Barnsley Road, Cudworth, Barnsley

Phase I Geo-Environmental Assessment

For

Aldi Stores Ltd

Report Ref	Issue	Prepared by	Date	Reviewed by	Date
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Barnsley Road, Cudworth, Barnsley

Phase I Geo-Environmental Assessment

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EXECUTIVE SUMMARY

Land Use	The site is open and vacant land comprising poorly maintained asphalt hard standing overgrown with coarse vegetation.
Site history	The site has previously been occupied by a residential property (Carr House) and Council offices and depot. The site was cleared during the 1990s and has remained vacant since. The garage immediately east of the site appears to be constructed during the 1970s/80s and includes a tank which is located some 15m from the site boundary. There are no other potentially contaminative historical land uses within the vicinity of the site.
Environmental setting	• Geological information indicates the site is underlain directly by Middle Coal Measures bedrock including possible shallow coal seams. • No landfills recorded within 250m. • The nearest watercourse is a stream located some 600m to the west. • The underlying strata are classed as a Secondary A aquifer. • There are 2 surface water abstraction licenses 920m south west (industrial). • There are no discharge consents within 250m. • Radon protection measures are not required for future developments. • There is 1 Local Authority pollution prevention control within 250m although none on the site itself.
Contamination	Based on the site history and walkover survey, it is considered that the site presents a low to medium environmental risk with respect to contamination.
Mining	The Coal Authority record workings in 7 seams of coal at 280m to 730m depth and believes that the site is in an area there is coal at or close to the surface which may have been worked at some time in the past. It is possible that the Sharlston Low and Sharlston Top coal seams lie beneath the site at shallow depth and may have been worked at some point in the past. Damage claims for alleged subsidence to properties in the immediate vicinity of the site have previously been received by the Coal Authority.
Ground Gas	Ground gas risk from made ground on site is considered low. However, in view of the potential presence of shallow coal seams or workings and presence of made ground from historical development, the gas risk should be investigated further.
Foundations	It is likely that the site will be suitable for shallow strip or trench fill footings founded in competent natural drift (if present) or shallow bedrock. Foundations should extend below made ground and any former foundations. The depth of foundations in cohesive soils should take account of the presence of mature and semi-mature trees and hedges on the site.
Ground Investigation	A ground investigation is required to confirm the site conditions. This should include as a minimum: trial pits or mini-percussive boreholes, rotary drilling to establish the mining risk, gas monitoring installations, geotechnical and chemical laboratory analysis.

1 INTRODUCTION

1.1 3e Consulting Engineers Ltd (3e) were commissioned by Aldi Stores Ltd to carry out a Phase I Geo-Environmental assessment of land of Barnsley Road in Cudworth, Barnsley. This report highlights ground related environmental and geotechnical considerations in relation to the proposed development which includes the construction of supermarket store with associated car parking as indicated on the outline site plan included in **Appendix A**.

1.2 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 proposed development.
- To determine if historical or current activities could give rise to significant ground 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.

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

1.4 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 be redeveloped for a commercial end use.

1.5 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.

1.6 This report has been prepared for the sole use of Aldi Stores Ltd. 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 is centred on National Grid Reference 438760, 409260 and located approximately 5 km north east of Barnsley town centre within Cudworth town centre and north west of Barnsley Road. A location plan is included as **Figure 1**.

2.2 The site is irregular in shape, occupying an area of approximately 0.5Ha and lies at an elevation of approximately 72m AOD. A site inspection was undertaken on the 20 September 2012.

2.3 The site is open and vacant land comprising poorly maintained asphalt hardstanding overgrown with coarse vegetation. Levels fall steadily to the south west. During the walkover, no evidence of any significant sources of potential contamination was encountered, however an area of fly tipping is present within the north western part of the site comprising domestic rubbish, bathroom fittings and timber.

2.4 The extreme north western corner of the site is densely overgrown with coarse vegetation and bushes with mature trees along the boundary. Elsewhere, bushes and semi-mature trees are present along the northern and western boundaries. The wooden fence along the southern boundary adjacent to Barnsley Road is partially broken, providing easy access onto the site.

2.5 The north eastern corner of the site comprises a residential property and open land beyond to the north.

2.6 Residential properties are present to the north and immediately east is a frozen food store (formally a library) and a garage (vehicle service and repairs). Barnsley Road with residential properties beyond are located to the south with Cudworth Methodist Church and The Cudworth Centre (NHS services) to the west.

2.7 Photographs of the site are included as **Figure 2**.

3 SITE HISTORY

3.1 In order to establish the history of the site an inspection of historical maps, dating between 1854 and 2012 and obtained as part of an Envirocheck report has been made (Ref. 41547908_1_1 dated 24 September 2012). A summary of the information is provided below and a copy of the maps is included as **Appendix B**.

Map Dates	On-Site Features	Relevant Off-Site Features
1854 - 1931	Carr House (assumed residential) occupies the southern part of the site. The remainder of the site comprises open fields and woodland.	A Methodist church is present immediately west. Some residential properties are present to the south and east.
1931 - 1962	The southern and western parts of the site are occupied by Cudworth Council offices. Carr House is no longer present. The northern and eastern part of the site remains undeveloped.	The residential area to the south and east has been extended and a Sunday school and YMCA centre has been constructed immediately west. A swimming pool has been constructed some 60m north west.
1962 - 1977	View (housing) has been constructed in the eastern part of the site.	No significant change Park
1977 - 1993	The northern part of the site is indicated to be a Council Depot.	The garage appears to have been constructed some 10m east of the site. Significant residential development has occurred to the west and immediately north. Carlton House is located immediately to the west.
1993 – Present	All of the buildings appear to have been demolished and the site remains clear with the exception of Park View in the east.	Carlton House appears to be replaced by The Cudworth Centre (NHS services) after 2006. The buildings immediately north of the site are demolished and cleared by 2012.

3.2 In summary, Carr House (assumed residential) occupied the southern part of the prior to the construction of Council offices during the 1930s. The Council offices occupied the southern and western parts of the site while the northern and eastern parts remained open and undeveloped. From the 1970s the northern and eastern parts of the site are used as a depot. The council offices are demolished and the site left open and undeveloped during the 1990s.

3.3 Within the surrounding area land uses are typically residential with local services including churches, halls, swimming pool and NHS services. The garage some 10m east of the site appeared to be constructed during the 1970s/80s and includes a tank which is located some 15m from the site boundary.

4 ENVIRONMENTAL SETTING

4.1 This section is based principally upon a search of information available on public registers through an Envirocheck search (Reference 41547908_1_1) included as **Appendix C**, together with other sources as indicated.

Geology and Mining

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

Sources of Information	British Geological Survey (BGS) 1:50 000 scale map. Coal Authority Mining Report. A Coal Authority mining report is included as **Appendix D**.
Made Ground	None recorded on published maps although a small amount is likely in given the previous development.
Superficial Deposits (drift)	None indicated.
Solid Geology	Carboniferous Middle Coal Measure strata comprising undifferentiated mudstone, siltstone, sandstone and coal seams. The Sharlston Low coal seam (locally between 0.3 and 0.8m thick) and the Sharlston Top seam, also known as Cudworth Coal (locally between 0.7 and 1.1m thick) appear to sub-crop on, or in the immediate vicinity of the site, dipping to the east.
Mining	The Coal Authority record workings in 7 seams of coal at 280m to 730m depth. The seams were last worked in 1968 and any ground movement from these coal workings should have stopped by now. The Coal Authority also believes that the site is in an area there is coal at or close to the surface which may have been worked at some time in the past. It is possible that the Sharlston Low and Sharlston Top coal seams lie beneath the site at shallow depth and may have been worked at some point in the past. Damage claims for alleged subsidence to properties immediately west of the site (Methodist Church) and some 15m south have previously been received by the Coal Authority. The claim of subsidence damage to the Methodist Church was received in 1994, however the claim was rejected. The site is in an area for which a notice of entitlement to withdraw support was published in 1952.
Quarrying	None recorded on or immediately adjacent to the site.

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 controlled waters is provided below.

Watercourses	The nearest watercourse is a small stream or drain some 600m west of the site.
Flood Risk	The site does not lie within a fluvial flood plain considered to be at risk of flooding.
Groundwater Classification	Solid Geology: Secondary A aquifer. Superficial Geology: High leaching potential.
Source Protection Zones	NR
Springs	NR
Wells	NR
Licensed Surface Water Abstractions	Within 1km there are 2 surface water abstract licenses for mining processes some 920m south west.
Licensed Groundwater Abstractions	NR within 1km.
Discharge Consents	NR.
Pollution Incidents	NR.

NR – None Recorded within 500m

Landfill Sites and Waste Management

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

Local Authority Recorded Landfills	NR.
BGS / EA Recorded Landfills	NR.
Other Waste Management Facilities	NR.

NR – None Recorded within 250m

Pollution Controls and Industrial Land Use

4.5 A summary of Pollution Control records and potentially polluting activities (fuel stations) is provided below.

Integrated Pollution Controls (IPC)	NR.
Integrated Pollution Prevention and Control (IPPC)	NR.
Pollution Prevention and Controls (PPC)	1 Local Authority PPCs within 250 metres relating to a dry cleaners some 67m south west.
Petrol Filling Stations	NR within 500m

NR – None Recorded within 250m

Radon

4.6 Inspection of the BRE publication BR211 (2007), "Radon: Guidance on protective measures for new buildings" and British Geological Survey, National Geoscience Information Service indicates that the site lies in an area where radon protection measures are not required.

Other

Other sensitive land uses or potentially contaminative activities are listed below. The entries relate to activities within approximately 250m of the site.

- The site lies within a nitrate vulnerable zone (NVZ), although this will not have any bearing on redevelopment.
- 7 Contemporary Trade Directory entries, the closest recorded 58m east.
- An area of Adopted Greenbelt lies 181m west.
- No other contaminative activities recorded.

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 CLR 8, the Department of the Environment Industry Profile reports and any other relevant supporting documentation.

5.2 It is proposed to construct an Aldi supermarket with associated hard standing and occasional small areas of soft landscaping as indicated 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 current and historic activities – imported made ground associated with the former council buildings/depot.
- Off site sources of contamination from the garage (and tank) some 10m east.
- Hazardous gas from potential shallow coal workings.

Potential Pollution Pathways

- Humans – direct contact, soil ingestion and dust inhalation.
- Secondary A Aquifer – leaching and vertical migration of contamination.
- Lateral migration off site into nearby watercourses and adjacent property.
- Lateral migration onto site from the nearby garage (and tank).
- Vertical and lateral migration of ground gas into buildings and service entries (manholes).
- Direct contact of aggressive soils with building foundations and floor slabs.

Receptors

- Site end users (staff and customers).
- Construction workers.
- Underlying Aquifer (Secondary A).
- Building foundations and floor slabs.

5.3 The nearest watercourse is some 600m west of the site. Given this distance, it is unlikely to be impacted by any contamination on the site.

Pollutant Linkage Assessment

5.4 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 made ground on site	Direct contact, ingestion, dust inhalation	Human health risk	Site construction workers	Yes, but can be removed by the use of appropriate PPE and limited exposure
	Direct contact, ingestion, dust inhalation	Human health risk	Site end users	Unlikely, as the site will mainly comprise buildings and hard standing. Any exposure through areas of soft landscaping will be transient.
	Lateral and vertical migration	Pollution of controlled waters	Secondary A aquifer	Unlikely as significant contamination is not anticipated and the indicated presence of glacial clays will restrict flow towards the aquifer.
	Lateral and vertical migration	Pollution of adjacent properties	Adjacent property	Unlikely as significant contamination and free product is not anticipated.
Contaminants associated with off site sources	Lateral migration	Human health risk	Site end users	Possible. The adjacent garage is a potential source of hydrocarbon contamination which may have migrated onto site and could pose a vapour risk to the end user.

5.5 At this stage, significant on site contamination is not anticipated, however, there is a possible hydrocarbon vapour risk associated with the adjacent garage and tank (assumed for storing fuels or oils).

6 ENVIRONMENTAL RISK ASSESSMENT

6.1 The potential environmental risk has been assessed based on the 'source-pathway-target' 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 controlled waters.

- **Medium risk** – it is possible that an issue could arise with respect to causing significant harm to human health or controlled waters.

- **High risk** – it is likely that an issue will arise with respect to causing significant harm to human health or controlled waters.

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**
Contamination potential for:		
On-site contamination	Low	No evidence of contaminative site usage.
Contaminants migrating off site	Low	No evidence of contaminative site usage.
Contaminants migrating onto site	Low - medium	Hydrocarbon contamination associated with the near-by garage cannot be ruled out at this stage.
Other environmental issues giving rise to concern	Low	None identified.
Environmental consequences:		
OVERALL RISK	**Low - Medium**	

6.3 Based on the above information gained through the Envirocheck report, the risk of ground gas emissions is considered to be low to moderate. The following summarises the gas risk for the site:

Potential Gas Source	Hazard	Risk Rating	Justification
Made ground (CH_4, CO_2)	Humans: health risk Buildings: explosion	Low to moderate	Significant or putrescible made ground is not anticipated on the site but the site has a long history of development and the nature and/or thickness of made ground is unknown.
Coal and historical mining	Humans: health risk Buildings: explosion	Low to Moderate	Shallow coal seams, potentially worked, may be present beneath the site.
Radon	Humans: health risk	N/A	No precautions required.
Overall Risk		**Low to Moderate**	

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 geological maps indicate possible shallow coal seams beneath the site and it is recommended that a rotary drilling investigation is carried out to confirm the geology with respect to shallow (<30m) coal seams.

Foundations

7.3 Conventional pad, strip or trench fill foundations are likely to be suitable. It is anticipated that the site is underlain by thin deposits of made ground overlying shallow bedrock. Made ground is considered unsuitable as a bearing stratum using conventional shallow spread foundations due to the potential for excessive total and differential settlements. Foundations should therefore extend below the made ground and any historical foundations to bear onto competent natural drift deposits (if present) or shallow bedrock. The depth of foundations in cohesive soils should take account of the presence of mature and semi-mature trees and hedges on the site. Detailed foundation requirements should be assessed following a ground investigation.

Pavements

7.4 It is anticipated, subject to a ground investigation, that standard construction techniques can be utilised.

Gas Protection Measures

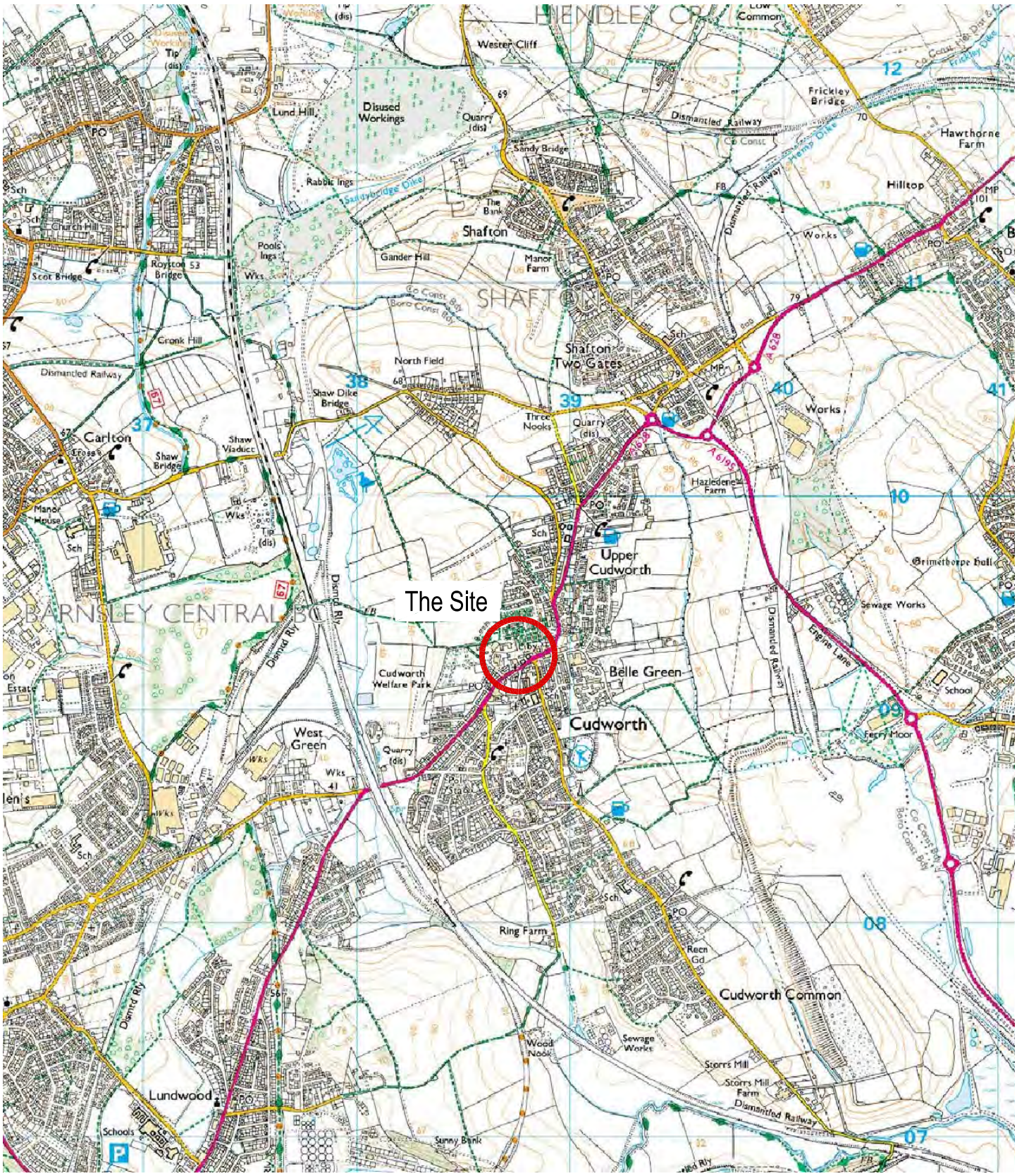
7.5 The preliminary ground gas risk assessment identifies that there is a low to medium risk to the development from ground gas due to shallow coal seams or subsurface mining and a nearby infilled pond/water feature. Gas monitoring will be required prior to construction.

8 FURTHER INVESTIGATIONS

8.1 An intrusive investigation will be required for the proposed development to address the ground related issues discussed above. A summary of the likely scope of works, which should not be taken as an exhaustive list, is provided below.

- Mini percussive drilling and/or trial pits to allow the recovery of samples for laboratory testing and establish the geological profile within the likely foundation depth.
- Rotary drilling to confirm the depth of shallow coal seams and presence of workings.
- Installation of gas monitoring standpipes and monitoring in accordance with guidelines published in CIRIA C665.

Figures



Date	Revision	Checked	Rev.

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Project	Barnsley Road, Cudworth, Barnsley for Aldi Stores Ltd		
Title	Site Location Plan		
Scale 1:25,000 at A4	Drawn JB	Checked AC	Date Sep '12
Job No. 12712	Drawing No. Figure 1		Rev 0

Photo 1

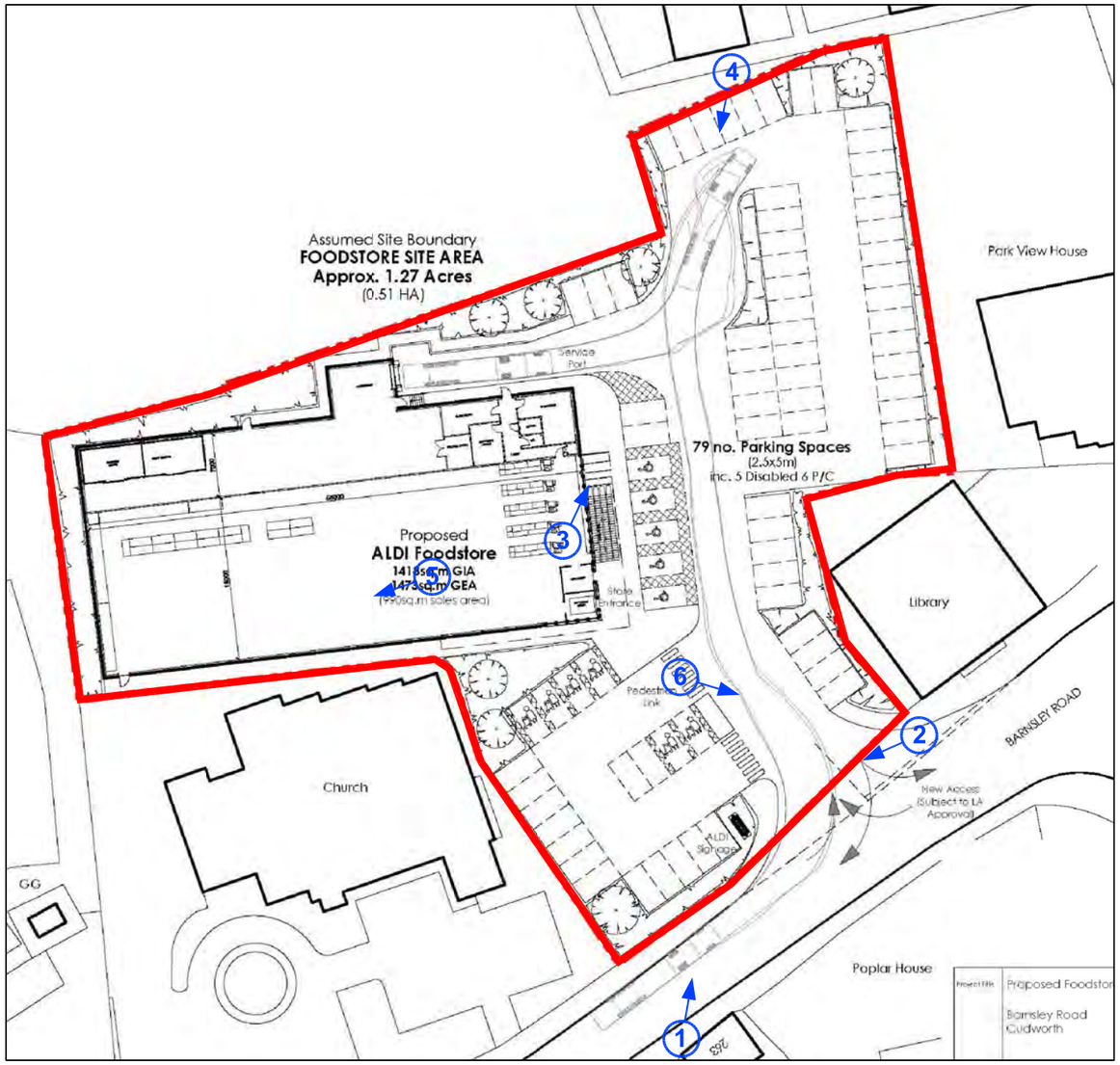


Photo 2



Photo 3





Site Boundary

Photograph Location / Direction

Photo 4



Photo 5



Photo 6



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Holland Drive
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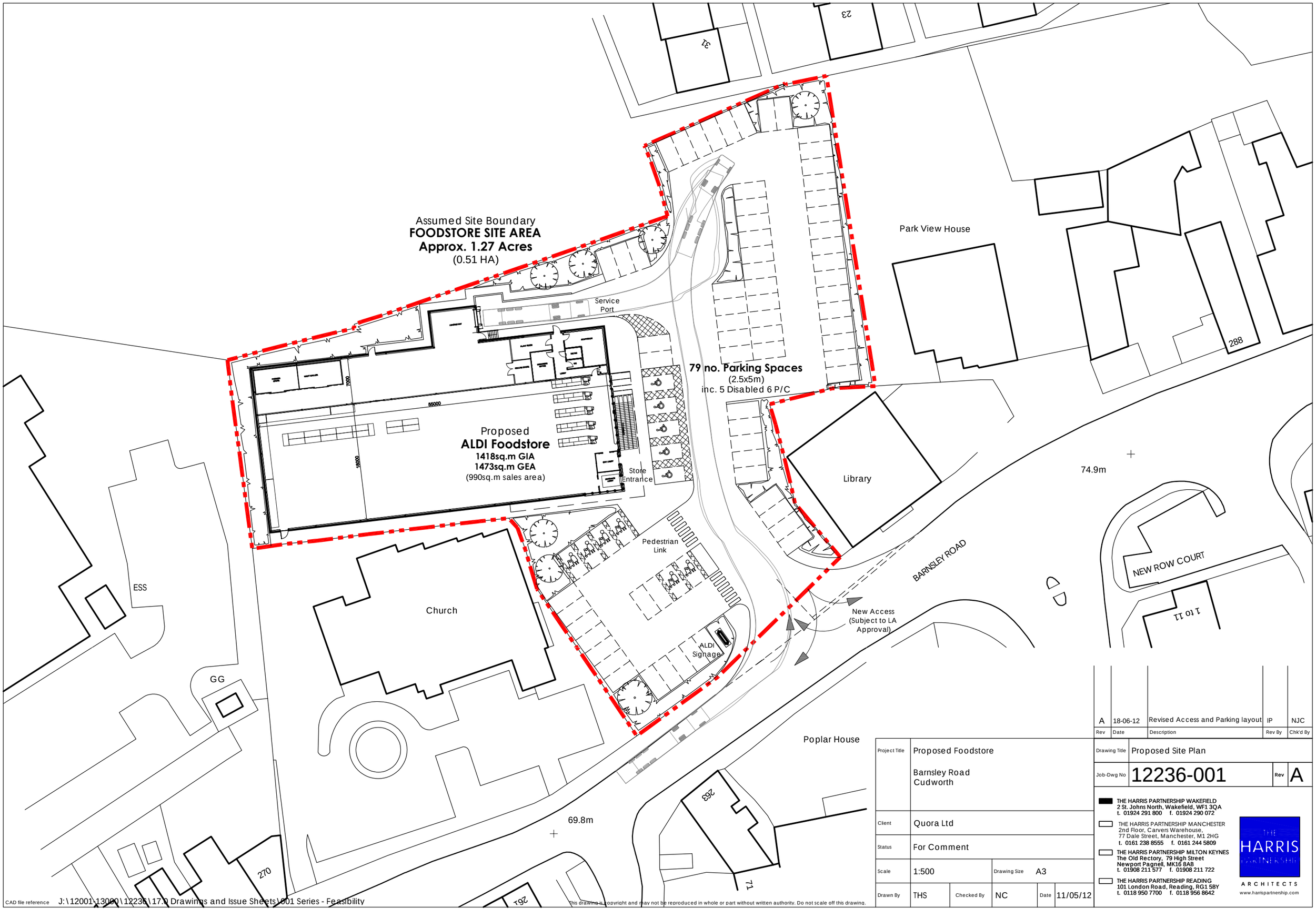
tel: 0191 230 2993
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Project: Barnsley Road, Cudworth, Barnsley for Aldi Stores Ltd			
Title: Site Photographs			
Scale: NTS	Drawn: JB	Checked: AC	Date: Sep '12
Job No.: 12712	Drawing No.: Figure 2		Rev: 0

Appendix A

Proposed Site Plan



Rev	Date	Description	Rev By	Chk'd By
A	18-06-12	Revised Access and Parking layout	IP	NJC

Project Title	Proposed Foodstore Barnsley Road Cudworth
Client	Quora Ltd
Status	For Comment
Scale	1:500
Drawing Size	A3
Drawn By	THS
Checked By	NC
Date	11/05/12

Drawing Title	Proposed Site Plan
Job-Dwg No	12236-001
Rev	A

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CAD file reference J:\12001-13000\12236\17.0 Drawings and Issue Sheets\001 Series - Feasibility

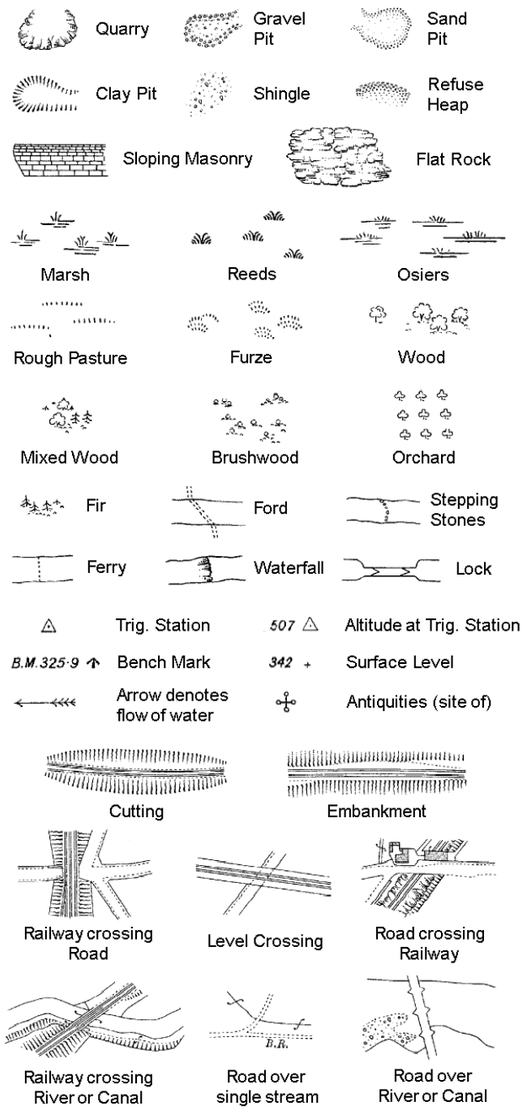
This drawing is copyright and may not be reproduced in whole or part without written authority. Do not scale off this drawing.

Appendix B

Historical Maps

Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

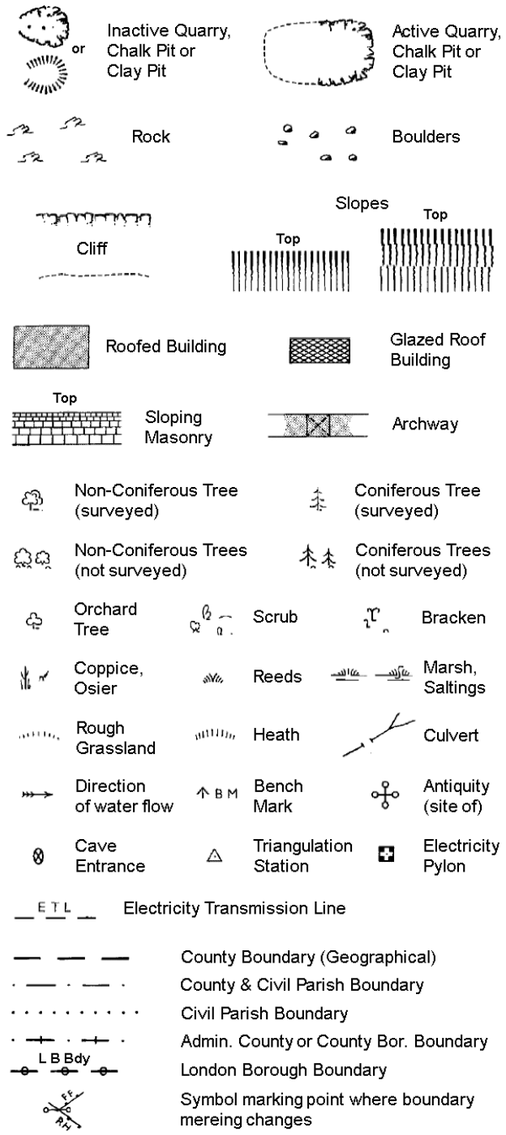
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	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	St.	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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

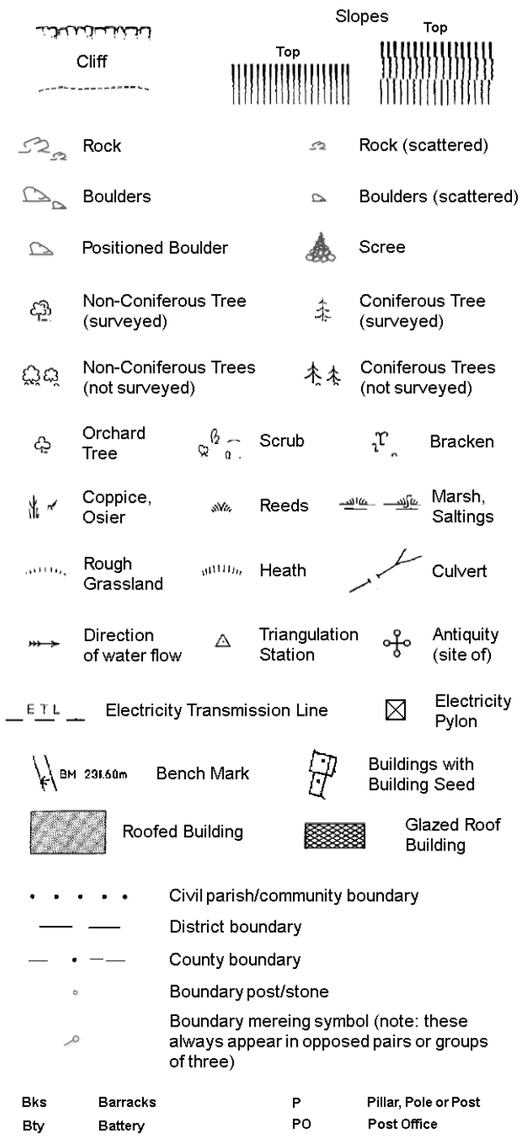
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El 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



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)

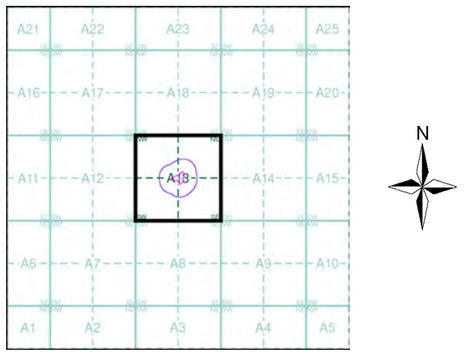
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El 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 Governer	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

consulting engineers

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1893	2
Yorkshire	1:2,500	1906	3
Yorkshire	1:2,500	1917 - 1931	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1970	6
Supply of Unpublished Survey Information	1:2,500	1975	7
Supply of Unpublished Survey Information	1:2,500	1975 - 1976	8
Ordnance Survey Plan	1:1,250	1977 - 1982	9
Additional SIMs	1:2,500	1979 - 1988	10
Additional SIMs	1:1,250	1981 - 1984	11
Additional SIMs	1:1,250	1990	12
Large-Scale National Grid Data	1:1,250	1993	13

Historical Map - Segment A13



Order Details

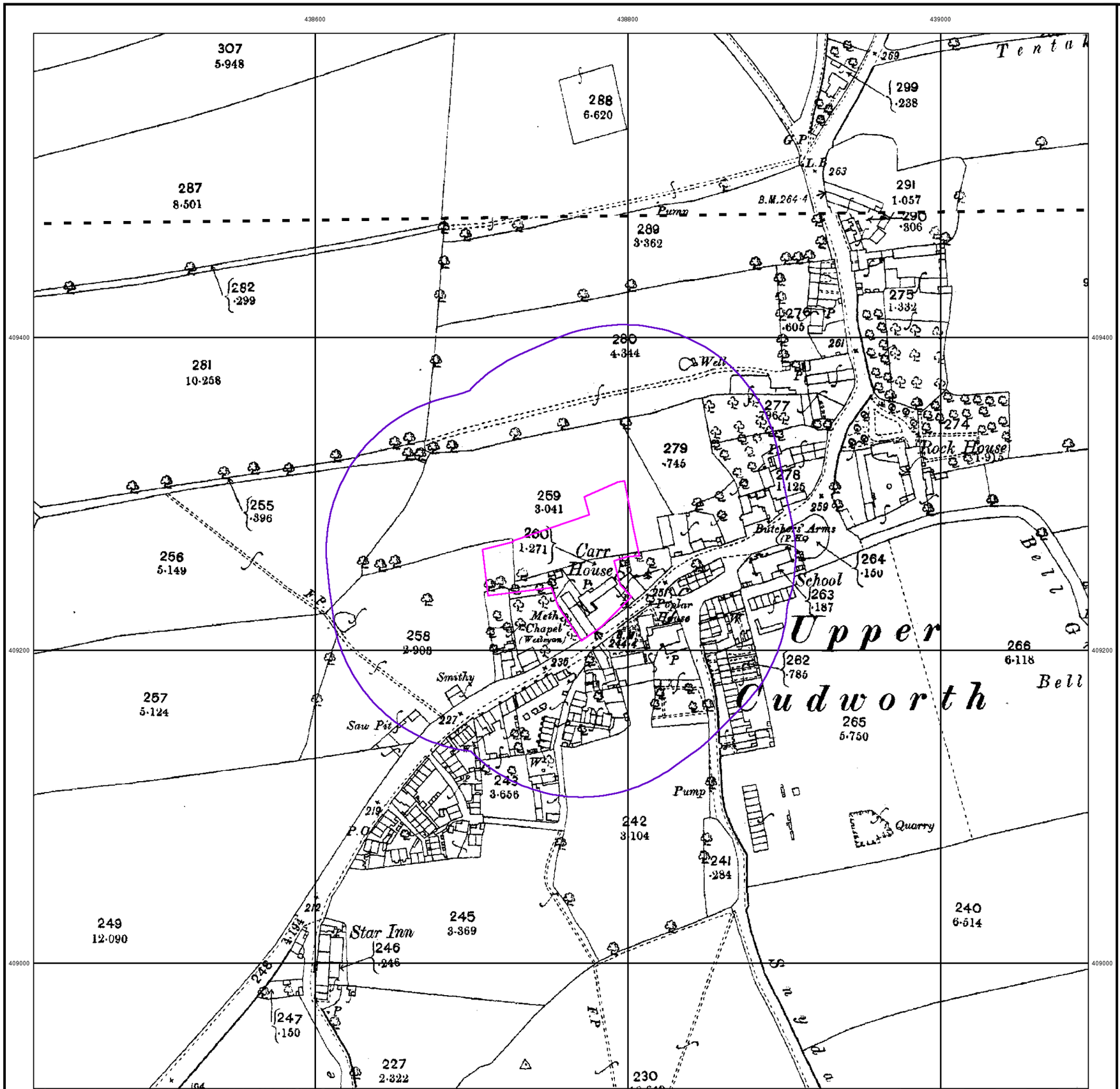
Order Number: 41547908_1_1
Customer Ref: 12712
National Grid Reference: 438760, 409260
Slice: A
Site Area (Ha): 0.51
Search Buffer (m): 100

Site Details

Proposed Aldi Store, Barnsley Road, Cudworth, Barnsley, South Yorkshire

Landmark Information Group

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



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0 100 m

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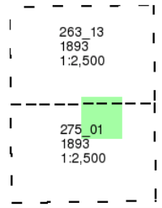
Yorkshire

Published 1893

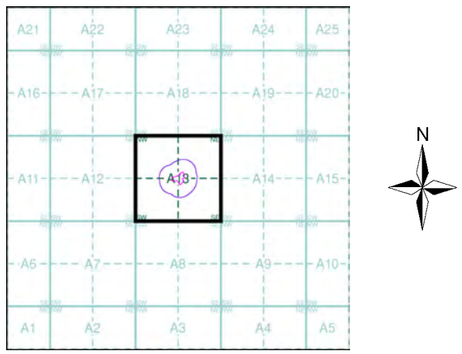
Source map scale - 1:2,500

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



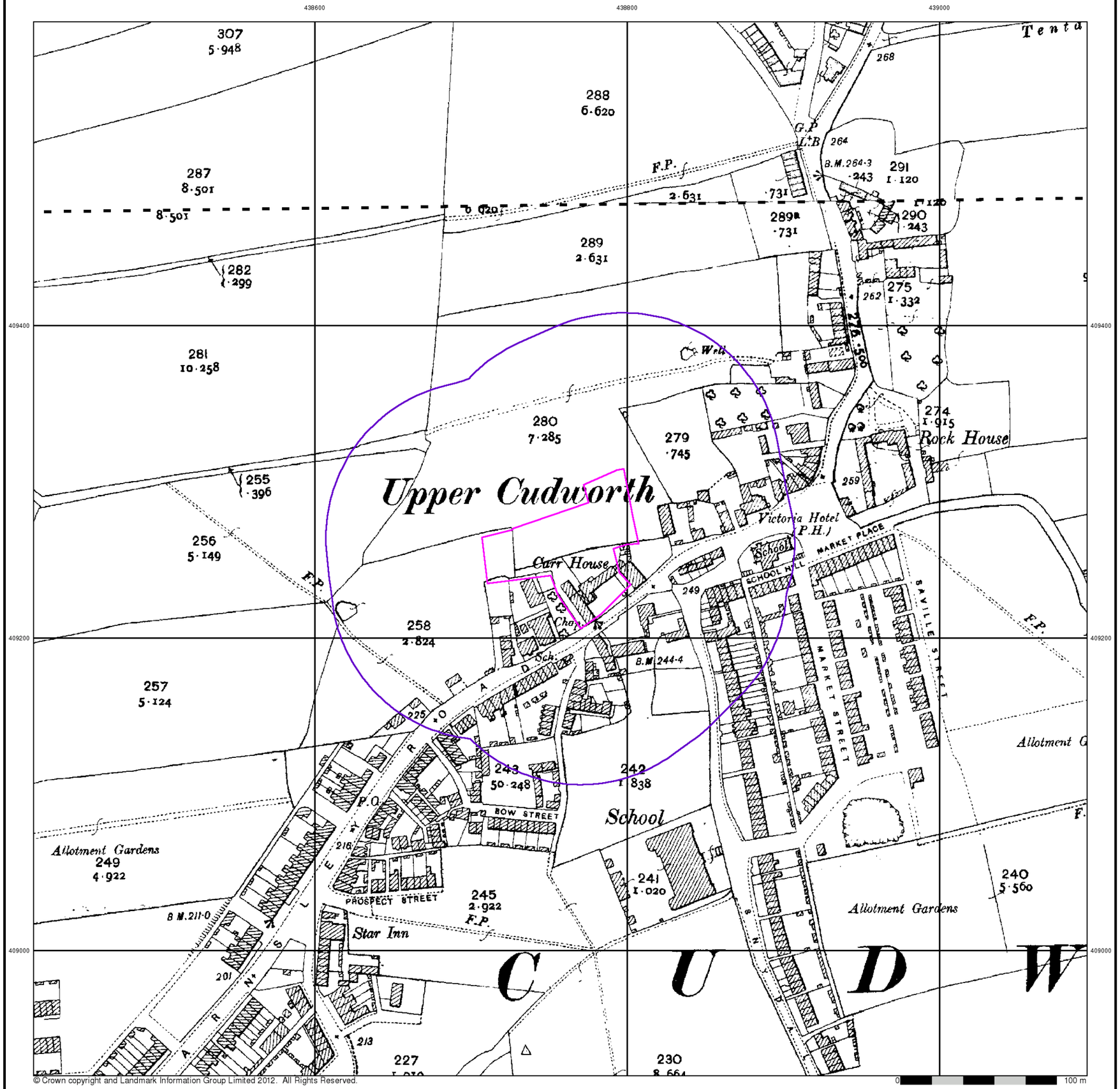
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Order Number:	41547908_1_1
Customer Ref:	12712
National Grid Reference:	438760, 409260
Slice:	A
Site Area (Ha):	0.51
Search Buffer (m):	100

Site Details

Proposed Aldi Store, Barnsley Road, Cudworth, Barnsley, South Yorkshire

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Yorkshire

Published 1906

Source map scale - 1:2,500

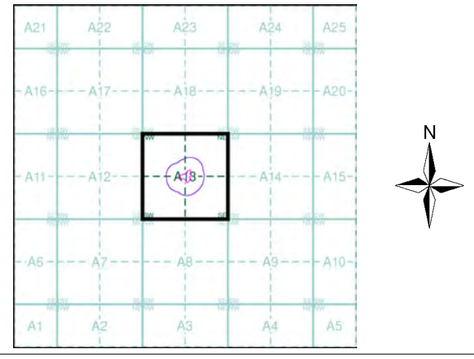
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

263_13
1906
1:2,500

275_01
1906
1:2,500

Historical Map - Segment A13



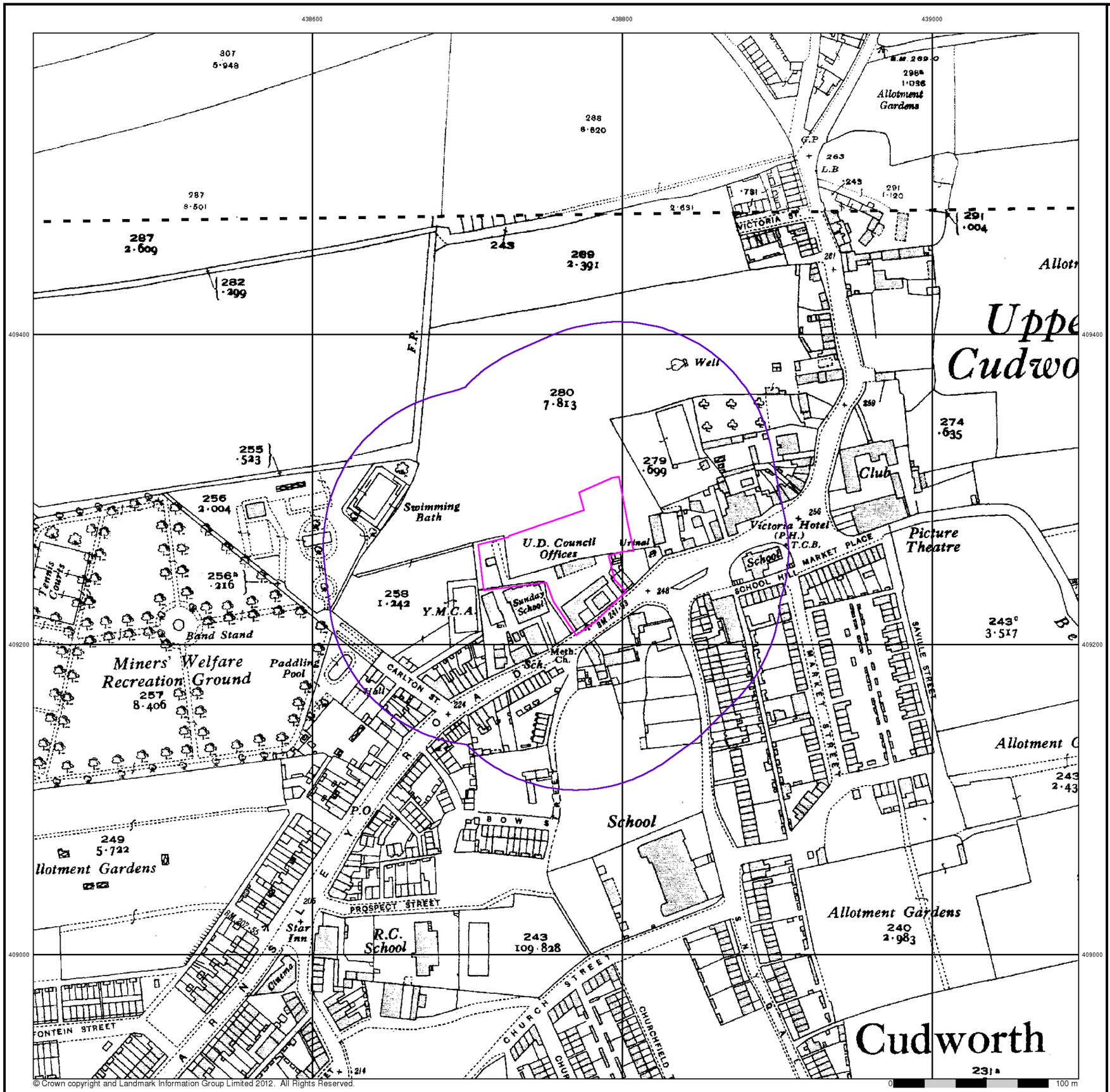
Order Details

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Yorkshire

Published 1917 - 1931

Source map scale - 1:2,500

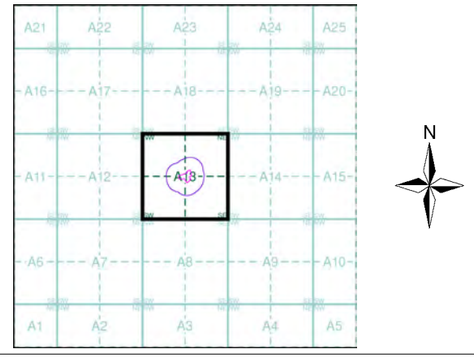
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

263_13
1917
1:2,500

275_01
1931
1:2,500

Historical Map - Segment A13



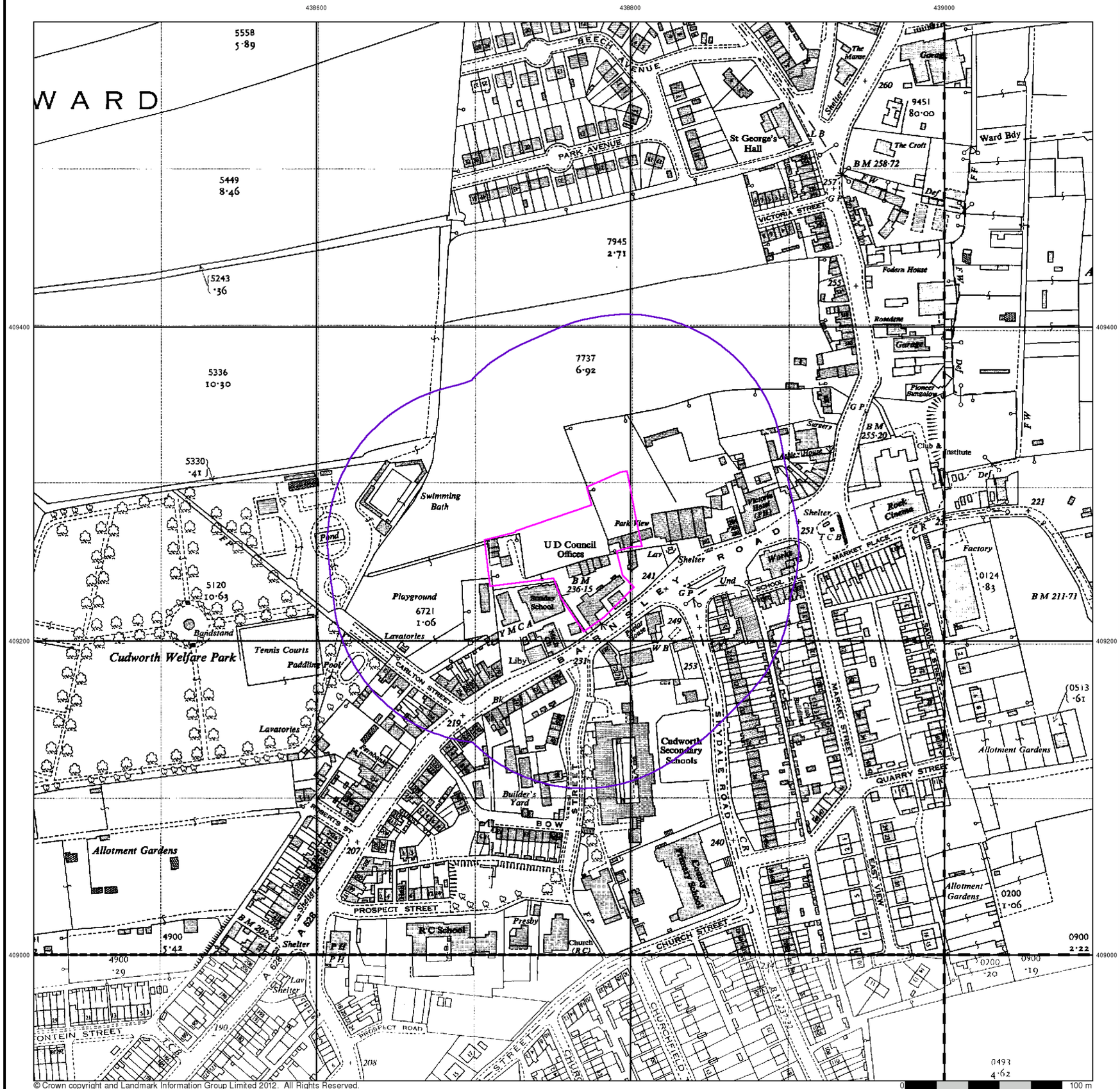
Order Details

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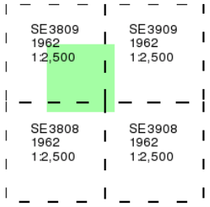
Ordnance Survey Plan

Published 1962

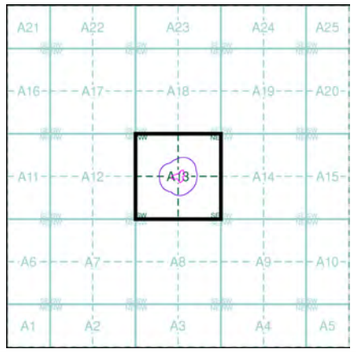
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13

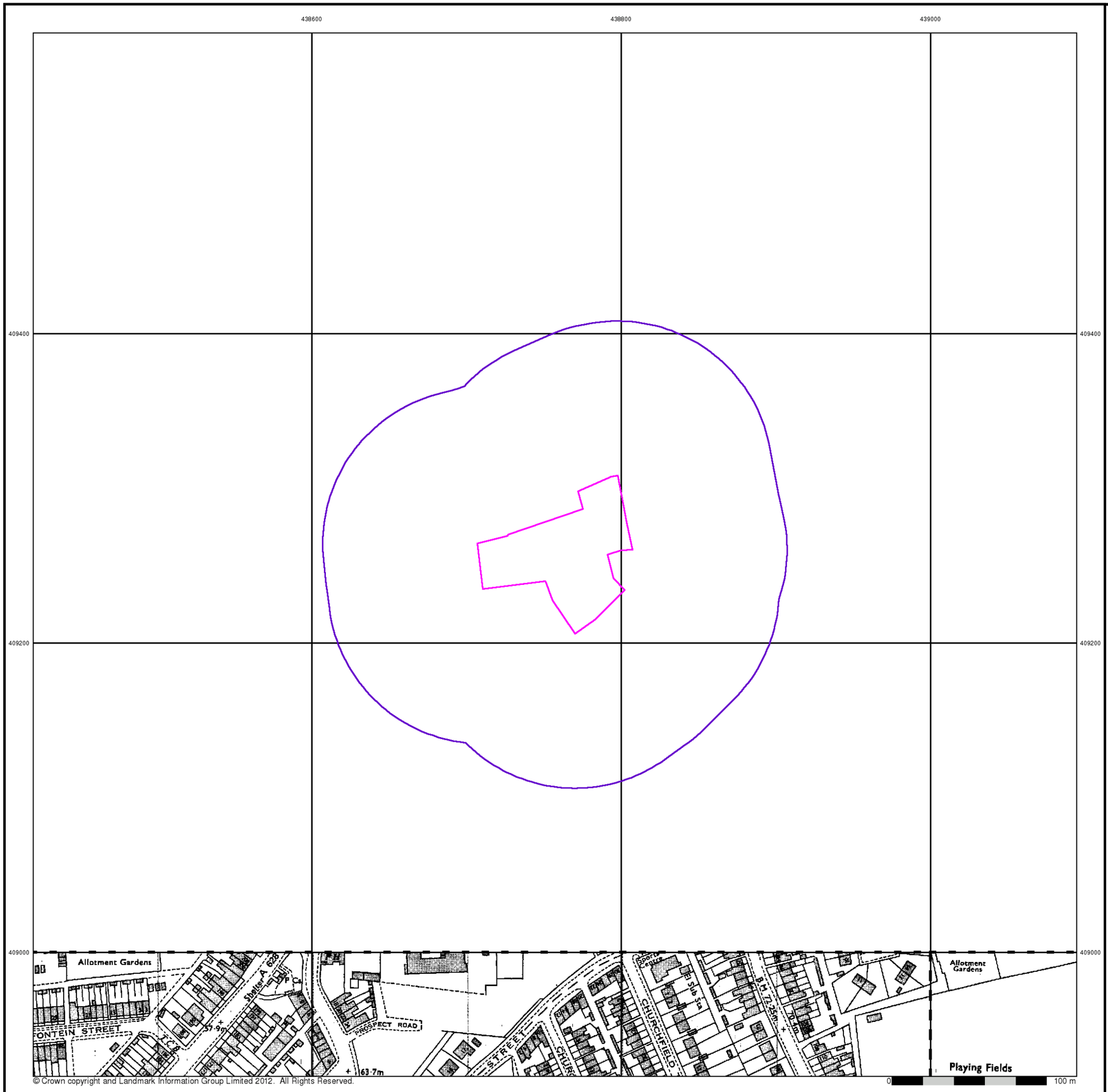


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Site Details

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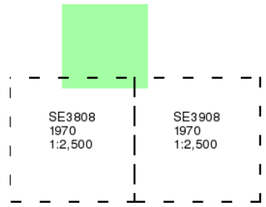
Ordnance Survey Plan

Published 1970

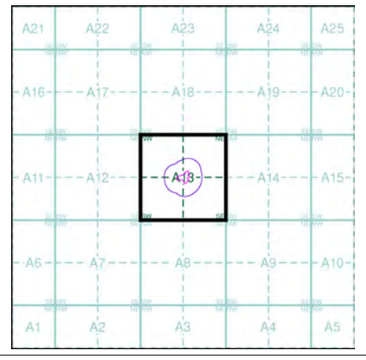
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



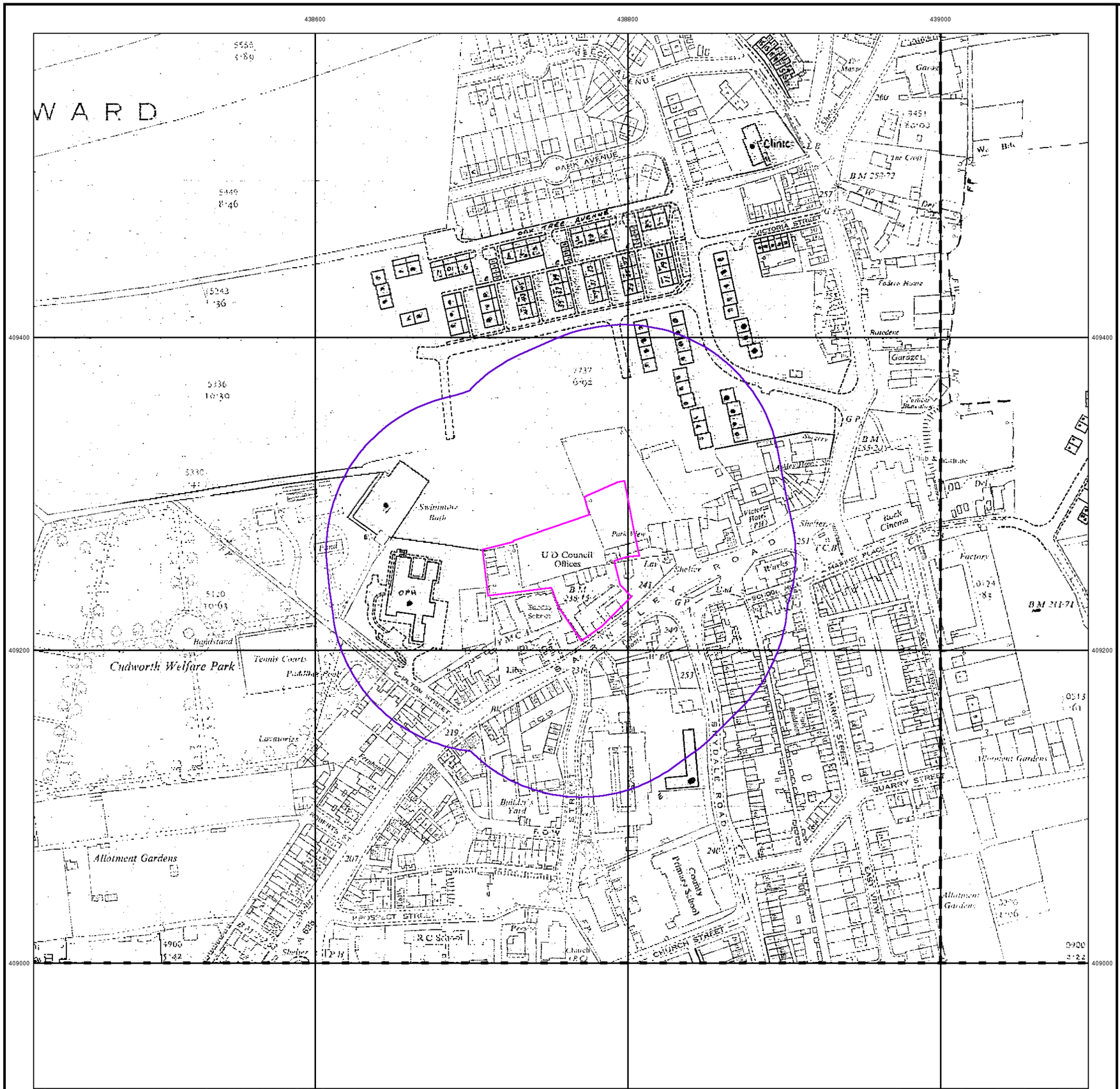
Order Details

Order Number:	41547908_1_1
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Site Details

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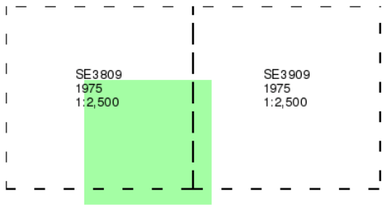
Supply of Unpublished Survey Information

Published 1975

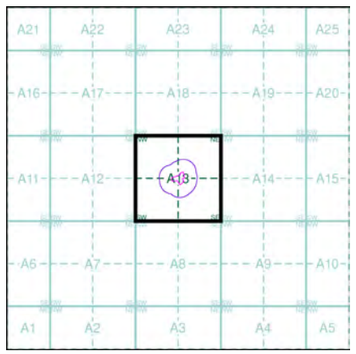
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



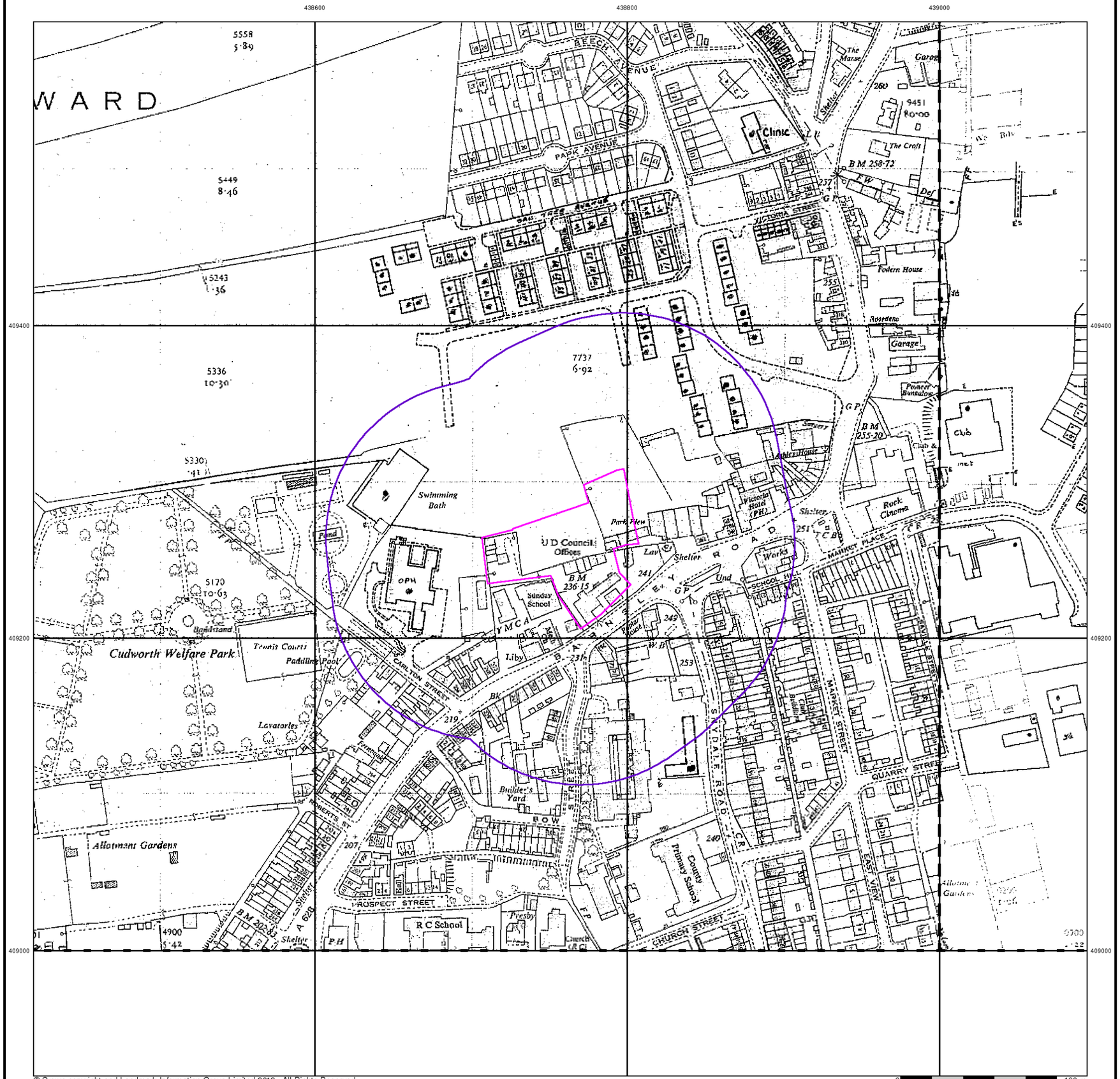
Order Details

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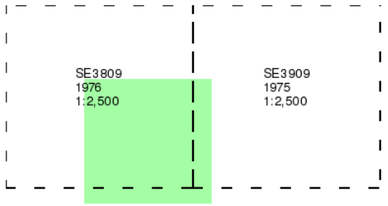
Supply of Unpublished Survey Information

Published 1975 - 1976

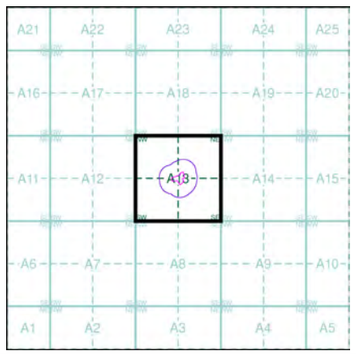
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



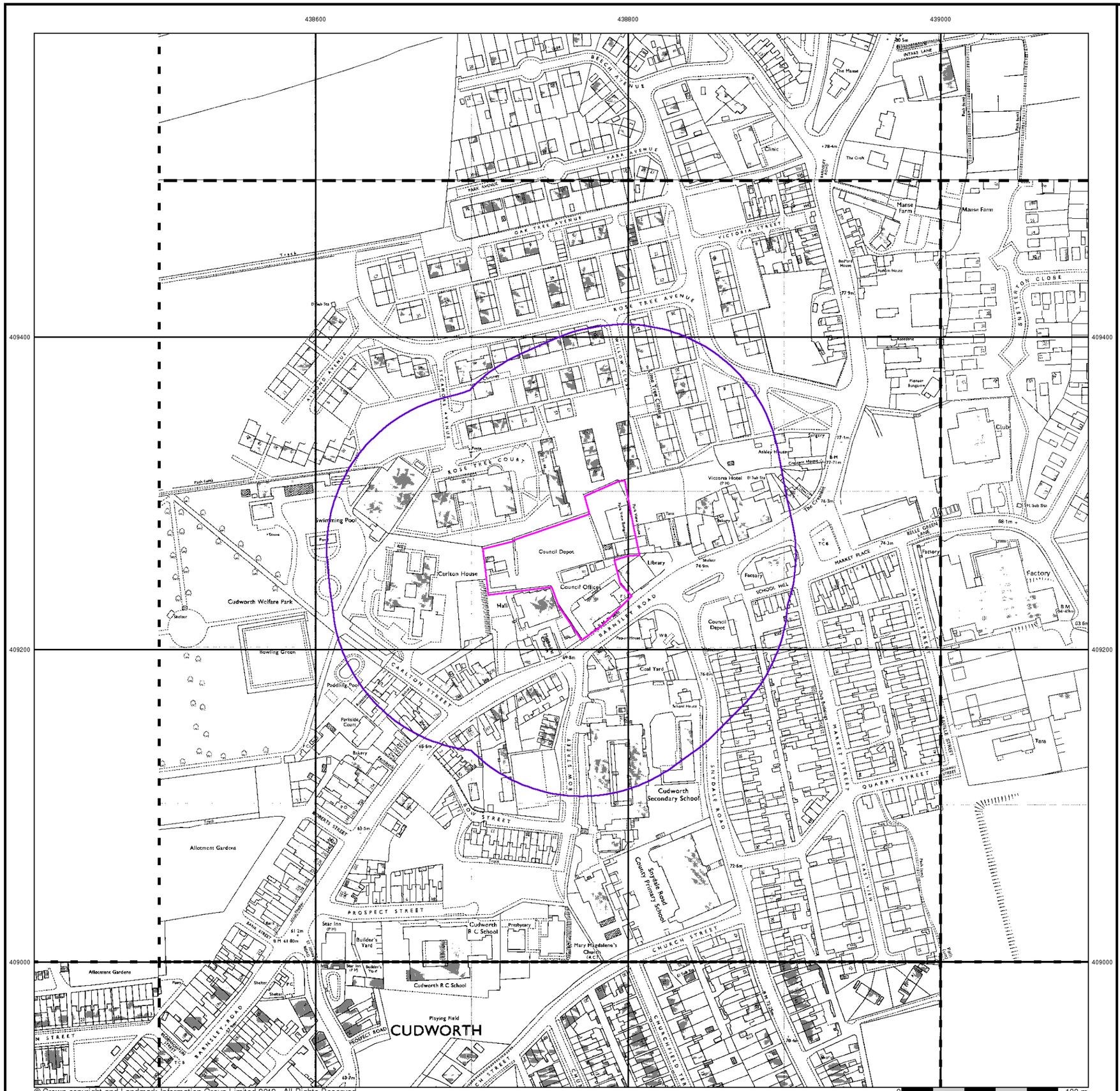
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Ordnance Survey Plan

Published 1977 - 1982

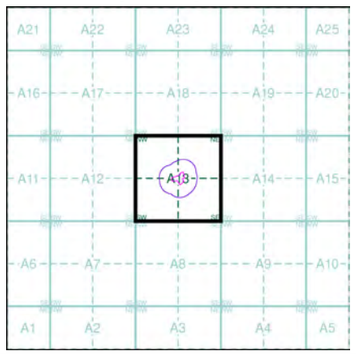
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



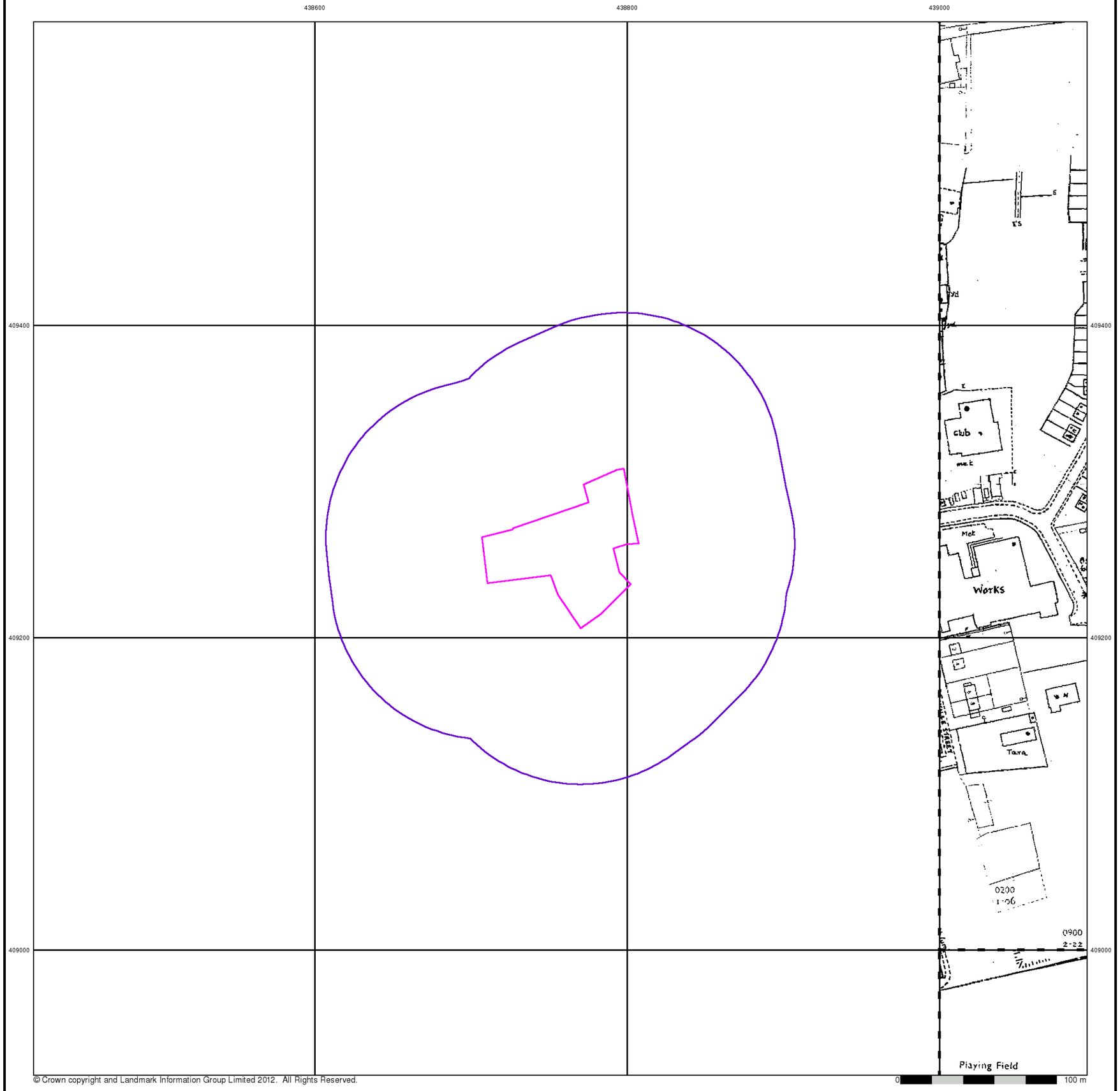
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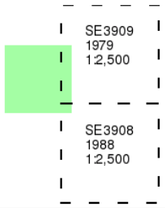
Additional SIMs

Published 1979 - 1988

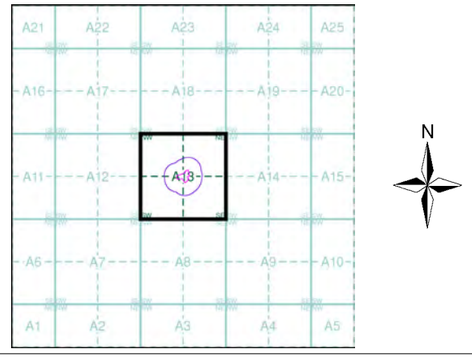
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

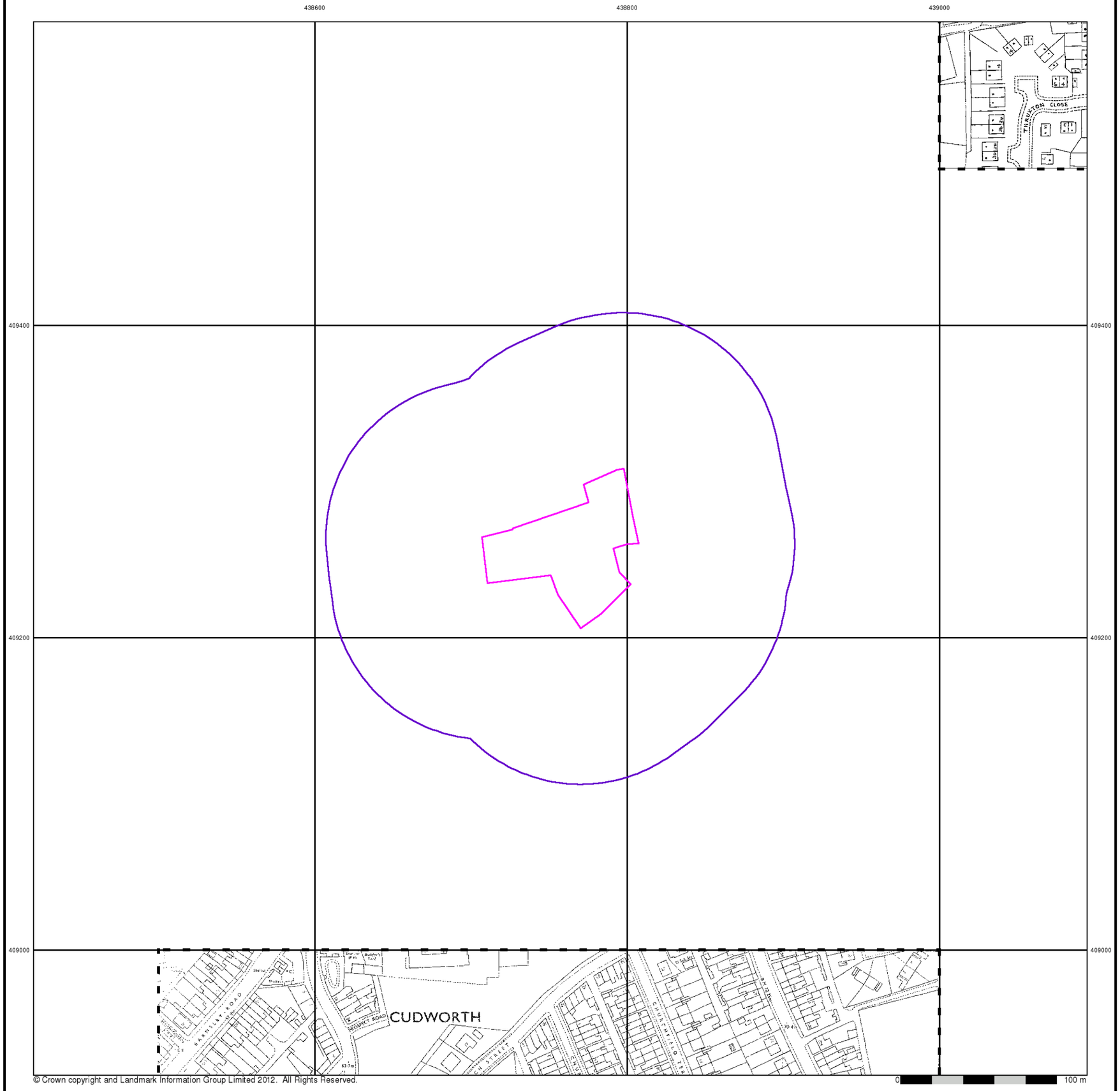
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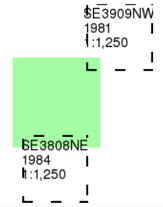
Additional SIMs

Published 1981 - 1984

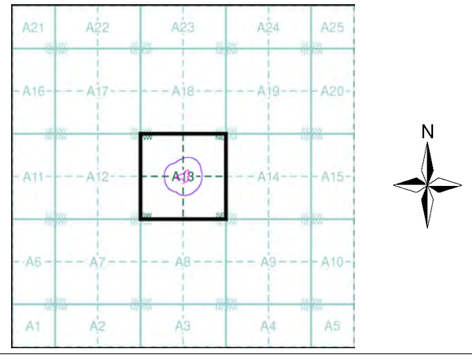
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

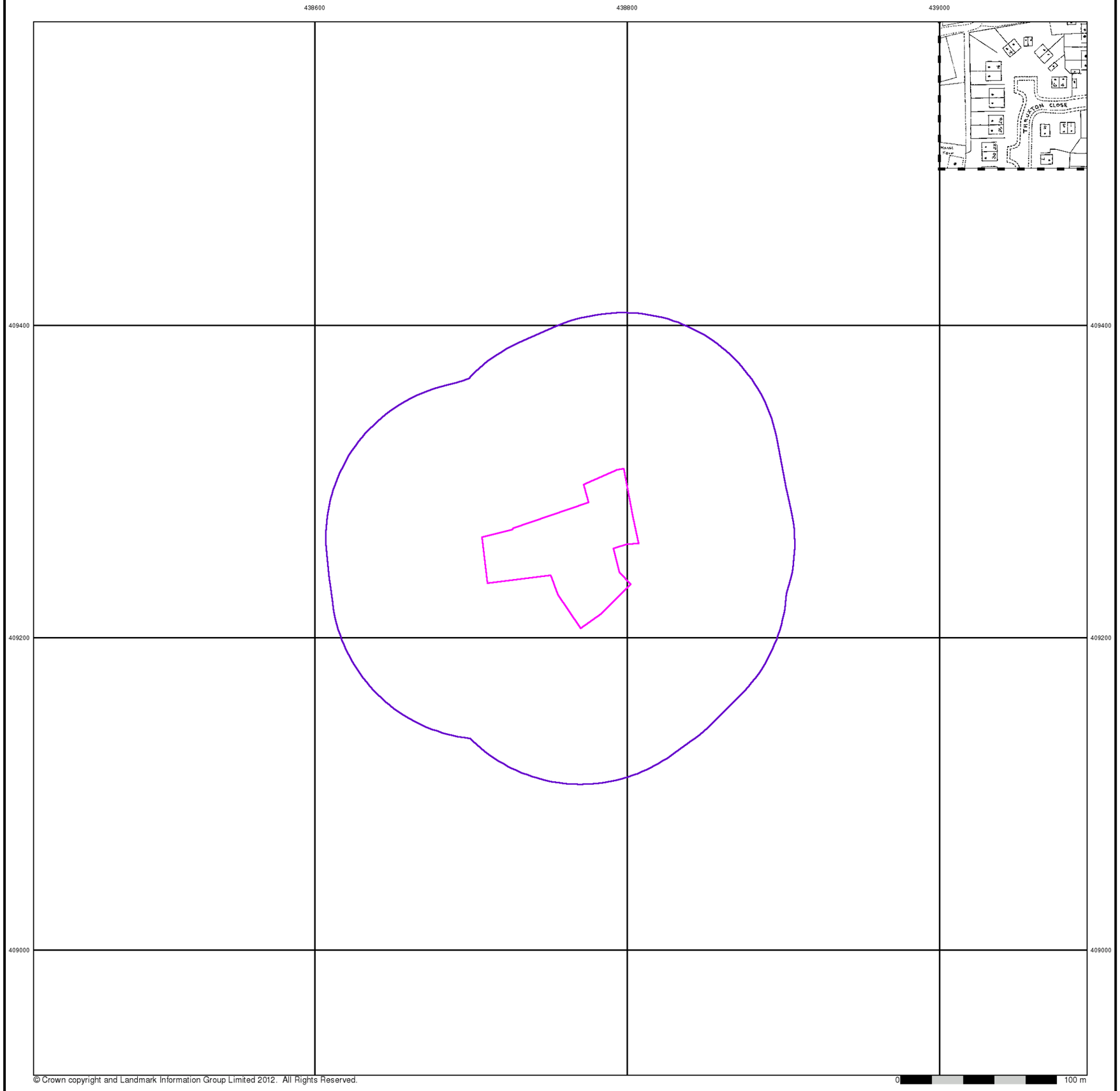
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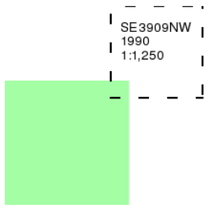
Additional SIMs

Published 1990

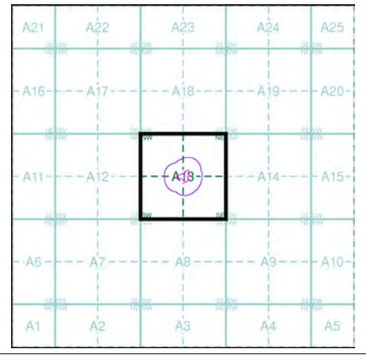
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

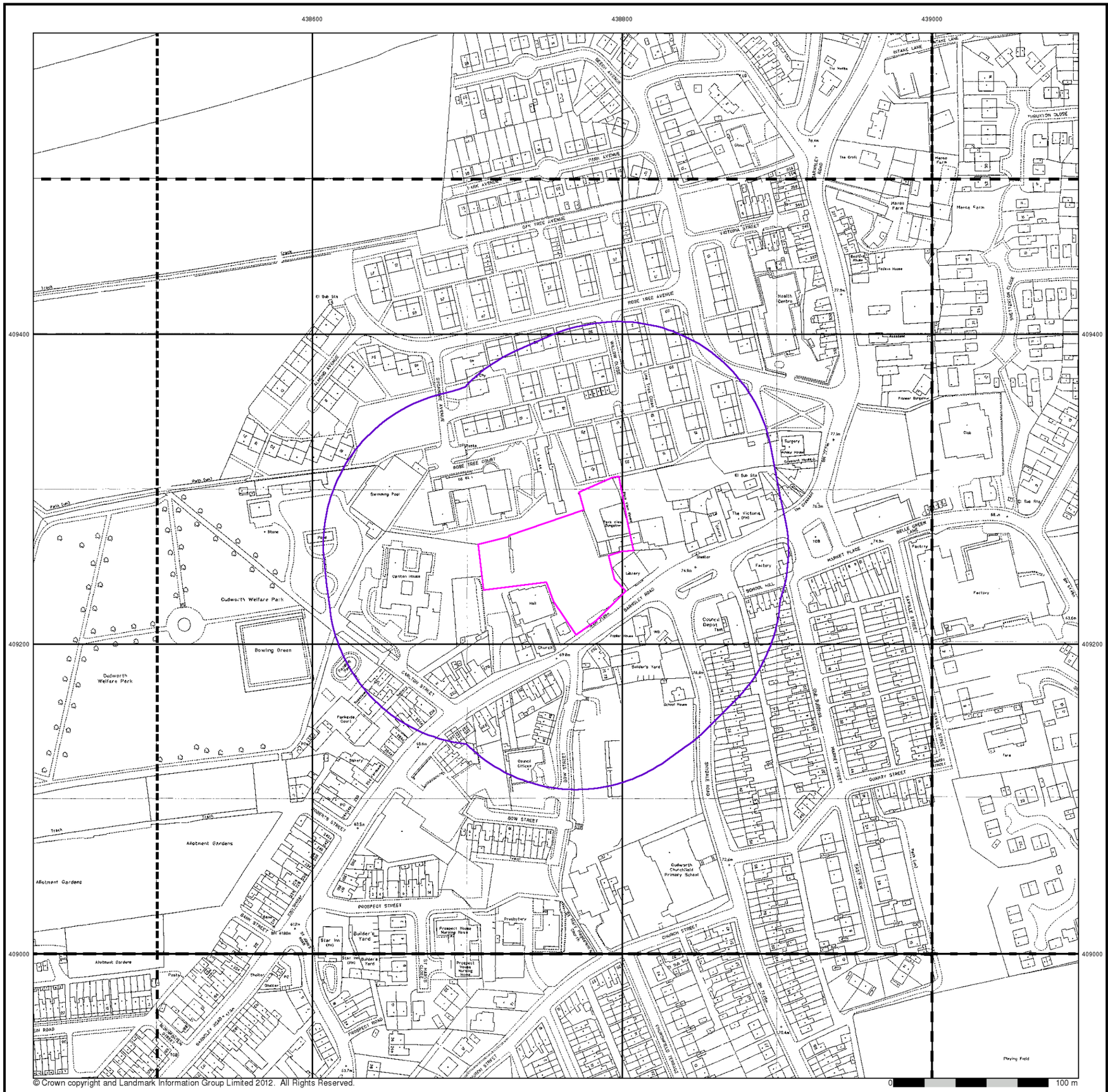
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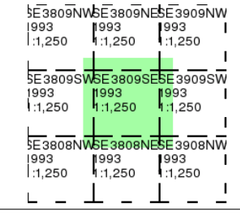
Large-Scale National Grid Data

Published 1993

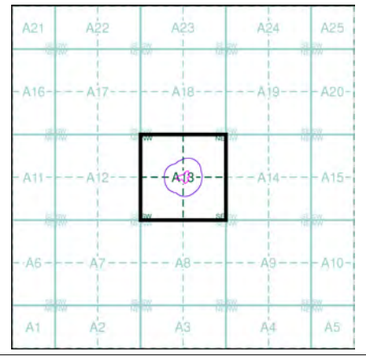
Source map scale - 1:1,250

'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



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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
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
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

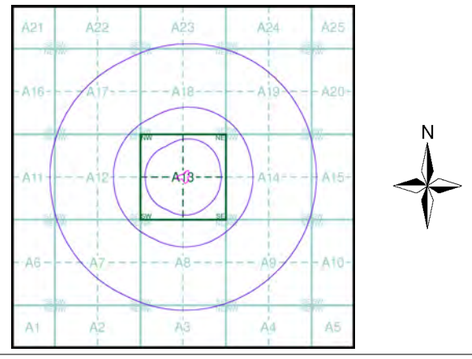
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or 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)
BM 123.45 m 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
Yorkshire	1:10,560	1854	2
Yorkshire	1:10,560	1894	3
Yorkshire	1:10,560	1906 - 1907	4
Yorkshire	1:10,560	1932 - 1933	5
Yorkshire	1:10,560	1938	6
Yorkshire	1:10,560	1938	7
Yorkshire	1:10,560	1948	8
Ordnance Survey Plan	1:10,000	1955 - 1956	9
Ordnance Survey Plan	1:10,000	1966 - 1967	10
Ordnance Survey Plan	1:10,000	1974	11
Ordnance Survey Plan	1:10,000	1981 - 1984	12
Ordnance Survey Plan	1:10,000	1989	13
Ordnance Survey Plan	1:10,000	1990 - 1993	14
10K Raster Mapping	1:10,000	2006	15
10K Raster Mapping	1:10,000	2012	16

Historical Map - Slice A



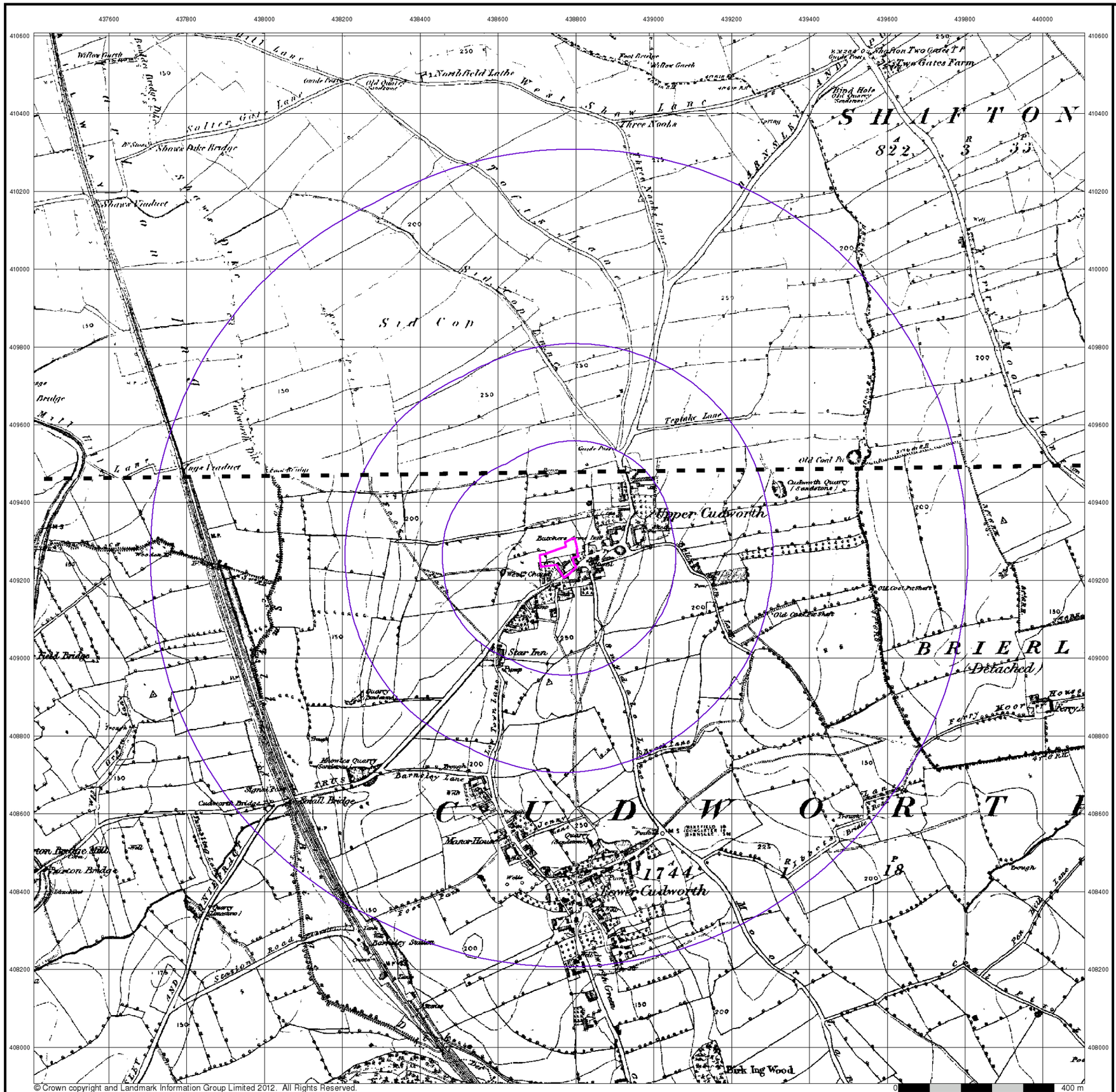
Order Details

Order Number: 41547908_1_1
Customer Ref: 12712
National Grid Reference: 438760, 409260
Slice: A
Site Area (Ha): 0.51
Search Buffer (m): 1000

Site Details

Proposed Aldi Store, Barnsley Road, Cudworth, Barnsley, South Yorkshire

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Yorkshire

Published 1854

Source map scale - 1:10,560

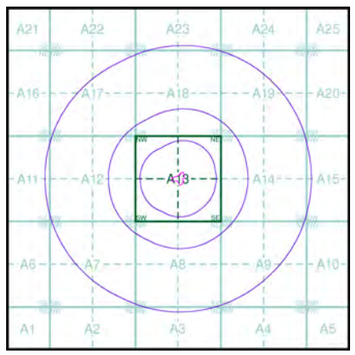
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

26300
1854
1:10,560

27500
1854
1:10,560

Historical Map - Slice A



Order Details

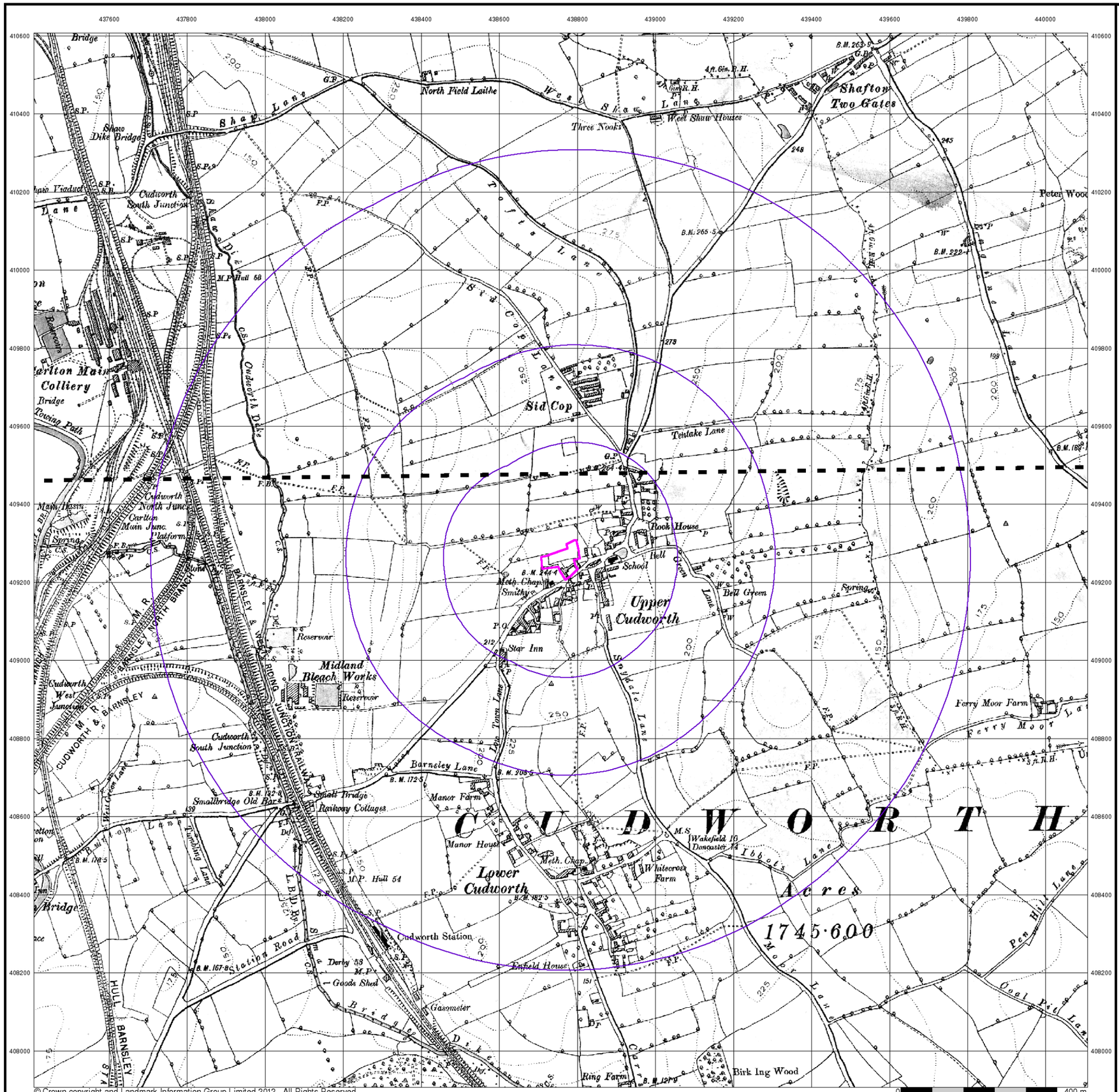
Order Number:	41547908_1_1
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Search Buffer (m):	1000

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Yorkshire

Published 1894

Source map scale - 1:10,560

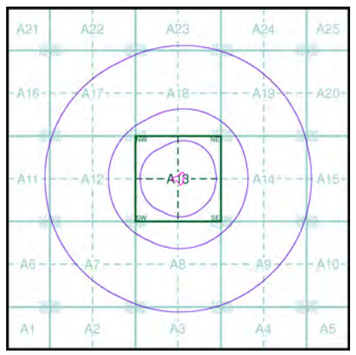
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Map Name(s) and Date(s)

263SW
1894
1:10,560

275NW
1894
1:10,560

Historical Map - Slice A



Order Details

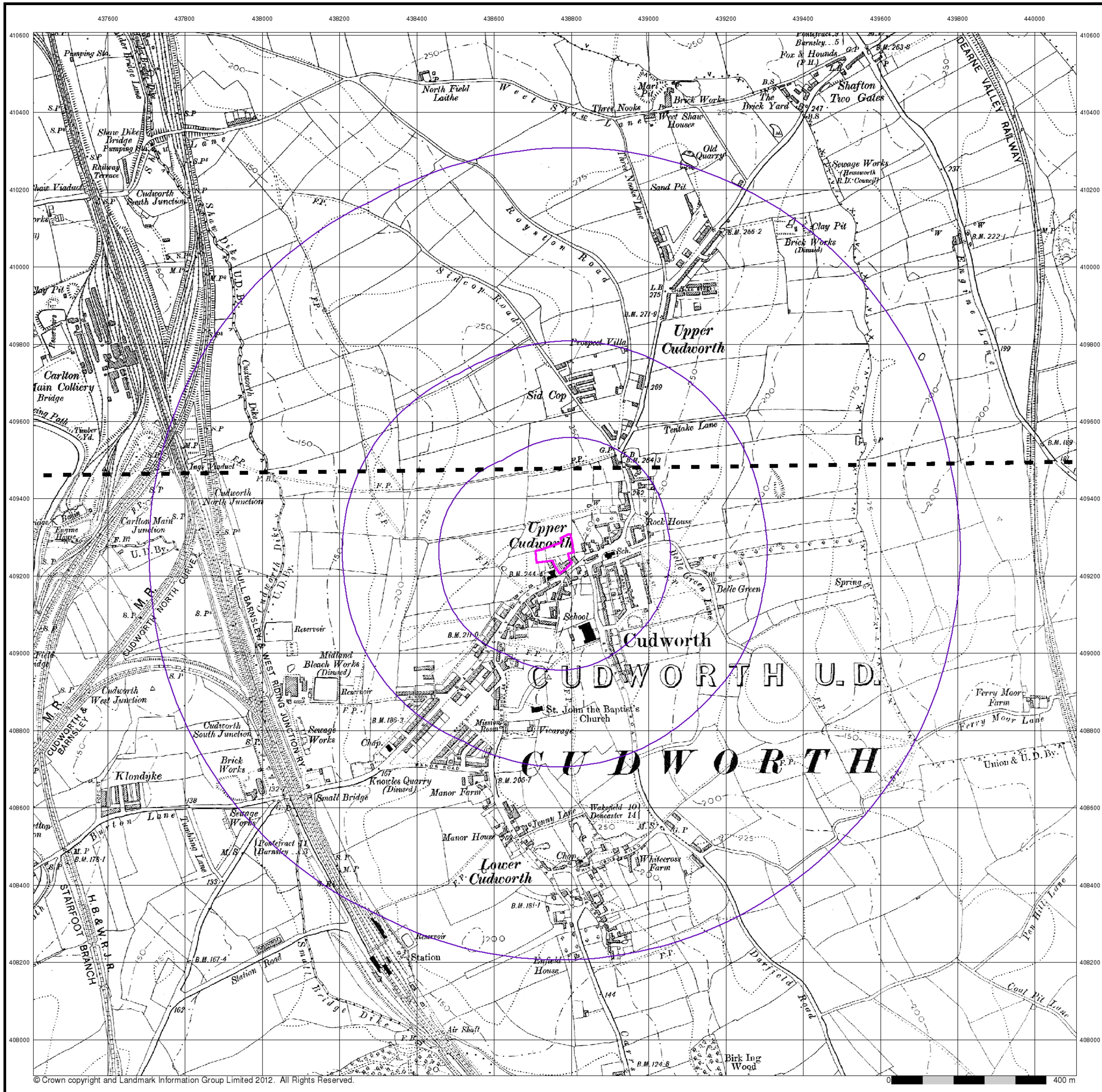
Order Number:	41547908_1_1
Customer Ref:	12712
National Grid Reference:	438760, 409260
Slice:	A
Site Area (Ha):	0.51
Search Buffer (m):	1000

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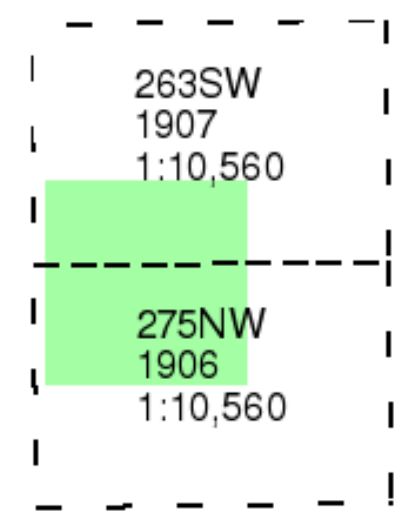
Yorkshire

Published 1906 - 1907

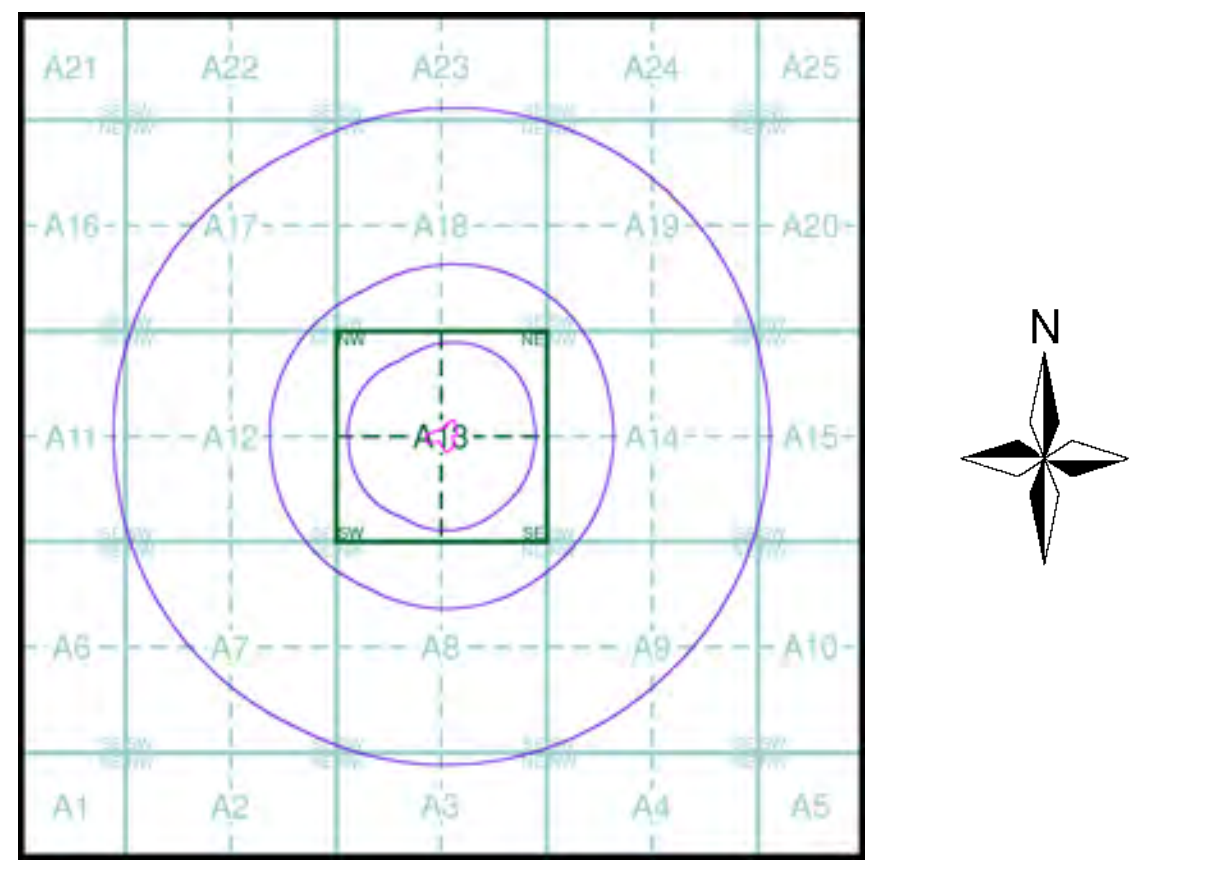
Source map scale - 1:10,560

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



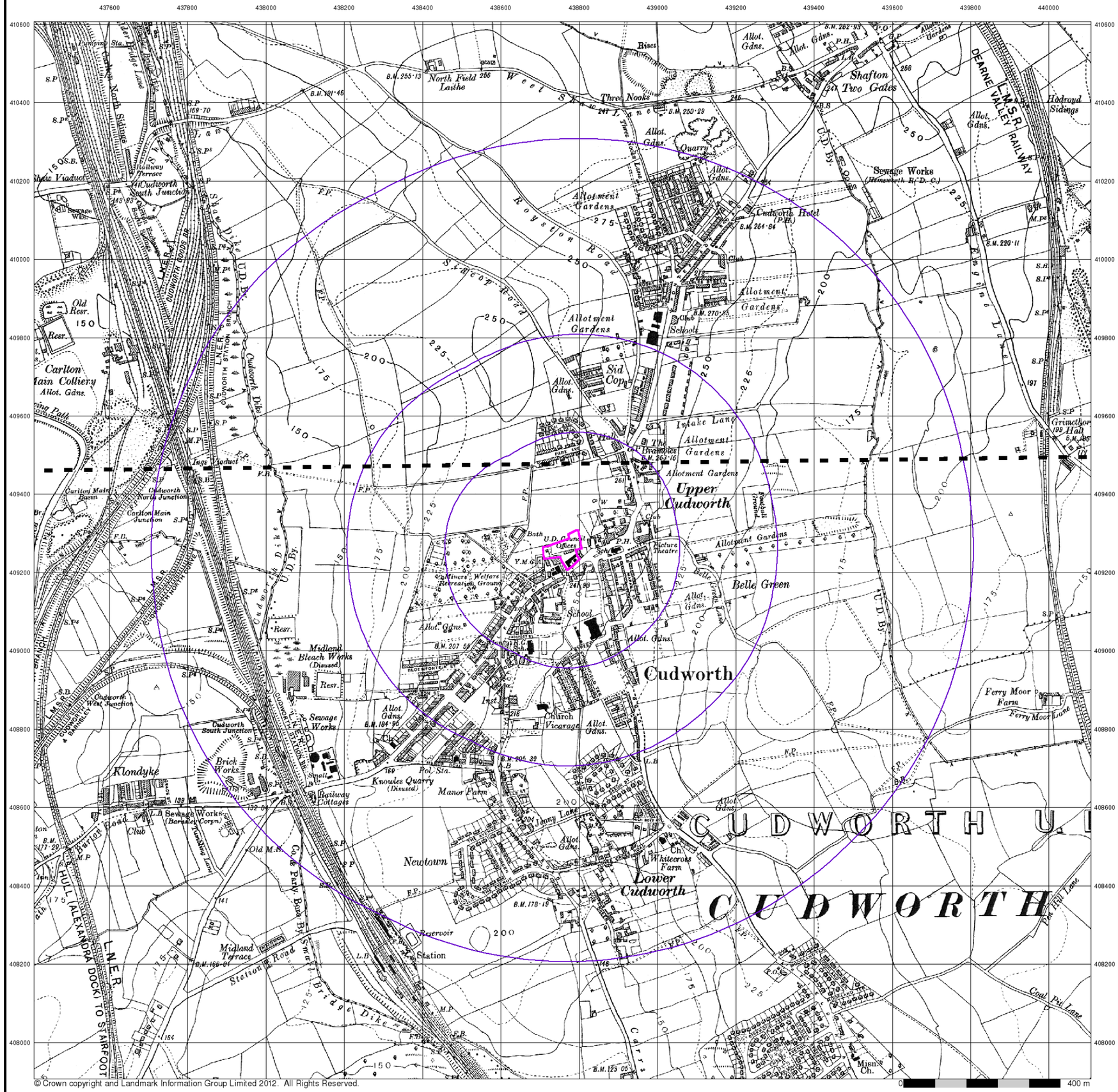
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Customer Ref:	12712
National Grid Reference:	438760, 409260
Slice:	A
Site Area (Ha):	0.51
Search Buffer (m):	1000

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Yorkshire

Published 1932 - 1933

Source map scale - 1:10,560

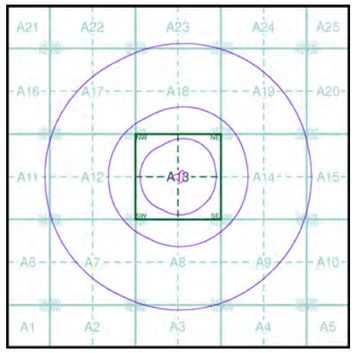
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Map Name(s) and Date(s)

263SW
1933
1:10,560

275NW
1932
1:10,560

Historical Map - Slice A



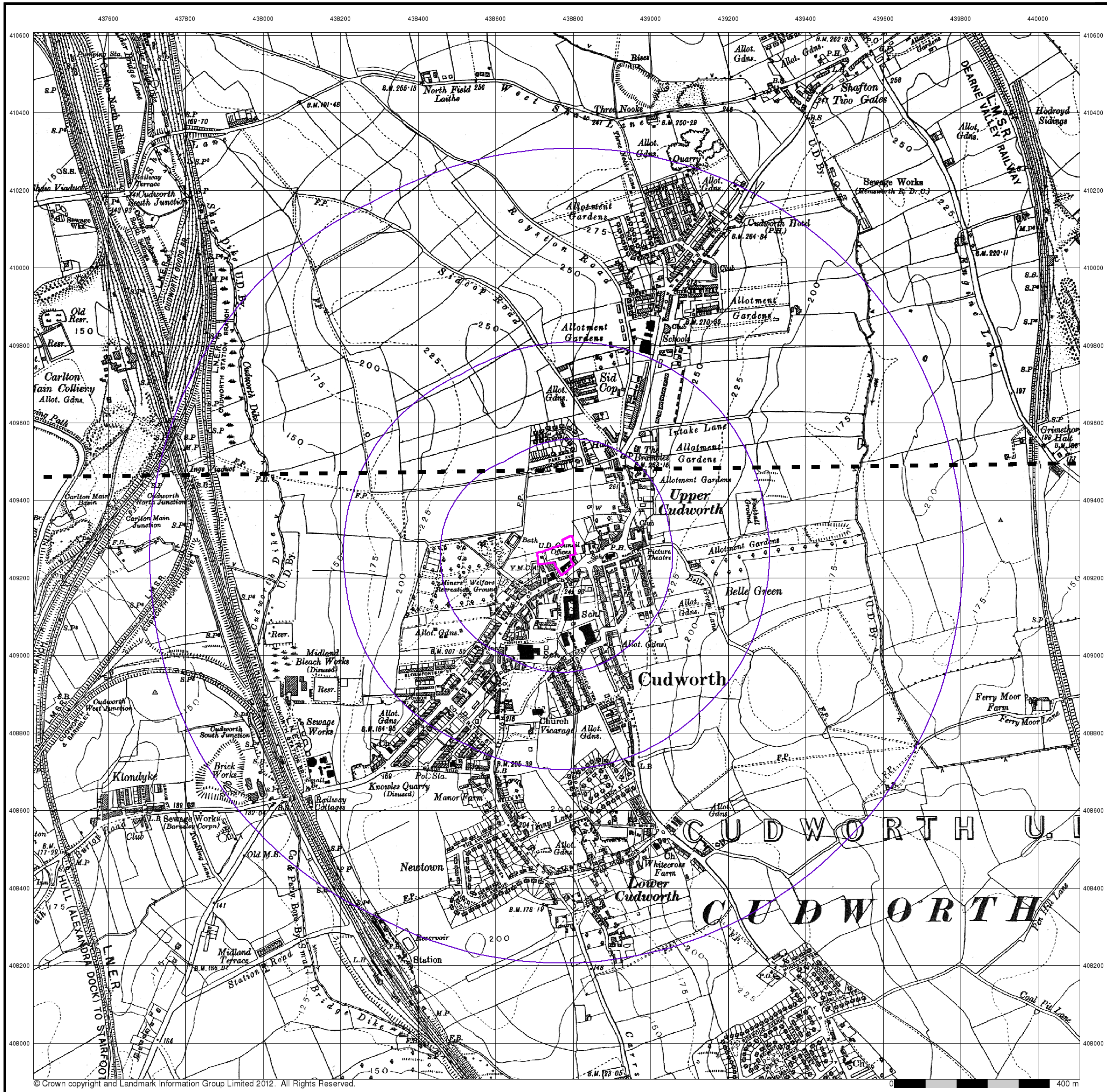
Order Details

Order Number:	41547908_1_1
Customer Ref:	12712
National Grid Reference:	438760, 409260
Slice:	A
Site Area (Ha):	0.51
Search Buffer (m):	1000

Site Details

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Yorkshire

Published 1938

Source map scale - 1:10,560

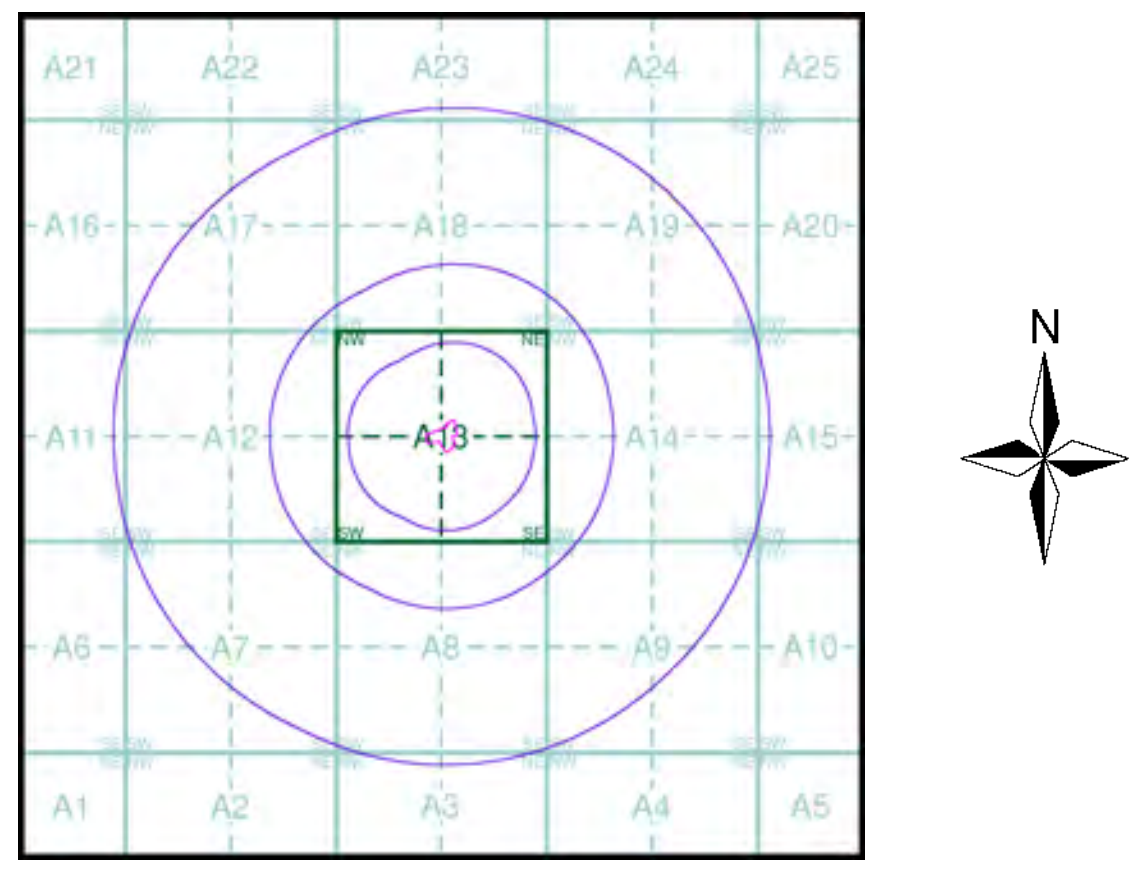
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Map Name(s) and Date(s)

263SW
1938
1:10,560

275NW
1938
1:10,560

Historical Map - Slice A



Order Details

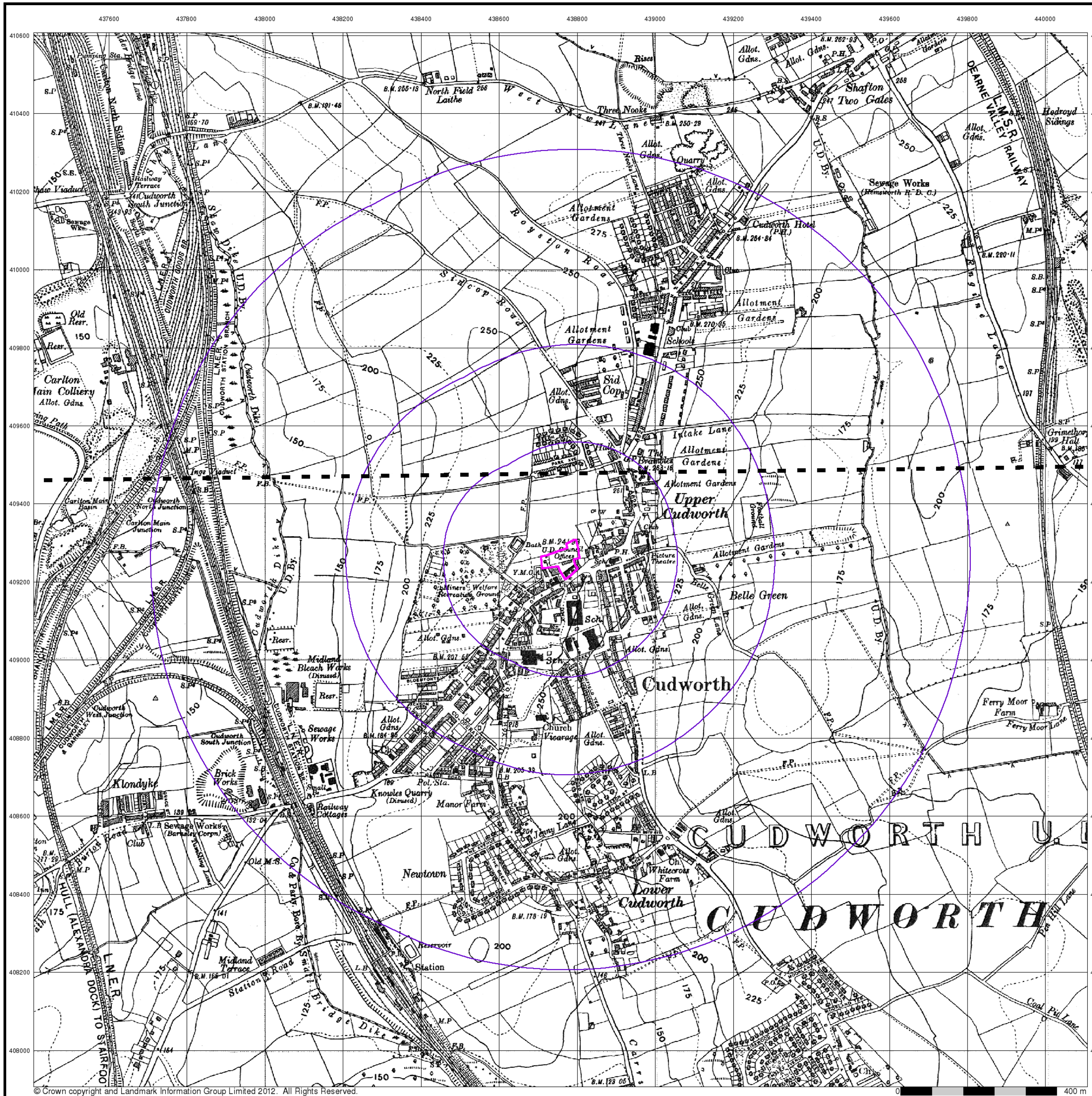
Order Number: 41547908_1_1
Customer Ref: 12712
National Grid Reference: 438760, 409260
Slice: A
Site Area (Ha): 0.51
Search Buffer (m): 1000

Site Details

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0 400 m

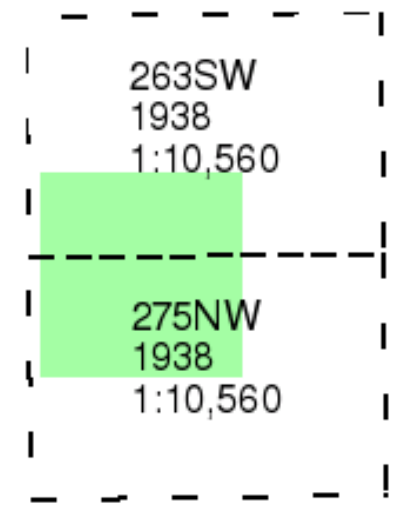
Yorkshire

Published 1938

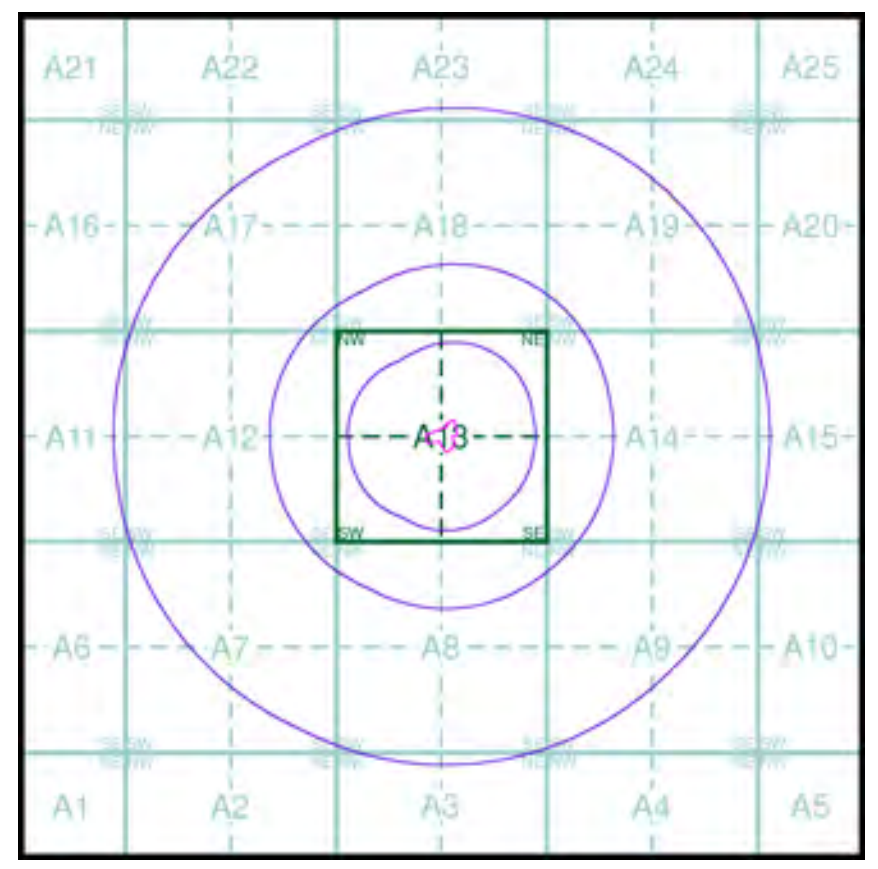
Source map scale - 1:10,560

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



N

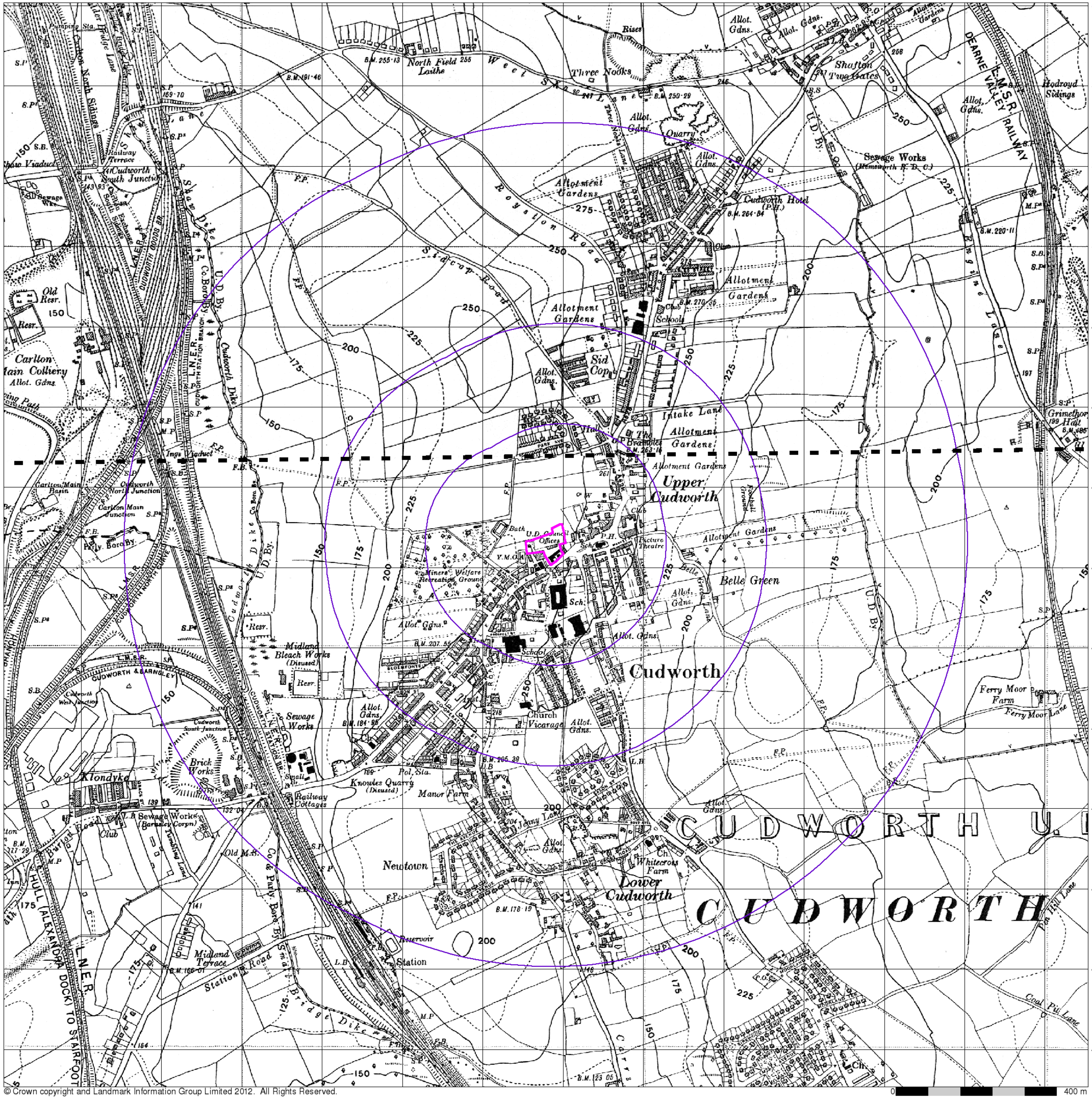
Order Details

Order Number: 41547908_1_1
Customer Ref: 12712
National Grid Reference: 438760, 409260
Slice: A
Site Area (Ha): 0.51
Search Buffer (m): 1000

Site Details

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Yorkshire

Published 1948

Source map scale - 1:10,560

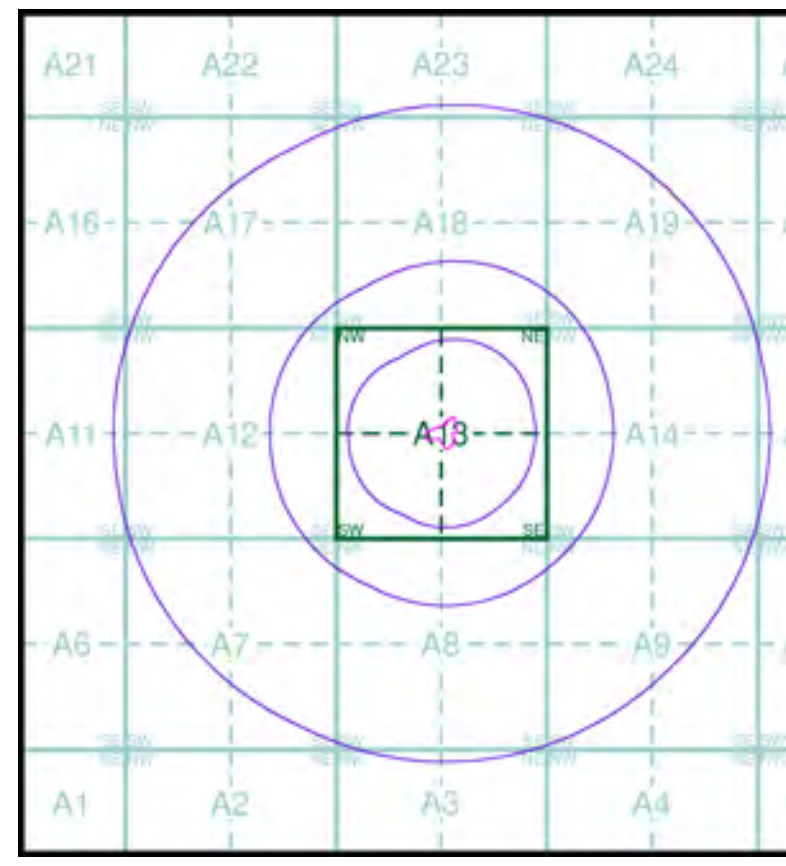
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Map Name(s) and Date(s)

263SW
1948
1:10,560

275NW
1948
1:10,560

Historical Map - Slice A



N

Order Details

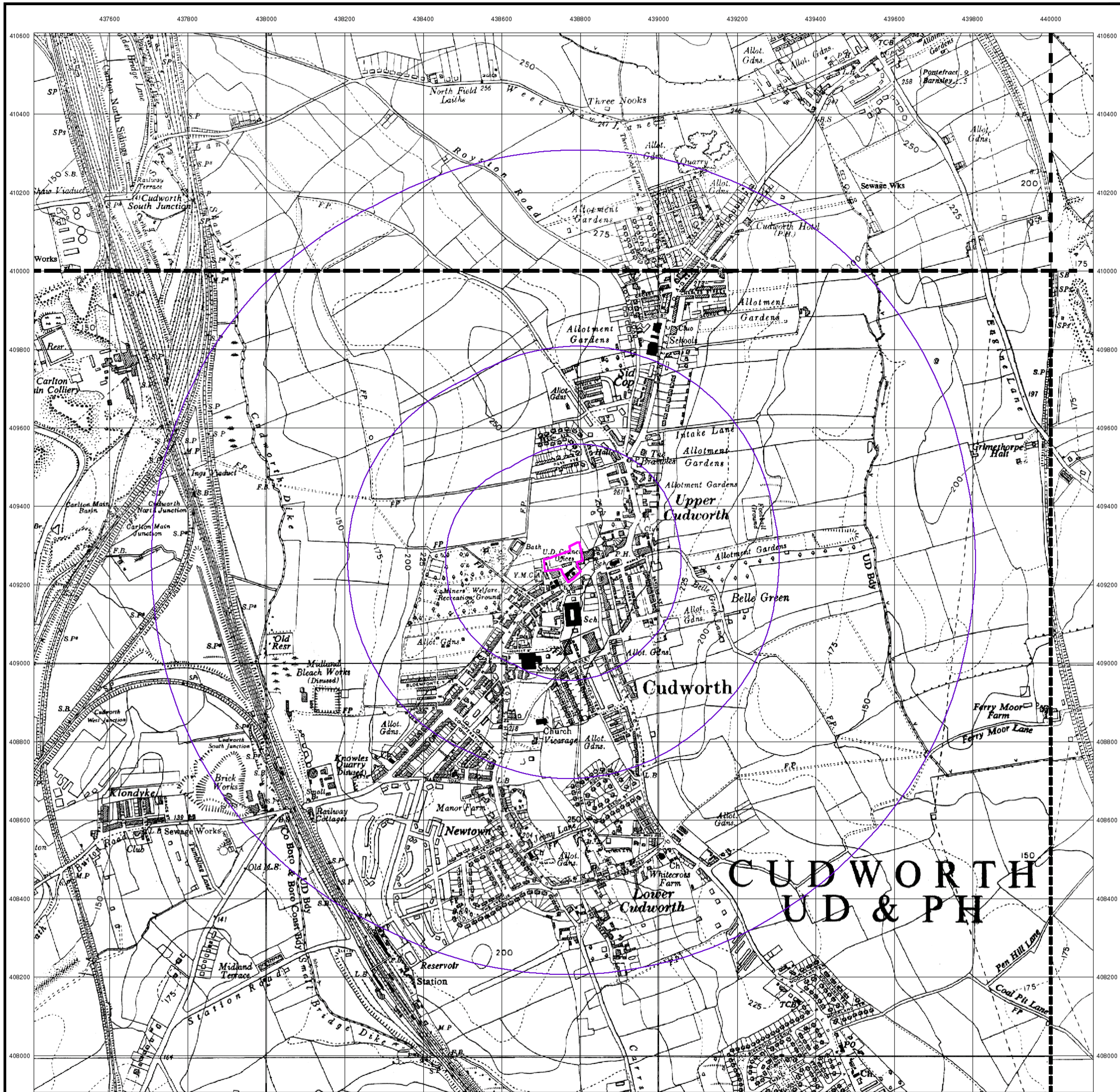
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Customer Ref: 12712
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Slice: A
Site Area (Ha): 0.51
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1955 - 1956

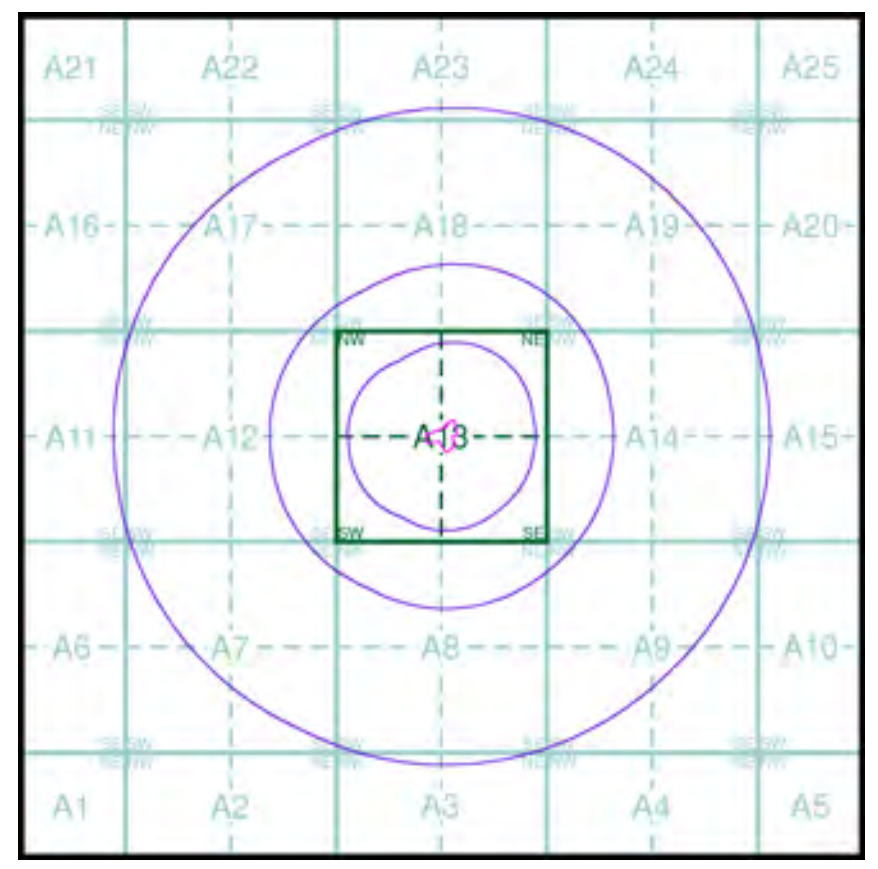
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Map Name(s) and Date(s)

SE31SE 1956 1:10,560	SE41SW 1956 1:10,560
SE30NE 1955 1:10,560	SE40NW 1955 1:10,560

Historical Map - Slice A



N

Order Details

Order Number: 41547908_1_1
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