

Public Document Pack



Rory Ringer – Democratic Services Team Leader
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Member Services Fax No. 01362 690821
DX743950 Dereham 2

To The Chairman and Members of the Local Plan Working Group

All other Members of the Council – for information

Your Ref:

Our Ref: JB/L.3

Contact: Julie Britton

Direct Dial: 01362 656343

E-mail: julie.britton@breckland.gov.uk

Date: 23 October 2013

AGENDA SUPPLEMENT (9) – APPENDIX D/PART 9 (final doc)

Dear Sir/Madam

LOCAL PLAN WORKING GROUP - TUESDAY 29 OCTOBER 2013

I refer to the agenda for the above-mentioned meeting and enclose the following item:

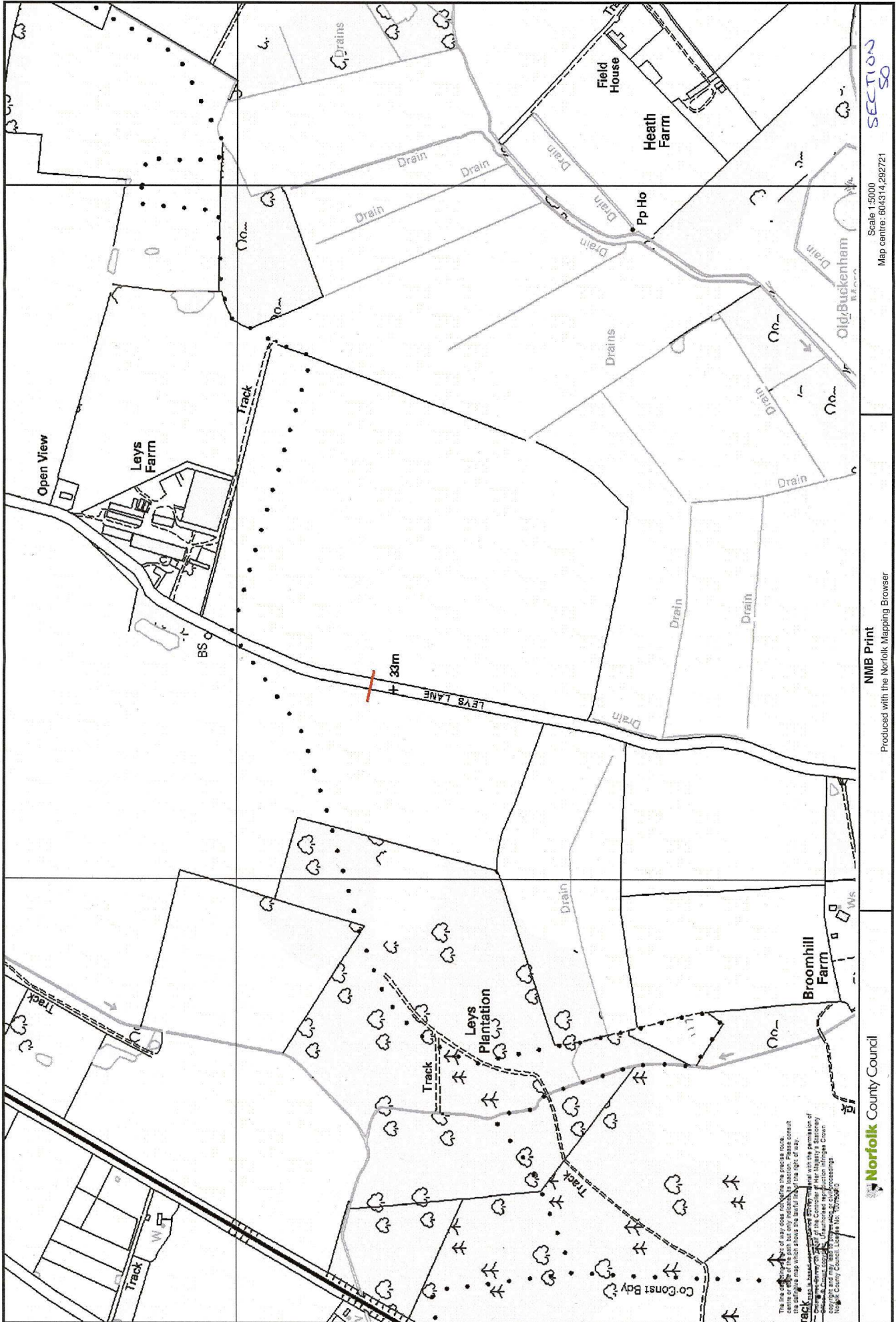
Item No	Report Title	Page Nos
8.	Attleborough Link Road Study – Appendix D/Part 9 Report by Phil Mileham, Deputy Planning Manager. Unfortunately, due to the size of Appendix D, I have had to split the document into 9 parts – this is the final part, part 9 of 9. NB: There will be a limited number of hard copies available on the day.	704 - 733

Yours faithfully

Julie Britton

Senior Committee Officer

Appendix C



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Norfolk County Council

NMB Print
Produced with the Norfolk Mapping Browser

Scale 1:5000
Map centre: 604314, 292721

SECTION 50

2012
POST ROOM



Norfolk County Council at your service

Environment, Transport, Development
County Hall
Martineau Lane
Norwich
NR1 2SG

*Senior Technician
Capita*

Mr Chris Hughes
Highways and Drainage Department
Breckland Council
Elizabeth House, Walpole Loke
DEREHAM
NR19 1EE

NCC general enquiries: 0344 800 8022
Textphone: 0344 800 8011

Your Ref: CG/006312-06/STATS
Date: 27 September 2012

My Ref: KHU Attleborough/SL
Tel No.: 01603 223199
Email: stephen.littleboy@norfolk.gov.uk

Dear Sir/Madam

New Street Works Act 1991 Attleborough Link Road - Attleborough

With reference to your notice/enquiry dated 13 September 2012 and received on 26 September 2012 for works at Attleborough Link Road Attleborough.

The County Council has street/sign lighting apparatus in the vicinity of your proposals but it would appear unlikely that this will need altering as a result of your works. If ground levels are substantially altered however, adjustments and alterations may be required to columns, sign posts etc and the cost of such work will have to be borne by you. Trial excavation, by hand, should be carried out to locate such apparatus BEFORE using mechanical excavation methods.

The enclosed drawing(s) indicates only (unless otherwise stated) the position, where known, of County Council underground services. It does not indicate the presence of cables belonging to the electricity network company to columns or sign posts, which must be assumed to exist.

In the event of any damage to the County Council's street/sign lighting apparatus, or to any service connection as a result of your operations, you will be held responsible for any costs arising therefrom.

Street lighting belonging to Highway Agency & Breckland District Council may be in the vicinity of your proposals and you should make separate enquiries direct to them in respect of their apparatus.

Yours faithfully

RB Debra

Street Lighting Team Manager
Encl

Walpole, Kathryn

From: Wilde, Mary
Sent: 26 September 2012 10:54
To: Walpole, Kathryn
Subject: FW: Scan-to-Me from 10.108.169.18 2012-09-26 094232
Attachments: Scan-to-Me from 10.108.169.18 2012-09-26 094232.pdf

Hi Kath

I have had a word with Gary/Graham

Please see comments to add to request.

Please assume that any public roads will probably have a buried drainage system present. This will need to be verified at any feasibility/design stage for the link road.

sent on behalf of

Graham Bygrave.(Area Manager South)

Mary Wilde
Business Support Assistant
South Area Office
Business Support and Development
Environment, Transport and Development
Direct dial telephone number: 01603 819866
email; mary.wilde@norfolk.gov.uk
Norfolk County Council
General enquiries 0344 800 8009
mail to highway@norfolk.gov.uk
web site www.norfolk.gov.uk

From: mary.wilde@norfolk.gov.uk [mailto:mary.wilde@norfolk.gov.uk]
Sent: 26 September 2012 09:43
To: Wilde, Mary
Subject: Scan-to-Me from 10.108.169.18 2012-09-26 094232



Scale 1:1250 Printed by NCC4 27/09/2012 08:10
 Attleborough Link Rd 1
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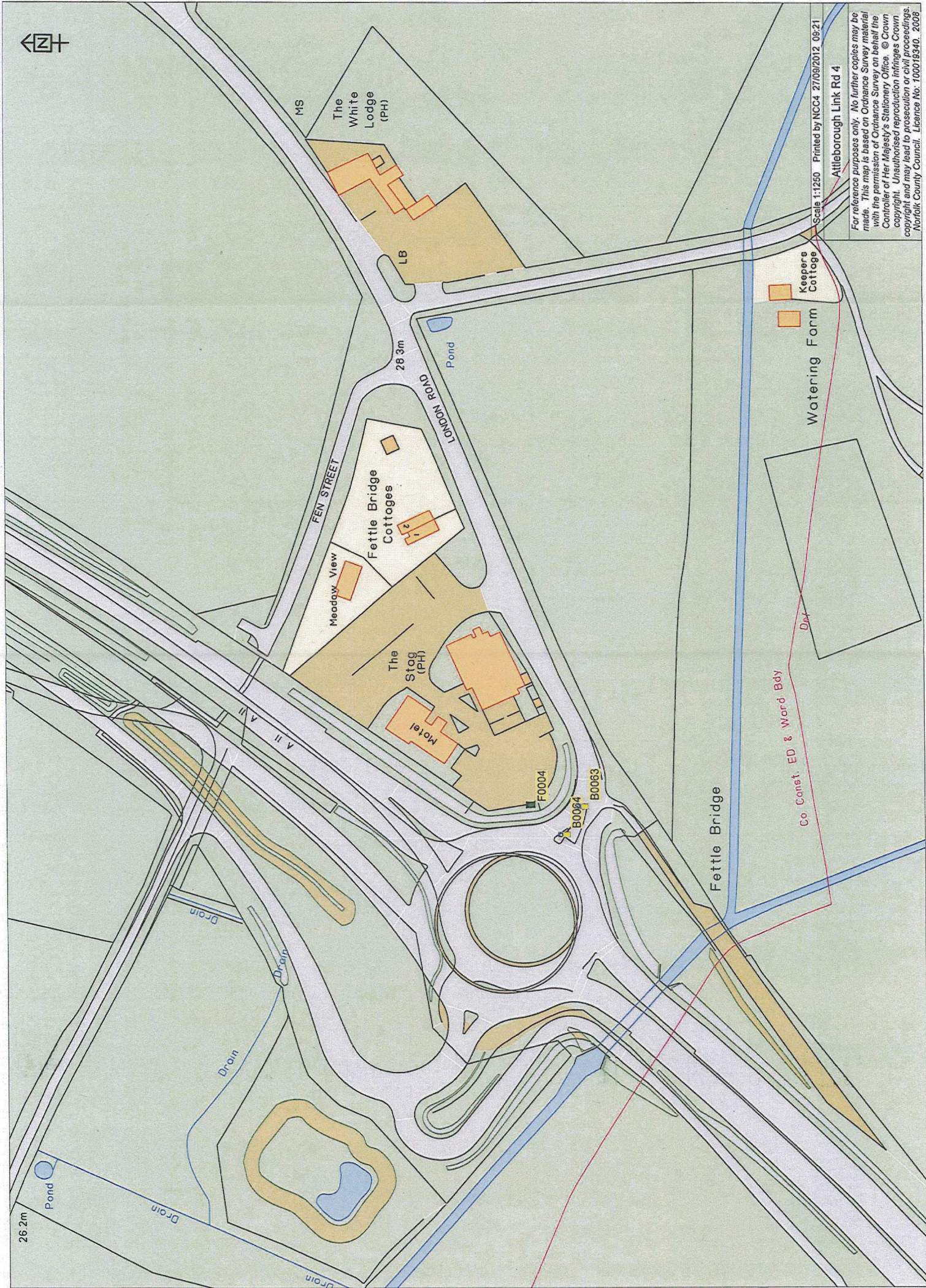
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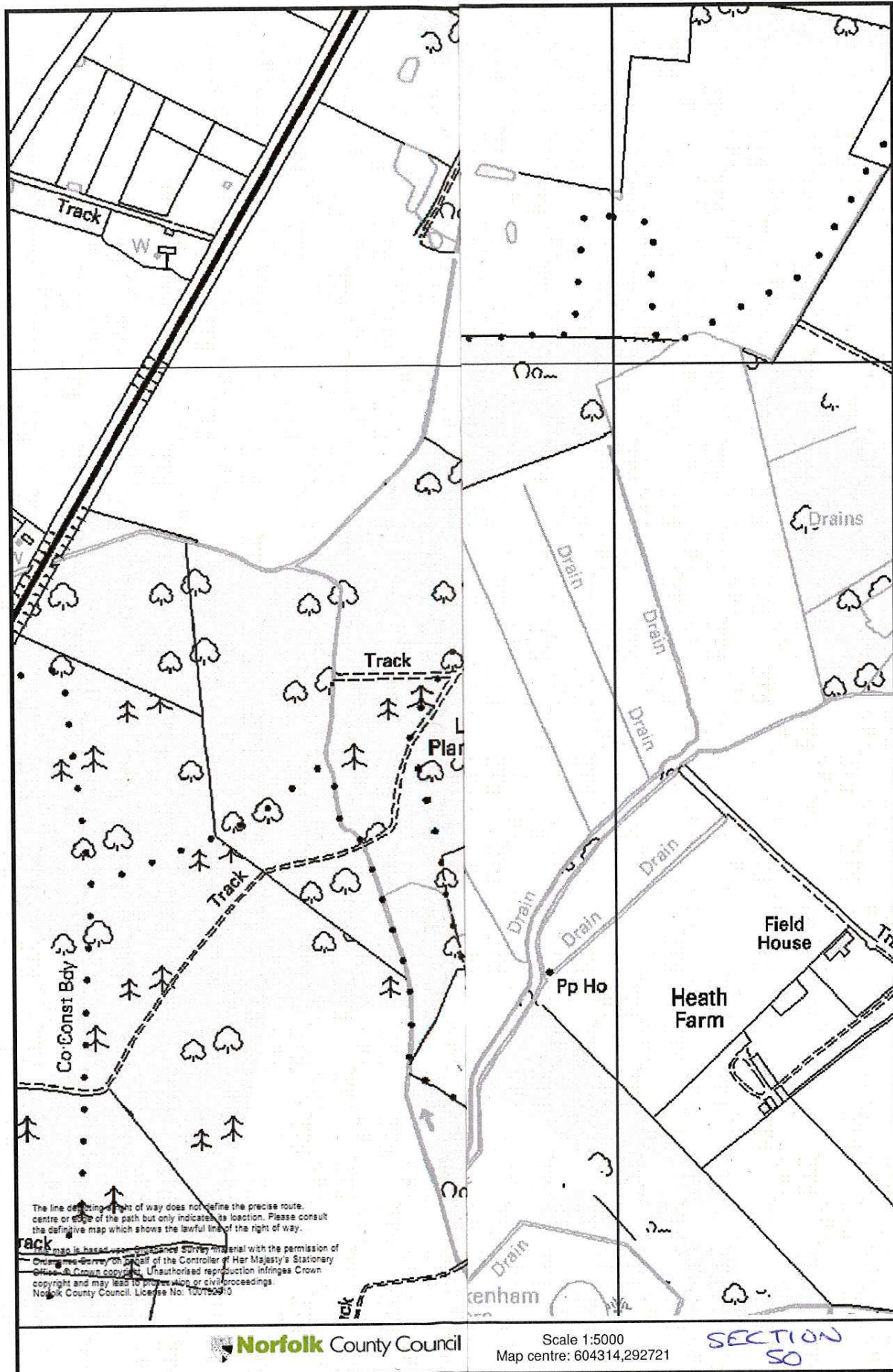
26.2m

28.3m



This is a plan of the site, not a site plan. It does not define the precise nature, centre or edge of the site, but only indicates its location. Please consult the definitive map which shows the actual line of the right of way.

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KEY TO BT SYMBOLS

	UNDERGROUND PLANT		POLE
	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
	DISTRIBUTION POINT		JOINTING POST
	MANHOLE		PROPOSED U/G
	DP BOUNDARY		PROPOSED O/H
	OTHER BT BOUNDARY		PROPOSED BOX

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BT Ref : EOR07399D

Map Reference : (centre) TM0447629541

Easting/Northing : (centre) 604476,229541

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714

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BT Ref : BAA07389C

Map Reference : (centre) TM0569893441

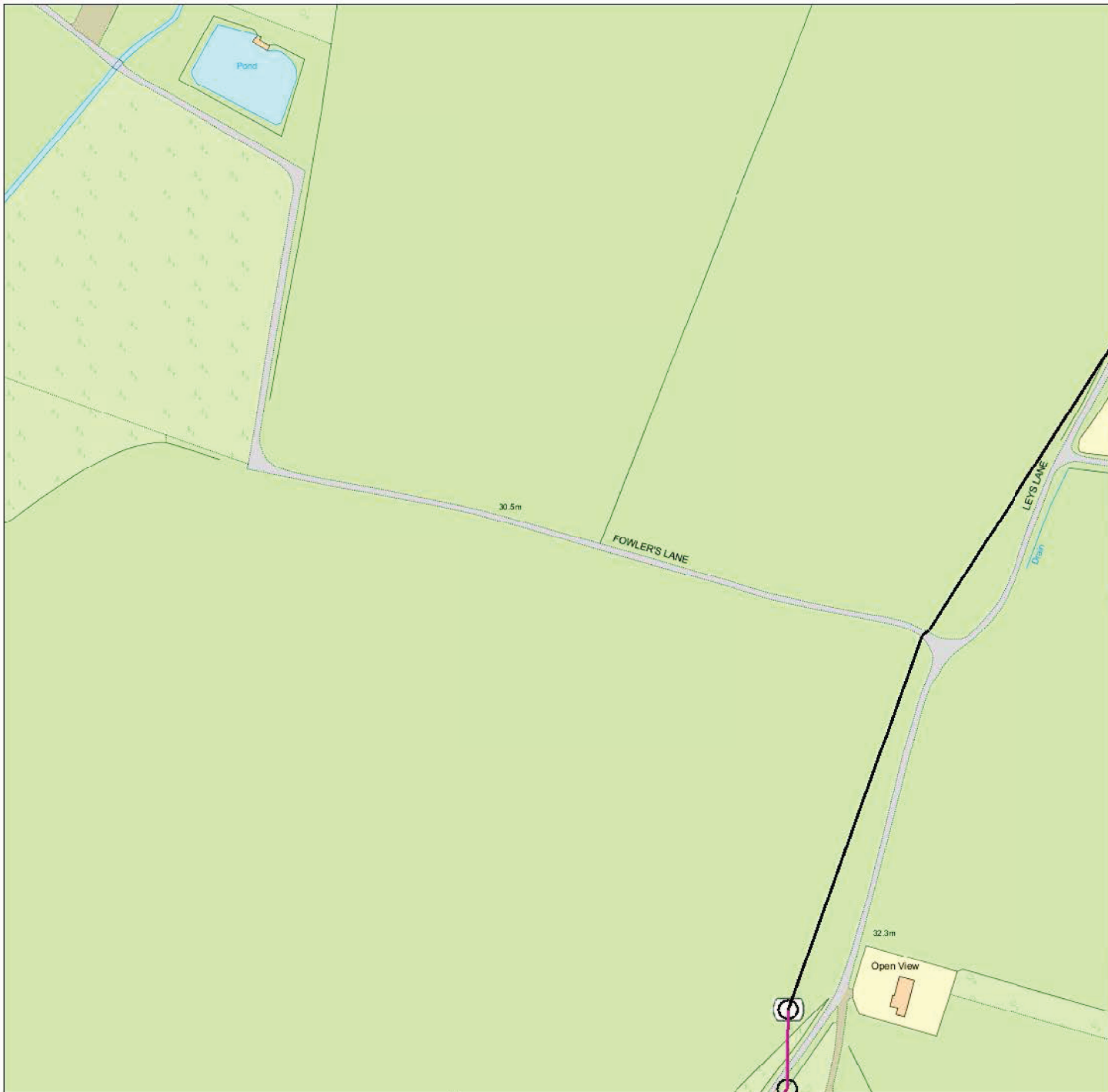
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715

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BT Ref : ZEE07379A

Map Reference : (centre) TM0439493452

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716

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BT Ref : UCZ07399B

Map Reference : (centre) TM0356692601

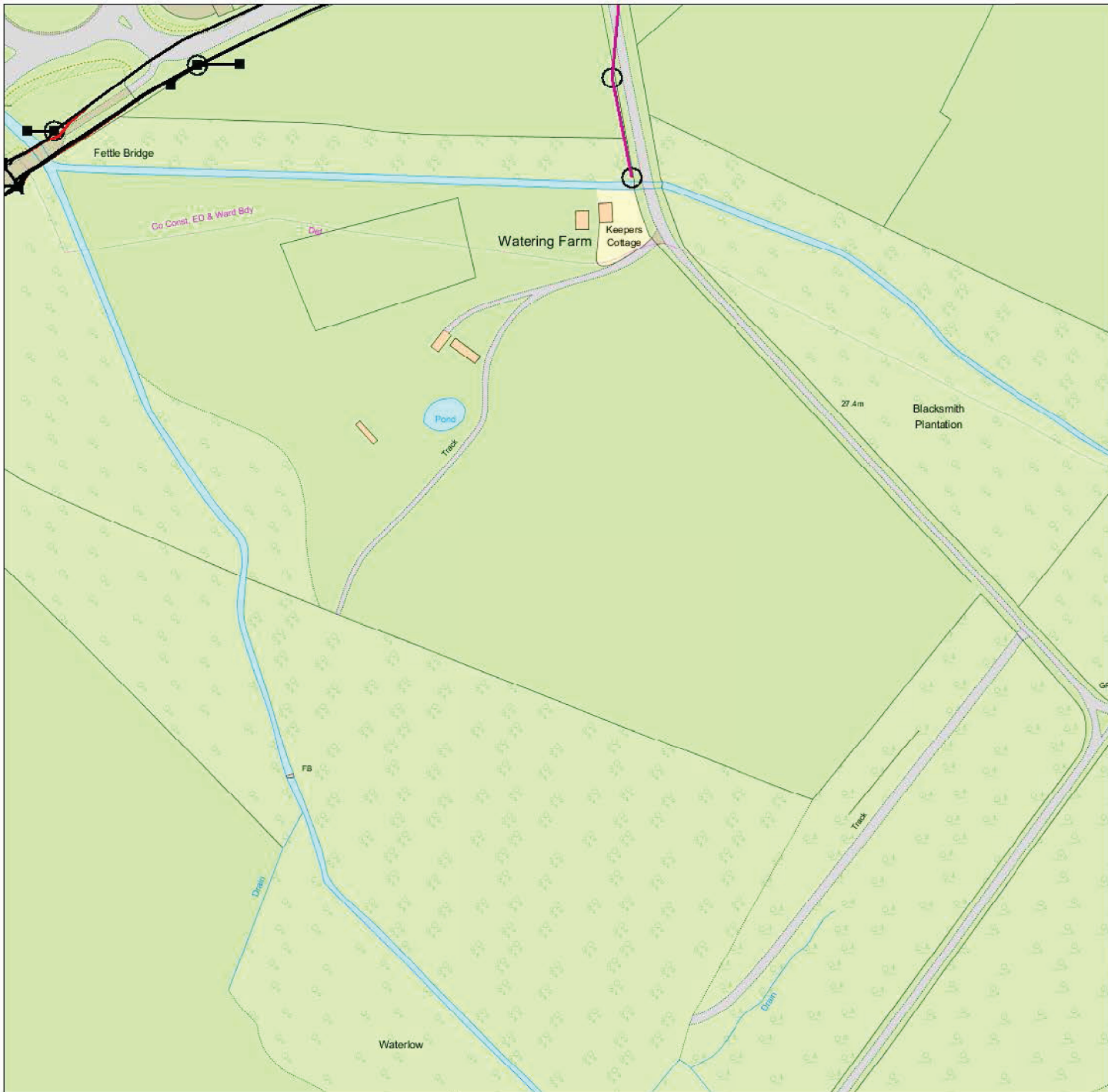
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717

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BT Ref : TXM07402E

Map Reference : (centre) TM0269692641

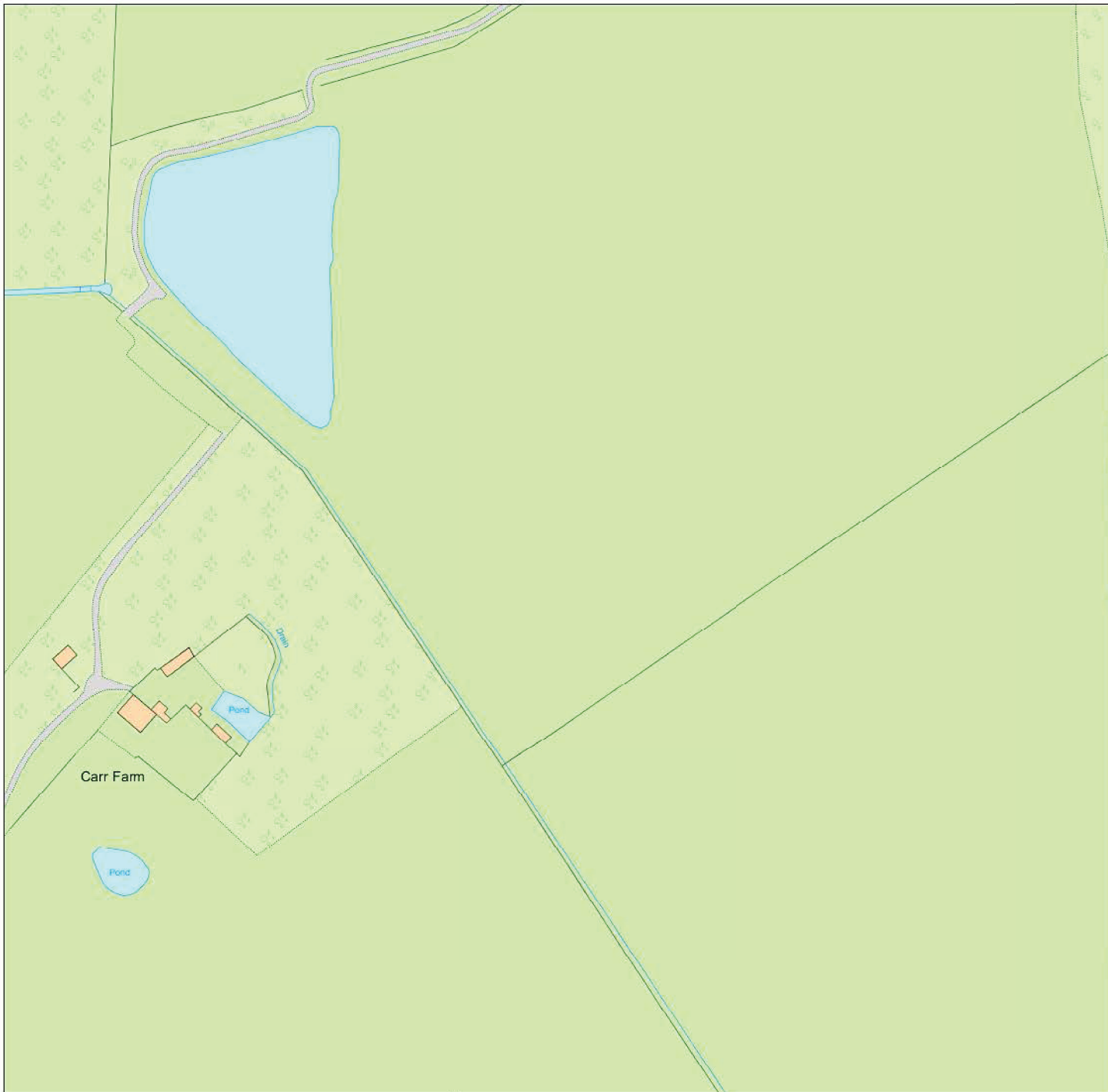
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718

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BT Ref : TPH07384V

Map Reference : (centre) TM0667692381

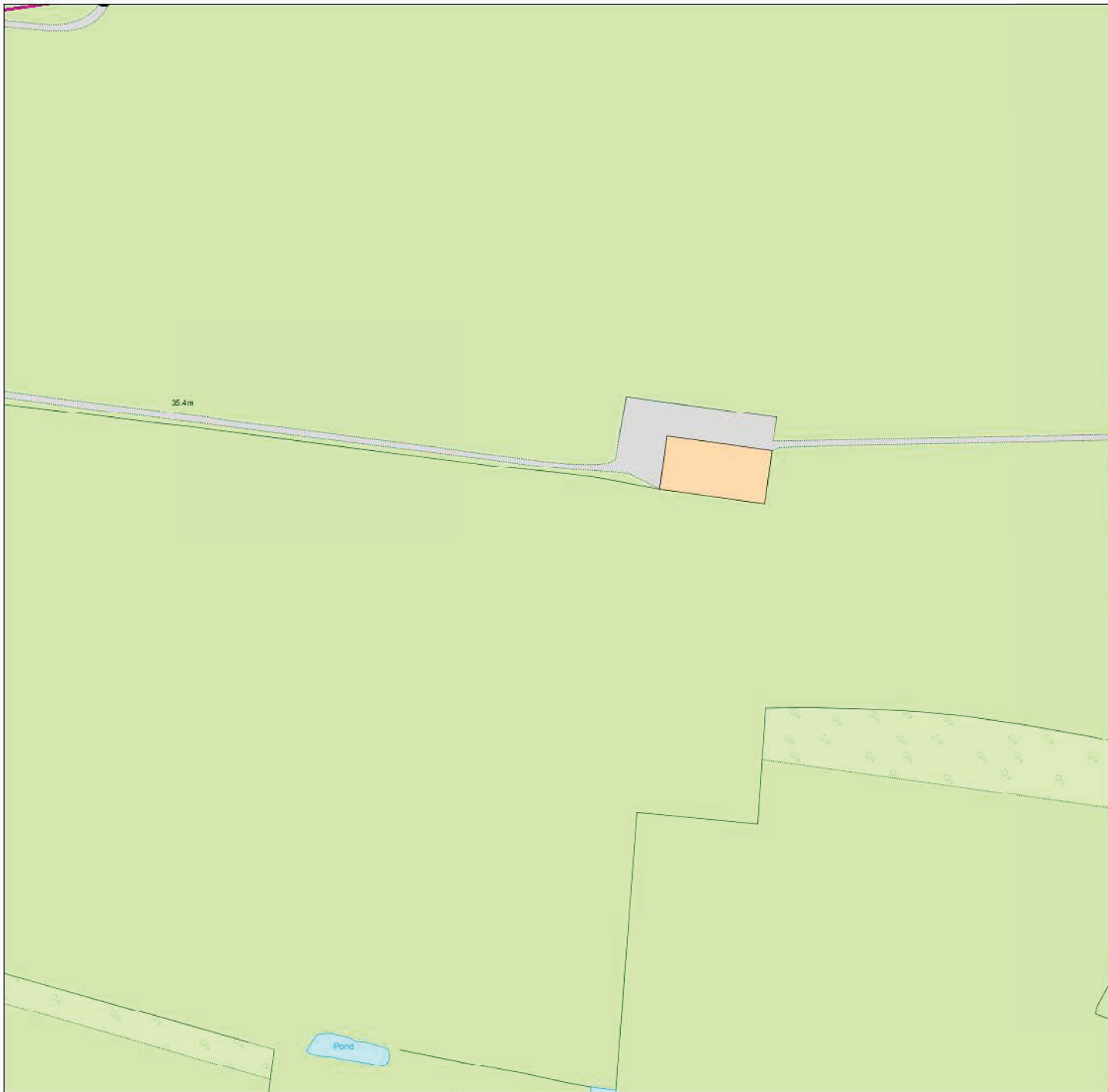
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719

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BT Ref : RSN07375R

Map Reference : (centre) TM0498293409

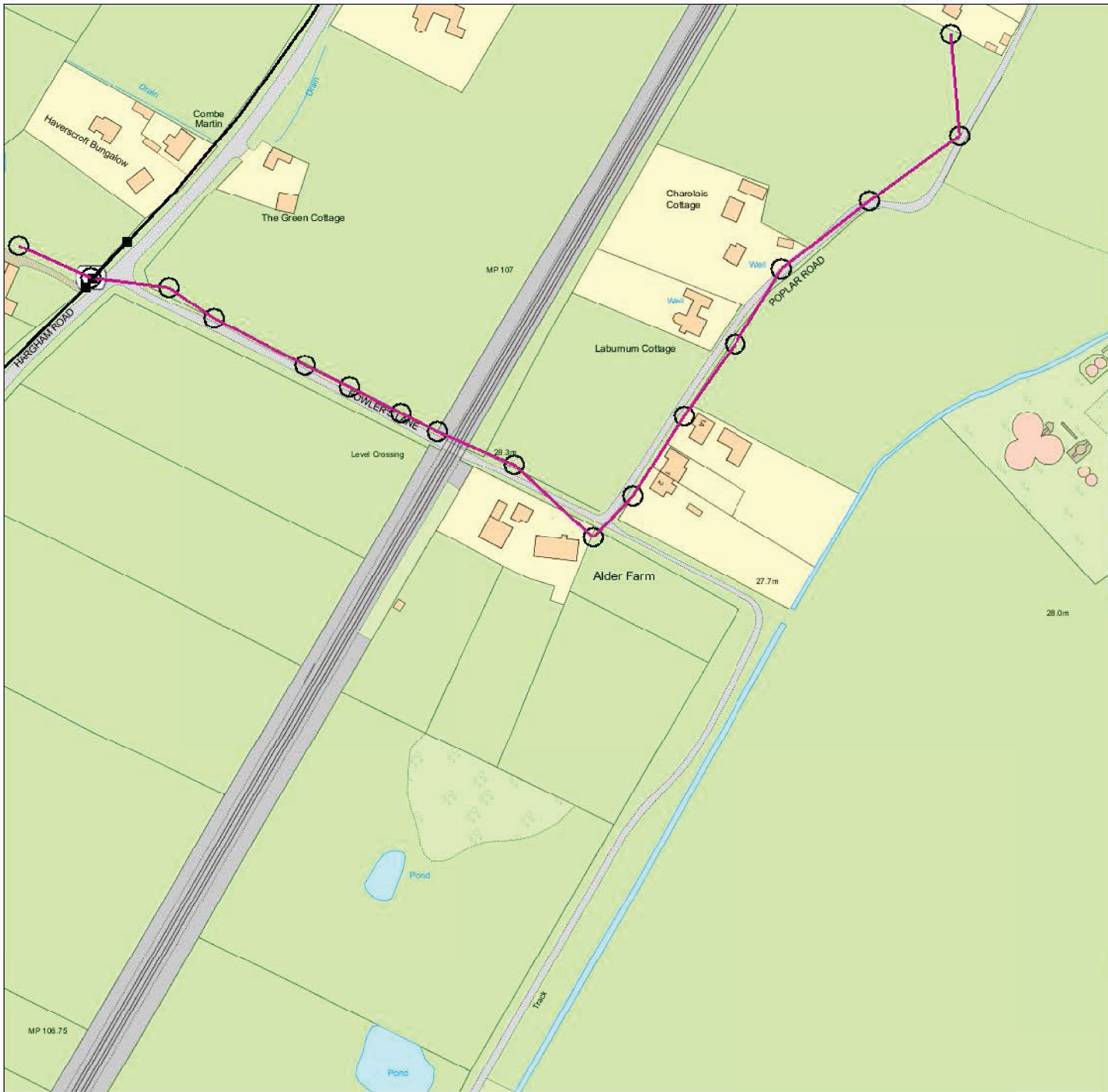
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720

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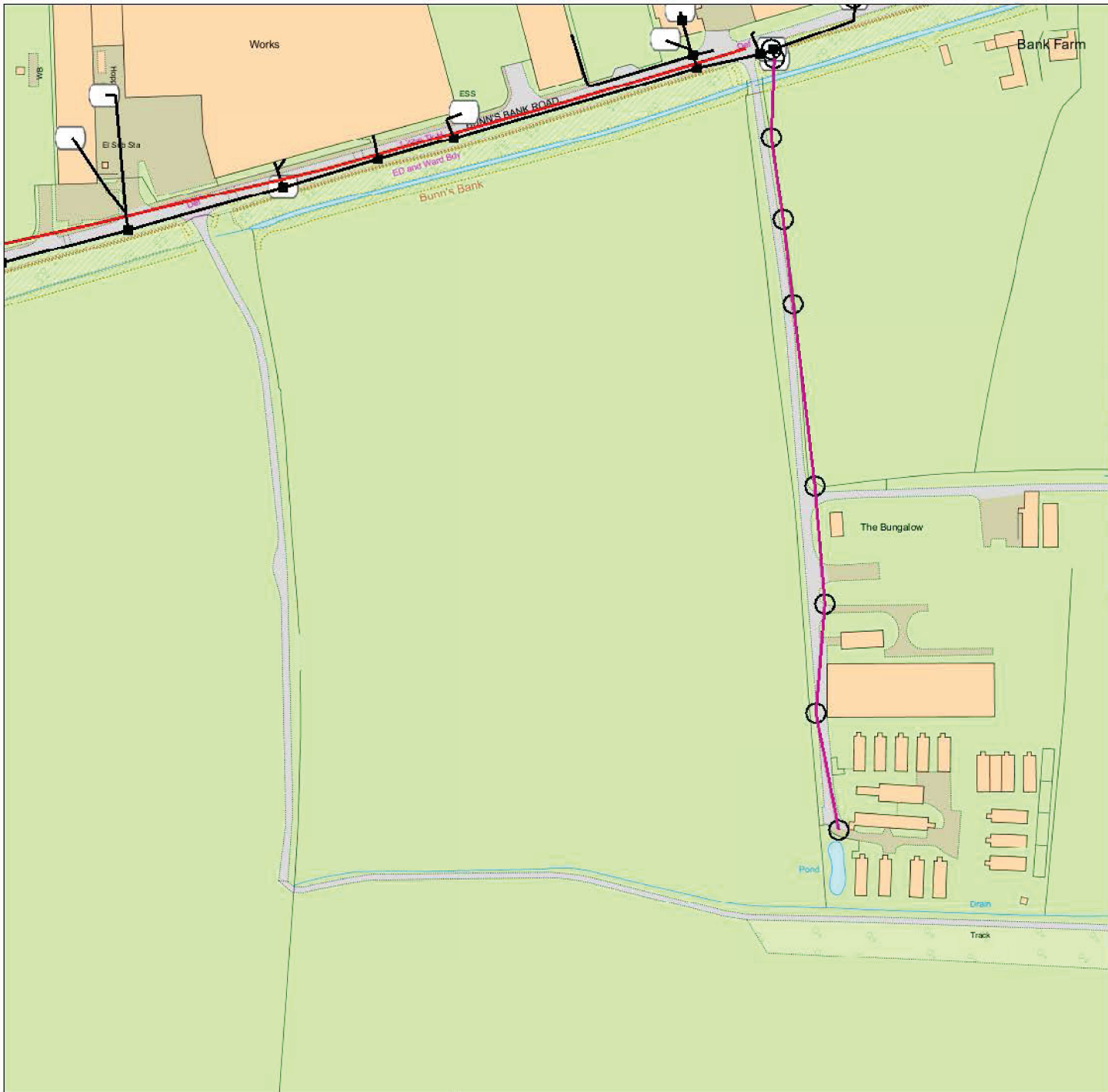
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Map Reference : (centre) TM0381693427

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BT Ref : KTA07382X

Map Reference : (centre) TM0652693481

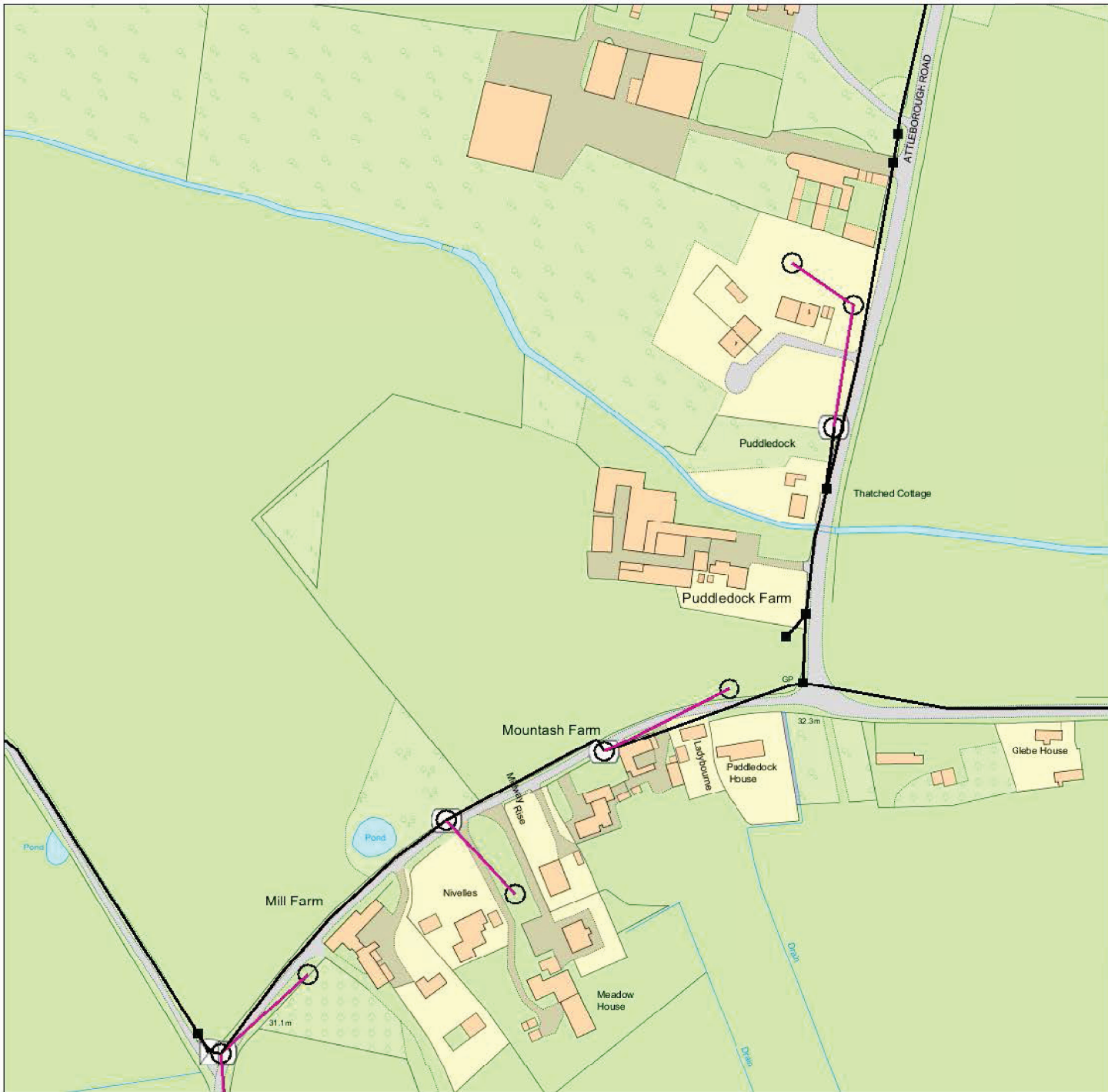
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722

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BT Ref : HRP07394Z

Map Reference : (centre) TM0554692501

Easting/Northing : (centre) 605546,292501

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723

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Appendix D

Geotechnical Risk Register

Potential risks for the project have been assessed using a simple scale points system using the relationship:

$$\text{Risk Rating } R = \text{Probability (P)} \times \text{Consequence (C)}$$

Table A

Probability (P)		
Category	Definition	Scale
Expected (>10%)	Likely to occur frequently, many times during the project	5
Probably (1-10%)	Several times during project period	4
Possible (0.1-1%)	Some time during project period	3
Improbable (0.01-.1%)	Unlikely but possible in project period	2
Remote (<0.01%)	Very unlikely to occur at all	1

Table B

Consequence (C)		
Category	Definition	Scale
Catastrophic	Multiple deaths, total loss of system	5
Serious	Major damage, death	4
Significant	Partial failure, serious injury	3
Minor	Minor damage/injury	2
Negligible	Can be regarded as without consequence	1

Table C

Level of Risk (R)		
Risk Rating	Category	Guidance
20-25	Very High	Intolerable, must be eliminated or avoided
11-19	High	Unacceptable, must be eliminated or avoided
7-10	Moderate	Undesirable, to be avoided if reasonably practical
3-6	Low	Acceptable – can be accepted provided risk is managed
1-2	Very Low	No remedial action is necessary

Probability (P)/Consequence (Impact) I = Risk Rating (R) Max allowable Risk Rating that is acceptable is 6

General Risk Register

Feature	Geotechnical Risk/Outcome	Initial Risk Rating				Mitigation	Residual Rating			
		P	C	R	Category		P	C	R	Category
Land slipping	Reactivation of slipping resulting in structure/earthworks failure.	1	4	4	Low	Realignment to avoid any land slippage/bank failure. Landslip stabilisation measures may need to be locally carried out. Carry out adequate ground investigation to identify possible slip areas.	1	4	4	Low
Lack of ground investigation data	Unforeseen ground conditions. Programme delays and additional scheme costs.	3	4	12	High	Undertake suitable site investigation prior to undertaking detailed design.	2	4	8	Moderate
Unstable cuttings	Delay and increased costs while slope remediated	2	2	4	Low	Undertake site investigation prior to undertaking detailed design. Regrade slope. Provide slope drainage. Consider other remediation measures or increasing land take.	1	2	2	Very Low
Rockhead level higher than anticipated	Additional cost and delay due to more extensive rock excavation	2	4	8	Moderate	Undertake site investigation prior to undertaking detailed design.	1	4	4	Low

Probability (P)/Consequence (Impact) I = Risk Rating (R)

Max allowable Risk Rating that is acceptable is 6

Feature	Geotechnical Risk/Outcome	Initial Risk Rating				Mitigation	Residual Rating			
		P	C	R	Category		P	C	R	Category
Rockhead level lower than anticipated	Design of earthworks slope, greater land take requirements or requirement to soil nail in overburden soils. Additional cost and delay during re-assessment slope stability.	2	4	8	Moderate	Undertake site investigation prior to undertaking detailed design.	1	4	4	Low
General Embankment	Unstable side slopes. Foundation failure. Excessive settlement. Disruption and delay to works.	2	2	4	Low	Undertake site investigation prior to undertaking detailed design. Use higher quality fill. Use of surcharging, stage construction, and drainage measures to enhance stability.	1	2	2	Very Low
Rock mass significantly weaker than anticipated	Rock cut unstable. Additional cost and delay to construction. Additional landtake required	2	4	8	Moderate	Undertake site investigation prior to undertaking detailed design. Re-design rock slope. Additional stabilisation measures required. Obtained additional land.	2	3	6	Low
Pavement foundations	Subgrade CBR value less than anticipated. Increase in cost of capping/pavement.	2	4	8	Moderate	Undertake site investigation prior to undertaking detailed design. Consider some form of improving sub-grade soils.	1	4	4	Low

Probability (P)/Consequence (Impact) | = Risk Rating (R) Max allowable Risk Rating that is acceptable is 6

Feature	Geotechnical Risk/Outcome	Initial Risk Rating				Mitigation	Residual Rating			
		P	C	R	Category		P	C	R	Category
Inadequate classification of chemical aggressiveness	Maintenance problems. Eventual failure of concrete structures.	2	5	10	Moderate	Undertake site investigation prior to undertaking detailed design.	1	5	5	Low
Contaminated material	Disruption to works Escalation in cost of earthworks	2	3	6	Moderate	Undertake site investigation prior to undertaking detailed design. Treatment and/or disposal required.	1	3	3	Low
Retaining Wall Structure Spread Foundation	Global instability. Bearing failure. Excessive settlement.	2	4	8	Moderate	Adequate initial site investigation and design. Inspect foundation material to confirm ground conditions during the construction phase and modify foundation design.	1	4	4	Low
Difficulties associated with building the highway interfaces.	Restricted working space. Increase in temporary works and stability problems. Slope failures. Disruption of construction.	2	3	6	Moderate	Adequate temporary works design to minimise extent of building on line. Detailed planning of construction required from the contractor.	1	3	3	Low
Significant changes in extent and quality of glacial deposits, with possible high ground water flow.	Problems with earthworks acceptability, compaction, forming sub-formation and temporary works.	3	4	12	High	Adequate initial site investigation. Schedule earthworks to avoid winter working. Use drainage measures to depress water table. Pre-treat materials prior to placement. Careful management of site drainage.	2	4	8	Moderate

Probability (P)/Consequence (Impact) | = Risk Rating (R) Max allowable Risk Rating that is acceptable is 6

Feature	Geotechnical Risk/Outcome	Initial Risk Rating				Mitigation	Residual Rating			
		P	C	R	Category		P	C	R	Category
Bridge Foundation Failure	Global instability. Bearing failure. Excessive settlement.	3	5	15	High	Adequate initial site investigation and design. Inspect foundation material to confirm ground conditions during the construction phase and modify foundation design.	1	5	5	Low
Flooding	Disruption to works Escalation in cost. Closure of road	2	5	10	High	Adequate initial site investigation and design. Schedule earthworks to avoid winter working. Use drainage measures to depress water table. Careful management of site drainage. Design to adequate flood level for final carriageway level.	1	5	5	Low
Unexploded Ordinance (UXO)	Disruption to works Escalation in cost. Closure of site. Damage to infrastructure / plant Death of operatives	2	5	10	High	Adequate specialist risk assessment of UXO potential. Follow specialist UXO mitigation recommendations.	1	5	5	Low

Probability (P)/Consequence (Impact) | = Risk Rating (R) Max allowable Risk Rating that is acceptable is 6

Appendix E

ENGLISH HERITAGE ARCHIVE
Air Photographs

Full single listing - Verticals, Standard order
Customer enquiry reference: 73213

Sortie number	Library number	Camera position	Frame number	Held	Centre point	Run	Date	Sortie quality	Scale 1:	Focal length (in inches)	Film details (in inches)	Film held by
RAF/3G/TUD/UK/59	183	V	5013	P	TM 0445 931	1	05 FEB 1946	AB	9000	12	Black and White 8.25 x 7.5	NMR
RAF/3G/TUD/UK/59	183	V	5014	P	TM 0399 931	1	05 FEB 1946	AB	9000	12	Black and White 8.25 x 7.5	NMR
RAF/3G/TUD/UK/59	183	V	5015	P	TM 0329 930	1	05 FEB 1946	AB	9000	12	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/1634	416	V	5378	P	TM 0309 940	33	09 JUL 1946	AB	10000	36	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/1634	416	V	5379	P	TM 0379 940	33	09 JUL 1946	AB	10000	36	Black and White 8.25 x 7.5	NMR
RAF/106G/UK/1634	416	V	5380	P	TM 0449 940	33	09 JUL 1946	AB	10000	36	Black and White 8.25 x 7.5	NMR
RAF/CPE/UK/1918	533	RP	3156	P	TM 0447 931	5	09 JAN 1947	A	10000	20	Black and White 8.25 x 7.5	NMR
RAF/CPE/UK/1918	533	RP	3157	P	TM 0444 931	5	09 JAN 1947	A	10000	20	Black and White 8.25 x 7.5	NMR
RAF/CPE/UK/1918	533	RP	3158	P	TM 0409 930	5	09 JAN 1947	A	10000	20	Black and White 8.25 x 7.5	NMR
RAF/CPE/UK/1918	533	RP	3159	P	TM 0379 930	5	09 JAN 1947	A	10000	20	Black and White 8.25 x 7.5	NMR
RAF/CPE/UK/1918	533	RP	3160	P	TM 0339 929	5	09 JAN 1947	A	10000	20	Black and White 8.25 x 7.5	NMR
RAF/CPE/UK/1918	533	RP	3161	P	TM 0309 929	5	09 JAN 1947	A	10000	20	Black and White 8.25 x 7.5	NMR
RAF/3G/TUD/UK/101	956	RV	6142	P	TM 0429 947	5	30 MAR 1946	A	10000	6	Black and White 9 x 9	NMR
RAF/3G/TUD/UK/101	956	RV	6143	P	TM 0319 946	5	30 MAR 1946	A	10000	6	Black and White 9 x 9	NMR
RAF/3G/TUD/UK/101	956	RV	6177	P	TM 0446 942	6	30 MAR 1946	A	10000	6	Black and White 9 x 9	NMR
RAF/3G/TUD/UK/101	956	RV	6178	P	TM 0359 941	6	30 MAR 1946	A	10000	6	Black and White 9 x 9	NMR
RAF/3G/TUD/UK/101	956	RV	6212	P	TM 0469 927	7	30 MAR 1946	A	10000	6	Black and White 9 x 9	NMR
RAF/3G/TUD/UK/101	956	RV	6213	P	TM 0359 926	7	30 MAR 1946	A	10000	6	Black and White 9 x 9	NMR
RAF/58/4605	2141	F21	113	N	TM 0389 937	24	03 AUG 1961	AC	7500	24	Black and White 9 x 9	MOD
RAF/58/4605	2141	F21	114	N	TM 0399 930	24	03 AUG 1961	AC	7500	24	Black and White 9 x 9	MOD
OS/70282	10583	V	85	P	TM 0329 938	1	31 JUL 1970	A	7500	12	Black and White 9 x 9	NMR
OS/70282	10583	V	86	P	TM 0329 931	1	31 JUL 1970	A	7500	12	Black and White 9 x 9	NMR
OS/70282	10583	V	100	P	TM 0439 932	2	31 JUL 1970	A	7500	12	Black and White 9 x 9	NMR
OS/70282	10583	V	101	P	TM 0439 938	2	31 JUL 1970	A	7500	12	Black and White 9 x 9	NMR
OS/94148A	14664	V	132	N	TM 0319 933	3	31 MAY 1994	A	7700	12	Black and White 9 x 9	NMR
OS/94148A	14664	V	133	N	TM 0319 939	3	31 MAY 1994	A	7700	12	Black and White 9 x 9	NMR
OS/94148B	14665	V	160	N	TM 0439 940	1	31 MAY 1994	A	7700	12	Black and White 9 x 9	NMR
OS/94148B	14665	V	161	N	TM 0439 934	1	31 MAY 1994	A	7700	12	Black and White 9 x 9	NMR
OS/94148B	14665	V	162	N	TM 0439 927	1	31 MAY 1994	A	7700	12	Black and White 9 x 9	NMR
OS/9513	14898	V	161	P	TM 0389 943	5	09 APR 1995	A	7400	6	Black and White 9 x 9	NMR
OS/9513	14898	V	162	P	TM 0329 943	5	09 APR 1995	A	7400	6	Black and White 9 x 9	NMR
OS/9513	14898	V	173	P	TM 0319 930	6	09 APR 1995	A	7400	6	Black and White 9 x 9	NMR
OS/9513	14898	V	174	P	TM 0389 930	6	09 APR 1995	A	7400	6	Black and White 9 x 9	NMR
OS/9513	14898	V	175	P	TM 0449 930	6	09 APR 1995	A	7400	6	Black and White 9 x 9	NMR
OS/97288	22373	V	26	N	TM 0439 937	4	28 OCT 1997	A	7700	12	Black and White 9 x 9	NMR
OS/97288	22373	V	27	N	TM 0389 932	4	28 OCT 1997	A	7700	12	Black and White 9 x 9	NMR
OS/99177	22963	V	175	N	TM 0299 935	1	19 JUN 1999	A	6600	12	Black and White 9 x 9	NMR
OS/99177	22963	V	176	N	TM 0349 935	1	19 JUN 1999	A	6600	12	Black and White 9 x 9	NMR
OS/99177	22963	V	177	N	TM 0399 935	1	19 JUN 1999	A	6600	12	Black and White 9 x 9	NMR
OS/99177	22963	V	178	N	TM 0449 935	1	19 JUN 1999	A	6600	12	Black and White 9 x 9	NMR
TM 0393 / 1	NMR	O	/ 05		TM 039932		12 JUN 2009				Digital colour 35 mm	
TM 0493 / 13	NMR	O	/ 13		TM 041932		12 JUN 2009				Digital colour 35 mm	
TM 0493 / 14	NMR	O	/ 14		TM 042933		12 JUN 2009				Digital colour 35 mm	
TM 0493 / 16	NMR	O	/ 16		TM 041934		12 JUN 2009				Digital colour 35 mm	

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