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Phase 1

Environmental Assessment Report

14 Birch Crescent,

Longsight, Manchester,

M13 0NN

Date: 2nd February 2023

Version 1

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Document Verification

Site Address	14 Birch Crescent, Longsight, Manchester, M13 0NN		
Report Title	Phase 1 Environmental Site Assessment Report		
Job Number	ES02371	**Document Ref.**	ES02371
Date Issued	2nd February 2023	**Report Version**	1
Prepared by	Angel Arantegui	**Signature**	
Checked by	Tom Craig	**Signature**	

Executive Summary
The preliminary environmental site assessment indicates that the site can be classified as low risk in terms of contamination and the risks to the identified receptors (e.g., human health, controlled waters, buildings) following redevelopment is considered to be low. During site preparation works, if any unexpected visual or olfactory evidence of contamination is encountered, it is recommended that the material is removed and stockpiled on site and advise is sought from a suitably qualified person (Environmental Consultant) on how to deal with the material. Testing of the material will be necessary to identify whether it is suitable for re-use on site or if it will have to be taken off-site for disposal. In addition, to ensure that they do not come into contact with contaminated soils and groundwater, it is recommended that workers wear appropriate personal protective equipment (PPE) and that suitable Health and Safety procedures be adopted to ensure that ingestion of contaminated soils and groundwater is avoided (e.g., by washing hands prior to eating, drinking and smoking.

Disclaimer

This report has been prepared by EnviroSolution Ltd who has exercised such professional skill, care and diligence as may reasonably be expected of a properly qualified and competent consultant experienced in preparing reports of a similar scope.

However, to the extent that the report is based on or relies upon information contained in records, reports or other materials provided to EnviroSolution Ltd, which have not been independently produced or verified, EnviroSolution Ltd, gives no warranty, representation or assurance as to the accuracy or completeness of such information.

Table of Contents

1.1 Introduction 6
1.2 Background 6
1.3 Objectives 6
1.4 Scope of Work 6
1.5 Information Sources 7
2 The Site 8
2.1 Site Location 8
2.2 Site Description 8
2.3 Development Proposals 8
2.4 Site History 8
3 Environmental Setting 12
3.1 Geology 12
3.2 Radon 12
3.3 Coal Mining Activity 12
3.4 Hydrogeology 12
3.5 Hydrology 13
3.6 Flood Risk 13
3.7 Waste Management Facilities 13
3.8 Environmental Permits, Incidents and Registers 14
3.9 Designated Environmentally Sensitive Sites 14
4 Preliminary Conceptual Site Model 15
4.1 Introduction 15
4.2 Potential Contamination Sources 15
4.3 Receptors 16
4.4 Pathways 17
4.5 Potential Pollution Linkages 18
4.5.1 Human Health 18
4.5.2 Controlled Waters 18
4.5.3 Building/Construction Materials/Buried Services 18
4.6 Environmental Designations 19
4.7 Preliminary Hazard Assessment 19

5 Conclusions and Recommendations 22

Appendices

Appendix A – Site Plans

Appendix B – Site Photographs

Appendix C – Historical OS Maps

Appendix D – Geological Maps

Appendix E– BGS Borehole Logs

Appendix F – Coal Mining Summary Map

Appendix G – Hydrogeology Maps

Appendix H – Flood Risk Map

1.1 Introduction

1.2 Background

EnviroSolution Ltd was commissioned to undertake a Phase 1 Environmental Site Assessment at a site located at 14 Birch Crescent, Longsight, Manchester, M13 0NN. This report was commissioned to provide information on the potential contamination status of the site.

1.3 Objectives

The objective of the preliminary environmental site assessment was:

1. To provide a summary of the environmental setting and historical land use of the site and immediate surrounding area.
2. To obtain information on the ground conditions present beneath the site.
3. To develop a conceptual site model and complete a generic quantitative risk assessment to identify any environmental risks and liabilities associated with ground conditions at the site.

1.4 Scope of Work

To achieve the objectives, the following scope of work was completed:

1. A desk-based study of the site comprising a review of available environmental information for the site such as geological and hydrogeological data and historical land use information.
2. A site walkover.
3. Assessment of potential hazards and constraints during construction and longer term.

This work has been devised to generally comply with the relevant principles and requirements of the following legalisation and guidance:

- Part IIA of the Environmental Protection Act, 1990 and Section 57 of the Environmental Act 1995;
- Contaminated Land (England) (Amendment) Regulations 2012 and Contaminated Land Statutory Guidance (DEFRA, April 2012);
- National Planning Policy Framework (Ministry of Housing, Communities and Local Government, July 2021);
- BS10175: 2011 +A2:2017 “Investigation of Potentially Contaminated Sites- Code of Practice”; and
- Environment Agency (2020) Land Contamination Risk Management Report LCRM “How to assess and manage the risks from land contamination”.

1.5 Information Sources

Historical Ordnance Survey maps have been obtained from historical records, ranging from 1848 to 2023. These maps provide high quality information on historical site use.

The British Geological Survey Geoindex database has been used to provide information on geo-environmental aspects of the site and the immediate surrounding area such as geological, hydrogeological and hydrological data.

The Environment Agency website (www.gov.uk/government/organisations/environment-agency) and Magic website (www.magic.gov.uk) was also used to obtain environmental information.

Industry Profiles produced by the Department of the Environment were utilised to obtain information on processes, materials and wastes associated with potential contaminative land uses near the site.

Readily available information sources have been used to produce this desk-based study. Additional information may be requested by the Local Planning Authority (e.g., local authority environmental information request). As part of the Phase 1 assessment, an environmental search was undertaken by the Pollution Regulatory Team at The Royal Borough of Kensington and Chelsea. This search provides council held trade directory and storage tank records.

2 The Site

2.1 Site Location

The site is located at 14 Birch Crescent, Longsight, Manchester, M13 0NN. The British National Grid Reference for the approximate site centre is GR: 386423, 395805.

The site location is shown on **Figure 1** in **Appendix A**.

2.2 Site Description

The site description has been prepared following a walkover survey conducted by EnviroSolution Ltd on the 1st of February 2023. The site photographs are included in **Appendix B.**

The site is square in shape and covers an approximate area of 600 square metres. The site forms a service yard for the adjoining tofu food manufacturers. The site is completely covered in concrete hardstanding.

Several storage containers are present with several bins and areas of vehicles.

The site is accessed via a double gate along Clarence Road along the western boundary.

The topography of the site is flat and level with no significant change in elevation.

The site lies within a residential area. The site is bounded by residential properties on all sides. The site is flat with an approximate mean elevation of 52m aOD.

There is a single petrol filling stations have been identified within a 250m radius of the site.

The existing site plan is shown on **Figure 2** which is included in **Appendix A**.

2.3 Development Proposals

At this stage it is understood that future development plans seek approval for a proposed extension to the existing warehouse (Use Class E).

The proposed development plan is shown on **Figure 3** which is included in **Appendix A.**

2.4 Site History

The development site and surrounding area has been reviewed with reference to historical Ordnance Survey (OS) maps. The history of the site and immediate surrounding area is summarised in Table 1. Copies of the historical OS maps are included in **Appendix C**. A search buffer of 250m has been used.

Table 1 - Historic Mapping Review

Date	Scale	On Site	Off Site
1848	1:10,560	The site is unoccupied.	The surrounding area is residential developments and agricultural fields.
1891	1:500	No significant changes.	No significant changes.
1893	1:2,500	Site boundary is covered in non-coniferous trees.	Tramway 140m northeast. Church 95m northeast.
1894	1:10,560	No significant changes.	Further residential development.
1908	1:2,500	No significant changes.	Vernon Works 200m northeast. Tramway 95m north.
1908-09	1:10,560	No significant changes.	No significant changes.
1923	1:10,560	No significant changes.	No significant changes.
1933	1:2,500	No significant changes.	Vernon Works labelled as Engineering Works. Picture Theatre 250m southeast.
1933-34	1:10,560	No significant changes.	Further residential development. Playing field 200m southwest.
1938	1:10,560	No significant changes.	No significant changes.

Date	Scale	On Site	Off Site
1950-51	1:1250	No significant changes.	Corset Factory 160m north. Engineering works labelled as Fluvent Works (electrical engineering) Tanks 220m northeast. Electrical Sub-Station 210m northeast. Grave Yard 250m southeast. Allotments 210m Southwest. Red Rose Works (Ladies Overalls & Frocks) 190m northwest. Warehouse 180m northeast. Tramway appears to be removed.
1951-52	1:1,250	No significant changes.	Picture theatre labelled as Cinema.
1951-92	1:1,250	Site used as the adjoining service yard for a warehouse.	Warehouse adjacent to the east boundary of the site. Builder's Yard 60m northeast. Electric Sub-Station 250m north. Garage 150m south. Red Rose Works split into a Glass Warehouse, a Warehouse and Clothing Warehouse. Depot 90m northeast.
1955-56	1:10,000	No significant changes.	No significant changes.

Date	Scale	On Site	Off Site
1965-68	1:10,000	No significant changes.	Residential development adjacent to the east boundary of the site. Fluvent Works (electrical engineering) labelled as Works
1972-83	1:1,250	No significant changes.	Contractors Yard 40m northwest. Warehouse 150m north. Garage 170m northeast.
1979-91	1:1,250	No significant changes.	Further residential development. School built adjacent to the southern boundary.
1981-85	1:10,000	No significant changes.	Majority of residential developments 100m east appeared to be demolished.
1983-92	1:1,250	No significant changes.	Further residential developments.
1987	1:10,000	No significant changes.	Majority of residential developments 100m east appeared to have been rebuilt.
1990-93	1:10,000	No significant changes.	No significant changes.
1992	1:1,250	No significant changes.	No significant changes.
1993-95	1:1,250	No significant changes.	No significant changes.
1999	1:10,000	No significant changes.	No significant changes.
2023	1:10,000	No significant changes.	No significant changes.

3 Environmental Setting

3.1 Geology

Geological maps of the area indicate that the site is directly underlain by superficial deposits (Diamicton), deposited during the Pleistocene Epoch period. Diamicton generally comprises unsorted and unstratified drift, generally over-consolidated. It consists of a heterogenous mixture of clay, sand, gravel, and boulders varying widely in size and shape (diamicton).

The underlying bedrock is the Manchester Marls Formation, deposited during the Permian Period. The Manchester Marls Formation mainly comprises of red marl (calcareous mudstone and siltstone) with thin beds of fossiliferous marine limestone and dolomite; locally green; sandy in places especially in top part; local breccias and pebbly beds.

The nearest geological fault is located 120m northeast of the site.

A borehole (Ref: SJ89NE916) was obtained from BGS online records from 10m north of the site. The borehole penetrates 2.00m bgl and shows approximately 0.50m of Made Ground (brick rubble), overlying 0.60m of firm/stiff black clay with some ash and 0.90m of stiff brown, grey silty slightly sandy gravelly Clay (Boulder Clay).

A copy of the geological maps is included in **Appendix D.** A copy of the BGS borehole records is included in **Appendix E**.

3.2 Radon

The site lies within the lowest band of radon potential where it is estimated that less than 1% of the properties are above the action level (low probability). Radon protective measures are not deemed necessary for the development.

3.3 Coal Mining Activity

The site falls within a Coal Mining Reporting Area described as having minable coal deposits but does not lie within a 'Development High Risk Area' for coal mining, as defined by the Coal Authority. As such, it is considered that there are no coal mining related hazards which could affect the site.

A copy of the coal mining summary map is included in **Appendix F**.

3.4 Hydrogeology

The superficial deposits are designated as a Secondary (undifferentiated) Aquifer, defined as; has been assigned in cases where it has not been possible to attribute either category A or B to a rock type due to the variable characteristics of the rock type.

The underlying bedrock deposits are designated as an Secondary B Aquifers defined as; predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

There are no records of a groundwater abstraction licences located within a 1km radius of the site.

A Zone III Total Catchment Source Protection Zone is located 1km southwest of the site boundary.

A copy of the hydrogeological maps is included in **Appendix G**.

3.5 Hydrology

There are no significant surface water features (rivers, lakes and reservoirs) located within a 1km radius of the site.

There are no minor surface water features located within a 250m radius of the site.

3.6 Flood Risk

The site lies within a Flood Zone 1 (low probability), land assessed as having less than a 1 in 1,000 annual probability of river flooding (0.01%) in any year (low risk). The completion of a detailed Flood Risk Assessment is not deemed necessary for this site.

A copy of the flood risk map is included in **Appendix H**.

3.7 Waste Management Facilities

There are no records of historic or currently authorised landfill sites located within a 1km radius of the site.

There is a single record of sites operating under an environmental permit for waste operations within a 1km radius of the site recorded by the Environment Agency.

Table 2 - Environmental permit for Waste Operations.

Licence Holder Name	Site Name	Site Type	Date Effective	Distance
REDGATE HOLDINGS LIMITED	Redgate Holdings Limited	A11: Household, Commercial & Industrial Waste T Stn	2003	800m NE

3.8 Environmental Permits, Incidents and Registers

There are 5 no. records of sites located within a 1km radius of the development site operating under an environmental permit for discharges to water and groundwater.

Table 3 - Environmental permit for Discharges to Water and Groundwater.

Permit Holder Name	Site Name	Start Date	Site Type	Distance
UNITED UTILITIES WATER LIMITED	BERESFORD ROAD CSO	2019	Storm Tank/CSO on Sewerage Network (water company)	600m S
UNITED UTILITIES WATER LIMITED	BIRCH HALL LN THORESWAY RD CSO	2019	Storm Tank/CSO on Sewerage Network (water company)	600m S
UNITED UTILITIES WATER LIMITED	161 A DICKENSON ROAD CSO	2019	Storm Tank/CSO on Sewerage Network (water company)	700m SW
UNITED UTILITIES WATER LIMITED	MAD HATTER PUB	1994	Storm Tank/CSO on Sewerage Network (water company)	900m N
UNITED UTILITIES WATER LIMITED	BUTLER STREET/WOODWARD STREET CSO	2018	Storm Tank/CSO on Sewerage Network (water company)	900m NW

There are no records of pollution incidents recorded by the Environment Agency having occurred within a 1km radius of the site.

There are no records of a site located within a 1km radius of the development site operating under an environmental installation permit recorded by the Environment Agency.

3.9 Designated Environmentally Sensitive Sites

There are no records of designated environmentally sensitive sites located within a 1km radius of the site.

4 Preliminary Conceptual Site Model

4.1 Introduction

In order to assess the environmental risks present, a preliminary conceptual model has been developed for the site. This model has been developed using best practice guidelines in conjunction with the current assessment framework taking into account the development proposals. This preliminary conceptual model is based on the gathered desk-based information (e.g. historical OS data and data sourced from the EA, Geoindex and Magic databases).

The conceptual site model is a representation of the hypothesised relationships between sources, pathways and receptors which allows the identification of potential pollutant linkages and whether these linkages have the potential to comprise significant harm and/or pollution of controlled waters in relation to the site. This model comprises three elements:

Source – the key pollutant hazards associated with the site

Receptor – the key targets at risk from the sources

Pathway – the means by which the contaminant can cause harm to the receptor

If all three elements are present, then a potential pollutant linkage exists, and this may require further assessment.

4.2 Potential Contamination Sources

The site has remained and undeveloped green space until the 1950s when the site was developed as a service yard which adjoins to a warehouse along the eastern boundary. A solid concrete slab was placed at this time and no further development has taken pace in this area. The concrete slab is in good condition with no evidence of staining or cracking. This will have acted to prevent the loss of any contaminants from the service yard to the soils below.

Several off-site land uses have been identified in the surrounding area that have the potential to contaminate the shallow soils at the site. The land uses and their associated contaminants are summarised in Table 4 below:

Table 4 – Off-Site Land Use Summary

Land Use	**Potential Contaminants**
Works (engineering)	Heavy metals, inorganic compounds, acids/alkalis, asbestos, polychlorinated biphenyls (PCBs), organic solvents, halogenated compounds, mineral oils.

Land Use	Potential Contaminants
Garages (Auto-specialist)	Heavy metals, hydrocarbons, polyaromatic hydrocarbons (PAHs), solvents.
Builders / Contractors Yard	Heavy metals, polyaromatic hydrocarbons (PAHs), solvents.
Warehouse (Clothing / Glass)	Heavy metals, hydrocarbons, polyaromatic hydrocarbons (PAHs), solvents.
Electric Sub-Station	Polychlorinated biphenyls (PCBs).
Allotment gardens	Heavy metals, polyaromatic hydrocarbons (PAHs), nitrates.
Factory (Clothing)	Heavy metals, inorganic compounds, sizing agents, organic compounds, dyes, pesticides, anthrax spores.
Tanks	Hydrocarbons.
Tramways	Hydrocarbons, polychlorinated biphenyls (PCBs), polyaromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), herbicides, heavy metals, ash, sulphates.

It is considered that these land uses can be discounted as potential sources of contamination due to the presence of impermeable clay soils. This is evidenced by local borehole records which show that the diamicton superficial deposits are formed of stiff clays. The clay will act as an impermeable barrier, preventing the migration of any potential contaminants from these sources towards the site.

4.3 Receptors

The potential receptors considered to be at risk from soil and groundwater contamination associated with the site are summarised in Table 5 below:

Table 5 - Receptor Description

Receptor	Details
Human (On Site)	- Construction workers - Future site users - Site visitors
Human (Off Site)	- Adjacent site users

Receptor	Details
Controlled Waters	- Secondary (undifferentiated) Aquifer - Secondary B Aquifer
Building/ construction materials	- Foundations - Buried services
Environmental Receptors	- None identified

4.4 Pathways

The potential exposure pathways linking contamination with the receptors identified above are summarised in Table 6 below:

Table 6 - Exposure Pathways Summary

Receptor	Details of Exposure Pathway
Human (on-site)	- Direct ingestion of contaminated soil/groundwater - Dermal contact with soil/groundwater - Inhalation of gases and vapours
Human (off-site)	- Inhalation of fibres and particulates - Inhalation of migrating gases and vapours
Controlled waters	- Vertical and lateral migration of dissolved phase contaminants via preferential pathways to groundwater aquifers - Direct surface water run-off to surface water features
Building/construction	- Buried materials/services - Contact with contaminated soil and/or groundwater

4.5 Potential Pollution Linkages

4.5.1 Human Health

The future development plans seek approval for a proposed extension to the existing warehouse (Use Class E). This is considered to be a non-sensitive end use.

The presence of buildings and hardstanding would eliminate the risk of exposure, via the dermal contact and ingestion pathways to future site users to any ground contamination that may remain following development.

Any ground gases (i.e. methane and carbon dioxide) and vapours that are present within the soils beneath the site could potentially ingress into future buildings through preferential pathways (e.g. service entry points). Therefore, there would be a risk of exposure via inhalation to future site users.

There is the potential for construction workers and adjacent land users to be exposed to soil and groundwater contamination during site redevelopment. However, the use of appropriate PPE and the adoption of suitable Health and Safety methods will help to reduce the risks posed to human health during this work.

4.5.2 Controlled Waters

The site is directly underlain by diamicton deposits (Till) which are designated as Secondary (undifferentiated) Aquifer. The diamicton is generally of low permeability and will act as an impermeable barrier, preventing any migration of potential contaminants.

There are no groundwater abstraction licences held within 1km of the site and a Source Protection Zone 1000m southwest of the site, which is considered to be at a sufficient distance from the site to be affected by potential contamination.

There are no significant surface water features within a 1km radius. There are no minor surface water features located within a 250m radius of the site.

Overall, the risk to controlled waters is deemed to be low.

4.5.3 Building/Construction Materials/Buried Services

The presence of any soil and groundwater contaminants beneath the site could potentially impact on construction materials for future new developments, such as below ground structures and services. Concrete foundations are particularly sensitive to aggressive ground conditions, i.e., sulphate attack.

If ground gases and vapour are present in the soil beneath the site, then there would be the potential risk of ingress into new properties which could present a risk of explosion.

4.6 Environmental Designations

The proposed development is not considered to pose a risk to the identified environmental receptors.

4.7 Preliminary Hazard Assessment

A preliminary hazard assessment is presented in Table 7. The preliminary hazard assessment is a qualitative assessment of the risks posed by each potential pollutant linkage described above and is used to identify the requirement for additional work (e.g., intrusive ground investigation).

Table 8 – Preliminary Hazard Assessment

Source 1	Pathway	Receptor	Likelihood	Effect	Risk	Assessment
Contaminated soil	Ingestion (via soil dust), inhalation (via soil dust and vapours), ingestion through dirty hands, dermal contact with soil/water.	Future site users Adjacent site users Construction workers	1	3	Low	No on-site contamination source potential identified. Impermeable hardstanding at the site will sever any exposure pathways. Impermeable superficial deposits will limit the migration of off-site contaminants to the site.
Contaminated soil groundwater	Direct contact	Buildings/ services	1	3	Low	No on-site contamination source identified. No new services proposed.
Contaminated groundwater	Downward or lateral migration Surface water run-off	Secondary (undifferentiated) Aquifer Secondary B Aquifer	1	3	Low	Impermeable superficial deposits will act as an impermeable barrier, preventing migration of any potential contaminants to the receptors. There are no sensitive groundwater abstractions located nearby.
Ground gas / vapours Radon	Inhalation, ingress into buildings	Buildings / services Future site users Adjacent site users Construction workers	1	3	Low	No significant on-site ground gas potential identified. Site is located within a low probability area for radon.

Using Risk Matrix (Table 8) Degree of Risk (R) = Likelihood (L) x Effect (E)

Table 8 - Risk Matrix, Degree of Risk (R) = Likelihood (L) x Effect (E)

Likelihood	Description	Probability	Effect (E)	Description
5	Almost certain	>70%		
4	Probable	50-70%	4	Severe
3	Likely	30-50%	3	Medium
2	Unlikely	10-30%	2	Mild
1	Negligible	<10%	1	Minor
Risk (R)	**Risk Level**	**Action**		
1-5	Low	None required		
6-10	Moderate	Further assessment via Phase 2 intrusive ground investigation.		
>10	High	Further assessment via Phase 2 intrusive ground investigation.		

5 Conclusions and Recommendations

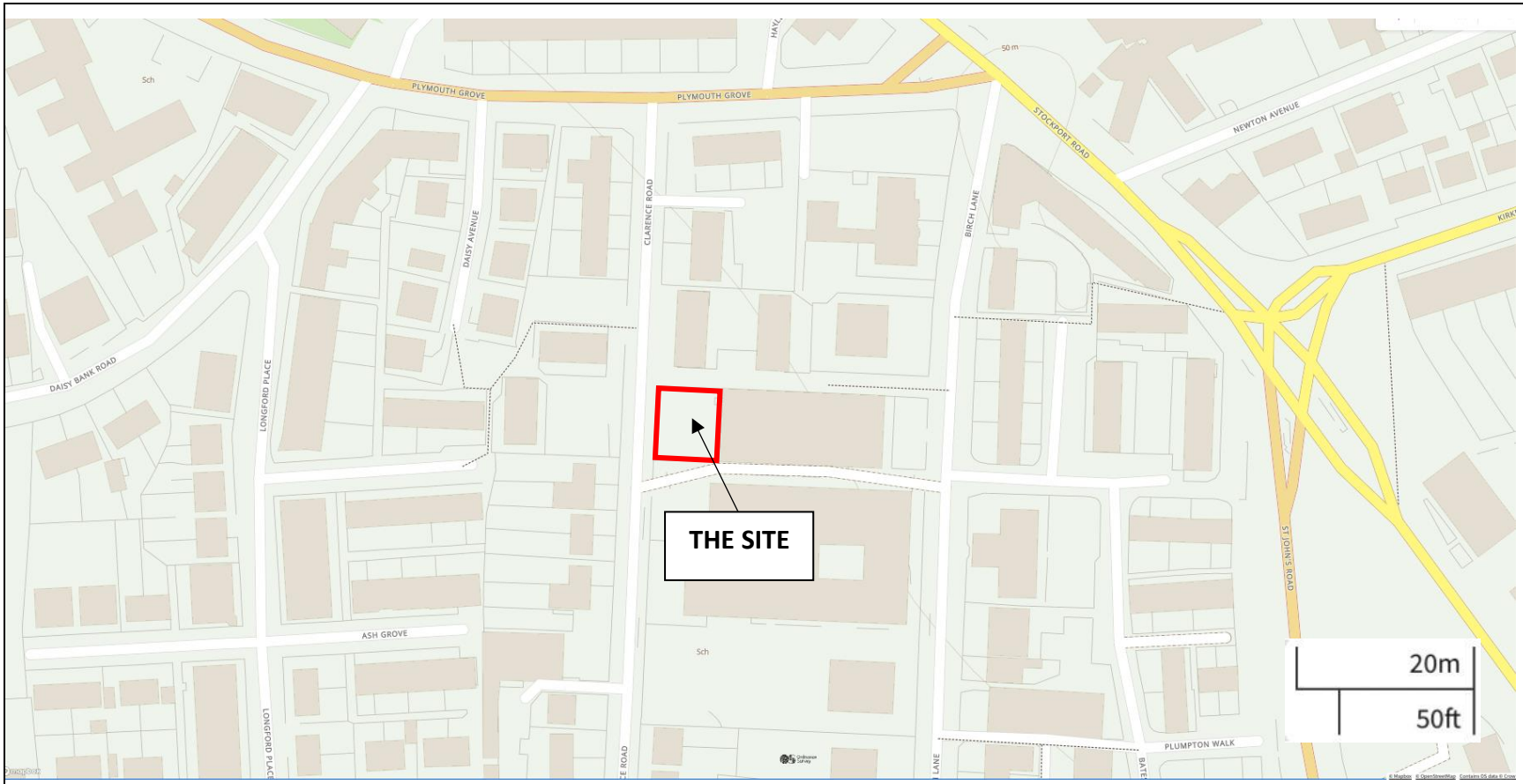
The preliminary environmental site assessment indicates that the site can be classified as low risk in terms of contamination and the risks to the identified receptors (e.g., human health, controlled waters, buildings) following redevelopment is considered to be low.

During site preparation works, if any unexpected visual or olfactory evidence of contamination is encountered, it is recommended that the material is removed and stockpiled on site and advise is sought from a suitably qualified person (Environmental Consultant) on how to deal with the material. Testing of the material will be necessary to identify whether it is suitable for re-use on site or if it will have to be taken off-site for disposal.

In addition, to ensure that they do not come into contact with contaminated soils and groundwater, it is recommended that workers wear appropriate personal protective equipment (PPE) and that suitable Health and Safety procedures be adopted to ensure that ingestion of contaminated soils and groundwater is avoided (e.g., by washing hands prior to eating, drinking and smoking.

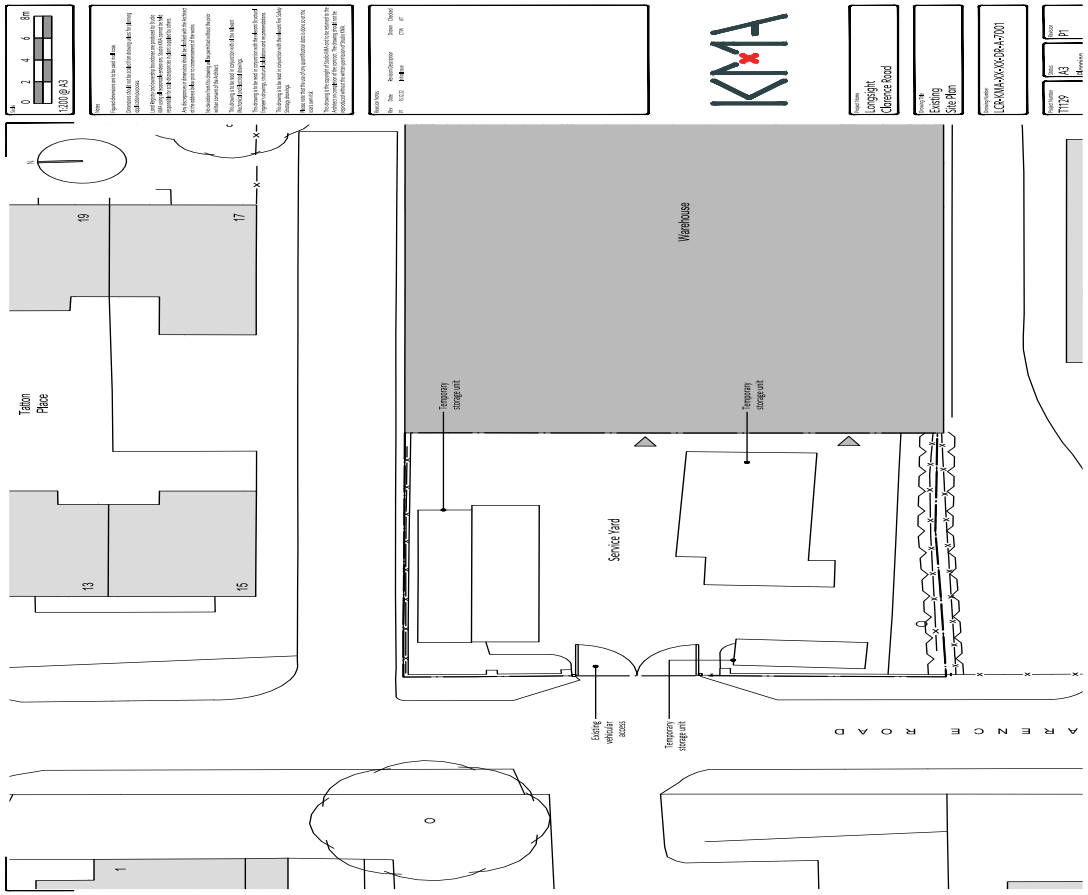
APPENDICES

Appendix A – Site Location and Site Plan



enviro | solution	**Site Location Map**

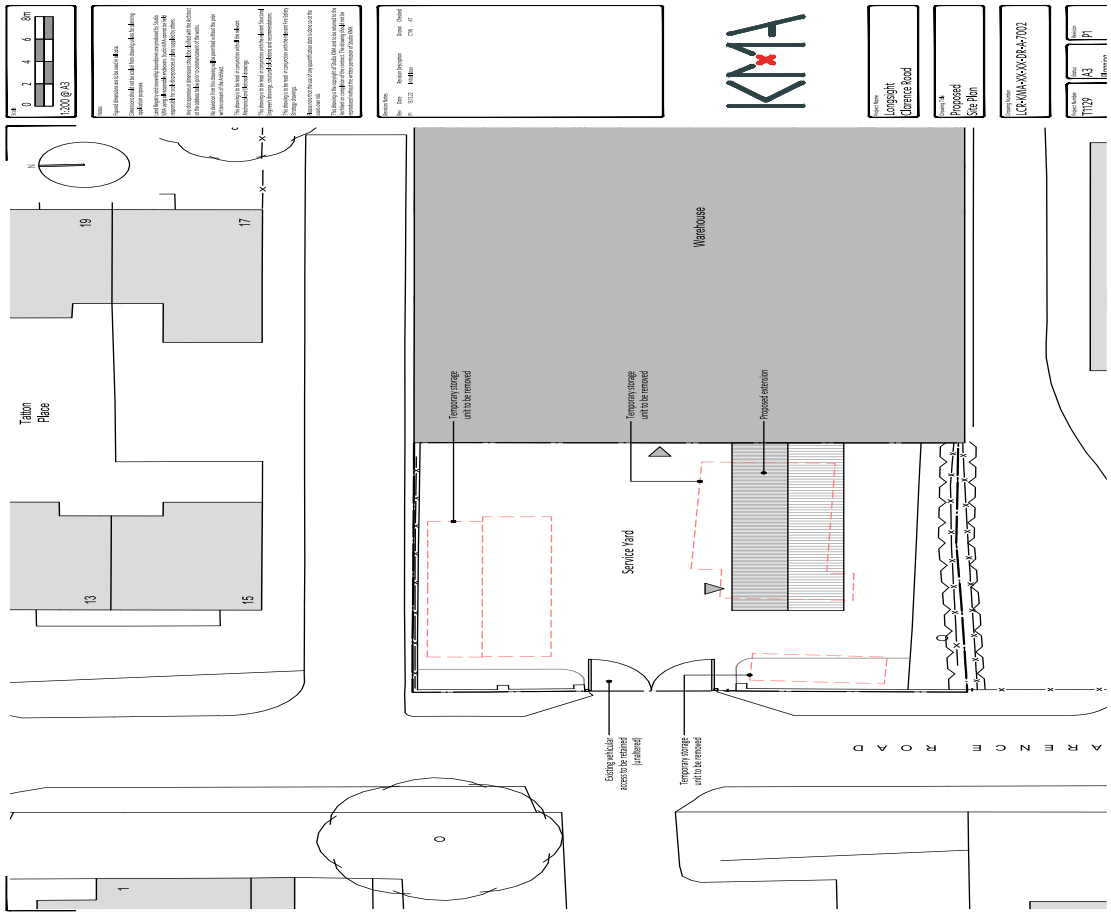
Figure 1



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Existing Site Plan

Figure 2



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Proposed Development Plan

Figure 3

Appendix B – Site Photographs



enviro | solution	**View looking northeast from Clarence Road**



enviro | solution	**Site entrance along Clarence Road**



enviro | solution	**Northern boundary**



enviro | solution	**Storage of containers in yard area**



enviro | solution	**Storage of bins and vehicles**



enviro | solution	**Warehouse building adjacent to the eastern boundary**

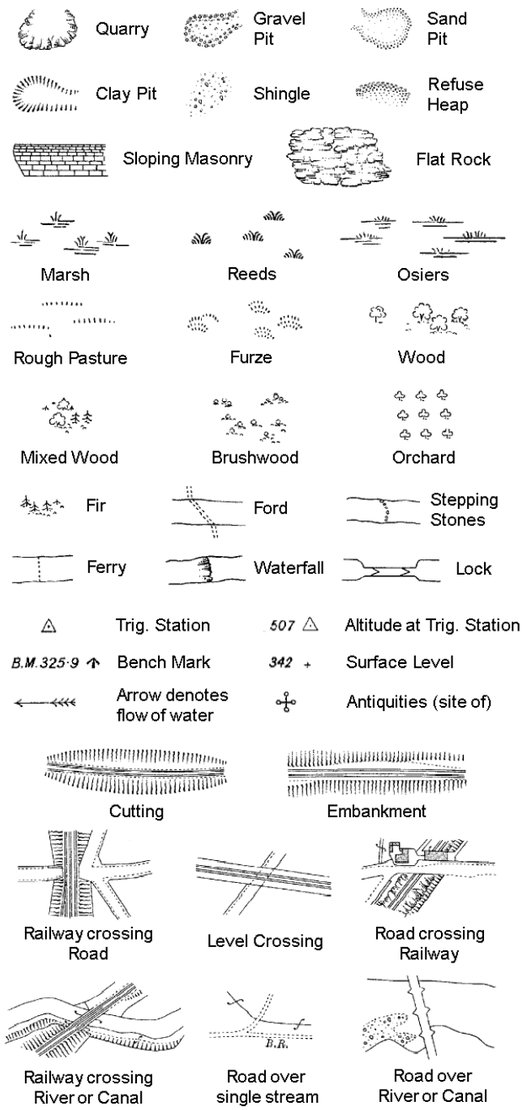


enviro | solution	**Warehouse entrance adjacent to the eastern site boundary**

Appendix C – Historic Maps

Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

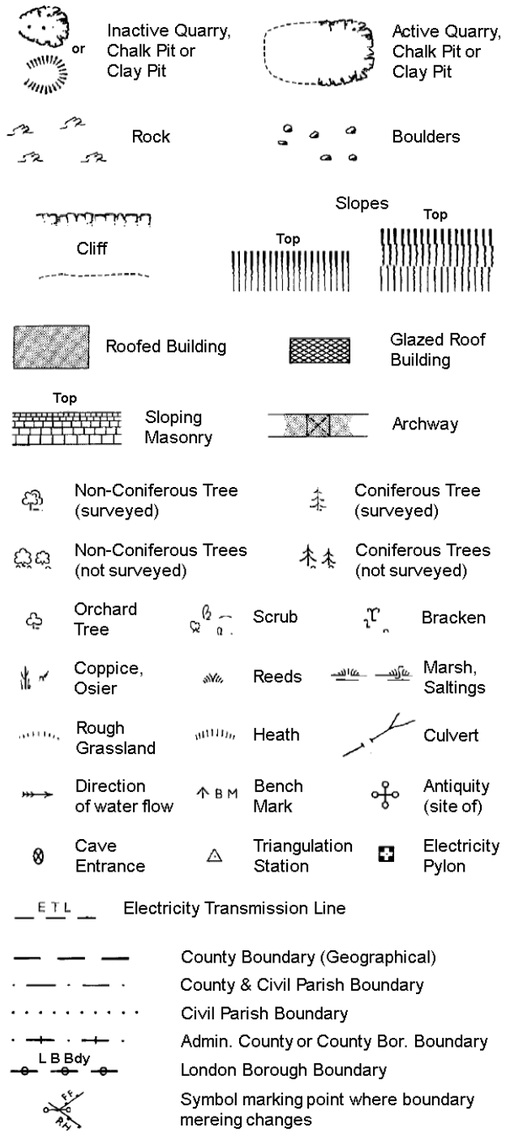
Administrative County & Civil Parish Boundary

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

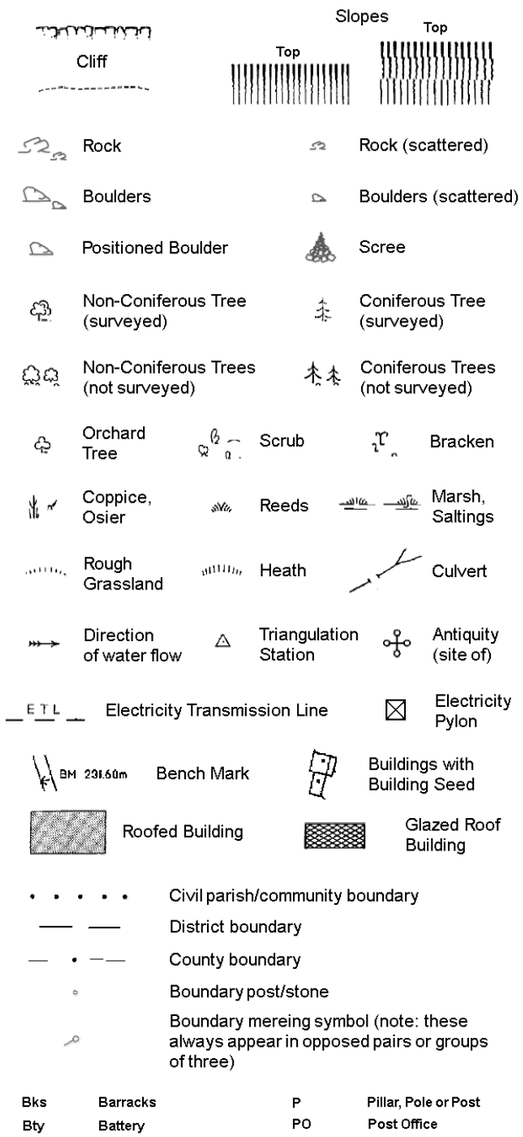
Admin. County or County Bor. Boundary

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

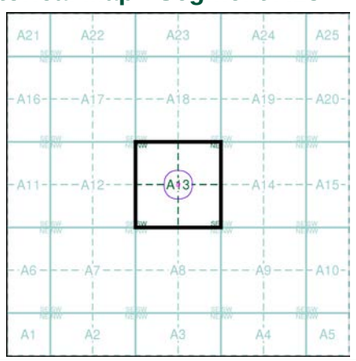
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1933	4
Ordnance Survey Plan	1:1,250	1950 - 1951	5
Ordnance Survey Plan	1:2,500	1951 - 1952	6
Additional SIMs	1:1,250	1951 - 1992	7
Ordnance Survey Plan	1:2,500	1964	8
Ordnance Survey Plan	1:1,250	1972 - 1983	9
Additional SIMs	1:1,250	1979 - 1991	10
Additional SIMs	1:1,250	1983 - 1992	11
Large-Scale National Grid Data	1:1,250	1992	12
Large-Scale National Grid Data	1:1,250	1993 - 1995	13
Large-Scale National Grid Data	1:1,250	1996	14

Historical Map - Segment A13



Order Details

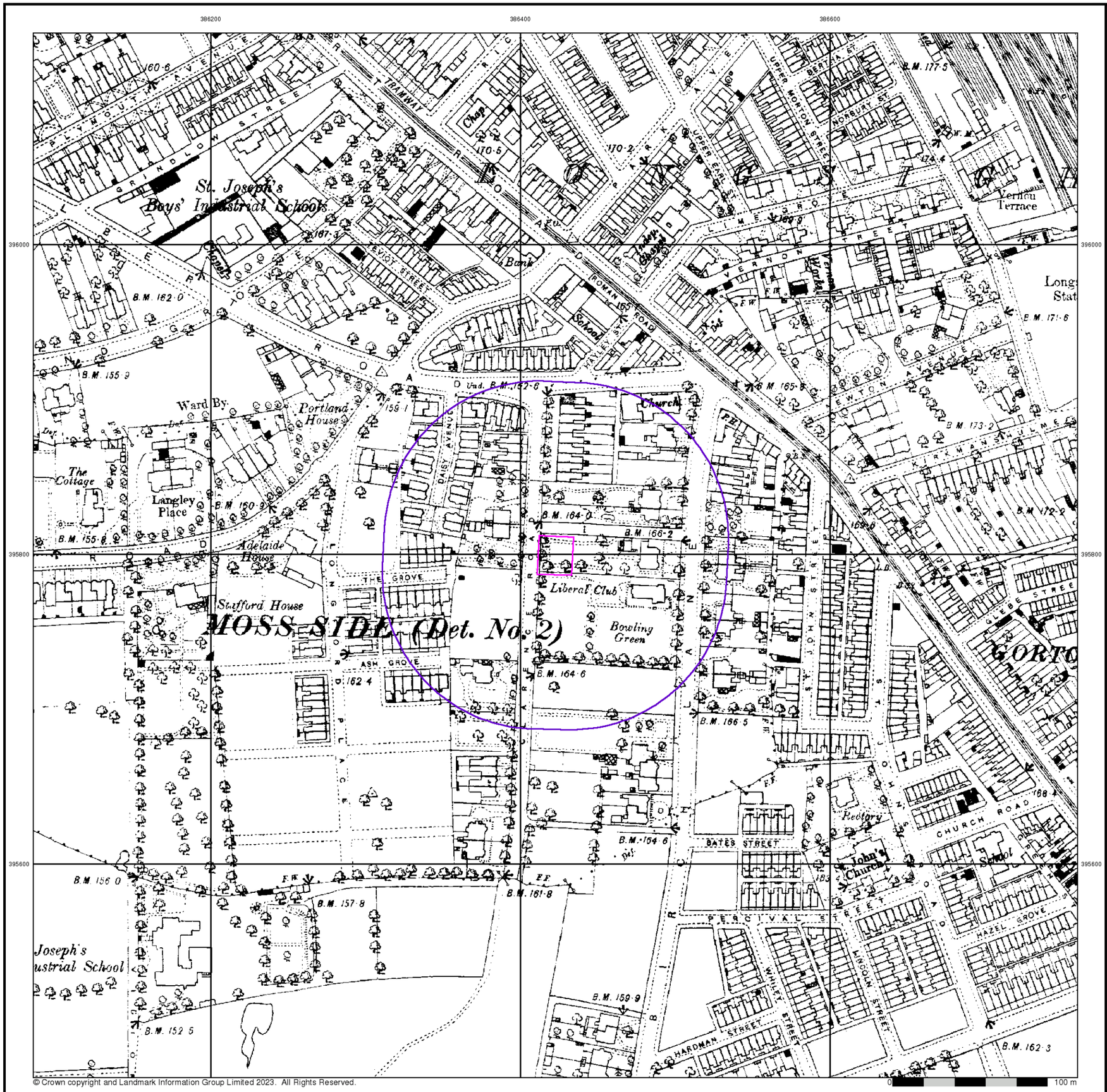
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Search Buffer (m):	100

Site Details

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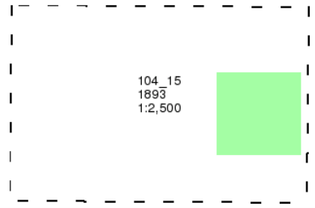
Lancashire And Furness

Published 1893

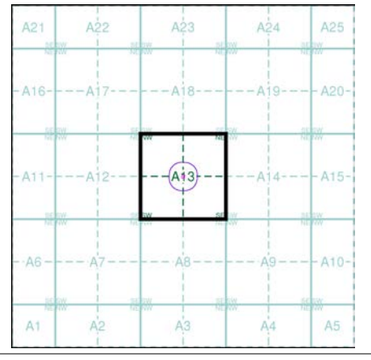
Source map scale - 1:2,500

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



Order Details

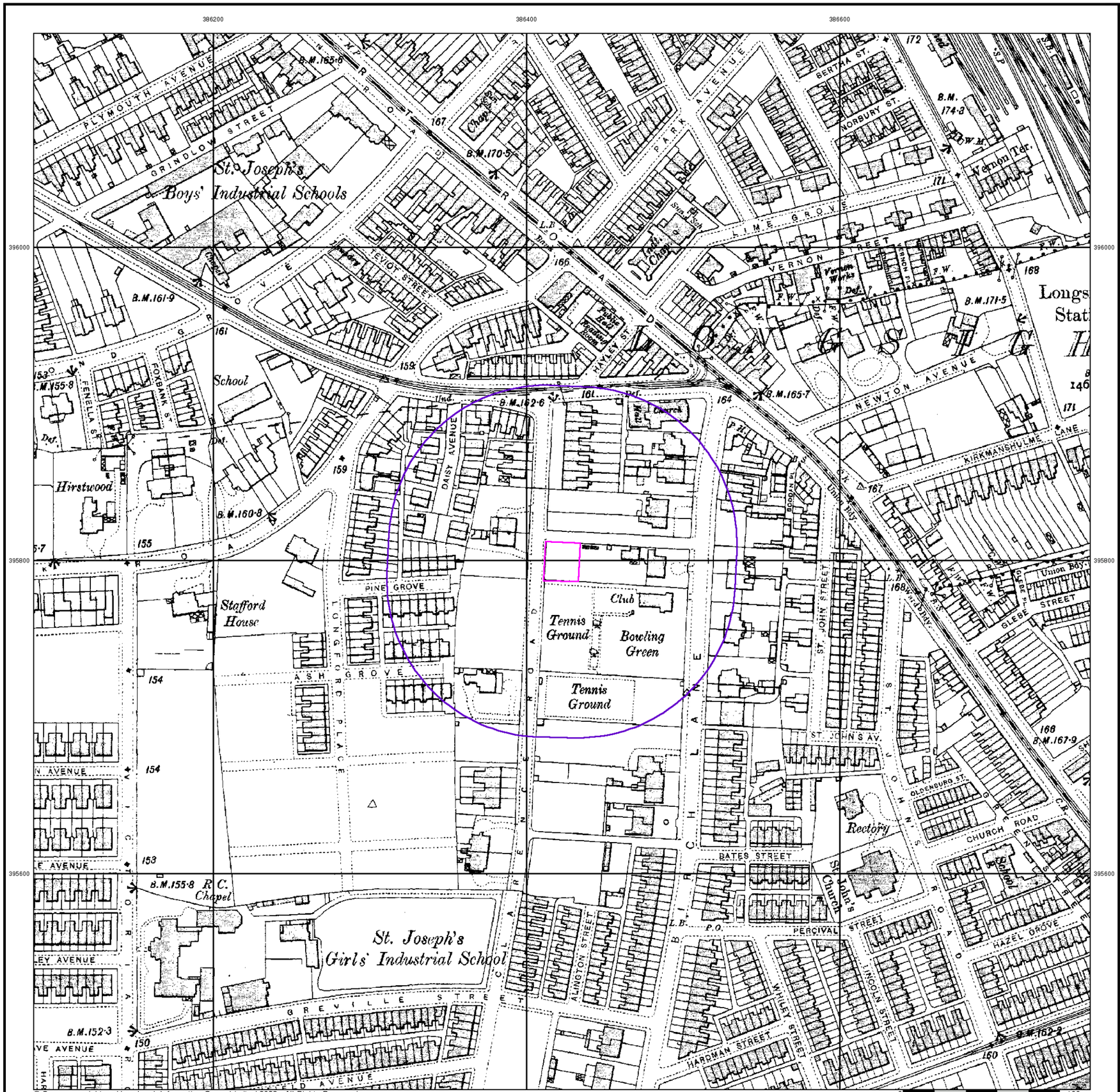
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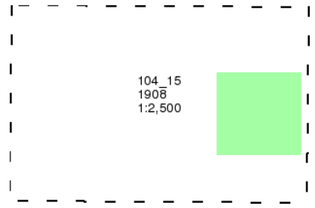
Lancashire And Furness

Published 1908

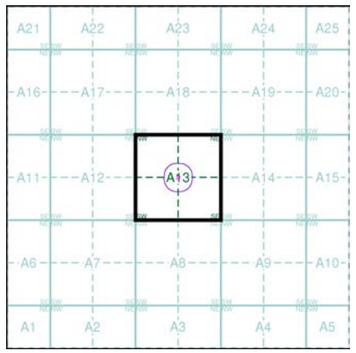
Source map scale - 1:2,500

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



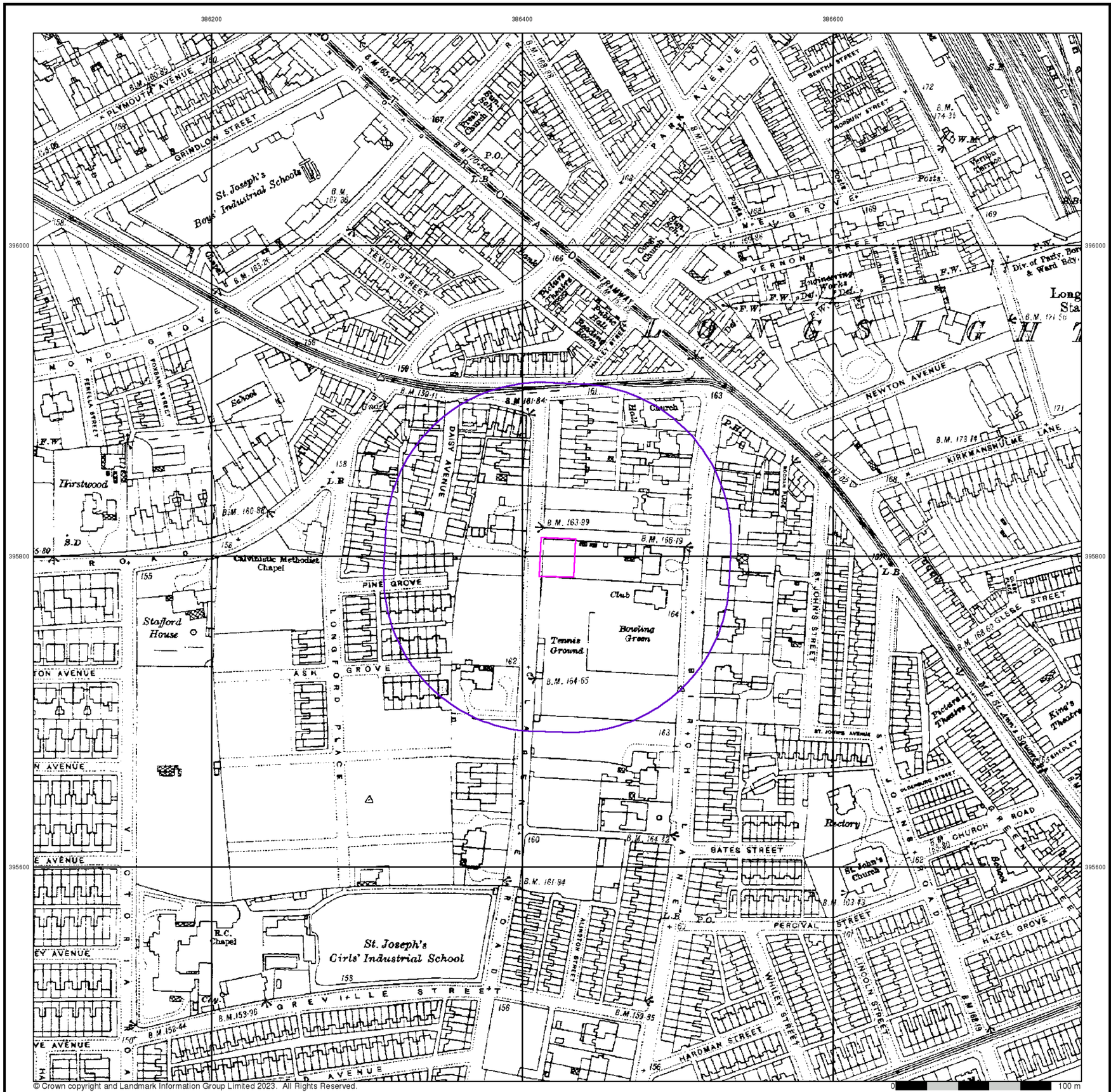
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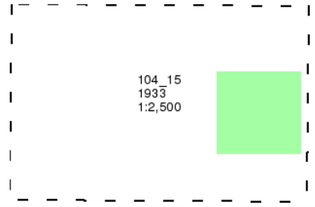
Lancashire And Furness

Published 1933

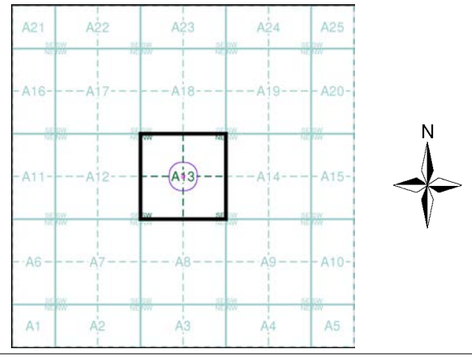
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

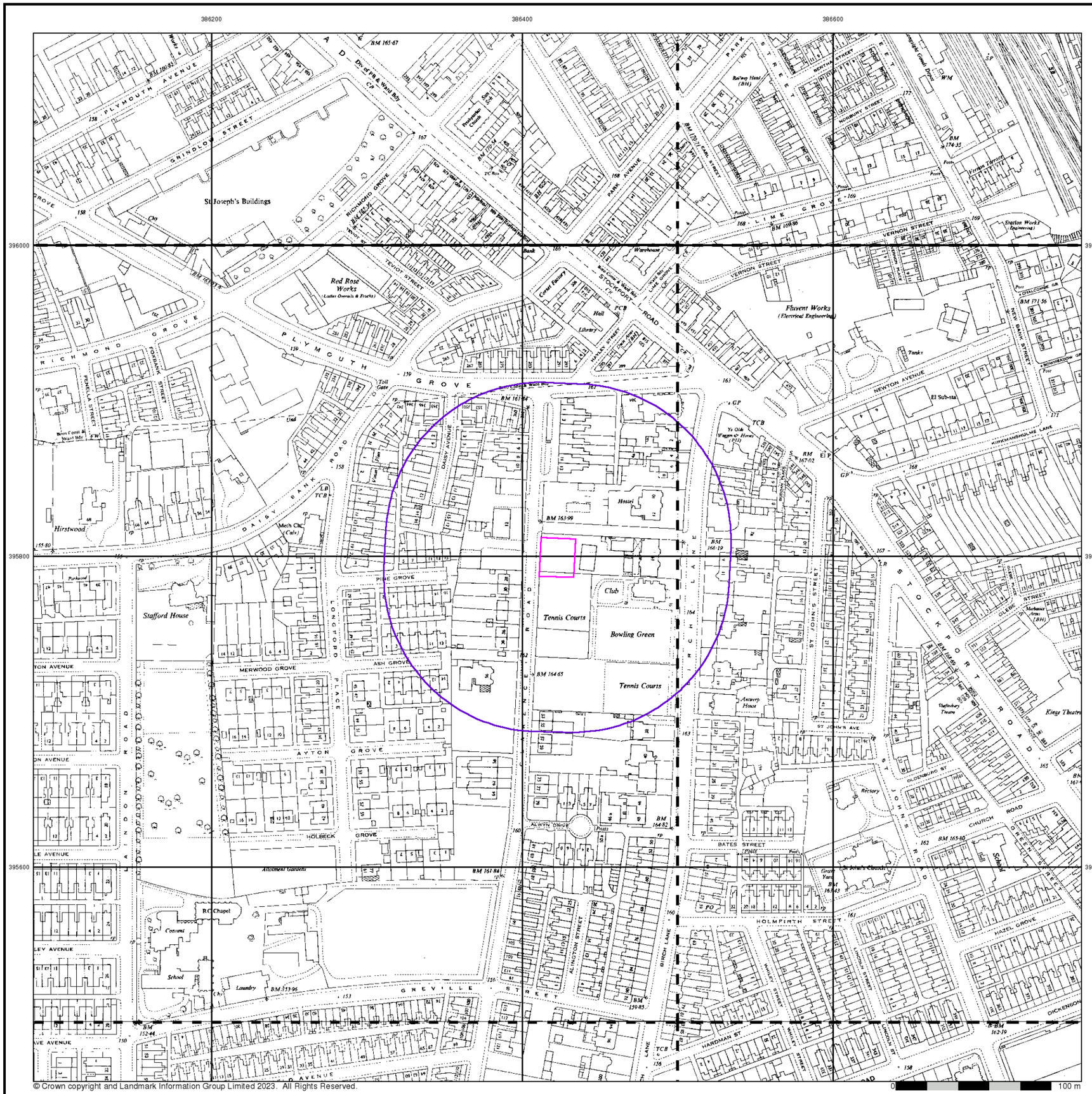
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Search Buffer (m):	100

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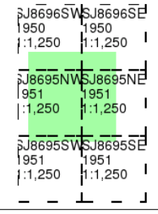
Ordnance Survey Plan

Published 1950 - 1951

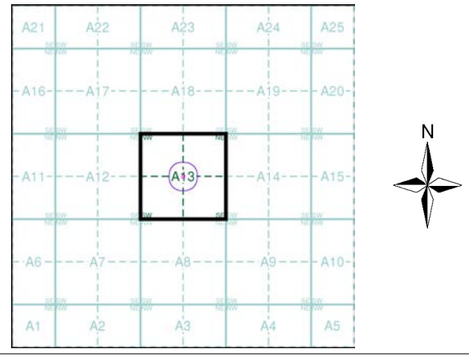
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	306377960_1_1
Customer Ref:	ES270123
National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	100

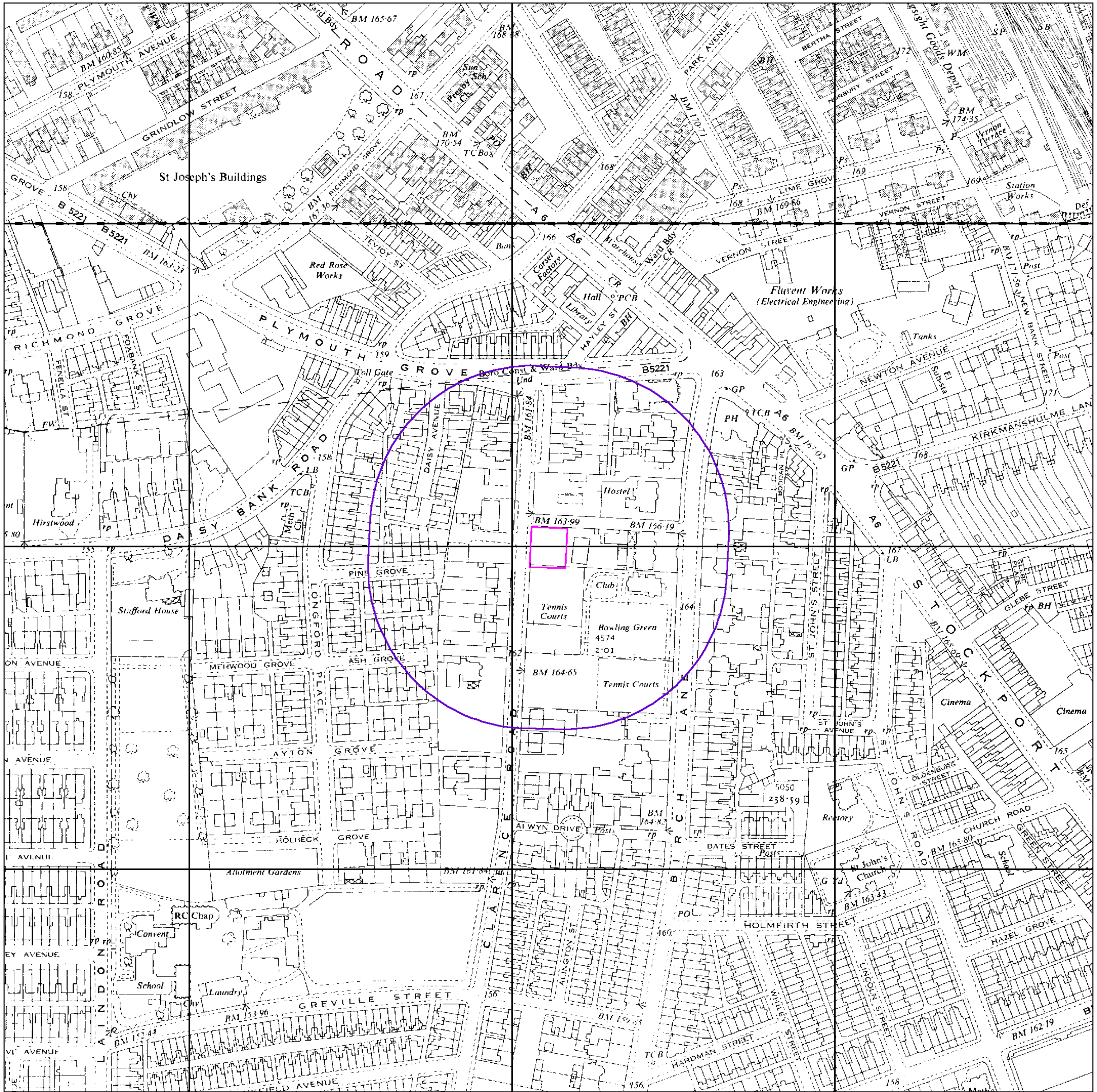
Site Details

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386200
386400
386600
396000
395800
395600



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Ordnance Survey Plan

Published 1951 - 1952

Source map scale - 1:2,500

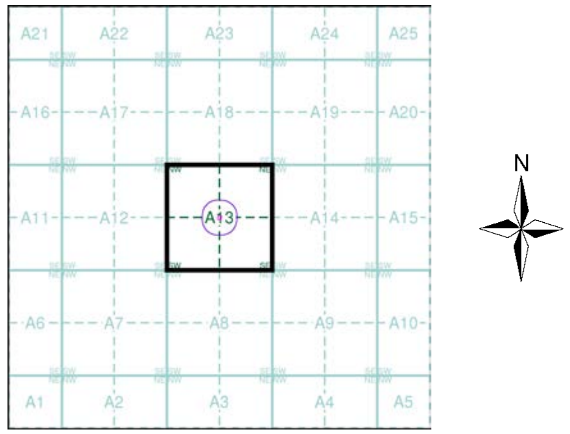
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Map Name(s) and Date(s)

SJ8696
1951
1:2,500

SJ8695
1952
1:2,500

Historical Map - Segment A13



Order Details

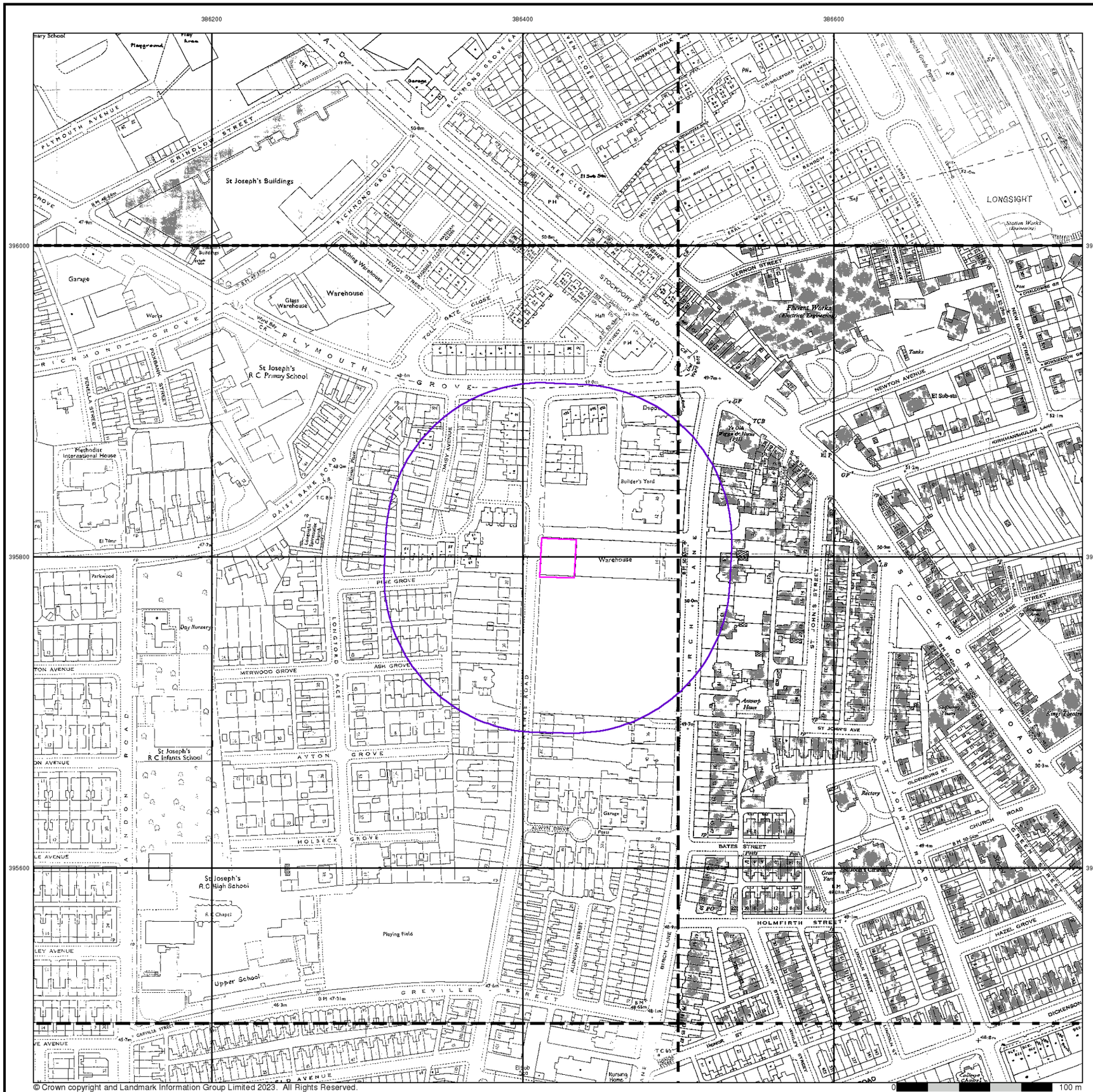
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Site Area (Ha): 0.06
Search Buffer (m): 100

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Additional SIMs

Published 1951 - 1992

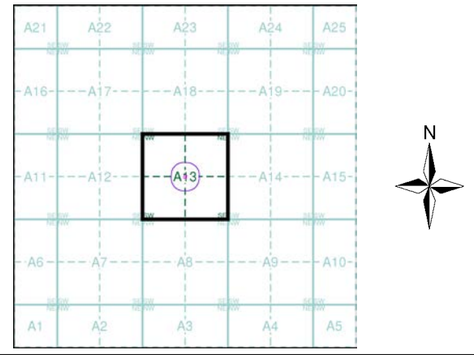
Source map scale - 1:1,250

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)

SJ8696SW 1991 1:1,250	SJ8696SE 1978 1:1,250
SJ8695NW 1979 1:1,250	SJ8695NE 1951 1:1,250
SJ8695SW 1992 1:1,250	SJ8695SE 1979 1:1,250

Historical Map - Segment A13



Order Details

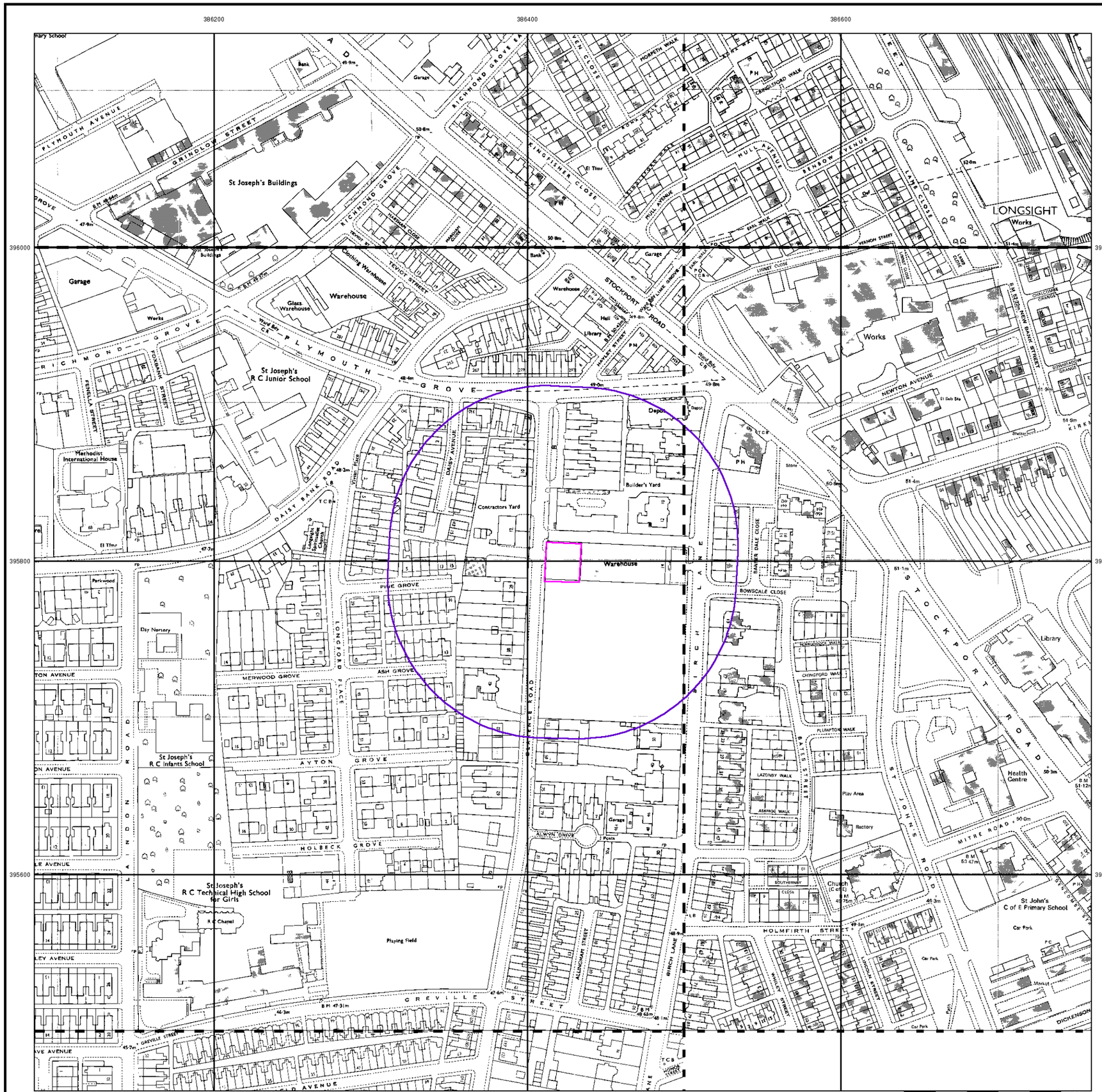
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National Grid Reference:	386420, 395800
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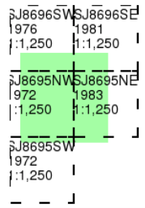
Ordnance Survey Plan

Published 1972 - 1983

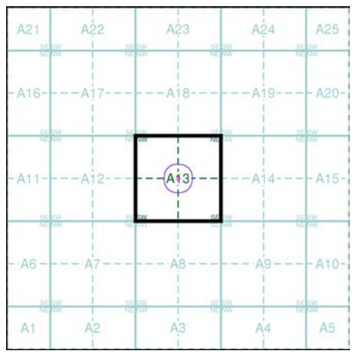
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

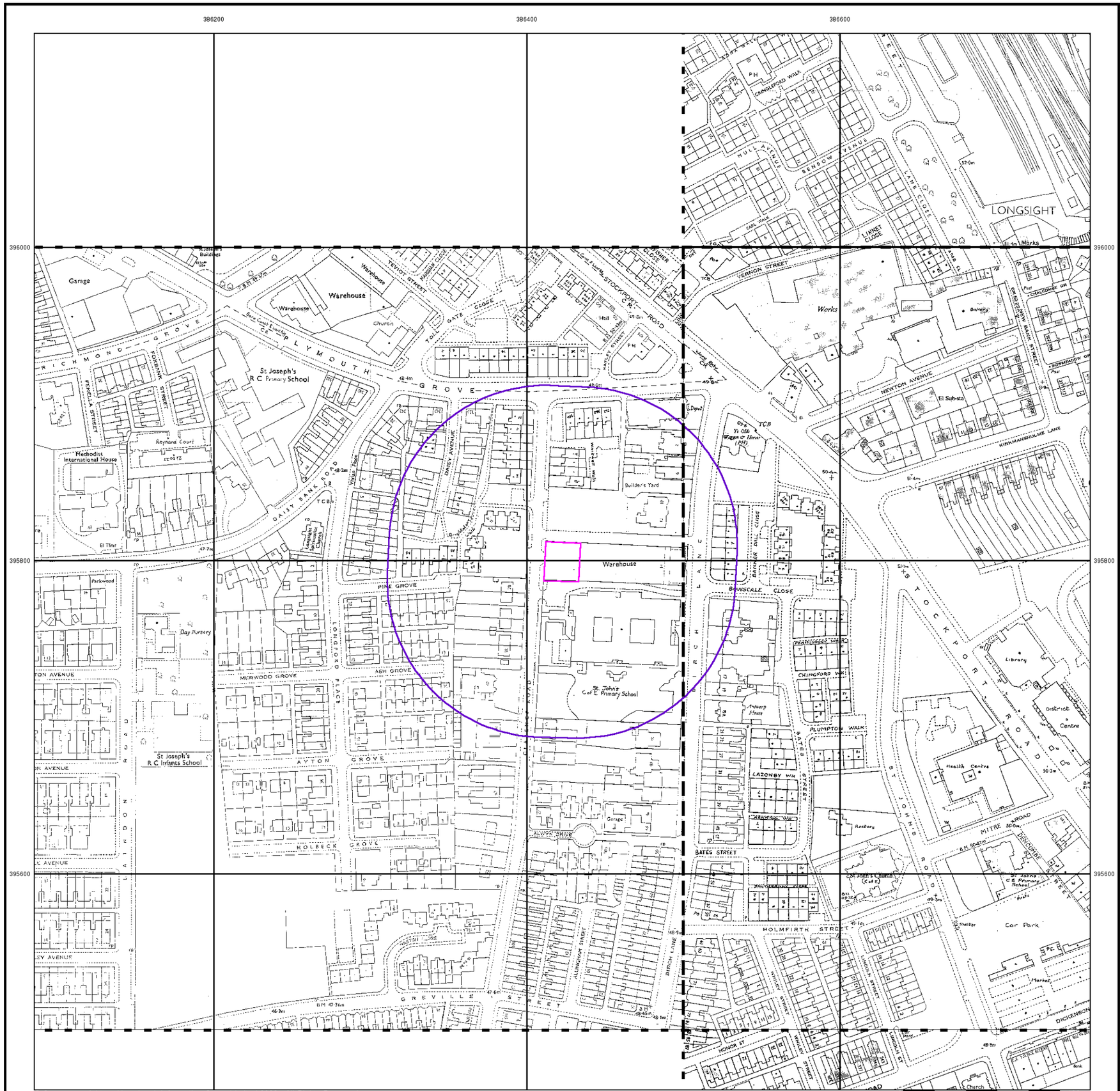
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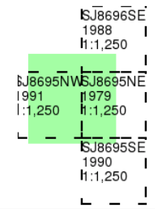
Additional SIMs

Published 1979 - 1991

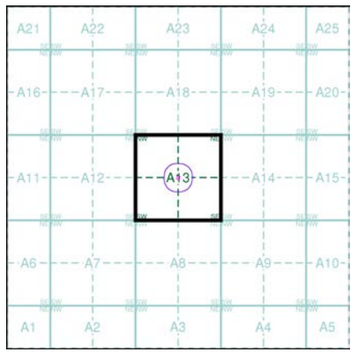
Source map scale - 1:1,250

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

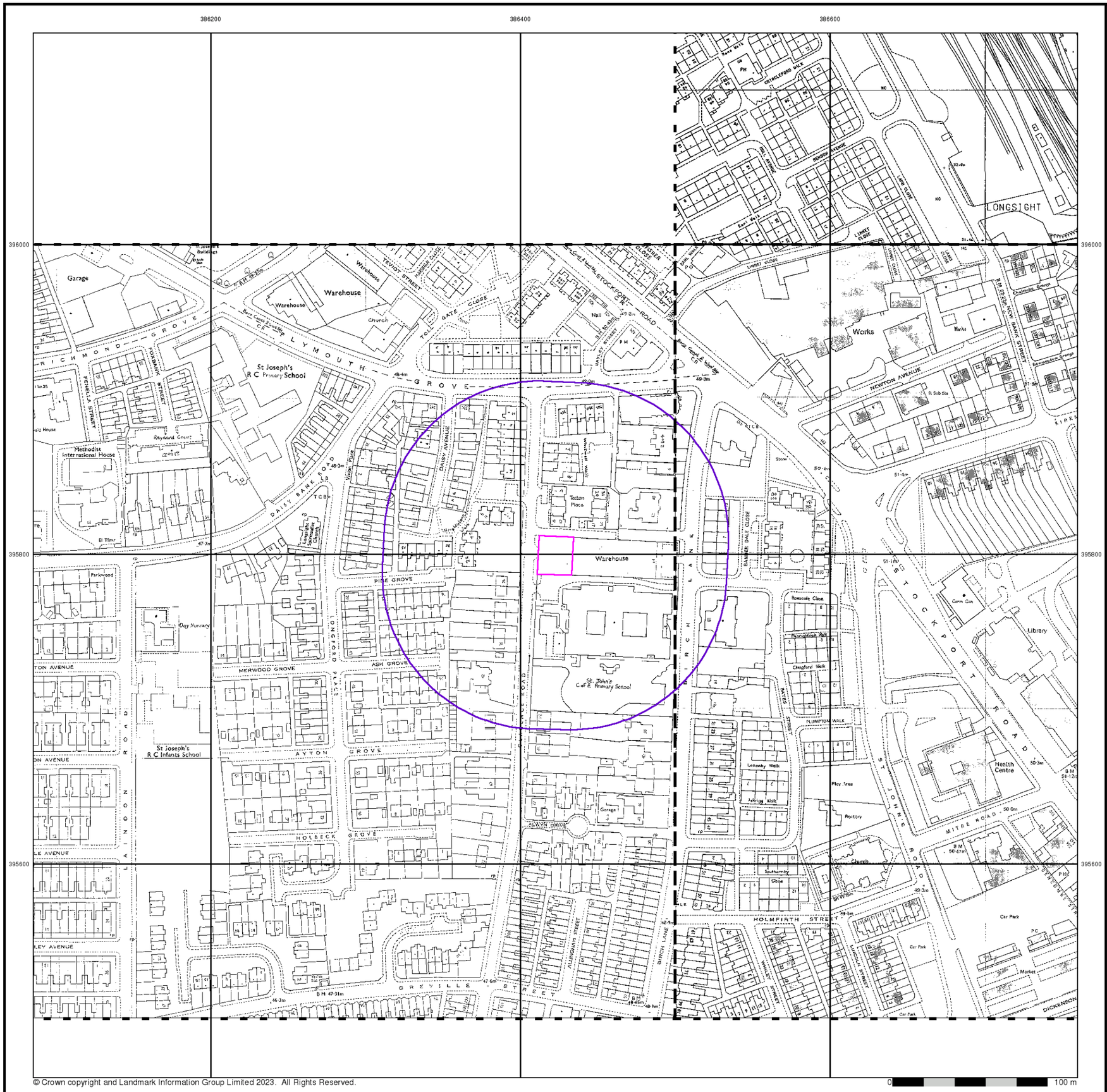
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Search Buffer (m):	100

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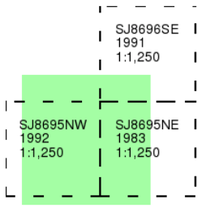
Additional SIMs

Published 1983 - 1992

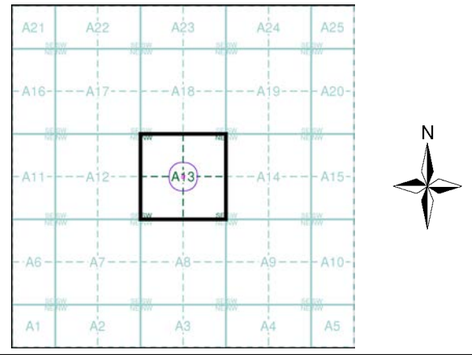
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

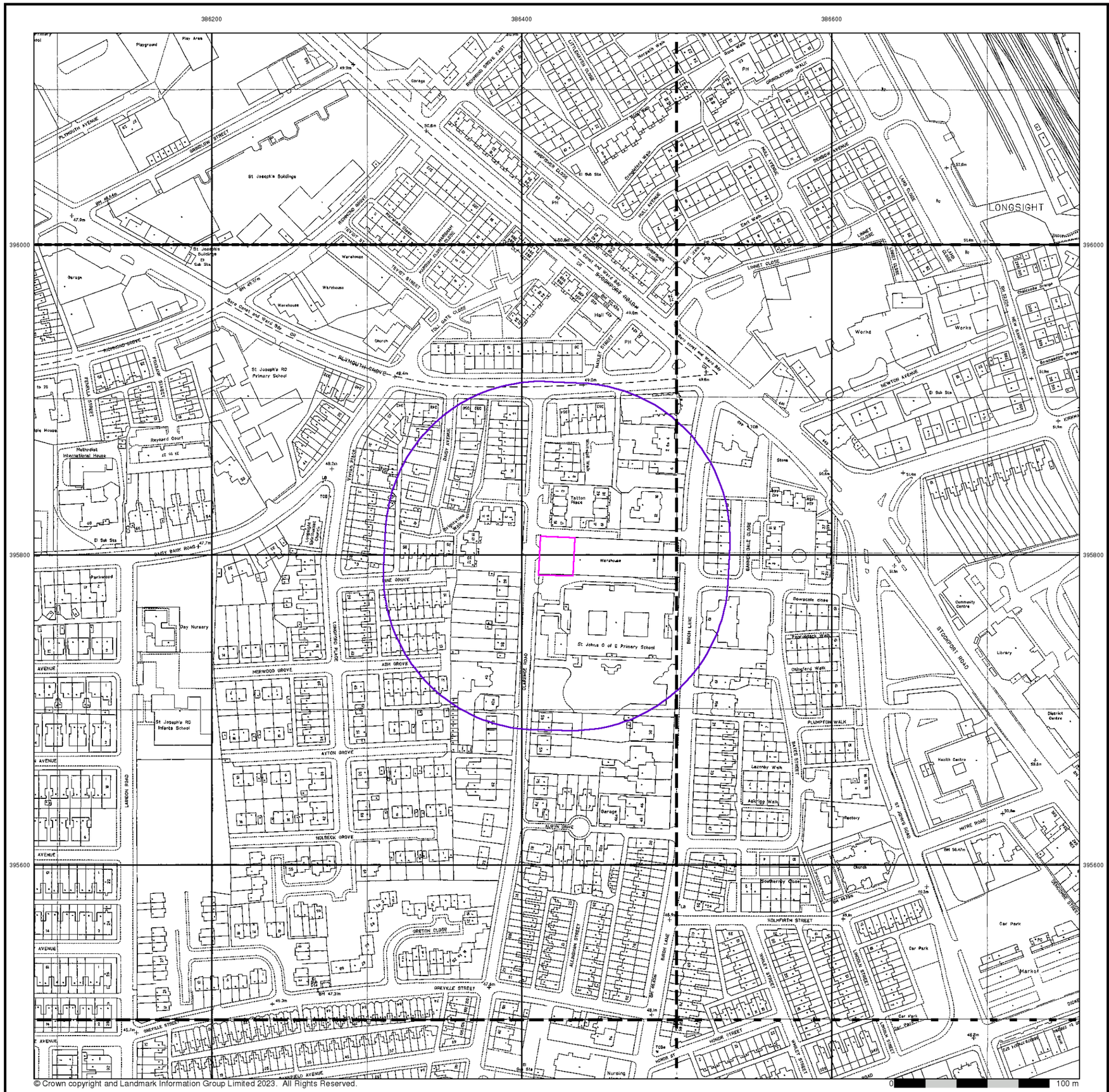
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Search Buffer (m):	100

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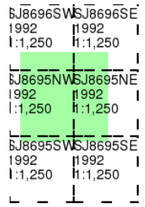
Large-Scale National Grid Data

Published 1992

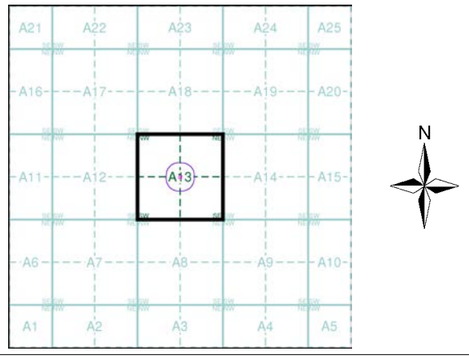
Source map scale - 1:1,250

'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)



Historical Map - Segment A13



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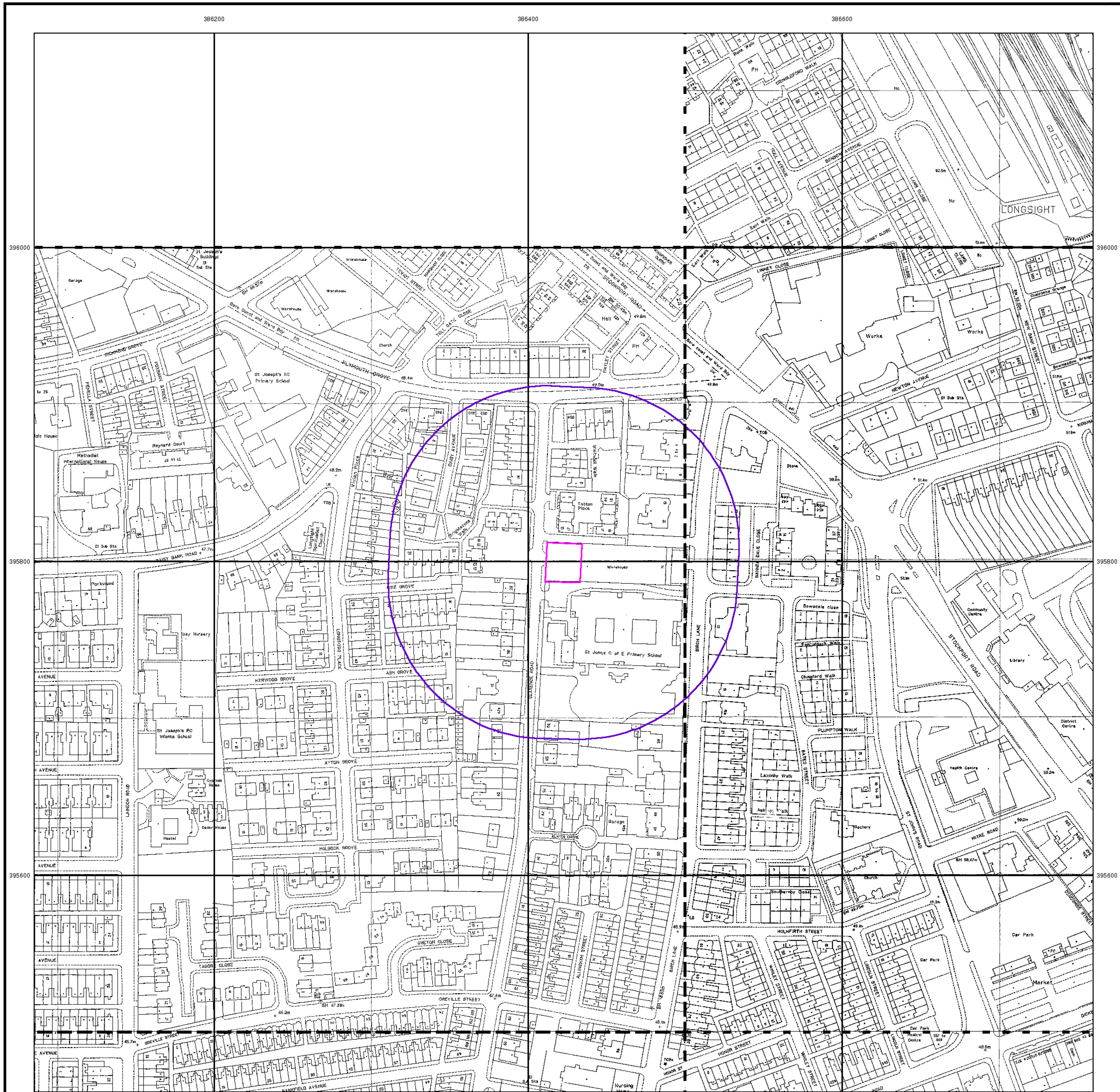
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Search Buffer (m):	100

Site Details

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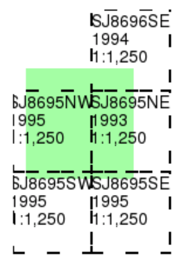
Large-Scale National Grid Data

Published 1993 - 1995

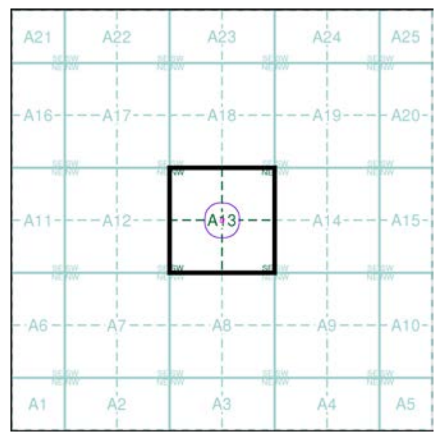
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Map Name(s) and Date(s)



Historical Map - Segment A13



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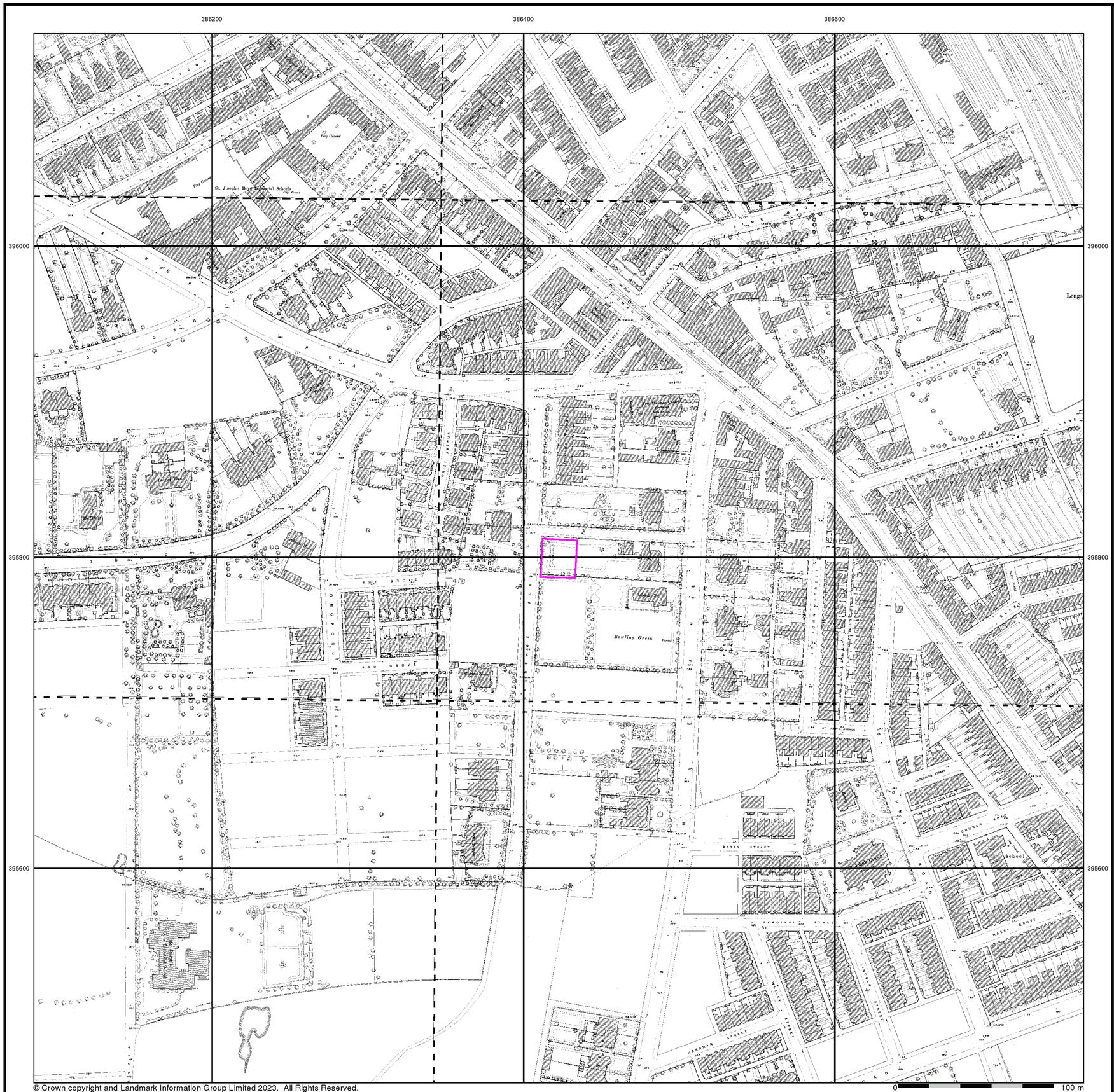
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Slice: A
Site Area (Ha): 0.06
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Lancashire And Furness

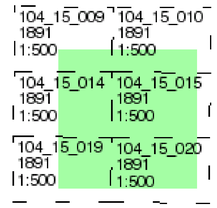
Published 1891

Source map scale - 1:500

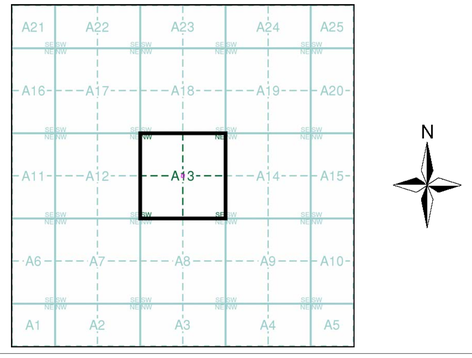
The 1:500 scale Ordnance Survey mapping was introduced in 1855 as a replacement for the 1:528 scale and to compliment the 1:2500 scale that had been implemented in 1853. By 1895, the 1:500 scale covered most towns over a population of about 4000 at the time of survey, although very few towns were mapped 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)



Historical Town Plan - Segment A13



Order Details

Order Number:	306377960_1_1
Customer Ref:	ES270123
National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	0

Site Details

Wing on Foods, 14, Birch Lane, Manchester, M13 0NN

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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

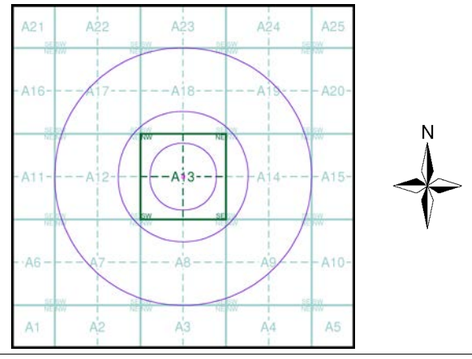
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or 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
Lancashire And Furness	1:10,560	1848	2
Cheshire	1:10,560	1882	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1908 - 1909	5
Lancashire And Furness	1:10,560	1923	6
Lancashire And Furness	1:10,560	1933 - 1934	7
Lancashire And Furness	1:10,560	1938	8
Ordnance Survey Plan	1:10,000	1955 - 1956	9
Ordnance Survey Plan	1:10,000	1965 - 1968	10
Ordnance Survey Plan	1:10,000	1976	11
Ordnance Survey Plan	1:10,000	1981 - 1985	12
Ordnance Survey Plan	1:10,000	1987	13
Ordnance Survey Plan	1:10,000	1990 - 1993	14
10K Raster Mapping	1:10,000	1999	15
Street View	Variable		16

Historical Map - Slice A



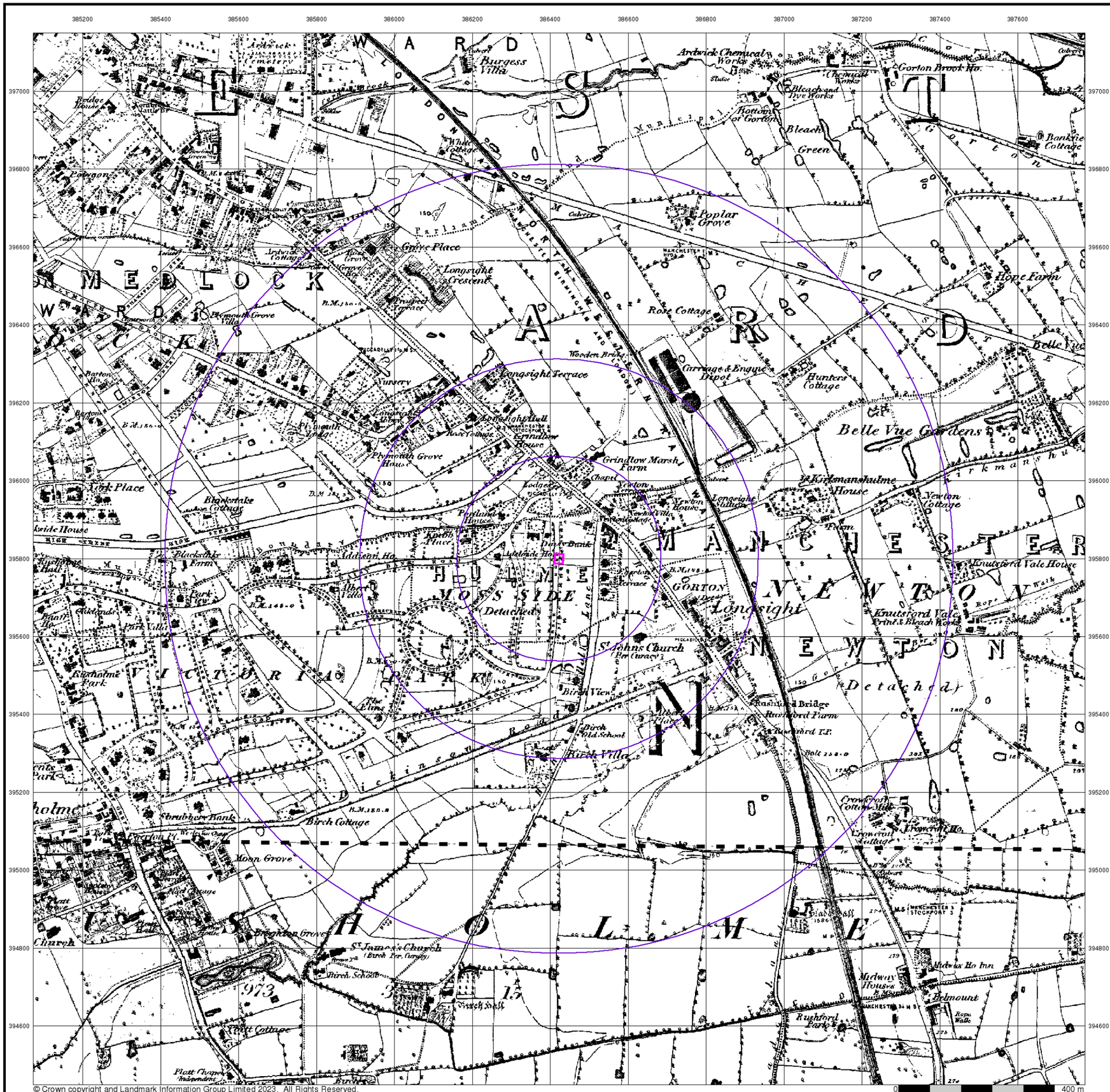
Order Details

Order Number: 306377960_1_1
Customer Ref: ES270123
National Grid Reference: 386420, 395800
Slice: A
Site Area (Ha): 0.06
Search Buffer (m): 1000

Site Details

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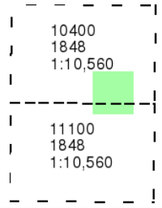
Lancashire And Furness

Published 1848

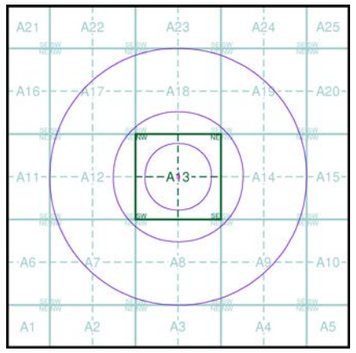
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	306377960_1_1
Customer Ref:	ES270123
National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

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Lancashire And Furness

Published 1894

Source map scale - 1:10,560

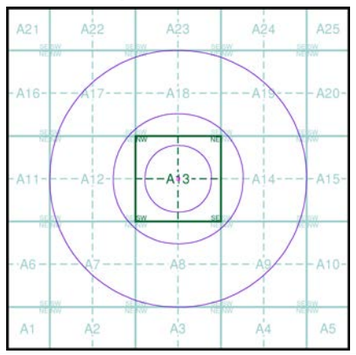
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

104SE
1894
1:10,560

111NE
1894
1:10,560

Historical Map - Slice A



Order Details

Order Number:	306377960_1_1
Customer Ref:	ES270123
National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

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Lancashire And Furness

Published 1908 - 1909

Source map scale - 1:10,560

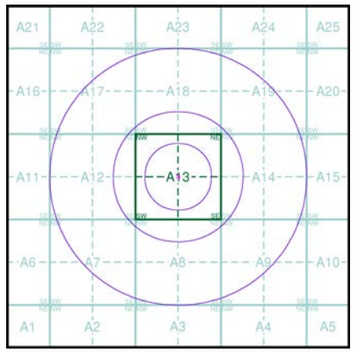
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

104SE
1909
1:10,560

111NE
1908
1:10,560

Historical Map - Slice A



Order Details

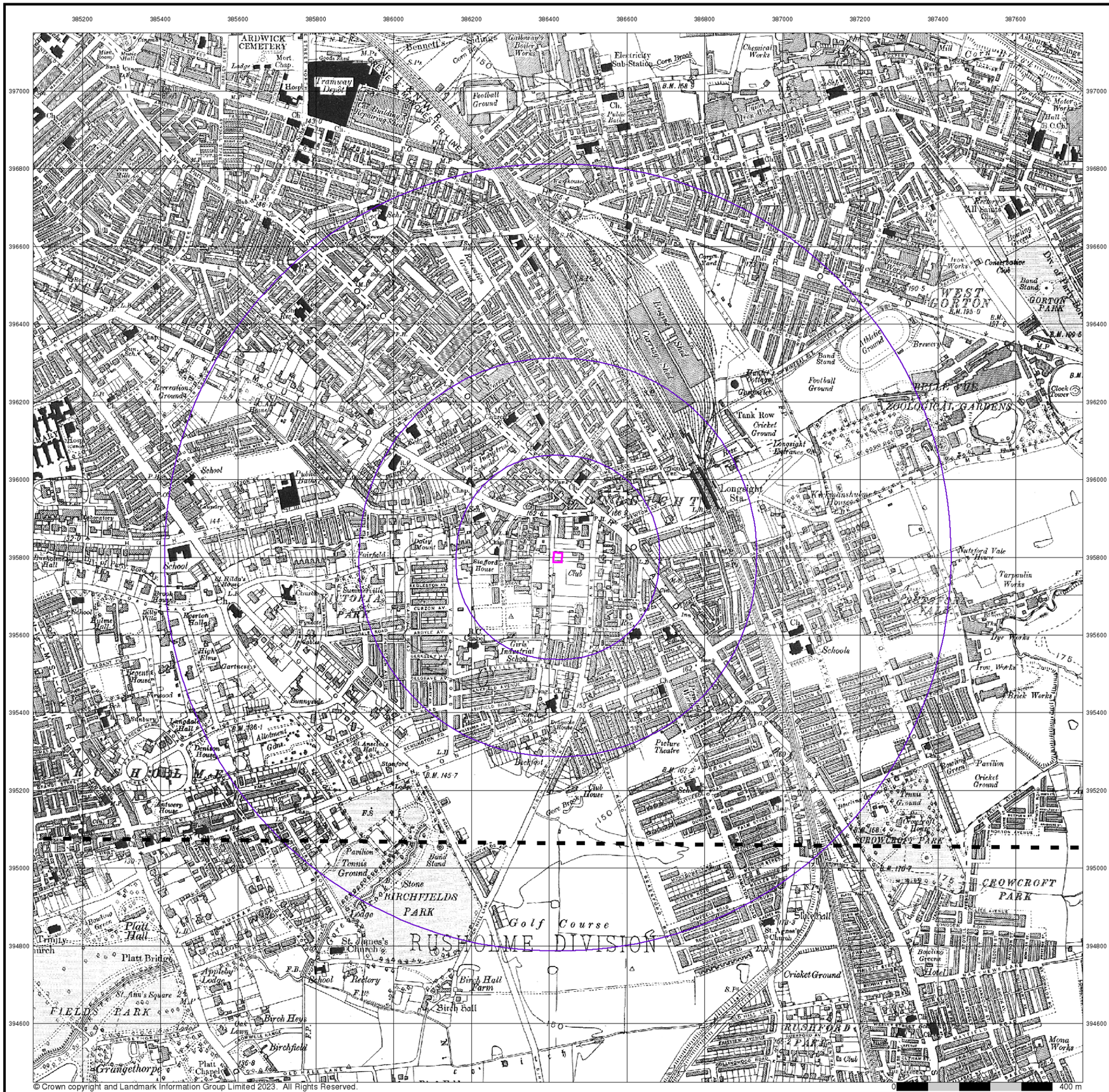
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Customer Ref:	ES270123
National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

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0 400 m

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Lancashire And Furness

Published 1923

Source map scale - 1:10,560

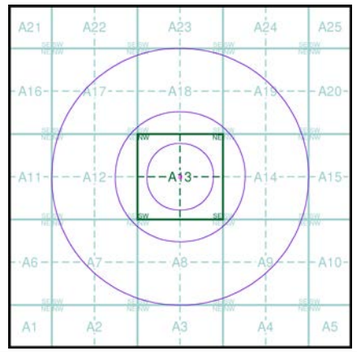
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Map Name(s) and Date(s)

104SE
1923
1:10,560

111NE
1923
1:10,560

Historical Map - Slice A



Order Details

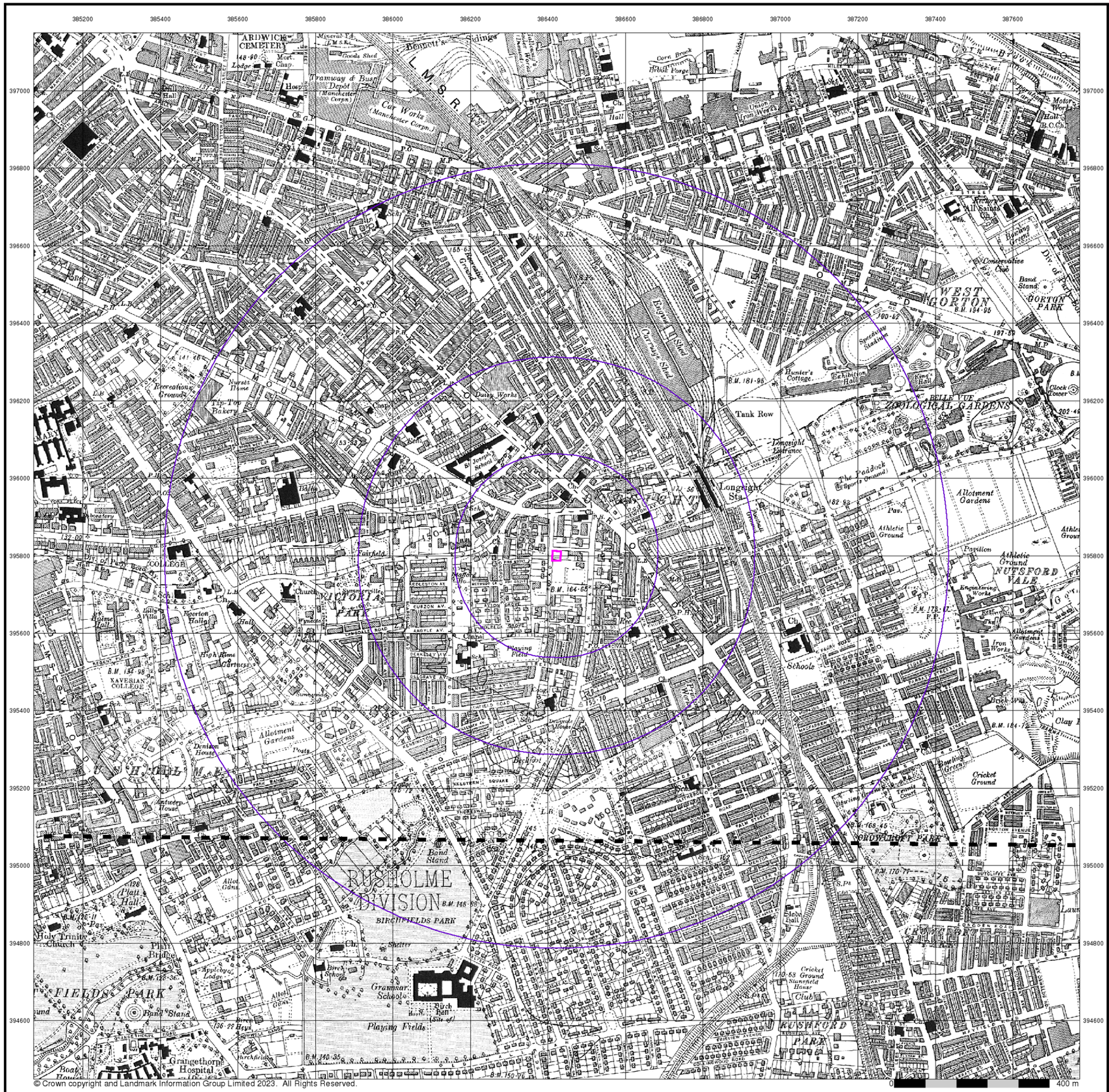
Order Number:	306377960_1_1
Customer Ref:	ES270123
National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

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Lancashire And Furness

Published 1933 - 1934

Source map scale - 1:10,560

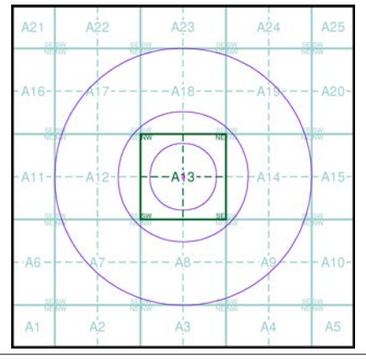
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

104SE
1933
1:10,560

111NE
1934
1:10,560

Historical Map - Slice A



Order Details

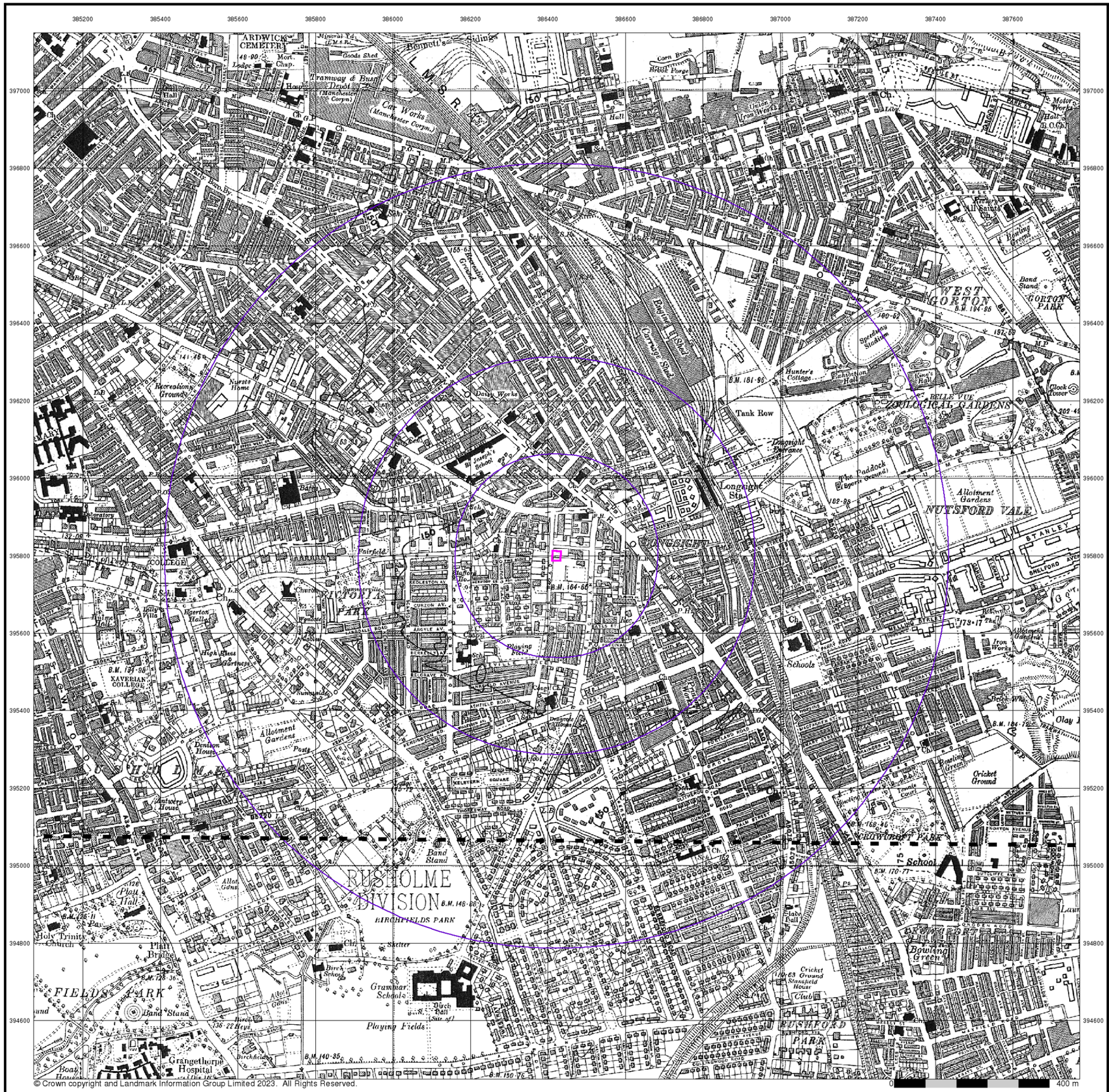
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Customer Ref:	ES270123
National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

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Lancashire And Furness

Published 1938

Source map scale - 1:10,560

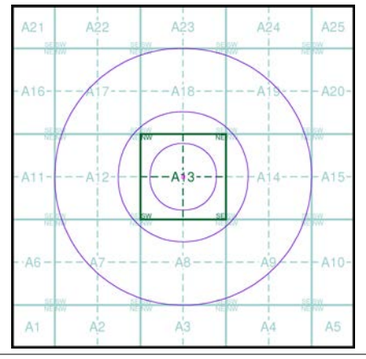
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

104SE
1938
1:10,560

111NE
1938
1:10,560

Historical Map - Slice A



Order Details

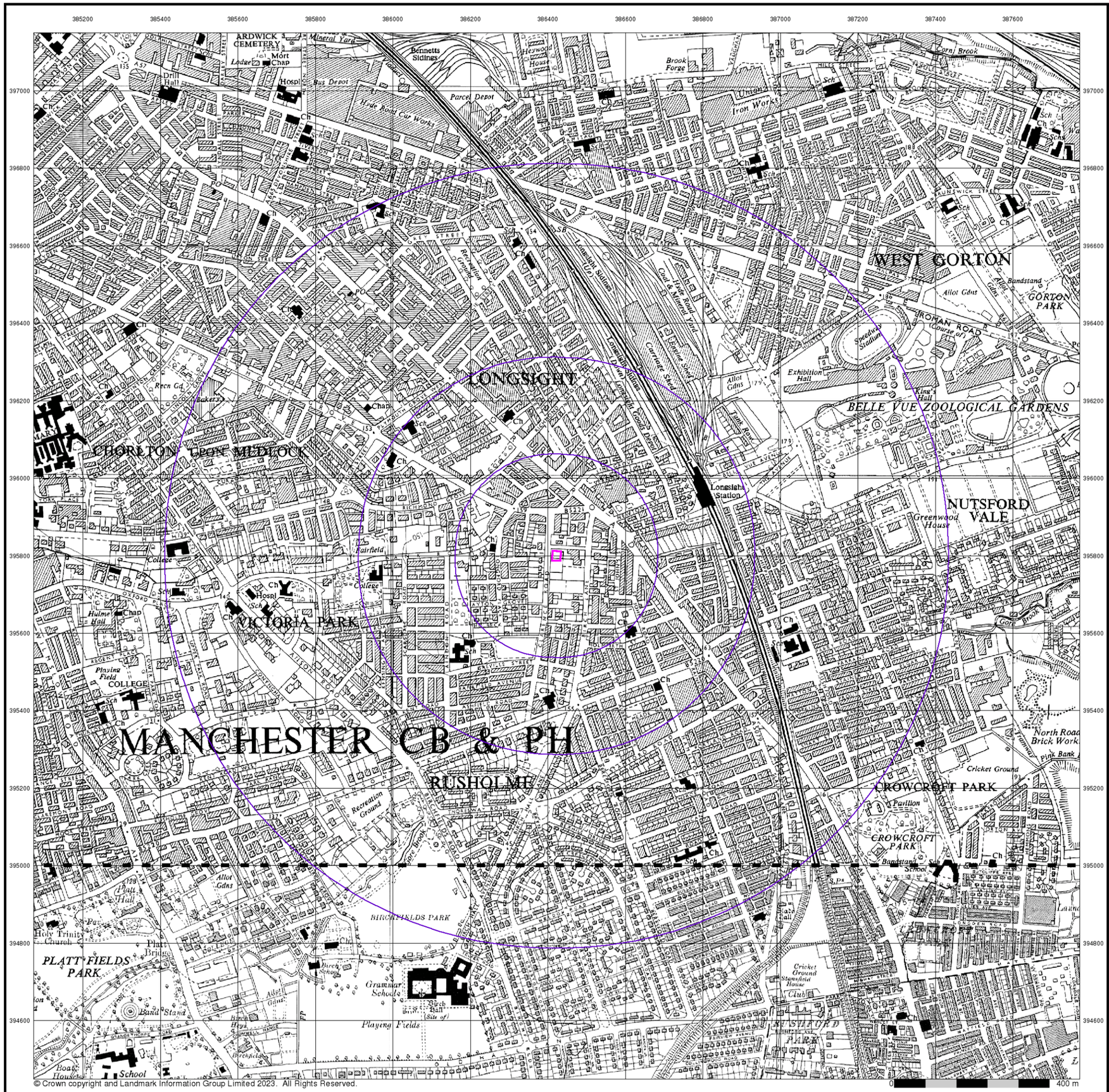
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Customer Ref:	ES270123
National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

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Ordnance Survey Plan

Published 1955 - 1956

Source map scale - 1:10,000

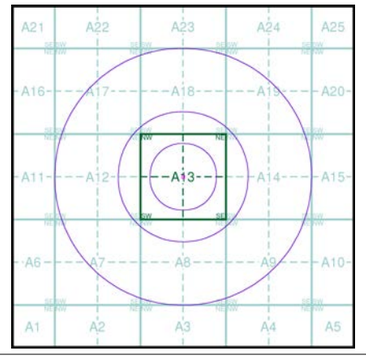
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)

SJ89NE
1956
1:10,560

SJ89SE
1955
1:10,560

Historical Map - Slice A



Order Details

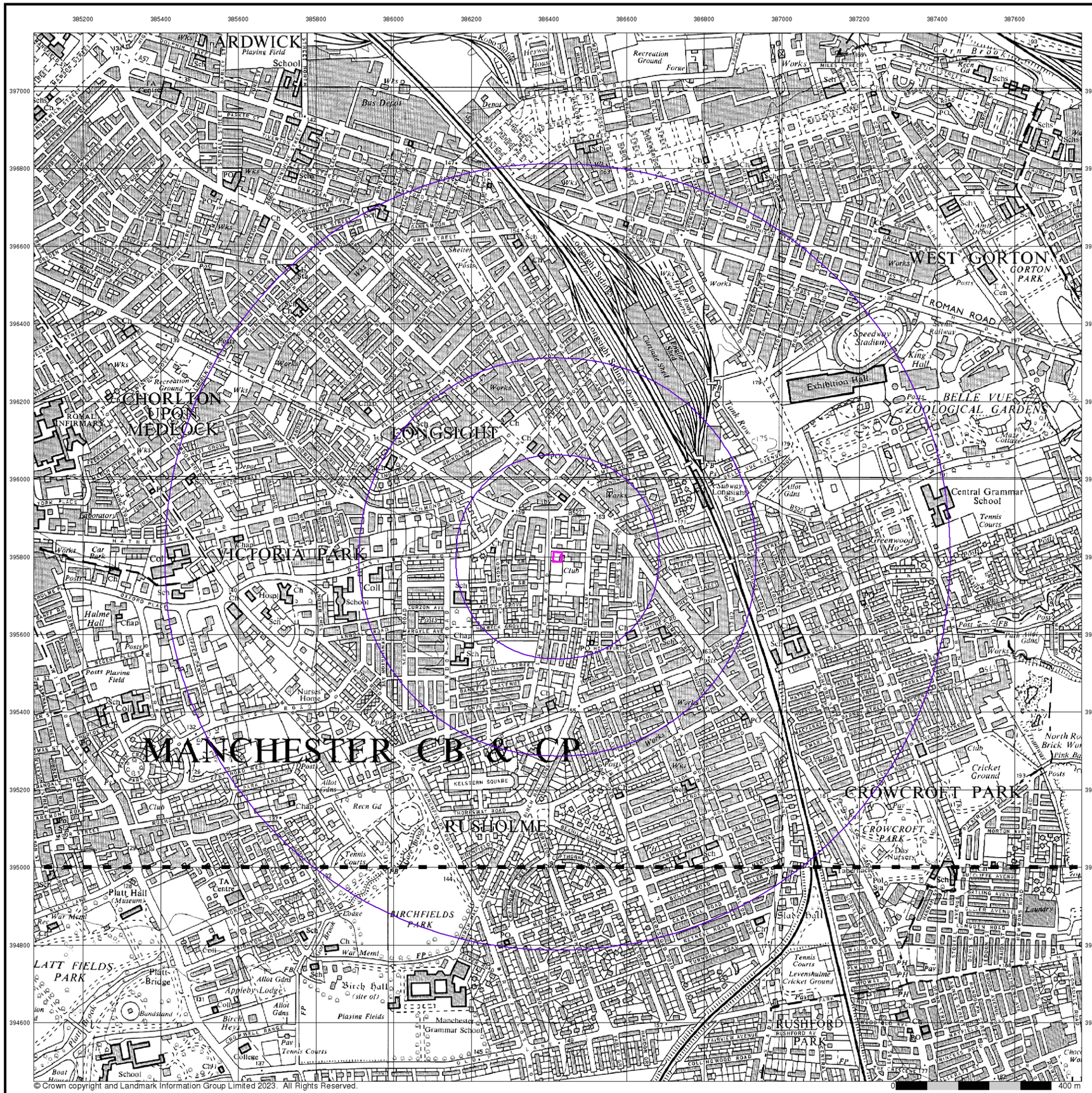
Order Number:	306377960_1_1
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Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

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Ordnance Survey Plan

Published 1965 - 1968

Source map scale - 1:10,000

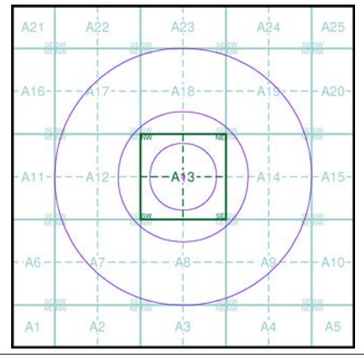
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Map Name(s) and Date(s)

SJ89NE
1968
1:10,560

SJ89SE
1965
1:10,560

Historical Map - Slice A



Order Details

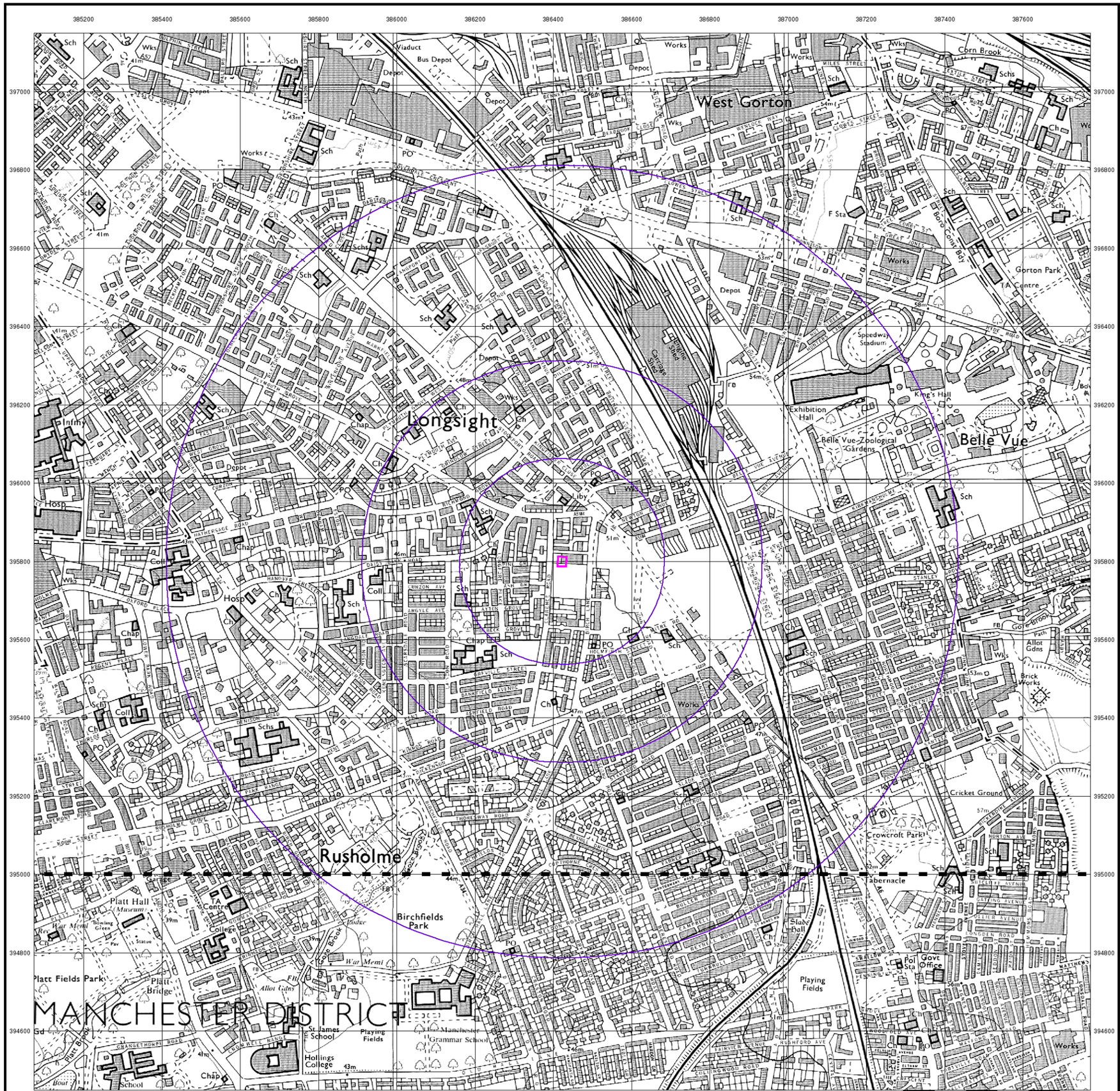
Order Number:	306377960_1_1
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National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

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Ordnance Survey Plan

Published 1981 - 1985

Source map scale - 1:10,000

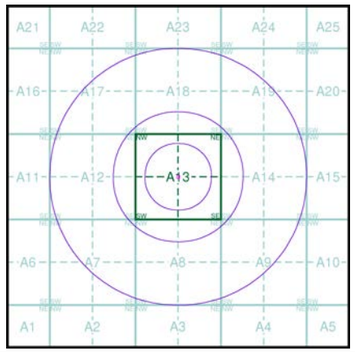
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)

SJ89NE
1981
1:10,000

SJ89SE
1985
1:10,000

Historical Map - Slice A



Order Details

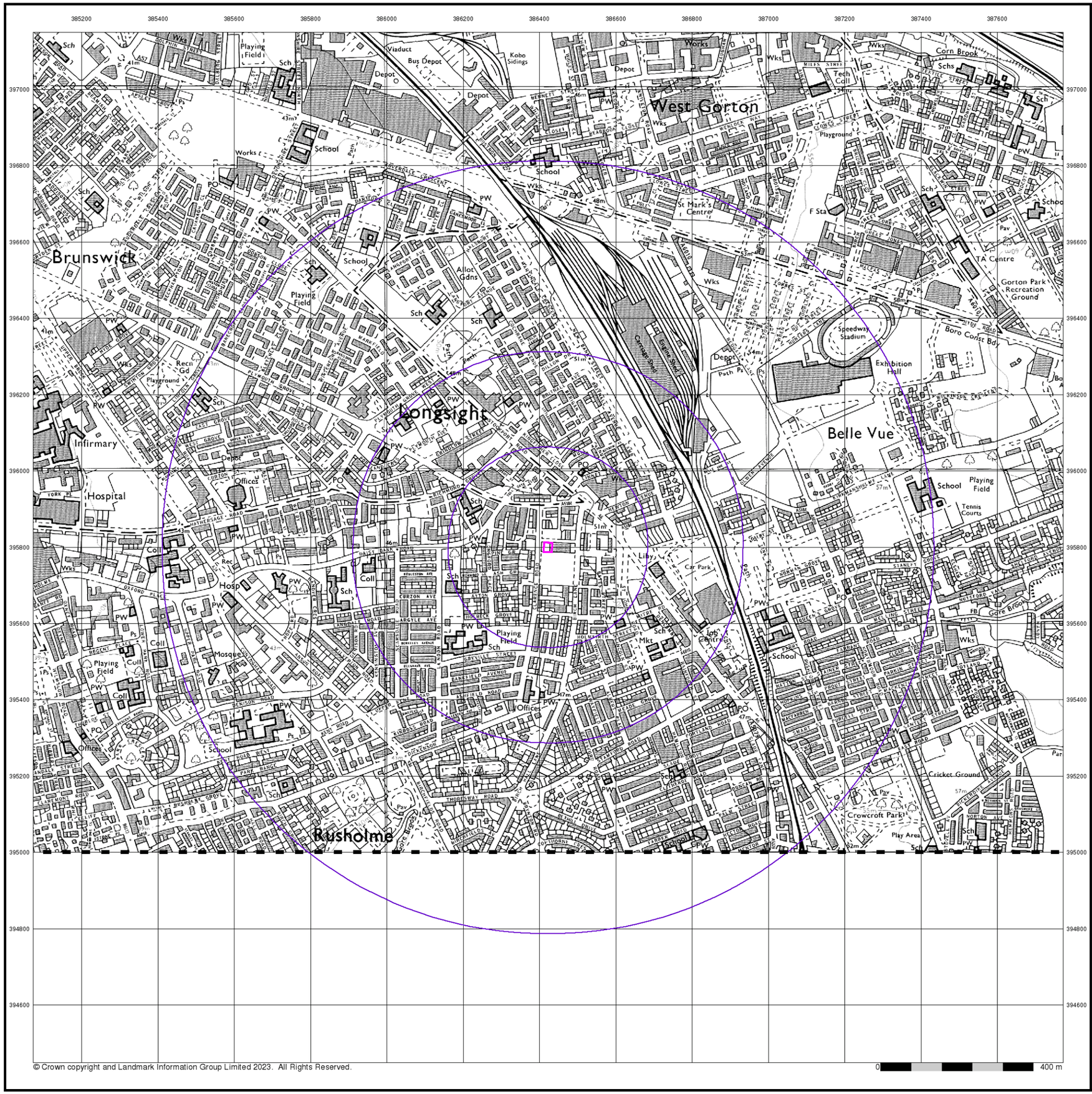
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Customer Ref:	ES270123
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Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

Wing on Foods, 14, Birch Lane, Manchester, M13 0NN

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Tel: 0844 844 9952
Fax: 0844 844 9951
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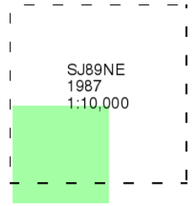
Ordnance Survey Plan

Published 1987

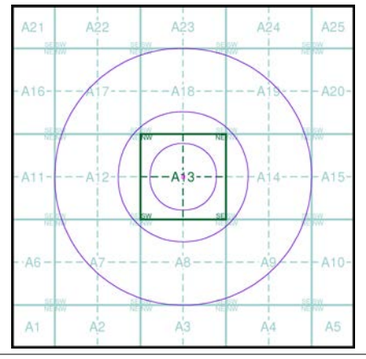
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	306377960_1_1
Customer Ref:	ES270123
National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

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Ordnance Survey Plan

Published 1990 - 1993

Source map scale - 1:10,000

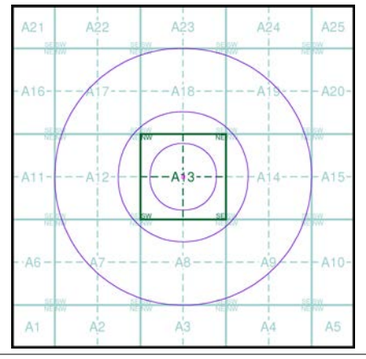
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)

SJ89NE
1993
1:10,000

SJ89SE
1990
1:10,000

Historical Map - Slice A



Order Details

Order Number:	306377960_1_1
Customer Ref:	ES270123
National Grid Reference:	386420, 395800
Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

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10k Raster Mapping

Published 1999

Source map scale - 1:10,000

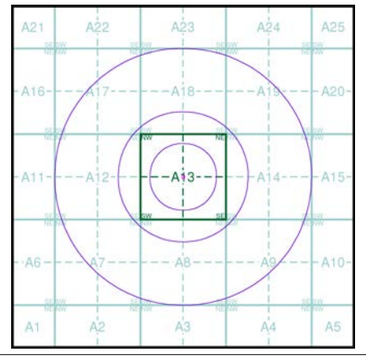
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks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

Map Name(s) and Date(s)

SJ89NE
1999
1:10,000

SJ89SE
1999
1:10,000

Historical Map - Slice A



Order Details

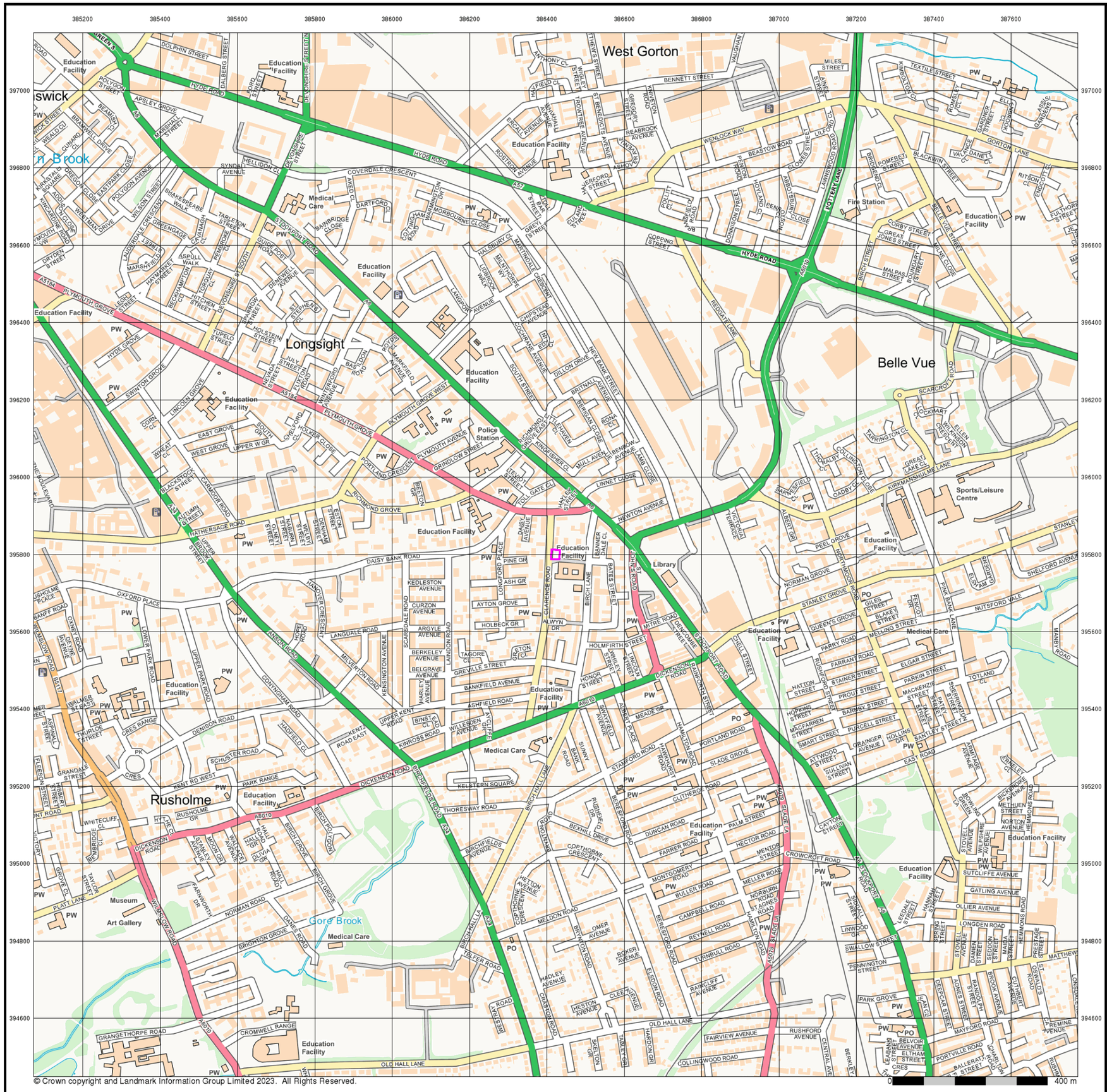
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Slice:	A
Site Area (Ha):	0.06
Search Buffer (m):	1000

Site Details

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Street View

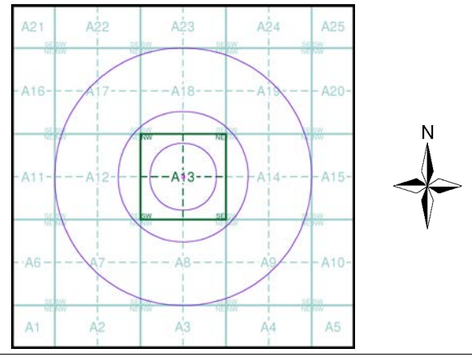
Published 2023

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice A



Order Details

Order Number:	306377960_1_1
Customer Ref:	ES270123
National Grid Reference:	386420, 395800
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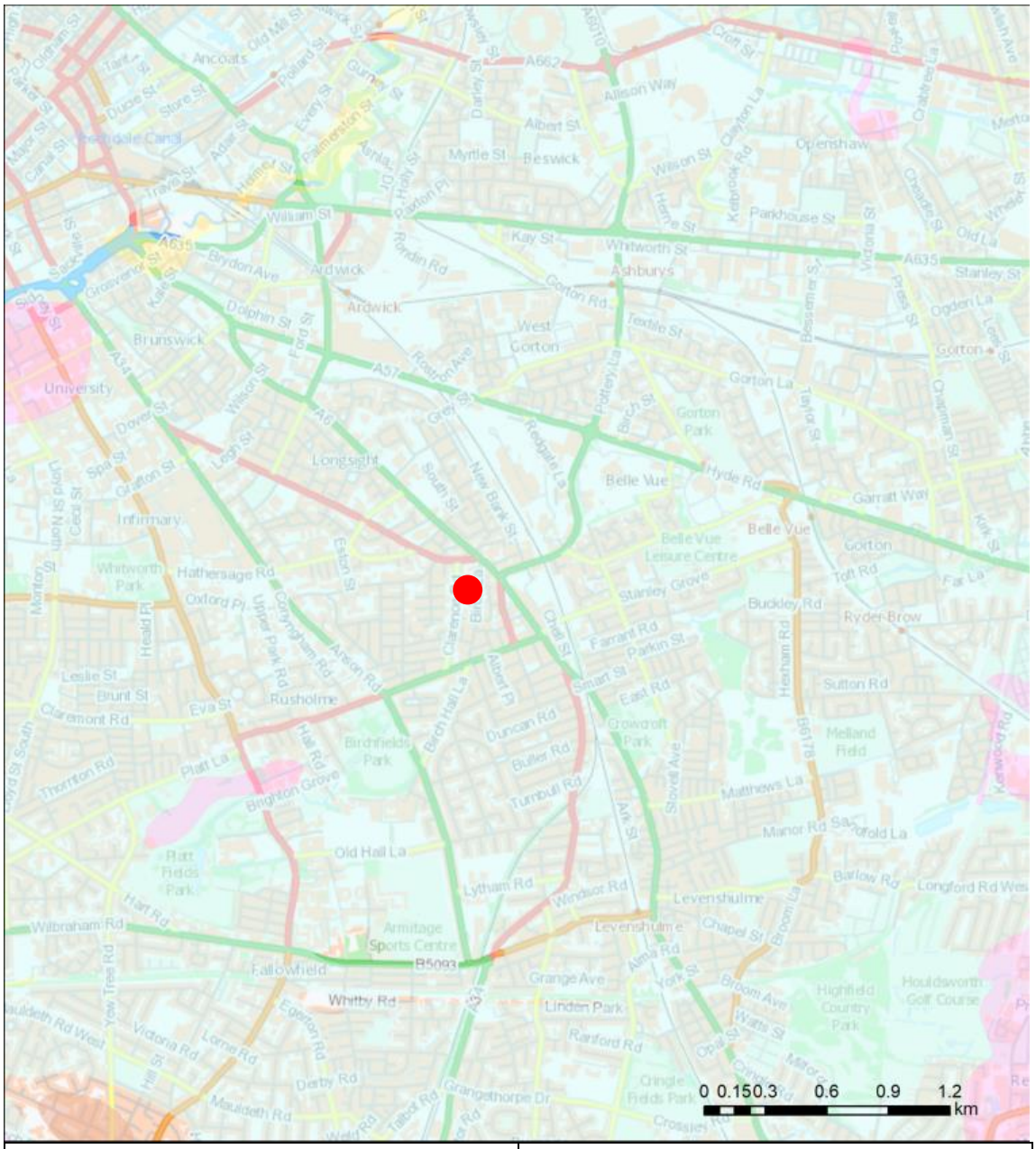
Site Details

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Appendix D – Geological Maps

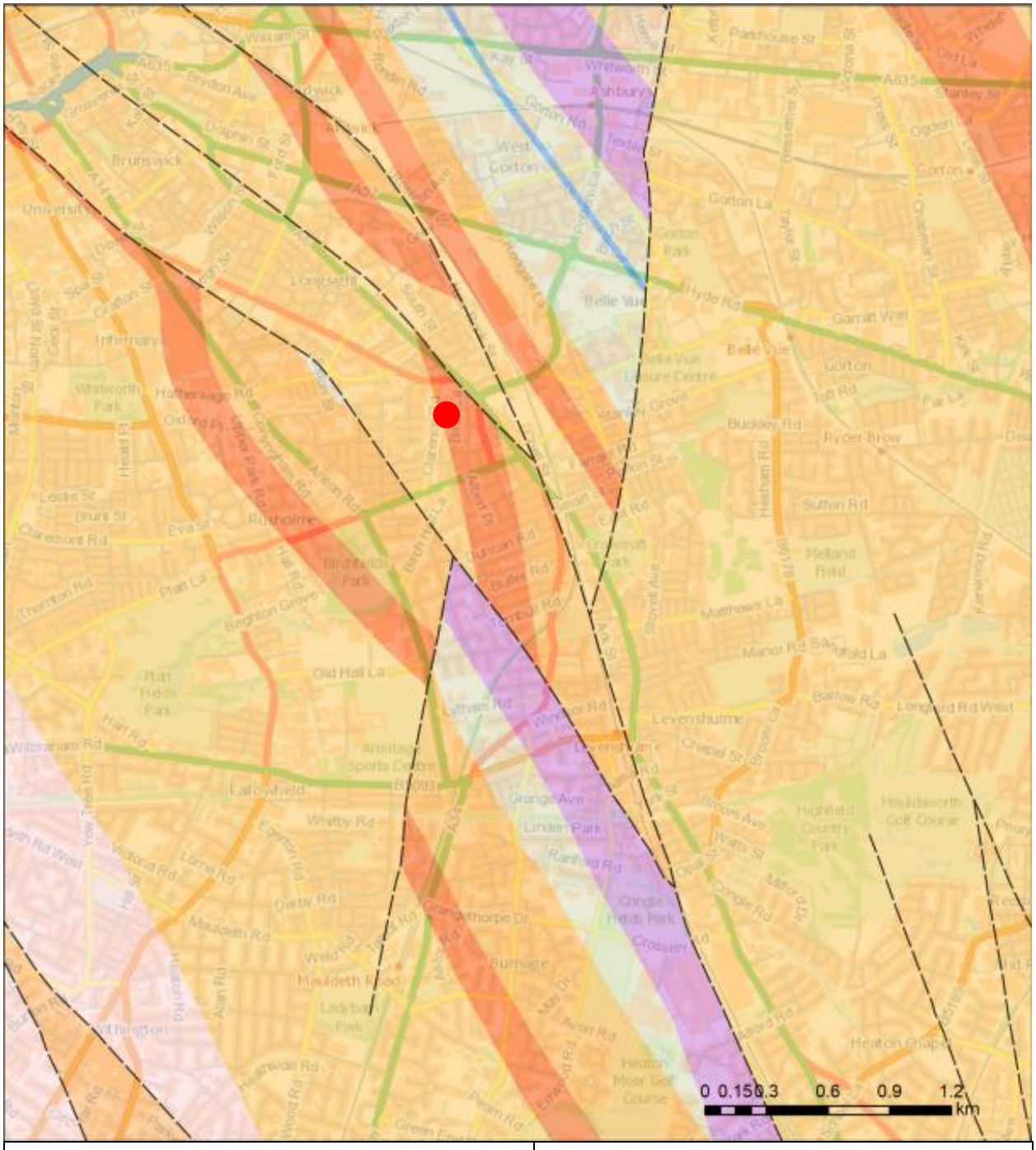


enviro | solution	**Superficial Geology**

Superficial deposits 1:50,000 scale



enviro | solution	**Superficial Geology Key**



enviro | solution	**Bedrock Geology**

Bedrock geology 1:50,000 scale

- GREAT MINE LIMESTONE - LIMESTONE
- WILMSLOW SANDSTONE FORMATION - SANDSTONE
- PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE
- ETRURIA FORMATION - SANDSTONE AND MUDSTONE
- HALESOWEN FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE
- TARPORLEY SILTSTONE FORMATION - SILTSTONE, MUDSTONE AND SANDSTONE
- PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE
- PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE
- CHESTER FORMATION - SANDSTONE
- CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)
- COLLYHURST SANDSTONE FORMATION - SANDSTONE
- BLENFIRE ROCK - SANDSTONE
- NEWTON HEATH SANDSTONE - SANDSTONE
- HELSBY SANDSTONE FORMATION - SANDSTONE, PEBBLY (GRAVELLY)
- MANCHESTER MARLS FORMATION - MUDSTONE
- HOLT TOWN SANDSTONE BED - SANDSTONE

Linear features 1:50,000 scale

- Buried_channel_Margin
- Coal_seam_Inf
- Fault_Inf_Crossmark_on_downthrow_side
- Marine_band

enviro | solution	**Bedrock Geology Key**

Appendix E – BGS Borehole

STRATA SURVEYS LTD., 8643 9581
HOLMES CHAPEL ROAD,
MIDDLEWICH, CHESHIRE. CW10 0JB
Telephone: 0606 84 4637 Fax: 0606 84 6657

SJ89NE
916

Borehole Number : H-A-2
Sheet 1 of 1.
Depth 0 to 10 metres
Dates : 6/11/88

Job Number : 4593 Location : Clarence Road, Longsight.
Client : Northern British Housing Assc.

Dia. & Drilling Methods
Hand Auger

Description of Strata	Red. Level	Legend	Thick -ness	Depth m	Sample Depths	Sample Types	N Value	Cu	ø	Water Level	Pie -zo	Daily Prog.
Brick rubble; MADE GROUND	99.72		(0.50)	0.00								
Firm/ stiff black clay with some ash; MADE GROUND	99.22		(0.60)	0.50	0.60	D 1						
Stiff brown grey silty slightly sandy gravelly CLAY (Boulder Clay)	98.62		(0.90)	1.10	1.50	D 2						
Borehole Completed	97.72			2.00								6/11

Key :

Sample Types
U Undisturbed
D Disturbed
B Bulk Disturbed
W Water
P Piston
S SPT

In-Situ Tests
N N Value
+ Sampler Sank

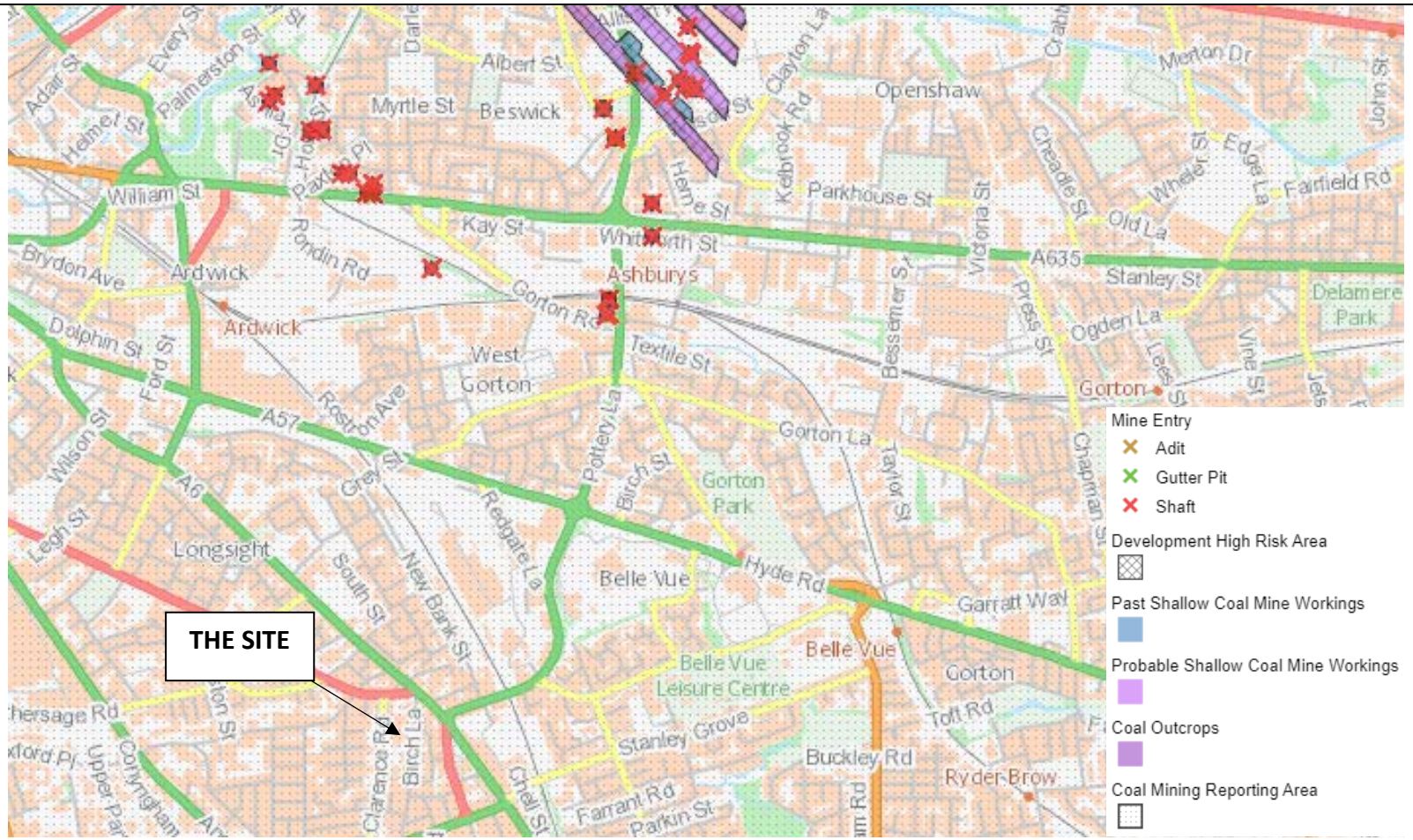
Progress / Water Levels
Borehole Depth
Casing Depth
Water Level
Water Strike

Piezometer Level

General Remarks :
No water encountered during boring.

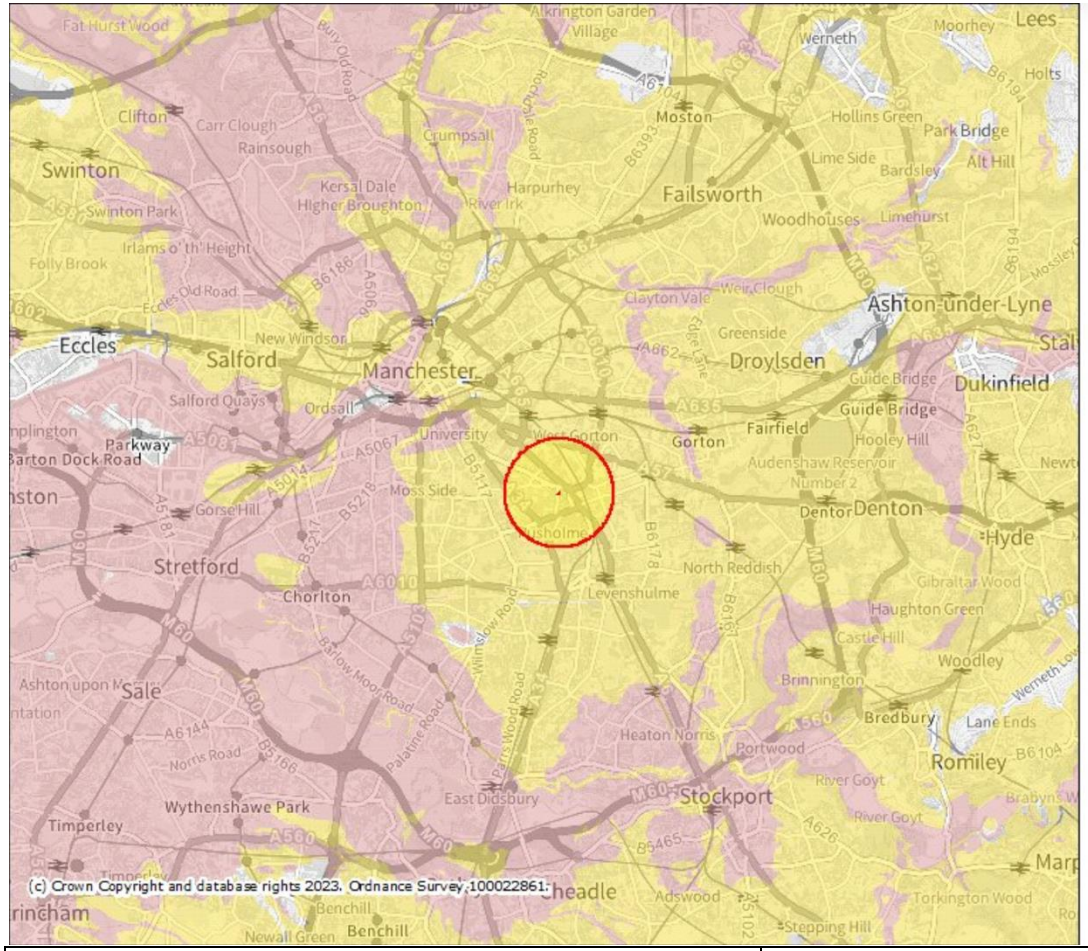
British Geological Survey

Appendix F – Coal Mining Summary Map

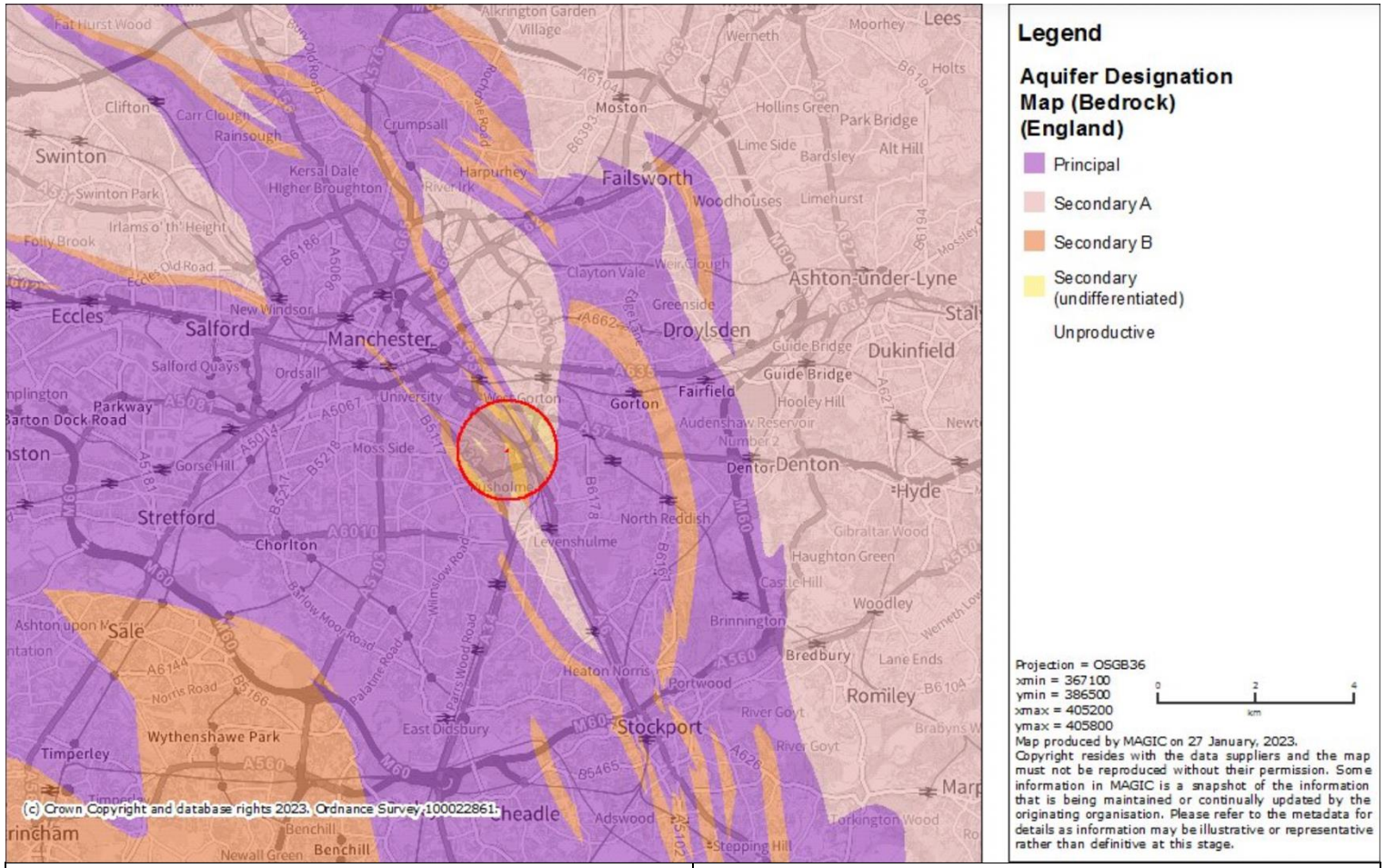


enviro | solution	**Coal Authority Interactive Viewer Map**

Appendix G – Hydrogeological Maps

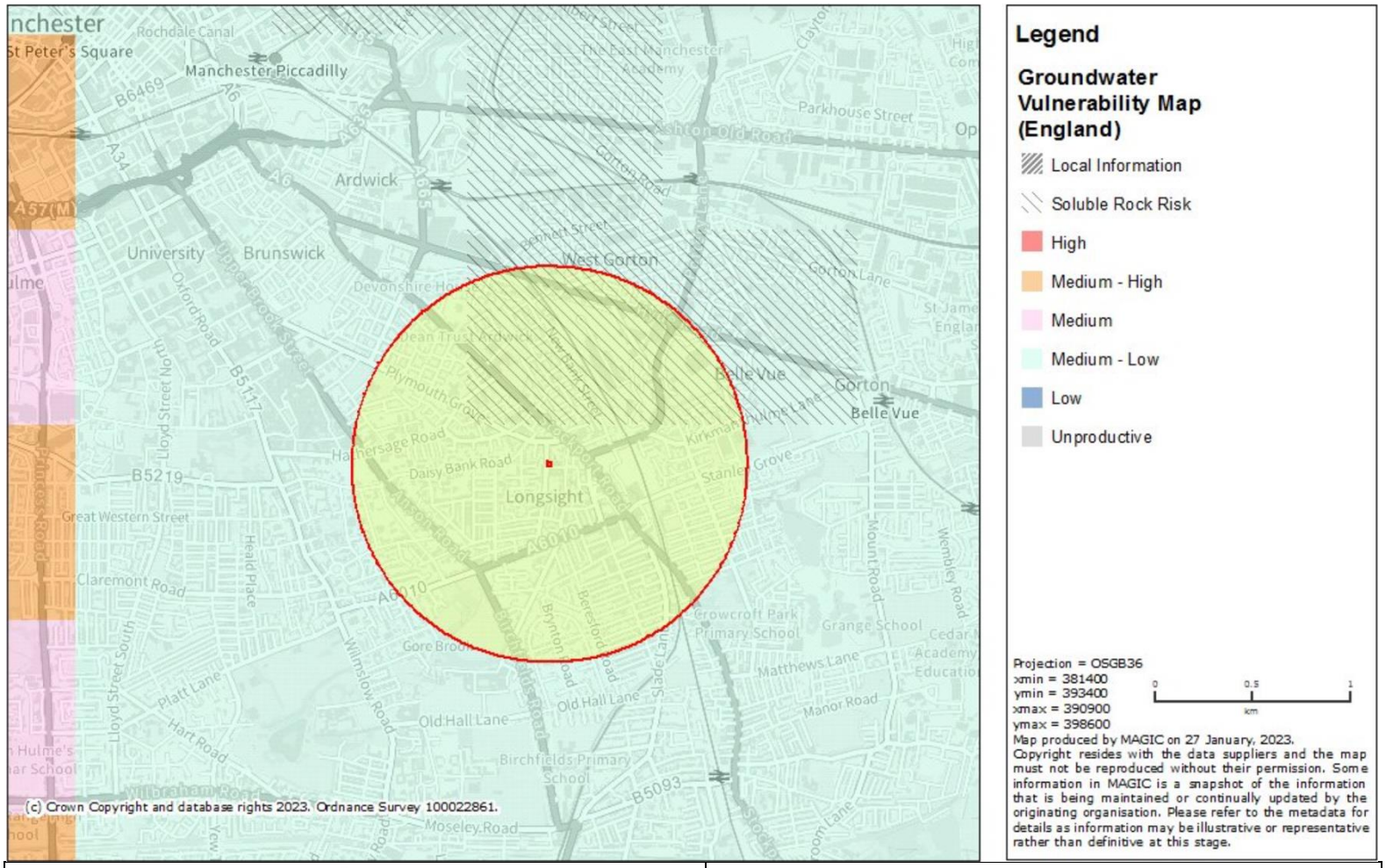


enviro | solution	**Superficial Aquifer**

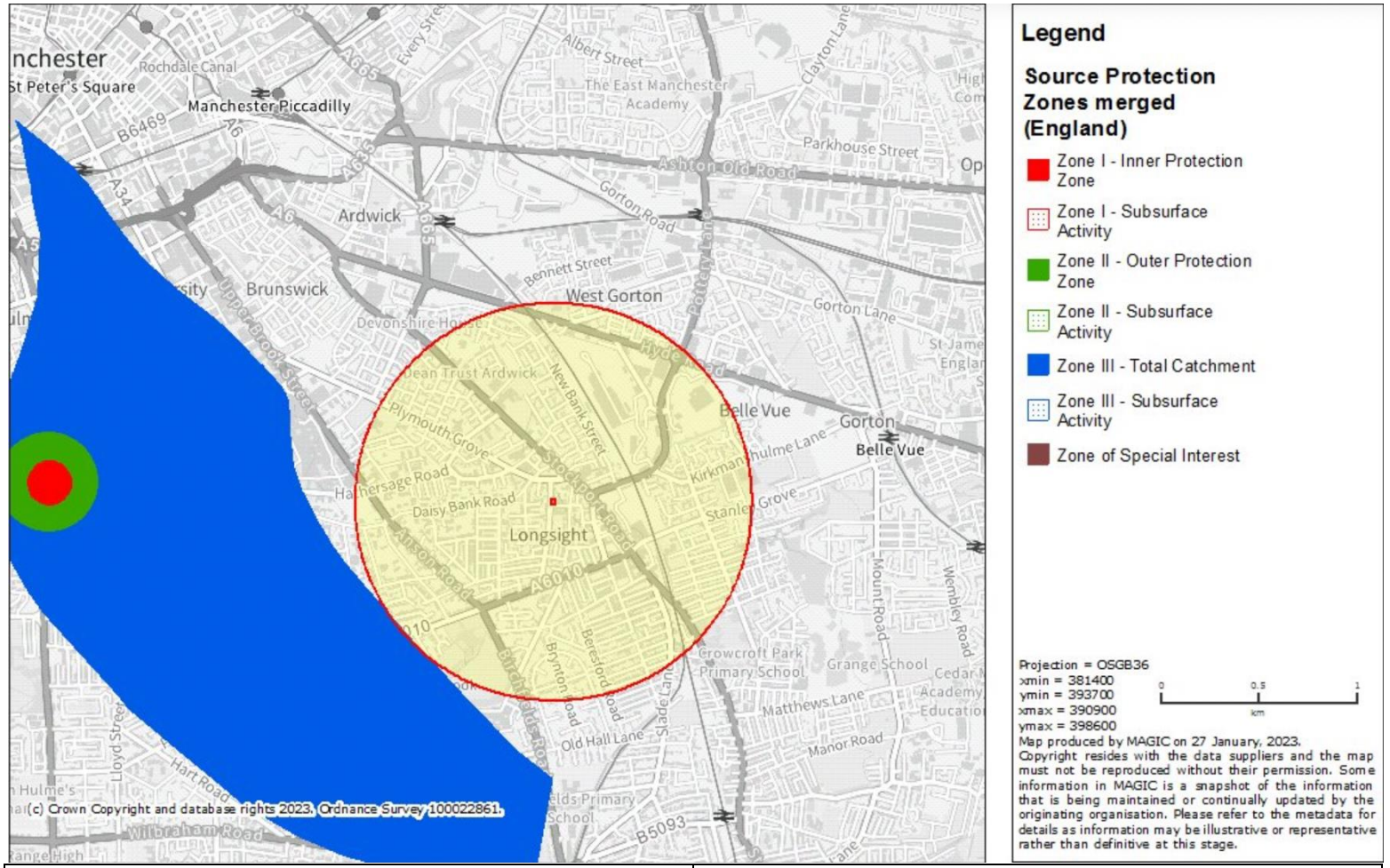


enviro | solution

Bedrock Aquifer

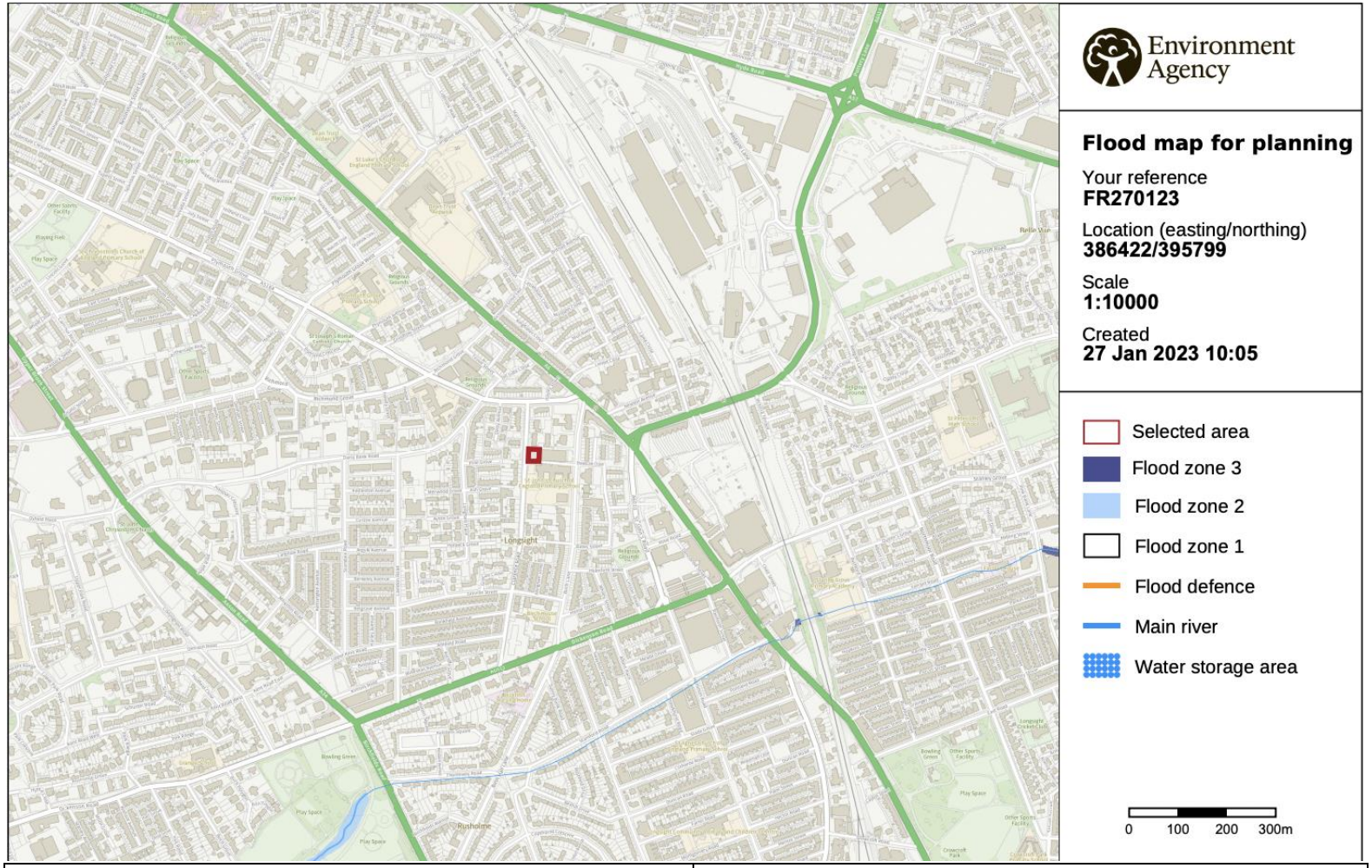


enviro | solution	**Groundwater Vulnerability**



enviro | solution	**Source Protection Zones (merged) 250mSW**

Appendix H – Flood Risk Map



enviro | solution	**Flood Risk Map**