



Coal Mining Risk Assessment

Project Name: Aspects Leisure Park, Bristol

Location: Unit 5, Aspects Leisure Park

Client: Glanville Group Ltd

Project ID: JN1865

Report Date: 7th February 2024

Report Issue: 1

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The findings and opinions conveyed via this investigation report are based on information obtained from a variety of sources as detailed within this report, and which Southern Testing Laboratories Ltd. believes are reliable. Nevertheless, Southern Testing Laboratories Ltd. cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

Author	Morgan Howcutt BSc FGS	
Check / Review	Dr Joe Kelly BSc PhD DIC	

For and on behalf of Southern Testing Laboratories Limited

DOCUMENT HISTORY AND STATUS

Issue No.	Date	Purpose or Status	Author	Check / Review
1	7/2/24	Coal Mining Risk Assessment	MH	JK/AM

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A INTRODUCTION

1 Authority

Our authority for carrying out this work was provided by Hylton George dated 02/02/2024.

2 Application

An application is to be made for the extension of the existing building to accommodate a lift in the north-east corner.

Southern Testing Laboratories Limited has been commissioned to prepare a coal mining risk assessment report for the proposed extension, in order to provide the council with information on coal mining and an assessment of its impact on land stability.

3 Location & Description

The site is a unit on Aspects Leisure Park just off the A4174 on the eastern outskirts of Bristol. The approximate National Grid Reference of the site is ST 65520 72500. The site location is indicated on Figure 1 within Appendix A.

4 Proposed Construction

It is proposed to extend the site with a small lift extension to the north-east corner of the building.

5 Scope

The purpose of this Coal Mining Risk Assessment Report is to:

- Present a desk-based review of all available information on the coal mining issues which are relevant to the site.
- Use that information to identify and assess the risks to the proposed development from coal mining legacy, including the cumulative impact of issues.
- Set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues have influenced the proposed development.
- Demonstrate to South Gloucestershire Council that the application site is, or can be made, safe and stable to meet the requirement of national planning policy with regard to development on unstable land.

This report presents our desk-based coal mining risk assessment findings and our interpretation of this data only. A wider desk study or any intrusive investigation was outside the requested scope of works.

B SOURCES OF INFORMATION USED TO INFORM IN THIS REPORT

- British Geological Survey Map 1:50,000 scale sheets No. 264 (Bristol)
 - Solid & Drift (2004).
- BGS Geological Map (1960, 1997 & 2003) 1:10,000 ST67SE.
- British Geological Survey online mapping.
- British Geological Survey Borehole Records Archive.
- Historic Ordnance Survey mapping of the area.
- A review of the Coal Authority's interactive viewer.
- Consultants Coal Mining Report (ref 5100340301001, Feb 2024).

6 Geology (1:50,000 Maps)

The British Geological Survey Map No 264 (Bristol) indicates that the site geology comprises Made Ground, consisting of artificial raised ground, over Downend Member sandstone(Upper Coal Measures) over the Pennine Middle Coal Measures (PMCM). Strata dips down to the south.

The Coking Coal appears to outcrop a very short distance to the south of the site with the New Smith's Coal seam shown to outcrop a short distance to the north of the site, marking the contact between the two sandstone Downend Member and PMCM. .

6.1 Made Ground

"Fill" and "made / artificial ground" are terms which are used interchangeably to describe material which has been placed by man. It may have been placed in a controlled or uncontrolled manner and, if the latter term applies, then very great variations in material type, depth and density are likely to occur.

6.2 Downend Member

Sandstone with some conglomerate and pebbly sandstone and sporadic fissile mudstone beds. Some workable coal seams are also present. Sandstone is typically a coarse-grained lithic arenite of 'Pennant' type. The sandstones were formed in channels and floodplains within a broad alluvial tract.

7 Detailed Geological Mapping & Interpretation

A review of the 1:10,000 geological map, (ST67SE), indicates that there are no geological faults present on site.

There are no outcropping coal seams indicated on site, but the Coking Coal outcrop is mapped as being very close to site and is likely be varying along this outcrop.

The New Smith's Coal seam (NSMC) is shown to outcrop 200m to the north and lies stratigraphically below the site.

The Generalised Vertical Section (GVS) infers the following sequence below the site.

Strata	Approx Thickness (m)	Approx. Depth below Site (m)
Made Ground	Unknown	--
Downend Formation (Sandstone)	250m+	Unknown
New Smith's Coal	0.6-0.9m	c210m+
Pennine Middle Coal Measures	Unknown	251m+

8 Historical Borehole Records

A search of historic exploratory hole records, from the online British Geological Survey database, revealed very few boreholes in the vicinity and with the correct fault block and geology. The nearest is summarised below.

BH Reference	Final Depth (mbgl)	Distance from site (m) & Direction	Remarks
ST67SE9	225m	100m NW	Barrs Court Pit (Oldland) - found 0.7m of coal at 225mbgl (740 feet).

This borehole provides very little information but does infer that the New Smiths Coal seam was encountered at 225m bgl and was 0.7m thick. This information was obtained from an abandoned shaft note, recorded on the 1962 6 inch map. Based on the positioning of this shaft record, relative to the site position, this appears to support the anticipated depth of the New Smiths Coal based on the geological mapping.

9 Historical Maps

The first OS mapping, dated 1886/87, showed the site to fall within part of a large field enclosure, in a rural area. A track/road was present approximately 25m to the north. To the north-west of site, around 150m away, was a disused Colliery, with another area of worked ground shown around 300m to the north-west. Kingsfield Farm was present around 300m to the south-west, and sporadic housing was present around 300m to the north in the Mount Hill area.

On the 1916 map, the old colliery is no longer annotated as such, although an old limekiln is mapped adjacent this working. The worked land to the north-west was annotated as an old quarry.

By 1948 the site was shown to be part of larger orchard / market garden. This was no longer shown on the 1977 maps, and by the 1965-1969 map the land to the north of the orchard was mapped as Holly Guest Fruit Farm. The worked ground associated with the disused colliery was no longer mapped by the late 1980's.

By 1992 the developments to the north and west had expanded much closer to site, and the new ring road is now present to the south and east (A4174), together with superstores and hypermarkets having been built to the south, although not in proximity. A pond is mapped to the north-west of site across the path. The site remains undeveloped.

The 1999 OS map shows site and the immediate surrounding area as fields still. The pond to the north-west across from the path has an 'issue' annotated, whilst a 'sink' is annotated near the site. The 1999 aerial photograph, shows the site, as today, adjacent a unit on a retail park and the wholesale construction program may have given rise to the artificial ground unit mapped. On the small-scale 2023 map, the large building to the south is annotated as Longwell Green leisure centre.

10 The Coal Authority's Interactive Map Viewer

The Coal Authorities interactive viewer shows the following.

Coal Authority Category	Yes/No
Mine Entry close to site	No
Development High Risk Area	Yes
Surface Mining (past and current)	No
Past shallow coal mine workings	No
Probable shallow coal mine workings	Yes
Coal Outcrop on site	No
Coal Outcrop close to site	Yes Coking Coal seam a short distance to the south, dipping away from site. The New Smith's Coal seam outcrops to the north of site and is stratigraphically below site.
Coal Mining Reporting Area	Yes

11 Consultants Coal Mining Report

The full report (ref 51003403020001), is included within Appendix B, with a summary presented below.

Mining Activity & Geology	
Past underground mining record	Yes: see section 11.1 below.
Probable unrecorded shallow workings	Yes.
Spine Roadways at shallow depth	None.

Mining Activity & Geology	
Mine Entry	None recorded within 100m of site.
Abandoned mine plan catalogue numbers	n/a - mines too deep to be of concern.
Outcrops	No outcrops recorded on site – see section 11.2 below .
Geological faults, fissures and breaklines	None recorded.
Opencast mines (within 500m)	None.
Coal Authority Managed Tips within 500m	None recorded within 500m.
Investigation or Remedial Activity	
Site investigation	Within (not available).
Remediated sites	None recorded within 50m.
Coal mining subsidence	No damage notice of claim for the site or any property within 50m of the site since 1994. No current stop notices delaying remedial works or repairs to property.
Mine gas	None recorded within 500m.
Mine water treatment schemes	None recorded within 500m.
Licencing & Future Mining Activity	
Future underground mining	None recorded.
Coal mining licencing	None recorded within 200m.
Court orders	None recorded.
Section 46 notices	No notices have been given, stating that the land is at risk of subsidence.
Withdrawal of support notice's.	The property is not in an area where a notice to withdraw support has been given. The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.
Payments to owners of former copyhold land	The property is not in an area where a relevant notice has been published.

11.1 Recorded Underground Coal Mining

The Coal Authority Report, has 5 records of workings at depths between 353 and 401m bgl. The records are included below.

Seam	Depth (m)	Direction to working	Extraction thickness (cm)	Year last mined
Six foot Bottom Leaf	353	North	51	1899
Two foot nine	359	North	60	1870
Four Feet	361	North	100	1873
Red	392	North	60	1900
Bute Top Leaf	401	North	50	1873

These recorded seams are not considered a risk to the site, due to the depth of the workings and thickness of seams removed.

11.2 Coal Outcrops

Outcrops	Map
<p>Inferred outcrop of the two seams – both dip to the south.</p> <p>New Smith's Coal →</p> <p>Coking Coal →</p>	

C IDENTIFICATION & ASSESSMENT OF SITE SPECIFIC COAL MINING

The table below summarises the potential risks associated with coal mining legacy for the proposed development on site, identified from the various sources listed above.

12 Risk Assessment

Coal Mining Issues	Potential Risk	Risk Assessment
Underground coal mining (recorded at shallow depths)	No	The shallowest recorded worked seam is the Six Ft Bottom Leaf seam at a depth of 353m. Due to the depth of the seam, this is not considered to be a significant risk to the site.
Underground coal mining (probable at shallow depths)	Possible	The Coking Coal seam is mapped as outcropping just to the south of site at surface and therefore may have been worked at a shallow depth. This seam, however, is stratigraphically above site and consequently does not pose a risk below the site. The New Smith's Coal Seam is stratigraphically below site, although is anticipated to be some 250m+ below site. This, therefore, is not considered a significant risk given the depth.
Mine entries (shafts and adits)	No	None recorded within 100m of the site. Barr's Pit 120m NW.
Coal mining geology (fissures)	No	Not recorded on Coal Authority data.

Coal Mining Issues	Potential Risk	Risk Assessment
Record of past mine gas emissions or potential	No	Not recorded on Coal Authority data. Given the size of the proposed extension, gas protection measures should mirror those already present within the existing structure.
Recorded coal mining surface hazard	No	Not recorded on Coal Authority data.
Surface mining (opencast workings)	No	None recorded on Coal Authority data within 500m.

D MITIGATION STRATEGY

13 Discussion & Recommendations

Coal Authority datasets infer the site is in a Development High Risk Area due to probable unrecorded shallow workings. The closest seam being the Coking Coal which outcrops a short distance to the south of site. The Coking coal is stratigraphically below our site, and not considered a significant risk, albeit, may have been mined or quarried close to site. The New Smiths Seam which outcrops to the north and dips below the site, is anticipated to lie around 250m below the site, based on the BGS mapping and archive borehole information. As such, due to the depths involved and underlying sandstone bedrock, had this been worked, it would not be considered a significant risk to site.

The shallowest recorded underground mining is related to the Six FT Bottom Leaf some 353m below the site with an extraction thickness of 0.5m. Due to the depth, this is not considered a significant risk to the site. Other seams have been worked at greater depths but, for the same reasons, are not considered a risk to the site.

On the basis of the published records, and information obtained from the Coal Authority, the risk from historic coal mining is considered to be low.

In the light of the desk study information, and minor extension proposed, the construction is considered to be low risk in respect of the coal legacy.

Coal Mining Issues	Potential Risk	Investigation Work
Underground coal mining (recorded at shallow depths)	No	N/A
Underground coal mining (probable at shallow depths)	No	There are no records or evidence that the shallow coal seams have been worked historically. This coupled with the seam lying stratigraphically above site indicates a very low risk. The New Smith's Coal seam does dip below site, but the closest borehole record, the Barr's Court Pit 100m to the north-west of site, confirms to coal at c250m bgl. Given the seam thickness, depth of the seam and overlying sandstone bedrock, it does not pose a significant risk to site.
Mine entries (shafts and adits)	No	N/A
Coal mining geology (fissures)	No	N/A
Record of past mine gas emissions or potential	No	N/A

Coal Mining Issues	Potential Risk	Investigation Work
Recorded coal mining surface hazard	No	N/A
Surface mining (opencast workings)	No	N/A

E CONCLUSIONS

There are no records of any shallow coal seams below the site, which may have been worked historically. There is, however, evidence that the New Smiths Coal seam has been worked in the BGS archive borehole relating to the Barr's Court Pit (mapped as a colliery). This record shows the coal to have been encountered at 250m bgl. Based on the depth of this coal seam, the risk from this is considered negligible.

The Coking coal is mapped stratigraphically above site and therefore does not dip below site. This concurs with the consultant's coal mining report which records no outcrops on site or within the 50m buffer placed on the down-dip side.

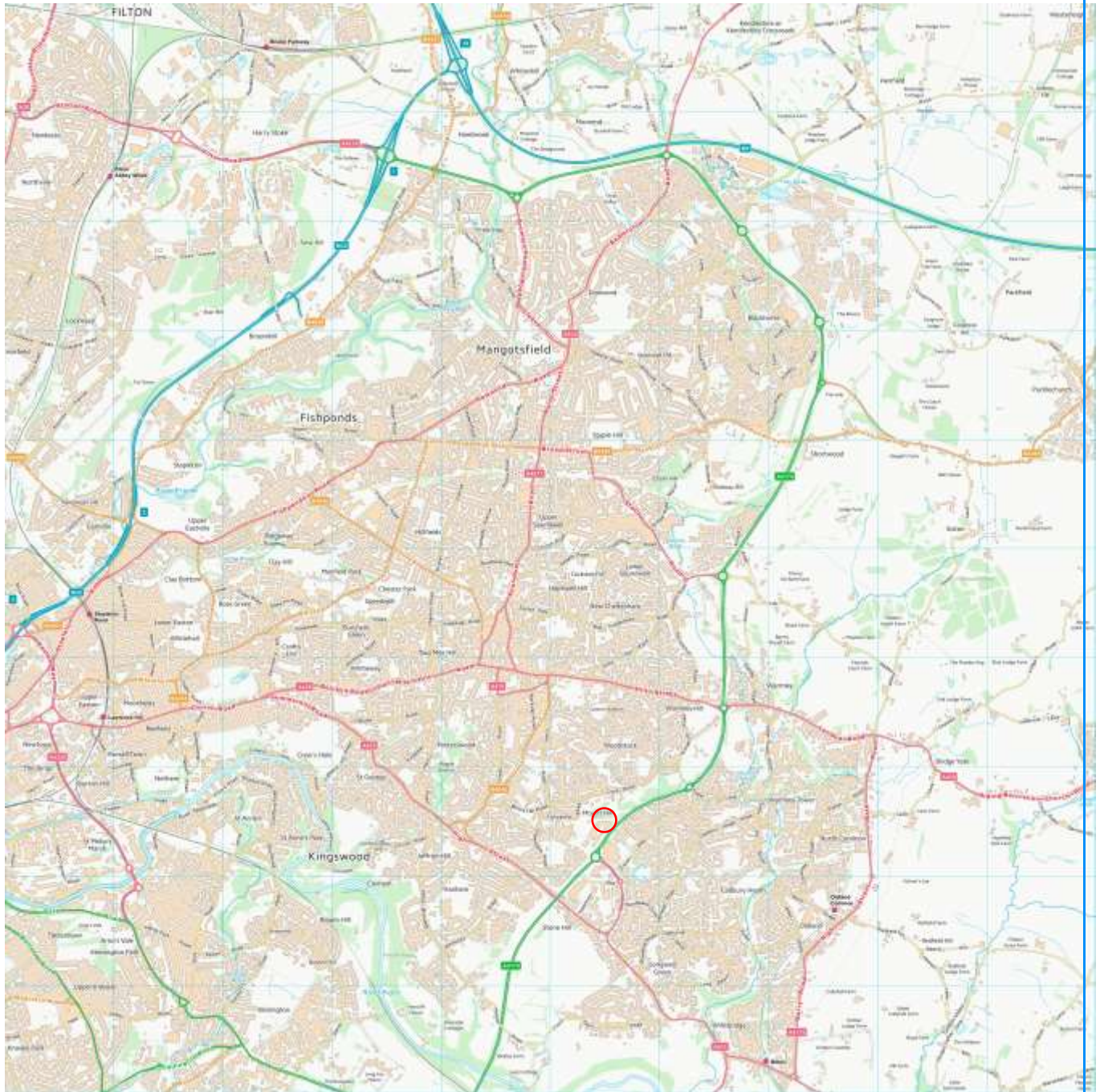
Based upon the finding of this desk based risk assessment, an intrusive investigation is not considered necessary in respect of coal legacy for the minor work proposed. The artificial / made ground mapped on site is a probable consequence of the early 90's construction of the retail park.



APPENDIX A

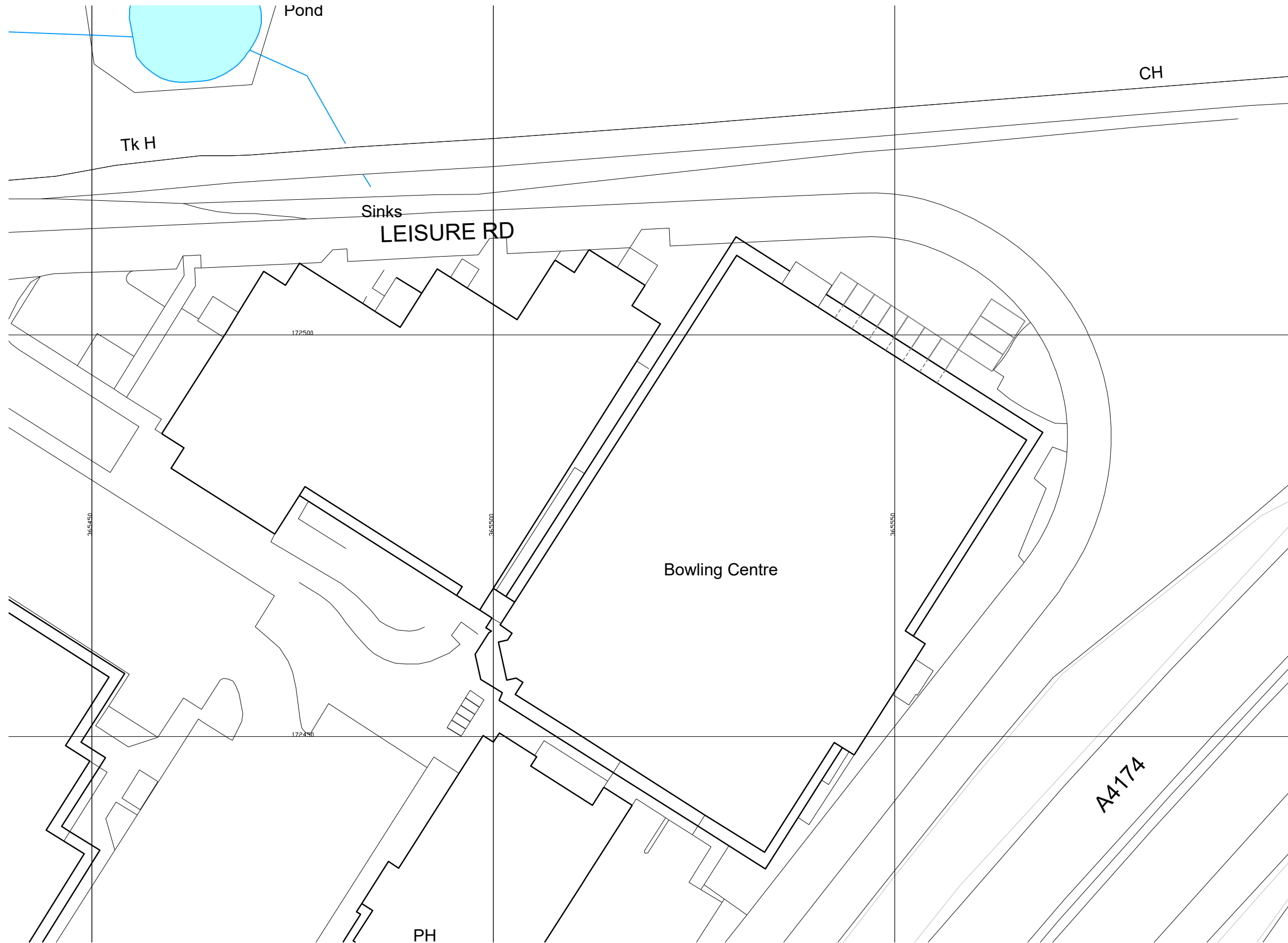
Site Plans





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Site:	Aspects Leisure Park, Bristol	Project ID	JN1865
Figure 1	Site Location Plan	Date:	05/02/2024



REV	DESCRIPTION	DR / CH	DATE
This drawing has been reviewed and signed off by McDonald's Restaurants Ltd any errors, changes or discrepancies should be reported to the McDonald's project manager and designers prior to commencing work on site.			
NAME (PM): CHRIS FLANAGAN		DATE: AUGUST 2023	

SIGNATURE:

GENERAL NOTES:
All works are to be undertaken in accordance with the Building Regulations and the latest British Standards. All proprietary materials and products are to be used strictly in accordance with the manufacturers recommendations. All dimensions to be checked on site prior to construction.

ON BEHALF OF:

<p>MC DONALDS RESTAURANTS LTD </p> <p>STORE ADDRESS Unit 5, Aspects Leisure Park</p>		<p>STORE No 2373</p>
--	--	--------------------------

Bristol, BS15 9LA
DRAWING TITLE
BLOCK PLAN

Scale @ A3	1:500
Created on:	AUGUST 2023
Drawn by :	SBD
Checked by:	GF
Purpose of Issue:	FOR INFORMATION

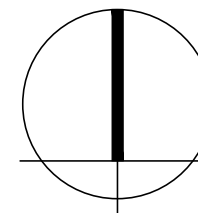
1

PLAN

BLOCK PLAN

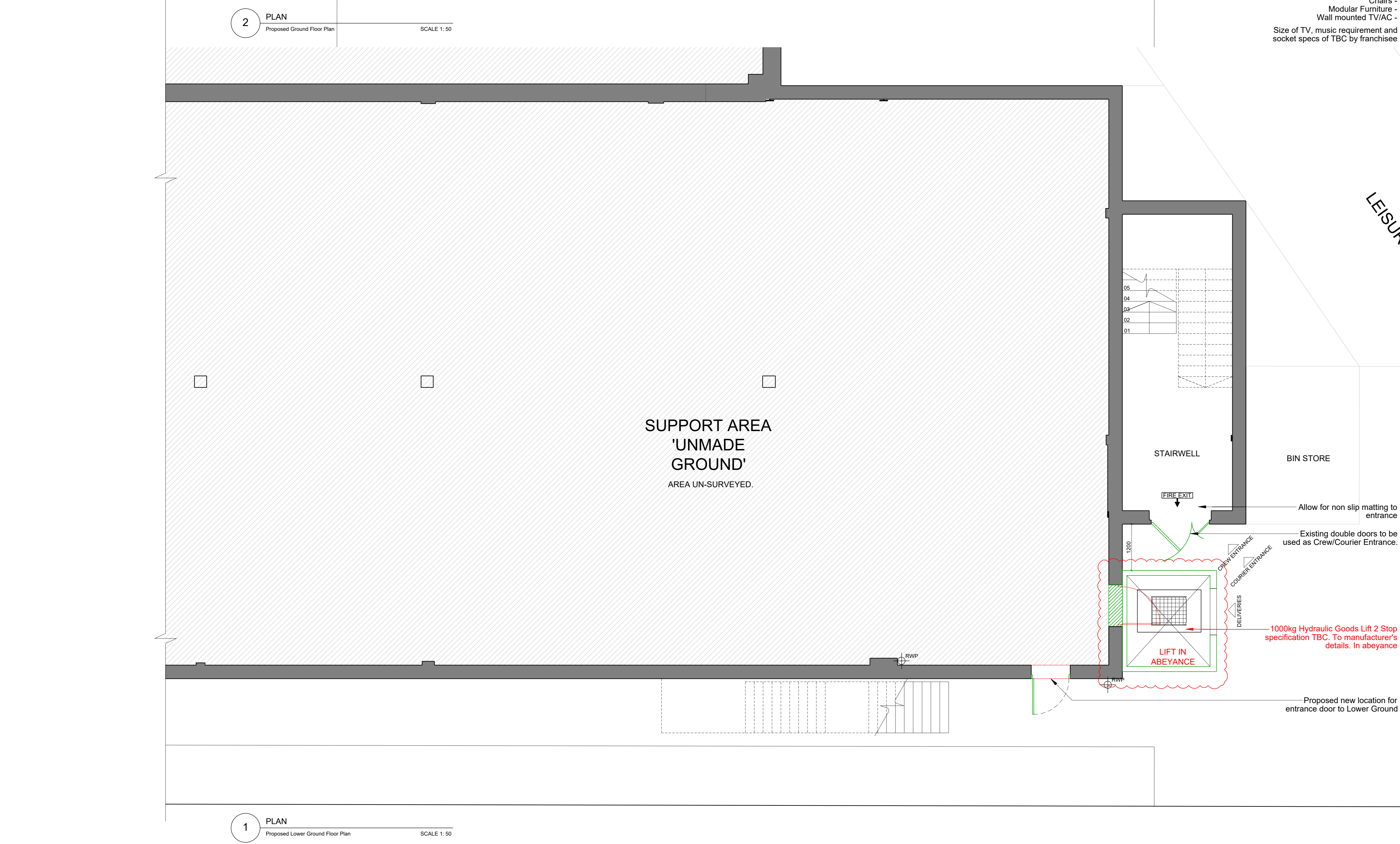
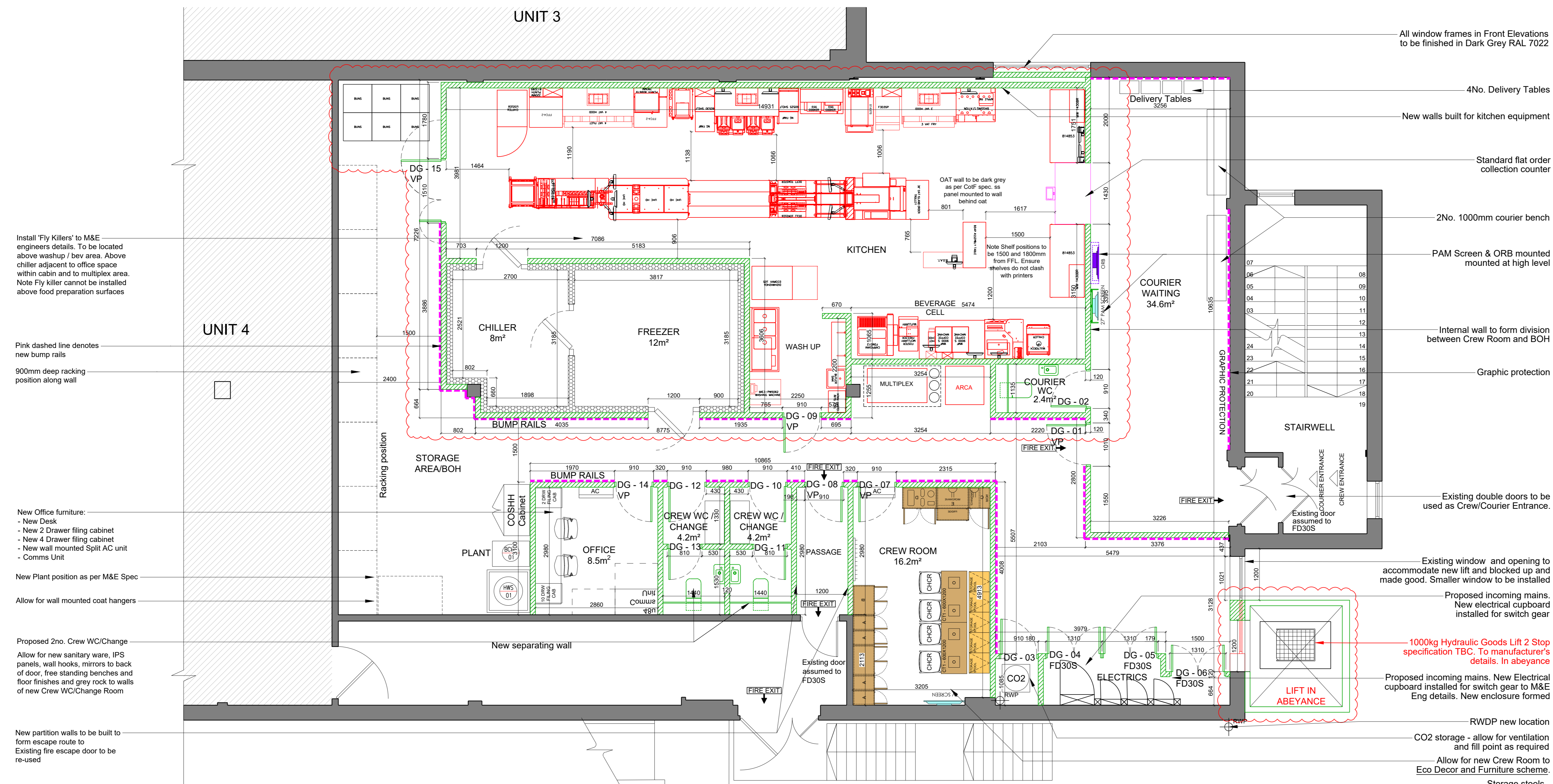
SCALE 1: 500

SCALE 1:500



McDONALDS DELIVERY KITCHEN KEY	
	INTERNAL STEELWORK WALL OUTSIDE OF CABIN 150MM WIDE, LENGTH TO FIT
	ORDER READY BOARD
	27" DIGITAL PUBLIC AWARENESS MONITOR SCREEN (PAM SCREEN)
	CO2 STORAGE TANK AND PROTECTIVE CASE
	ARCA (Bla Cam)
	MULTIPLY (DINER MARK)
	ACCESS LADDER
	NEW ENCLOSURE TO UNDERGIRD OF CABIN
	BUMP RAILS TO WALLS
	BREAK TANK AND PUMPS
	HOT WATER TANK AND PUMP
	OFFICE CHAIR
	COURIER BENCH
	COSH CABINETS

BESK ECO CREW ROOM FURNITURE		2023 V1
	STAFF CHAIR UPHOLSTERED SEAT PAD, CHESTNUT CARNO VITA POLYPROPYLENE SWIVEL ON LEGS SUPPLIED BY DISPLAY WORLD	
	HOSE BOX CHROME FRAME WITH WHITE POLYPROPYLENE SEAT SUPPLIED BY DISPLAY WORLD	
	STAFF LOUNGE CHAIR UPHOLSTERED IN CHESTNUT CARNO VITA SKA-LEGS SUPPLIED BY DISPLAY WORLD	
	STAFF SOFA UPHOLSTERED IN CHESTNUT CARNO VITA SKA-LEGS SUPPLIED BY DISPLAY WORLD	
	STORAGE STOOL UPHOLSTERED IN CHESTNUT CARNO VITA SUPPLIED BY DISPLAY WORLD	
	TABLE 1200 x 800mm FORMER CHESTNUT CARNO VITA TABLE TOP FINISHED IN MILLENNIUM OAK SUPPLIED BY DISPLAY WORLD	
	COFFEE TABLE 800mm FORMER CHESTNUT CARNO VITA TABLE TOP FINISHED IN FORMICA LAMINATE MILLENNIUM OAK SUPPLIED BY DISPLAY WORLD	
	SIMPLE BENCH TOP OF STOOL UPHOLSTERED SEAT PAD - CHESTNUT CARNO VITA FINISHED IN FORMICA LAMINATE MILLENNIUM OAK SUPPLIED BY DISPLAY WORLD - TO BE ISSUED OFF BY ME	
	STORAGE STOOL TOP OF STOOL UPHOLSTERED SEAT PAD - CHESTNUT CARNO VITA STOOL BASE FORMICA LAMINATE MILLENNIUM OAK SUPPLIED BY DISPLAY WORLD	
	MILLENNIUM LOCKERS BANKS OF 5 LOCKERS OR 7 WALL LOCKERS WITH SPEC. LOCKS DOOR FINISH IN FORMICA COMPACT - RANDOM PATTERN TO MATCH WOOD. FORMICA - 1.181 1200X2000 2. WHITE LAMINATE DOOR FINISH MANUFACTURED TO MATCH ROOM SCHEME SPECIFIC FINISHES TO MATCH CREW DRESSING SPEC.	
	KITCHEN SINK & CUPBOARD FINISHED IN NEVADA OAK (F888)	



Install 'Fly Killers' to M&E engineers details. To be located above washup / bev area. Above chiller adjacent to office space within cabin and to multiplex area. Note Fly killer cannot be installed above food preparation surfaces

Pink dashed line denotes new sump rails

900mm deep racking position along wall

New Office furniture:
- New Desk
- New 2 Drawer filing cabinet
- New 4 Drawer filing cabinet
- New wall mounted Split AC unit
- Corona Unit

New Plant position as per M&E Spec

Allow for wall mounted coat hangers

Proposed 2no. Crew WC/Change
Allow for new sanitary ware, IPS panels, wall hooks, mirrors to back of door, free standing benches and floor finishes and grey rock to walls of new Crew WC/Change Room

New partition walls to be built to form escape route to Existing fire escape door to be re-used

All window frames in Front Elevations to be finished in Dark Grey RAL 7022

4No. Delivery Tables

New walls built for kitchen equipment

Standard flat order collection counter

2No. 1000mm courier bench

PAM Screen & ORB mounted at high level

Internal wall to form division between Crew Room and BOH

Graphic protection

Existing double doors to be used as Crew/Courier Entrance.

Existing window and opening to accommodate new lift and blocked up and made good. Smaller window to be installed

Proposed incoming mains. New electrical cupboard installed for switch gear

1000kg Hydraulic Goods Lift 2 Stop specification TBC. To manufacturer's details. In abeyance

Proposed incoming mains. New Electrical cupboard installed for switch gear to M&E Eng details. New enclosure formed

RWDP new location

CO2 storage - allow for ventilation and fill point as required

Allow for new Crew Room to Eco Decor and Furniture scheme

Storage stools -
Tables -
Chairs -
Modular Furniture -
Wall mounted TV/AC -
Size of TV, music requirement and socket specs of TBC by franchisee

Allow for non slip matting to entrance

Existing double doors to be used as Crew/Courier Entrance.

1000kg Hydraulic Goods Lift 2 Stop specification TBC. To manufacturer's details. In abeyance

Proposed new location for entrance door to Lower Ground

SCHEDULE OF AREAS	
EXISTING SITE AREA	N/A/m
EXISTING BUILDING (SEA - m²)	300.1m²
EXISTING BUILDING (GIA - m²)	279.2m²

DRAWINGS BASED ON:
SURVEY - 02.08.2023
M&E -
OTHER - Tuffin Faraday Taylor LLP B1223685-500 (Draft)

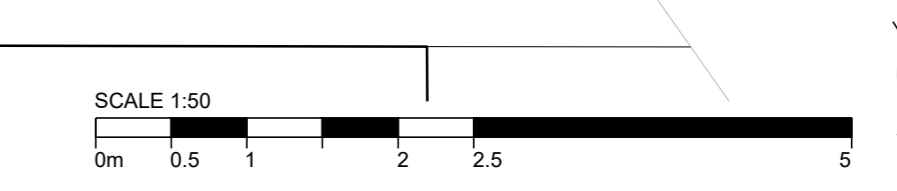
DESIGN WORKING GROUP APPROVED

Design Working Group Approved with comments 10.08.2023
DWG Approved Stamp applied
- Bench relocated to fit new area
- Two screens above counter removed
- replaced with Bin Bunting
- New door added to Freezer from passage way. Freezer made bigger
- Kitchen layout reorganised to suit
- G&A clean associated, dimensions and door height revised
Kitchen layout revised following DWG 14.09.23 comments. More space created around DAT and prep.

REV DESCRIPTION DR / CH DATE
This drawing has been prepared and approved by McDonald's Restaurants Ltd and Open Architecture. All dimensions and products are to be used strictly in accordance with the specifications and standards. All elements to be checked on site prior to ORB/S&L OF.

McDONALDS RESTAURANTS LTD
STORE ADDRESS
Unit 5, Aspects Leisure Park
Bristol, BS15 9LA
DRAWING TITLE
GENERAL ARRANGEMENT PLANS
Proposed Ground & Lower Ground Floors
Scale @ A0
Created on: AUGUST 2023
Drawn by: SGO
Checked by: GF
Purpose of Issue: FOR INFORMATION

OPEN architecture
Arden House
South Park
Barnsley, S70 1EB
Job Reference: 19509
Store Number: 2373
Drawing No: 50
Rev: B





APPENDIX B

Consultants Coal Mining Report

B



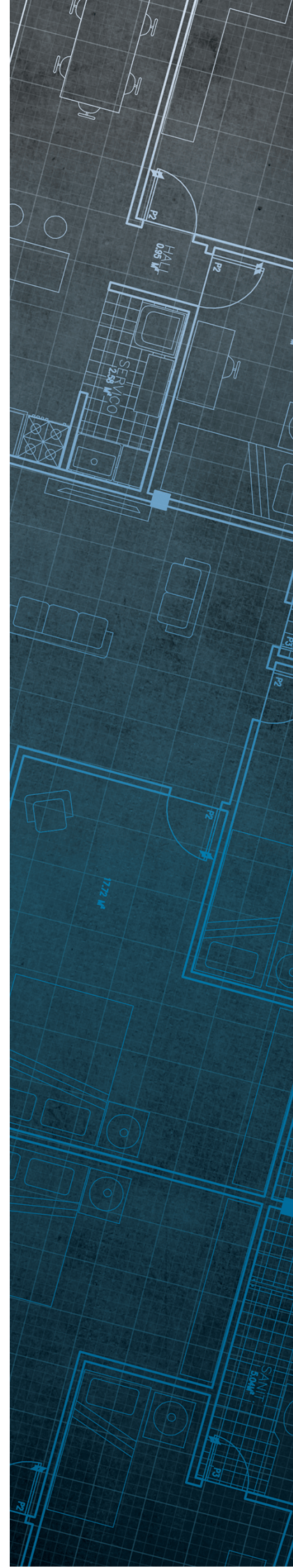
The Coal
Authority

Consultants Coal Mining Report

Unit 5
Kingswood
ASPECTS LEISURE PARK
Bristol
Bristol
BS15 9LA

Date of enquiry: 2 February 2024
Date enquiry received: 2 February 2024
Issue date: 2 February 2024

Our reference: 51003403020001
Your reference: 333829943_2



Consultants Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

NLIS Hub

Enquiry address

Unit 5
Kingswood
ASPECTS LEISURE PARK
Bristol
Bristol
BS15 9LA

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Ordnance Survey Licence number: 100020315

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	SIX FT BOTTOM LEAF	Coal	3BT8	353	North	12.1	South-West	51	1899
unnamed	TWO FOOT NINE	Coal	3APE	359	North	15.2	South	60	1870
unnamed	FOUR FEET	Coal	3VDX	361	North	23.7	South	100	1873
unnamed	RED	Coal	3BA9	392	North	18.6	South	60	1900
unnamed	BUTE TOP LEAF	Coal	3B8A	401	North	21.6	South	50	1873

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

17639	SWR3425	POO
-------	---------	-----

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

Distance to site investigation (m)	Direction
Within	N/A

See Section 4 for further information.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices



Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

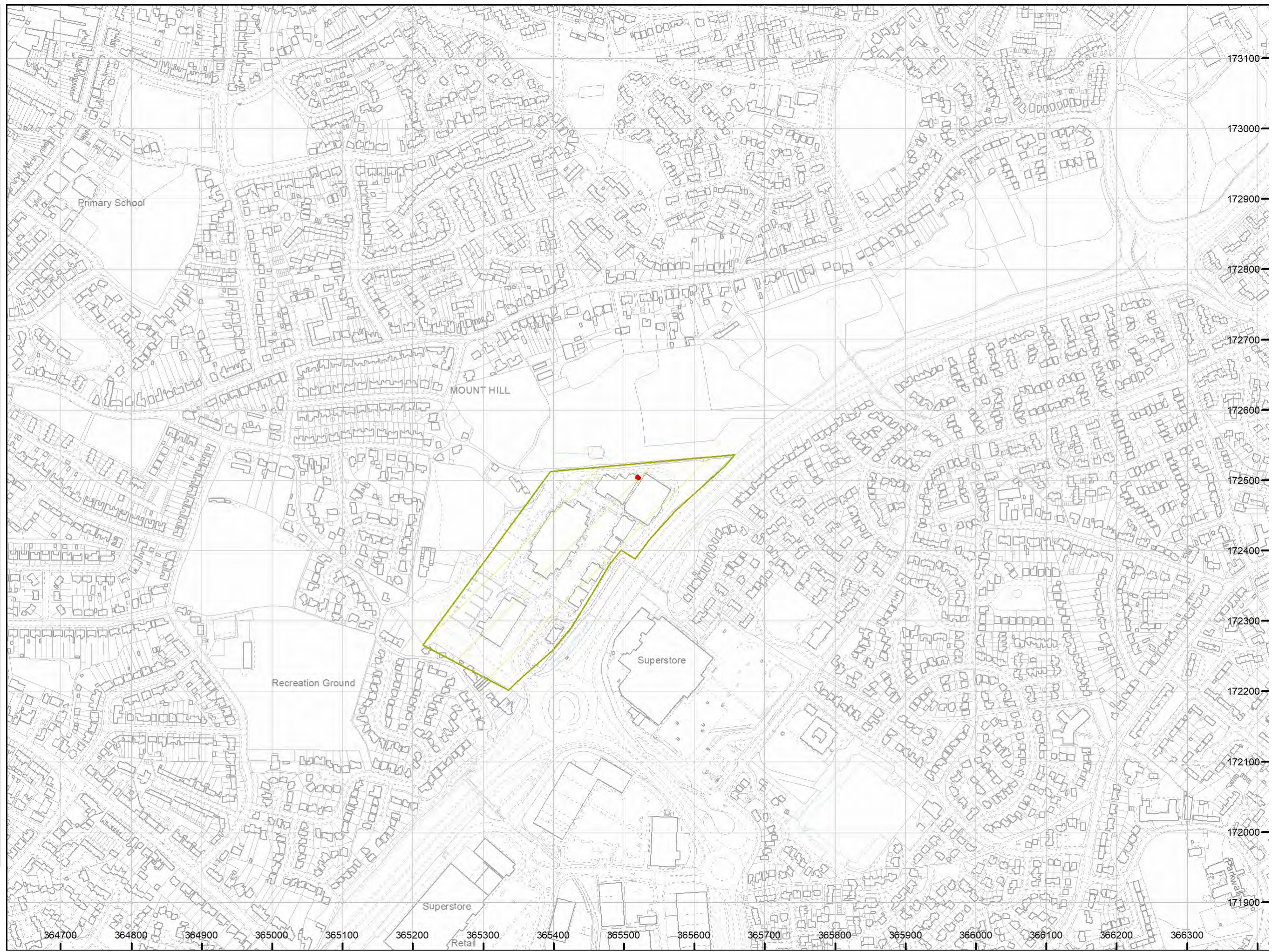
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

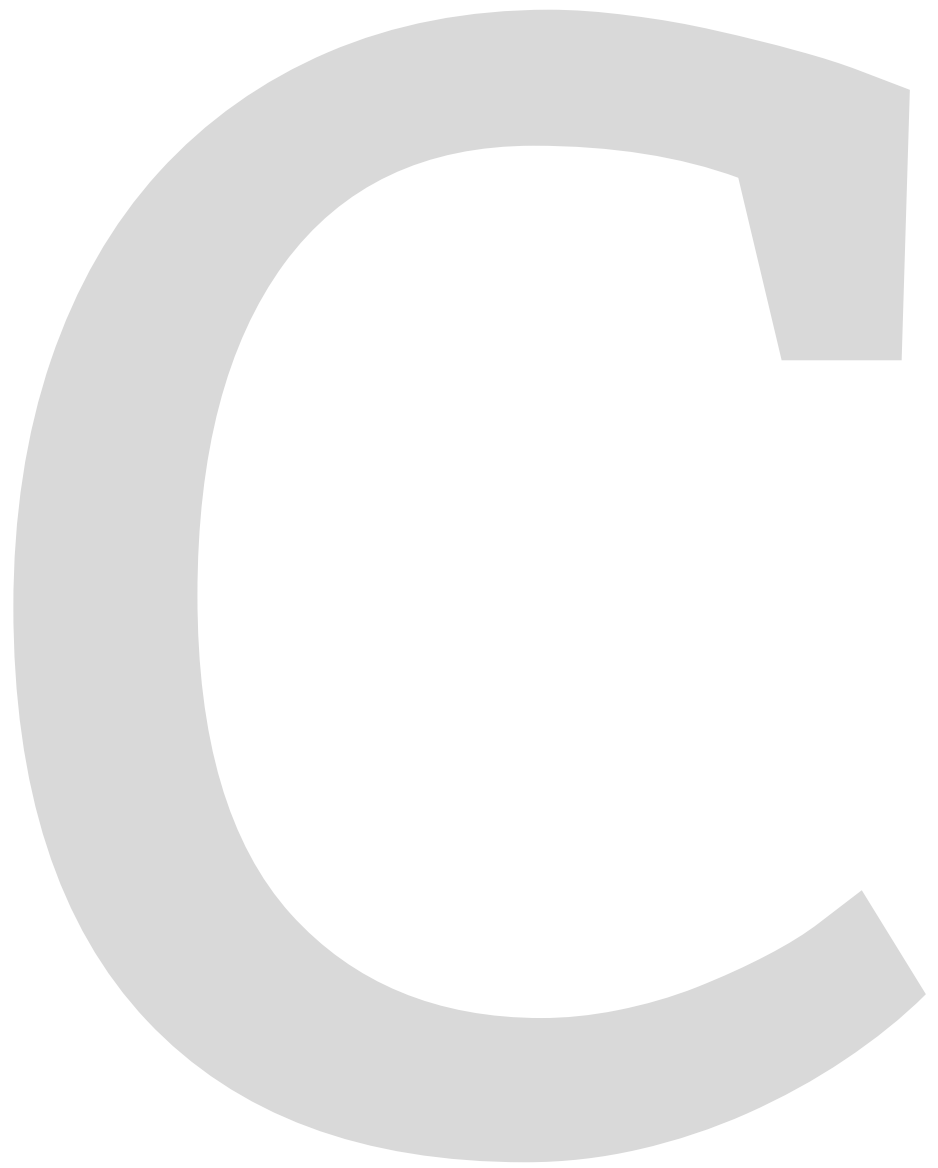
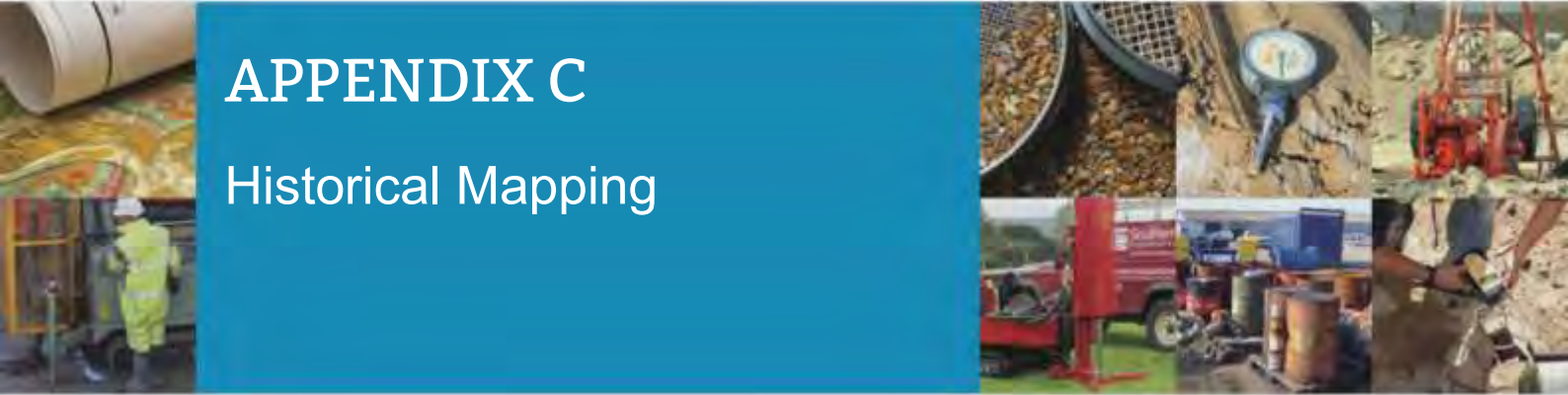
- Approximate position of the enquiry boundary shown 
- Site investigations 

How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com



APPENDIX C

Historical Mapping



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

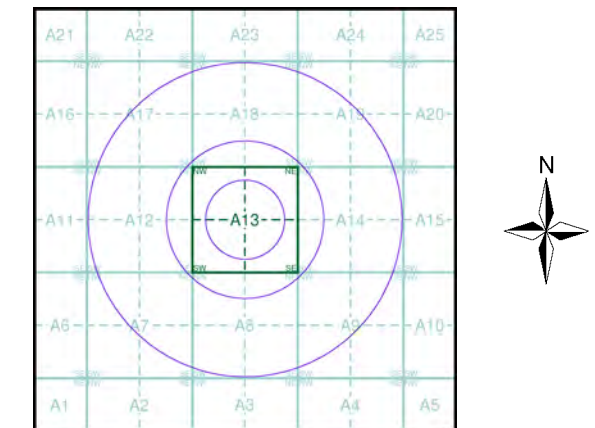
1:10,000 Raster Mapping

	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
Somerset	1:10,560	1884	3
Gloucestershire	1:10,560	1886 - 1887	4
Gloucestershire	1:10,560	1904	5
Somerset	1:10,560	1905	6
Gloucestershire	1:10,560	1920 - 1921	7
Somerset	1:10,560	1932	8
Somerset	1:10,560	1938	9
Gloucestershire	1:10,560	1938	10
Somerset	1:10,560	1938	11
Gloucestershire	1:10,560	1938	12
Ordnance Survey Plan	1:10,000	1955	13
Ordnance Survey Plan	1:10,000	1965 - 1969	14
Bristol	1:10,000	1972	15
Ordnance Survey Plan	1:10,000	1973	16
Ordnance Survey Plan	1:10,000	1984 - 1988	17
Ordnance Survey Plan	1:10,000	1992	18
10K Raster Mapping	1:10,000	1999	19
10K Raster Mapping	1:10,000	2006	20
VectorMap Local	1:10,000	2023	21

Historical Map - Slice A



Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA

Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

	Government and Administrative Buildings		Military and Industrial Buildings
	Military and Communication Areas		Subway Entrance
	Fireproof Building		Prominent Fireproof Building
	Non-fireproof Building		Non-fireproof Building (non-dwelling)
	Factory, mill, and flour mill, with chimneys		Factory, mill, and flour mill, without chimneys
	Power Station, drawn to scale		Hydroelectric Power Station
	Radio Station, drawn to scale		Telephone Station, drawn to scale
	Abandoned Open-pit Mine or Quarry		Open-pit Salt Mine
	Pit		Oil Deposit or Well
	Oil Seepage		Natural Gas Tank
	Tailings Pile		Fuel Storage Tanks
	Bench Mark		Drill Hole
	Burial Mound		Triangulation Point on Burial Mound
	Single-track Railroad		Double-track Railroad
	Small Bridge		Tunnel
	Pipe (Culvert)		Railroad and Station Building
	Coniferous Forest		Deciduous Forest
	Mixed Forest		Lawns
	Citrus Orchard		Wet Ground
	Scattered Vegetation		

243,8 Values for prominent elevations
186.0 Numbers for spot elevations, depth soundings, contour lines, etc.
0,2 Velocity of the current, width of river bed, depth of river
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

	Government and Administrative Buildings		Military and Industrial Buildings
	Military and Communication Areas		Subway Entrance
	Partly Demolished Buildings		Demolished Buildings
	Built-Up Area with Fireproof Buildings Predominant		Built-Up Area with Non-Fireproof Buildings Predominant
	Individual Fireproof Building		Prominent Industrial Building
	Individual Dwelling, Fireproof		Ruins of an Individual Dwelling
	Factory or Mill Chimney		Factory or Mill with Chimney
	Factory or Mill without Chimney		Salt Mine
	Tailings Pile		Mine or Open Pit Mine
	Operating Shaft or Mine		Non-Operating Shaft or Mine
	Pit		Stone Quarry
	Gas Pump or Service Station		Fuel Storage or Natural Gas Tank
	Oil or Natural Gas Derrick		Small Hydroelectric Power Station
	Power Station		Transformer Station
	Cemetery		Burial Mound (height in metres)
	Triangulation Point on Burial Mound		Triangulation Point
	Bench Mark		Telegraph Office
	Telephone Station		Radio Station
	Radio Tower		Airfield or Seaplane Base
	Landing Strip		Cut
	Fill		Km Post
	Plantings		Width of Road
	Steep Grade		Highway under Construction
	Improved Dirt Road (former truck road)		Small Bridge
	Pipe (Culvert)		Tunnel
	Dismantled Railroad		Double-track Railroad with First Class Station
	Railroad Under Construction		Shore Embankment
	River or Ditch with Embankment		Water Gauge
	Direction and velocity of current		Water Level Mark
	Well		Water Reservoir or Rain Water Pit
	Spring		Isobath with value
	Heavy (Index) Contour Line		Contour Line and Value
	Half Contour Line		Spot Elevation Value
	Coniferous		Deciduous
	Mixed		Scrub

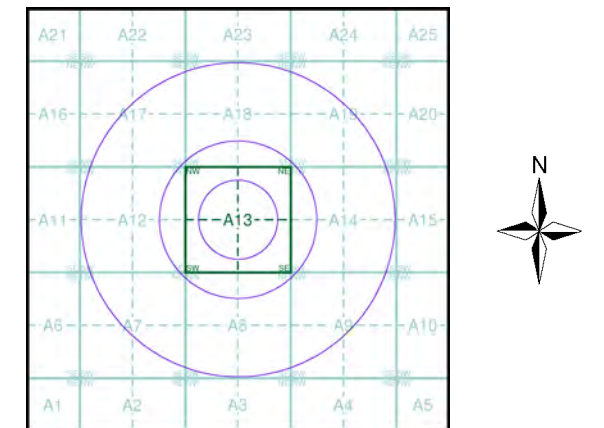
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Somerset	1:10,560	1884	3
Gloucestershire	1:10,560	1886 - 1887	4
Gloucestershire	1:10,560	1904	5
Somerset	1:10,560	1905	6
Gloucestershire	1:10,560	1920 - 1921	7
Somerset	1:10,560	1932	8
Somerset	1:10,560	1938	9
Gloucestershire	1:10,560	1938	10
Somerset	1:10,560	1938	11
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Ordnance Survey Plan	1:10,000	1965 - 1969	14
Bristol	1:10,000	1972	15
Ordnance Survey Plan	1:10,000	1973	16
Ordnance Survey Plan	1:10,000	1984 - 1988	17
Ordnance Survey Plan	1:10,000	1992	18
10K Raster Mapping	1:10,000	1999	19
10K Raster Mapping	1:10,000	2006	20
VectorMap Local	1:10,000	2023	21

Russian Map - Slice A



Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



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

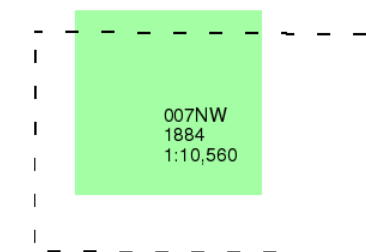
Somerset

Published 1884

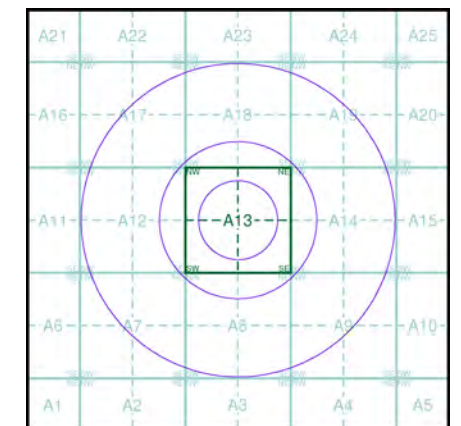
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

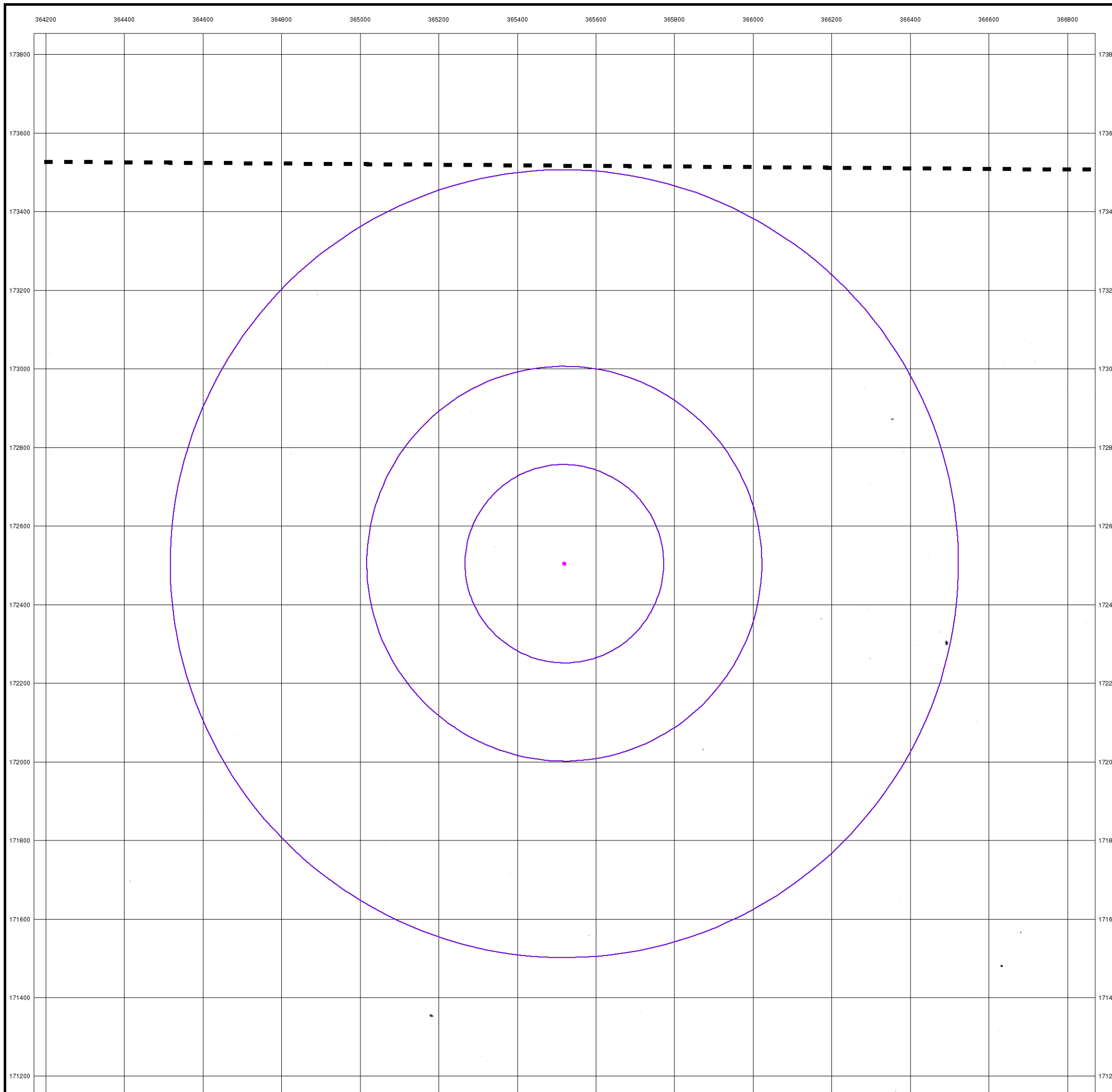


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
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 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Gloucestershire

Published 1886 - 1887

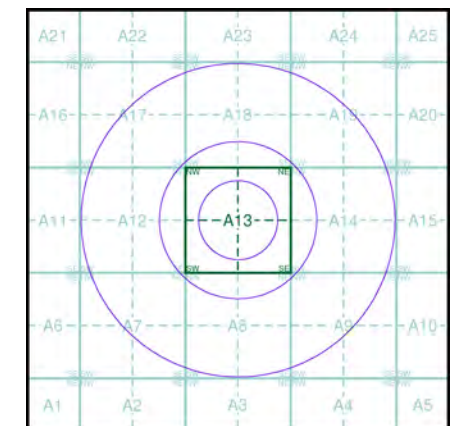
Source map scale - 1:10,560

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)

072SE	1887	1:10,560
076NE	1886	1:10,560

Historical Map - Slice A



Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Gloucestershire

Published 1904

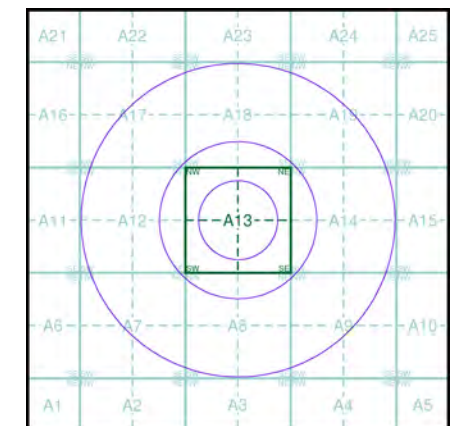
Source map scale - 1:10,560

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)

072SE	1904	1:10,560
076NE	1904	1:10,560

Historical Map - Slice A



Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



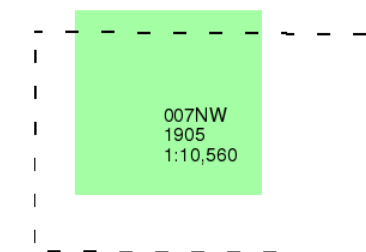
Somerset

Published 1905

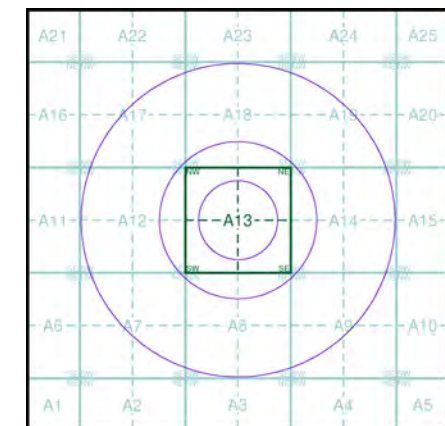
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

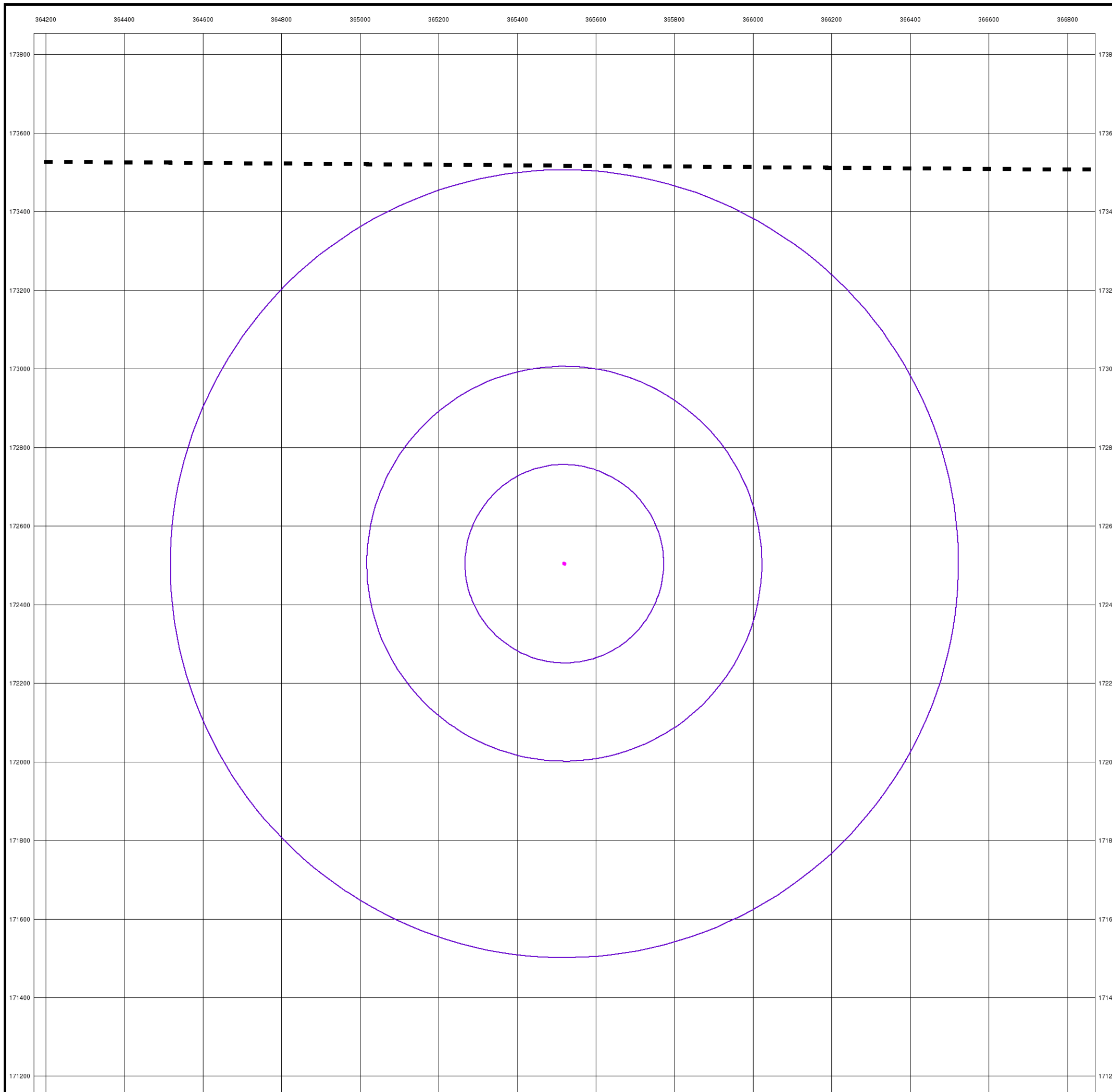


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Gloucestershire

Published 1920 - 1921

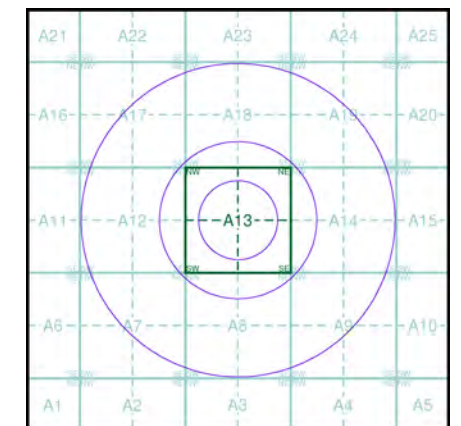
Source map scale - 1:10,560

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)

072SE	1921	1:10,560
076NE	1920	1:10,560

Historical Map - Slice A

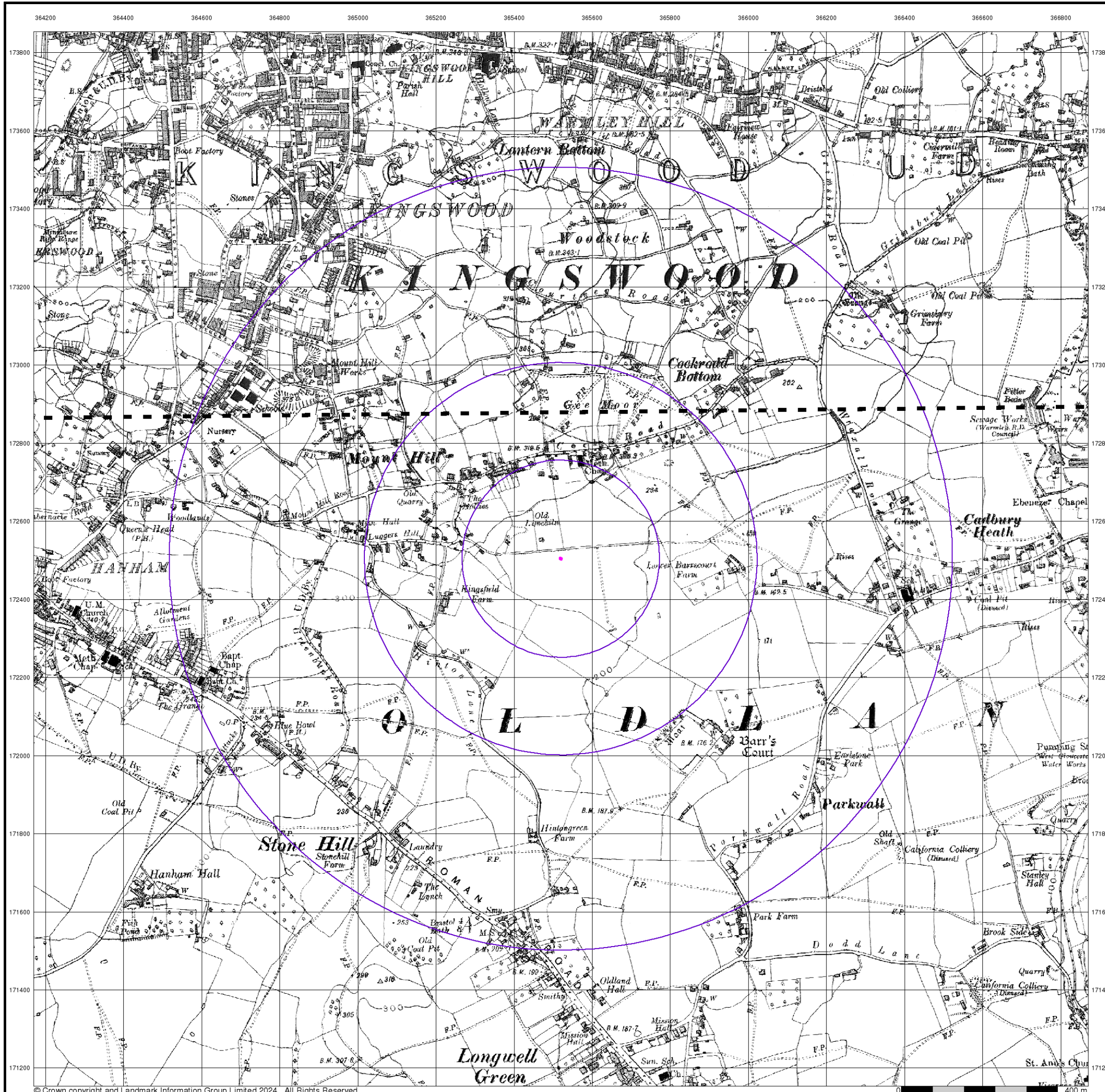


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



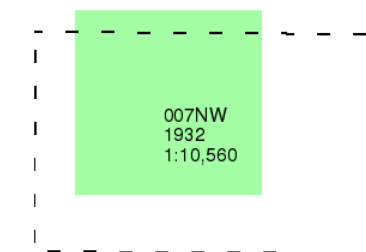
Somerset

Published 1932

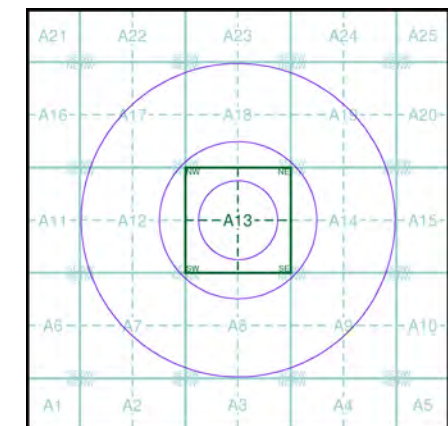
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

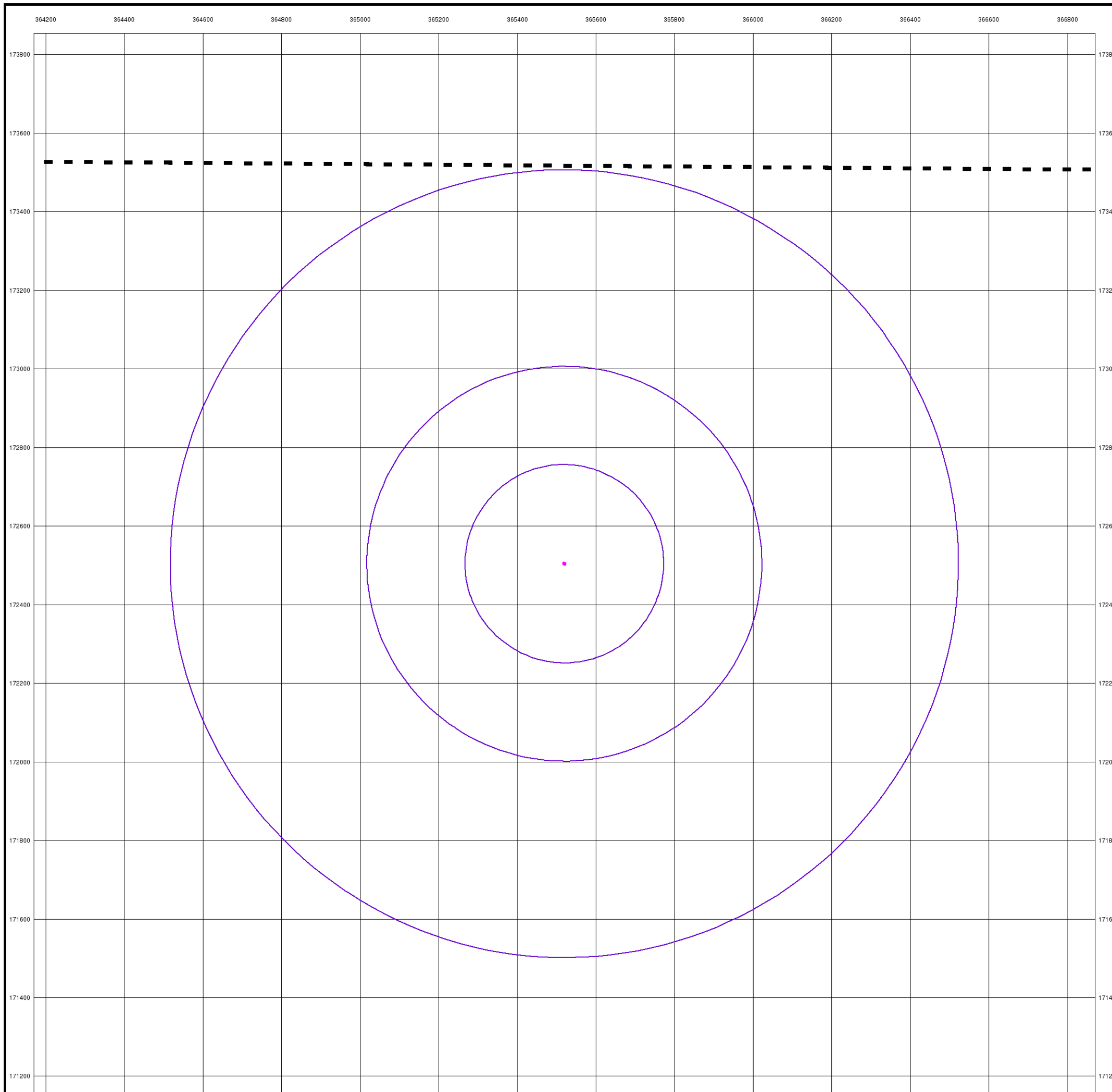


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



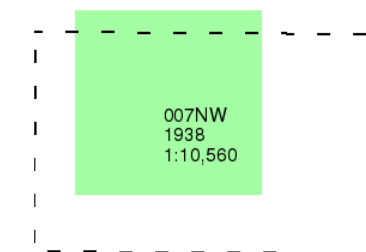
Somerset

Published 1938

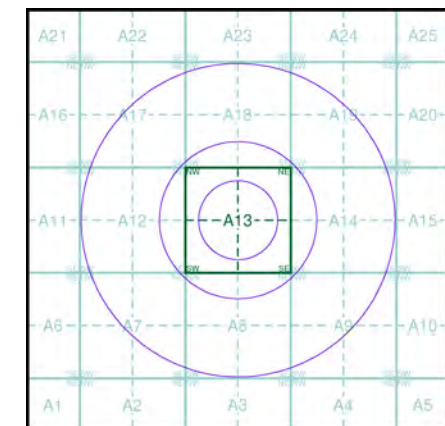
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

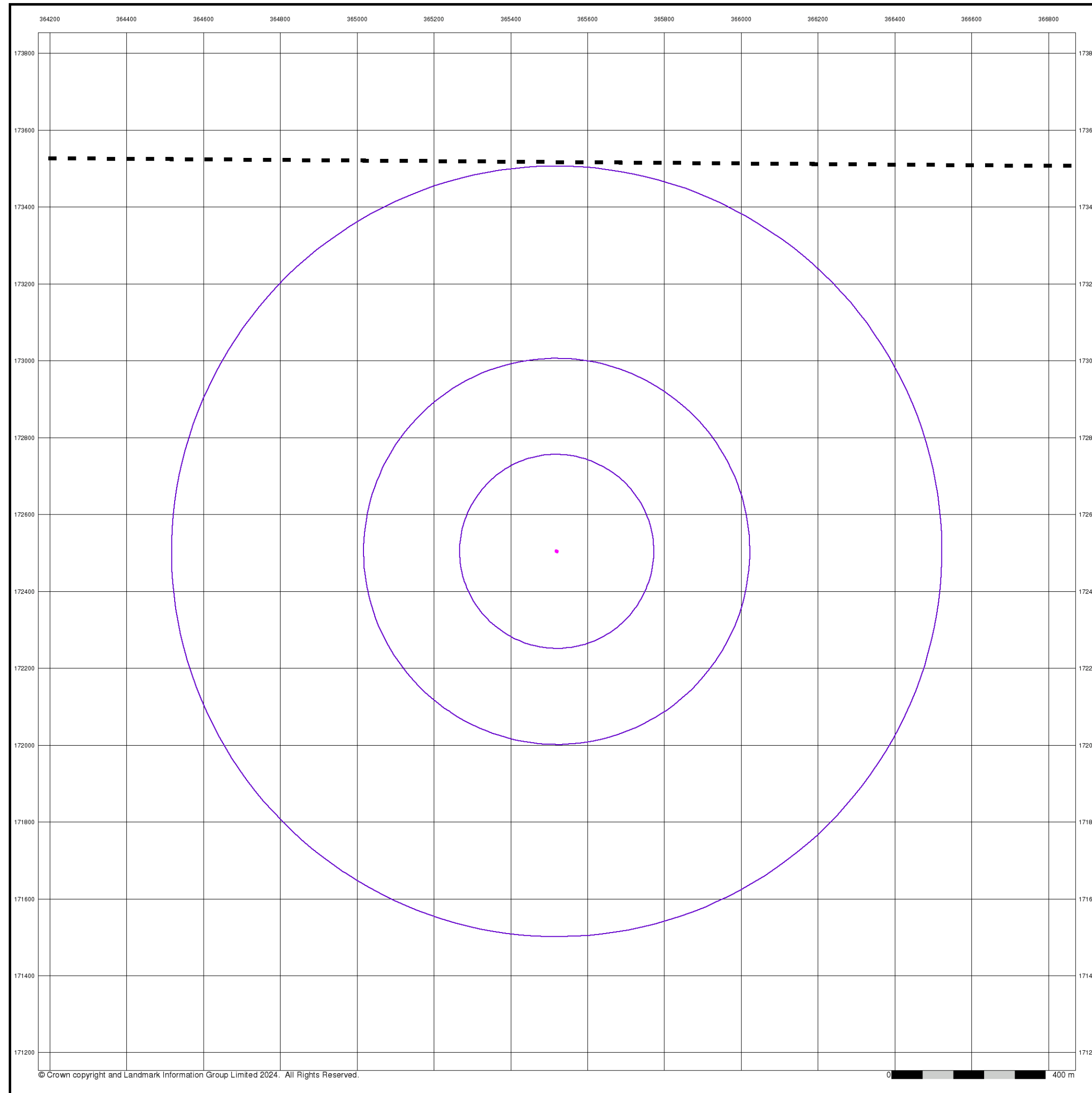


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
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 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Gloucestershire

Published 1938

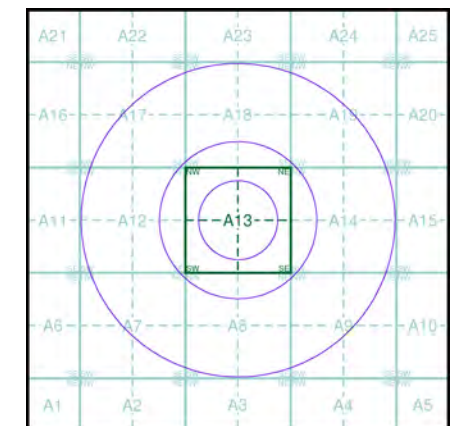
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

072SE	1938	1:10,560
076NE	1938	1:10,560

Historical Map - Slice A



Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



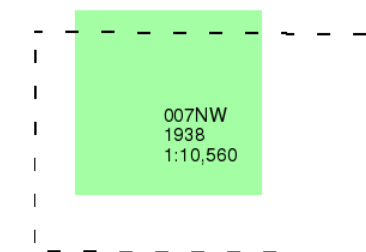
Somerset

Published 1938

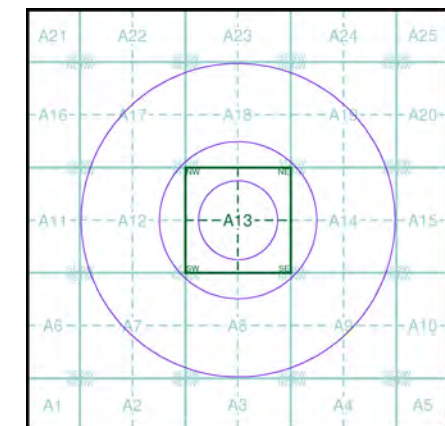
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

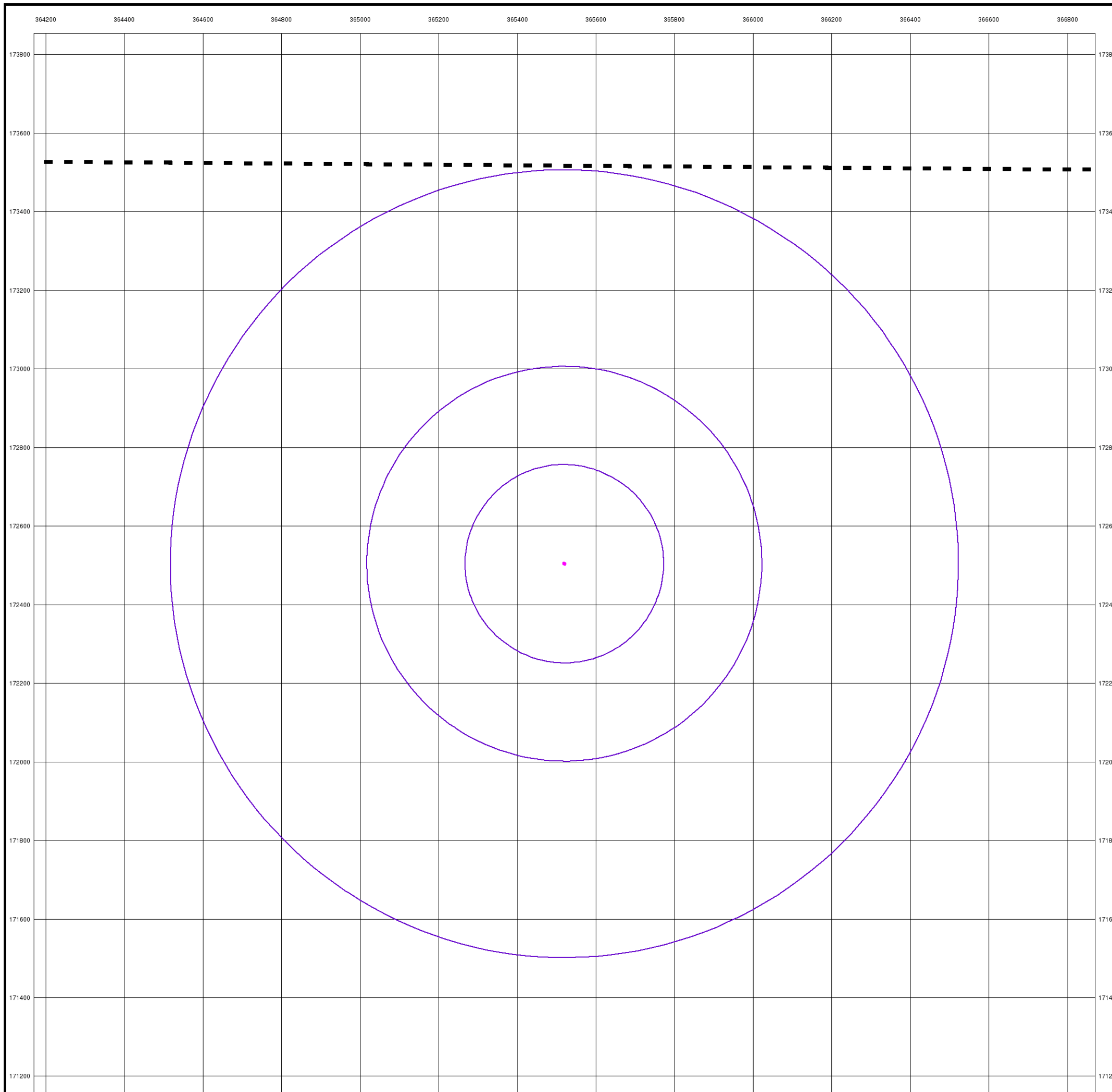


Order Details

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 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Gloucestershire

Published 1938

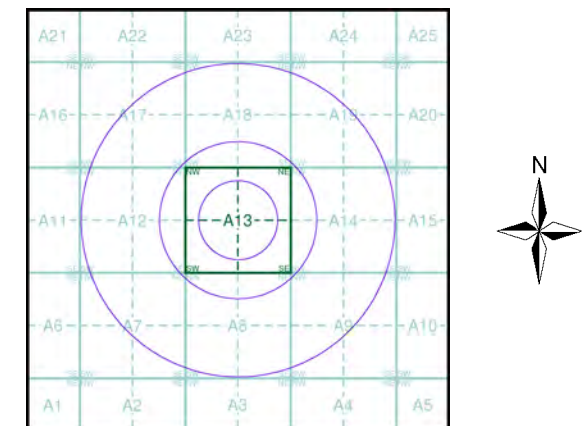
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

072SE	1938	1:10,560
076NE	1938	1:10,560

Historical Map - Slice A

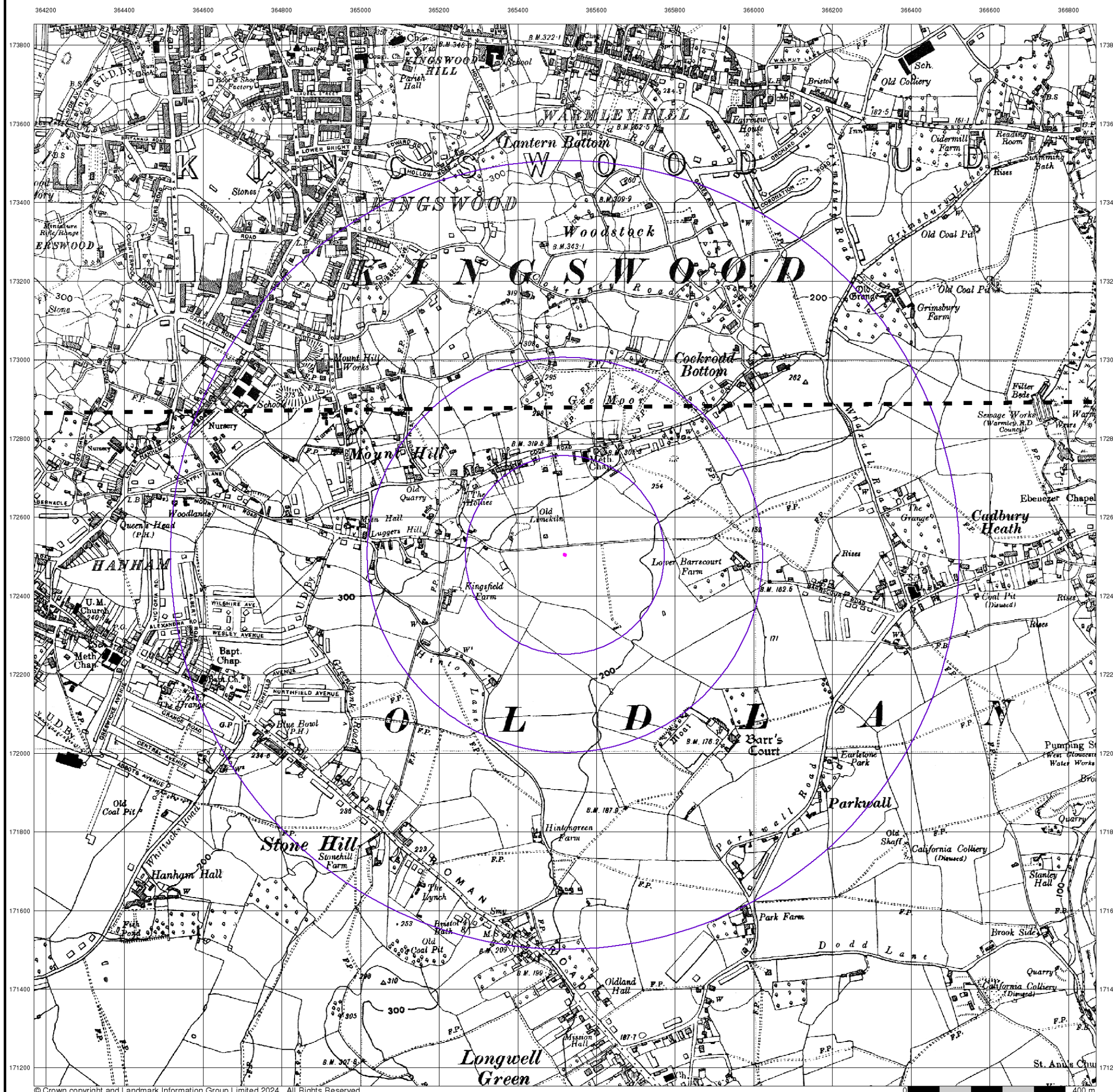


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
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Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



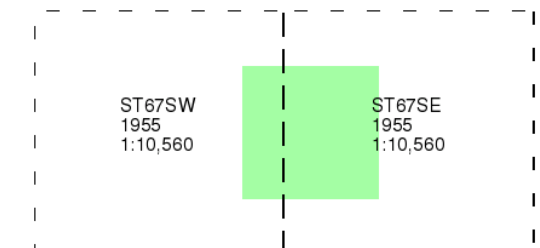
Ordnance Survey Plan

Published 1955

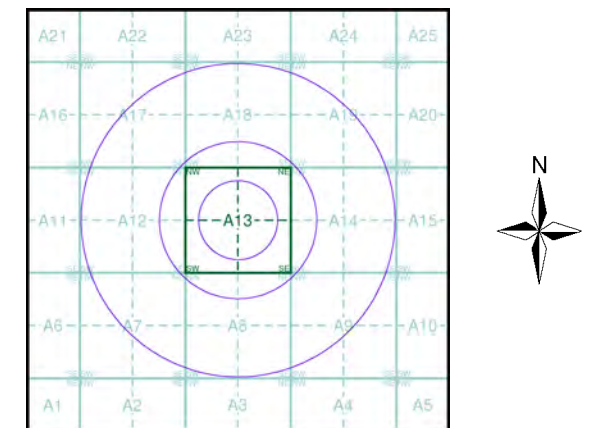
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

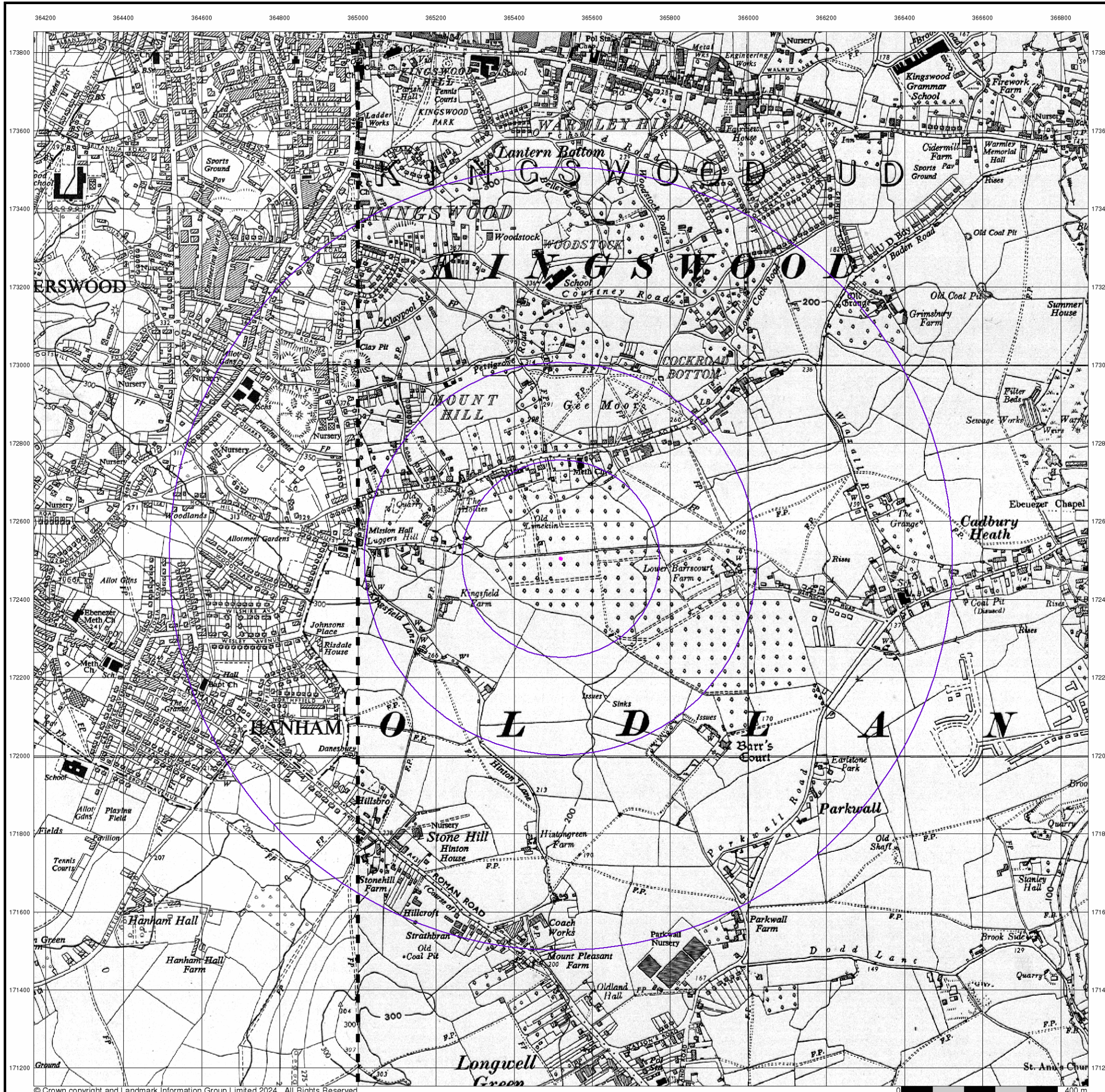


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



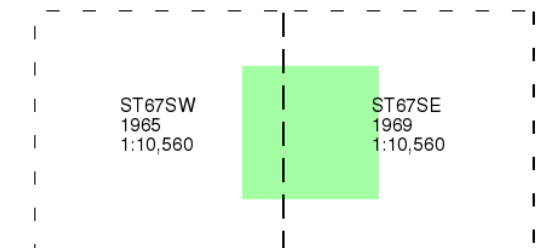
Ordnance Survey Plan

Published 1965 - 1969

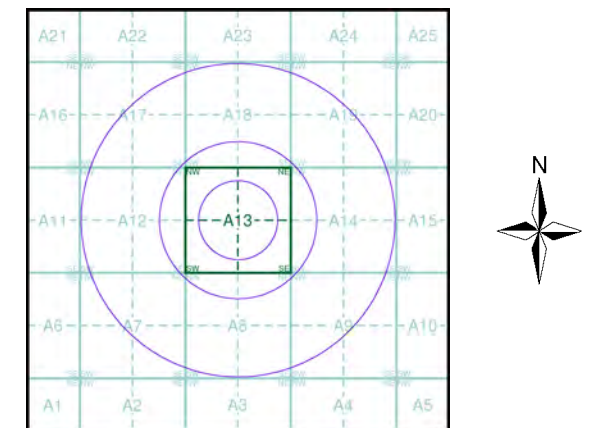
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

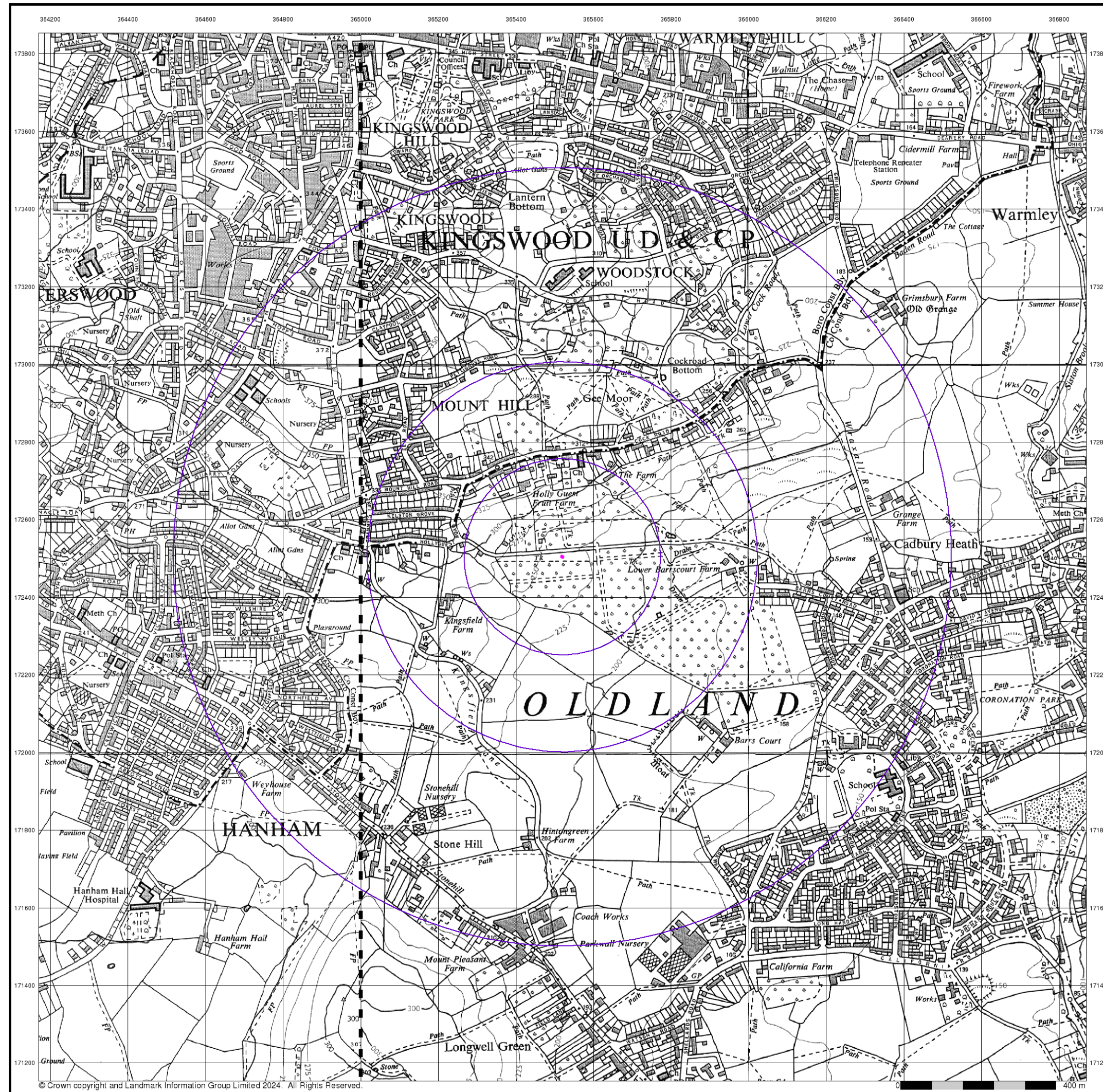


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Bristol

Published 1972

Source map scale - 1:10,000

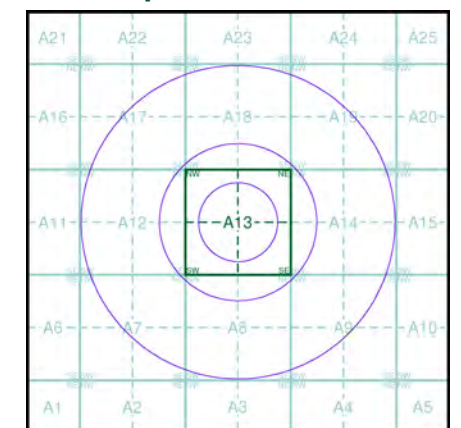
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

ST67SW 1972 1:10,000		ST67SE 1972 1:10,000
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Russian Map - Slice A

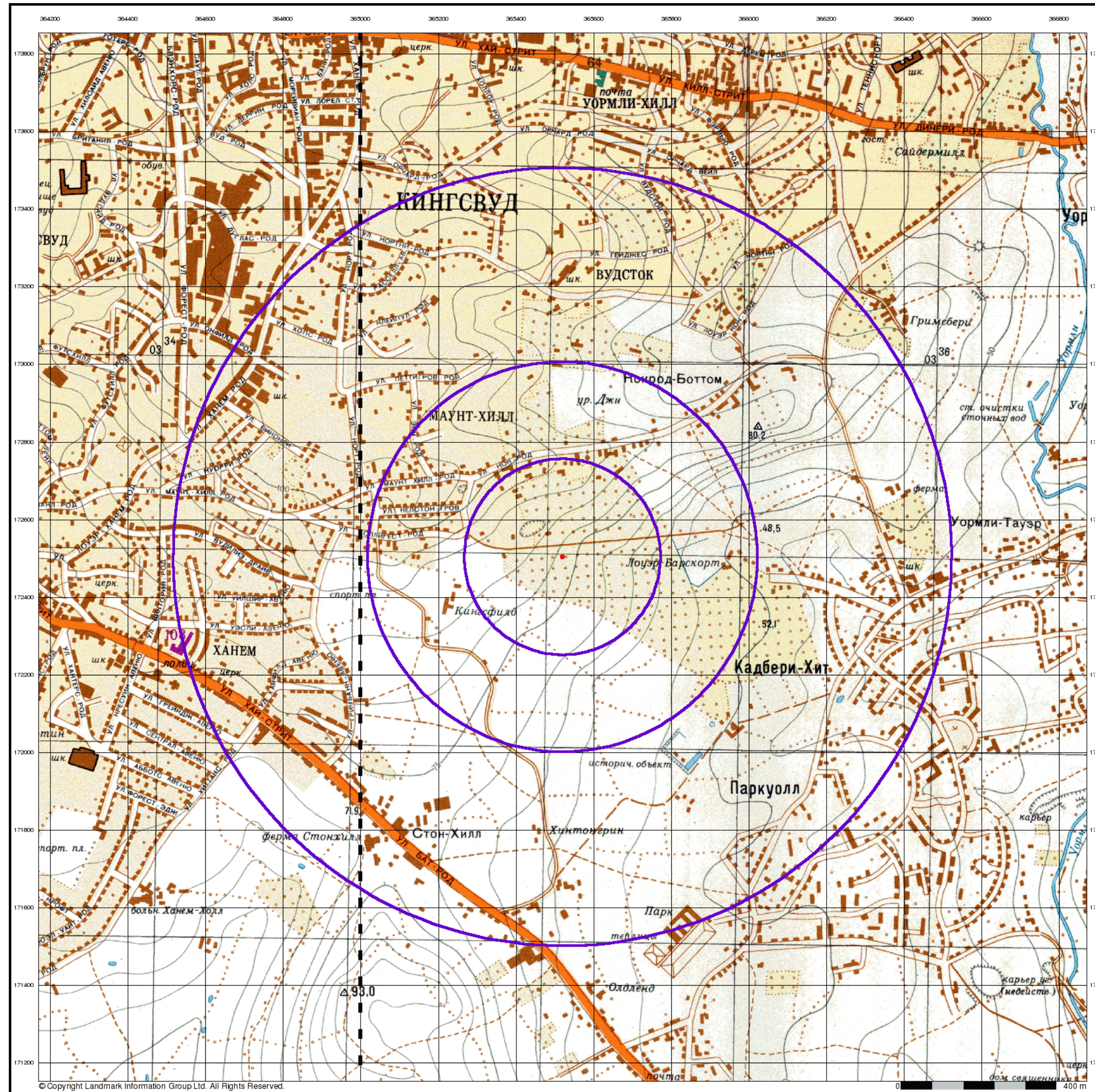


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
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 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



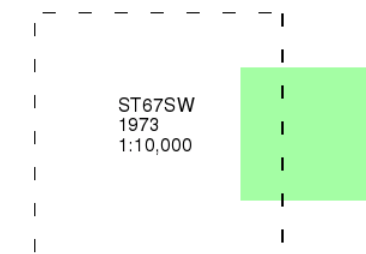
Ordnance Survey Plan

Published 1973

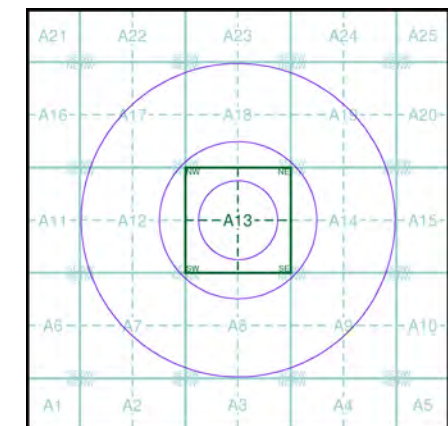
Source map scale - 1:10,000

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.

Map Name(s) and Date(s)



Historical Map - Slice A

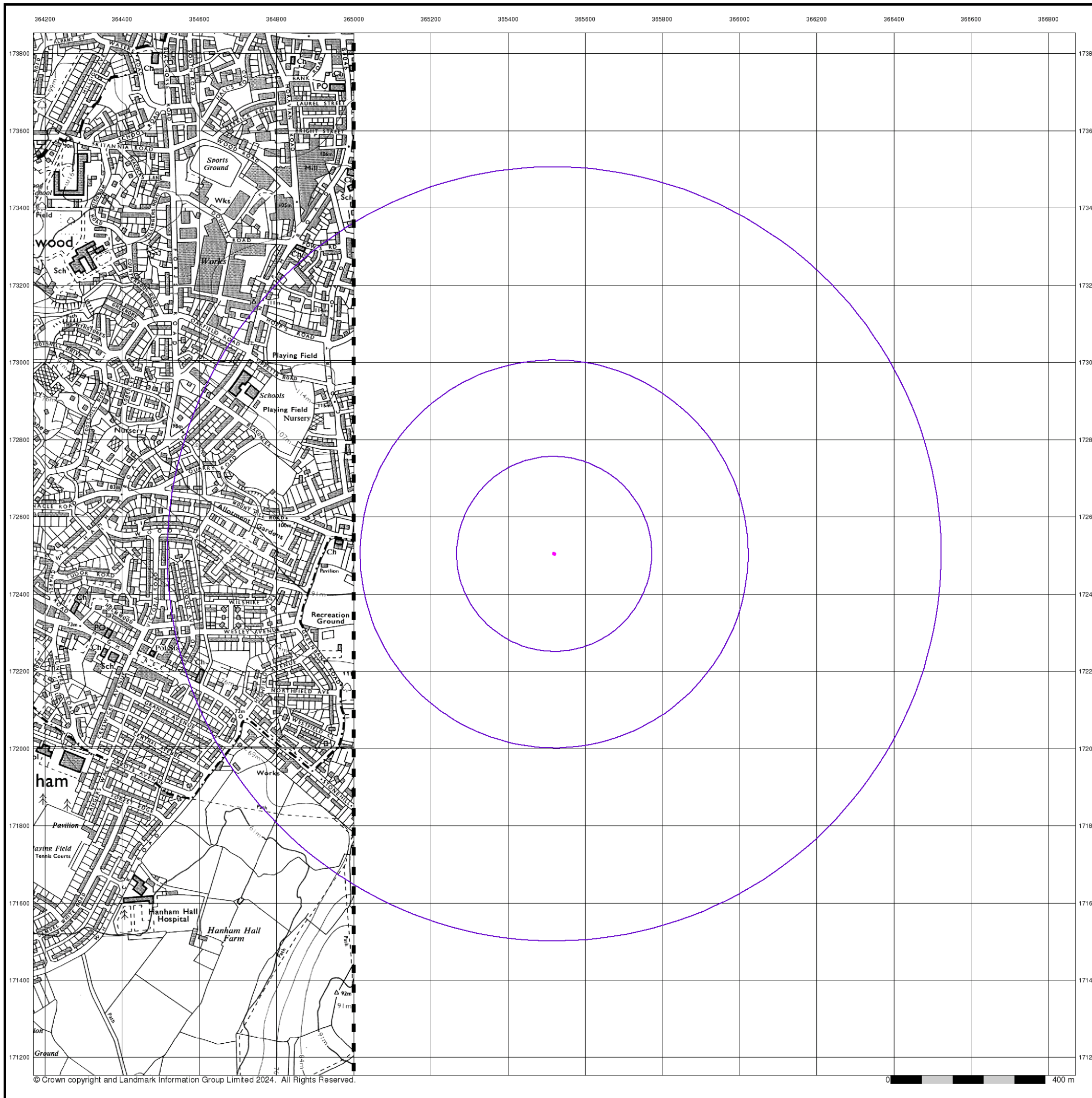


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
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Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



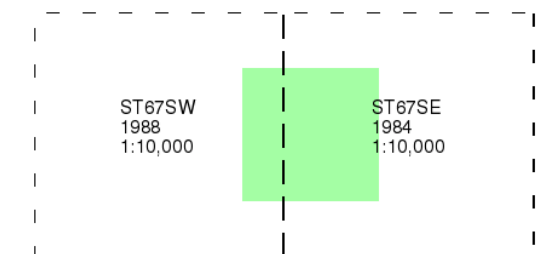
Ordnance Survey Plan

Published 1984 - 1988

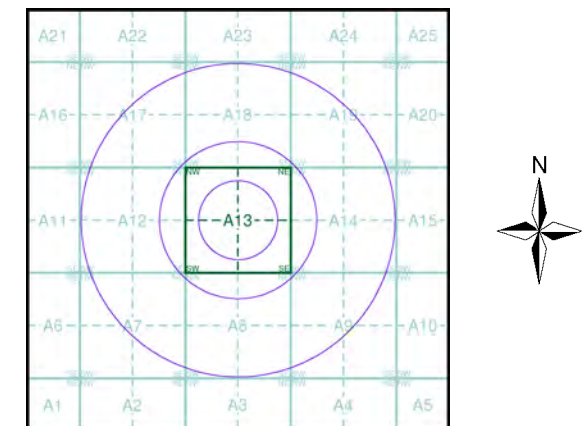
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Ordnance Survey Plan

Published 1992

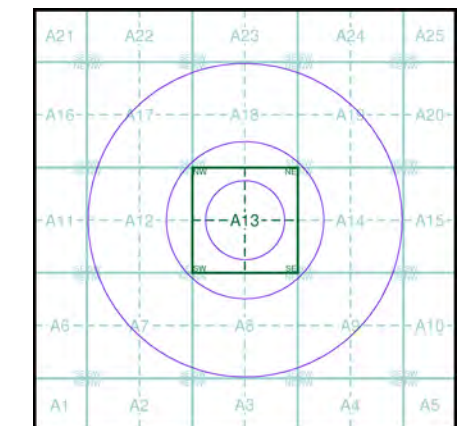
Source map scale - 1:10,000

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)

ST67SE
1992
1:10,000

Historical Map - Slice A

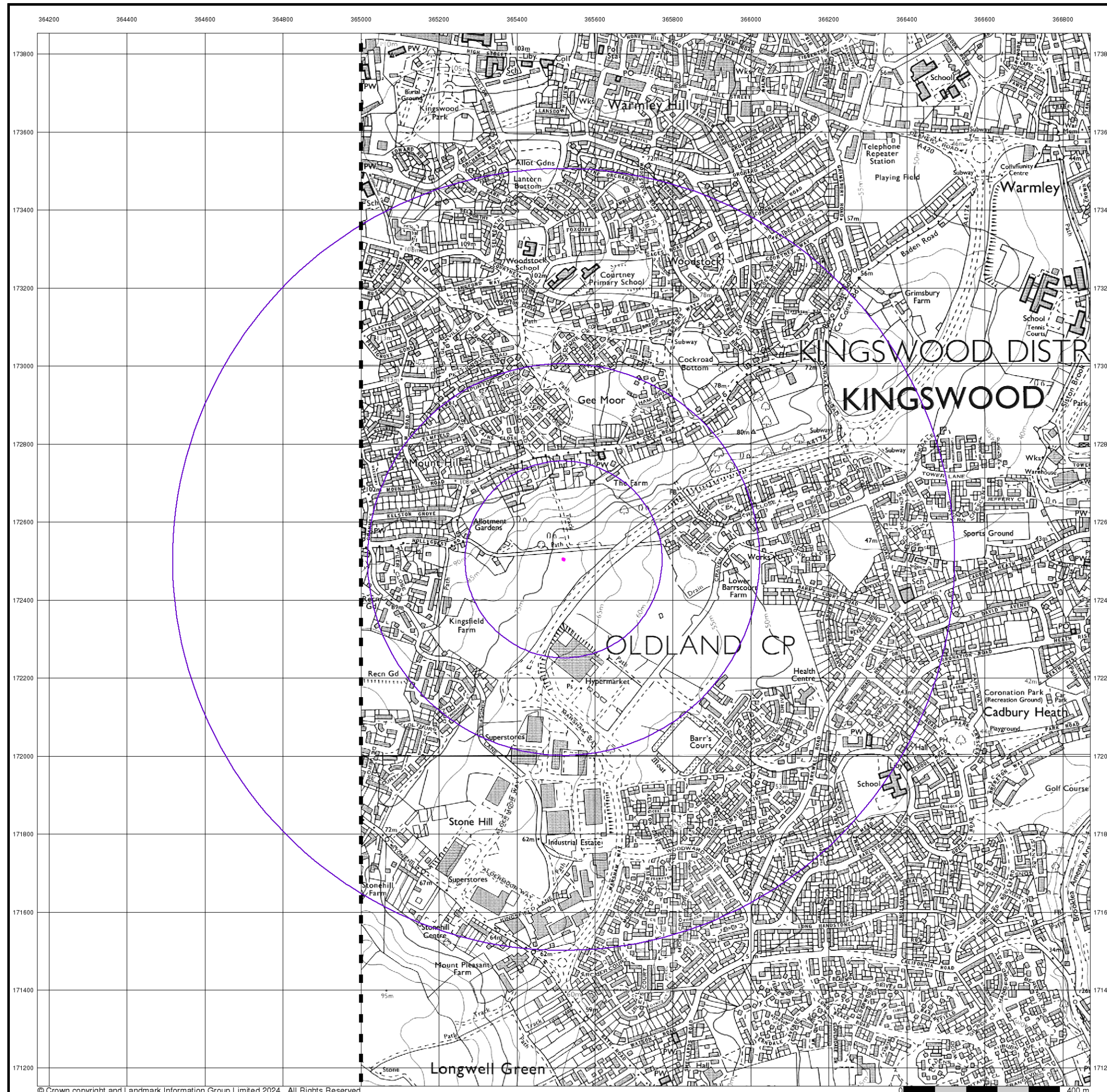


Order Details

Order Number: 333829943_1_1
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 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



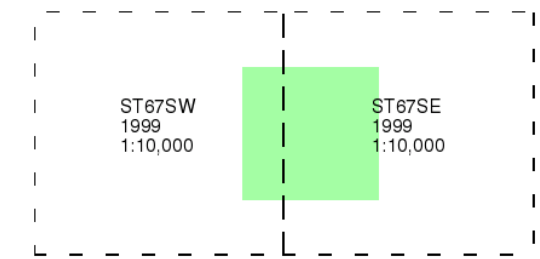
10k Raster Mapping

Published 1999

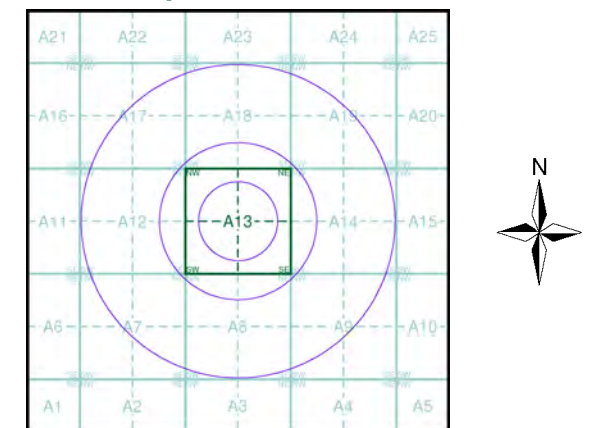
Source map scale - 1:10,000

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 A

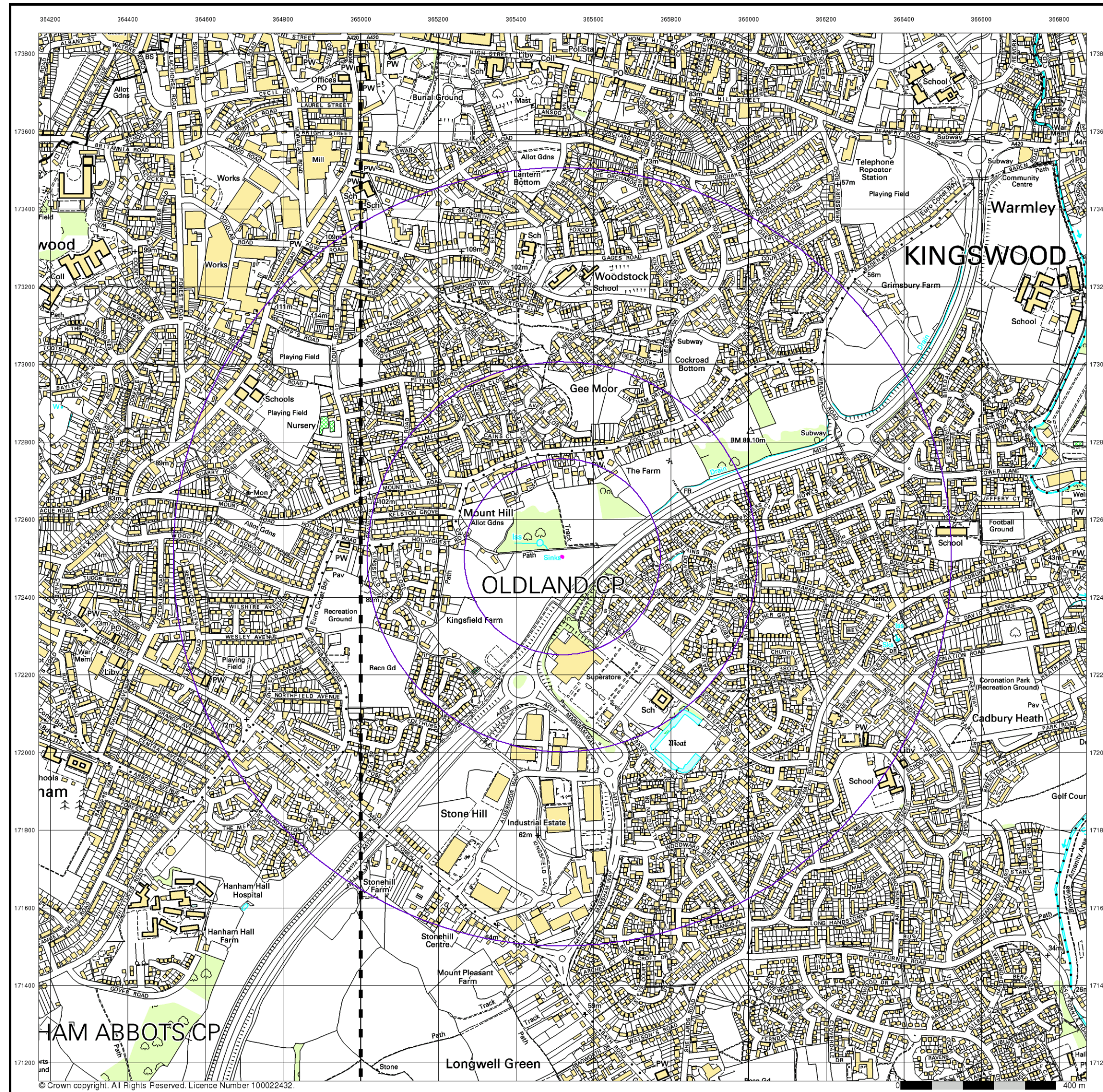


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 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



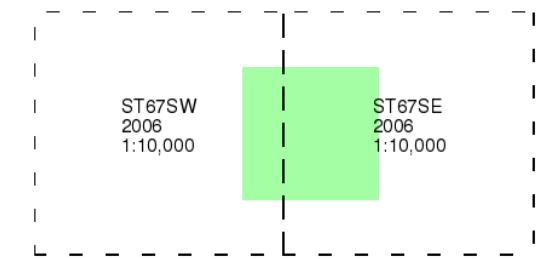
10k Raster Mapping

Published 2006

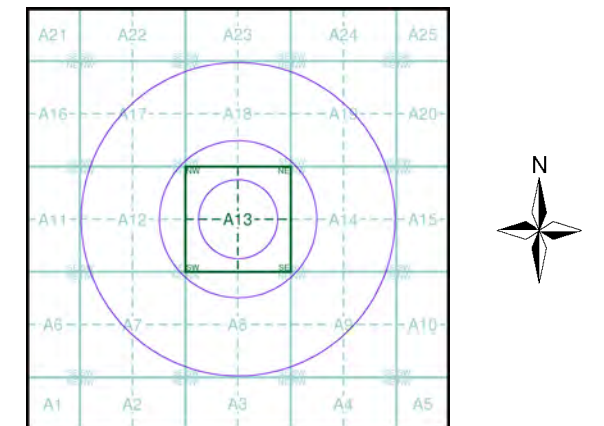
Source map scale - 1:10,000

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 A

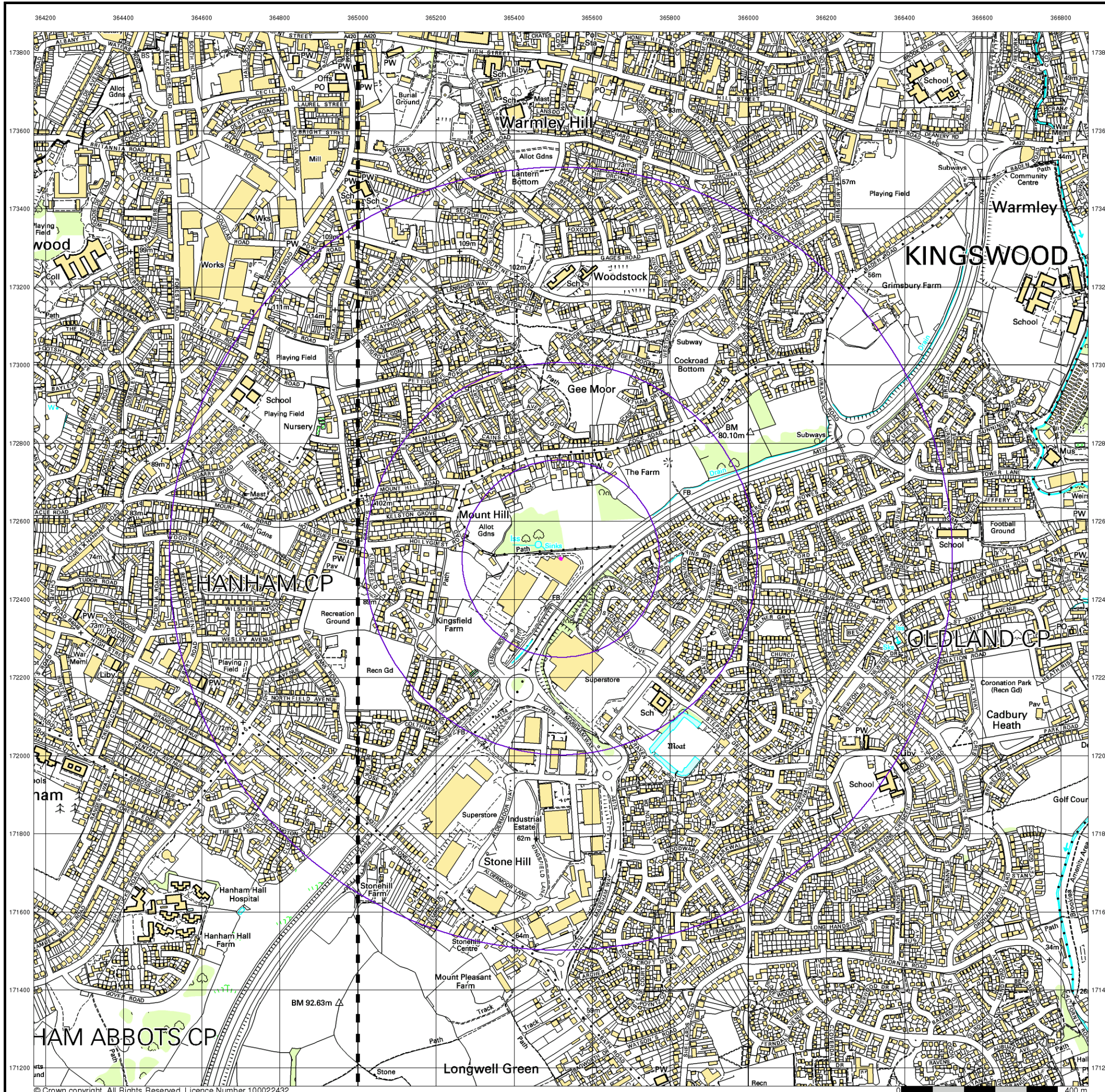


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Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



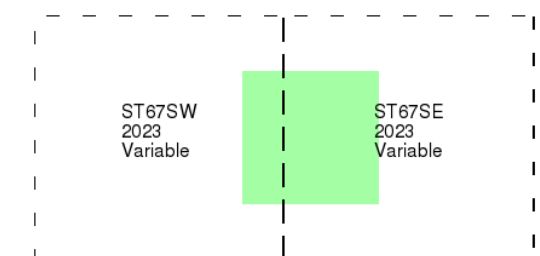
VectorMap Local

Published 2023

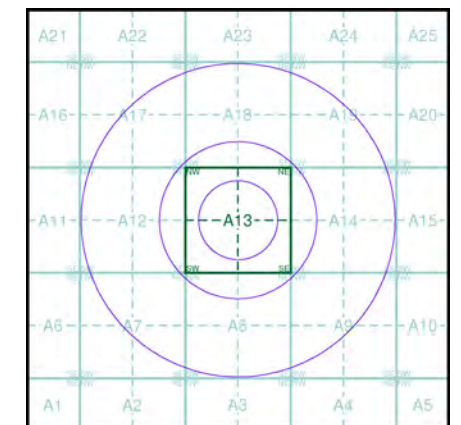
Source map scale - 1:10,000

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 A

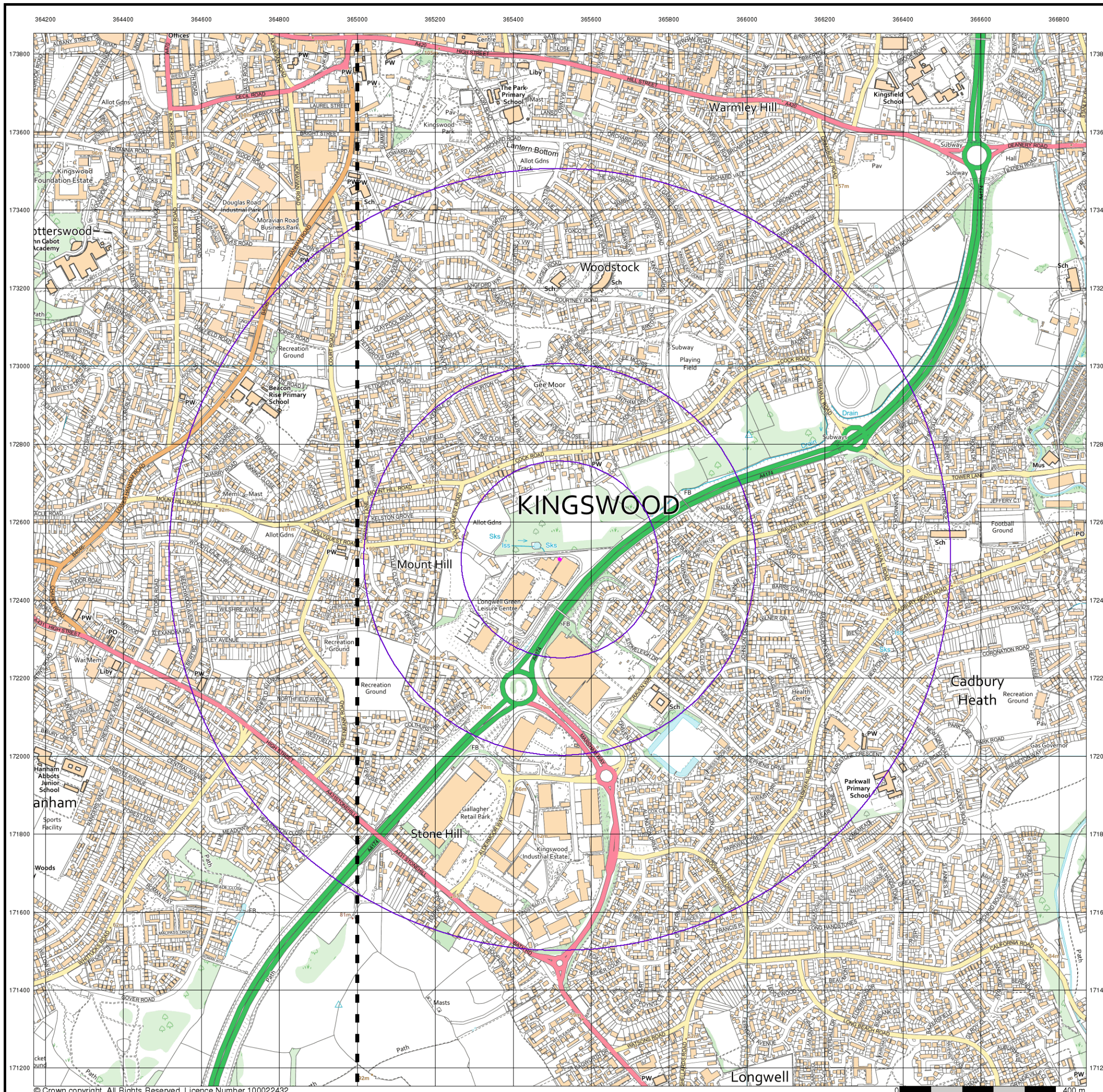


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 Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



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)
Boundary Post or Stone **Police Call Box**
B.R. Bridle Road **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**

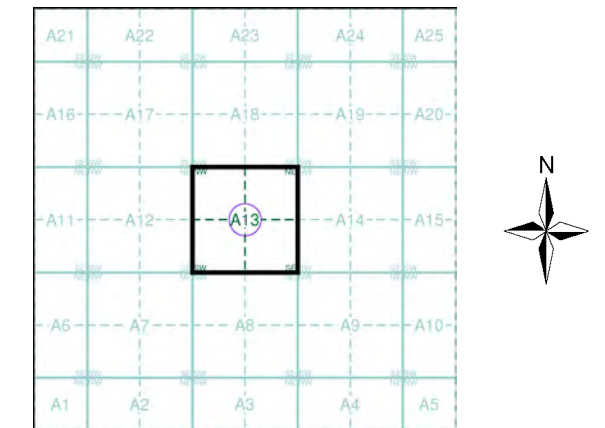
Large-Scale National Grid Data 1:2,500 and 1:1,250

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
Gloucestershire	1:2,500	1882	2
Gloucestershire	1:2,500	1904	3
Gloucestershire	1:2,500	1916	4
Ordnance Survey Plan	1:1,250	1948	5
Ordnance Survey Plan	1:2,500	1948	6
Ordnance Survey Plan	1:1,250	1959 - 1972	7
Additional SIMs	1:1,250	1964 - 1986	8
Ordnance Survey Plan	1:1,250	1965 - 1991	9
Ordnance Survey Plan	1:1,250	1974	10
Additional SIMs	1:1,250	1986 - 1989	11
Ordnance Survey Plan	1:1,250	1989	12
Additional SIMs	1:1,250	1989	13
Large-Scale National Grid Data	1:1,250	1992	14
Large-Scale National Grid Data	1:1,250	1993 - 1994	15
Large-Scale National Grid Data	1:1,250	1993 - 1995	16
Large-Scale National Grid Data	1:1,250	1994	17
Large-Scale National Grid Data	1:1,250	1995	18
Large-Scale National Grid Data	1:1,250	1996	19
Historical Aerial Photography	1:2,500	1999	20

Historical Map - Segment A13



Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA

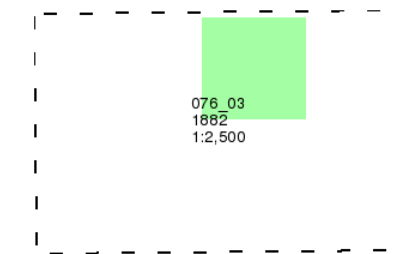
Gloucestershire

Published 1882

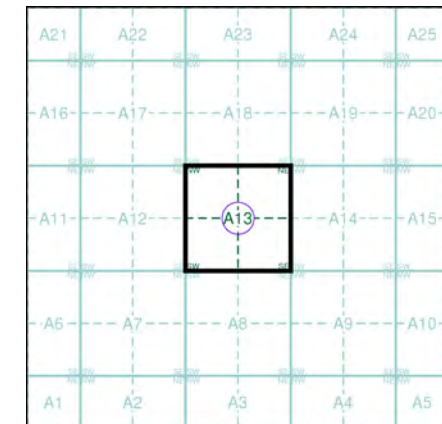
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

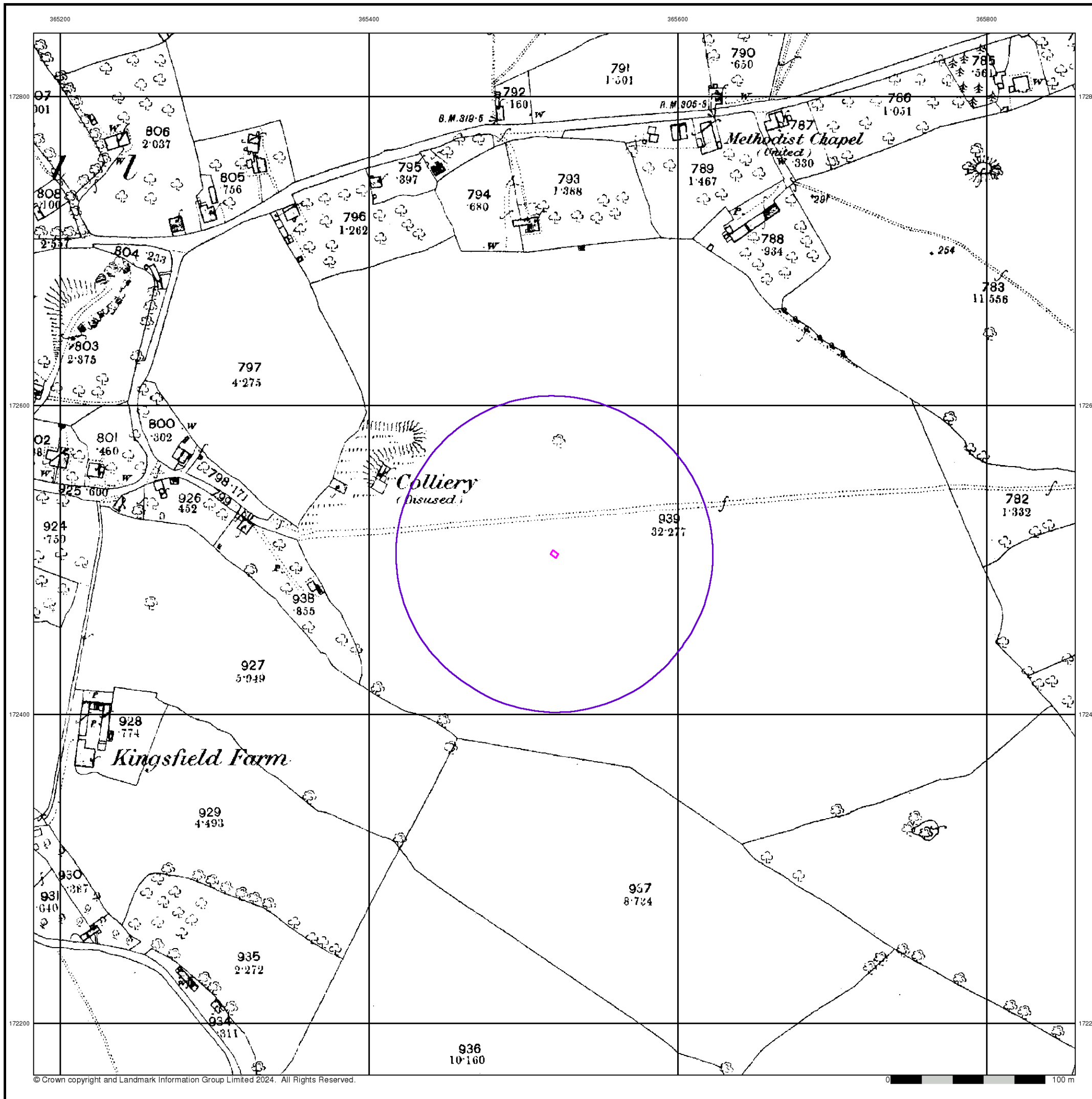


Order Details

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Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



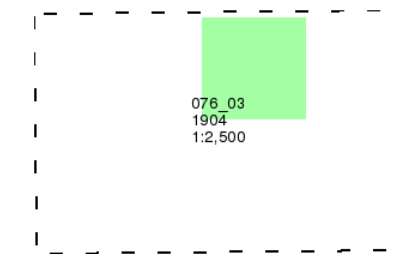
Gloucestershire

Published 1904

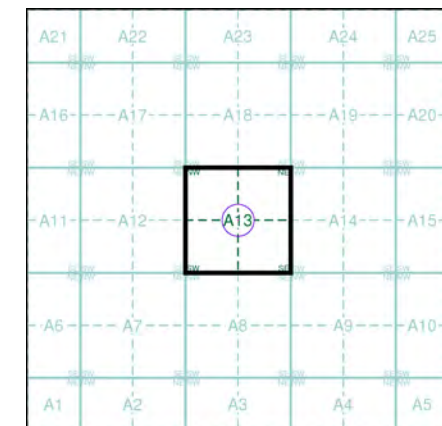
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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 A13

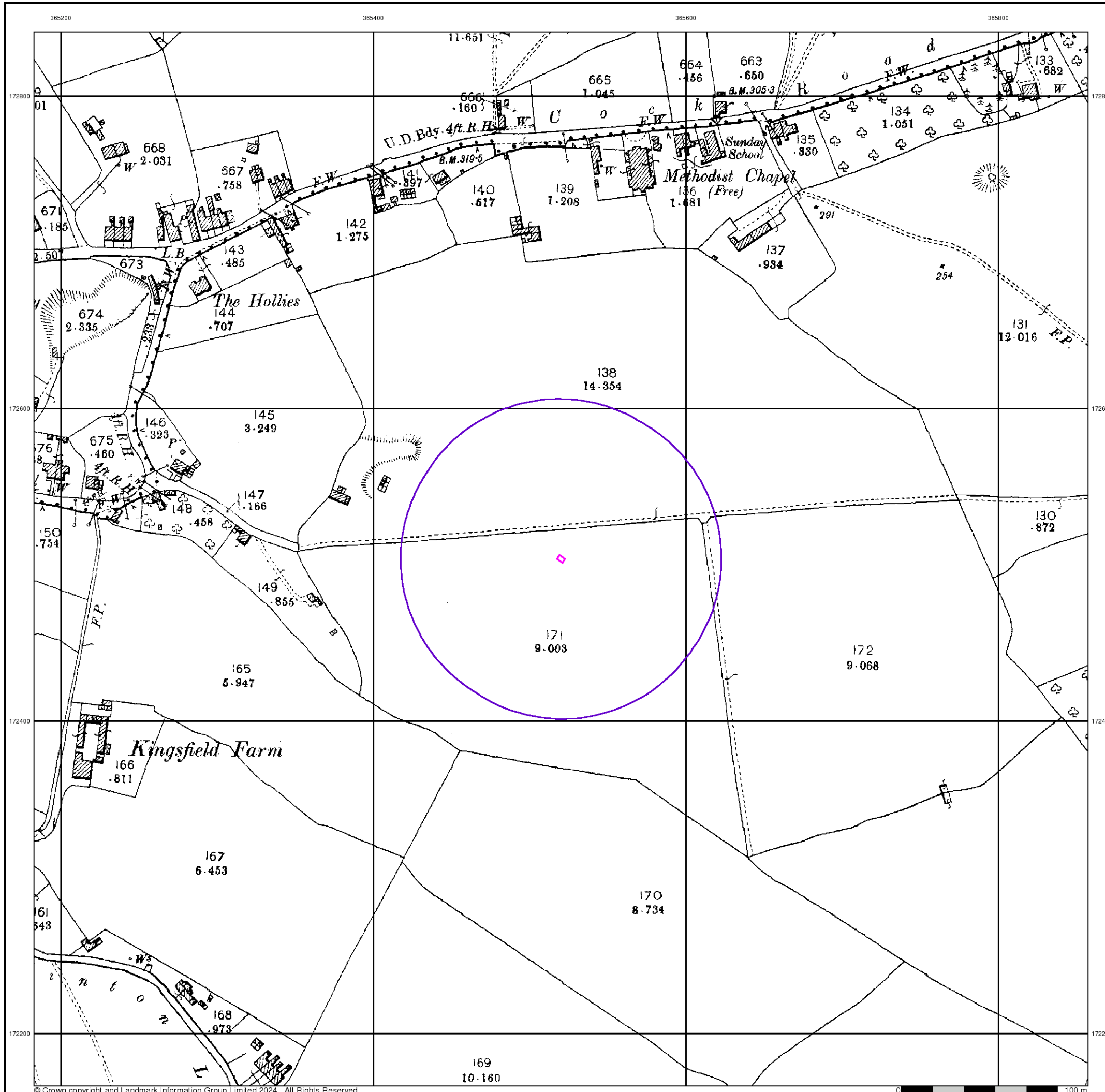


Order Details

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 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



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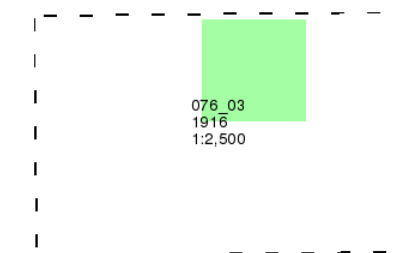
Gloucestershire

Published 1916

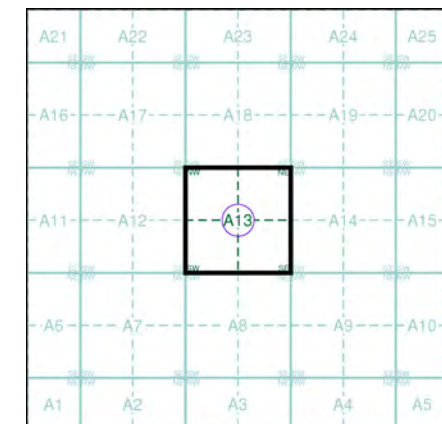
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

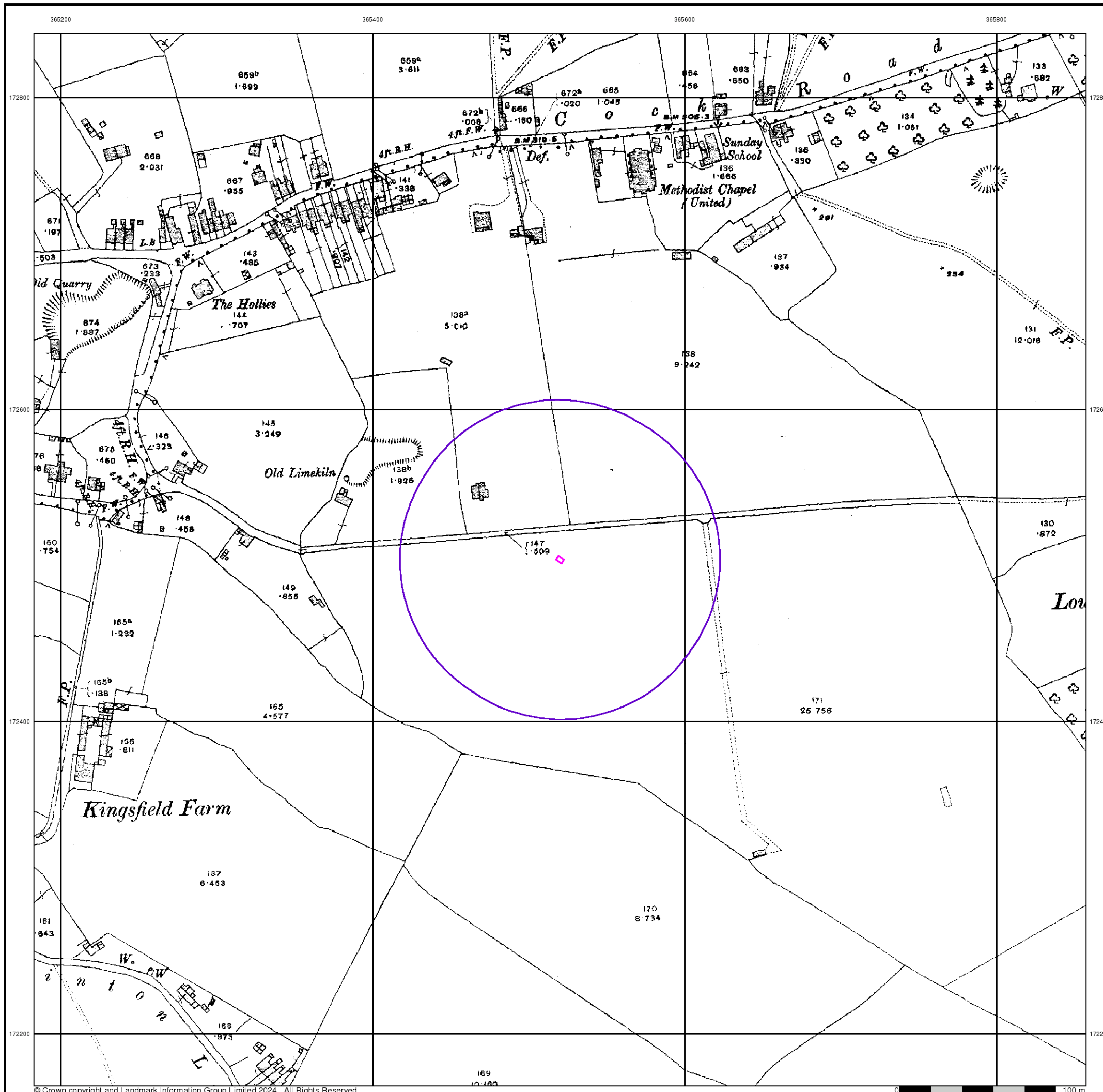


Order Details

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Site Details

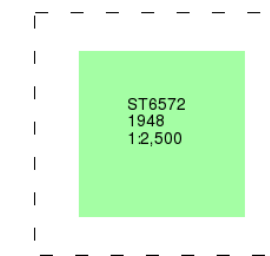
Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



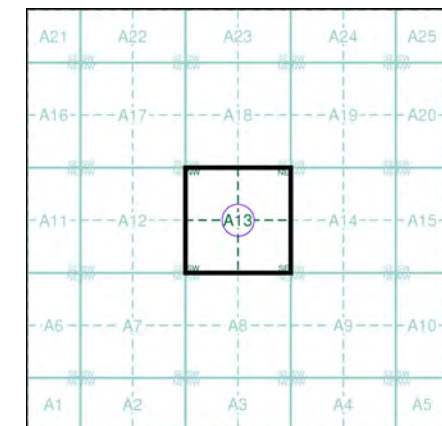
Ordnance Survey Plan
Published 1948
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

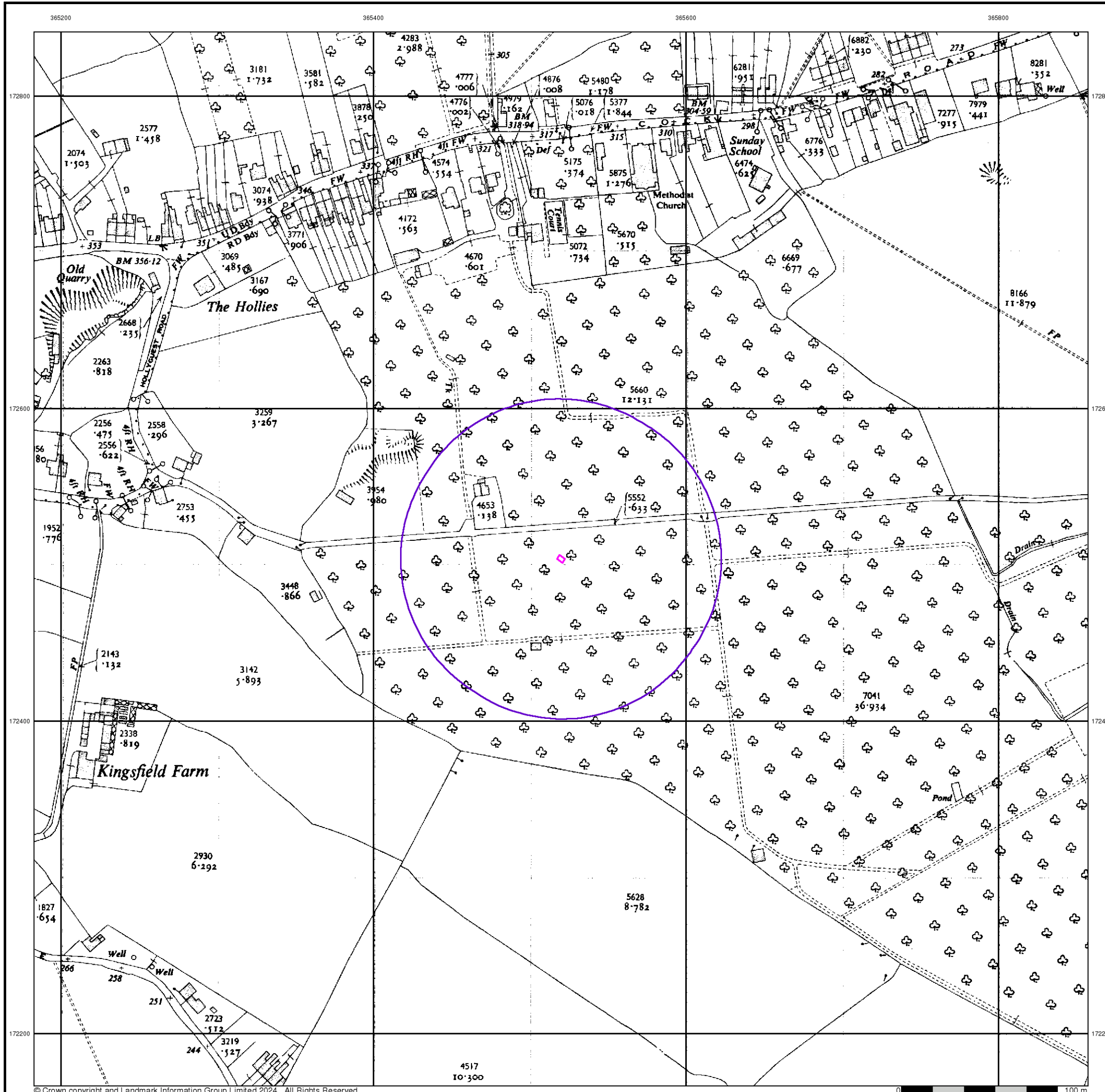


Order Details

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 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Additional SIMs

Published 1964 - 1986

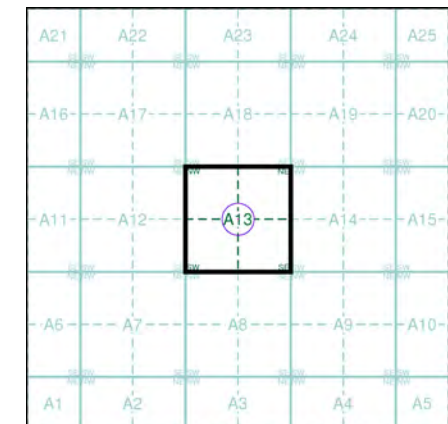
Source map scale - 1:1,250

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)

ST6572NW 1977 1:1,250	ST6572NE 1964 1:1,250
ST6572SW 1986 1:1,250	ST6572SE 1984 1:1,250

Historical Map - Segment A13

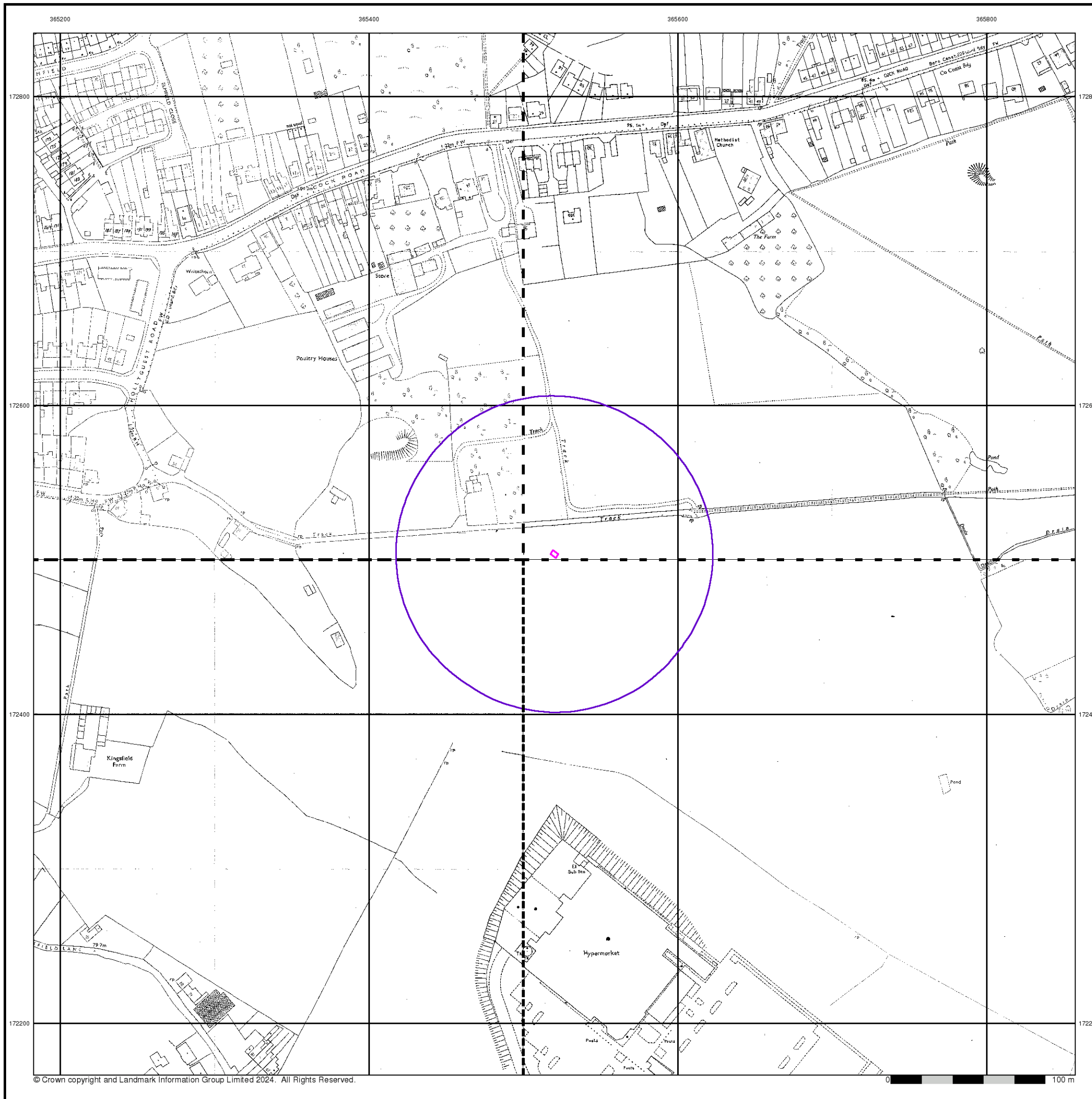


Order Details

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 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Ordnance Survey Plan

Published 1965 - 1991

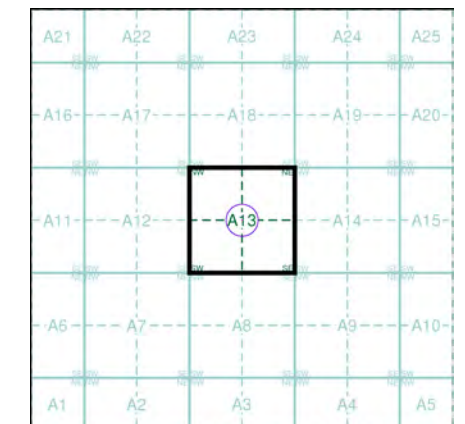
Source map scale - 1:1,250

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)

ST6572NW	1965	1:1,250
ST6572SW	1991	1:1,250

Historical Map - Segment A13

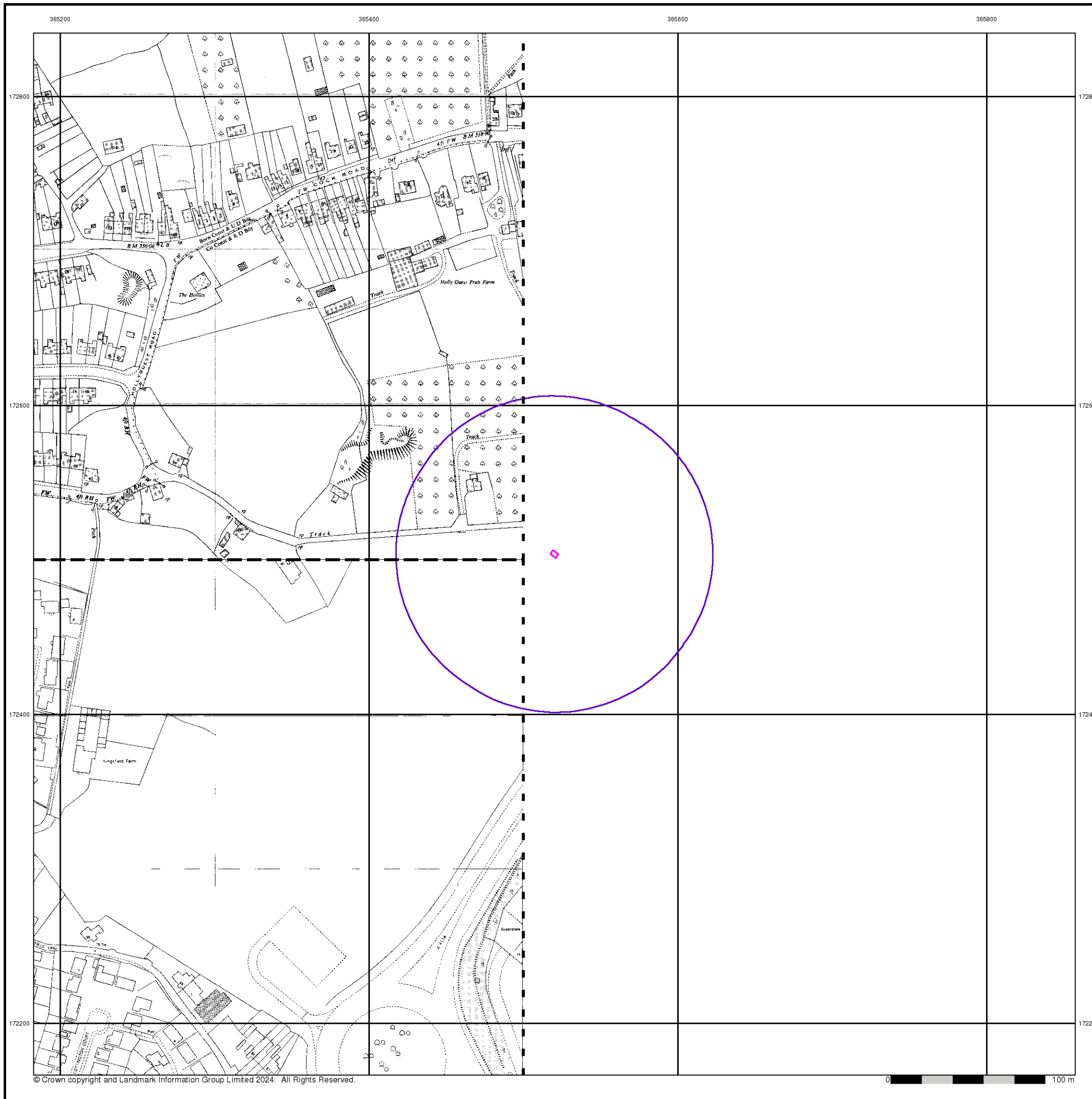


Order Details

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 Search Buffer (m): 100

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Additional SIMs

Published 1986 - 1989

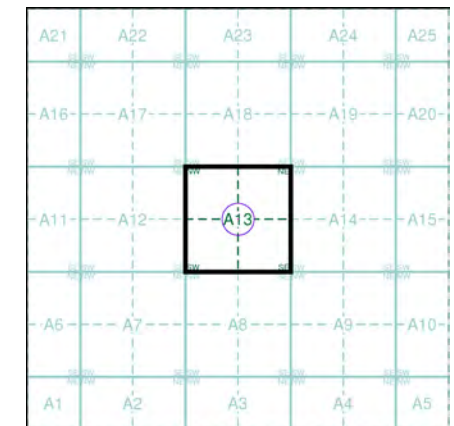
Source map scale - 1:1,250

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)

ST6572NW 1986 1:1,250	ST6572NE 1989 1:1,250
ST6572SW 1989 1:1,250	ST6572SE 1989 1:1,250

Historical Map - Segment A13

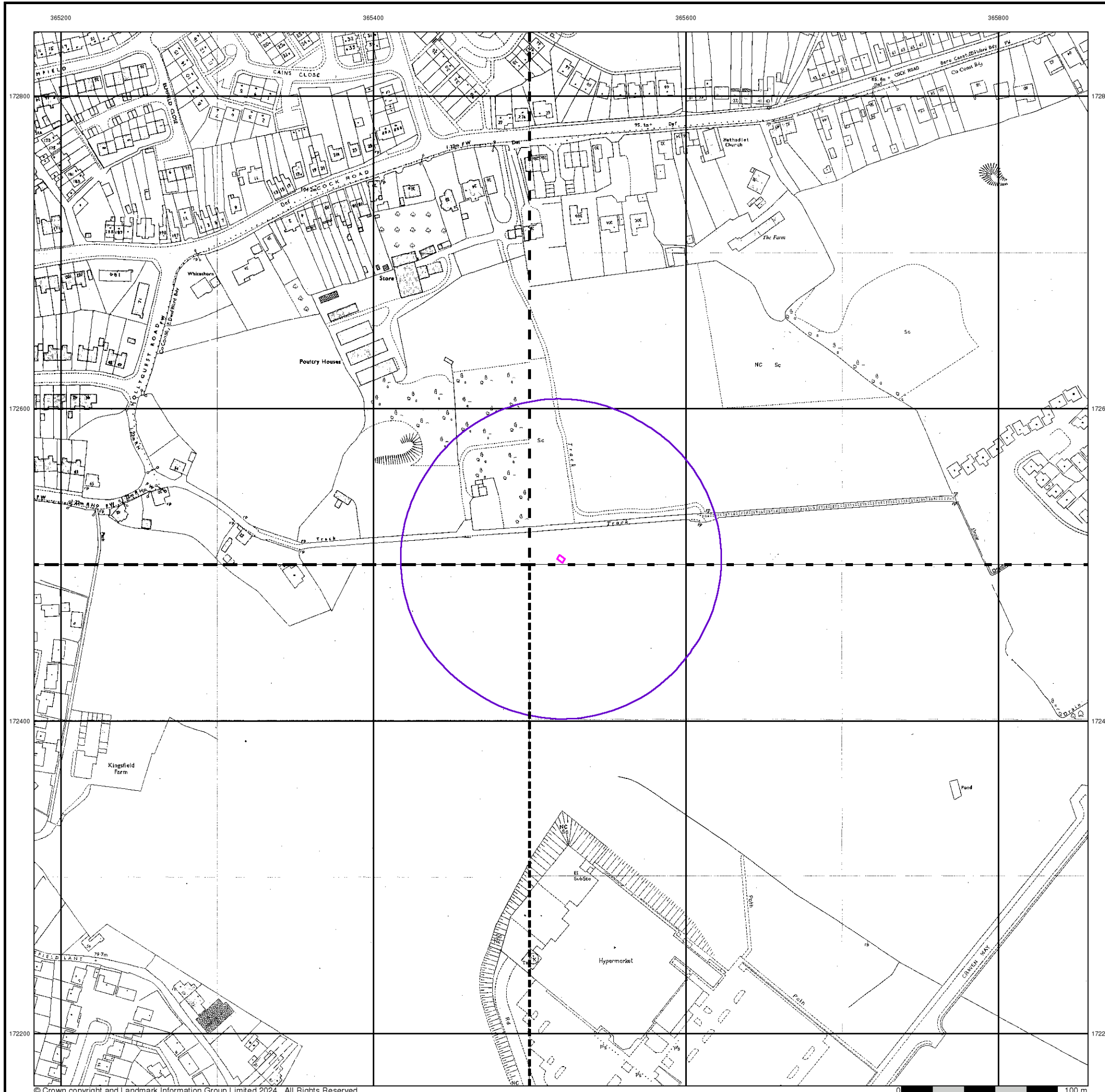


Order Details

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Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



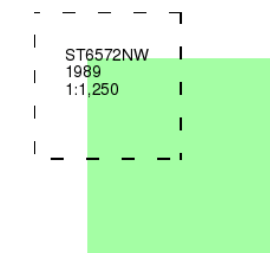
Ordnance Survey Plan

Published 1989

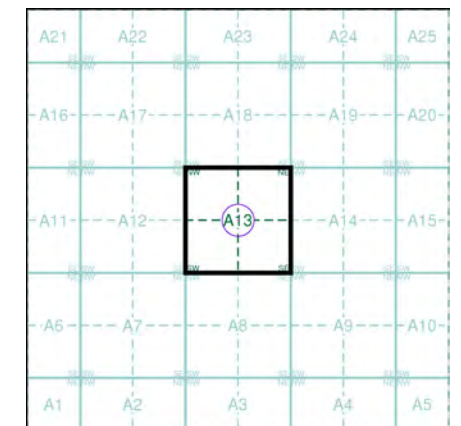
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13

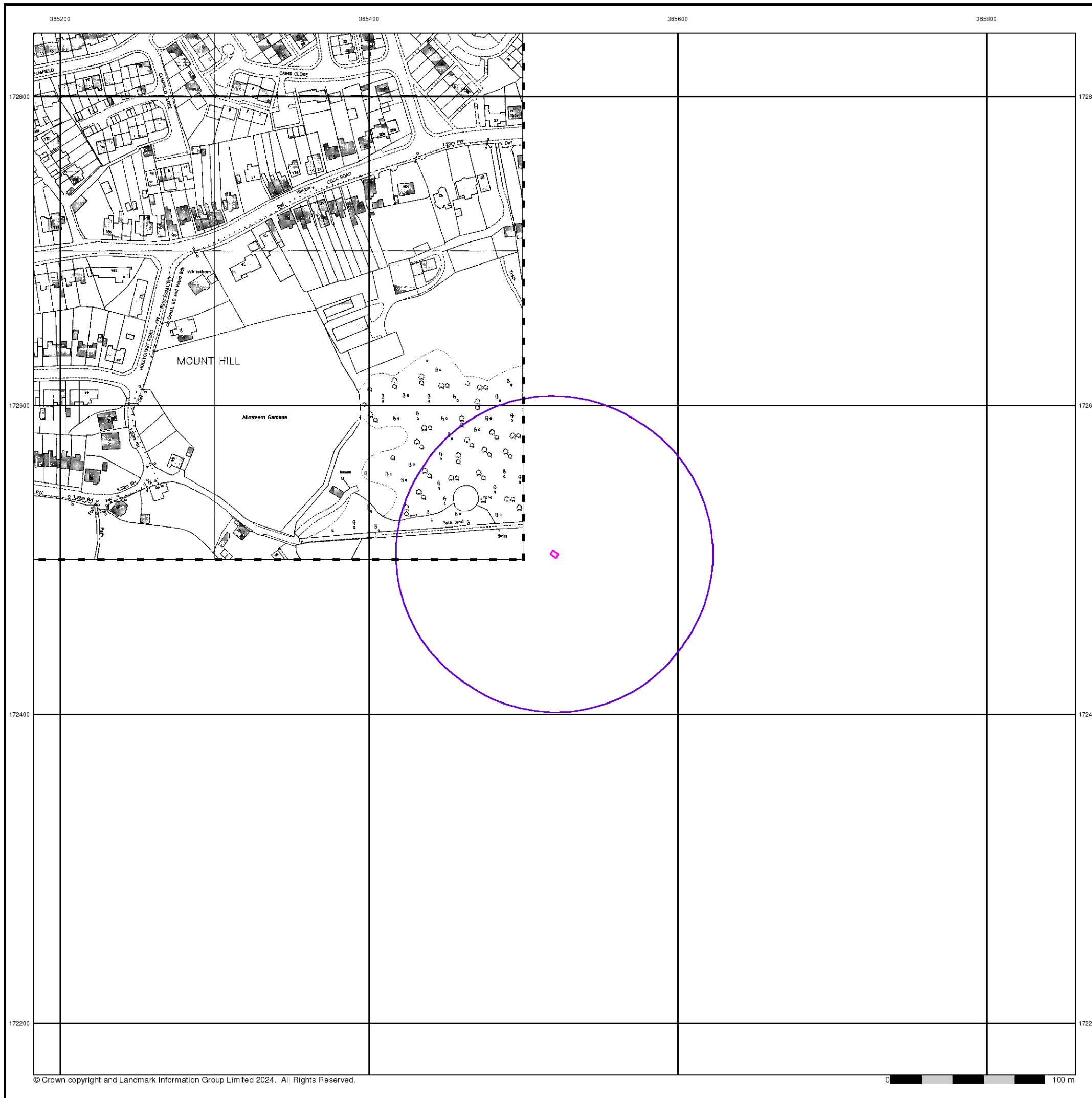


Order Details

Order Number: 333829943_1_1
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 Search Buffer (m): 100

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



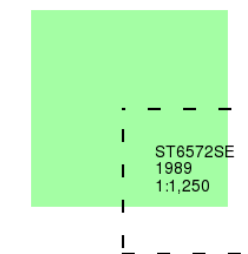
Additional SIMs

Published 1989

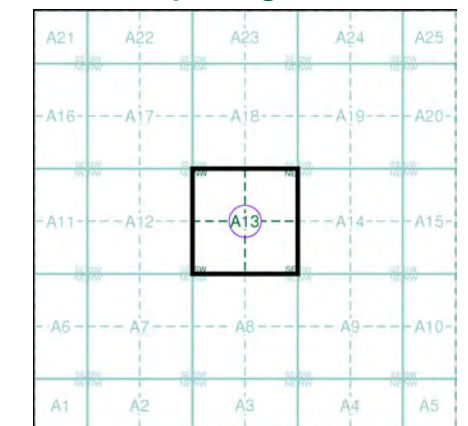
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13

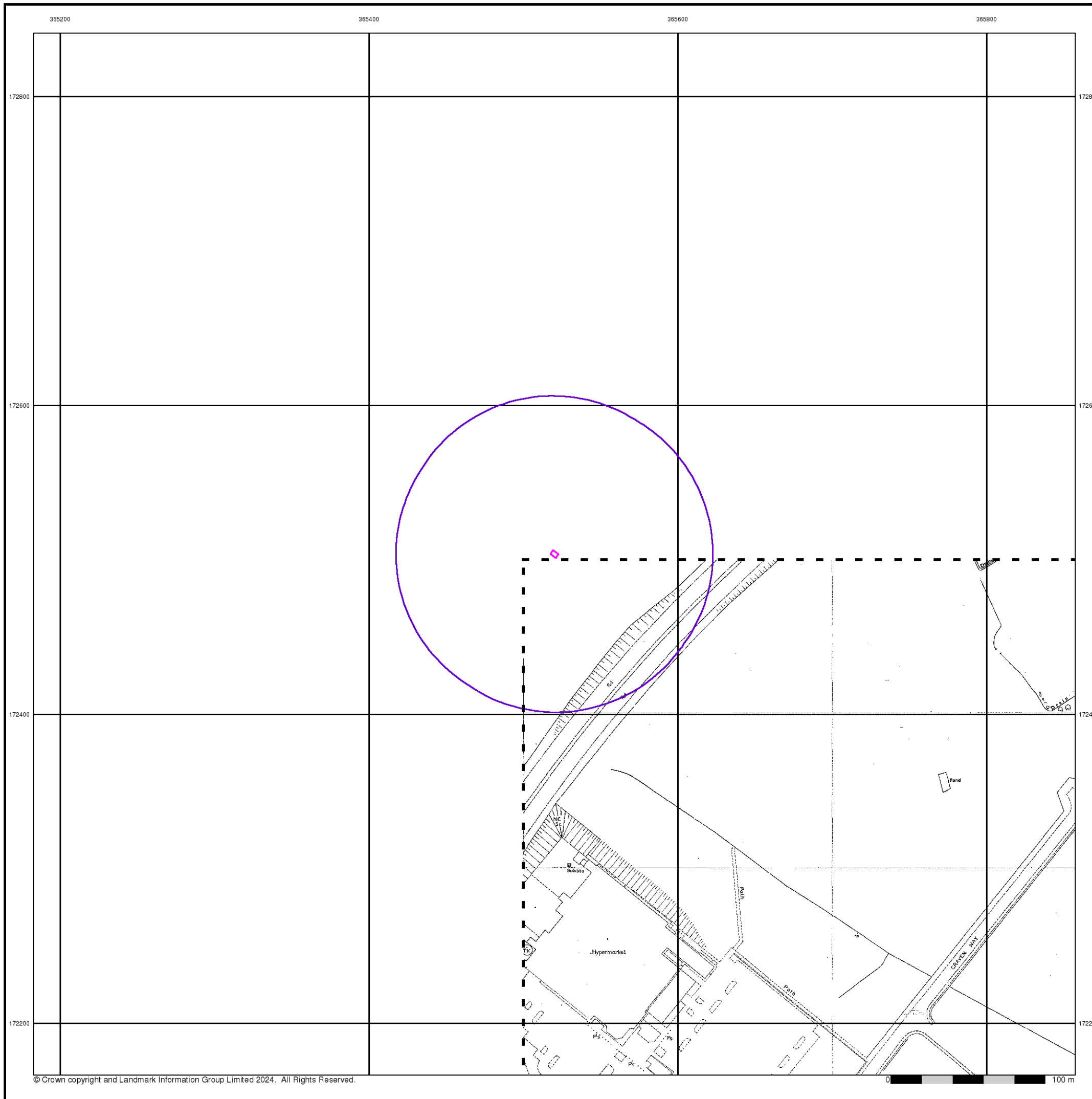


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Large-Scale National Grid Data

Published 1992

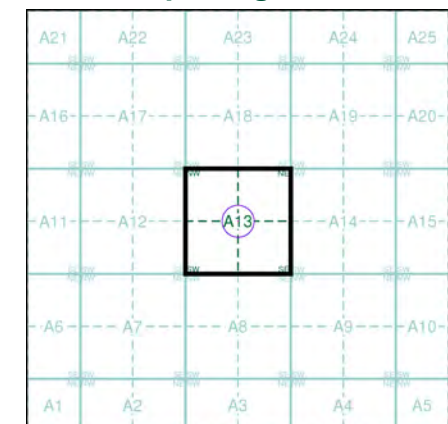
Source map scale - 1:1,250

'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)

ST6572NW	ST6572NE
1992	1992
1:1,250	1:1,250
ST6572SW	ST6572SE
1992	1992
1:1,250	1:1,250

Historical Map - Segment A13

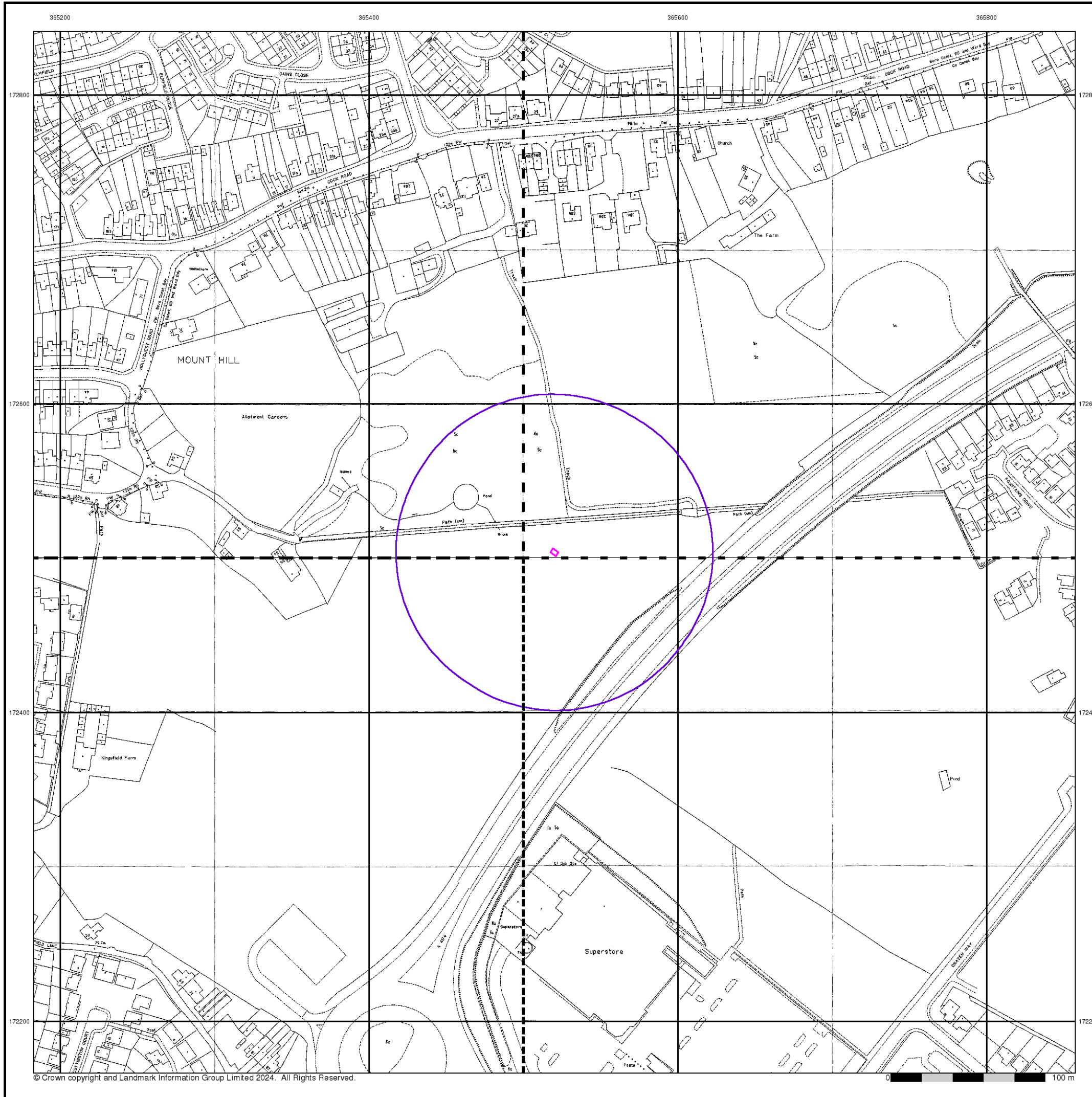


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



Large-Scale National Grid Data

Published 1993 - 1994

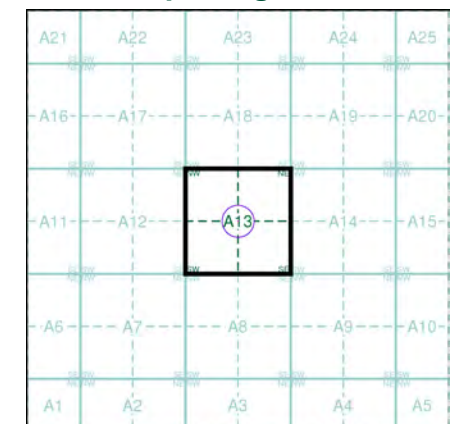
Source map scale - 1:1,250

'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)

ST6572NE	1993	1:1,250
ST6572SW	1994	1:1,250
ST6572SE	1993	1:1,250

Historical Map - Segment A13

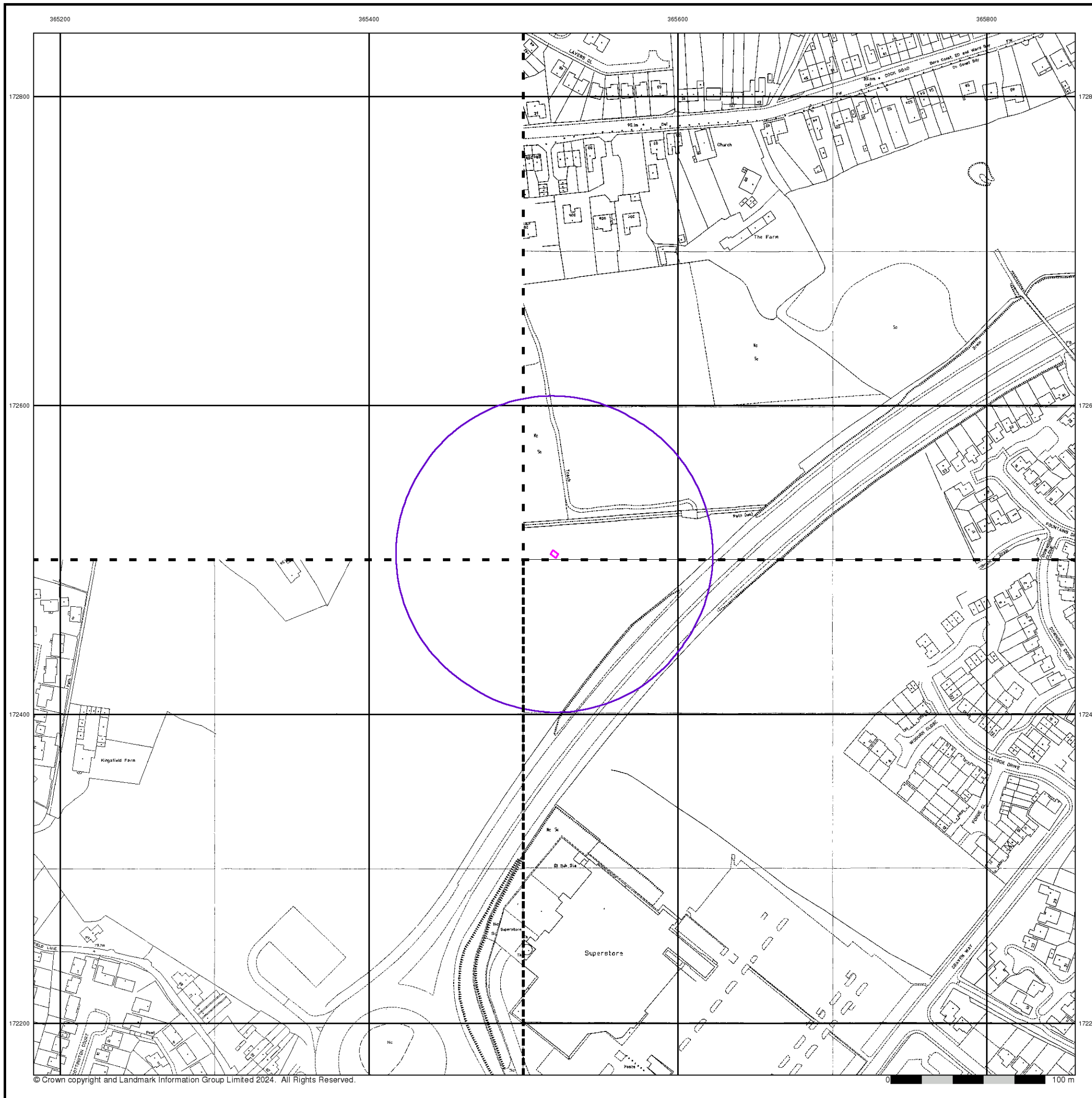


Order Details

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Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



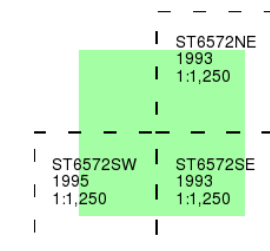
Large-Scale National Grid Data

Published 1993 - 1995

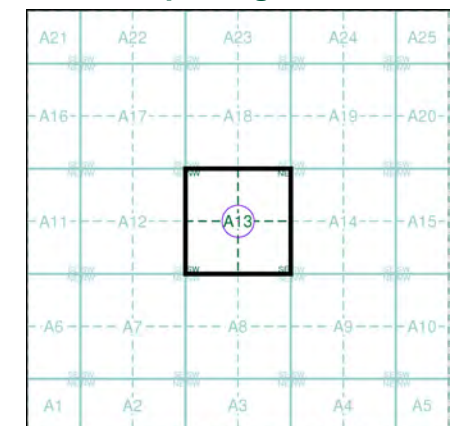
Source map scale - 1:1,250

'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 A13

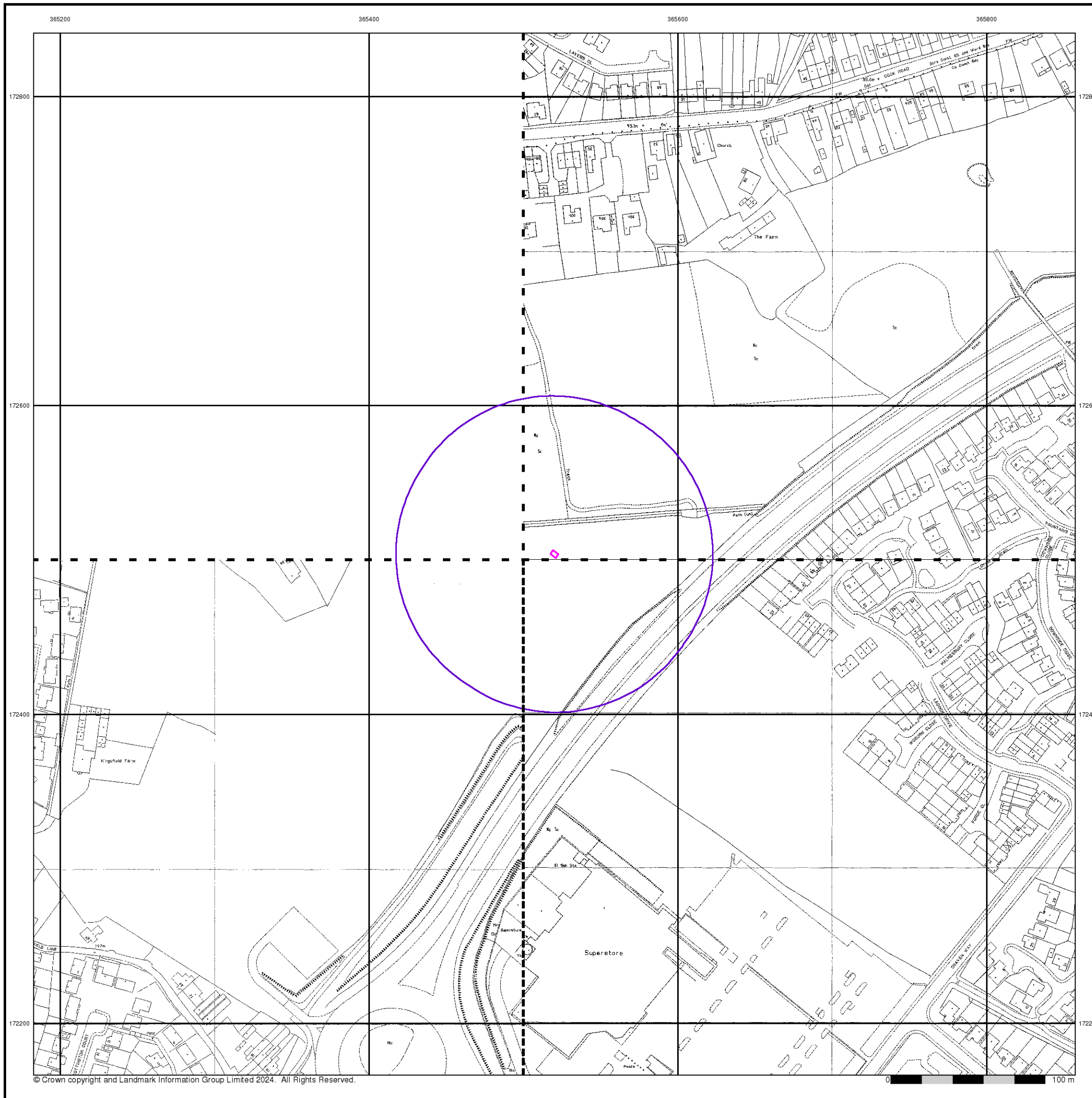


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Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



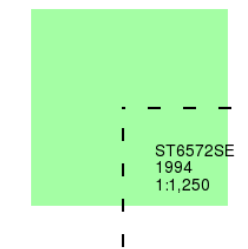
Large-Scale National Grid Data

Published 1994

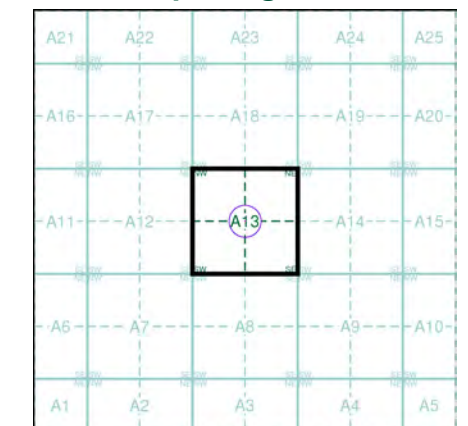
Source map scale - 1:1,250

'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 A13

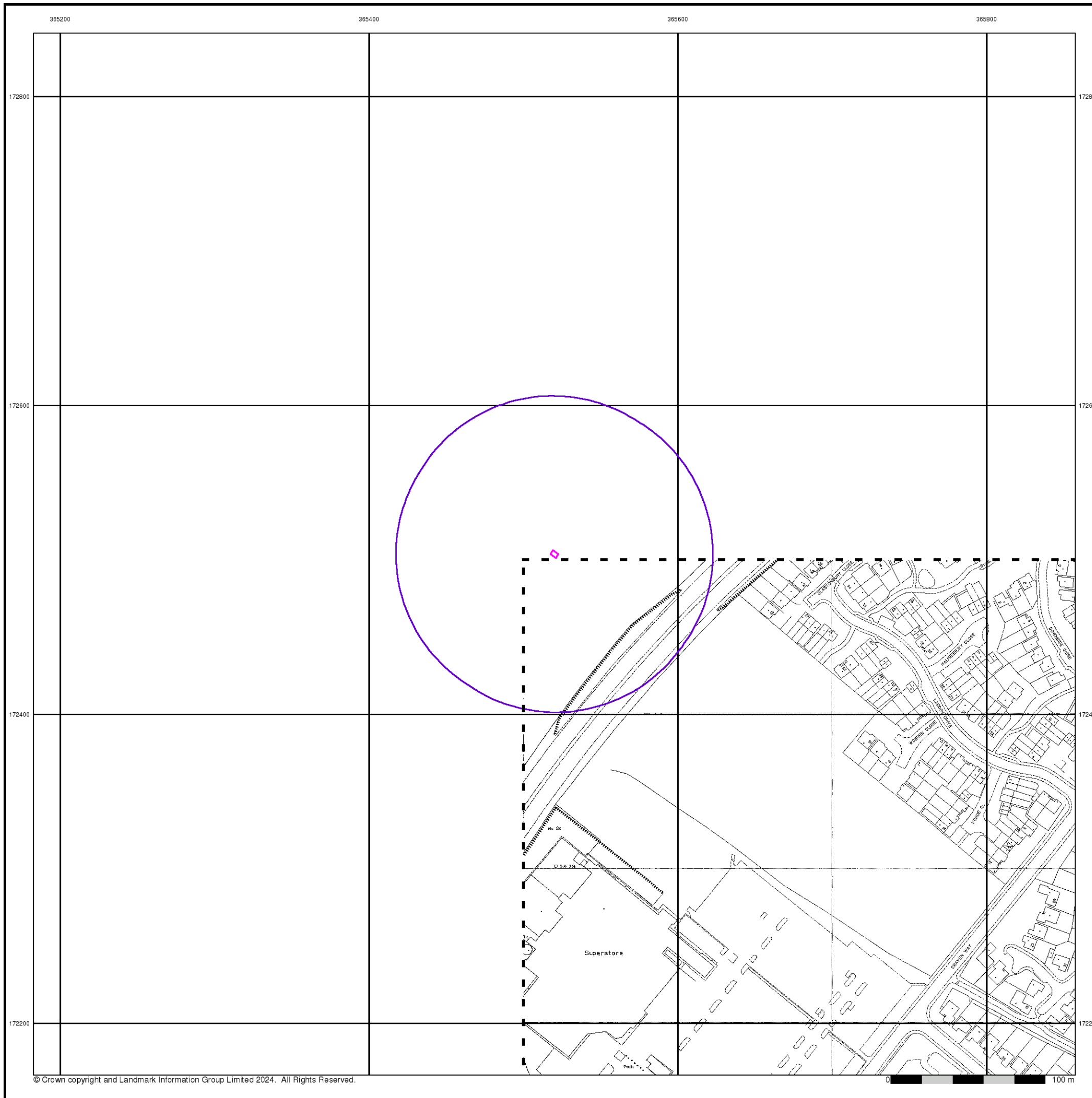


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Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



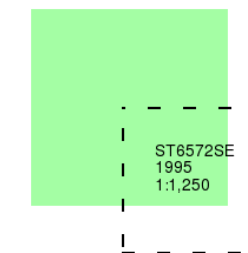
Large-Scale National Grid Data

Published 1995

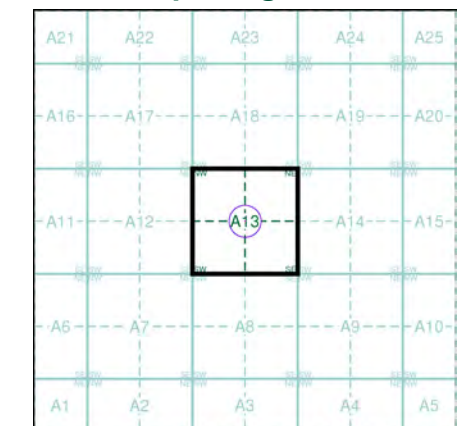
Source map scale - 1:1,250

'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 A13

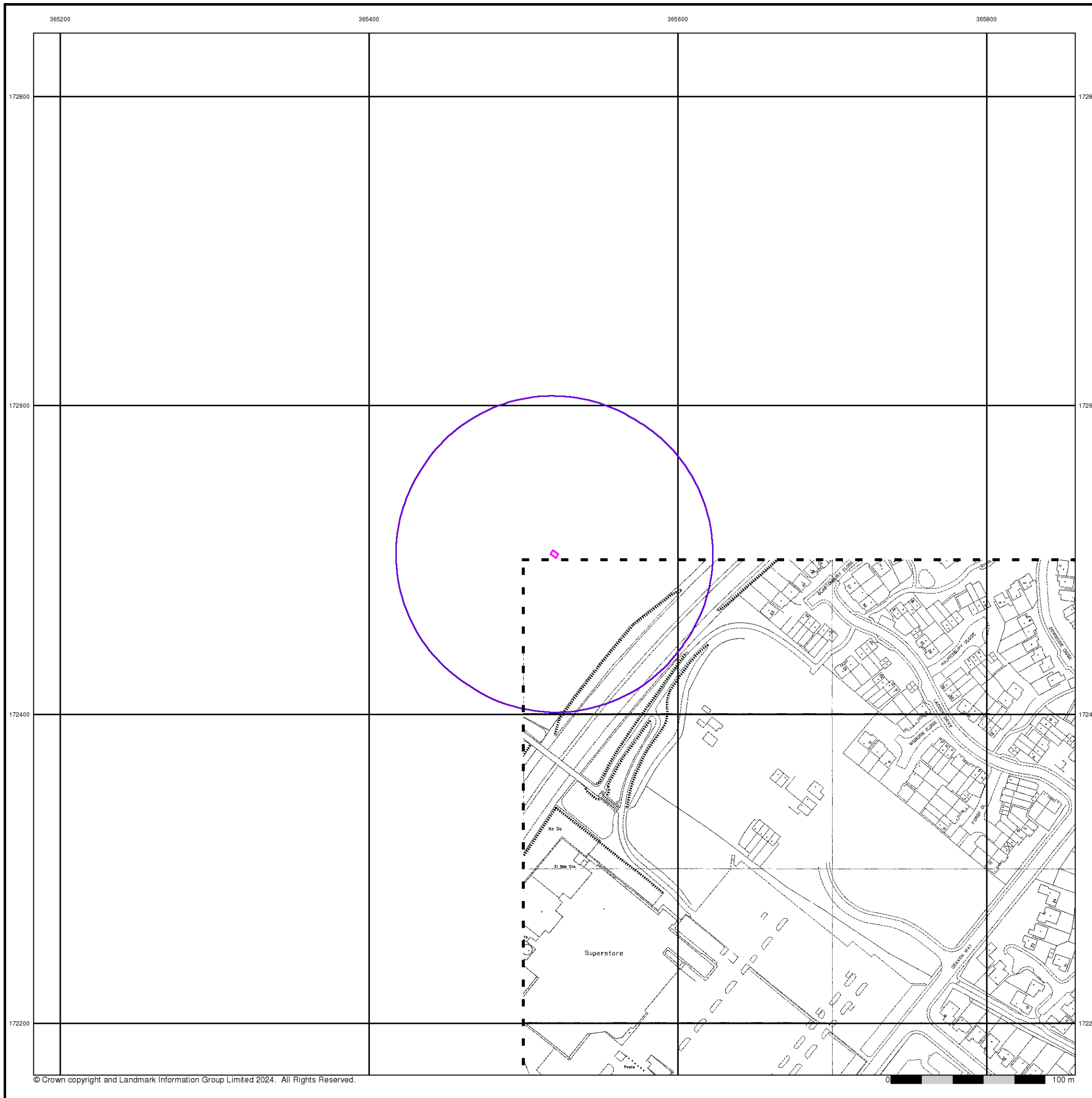


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Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



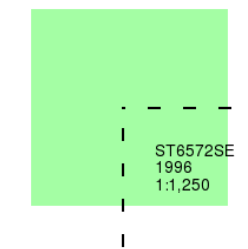
Large-Scale National Grid Data

Published 1996

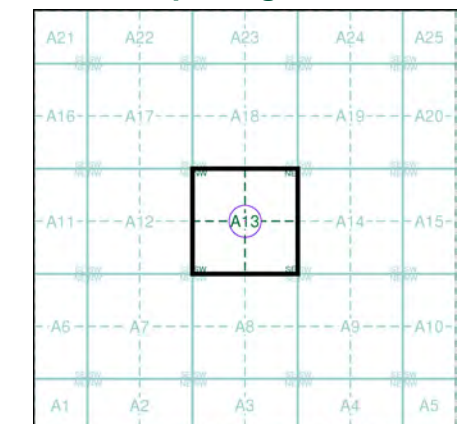
Source map scale - 1:1,250

'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 A13

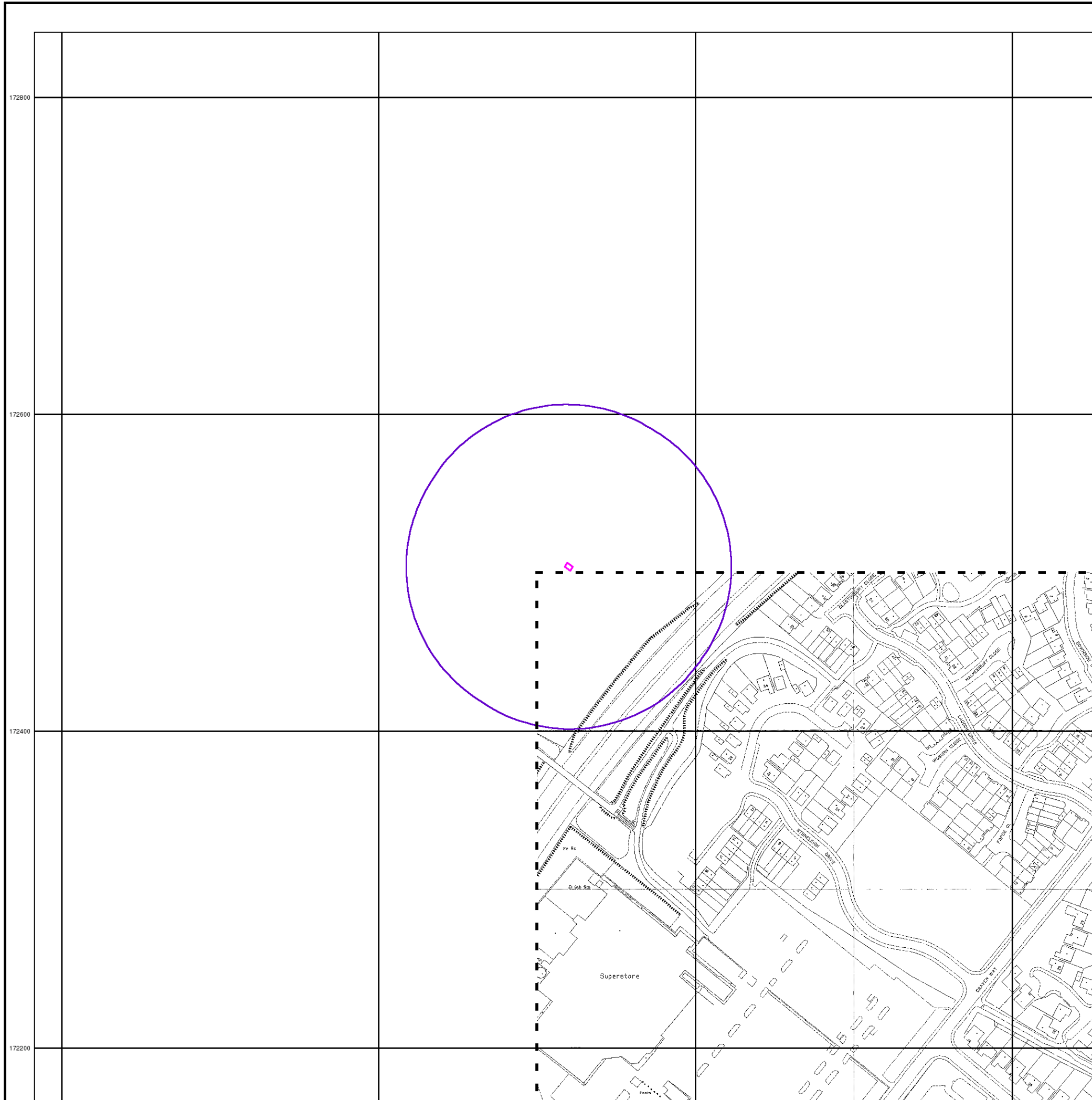


Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA



365200

365400

365600

365800

172800

172800

172600

172600

172400

172400

172200

172200



© Copyright Getmapping plc

0 100 m

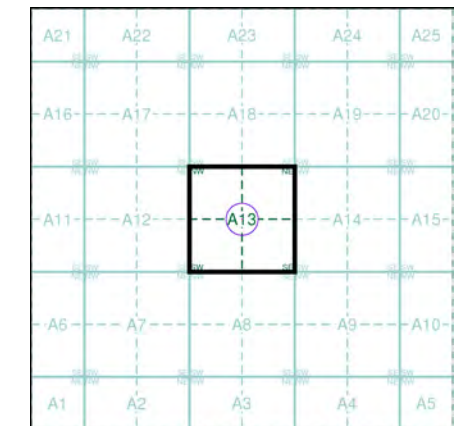


Historical Aerial Photography

Published 1999

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number: 333829943_1_1
 Customer Ref: JN1865-MH
 National Grid Reference: 365520, 172500
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 100

Site Details

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

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 R Parkes, ST Consult, Twigden Barns, Brixworth Road, Creaton, Northampton, NN6 8NN

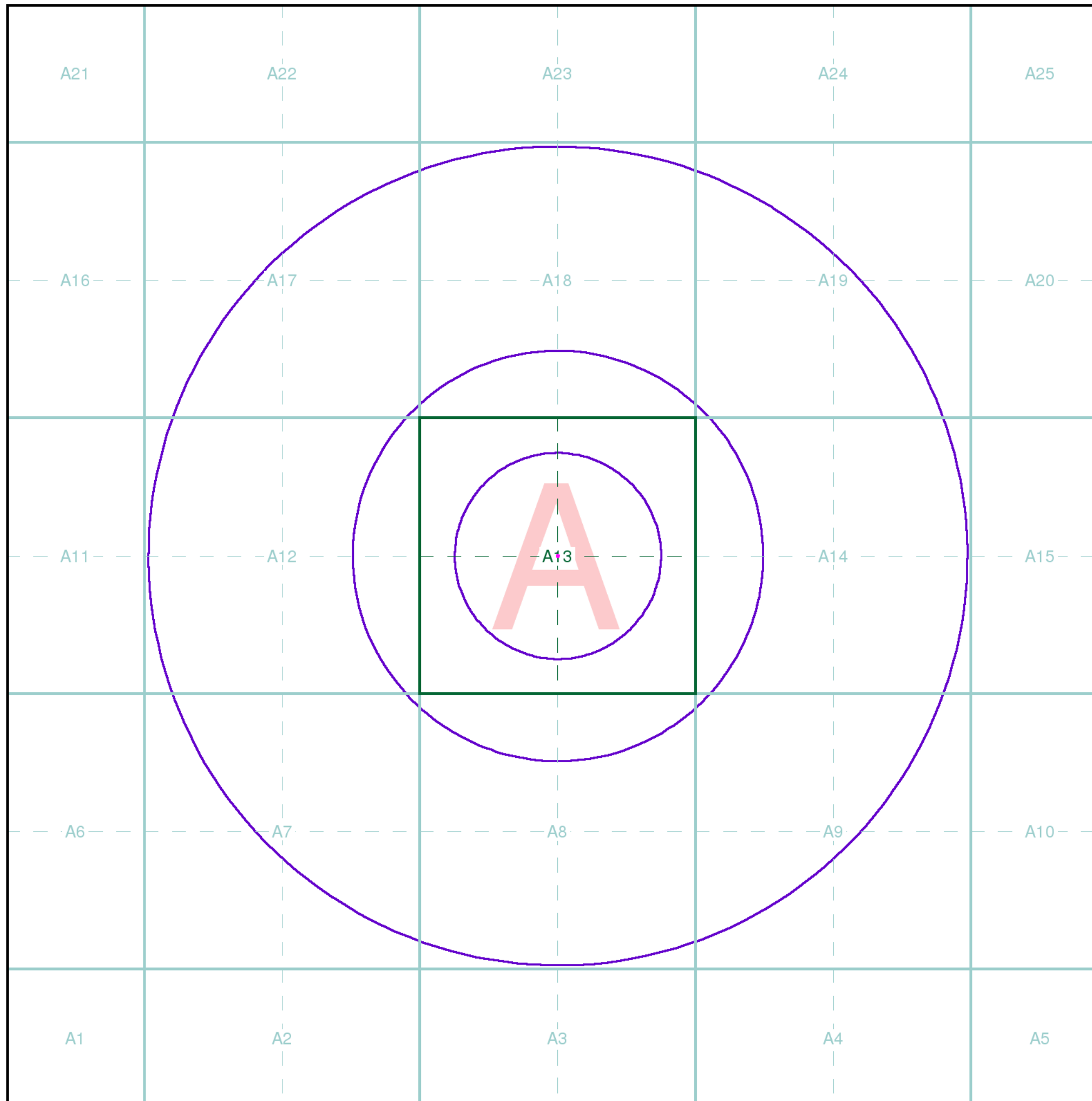
Order Details

Order Number: 333829943_1_1
Customer Ref: JN1865-MH
National Grid Reference: 365520, 172500
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Unit 5, Aspects Leisure Park, Kingswood, BRISTOL, BS15 9LA

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>





APPENDIX D

BGS Archive Boreholes

D



Barr's Court Pit

ST 67 SE / 9

ln 264

6539 7255

Site shown on published 6in map, with note:

'Surface level +280,
Coal (2½ ft) at 740'



Head Office
East Grinstead
Tel: 01342 333100
enquiries@southerntesting.co.uk

ST Consult Midlands
Northampton
Tel: 01604 500020
creaton@stconsult.co.uk

ST Consult Thames Valley
Hannington
Tel: 01635 800 950
hannington@stconsult.co.uk

ST Consult North West
Warrington
Tel: 01925 661 735
warrington@stconsult.co.uk



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