

APPENDIX E

SYMAS REPORT

PLACE DIRECTORATE
South Yorkshire Mining Advisory Service



To: Development Management

FAO: Hannah Andrew

My Ref: 2020/ENQ/00317

Your Ref: 2020/ENQ/00317

Date: 17th June 2020

Enquiries to: Mr. P. James

Ext:

Subject: Proposed Commercial Development (B1, B2, and B8 uses)
Land at the former Houghton Main Colliery
Little Houghton
Barnsley

Further to your consultation request of the 8th of June 2020 I have the following comments.

The site is located within a coal mining high risk referral area due to the presence of former opencast coal sites, associated backfill and highwalls as well as abandoned mine entries located within and adjacent to the site.

However, in principle it is considered that the site can be made suitable for the proposed development.

The applicant should commission a Geo-environmental desk top study report to accompany the planning application. The study should make suitable recommendations for ground investigation, remediation and/or stabilisation to ensure the safe and sustainable development of the site in consideration of NPPF sections 178 a,b,c. 179 and 170 e & f.

Principal Mining Engineer.



Date: 7th March, 2008

Enquiries to: Mr. I. Johnson

Dial Direct: 01226 772690

My Ref: U/M461/6

Your Ref:

Principal Mining Engineer
Barnsley Metropolitan Borough Council
PO Box 604
Barnsley S70 9FE

White Young Green Environmental Ltd.,
1, Armdale Court,
Headingley,
LEEDS.
LS6 2UJ

FOR THE ATTENTION OF ANNETTE LAVER

Dear Sir,

LITTLE HOUGHTON DEVELOPMENT

Further to your consultation request of 4th March, 2008; please find enclosed a mineral report and plans which outline the mining and geological situation for the above site at Little Houghton.

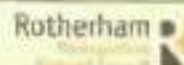
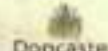
I can also confirm that an invoice will be submitted in due course for the agreed fee of five hours @ £45 per hour +VAT.

Yours faithfully,

P. James,
Principal Mining Engineer.

Enc.

Tel: (01226) 772689
Fax: (01226) 772688
E-mail: symas@barnsley.gov.uk
Website: www.barnsley.gov.uk/symas



MINERAL REPORT



Date:

My Ref: 7th March, 2008

U/M461/6
CONFIDENTIAL

HOUGHTON MAIN COLLIERY SITE, LITTLE HOUGHTON PROPOSED REDEVELOPMENT

PROPOSALS

It is intended to develop the southern end of the disused colliery site, which comprises part of the former pit yard and railway sidings covering the area edged orange on the accompanying 1/2500 scale plan no. M461/6A. The cleared area formed part of the former Houghton Main Opencast Site.

GEOLOGICAL INFORMATION

Records indicate that the site lies on sandstone, shales and mudstones of the Middle Coal Measures Series with the Shafton Coal Seam outcropping along the western boundary as indicated in red on the attached plan no M461/6B.

The conjectured surface position of a geological fault is shown to surface to the south-east of the site, with a small fault also surfacing through the south-east corner of the site as shown in blue on the plan.

MINING INFORMATION

Houghton Main Colliery Shafts were sunk some 730 m deep to the Thorncliffe Coal, during 1922/1923, the colliery closed in August, 1993.

The three mineshafts associated with the colliery are thought to have been filled and capped shortly afterwards, to British Coal specifications.

Records held by SYMAS indicate that Shaft No. 3 is filled from a mid-shaft plug inserted at 234.8 m, and it is likely that the two other deep shafts were similarly treated.

Shallow Mining

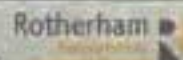
The Shafton Coal Seam outcrops along the western boundary as indicated on the attached plan no M461/6B. Although there are no recorded workings in this seam within the area under review a mine adit was discovered in 1975 as indicated on the plan no. M461/6M which would indicate that some extraction of the Shafton Seam had taken place.

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Website: www.barnsley.gov.uk/symas



MINERAL REPORT



Continuation Sheet 2

Deep Mining

The area has been affected by mining in eight seams ranging in depth from the Meltonfield Coal Seam at 316 m down to the Silkstone Coal Seam at 790 m deep; subsidence resulting at the surface from these workings will have been complete for over 20 years.

These workings are shown on the attached plan nos. M461/6D to M461/6L.

Opencast Coal

The Houghton Main Opencast Site commenced in 1997 to extract the Shafton Coal Seam beneath the site as indicated on plan no. M461/6C, with the opencast section shown on plan no. M461/6P.

The site was completed in 2000 with the opencast backfill being compacted during restoration to provide a development platform.

The three deep Houghton Main Shafts were uncovered and the caps removed during the works, new caps being installed at the base of the opencast void, approximately 11 m deep, prior to backfilling.

MINESHAFTS/ ADITS

The records held by SYMAS indicate that a mine adit to the Shafton Coal Seam was discovered in 1975, although there are no details of how it was treated at that time it is likely that this feature was excavated out during the opencast operations.

The Opencast completion plan indicates that a small area of Shafton Coal was removed from the area of the adit.

The known details of the shafts and adit are as follows:

Houghton Main Shaft No. 1

Diameter	4.7 m
Reinforced Concrete cap	9 m dia.
Thickness	0.4 m
Level	23.0 m
Co-ords	E 441949 N406031

Houghton Main Shaft No. 2

Diameter	4.7 m
Reinforced Concrete cap	8.5 m dia.
Thickness	0.5 m
Level	21.6 m
Co-ords	E 441921 N 406014

MINERAL REPORT



Continuation Sheet 3

Houghton Main Shaft No. 3

Diameter	7 m
Reinforced Concrete cap	10 m dia.
Thickness	0.5 m
Level	21.6 m
Co-ords	E 441966.5 N 406100.5

Adit

Co-ords E 442056 N 405820

These features are shown on plan no M461/6M.

FORMER LAND USE

The area was associated with the former Houghton Main Colliery and associated activities. It is understood that all contamination associated with these activities was remediated during the opencast activities.

The past industrial development is shown on the attached plan nos. M461/6N and M461/6O.

FUGITIVE MINE GASES

There are no known issues of fugitive mine gas in the area however given the presence of the shallow mineworkings, mine entries, possible uncharted workings and opencast backfill the possibility of fugitive mine gases cannot be precluded.

It is therefore considered prudent to carry out gas monitoring prior to development and during any works on site especially in any deep excavations or confined spaces.

METHANE EXTRACTION

Greenpark Energy applied for planning permission to extract Coal Mine Methane from the former Houghton Main Colliery workings in 2005, with a subsequent generation plant being installed to the north-west of the site.

The generation unit was connected by an underground cable to a sub-station which is located adjacent to the eastern edge of the site.

This cable runs along the south-west and south-east boundary of the site.

The generation unit and sub-station are shown on plan no. M461/6M.

CONCLUSIONS AND RECOMMENDATIONS

1. The site is presently stable from the deep mining subsidence aspect and will remain so in future years.
2. There are two faults or other such geological disturbances known to affect the area concerned together with some smaller faults found in the opencast. It is understood that some coal was left in-situ due to the stability of the 'high wall' along the line of the proposed road.

MINERAL REPORT



Continuation Sheet 4

3. The three former operational mineshafts for Houghton Main Colliery were filled and capped subsequent to the closure of the colliery in late 1993.

However these shafts were excavated during the opencast operations and new caps installed at the base of the opencast void.

A mine adit discovered in 1975 is likely to have been excavated out during the opencast operations.

This should be checked with UK Coal.

4. Following the opencast operations the backfill was compacted to provide a development platform for both industrial development and the proposed A6195, Park Spring Road.

5. The possibilities of no building zones along the opencast high wall and over disused mine entries is considered good building practices to avoid differential settlement.

It is understood from an adjacent development that UK Coal were to impose exclusion zones over high walls and mine entries which may include areas within the site.

This should be checked with UK Coal.

6. There are no known instances of mine gas issues in the area, however, considering the possible shallow mining, opencast backfill, etc, the possibility of fugitive mine gas cannot be ruled out.

It is therefore recommended that the requisite monitoring procedures are carried out in any open excavations or confined spaces.

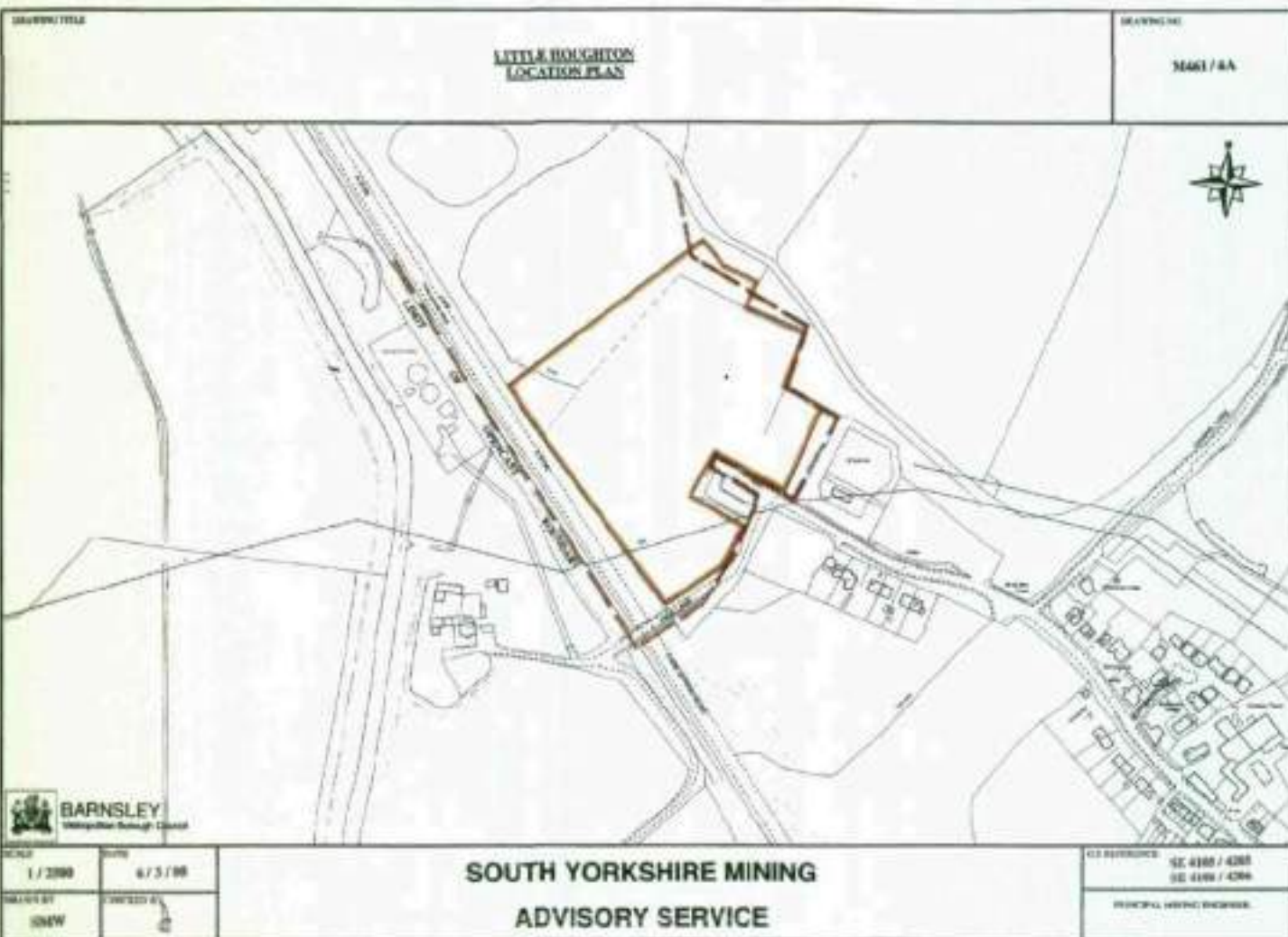
THIS REPORT IS BASED ON AND LIMITED TO THE RECORDS IN THE POSSESSION OF SYMAS AT THE TIME THE ENQUIRY IS ANSWERED.

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This report was prepared by Ian Johnson on 7th March, 2008.

A handwritten signature in black ink, appearing to read "P. James", is located above the printed name.

P. James,
Principal Mining Engineer.



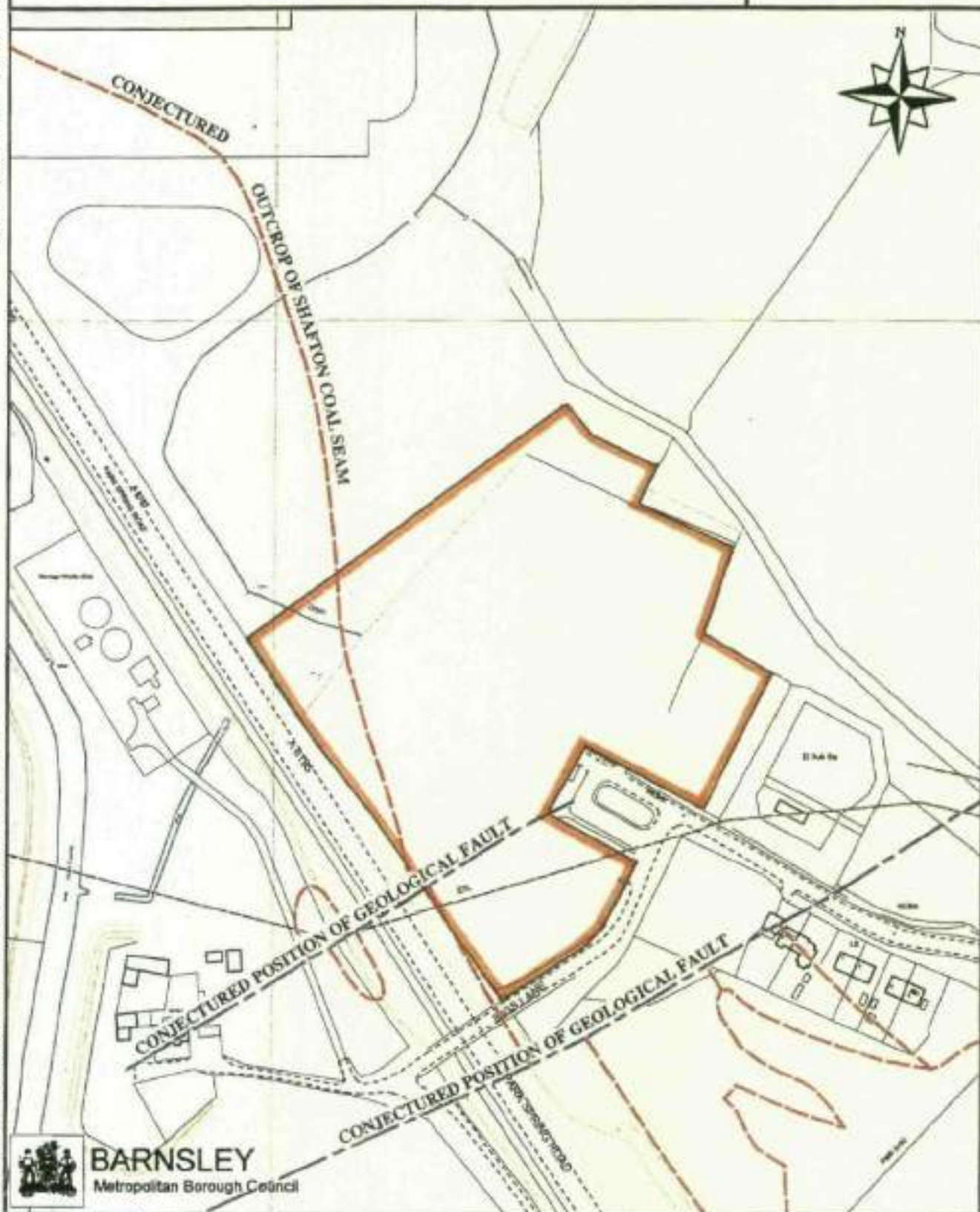
DRAWING TITLE

LITTLE HOUGHTON GEOLOGICAL INFORMATION

DRAWING NO.

M461 / 6B

BMBC Licence Number 100022284 2008



BARNSELEY
Metropolitan Borough Council

SCALE

1 / 2500

DATE

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O.S. REFERENCE

SE 4105 / 4205

SE 4106 / 4206

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SMW

CHECKED BY

PRINCIPAL MINING ENGINEER

PLANARY FILE

**BOUGHTON MAIN OPENCAST SITE
LITTLE BOUGHTON**

PROVISIONAL

58461 / MC



BARNSELEY
Metropolitan Borough Council

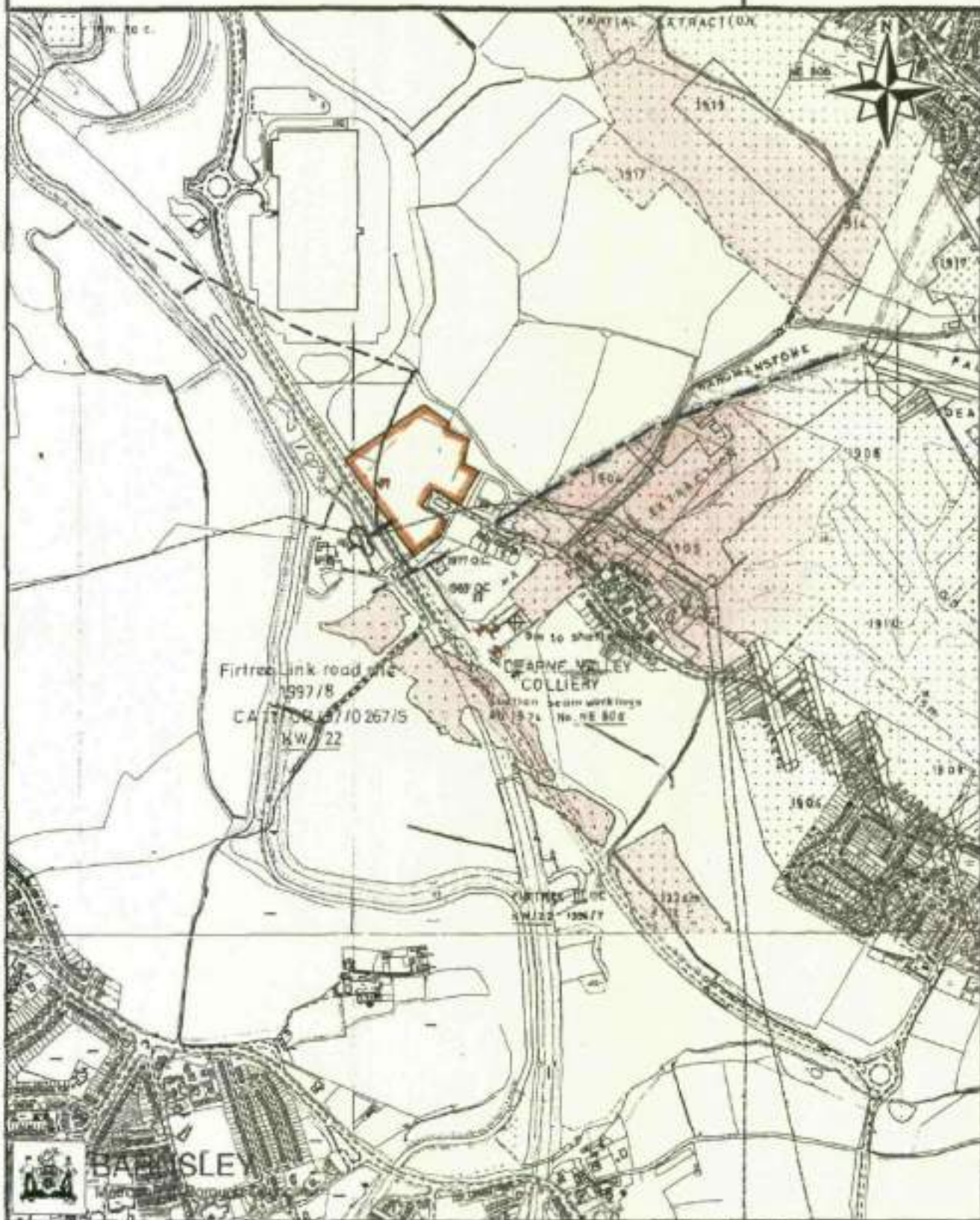
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PRODUCTION, PRINTING, LITHOGRAPHY	

DRAWING NO.

M461 / 6D

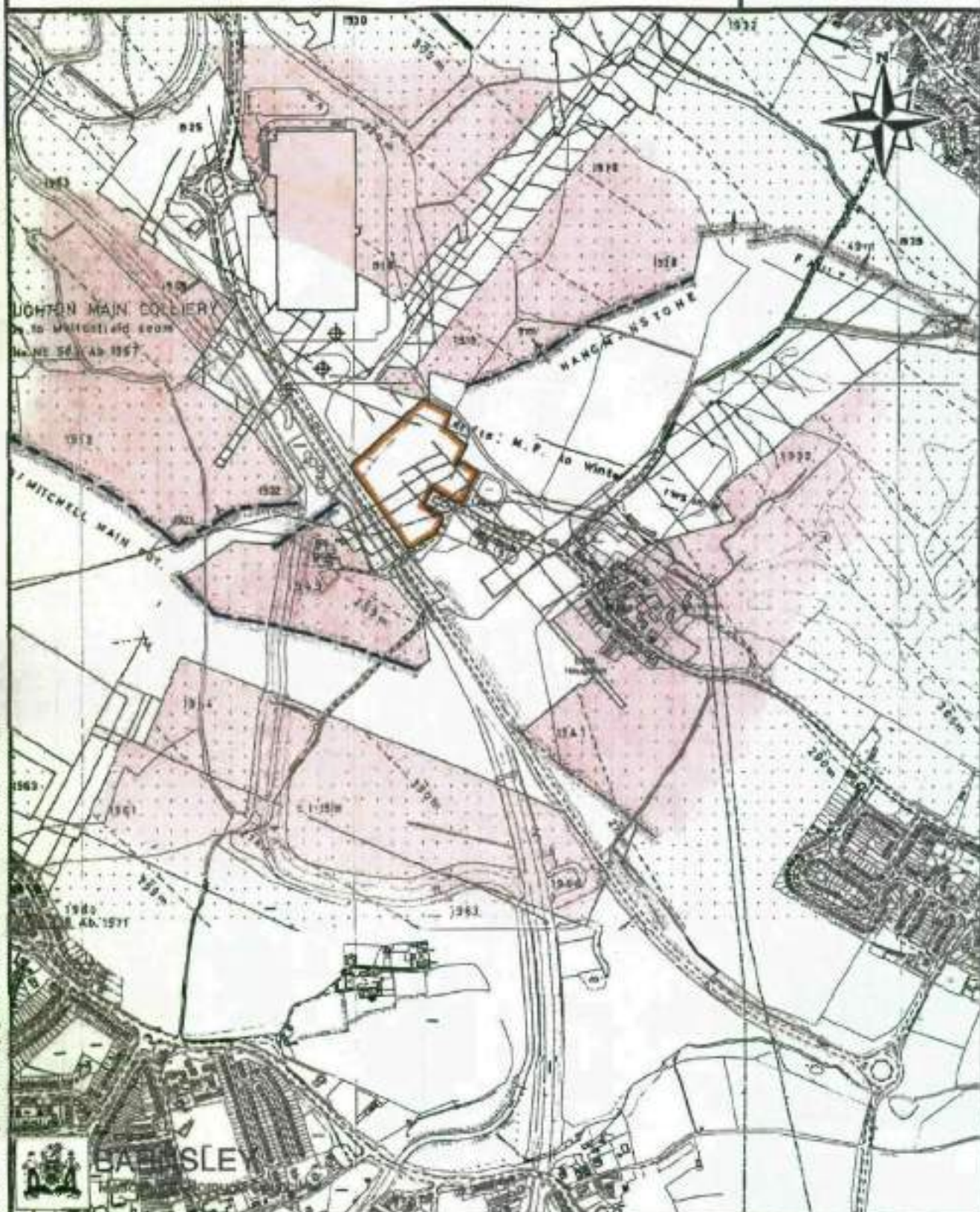


PRINCIPAL MINING ENGINEER

DRAWING TITLE

DRAWING NO.

LITTLE HOUGHTON **MELTONFIELD COAL SEAM WORKINGS**

M461 / 6E

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SMW	

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SE 40 NW
PRINCIPAL MINING ENGINEER

DRAWING TITLE

LITTLE HOUGHTON
WINTER COAL SEAM WORKINGS

DRAWING NO.

M461 / 6F



SCALE
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DATE
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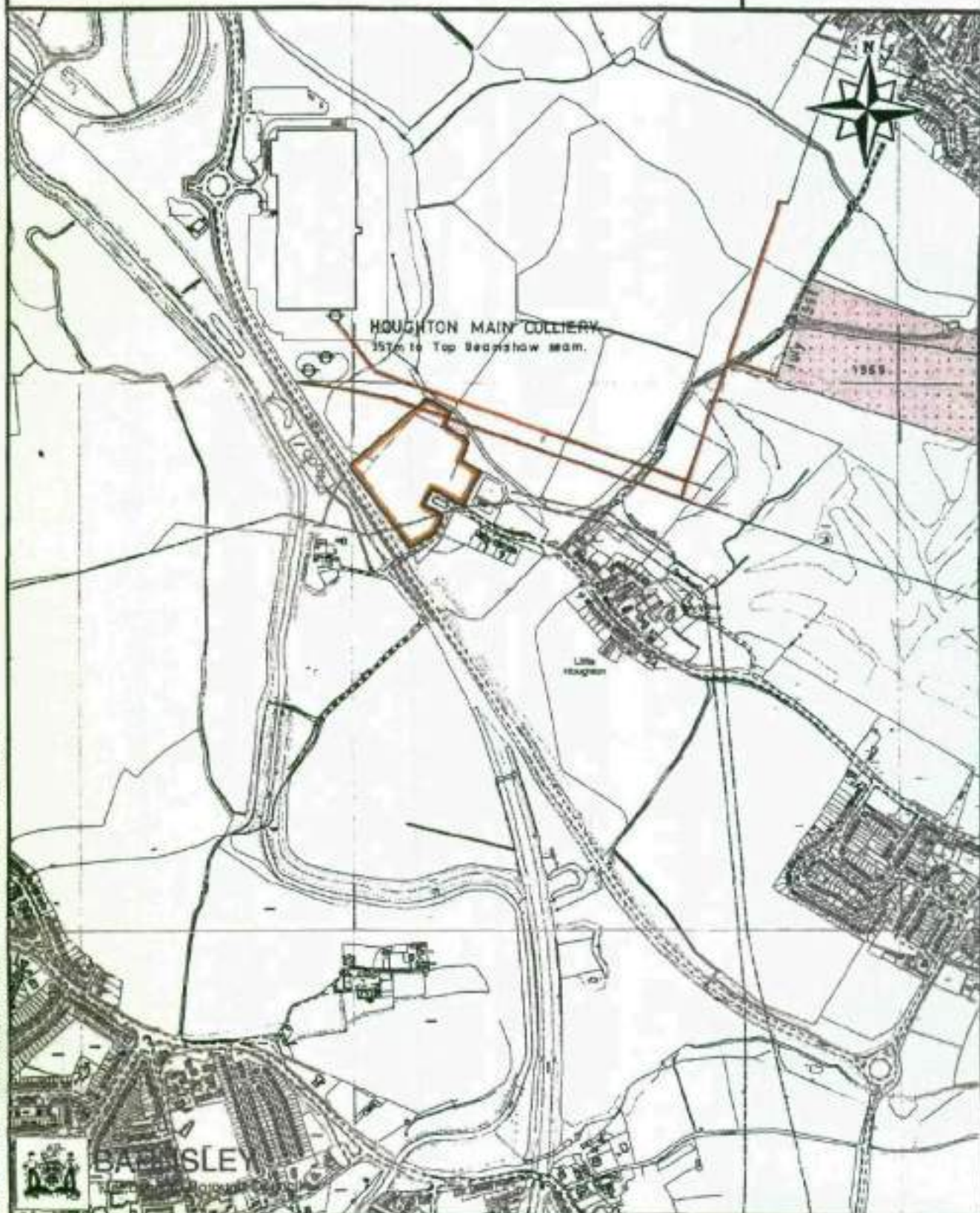
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LITTLE HOUGHTON
TOP BEAMSHAW COAL SEAM WORKINGS

M461 / 6G

BMBC Licence Number 100022254 2008

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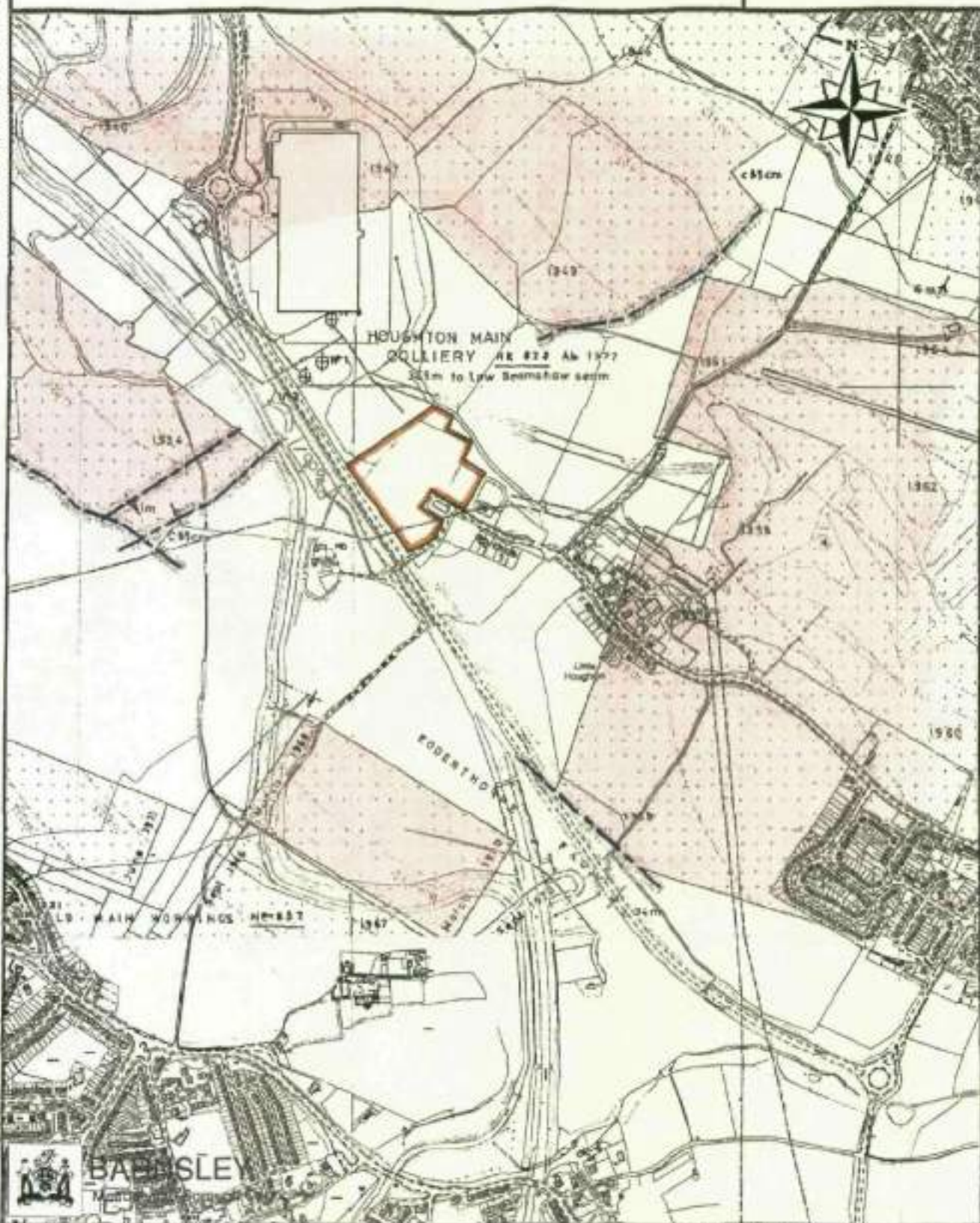
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LITTLE HOUGHTON
LOW BEAMSHAW COAL SEAM WORKINGS

M461 / 6H



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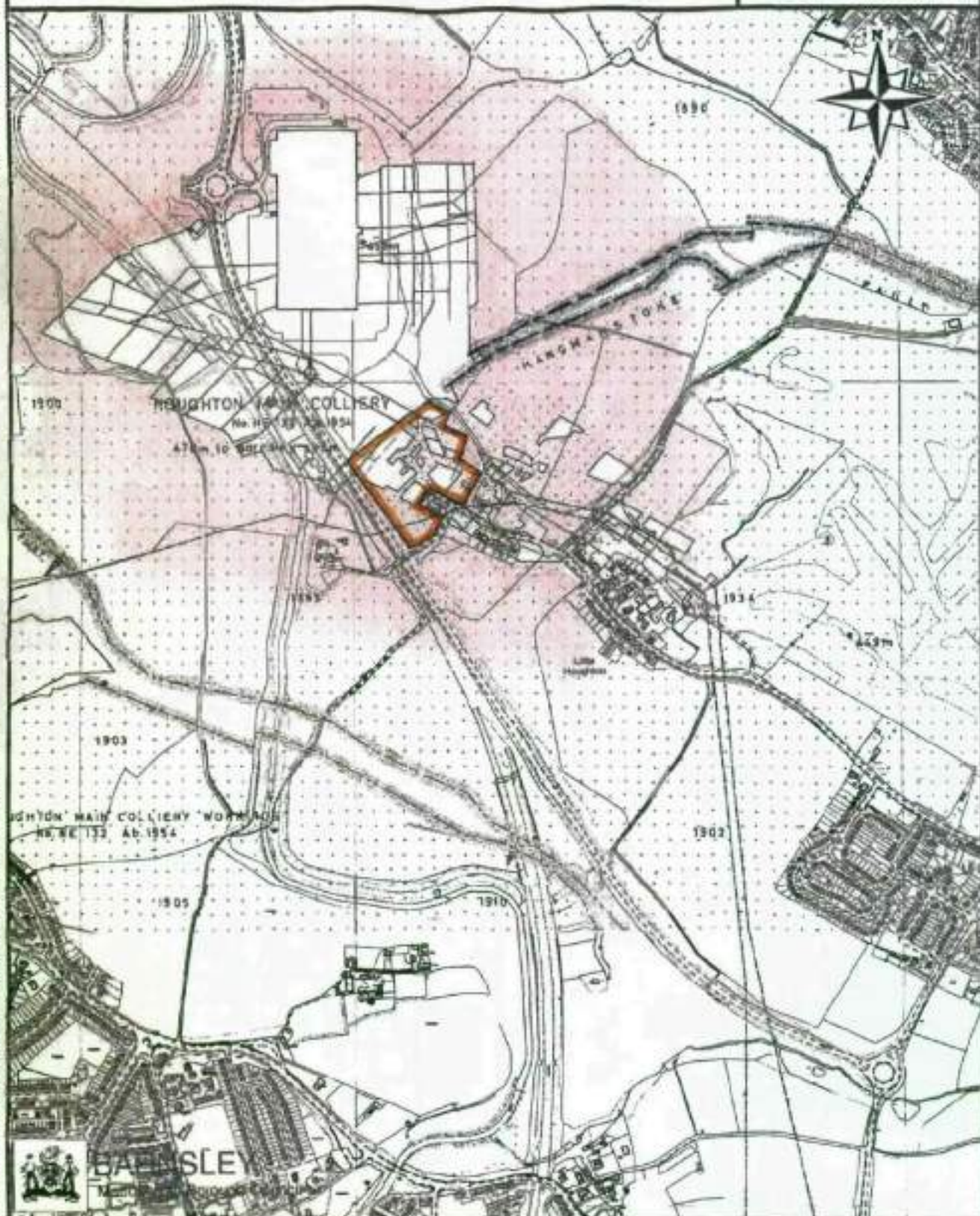
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LITTLE HOUGHTON BARNSELY COAL SEAM WORKINGS

M461 / 61



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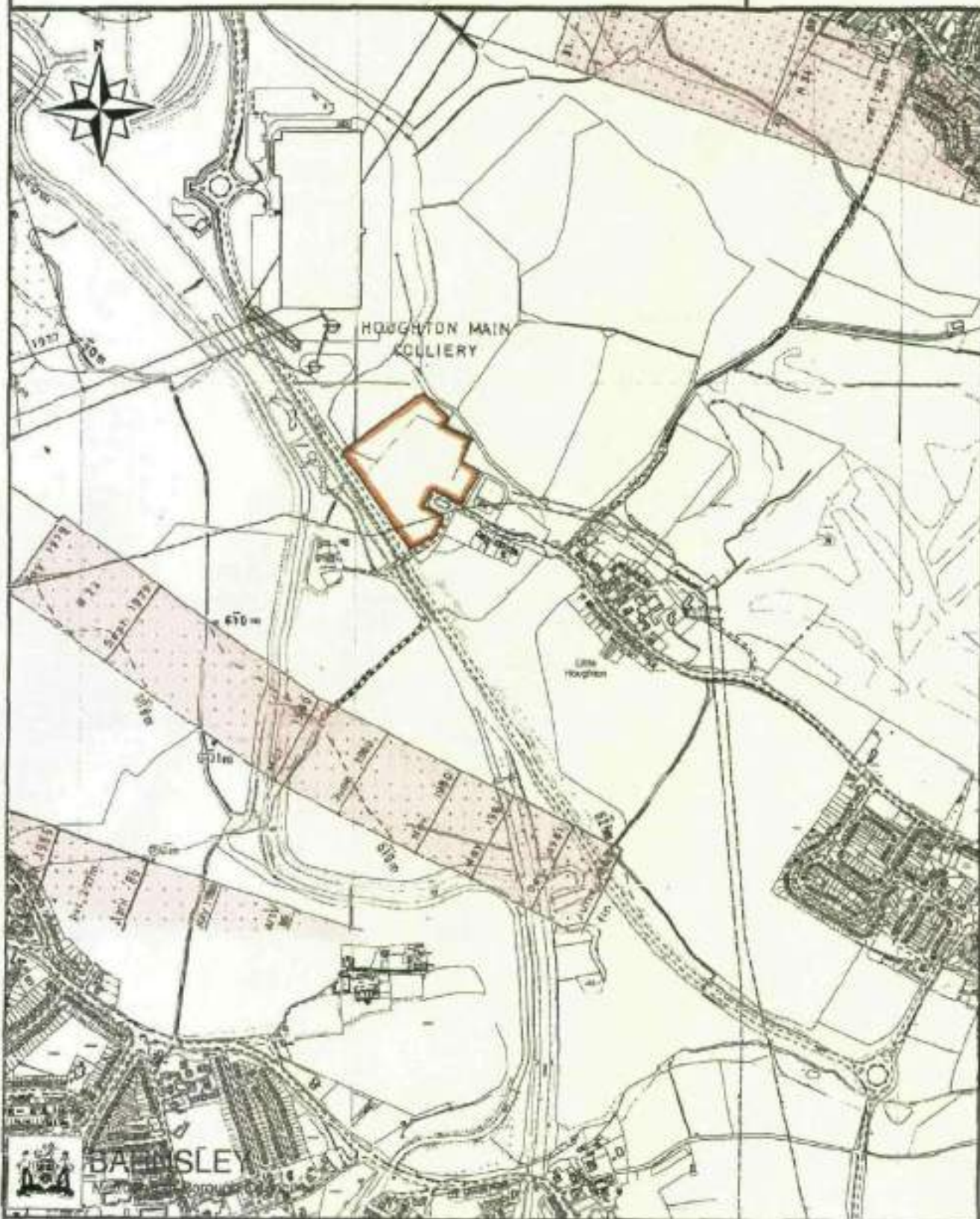
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LITTLE HOUGHTON
FENTON COAL SEAM WORKINGS

M461 / 6J

BMBC Licence Number 100022264 2008



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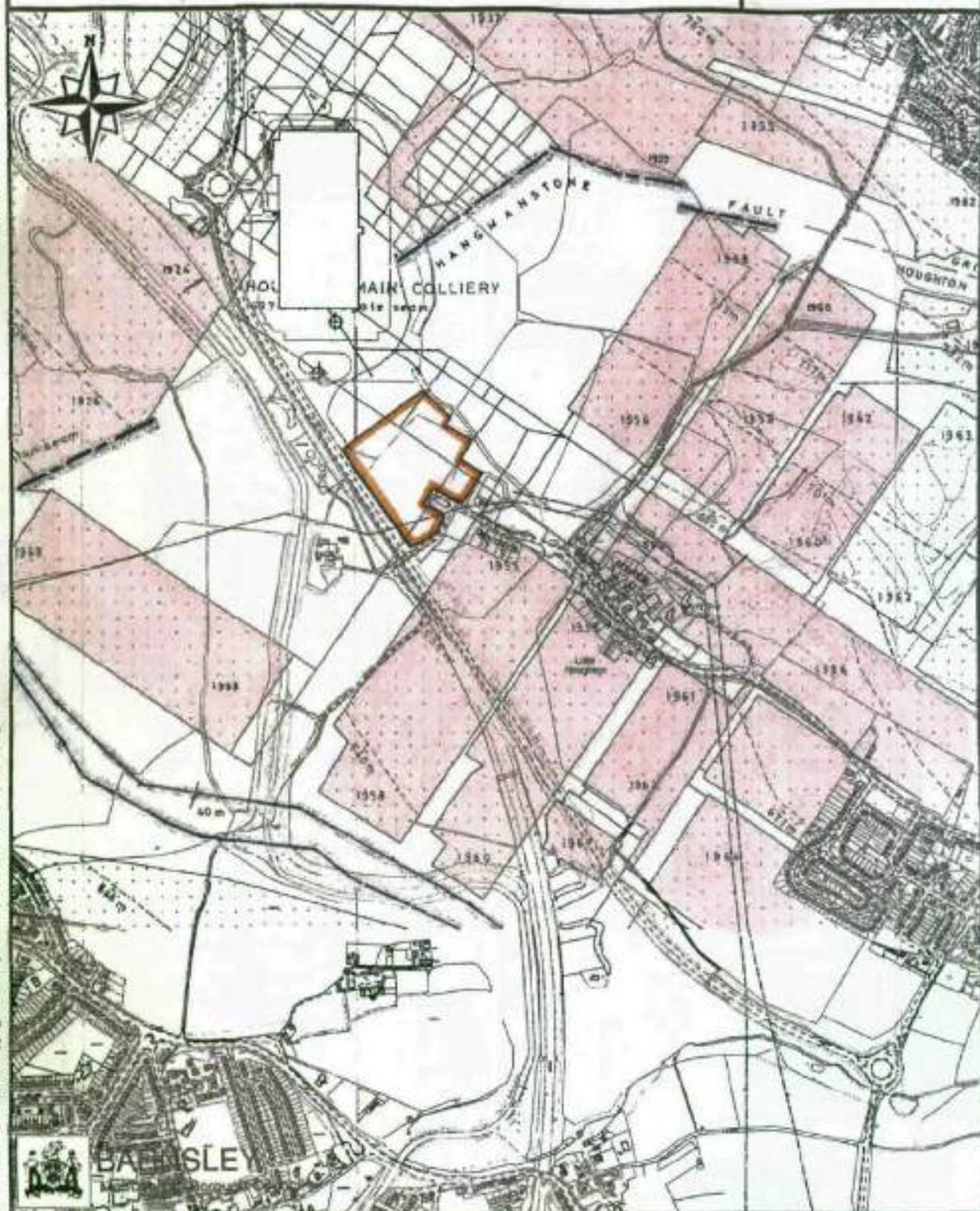
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DRAWING NO.

LITTLE HOUGHTON
PARKGATE COAL SEAM WORKINGS

M461 / 6K



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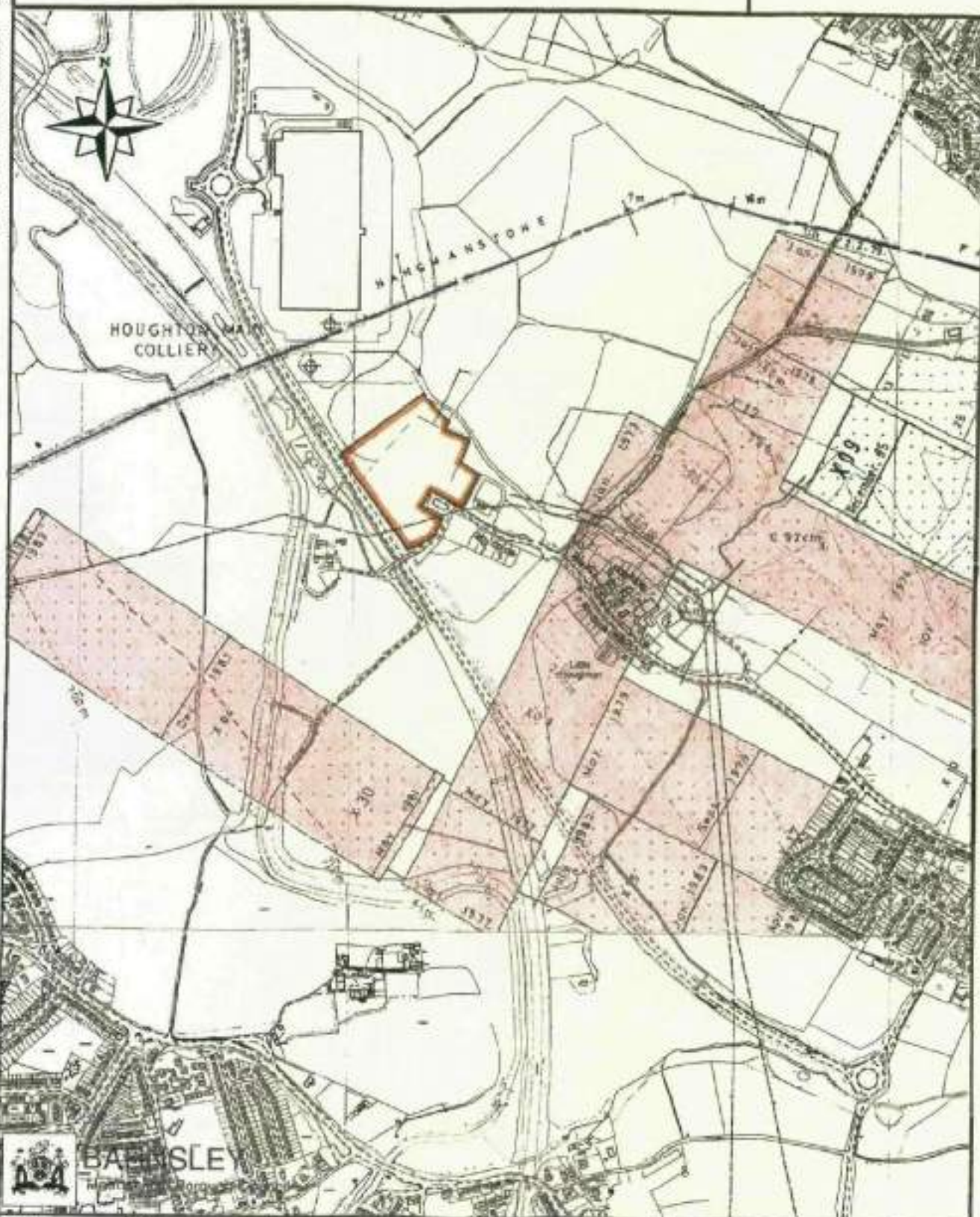
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LITTLE HOUGHTON
SILKSTONE COAL SEAM WORKINGS

M461 / 6L

BMBC Licence Number 100022284 2008



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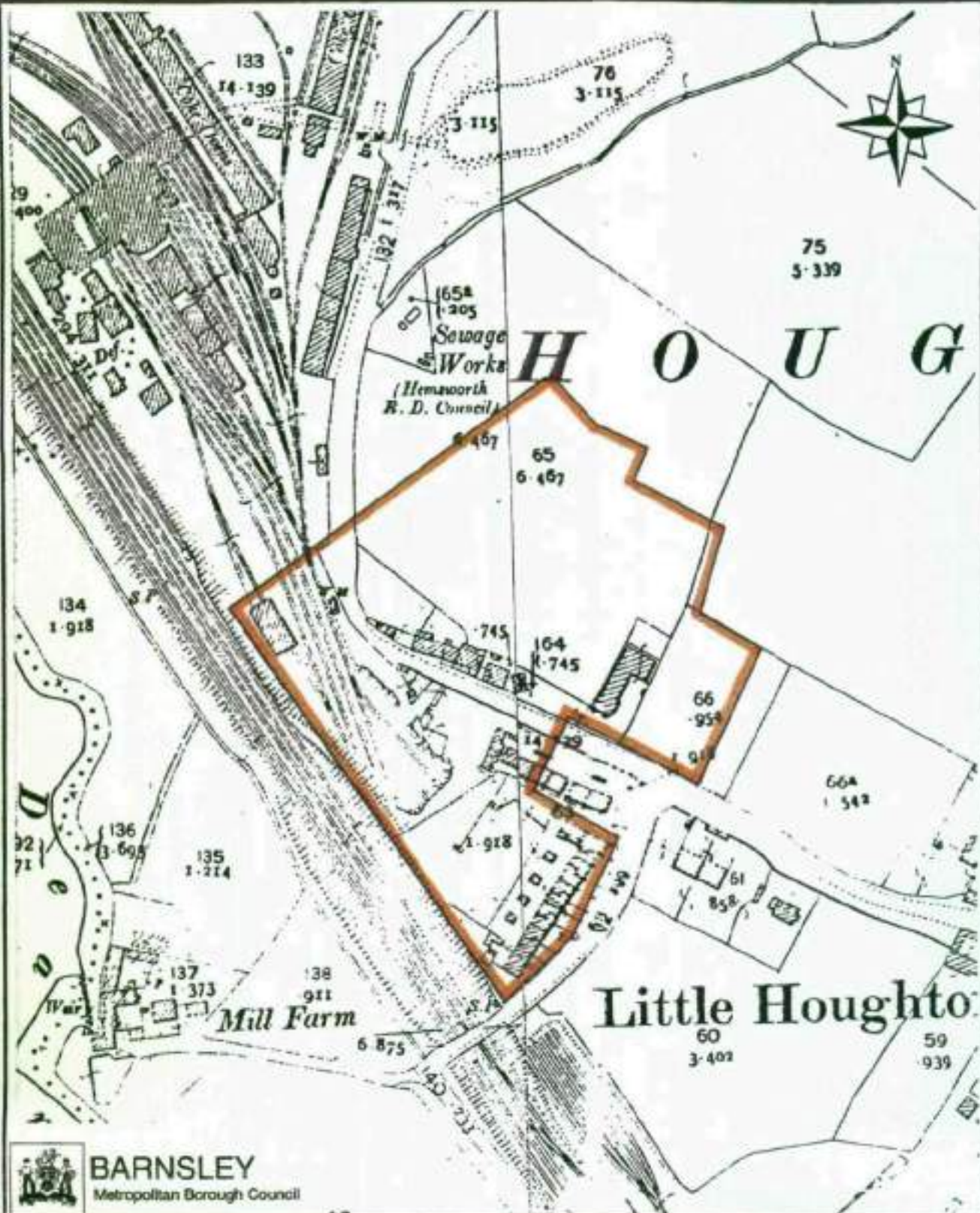
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LITTLE HOUGHTON
1906 ORDNANCE MAP (COUNTY SERIES)

M461 / 6N



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O.S. REFERENCE

275 / 10 & 275 / 11

1906 EDITION

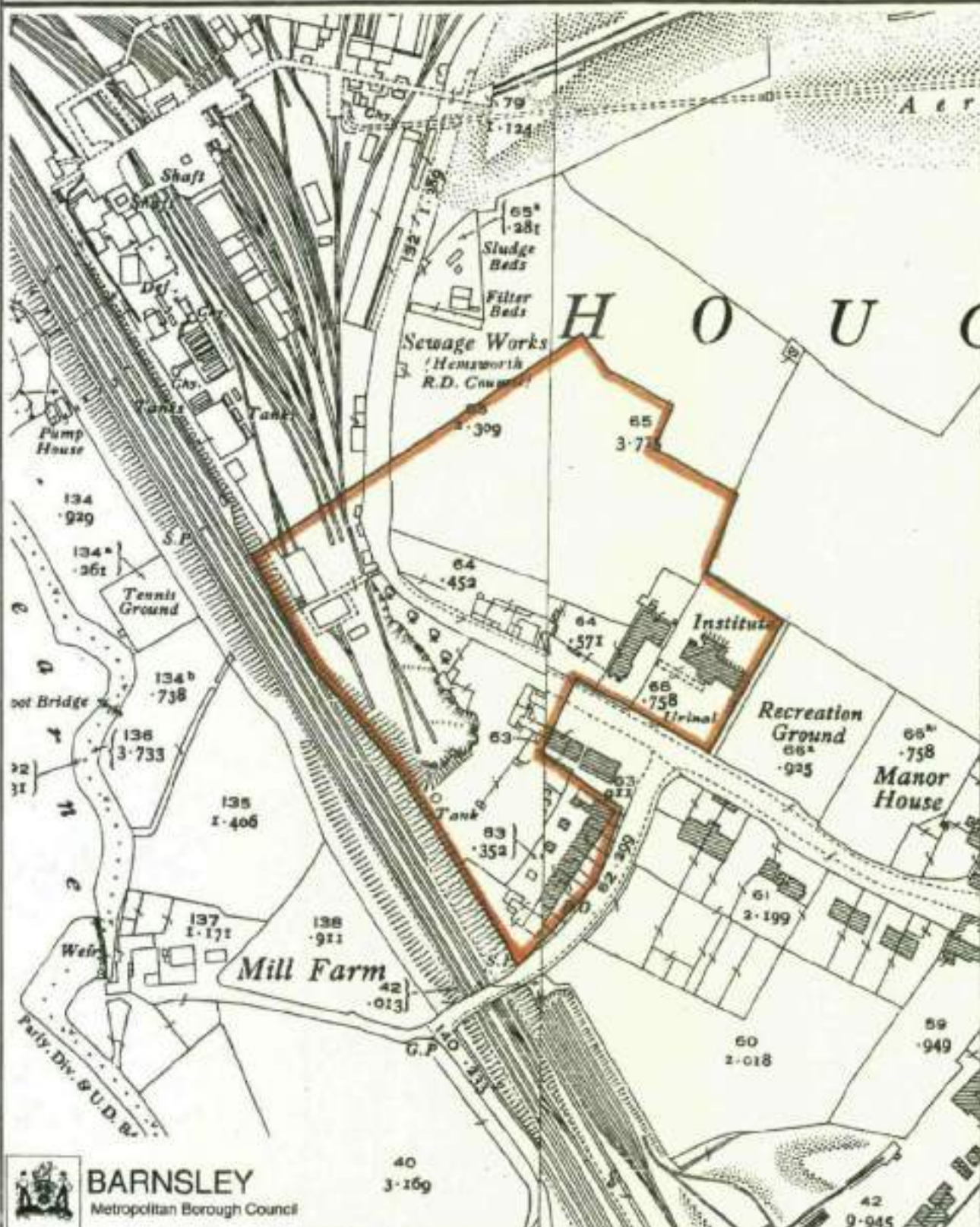
F. JAMES BSc (Hons)
 PRINCIPAL MINING ENGINEER

DRAWING TITLE

LITTLE HOUGHTON 1931 ORDNANCE MAP

DRAWING NO.

M461 / 60



BARNSLEY
Metropolitan Borough Council

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DATE

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ADVISORY SERVICE

O.S. REFERENCE 275 / 10 & 275 / 11
1931 EDITION

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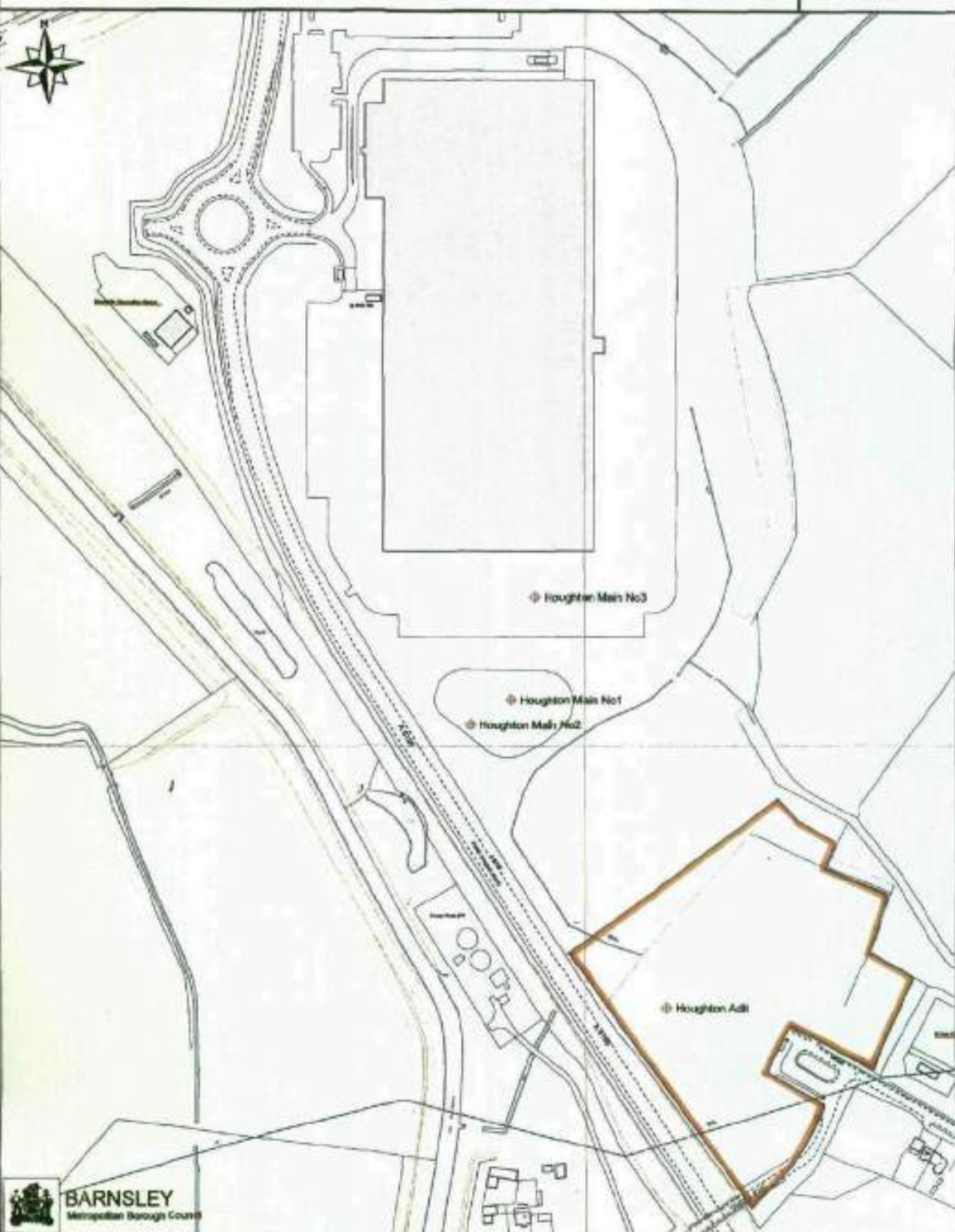
P. JAMES BSc (Hons)
PRINCIPAL MINING ENGINEER

DRAWING TITLE

LITTLE HOUGHTON SHAFT LOCATIONS

DRAWING NO.

M461 / 6M



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Metropolitan Borough Council

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SE 4105 / 4206

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DRAWING TITLE

LITTLE HOUGHTON SECTIONS

DRAWING NO.

M461 / 6P

SECTION 5
(441770E, 406250N)
Original Ground Level 35.21



Original Ground Level 31.33

SECTION 6
(442060E, 405945N)



Original Ground Level 21.40

21.40

21.40

Original Ground Level 21.40

21.40

21.40

SECTION 7
(442125E, 405740N)
Original Ground Level 38.40



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P. JAMES BSc (Hons)
PRINCIPAL MINING ENGINEER



APPENDIX G

UK COAL COMPLETION PLAN DRAWING NO. 48/CP/1.

