

Structural  
Civil  
Geo-Environmental



**consulting engineers**

**Proposed Aldi Store Extensions  
at  
Whins Road, Alloa, Clackmannanshire**

**Phase I Geo-environmental  
Assessment**

**for**

**Aldi Stores Limited**



Report Ref	Issue	Prepared by	Reviewed by	Date
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**Proposed Aldi Store Extensions at Whins Road, Alloa, Clackmannanshire  
Phase I Geo-Environmental Assessment**

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## EXECUTIVE SUMMARY

Land Use	<p>The site is irregular in shape and is located south east of Whins Road, which runs parallel to the northern western boundary of the site. The site appears to be generally flat with the exception of the dock leveller ramp and adjacent soft landscaping embankment formed due to the creation of the dock leveller.</p> <p>The site is bound by Whins Road to the north west with a soft landscaping encapsulated with a wooden knee rail along most of the boundary, with the exception of vehicular and pedestrian access points. The south west boundary is formed by a timber fence with open scrub beyond. The eastern boundary is also formed by a timber fence with woodland and the northern boundary is formed by railway arches.</p>
Site History	<p>From the earliest plans the site was occupied by Springfield Mills (Woollen) with associated water course (Brothie Burn) running roughly north east to south west through the site. There was also an associated 'drying green' in the south east of the site. By 1900 buildings covered two thirds of the site with only the eastern boundary and southern extent, which was identified as a 'nursery' between 1900 and the early 1970s, were left open. By the early 1950s a large proportion of the buildings on site had been cleared and only a few small buildings were present around the site. These were cleared by the late 1970s with the only discernible features on site being the exposed 'Brothie Burn' passing through the site within a culvert. The site remained open until 2006 when the existing store was constructed.</p> <p>From the earliest plans, the land surrounding the site has supported numerous industrial activities, which themselves have been surrounded by residential dwellings and local amenities. The area supported a brewery, corn and flour mill, a foundry, slaughterhouse, laundry and a public railway. Most of these potentially contaminative off site activities have been redeveloped with light commercial, retail and residential dwellings up to the early 2000s.</p>
Environmental Setting	<ul style="list-style-type: none"> <li>• BGS data records the site to primarily be underlain by Alluvium, which in turn is underlain by Raised Terrace Deposits, which both comprise of clay, silt, sand and gravel.</li> <li>• BGS data records the site as being underlain by the Scottish Lower Coal Measures comprising of sedimentary rock cycles (sandstone, mudstone and siltstone).</li> <li>• There is a geological fault located in the north of the site trending west to east, and intercepts the northern portion of the existing store.</li> <li>• The Brothie Burn is identified to culverted beneath the centre of the site from north east to south west beneath the existing store.</li> <li>• The entire site is identified to be in an area of low risk from flooding from river waters, with a 0.1% chance of flooding each year.</li> <li>• The site is recorded as being located within an area designated by the BGS as having the potential for groundwater flooding at the surface with the eastern boundary of the site being at risk of property situated below ground level flooding.</li> <li>• The bedrock strata are classed as a moderately permeable aquifer.</li> <li>• There are no landfill sites recorded within 250m of the site.</li> <li>• There is a single waste transfer sites recorded within 250m of the site.</li> <li>• There are 2no. discharge consents within 250m.</li> </ul> <p>The site is located within a Low Risk area from possible unexploded ordnance (UXO).</p>

Contamination	<p>Any on site contamination is most likely to be associated with the former woollen mill activities and any imported made ground present, however, as the site was redeveloped in the early 2000s, it is considered that any significant historic contamination would have been appropriately dealt with during the redevelopment to a satisfactory standard at the time.</p> <p>Based on the site history and surrounding land uses there is not considered to be a risk to human health or the water environment.</p>
Mining Risk Assessment	<p>The Coal Authority indicates that the site is not in an area at risk from past coal mining activities and no further assessment is required.</p>
Ground Gas	<p>No Radon protection measures are required for this site.</p> <p>In view of the preliminary assessment and existing data, there is considered to be a potential risk from ground gas to the development, therefore, it would be prudent to allow for CIRIA CS2 ground gas protection measures as a minimum until a ground investigation and ground gas monitoring has confirmed the existing regime.</p>
Foundations and Floor Slabs	<p>Based on the publicly available information and review of the foundation details for the existing store, which identified that the store has been constructed on a combination of vibro stone columns and deep mass fill foundation adjacent to the culverted watercourse, which passes under the store it is anticipated at this stage, that a piled foundation solution will be required for the proposed store extensions.</p> <p>At this stage, it is considered that suspended floor slabs will be required for the proposed extensions based on the likely requirement for a piled foundation solution, subject to a site investigation.</p>
Intrusive Investigations Rational	<p>An intrusive investigation will be required comprising:</p> <ul style="list-style-type: none"> <li>• Assessment of the type, nature and thicknesses of shallow soils by mini percussion drilling to allow in situ testing, the recovery of samples for logging and laboratory testing and installation of combined ground gas/groundwater monitoring wells.</li> <li>• If the mini percussion drilling confirms unsuitable founding strata at a shallow depth, cable percussion boreholes may be required for a piled foundation design.</li> <li>• Investigation of the proposed retaining structure formation and embankment to inform slope stability analysis, if necessary, by mini percussion boreholes in accessible areas.</li> <li>• Contamination testing of soils and groundwater with allowance for screening for metals and hydrocarbons (PAH's), speciated TPH and asbestos screening. PID screening of samples during sampling for potential hydrocarbon soil vapours.</li> <li>• Geotechnical testing to inform foundation design.</li> <li>• Ground gas monitoring on 6 occasions over a minimum period of 2 months in accordance with CIRIA C665.</li> </ul>
Further Works	<p>If cohesive soils are recorded in the ground investigation a tree survey will be required to be undertaken on and within the vicinity of the site (approximately 30m) to enable a comprehensive assessment of the required foundation design to be determined.</p>



## 1 INTRODUCTION

1.1 3e Consulting Engineers Ltd (3e) were commissioned by Aldi Stores Limited to carry out a Phase I Geo-Environmental Assessment for proposed store extensions at the existing Aldi store on Whins Road, Alloa, Clackmannanshire.

1.2 This report highlights ground related environmental and geotechnical considerations in relation to the proposed development, which includes the construction of extensions to the existing store, together with changes to the existing car park and soft landscaping, details of which are provided on the proposed site plan included in **Appendix A**.

1.3 The objectives of this assessment were:

- To establish the historical development of the site and surrounding area.
- To establish the environmental setting of the site.
- To assess the potential impact of subsurface mining on the development.
- To determine if historical or current activities could give rise to significant ground or groundwater contamination.
- To assess the potential for hazardous ground gas.
- To determine the potential risks posed by contamination arising from historical or current activities on or in the vicinity of the site.

1.4 To this end the study has included an inspection of historical maps, a review of environmental data held on publicly available registers and other sources as indicated within the report.

1.5 This report presents the factual information available during this appraisal, interpretation of the data obtained and recommendations relevant to the scope of works outlined above. It has been assumed in the production of this report that the site is to have a continued commercial end use.

1.6 The comments and opinions presented in this report are based on the findings of the available desk study investigation carried out by 3e. Responsibility cannot be accepted for any conditions not revealed by this desk study and which have not been taken into account by this report.



1.7 This report has been prepared for the sole use of Aldi Stores Limited. No other third party may rely upon or reproduce the contents of this report without the written approval of 3e. If any unauthorised third party comes into possession of this report, they rely on it entirely at their own risk and 3e do not owe them any Duty of Care or Skill.



## 2 THE SITE

### Location and Description

2.1 The site, centred on National Grid Reference 289100, 693070, approximately 0.5km north east of Alloa town centre. A site location plan is included as **Drawing G0001**.

2.2 The site is irregular in shape and is located south east of Whins Road, which runs parallel to the northern western boundary of the site. The site appears to be generally flat with the exception of the dock leveller ramp and adjacent soft landscaping embankment formed due to the creation of the dock leveller. The site is bound by Whins Road to the north west with a soft landscaping encapsulated with a wooden knee rail along most of the boundary with the exception of vehicular and pedestrian access points. The south west boundary is formed by a timber fence with open scrub beyond. The eastern boundary is also formed by a timber fence with woods and the northern boundary is formed by railway arches.

2.3 The adjacent land use is as follows:

- North: Public railway line with an army cadet centre and residential housing beyond.
- South: Woodland with residential dwellings and open land beyond.
- East: Woodland with residential dwellings beyond.
- West: Whins Road with a supermarket and train station beyond.



### **3 SITE HISTORY**

3.1 In order to establish the site history, an inspection was made of historical maps, dating between 1865 and 2021. A summary of the information is provided below and copies of the maps are included as **Appendix B**. It is not the intention of this report to describe in detail all of the changes that have occurred on or adjacent to the site, only those pertinent to the proposed development.

3.2 From the earliest plans the site was occupied by Springfield Mills (Woollen) with associated water course (Brothie Burn) running roughly north east to south west through the site. There was also an associated 'drying green' in the south east of the site. By 1900 buildings covered two thirds of the site with only the eastern boundary and southern extent, which was identified as a 'nursery' between 1900 and the early 1970s, were left open. By the early 1950s a large proportion of the buildings on site had been cleared and only a few small buildings were present around the site. These were cleared by the late 1970s with the only discernible features on site being the exposed 'Brothie Burn' passing through the site within a culvert. The site remained open until 2006 when the existing store was constructed.

3.3 From the earliest plans, the land surrounding the site has supported numerous industrial activities which themselves have been surrounded by residential dwellings and local amenities. The area supported a brewery, corn and flour mill, a foundry, slaughterhouse, laundry and a public railway. Most of these potentially contaminative off site activities have been redeveloped with light commercial, retail and residential dwellings up to the early 2000s.



## 4 ENVIRONMENTAL SETTING

4.1 This section summarises the publicly available information collated within an Envirocheck search, included as **Appendix C**, together with other sources where indicated.

### Geology and Mining

4.2 A summary of the site geology, based on available published information, is provided below.

<b>Sources of Information</b>	<p>British Geological Survey (BGS) Alloa, Sheet 39E (Scotland), 1:50,000 scale, Bedrock and Drift Deposits.</p> <p>BGS Online Map Based Index (GeoIndex &amp; Geology of Britain).</p> <p>Coal Authority (CA) Consultants Coal Mining Report Ref: 51002680588001, included as <b>Appendix D</b>.</p> <p>CA Interactive Map Viewer.</p>
<b>Made Ground</b>	<p>Geological plans do not record made ground on the site, however, given the site history, made ground is very likely to be present on the site.</p>
<b>Superficial Deposits (Drift)</b>	<p>BGS data records the site to primarily be underlain by Alluvium, which comprises of clay, silt, sand and gravel. This is likely to be underlain by the Raised Terrace Deposits also comprising of clay, silt, sand and gravel.</p>
<b>Bedrock Geology (Solid)</b>	<p>BGS data records the site as being underlain by the Scottish Lower Coal Measures comprising of sedimentary rock cycles (sandstone, mudstone and siltstone).</p> <p>There is a geological fault is located in the north of the site trending west to east, and intercepts the northern portion of the existing store.</p>
<b>Coal Mining</b>	<p>The CA Consultants Coal Mining Report indicates the site to not be at risk from recorded past mining, unrecorded shallow workings and there are no spine roadways, mine entries, nor opencast sites within 500m of the boundary.</p> <p>The CA Interactive Map Viewer indicates that the site is not in a 'High Risk Development Area' for coal mining activities.</p>
<b>Quarrying</b>	<p>NR within 250m.</p>

### Hydrology and Hydrogeology

4.3 A summary of available information pertaining to hydrology, hydrogeology, flood risk potential, water abstractions, discharge consents and pollution incidents to the water environment is provided as follows.

<b>Watercourses</b>	The Brothie Burn is identified to culverted beneath the centre of the site from north east to south west.
<b>Flood Risk</b>	The entire site is identified to be in an area of low risk from flooding from river waters, with a 0.1% chance of flooding each year. A separate Flood Risk Assessment will be required for the proposed development.
<b>BGS Groundwater Flooding Susceptibility</b>	The site is recorded as being located within an area designated by the BGS as having the potential for groundwater flooding at the surface with the eastern boundary of the site being at risk of property situated below ground level flooding.  The site is also identified to have high, medium and low likelihoods of surface water flooding by SEPA.
<b>Groundwater Classification</b>	Bedrock Geology: The site is recorded to be underlain by a Moderately Permeable Aquifer – Fractured and potentially fractured rocks, which do not have a high primary permeability.
<b>Source Protection Zones</b>	NR within 1km.
<b>Licensed Water Abstractions</b>	NR within 1km.
<b>Wells</b>	NR within 250m, however, the adjacent brewery is likely to have abstractions from groundwater via a series of wells.
<b>Discharge Consents</b>	There are 2no. discharge consents for storm water overflow and surface water (Water Authority) discharges between 210 and 243m south west of the site.
<b>Pollution Incidents</b>	NR within 1km.

NR – None Recorded

## Landfill Sites and Waste Management

4.4 A summary of information regarding landfill sites (historical or current) and waste management facilities is provided as follows.

<b>Local Authority Recorded Landfills</b>	NR within 250m.
<b>BGS / SEPA Recorded Landfills</b>	NR within 250m.
<b>Other Waste Management Facilities</b>	There is a single registered waste transfer site within 250m of the site. This site was located some 234m east of the site and accepted hydrocarbons, cleaning compounds, solvents, kerosene and mixed organic compounds.

## Pollution Controls and Industrial Land Use

4.5 A summary of pollution control records and potentially polluting activities (fuel stations) is provided as follows.

<b>Integrated Pollution Controls (IPC)</b>	NR within 250m.
<b>Integrated Pollution Prevention and Control (IPPC)</b>	NR within 250m.
<b>Local Authority Pollution Prevention and Controls (LAPPC)</b>	NR within 250m.
<b>Petrol Filling Stations</b>	There are 2no. petrol filling stations located 190m west and 250m south west of the site.

## Unexploded Ordnance (UXO)

4.6 As part of this report a UXO bomb risk map has been obtained from Zetica UXO, a copy of which is included in **Appendix E**. This map indicates the potential for unexploded bombs (UXB) to be present as a result of World War Two (WWII) bombing.

4.7 In summary, the regional unexploded bomb risk map obtained from Zetica records the site as being located within a **Low Risk** area from possible unexploded ordnance (UXO) resulting from WWII bombing (i.e. areas as indicated as having 15 bombs per 1000acre or less), indicating that works can progress without the requirement for special precautions in this regard.

## Radon

4.8 Inspection of the HPA publication CRCE-023 (July 2011), "Indicative Atlas of Radon in Scotland" indicates that the site lies in a lower probability radon area with a risk of <1%. In addition, Public Health England (PHE) online interactive radon map also indicates the site to have <1% risk from Radon.

4.9 The site is not considered to be at risk from Radon gas, and therefore, no Radon protection measures are required.



## **Other**

4.10 There are 6no. active Contemporary Trade Directory Entries recorded within 250m. These include petrol filling stations, tyre dealers, home furnishing manufacturers, a blacksmiths, pet and animal feed retailer and hardware store.

## 5 CONCEPTUAL SITE MODEL

5.1 Based on the available desk study information, a conceptual site model (CSM) has been developed for the proposed future land use (commercial). This summarises the understanding of the existing site and its historical development, the site geology, the potential contaminant sources, transport pathways and receptors in order to assess potential pollutant linkages. In assessing the potential contaminants present at the site, reference has also been made to the relevant sections of Environment Agency (EA) Land Contamination Risk Management (LCRM) guidance and any other relevant supporting documentation.

5.2 The proposed new extensions to the existing Aldi store situated at Whins Road, Alloa, as shown on the proposed site plan included in **Appendix A**. Based on the available information, a summary of the potential contamination sources, pathways and receptors is provided below.

### Sources of Contamination

- Contamination associated with any imported made ground/fill below the site.
- Potential for residual contamination associated with on woollen mill activities.
- Potential for hazardous ground gases from on and off-site sources; with potential sources identified for this site including made ground on site and off site.

### Potential Pollution Pathways

- Humans – direct contact, soil ingestion and dust inhalation.
- Moderately Permeable Aquifer – leaching and vertical migration of contamination.
- Lateral migration into the on site culverted watercourse (Brothie Burn) Low risk considered due to existing redevelopment being relatively recent and any significant contamination should have been addressed as part of the redevelopment.
- Vertical and lateral migration, ingress and accumulation of ground gases into buildings and service entries (manholes).
- Direct contact of aggressive soils with foundations, floor slabs and water pipes.

## Receptors

- Human Health (site end users).
- Human Health (construction workers).
- The Water Environment (Moderately Permeable Aquifer).
- On site culverted watercourse.
- Buildings, foundations and floor slabs.

## Pollutant Linkage Assessment

5.3 A qualitative risk assessment has been made of the likelihood of any pollutant linkage operating and its potential significance, as summarised in the table below:

Contamination Source	Pathway	Hazard	Potential Receptors	Linkage Complete
Contaminants associated with potential imported made ground and residual contamination associated with the former woollen mill activities.	Direct contact, ingestion, dust inhalation	Human health risk	Site construction workers	Unlikely, given the site was redevelopment in the late 2000s, however, any risk can be mitigated by the use of appropriate PPE and limited exposure.
	Direct contact, ingestion, dust inhalation	Human health risk	Site end users	Unlikely, given the site was redevelopment in the late 2000s and any exposure pathways will not be available in areas of proposed hard cover or capping of soft landscaping.
	Lateral and vertical migration	Pollution of the water environment	Moderately permeable aquifer	Unlikely, although any exposure pathways will be reduced in areas of existing and proposed hard cover and positive site drainage.
	Lateral and vertical migration	Pollution of the water environment	On site culverted watercourse	Unlikely, given the site was redevelopment in the late 2000s and contamination sources will have been removed. Exposure pathways will also be reduced in areas of existing and proposed hard cover.

<b>Contamination Source</b>	<b>Pathway</b>	<b>Hazard</b>	<b>Potential Receptors</b>	<b>Linkage Complete</b>
	Direct contact	Presence of aggressive soils	Foundations, floor slabs and water pipes	Unlikely, although any latent risk can be negated by the adoption of appropriate mitigation measures (i.e. barrier pipe) if a new supply is proposed.
Contaminants associated with off-site sources	Lateral migration	Human health risk	Site end users	Limited risk associated with the potential for contamination migration from historical and adjacent site usages given the redevelopment of historical contaminative sources.
Ground Gas	Vertical migration into buildings or confined spaces	Human health risk Fire risk	Site end users, construction workers and property	Potentially the primary potential sources identified for this site are alluvium and imported made ground.

## 6 ENVIRONMENTAL RISK ASSESSMENT

6.1 The potential environmental risk has been assessed based on the 'source-pathway-receptor' pollutant linkages identified in the Conceptual Site Model, which requires that for a liability to arise each stage of the pollutant linkage must be present. References to risk classifications are made according to the following definitions:

- **Low risk** – it is unlikely that an issue will arise with respect to causing significant harm to human health or the water environment.
- **Moderate risk** – it is possible that an issue could arise with respect to causing significant harm to human health or the water environment.
- **High risk** – it is likely that an issue will arise with respect to causing significant harm to human health or the water environment.

6.2 Having evaluated the information gathered during this study and described in the previous sections the following risk assessment has been produced.

ENVIRONMENTAL RISK ASSESSMENT		
	Risk rating	Reason
<b>Contamination potential for:</b>		
On-site contamination	Low	Any on site contamination is most likely to be associated with the former woollen mill activities and any imported made ground present. However, as the site was redeveloped in the early 2000s, it is considered likely that any significant historic contamination would have been appropriately dealt with during the redevelopment to a satisfactory standard at the time.
Contaminants migrating off site	Low	It is considered that any significant historic contamination would have been appropriately dealt with during the redevelopment to a satisfactory standard at the time and therefore the site is no longer likely to pose a risk to off site sources.
Contaminants migrating onto site	Low	Low risk considered at this stage due to lack of significant contaminative site uses off site which have not been redeveloped in recent years.
Other environmental issues giving rise to concern	Low	None identified.
<b>OVERALL RISK</b>	<b>Low</b>	



## Ground Gas Risk Assessment

6.3 Based on the above information gained through the Envirocheck Report and other sources referenced in the previous sections, the following summarises the gas risk for the site. In accordance with current guidance (CIRIA C665), the gas generation potential for each source has been individually assessed, with references to potential gassing risk made according to the following definitions: Negligible, Very Low, Low, Moderate, High and Very High.

Potential Gas Source	Hazard	Generation Potential	Justification
Made ground (CH <sub>4</sub> , CO <sub>2</sub> )	Humans: health risk Buildings: explosion	Low	Primarily associated with potential for imported made ground / fill on the site and likely off site made ground.
Alluvium drift deposits (CH <sub>4</sub> , CO <sub>2</sub> )	Humans: health risk Buildings: explosion	Moderate	The site is underlain by Alluvium and Raised Terrace Deposits, which are considered to have the potential for organic matter, which may pose a risk.
Off-Site Sources (CH <sub>4</sub> , CO <sub>2</sub> )	Humans: health risk Buildings: explosion	N/A	There are no recorded landfill sites within 250m of the site.
Coal and historical mining	Humans: health risk Buildings: explosion	N/A	Although the site is within an area requiring a coal mining report there is not considered to be any shallow or deep recorded or unrecorded mining beneath or within the immediate proximity of the site.
Radon	Humans: health risk	N/A	The property is in an area where no radon protection measures are required (<1 of buildings are estimated to be at or above the Action Level).
<b>Overall Risk</b>	<b>Low to Moderate</b>		

6.4 The site is within an area not requiring Radon protection measures. The site is underlain by Alluvium and Raised Terrace Deposits, which may contain organic soils, which could be a source of ground gas together with made ground soils of unknown composition on and off site, there confirmatory ground gas monitoring will be required.

## **7 GEOTECHNICAL CONSIDERATIONS**

7.1 The following geotechnical considerations are given as preliminary guidelines only based on the available data on the ground conditions. Consequently, the following should not be taken as design criteria without further geotechnical data obtained from a suitably designed ground investigation.

### **Mining**

7.2 The CA indicates that the site is not in an area at risk from coal mining activities and no further assessment is required.

### **Foundations**

7.3 The site is indicated to be underlain by Alluvium, which in turn are underlain by Raised Terrace Deposits, which are both of an unknown strength and thickness. Underlying these soils are likely to be residual clay or sand overlying competent bedrock strata.

7.4 Based on the publicly available information and review of the foundation details for the existing store, which identified that the store has been constructed on a combination of vibro stone columns and deep mass fill foundation adjacent to the culverted watercourse, which passes under the store it is anticipated that a piled foundation solution will be required for the proposed store extensions.

### **Floor Slabs**

7.5 At this stage, it is considered that suspended floor slabs will be required for the proposed extensions based on the likely requirement, at this stage, for a piled foundation solution, subject to a site investigation.

### **Gas Protection Measures**

7.6 No Radon protection measures are required for this site.

7.7 In view of the preliminary assessment and existing data, there is considered to be a potential risk from ground gas to the development, therefore, it would be prudent to allow for



CIRIA CS2 ground gas protection measures as a minimum, until a ground investigation and ground gas monitoring has confirmed the existing regime.

## **8 RATIONALE AND METHOD FOR INTRUSIVE INVESTIGATION**

8.1 Following a review of the existing ground investigation information, geo-environmental investigation for a proposed Aldi store extensions has been designed by 3e and the methods employed together with the principal concerns regarding the development of the site are summarised as follows. The investigation strategy is in accordance with the current guidance (BS10175:2011+A2:2017) in view to the site history and past investigation results on the site.

- Assessment of the type, nature and thicknesses of shallow soils by mini percussion drilling to allow in situ testing, the recovery of samples for logging and laboratory testing and installation of combined ground gas/groundwater monitoring wells (if putrescible made ground is identified in the ground investigation).
- If the mini percussion drilling confirms unsuitable founding strata at a shallow depth, cable percussion boreholes may be required for a piled foundation design.
- Investigation of the proposed retaining structure formation and embankment to inform slope stability analysis, if necessary, by mini percussion boreholes in accessible areas.
- Chemical laboratory testing of soil with allowance for screening for metals, hydrocarbons (PAH's), speciated TPH and asbestos screening. PID screening of samples during sampling for potential hydrocarbon soil vapours.
- Geotechnical testing to inform foundation design.
- Ground gas monitoring on 6 occasions in 2 months in accordance with CIRIA C665.

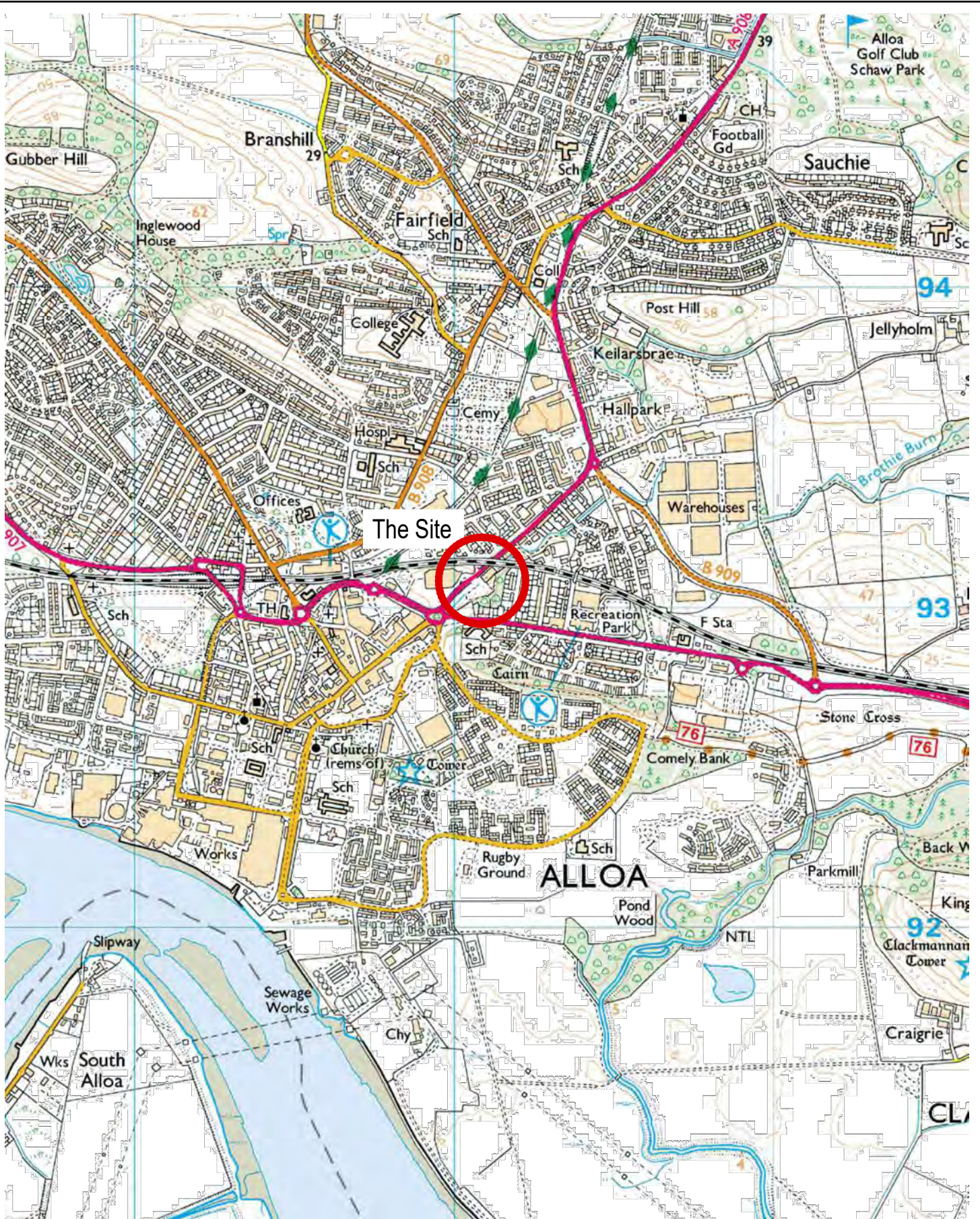


## **9 FURTHER INVESTIGATIONS**

9.1 An intrusive investigation will be required in accordance with the rationale outlined in Section 8.

9.2 If cohesive soils are recorded in the ground investigation a tree survey will be required to be undertaken on and within the vicinity of the site (approximately 30m) to enable a comprehensive assessment of the required foundation design to be determined.

# **Drawings**



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Project Whins Road, Alloa Aldi Stores Ltd.			
Title Site Location Plan			
Scale 1:25,000	Drawn AC	Checked AB	Date Nov '21
Job No. P17-107	Drawing No.	G0001	Rev 0

# **Appendix A**

Proposed Site  
Layout



REV	DATE	DESCRIPTION	DRW	CHK
P01	2021-05-07	FIRST ISSUE	NM	LC/ACG
P02	2021-05-27	REFRIGERATION PLANT KIT UPDATED.	NM	LC/ACG
P03	2021-08-03	TREE SURVEY OVERLAID AND NOTES UPDATED.	NM	LC/ACG
P04	2021-08-24	HATCHED AREAS ADDED TO CLARIFY EXTENSION AND DEMOLITION.	NM	LC/ACG
P05	2021-09-15	NOTES CLARIFIED.	NM	LC/ACG
P06	2021-10-11	CRIBLOCK WALL EXTENT REVISED. TREE REMOVAL/ ADDITIONS UPDATED.	NM	EA/ACG

- KEY:**
- NEW TARMACADAM FOOTPATH (PEDESTRIAN SPECIFICATION), WITH BUILD-UPS AS PER CIVIL ENGINEER'S DRAWINGS AND DETAILS.
  - 200x100x60mm - NEW TOBERMORE HYDROPAVE PEDESTA PERMEABLE PAVING WITH GRANULAR STONE SUB BASE, FALLS TO COLLECTOR DRAIN. MAIN COLOUR - "CHARCOAL", BAY DELINEATION TO BE WHITE LINED.

**NOTES:**

UNLESS OTHERWISE NOTED, ALL NEW KERBS TO THE CAR PARK AREA TO BE MARSHALLS REF: 255 x 125mm HB2 PRECAST CONCRETE KERBS. TO BE PROVIDED TO PERIMETER OF ALL PAVED AREAS, ACCESS ROADS, SERVICE RAMP ETC. INTERNAL ANGLES TO KERB RUNS ARE TO BE MARSHALLS REF: 125 x 255 HB1A PRECAST CONCRETE INTERNAL ANGLES. EXTERNAL ANGLES TO KERB RUNS ARE TO BE MARSHALLS REF: 305 x 255 QHB PRECAST CONCRETE QUADRANTS. DROPPED KERBS AT PEDESTRIAN CROSSING AREAS ARE TO BE FORMED WITH MARSHALLS DROPPERS REF: 125 x 255 HB TO BN WITH 125 x 150 BN KERBS.

ALL NEW CAR PARK CROSSING POINTS WITHIN THE FOOTPATHS WHERE DROPPED KERBS ARE INSTALLED ARE TO INCORPORATE TACTILE PAVING USING MARSHALLS PAVING HAZARD WARNING (CORDUROY) PRECAST CONCRETE TACTILE SLABS, SIZE 400 x 400 x 50, COLOUR "STANDARD NATURAL" BEDDED ON 50MM THICK COMPACTED SAND, SPOT BEDDING IN CEMENT MORTAR (1:3). ALL JOINTS TO BE SAND FILLED. ALL TO BE LAID IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

ALL NEW BITUMINOUS MACADAM FOOTPATHS TO HAVE KERB EDGING AGAINST CAR PARK AREA AND MARSHALLS 50 x 250 EF PRECAST CONCRETE FLAT TOP EDGINGS AGAINST ALL OTHER FINISHES.

CAR PARK IS TO RECEIVE A MIX OF STANDARD VEHICLE GRADE TARMAC SURFACE COAT AND HGV CLASS TARMAC SURFACE COAT WHERE NOTED.

CAR PARK AND ACCESS ROAD ARE TO RECEIVE NEW THERMOPLASTIC WHITE LINING THROUGHOUT WHERE REQUIRED. SEE WHITE LINING DETAIL DRAWING FOR DETAILS AND SPECIFICATION.

REFER TO CIVIL ENGINEER'S DRAWINGS AND DETAILS FOR ALL PROPOSED LEVELS, DRAINAGE, KERB DETAILS AND BUILD-UPS.

REFER TO M&E ENGINEER'S DRAWINGS AND DETAILS FOR PROPOSED EXTERNAL LIGHTING LAYOUT AND OTHER EXTERNAL SERVICES.

- CAR PARKING:**
- STANDARD BAYS (2.5x5.0m) = 80
  - ACCESSIBLE BAYS (3.7x6.2m) = 4
  - ACCESSIBLE (EVCP) (3.7x6.2m) = 2
  - PARENT & CHILD (3.0x5.0m) = 7
  - EV CHARGING (2.5x5.0m) = 2
  - CLICK & COLLECT (2.5x6.0m) = 2
- TOTAL = 97**

**CYCLE PARKING:**  
ACCOMMODATION FOR 10no. BICYCLES (MAX.)


**RED LINE BOUNDARY AREA:**  
14,992m<sup>2</sup> / 3.70 ACRES

**GEFA:** 1,829m<sup>2</sup>  
**GIA:** 1,768m<sup>2</sup>  
**SALES AREA:** 1,268m<sup>2</sup>

Client  
**Aldi Stores Ltd.**

Project Title  
**Aldi - ALLOA**

Project Address  
**WHINS ROAD, ALLOA, FK10 3SE**




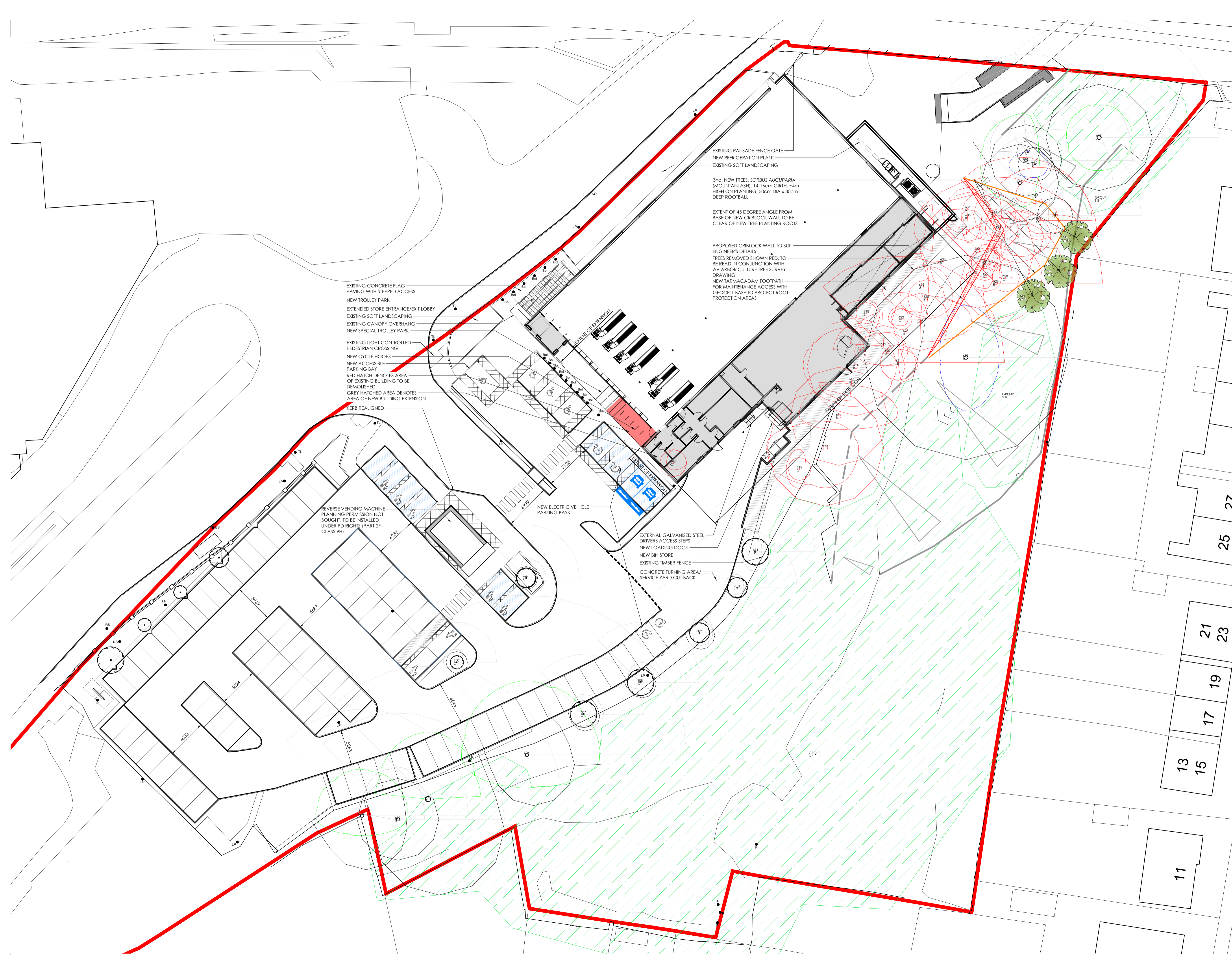
Drawing Title  
**PROPOSED SITE PLAN**

Job No.	Originator	Zone	Level	Type	Role
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System Classification	Drawing No.	Subsidiary	Revision		
Zz_70_60_00	-0002	S4	P06		
Drawn	Checked	Date	Scale	Size	
NM	LC/ACG	2021-04-30	1:250	A1	

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92 Fountainbridge,  
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e : admin@projekttarchitects.com  
w : www.projekttarchitects.com

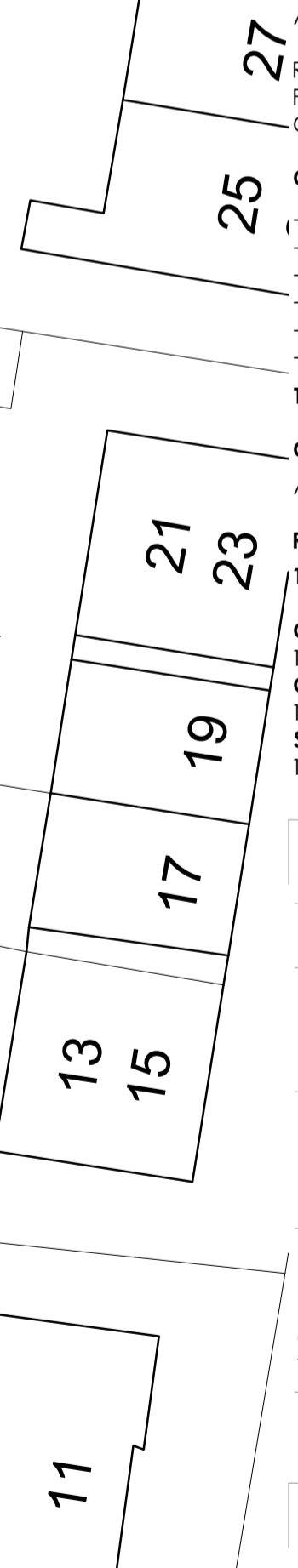



- EXISTING CONCRETE FLAG PAVING WITH STEPPED ACCESS
- NEW TROLLEY PARK
- EXTENDED STORE ENTRANCE/EXIT LOBBY
- EXISTING SOFT LANDSCAPING
- EXISTING CANOPY OVERHANG
- NEW SPECIAL TROLLEY PARK
- EXISTING LIGHT CONTROLLED PEDESTRIAN CROSSING
- NEW CYCLE HOOPS
- NEW ACCESSIBLE PARKING BAY
- RED HATCH DENOTES AREA OF EXISTING BUILDING TO BE DEMOLISHED
- GREY HATCHED AREA DENOTES AREA OF NEW BUILDING EXTENSION
- KERB REALIGNED

- EXISTING PAUSADE FENCE GATE
- NEW REFRIGERATION PLANT
- EXISTING SOFT LANDSCAPING
- 3no. NEW TREES, SORBUS AUCUPARIA (MOUNTAIN ASH), 14-16cm GIRTH, ~4m HIGH ON PLANTING, 50cm DIA x 30cm DEEP ROOTBALL
- EXTENT OF 45 DEGREE ANGLE FROM BASE OF NEW CRIBLOCK WALL TO BE CLEAR OF NEW TREE PLANTING ROOTS

- PROPOSED CRIBLOCK WALL TO SUIT ENGINEER'S DETAILS
- TREES REMOVED SHOWN RED, TO BE READ IN CONJUNCTION WITH AV ARBORICULTURE TREE SURVEY DRAWING
- NEW TARMACADAM FOOTPATH FOR MAINTENANCE ACCESS WITH GEOCELL BASE TO PROTECT ROOT PROTECTION AREAS

- EXTERNAL GALVANISED STEEL DRIVERS ACCESS STEPS
- NEW LOADING DOCK
- NEW BIN STORE
- EXISTING TIMBER FENCE
- CONCRETE TURNING AREA/ SERVICE YARD CUT BACK



# **Appendix B**

## Historical Maps



consulting engineers

## Clackmannanshire

Published 1870

Source map scale - 1:500

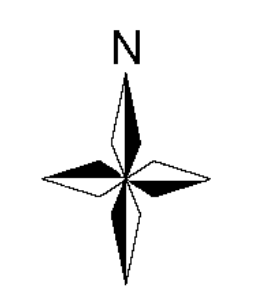
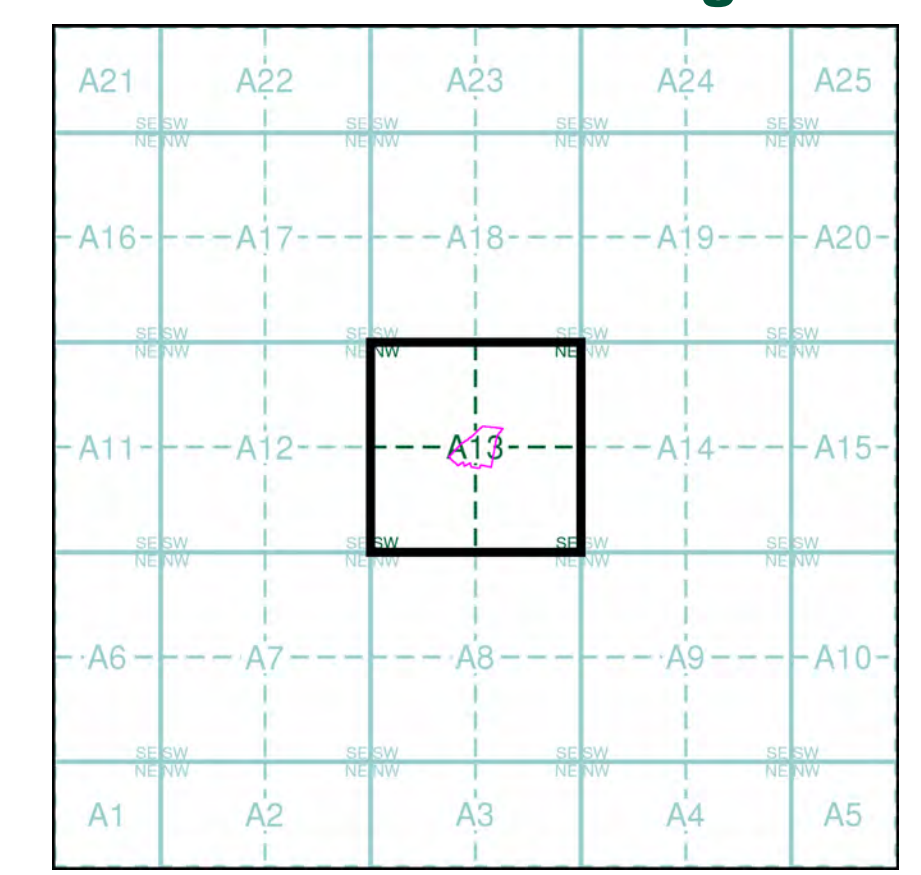
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped more than once at this scale, and none have been since 1910. The 1:500 scale gives particular emphasis to such features as lamp posts, man holes, arched passages and minor building projections. Also often featured are divisions between tenements, interior ground floor layouts of public buildings, and on earlier plans, the functions of the various parts of larger industrial premises are also indicated. Content of the plans does vary however, from one town to the next in terms of, for example, the completeness of railway tracks and the coverage of public buildings.

Please note: Due to the partial coverage of Historical Town Plans, it is possible that not all segments within an order will contain mapping. Only the segments that have Town Plan coverage will be generated.

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

139_04_018	1870	1:500
139_04_023	1870	1:500

### Historical Town Plan - Segment A13



### Order Details

Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 0

### Site Details

Aldi, Whins Road, ALLOA, FK10 3SE



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

# Historical Mapping Legends

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

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

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

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

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

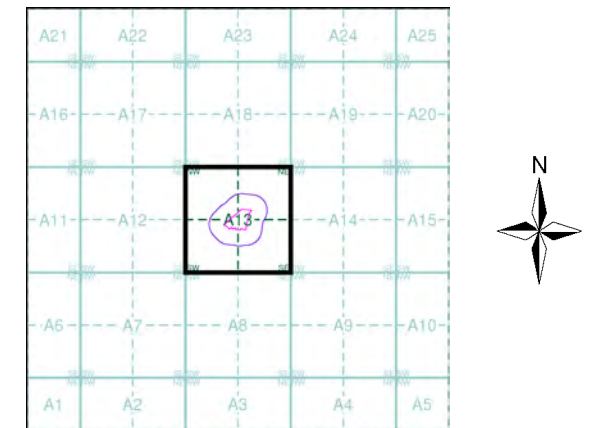
**Cliff**   **Slopes**   **Top**  
**Rock**   **Rock (scattered)**  
**Boulders**   **Boulders (scattered)**  
**Positioned Boulder**   **Scree**  
**Non-Coniferous Tree (surveyed)**   **Coniferous Tree (surveyed)**  
**Non-Coniferous Trees (not surveyed)**   **Coniferous Trees (not surveyed)**  
**Orchard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



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Perthshire	1:2,500	1865	2
Perthshire	1:2,500	1900	3
Perthshire	1:2,500	1922	4
Ordnance Survey Plan	1:1,250	1952	5
Ordnance Survey Plan	1:2,500	1953 - 1961	6
Ordnance Survey Plan	1:1,250	1954 - 1963	7
Ordnance Survey Plan	1:2,500	1959 - 1974	8
Additional SIMs	1:1,250	1959 - 1989	9
Ordnance Survey Plan	1:1,250	1968 - 1972	10
Ordnance Survey Plan	1:1,250	1968 - 1971	11
Additional SIMs	1:1,250	1986 - 1990	12
Additional SIMs	1:1,250	1989	13
Additional SIMs	1:1,250	1990	14
Large-Scale National Grid Data	1:1,250	1992	15
Large-Scale National Grid Data	1:1,250	1992 - 1993	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
Large-Scale National Grid Data	1:1,250	1996	20

## Historical Map - Segment A13



## Order Details

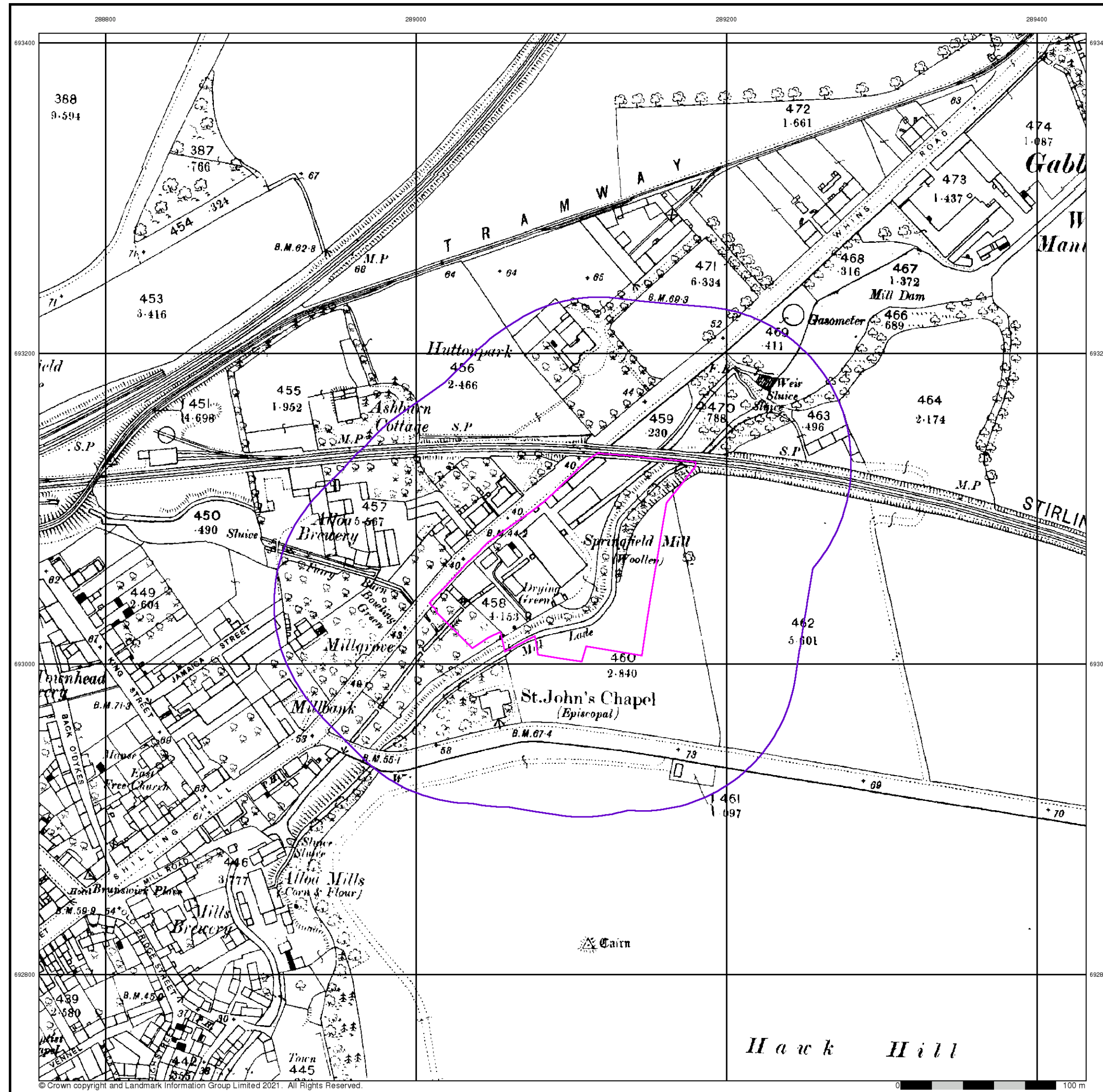
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 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

## Site Details

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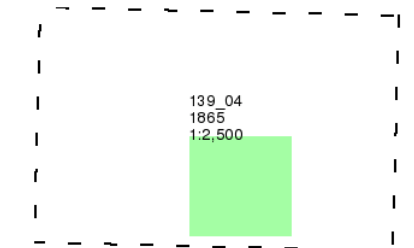
Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk



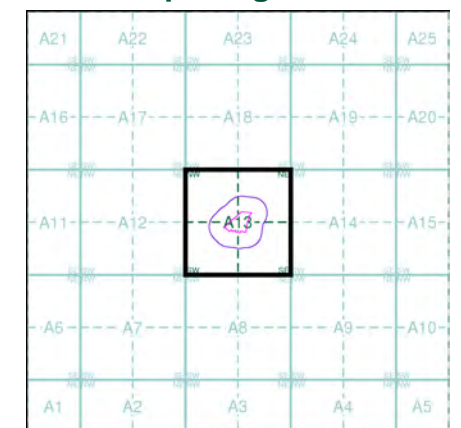
**Perthshire**  
**Published 1865**  
**Source map scale - 1:2,500**

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**

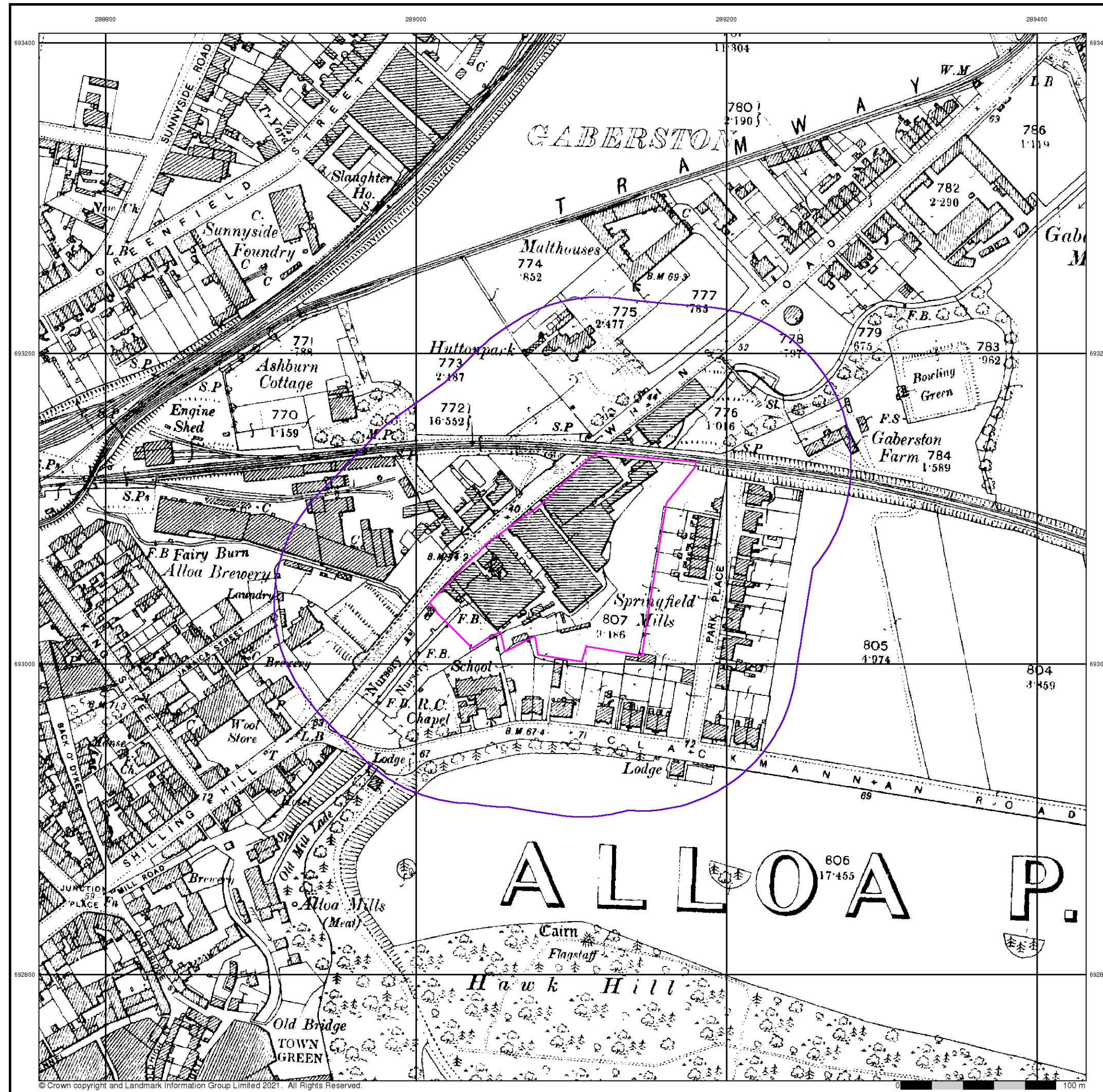
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 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

**Site Details**

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 Web: www.envirocheck.co.uk



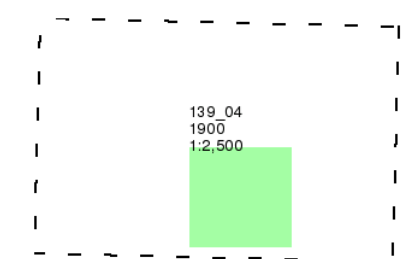
Perthshire

Published 1900

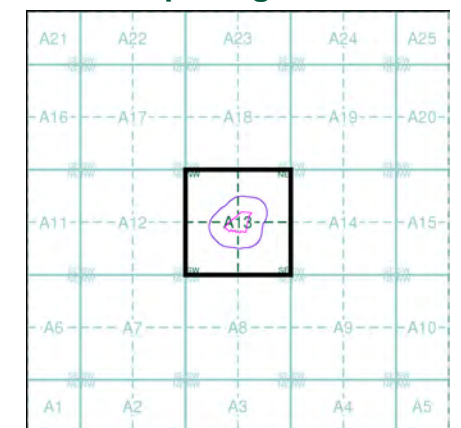
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

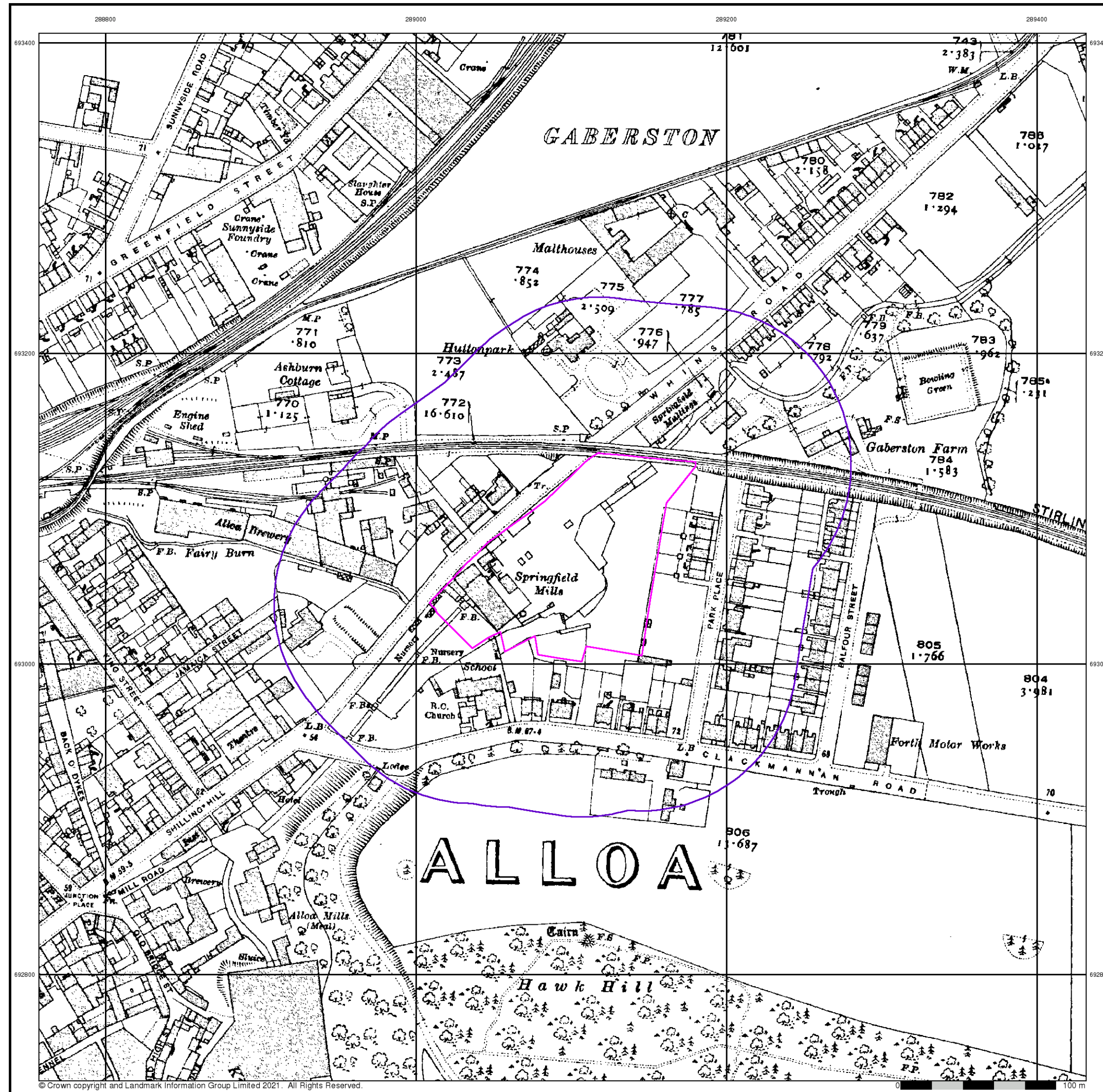
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 Search Buffer (m): 100

Site Details

Aldi, Whins Road, ALLOA, FK10 3SE



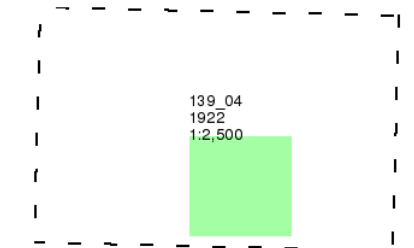
Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk



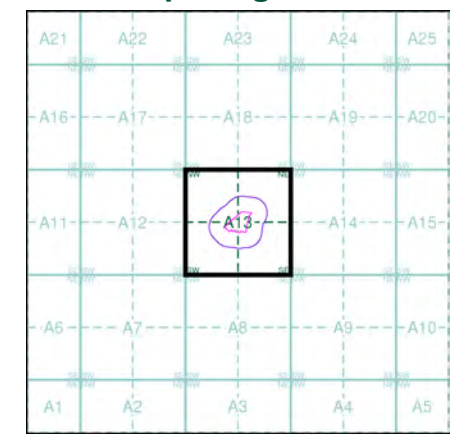
**Perthshire**  
**Published 1922**  
**Source map scale - 1:2,500**

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)**



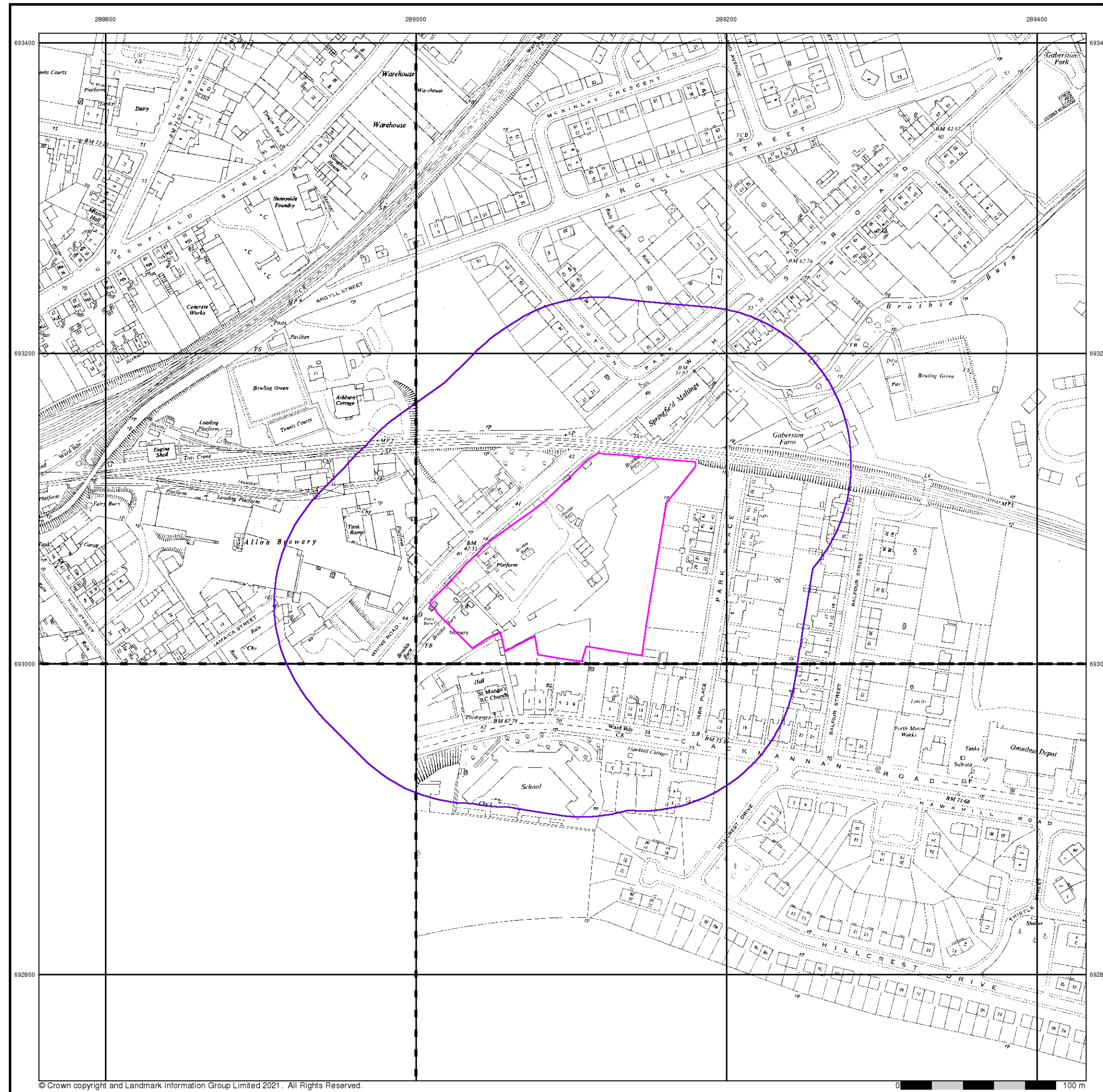
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**Order Details**  
 Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

**Site Details**  
 Aldi, Whins Road, ALLOA, FK10 3SE

**Landmark**  
 INFORMATION GROUP  
 Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk



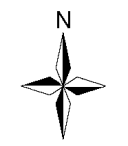
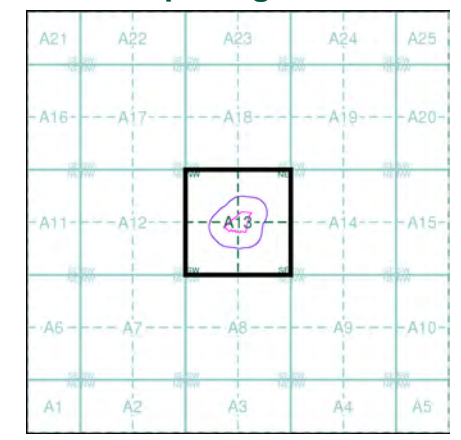
**Ordnance Survey Plan**  
**Published 1952**  
**Source map scale - 1:1,250**

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)**

NS8893SE	NS8993SW
1952	1952
1:1,250	1:1,250
NS8992NW	
1952	
1:1,250	

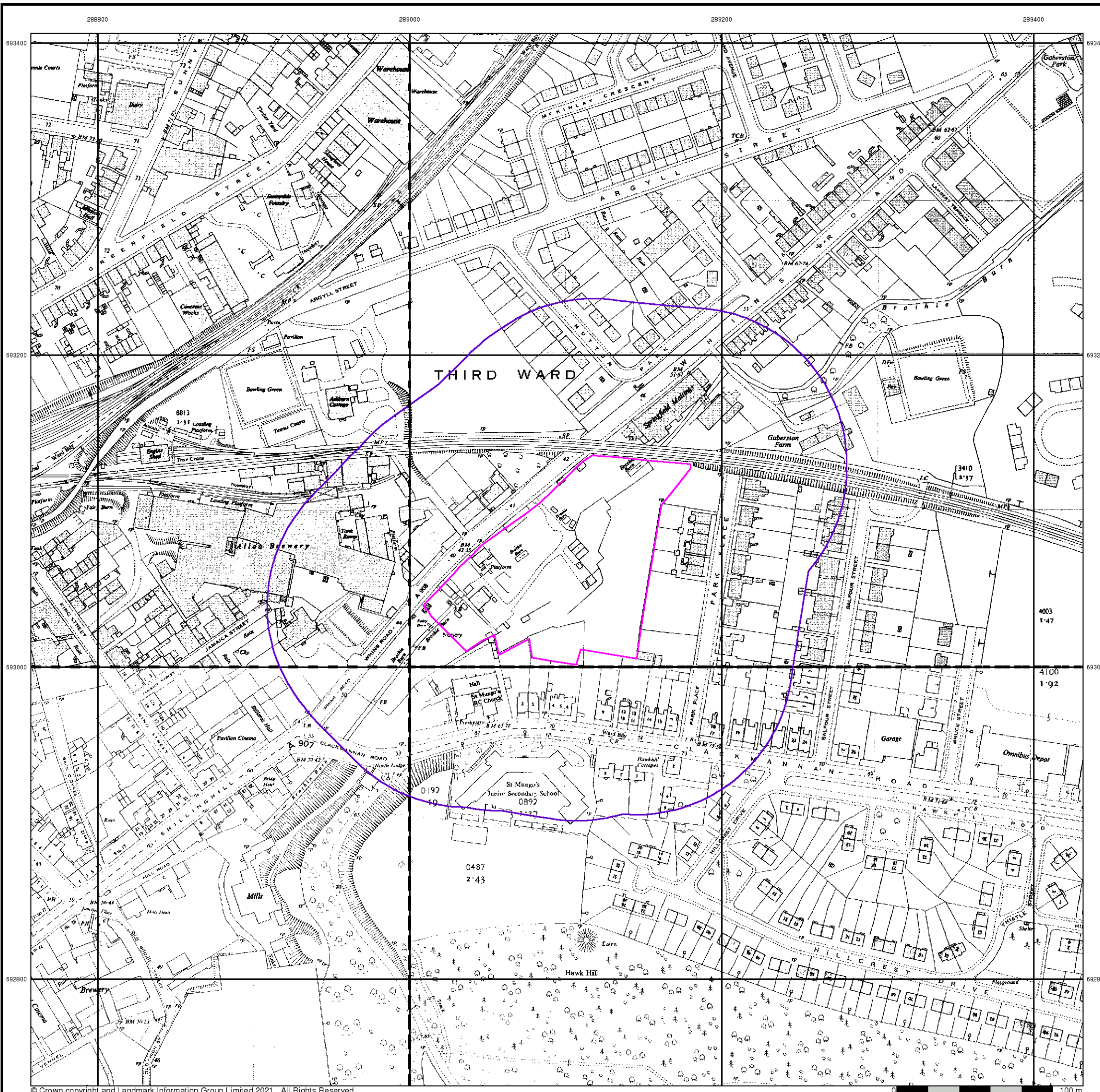
**Historical Map - Segment A13**



**Order Details**  
 Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
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 Search Buffer (m): 100

**Site Details**  
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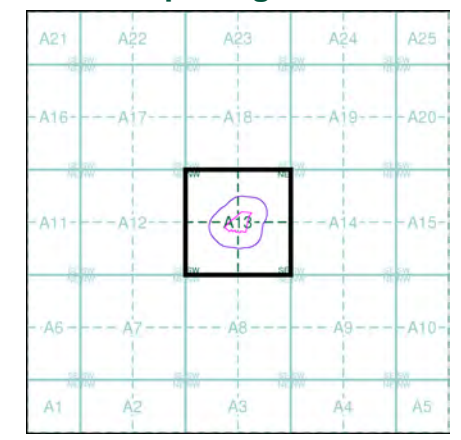
**Ordnance Survey Plan**  
**Published 1953 - 1961**  
**Source map scale - 1:2,500**

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)**

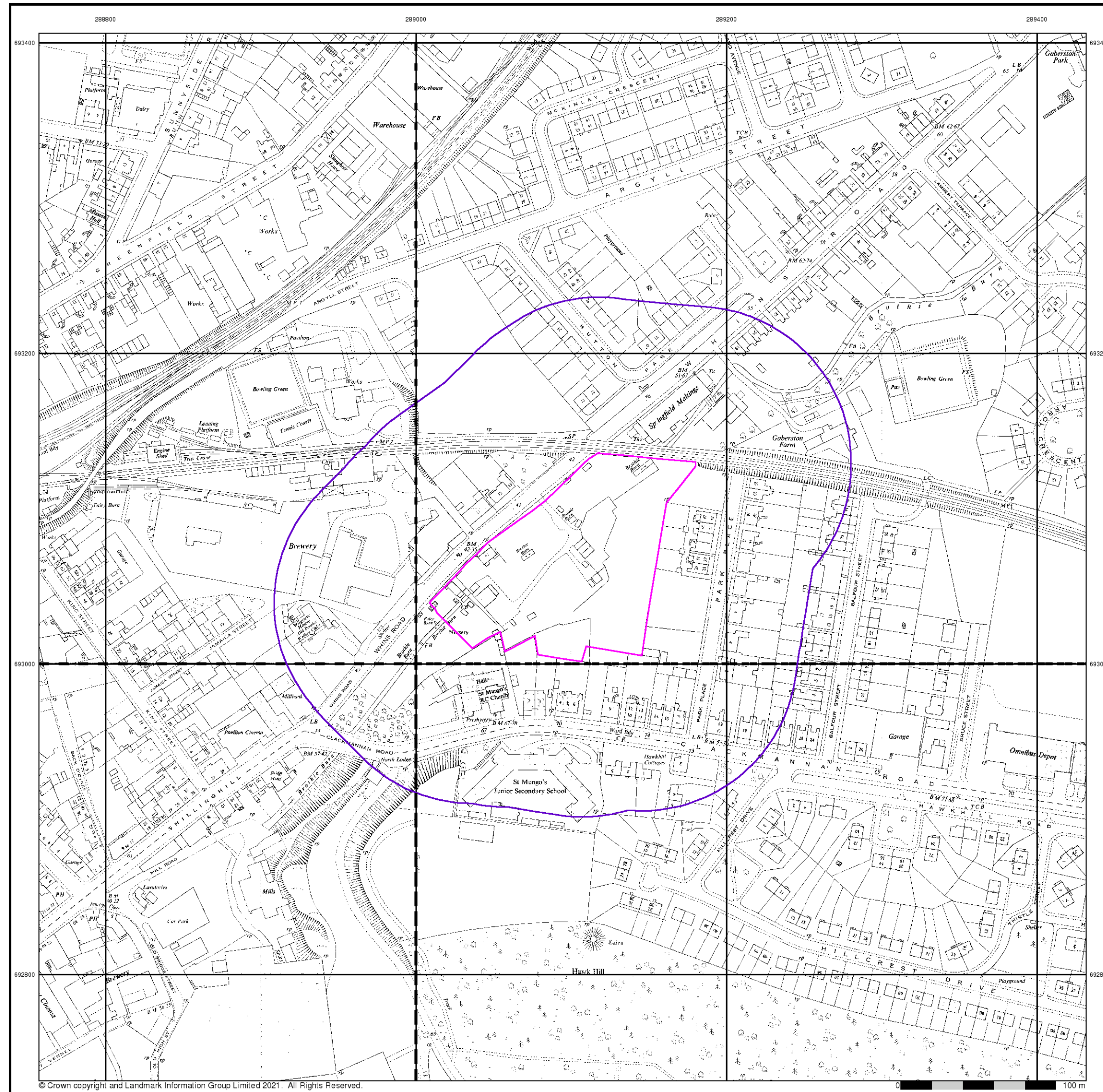
NS8893 1953 12,500	NS8993 1953 12,500
NS8892 1961 12,500	NS8992 1961 12,500

**Historical Map - Segment A13**



**Order Details**  
 Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

**Site Details**  
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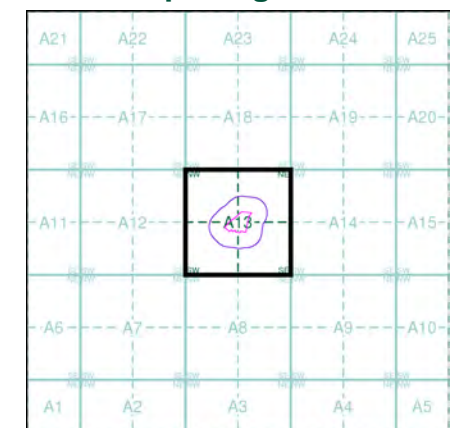
**Ordnance Survey Plan**  
**Published 1954 - 1963**  
**Source map scale - 1:1,250**

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)**

NS8893SE 1963 1:1,250	NS8993SW 1954 1:1,250
NS8892NE 1963 1:1,250	NS8992NW 1959 1:1,250

**Historical Map - Segment A13**



**Order Details**

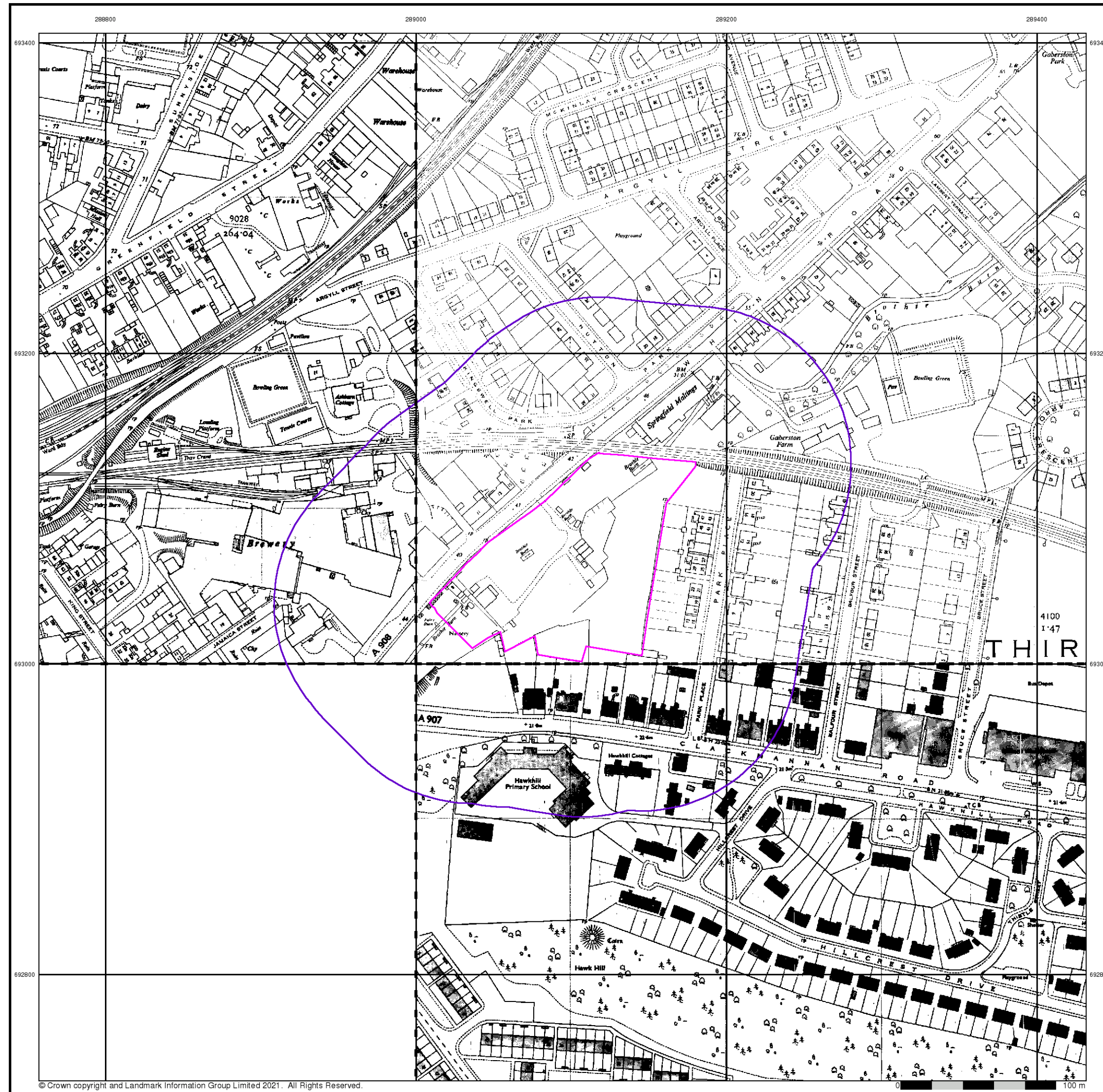
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 Customer Ref: P17-107  
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 Slice: A  
 Site Area (Ha): 1.34  
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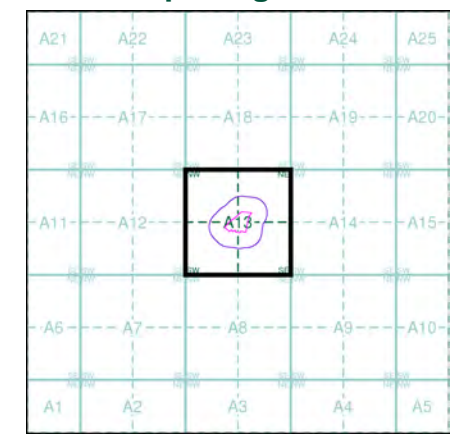
**Ordnance Survey Plan**  
**Published 1959 - 1974**  
**Source map scale - 1:2,500**

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)**

NS8893 1959 1:2,500	NS8993 1959 1:2,500
	
NS8992 1974 1:2,500	

**Historical Map - Segment A13**



**Order Details**

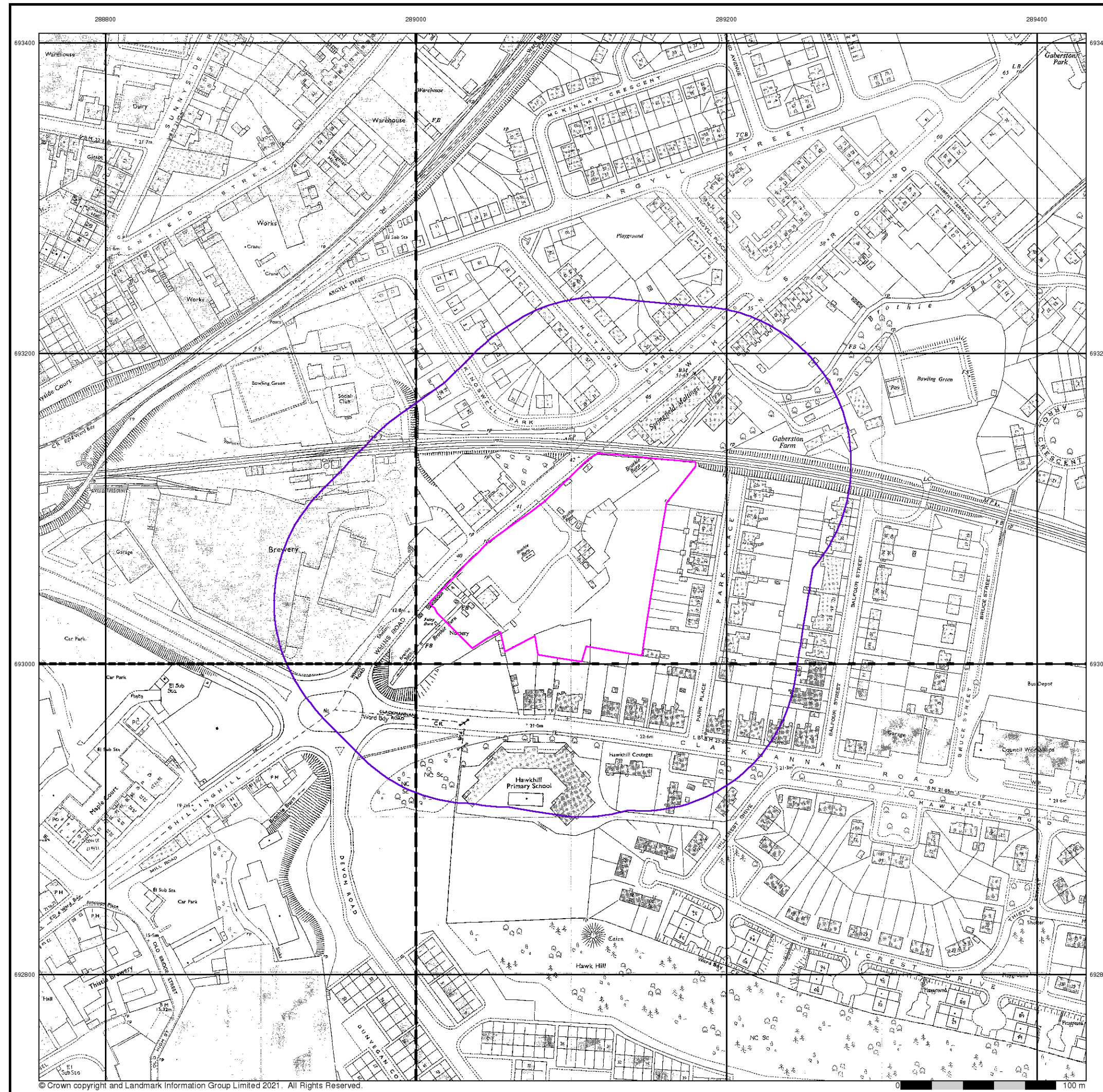
Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

**Site Details**

Aldi, Whins Road, ALLOA, FK10 3SE



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



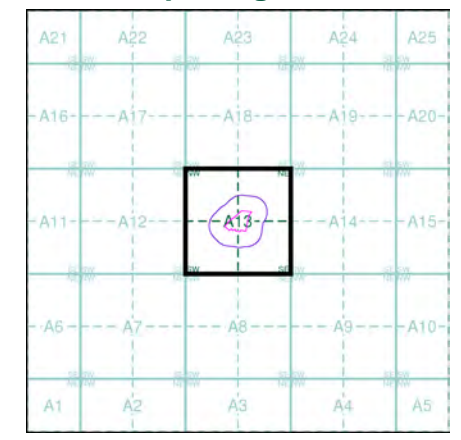
**Additional SIMs**  
**Published 1959 - 1989**  
**Source map scale - 1:1,250**

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)**

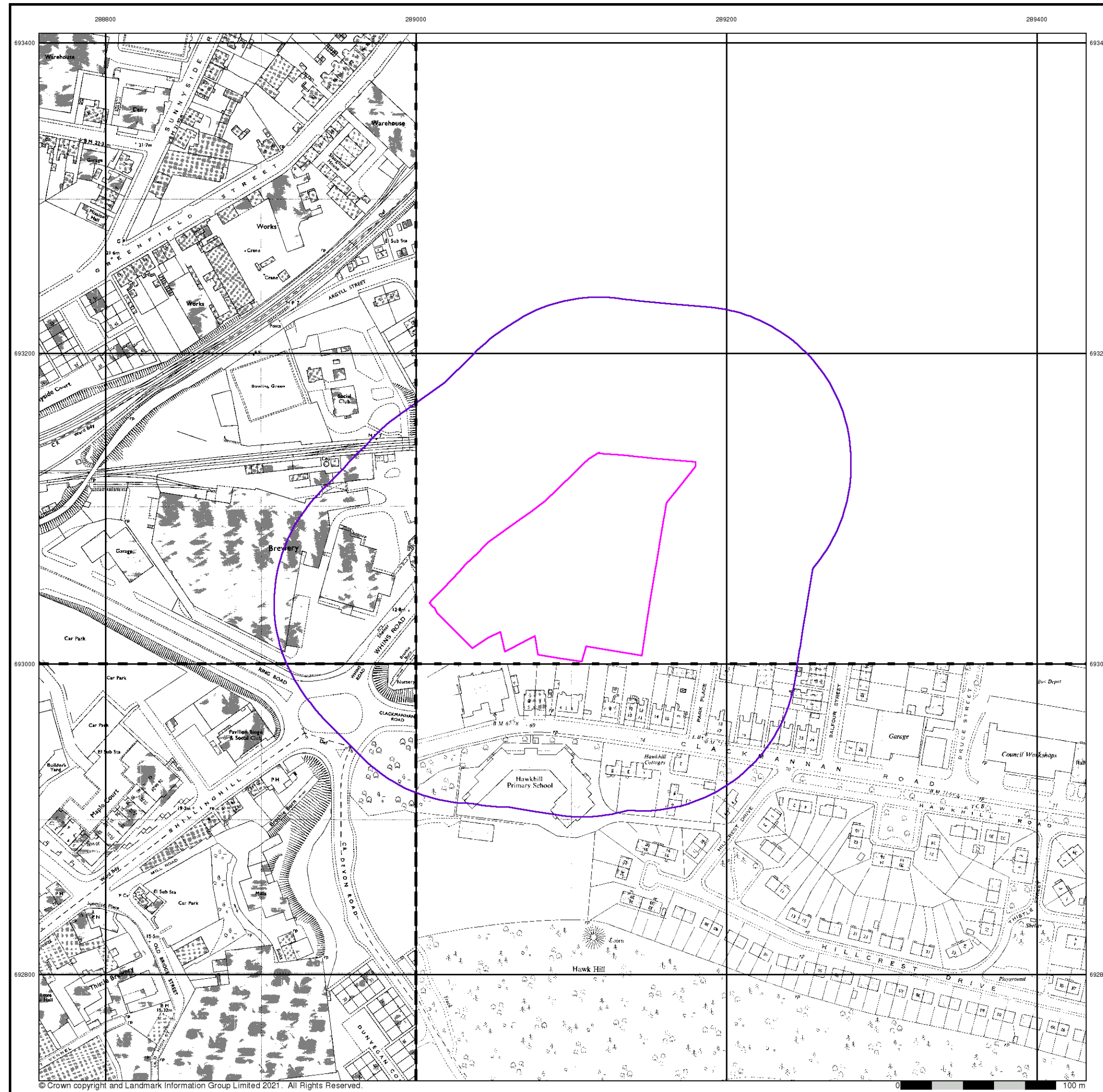
NS8893SE 1977 1:1,250	NS8893SW 1959 1:1,250
NS8892NE 1989 1:1,250	NS8892NW 1987 1:1,250

**Historical Map - Segment A13**



**Order Details**  
 Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
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**Site Details**  
 Aldi, Whins Road, ALLOA, FK10 3SE



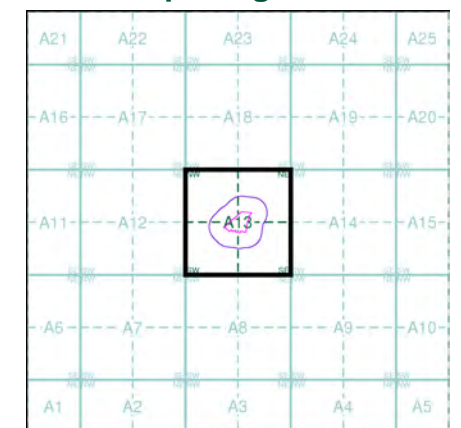
**Ordnance Survey Plan**  
**Published 1968 - 1972**  
**Source map scale - 1:1,250**

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)**

NS8893SE	1972	1:1,250
NS8892NE	1972	1:1,250
NS892NW	1968	1:1,250

**Historical Map - Segment A13**



**Order Details**

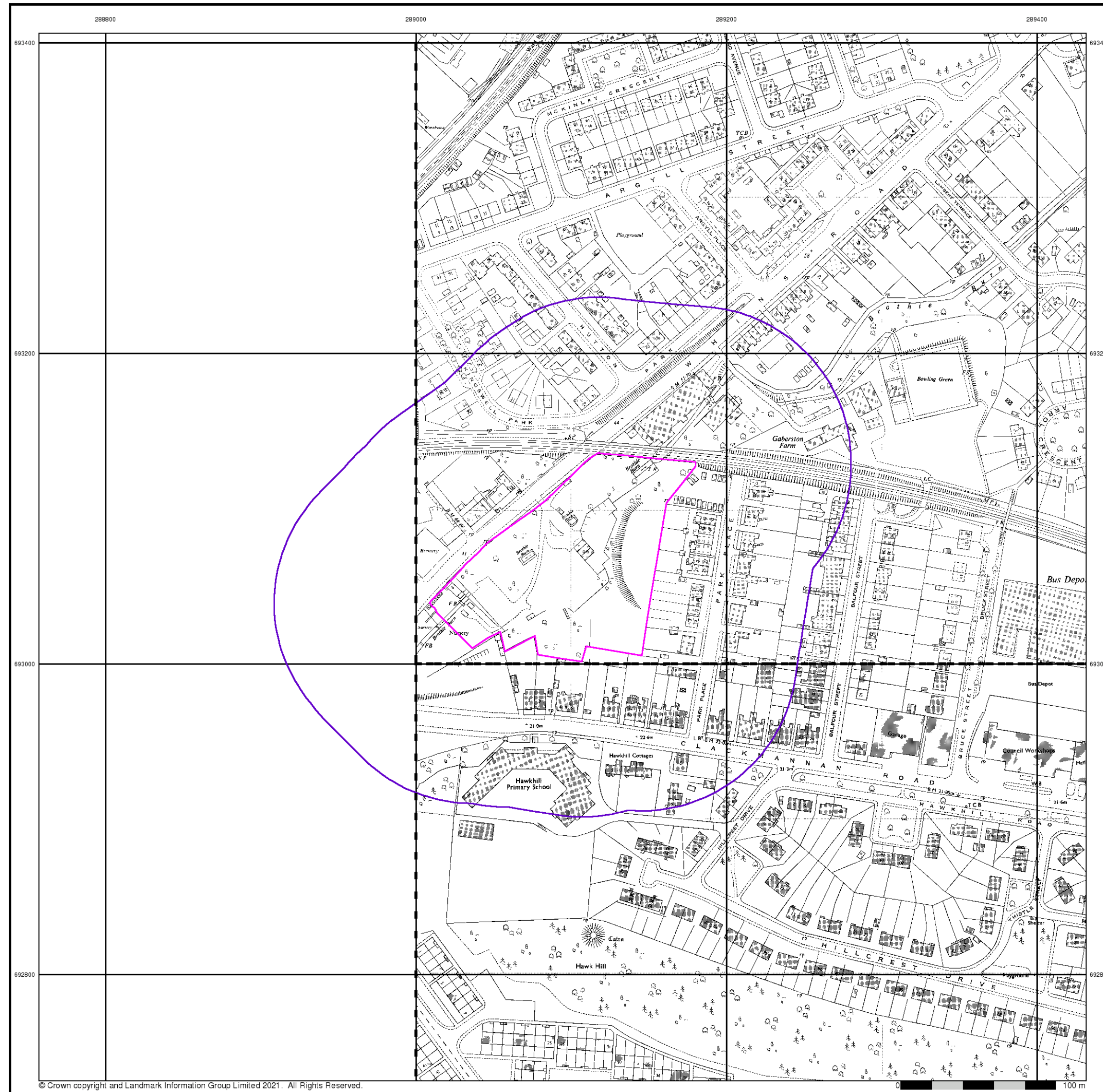
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 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

**Site Details**

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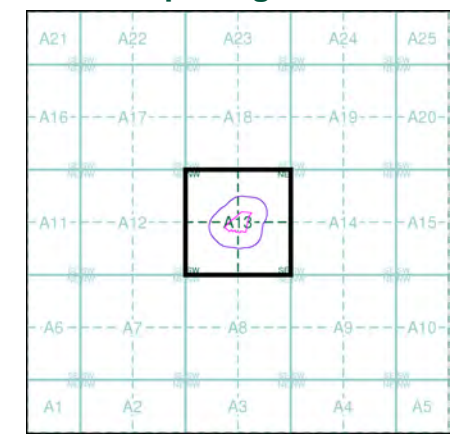
**Ordnance Survey Plan**  
**Published 1968 - 1971**  
**Source map scale - 1:1,250**

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)**

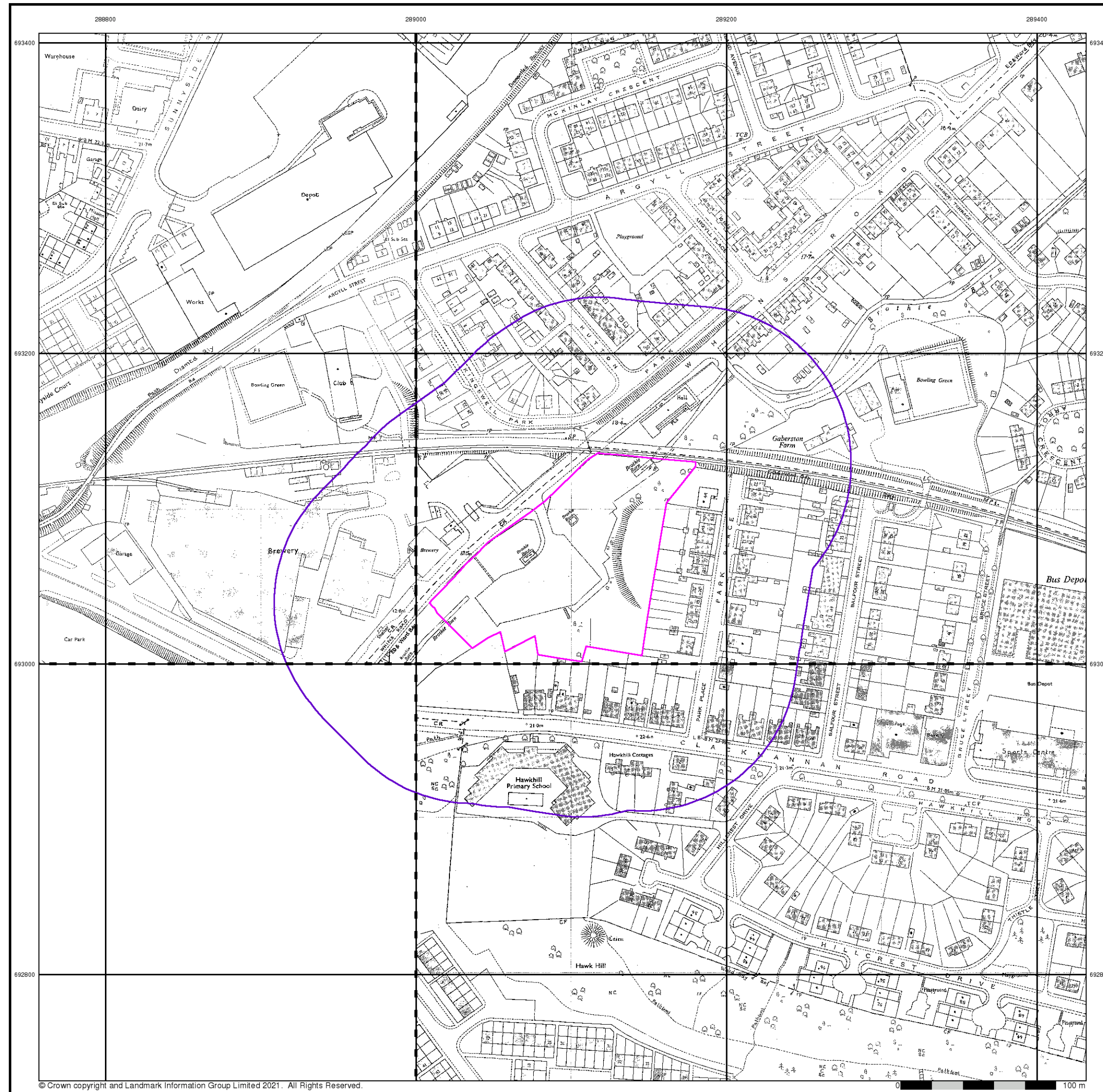
NS8993SW	1968	1:1,250
NS8992NW	1971	1:1,250

**Historical Map - Segment A13**



**Order Details**  
 Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

**Site Details**  
 Aldi, Whins Road, ALLOA, FK10 3SE



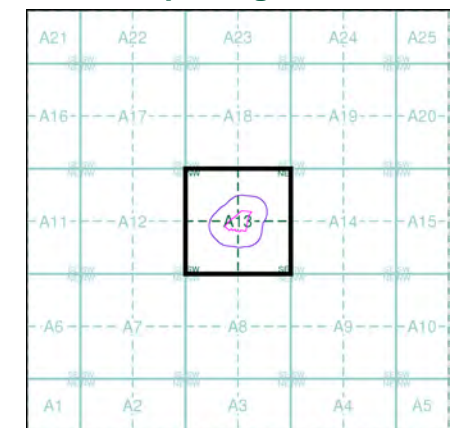
**Additional SIMs**  
**Published 1986 - 1990**  
**Source map scale - 1:1,250**

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)**

NS8893SE 1986 1:1,250	NS8993SW 1989 1:1,250
NS8992NW 1990 1:1,250	

**Historical Map - Segment A13**



**Order Details**

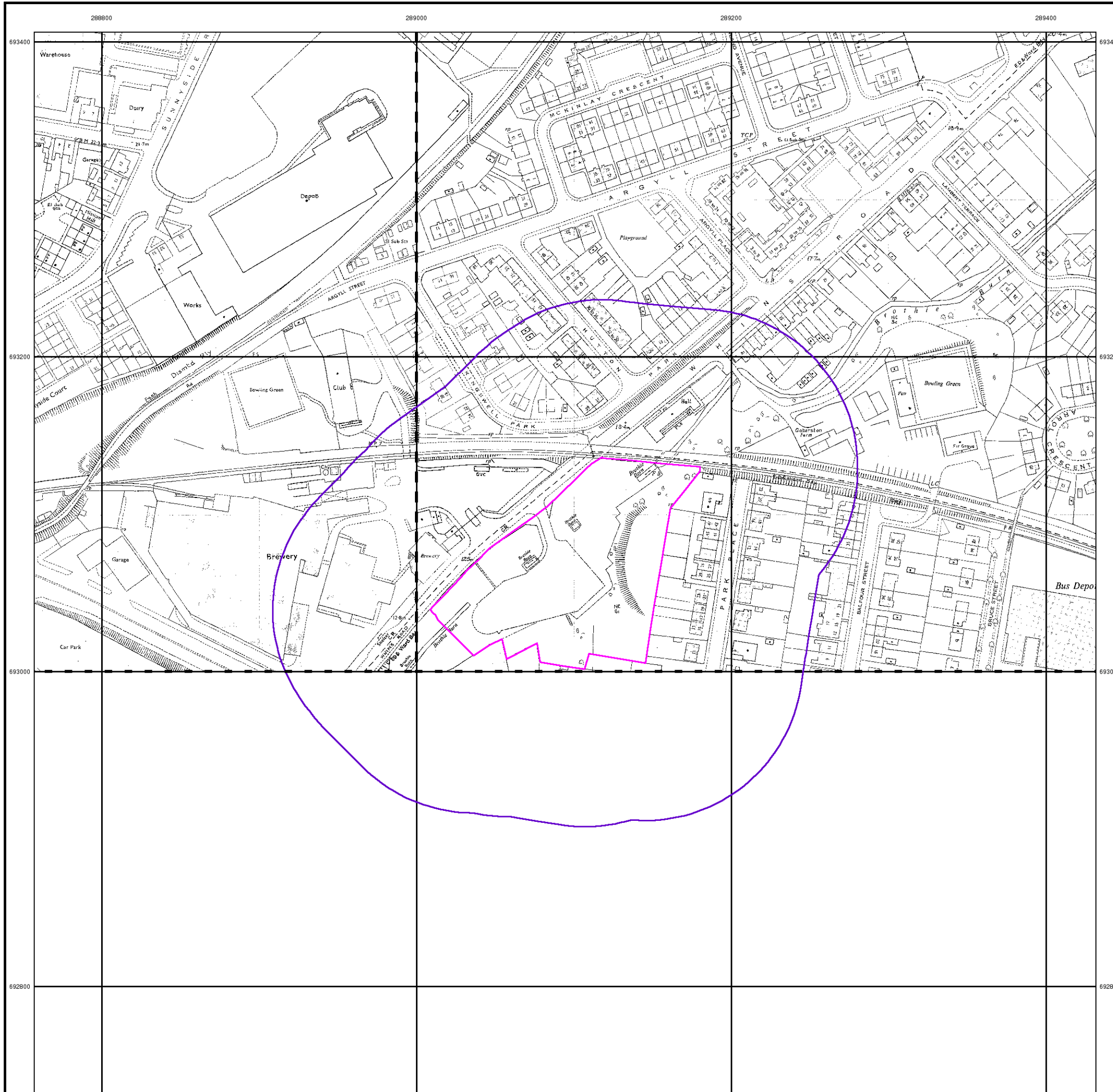
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 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

**Site Details**

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### Additional SIMs

Published 1989

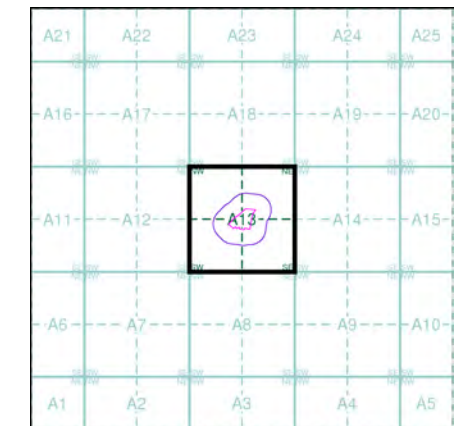
Source map scale - 1:1,250

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)

NS8893E 1989 1:1,250	NS893SW 1989 1:1,250
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### Historical Map - Segment A13



### Order Details

Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

### Site Details

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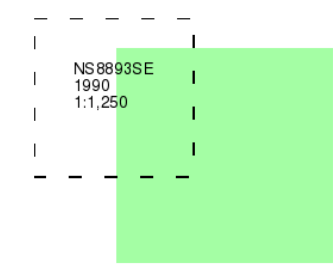
**Additional SIMs**

**Published 1990**

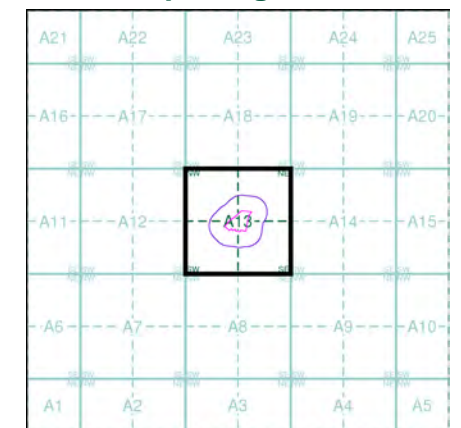
**Source map scale - 1:1,250**

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**

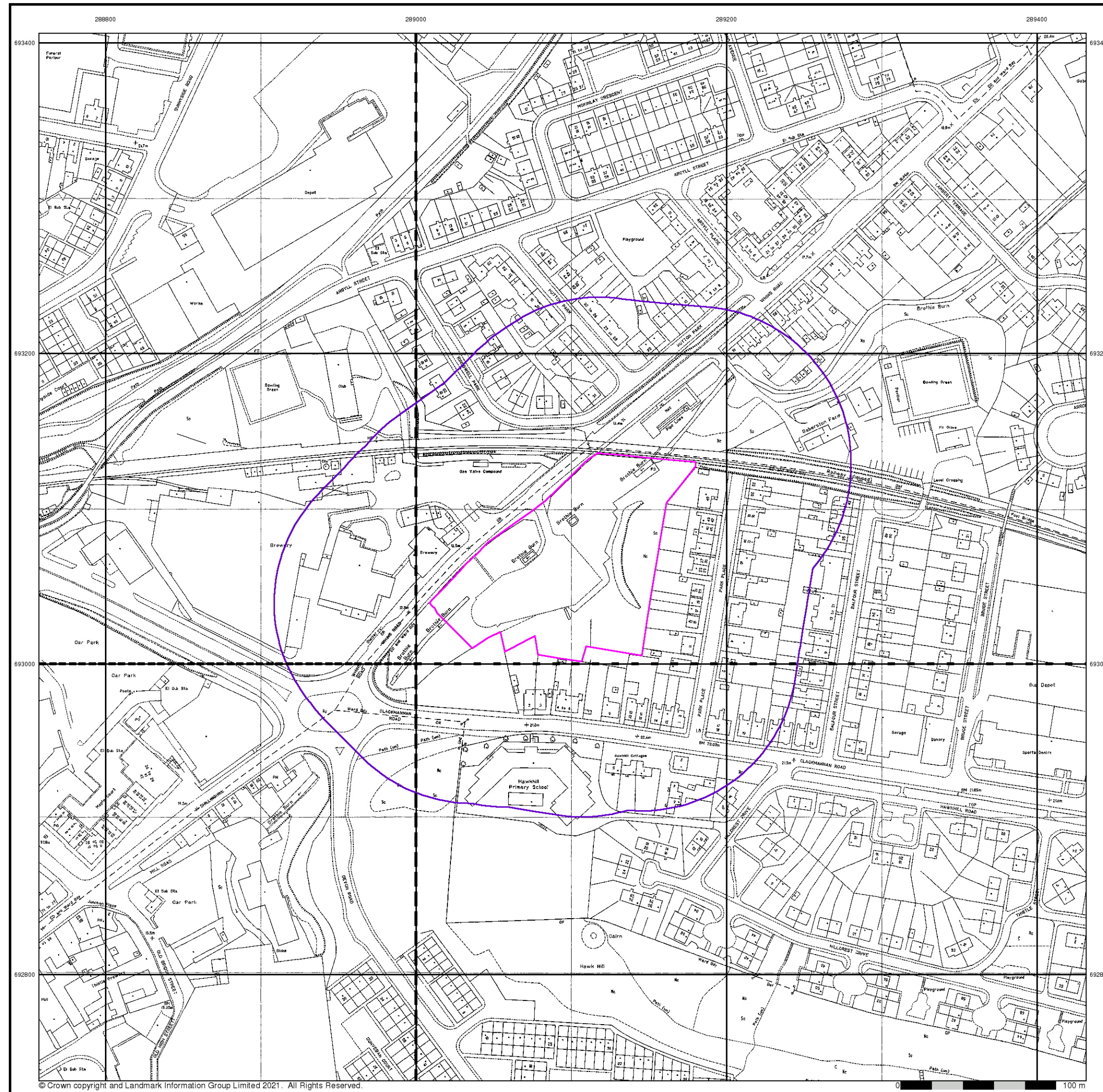
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 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
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 Site Area (Ha): 1.34  
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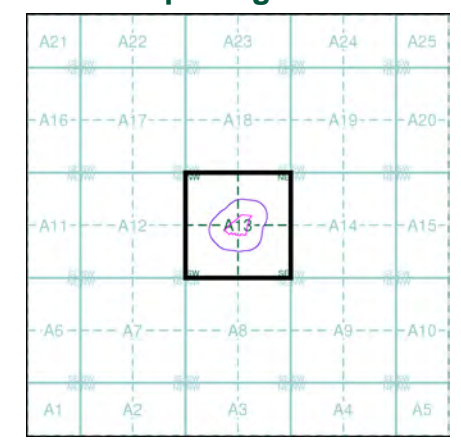
**Large-Scale National Grid Data**  
**Published 1992**  
**Source map scale - 1:1,250**

'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)**

NS8893SE 1992 1:1,250	NS8993SW 1992 1:1,250
NS8892NE 1992 1:1,250	NS8992NW 1992 1:1,250

**Historical Map - Segment A13**



**Order Details**

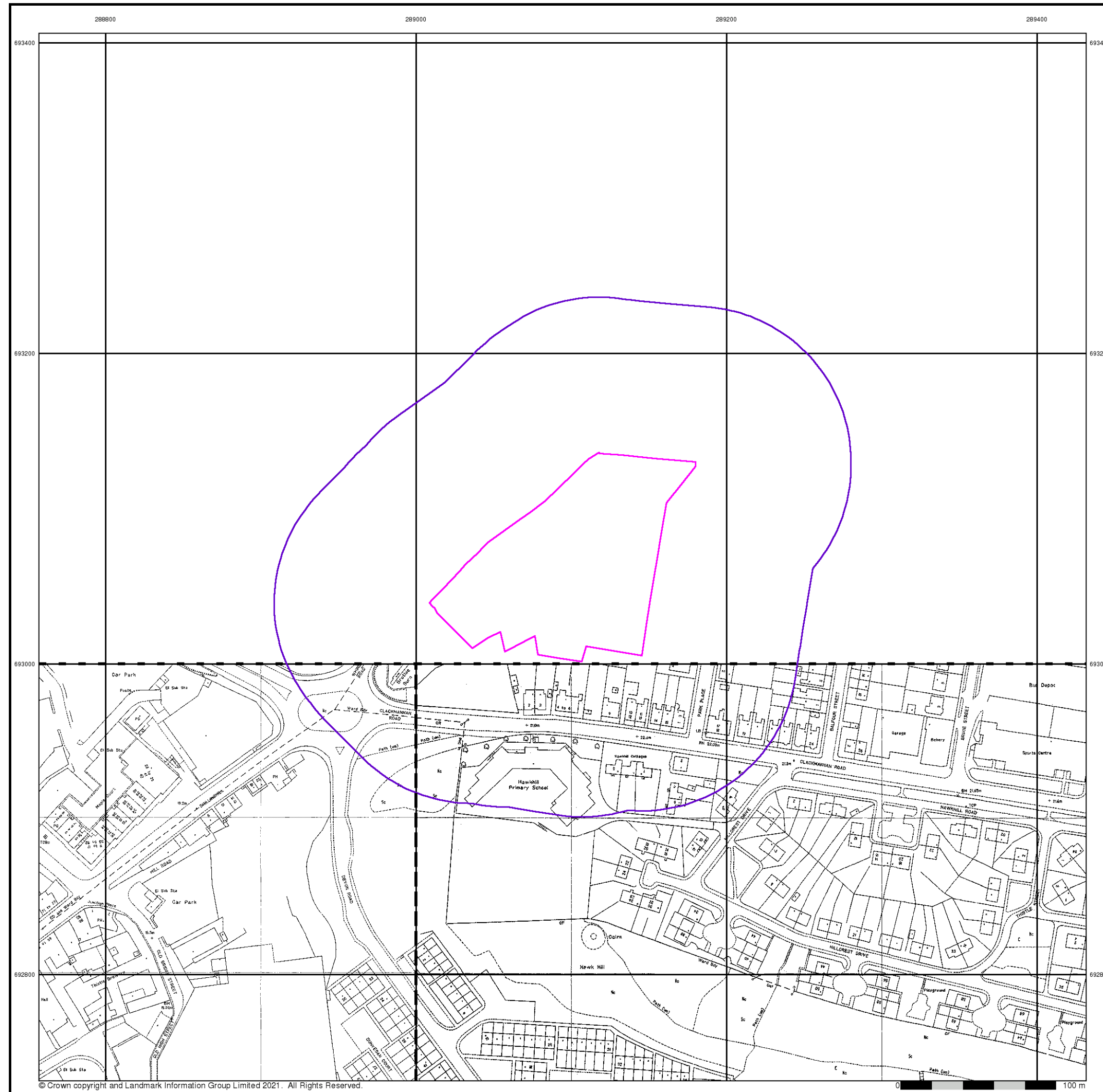
Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

**Site Details**

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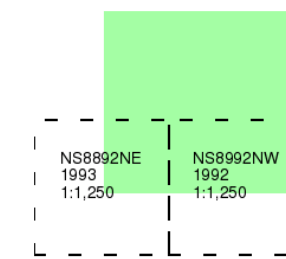
Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk



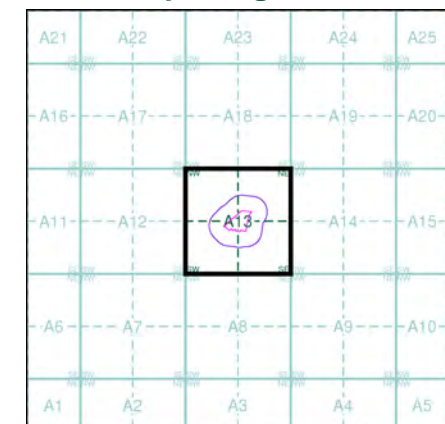
**Large-Scale National Grid Data**  
**Published 1992 - 1993**  
**Source map scale - 1:1,250**

'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: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 100

**Site Details**

Aldi, Whins Road, ALLOA, FK10 3SE



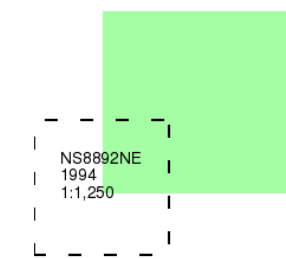
Tel: 0844 844 9952  
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 Web: www.envirocheck.co.uk



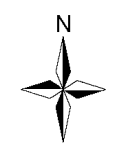
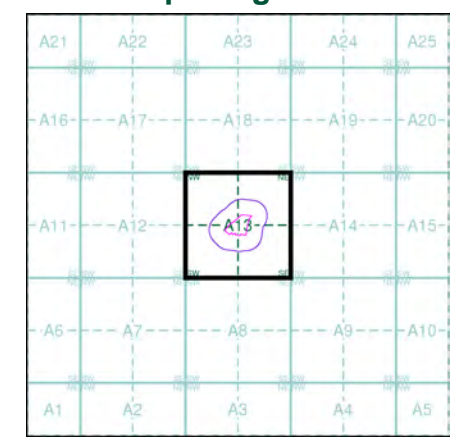
**Large-Scale National Grid Data**  
**Published 1994**  
**Source map scale - 1:1,250**

'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**



**Order Details**

Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
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**Site Details**

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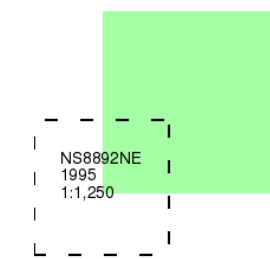
Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk



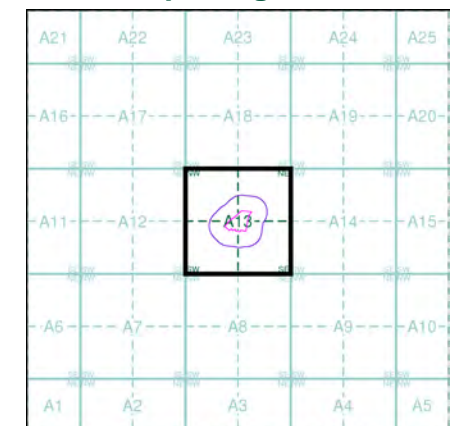
**Large-Scale National Grid Data**  
**Published 1995**  
**Source map scale - 1:1,250**

'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**



**Order Details**

Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
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**Site Details**

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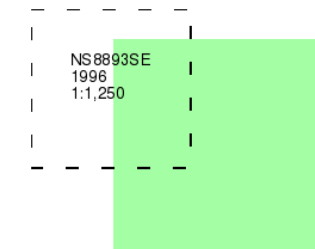
## Large-Scale National Grid Data

Published 1996

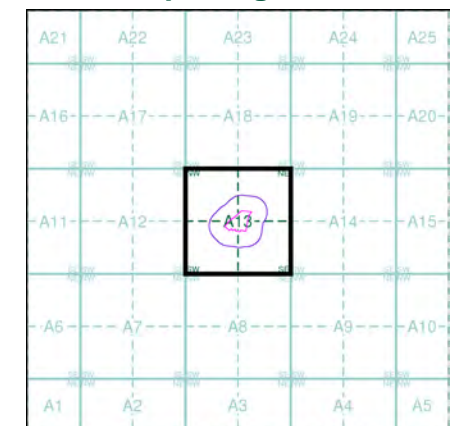
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'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information 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

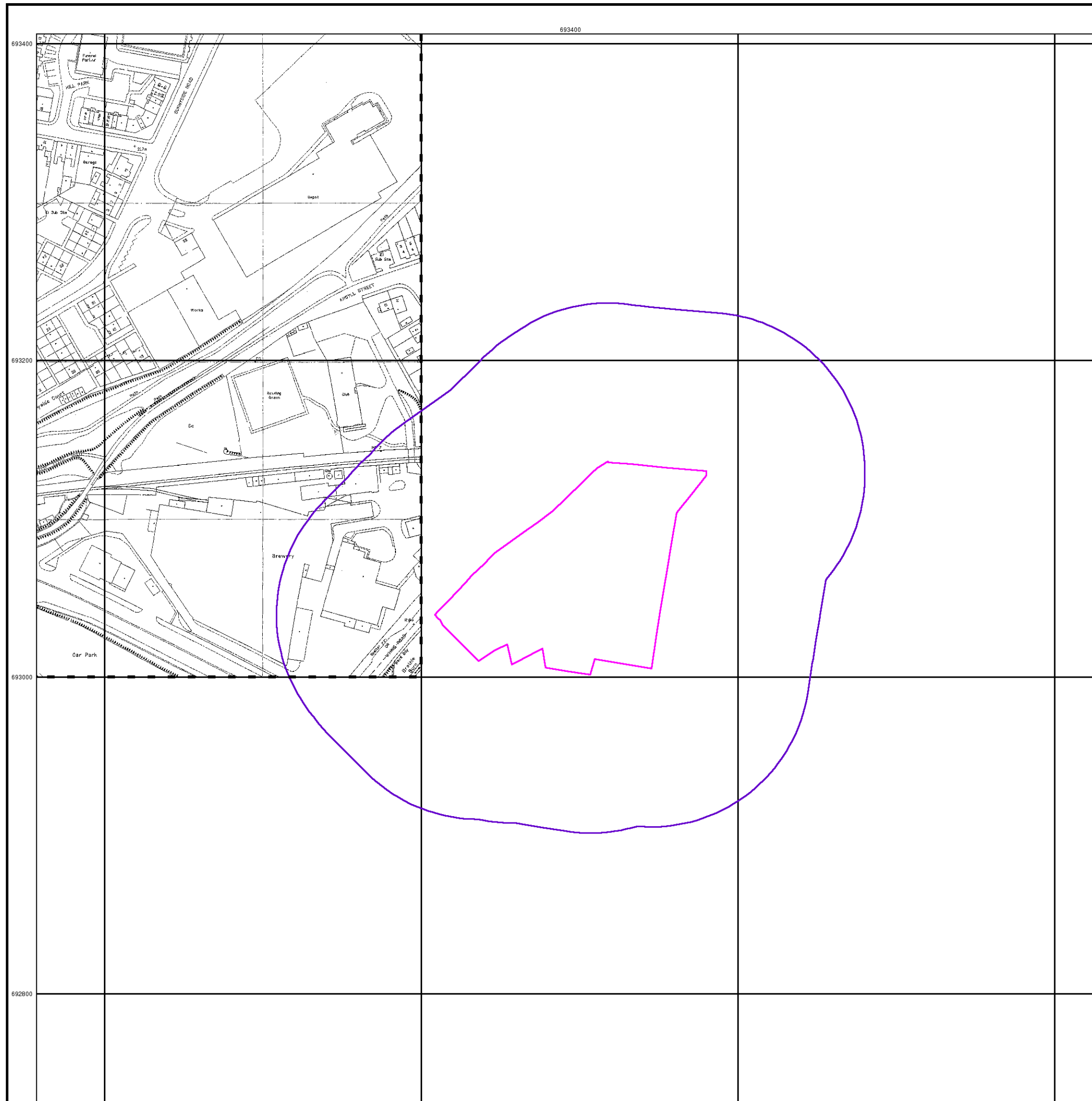
Order Number: 286910639\_1\_1  
Customer Ref: P17-107  
National Grid Reference: 289100, 693070  
Slice: A  
Site Area (Ha): 1.34  
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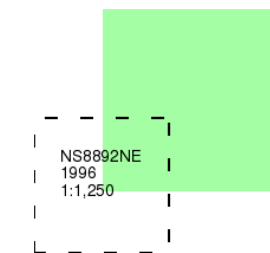
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Published 1996

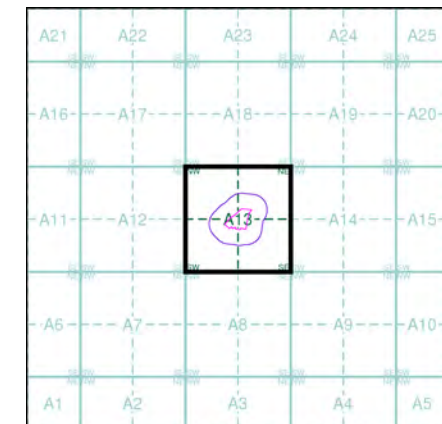
Source map scale - 1:1,250

'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

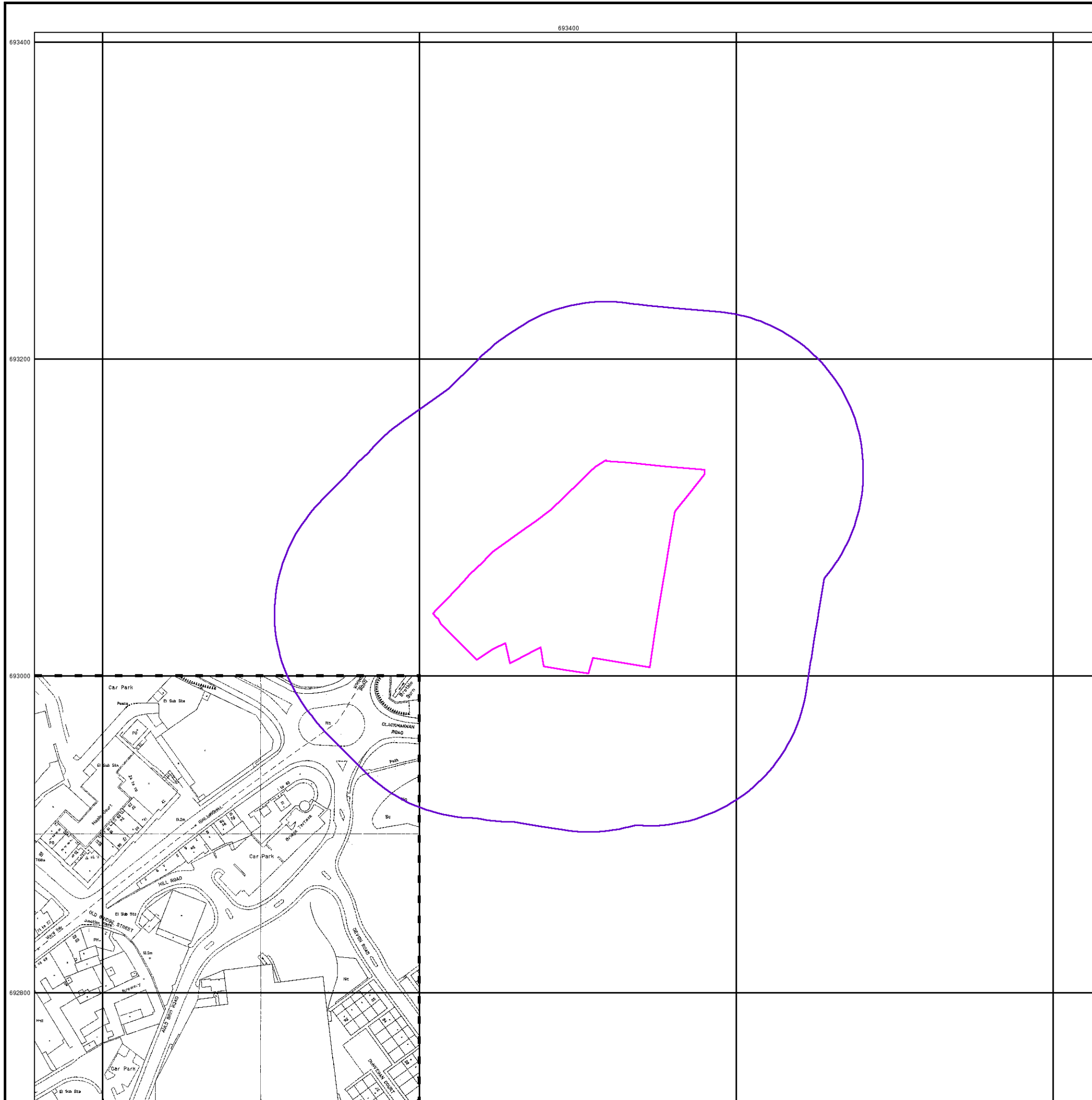
Order Number: 286910639\_1\_1  
Customer Ref: P17-107  
National Grid Reference: 289100, 693070  
Slice: A  
Site Area (Ha): 1.34  
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# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	<b>-285</b> 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

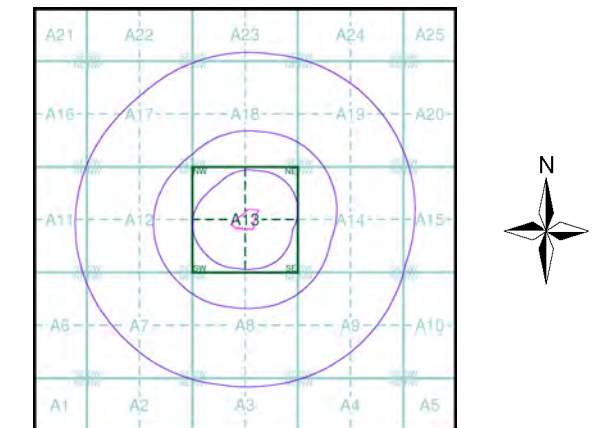


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## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Stirlingshire	1:10,560	1865	2
Perthshire	1:10,560	1866	3
Fifehire	1:10,560	1897	4
Stirlingshire	1:10,560	1899	5
Perthshire	1:10,560	1901	6
Fifehire	1:10,560	1921	7
Perthshire	1:10,560	1924	8
Stirlingshire	1:10,560	1924 - 1925	9
Perthshire	1:10,560	1950 - 1951	10
Stirlingshire	1:10,560	1951 - 1952	11
Fifehire	1:10,560	1951	12
Ordnance Survey Plan	1:10,000	1958	13
Ordnance Survey Plan	1:10,000	1967	14
Ordnance Survey Plan	1:10,000	1978	15
Ordnance Survey Plan	1:10,000	1983 - 1987	16
Ordnance Survey Plan	1:10,000	1990 - 1991	17
10K Raster Mapping	1:10,000	1999	18
Street View	Variable		19

## Historical Map - Slice A



## Order Details

Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 1000

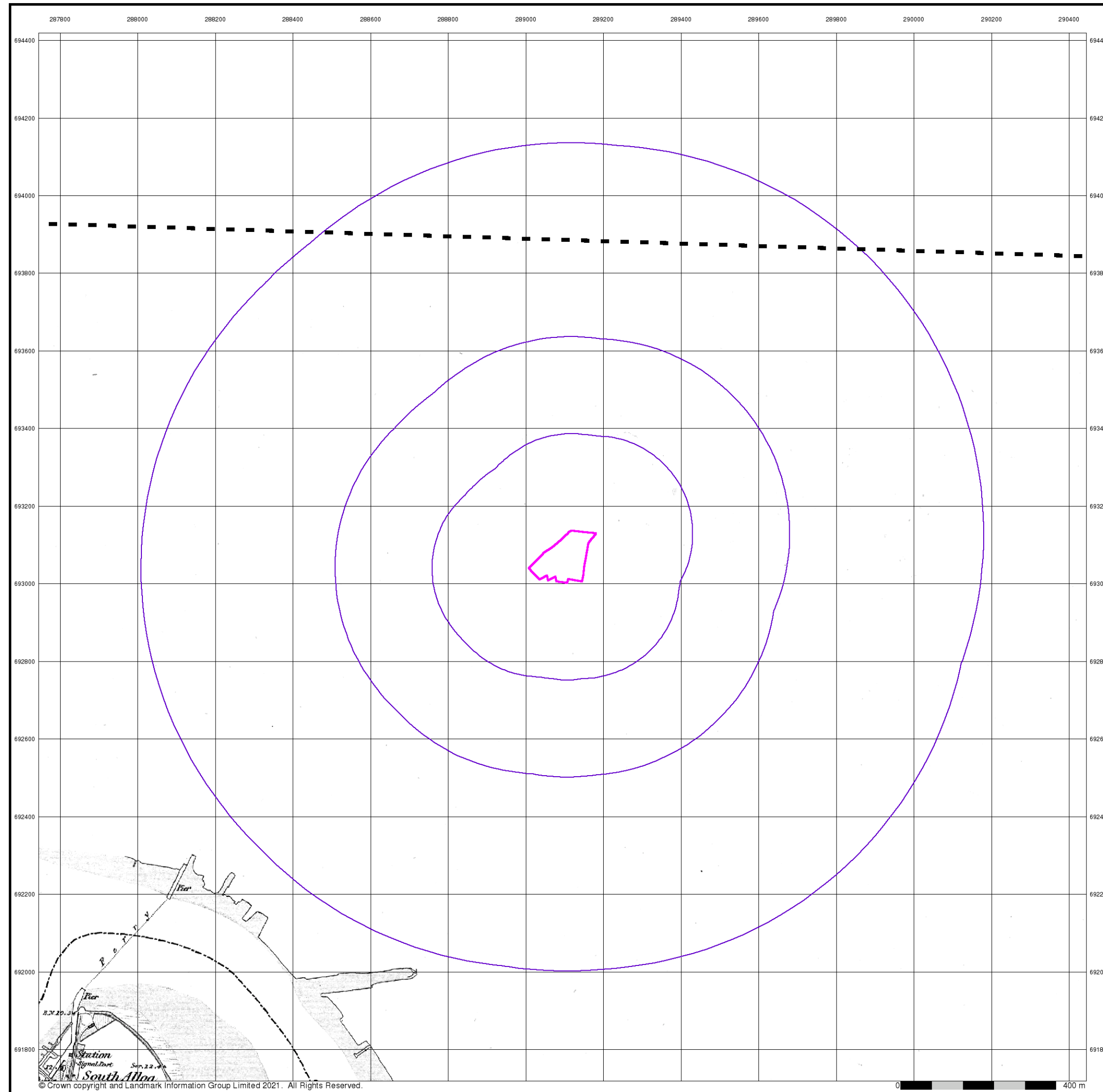
## Site Details

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**Stirlingshire**

**Published 1865**

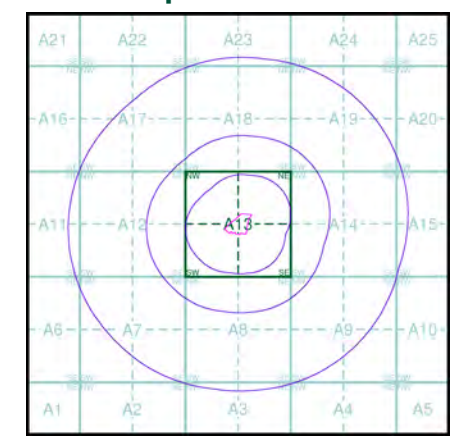
**Source map scale - 1:10,560**

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)**

01100	1865	1:10,560
01800	1865	1:10,560

**Historical Map - Slice A**



**Order Details**

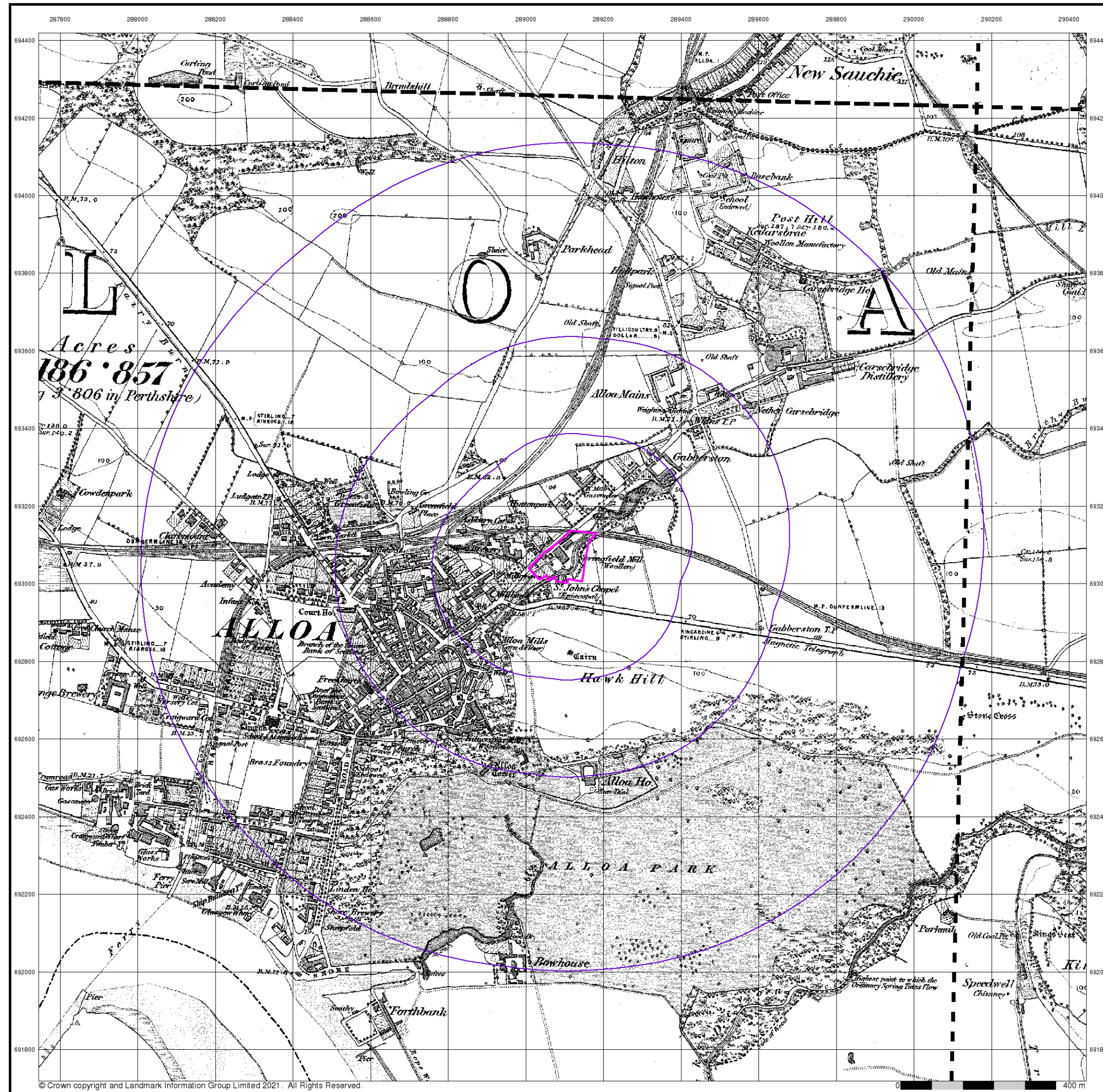
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 Customer Ref: P17-107  
 National Grid Reference: 289100, 693070  
 Slice: A  
 Site Area (Ha): 1.34  
 Search Buffer (m): 1000

**Site Details**

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Perthshire

Published 1866

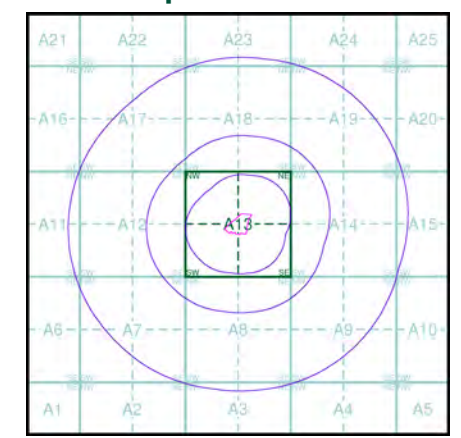
Source map scale - 1:10,560

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)

13300 1866 1:10,560	13400 1866 1:10,560
13900 1866 1:10,560	14000 1866 1:10,560

Historical Map - Slice A



Order Details

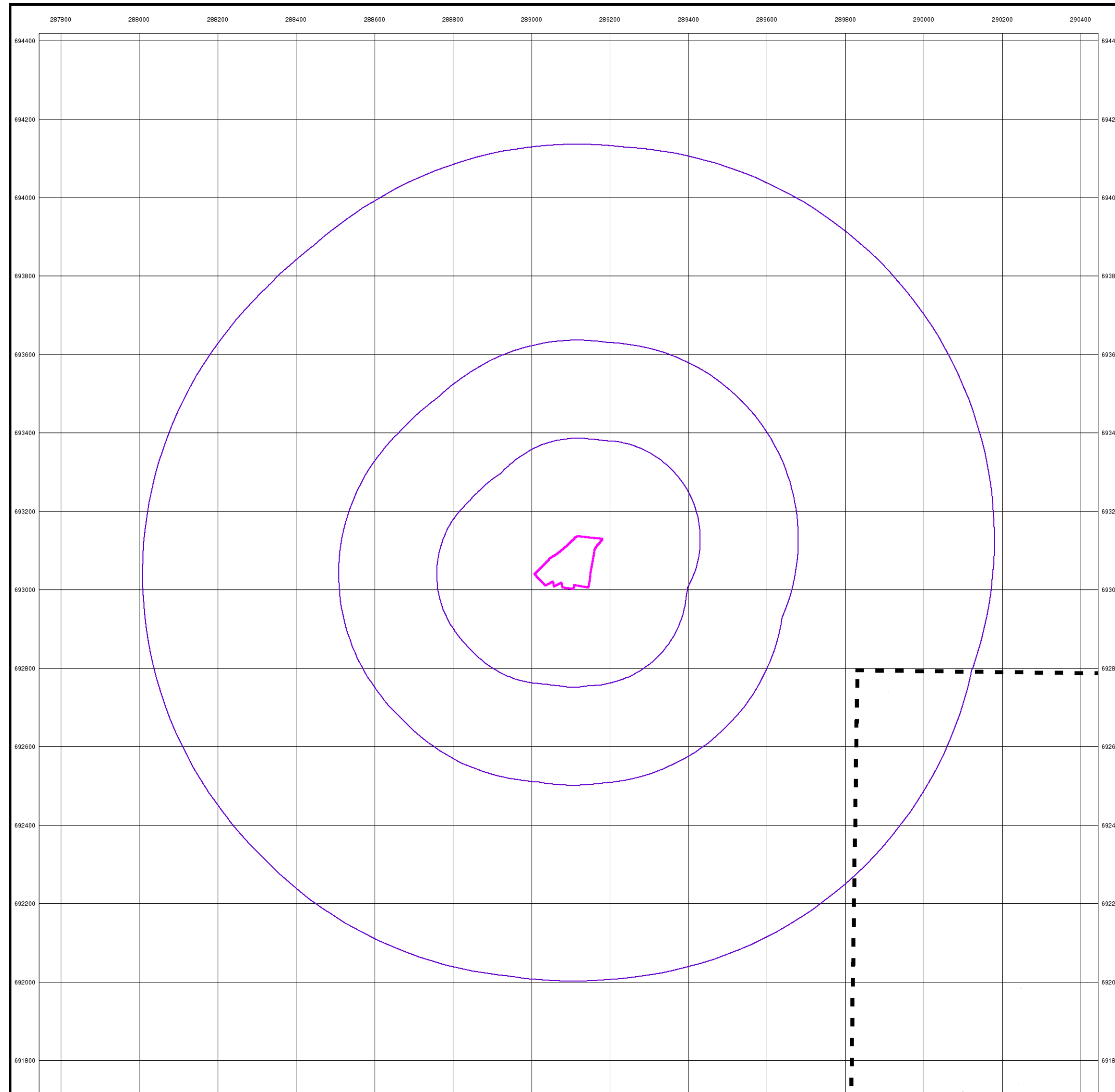
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 Customer Ref: P17-107  
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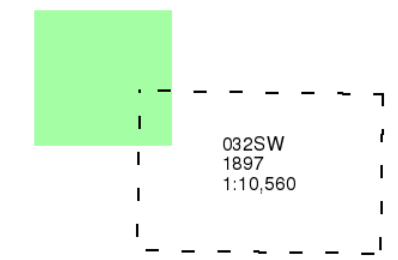
## Fifeshire

Published 1897

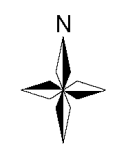
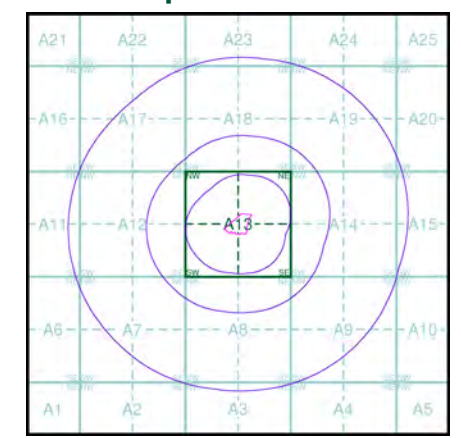
Source map scale - 1:10,560

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



### Historical Map - Slice A



### Order Details

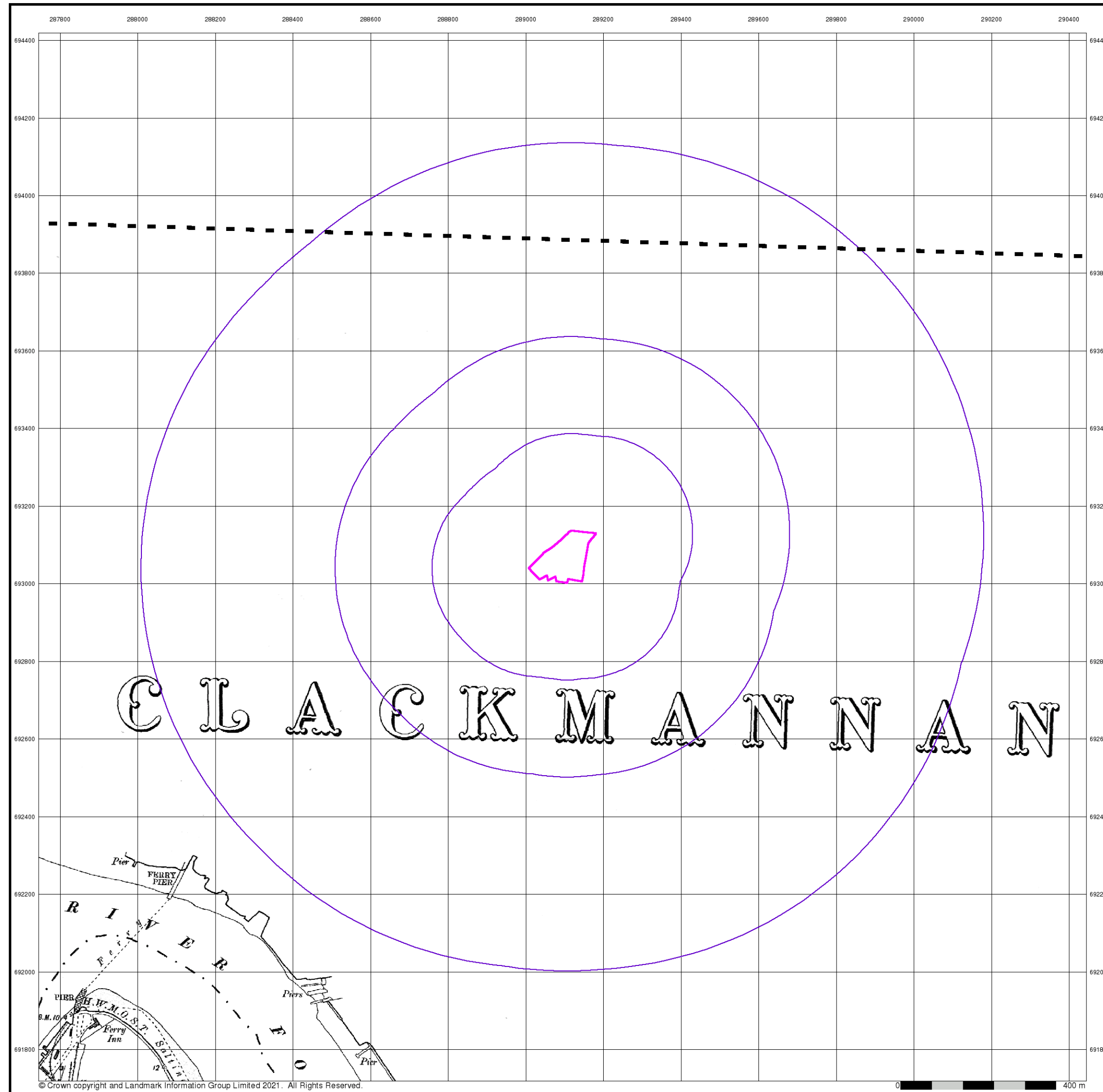
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 Slice: A  
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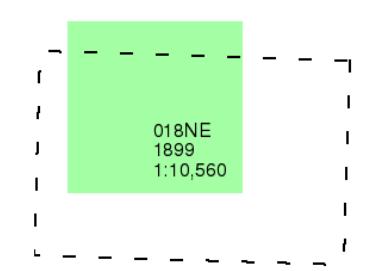
**Stirlingshire**

**Published 1899**

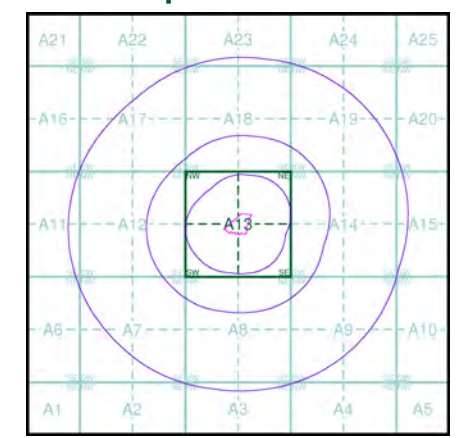
**Source map scale - 1:10,560**

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

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



**Historical Map - Slice A**



**Order Details**

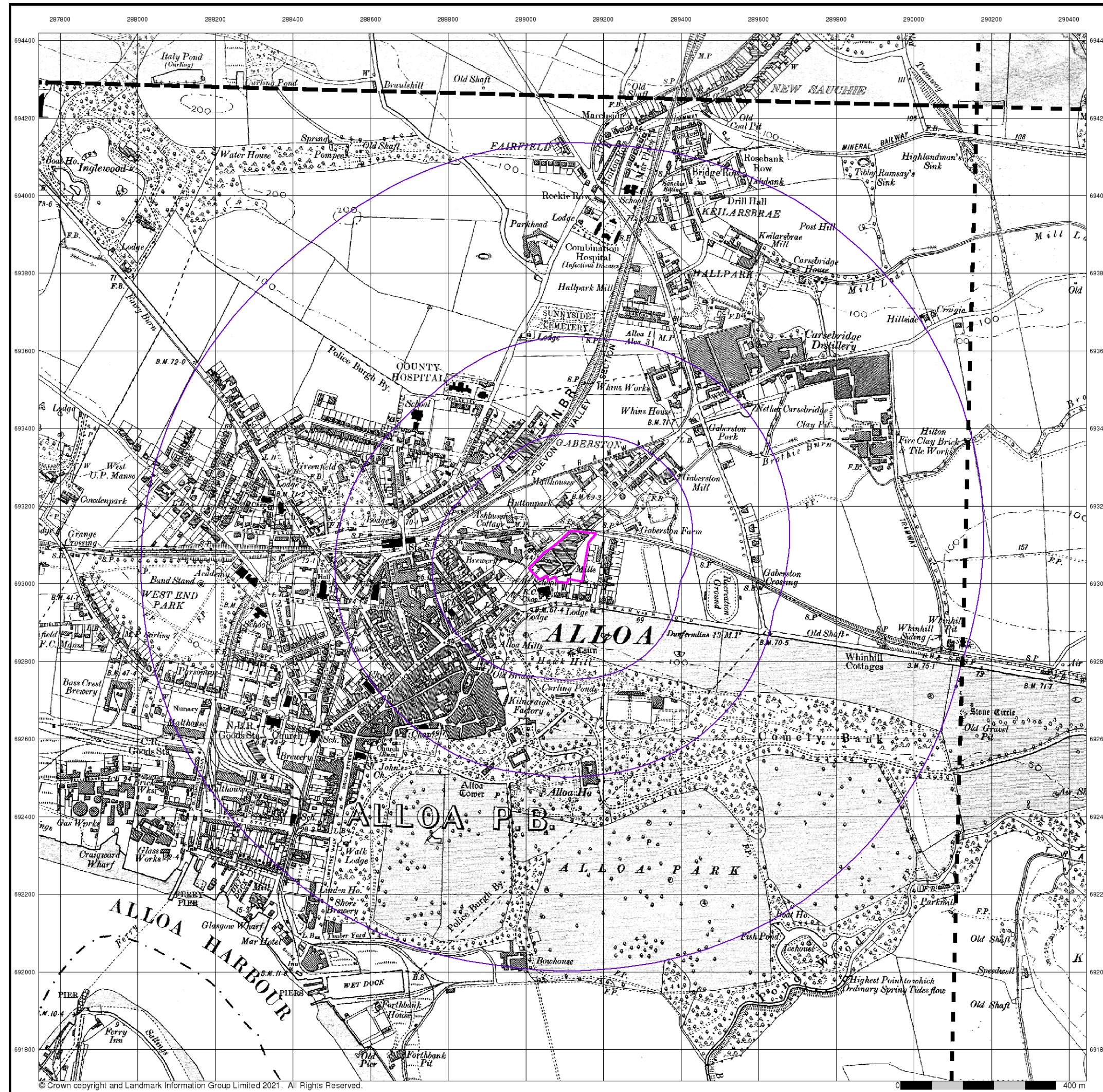
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 Site Area (Ha): 1.34  
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Perthshire

Published 1901

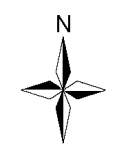
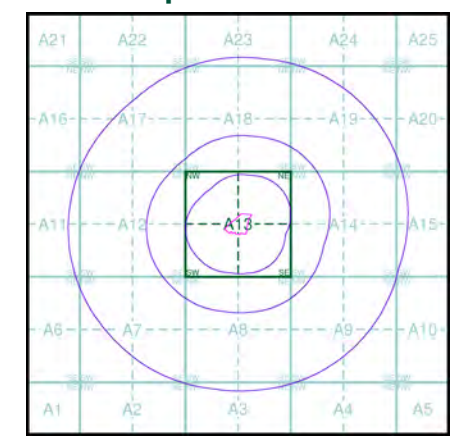
Source map scale - 1:10,560

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Map Name(s) and Date(s)

133SE 1901 1:10,560	134SW 1901 1:10,560
139NE 1901 1:10,560	140NW 1901 1:10,560

Historical Map - Slice A



Order Details

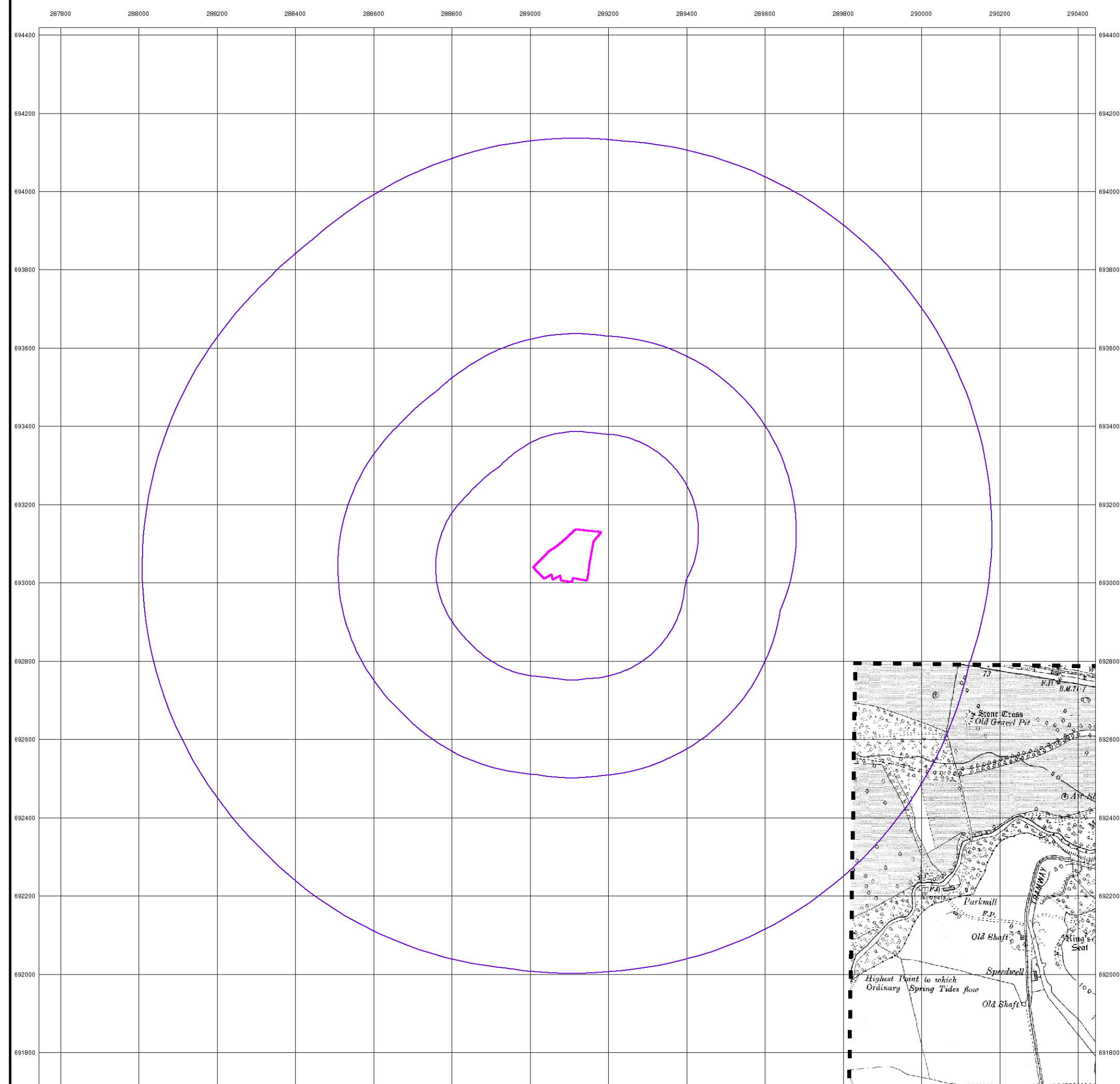
Order Number: 286910639\_1\_1  
 Customer Ref: P17-107  
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 Slice: A  
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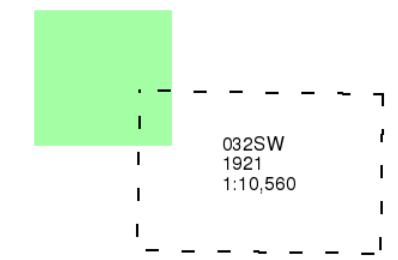
## Fifeshire

Published 1921

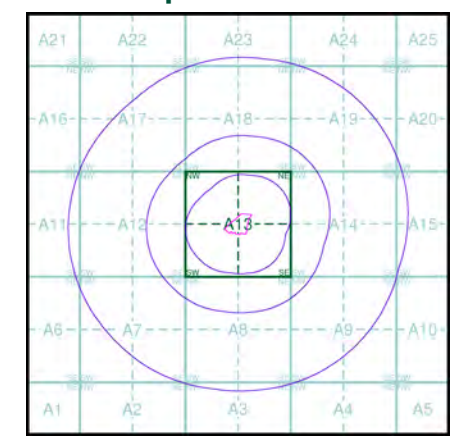
Source map scale - 1:10,560

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)



### Historical Map - Slice A



### Order Details

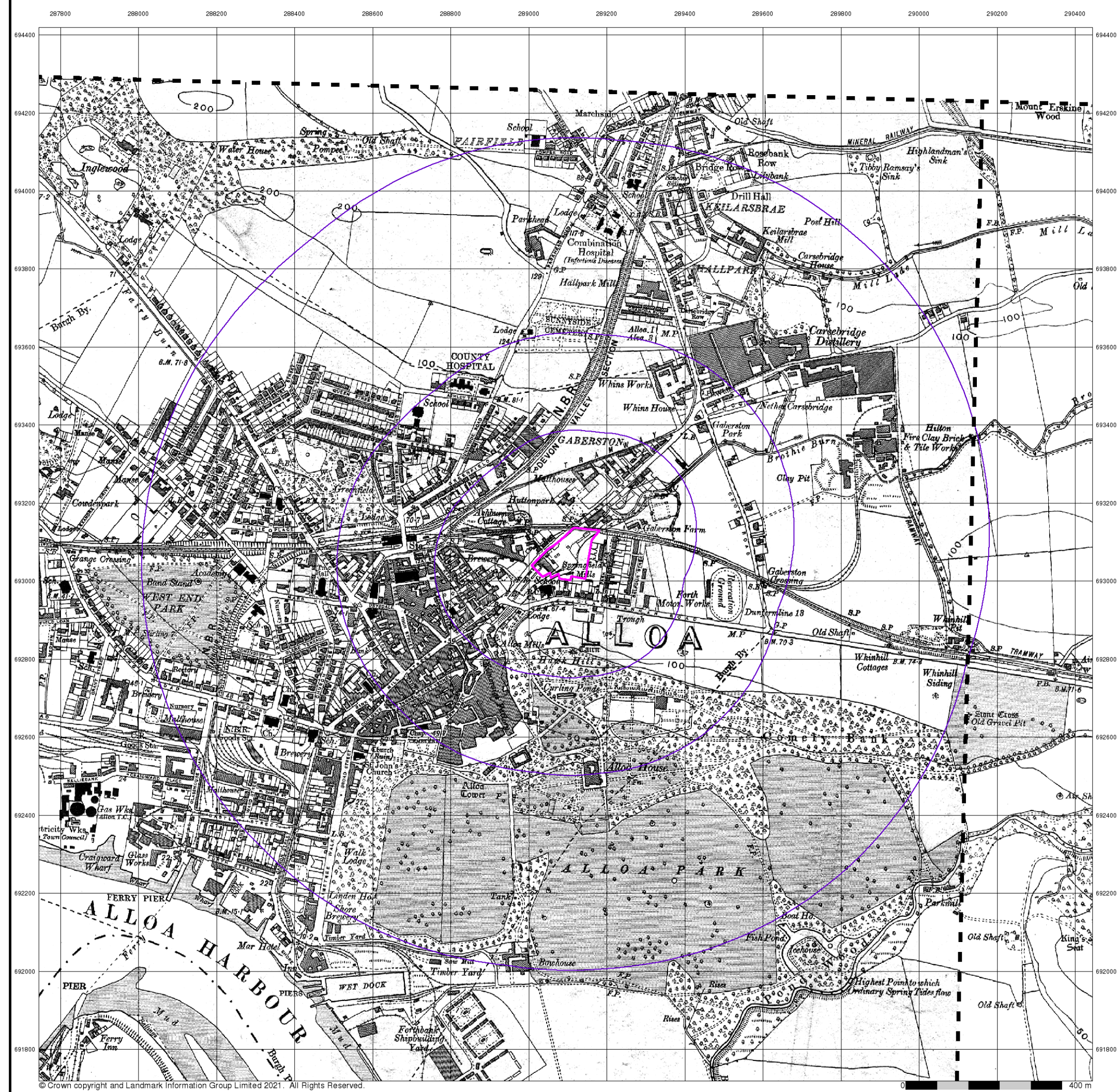
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 Site Area (Ha): 1.34  
 Search Buffer (m): 1000

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## Perthshire

Published 1924

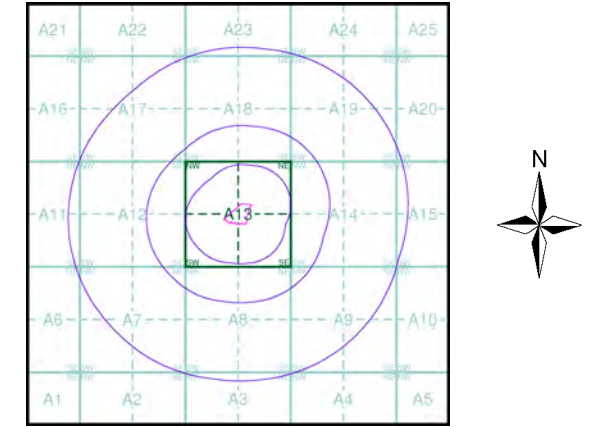
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

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

13900	14000
1924	1924
1:10,560	1:10,560

### Historical Map - Slice A



### Order Details

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