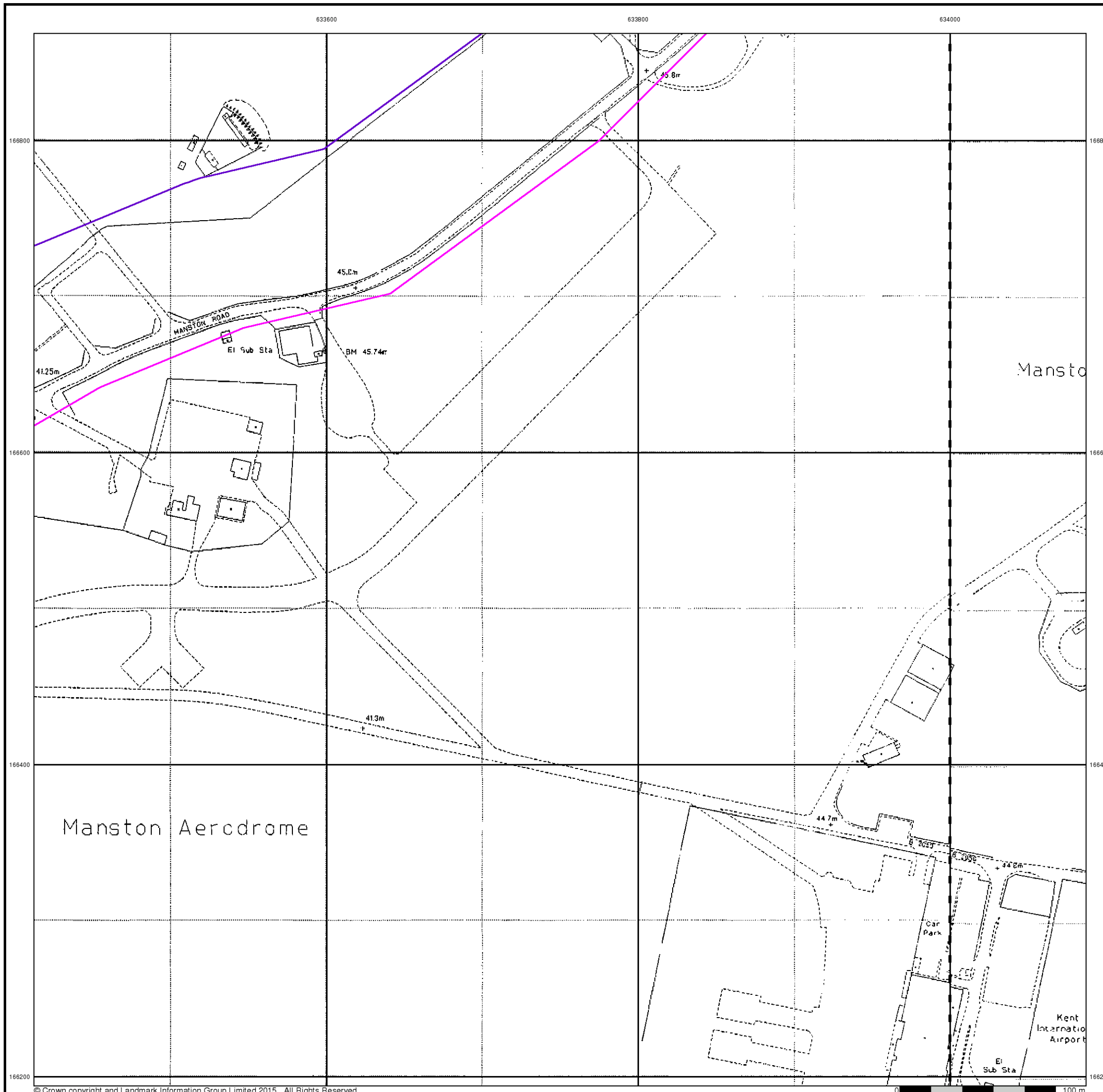


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
Co. Boro. Bdy.
County Burgh Boundary (Scotland)
Boundary Post or Stone **Police Call Box**
B.R. **Bridle Road** **P** **Pump**
E.P. **Electricity Pylon** **S.P.** **Signal Post**
F.B. **Foot Bridge** **Sl.** **Sluice**
F.P. **Foot Path** **Sp.** **Spring**
G.P. **Guide Post or Board** **T.C.B.** **Telephone Call Box**
M.S. **Mile Stone** **Tr.** **Trough**
M.P. M.R. **Mooring Post or Ring** **W** **Well**

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH **Beer House** **P** **Pillar, Pole or Post**
BP, BS **Boundary Post or Stone** **PO** **Post Office**
Cn, C **Capstan, Crane** **PC** **Public Convenience**
Chy **Chimney** **PH** **Public House**
D Fn **Drinking Fountain** **Pp** **Pump**
EI P **Electricity Pillar or Post** **SB, S Br** **Signal Box or Bridge**
FAP **Fire Alarm Pillar** **SP, SL** **Signal Post or Light**
FB **Foot Bridge** **Spr** **Spring**
GP **Guide Post** **Tk** **Tank or Track**
H **Hydrant or Hydraulic** **TCB** **Telephone Call Box**
LC **Level Crossing** **TCP** **Telephone Call Post**
MH **Manhole** **Tr** **Trough**
MP **Mile Post or Mooring Post** **Wr Pt, Wr T** **Water Point, Water Tap**
MS **Mile Stone** **W** **Well**
NTL **Normal Tidal Limit** **Wd Pp** **Wind Pump**

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

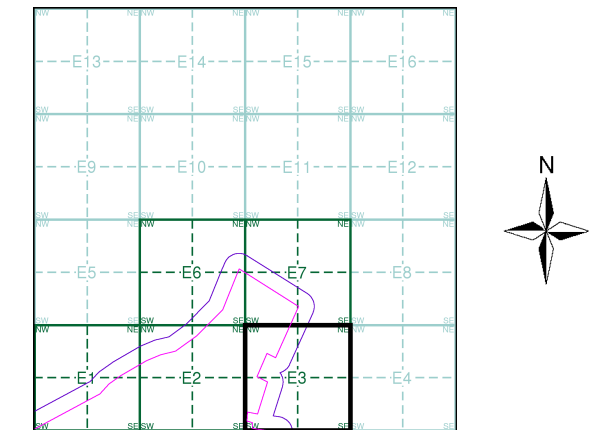
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
B.M. 231.60m **Bench Mark** **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks **Barracks** **P** **Pillar, Pole or Post**
Bty **Battery** **PO** **Post Office**
Cemy **Cemetery** **PC** **Public Convenience**
Chy **Chimney** **Pp** **Pump**
Cis **Cistern** **Ppg Sta** **Pumping Station**
Dismtd Rly **Dismantled Railway** **PW** **Place of Worship**
EI Gen Sta **Electricity Generating Station** **Sewage Ppg Sta** **Sewage Pumping Station**
EI P **Electricity Pole, Pillar** **SB, S Br** **Signal Box or Bridge**
EI Sub Sta **Electricity Sub Station** **SP, SL** **Signal Post or Light**
FB **Filter Bed** **Spr** **Spring**
Fn / D Fn **Fountain / Drinking Ftn.** **Tk** **Tank or Track**
Gas Gov **Gas Valve Compound** **Tr** **Trough**
GVC **Gas Governor** **Wd Pp** **Wind Pump**
GP **Guide Post** **Wr Pt, Wr T** **Water Point, Water Tap**
MH **Manhole** **Wks** **Works (building or area)**
MP, MS **Mile Post or Mile Stone** **W** **Well**



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1894	2
Kent	1:2,500	1896	3
Kent	1:2,500	1907	4
Kent	1:2,500	1939	5
Ordnance Survey Plan	1:2,500	1964	6
Additional SIMs	1:2,500	1977	7
Ordnance Survey Plan	1:2,500	1981	8
Ordnance Survey Plan	1:2,500	1985	9
Large-Scale National Grid Data	1:2,500	1993	10

Historical Map - Segment E3



Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



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

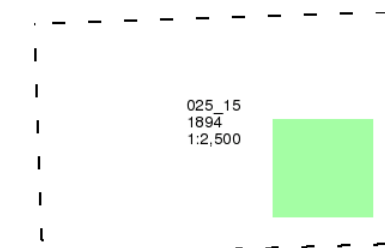
Kent

Published 1894

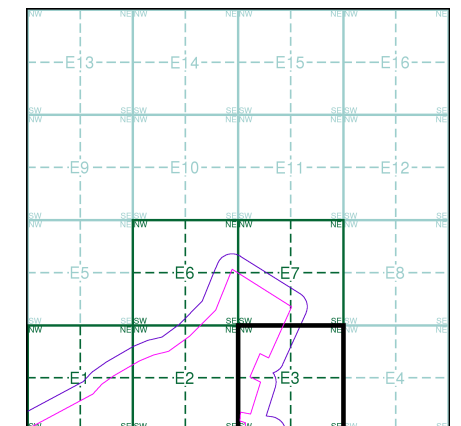
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E3

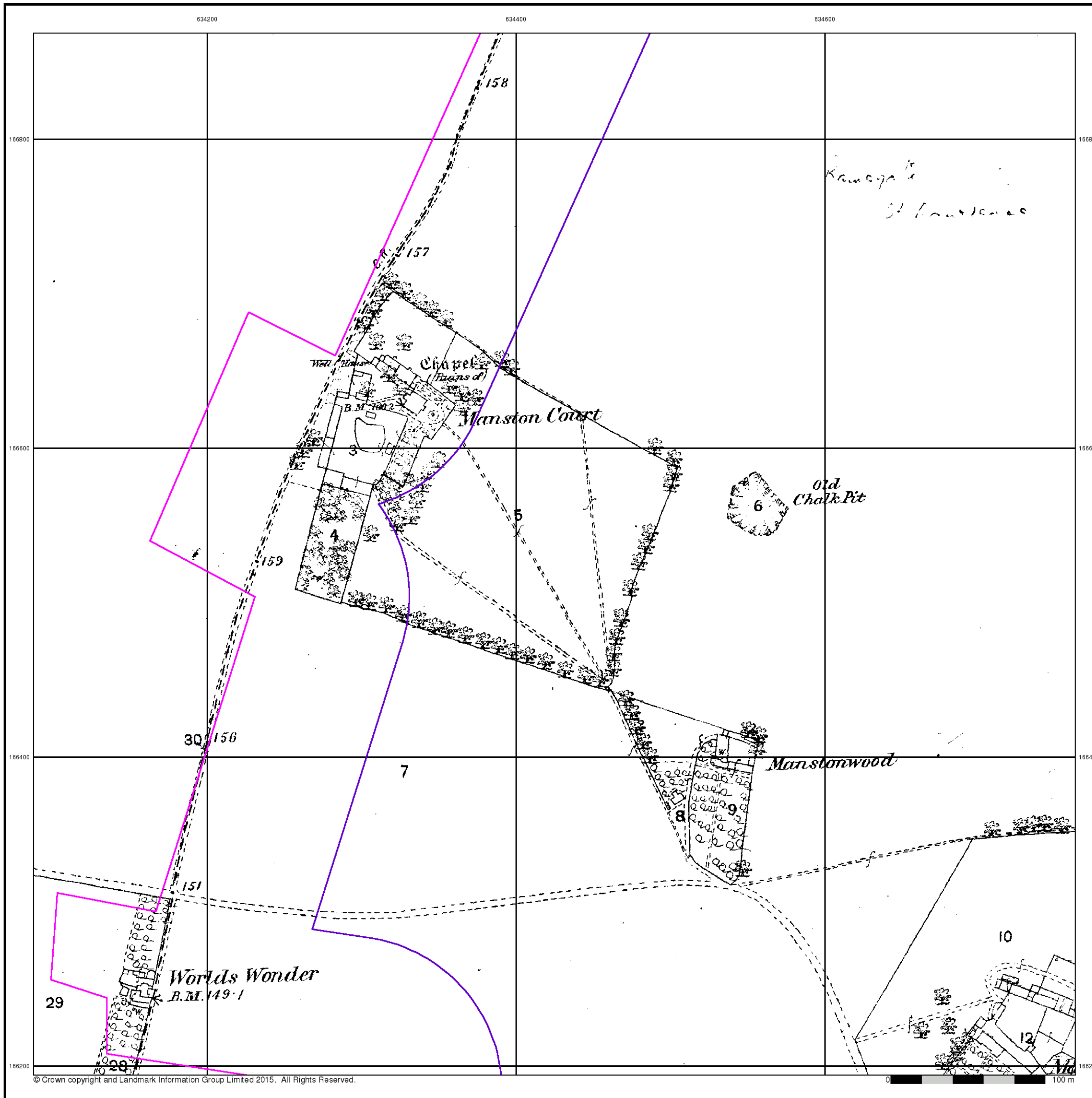


Order Details

Order Number: 82787389_1_1
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Kent International Airport Ltd, Kent International Airport,
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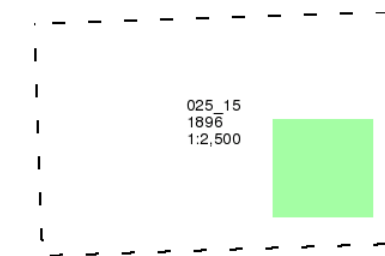
Kent

Published 1896

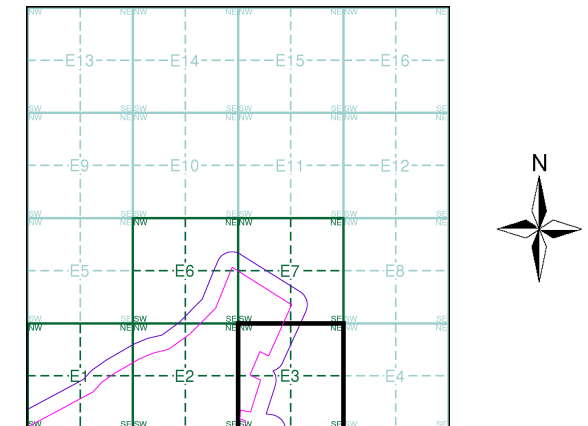
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)



Historical Map - Segment E3

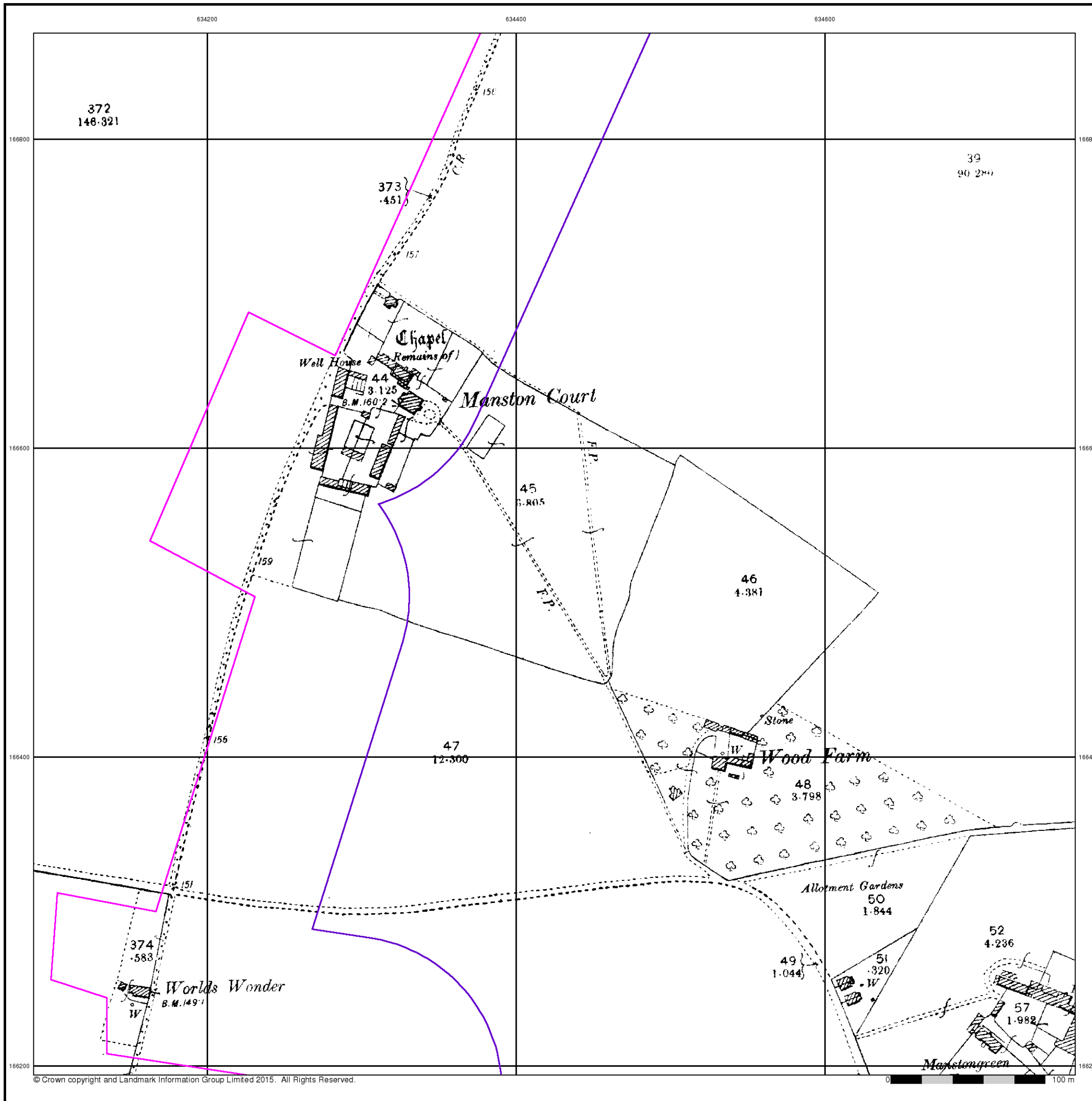


Order Details

Order Number: 82787389_1_1
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 National Grid Reference: 634090, 167070
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 Site Area (Ha): 306.39
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



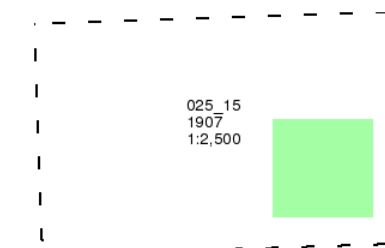
Kent

Published 1907

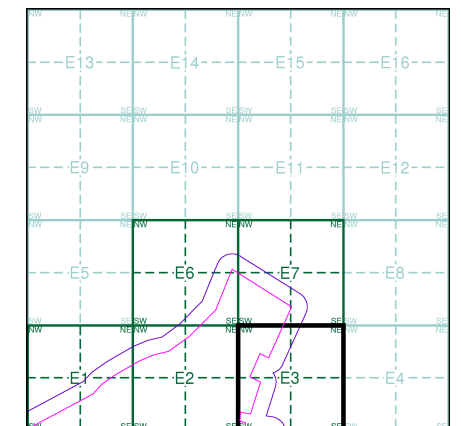
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E3

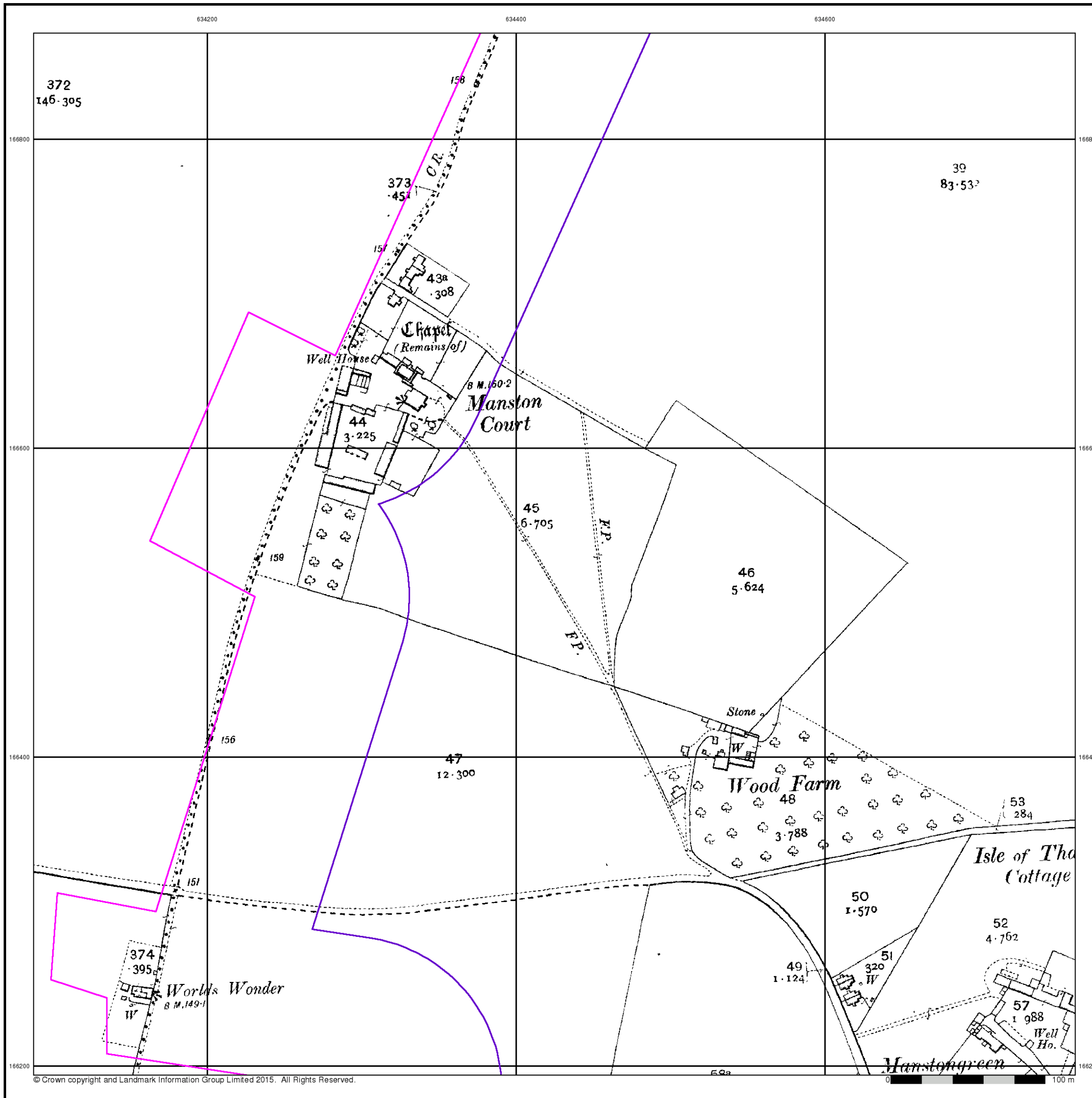


Order Details

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 National Grid Reference: 634090, 167070
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 Site Area (Ha): 306.39
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



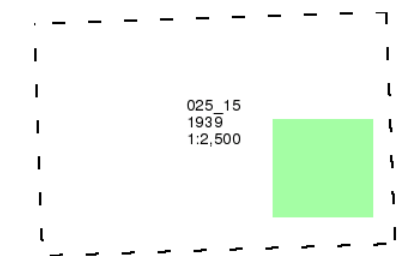
Kent

Published 1939

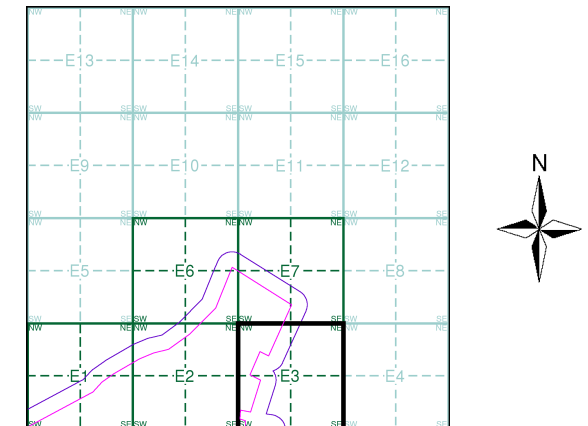
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E3

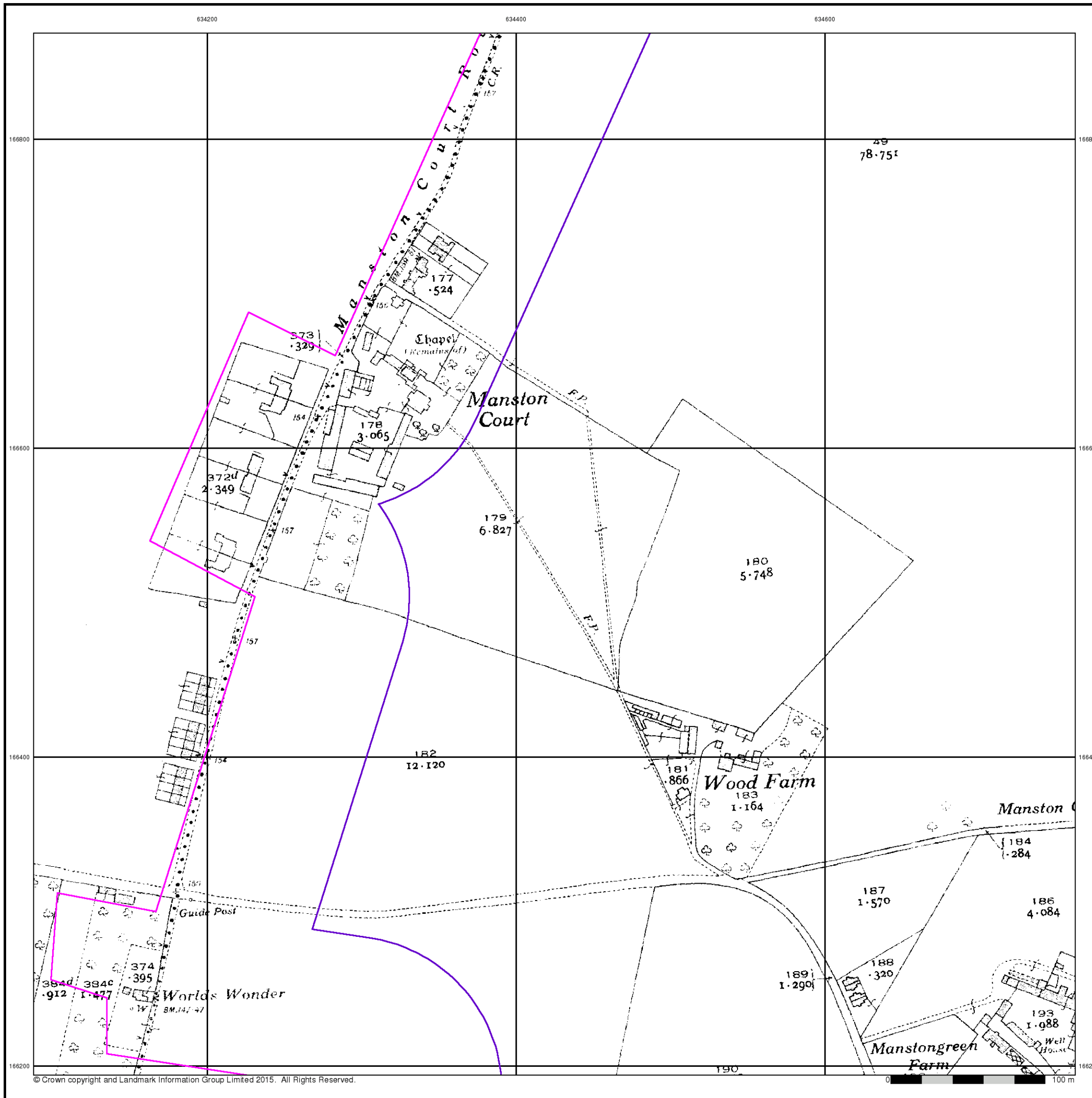


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 National Grid Reference: 634090, 167070
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 Site Area (Ha): 306.39
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



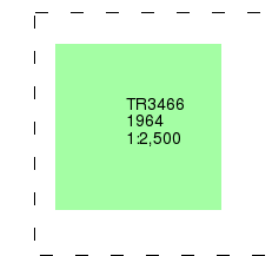
Ordnance Survey Plan

Published 1964

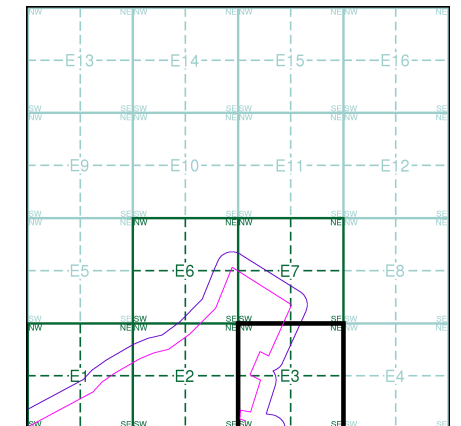
Source map scale - 1:2,500

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

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Historical Map - Segment E3



Order Details

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 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



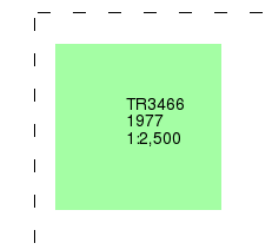
Additional SIMs

Published 1977

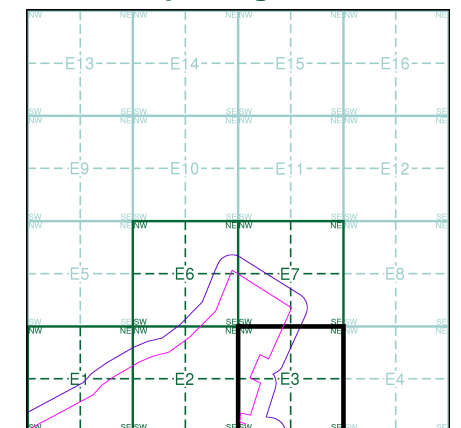
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E3



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Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



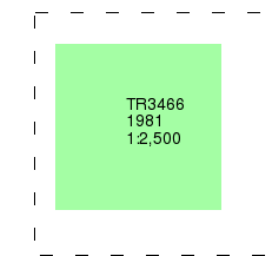
Ordnance Survey Plan

Published 1981

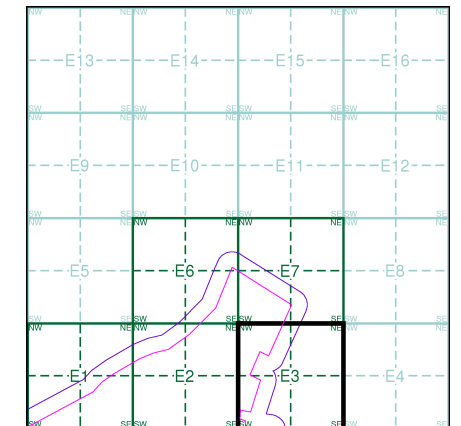
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E3



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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



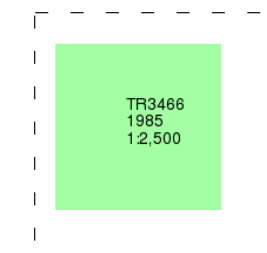
Ordnance Survey Plan

Published 1985

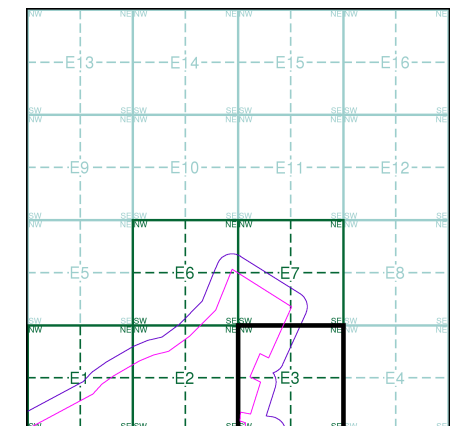
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E3



Order Details

Order Number: 82787389_1_1
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



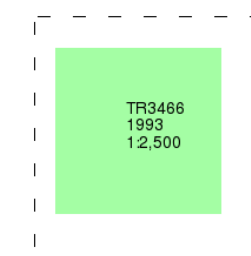
Large-Scale National Grid Data

Published 1993

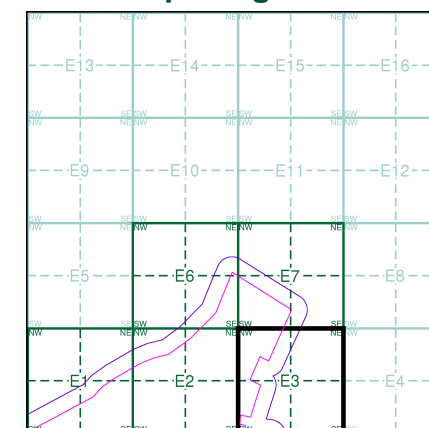
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E3

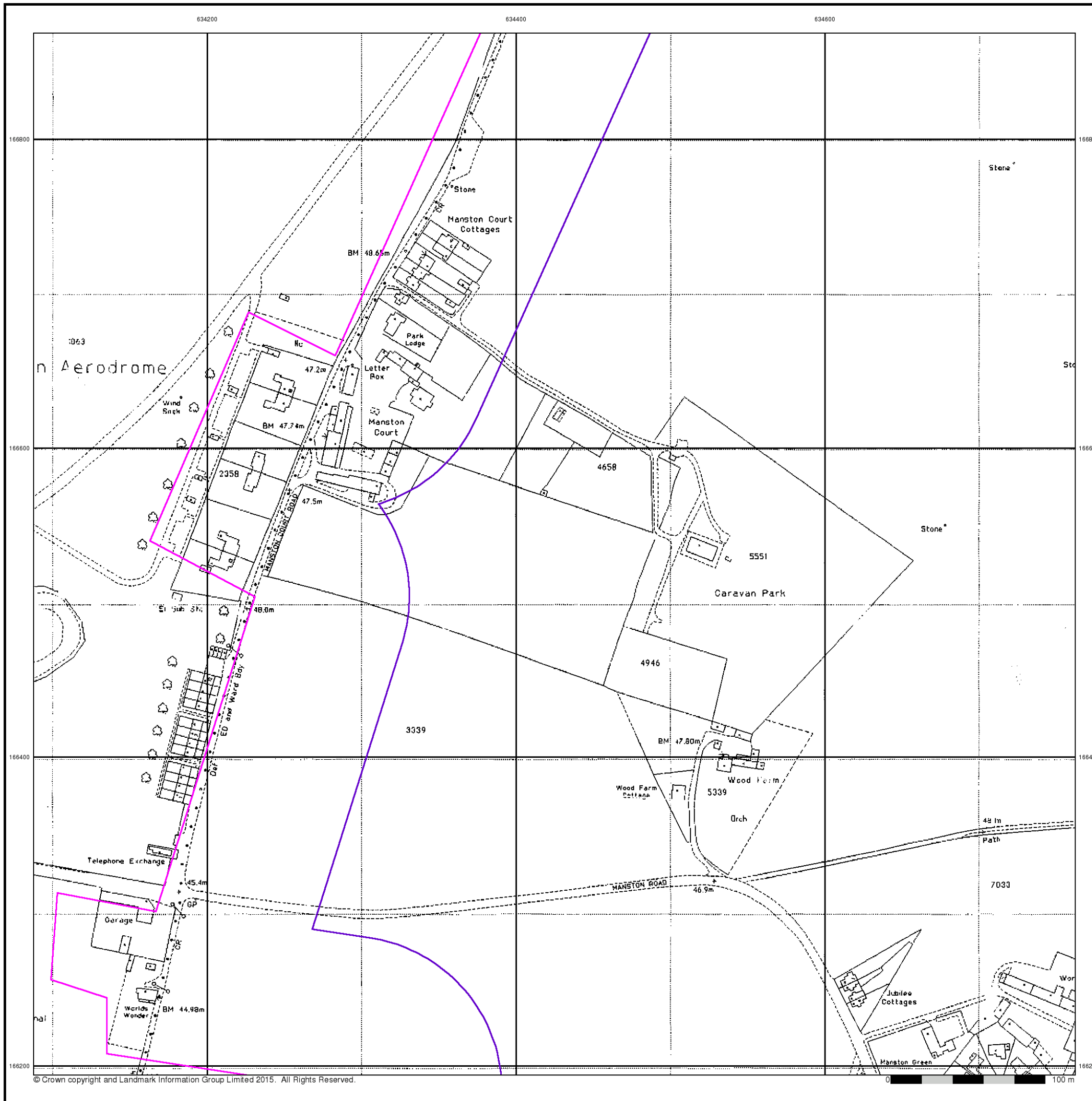


Order Details

Order Number: 82787389_1_1
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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
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Sloping Masonry **Flat Rock**
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Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
County Burgh Boundary (Scotland)
Co. Boro. Bdy.
Co. Burgh Bdy.
BP BS Boundary Post or Stone **P.C.B** Police Call Box
B.R. Bridle Road **P** Pump
E.P Electricity Pylon **S.P** Signal Post
F.B. Foot Bridge **SL** Sluice
F.P. Foot Path **Sp.** Spring
G.P Guide Post or Board **T.C.B** Telephone Call Box
M.S Mile Stone **Tr.** Trough
M.P M.R Mooring Post or Ring **W** Well

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
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Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
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Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH Beer House **P** Pillar, Pole or Post
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D Fn Drinking Fountain **Pp** Pump
EI P Electricity Pillar or Post **SB, S Br** Signal Box or Bridge
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H Hydrant or Hydraulic **TCB** Telephone Call Box
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MS Mile Stone **W** Well
NTL Normal Tidal Limit **Wd Pp** Wind Pump

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

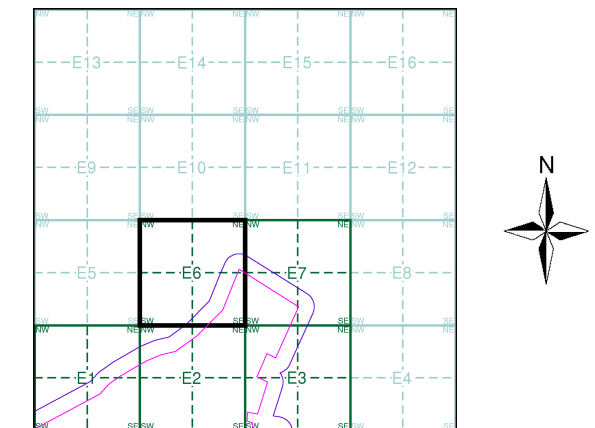
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
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Direction of water flow **Triangulation Station** **Antiquity (site of)**
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B.M. 231.60m Bench Mark **Buildings with Building Seed**
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Civil parish/community boundary
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Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks Barracks **P** Pillar, Pole or Post
Bty Battery **PO** Post Office
Cemy Cemetery **PC** Public Convenience
Chy Chimney **Pp** Pump
Cis Cistern **Ppg Sta** Pumping Station
Dismtd Rly Dismantled Railway **PW** Place of Worship
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta** Sewage Pumping Station
EI P Electricity Pole, Pillar **SB, S Br** Signal Box or Bridge
EI Sub Sta Electricity Sub Station **SP, SL** Signal Post or Light
FB Filter Bed **Spr** Spring
Fn / D Fn Fountain / Drinking Ftn. **Tk** Tank or Track
Gas Gov Gas Valve Compound **Tr** Trough
GVC Gas Governor **Wd Pp** Wind Pump
GP Guide Post **Wr Pt, Wr T** Water Point, Water Tap
MH Manhole **Wks** Works (building or area)
MP, MS Mile Post or Mile Stone **W** Well



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1894	2
Kent	1:2,500	1896	3
Kent	1:2,500	1907	4
Kent	1:2,500	1939	5
Ordnance Survey Plan	1:2,500	1963 - 1964	6
Additional SIMs	1:2,500	1963 - 1979	7
Ordnance Survey Plan	1:2,500	1981 - 1983	8
Ordnance Survey Plan	1:2,500	1985	9
Additional SIMs	1:2,500	1989	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:2,500	1995	12

Historical Map - Segment E6



Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



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

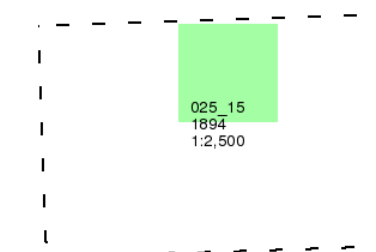
Kent

Published 1894

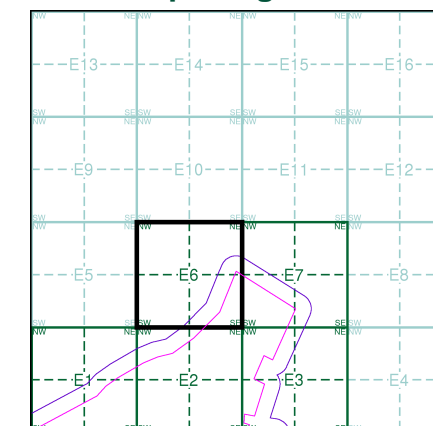
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E6

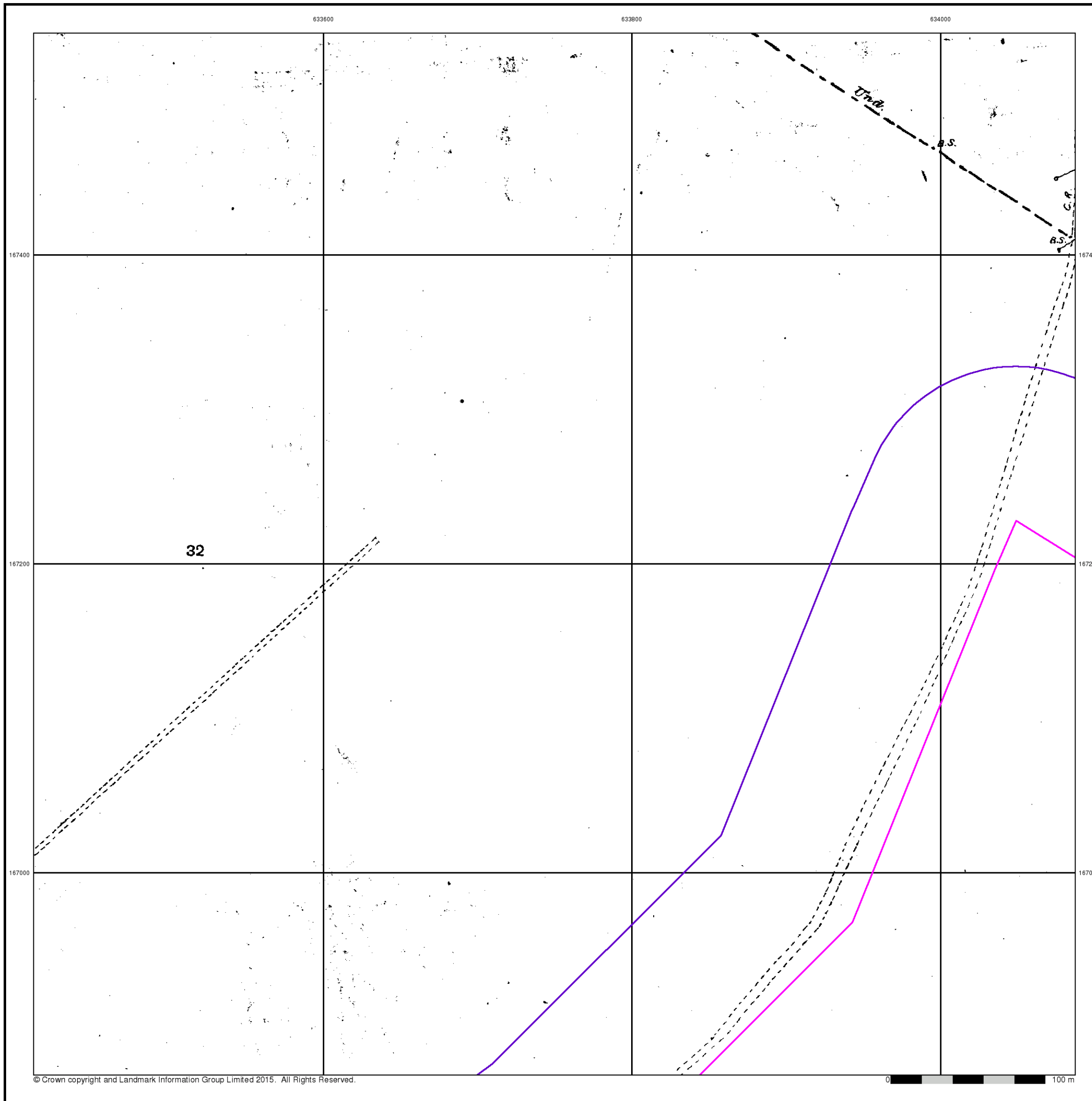


Order Details

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Site Details

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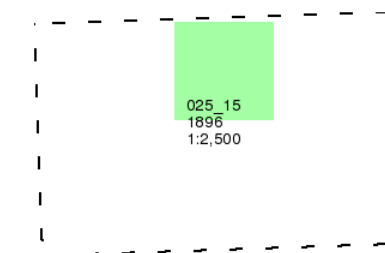
Kent

Published 1896

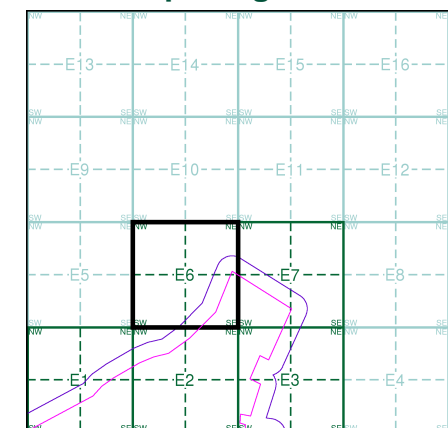
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E6

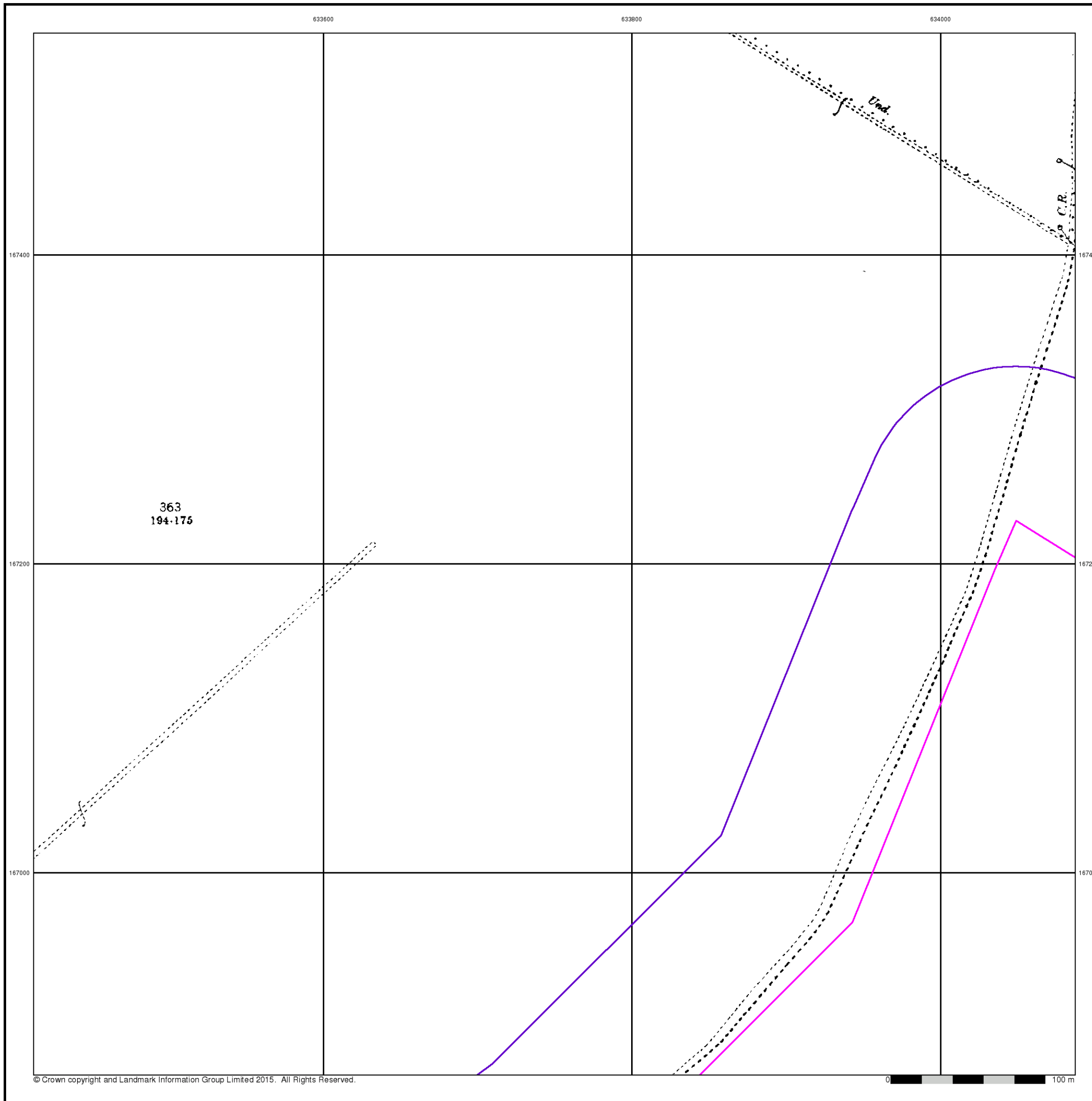


Order Details

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 Slice: E
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Site Details

Kent International Airport Ltd, Kent International Airport,
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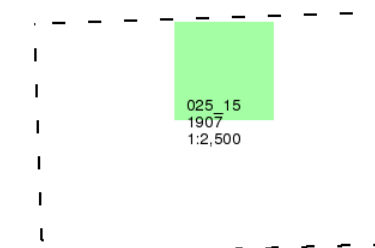
Kent

Published 1907

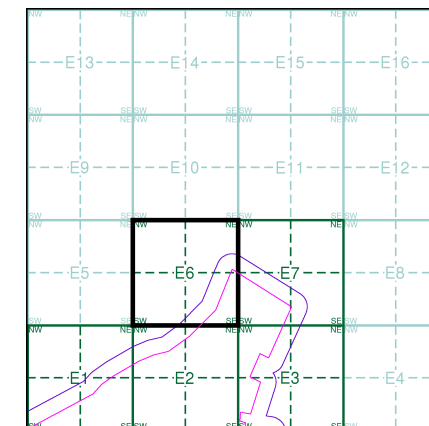
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E6

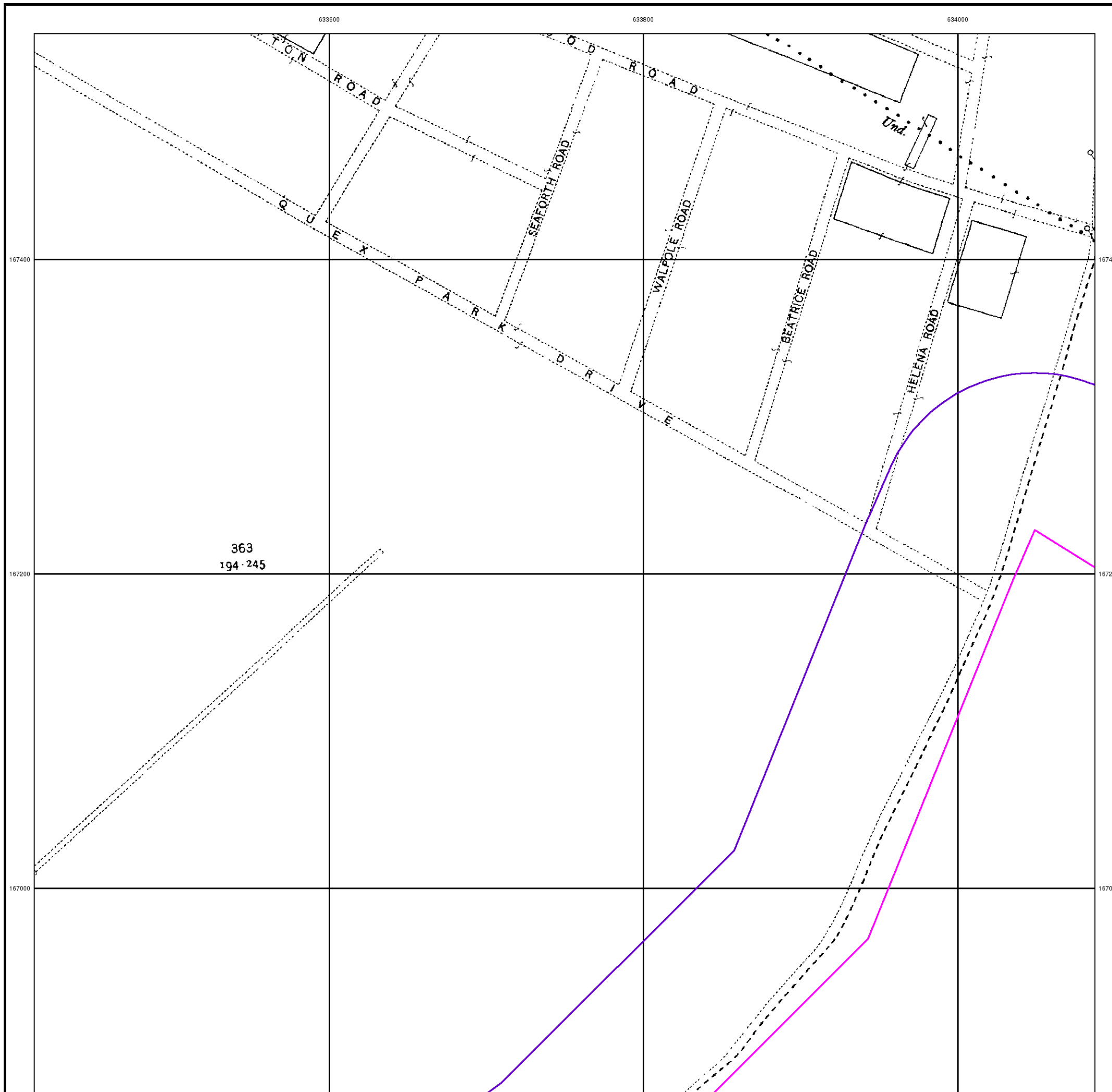


Order Details

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Site Details

Kent International Airport Ltd, Kent International Airport,
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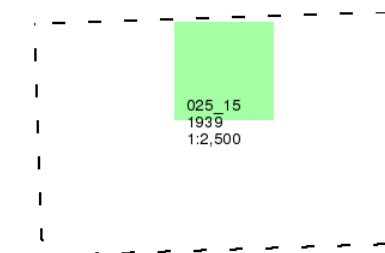
Kent

Published 1939

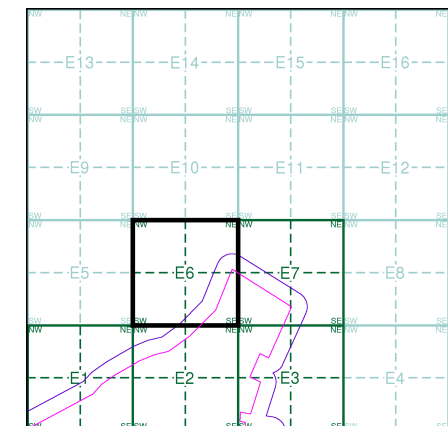
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment E6

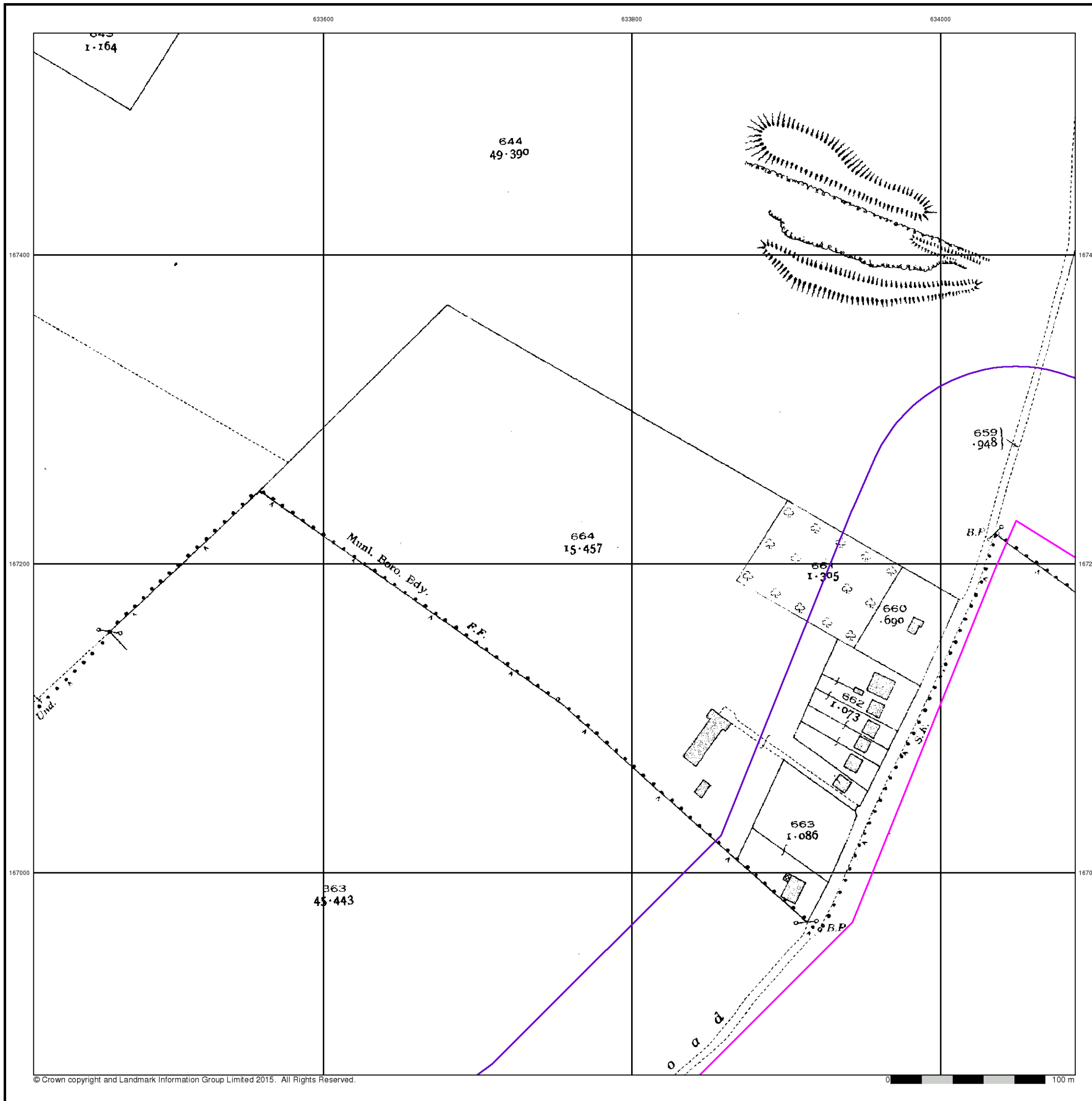


Order Details

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Kent International Airport Ltd, Kent International Airport,
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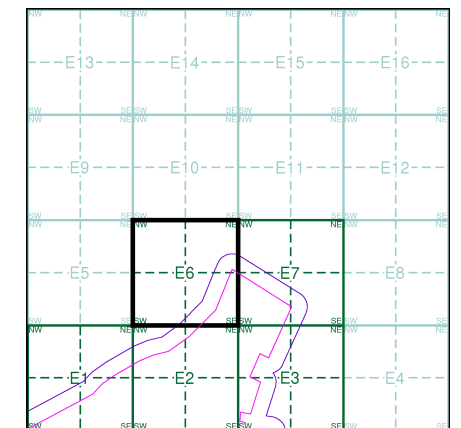
Ordnance Survey Plan
Published 1963 - 1964
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TR3367 1963 1:2,500	TR3467 1963 1:2,500
TR3366 1964 1:2,500	TR3466 1964 1:2,500

Historical Map - Segment E6



Order Details

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 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Additional SIMs

Published 1963 - 1979

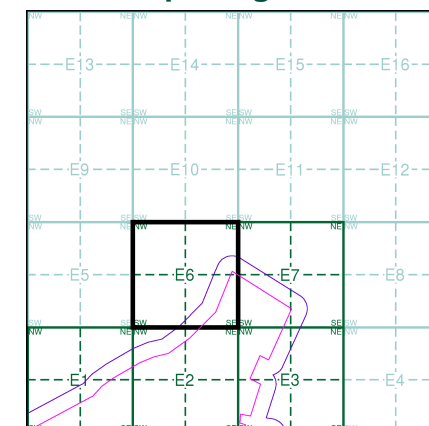
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

	TR3467	
	1963	
	1:2,500	
TR3366		TR3466
1979		1977
1:2,500		1:2,500

Historical Map - Segment E6

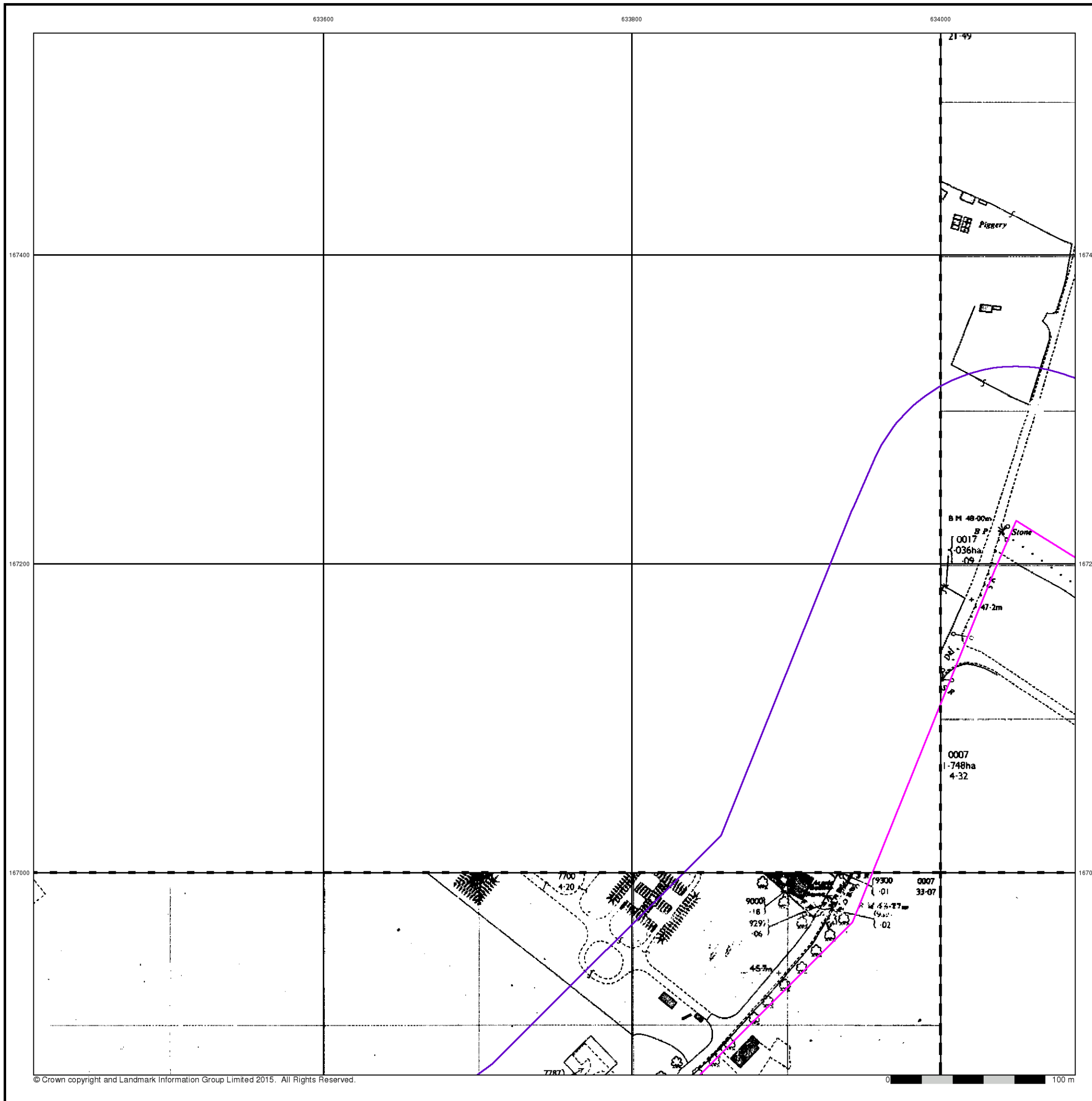


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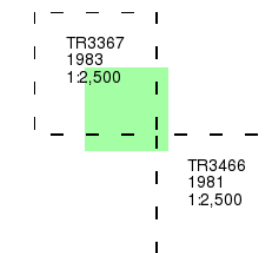
Ordnance Survey Plan

Published 1981 - 1983

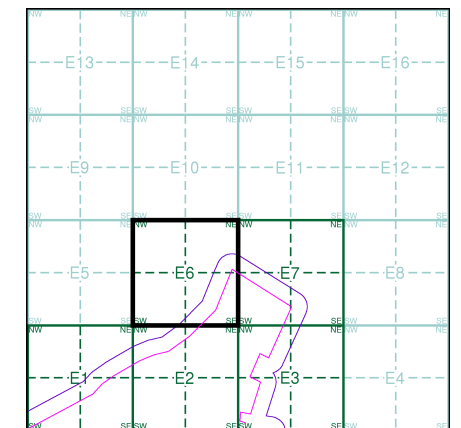
Source map scale - 1:2,500

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

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Historical Map - Segment E6

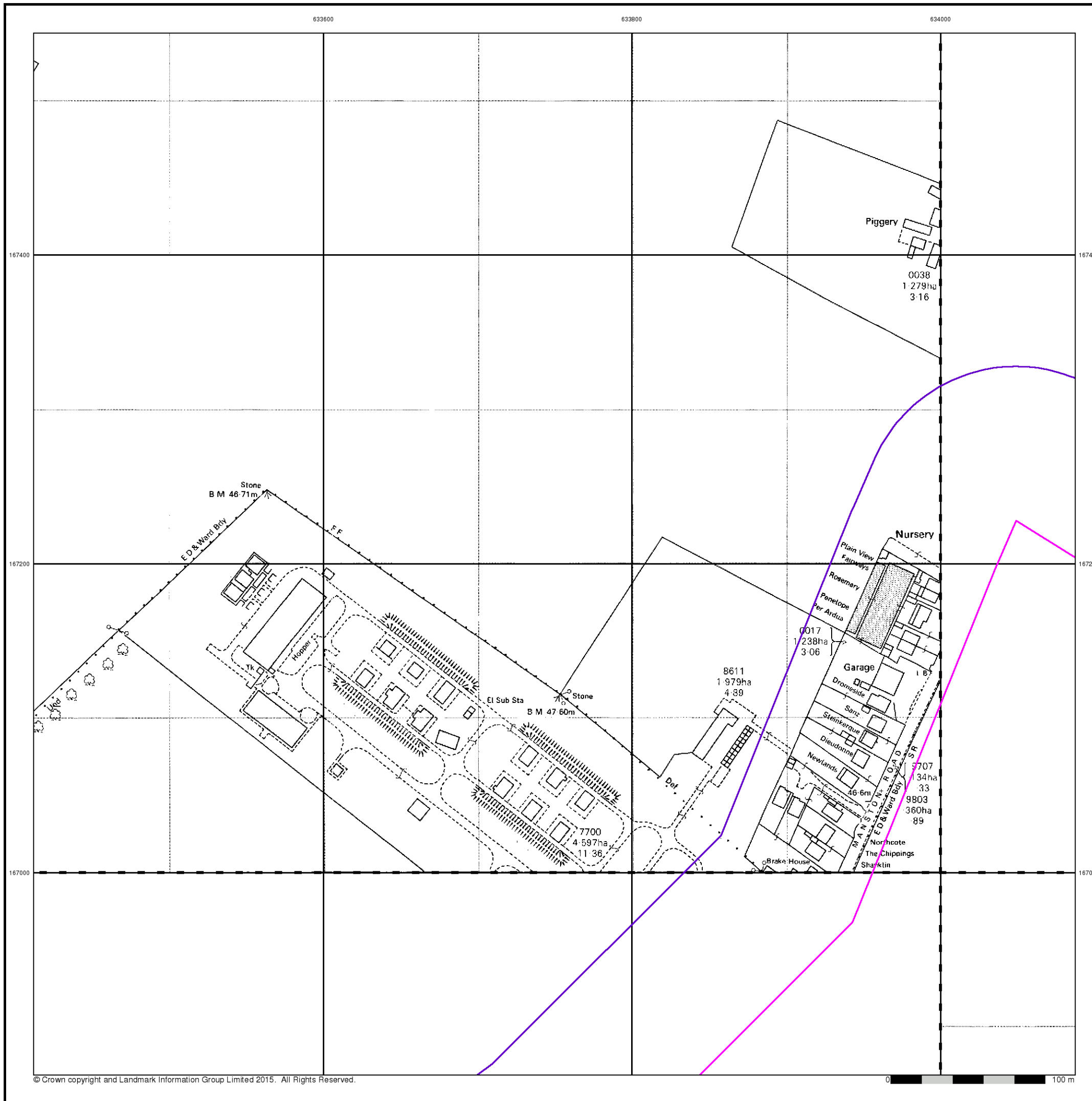


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Site Details

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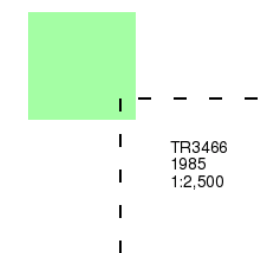
Ordnance Survey Plan

Published 1985

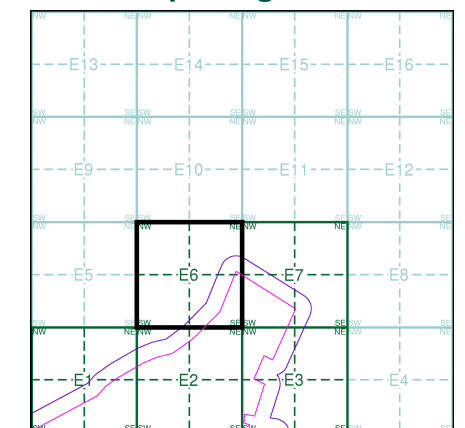
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E6

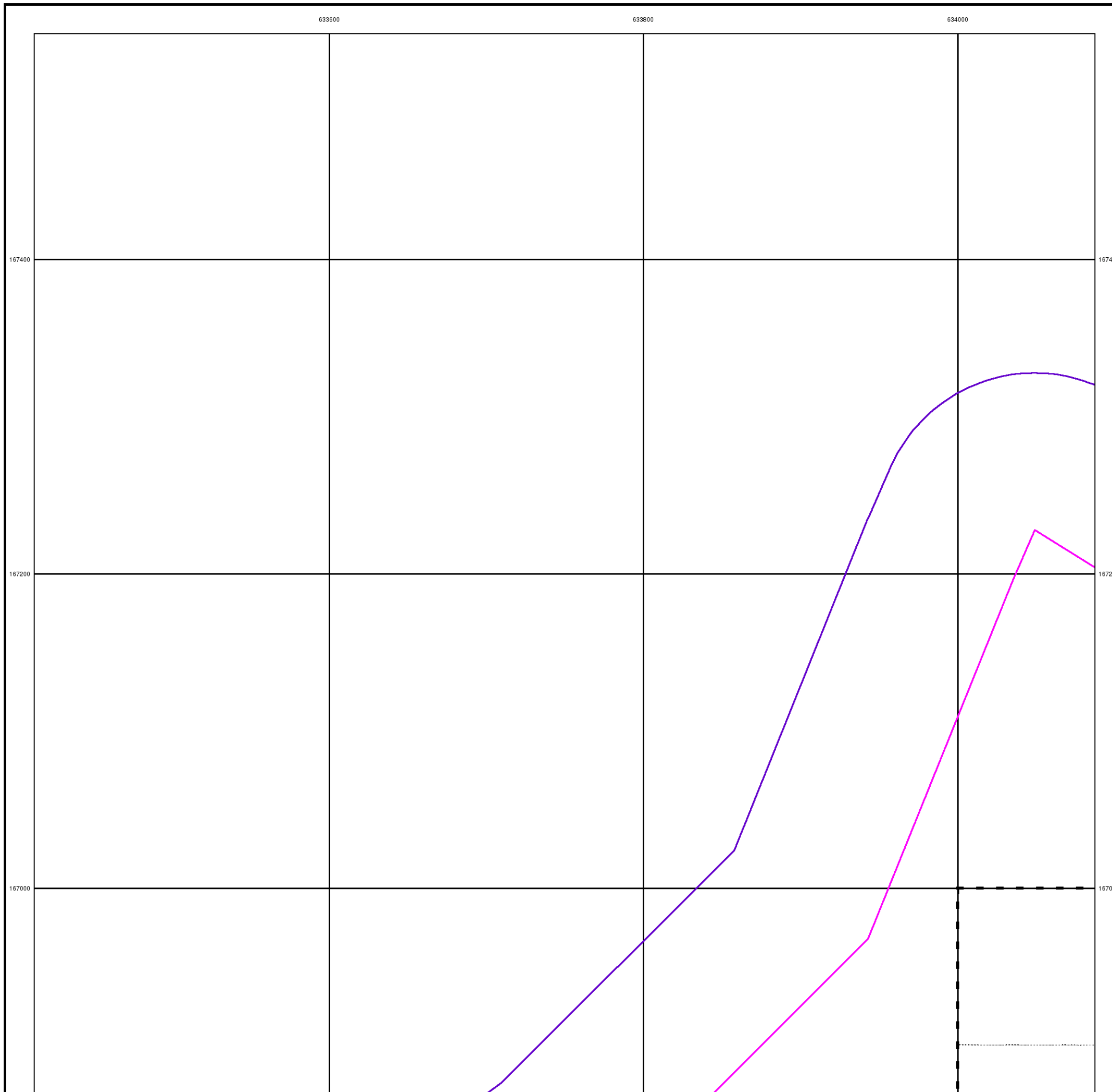


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Kent International Airport Ltd, Kent International Airport,
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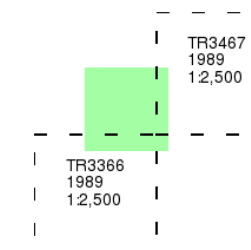
Additional SIMs

Published 1989

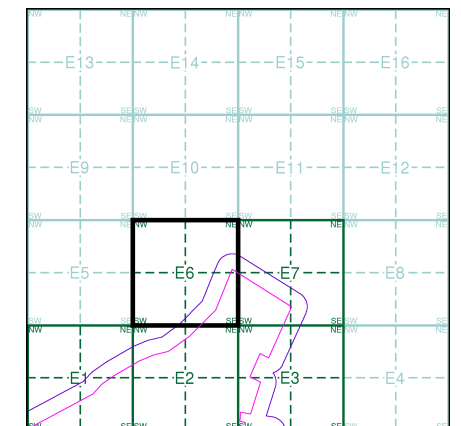
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E6

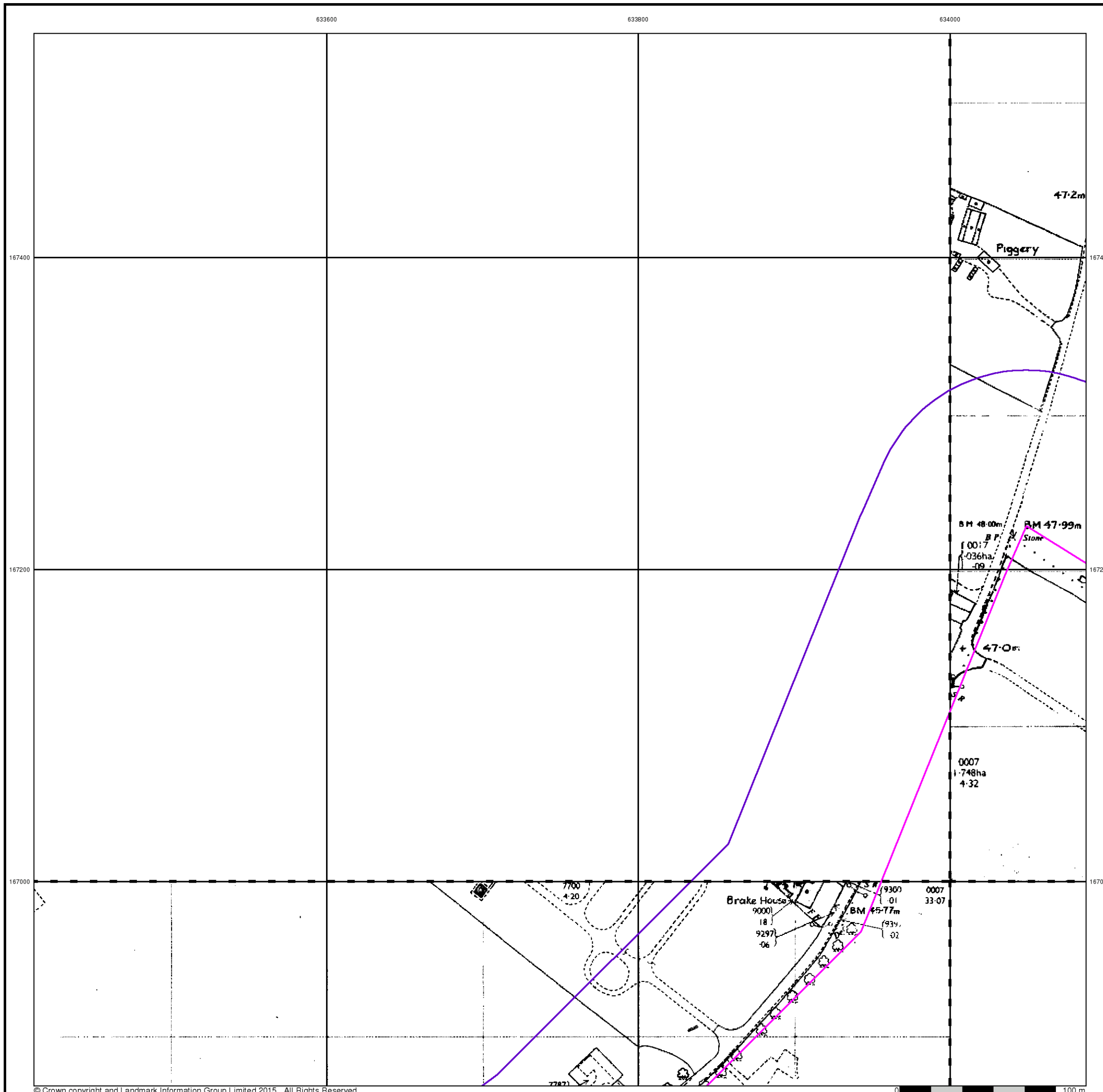


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 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Large-Scale National Grid Data

Published 1993

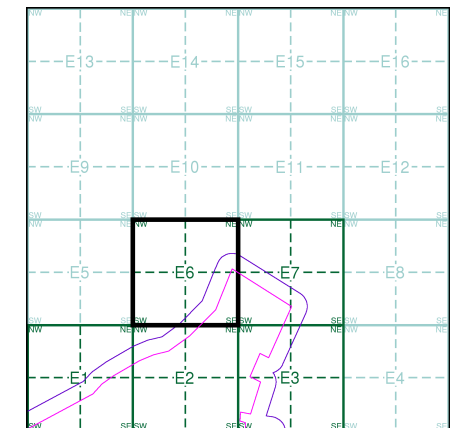
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TR3367	TR3467
1993	1993
12,500	12,500
TR3366	TR3466
1993	1993
12,500	12,500

Historical Map - Segment E6

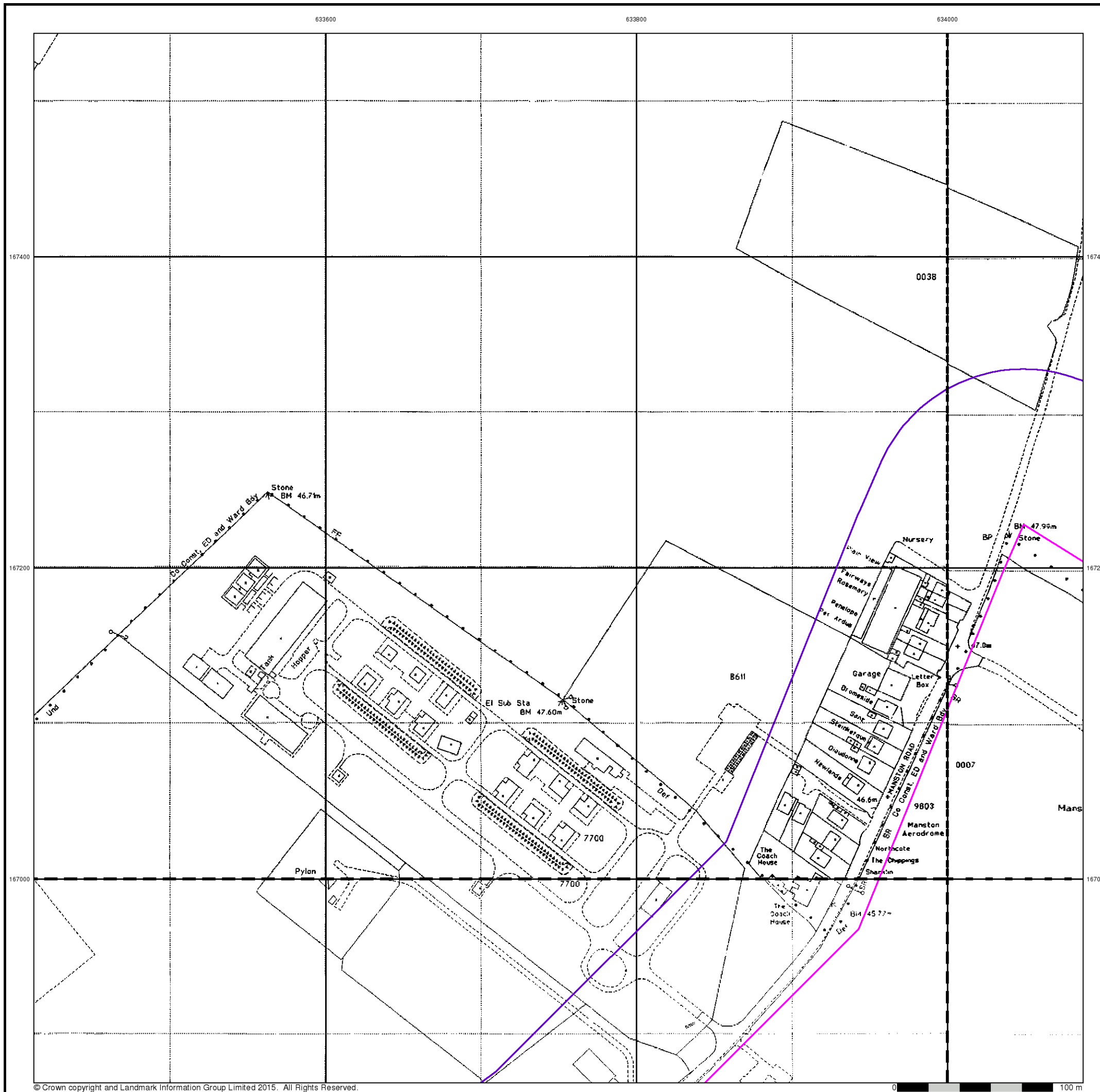


Order Details

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Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



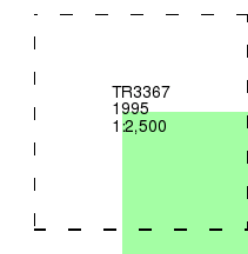
Large-Scale National Grid Data

Published 1995

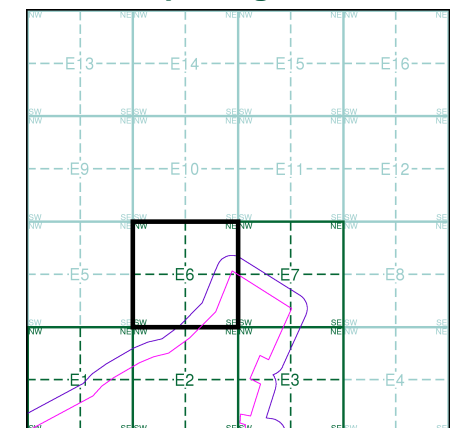
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E6

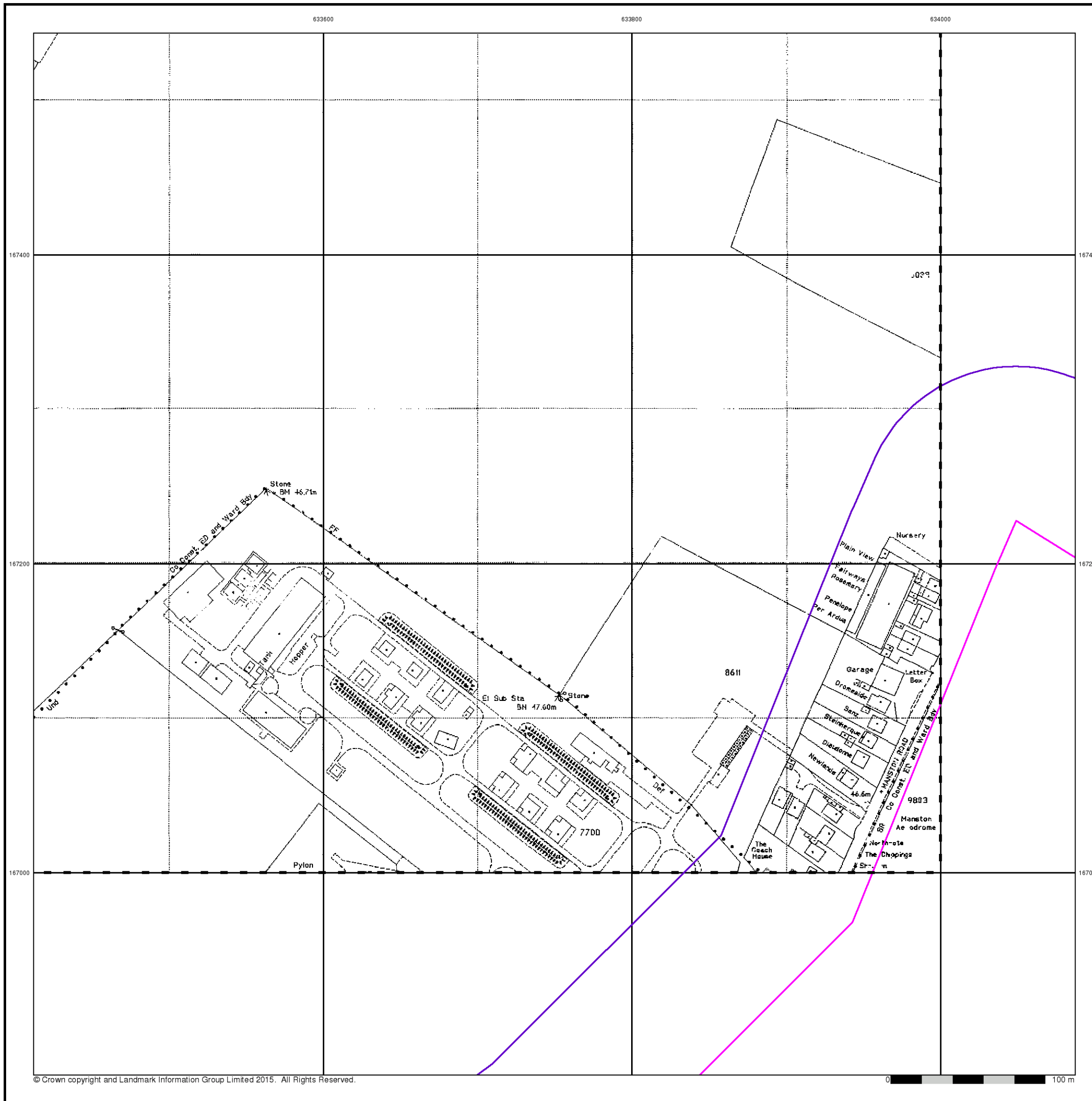


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Historical Mapping Legends

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

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
Co. Boro. Bdy.
County Burgh Boundary (Scotland)
Co. Burgh Bdy.
BP BS Boundary Post or Stone **P.C.B** Police Call Box
B.R. Bridle Road **P** Pump
E.P Electricity Pylon **S.P** Signal Post
F.B. Foot Bridge **SL** Sluice
F.P. Foot Path **Sp.** Spring
G.P Guide Post or Board **T.C.B** Telephone Call Box
M.S Mile Stone **Tr.** Trough
M.P M.R Mooring Post or Ring **W** Well

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

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH Beer House **P** Pillar, Pole or Post
BP, BS Boundary Post or Stone **PO** Post Office
Cn, C Capstan, Crane **PC** Public Convenience
Chy Chimney **PH** Public House
D Fn Drinking Fountain **Pp** Pump
EI P Electricity Pillar or Post **SB, S Br** Signal Box or Bridge
FAP Fire Alarm Pillar **SP, SL** Signal Post or Light
FB Foot Bridge **Spr** Spring
GP Guide Post **Tk** Tank or Track
H Hydrant or Hydraulic **TCB** Telephone Call Box
LC Level Crossing **TCP** Telephone Call Post
MH Manhole **Tr** Trough
MP Mile Post or Mooring Post **Wr Pt, Wr T** Water Point, Water Tap
MS Mile Stone **W** Well
NTL Normal Tidal Limit **Wd Pp** Wind Pump

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

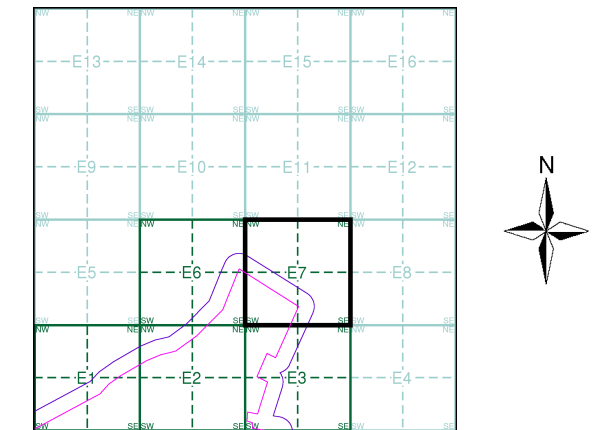
Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
B.M. 231.60m Bench Mark **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks Barracks **P** Pillar, Pole or Post
Bty Battery **PO** Post Office
Cemy Cemetery **PC** Public Convenience
Chy Chimney **Pp** Pump
Cis Cistern **Ppg Sta** Pumping Station
Dismtd Rly Dismantled Railway **PW** Place of Worship
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta** Sewage Pumping Station
EI P Electricity Pole, Pillar **SB, S Br** Signal Box or Bridge
EI Sub Sta Electricity Sub Station **SP, SL** Signal Post or Light
FB Filter Bed **Spr** Spring
Fn / D Fn Fountain / Drinking Ftn. **Tk** Tank or Track
Gas Gov Gas Valve Compound **Tr** Trough
GVC Gas Governor **Wd Pp** Wind Pump
GP Guide Post **Wr Pt, Wr T** Water Point, Water Tap
MH Manhole **Wks** Works (building or area)
MP, MS Mile Post or Mile Stone **W** Well



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1894	2
Kent	1:2,500	1896	3
Kent	1:2,500	1907	4
Kent	1:2,500	1939	5
Ordnance Survey Plan	1:2,500	1963 - 1964	6
Additional SIMs	1:2,500	1963 - 1977	7
Ordnance Survey Plan	1:2,500	1981	8
Ordnance Survey Plan	1:2,500	1985	9
Additional SIMs	1:2,500	1989	10
Large-Scale National Grid Data	1:2,500	1993	11

Historical Map - Segment E7



Order Details

Order Number: 82787389_1_1
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 National Grid Reference: 634090, 167070
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Site Details

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

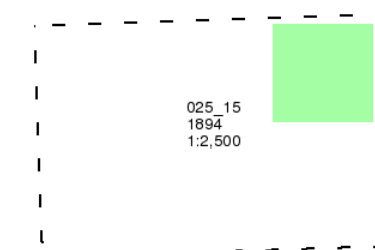
Kent

Published 1894

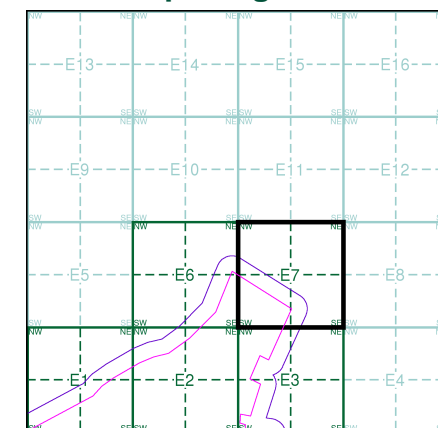
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E7

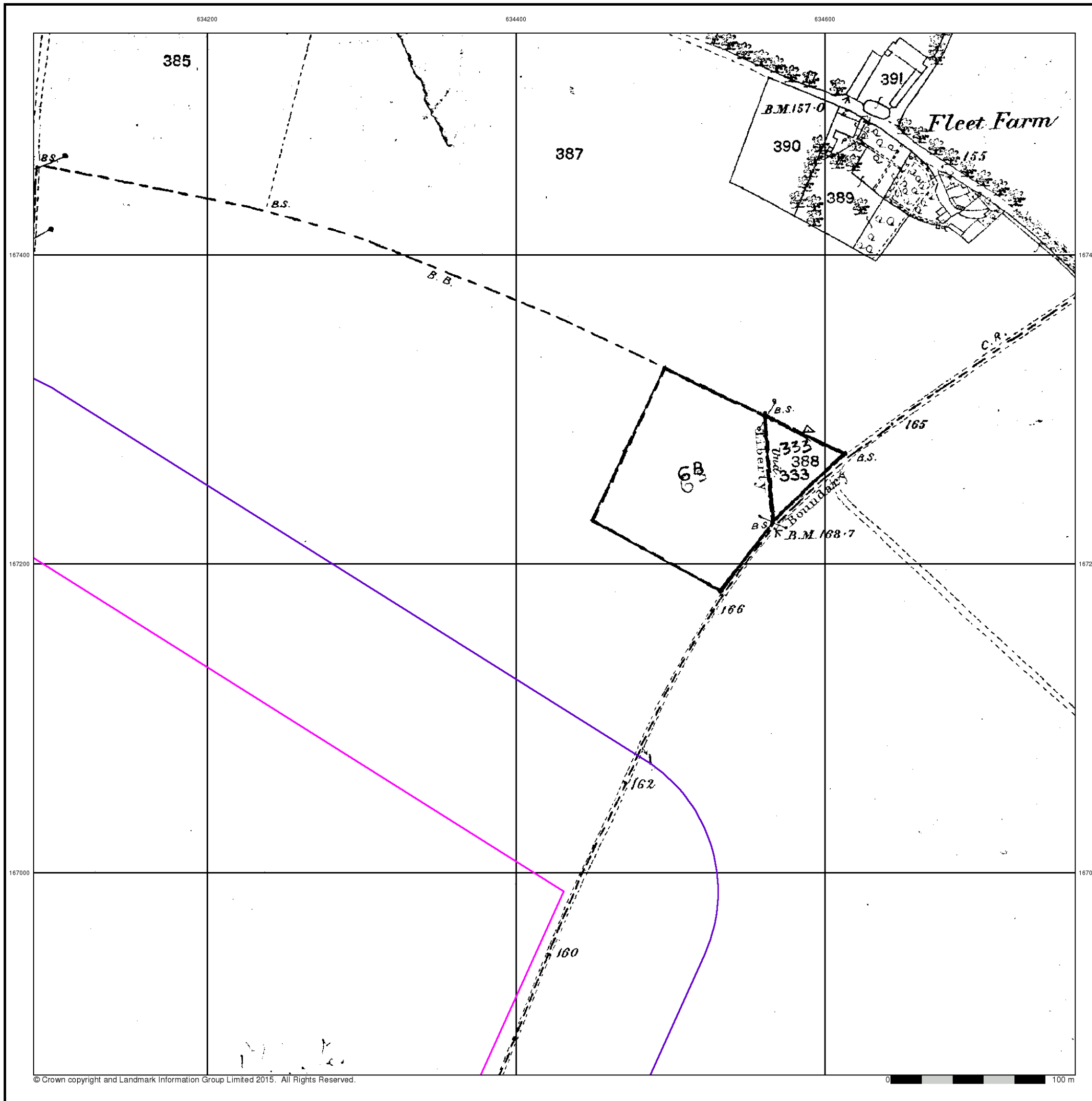


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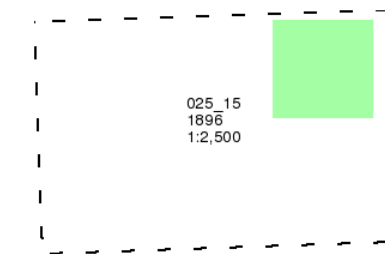
Kent

Published 1896

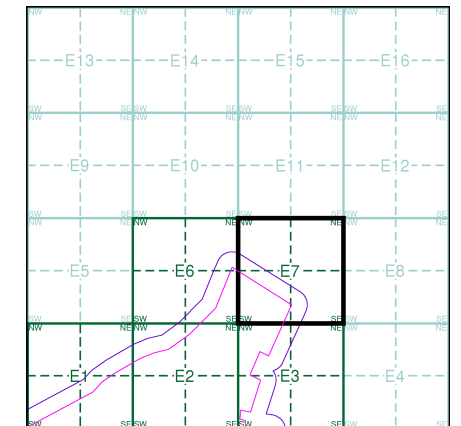
Source map scale - 1:2,500

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Historical Map - Segment E7

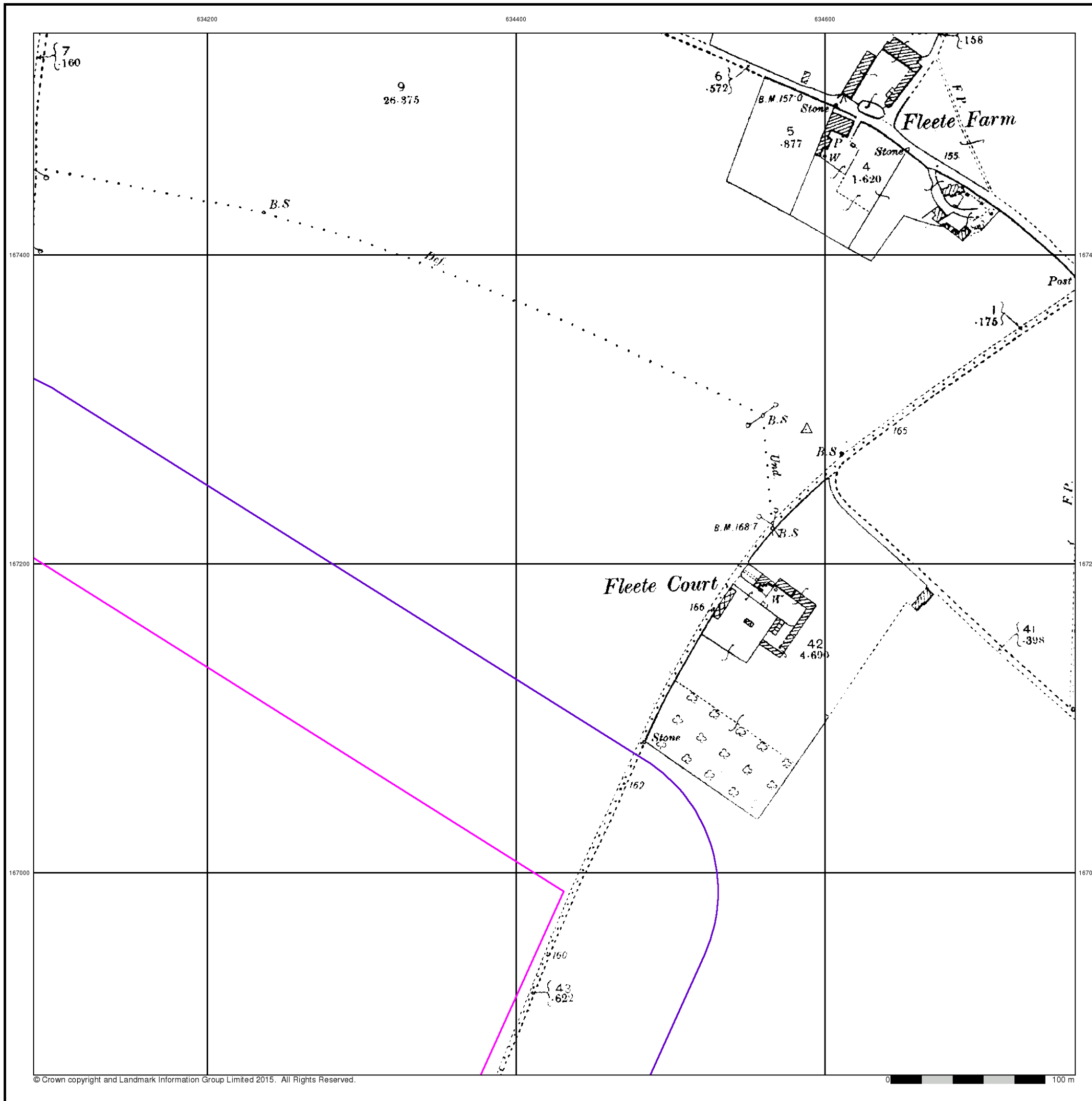


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 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



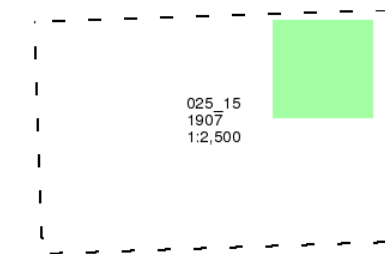
Kent

Published 1907

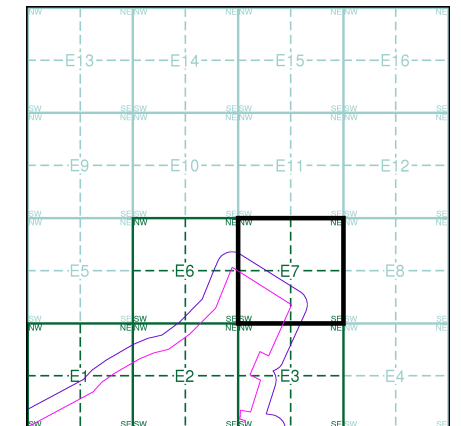
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E7

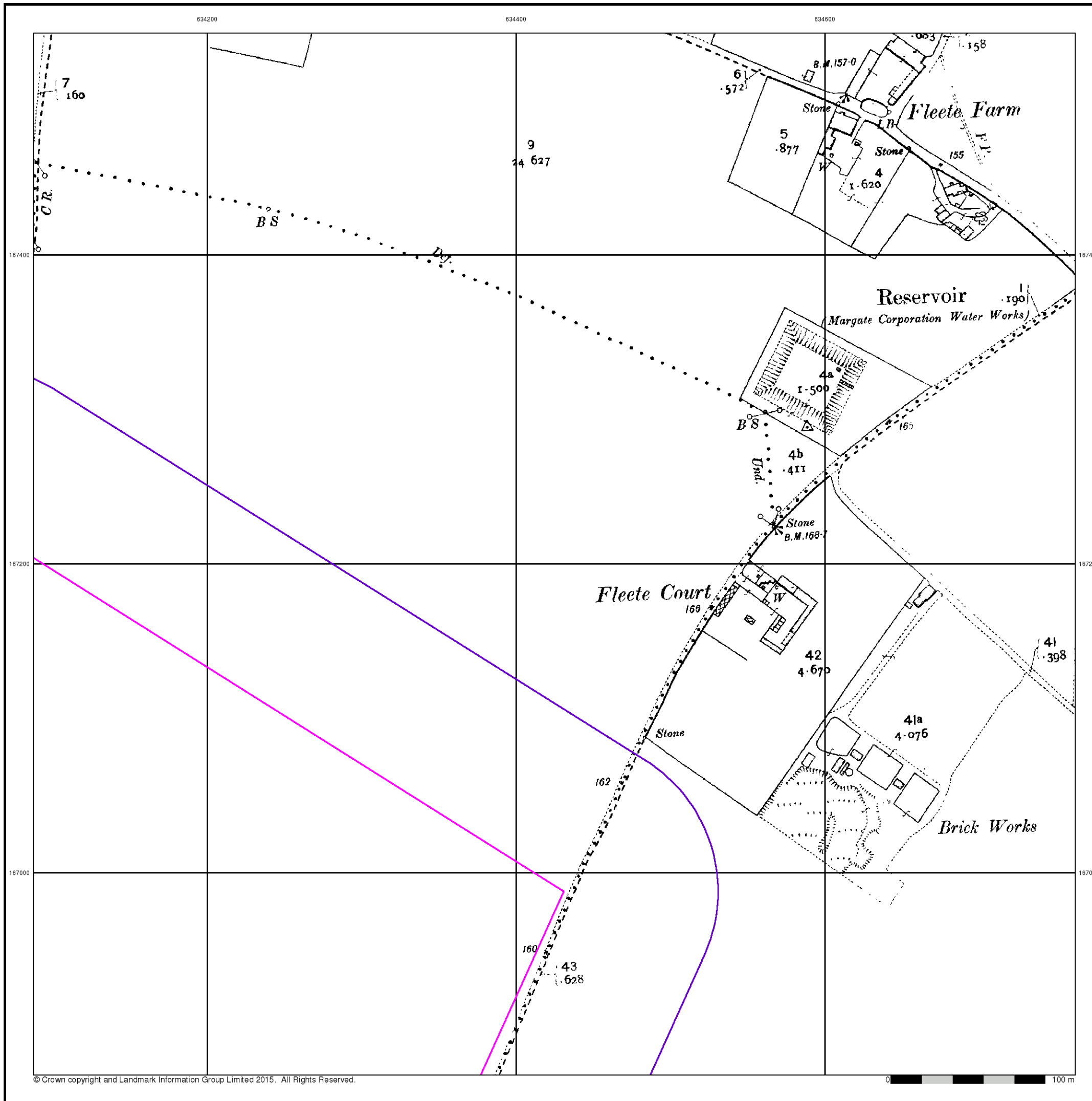


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



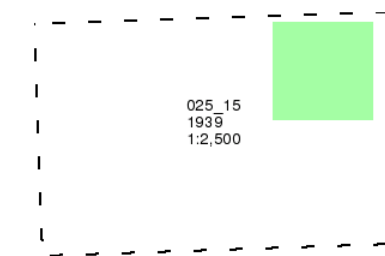
Kent

Published 1939

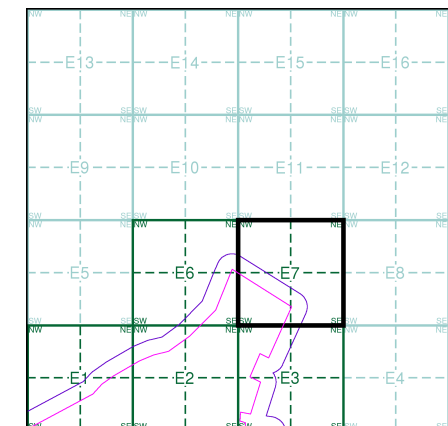
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E7

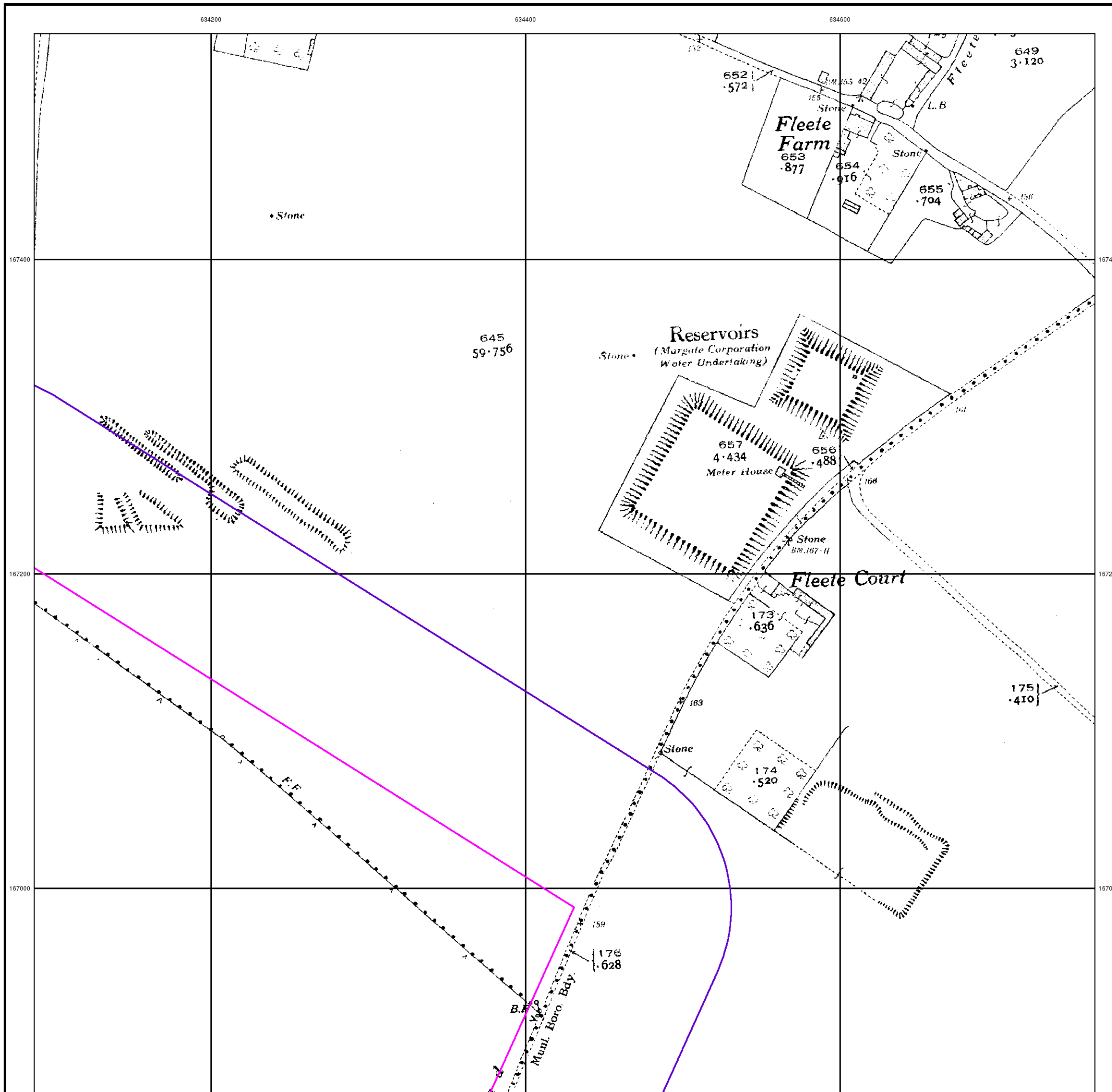


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



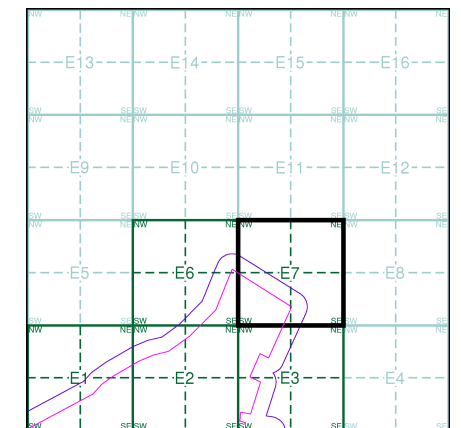
Ordnance Survey Plan
Published 1963 - 1964
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TR3467	1963	1:2,500
TR3466	1964	1:2,500

Historical Map - Segment E7

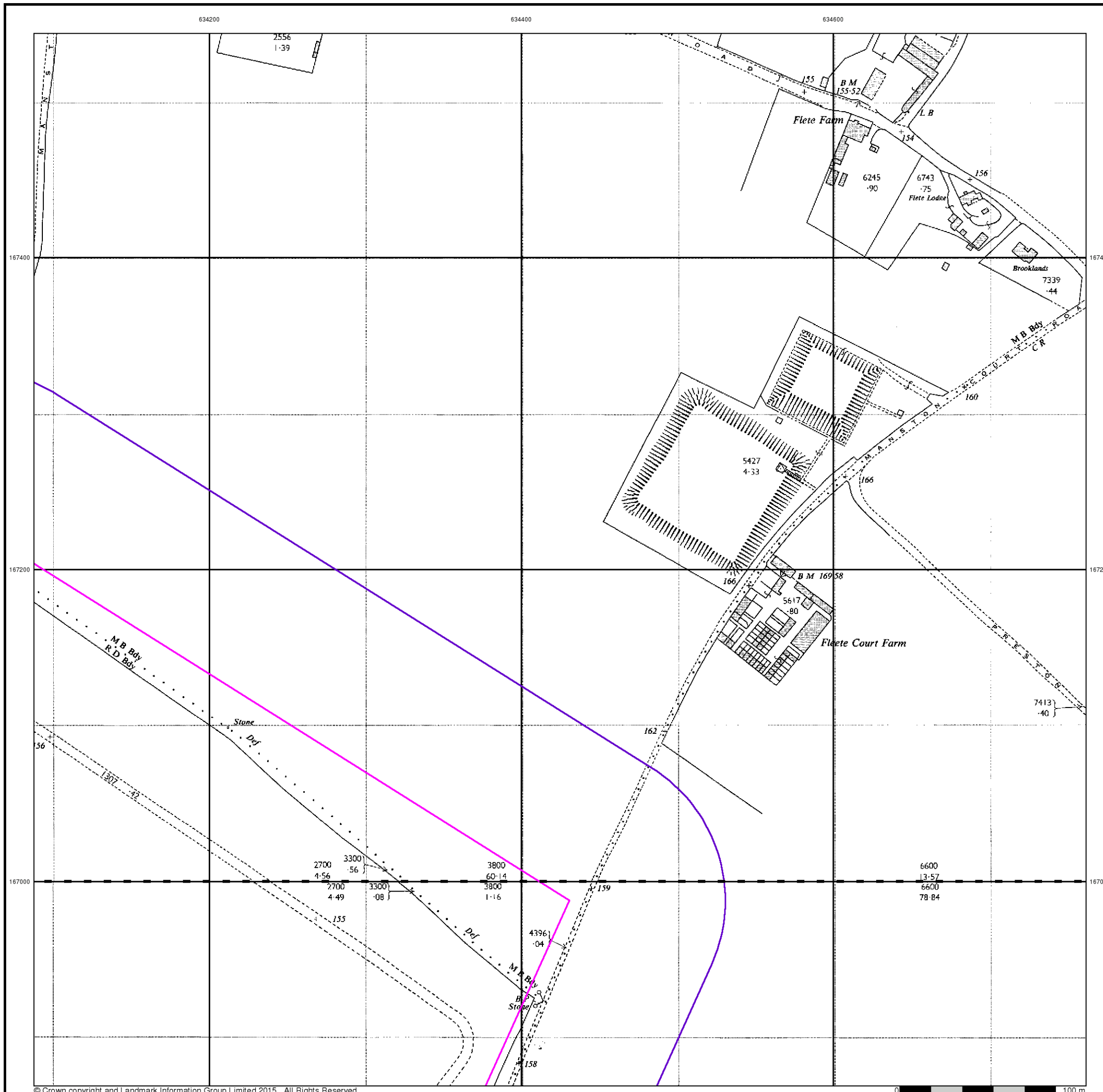


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Additional SIMs

Published 1963 - 1977

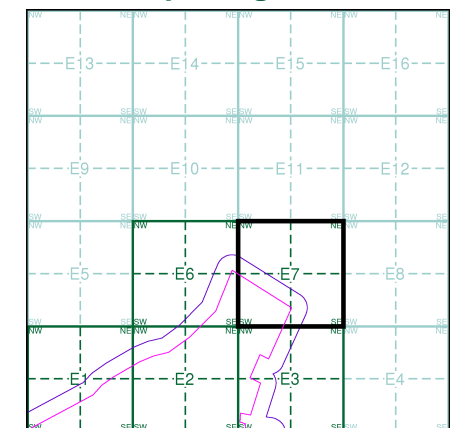
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TR3467	1963	1:2,500
TR3466	1977	1:2,500

Historical Map - Segment E7

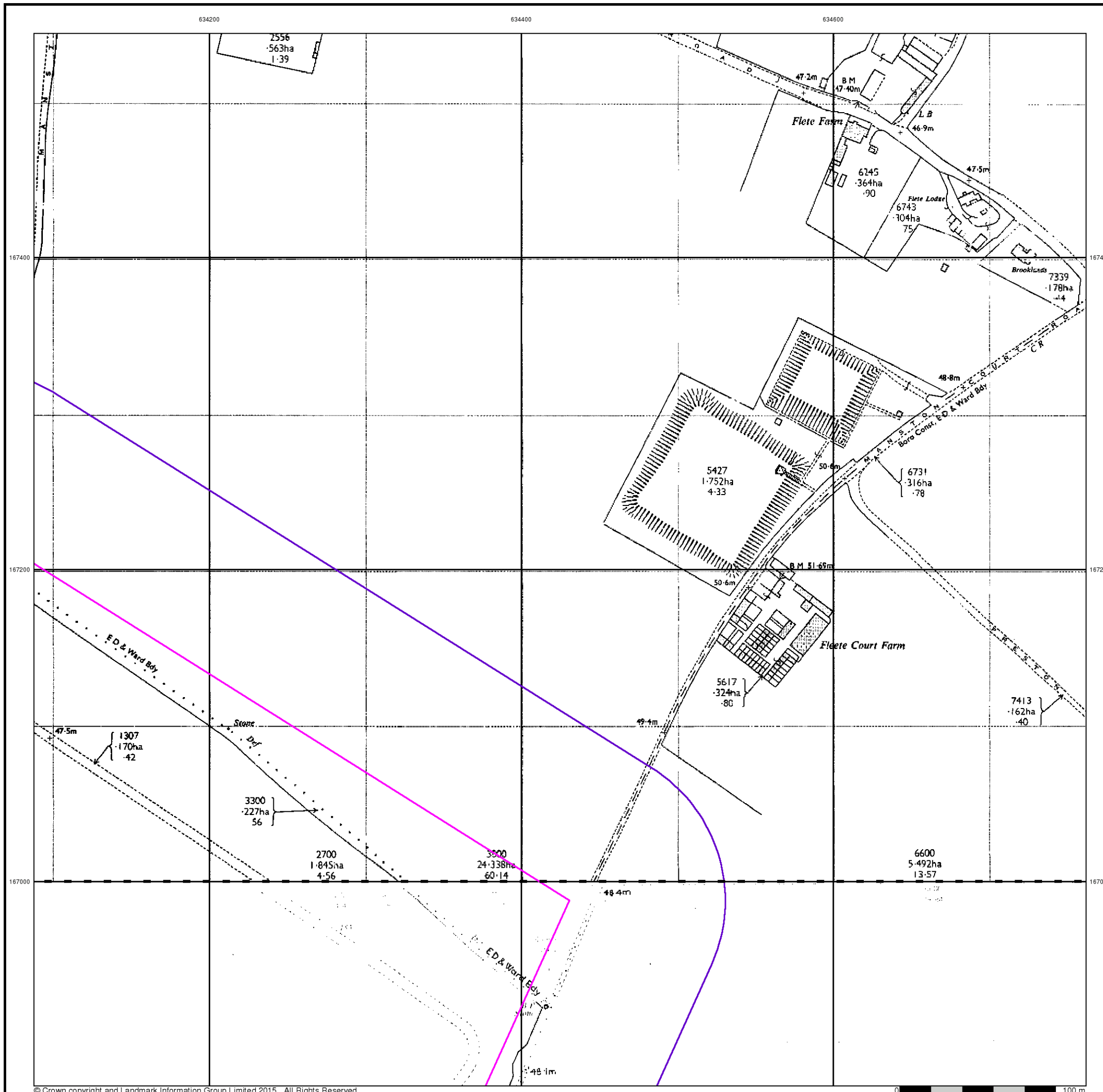


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



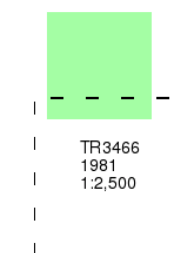
Ordnance Survey Plan

Published 1981

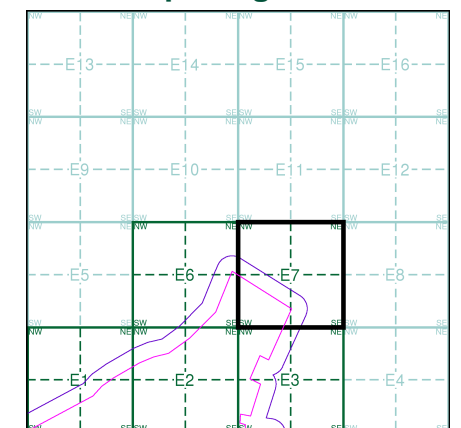
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E7

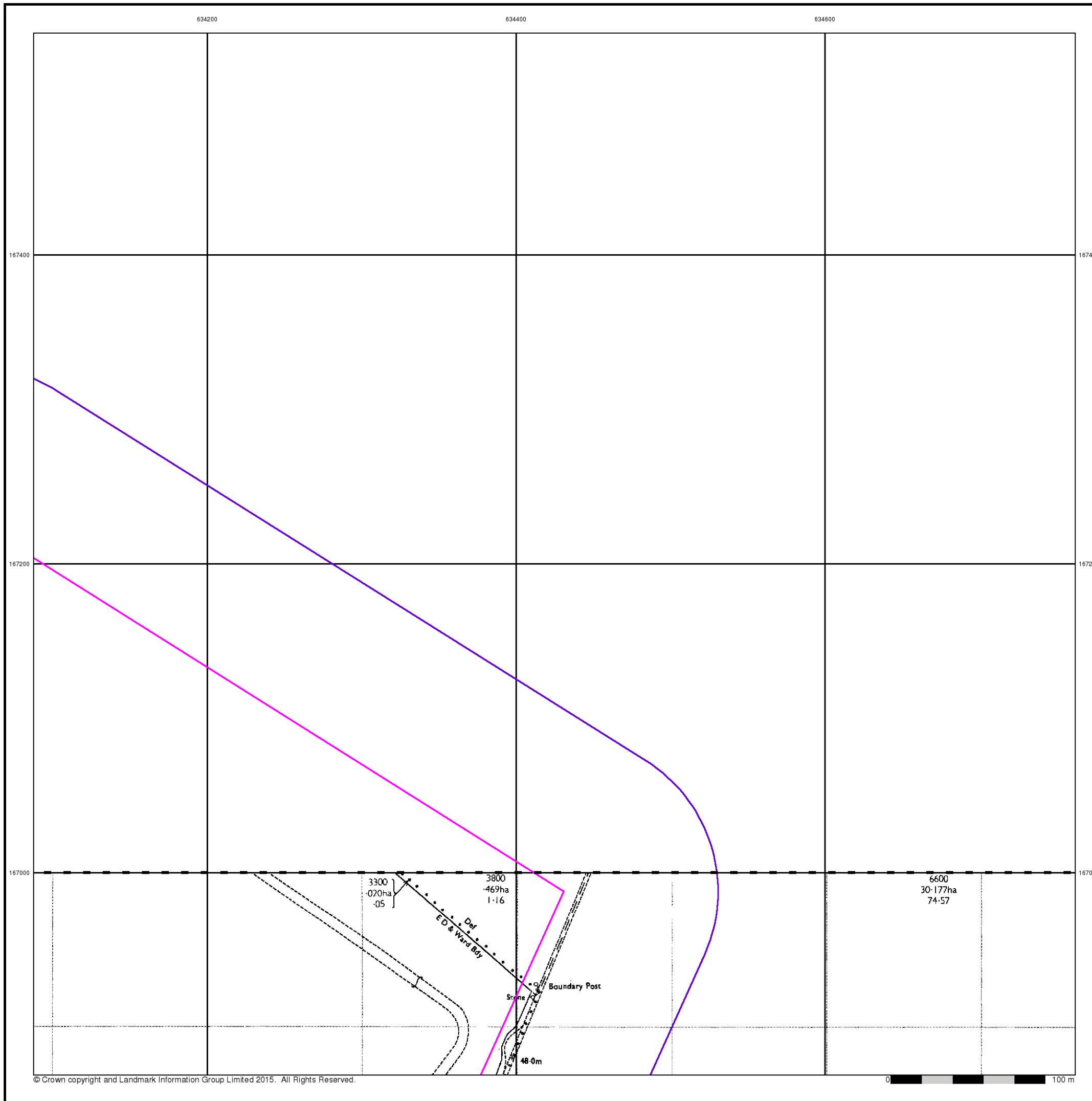


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



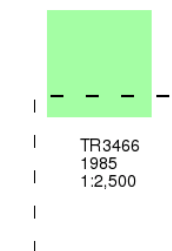
Ordnance Survey Plan

Published 1985

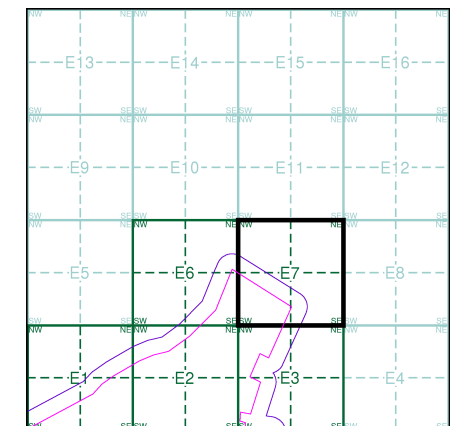
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E7

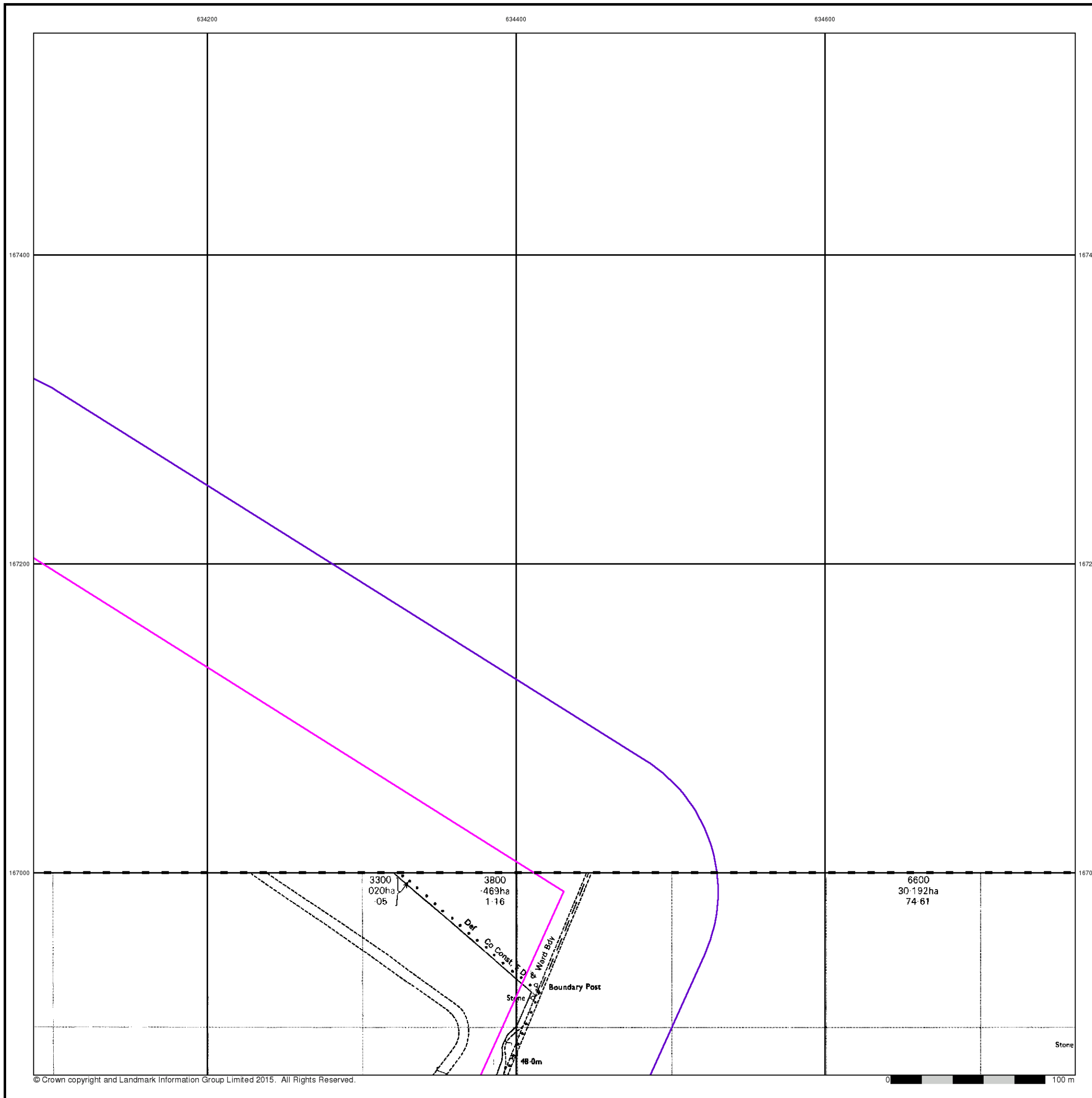


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



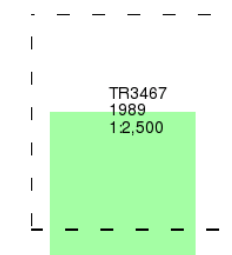
Additional SIMs

Published 1989

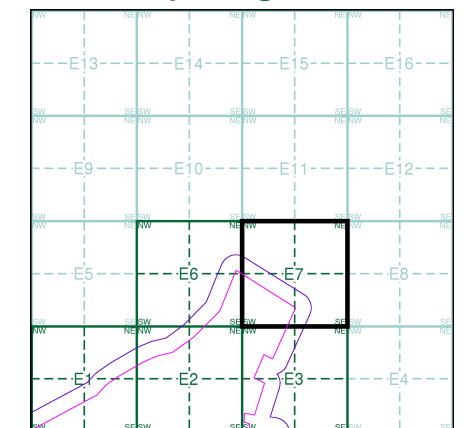
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment E7

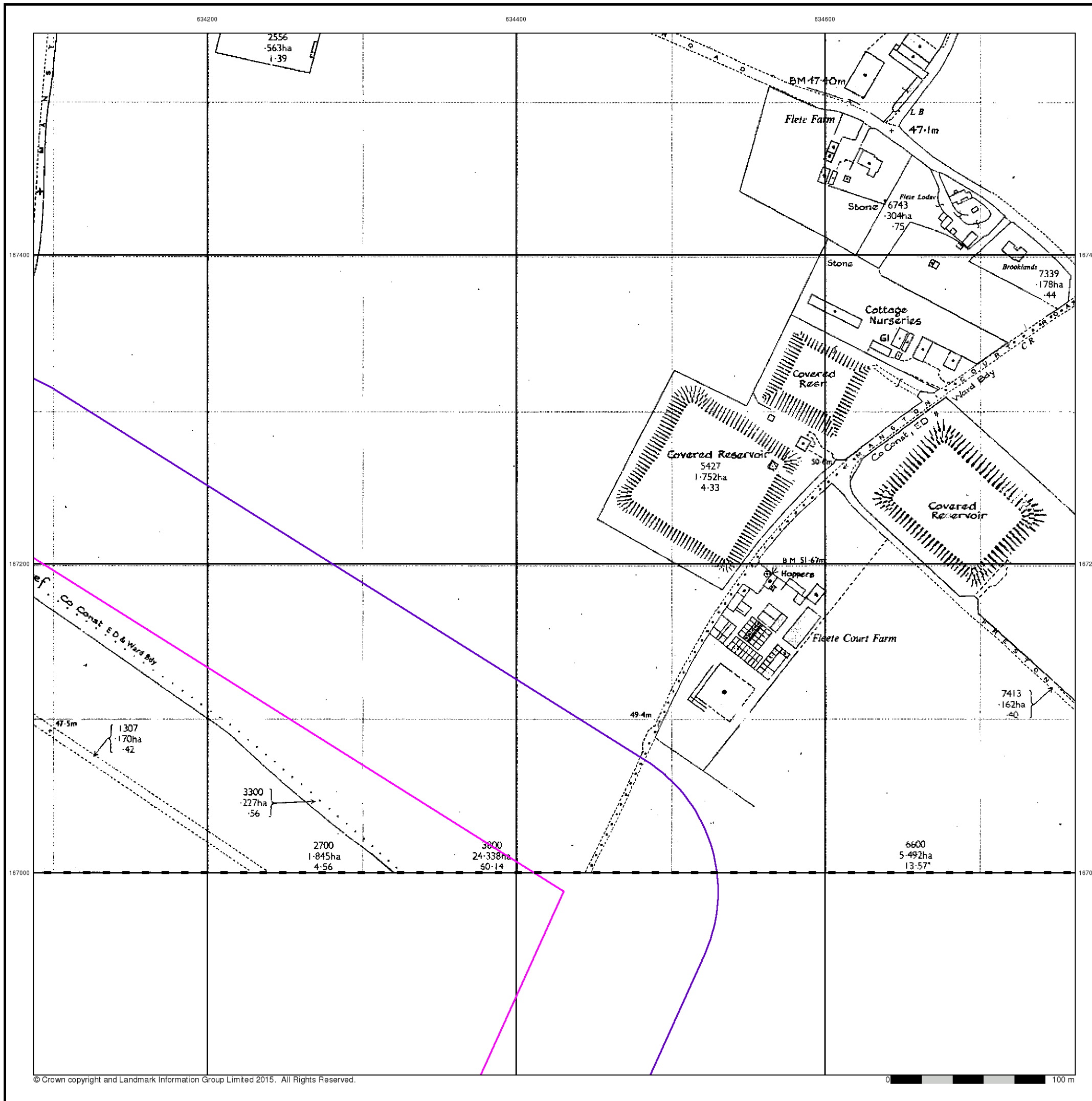


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 634090, 167070
 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Large-Scale National Grid Data

Published 1993

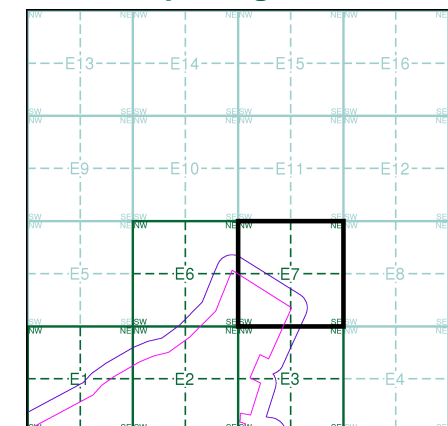
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TR3467	1993	1:2,500
TR3466	1993	1:2,500

Historical Map - Segment E7

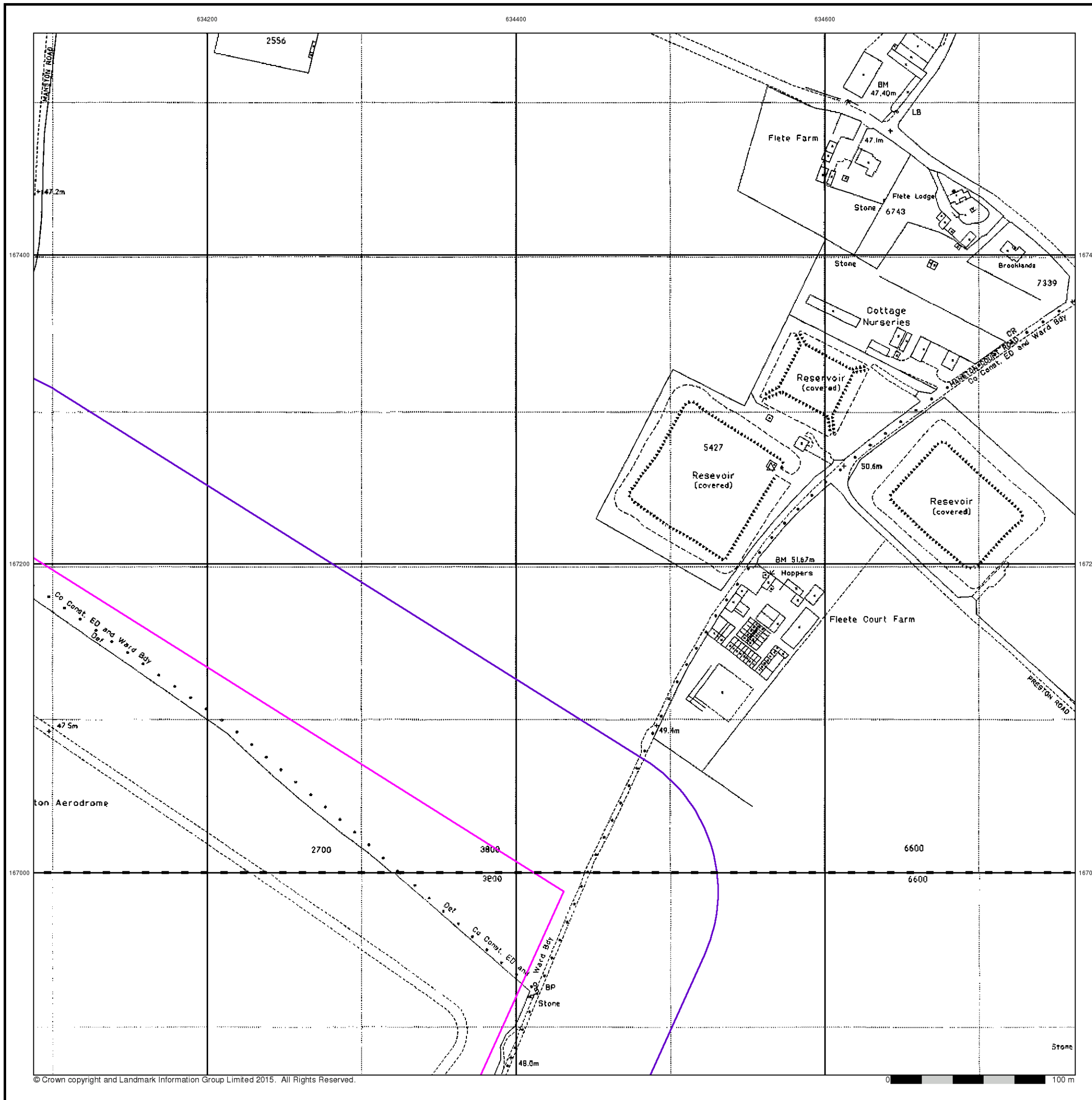


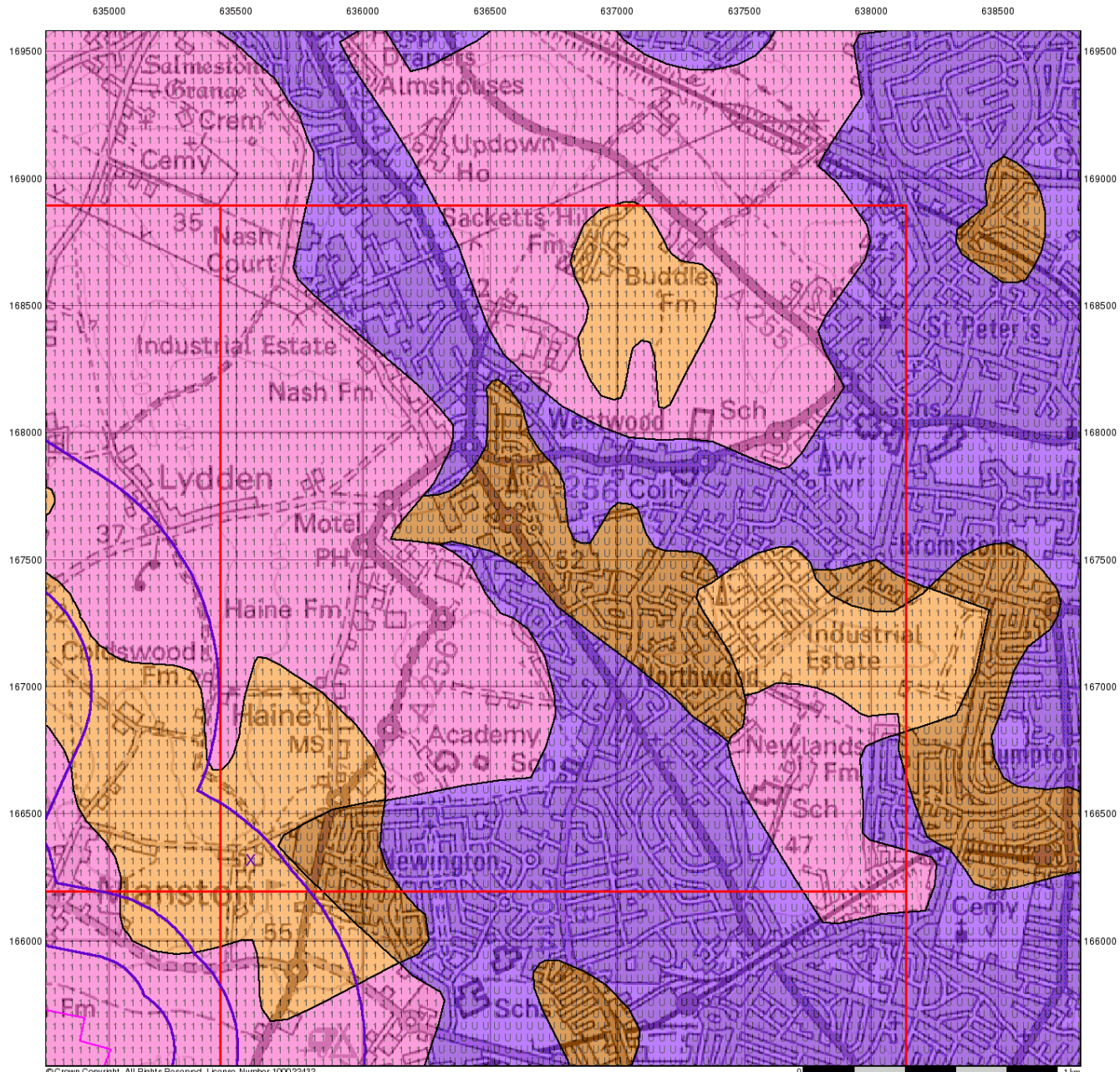
Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
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 Slice: E
 Site Area (Ha): 306.39
 Search Buffer (m): 100

Site Details

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0 1 km



Groundwater Vulnerability

General

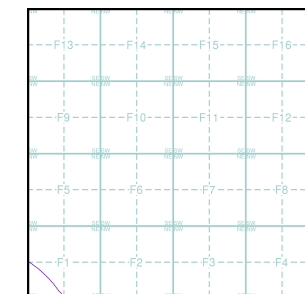
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- | | | |
|---------------------------------------|--|-----------------------|
| Major Aquifer
(Highly Permeable) | | High (H) 1, 2, 3, U |
| | | Intermediate (I) 1, 2 |
| | | Low |
| Minor Aquifer
(Variably Permeable) | | High (H) 1, 2, 3, U |
| | | Intermediate (I) 1, 2 |
| | | Low |
| Non Aquifer
(Negligibly Permeable) | | |
| Water or Sea | | |
| Drift Deposit | | |

Site Sensitivity Context Map - Slice F



Order Details

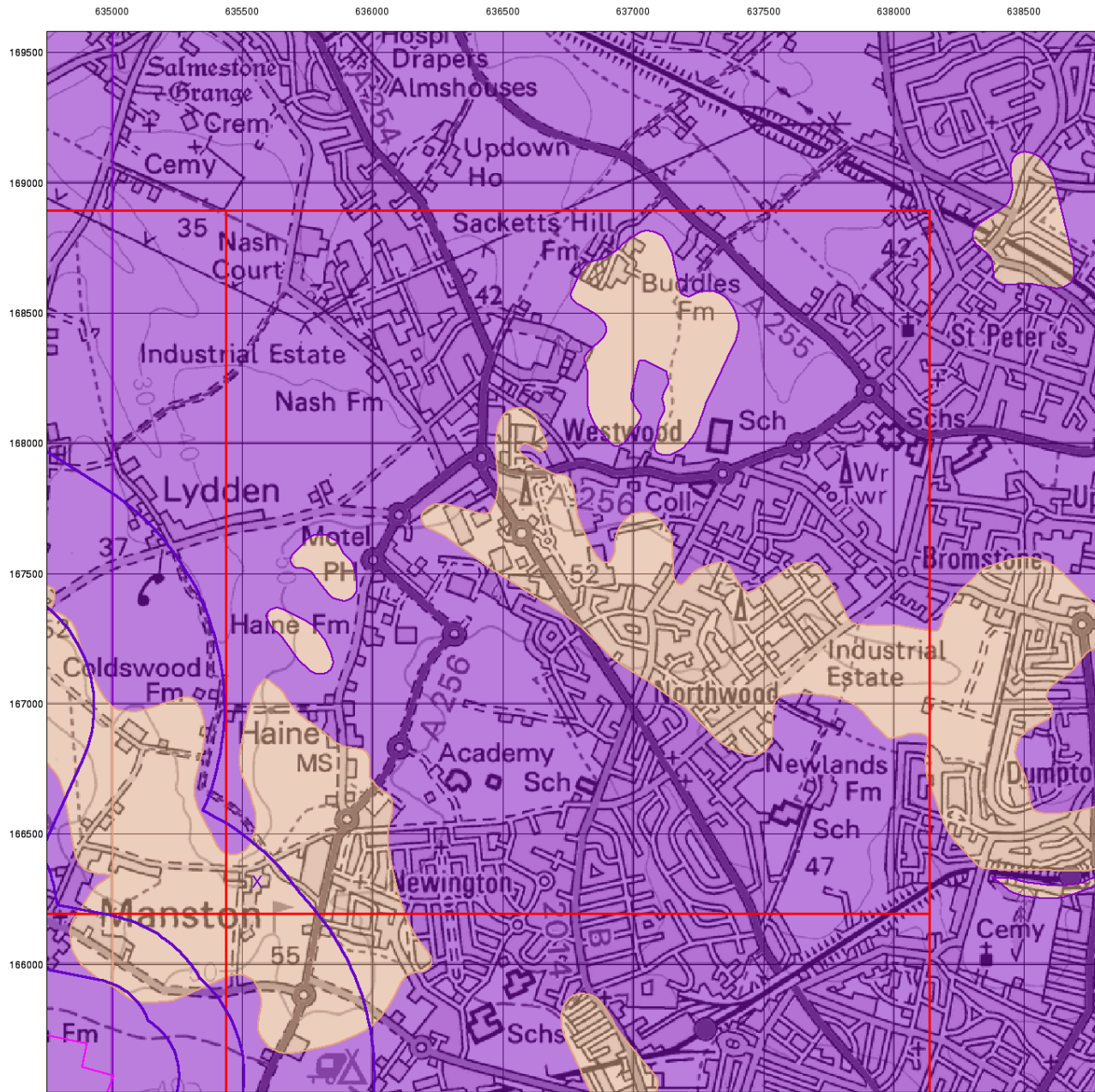
Order Number: 82787389_1.1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport, Manston,
 RAMSGATE, Kent, CT12 5BL



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



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0 1 km



Bedrock Aquifer Designation

General

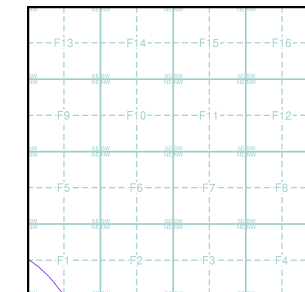
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice F



Order Details

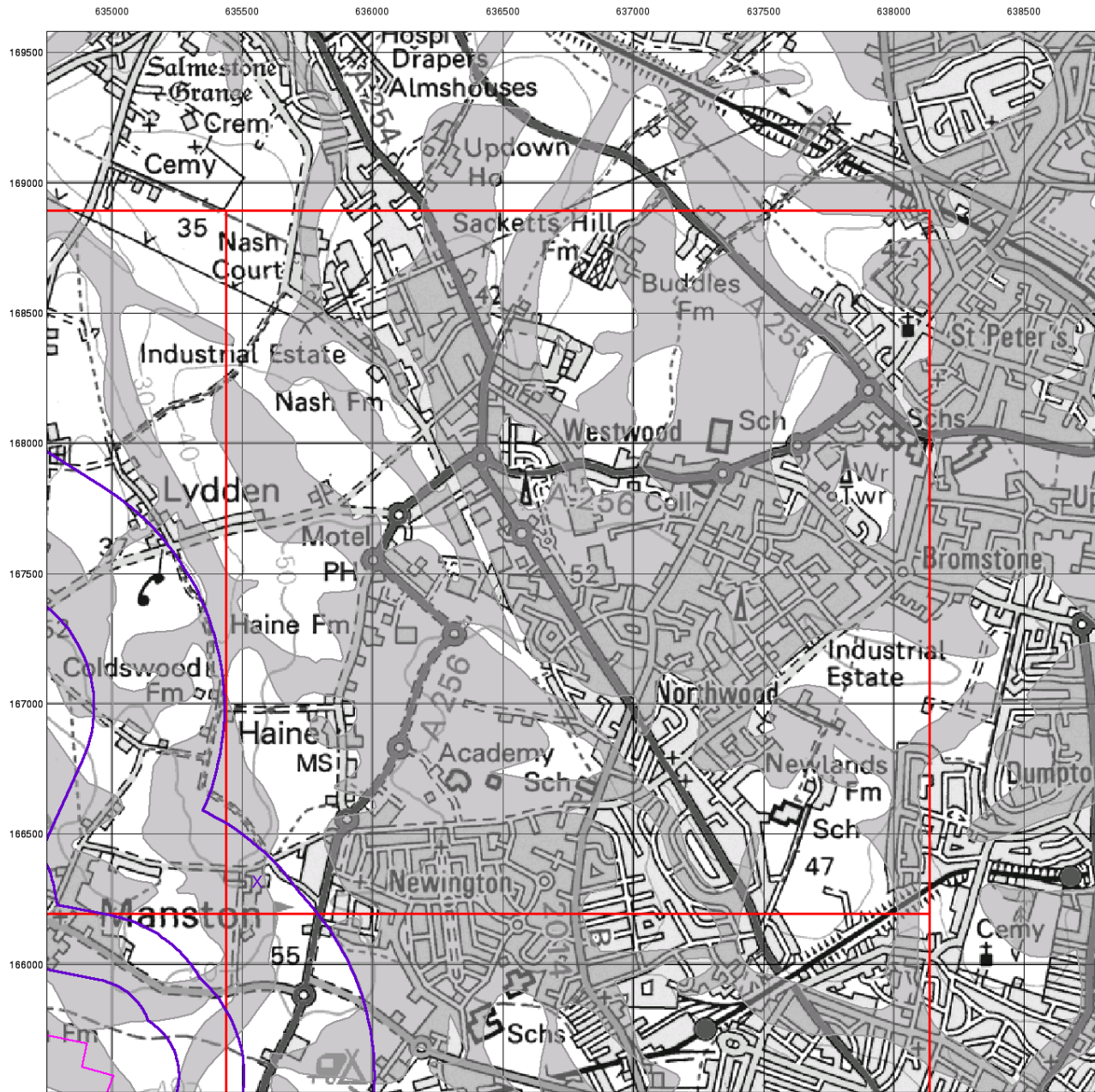
Order Number: 82787389_1.1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport, Manston,
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Superficial Aquifer Designation

General

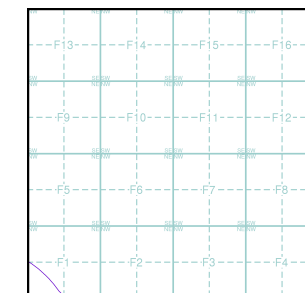
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice F



Order Details

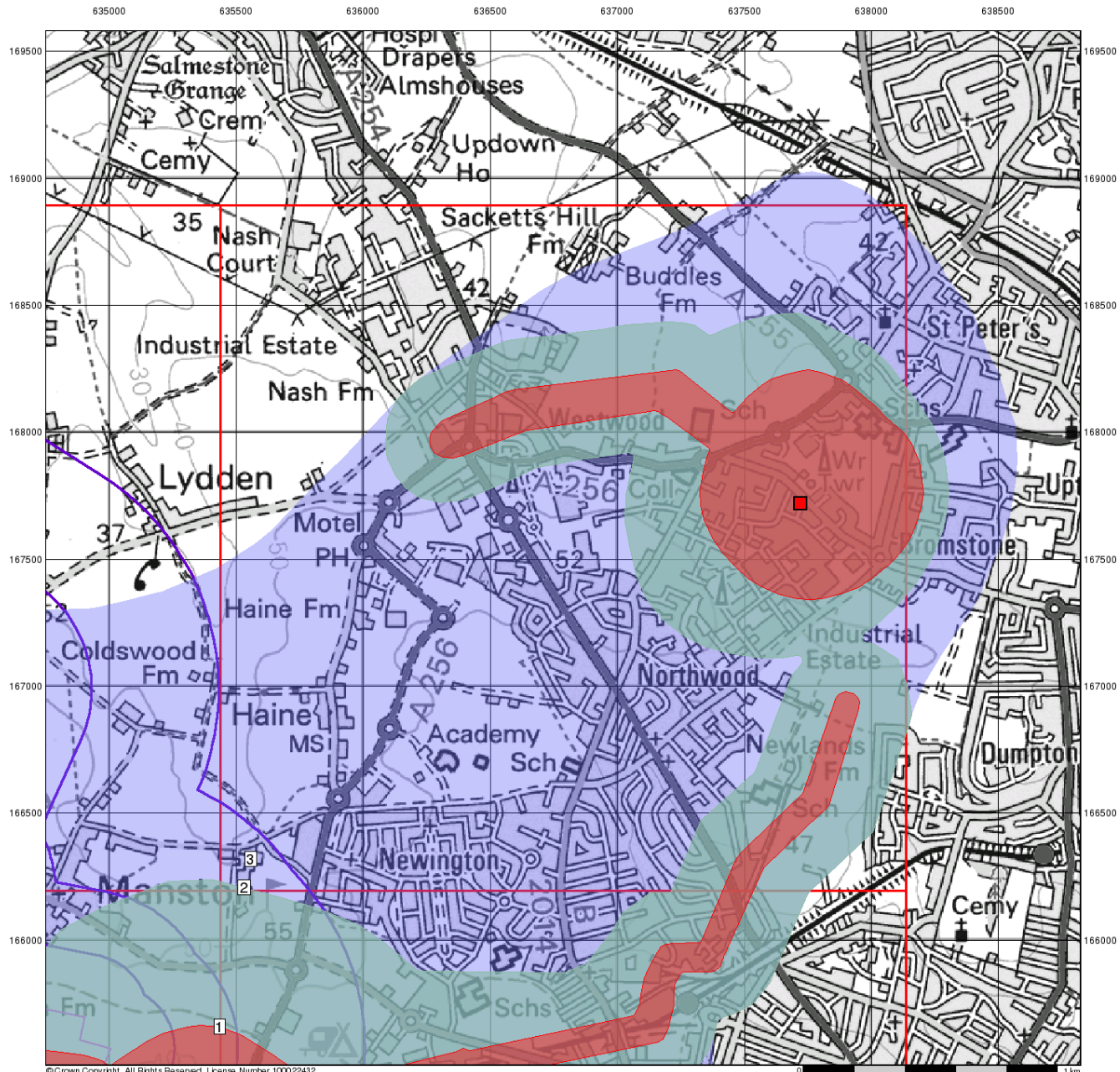
Order Number: 82787389_1.1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

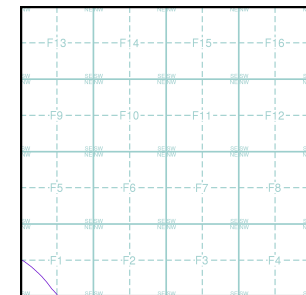
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice F



Order Details

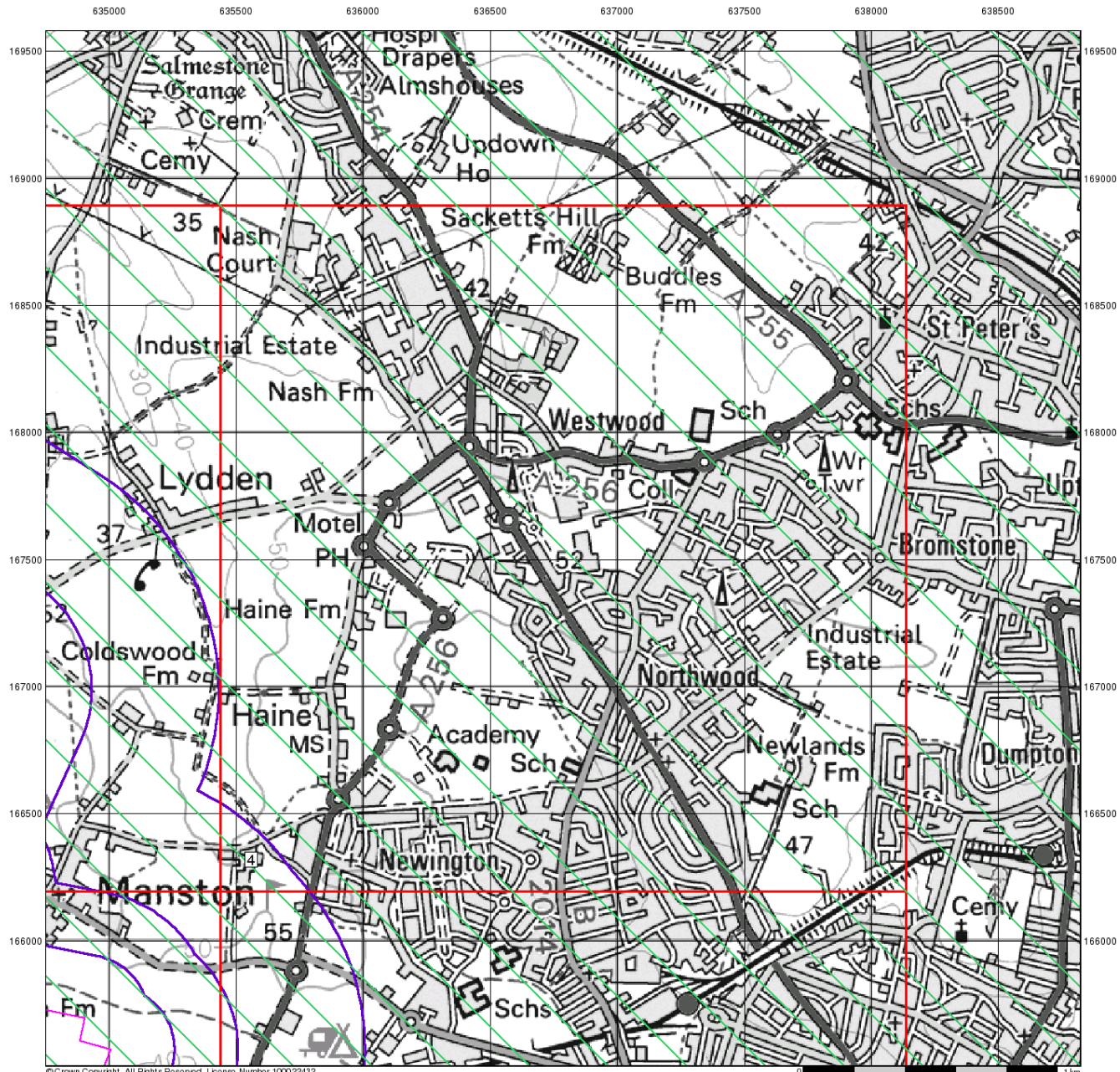
Order Number: 82787389_1_1
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Sensitive Land Uses

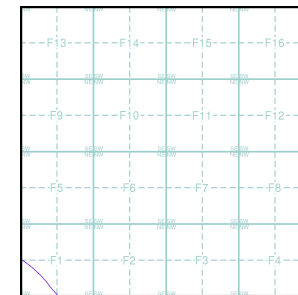
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice F



Order Details

Order Number: 82787389_1.1
 Customer Ref: 38199-15
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Site Details

Kent International Airport Ltd, Kent International Airport, Manston,
 RAMSGATE, Kent, CT12 5BL



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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

82787389_1_1

Customer Reference:

38199-15

National Grid Reference:

635560, 166320

Slice:

F

Site Area (Ha):

306.39

Search Buffer (m):

1000

Site Details:

Kent International Airport Ltd
Kent International Airport, Manston
RAMSGATE
Kent
CT12 5BL

Client Details:

Ms V Dahmoun
Amec Foster Wheeler E & I UK Ltd
Floor 4
60 London Wall
London
United Kingdom
EC2M 5TQ

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	3
Hazardous Substances	-
Geological	4
Industrial Land Use	-
Sensitive Land Use	6
Data Currency	7
Data Suppliers	11
Useful Contacts	12

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents					
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature					
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 1				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 1	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 1	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 1	Yes	n/a	n/a	n/a
Source Protection Zones	pg 1	3			
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines					n/a
Detailed River Network Offline Drainage					n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology			n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 4				Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability	pg 4	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 4	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 5	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 5		Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 5	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 5	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 5	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries					
Fuel Station Entries					
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 6	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature None				
	Water Abstractions Operator: J P Ash And Sons Licence Number: So/040/0013/008 Permit Version: 1 Location: Haine Farm, Haine Road, Ramsgate, Kent Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	F5NE (NE)	1551	2	635964 167217
	Groundwater Vulnerability Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 47 East Kent Scale: 1:100,000	(S)	0	2	635544 166002
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 47 East Kent Scale: 1:100,000	F1SW (E)	0	2	635560 166318
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	(W)	0	3	635000 166340
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	F1SW (NW)	0	3	635502 166429
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	F1SW (E)	0	3	635560 166318
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	(W)	0	3	635005 166318
1	Source Protection Zones Name: Lord Of The Manor Source: Environment Agency, Head Office Reference: Su036 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	(S)	0	2	635433 165659
2	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	F1SW (S)	0	2	635531 166207
3	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	F1SW (E)	0	2	635560 166318
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Defences None				
	Detailed River Network Lines None				
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Thanet District Council - Has supplied landfill data		0	6	635560 166318
	Local Authority Landfill Coverage Name: Kent County Council - Had landfill data but passed it to the relevant environment agency		0	7	635560 166318

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	F1SW (E)	587	3	635560 166318
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	F5SW (N)	636	3	635448 167000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	F1SW (E)	734	3	635583 166323
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	F1SW (NW)	899	3	635497 166430
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	F1SW (NW)	912	3	635475 166439
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Mining Instability Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	F1SW (W)	0	-	635500 166318
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	F1SW (NW)	0	3	635497 166430

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	F1SW (E)	232	3	635560 166318
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	F1SW (E)	0	3	635560 166318
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	F1SW (E)	0	3	635560 166318
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	F1SW (E)	232	3	635560 166318
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	F1SW (E)	0	3	635560 166318
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	F1SW (E)	0	3	635560 166318
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	F1SW (E)	0	3	635560 166318
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	F1SW (NW)	0	3	635530 166349
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	F1SW (NW)	0	3	635530 166349

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Nitrate Vulnerable Zones Name: Not Supplied Description: Groundwater Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	F1SW (E)	0	4	635560 166318

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Discharge Consents Environment Agency - Southern Region	January 2016	Quarterly
Enforcement and Prohibition Notices Environment Agency - Southern Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Southern Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Southern Region	January 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Thanet District Council - Environmental Health Department	April 2014	Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Southern Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Southern Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - Southern Region	March 2013	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	January 2016 January 2016	Quarterly Quarterly
Water Abstractions Environment Agency - Southern Region	January 2016	Quarterly
Water Industry Act Referrals Environment Agency - Southern Region	January 2016	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	January 2015	As notified
Source Protection Zones Environment Agency - Head Office	January 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2016	Quarterly
Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Integrated Pollution Control Registered Waste Sites Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	February 2016 February 2016	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Southern Region - Kent Area Environment Agency - Southern Region - Kent and East Sussex	January 2016 January 2016	Quarterly Quarterly
Local Authority Landfill Coverage Kent County Council - Waste Management Group Thanet District Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Kent County Council - Waste Management Group Thanet District Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Southern Region - Kent Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	February 2016	Bi-Annually
Explosive Sites Health and Safety Executive	February 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Thanet District Council Kent County Council	February 2016 January 2016	Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Thanet District Council Kent County Council	February 2016 January 2016	Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2015	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2015	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2015	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Outstanding Natural Beauty Natural England	October 2015	Bi-Annually
Environmentally Sensitive Areas Natural England	October 2015	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	October 2015	Bi-Annually
Marine Nature Reserves Natural England	October 2015	Bi-Annually
National Nature Reserves Natural England	October 2015	Bi-Annually
National Parks Natural England	March 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	October 2015	Bi-Annually
Sites of Special Scientific Interest Natural England	October 2015	Bi-Annually
Special Areas of Conservation Natural England	October 2015	Bi-Annually
Special Protection Areas Natural England	October 2015	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 <p>British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Centre for Ecology and Hydrology	 <p>Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
5	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
6	Thanet District Council - Environmental Health Department Council Offices, Cecil Street, Margate, Kent, CT9 1XZ	Telephone: 01843 577000 Fax: 01843 290906 Website: www.thanet.gov.uk
7	Kent County Council - Waste Management Group Block H, The Forstal, Beddow Way, Aylesford, Kent, ME20 7BT	Telephone: 01622 605976 Website: www.kent.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

- Chalk Pit, Clay Pit or Quarry
- Gravel Pit
- Sand Pit
- Disused Pit or Quarry
- Refuse or Slag Heap
- Lake, Loch or Pond
- Dunes
- Boulders
- Coniferous Trees
- Non-Coniferous Trees
- Orchard
- Scrub
- Coppice
- Bracken
- Heath
- Rough Grassland
- Marsh
- Reeds
- Saltings
- Building
- Glasshouse
- Sloping Masonry
- Pylon
- Electricity Transmission Line
- Pole
- Cutting
- Embankment
- Standard Gauge Multiple Track
- Standard Gauge Single Track
- Siding, Tramway or Mineral Line
- Narrow Gauge
- Geographical County
- Administrative County, County Borough or County of City
- Municipal Borough, Urban or Rural District, Burgh or District Council
- Borough, Burgh or County Constituency
- Civil Parish
- BP, BS Boundary Post or Stone
- Ch Church
- CH Club House
- F E Sta Fire Engine Station
- FB Foot Bridge
- Fn Fountain
- GP Guide Post
- MP Mile Post
- MS Mile Stone
- Pol Sta Police Station
- PO Post Office
- PC Public Convenience
- PH Public House
- SB Signal Box
- Spr Spring
- TCB Telephone Call Box
- TCP Telephone Call Post
- W Well

1:10,000 Raster Mapping

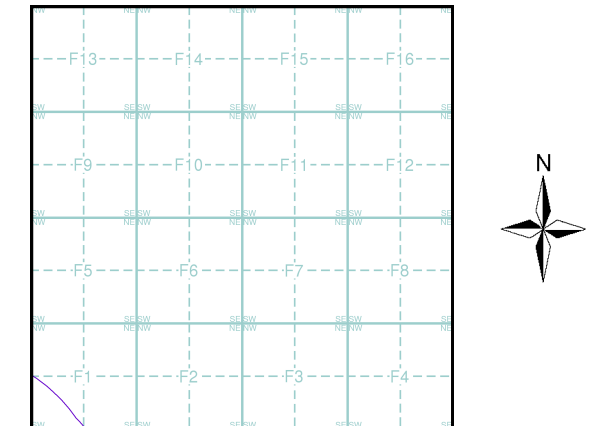
- Gravel Pit
- Rock
- Boulders
- Shingle
- Sand
- Slopes
- Refuse tip or slag heap
- Rock (scattered)
- Boulders (scattered)
- Mud
- Sand Pit
- Top of cliff
- General detail
- Underground detail
- Overhead detail
- Narrow gauge railway
- Multi-track railway
- Single track railway
- County boundary (England only)
- Civil, parish or community boundary
- District, Unitary, Metropolitan, London Borough boundary
- Constituency boundary
- Area of wooded vegetation
- Non-coniferous trees
- Coniferous trees
- Positioned tree
- Orchard
- Coppice or Osiers
- Rough Grassland
- Heath
- Scrub
- Marsh, Salt Marsh or Reeds
- Water feature
- Flow arrows
- MHW(S) Mean high water (springs)
- MLW(S) Mean low water (springs)
- Telephone line (where shown)
- Electricity transmission line (with poles)
- BM 123.45 m Bench mark (where shown)
- Point feature (e.g. Guide Post or Mile Stone)
- Site of (antiquity)
- Glasshouse
- General Building
- Important Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:10,560	1877	2
Kent	1:10,560	1899	3
Kent	1:10,560	1908	4
Kent	1:10,560	1908	5
Kent	1:10,560	1931 - 1932	6
Kent	1:10,560	1931	7
Kent	1:10,560	1938	8
Kent	1:10,560	1947 - 1948	9
Historical Aerial Photography	1:10,560	1947	10
Historical Aerial Photography	1:10,560	1947	11
Ordnance Survey Plan	1:10,000	1962	12
Ordnance Survey Plan	1:10,000	1973	13
Ordnance Survey Plan	1:10,000	1979	14
Ordnance Survey Plan	1:10,000	1995	15
10K Raster Mapping	1:10,000	2006	16
VectorMap Local	1:10,000	2016	17

Historical Map - Slice F



Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



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

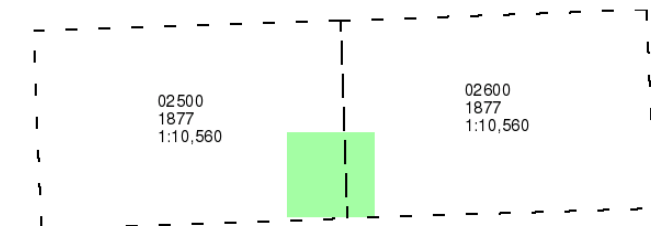
Kent

Published 1877

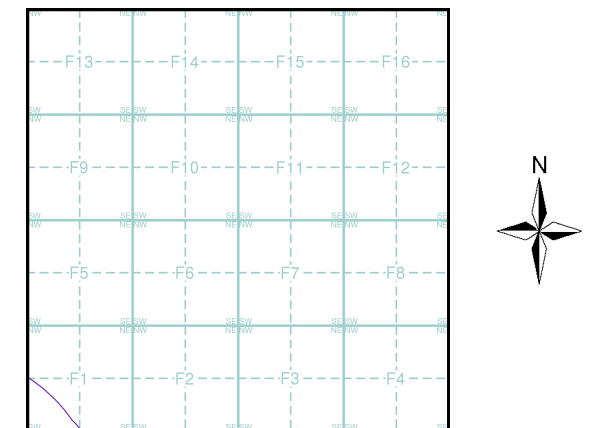
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice F

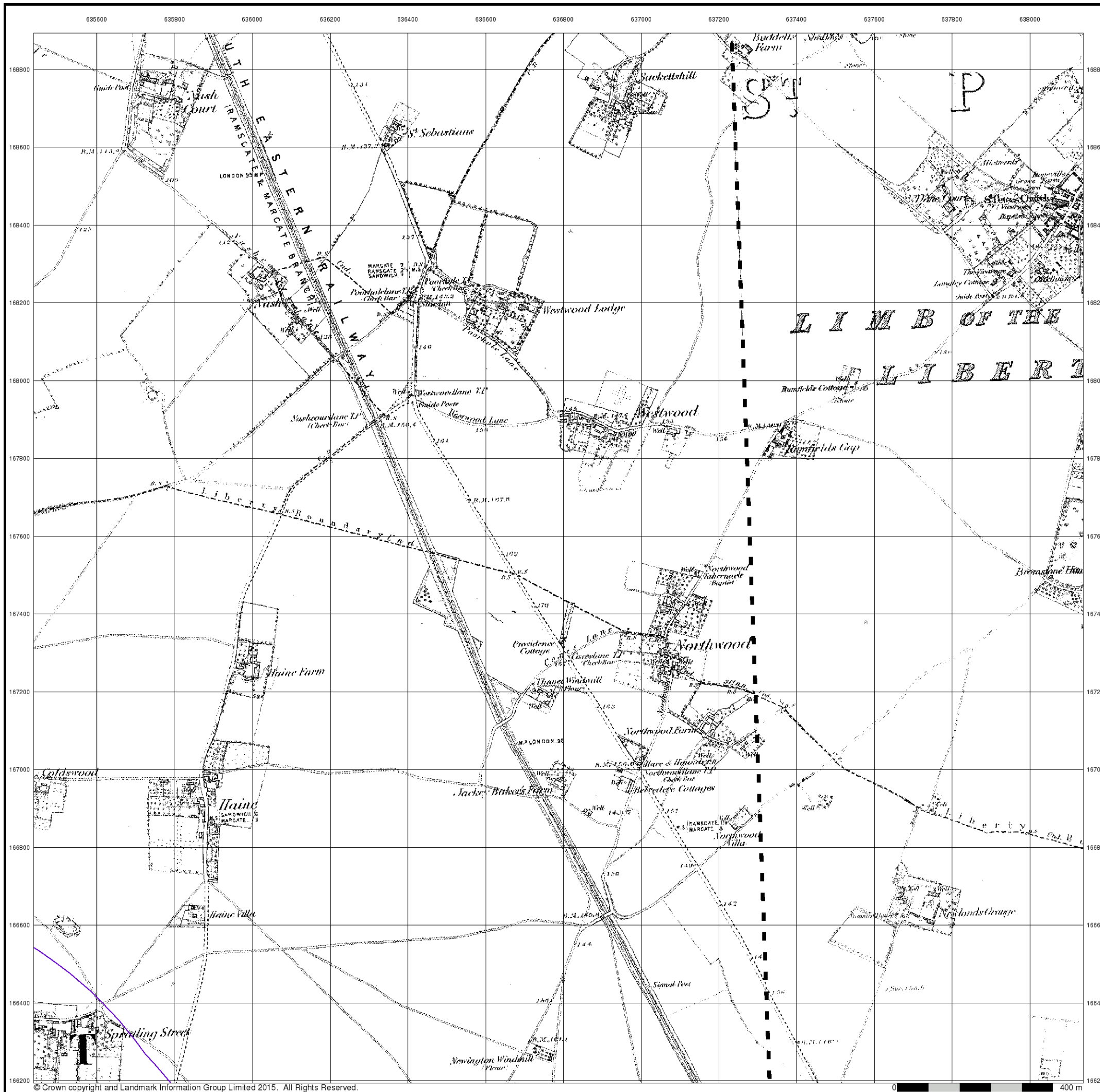


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



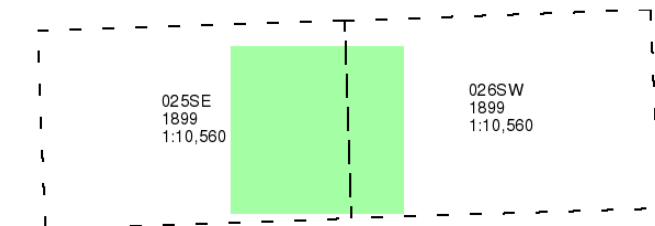
Kent

Published 1899

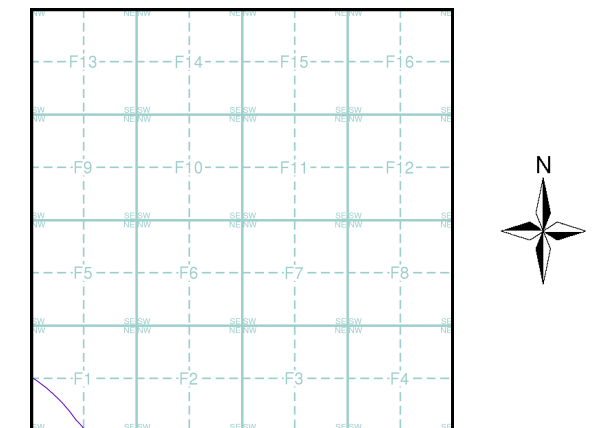
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice F

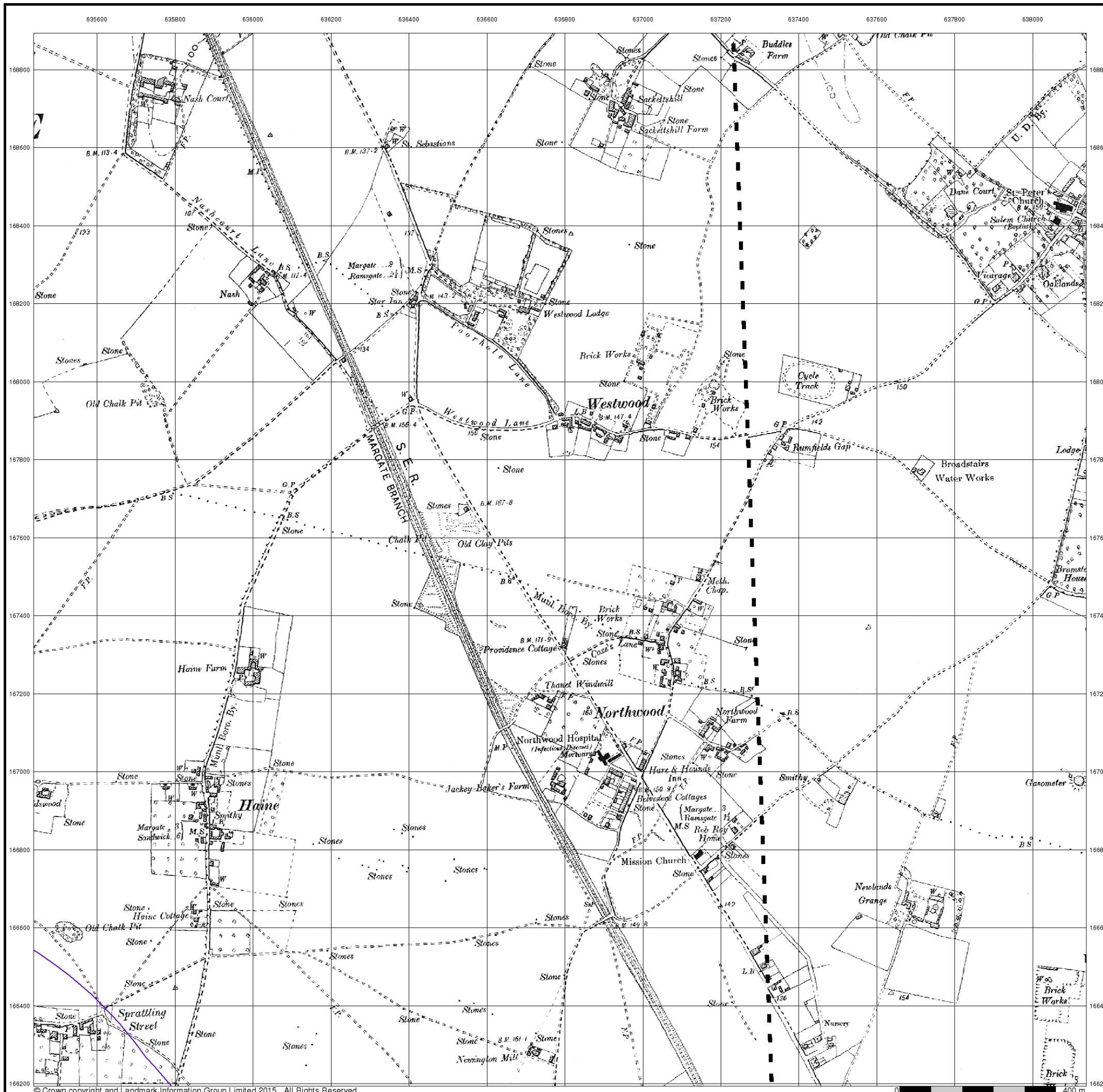


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



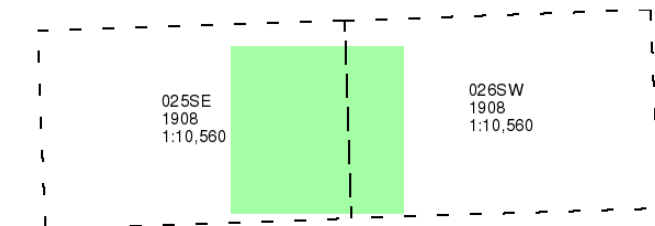
Kent

Published 1908

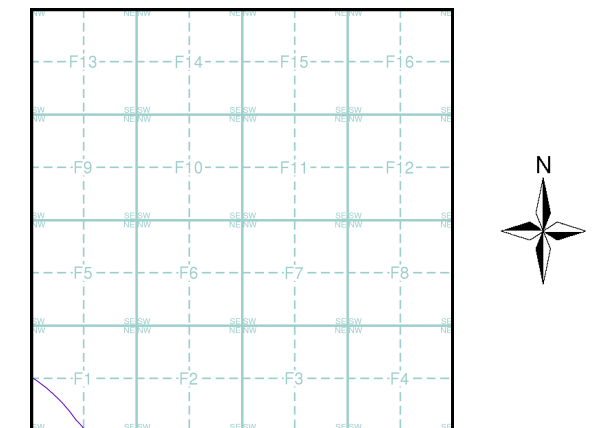
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice F

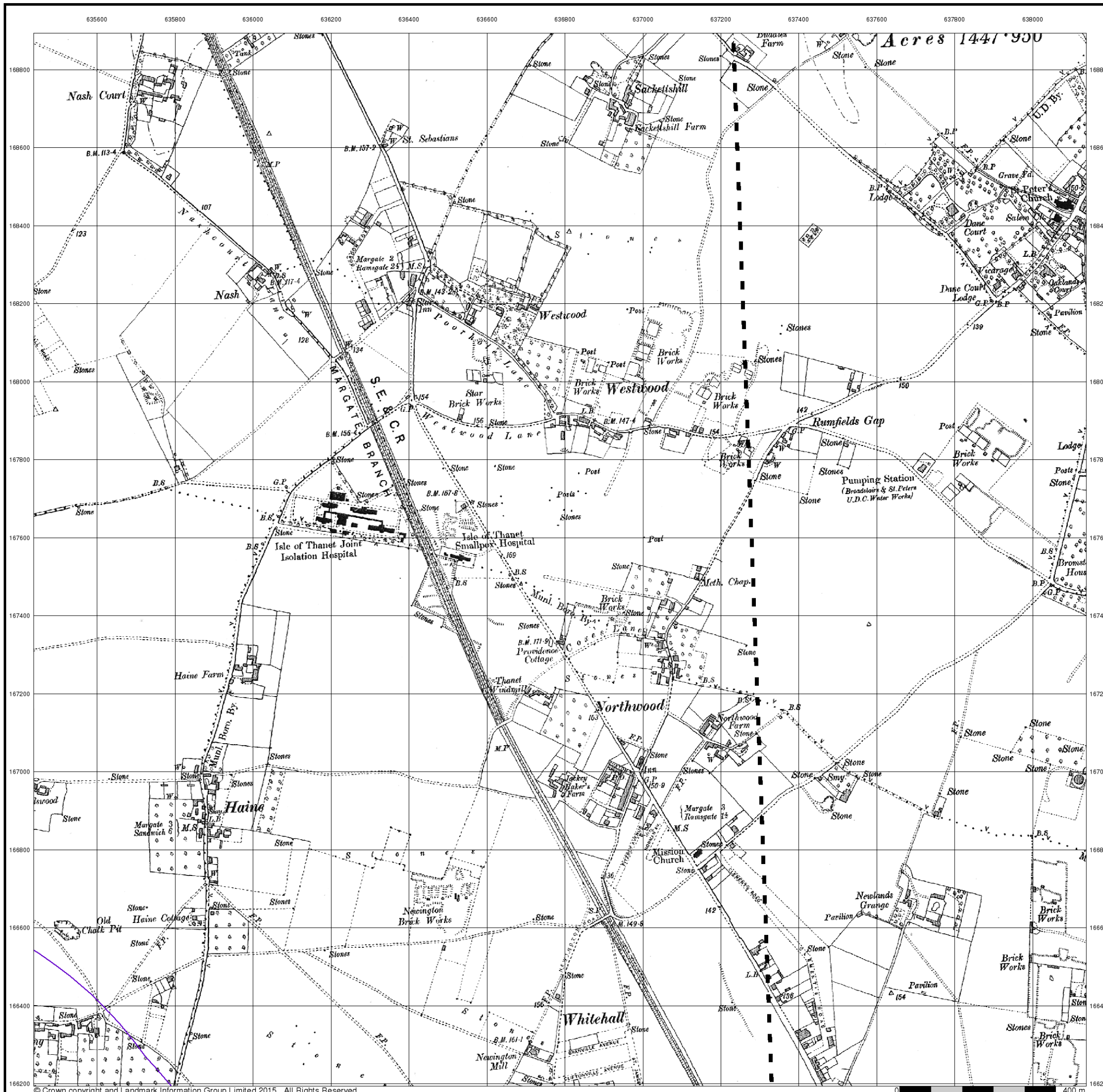


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



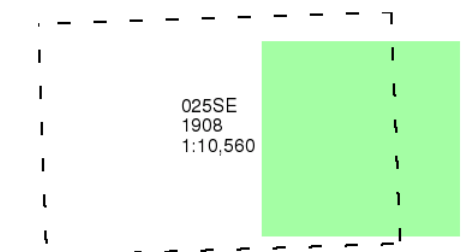
Kent

Published 1908

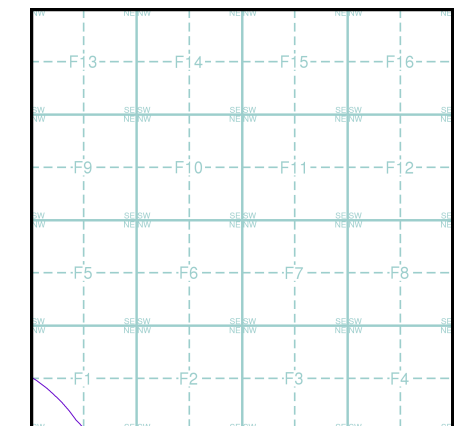
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice F

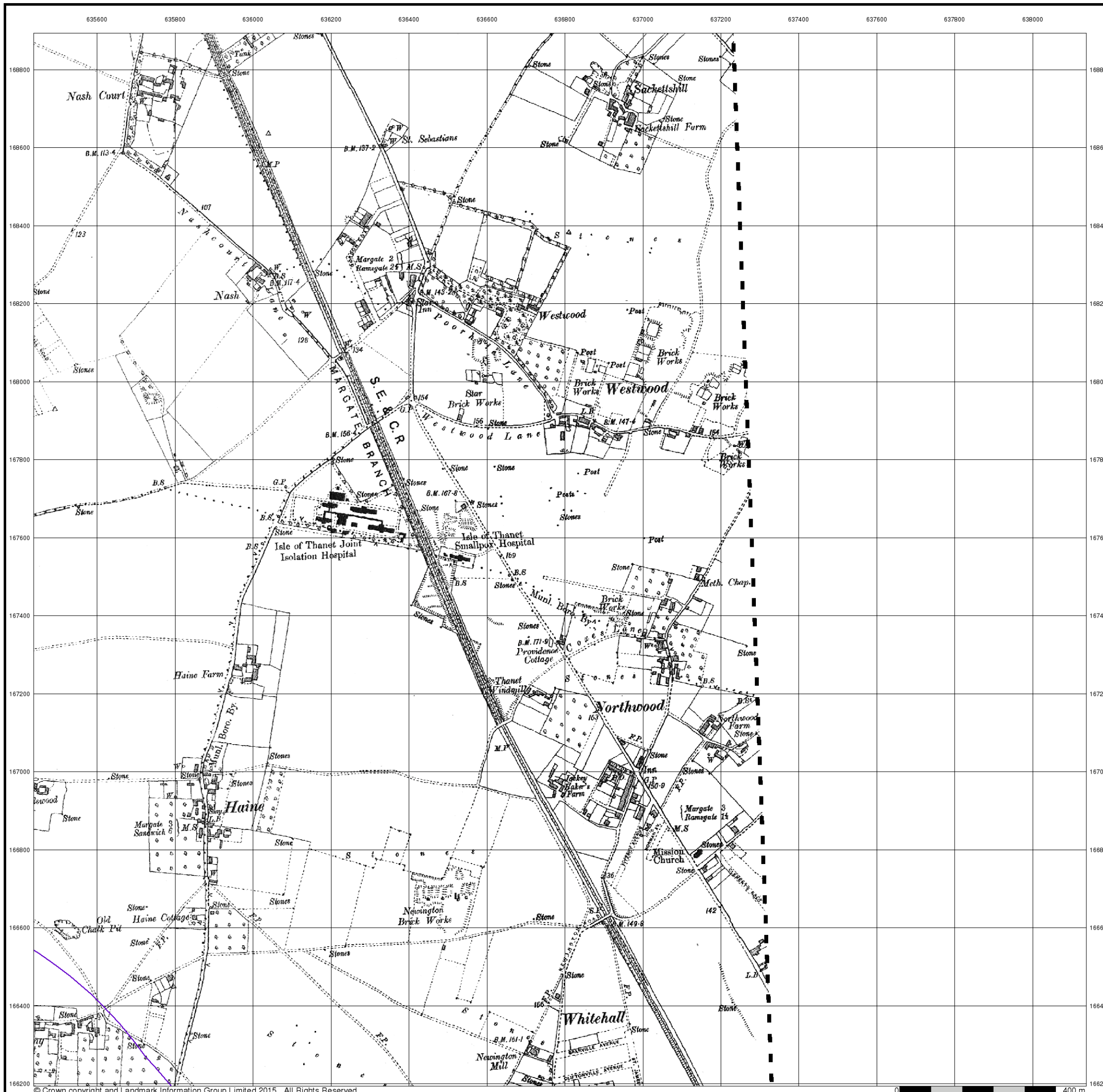


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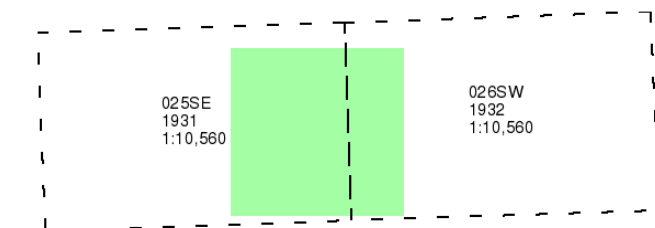
Kent

Published 1931 - 1932

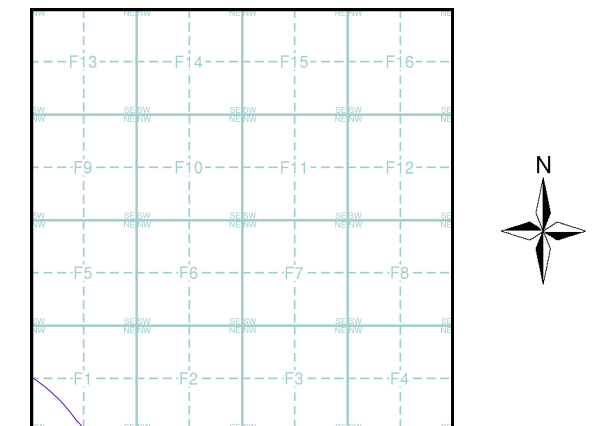
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice F

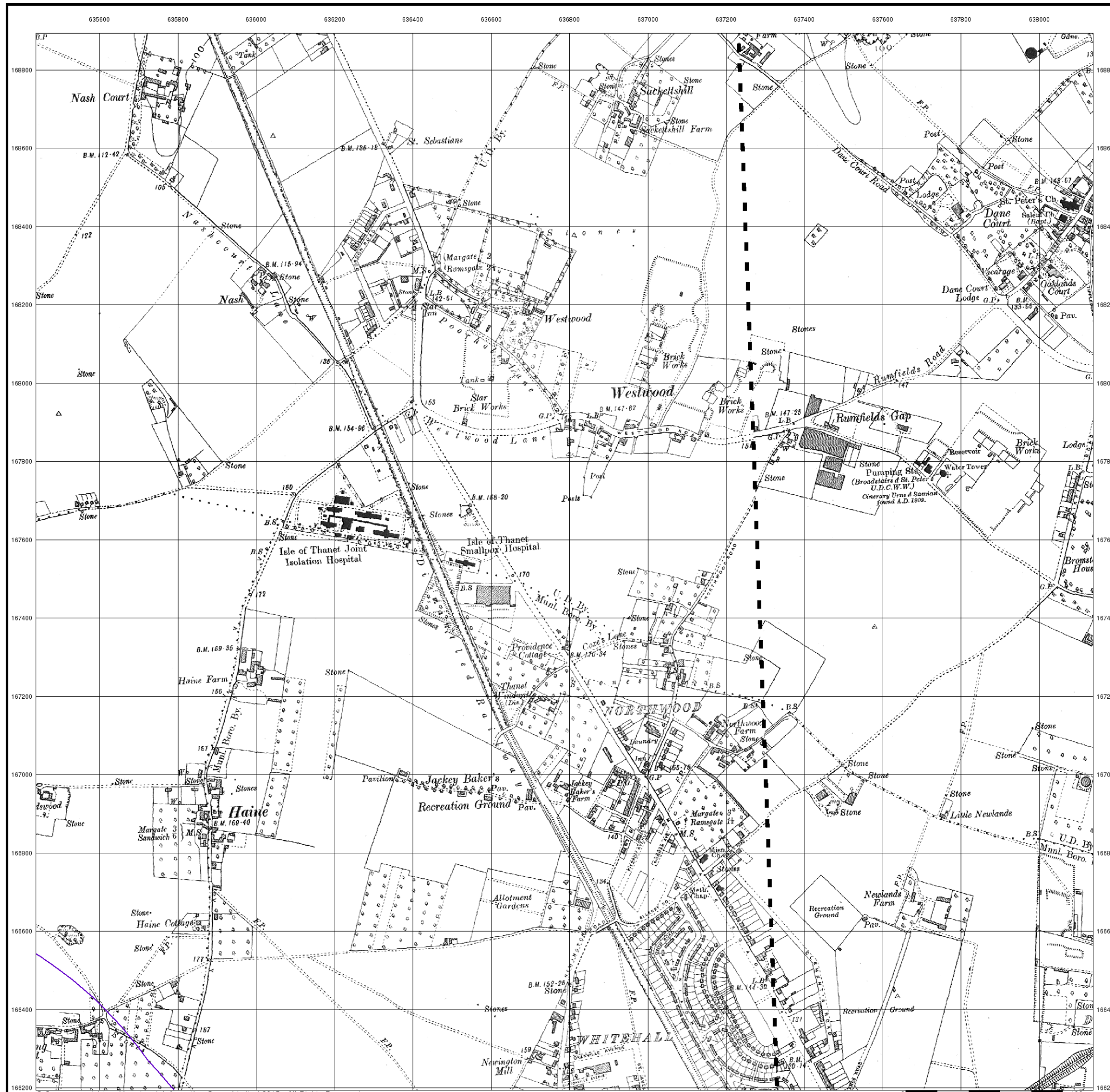


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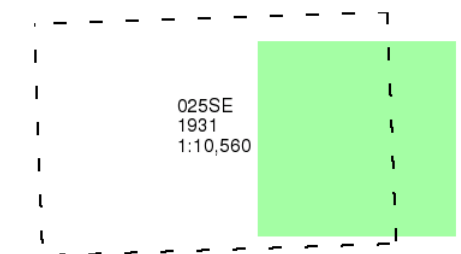
Kent

Published 1931

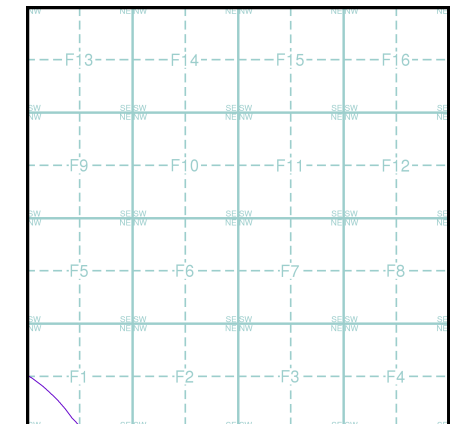
Source map scale - 1:10,560

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

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Historical Map - Slice F

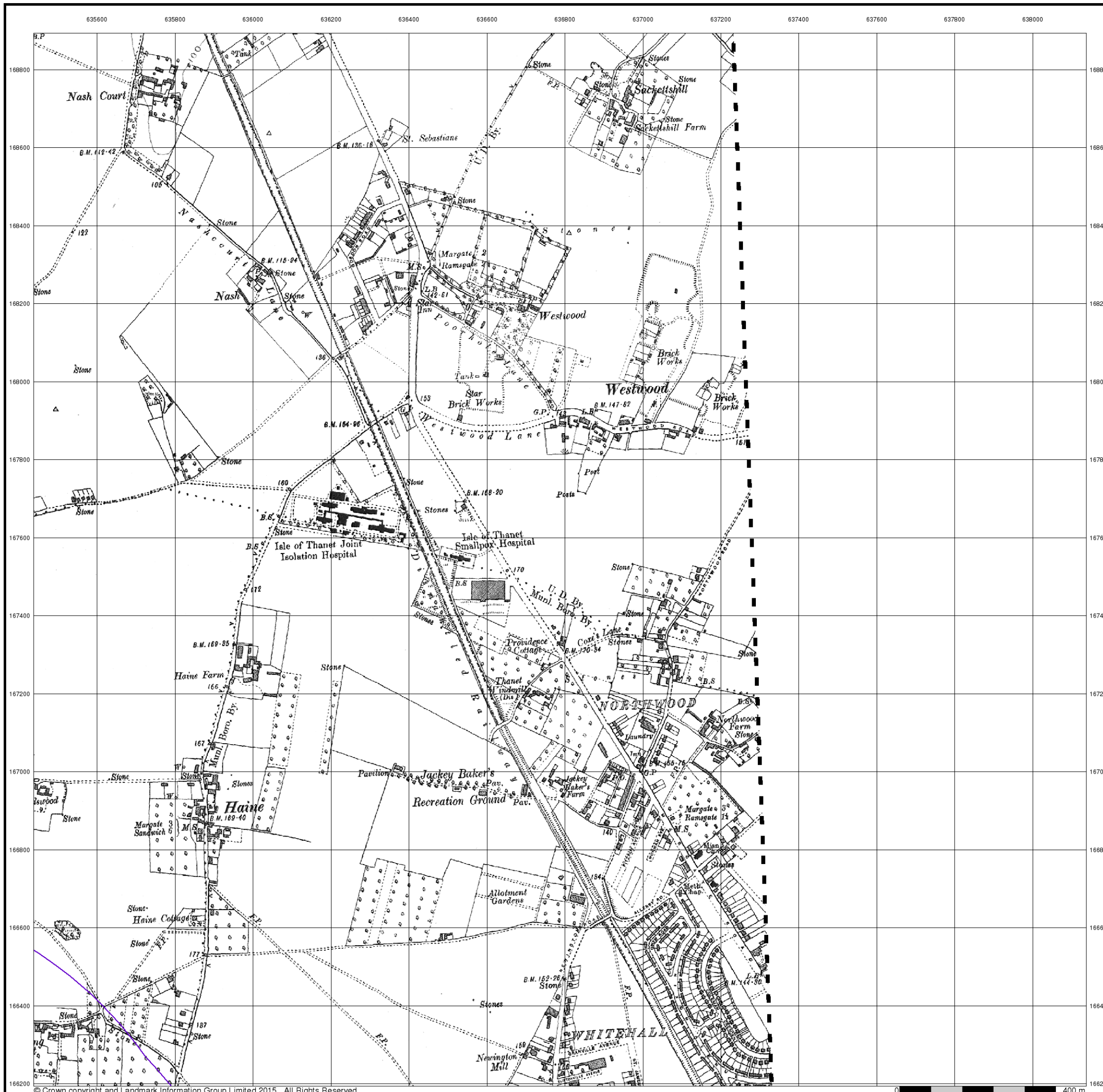


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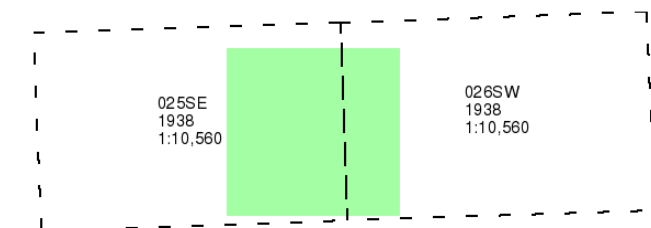
Kent

Published 1938

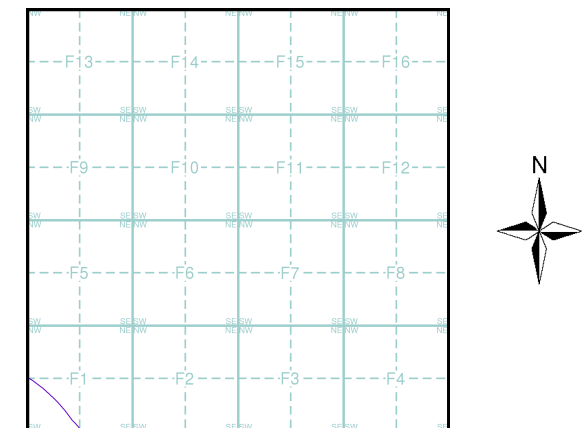
Source map scale - 1:10,560

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

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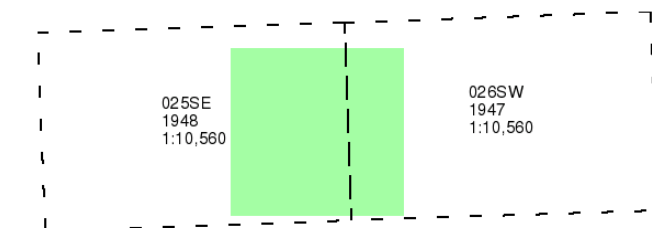
Kent

Published 1947 - 1948

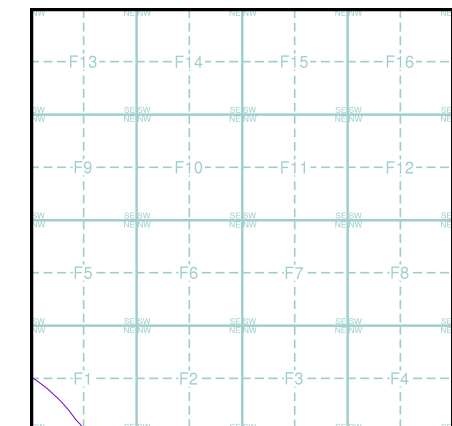
Source map scale - 1:10,560

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

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Site Details

Kent International Airport Ltd, Kent International Airport,
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Historical Aerial Photography

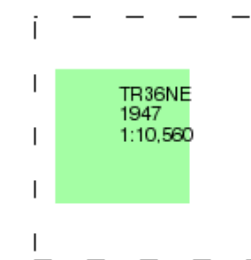
Published 1947

Source map scale - 1:10,560

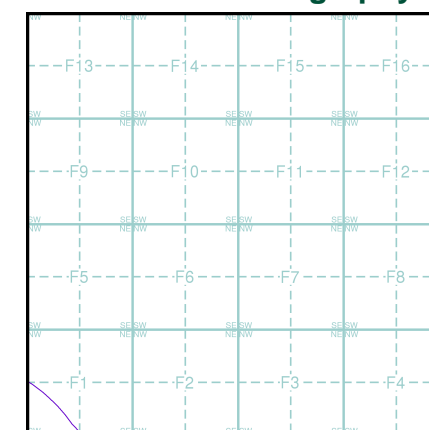
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice F



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Kent International Airport Ltd, Kent International Airport,
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Historical Aerial Photography

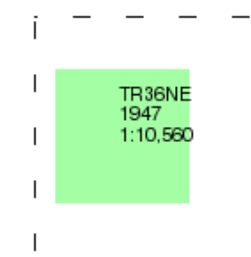
Published 1947

Source map scale - 1:10,560

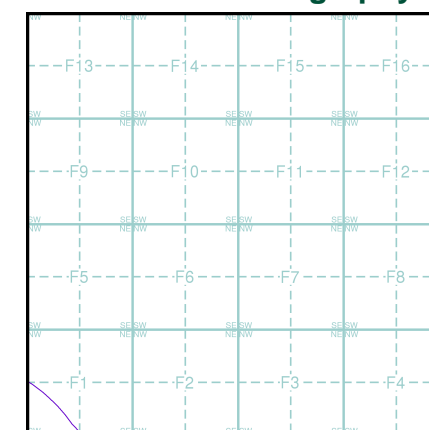
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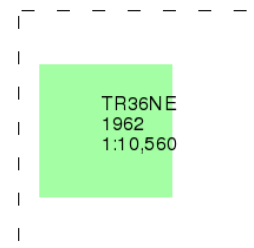
Ordnance Survey Plan

Published 1962

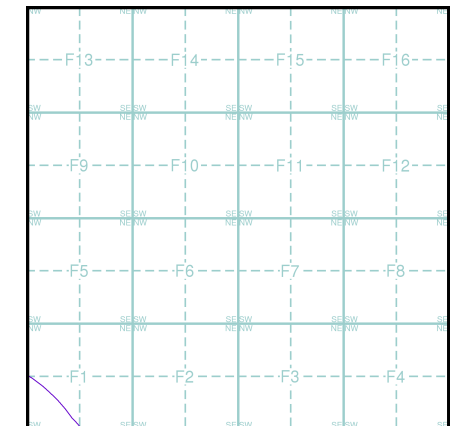
Source map scale - 1:10,000

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

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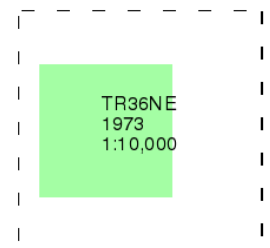
Ordnance Survey Plan

Published 1973

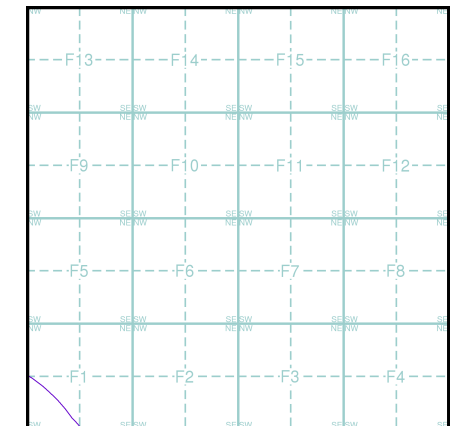
Source map scale - 1:10,000

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

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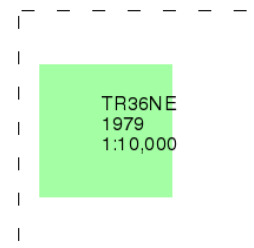
Ordnance Survey Plan

Published 1979

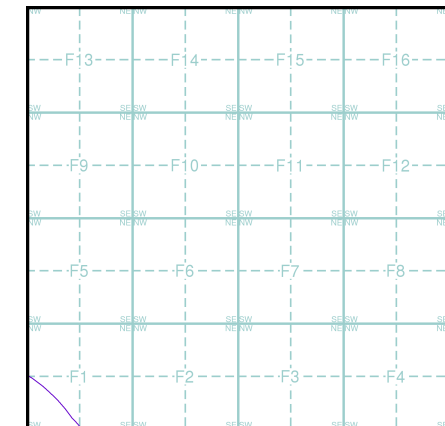
Source map scale - 1:10,000

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

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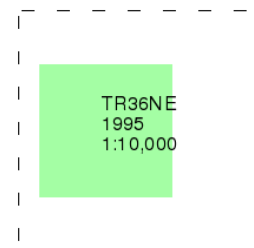
Ordnance Survey Plan

Published 1995

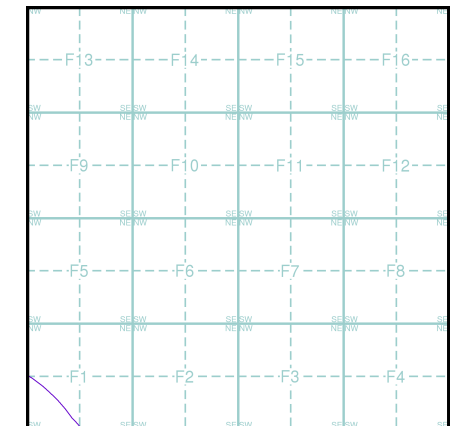
Source map scale - 1:10,000

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

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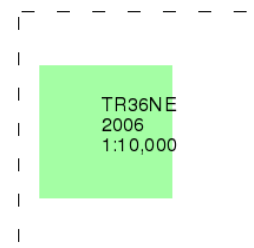
10k Raster Mapping

Published 2006

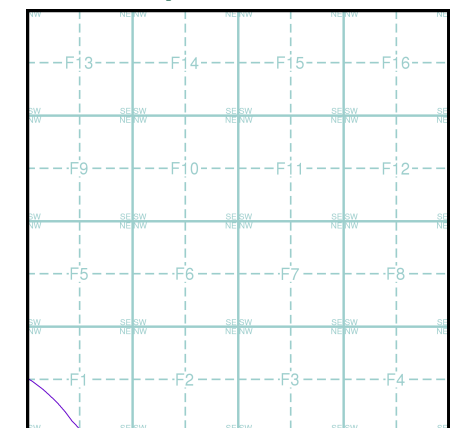
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice F

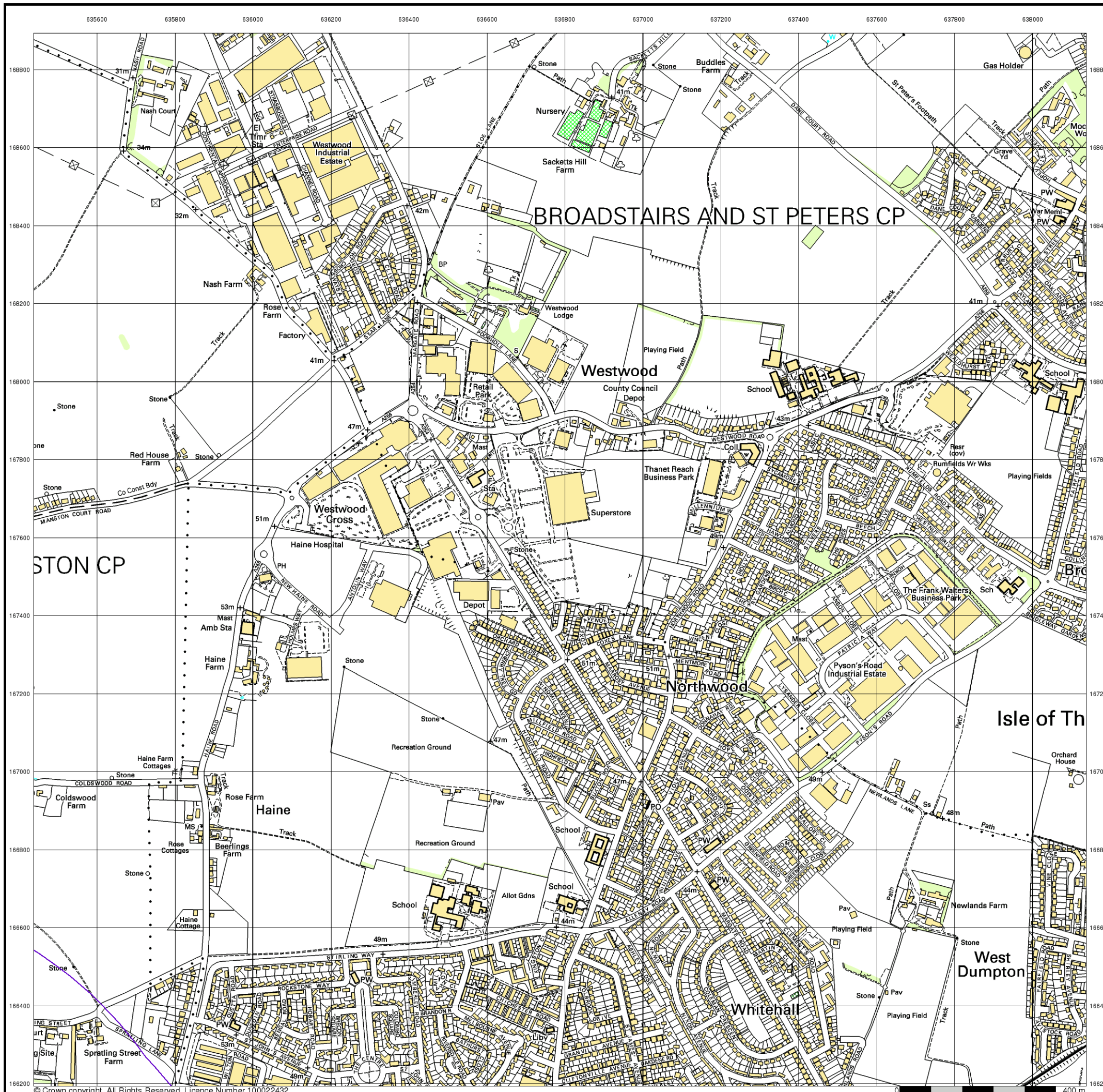


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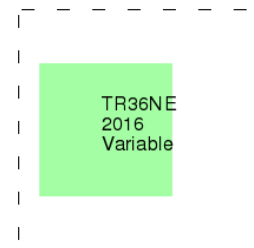
VectorMap Local

Published 2016

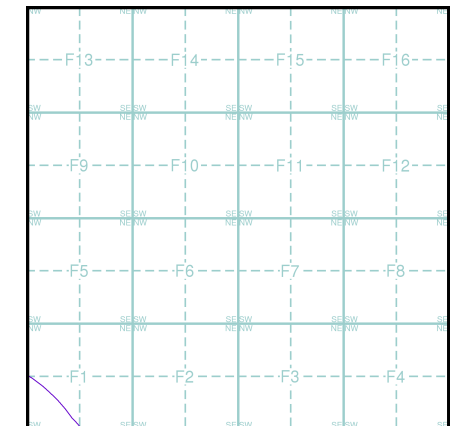
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice F

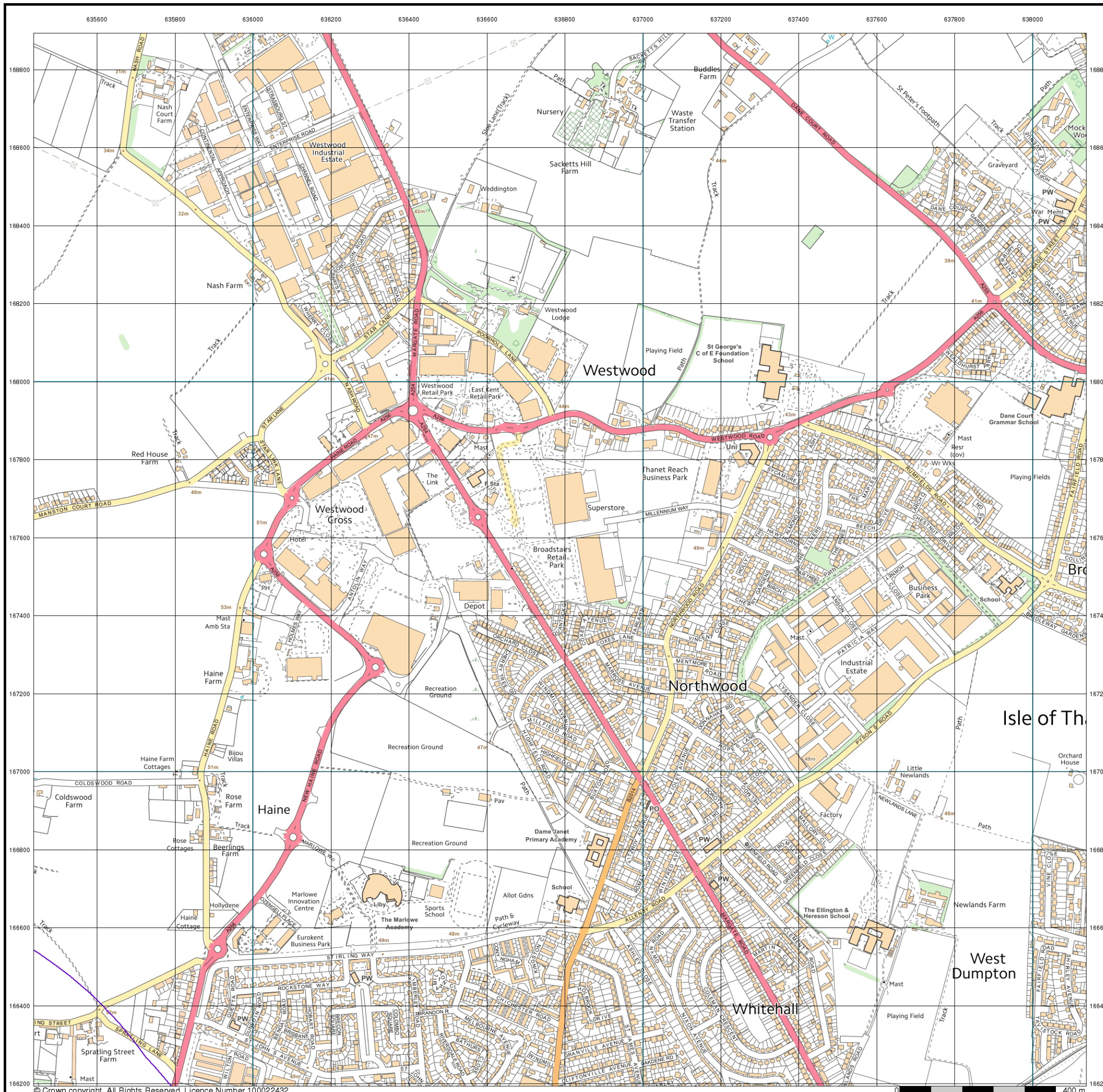


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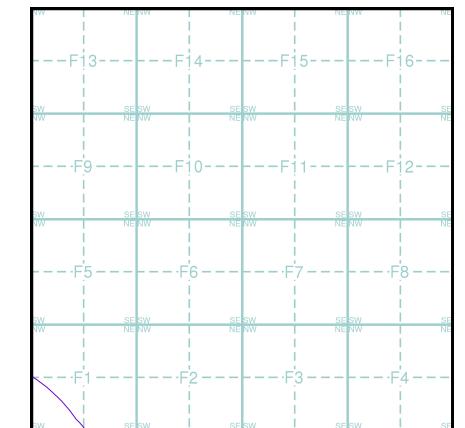
Site Details

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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Slice F

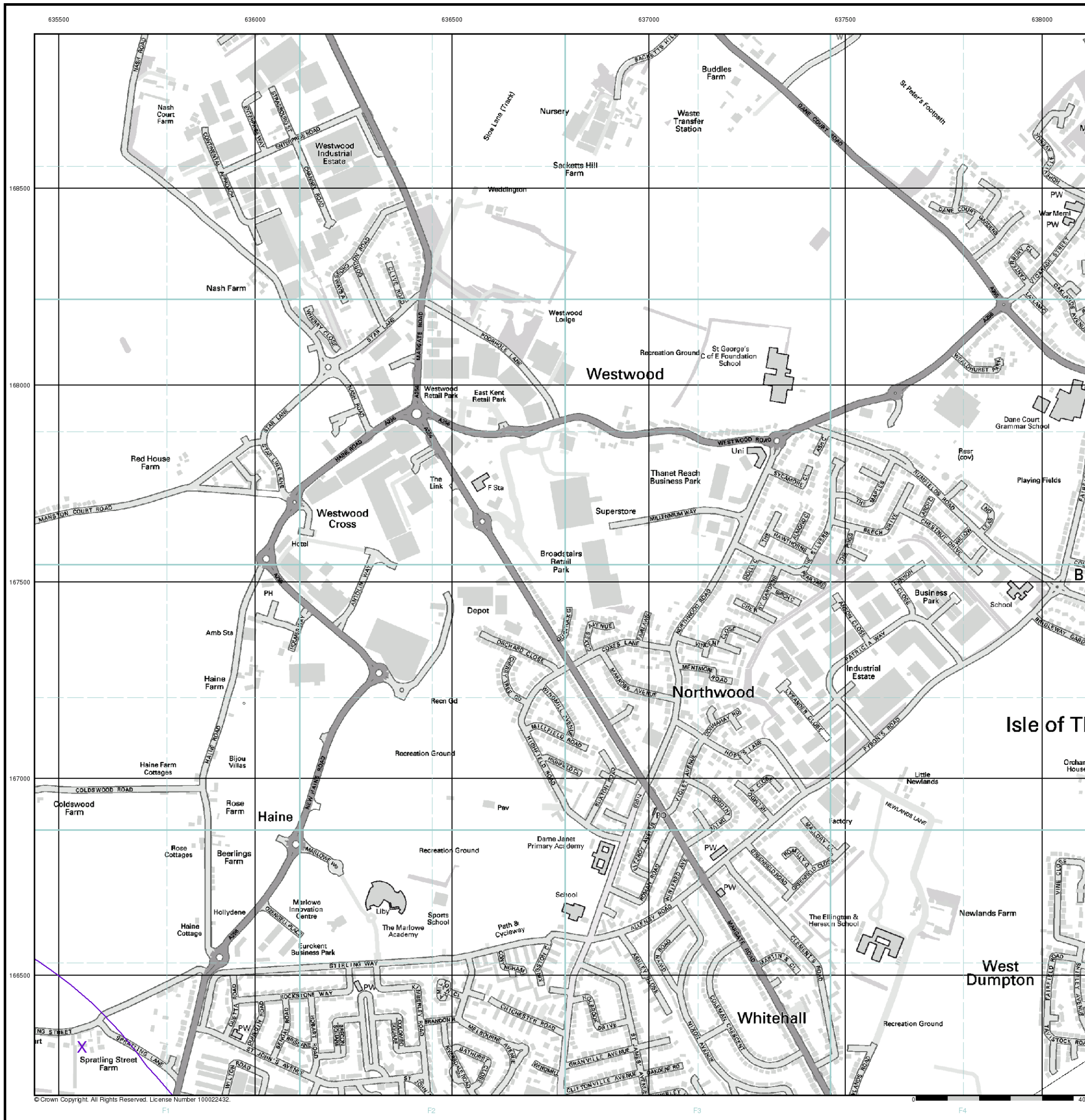


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

Kent International Airport Ltd, Kent International Airport,
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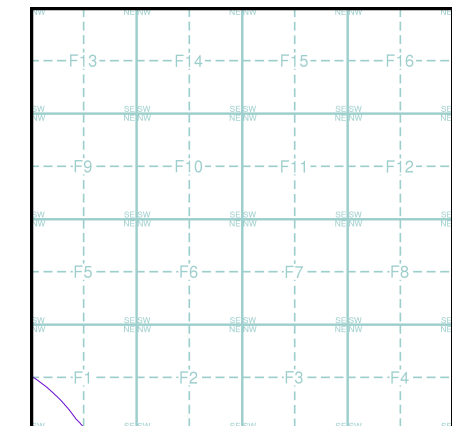
General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Agency and Hydrological (Flood)

-  Extreme Flooding from Rivers or Sea without Defences (Zone 2)
-  Flooding from Rivers or Sea without Defences (Zone 3)
-  Area Benefiting from Flood Defence
-  Flood Water Storage Areas
-  Flood Defence

Flood Map - Slice F

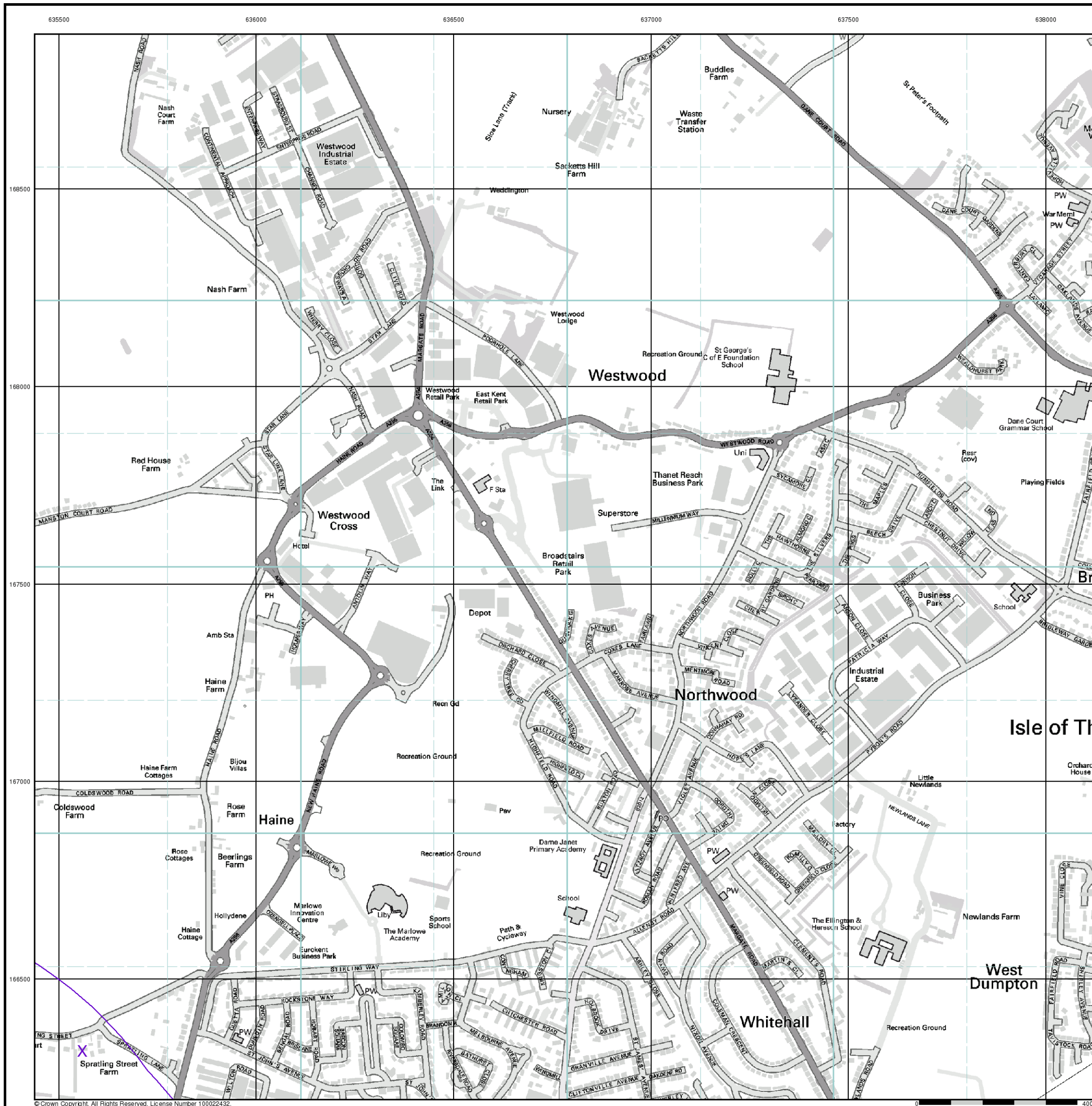


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General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID
-  Several of Type at Location

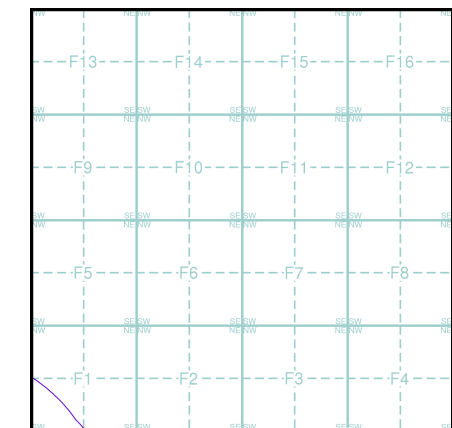
Agency and Hydrological (Boreholes)

-  BGS Borehole Depth 0 - 10m
-  BGS Borehole Depth 10 - 30m
-  BGS Borehole Depth 30m +
-  Confidential
-  Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice F



Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

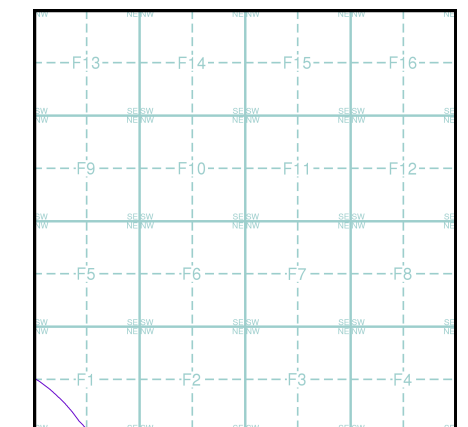
Detailed River Network Data

- Primary River
- Extended Culvert (greater than 50m)
- Secondary River
- Underground River (inferred)
- Tertiary River
- Underground River (local knowledge)
- Canal
- Downstream of High Water Mark
- Canal Tunnel
- Downstream of Seaward Extension
- Undefined River
- Not assigned River feature
- Lake/Reservoir
- Offline Drainage Feature

Contours (height in metres)

- Standard Contour 105
- Master Contour 100
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

EANRW Detailed River Network Map - Slice F

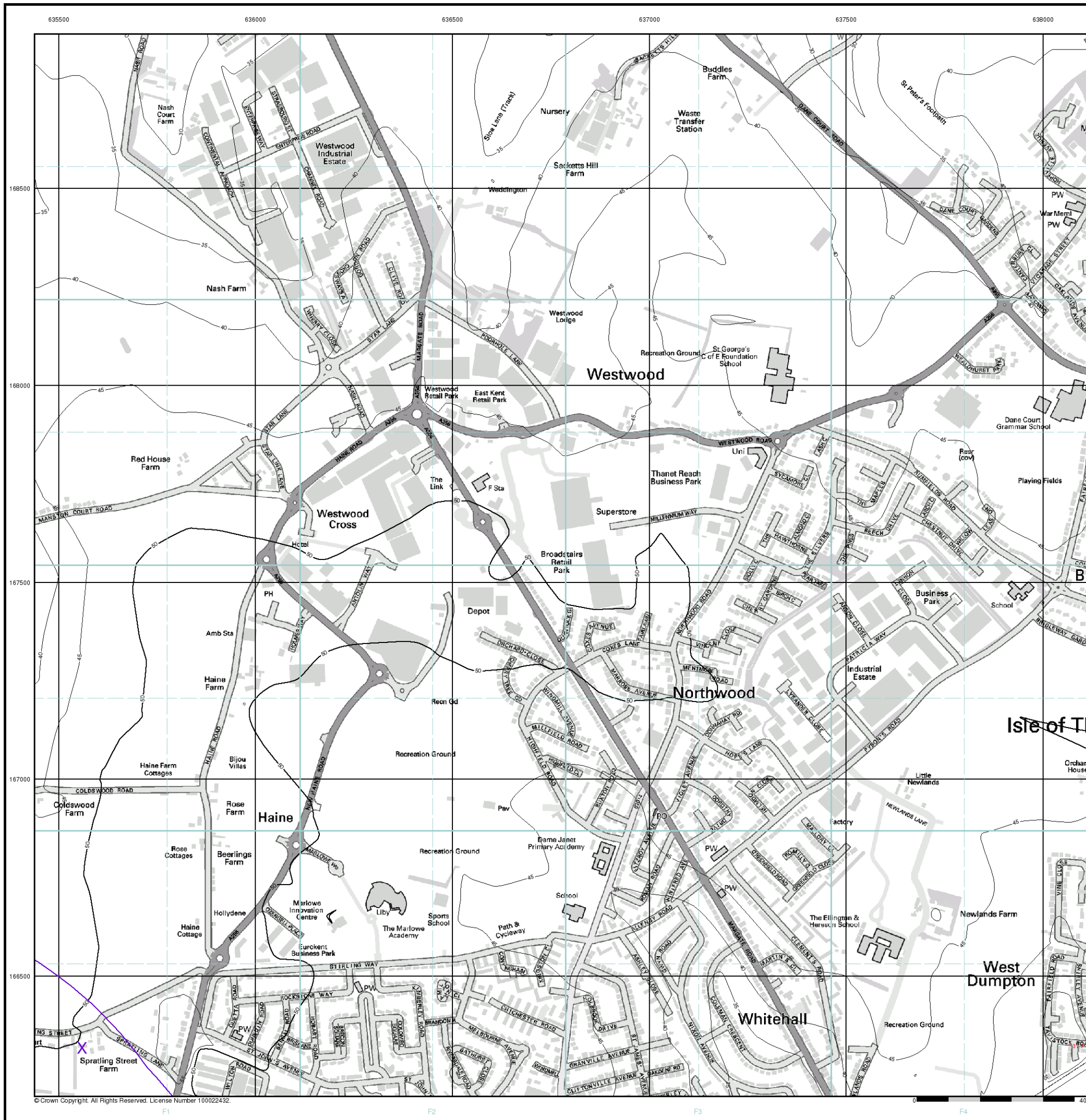


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000




Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



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General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Risk of Flooding from Surface Water

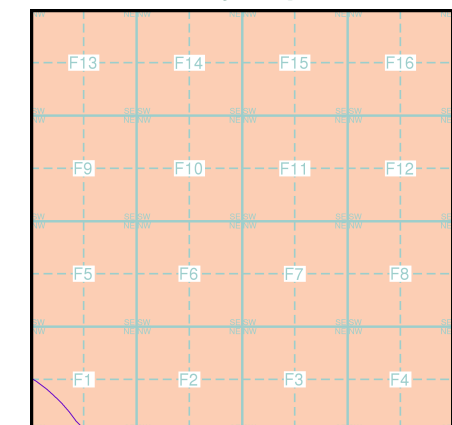
-  High - 30 Year Return
-  Medium - 100 Year Return
-  Low - 1000 Year Return

Suitability

See the suitability map below

-  National to county
-  County to town
-  Town to street
-  Street to parcels of land
-  Property

EANRW Suitability Map - Slice F

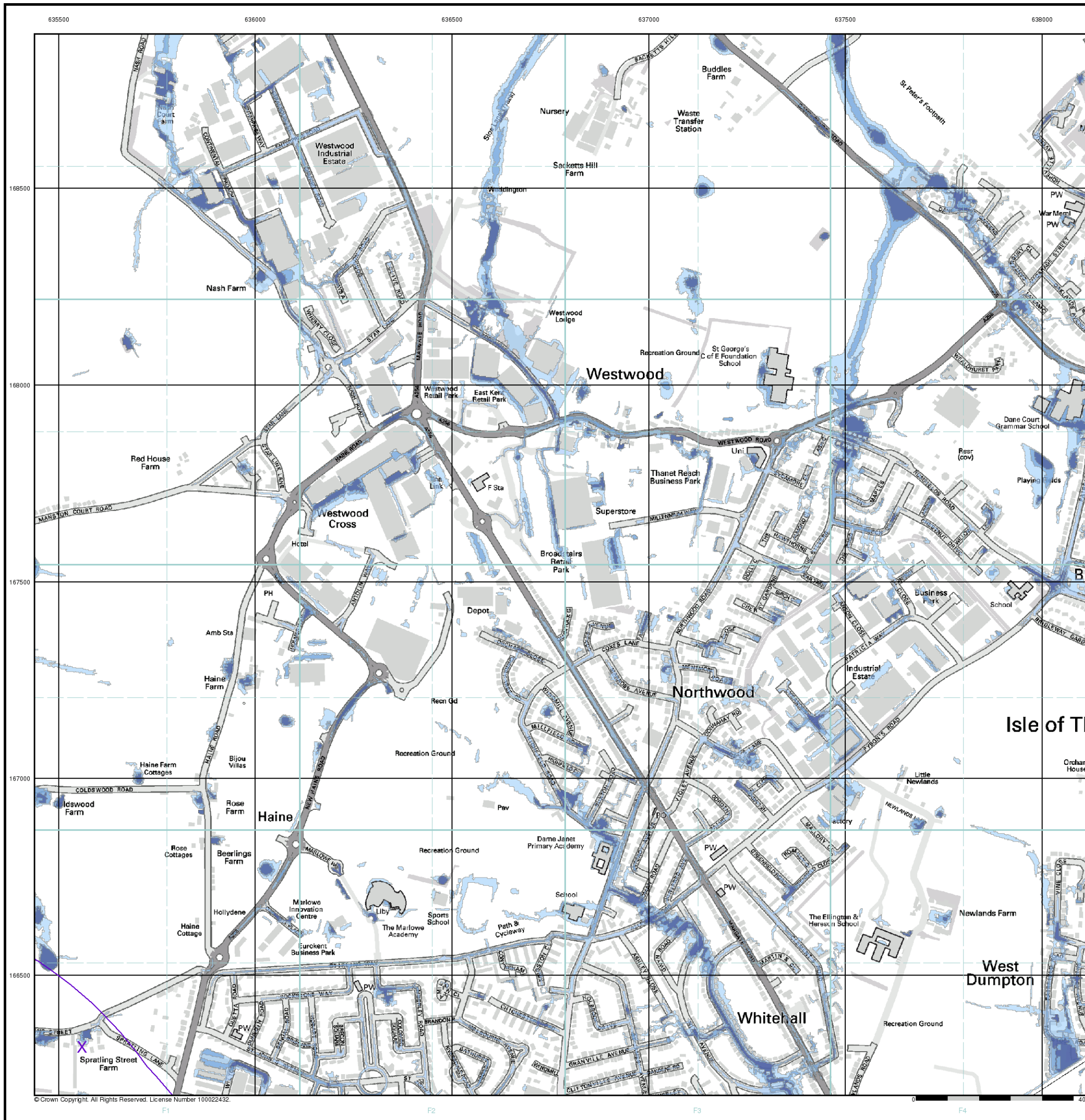


Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



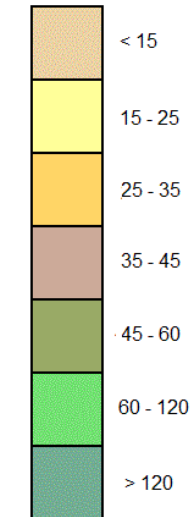
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General

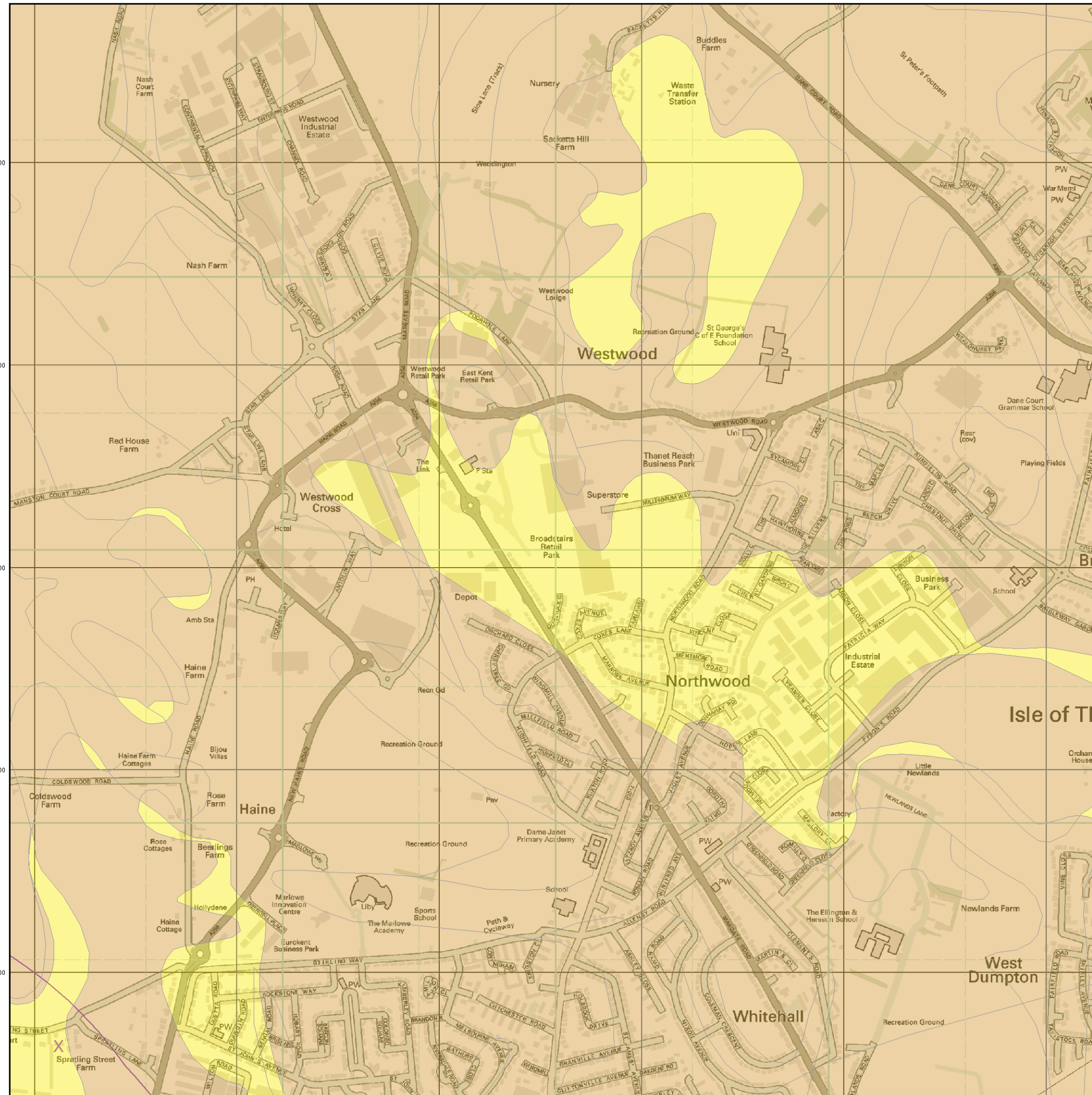
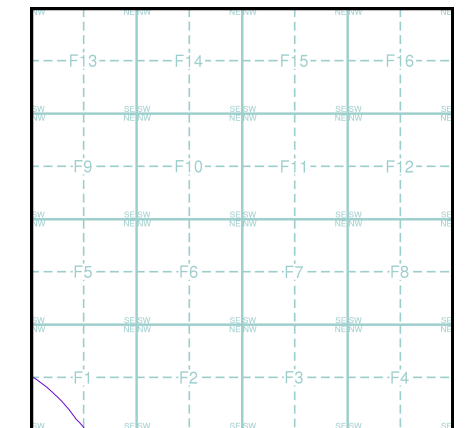
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice F



Order Details

Order Details: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

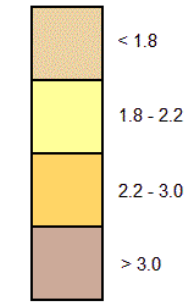
Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL

General

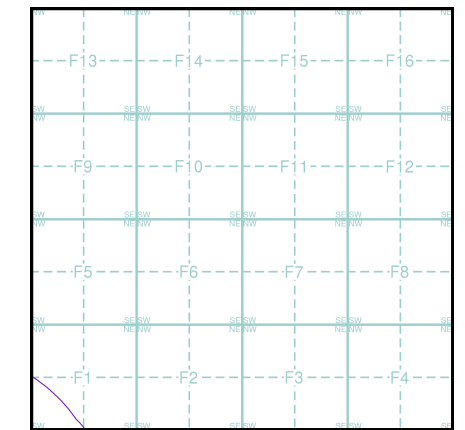
- ✱ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice F



Order Details

Order Details: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL

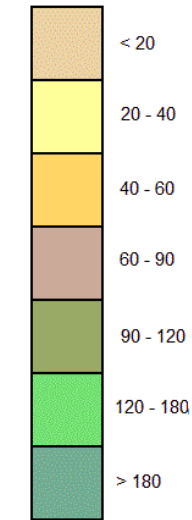


General

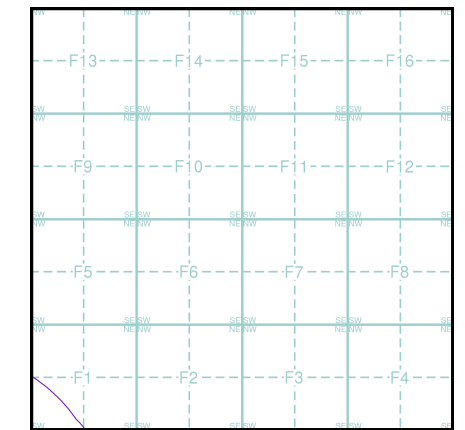
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice F



Order Details

Order Details: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL

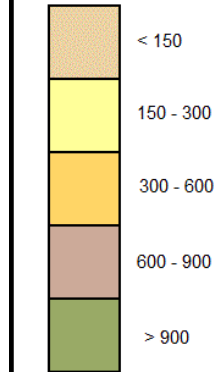


General

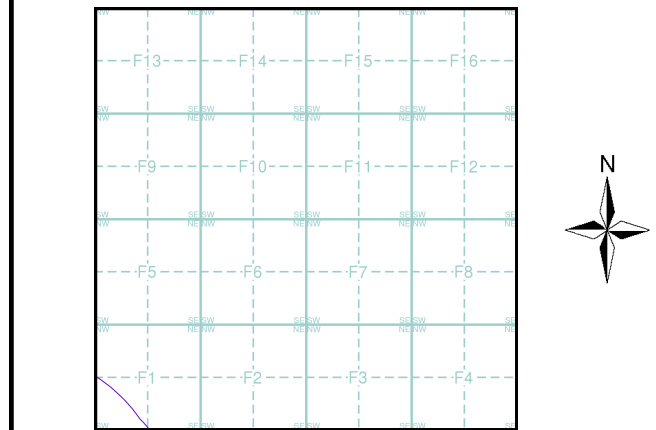
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice F



Order Details

Order Details: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL

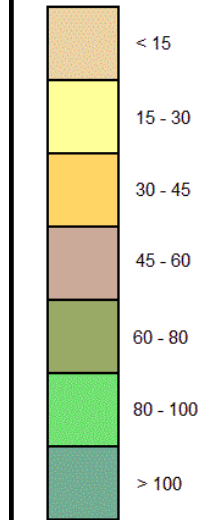


General

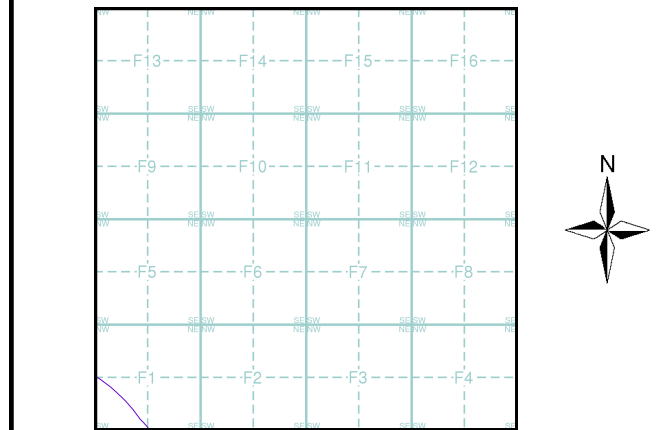
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice F



Order Details

Order Details: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 635560, 166320
 Slice: F
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

Site Details

Kent International Airport Ltd, Kent International Airport,
 Manston, RAMSGATE, Kent, CT12 5BL



Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms V Dahmoun, Amec Foster Wheeler E & I UK Ltd, Floor 4, 60 London Wall, London, United Kingdom, EC2M 5TQ

Order Details

Order Number: 82787389_1_1
 Customer Ref: 38199-15
 National Grid Reference: 633340, 165960
 Site Area (Ha): 306.39
 Search Buffer (m): 1000

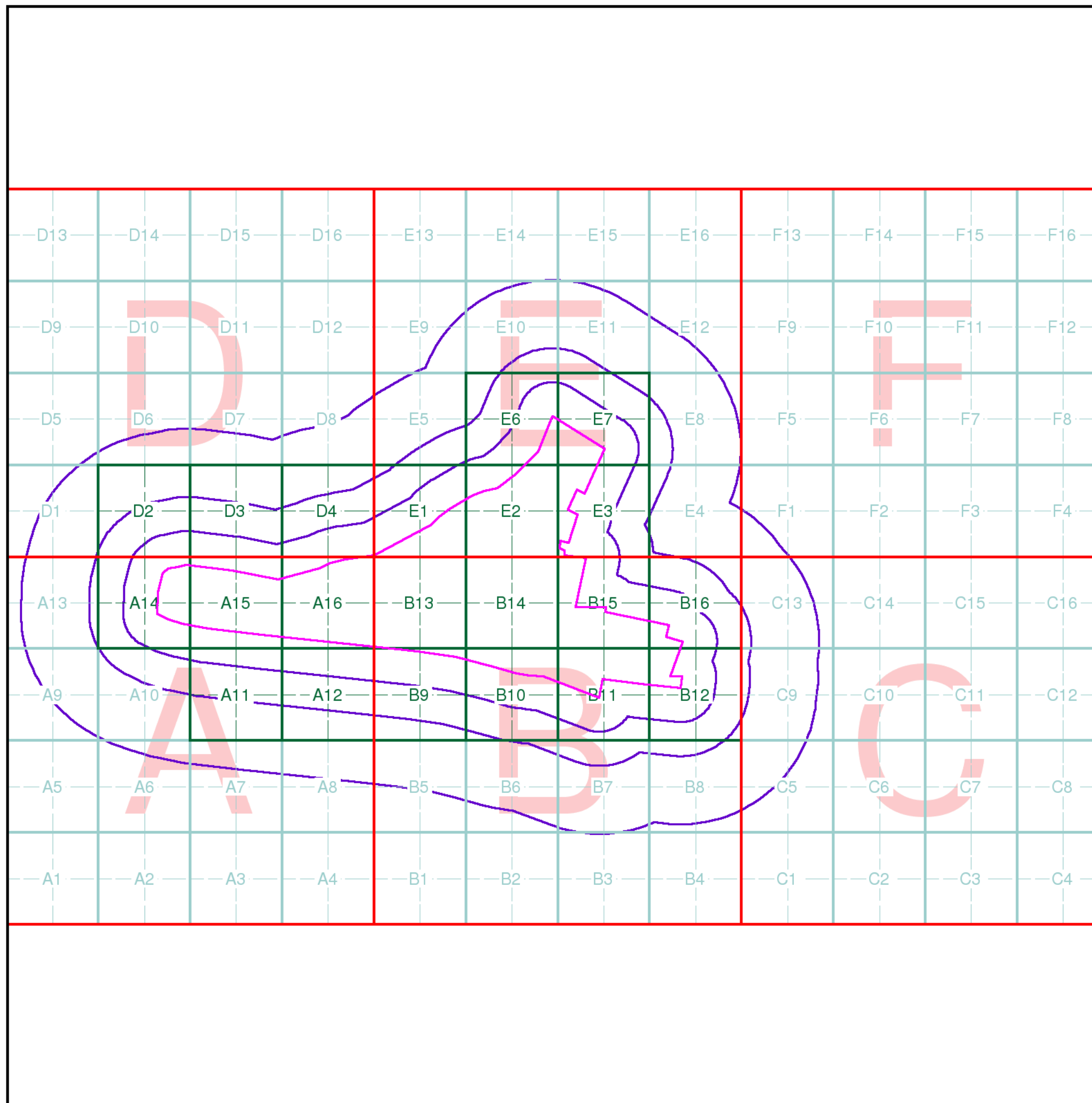
Site Details

Kent International Airport Ltd, Kent International Airport, Manston, RAMSGATE, Kent, CT12 5BL

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



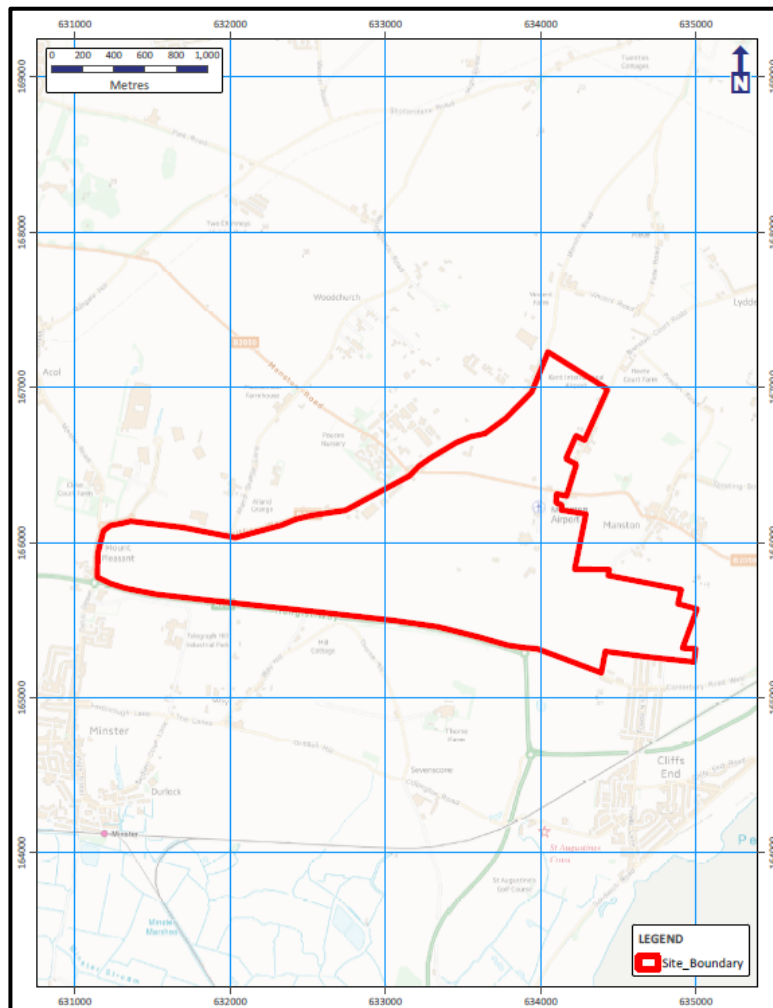


Appendix B

Preliminary Risk UXO assessment

Preliminary Unexploded Ordnance (UXO) Risk Assessment

Meeting the requirements of CIRIA C681 'Unexploded Ordnance (UXO) – A guide for the Construction Industry' Risk Management Framework



6 Alpha Project Number: P5188

Site: Kent International Airport Ltd, Kent International Airport, Manston, Ramsgate, Kent, CT12 5BL

Originator: Nathan Howard

Released By: Rachel Bullock (18th March 2016)

 **Envirocheck**[®]

 **Landmark**[®]
Information Group


alpha
ASSOCIATES
special risks consultancy

Study Site

The Study Site is described as 'Kent International Airport Ltd, Manston, Ramsgate, Kent, CT12 5BL', and it is centred on National Grid Reference 633340, 165960.

Threat Potential

UXO PROBABILITY ASSESSMENT = 4 RATING, INDICATING A
MEDIUM/HIGH PROBABILITY OF UXO ENCOUNTER

The rating scale can be seen on *Figure 2* (Probability of UXO Encounter). In accordance with current guidelines (*CIRIA C681 Chapter 5*), the highest risk rating has been determined at this specific site for UXO risk consideration and has been used for the final assessment and recommendations.

Summary

During WWII the Study Site was situated within *Eastry Rural District* and *Ramsgate Municipal Borough*, which recorded 3 and 53 High Explosive (HE) bomb strikes per 100 hectares; a low and high level of bombing.

Luftwaffe aerial reconnaissance photography associated with the Site identified an airfield (located on-Site) as a primary bombing target.

Air Raid Precaution (ARP) records reveal that a container holding up to 250 bombs was dropped on-Site. In addition, further research reveals that *Manston* airfield (located on-Site) was subjected to heavy bombing during WWII.

Official bomb damage mapping could not be located. Despite this, further research suggests that a number of on-Site buildings sustained significant bomb damage during WWII.

Given the existence of an airfield on-Site; it would suggest that further action is warranted to address the potential for UXO encounter.

Recommendations

In accordance with *CIRIA C681 Chapter 5* on managing UXO risks, *6 Alpha* recommends that the next stage in the risk management framework is:

DETAILED UXO THREAT & RISK ASSESSMENT

We would be pleased to provide this service, please contact *Envirocheck* for further details:

Telephone: +44 (0)844 844 9952

Email: customerservice@envirocheck.co.uk

Using This Report

This Preliminary Assessment is designed to inform environmental and construction professionals of the potential threat of military related explosives and/or ordnance on, or in, the vicinity of the Study Site.

This assessment is designed to be employed as a site-screening tool to meet with the requirement of Phase One of the *CIRIA UXO Risk Management Framework*; there are two broad prospective outcomes; either the threat level requires a Detailed Threat and Risk Assessment; or no further action is required. In the former instance we can provide a report within 14 working days (or more quickly upon application).

Two figures accompany the report, the *Second World War* (WWII) High Explosive (HE) Bomb Density and the final Probability of UXO Encounter. The purpose of this approach is to demonstrate that whilst bomb density statistics give an indication for WWII bombing, they should not be relied upon exclusively to generate a holistic assessment.












For further information, please contact *Envirocheck*:

Telephone: +44 (0)844 844 9952

Website: <http://www.envirocheck.co.uk>

Email: customerservice@envirocheck.co.uk

Data Findings

Threat Source (Within 1,000m)	Detail	
	Identified	Comments
 Airfields/Military Facilities	✓	<i>Royal Air Force (RAF) Manston</i> airfield and <i>Manston</i> camp were located on-Site.
 Ordnance Manufacture/Storage	✗	None recorded within 1,000m.
 WWII Decoy Bombing Sites	✓	A decoy site was located 305m to the north.
 WWII Defensive Features	✓	Seven pillboxes were located on-Site.
 WWII <i>Luftwaffe</i> Designated Bombing Targets	✓	<i>Luftwaffe</i> aerial photography identified an airfield (located on-Site) as a primary bombing target.
 Secondary Bombing Targets	✗	None recorded within 1,000m.
 WWII Bomb Strikes Within Site Boundary	✓	ARP records identified that a container holding up to 250 bombs (possibly incendiary bombs) was dropped on-Site.
 WWII Bomb Strikes Near Site Boundary	✓	Research verified that the immediate area was heavily bombed during WWII.
 WWII Bomb Damage	✓	Further investigation confirmed that on-Site buildings sustained bomb damage.
 Abandoned Bomb Register	✗	None recorded within 1,000m.
 WWII Bombing Density Per 100 Hectares	✓	<i>Eastry Rural District</i> and <i>Ramsgate Municipal Borough</i> recorded 3 and 53 HE bomb strikes per 100 hectares.

Important Notes

1. The term 'Preliminary UXO Risk Assessment' has been used to describe this report, to fall in line with the *CIRIA C681* guidelines. Whilst the term 'Risk' can be justifiably used at this stage, the reader should note that the 'Consequence' function of 'Risk' is not considered. Should it be required, this would be addressed in the 'Detailed UXO Threat & Risk Assessment' (Stages 2 and 3).
2. This report is accurate and up to date at the time of writing.
3. The assessment levels have been generated from historical data and third party sources. Where possible *6 Alpha* have sought to verify the accuracy of such data, but cannot be held accountable for inherent errors that may be in third party data sets (e.g. *National Archives* or library sources).
4. *6 Alpha* have exercised all reasonable care, skill and due diligence in producing this service.
5. Whilst every effort has been used to identify all potential UXO/explosive threats, there were a number of private facilities, which may not have released privately recorded information concerning UXO/explosive threats into the public domain. It is therefore possible that some of the aforementioned sites may not be included within the database.

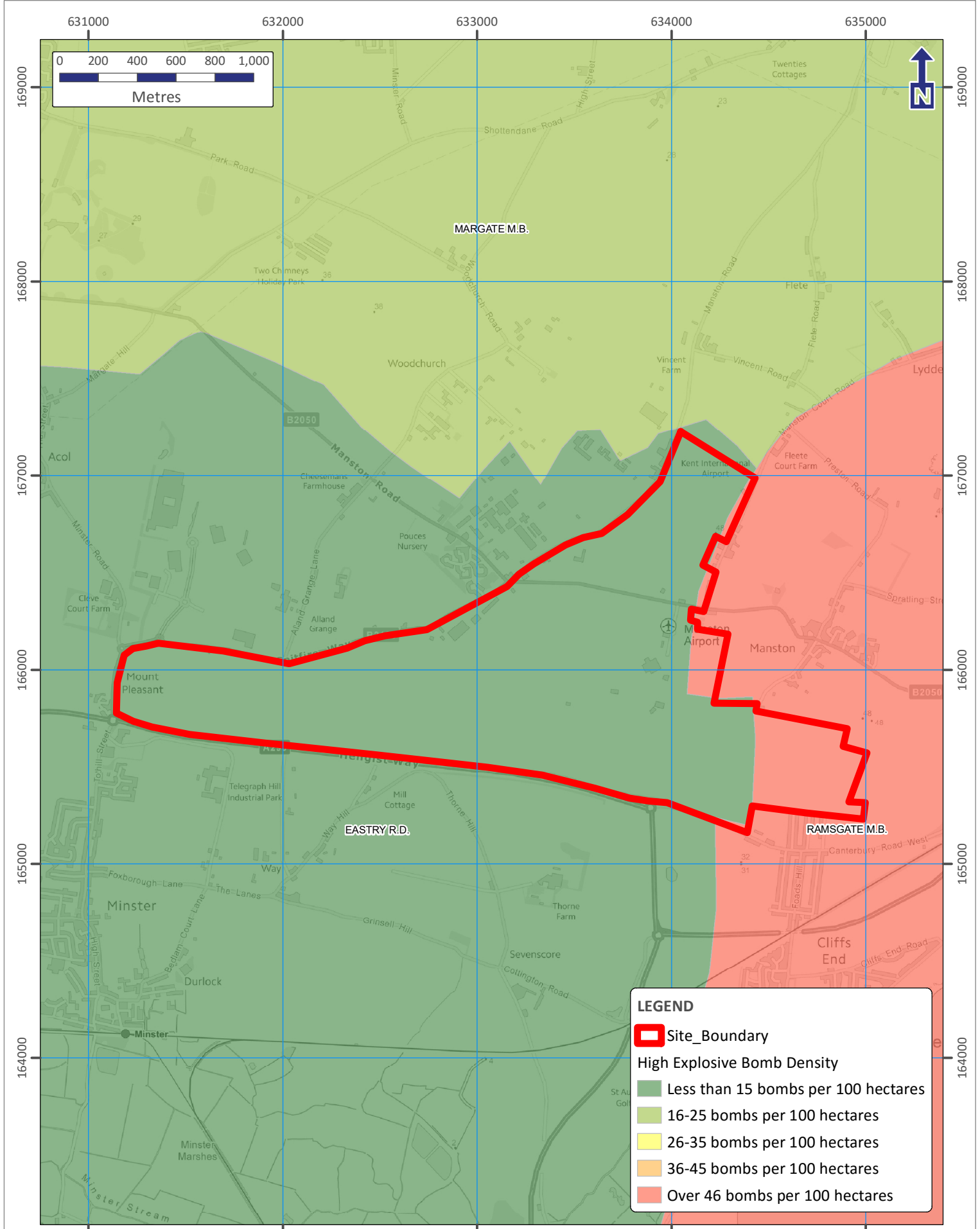


KENT INTERNATIONAL AIRPORT LTD, MANSTON, RAMSGATE, KENT, CT12 5BL

WWII High Explosive Bomb Density



BRITISH NATIONAL GRID



LEGEND

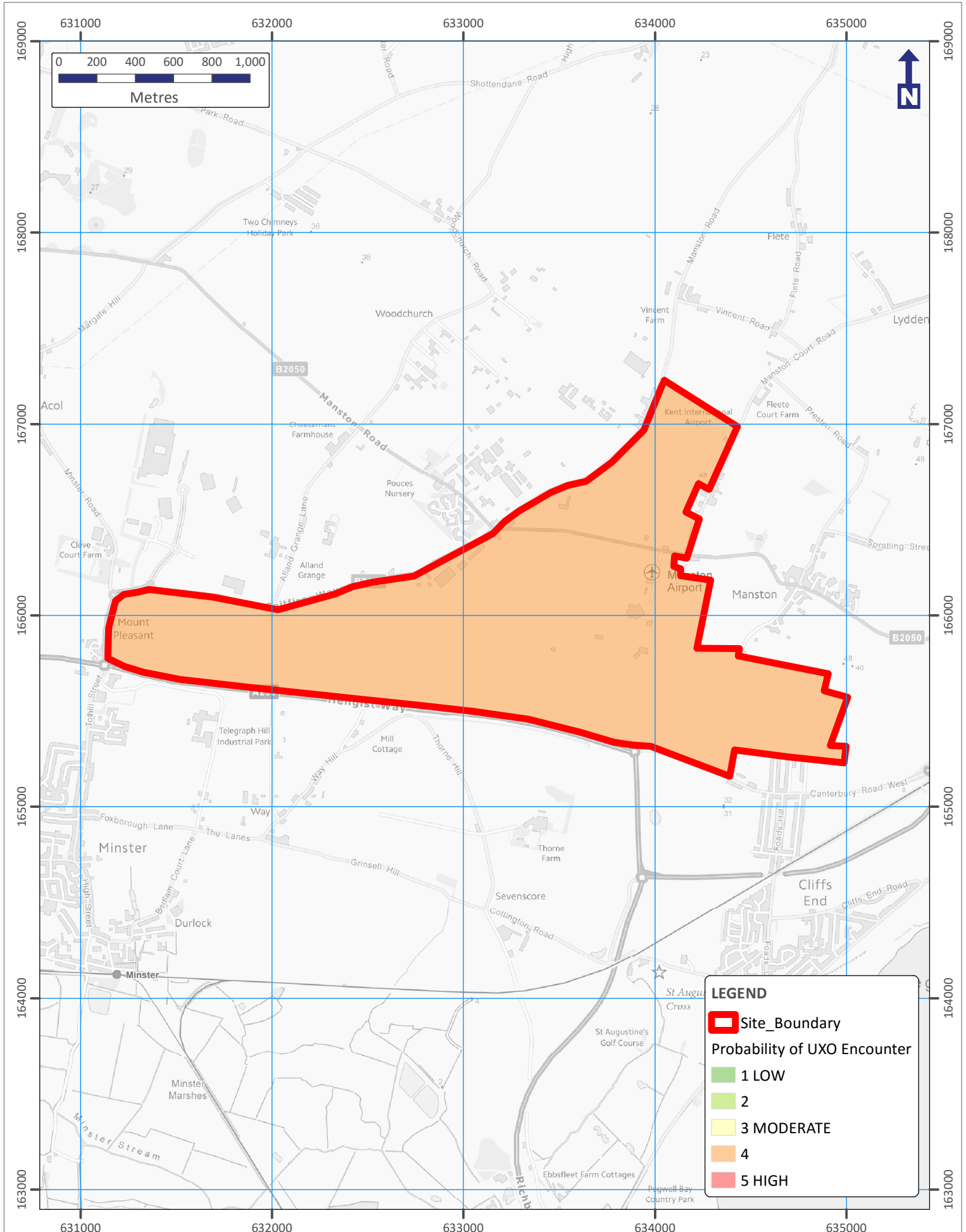
- Site_Boundary
- High Explosive Bomb Density**
 - Less than 15 bombs per 100 hectares
 - 16-25 bombs per 100 hectares
 - 26-35 bombs per 100 hectares
 - 36-45 bombs per 100 hectares
 - Over 46 bombs per 100 hectares



KENT INTERNATIONAL AIRPORT LTD, MANSTON, RAMSGATE, KENT, CT12 5BL



Probability of UXO Encounter



LEGEND

- Site_Boundary
- Probability of UXO Encounter**
- 1 LOW
- 2
- 3 MODERATE
- 4
- 5 HIGH



Appendix C

Environmental risk assessment methodology



The environmental risk assessment aims to assess the significance of each potential contaminant linkage. Each potential linkage is qualitatively assessed using the following criteria:

- ▶ potential consequence of contaminant – receptor linkage;
- ▶ likelihood of contaminant – receptor linkage; and
- ▶ risk classification.

The definitions for the qualitative risk assessment have been taken from "Guidance for the Safe Development of Housing on Land Affected by Contamination" Annex 4 R&D Publication 66: 2008 Volume 2.

The Likelihood Probability Classifications of SPR Linkage being realised is presented in Table C.1

Table C.1 Likelihood Probability Classifications of SPR Linkage being realised

Classification	Definition	Examples
Unlikely	There is pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.	a) Elevated concentrations of toxic contaminants are present below hardstanding. b) Light industrial unit <10 yrs old containing a double skinned UST with annual integrity testing results available.
Low Likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.	a) Elevated concentrations of toxic contaminants are present in soils at depths >1m in a residential garden, or 0.5-1.0m in public open space. b) Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years – the tank is double skinned but there is no integrity testing or evidence of leakage.
Likely	There is pollutant linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.	a) Elevated concentrations of toxic contaminants are present in soils at depths of 0.5-1.0m in a residential garden, or the top 0.5m in public open space. b) Ground/ groundwater contamination could be present from an industrial site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.
High Likelihood	There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution	a) Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden. b) Ground/groundwater contamination could be present from chemical works, containing a number of USTs, having been in operation on the same site for over 50 years.

“Potential Consequence of Contaminant Linkage” gives an indication of the sensitivity of a given receptor to a particular source or contaminant of concern under consideration. It is a worst case classification and is based on full exposure via the particular linkage being examined. The classification of consequence is presented in Table C.2



Table C.2 Outline of Worst-Case Hazard Consequence Classifications for Receptor Types from Contamination Impact:

Classification	Human Health	Controlled Water	Ecology	Property Structures/ Crops and animals	Examples
Severe	Highly elevated concentrations likely to result in “significant harm” to human health as defined by the EPA 1990, Part 2A, if exposure occurs.	Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce.	Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population.	Catastrophic damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Major fish kill in surface water from large spillage of contaminants from site. Highly elevated concentrations of Hazardous or priority substances present in groundwater close to small potable abstraction (high sensitivity). Explosion, causing building collapse (can also equate to immediate human health risk if buildings are occupied).
Medium	Elevated concentrations which could result in “significant harm” to human health as defined by the EPA 1990, Part 2A if exposure occurs.	Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce.	Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population.	Significant damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Damage to building rendering it unsafe to occupy e.g. foundation damage resulting in instability. Ingress of contaminants through plastic potable water pipes.
Mild	Exposure to human health unlikely to lead to “significant harm”.	Equivalent to EA Category 3 pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce.	Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population.	Minor damage to crops, buildings or property.	Exposure could lead to slight short-term effects (e.g. mild skin rash). Surface spalling of concrete.



Classification	Human Health	Controlled Water	Ecology	Property Structures/ Crops and animals	Examples
Minor	No measurable effects on humans	Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.	Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.	Repairable effects of damage to buildings, structures and services.	The loss of plants in a landscaping scheme. Discoloration of concrete.



The risk matrix to link the likelihood and consequence is shown in Table C.3

Table C.3 Risk Matrix

Likelihood:	Unlikely	Low Likelihood	Likely	High Likelihood
Potential Consequence:				
Severe	Moderate/low	Moderate Risk	High Risk	Very High Risk
Medium	Low	Moderate/low	Moderate Risk	High Risk
Mild	Very low risk	Low Risk	Moderate/low	Moderate Risk
Minor	Very low risk	Very low risk	Low Risk	Low Risk

The overall risk definitions are summarised in Table E.4

Table E.4 Risk Definitions

Very Low	It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.
Low	It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/or occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.
Medium	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.
High	Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/or occupier. Investigation is required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short-term and are likely over the longer term.
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.



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Appendix D

Geotechnical risk register

Geotechnical Risk Register

GRR 01



AMEC Project Number: 38199
Project Title: Manston Airfield
Stage: Phase 1 Desk Study
Compiled by: BC Checked by: PMC

The risk register is a means of documenting perceived risks and their importance and recording actions taken to manage them. The key elements of a geotechnical risk register are as follows:

1. Identify the geotechnical risks.
2. Identify the methods of construction that may be incorporated into the project.
3. Scale the risks according to probability and impact.
4. Based on the severity of each risk, decide on the type of action.
5. Identify how each risk should be managed.
6. Record the actions taken to manage the risk.
7. Reassess the severity of each risk after action has been taken.
8. Review the risk register at regular intervals and communicate.

The risk register is a live document and should be reviewed on a regular basis and at the end of each stage of the project.

The probability (P) that a given event will occur is given by the following:

<u>Scale</u>	<u>Likelihood</u>	<u>Chance per section of work</u> (Amend to suit local conditions and to be agreed with the Client)
1	Negligible	< 1 in 100
2	Unlikely	1 in 100 to 1 in 10
3	Possible	1 in 10 to 1 in 5
4	Probable	1 in 5 to 1 in 2
5	Almost certain	> 1 in 2

The impact (I) of a given event is given by the following:

<u>Scale</u>	<u>Effect</u>	<u>Increase in cost or time (% increase)</u> (Amend to suit local conditions and to be agreed with the Client)
1	Negligible	< 1%
2	Very low	1% to 4%
3	Low	4% to 8%
4	High	8% to 15%
5	Very high	> 15%

The risk after the application of risk control measures should be reviewed in the light of the following table:

<u>Degree of Risk</u>	<u>Risk Level</u>	<u>Action Required</u>
1 - 4	Trivial	None
5 - 9	Tolerable	Consider more cost-effective solutions or improvements
10 - 15	Substantial	Work must not start until risk has been reduced
16 - 25	Intolerable	Work must not start until risk has been reduced. If risk cannot be reduced, project should not proceed.

The risks and their potential impacts may vary between the various stages of the project, such as the risk to and from buried services, where the impact can be much higher during a ground investigation than during a desk study.

Stage	Risk No	Hazard	Prior to RCM			Risk Control Measure (RCM)	After RCM		
			Probability (P)	Impact (I)	Risk (R = P x I)		Probability (P)	Impact (I)	Risk (R = P x I)
Completion of Geotechnical Desk Study	DS 01	Collapsible Deposits Hazard	4	3	12	Carry out Ground Investigation to characterise the chalk underlying the site.	4	3	12
	DS 02	Made Ground	4	4	16	Undertake intrusive investigation to determine extent of possible Made Ground associated with the airfield development	2	4	8
	DS 03	Ground Dissolution for Soluble Rocks	4	3	12	Undertake an intrusive site investigation to determine what ground conditions are present beneath the site. Consider the hazard in construction and building design	4	3	12
	DS 04	Historic Chalk Mining	4	5	20	Obtain further information relating to the potential for chalk mining in the surrounding area of the site and within the site boundary, A mine adit and a shaft are located in the eastern and western areas of the site.	4	5	20
	DS 05	Infilled Chalk Pits	4	4	16	Undertake intrusive Ground Investigation to delineate Made Ground extent.	3	4	12
	DS 06	Solution Features	4	5	20	Carry out Ground Investigation to characterise the chalk underlying the site and determine any solution features.	4	4	16
	DS 07	Existing underground and overhead services.	3	4	12	Ensure all utilities data are available. Avoid known services, call out service providers in critical areas, carry out CAT scans and hand excavated inspection pits at borehole locations	2	4	8
	DS 08	Uncharted services	3	4	12	Carry out CAT scans and hand excavated inspection pits to 1.20m at borehole locations	2	4	8
	DS 09	Site of ecological importance	3	3	9	Undertake an ecology survey to determine the presence of any protected species and put in place any mitigation measures to protect against any proposed works.	3	3	9
	DS 10	Unexploded Ordnance	4	5	20	Detailed UXO report required before Ground Investigation is to be undertaken following historic land use as an RAF airfield.	3	5	15
	DS 11	Effects of trees on foundation design	2	4	8	Undertake tree survey identifying type and height	2	4	8



Appendix E

BGS Borehole Logs



**British
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22 TR36NW/3! 274

RECORD OF WELL (SHAFT OR BOREHOLE)

At Bofo! of Ramsgate 1" N.S. 274/186
 1" O.S. 3
 Grid 8E 37N(?)
 Town or Village Minster County Kent St. 9
 Exact site _____
 _____ in parish of 2
 Level of ground surface above sea-level (O.D.) 166 ft. If well starts below ground surface, state how far _____ ft.
 Shaft 6 ft., ^{by diam.} diameter 4 ^{oval} Bore _____ ft. Diameter of bore: at top _____ ins.; at bottom _____ ins.
 Details of permanent lining tubes (Internal diameters preferred) None used.

Water struck at depths of (feet) _____

Rest-level of water ^{below} top of well _____ feet. Suction at _____ feet. Yield on _____ hours' test ^{above} _____ days _____
 _____ gallons per _____ (with pump of capacity _____ g.p.h.); depressing water level to _____ feet
 below top. Time of recovery _____ hrs. Amount normally pumped daily _____ g.p.h. for _____ hours.

Quality (attach copy of analysis if available) _____
 Sunk by L. Grand S. & Co. for Mr. _____ Date of well 31. 7. 35.
 Information from Le Grand

GEOLOGICAL CLASSIFICATION.	NATURE OF STRATA (and any additional remarks).	THICKNESS		DEPTH	
		Feet.	Inches.	Feet.	Inches.
	<u>Shaft Sinking 6' x 4" dia. Oval.</u>				
<u>Upper chalk</u> X	Earth and Chalk	4	-	4	-
	Chalk with occasional bands of flints	78	-	82	-
	Chalk and Flints	94	6	176	6
<u>See H. 1939</u> X	Drove 4'0" into old heading at this depth - eventually drove to 27'2". 6" band of flints at 86'6".				
	New Heading 6' x 4' then commenced and continued for a distance of 5280 direction - N.W.				
	Heading driven at a general level of 176 b.s.				
	So far as we were informed the increased supply as a result of the new shaft and heading was between 35 and 40,000 g.p.h. No actual pumping was done by us.				
	<u>Extension of scheme detailed under 274/18</u>				
	<u>Sited 13-2-40. This is a shaft made in connection with the driving of the adit of the main scheme.</u>				
	<u>See H. 1939</u>				
	<u>Jah.</u>				

GEOLOGICAL SURVEY AND MUSEUM, SOUTH KENSINGTON, LONDON, S.W.7.

Date received **DEC 1939** G.S.M. Office File No. Site marked on 1" map (use symbol)

(*11815) W.L.S. 0.820 10,000 8/30 A. & B.W. 100 454



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274/8 Thanet Water Board, Ramsgate

Whitehall Pumping Station, Whitehall Road.

TR 36/24
A-E

- (a) W.S.K. pp. 184-5. Surface +99. Shaft 110 x 9 x 7 (oval). P1835.
 - (b) W.S.K. pp. 184-5. Surface +99. Shaft 115 x 9. P1835.
 - (a) and (b) Hardness: P. 59, T. 204. Anal. Mar. 1873. Headings: 4,800, floor 106½ down. R.W.L. +8%. P.W.L. +2½. (winter); -4% (summer). 1887. Headings extended to (i) 3,960 x 6 x 4¼ N.N.E., floor 106½ down; (ii) 7,920 x 6 x 4¼ W.S.W., floor 106½ down. 1893-95.
 - (c) W.S.K. pp. 184-5. Surface +97%. Shaft 112 x 12. Connected to (a) and (b) by headings. 1896.
- Headings extended to 13,000 mainly W.S.W. from (ii). Before 1905. Hardness: P. 53, T. 179. Cl 129. Anal. Jan. 1905. Headings: (iii) 4,860 N.W. from previous extension at a point where well (d) was subsequently sunk in 1933, floor -2. 1923-24. P.W.L. +2. May; -1%. Aug. Yield 52,800 g.p.h. 1934. Hardness: P. 103, T. 215. Anal. Mar. 1935. Cl 88. Mar.; 110. July; 146. Oct. 1945. P.W.L. +1. Yield 62,500 g.p.h. Oct. 1948. P.W.L. +4. Yield 50,000 g.p.h. Oct. 1954. Hardness: P. 85, T. 245. Cl 140. Anal. Sept. R.W.L. +2. P.W.L. +1%. Yield 72,000 g.p.h. Oct. 1957. R.W.L. +7%. P.W.L. +6. Yield 70,000 g.p.h. Oct. 1960. Hardness: P. 60, T. 240. Cl 50. Anal. Mar. 1961.

Lord of the Manor Pumping Station.

- (d) (Standby). Surface +115%. Shaft 120 x 6 x 4 (oval) intercepting extension of heading (ii) in order to reduce the hydraulic gradient and risk of saline infiltration caused by pumping the entire system from Whitehall. 1933.
- Hardness: P. 44, T. 226. Anal. Apr. 1934. Pumped only in summer. Hardness: P. 75, T. 220. Cl 60. Anal. Aug. 1937.

(e) (Filled in). Construction shaft for heading extensions. Surface +166. Shaft x 6 x 4 (oval) intercepting W. end of heading (iii). Heading: 5,280 x 6 x 4 W., floor 168 down. Increased yield from shaft and heading 35,000 - 40,000 g.p.h. Grand, 1934-35.

(e) Uck	...	176%	176%
---------	-----	------	------

Earth & Chalk.
Upper Chalk. * Chalk with occasional bands of flints
Chalk & flints

4	4
78	82
94-6	176-6.

* 6" band of flints at 86'6"

a.	TR. 3740	6607
b.	" 0	" 7
c.	" 0	" 7
d.	" 3535	6511
e.	" 3248	6560



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TR 36 NW/3

274/8 Thanet Water Board, Ramsgate

Whitehall Pumping Station, Whitehall Road.

(a) W.S.K. pp. 184-5. Surface +99. Shaft 110 x 9 x 7 (oval). P1835.
 (b) W.S.K. pp. 184-5. Surface +99. Shaft 115 x 9. P1835.
 (a) and (b) Hardness: P. 59, T. 204. Anal. Mar. 1873. Headings: 4,800, floor 106% down. R.W.L. +8%. P.W.L. +2% (winter); -4% (summer). 1887. Headings extended to (i) 3,960 x 6 x 4 1/4 N.N.E., floor 106% down; (ii) 7,920 x 6 x 4 1/4 W.S.W., floor 106% down. 1893-95.
 (c) W.S.K. pp. 184-5. Surface +97%. Shaft 112 x 12. Connected to (a) and (b) by headings. 1896.
 Headings extended to 13,000 mainly W.S.W. from (ii). Before 1905. Hardness: P. 53, T. 179. Cl 129. Anal. Jan. 1905. Headings: (iii) 4,860 N.W. from previous extension at a point where well (d) was subsequently sunk in 1933, floor -2. 1923-24. P.W.L. +2. May; -1%. Aug. Yield 52,800 g.p.h. 1934. Hardness: P. 103, T. 216. Anal. Mar. 1935. Cl 88. Mar.; 110. July; 146. Oct. 1945. P.W.L. +1. Yield 62,500 g.p.h. Oct. 1948. P.W.L. +4. Yield 50,000 g.p.h. Oct. 1954. Hardness: P. 85, T. 245. Cl 140. Anal. Sept. R.W.L. +2. P.W.L. +1%. Yield 72,000 g.p.h. Oct. 1957. R.W.L. +7%. P.W.L. +6. Yield 70,000 g.p.h. Oct. 1960. Hardness: P. 60, T. 240. Cl 50. Anal. Mar. 1961.
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(e) UK	176%	176%
--------	-----	-----	------	------

Earth & Chalk.	4	4
Upper Chalk. * Chalk with occasional bands of frints	78	82
Chalk & frints	94-6	176-6.

* 6" band of frints at 86' 6"

a.	TR. 374	660
b.	"	"
c.	"	"
d.	3535	6511
e.	3248	6560



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British Geological Survey			British Geological Survey			British Geological Survey			British Geological Survey		
Date of sample											
3											
10 TR3624/5											
	Jan 12 th 1905	Feb 15 th 1905	Mar 20 th 1905	April 19 th 1905	May 17 th 1905	June 7 th 1905	July 21 st 1905	Aug 23 rd 1905	Sept 4 th 1905	Oct 12 th 1905	Nov 2 nd 1905
	P. 5 "H"	P. 5 "J"	P. 5 "J"	P. 5 "H"	P. 5 "L"	P. 5 "M"	P. 5 "N"	P. 5 "O"	P. 5 "P"	P. 5 "Q"	P. 5 "R"
Description or number of sample											
Appearance	very clear	very clear	clear	clear	clear	clear	clear	clear	clear	clear	clear
Colour	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue
Smell	none	none	none	none	none	none	none	none	none	none	none
Chlorine (N Chlorides)	12.95	12.74	12.81	12.88	12.88	13.37	13.79	14.98	15.82	16.66	15.54
Chlorine as salt	21.34	20.99	21.11	21.23	21.23	22.03	22.73	24.68	26.07	27.45	26.61
Phosphoric Acid in Phosphates	none	none	none	none	none	none	none	none	none	none	none
Nitrogen in Nitrates	0.78	0.71	0.73	0.75	0.75	0.75	0.71	0.62	0.78	0.54	0.58
Ammonia	none	none	none	0.0006	0.0004	0.0003	0.0004	none	trace only	none	none
Albuminoid Ammonia	0.0006	0.0008	0.0008	0.0016	0.0021	0.0011	0.0014	0.0011	0.0014	0.0011	0.0014
Oxygen absorbed in 15 minutes	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only
Oxygen absorbed in 4 hours	0.024	0.030	0.042	0.036	0.042	0.030	0.052	0.030	0.064	0.034	0.034
Hardness before boiling (total)	23.2	23.3	23.2	23.3	23.4	22.9	23.3	23.5	23.6	23.1	22.9
Hardness after boiling (permanent)	5.3	5.7	5.6	5.7	5.8	5.3	5.4	5.6	5.7	5.5	5.3
Total solid matter	50.33	50.75	49.84	50.26	51.11	49.55	50.51	56.35	57.19	56.91	53.69
Microscopical examination of deposit	slight ? unimportant	slight ? unimportant	slight ? unimportant	slight ? unimportant	slight ? unimportant	slight ? unimportant	slight ? unimportant	slight ? unimportant	slight ? unimportant	slight ? unimportant	slight ? unimportant

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RAMSGATE CORPORATION GAS & WATER DEPARTMENT
Gas & Water Offices. Boundary Road, Ramsgate Kent

2745

(B) UNDERGROUND WATER (WELLS AND BORINGS)

(In each case please state whether a well and/or boring is in question.)

TAKEN OVER BY THE THANET WATER BOARD
1st April 1956.

8 ABC

I. GENERAL

1. Exact site of well or boring

(A map or sketch showing position would be useful.)

- ABC 274 Whitehall Water Works, Ramsgate. 3 Wells.
- 274 Old Gas Works Yard, Minster. (S.W. Kent) 1 Borehole.
- 274 Lord of the Manor, Canterbury Road,
- 85 Ramsgate, Temporary Well & Pumping Station. 1 Well.

2. Surface level of ground above Ordnance Datum

Whitehall.	98.83 ft.
Borehole, Minster.	56.56 ft.
Temporary Well.	120.00 ft.

3. Date of construction

Whitehall Water Works was opened in	1898.
Borehole, Minster.	1921.
Temporary Pumping Station.	1933.

WELLS.

4. Depth of well from surface level of ground (i.e., 2 above). If top of well is below the surface level of the ground (i.e., 2 above) state how much 113 ft.

(Whitehall Engine Room floor is on same level as the ground.)

274/8
274/8

5. Depth of floor of galleries at site of well: also dimension and direction of galleries at Whitehall. 105 ft.

Dimensions of Adits vary - generally 6' x 4' 6" with 2' Grip.

BORINGS.

6. Depth of boring from surface level of ground (i.e., 2 above). If boring is in bottom of well, state depth of well 502ft. 9ins. ft

274/12

7. (a) Diameter of top of boring 12 in.

(b) Diameter of bottom of boring 12 in.

8. Tubed from top of boring to 100 ft.

9. Lining tubes perforated at depths of No perforations.

10. Water struck during boring at depths of (Tested at)

211'	=	3,000 g.p.h.
388'	=	7/10,000 g.p.h.
502'	=	10/12,000 g.p.h.

11. What was rest level on completion of boring?

Varies with level of water in chalk. Averages approximately 6' + O.D.

WELLS AND BORINGS.

12. Is the water raised by pump or air lift? Air.

13. Depth from top of well or boring to bottom of

air inlet.	1st. 345' 10"
	2nd. 450' 0"



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Description or number of sample.	Date of sample.											
	Jan 17 th 1906	Feb 17 th 1906	Apr 23 rd 1906	April 26 th 1906	May 16 th 1906	June 11 th 1906	July 17 th 1906	Aug 27 th 1906	Sept 17 th 1906	Oct 5 th 1906	Nov 20 th 1906	Dec 17 th 1906
Appearance	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear
Colour	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue
Smell	none	none	none	none	none	none	none	none	none	none	none	none
Chlorine as Chlorides	15.82	15.82	16.59	16.45	17.64	16.45	18.41	20.93	21.14	20.72	19.88	21.35
Chlorine as salt	26.07	26.07	27.34	27.11	29.87	27.11	30.33	34.49	34.84	34.14	33.76	35.18
Phosphoric Acid in Phosphates	none	none	none	none	none	none	none	none	none	none	none	none
Nitrogen in Nitrates	0.76	0.80	0.85	0.80	0.69	0.77	0.76	0.79	0.74	0.72	0.75	0.78
Ammonia	0.0006	0.0006	0.0005	0.0004	0.0003	0.0003	0.0004	0.0003	0.0003	0.0004	0.0003	0.0003
Albuminoid Ammonia	0.0008	0.0014	0.0019	0.0008	0.0011	0.0008	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014
Oxygen absorbed in 15 minutes	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only
Oxygen absorbed in 4 hours.	0.044	0.022	0.036	0.036	0.036	0.038	0.068	0.044	0.064	0.056	0.038	0.030
Hardness before boiling (total)	27.7	27.8	27.0	27.0	27.4	26.6	27.4	28.5	28.8	28.7	28.5	28.6
Hardness after boiling (Permanent)	10.1	10.2	9.4	9.1	9.8	9.0	9.8	10.9	10.9	10.8	10.6	10.7
Total solid matter	53.97	54.67	57.47	55.44	60.97	53.97	60.69	67.83	67.97	66.99	66.22	66.15
Microscopical examination of deposit.	slight & unimportant	slight & unimportant	slight & unimportant	slight & unimportant	slight & unimportant	slight & unimportant	slight & unimportant	slight & unimportant	slight & unimportant	slight & unimportant	slight & unimportant	slight & unimportant

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TR36NW3

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TR 36 NW3

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II. If systematic measurements of water levels are made, state whether these include:—

(a) Pumping levels at ~~Whitshall Works~~ Rest levels at Borehole, Minster.....

(c) Time of recovery to rest level on cessation of pumping:

Pumping Station cannot be shut down for more than a few hours. Information not available.

(d) Changes in pumping level, if rate of pumping is altered. Increase is approximately 100,000 galls. per 24 hours per 12" fall in water level.

Also state: (e) at what intervals records are taken (i.e., daily, weekly, etc.) Daily.

Please furnish a specimen graph of records taken over as long a period as available (up to 1 year).

Graphs enclosed.

III. If measurements are made only occasionally please indicate what is, or has been, done in this respect and furnish examples of any graphs or figures available.

IV. YIELDS.

(1) Number of gallons pumped per hour Varies.... Average per 24 hours for year ended March 31st. 1934. is 1,267,000 galls. Average per hour = 52,800 gallons.

(2) Is pumping continuous? Yes.....

(3) If not, how many hours pumping per day?

-0- quantity pumped 1934.

(4) Maximum daily ~~yield~~ 1,596,000 galls. at -1' 8" O.D.

Estimated

Based on actual tests

V. If a section or record of strata can be given please attach to this form.

All in chalk at Whitshall Water Works and Adits. Detail of Minster Borehole enclosed.

VI. (1) If a chemical analysis can be given please attach.

Analysis attached.

(2) If not state hardness

(3) For what purpose is the water used? All purposes.

See attached notes re Adit extensions - Temporary Pump at Lord of the Manor and Water Softening Plant - These available etc.



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Description or number of sample	Date of sample											
	January 22 nd 1903	Feb 15 th 1903	March 17 th 1903	April 28 th 1903	May 22 nd 1903	June 17 th 1903	July 11 th 1903	August 27 th 1903	Sept 13 th 1903	Oct 17 th 1903	Nov 20 th 1903	Dec 13 th 1903
	PS 'A'	PS 'B'	PS 'C'	PS 'M'	PS 'N'	PS 'O'	PS 'P'	PS 'Q'	PS 'R'	PS 'S'	PS 'T'	PS 'U'
Appearance	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Colour	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue
Smell	None	None	None	None	None	None	None	None	None	None	None	None
Chlorine in Chlorides	14.28	14.77	13.72	14.42	14.77	14.07	13.65	15.05	15.26	13.65	14.77	13.31
Chlorine as salt	23.53	24.34	22.61	23.76	24.34	23.19	22.49	24.80	25.15	22.49	24.34	21.93
Phosphoric Acid in Phosphates	None	None	None	None	None	None	None	None	None	None	None	None
Nitrogen in Nitrates	0.71	0.87	0.79	0.68	0.72	0.75	0.76	0.73	0.71	0.71	0.79	0.67
Ammonia	None	None	None	None	None	None	None	None	0.0014	0.0004	Trace only	Trace only
Albuminoid Ammonia	0.0014	0.0021	0.0019	0.0014	0.0019	0.0014	0.0017	0.0008	0.0014	0.0011	0.0017	0.0011
Oxygen absorbed in 15 minutes	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only
Oxygen absorbed in 4 hours	0.024	0.034	0.024	0.024	0.020	0.042	0.042	0.032	0.034	0.044	0.032	0.026
Hardness before boiling (total)	23.9	24.1	24.0	24.1	24.1	24.2	24.0	24.2	24.1	23.9	24.1	23.9
Hardness after boiling (Permanent)	6.4	6.5	6.4	6.5	6.5	6.3	6.1	6.3	6.2	6.0	6.3	6.1
Total Solid matter	30.62	32.57	31.24	32.71	31.87	32.92	30.47	32.99	32.57	31.89	33.27	32.22
Microscopical Examination of deposit	Slight	Slight faint	Slight unimportant	Slight unimportant	Slight unimportant	Slight unimportant	Slight unimportant	Slight unimportant	Slight unimportant	Slight unimportant	Slight unimportant	Slight unimportant



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ABC

Ramsgate. WATERWORKS. 1835 and later.

Ordn. Map 274, new ser.; Geol. Map 3.
Information from Mr. W. A. VALON and Mr. T. N. RITSON.
Pumping station about a sixth of a mile east of Whitehall, on the western side of the road to Margate.

About 100 feet above Ordnance Datum.
Depth of pumping well, in Chalk, 120 feet. Three wells connected by headings.

Level of headings mean water-mark. In February 1887 the length of these was 1,600 yards, from E. to W. Since then they have been increased, and they run from the well irregularly N.N.E. to the borough-boundary beyond Newlands Grange, and very irregularly S.W. to St. Lawrence station and thence irregularly W.S.W. to nearly a third of a mile beyond Hollins Bottom (or north of Cliffsend). In all the length comes to more than 2½ miles.

The following figures of water-levels were given in 1887:—

Before pumping, 16 feet above mean water-level. = +8½
Lowest water-level in winter 10 feet above mean level. = +2½
" " summer 8 " " = -4½

The northern end of the headings is between half and two-thirds of a mile from the Rumfield Pumping Station of Broadstairs.

Besides Ramsgate and St. Lawrence, Haine, Mauston and Minster are within the area of control. The supply for the year ending March 1906 was:—For domestic purposes, 364,886,163 gallons; for trade-purposes, 33,602,412; for municipal purposes, 36,774,165, or a total of 424,764,770. (Waterworks Directory, 1907.)

according to chart
supplied 1935
floor of headings
-7½ O.D. This
level taken as
representing
"mean water level"
quoted here,
therefore.

S.C.A.H. 1939.

16
-7½
6½

Published in
'Water Supply of
Kent,' p. 184-5



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718604 : BGS Reference: TR36NW3
British National Grid (27700) : 632480,165600

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Description or number of sample	Date of sample											
	Jan 20 th 1904	Feb 1904	Mar 17 th 1904	April 20 th 1904	May 10 th 1904	June 22 1904	July 14 th 1904	August 27 1904	Sept 22 1904	Oct 12 th 1904	Nov 17 th 1904	Dec 15 th 1904
Appearance	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear
Colour	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue
Smell	none	none	none	none	none	none	none	none	none	none	none	none
Chlorine as Chlorides	12.32	11.21	11.06	10.64	10.73	10.43	10.15	12.81	12.67	12.53	12.32	12.81
Chlorine as salt	20.30	18.47	18.23	17.52	16.84	17.19	16.73	21.11	20.88	20.65	20.30	21.10
Phosphoric Acid in Phosphates	none	none	none	none	none	none	none	none	none	none	none	none
Nitrogen in Nitrates	0.66	0.89	0.82	0.69	0.69	0.77	0.73	0.69	0.46	0.73	0.78	0.83
Ammonia	none	trace only	0.0004	0.0004	none	0.0003	none	0.0003	none	0.0004	0.0005	0.0002
Albuminoid Ammonia	0.0014	0.0017	0.0014	0.0014	0.0014	0.0016	0.0011	0.0011	0.0008	0.0008	0.0014	0.0011
Oxygen absorbed in 5 minutes	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only
Oxygen absorbed in 4 hours	0.034	0.028	0.030	0.042	0.030	0.042	0.052	0.034	0.0054	0.034	0.042	0.030
Hardness before boiling (total)	23.9	23.7	23.6	23.7	23.5	23.7	23.6	23.2	22.9	23.1	23.2	22.9
Hardness after boiling (permanent)	6.3	6.1	6.0	6.1	5.9	5.8	5.7	5.4	5.3	5.3	5.6	5.3
Total solid matter	42.16	40.41	45.36	46.21	44.52	43.61	44.66	49.21	48.16	47.81	51.24	48.5
Microscopical examination of deposit	slight and light green, unimportant	slight	slight and unimportant	slight and unimportant	slight and unimportant	very slight unimportant	slight and unimportant	slight and unimportant	slight and unimportant	very slight unimportant	slight unimportant	slight unimportant

274
TR36/24/3



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718604 : BGS Reference: TR36NW3
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TR 36 NW/3
 274
 8A
 8


Ramsgate. WATERWORKS. (See p. 184.) Water from the Chalk.

Well at Whitehall, 100 feet deep, March 1st, 1873.
Rivers Pollution Commission. Sixth Report, 1874, p. 100.
 Clear and palatable. Temperature 10° C.

Total solid impurity	40.9	} Parts per 100,000.
Organic carbon ... ..	.052
Organic nitrogen (no ammonia) ... ..	.013
Nitrogen as nitrates and nitrites ... ..	.806
Total combined nitrogen ... ..	.819
Chlorine	5.2	

Hardness, temporary 20.4, permanent 5.9; total 26.3.

Two analyses by G. W. WIENER, in *The Water Supply of Sea-side Watering-places, 1878, pp. 30, 31.* In grains per gallon.

1. Drawn from the drinking-fountain at the pier-gates, July 14th.
2. From the Surveyor, July 23rd (? 1877).

	1.	2.
Total solid matter	28.5	33.6
Loss on ignition after deducting combined carbonic acid	4.2	4.48
Iron, traces.		
Chlorine calculated as chloride of sodium	6.76	6.67
Nitrogen as ammonia ... ..	.0011	.004
" " albumenoid ammonia ... ..	.0035	.0037
" " nitrates ... ..	.419	.488
" " nitrites ... ..	.013	.006
Total nitrogen in these four forms ... ..	.438	.507
Oxygen absorbed by organic matter ... ..	.021	.011

Hardness, Clark's scale, before boiling 19° and 18.6°, after boiling 3.5° and 4.2°.

Both of excellent colour and free from objectionable taste or smell. No fault except hardness.

Five samples, by S. HARVEY. Communicated by Dr. F. PARSONS. In grains per gallon.

1. From the rising main near Whitehall Works, taken at noon, August 29th, 1890.
2. From the bottom of the well, Southwood, taken at 12.45 p.m. same day.
3. From heading in which workmen were at work) Received
4. From heading nearest the point where contamination might have been expected) 30th May, 1904.
5. Sample received 10th January, 1890.

In all, appearance clear, no smell. Colour, in 5, green-blue.

	1.	2.	3.	4.	5.
Chlorine in chlorides	10.36	7.63	3.71	3.71	11.63
Do. reckoned as salt	17.07	12.67	—	—	—
Nitrogen in nitrates ... ..	.85	.85	.35	.83	.69
Ammonia	trace	trace	.0035	trace	none
Albumenoid ammonia ... ..	.0006	.0019	.0025	.0022	.0011
Oxygen absorbed in 15 minutes	trace	trace	trace	trace	trace
Oxygen absorbed in 4 hours ... ..	.03	.07	.03	.03	.022
Total solid matter	45.5	40.04	30.24	30.24	43.68
Hardness, before boiling	22.75°	22.23°	20.4°	20.4°	23.2°
" " after (permanent)	3.85°	3.5°	2.2°	2.2°	5.2°

1, 2. It is satisfactory to find that the supply maintains its high character for organic purity and freedom from sewage-impregnation.

3, 4. Assuming the two samples to represent the public supply the results are very satisfactory and at no time before have such low figures for combined chlorine and nitrates been observed. The water in both is organically pure and there is no evidence of sewage-percolation. The figure for ammonia in No. 3 however requires explanation; such an amount is unusual.

5. The results are satisfactory both as to organic purity and absence of sewage-percolation.



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19

274/8 TR36/24

C
B
A

D
E

274/8 Ramsgate.

Whitehall Pumping Station.

The shafts at this Station are known now as:-

- No. 1 - 12 ft. diameter x 112 ft. deep.
- No. 2 - 9 ft. " x 115 ft. deep.
- No. 3 - 9 ft. x 7 ft. oval x 110 ft. deep.

The dates of construction given for (a), No. 3, and (b), No. 2, we presume correct, but (c), No. 1, is later - 1896. Floor level is 97.54 above O.D. The total length of headings in 1895 are given by Whittaker as "more than 2 1/2 miles". This is presumably the 12,320 ft. quoted in your draft. From our records this total length is approximately 13,000 ft. We have no accurate record of the dates of any heading extensions. Some work was done in 1893 - 1895 but the lengths are unknown. The normal pumping rate 70,000 g.p.h.

274/8 Lord of the Manor Pumping Station, Ramsgate.

This Station was commissioned in 1933 with the object of pumping more water from the middle of the long heading system from Whitehall and thereby reducing the underground hydraulic gradient caused by pumping the whole of the water from Whitehall in order to reduce the infiltration of sea water due to pumping below O.D.

The headings are common to both Whitehall and Lord of the Manor Stations as stated.

The headings were extended in 1923/24 from Lord of the Manor in a north-westerly direction for a distance of 4,860 ft. and again in 1934/35 turning west for a further distance of 5,280 ft. at a level of 2 ft. below O.D. The 1934/35 extension was made by Legrand. The floor level is 115.6 above O.D. The Station is being modernized and is likely to be in use more frequently than in the past.

"Information by letter from Thanet Water Board, 30.3.61".

SM



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TR 36 NW/3
274

8A

Microscopical examination of deposit.

1, 2, Slight chalk; 3, chalky; 4, slight and unimportant; 5, slight traces of iron-oxide and vegetable fibres.

Another analysis, from the well at Whitehall. March, 1899.

Made and communicated by Dr. J. C. TAYLOR.

The greater part published in his *Examination of Waters and Water Supplies*, 1904.

Saline constituents, in parts per 100,000.

Ca.	Mg.	Na.	CO ₂ .	SO ₂ .	Cl.	NO ₂ .	Probable combinations.
13.3	1.25	—	14.8	3.3	17.4	4.2	
9.9	—	—	14.8	—	—	—	Calcium carbonate... 24.7
1.4	—	—	—	3.3	—	—	Calcium sulphate ... 4.7
1.35	—	—	—	—	—	4.2	Calcium nitrate ... 5.55
.05	—	—	—	—	1.15	—	Calcium chloride ... 1.8
—	1.25	—	—	—	3.7	—	Magnesium chloride 4.95
—	—	8.15	—	—	12.55	—	Sodium chloride ... 20.7
—	—	—	—	—	—	—	Silica, etc ... 1.1

Total solid constituents dried at 180° C. 63.5

Organic ammonia (no free ammonia) .002

Oxygen absorbed in 4 hours at 27° C. .078

The following, made and communicated by Mr. C. EKIN, are presumably from the public supply. The figures are parts per million.

	Waterfall.	Granville Hotel.	Station.
Chlorine	206	198	208
Ammonia ... ..	.08	0	.08
Nitrogen as nitrates (no nitrites)	8.23	8.89	9.22

The following sets of analyses are condensed from tables contributed by Mr. T. N. RITSON, late Engineer of Ramsgate. They deal with the years 1903-6.

Analyses of samples taken each month in 1903 gave the following results:—

Appearance and colour, clear and green-blue; smell, none; throughout. Microscopic examination, slight or slight and unimportant throughout.

Chlorine in chlorides	varied from 13.31 in Dec. to 15.28 in Sept.
" as salt	" 21.93 in Dec. to 25.15 in Sept.
Nitrogen in nitrates	" .07 in Dec. to .07 in Feb.
Ammonia	" from none (generally) to .0014 in Sept.
" albuminoid	" from .0011 Oct. and Dec. to .0019 March and May.
Oxygen absorbed in 15 minutes	" trace only throughout.
" " 4 hours	" from .02 May to .04 Oct.
Hardness before boiling (total)... ..	" pretty constant 23.9-24.2.
" after " (permanent)	" " 6 to 6.5.
Total solid matter	" 50.47 July to 53.27 Nov.

A similar series taken in 1904 gave the following results:—

Appearance clear; colour, green-blue; smell, none; throughout. Microscopic examination of deposit, "slight (or very slight) and unimportant" in 11 months to "slight organic debris" in Feb.

Chlorine in chlorides	varied from 10.15 July to 12.81 Aug. and Dec.
" as salt	" 16.73 July to 21.1 Aug. and Dec.
Nitrogen in nitrates	" .46 Sept. next lowest .01 Jan.; highest .24 Feb.
Ammonia	" none very often to .0005 Nov.
" albuminoid	" .0008 Sept. and Oct. to .0017 Feb.
Oxygen absorbed in 15 minutes	" trace only throughout.
" " 4 hours	" .0054 Sept. (next lowest .028 Feb.) to .052 July.
Hardness total	" 22.9 Dec. and Sept., 23.9 Jan.
" permanent	" 5.3 Dec., Sept. and Oct. to 6.3 Jan.
Total solid matter	" 43.61 June to 51.21 Nov.

A similar series in 1905 gave the following results:—

Appearance clear (very clear Jan. and Feb.); colour green-blue; smell none; throughout. Microscopic examination of deposit, slight and unimportant throughout.



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274/18a

274/8
TR36/24
D+E

Lords of the Manor Temporary Pumping Station DE

See Record 274/8.

Visited. Pumphouse at ^{115.6} ~~115.0~~ OD. Standby supply pumped only in summer. Connected with the main Whitehall system of headrings of the Chamet Water Board. (F, B, C 274/8).

26-10-57

d & e
(a) are understood to be connected by a heading their distance apart is c. 4,190 yds. the floor of the heading is assumed to be 176 ft down (b).



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TR 36 Nr/3

274 / 8A

10

Chlorine in chlorides	varied from	12-74 Feb. to 10-66 Oct.
" as salt	" "	20-99 Feb. to 27-45 "
Nitrogen in nitrates	" "	'64 in Oct. to '78 Jan. and Sept.
Ammonia	" "	none generally to '0006 in April.
" albuminoid	" "	'0006 Jan. to '0021 May. trace only throughout.
Oxygen absorbed in 15 minutes	" "	'024 Jan. to '064 in Sept.
" " " 4 hours	" "	22-9 June to 23-6 Sept.
Hardness before boiling (total)...	" "	5-3 Jan., June and Nov. to 5-8 May.
" after " (permanent)	" "	40-35 June to 57-19 Sept.
Total solid matter... ..	" "	

Note.—Figures for the December sample not given.

A similar series in 1906 gave the following results :—
Appearance clear; colour, green-blue; smell none; throughout.
Microscopic examination of deposit, slight in June, slight and unimportant in others.

Chlorine in chlorides	varied from	15-82 Jan. and Feb. to 21-35 Dec.
" as salt	" "	26-07 Jan. and Feb. to 35-18 Dec.
Nitrogen in nitrates	" "	'69 in May to '85 in Mar.
Ammonia	" "	'0003 May, June, Aug., Sept., Nov., Dec. to '0006 Jan. and Feb.
" albuminoid	" "	'0008 Jan., April and June to '0019 March.
Oxygen absorbed in 15 minutes	" "	trace only or traces throughout.
" " " 4 hours	" "	'022 Feb. to '068 July.
Hardness before boiling (total)...	" "	26-6 June to 28-8 Sept.
" after " (permanent)	" "	'9 June to 10-9 Aug. and Sept.
Total solid matter... ..	" "	53-97 Jan. and June to 67-97 Sept.

A combination of the monthly analyses for the 4 years 1903-6.
Appearance clear (very clear Jan. and Feb. 1906); colour, green-blue; smell none; throughout.

Microscopic examination of deposit, slight (or very slight) and unimportant almost throughout (once "slight"). In Feb. 1904, there was "slight organic debris."

Chlorine in chlorides	varied from	10-15 July 1904 to 21-35 Dec. 1906.
" as salts	" "	16-78 July 1904 to 25-18 Dec. 1906.
Phosphoric acid as phosphates...	" "	None throughout.
Nitrogen in nitrates	" "	'46 Sept. 1904 to '67 in Feb. 1908.
Ammonia	" "	none generally in 1903, 4, 5 to '0014 Sept. 1905.
" albuminoid	" "	'0006 Jan. 1904 to '0012 May 1905.
Oxygen absorbed in 15 minutes	" "	trace only throughout (once "traces").
" " " 4 hours	" "	'0064 Sept. 1906; next lowest '02, May 1903, highest '068 July 1906.

* This figure is exceptional. Possibly should be '064.

Hardness before boiling (total)...	" "	22-9 Dec. and Sept. '04 and June '06 to 28-3 Sept. '06.
" after " (permanent)	" "	5-3 Dec., Sept. and Oct. '04 and Jan., June and Nov. '05 to 10-9 Aug. and Sept. '06.
Total solid matter	" "	42-61 June '04 to 67-97 Sept. '06.



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2022

274

RECORD OF WELL (SHAFT OR BORE)

Boro! of Ramsgate
At _____
Town or Village Minster County Kent St. _____
Exact site _____
_____ in parish of 2

1" N.S. 274/186
1" O.S. 3
Grid Ref. 8E
NN 37N(?)
Sketch-map facing from a map is very desirable


Level of ground surface above sea-level (O.D.) 166 ft. If well starts below ground surface, state how far _____ ft.
Shaft 6 ft. diam. 4 diam. Bore _____ ft. Diameter of bore: at top _____ ins.; at bottom _____ ins.
Details of permanent lining tubes (internal diameters preferred) None used. **TR36/24E**

Water struck at depths of (feet) _____
Rest-level of water below top of well _____ feet. Suction at _____ feet. Yield on _____ hours' test
_____ gallons per _____ (with pump of capacity _____ g.p.h.); depressing water level to _____ feet
below top. Time of recovery _____ hrs. Amount normally pumped daily _____ g.p.h. for _____ hours.

Quality (attach copy of analysis if available) _____
Sunk by Le Grand S. & Co. for Mr. _____ Date of well 31. 7. 35.

(For Survey use only). GEOLOGICAL CLASSIFICATION.	NATURE OF STRATA (and any additional remarks).	THICKNESS		DEPTH	
		Feet.	Inches.	Feet.	Inches.
	<u>Shaft Sinking 6' x 4' dia. Oval.</u>				
<u>Upper Chalk</u> X	<u>Earth and Chalk</u>	<u>4</u>	<u>-</u>	<u>4</u>	<u>-</u>
	<u>Chalk with occasional bands of flints</u>	<u>78</u>	<u>-</u>	<u>82</u>	<u>-</u>
	<u>Chalk and Flints</u>	<u>94</u>	<u>6</u>	<u>176</u>	<u>6</u>
<u>Sca.H. 1939</u>	<u>Drove 4'0" into old heading at this depth - eventually drove to 27'2".</u>				
X	<u>6" band of flints at 86'6".</u>				
	<u>New Heading 6' x 4' then commenced and continued for a distance of 5280 direction - N.W.</u>				
	<u>Heading driven at a general level of 176' b.s.</u>				
	<u>So far as we were informed the increased supply as a result of the new shaft and heading was between 35 and 40,000 g.p.h. No actual pumping was done by us.</u>				
	<u>Extension of scheme detailed under 274/18</u>				
	<u>Sited 13.2.40. This is a shaft made in connection with the driving of the adit of the main scheme.</u>				
	<u>Sca.H. 1939</u>				
	<u>JAR.</u>				

GEOLOGICAL SURVEY AND MUSEUM.
SOUTH KENSINGTON,
LONDON, S.W.7.

For Survey use only
Date received **DEC 1939**
G.S.M. Office File No.
Site marked on 1" map (use symbol) 

(*11815) Wt.29051/0.389 10,000 9/89
A. & E.W.Ltd. Gp.686



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TR 36 NW/3
RAMSGATE CORPORATION
Gas and Water Department

274

5-8

Re Analysis of Water - Hardness.

A Base-Exchange Water Softening Plant is at present being installed and will be brought into use about the end of April, 1935. The policy of the Corporation is in future to supply water of from 7 - 10 grains per gallon total hardness.

Quantity of Water Available.

It is very difficult to give a reliable figure of quantity available as the figure would vary with varying conditions. The figure given is the maximum quantity pumped during 24 hours in 1934 and the level of the water in the Adit stood at -1' 8" O.D. At the present time the Adits are being extended by one mile - 4,100 feet having been completed. Water is being obtained from these extensions to the amount of approximately 30,000 to 35,000 gallons per hour with continuous pumping. Whether this quantity will be available during Summer conditions remains to be proved.

Temporary Pumping Station.

By maintaining a steady pumping level at the Whitehall Works approximately $1\frac{1}{2}$ million gallons per 24 hours and taking up the peak load by pumping at the Lord of the Manor temporary Pumping Station a larger quantity of water can be obtained from the Adits with a lessened depression of the water level at Whitehall - the result being a lessened risk of infiltration of chlorides from the sea and it is confidently believed a considerably increased yield of water from the Adits. Ultimately it is expected that the Pumping Set at the Lord of the Manor will be installed at a new Water Works to be constructed approximately at the end of the present extension of the Adits.

Gas and Water Offices,
RAMSGATE.
March, 1935.



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TR 36 NW/3

2745
8COPI.South Eastern Analytical Laboratory,
Watling Chambers,
Canterbury.

WATER ANALYSIS - Folio

15th. March 1935.

The Borough of Ramsgate.

Sample Marked - as below.

Received - 13th March 1935.

N. B. ALL NUMERICAL RESULTS EXPRESSED IN PARTS PER 100,000.

Description or number of sample "Public Supply, Letter "L".

Appearance.	Clear.
Colour.	Green-Blue.
Smell.	Normal.
Chlorine in Chlorides.	12.40
Phosphoric Acid in Phosphates.	None.
Nitrogen in Nitrates.	1.03
Ammonia.	None.
Albuminoid Ammonia.	0.0040
Oxygen absorbed in 15 minutes	Trace only.
Oxygen absorbed in 4 hours.	0.023
Hardness before boiling (total)	31.9
Hardness after boiling (permanent)	10.3
Total Solid Matter.	62.00
Microscopical Examination of Deposit.	Slight and unimportant
Chlorine as "Salt"	20.44

Remarks:-

The above results are satisfactory and indicates water organically pure and free from sewage percolation. The Microscopical Examination is also satisfactory. The figures for "Chlorine", "Total solid matter" and "Hardness" are all lower than when this supply was last examined in September.

(Signed) Ernest M. Hawkins.

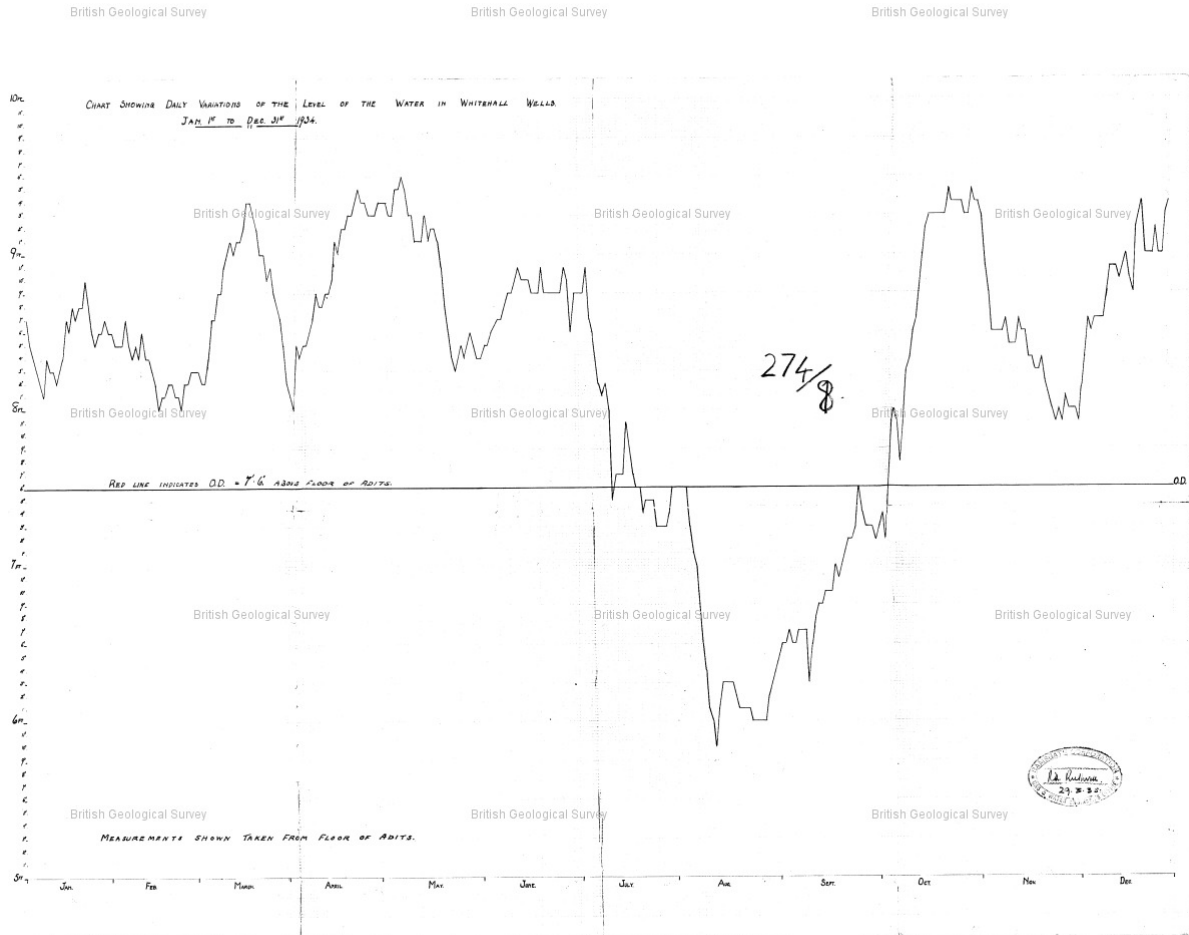
Public Analyst, Borough of Ramsgate.



British Geological Survey
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12

274/8 TR 36 NW/3

C
B
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D
E

274/8 Ramsgate.

Whitehall Pumping Station.

The shafts at this Station are known now as:-

No. 1 - 12 ft. diameter x 112 ft. deep.

No. 2 - 9 ft. " x 115 ft. deep.

No. 3 - 9 ft. x 7 ft. oval x 110 ft. deep.

The dates of construction given for (a), No. 3, and (b), No. 2, we presume correct, but (c), No. 1, is later - 1896. Floor level is 97.54 above O.D. The total length of headings in 1905 are given by Whittaker as "more than 2 1/2 miles". This is presumably the 12,320 ft. quoted in your draft. From our records this total length is approximately 13,000 ft. We have no accurate record of the dates of any heading extensions. Some work was done in 1893 - 1895 but the lengths are unknown. The normal pumping rate 70,000 g.p.h.

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"Information by letter from Thanet Water Board, 30.3.61".

SM



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15

COPY

274 TR 36 NW/3
8 C

THE COUNTIES PUBLIC HEALTH LABORATORIES
(THRESH, BEALS & SUCKLING)
66, VICTORIA STREET,
LONDON, S.W.1.

ROY C. HOATHER, B.Sc., Ph.D., F.R.I.C., F.R.S.H.
W. A. BULLOUGH, C.B.E., M.Sc., M.B.Ch.B., D.P.H.
GORDON MILLS, B.Sc., F.R.I.C., F.R.S.H.
R. F. RACKHAM, B.Sc., M.R.S.H.

Telephone: VICTORIA 3030
Telegrams: SPOBOGENE, Heathrow LONDON.

ANALYSIS OF A SAMPLE OF WATER received 2/9/57 Your ref.
Our ref. M.ME.13.

from THANET WATER BOARD

Labelled Newlands Adit Whitahall Pumping Station - Ramsgate.

Date 2/9/57 9.20 a.m.

Taken by: C. Saunders Witness J. McHenry Signed C. Saunders.

CHEMICAL RESULTS IN PARTS PER MILLION

Appearance Bright with very few particles

Turbidity Less than 3

Colour Nil Odour Nil

pH 7.2 Free Carbon Dioxide 34
Bottle

Electric Conductivity 860 Dissolved Solids dried at 180°C 585

Chlorine present as Chloride 126 Alkalinity as Calcium Carbonate 240

Hardness: Total 325 Carbonate 240 Non-carbonate 85

Nitrate Nitrogen 15 Nitrite Nitrogen Less than 0.01

Ammoniacal Nitrogen 0.000 Oxygen Absorbed 0.10

Albuminoid Nitrogen 0.000 Residual Chlorine Absent

Metals Iron less than 0.03, Zinc 0.80, other metals absent

* To convert to Ammonia multiply by 1.21

BACTERIOLOGICAL RESULTS.

Sampling bottles are treated to remove residual chlorine, if present.

Number of Colonies developing on Agar { 1 day at 37°C. 2 days at 37°C.
per ml. per ml.
Present in Absent from Present from

Presumptive Coli-aerogenes Reaction ml. ml.

Bact. coli. (Type I) ml. ml.

Cl. welchii Reaction ml. ml.



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NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718604 : BGS Reference: TR36NW3
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274/8
2/9/57 36 sw/s

THE COUNTIES PUBLIC HEALTH LABORATORIES

(THURISH, BEALE & SUCKLING)

66, VICTORIA STREET, LONDON, S.W.1.

Telephone: VICTORIA 8324/5
Telegrams: SPOCOGENE, Westphal LONDON.

British Geological Survey

British Geological Survey

ROY C. HOATHER, B.Sc., Ph.D., F.R.I.C., F.R.S.H.
W. A. BULLOUGH, C.B.E., M.Sc., M.B.Ch.B., D.R.M.
GORDON MILLS, B.Sc., F.R.I.C., F.R.S.H.
R. F. RACKHAM, B.Sc., M.R.S.M.

ANALYSIS OF A SAMPLE OF WATER received 2/9/57 Your ref.
from THANET WATER BOARD Our ref. M.ME. 14

Labelled Western Adit. - Whitehall Pumping Station - Ramsgate

Date 2/9/57 9.15am

Taken by C.A. Saunders witness J. McHenry signed C.A. Saunders

CHEMICAL RESULTS IN PARTS PER MILLION

Appearance Bright with a very slight deposit.

Turbidity Less than 3

Colour Nil Odour Nil

pH 7.2 Free Carbon Dioxide 34
Bottle

Electric Conductivity 900 Dissolved Solids dried at 180°C 625

Chlorine present as Chloride 140 Alkalinity as Calcium Carbonate 245

Hardness: Total 330 Carbonate 245 Non-carbonate 85

Nitrate Nitrogen 15 Nitrite Nitrogen Less than 0.01

Ammoniacal Nitrogen 0.000 Oxygen Absorbed 0.10

Albuminoid Nitrogen 0.000 Residual Chlorine Absent

Metals Zinc 1.2 other metals absent

BACTERIOLOGICAL RESULTS

Sampling bottles are treated to remove residual chlorine if present

Number of Colonies developing on Agar { 1 day at 37°C. 2 days at 37°C. 3 days at 37°C.
per ml. per ml. per ml.
Present in Absent from Present in

Presumptive Coli-aerogenes Reaction ml. ml. per 100 ml.

Doct. coli. (Type I) ml. ml. per 100 ml.

Cl. welchii Reaction ml. ml.



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274 TR36 NW/3
8 C.C.
ABC

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(THRESH, BEALE & SUCKLING)

ROY C. HOATHER, B.Sc., Ph.D., F.R.I.C., F.R.S.H.
W. A. BULLOUGH, C.B.E., M.Sc., M.B.C.S.B., D.P.H.
GORDON MILES, B.Sc., F.R.I.C., F.R.S.H.
R. F. RACKHAM, B.Sc., M.A.S.H.
E. ENGLISH, B. Pharm., B.Sc., F.R.I.C.

THRESH HOUSE,
VERULAM STREET,
GRAY'S INN ROAD,
LONDON, W.C.1.

Telephone: CHANCERY BUILDINGS, LONDON, W.C.2.
Telegrams: SPOROC

British Geological Survey

British Geological Survey

Your ref. British Geological Survey

ANALYSIS OF A SAMPLE OF WATER received 7.3.61 Our ref. 2/MT/04

from THAMES WATER BOARD.

Labelled Western Adit, Whitehall Pumping Station, Rensgate.

Date 6.3.61 9.5am

British Geological Survey

British Geological Survey

British Geological Survey

Taken by C. Saunders Witness H. Vaughan Signed C. Saunders

CHEMICAL RESULTS IN PARTS PER MILLION.

Appearance Bright with very few particles.

Turbidity	Less than 2
Colour	N11
Odour	N11
pH	7.1
Free Carbon Dioxide	28
Electric Conductivity	630
Dissolved Solids dried at 180°C	440
Chlorine present as Chloride	54
Alkalinity as Calcium Carbonate	220
Hardness: Total	300
Carbonate	220
Non-carbonate	70
Nitrate Nitrogen	11
Nitrite Nitrogen	Less than 0.01
Ammoniacal Nitrogen†	0.000
Oxygen Absorbed	0.15
Albuminoid Nitrogen†	0.000
Residual Chlorine	Absent
Metals	Iron, Zinc, Copper & Lead: Absent

† To convert to Ammonia multiply by 1.21

BACTERIOLOGICAL RESULTS.

Sampling bottles are treated to remove residual chlorine if present.

Number of colonies developing on Agar	1 day at 37°C.	2 days at 37°C.	3 days at 20-22°C.
	... per ml. Present in	... per ml. Absent from	... per ml. Probable number.
Presumptive Coliform reaction	... ml.	... ml.	... per 100 ml.
Bact. coli. (Type I)	... ml.	... ml.	... per 100 ml.
Cl. welchii reaction	... ml.	... ml.	

This sample is practically clean and bright in appearance neutral in reaction and free from iron and other metals. The water is hard in character but not to an excessive degree, contains no excess of mineral constituents and it is of very satisfactory organic quality.

From the aspect of the chemical analysis these results are indicative of a pure and wholesome water suitable for public supply purposes.

British Geological Survey

British Geological Survey

British Geological Survey

10th March, 1961

Cordon Miles



**British
Geological Survey**

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8 MAR 1961

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(THRESH, BEALE & SUCKLING)

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W. A. BULLOUGH, C.B.E., M.Sc., M.B.Ch.B., D.P.H.
GORDON HILES, B.Sc., F.R.I.C., F.R.S.H.
R. F. RACKHAM, B.Sc., M.R.S.H.
E. ENGLISH, B. Pharm., B.Sc., F.R.I.C.

THRESH HOUSE,
VERULAM STREET,
GRAY'S INN ROAD,
LONDON, W.C.1.

Telephone: CHAAM 1301
Telegrams: SPROG 15, P. 10

ABC *mc*

British Geological Survey

British Geological Survey

Your ref. British Geological Survey

ANALYSIS OF A SAMPLE OF WATER received 7. 3. 61 Our ref. Q/TT/95

from THAMES WATER BOARD.

Labelled Newlands Adit, Whitehall Pumping Station, Ransgate.

British Geological Survey

British Geological Survey

Date 6.3.61 9.10

Taken by I. Saunders Witness H. Vaughan Signed I. Saunders

CHEMICAL RESULTS IN PARTS PER MILLION.

Appearance Bright with very few particles.

Colour	N+1	Turbidity	Less than 2
pH	7.2	Odour	N+1
Electric Conductivity	620	Free Carbon Dioxide	30
Chlorine present as Chloride	50	Dissolved Solids dried at 180°C.	430
Hardness: Total	300	Alkalinity as Calcium Carbonate	240
	Carbonate		Non-carbonate
	240		60
Nitrate Nitrogen	11	Nitrite Nitrogen	Less than 0.01
Ammoniacal Nitrogen†	0.000	Oxygen Absorbed	0.05
Albuminoid Nitrogen†	0.000	Residual Chlorine	Absent
Metals	Iron, Zinc, Copper & Lead: Absent		

† To convert to Ammonia multiply by 1.21

BACTERIOLOGICAL RESULTS.

Sampling bottles are treated to remove residual chlorine if present.

Number of colonies developing on Agar	1 day at 37°C.	2 days at 37°C.	3 days at 20-22°C.
	Present in	Absent from	Probable number.
Presumptive Coliform reaction	... ml.	... ml.	... per 100 ml.
Bact. coli. (Type I)	... ml.	... ml.	... per 100 ml.
Cl. welchii reaction	... ml.	... ml.	

This sample is practically clear and bright in appearance neutral in reaction and free from iron and other metals. The water is hard in character but not to an excessive degree, contains no excess of mineral constituents and it is of very satisfactory organic quality.

From the aspect of the chemical analysis these results are indicative of a pure and wholesome water suitable for public supply purposes.

10th March, 1961

Corden Hiles

C1



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TR 36 NW/3

RAILWAY EXECUTIVE.
SOUTHERN REGION - ASHFORD WORKS.

CHEMICAL LABORATORY. CHIEF MECHANICAL ENGINEER'S DEPARTMENT.

ANALYSIS OF SAMPLE OF WATER.

From RAMSGATE.
Source LORD OF MANOR SUPPLY.
Laboratory Ref: B.80/114.
Date of Sampling 19th April, 1934.

274
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8
D

CONDITION AT TIME OF ANALYSIS.

Appearance
pH Value
Electrical Conductivity
Suspended matter
Colour

RESULTS OF ANALYSIS.

CONVENTIONAL COMBINATIONS

Grains per gallon.	
Lime (as CaO)..... 9.98	Calcium Carbonate. 15.85 grms.
Magnesia (as MgO)..... 0.46	Magnesium Carbonate. 7.00
Iron (as Fe ₂ O ₃)..... TRAP	Sodium Carbonate..... 7.00
Silica (as SiO ₂)..... 0.45	Calcium Sulphate... 1.00 "
Chlorides (as Cl)..... 3.45	Magnesium Sulphate... 7.00
Sulphates (as SO ₃)..... 0.60	Sodium Sulphate..... 7.00
Nitrates (as N ₂ O ₅)..... 2.22	Calcium Nitrate... 1.90 "
Free Carbon Dioxide (as CO ₂)..... 7.00	Magnesium Nitrate... 1.35 "
Total solids at 130°C..... 28.0	Sodium Nitrate..... 7.00
Total Alkalinity (to Methyl Orange)..... 15.85	Calcium Chloride..... 7.00
<u>Other Constituents.</u>	Magnesium Chloride. 0.20 "
.....	Sodium Chloride..... 5.45 "
.....	Oxide of Iron & Alumin., Trace.
.....	Silica..... 0.45 "
Temporary Hardness..... 15.85 degrees	
Permanent Hardness 3.05 "	
Total Hardness 18.90 "	
Scale Forming Matter 18.00 grains.	

REMARKS:



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

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THE COUNTIES PUBLIC HEALTH LABORATORIES

(THRESH, SEALE & BUCKLING)
66, VICTORIA STREET,
LONDON, S.W.1.

ROY C. HOATH, B.Sc., Ph.D., F.R.I.C., F.R.S.H.
W. A. BULLOUGH, C.B.E., M.B.E., M.B.Ch.B., D.P.H.
GORDON MILLS, B.Sc., F.R.I.C., F.R.S.H.
R. F. RACKHAM, B.Sc., M.R.S.H.

Telephone: VICTORIA 563
Telegrams: SPOBOGENE W

Your ref.

ANALYSIS OF A SAMPLE OF WATER received 7.8.57 Our ref. M/YN/16

from THANET WATER BOARD

Labelled Bib Cock - Engine Room, Ramsgate, Lord of the Manor Pumping Station Date 6.8.57 10.10am

Taken by D.T. Gora Witness H. Vaughan signed D.T. Gora

CHEMICAL RESULTS IN PARTS PER MILLION

Appearance Bright with very few particles

Colour	Nil	Turbidity	Less than 3
pH	7.3	Odour	Very faint chlorinous
Electric Conductivity	640	Free Carbon Dioxide	1.9
Chlorine present as Chloride	60	Dissolved Solids dried at 180°C	430
Hardness: Total	295	Alkalinity as Calcium Carbonate	220
		Carbonate	220
		Non-carbonate	75
Nitrate Nitrogen	13	Nitrite Nitrogen	Less than 0.01
Ammoniacal Nitrogen	0.000	Oxygen Absorbed	0.19
Albuminoid Nitrogen	0.000	Residual Chlorine	0.15
Metals	Absent		

To convert to Ammonia multiply by 1.21

BACTERIOLOGICAL RESULTS.

Sampling bottles are treated to remove residual chlorine if present.

Number of Colonies developing on Agar	1 day at 37°C	2 days at 37°C	3 days at 60°C
	per ml.	per ml.	per ml.
	Present in	Absent from	Probable number
Presumptive Coli-aerogenes Reaction	ml.	ml.	
Bact. coli. (Type I)	ml.	ml.	per 100 ml.
Cl. welchii Reaction	ml.	ml.	

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274/8 TR36 NW3

Lords of the Manor Temporary Pumping Station DE

See Record 274/8.

Water Pumping at 115.6 ft. Standby supply pumped only in summer. Connected with the main Whitehall system of headings of the Chart Water Board. (F, B, C 274/8).

26-10-57

It is understood to be connected by a heading the distance approx is c. 4,190 yds. the floor of the heading is assumed to be 176 ft down (b).



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NATURAL ENVIRONMENT RESEARCH COUNCIL

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Description or number of sample	Date of sample												
	Jan 22 nd 1903	Feb 15 th 1903	April 17 th 1903	April 22 nd 1903	May 22 nd 1903	June 15 th 1903	July 11 th 1903	August 27 th 1903	Sept 15 th 1903	Oct 17 th 1903	Nov 20 th 1903	Dec 19 th 1903	
Appearance	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
Colour	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	Green-blue	
Smell	None	None	None	None	None	None	None	None	None	None	None	None	
Chlorine in Chlorides	14.28	14.77	13.72	14.42	16.77	14.07	13.65	15.05	15.26	13.65	14.77	13.51	
Chlorine as salt	23.53	24.34	22.61	23.76	24.34	23.19	23.49	24.80	25.15	22.49	24.34	21.93	
Phosphoric Acid in Phosphates	None	None	None	None	None	None	None	None	None	None	None	None	
Nitrogen in Nitrates	0.71	0.87	0.79	0.68	0.72	0.75	0.76	0.73	0.71	0.71	0.79	0.67	
Ammonia	None	None	None	None	None	None	None	None	0.0014	0.0014	Trace only	Trace only	
Albuminoid Ammonia	0.0014	0.0021	0.0019	0.0014	0.0019	0.0014	0.0017	0.0008	0.0014	0.0011	0.0017	0.0011	
Oxygen absorbed in 15 minutes	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	Trace only	
Oxygen absorbed in 4 hours	0.024	0.034	0.024	0.024	0.030	0.042	0.042	0.032	0.034	0.044	0.032	0.026	
Hardness before boiling (total)	23.9	24.1	24.0	24.1	24.1	24.2	24.0	24.2	24.1	23.9	24.1	23.9	
Hardness after boiling (Permanent)	6.4	6.5	6.4	6.5	6.5	6.3	6.1	6.3	6.2	6.0	6.3	6.1	
Total Solid matter	30.68	32.57	31.24	32.71	31.87	32.92	30.47	32.99	32.37	31.59	33.27	32.22	
Microscopical Examination of deposit	Slight	Slight from surface	Slight 2	Slight 2	Slight 2	Slight 2	Slight 2	Slight 2	Slight 2	Slight 2	Slight 2	Slight 2	

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Description of number of sample	Date of sample													
	Jan 20 th 1902	Feb 1902	Mar 17 th 1902	Apr 20 th 1902	May 10 th 19	June 22 1902	July 10 th 1902	August 17 1902	Oct 22 1902	Dec 22 1902	Jan 17 th 1903	Feb 1903	Mar 1903	Apr 1903
Appearance	PS 7 th clear	PS 11 th clear	PS 20 th clear	PS 27 th clear	PS 27 th clear	PS 27 th clear	PS 27 th clear	PS 27 th clear	PS 27 th clear	PS 27 th clear	PS 27 th clear	PS 27 th clear	PS 27 th clear	PS 27 th clear
Colour	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue
Smell	none	none	none	none	none	none	none	none	none	none	none	none	none	none
Chlorine %n.Chlorides	12.52	11.21	11.06	10.64	10.22	10.43	10.15	12.81	12.67	12.53	12.32	12.81	12.81	
Chlorine as salt	20.30	18.47	18.23	17.62	16.84	17.19	16.73	21.11	20.88	20.65	20.30	21.10	21.10	
Phosphoric Acid in Phosphates	none	none	none	none	none	none	none	none	none	none	none	none	none	
Nitrogen in Nitrates	0.66	0.89	0.82	0.69	0.69	0.77	0.73	0.69	0.26	0.73	0.78	0.83	0.83	
Ammonia	none	trace only	0.0004	0.0004	none	0.0003	none	0.0003	none	0.0004	0.0003	0.0004	0.0004	
Albuminoid Ammonia	0.0014	0.0017	0.0014	0.0014	0.0014	0.0016	0.0011	0.0011	0.0008	0.0008	0.0014	0.0011	0.0011	
Oxygen absorbed in 15 minutes	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	
Oxygen absorbed in 4 hours	0.036	0.028	0.030	0.022	0.030	0.042	0.032	0.034	0.0054	0.034	0.042	0.036	0.036	
Hardness before boiling (total)	23.9	23.7	23.6	23.7	23.5	23.7	23.6	23.2	22.9	23.1	23.2	22.9	22.9	
Hardness after boiling (permanent)	6.3	6.1	6.0	6.1	5.9	5.8	5.7	5.4	5.3	5.3	5.6	5.3	5.3	
Total solid matter	43.16	46.41	45.36	46.21	44.52	43.61	44.66	49.21	48.16	47.81	51.24	48.51	48.51	
Microscopical examination of deposit	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant	slight sand abundant



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	Jan 12 1905	Feb 15 1905	Mar 20 1905	April 19 1905	May 17 1905	June 7 1905	July 27 1905	Aug 23 1905	Sept 9 1905	Oct 12 1905	Nov 25 1905
	P.S. H.	P.S. J.	P.S. J.	P.S. K.	P.S. L.	P.S. M.	P.S. N.	P.S. O.	P.S. P.	P.S. Q.	P.S. R.
Description or number of sample											
Appearance	very clear	very clear	clear	clear	clear	clear	clear	clear	clear	clear	clear
Colour	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue	green-blue
Smell	none	none	none	none	none	none	none	none	none	none	none
Chlorine (%, Chlorides)	12.95	12.74	12.81	12.88	12.88	13.37	13.79	14.98	15.82	16.66	15.54
Chlorine as salt	21.34	20.99	21.11	21.23	21.23	22.03	22.73	24.68	26.07	27.45	25.61
Phosphoric Acid in Phosphates	none	none	none	none	none	none	none	none	none	none	none
Nitrogen in Nitrates	0.78	0.71	0.73	0.75	0.75	0.75	0.71	0.62	0.78	0.54	0.58
Ammonia	none	none	none	0.0006	0.0004	0.0003	0.0004	none	trace only	none	none
Albuminoid Ammonia	0.0006	0.0008	0.0008	0.0016	0.0021	0.0021	0.0014	0.0011	0.0012	0.0011	0.0014
Oxygen absorbed in 15 minutes	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only
Oxygen absorbed in 4 hours	0.024	0.030	0.042	0.036	0.042	0.030	0.032	0.030	0.064	0.034	0.034
Hardness before boiling (total)	23.2	23.3	23.2	23.3	23.4	22.9	23.3	23.5	23.6	23.1	22.9
Hardness after boiling (permanent)	5.3	5.7	5.6	5.7	5.8	5.3	5.4	5.6	5.7	5.5	5.3
Total solid matter	50.33	50.75	49.84	50.26	51.11	49.30	50.51	56.35	57.19	56.91	55.69
Microscopical examination of deposit	slight 2 unimportant	slight 2 unimportant	slight 2 unimportant	slight 2 unimportant	slight 2 unimportant	slight 2 unimportant	slight 2 unimportant	slight 2 unimportant	slight 2 unimportant	slight 2 unimportant	slight 2 unimportant



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British Geological Survey	Date of sample											
	Jan 17 1906	Feb 17 1906	Apr 23 1906	April 27 1906	Apr 28 1906	Apr 28 1906	July 17 1906	Aug 23 1906	Sept 17 1906	Oct 9 1906	Nov 20 1906	Dec 17 1906
Description or number of sample.	RS 3	RS 4	RS 5	RS 6	RS 25	RS 7	RS 2	RS 10	RS 20	RS 15	RS 20	RS 8
Appearance	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear	clear
Colour	green-ble	green-ble	green-ble	green-ble	green-ble	green-ble	green-ble	green-ble	green-ble	green-ble	green-ble	green-ble
Smell	none	none	none	none	none	none	none	none	none	none	none	none
Chlorine & Chlorides	15.82	15.82	16.39	16.45	17.64	16.45	18.41	20.93	21.14	20.72	19.88	21.85
Chlorine as salt	26.07	26.07	27.34	27.11	29.07	27.11	30.33	34.49	34.54	34.14	32.76	35.18
Phosphoric Acid in Phosphates	none	none	none	none	none	none	none	none	none	none	none	none
Phosphoric Acid in Phosphates	0.76	0.80	0.85	0.80	0.69	0.77	0.76	0.79	0.72	0.72	0.75	0.78
Nitrogen in Nitrates	0.0006	0.0006	0.0005	0.0004	0.0003	0.0002	0.0004	0.0003	0.0003	0.0004	0.0003	0.0003
Ammonia	0.0008	0.0014	0.0019	0.0008	0.0011	0.0008	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014
Albuminoid Ammonia	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only	trace only
Oxygen absorbed in 15 minutes	0.0346	0.032	0.036	0.036	0.036	0.038	0.038	0.044	0.060	0.056	0.038	0.030
Oxygen absorbed in 4 hours.	27.7	27.8	27.0	27.0	27.4	26.6	27.4	28.5	28.8	28.7	28.5	28.6
Hardness before boiling (total)	10.1	10.2	9.4	9.1	9.8	9.0	9.8	10.9	10.9	10.8	10.6	10.7
Hardness after boiling (Permanent)	53.97	54.67	57.47	53.44	60.97	53.97	60.69	67.83	67.97	66.99	66.22	66.15
Total solid matter	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended
Microscopical examination of deposit.	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended	slight & suspended



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718624 : BGS Reference: TR36NW23
British National Grid (27700) : 634510,167210

Report an issue with this borehole

RECORD OF WELL

For Institute use only Licence No.
TR 36NW/224815090...

274 / 58 A

At SERVICE RESERVOIR, FLEETE
MANSTON
Town or Village of MANSTON
County of KENT

EXACT SITE OF WELL

30"/24" N.D. Washout Borehole
Six-inch National Grid sheet and reference TR 36NW 224815090
For Southern Water Authority, East Kent Water and Drainage Division
State whether owner, tenant, builder, contractor, consultant, etc.: Owner
Address (if different from above) Westwood Road, Broadstairs, Kent

NECESSARY AS

Level of ground surface above sea level (O.D.) 50.10 m
If well top is not at ground level state how far above/below
SHAFT diameter 30 in at top, 24 in at bottom
HEADINGS (please attach details—dimensions and directions)
BORE 197 ft (60 m); diameter: at top 30 in (762 mm); at bottom 24 in (610 mm)

TEST CONDITIONS

Full details of permanent lining tubes (position, length, inner and outer diameters, plain slotted etc.):
50m x 30" O.D. x W.T. plain mild steel lining tube installed to 50m B.G.L. the top being left at G.L.
Water struck at depths of Not recorded
Rest level of water 44.35 m above well top. Suction at 44.35 m
Yield on 4 hours test pumping at 44.35 m 44.35 galls per hour (1/s) with depression to 44.35 m below well top. Recovery to rest level in 44.35 mins
Capacity of pump 44.35 g.p.h. (1/s)
Date of measurements 24th June, 1981 Not Pumped

NORMAL CONDITIONS

DESCRIPTION OF PERMANENT PUMPING EQUIPMENT:
Make and/or type
Motive power
Capacity galls per hour. Suction at ft below well top. Amount pumped galls per day. Estimated consumption galls per week
Well made by F. SHOOTERSON (GRASSY) LTD Date of sinking June, 1981

LOG OF STRATA OVERLEAF

ADDITIONAL NOTES ANALYSIS (please attach copy if available)

Received from
Date
Observation well
Recorder
ER log
Site marked on
1" map
6" map—Grid Sheet
Copy to
Date

INSTITUTE OF GEOLOGICAL SCIENCES
HYDROGEOLOGY UNIT
EXHIBITION ROAD
LONDON SW7 2DE



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718624 : BGS Reference: TR36NW23

British National Grid (27700) : 634510,167210

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Page 2 of 6



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RECORD OF WELL

For Institute use only Licence No.

TR 36/668 N 15090

274/58 B

At Service Reservoir Fleete
MANSTON

Town or Village..... Nr. Ramsgate.

County Kent.

EXACT SITE
OF WELL

Six-inch County Sheet

274/58 B

8" N.D. Washout Borehole

Six-inch National Grid sheet and reference TR 36 N.W.

3451 672

For Southern Water Authority, East Kent Water and Drainage Division

State whether owner, tenant, builder, contractor, consultant, etc.:— Owner

Address (if different from above) Westwood Road, Broadstairs, Kent.

*DELETE
AS
NECESSARY

Level of ground surface above sea level (O.D.) Not Known ft (..... m)

If well top is not at ground level, state how far above* ft (..... m)

SHAFT.....ft (..... m); diameter.....ft (..... m);

HEADINGS (please attach details—dimensions and directions)

BORE.....ft (..... m); diameter: at top.....in (..... cm); at

bottom.....in (..... cm)

Full details of permanent lining tubes (position, length, diameter, plain, slotted, etc.)

40m x 8 5/8" O.D. x 5/16" W.T. plain mild steel lining tube

installed to 40m B.G.L. the top being left at G.L.

TEST
CONDITIONS

Water struck at depths of Not recorded ft (..... m) below well top

Rest level of water.....ft (..... m) above* well top. Suction at.....ft (..... m)

Yield on..... hours* test pumping at.....galls (..... m³) per..... with

depression to.....ft (..... m) below well top. Recovery to rest level in..... mins*

Capacity of pump.....g.p.h. (..... m³/h)

Date of measurements..... 6th July, 1981 Not Pumped

DESCRIPTION OF PERMANENT PUMPING EQUIPMENT:

Make and/or type..... Motive power.....

NORMAL
CONDITIONS

Capacity.....galls (..... m³) per hour. Suction at.....ft (..... m)

below well top. Amount pumped.....galls (..... m³) per day. Estimated

consumption.....galls (..... m³) per week

Well made by F. Smith & Son (Grimsby) Ltd. Date of sinking June/July, 1981

ADDITIONAL NOTES ANALYSIS (please attach copy if available)

LOG OF
STRATA
OVERLEAF

INSTITUTE OF GEOLOGICAL SCIENCES,
WATER DEPARTMENT,
SOUTH KENSINGTON,
LONDON, S.W.7.

Received from
Date
Observation well
Recorder.....
E.R. log
Site marked on Survey
1" map
6" map
(use symbol)
Copy to
Date



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718624 : BGS Reference: TR36NW23
British National Grid (27700) : 634510,167210

Report an issue with this borehole

RECORD OF WELL
At Service Reservoir Fleete
MANSTON
Town or Village.....Nr. Ramsgate.....
County Kent.
Six-inch County Sheet 274/58 B
8" N.D. Washout Borehole
Six-inch National Grid sheet and reference TR 36 N.W. 3451 6721 TR 36 NW 23
For Southern Water Authority, East Kent Water and Drainage Division
State whether owner, tenant, builder, contractor, consultant, etc.:— Owner
Address (if different from above) Westwood Road, Broadstairs, Kent.
Level of ground surface above sea level (O.D.) Not Known ft (..... m)
If well top is not at ground level, state how far above* below: ft (..... m)
SHAFT.....ft (.....m); diameter.....ft (.....m);
HEADINGS (please attach details—dimensions and directions)
BORE.....ft (.....m); diameter: at top.....in (.....cm); at bottom.....in (.....cm)
Full details of permanent lining tubes (position, length, diameter, plain, slotted, etc.)
40m x 8 3/4" O.D. x 5/16" W.T. plain mild steel lining tube
installed to 40m B.G.L. the top being left at G.L.
Water struck at depths of Not recorded.....ft (.....m) below well top
Rest level of water.....ft (.....m) above* below well top. Suction at.....ft (.....m)
Yield on..... hours* test pumping at.....galls (.....m³) per..... with
depression to.....ft (.....m) below well top. Recovery to rest level in..... mins*
Capacity of pump.....g.p.h. (.....m³/h)
Date of measurements 6th July, 1981 Not Pumped
DESCRIPTION OF PERMANENT PUMPING EQUIPMENT:
Make and/or type..... Motive power.....
Capacity.....galls (.....m³) per hour. Suction at.....ft (.....m)
below well top. Amount pumped.....galls (.....m³) per day. Estimated
consumption.....galls (.....m³) per week
Well made by F. Smith & Son (Grimsby) Ltd. Date of sinking June/July, 1981
ADDITIONAL NOTES ANALYSIS (please attach copy if available)
Received from
Date
Observation well
Recorder
E.R. log
Site marked on
1" map
6" map
(use symbol)
Copy to
Date



**British
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NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718624 : BGS Reference: TR36NW23

British National Grid (27700) : 634510,167210

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144/508

(For Institute use only) GEOLOGICAL CLASSIFICATION	NATURE OF STRATA British Geological Survey If measurements start below ground surface, state how far.	THICKNESS			DEPTH		
		Feet	Inches	Metres	Feet	Inches	Metre
		HEAD	Sandy clay and stones.			4.00	
BRICK EARTH	Soft silty clay			1.00		5.00	
	Stone and dark brown sand.			0.50		5.50	
UPPER CHALK	Soft chalk with some flints.			10.50		16.00	
	Soft chalk with some very soft seams, flints.			24.00		40.00	
	Soft chalk.			10.00		50.00	

PP
RDL
11/11/82



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718624 : BGS Reference: TR36NW23

British National Grid (27700) : 634510,167210

[Report an issue with this borehole](#)

For Institute use only) British Geological Survey GEOLOGICAL CLASSIFICATION	NATURE OF STRATA If measurements start below ground surface, state how far.	THICKNESS			DEPTH		
		Feet	Inches	Metres	Feet	Inches	Metre
HEAD BRICKENWORTH	Sandy clay and stones.			4.00		4.00	
	Soft silty clay			1.00		5.00	
	Stone and dark brown sand.			0.50		5.50	
UPPER CHALK	Soft chalk with some flints.			10.50		16.00	
	Soft chalk with some very soft seams, flints.			24.00		40.00	
	Soft chalk.			10.00		50.00	
<i>RAL 11.11.82.</i>							

TR36NW23

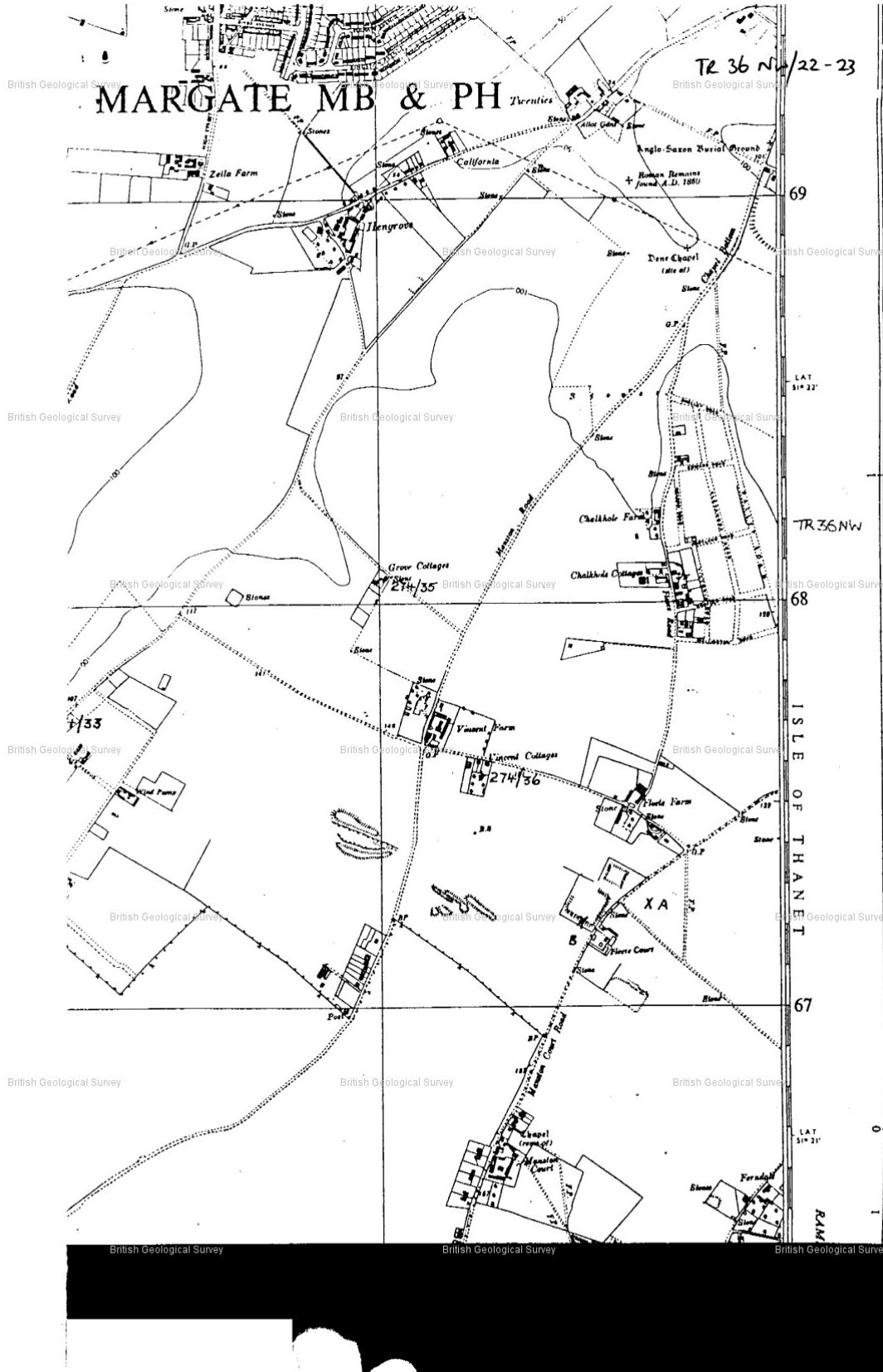


British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718624 : BGS Reference: TR36NW23
British National Grid (27700) : 634510,167210

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BGS ID: 718625 : BGS Reference: TR36NW24

British National Grid (27700) : 634300,165700

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FGE/2657 FIGURE 2.

MANSTON RAF
(Ash UKADGE RX)

Trial Pit Logs

Dug by Tractor/backhoe 31 January 1986

Trial Pit No 1

TR 36 NW 24
343 657

GL - 100mm	Turf and Topsoil.
100 - 400	Brown, loose to medium dense, clayey silty fine SAND.
400 - 900	Reddish-brown, medium dense, very clayey silty fine SAND.
900 - 1900	Grey-brown, medium dense, clayey, silty sandy slightly chalky, flint GRAVEL.
1900	White, very thinly bedded, very closely jointed CHALK. Moderately weak.
2500	Base of pit.

No ground water.

Trial Pit No 2

TR 36 NW 25
343 657

GL - 100mm	Turf and Topsoil.
100 - 400	Brown, loose to medium dense clayey silty fine SAND.
400 - 1200	Reddish-brown, medium dense, very clayey silty fine SAND.
1200 - 2100	Light grey-brown, medium dense, clayey wilty sandy flint GRAVEL and some chalk.
2100	White, very thinly bedded and vry closely jointed CHALK. Moderately weak.
2700	Base of pit.

No ground water.

Trial Pit No 3

TR 36 NW 26
343 657

GL - 100mm	Turf and Topsoil.
100 - 800	Brown, loose, clayey silty fine SAND.
800 - 1400	Reddish-brown, loose to medium dense very clayey silty fine SAND.
1400 - 1900	Light grey-brown, medium dense, clayey silty sandy flint GRAVEL - slightly chalky.
1900	White, very thinly bedded and very closely jointed CHALK. Moderately weak.
1900	Base of pit.

No ground water.

Trial Pit No 4

TR 36 NW 27
343 657

GL - 100mm	Turf and Topsoil.
100 - 300	Brown, loose, clayey silty fine SAND.
300 - 1000	Reddish-brown medium dense, very clayey silty fine SAND.
1000 - 2000	Grey-brown, medium dense, clayey, silty sandy flint GRAVEL with a trace of chalk.
2000	White, very thinly bedded, very closely jointed CHALK. Moderately weak.
2500	Base of pit.

No ground water



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NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718626 : BGS Reference: TR36NW25

British National Grid (27700) : 634300,165700

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FGE/2657 FIGURE 2.

MANSTON RAF
(Ash UKADGE RX)

Trial Pit Logs

Dug by Tractor/backhoe 31 January 1986

Trial Pit No 1

TR 36 NW 24
343 657

GL - 100mm	Turf and Topsoil.
100 - 400	Brown, loose to medium dense, clayey silty fine SAND.
400 - 900	Reddish-brown, medium dense, very clayey silty fine SAND.
900 - 1900	Grey-brown, medium dense, clayey, silty sandy slightly chalky, flint GRAVEL.
1900	White, very thinly bedded, very closely jointed CHALK. Moderately weak.
2500	Base of pit.

No ground water.

Trial Pit No 2

TR 36 NW 25
343 657

GL - 100mm	Turf and Topsoil.
100 - 400	Brown, loose to medium dense clayey silty fine SAND.
400 - 1200	Reddish-brown, medium dense, very clayey silty fine SAND.
1200 - 2100	Light grey-brown, medium dense, clayey wilty sandy flint GRAVEL and some chalk.
2100	White, very thinly bedded and very closely jointed CHALK. Moderately weak.
2700	Base of pit.

No ground water.

Trial Pit No 3

TR 36 NW 26
343 657

GL - 100mm	Turf and Topsoil.
100 - 800	Brown, loose, clayey silty fine SAND.
800 - 1400	Reddish-brown, loose to medium dense very clayey silty fine SAND.
1400 - 1900	Light grey-brown, medium dense, clayey silty sandy flint GRAVEL - slightly chalky.
1900	White, very thinly bedded and very closely jointed CHALK. Moderately weak.
1900	Base of pit.

No ground water.

Trial Pit No 4

TR 36 NW 27
343 657

GL - 100mm	Turf and Topsoil.
100 - 300	Brown, loose, clayey silty fine SAND.
300 - 1000	Reddish-brown medium dense, very clayey silty fine SAND.
1000 - 2000	Grey-brown, medium dense, clayey, silty sandy flint GRAVEL with a trace of chalk.
2000	White, very thinly bedded, very closely jointed CHALK. Moderately weak.
2500	Base of pit.

No ground water



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Geological Survey**

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BGS ID: 718627 : BGS Reference: TR36NW26

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FGE/2657 FIGURE 2.

MANSTON RAF
(Ash UKADGE RX)

Trial Pit Logs

Dug by Tractor/backhoe 31 January 1986

Trial Pit No 1

TR 36 NW 24
343 657

GL - 100mm	Turf and Topsoil.
100 - 400	Brown, loose to medium dense, clayey silty fine SAND.
400 - 900	Reddish-brown, medium dense, very clayey silty fine SAND.
900 - 1900	Grey-brown, medium dense, clayey, silty sandy slightly chalky, flint GRAVEL.
1900	White, very thinly bedded, very closely jointed CHALK. Moderately weak.
2500	Base of pit.

No ground water.

Trial Pit No 2

TR 36 NW 25
343 657

GL - 100mm	Turf and Topsoil.
100 - 400	Brown, loose to medium dense clayey silty fine SAND.
400 - 1200	Reddish-brown, medium dense, very clayey silty fine SAND.
1200 - 2100	Light grey-brown, medium dense, clayey wilty sandy flint GRAVEL and some chalk.
2100	White, very thinly bedded and very closely jointed CHALK. Moderately weak.
2700	Base of pit.

No ground water.

Trial Pit No 3

TR 36 NW 26
343 657

GL - 100mm	Turf and Topsoil.
100 - 800	Brown, loose, clayey silty fine SAND.
800 - 1400	Reddish-brown, loose to medium dense very clayey silty fine SAND.
1400 - 1900	Light grey-brown, medium dense, clayey silty sandy flint GRAVEL - slightly chalky.
1900	White, very thinly bedded and very closely jointed CHALK. Moderately weak.
1900	Base of pit.

No ground water.

Trial Pit No 4

TR 36 NW 27
343 657

GL - 100mm	Turf and Topsoil.
100 - 300	Brown, loose, clayey silty fine SAND.
300 - 1000	Reddish-brown medium dense, very clayey silty fine SAND.
1000 - 2000	Grey-brown, medium dense, clayey, silty sandy flint GRAVEL with a trace of chalk.
2000	White, very thinly bedded, very closely jointed CHALK. Moderately weak.
2500	Base of pit.

No ground water



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718628 : BGS Reference: TR36NW27
British National Grid (27700) : 634300,165700

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JOB No: _____

Size of pit & Orientation of face A N E

Type of excavator JCB
Type of pump (if used)
Timbering

Feature: Officer's Mess
Location: R.A.F. Manshon
Ground level on
Coordinates: E N

1 K 36 NW 27
331 666

Sheet 1 of 1

Water Conditions	Depth (Sample & tests)	Reduced Level	Depth	Profile of face A		Description
				(Width = m.)		
dry			metres			0 - Top soil
			0.5			Light brown firm very sandy silty calcareous CLAY with a little chalk gravel.
			1.0			White closely jointed and thinly bedded hard CHALK. Moderately weathered. Occasional flints.
			1.5			White closely jointed and thinly bedded hard CHALK. Slightly weathered. Occasional flints.
			2.0			
			2.5			
			3.0			
			3.5			
			4.0			
			4.5			
		5.0				

base of pit

<ul style="list-style-type: none"> X Vane test ● Small disturbed sample ○ Large disturbed sample ⊥ Undisturbed sample, vertical ▬ Undisturbed sample, horizontal ■ Block sample ▲ Water sample ⊥ Plate bearing test m Moisture content X 	Remarks: _____ Plans: _____ Contractor: BINNIE & PARTNERS Date dug: 25/6/86 Date backfilled: 25/6/86 Chartered Engineers Artillery House Westminster SW 1	Scale 1:25 metres Logged by: HJW Checked by: _____ Date: 25/6/86 Fig No. C1
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BGS ID: 718628 : BGS Reference: TR36NW27

British National Grid (27700) : 634300,165700

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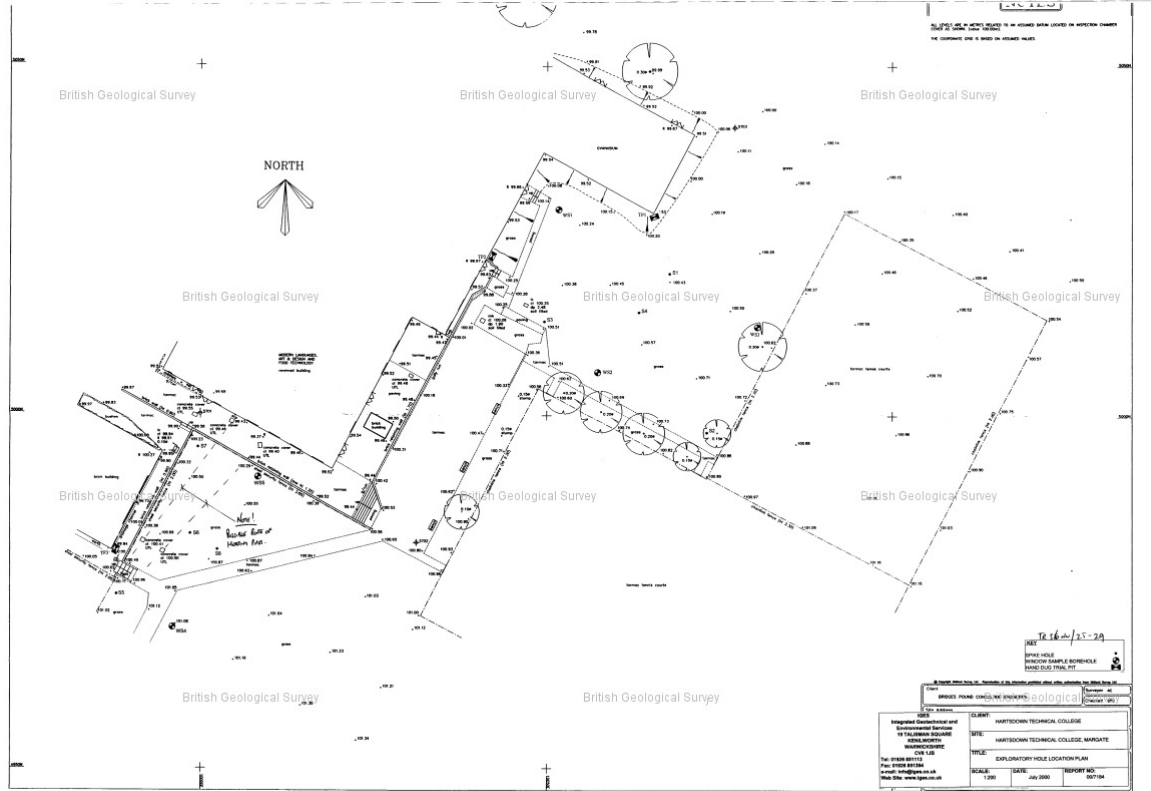
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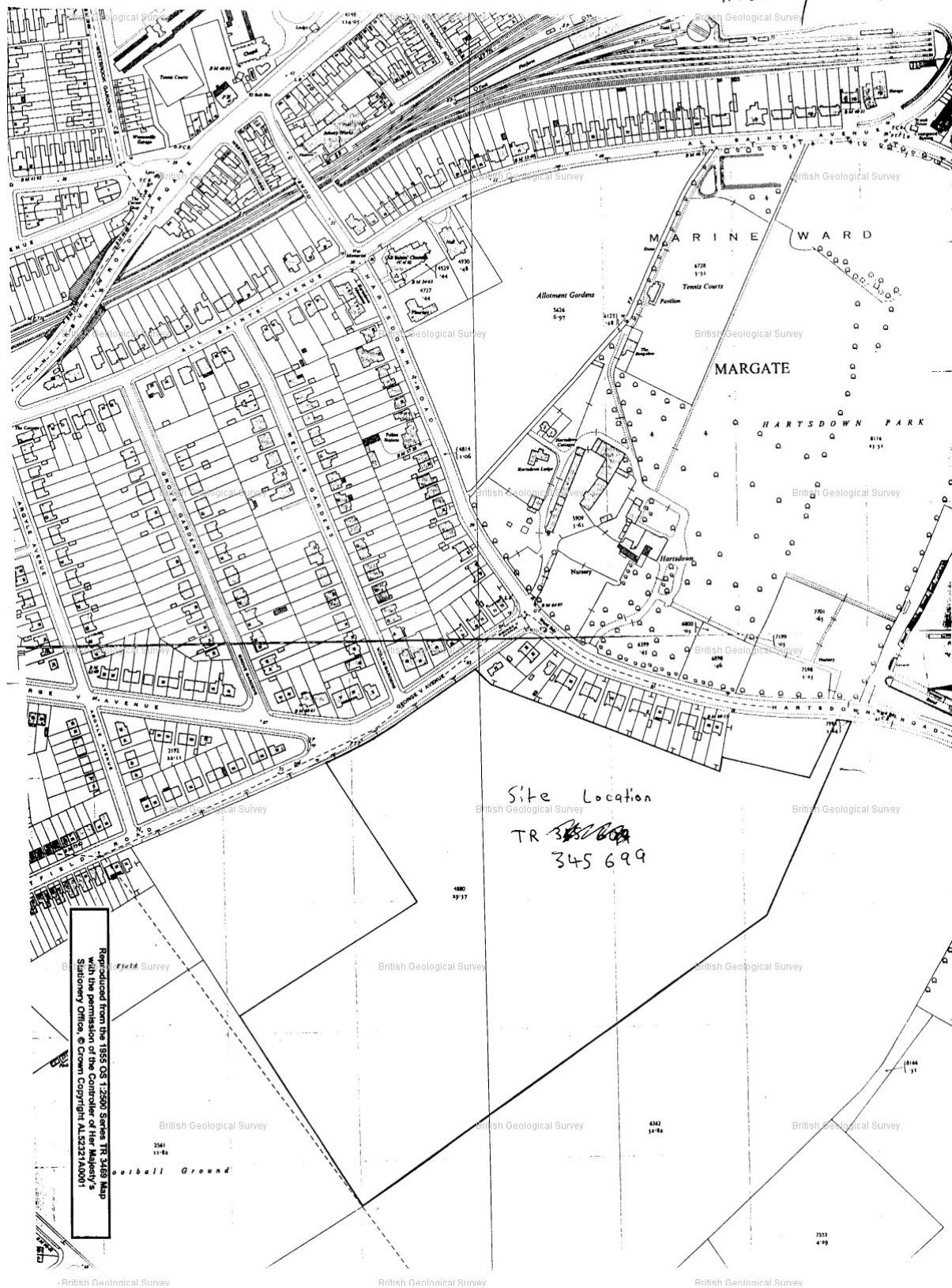
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TR 36 NW/25-29.





British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718677 : BGS Reference: TR36NW76

British National Grid (27700) : 633500,165900

[Report an issue with this borehole](#)

TR 36 NW / 76 GR. 335 659

Job No. 2408.49		Client : Property Services Agency Job : RAF MANSTON, MT Accommodation			Trial Pit No. MTA/1 Sheet No. 1 of 1.		
Equipment and Methods JCB				Location : MTA		Contractor : PSA/DWO	
				Coordinates :			
				Ground Level :			
Water Conds.	Tests	Samples	Red. Level	Depth (m)	Profile of Face	Description	
				0.00		Dark grey sandy TOPSOIL	
				0.20		Dark grey cinders. (Fill)	
						Firm brown silty sandy CLAY with occasional flint and chalk fragments. (Head)	
				1.10		Firm white and light brown structureless, becoming rubbly CHALK with occasional flints. (Grade IV-V)	
				1.80		Moderately weak white rubbly CHALK with occasional flints. (Grade IV)	
				2.10		End of Trial Pit	
Remarks Trial pit dry.				Plan - dimensions : 2.0m x 0.8m		BINNIE & PARTNERS Consulting Engineers	
						Date : 16.7.07 logged by HJM	
						Fig No 3	



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718678 : BGS Reference: TR36NW77

British National Grid (27700) : 633500,165900

[Report an issue with this borehole](#)

TR 36 NW/77 GR 335 659

Job No. 2400-48		Client : Property Services Agency Job : RAF MANSTON, MT Accommodation			Trial Pit No. MTA/2 Sheet No. 1 of 1.		
Equipment and Methods JCB				Location : MTA		Contractor : PSA/DWO	
Coordinates :				Ground Level :			
Water Conds.	Tests	Samples	Red. Level	Depth (m)	Profile of Face	Description	
				0.00		Dark grey sandy TOPSOIL	
				0.30		Dark grey cinders. FILL	
				0.90		Firm brown sandy, silty CLAY with occasional flint and chalk fragments. (Head)	
				1.80		Firm white and light brown structureless, becoming rubbly CHALK with occasional flints. (Grade IV-V)	
				2.00		Moderately weak white rubbly CHALK with occasional flints. (Grade IV)	
						End of Trial Pit	
Remarks Trial pit dry.				Plan - dimensions : 1.8m x 0.8m		BINNIE & PARTNERS Consulting Engineers	
						Date : 18.7.87 logged by H.W.	
						Fig No 4	



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718679 : BGS Reference: TR36NW78

British National Grid (27700) : 633500,165900

[Report an issue with this borehole](#)

TR 36 NW / 48 GR. 335 659

Job No. 2408.48		Client : Property Services Agency Job : RAF MANSTON, MT Accommodation			Trial Pit No. MTA/3 Sheet No. 1 of 1	
Equipment and Methods JCB			Location : MTA Coordinates : Ground Level :		Contractor : PSA/DWO	
Water Conds.	Tests	Samples	Red. Level	Depth (m)	Profile of Face	Description
				0.00		
				0.10		Brown silty TOPSOIL
				0.50		Brown and white chalky FILL. Contained blocks of brickwork.
				1.20		Firm brown sandy, silty CLAY with occasional flint and chalk fragments. Becoming more sandy at base. (read)
				2.10		Firm white and light brown structureless, becoming rubbly CHALK with occasional flints. (Grade IV-V)
				2.30		Moderately weak, white rubbly CHALK with occasional flints. (Grade IV)
						End of Trial Pit
Remarks Trial pit dry.				Plan - dimensions : 1.0m x 0.8m		BINNIE & PARTNERS Consulting Engineers
						Date : 16.7.87
						Fig No 5



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718680 : BGS Reference: TR36NW79

British National Grid (27700) : 633500,165900

[Report an issue with this borehole](#)

TR 36 NW/79 GR 385 659

Job No. 2408 48		Client : Property Services Agency Job : RAF MANSTON, MT Accommodation			Trial Pit No. MTA/4		
Equipment and Methods JCB		Location : MTA Coordinates : Ground Level :			Contractor : PSA/DWO		
Water Conds.	Tests	Samples	Red. Level	Depth (m)	Profile of Face	Description	
				0.00		Brown silty TOPSOIL	
				0.10		Brown and white chalky FILL. Telephone cables at 0.12m.	
				0.30		Fine brown sandy, silty CLAY with occasional flint and chalk fragments. (Head)	
				1.00		Fine white and light brown structureless, becoming rubbly CHALK with occasional flints. (Grade IV-V)	
				1.90		Moderately weak, white rubbly CHALK with occasional flints. (Grade IV)	
				2.10		End of Trial Pit	
Remarks Trial pit dry				Plan - dimensions : 1.7m x 0.8m		BINNIE & PARTNERS Consulting Engineers	
						Date : 16.7.87 logged by HJW	
						Fig No 6	



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718681 : BGS Reference: TR36NW80

British National Grid (27700) : 633500,165900

[Report an issue with this borehole](#)

TR 36 NW / 80 GR 335 659

Job No. 2408.49		Client : Property Services Agency Job : RAF MANSTON			Trial Pit No. ESH/1 Sheet No. 1 of 1.	
Equipment and Methods JCB				Location : ESH Coordinates : Ground Level :		Contractor : PSA/DWO
Water Conds.	Tests	Samples	Red. Level	Depth (m)	Profile of Face	Description
				0.00		Brown silty TOPSOIL
				0.20		Firm brown clayey sandy SILT with occasional flints and chalk fragments. (Head)
				0.70		Firm white and light brown structureless, becoming rubbly CHALK with occasional flints. (Grade IV-V)
				1.60		Moderately weak white rubbly CHALK with occasional flints. (Grade IV)
				1.90	End of Trial Pit	
Remarks Trial pit dry.				Plan - dimensions : 1.4m x 0.8m		BINNIE & PARTNERS Consulting Engineers
				Date : 18.7.87 logged by H.W		Fig No 7



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718688 : BGS Reference: TR36NW87
British National Grid (27700) : 634800,165700

[Report an issue with this borehole](#)

JOB No: TR 36NW/87
348 651

TEST PIT No. 29/1
Sheet of

Size of pit & Orientation of face A: N E
Type of excavator: **Hanna**
Type of pump (if used):
Timbering:

Feature: **Pole No 63**
Location: **Runway 29**
Ground level on \pm : **42.6 m.O.D.**
Coordinates: E: N:

Water Conditions	Depth (Sample & test)	Reduced Level	Depth	Profile of face A (Width in m.)	Description
		42.45	0		Topsoil
			0.5		Firm dark brown sandy CLAY (Head)
		41.4	1.0		
		41.1	1.8		Highly to moderately weathered yellow brown and white rubbly CHALK (Grade V + IV) Flints at top of chalk.
			2.0		
			2.5		
			3.0		
			3.5		
			4.0		
			4.5		
			5.0		

Remarks: Trial pit dry

Contractor: PSA (DWO)
Date dug: 22/9/88
Date backfilled:

Scale: 1:25 metres
Logged by: HJW
Checked by:
Date: 22/9/88
Fig. No: B7



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718689 : BGS Reference: TR36NW88
British National Grid (27700) : 634800,165700

[Report an issue with this borehole](#)

JOB No:		TR36NW88 348 657		TEST PIT No. 29/2 Sheet of	
Size of pit & Orientation of face A N E		Feature Pole No 78		Location Runway 29	
Type of excavator		Ground level on 41.5 m OD		Coordinates E N	
Type of pump (if used)					
Timbering					
Water Conditions	Depth (Sample & tests)	Reduced Level	Depth	Profile of face A (Width x m.)	Description
		41.4	0		Topsoil
		40.4	0.5		Firm light brown very sandy CLAY (Head)
		40.3	1.0		Highly weathered yellow brown rubblely CHALK (Grade V)
			1.5		
			2.0		
			2.5		
			3.0		
			3.5		
			4.0		
			4.5		
			5.0		
<ul style="list-style-type: none"> X Vane test ● Small disturbed sample ○ Large disturbed sample ↑ Undisturbed sample, vertical ▬ Undisturbed sample, horizontal □ Block sample ▲ Water sample ⊥ Plate bearing test m Moisture content % 			Remarks: Trial pit dry		Scale 1:25 metres Logged by HWJ Checked by Date 22/9/88 Fig. No. B 8
			Contractor: PSA (DWO)		
			Date dug: 22/9/88		
			Date backfilled:		



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718690 : BGS Reference: TR36NW89
British National Grid (27700) : 634800,165700

[Report an issue with this borehole](#)

JOB No:		TR 36 NW 89 348 657		TEST PIT No. 29/3 Sheet 61	
Size of pit & Orientation of face A		N E		Feature Pole No. 25	
Type of excavator				Location Runway 29	
Type of pump (if used)				Ground level on 36.5 m OD	
Timbering				Coordinates E N	
Water Conditions	Depth (Sample & tests)	Reduced Level	Depth	Profile of face A (Width = m)	Description
		36.5 36.4	0		Topsoil
		35.25 35.1	0.3		Firm brown sandy CLAY (Head)
			1.5		Highly to moderately weathered yellow brown and white blocky CHALK (Grade V/VI)
			2.0		
			2.5		
			3.0		
			3.5		
			4.0		
			4.5		
			5.0		
<ul style="list-style-type: none"> X Vane test o Small disturbed sample o Large disturbed sample ▬ Undisturbed sample vertical ▬ Undisturbed sample horizontal ▣ Block sample ▲ Water sample ⊥ Plate bearing test m Moisture content % 			Remarks: Trial pit dry		Scale 1:25 metres Logged by: HJW Checked by: Date: 22/9/88 Fig. No: 89
			Contractor: PSA (DWO)		
			Date dug: 22/9/88		
			Date backfilled:		



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718691 : BGS Reference: TR36NW90

British National Grid (27700) : 634800,165700

[Report an issue with this borehole](#)

JOB No:		TR36NW 190 348 657		TEST PIT No. 29/4 Sheet of	
Size of pit & Orientation of face A Type of excavator Type of pump (if used) Timbering		N E Hand		Feature Pole No. 100 Location Runway 29 Ground level on 37.5 m OD Coordinates. E N	
Water Conditions	Depth (Sample & tests)	Reduced Level	Depth	Profile of face A (Width in m.)	Description
		37.4	0	[Diagram showing profile of face A]	Topsoil
			0.5		Firm dark brown sandy CLAY (Head)
		36.35 36.2	1.0		
			1.3		Highly weathered yellow brown rubble CHALK (Grade V)
			2.0		
			2.5		
			3.0		
			3.5		
			4.0		
			4.5		
			5.0		
X Vane test ● Small disturbed sample ○ Large disturbed sample ▬ Undisturbed sample, vertical ▭ Undisturbed sample, horizontal □ Block sample ▲ Water sample I Plate bearing test m Moisture content %			Remarks: Trial pit dry Plans:		Scale 1:25 metres Logged by HJW Checked by Date 22/9/88 Fig. No. 810
			Contractor PSA (DWO) Date dug 22/9/88 Date backfilled		



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718692 : BGS Reference: TR36NW91
British National Grid (27700) : 634800,165700

[Report an issue with this borehole](#)

British Geological Survey		TR36NW91 348 657		TEST PIT No. 29/5 Sheet of	
JOB No:		Size of pit & Orientation of face A N E		Feature Pole No 106	
		Type of excavator Hand		Location Runway 29	
		Type of pump (if used)		Ground level on 33.40 m OD	
		Timbering		Coordinates E N	
Water Conditions	Depth (Sample & tests)	Reduced Level	Depth	Profile of face A (Width =)	Description
			metres		
		32.75	0		Brown clayey topsoil
		32.05	0.5		Firm dark brown sandy CLAY (Head)
		31.85	1.0		Highly weathered yellow brown rubble CHALK (Gravel)
			1.5		
			2.0		
			2.5		
			3.0		
			3.5		
			4.0		
			4.5		
			5.0		
<ul style="list-style-type: none"> X Vane test o Small disturbed sample Large disturbed sample Undisturbed sample, vertical Undisturbed sample, horizontal Block sample Water sample Plate bearing test M Moisture content % 			Remarks: Trial pit dry Contractor: PSA (S.W.O.) Date dug: 22/9/88 Date backfilled:		Scale 1:25 metres Logged by: HSW Checked by: Date: 22/9/88 Fig. No: 811



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718700 : BGS Reference: TR36NW99
British National Grid (27700) : 633900,166800

[Report an issue with this borehole](#)

JOB No: TR36NW99 339 668		TEST PIT No. WR1			
Size of pit & Orientation of face A: N E		Sheet of			
Type of excavator: JCB		Feature: Watchman Radar			
Type of pump (if used):		Location: RAF Mansdon			
Timbering:		Ground level on &			
		Coordinates: E N			
Water Conditions	Depth (Sample & test)	Reduced Level	Depth	Profile of face A (Width a m.)	Description
			metres		
			0		Topsoil: Ashes fill Firm dark brown sandy CLAY (Head)
			0.5		Yellow brown becoming white rubblely to blocky CHALK, highly to moderately weathered
			1.0		Flints
			1.5		(Grade V, becoming IV-V)
			2.0		Moderately weathered white blocky CHALK (Grade IV)
			2.5		
			3.0		
			3.5		
			4.0		
			4.5		
			5.0		
<ul style="list-style-type: none"> X Vane test ● Small disturbed sample ○ Large disturbed sample ▬ Undisturbed sample, vertical ▭ Undisturbed sample, horizontal □ Block sample ▲ Water sample L Plate bearing test m Moisture content % 			Remarks: Trial pit dry Contractor: PSA (SNO) Date dug: 22/9/88 Date backfilled:		Scale 1:25 metres Logged by: HJW Checked by: Date: 22/9/88 Fig. No: 18/1



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718701 : BGS Reference: TR36NW100
British National Grid (27700) : 633900,166800

[Report an issue with this borehole](#)

JOB No: _____		Size of pit & Orientation of face A TR36 TR36NW 100 339-668 N E		TEST PIT NO. 100 339-668 Sheet of _____	
Type of excavator JCB		Feature Watchman Radar		Location RAF Manshan	
Type of pump (if used)		Ground level on		Coordinates E N	
Timbering					
Water Conditions	Depth (Sample & tests)	Reduced Level	Depth	Profile of face A (width = m.)	Description
			metres		
			0		Brck and rubble fill.
			0.5		Firm dark brown CLAY (Head)
			1.0		Yellow brown and white highly weathered rubbly CHALK (Grade V)
			1.5		White moderately weathered blocky CHALK (Grade IV)
			2.0		
			2.5		
			3.0		
			3.5		
			4.0		
			4.5		
			5.0		
<ul style="list-style-type: none"> X Vane test ● Small disturbed sample ⬇ Large disturbed sample ⬆ Undisturbed sample, vertical ■ Undisturbed sample, horizontal ☐ Block sample ▲ Water sample L Plate bearing test m Moisture content % 			Remarks: Trial pit dry Contractor: PSA (DWC) Date dug: 22/9/88 Date backfilled:		Plan: Scale: 1:25 metres Logged by: HJW Checked by: Date: 22/9/88 Fig No: 10/2



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718710 : BGS Reference: TR36NW109
British National Grid (27700) : 634600,165700

[Report an issue with this borehole](#)

TR 36 NW 109

Contract : RX RECEIVER STATION		Coordinates :	
Client : RAF MANSTON		Dates : 25/1/91	
Job Number : G\0733		Dimensions :	
Trial Pit No.: TP A		Ground Level :	
Location : SE of Bush Farm			

Red. Level	Description	Depth m.	Samples Taken	In-Situ Tests	Legend	Diagram
0.00	Firm to stiff, brown, silty, sandy, gravelly, CLAY, friable, many roots at the top, sand and gravel - Chalk and Flints.	0.00				
0.60	Stiff to firm, brown, silty, sandy, gravelly, CLAY as above but with no roots. Vane peak shear strength test results in kPa - 100, 102, 66 & 96.	0.60				
1.10	Medium dense locally loose, orange brown, fine to coarse, SAND, locally very clayey.	1.30				
2.40	White grade 5/6 CHALK, dry and brittle/friable, locally mixed sand s/a and chalk gravel.	2.40				
2.90	End Of Trial Pit	2.90				

Key:	W Water	In-Situ Tests:	SPT SPT Value	General Remarks : The pit was dry. The edge of a concrete road, 200mm thick, was found in the south eastern corner of the pit at a depth of 0.6m. The road edge is orientated due east - west.
	P Piston		CPT CPT Value	
Sample Types:	J Jar		pp Pocket Penetrometer	
U Undisturbed	T Thin Wall		m/c Moisture Content %	
D Disturbed	X No Recovery			
B Bulk Disturbed				

Equipment and Methods: JCB 3CX	Scale : 4m/Sheet	Sheet No. 1 Of 1. Depth 0 to 4 metres.	Engineer : J.DAVIS
		Appendix :	Figure No. :



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718711 : BGS Reference: TR36NW110
 British National Grid (27700) : 634600,165700

[Report an issue with this borehole](#)

TR36NW110

Contract : RX RECEIVER STATION		Coordinates	
Client : RAF MANSTON		Dates : 25/1/91	
Job Number : G\0733		Dimensions :	
Trial Pit No. : TP B		Ground Level :	
Location : SE of Bush Farm			

Red. Level	Description	Depth m.	Samples Taken	In-Situ Tests	Legend	Diagram
	Stiff to firm, brownish red, silty, sandy, CLAY, with some fine to medium Chalk gravel. Vane peak/residual shear strengths in kPa at approx. 0.6m - 90/30, 105/45, 80/30 & 94/30.	0.00			XD	
		(1.10)			XD	
	White grade 6 CHALK, dry and brittle/friable, very sandy at the top.....becoming grade 5 at approx 2.0m. Some black flint cobbles seen.	1.10			XD	
		(1.50)			XD	
	End Of Trial Pit	2.60			XD	

Key: M Water P Piston J Jar U Undisturbed D Disturbed B Bulk Disturbed T Thin Wall * No Recovery	In-Situ Tests: SPT SPT Value CPT CPT Value pp Pocket Penetrometer m/c Moisture Content %	General Remarks : The pit was dry. Digging difficult from 2.5m.
Equipment and Methods: JCB 3CX		Scale : 4m/Sheet Sheet No. 1 Of 1. Depth 0 to 4 metres.
Engineer : J.DAVIS		Appendix : Figure No. :



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718712 : BGS Reference: TR36NW111
British National Grid (27700) : 634600,165700

[Report an issue with this borehole](#)

TR36NW 111

Contract : RX RECEIVER STATION			Coordinates			
Client : RAF MANSTON			Dates : 25/1/91			
Job Number : G\0733		Dimensions :				
Trial Pit No.: TP C		Ground Level :				
Location : SE of Bush Farm						
Red. Level	Description	Depth m	Samples Taken	In-Situ Tests	Legend	Diagram
	Firm, brown, silty, sandy, CLAY, with some chalk and flint gravel, many rootlets.	0.00				
		(0.45)				
	White grade 5/6 CHALK, dry & brittle/friable, locally grade 6 at the top.	0.45				
		(1.55)				
	End Of Trial Pit	2.00				
Key:		In-Situ Tests:		General Remarks :		
W Water		SPT SPT Value		The pit was dry.		
P Piston		CPT CPT Value				
Sample Types:		pp Pocket Penetrometer				
U Undisturbed		n/c Moisture Content %				
D Disturbed						
B Bulk Disturbed						
J Jar						
T Thin Wall						
X No Recovery						
Equipment and Methods:		Scale :		Sheet No. 1 Of 1.		
JCB 3CX		4m/Sheet		Depth 0 to 4 metres.		
		Engineer :		Appendix :		
		J.DAVIS		Figure No. :		



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718713 : BGS Reference: TR36NW112
 British National Grid (27700) : 634600,165700

[Report an issue with this borehole](#)

TR36 NW 112

Contract : RX RECEIVER STATION		Coordinates :	
Client : RAF MANSTON		Dates : 25/1/91	
Job Number : G\0733		Dimensions :	
Trial Pit No.: TP 0		Ground Level :	
Location : SE of Bush Farm			

Red. Level	Description	Depth m.	Samples Taken	In-Situ Tests	Legend	Diagram
	Firm, red brown, silty, very sandy, CLAY, with some fine to coarse, Chalk and Flint gravel, many rootlets at the top. Vane peak/residual shear strengths in kPa at approx 0.6m - 55/15, 68/20 & 42/10 and at approx. 0.8m - 93/30, 30/20 & 60/20.	0.00				
		1.90				
	White grade 6 CHALK, dry & brittle/friable.	1.90				
		2.60				
	End Of Trial Pit					

Key: W Water P Piston U Undisturbed D Disturbed B Bulk Disturbed	In-Situ Tests: SPT SPT Value CPT CPT Value pp Pocket Penetrometer % No Recovery m/c Moisture Content %	General Remarks : The pit was dry.
Equipment and Methods: JCB 3CX		Scale : 4m/Sheet Sheet No. 1 Of 1. Depth 0 to 4 metres. Engineer : J.DAVIS Appendix : Figure No. :



British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718714 : BGS Reference: TR36NW113
British National Grid (27700) : 634360,166930

[Report an issue with this borehole](#)

TR 36 NW 113

Location : RAF MANSTON		Trial Pit No.: TP1	
Project : Monopulse SSR		Dates : 25/2/91	
Client : PSA Services		Dimensions :	
Report No. : G/0731		Ground Level : m above OD	

Red. Level	Description	Depth m.	Samples Taken	In-Situ Tests	Legend	Remarks
0.00	Turf over dark brown very sandy CLAY with a few scattered pebbles. (Topsoil)	(0.20)				
0.20	Firm brown sandy CLAY with a little fine to coarse sub rounded flint gravel becoming more gravelly with depth.	(0.80)	B 8535			
1.00	Firm brown sandy very gravelly CLAY, gravel comprises fine to coarse sub rounded flint with occasional fragments of chalk.	(0.50)	B 8536			Plate Loading Test (No P1) carried out at 0.8m below GL. (Plate Dia. 24")
1.50	End Of Trial Pit					Plate Loading Test (No P2) carried out at 1.5m below GL. (Plate Dia. 24")

Key: W Water P Piston J Jar U Undisturbed D Disturbed B Bulk Disturbed	In-Situ Tests: SPT SPT Value CPT CPT Value k Plate Bearing Test pp Pocket Penetrometer m/c Moisture Content %	General Remarks : 1. Log of pit sunk to carry out Plate Loading Tests. 2. No water entries noted.
Equipment and Methods: J C B Mechanical Digger fitted with a 1.0m bucket.		Scale : 3m/Sheet Sheet No. 1 Of 1. Depth 0 to 3 metres.
Logged By : K McElmeel		Appendix : Figure No. : A-1





British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 718715 : BGS Reference: TR36NW114
 British National Grid (27700) : 634360,166930

[Report an issue with this borehole](#)

Red. Level		Description	Depth m.	Samples Taken	In-Situ Tests	Legend	Remarks
		Location : RAF MANSTON		Trial Pit No.: TP2		TR 36 NW 114	
		Project : Monopulse SSR		Dates : 27/2/91			
		Client : PSA Services		Dimensions :			
		Report No. : G/0731		Ground Level : n above OD			
		Turf over dark brown very sandy CLAY with a few scattered pebbles. (Topsoil)	0.00				
		Firm brown very sandy CLAY with a little fine to coarse sub rounded flint gravel.	(0.80)				
		Firm brown sandy very gravelly CLAY. gravel comprises fine to coarse sub rounded flint with occasional fragments of chalk.	0.90				
			(0.80)				
		Yellowish white heavily iron stained in places structureless remoulded CHALK with occasional lumps of intact chalk. (Grade V)	1.70				
			(0.50)				
		Creamy white rubbly lightly weathered CHALK with closely spaced bedding and jointing, some joints open and lightly iron stained. (Grade IV to III)	2.20	B 8537			
			(0.20)				
			2.40				Plate Loading Test (NO P3) carried out at 2.4m below GL. (Plate Dia. 24")
							End Of Trial Pit
Key:		W Water	In-Situ Tests:		General Remarks :		
Sample Types:		P Piston	SPT SPT Value	1. Log of pit sunk to carry out a Plate Loading Test.			
U Undisturbed		J Jar	CPT CPT Value	2. No water entries noted.			
D Disturbed		T Thin Wall	k Plate Bearing Test				
B Bulk Disturbed		X No Recovery	pp Pocket Penetrometer				
			m/c Moisture Content %				
Equipment and Methods:		J C B Mechanical Digger fitted with a 1.0m bucket.		Scale :	Sheet No. 1 Of 1.	Depth 0 to 3 metres.	
				Logged By :	Appendix :	Figure No. :	
				K McElmeel		A-2	





Appendix F

Environmental Search Thanet District Council

Date: 10/08/16
Our Ref: WK/201616961



Vanessa Dahmoun
Amec Foster Wheeler
Floor 4
60 London Wall
London EC2M 5TQ

Dear Vanessa,

RE: Request for Information RE: Manston Airport, Manston Road, Ramsgate, Kent. CT12 5BL

Thank you for your letter and payment received by this department. Please find attached a receipt for your records. I refer to your request for information on contaminated land held by this Office. This department does not hold information on historic MOD remediation of the former Kent International Airport site.

Under Part IIA of the Environmental Protection Act 1990, Local Authorities have the responsibility to identify contaminated land and initiate enforcement / remedial measures where necessary. Officers are currently prioritising sites for further investigation using historical land use information, geological and hydrogeological information and current land use data.

I would emphasise that any information provided by Thanet District Council does not act as a guarantee against the Authority taking further action in respect of land contamination at the above, in the future. This Authority does not have a published Contaminated Land Register.

Having researched our records and additional data in the vicinity of your site using our in-house mapping database (see appendices attached), I am able to provide the following information in answer to your enquiry. To the best of our knowledge:

1. The above site overlies the former Kent International Airport which has former uses as an RAF base and commercial airport (with underground fuel storage facilities). Given the history of the site and on-site presence of USTs, there exists the potential for contamination of the ground from leaks or spills of fuel/oil/hydrocarbons/etc..., ACM's, UXO's from WWII activities and a variety of products used in the running and maintenance of commercial and military airfields and aircraft.
2. The site also lies within 250m of various potentially contaminated features, including: Former Fuel Depot, Cemetery, Hospital, Laundry, Military Land, Petroleum Tanks, Quarry, Road Haulage, Filled Ground, Brick Works, Refuse Disposal and PFS. Please note, due to the size of the application site three separate spatial analysis reports have been compiled covering the full site perimeter.
3. Based on the information currently held regarding the contamination risk at the above, this department is not intending to take action under Part IIA of the EPA 1990. However, should further information come to light regarding potential contamination at the above in the future, this department would re-evaluate any potential risk to human health and the environment, including controlled waters at this time.

Environmental Health
Morgan Sproates
Environmental Protection Manager

Contact Officer: Morgan Sproates
Direct Dial: 01843 577081

Thanet District Council
PO Box 9
Cecil Street
Margate
Kent
CT9 1XZ

01843 577000
www.thanet.gov.uk

Given the former military/commercial/industrial uses of the application site and its location overlying Groundwater Source Protection Zones 1, 2 & 3, if redevelopment or a change of use is proposed, the developer would be required as a condition of Planning to investigate whether any land contamination exists and, if necessary, devise a strategy to deal with it.

4. Please find regulatory processes (Part B list) attached.
5. Please see Jacobs Phase 1 & 2 report submitted in connection with the 2009 KIA radar mast application F/TH/09/0637 at:

<https://planning.thanet.gov.uk/online-applications/applicationDetails.do?activeTab=documents&keyVal=ZZZZMWQEBJ103>

6. Please contact the Planning Department or visit: www.ukplanning.com
7. Please find attached.

If you wish to research this matter further, the following additional sources of information may be useful: Environment Agency website, old Ordnance Survey maps, trade directories and local archives and histories. Further information on potential petrol tanks of concern in the area can be obtained from the Petroleum Officer at Kent County Council, Trading Standards.

If you have any queries or require any further information please do not hesitate to contact me.

Yours Sincerely,



Morgan Sproates
Environmental Protection Manager

Environmental Health
Morgan Sproates
Environmental Protection Manager

Contact Officer: Morgan Sproates
Direct Dial: 01843 577081

Thanet District Council
PO Box 9
Cecil Street
Margate
Kent
CT9 1XZ

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www.thanet.gov.uk

List of Installations

Reference	Site Address	Grid Ref	Operator	Date Applied	Reg Section Number	PGN Code	Process Description
24-06/07	Manston Road Margate, Kent	635305 169225	Thanet Crematorium	2.8.91	Section 5.1	PG 5/2	Incinerator
21-06/07	Manston Road Margate Kent CT9 4LX	635129 168924	Cemex	26.3.92	Section 3.1	PG 3/1	Cement & Lime
18-06/07	Patricia Way Pysons Road Broadstairs Kent CT10 2XZ	637422 167275	Blaze Neon	15.1.93	Section 6.5	PG 6/23	Coating Process
23-06/07	Pysons Road Broadstairs Kent. CT10 2LE	637613 167231	Fujifilm	15.8.96	Section 6.5	PG 6/11	Manufacture of Printing Ink
16-06/07	71 Monkton Street Monkton Kent CT12 4JF	628946 165041	DDS	28.5.97	Section 3.4	PG 3/16	Concrete Crushing
PPC010	424 Margate Road Ramsgate CT12 6SJ	Mobile	Groundworks Solutions	6.5.16	Section 3.4	PG3/16	Concrete Crushing
19-06/07	Manston Park Columbus Avenue Manston Ramsgate	631391 166794	Cummins	19.12.00	Section 6.5	PG 6/23	Coating Process
1-10/11	Port Ramsgate	TR379631	Bretts	1.6.10	Section 3.1	PG3/1	Cement & Lime

04-05/06	292 Northdown Road Cliftonville, Margate Kent CT9 2PT	636800 170756	Shell	19.5.97	Section 1.4	PG 1/14	Vapour Recovery
09-05/06	Canterbury Road East Ramsgate Kent CT11 OLB	636026 165012	Shell	11.11.98	Section 1.4	PG 1/14	Vapour Recovery
12-05/06	155 Hereson Road Ramsgate Kent CT11 7EL	638777 165964	Murco	10.12.98	Section 1.4	PG 1/14	Vapour Recovery
05-05/06	361 Canterbury Road Birchington Kent CT7 9TZ	629763 168462	Shell	31.12.98	Section 1.4	PG 1/14	Vapour Recovery
14-05/06	36-40 High Street St Lawrence Ramsgate Kent CT11 0QW	637051 165258	J C Morrison	16.2.99	Section 1.4	PG 1/14	Vapour Recovery
13-05/06	Broadway Garage Broadstairs Kent CT10 2AY	638979 168016	J C Morrison	16.2.99	Section 1.4	PG 1/14	Vapour Recovery
PC0008[1]	425 Margate Road Westwood Broadstairs, Kent	636506 167707	J Sainsbury PLC	10.7.14	Section 1.4	PG 1/14	Vapour Recovery
15-05/06	Sandwich Road Cliffsend Ramsgate CT12 5JB	634538 163812	Pegwell	12.1.00	Section 1.4	PG 1/14	Vapour Recovery
11-05/06	233 - 235 Canterbury Road, Garlinge Kent	633420 169841	BP	20.3.00	Section 1.4	PG 1/14	Vapour Recovery
07-05/06	475 Margate Rd, Westwood Broadstairs	636587 167695	Tesco	14.9.01	Section 1.4	PG1/14	Vapour Recovery

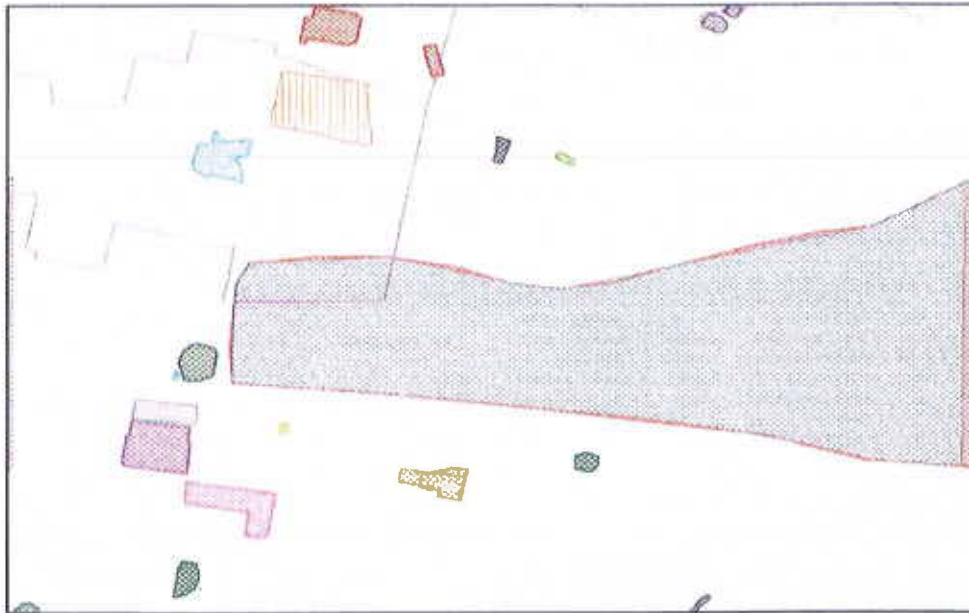
01-05/06	Manston Rd Ramsgate Kent CT12 6NT	636218 165608	Tesco	16.06.03	Section 1.4	PG 1/14	Vapour Recovery
01-05/06	Tothill Street Minster Kent CT12 4AU	631162 165640	Co-Op Minster	29/7/05	Section 1.4	PG 1/14	Vapour Recovery

03-07/08	Northwood Road Ramsgate CT12 6RR	637011 167106	K Laundry	Jul 07	Section 7	PG 6/46	Dry Cleaners
04-07/08	4 Cuthbert Road Westgate CT8 8NR	632296 169991	Clothescare	Jul 07	Section 7	PG 6/46	Dry Cleaners
05-07/08	5 New Street Margate CT9 1EG	635417 170901	Mark Michaels	Jul 07	Section 7	PG 6/46	Dry Cleaners
06-07/08	374 Northdown Road Margate CT9 3PQ	637238 170703	Fox Dry Cleaners	Jul 07	Section 7	PG 6/46	Dry Cleaners
07-07/08	58 Station road Birchington CT7 9RA	630066 169229	Jons Dry Cleaners	Jul 07	Section 7	PG 6/46	Dry Cleaners
09-07/08	74 Queen Street Ramsgate CT11 9ER	638073 164771	Paris Dry Cleaners	Jul 07	Section 7	PG 6/46	Dry Cleaners
10-07/08	61 High Street Broadstairs CT10 1JL	639502 167827	Silvesters	Jul 07	Section 7	PG 6/46	Dry Cleaners
01-08/09	138 High Street Broadstairs CT10 1JB	639325 167913	Albabas	Jul 08	Section 7	PG 6/46	Dry Cleaners

MVM Contaminated Land - Spatial Analysis

18 November 2015

Spatial search based on: User drawn Polygon
 Buffer width: 250 metres



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Key:	
	Bulk Fuel Storage
	Cemetery
	Hospital
	Laundry
	Military Use
	Petrol Tank License (Expired)
	Petroleum Tank (Not PFS)
	Quarry
	Road Haulage
	Source Protection Zone
	Vehicle Repair

Source Protection Zone



Giskey
 Id
 Sitename
 Sitedetails

13
 RC/00000013
 Lord of the Manor
 Groundwater Source Protection Zone 1 - Lord of the

Source Protection Zone



Giskey
 Id

14
 RC/00000014

Sitename
Sitedetails

Lord of the Manor
Groundwater Source Protection Zone 2 - Lord of the

Quarry



Giskey 17
Id CL/00000017
Sitename Initially Used as a Quarry. (1877,1898)
Ownername
Sitedetails Initially Used as a Quarry. (1877,1898) (s10310004)
Actnotes
Classid C009
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Source Protection Zone



Giskey 20
Id RC/00000020
Sitename
Sitedetails

Source Protection Zone



Giskey 21
Id RC/00000021
Sitename Thanet SPZ
Sitedetails

Quarry



Giskey 54
Id CL/00000054
Sitename Initially used as a Quarry and later filled with unknown
Ownername
Sitedetails Initially used as a Quarry and later filled with unknown
Actnotes
Classid C009
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Hospital



Giskey 102
Id CL/00000102
Sitename Fever Hospital (1898)
Ownername
Sitedetails Fever Hospital (1898) (s168100007308)
Actnotes
Classid C006
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Laundry

Giskey 193
Id CL/00000193
Sitename Minster Laundry (Tanks) (1908,1938,1961)
Ownername
Sitedetails Minster Laundry (Tanks) (1908,1938,1961) (s16710)
Actnotes
Classid C016
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Road Haulage

Giskey 262
Id CL/00000262
Sitename Road Haulage
Ownername
Sitedetails Road Haulage (1976) (s155100019252)
Actnotes
Classid C039
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Cemetery

Giskey 263
Id CL/00000263
Sitename Cemetary
Ownername
Sitedetails Cemetary (1908,1938,1961,1976) (s168100007303)
Actnotes
Classid C010
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Vehicle Repair

Giskey 264
Id CL/00000264
Sitename Motor Vehicle - Repair, Maintenance
Ownername
Sitedetails Motor Vehicle - Repair, Maintenance (1976) (s11910)
Actnotes
Classid C040
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Petrol Tank License (Expired)


Giskey 385
Id CL/00000385
Sitename Great West Autos Ltd
Ownername
Sitedetails Former Highway Depot. TS Ref PET482. 1 Tank. Fi
Actnotes
Classid C041
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Petrol Tank License (Expired) 

Giskey 389
Id CL/00000389
Sitename Cleve Court Farm
Ownername
Sitedetails L.S. Sayer & Son. TS Ref. E115. 1 x 500g. Installed
Actnotes
Classid C041
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Petroleum Tank (Not PFS) 

Giskey 482
Id CL/00000482
Sitename Wilson & Wilson Ltd
Ownername
Sitedetails 1 x 1000g. installed 1951. Removed from site to Ric
Actnotes
Classid C051
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Military Use 

Giskey 574
Id CL/00000574
Sitename Manston Airport
Ownername Alistair Robertson
Sitedetails Former RAF Base. Currently Commercial Airport.
Actnotes
Classid C001
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Bulk Fuel Storage 

Giskey 591
Id CL/00000591
Sitename Former Fuel Depot

Ownername
Sitedetails
Actnotes
Classid C053
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

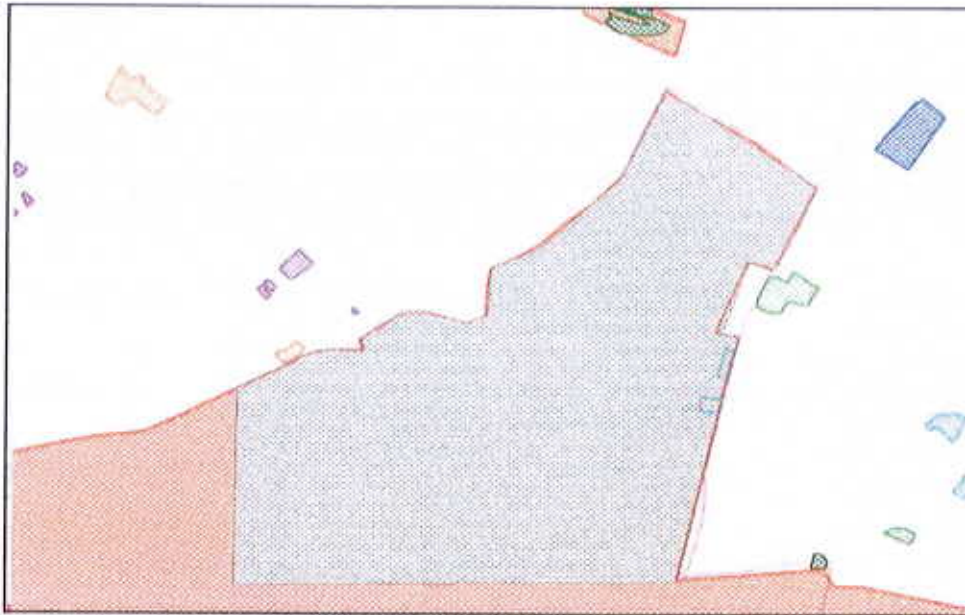
Road Haulage

Giskey 689
Id CL/00000689
Sitename Manston Express Transport
Ownername I File - 01843822822
Sitedetails
Actnotes
Classid C039
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

MVM Contaminated Land - Spatial Analysis

18 November 2015

Spatial search based on: User drawn Polygon
 Buffer width: 250 metres



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Source Protection Zone



Giskey
 Id
 Sitename
 Sitedetails

13
 RC/00000013
 Lord of the Manor
 Groundwater Source Protection Zone 1 - Lor od the

Source Protection Zone



Giskey
 Id
 Sitename
 Sitedetails

14
 RC/00000014
 Lord of the Manor
 Groundwater Source Protection Zone 2 - Lord of the

Source Protection Zone

Giskey 21
Id RC/00000021
Sitename Thanet SPZ
Sitedetails

Filled Ground

Giskey 131
Id CL/00000131
Sitename RAF
Ownername
Sitedetails Unknown Filled Ground (1938) (s561100027662)
Actnotes
Classid C011
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Filled Ground

Giskey 132
Id CL/00000132
Sitename RAF
Ownername
Sitedetails Unknown Filled Ground (1938) (s561100027663)
Actnotes
Classid C011
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Quarry

Giskey 133
Id CL/00000133
Sitename The Dump
Ownername
Sitedetails Quarrying of Sand & Clay (1938) (s103100048566)
Actnotes
Classid C009
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Quarry

Giskey 134
Id CL/00000134
Sitename The Dump
Ownername
Sitedetails Quarrying of Sand & Clay (1938) (s103100048567)
Actnotes
Classid C009
Source_Path_Receptor No

Significant_Harm No
Registered No
Special_Status No
Sprnotes

Filled Ground 

Giskey 191
Id CL/00000191
Sitename Unknown Filled Ground (1908)
Ownername
Sitedetails Unknown Filled Ground (1908) (s561100027660)
Actnotes
Classid C011
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Filled Ground 

Giskey 192
Id CL/00000192
Sitename Unknown Filled Ground (1908)
Ownername
Sitedetails Unknown Filled Ground (1908) (s561100027661)
Actnotes
Classid C011
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Brick Works 

Giskey 194
Id CL/00000194
Sitename Brick Works
Ownername
Sitedetails Brick Works (1908) (s143100007219)
Actnotes
Classid C030
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Petrol Tank License (Expired) 

Giskey 306
Id CL/00000306
Sitename Manston Court Garage
Ownername
Sitedetails Manston Court Garage, Manston ()
Actnotes
Classid C041
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No

Sprnotes

Military Use

Giskey 335
Id CL/00000335
Sitename The Dump
Ownername
Sitedetails See Information provided in support TH/02/0897 and
Actnotes
Classid C001
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Petrol Tank License (Expired)

Giskey 375
Id CL/00000375
Sitename London Manston Airport
Ownername
Sitedetails Converted to Jet Fuel. TS ref 1076. 2 x 27276 Litres
Actnotes
Classid C041
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Petrol Tank (Safe or Removed)

Giskey 471
Id CL/00000471
Sitename Manston Court Farm
Ownername
Sitedetails TS Ref:PET1774. 3x500g, 1 tank installed in 1939, s
Actnotes
Classid C052
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Military Use

Giskey 574
Id CL/00000574
Sitename Manston Airport
Ownername Alistair Robertson
Sitedetails Former RAF Base. Currently Commercial Airport.
Actnotes
Classid C001
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Bulk Fuel Storage

Giskey	591
Id	CL/00000591
Sitename	Former Fuel Depot
Ownername	
Sitedetails	
Actnotes	
Classid	C053
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status	No
Sprnotes	

Refuse Disposal

Giskey	649
Id	CL/00000649
Sitename	Thanet Waste Management
Ownername	L J Ray - 01843821500
Sitedetails	Waste Disposal Services
Actnotes	
Classid	C029
Source_Path_Receptor	No
Significant_Harm	No
Registered	No
Special_Status	No
Sprnotes	

MVM Contaminated Land - Spatial Analysis

18 November 2015

Spatial search based on: User drawn Polygon
 Buffer width: 250 metres



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Key:

	Bulk Fuel Storage
	Former Petrol Filling Station
	Military Use
	Petrol Tank (Safe or Remove)
	Petroleum Tank (Not PFS)
	Quarry
	Source Protection Zone

Source Protection Zone



Giskey 13
 Id RC/00000013
 Sitename Lord of the Manor
 Sitedetails Groundwater Source Protection Zone 1 - Lor od the

Source Protection Zone



Giskey 14
 Id RC/00000014
 Sitename Lord of the Manor
 Sitedetails Groundwater Source Protection Zone 2 - Lord of the

Source Protection Zone



Giskey 21

Id
Sitename
Sitedetails

RC/00000021
Thanet SPZ

Quarry



Giskey 144
Id CL/00000144
Sitename Quarrying (1938)
Ownername
Sitedetails Quarrying (1938) (s103100046537)
Actnotes
Classid C009
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Petrol Tank (Safe or Removed)



Giskey 377
Id CL/00000377
Sitename Chapel Farm
Ownername
Sitedetails TS Ref PET 105 TH448. 1137 litres. Cement Slurry
Actnotes
Classid C052
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Petroleum Tank (Not PFS)



Giskey 470
Id CL/00000470
Sitename Kilnwood Homes Ltd
Ownername
Sitedetails 1x500g. Slurry filled in 1997. Verified. Unknown loc
Actnotes
Classid C051
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Bulk Fuel Storage



Giskey 568
Id CL/00000568
Sitename Jentex Petroleum
Ownername
Sitedetails Currently and Historically used for fuel storage.
Actnotes
Classid C053
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

Military Use 

Giskey 574
Id CL/00000574
Sitename Manston Airport
Ownername Alistair Robertson
Sitedetails Former RAF Base. Currently Commercial Airport.
Actnotes
Classid C001
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

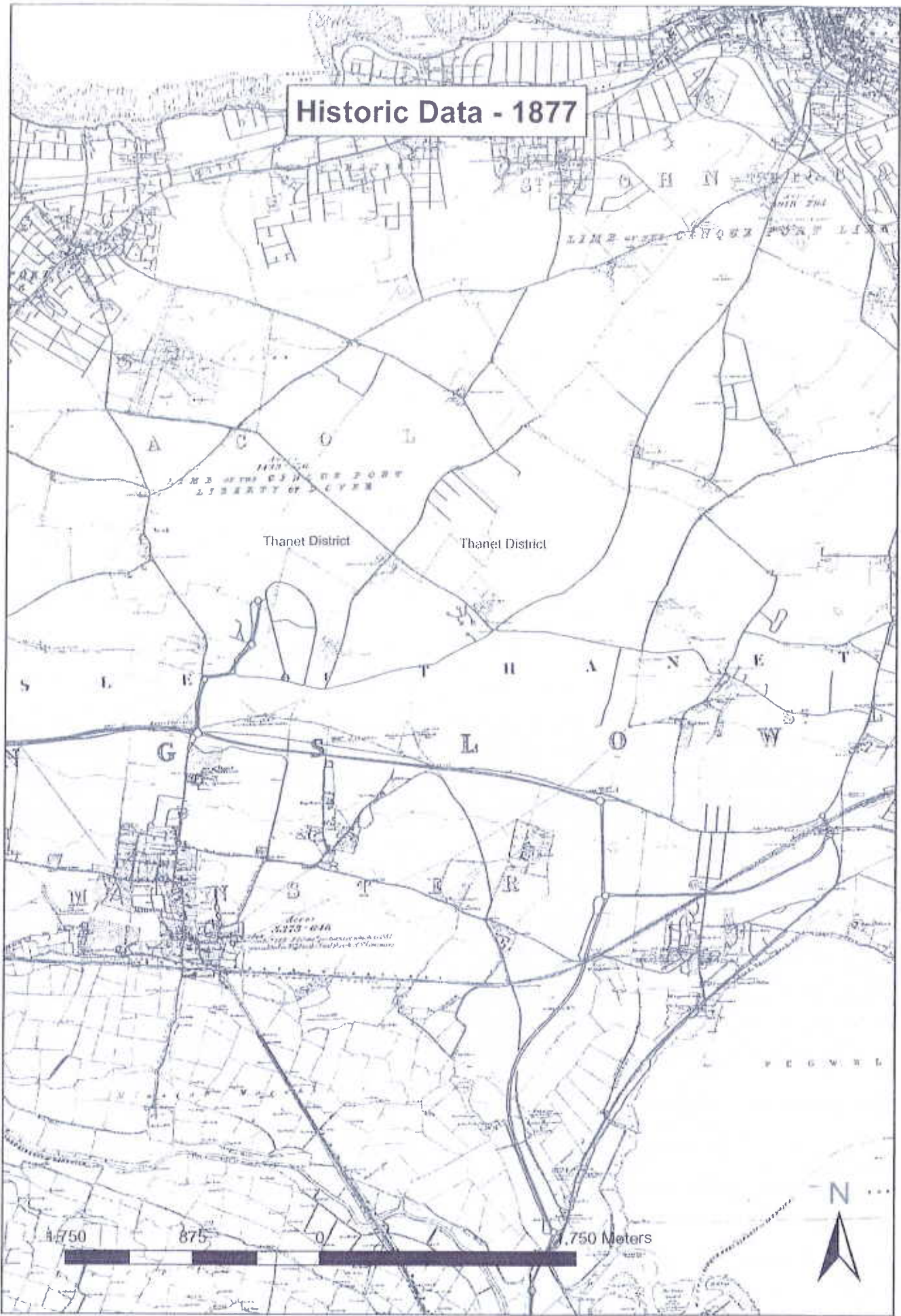
Former Petrol Filling Station 

Giskey 589
Id CL/00000589
Sitename Manna Hutte Garage
Ownername
Sitedetails
Actnotes
Classid C049
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

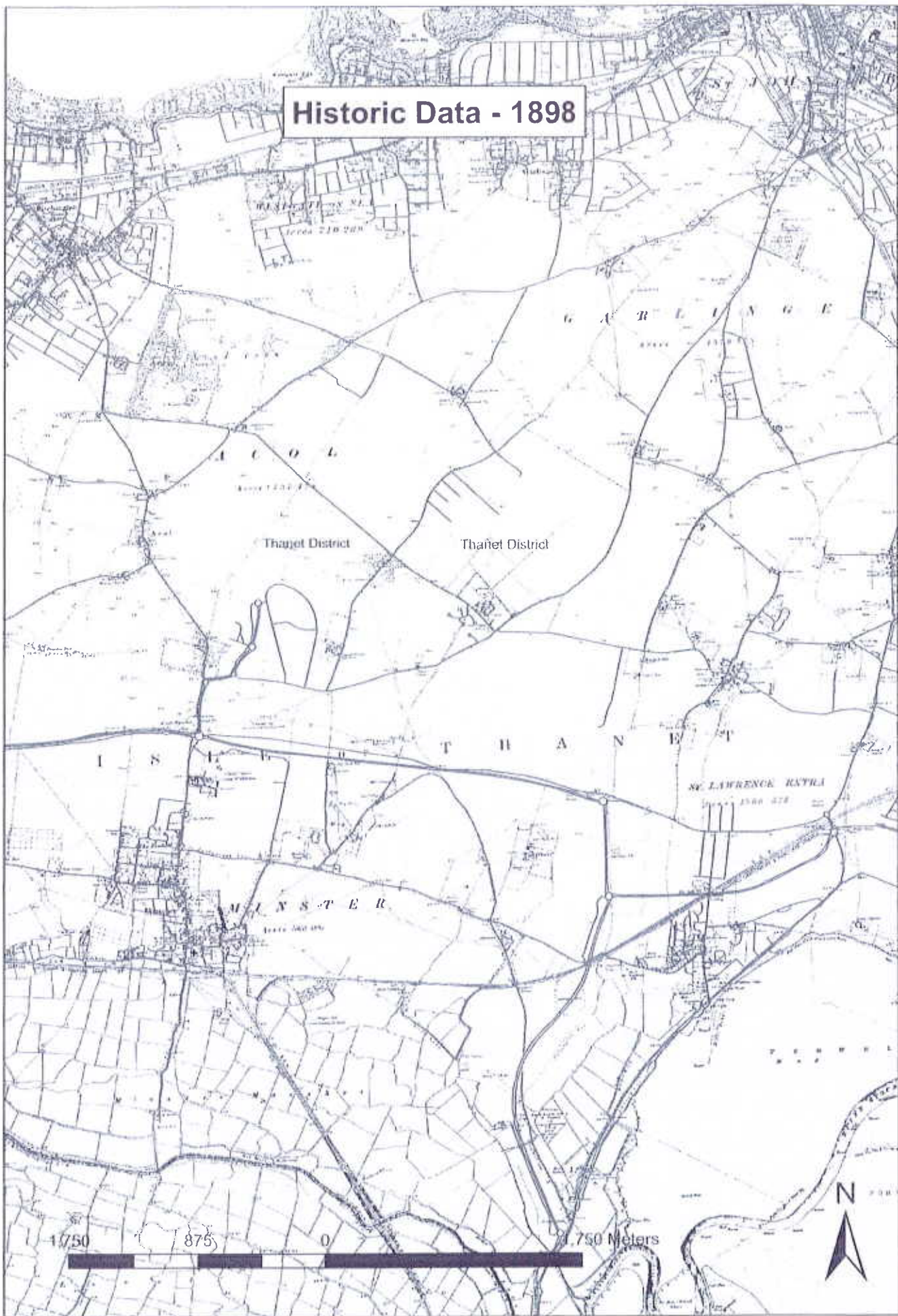
Bulk Fuel Storage 

Giskey 652
Id CL/00000652
Sitename Anthony Jenkins Fuel Oil Ltd
Ownername A N Jenkins - 01843596431
Sitedetails Fuel Oil Wholesalers
Actnotes
Classid C053
Source_Path_Receptor No
Significant_Harm No
Registered No
Special_Status No
Sprnotes

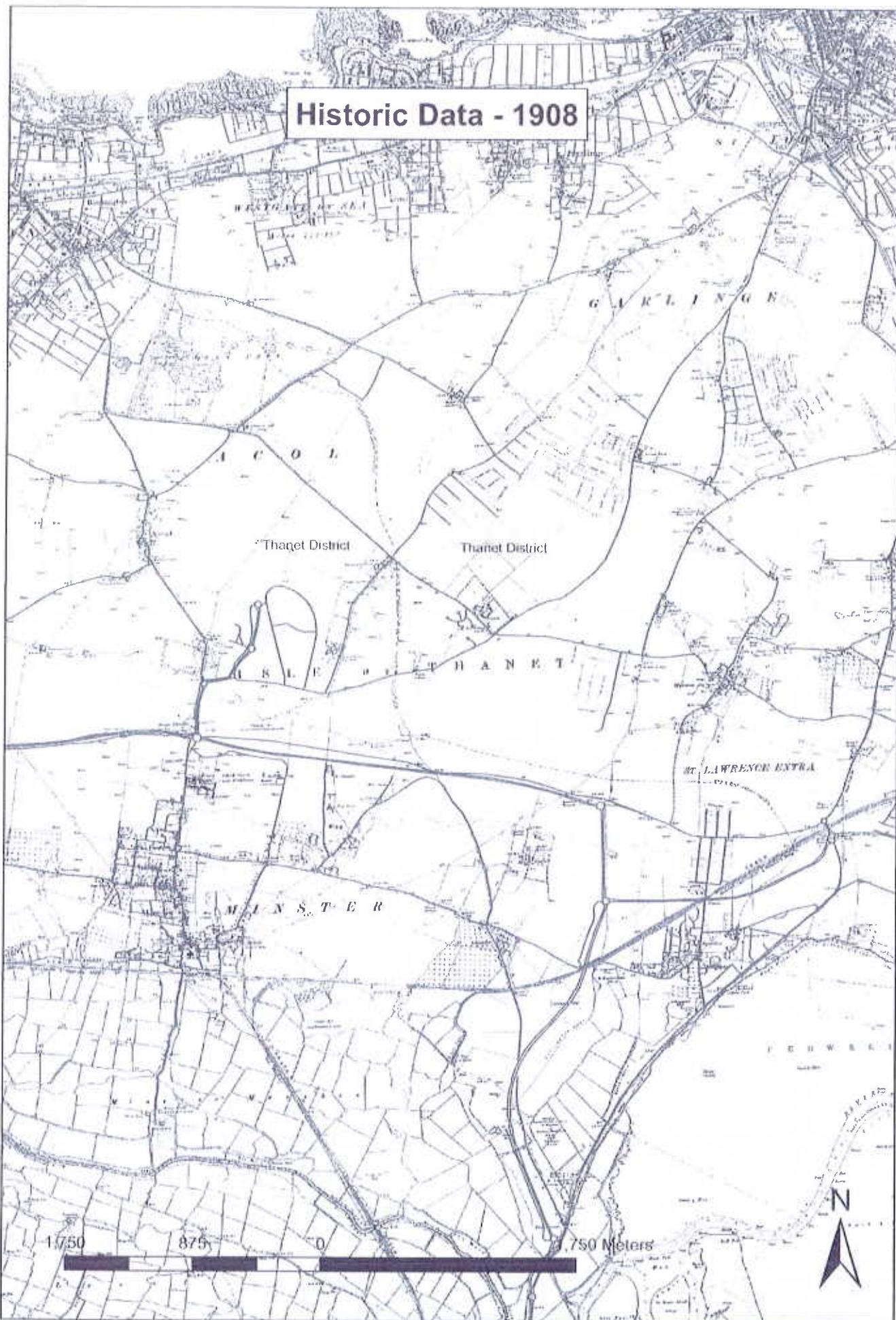
Historic Data - 1877



Historic Data - 1898



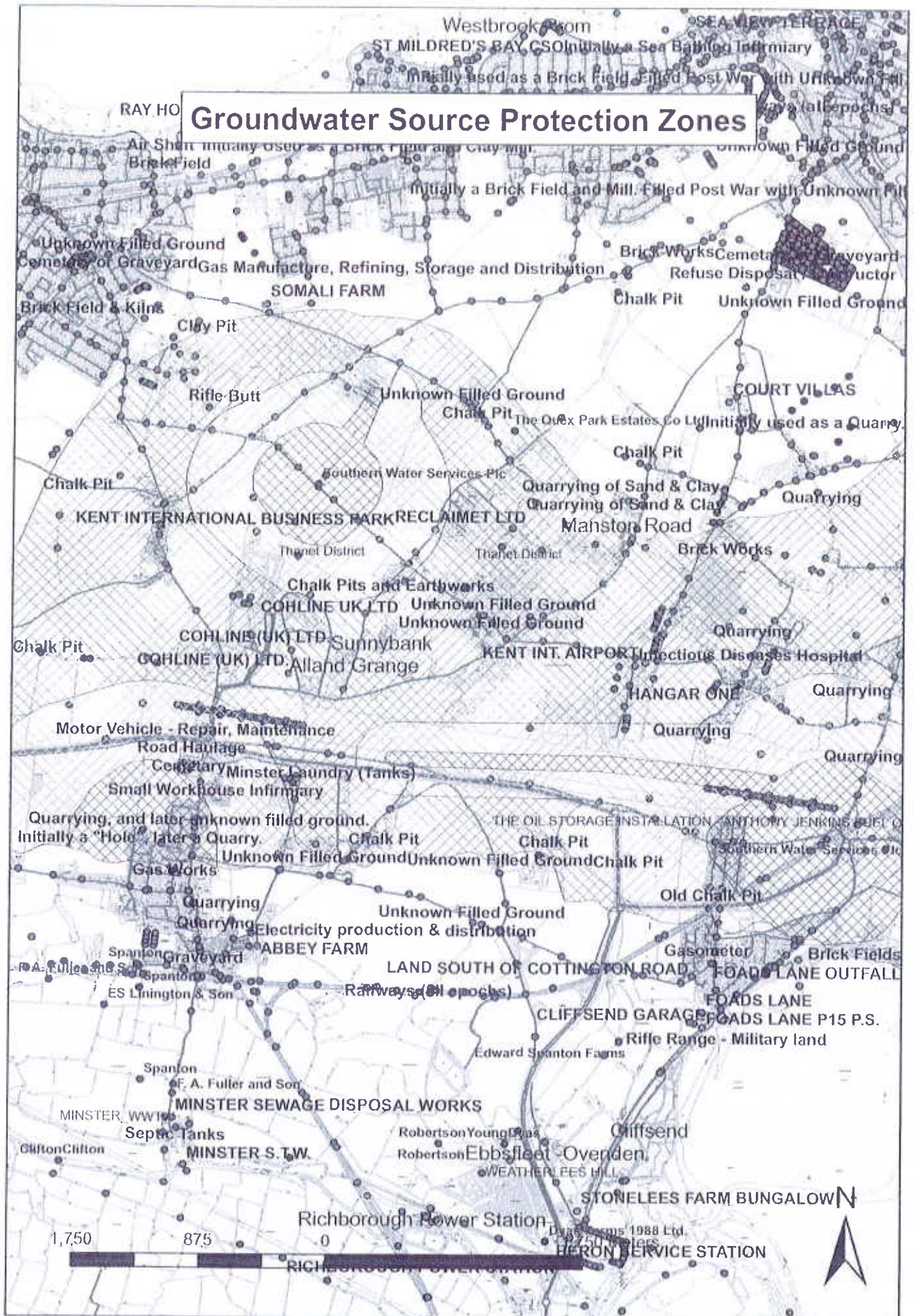
Historic Data - 1908



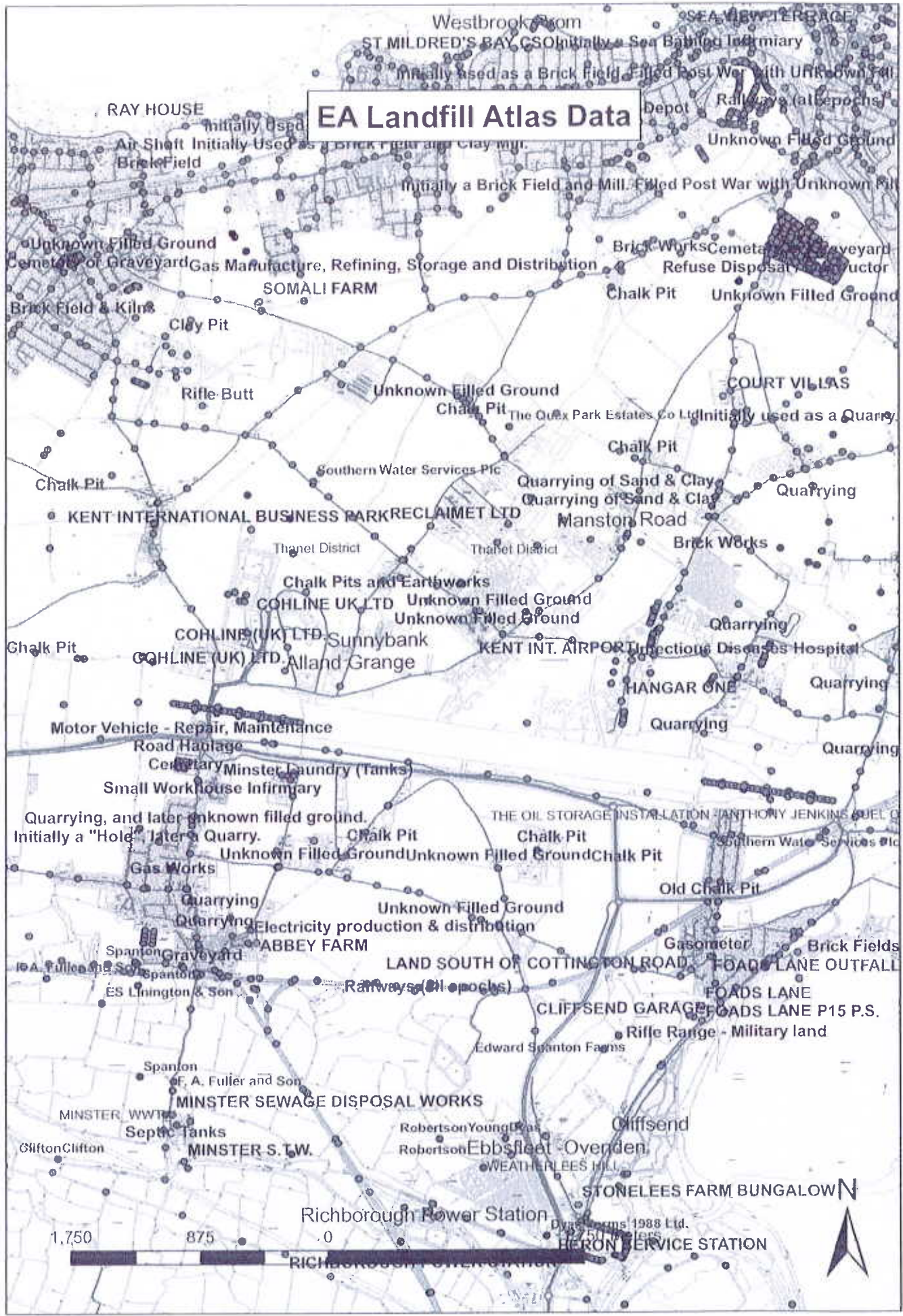
Historic Data - 1938



Groundwater Source Protection Zones



EA Landfill Atlas Data



RAY HOUSE

Westbrook Farm

SEA VIEW TERRACE

ST MILDRED'S BAY C.S.O. Initially a Sea Bathing Infirmary

Initially used as a Brick Field Filled Post War with Unknown Fill

Depot Railways (all epochs)

Initially Used as Brick Field

Initially a Brick Field and Mill Filled Post War with Unknown Fill

Unknown Filled Ground

Air Shaft Initially Used as Brick Field

Initially a Brick Field and Mill Filled Post War with Unknown Fill

Brick Works Cemetery Graveyard Refuse Disposal

Unknown Filled Ground Cemetery of Graveyard Gas Manufacture, Refining, Storage and Distribution

SOMALI FARM

Chalk Pit Unknown Filled Ground

Brick Field & Kilns Clay Pit

Rifle Butt

Unknown Filled Ground Chalk Pit The Quax Park Estates Co Ltd Initially used as a Quarry

COURT VILLAS

Chalk Pit

Southern Water Services Plc Quarrying of Sand & Clay

Chalk Pit

Quarrying

KENT INTERNATIONAL BUSINESS PARK RECLAIMET LTD

Manston Road

Brick Works

Chalk Pits and Earthworks

Unknown Filled Ground Unknown Filled Ground

Quarrying

Chalk Pit

COHLINE (UK) LTD Sunnybank

KENT INT. AIRPORT Infectious Diseases Hospital

COHLINE (UK) LTD Alland Grange

HANGAR ONE

Quarrying

Motor Vehicle - Repair, Maintenance

Quarrying

Road Haulage

Quarrying

Cemetery Minster Laundry (Tanks) Small Workhouse Infirmary

Quarrying, and later unknown filled ground. Initially a "Hold" later a Quarry.

THE OIL STORAGE INSTALLATION - ANTHONY JENKINS FUEL O

Gas Works Unknown Filled Ground Unknown Filled Ground Chalk Pit

Southern Water Services Plc

Quarrying

Unknown Filled Ground

Old Chalk Pit

Quarrying Electricity production & distribution

Gasometer

Brick Fields

Spanton Graveyard

LAND SOUTH OF COTTINGTON ROAD

FOADS LANE OUTFALL

ES Linington & Son

Railways (all epochs)

FOADS LANE

Spanton

Edward Spanton Farms

CLIFFSEND GARAGE FOADS LANE P15 P.S.

MINSTER SEWAGE DISPOSAL WORKS

Rifle Range - Military land

MINSTER WWT

Robertson Young & Co

Cliffsend

Clifton Clifton

MINSTER S.T.W.

Robertson Ebbsfleet Overden

STONELEES FARM BUNGALOW

Richborough Power Station

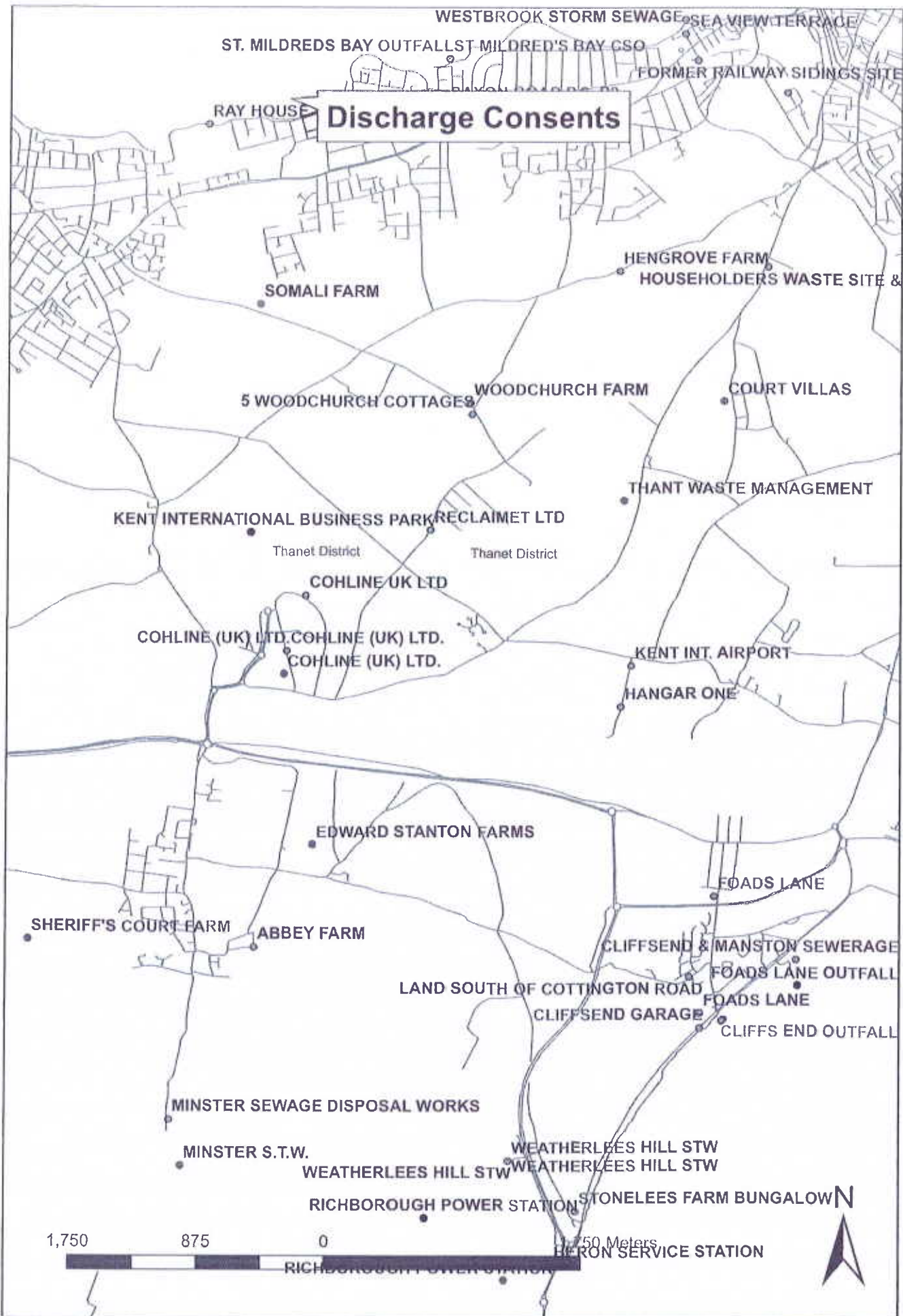
HERON SERVICE STATION

1,750 875 0

RICHBOROUGH POWER STATION



Discharge Consents



Abstractions Data

