

Plotted On : 05/01/2016

Plotted By : Mark Ellis

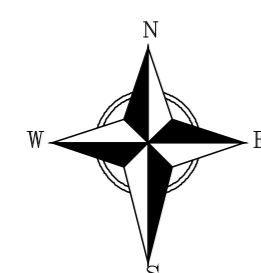
Plot Description: LAND AT CHISWELL GREEN, ST ALBANS,
HERTFORDSHIRE AL2 3AL

2016/2209461/ug_mains

Map Centre : TL1204SE



UK Power Networks
Plan Provision
Fore Hamlet
IPSWICH
Suffolk
IP3 8AA
Tel 0800 0565 866
Fax 08701 963782



For details of the symbology please refer to
<http://www.ukpowernetworks.co.uk/safety-emergencies/in-the-workplace/understanding-safety-symbols.shtml>

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in carriageway & 600mm cover in footway.
Before digging within one metre of these cable routes
Telephone 0800 056 5866 in order that the Company's apparatus may be located
on site and any necessary protection works agreed.

N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY
CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS
COMPANY.

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified – use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

Reproduced by permission of Ordnance Survey on behalf of HMSO. (c) Crown copyright and database right 2016. All rights reserved. Ordnance Survey Licence number 100019626. Data has been added to the Ordnance Survey base map; all proprietary rights in such additional data are and shall remain the exclusive property of (c) Eastern Power Networks plc or London Power Networks plc each being a distribution licensee under section 6(1)(c) of the Electricity Act 1989 for the relevant distribution services area as that term is defined in such licensee's distribution licence. All rights in such data reserved.

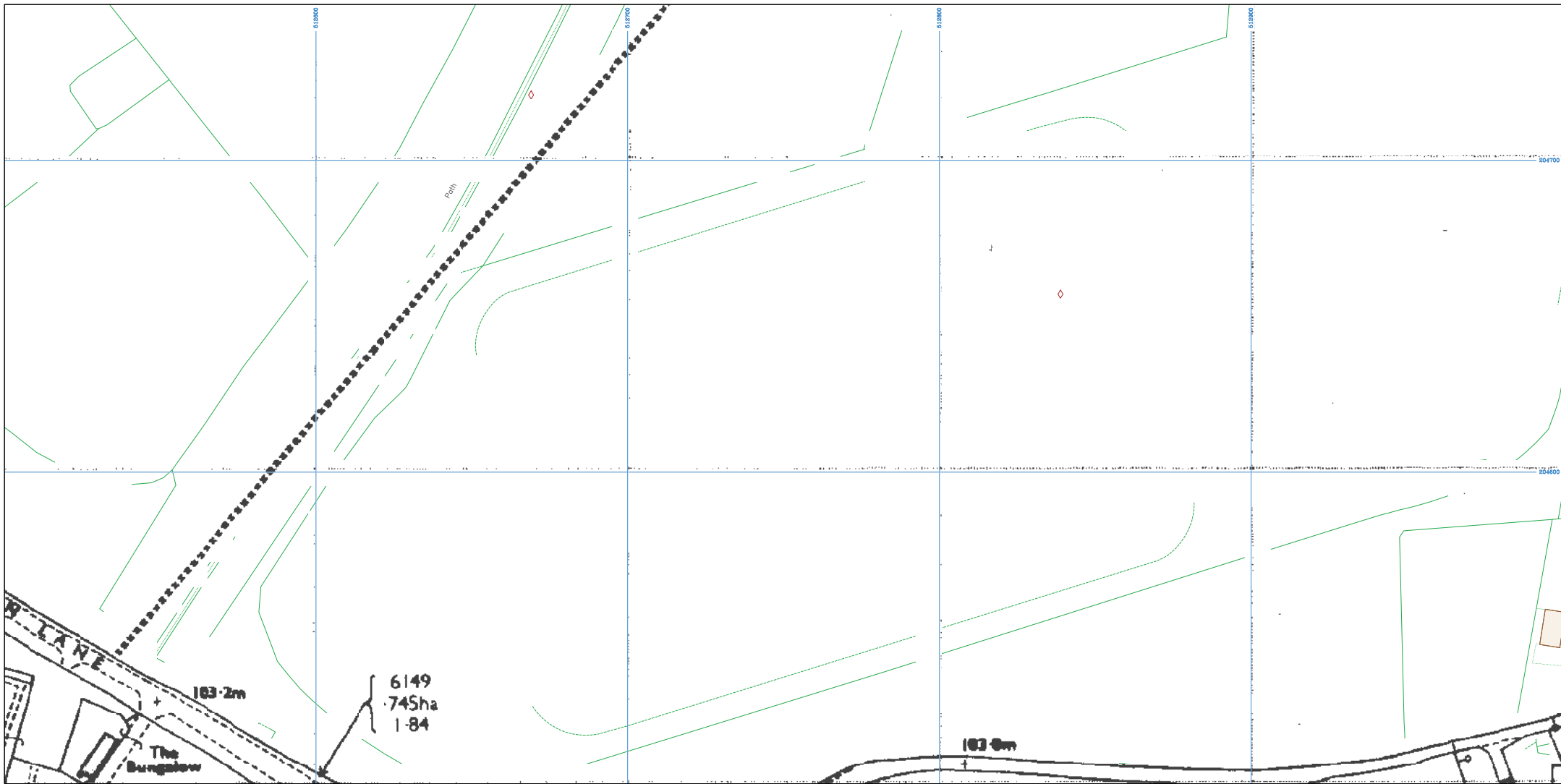
ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT – ASK! PHONE 0800 056 5866
EMERGENCY – If you damage a cable or line
Phone 0800 780 0780 (24hrs) URGENTLY

These basic safety precautions are explained in detail in the HSE booklet HS(G)47 – Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Plotted On : 05/01/2016

Plotted By : Mark Ellis

Plot Description: LAND AT CHISWELL GREEN, ST ALBANS,
HERTFORDSHIRE AL2 3AL

2016/2209461/ug_mains

Map Centre : TL1204NE



UK Power Networks
Plan Provision
Fore Hamlet
IPSWICH
Suffolk
IP3 8AA
Tel 0800 0565 866
Fax 08701 963782



For details of the symbology please refer to
<http://www.ukpowernetworks.co.uk/safety-emergencies/in-the-workplace/understanding-safety-symbols.shtml>

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in carriageway & 600mm cover in footway.
Before digging within one metre of these cable routes
Telephone 0800 056 5866 in order that the Company's apparatus may be located
on site and any necessary protection works agreed.

**N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY
CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS
COMPANY.**

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

Reproduced by permission of Ordnance Survey on behalf of HMSO. (c) Crown copyright and database right 2016. All rights reserved. Ordnance Survey Licence number 100019626. Data has been added to the Ordnance Survey base map; all proprietary rights in such additional data are and shall remain the exclusive property of (c) Eastern Power Networks plc or London Power Networks plc each being a distribution licensee under section 6(1)(c) of the Electricity Act 1989 for the relevant distribution services area as that term is defined in such licensee's distribution licence. All rights in such data reserved.

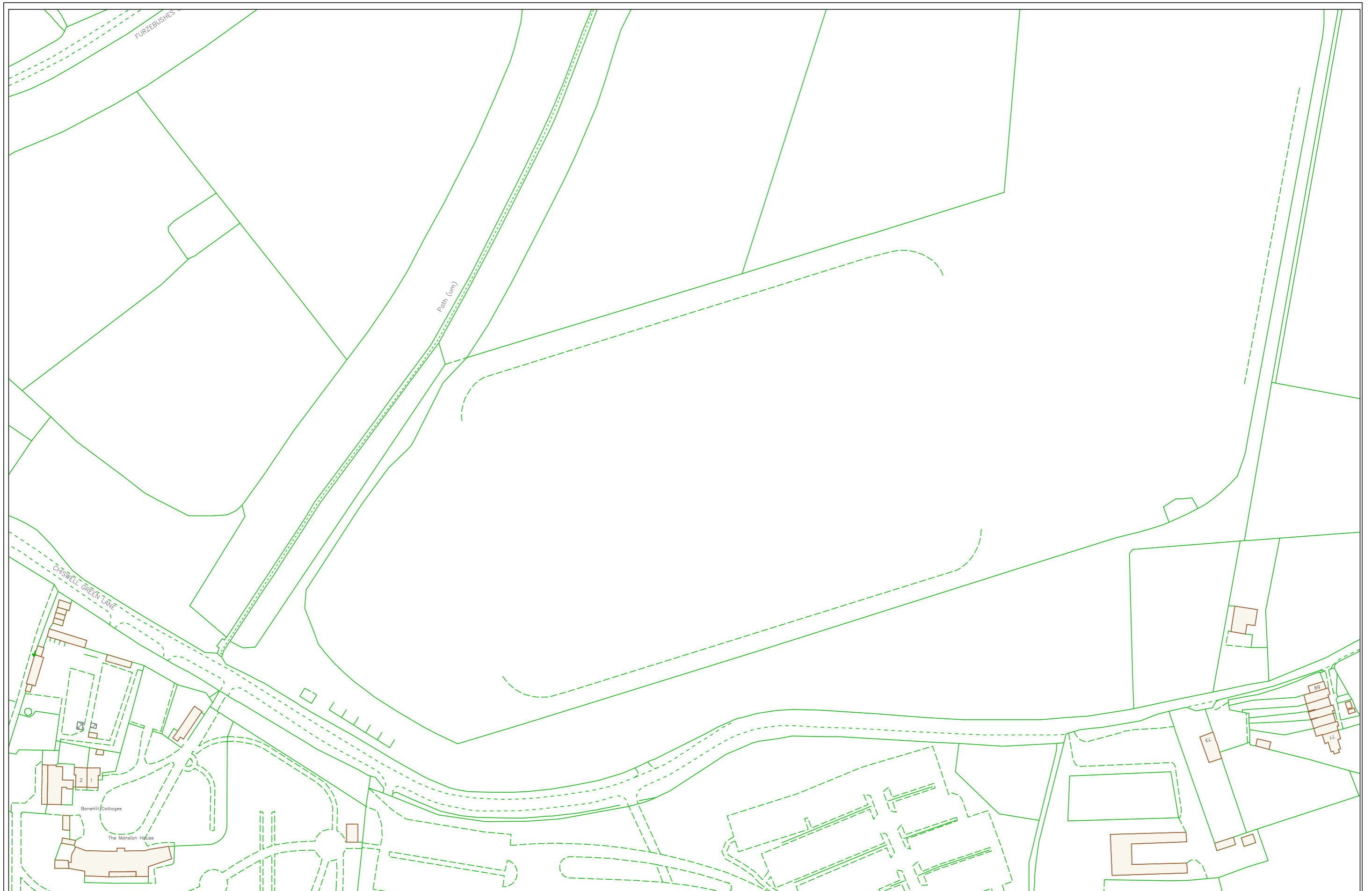
**ADVICE TO CONTRACTORS ON AVOIDING DANGER
FROM BURIED ELECTRICITY CABLES.**

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

**IF IN DOUBT - ASK! PHONE 0800 056 5866
EMERGENCY - If you damage a cable or line
Phone 0800 780 0780 (24hrs) URGENTLY**

These basic safety precautions are explained in detail in the HSE booklet, HS(G)47 - Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



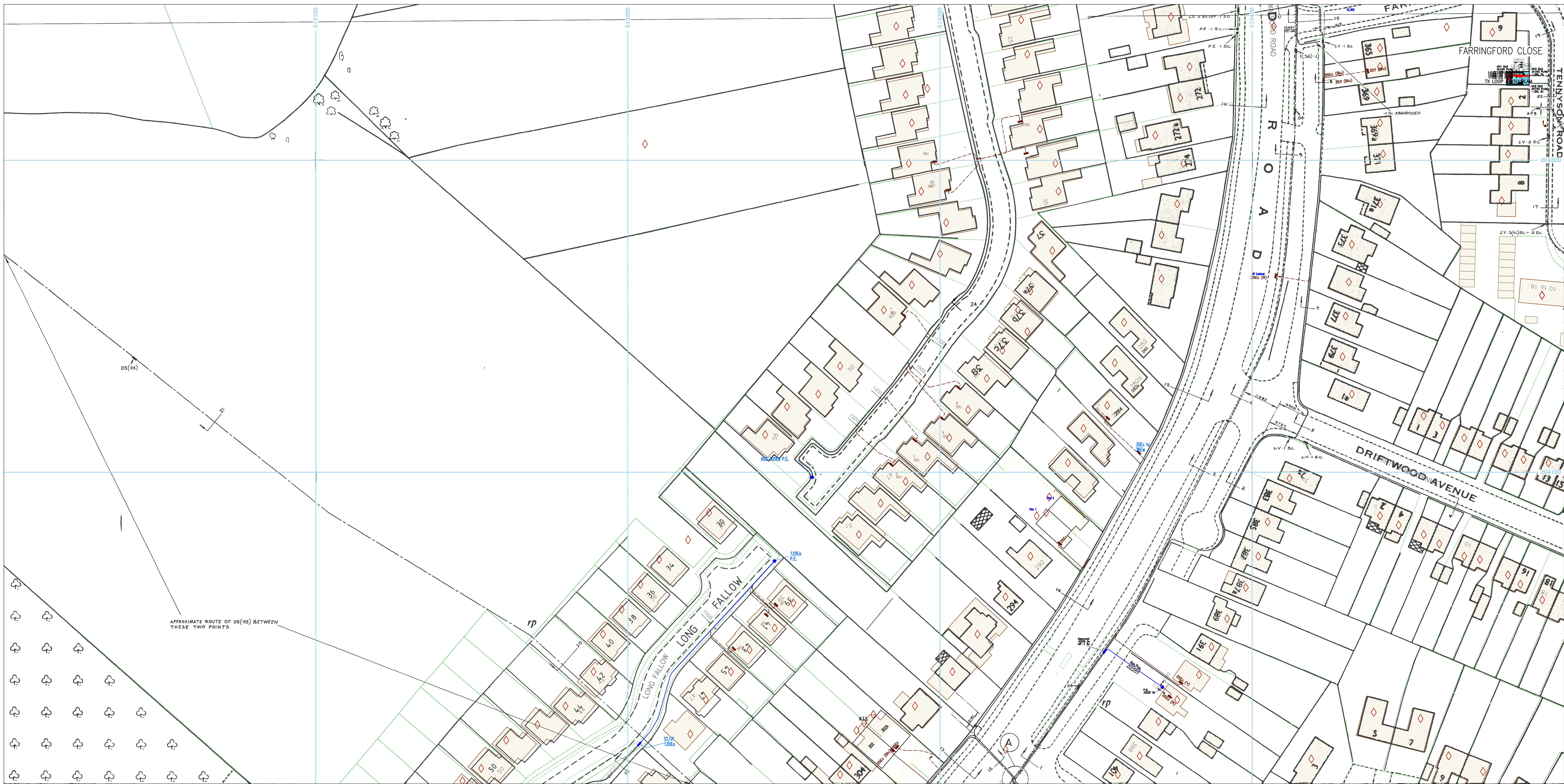
Plotted By: Mark Ellis

2016/2209461

Plotted On 05/01/2016

TL1204NEB





Plotted On : 05/01/2016

Plotted By : Mark Ellis

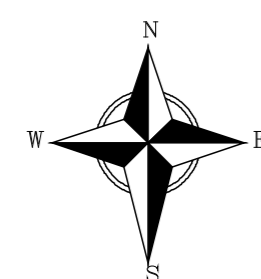
Plot Description: LAND AT CHISWELL GREEN, ST ALBANS,
HERTFORDSHIRE AL2 3AL

2016/2209461/ug_mains

Map Centre : TL1304SW



UK Power Networks
Plan Provision
Fore Hamlet
IPSWICH
Suffolk
IP3 8AA
Tel 0800 0565 866
Fax 08701 963782



For details of the symbology please refer to
<http://www.ukpowernetworks.co.uk/safety-emergencies/in-the-workplace/understanding-safety-symbols.shtml>

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in carriageway & 600mm cover in footway.
Before digging within one metre of these cable routes
Telephone 0800 056 5866 in order that the Company's apparatus may be located on site and any necessary protection works agreed.

N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified – use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

Reproduced by permission of Ordnance Survey on behalf of HMSO. (c) Crown copyright and database right 2016. All rights reserved. Ordnance Survey Licence number 100019626. Data has been added to the Ordnance Survey base map; all proprietary rights in such additional data are and shall remain the exclusive property of (c) Eastern Power Networks plc or London Power Networks plc each being a distribution licensee under section 6(1)(c) of the Electricity Act 1989 for the relevant distribution services area as that term is defined in such licensee's distribution licence. All rights in such data reserved.

ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT – ASK! PHONE 0800 056 5866
EMERGENCY – If you damage a cable or line
Phone 0800 780 0780 (24hrs) URGENTLY

These basic safety precautions are explained in detail in the HSE booklet, HS(G)47 – Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Plotted On : 05/01/2016

Plotted By : Mark Ellis

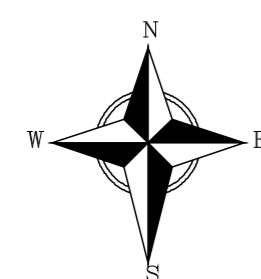
Plot Description: LAND AT CHISWELL GREEN, ST ALBANS,
HERTFORDSHIRE AL2 3AL

2016/2209461/ug_mains

Map Centre : TL1304SW



UK Power Networks
Plan Provision
Fore Hamlet
IPSWICH
Suffolk
IP3 8AA
Tel 0800 0565 866
Fax 08701 963782



For details of the symbology please refer to
<http://www.ukpowernetworks.co.uk/safety-emergencies/in-the-workplace/understanding-safety-symbols.shtml>

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in carriageway & 600mm cover in footway.

Before digging within one metre of these cable routes
Telephone 0800 056 5866 in order that the Company's apparatus may be located on site and any necessary protection works agreed.

N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified – use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

Reproduced by permission of Ordnance Survey on behalf of HMSO. (c) Crown copyright and database right 2016. All rights reserved. Ordnance Survey Licence number 100019626. Data has been added to the Ordnance Survey base map; all proprietary rights in such additional data are and shall remain the exclusive property of (c) Eastern Power Networks plc or London Power Networks plc each being a distribution licensee under section 6(1)(c) of the Electricity Act 1989 for the relevant distribution services area as that term is defined in such licensee's distribution licence. All rights in such data reserved.

ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT – ASK! PHONE 0800 056 5866
EMERGENCY – If you damage a cable or line
Phone 0800 780 0780 (24hrs) URGENTLY

These basic safety precautions are explained in detail in the HSE booklet, HS(G)47 – Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.



Plotted On : 05/01/2016

Plotted By : Mark Ellis

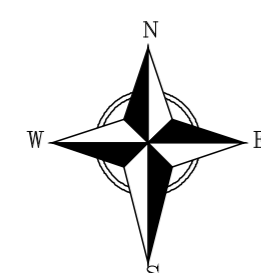
Plot Description: LAND AT CHISWELL GREEN, ST ALBANS, HERTFORDSHIRE AL2 3AL

2016/2209461/ug_mains

Map Centre : TL1304NW



UK Power Networks
Plan Provision
Fore Hamlet
IPSWICH
Suffolk
IP3 8AA
Tel 0800 0565 866
Fax 08701 963782



For details of the symbology please refer to <http://www.ukpowernetworks.co.uk/safety-emergencies/in-the-workplace/understanding-safety-symbols.shtml>

PRIMARY CABLES
EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts

Depth normally 750mm cover in carriageway & 600mm cover in footway.

Before digging within one metre of these cable routes Telephone 0800 056 5866 in order that the Company's apparatus may be located on site and any necessary protection works agreed.

N.B. THRUST BORERS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF ANY CABLES BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY.

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified – use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks' plant & equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks Ltd does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks Ltd does not exclude or limit its liability if it causes the death of a person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2, UK Power Networks Ltd has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise howsoever for any loss, damage, costs, claims, demands or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

Reproduced by permission of Ordnance Survey on behalf of HMSO. (c) Crown copyright and database right 2016. All rights reserved. Ordnance Survey Licence number 100019626. Data has been added to the Ordnance Survey base map; all proprietary rights in such additional data are and shall remain the exclusive property of (c) Eastern Power Networks plc or London Power Networks plc each being a distribution licensee under section 6(1)(c) of the Electricity Act 1989 for the relevant distribution services area as that term is defined in such licensee's distribution licence. All rights in such data reserved.

ADVICE TO CONTRACTORS ON AVOIDING DANGER FROM BURIED ELECTRICITY CABLES.

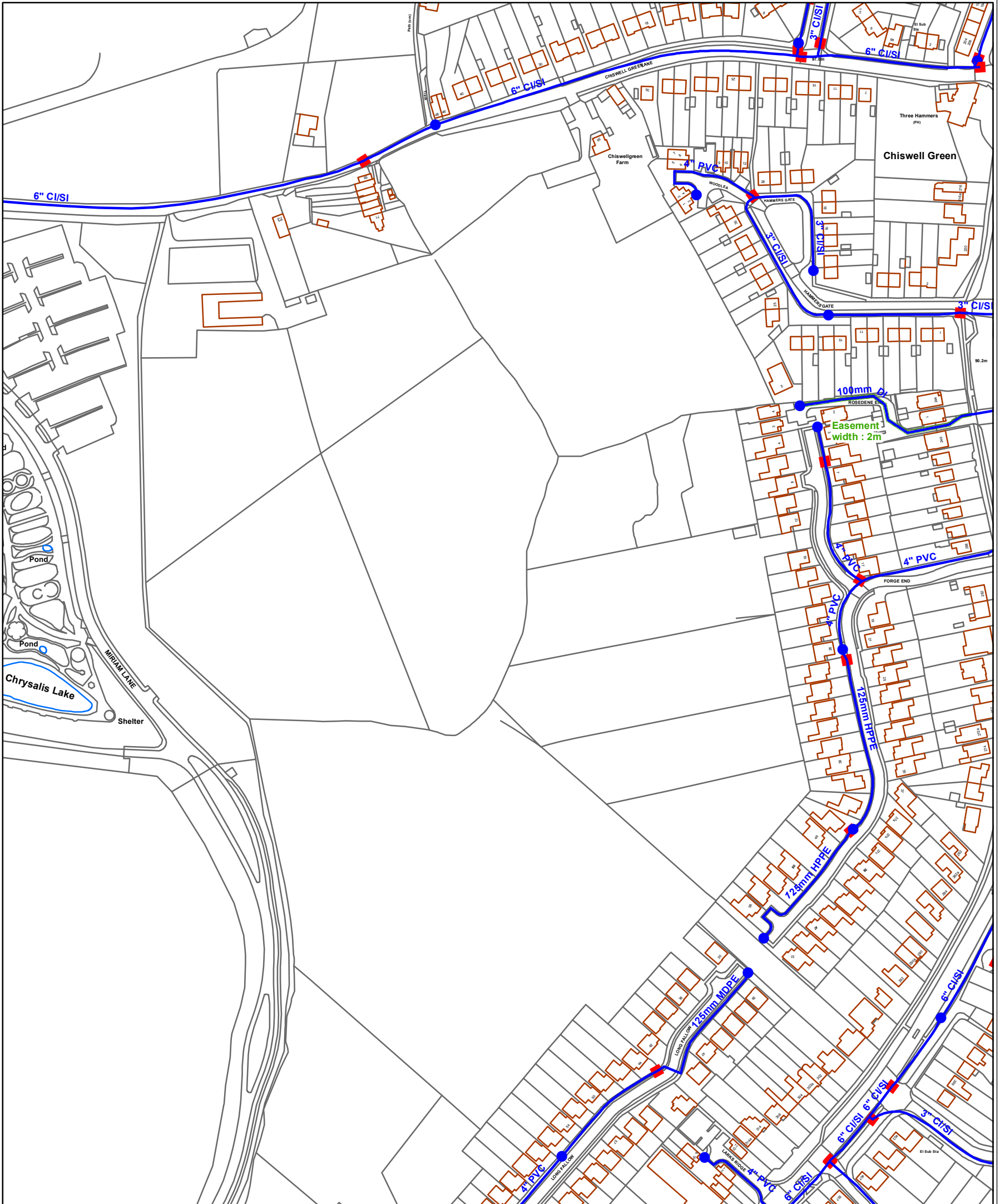
- 1) Do have cable drawings with you on site and check them before you start the excavation.
- 2) Do have a cable locator tool on site and use it to help you.
- 3) Mark out the location of electricity cables.
- 4) Do not use a mechanical excavator within 0.5m of electricity cables.
- 5) Use spades and shovels in preference to other tools.
- 6) Never disturb electricity cables and joints or their protective covers.

IF IN DOUBT – ASK! PHONE 0800 056 5866
EMERGENCY – If you damage a cable or line
Phone 0800 780 0780 (24hrs) URGENTLY

These basic safety precautions are explained in detail in the HSE booklet, HS(G)47 – Avoiding Danger from Underground Services, a copy of which may be obtained from your supervisor or HMSO.

Please be aware that electric lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

Appendix G
Affinity Water Records



© Affinity Water Limited. Based upon the Ordnance Survey map by Affinity Water Limited with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. © Crown copyright Affinity Water licence number 100053744. Plans are the property of Affinity Water Limited and may not be reproduced or distributed in any form (or any part) without the written permission of Affinity Water Limited. Plans are continuously being updated, so out of date plans should be destroyed and not relied upon. The position of apparatus shown on this plan is provided for guidance only and should not be relied upon as being precise. Therefore the Company accepts no responsibility in the event of inaccuracy. Service pipes are not necessarily shown on this plan. Cover is normally 915mm for mains and 750mm for communication pipes but this may vary. The actual position of apparatus must be determined on site by making hand dug trial holes. The Company requires a minimum of two working days notice of the intention to excavate trial holes. Except where prior written permission has been obtained, it is an offence under Section 174 of the Water Industry Act 1991 to operate or interfere with any valves, hydrants or other apparatus vested in Affinity Water.

Page Size = A3

07/01/2016

X513105,Y204280

1:2,000



This map was created by the Affinity Water Geographical Analysis Team, Tamblin Way, Hatfield, AL10 9EZ

	Distribution Main		Hydrant
	Asbestos Distribution Main		Fitting
	Abandoned Main		Easement
	Asbestos Abandoned Main		Company Boundary
	Adit / Tunnel		
	Cable		

Appendix H
BT Openreach Records

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.

DIAL BEFORE YOU DIG

FOR PROFESSIONAL ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS

ADVANCE NOTICE REQUIRED
(Office hours: Monday-Friday 08.00 to 17.00)

Tel: 0800 9173993
E-mail: dbyd@openreach.co.uk
Website: www.dialbeforeyoudig.com

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office
(C) Crown Copyright British Telecommunications plc 100028040

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

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

openreach
a BT Group business

BT Ref : NKT03155D

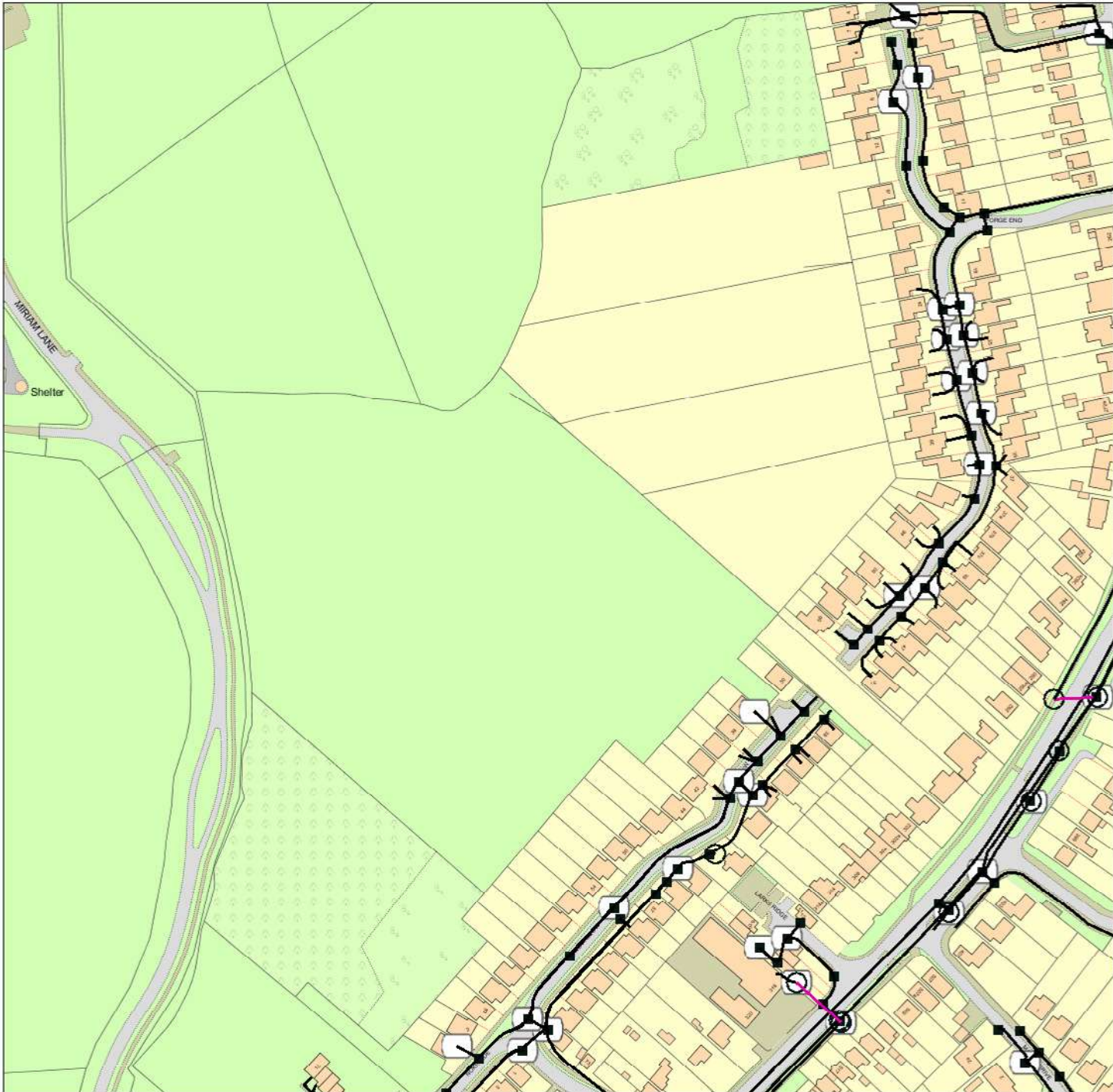
Map Reference : (centre) TL1309104437

Easting/Northing : (centre) 513091,204437

Issued : 05/01/2016 15:15:44

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy.

It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.

DIAL BEFORE YOU DIG

FOR PROFESSIONAL ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS

ADVANCE NOTICE REQUIRED
(Office hours: Monday-Friday 08.00 to 17.00)

Tel: 0800 9173993
E-mail: dbyd@openreach.co.uk
Website: www.dialbeforeyoudig.com

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office
(C) Crown Copyright British Telecommunications plc 100028040

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

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

openreach
a BT Group business

BT Ref : WUC03181K

Map Reference : (centre) TL1312904144

Easting/Northing : (centre) 513129,204144

Issued : 05/01/2016 15:18:23

FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL nnhc@openreach.co.uk BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA

Appendix I
Virgin Media Records



Glanville
Cornerstone House,
62 Foxhall Road, Didcot,
Oxfordshire,
OX11 7AD

Virgin Media
Field Services
Units 1-12
Broad Lane
Mayfair Business Park
Bradford
Yorkshire
BD4 8PW

Tel: 0870 888 3116 Opt 2

Plant Enquiry Ref: VM.136682
Letter Date 05.01.2016
Your Ref: N/A
Date:
08.01.2016

Hello,

Enquiry Location: LAND AT CHISWELL GREEN, ST ALBANS, HERTFORDSHIRE, AL2 3AL

Thank you for your enquiry regarding work at the above location.

I enclose a copy of our above referenced drawing, marked to show the approximate position of plant owned and operated by Virgin Media.

You will be aware that you have a duty to ensure that no damage results to this equipment as a result of your proposed works. Please note that this apparatus may contain Fibre Optic, Coaxial and/or 240v Power Cables and as such, special care must be taken when excavating this area.

Should you require Virgin Media apparatus to be diverted to accommodate your works and require a detailed estimate, please send a cheque to the value of £720.00 (Bus) / £240.00 (Res) Inc VAT to:

Diversionary Works, Virgin Media, 1 Dove Wynd, Strathclyde Business Park Bellshill ML4 3AL

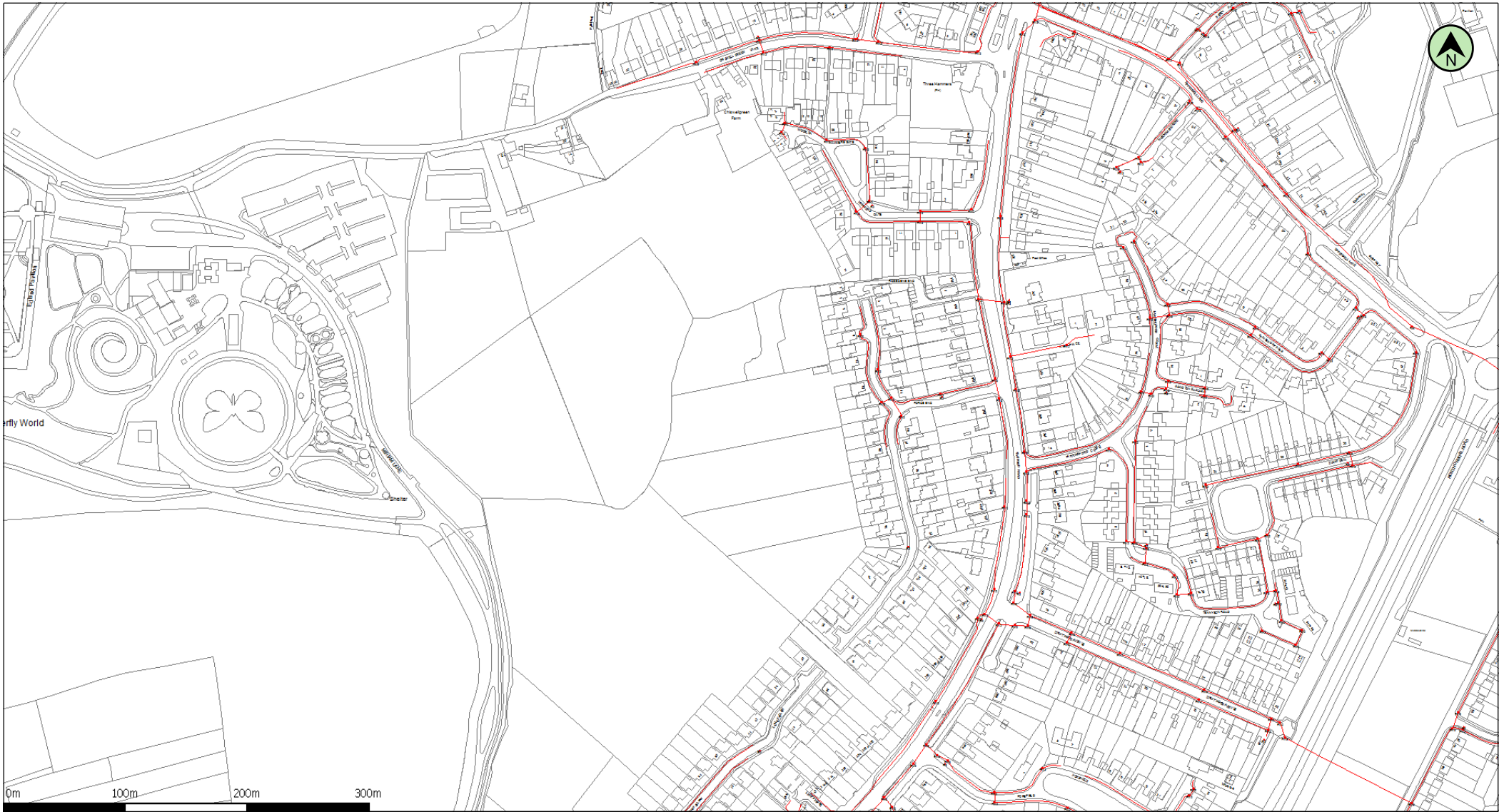
Or Call the Diversionary Team on: 0800 408 0088 Option 1

Should your request be in relation to a new development and you require an estimate to be prepared for Virgin Media to service your proposed development, please submit this request for costs along with site drawings (scale 1:500) to the New Build Team also at the above address.

Yours faithfully

National Plant Enquiries Team, email: plant.enquiries.team@virginmedia.co.uk

Please note: National Plant Enquiries are now able to accept all major cards with the exception of American Express for credit/debit card payments. If you wish to use this facility please contact us at the above telephone number. Please note: National Plant Enquiries Team (Bradford) cover and respond to plant enquiries for all ex ntl:Telewest franchise areas.



(c) Crown copyright and database rights 2015 Ordnance Survey 100019209

Date: 08/01/16

Scale: 1:4432

Map Centre: 513187,204291

Data updated: 01/11/15

Telecoms Plan A4

Important information - please read-
The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the 'Affected Postcodes.pdf', which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2015 Ordnance Survey 100019209.

Duct, Trench



Chamber



Cabinet



shalini.akshintala@virginmedia.co.uk



Appendix J
Thames Water Records

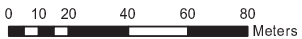


0 40 80 160 240 320
Meters

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified before any works are undertaken. Crown copyright Reserved

Scale: 1:6447
Width: 1801m
Printed By: VBALAKRI
Print Date: 06/01/2016
Map Centre: 513098,204281
Grid Reference: TL1304SW

Comments:



The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified before any works are undertaken. Crown copyright Reserved

Scale: 1:1789
Width: 500m
Printed By: VBALAKRI
Print Date: 06/01/2016
Map Centre: 513250,204250
Grid Reference: TL1304SW

Comments:

ALS/ALS Standard/2016_3226081

NB: Level quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates no Survey information is available.



















REFERENCE	COVER LEVEL	INVERT LEVEL
4050	83.17	80.91
401A		
411A		
4202	85.45	83.73
4101	83.98	82.38
4255	85.67	84.56
421A		
4201	86.05	84.78
431B		
4204	86.04	83.64
4254	87.15	85.74
4161		
4200	88.5	87
4259		
4158		
4157		
4002	85.86	84.8
3000	85.26	84.5
301C		
301A		
301D		
301E		
4151	83.23	81.31
311A		
4102	83.61	80.76
3101	84.18	81.18
3300	89.49	88.12
4401	90.24	89.5
441A		
3451	91.24	89.53
2451	93.25	91.95
2400	93.36	91.21
2450	95.19	94.13
2201	87.77	86.07
2203	87.04	86.2
2350	89.59	88.47
2352	88.49	87.15
3351	87.81	86.38
3200	87.35	85.93
3250	87.49	86.11
3254	87.18	85.73
321A		
3301	87.27	85.97
3100	84.82	83.22
4203	85.58	84.19
4300	86.76	84.81
4001		
40BB		
1000	85.55	83.79
2001	85.75	83.79
2003	85.45	84.15

REFERENCE	COVER LEVEL	INVERT LEVEL
4051		
4162		
4100	84.8	83.1
4253	84.89	83.49
4252	85.67	84.03
431A		
4206	85.43	83.46
4257	85.44	83.76
4205	85.51	83.6
4256	86	84.02
4159		
4152	85.34	83.49
4160		
4258		
4156		
201A		
3001	85.49	84.34
3002		
401B		
301B		
4000	83	80.68
411B		
311C		
311B		
3150	83.95	82.05
3303	88.92	87.6
3350	89.21	87.91
4400	90.63	90
3401	91.13	89.82
441B		
3450	92.26	91.02
3400	92.16	90.12
2300		
2202	87.26	86.23
2204	86.88	86.26
2351	88.93	88.06
2200	87.75	86
3252	86.98	85.52
3253	86.48	85.13
3251	87.31	85.59
3255	86.94	85.53
3352	86.84	85.64
3302	86.71	85.59
3201	85.91	84.5
4250	86.29	84.81
4251	86.57	84.77
40BC		
40BA		
1050	85.69	84.44
2002	85.81	83.94



ALS Sewer Map Key

Public Sewer Types (Operated & Maintained by Thames Water)

	Foul: A sewer designed to convey waste water from domestic and industrial sources to a treatment works.
	Surface Water: A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.
	Combined: A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.
	Trunk Surface Water
	Trunk Foul
	Storm Relief
	Trunk Combined
	Bio-solids (Sludge)
	Vent Pipe
	Proposed Thames Surface Water Sewer
	Proposed Thames Water Foul Sewer
	Gallery
	Foul Rising Main
	Surface Water Rising Main
	Combined Rising Main
	Sludge Rising Main
	Proposed Thames Water Rising Main
	Vacuum

Notes:

- 1) All levels associated with the plans are to Ordnance Datum Newlyn.
- 2) All measurements on the plans are metric.
- 3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.
- 4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.
- 5) 'na' or '0' on a manhole level indicates that data is unavailable.

Sewer Fittings

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

	Air Valve
	Dam Chase
	Fitting
	Meter
	Vent Column




Operational Controls

A feature in a sewer that changes or diverts the flow in the sewer. Example: A hydrobrake limits the flow passing downstream.

	Control Valve
	Drop Pipe
	Ancillary
	Weir

End Items










End symbols appear at the start or end of a sewer pipe. Examples: an Undefined End at the start of a sewer indicates that Thames Water has no knowledge of the position of the sewer upstream of that symbol. Outfall on a surface water sewer indicates that the pipe discharges into a stream or river.

	Outfall
	Undefined End
	Inlet








6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in millimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Insight on 0845 070 9148.

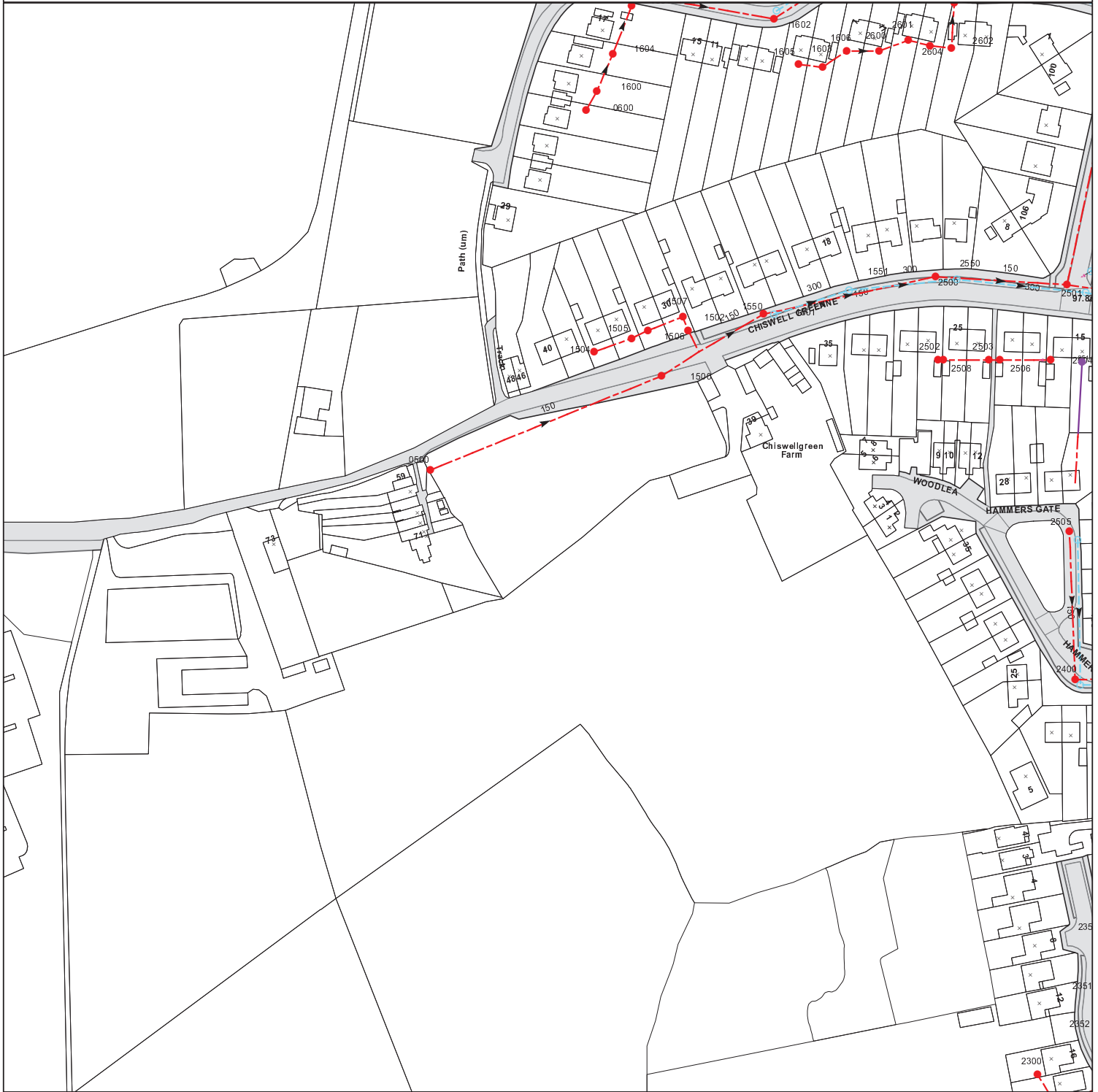
Other Symbols

Symbols used on maps which do not fall under other general categories

	Public/Private Pumping Station
	Change of characteristic indicator (C.O.C.I.)
	Invert Level
	Summit
Areas	Lines denoting areas of underground surveys, etc.
	Agreement
	Operational Site
	Chamber
	Tunnel
	Conduit Bridge

Other Sewer Types (Not Operated or Maintained by Thames Water)

	Foul Sewer		Surface Water Sewer
	Combined Sewer		Gully
	Culverted Watercourse		Proposed
			Abandoned Sewer



0 5 10 20 30 40
Meters

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified before any works are undertaken. Crown copyright Reserved

Scale: 1:1451
Width: 405m
Printed By: jgrosvenor
Print Date: 12/01/2016
Map Centre: 513085,204496
Grid Reference: TL1304SW

Comments:

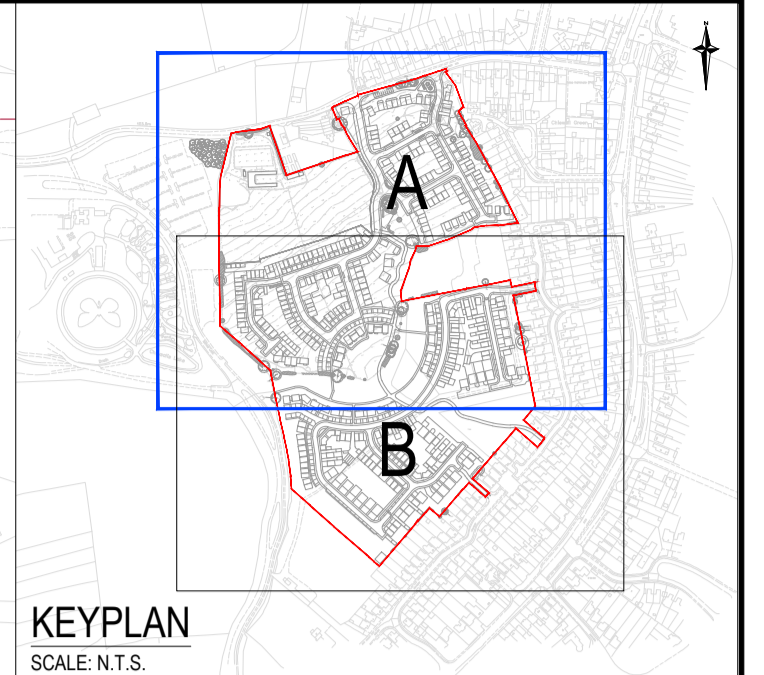
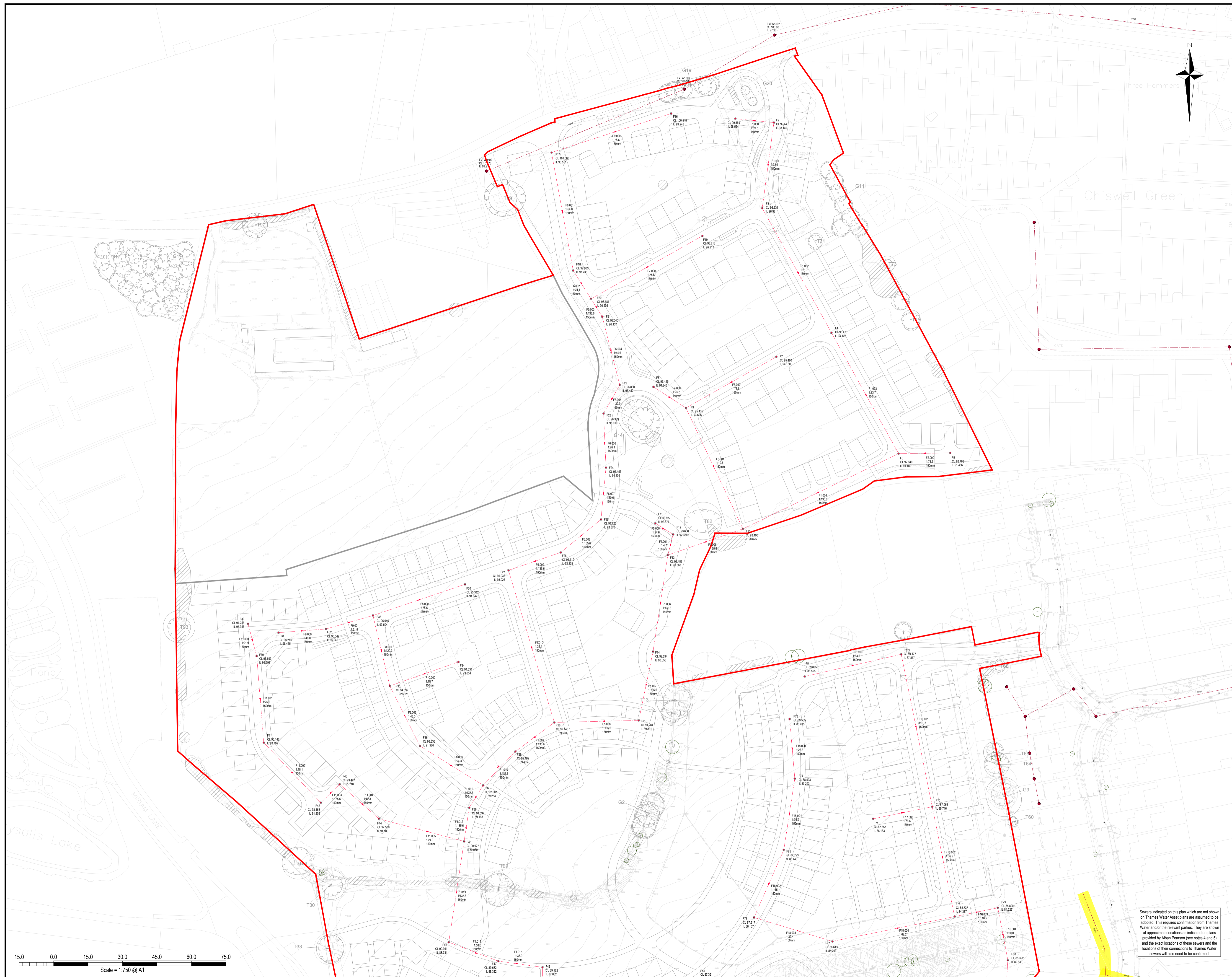
ALS/ALS Standard/2016_3226081

NB: Level quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates no Survey information is available.

REFERENCE	COVER LEVEL	INVERT LEVEL
2551	97.98	96.44
2550	99.72	98.27
2602	102.4	101.83
2400	93.36	91.21
2505	95.11	93.72
2504	97.56	96.66
2503	98.33	97.38
2508	98.71	97.83
0600		
1600	103.64	102.59
1505	101.72	100.27
1506	101.71	100.16
1507	101.64	99.94
1501	100.98	97.98
1550	100.71	99.41
1605	103.08	102.45
1606	102.8	102.2
2600	102.85	102
2604	102.71	101.89
0500	101.73	99.91

REFERENCE	COVER LEVEL	INVERT LEVEL
2501	98.09	96.39
2552	98.35	96.75
2451	93.25	91.95
2450	95.19	94.13
251A		
2502	98.77	97.87
2506	98.15	97.25
2300		
1504	101.73	100.48
1604	103.88	102.43
1601	104.13	102.32
1500	100.91	98.66
1502	101.38	99.71
1602	103.44	101.93
1650	103.46	101.96
1603	102.93	102.33
1551	100.49	98.99
2601		
2500	99.78	97.03

Appendix K
Proposed Foul Drainage Strategy



- Notes**
- This drawing is based on OS mapping and McBains Illustrative Masterplan (Job No. LHGR1965, Dwg No. REC201\ACBS-ZZ-DP-A-0210-05-F1, date: March 2022)
 - Dimensions not to be scaled.
 - Location and levels of existing foul water sewers have been obtained from Thames Water Asset Location plans (Ref: ALSALS Standards 2016, 3226051) and sketches provided by Alban Developments on 18.01.2016 and 27.01.2016. Their locations are approximate only and are not based on surveyed positions.
 - Outfalls A and B are taken from plans by Alban Pearson and shown at their approximate locations. The sewers will gravitate to these outfalls where appropriate based on the depths to invert level provided by Alban Developments.
 - All proposed foul water sewers and levels shown on this drawing are indicative only.
 - Foul effluent from the south-western corner of the site will be collected and pumped via a Foul Water Pumping Station towards the proposed foul water manhole located in the vicinity of the internal road junction to the north-east. The proposed foul rising main will be approximately 112m long. Incoming peak design flow and minimum storage capacity of the foul pumping station to be determined during a detailed design stage.
- Key**
- Site Boundary
 - Proposed Foul Water Sewer
 - Proposed Foul Rising Main
 - Existing Foul Water Sewer
 - Sewers not shown on Thames Water Asset plans which are assumed to be adopted (2011 Private Sewerage Transfer regulations)

P3	Minor amendments	31/03/2022	JB
P2	New Masterplan	30/03/2022	JB
Rev.	Description	Date	Chkd

Glanville
 Cornerstone House
 62 Foxhall Road, Didcot
 Oxon, OX11 7AD
 Tel: (01235) 515550 Fax: (01235) 817799
 postbox@glanvillegroup.com www.glanvillegroup.com

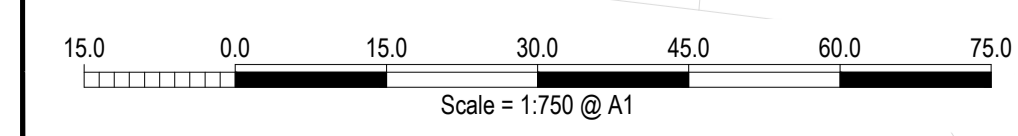
Client: Alban Developments, Alban Peter Pearson, CALA Homes (Chiltem) & Redington Capital

Project: Land south of Chiswell Green Lane

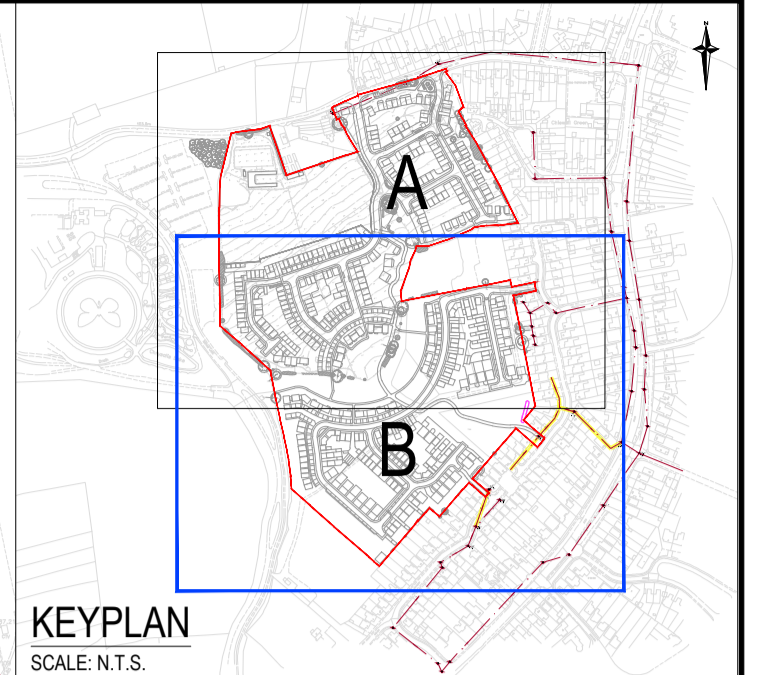
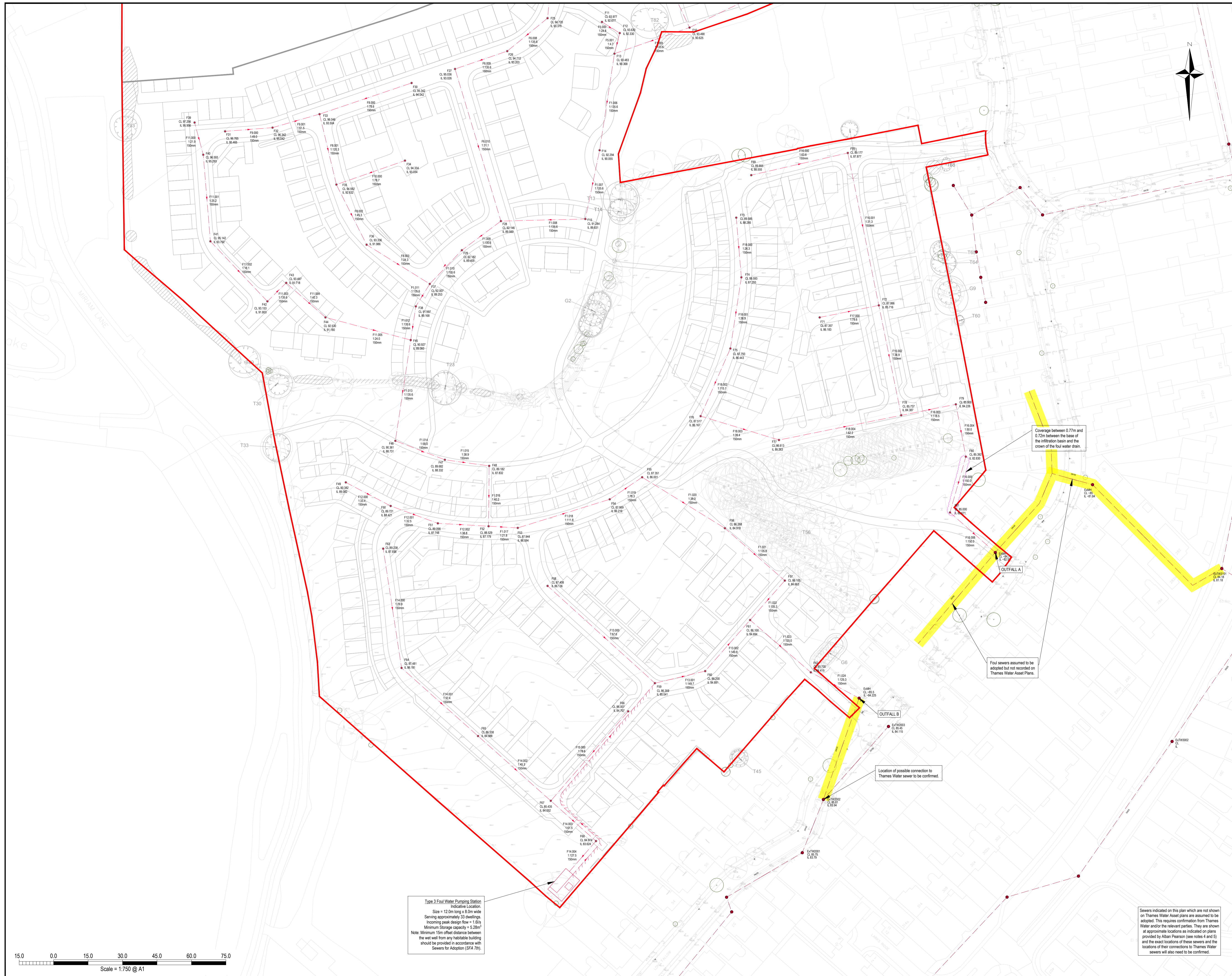
Title: Indicative Foul Water Drainage Strategy (North Catchment)

Project Engineer: A. Quigley Scale: 1:750@A1
 Project Director: J. Birch Date: March 2022
 Status: Planning

Drawing No. 8210856 - SK02/A Rev P3



Sewers indicated on this plan which are not shown on Thames Water Asset plans are assumed to be adopted. This requires confirmation from Thames Water and/or the relevant parties. They are shown at approximate locations as indicated on plans provided by Alban Pearson (see notes 4 and 5) and the exact locations of these sewers and the locations of their connectors to Thames Water sewers will also need to be confirmed.



- Notes**
- This drawing is based on OS mapping and McBeans Illustrative Masterplan (Job No. LHGR1905, Dwg No. REC2019ACB-ZZ-DR-A-0210-05-F1, date: March 2022).
 - Dimensions not to be scaled.
 - Location and levels of existing foul water sewers have been obtained from Thames Water Asset Location plans (Ref: AL54LS Standards/2016_3226081) and skidlers provided by Alban Developments on 18.01.2016 and 27.01.2016. Their locations are approximate only and are not based on surveyed positions.
 - Outfalls A and B are taken from plans by Alban Pearson and shown at their approximate locations. The sewers will gravitate to these outfalls where appropriate based on the depths to invert level provided by Alban Developments.
 - All proposed foul water sewers and levels shown on this drawing are indicative only.
 - Foul effluent from the south-western corner of the site will be collected and pumped via a Foul Water Pumping Station towards the proposed foul water manhole located in the vicinity of the internal road junction to the north-east. The proposed foul rising main will be approximately 112m long. Incoming peak design flow and minimum storage capacity of the foul pumping station to be determined during a detailed design stage.
- Key**
- Site Boundary
 - Proposed Foul Water Sewer
 - Proposed Foul Rising Main
 - Existing Foul Water Sewer
 - Sewers not shown on Thames Water Asset plans which are assumed to be adopted (2011 Private Sewage Transfer regulations)

Type 3 Foul Water Pumping Station
 Indicative Location.
 Size = 12.0m long x 8.0m wide
 Serving approximately 33 dwellings
 Incoming peak design flow = 1.6l/s
 Minimum Storage capacity = 5.28m³
 Note: Minimum 15m offset distance between the well from any habitable building should be provided in accordance with Sewers for Adoption (SFA 79).

Coverage between 0.77m and 0.72m between the base of the infiltration basin and the crown of the foul water drain.

Foul sewers assumed to be adopted but not recorded on Thames Water Asset Plans.

Location of possible connection to Thames Water sewer to be confirmed.

P3	Minor amendments	31/03/2022	JB
P2	New Masterplan	30/03/2022	JB
Rev.	Description	Date	Chkd

Glanville
 Cornerstone House
 62 Foxhall Road, Didcot
 Oxon, OX11 7AD
 Tel: (01235) 515550 Fax: (01235) 817799
 postbox@glanvillegroup.com www.glanvillegroup.com

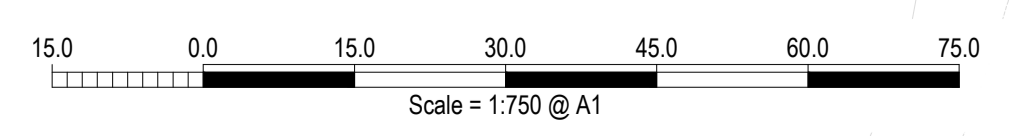
Client: Alban Developments, Alban Peter Pearson, CALA Homes (Chiltem) & Redington Capital

Project: Land south of Chiswell Green Lane

Title: Indicative Foul Water Drainage Strategy (South Catchment)


Project Engineer: A. Quigley Scale: 1:750@A1
 Project Director: J. Birch Date: March 2022
 Status: Planning

Drawing No. 8210856 - SK02/B Rev P3



Sewers indicated on this plan which are not shown on Thames Water Asset plans are assumed to be adopted. This requires confirmation from Thames Water and/or the relevant parties. They are shown at approximate locations as indicated on plans provided by Alban Pearson (see notes 4 and 5) and the exact locations of these sewers and the locations of their connections to Thames Water sewers will also need to be confirmed.

Appendix L
MicroDrainage Results

Glanville Consultants		Page 1
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	

FOUL SEWERAGE DESIGN








Design Criteria for Foul - Main

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)	0.00	Add Flow / Climate Change (%)	0
Industrial Peak Flow Factor	0.00	Minimum Backdrop Height (m)	0.200
Flow Per Person (l/per/day)	164.00	Maximum Backdrop Height (m)	1.500
Persons per House	5.00	Min Design Depth for Optimisation (m)	1.200
Domestic (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.75
Domestic Peak Flow Factor	5.00	Min Slope for Optimisation (1:X)	500


Designed with Level Soffits

Network Design Table for Foul - Main














PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F1.000	16.847	0.424	39.7	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F1.001	37.571	1.159	32.4	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
F1.002	62.006	2.853	21.7	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
F1.003	60.147	2.538	23.7	0.000	9	0.0	1.500	o	150	Pipe/Conduit	
F2.000	22.475	0.286	78.6	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
F1.004	75.240	0.555	135.6	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F3.000	45.203	0.575	78.6	0.000	7	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F1.000	98.564	0.000	0.0	2	0.0	7	0.31	1.39	24.6	0.1
F1.001	98.140	0.000	0.0	8	0.0	13	0.53	1.54	27.3	0.4
F1.002	96.981	0.000	0.0	20	0.0	18	0.81	1.88	33.3	0.9
F1.003	94.128	0.000	0.0	29	0.0	21	0.89	1.80	31.9	1.4
F2.000	91.466	0.000	0.0	3	0.0	10	0.28	0.99	17.5	0.1
F1.004	91.180	0.000	0.0	37	0.0	37	0.52	0.75	13.3	1.8
F3.000	94.180	0.000	0.0	7	0.0	15	0.37	0.99	17.5	0.3


Glanville Consultants		Page 2
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	

Network Design Table for Foul - Main















PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F4.000	16.828	0.710	23.7	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F3.001	58.160	2.980	19.5	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F1.005	34.870	0.257	135.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F5.000	8.613	0.347	24.8	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F5.001	9.194	1.962	4.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.006	42.455	0.313	135.6	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
F1.007	30.350	0.224	135.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.008	36.769	0.271	135.6	0.000	9	0.0	1.500	o	150	Pipe/Conduit	
F6.000	54.761	0.697	78.6	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
F6.001	52.212	0.816	64.0	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
F6.002	14.558	0.604	24.1	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
F7.000	55.647	0.708	78.6	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
F6.003	9.182	0.068	135.6	0.000	1	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F4.000	94.845	0.000	0.0	5	0.0	10	0.50	1.80	31.9	0.2
F3.001	93.605	0.000	0.0	17	0.0	16	0.80	1.99	35.2	0.8
F1.005	90.625	0.000	0.0	54	0.0	45	0.58	0.75	13.3	2.6
F5.000	92.677	0.000	0.0	2	0.0	6	0.37	1.76	31.2	0.1
F5.001	92.330	0.000	0.0	2	0.0	4	0.63	4.07	71.8	0.1
F1.006	90.368	0.000	0.0	60	0.0	47	0.60	0.75	13.3	2.8
F1.007	90.055	0.000	0.0	60	0.0	47	0.60	0.75	13.3	2.8
F1.008	89.831	0.000	0.0	69	0.0	51	0.62	0.75	13.3	3.3
F6.000	99.248	0.000	0.0	6	0.0	14	0.35	0.99	17.5	0.3
F6.001	98.551	0.000	0.0	9	0.0	16	0.43	1.10	19.4	0.4
F6.002	97.735	0.000	0.0	10	0.0	13	0.63	1.79	31.6	0.5
F7.000	96.913	0.000	0.0	8	0.0	16	0.39	0.99	17.5	0.4
F6.003	96.205	0.000	0.0	19	0.0	27	0.42	0.75	13.3	0.9


Glanville Consultants		Page 3
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	

Network Design Table for Foul - Main

















PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F6.004	30.656	0.687	44.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F6.005	14.166	0.431	32.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F6.006	23.824	0.913	26.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F6.007	22.514	0.736	30.6	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
F6.008	22.669	0.167	135.6	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F6.009	24.004	0.177	135.6	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F6.010	69.325	2.230	31.1	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
F1.009	20.962	0.155	135.6	0.000	11	0.0	1.500	o	150	Pipe/Conduit	
F1.010	20.598	0.152	135.6	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F8.000	42.289	0.538	78.6	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
F9.000	20.716	0.423	49.0	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
F9.001	21.283	0.346	61.5	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
F8.001	31.509	0.262	120.3	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F10.000	31.620	0.402	78.7	0.000	8	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
F6.004	96.137	0.000	0.0	19	0.0	20	0.62	1.31	23.2	0.9
F6.005	95.450	0.000	0.0	19	0.0	19	0.69	1.53	27.1	0.9
F6.006	95.019	0.000	0.0	19	0.0	18	0.75	1.72	30.4	0.9
F6.007	94.106	0.000	0.0	20	0.0	19	0.72	1.59	28.1	0.9
F6.008	93.370	0.000	0.0	22	0.0	29	0.44	0.75	13.3	1.0
F6.009	93.203	0.000	0.0	27	0.0	32	0.47	0.75	13.3	1.3
F6.010	93.026	0.000	0.0	38	0.0	26	0.88	1.57	27.8	1.8
F1.009	89.560	0.000	0.0	118	0.0	68	0.72	0.75	13.3	5.6
F1.010	89.405	0.000	0.0	120	0.0	69	0.72	0.75	13.3	5.7
F8.000	94.042	0.000	0.0	7	0.0	15	0.37	0.99	17.5	0.3
F9.000	95.465	0.000	0.0	4	0.0	10	0.37	1.25	22.2	0.2
F9.001	95.042	0.000	0.0	7	0.0	14	0.41	1.12	19.8	0.3
F8.001	93.504	0.000	0.0	19	0.0	26	0.44	0.80	14.1	0.9
F10.000	93.034	0.000	0.0	8	0.0	16	0.39	0.99	17.5	0.4


Glanville Consultants		Page 4
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	

Network Design Table for Foul - Main
















PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F8.002	29.279	0.646	45.3	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
F8.003	32.345	1.329	24.3	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
F1.011	11.557	0.085	135.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.012	14.651	0.108	135.6	0.000	9	0.0	1.500	o	150	Pipe/Conduit	
F11.000	14.509	0.663	21.9	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
F11.001	37.807	1.501	25.2	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
F11.002	36.028	1.989	18.1	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
F11.003	11.579	0.085	135.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F11.004	22.748	0.538	42.3	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F11.005	38.453	1.603	24.0	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
F1.013	44.611	0.329	135.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.014	23.134	0.399	58.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.015	19.446	0.500	38.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.016	26.282	0.653	40.2	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F12.000	22.068	0.661	33.4	0.000	15	0.0	1.500	o	150	Pipe/Conduit	
F12.001	21.870	0.673	32.5	0.000	7	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F8.002	92.632	0.000	0.0	35	0.0	27	0.75	1.30	1.7
F8.003	91.986	0.000	0.0	41	0.0	25	0.98	1.78	1.9
F1.011	89.253	0.000	0.0	161	0.0	82	0.78	0.75	7.6
F1.012	89.168	0.000	0.0	170	0.0	84	0.79	0.75	8.1
F11.000	95.956	0.000	0.0	7	0.0	11	0.58	1.88	0.3
F11.001	95.293	0.000	0.0	14	0.0	15	0.69	1.75	0.7
F11.002	93.792	0.000	0.0	20	0.0	17	0.87	2.07	0.9
F11.003	91.803	0.000	0.0	20	0.0	27	0.43	0.75	0.9
F11.004	91.718	0.000	0.0	20	0.0	21	0.64	1.35	0.9
F11.005	91.180	0.000	0.0	32	0.0	23	0.91	1.79	1.5
F1.013	89.060	0.000	0.0	202	0.0	94	0.82	0.75	9.6
F1.014	88.731	0.000	0.0	202	0.0	72	1.13	1.15	9.6
F1.015	88.332	0.000	0.0	202	0.0	65	1.32	1.41	9.6
F1.016	87.832	0.000	0.0	202	0.0	65	1.30	1.38	9.6
F12.000	89.082	0.000	0.0	15	0.0	17	0.64	1.52	0.7
F12.001	88.421	0.000	0.0	22	0.0	20	0.73	1.54	1.0


Glanville Consultants		Page 5
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	

Network Design Table for Foul - Main















PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F12.002	22.088	0.569	38.8	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
F1.017	12.760	0.585	21.8	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
F1.018	41.908	0.375	111.8	0.000	10	0.0	1.500	o	150	Pipe/Conduit	
F1.019	17.073	0.218	78.3	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F1.020	42.290	1.083	39.0	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F1.021	34.635	0.255	135.8	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
F1.022	22.861	0.169	135.3	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
F13.000	63.104	1.095	57.6	0.000	17	0.0	1.500	o	150	Pipe/Conduit	
F13.001	22.453	0.150	149.7	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
F13.002	29.504	0.197	149.8	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F1.023	34.863	0.279	125.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.024	23.810	0.190	125.3	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F14.000	52.497	1.757	29.9	0.000	18	0.0	1.500	o	150	Pipe/Conduit	
F14.001	44.567	1.193	37.4	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
F14.002	42.395	0.903	46.9	0.000	3	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F12.002	87.748	0.000	0.0	30	0.0	25	0.75	1.41	24.9	1.4
F1.017	87.179	0.000	0.0	240	0.0	61	1.70	1.88	33.2	11.4
F1.018	86.594	0.000	0.0	250	0.0	102	0.92	0.83	14.6	11.9
F1.019	86.219	0.000	0.0	252	0.0	91	1.07	0.99	17.5	12.0
F1.020	86.001	0.000	0.0	254	0.0	74	1.39	1.40	24.8	12.1
F1.021	84.918	0.000	0.0	257	0.0	113	0.85	0.75	13.3	12.2
F1.022	84.663	0.000	0.0	261	0.0	115	0.86	0.75	13.3	12.4
F13.000	86.136	0.000	0.0	17	0.0	21	0.55	1.16	20.4	0.8
F13.001	85.041	0.000	0.0	25	0.0	31	0.44	0.71	12.6	1.2
F13.002	84.891	0.000	0.0	30	0.0	34	0.47	0.71	12.6	1.4
F1.023	84.694	0.000	0.0	291	0.0	123	0.89	0.78	13.8	13.8
F1.024	84.415	0.000	0.0	291	0.0	123	0.89	0.78	13.8	13.8
F14.000	87.938	0.000	0.0	18	0.0	18	0.70	1.61	28.4	0.9
F14.001	86.181	0.000	0.0	21	0.0	21	0.68	1.44	25.4	1.0
F14.002	84.988	0.000	0.0	24	0.0	23	0.66	1.28	22.6	1.1


Glanville Consultants		Page 6
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	

Network Design Table for Foul - Main



PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F15.000	51.468	0.655	78.6	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
F14.003	26.325	0.428	61.5	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F14.004	17.593	0.138	127.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F16.000	43.126	0.678	63.6	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
F16.001	67.630	2.161	31.3	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
F17.000	26.248	0.334	78.6	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F16.002	48.980	1.329	36.9	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
F18.000	26.060	0.992	26.3	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
F18.001	31.327	0.850	36.9	0.000	17	0.0	1.500	o	150	Pipe/Conduit	
F18.002	31.754	0.276	115.1	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
F18.003	35.618	0.904	39.4	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
F18.004	54.523	0.876	62.2	0.000	8	0.0	1.500	o	150	Pipe/Conduit	
F16.003	19.071	0.161	118.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F16.004	23.154	0.463	50.0	0.000	1	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F15.000	84.707	0.000	0.0	7	0.0	15	0.37	0.99	17.5	0.3
F14.003	84.052	0.000	0.0	33	0.0	29	0.66	1.12	19.8	1.6
F14.004	83.624	0.000	0.0	33	0.0	34	0.51	0.78	13.7	1.6
F16.000	88.555	0.000	0.0	3	0.0	9	0.30	1.10	19.4	0.1
F16.001	87.877	0.000	0.0	15	0.0	17	0.66	1.57	27.7	0.7
F17.000	86.183	0.000	0.0	2	0.0	8	0.25	0.99	17.5	0.1
F16.002	85.716	0.000	0.0	24	0.0	22	0.72	1.45	25.6	1.1
F18.000	88.285	0.000	0.0	8	0.0	12	0.57	1.71	30.3	0.4
F18.001	87.293	0.000	0.0	25	0.0	22	0.73	1.45	25.6	1.2
F18.002	86.443	0.000	0.0	33	0.0	34	0.53	0.82	14.4	1.6
F18.003	86.167	0.000	0.0	34	0.0	26	0.78	1.40	24.7	1.6
F18.004	85.263	0.000	0.0	42	0.0	32	0.71	1.11	19.6	2.0
F16.003	84.387	0.000	0.0	66	0.0	48	0.64	0.80	14.2	3.1
F16.004	84.226	0.000	0.0	67	0.0	39	0.88	1.24	21.9	3.2


Glanville Consultants		Page 7
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	

Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F16.005	23.786	0.159	149.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F16.006	25.559	0.170	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse (l/s)	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F16.005	82.830	0.000	0.0	67	0.0	51	0.59	0.72	12.6	3.2
F16.006	82.671	0.000	0.0	67	0.0	51	0.59	0.71	12.6	3.2

Glanville Consultants		Page 8
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	


PIPELINE SCHEDULES for Foul - Main

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
F1.000	o	150	F1	99.864	98.564	1.150	Open Manhole		600
F1.001	o	150	F2	99.440	98.140	1.150	Open Manhole		600
F1.002	o	150	F3	98.331	96.981	1.200	Open Manhole		600
F1.003	o	150	F4	95.478	94.128	1.200	Open Manhole		600
F2.000	o	150	F5	92.766	91.466	1.150	Open Manhole		600
F1.004	o	150	F6	92.940	91.180	1.610	Open Manhole		600
F3.000	o	150	F7	95.480	94.180	1.150	Open Manhole		600
F4.000	o	150	F8	96.145	94.845	1.150	Open Manhole		600
F3.001	o	150	F9	95.435	93.605	1.680	Open Manhole		600
F1.005	o	150	F10	93.490	90.625	2.715	Open Manhole		600
F5.000	o	150	F11	93.977	92.677	1.150	Open Manhole		600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
F1.000	16.847	39.7	F2	99.440	98.140	1.150	Open Manhole		600
F1.001	37.571	32.4	F3	98.331	96.981	1.200	Open Manhole		600
F1.002	62.006	21.7	F4	95.478	94.128	1.200	Open Manhole		600
F1.003	60.147	23.7	F6	92.940	91.590	1.200	Open Manhole		600
F2.000	22.475	78.6	F6	92.940	91.180	1.610	Open Manhole		600
F1.004	75.240	135.6	F10	93.490	90.625	2.715	Open Manhole		600
F3.000	45.203	78.6	F9	95.435	93.605	1.680	Open Manhole		600
F4.000	16.828	23.7	F9	95.435	94.135	1.150	Open Manhole		600
F3.001	58.160	19.5	F10	93.490	90.625	2.715	Open Manhole		600
F1.005	34.870	135.6	F13	93.483	90.368	2.965	Open Manhole		600
F5.000	8.613	24.8	F12	93.630	92.330	1.150	Open Manhole		600

Glanville Consultants		Page 9
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	


PIPELINE SCHEDULES for Foul - Main

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
F5.001	o	150	F12	93.630	92.330	1.150	Open Manhole		600
F1.006	o	150	F13	93.483	90.368	2.965	Open Manhole		600
F1.007	o	150	F14	92.294	90.055	2.089	Open Manhole		600
F1.008	o	150	F15	91.284	89.831	1.303	Open Manhole		600
F6.000	o	150	F16	100.548	99.248	1.150	Open Manhole		600
F6.001	o	150	F17	101.086	98.551	2.385	Open Manhole		600
F6.002	o	150	F18	99.085	97.735	1.200	Open Manhole		600
F7.000	o	150	F19	98.213	96.913	1.150	Open Manhole		600
F6.003	o	150	F20	98.481	96.205	2.126	Open Manhole		600
F6.004	o	150	F21	98.040	96.137	1.753	Open Manhole		600
F6.005	o	150	F22	96.800	95.450	1.200	Open Manhole		600
F6.006	o	150	F23	96.369	95.019	1.200	Open Manhole		600
F6.007	o	150	F24	95.456	94.106	1.200	Open Manhole		600
F6.008	o	150	F25	94.720	93.370	1.200	Open Manhole		600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
F5.001	9.194	4.7	F13	93.483	90.368	2.965	Open Manhole		600
F1.006	42.455	135.6	F14	92.294	90.055	2.089	Open Manhole		600
F1.007	30.350	135.6	F15	91.284	89.831	1.303	Open Manhole		600
F1.008	36.769	135.6	F28	92.146	89.560	2.436	Open Manhole		600
F6.000	54.761	78.6	F17	101.086	98.551	2.385	Open Manhole		600
F6.001	52.212	64.0	F18	99.085	97.735	1.200	Open Manhole		600
F6.002	14.558	24.1	F20	98.481	97.131	1.200	Open Manhole		600
F7.000	55.647	78.6	F20	98.481	96.205	2.126	Open Manhole		600
F6.003	9.182	135.6	F21	98.040	96.137	1.753	Open Manhole		600
F6.004	30.656	44.6	F22	96.800	95.450	1.200	Open Manhole		600
F6.005	14.166	32.9	F23	96.369	95.019	1.200	Open Manhole		600
F6.006	23.824	26.1	F24	95.456	94.106	1.200	Open Manhole		600
F6.007	22.514	30.6	F25	94.720	93.370	1.200	Open Manhole		600
F6.008	22.669	135.6	F26	94.712	93.203	1.359	Open Manhole		600

Glanville Consultants		Page 10
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	


PIPELINE SCHEDULES for Foul - Main

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F6.009	o	150	F26	94.712	93.203	1.359	Open Manhole	600
F6.010	o	150	F27	95.036	93.026	1.860	Open Manhole	600
F1.009	o	150	F28	92.146	89.560	2.436	Open Manhole	600
F1.010	o	150	F29	92.182	89.405	2.627	Open Manhole	600
F8.000	o	150	F30	95.342	94.042	1.150	Open Manhole	600
F9.000	o	150	F31	96.765	95.465	1.150	Open Manhole	600
F9.001	o	150	F32	96.342	95.042	1.150	Open Manhole	600
F8.001	o	150	F33	96.046	93.504	2.392	Open Manhole	600
F10.000	o	150	F34	94.334	93.034	1.150	Open Manhole	600
F8.002	o	150	F35	94.592	92.632	1.810	Open Manhole	600
F8.003	o	150	F36	93.336	91.986	1.200	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F6.009	24.004	135.6	F27	95.036	93.026	1.860	Open Manhole	600
F6.010	69.325	31.1	F28	92.146	90.796	1.200	Open Manhole	600
F1.009	20.962	135.6	F29	92.182	89.405	2.627	Open Manhole	600
F1.010	20.598	135.6	F37	92.007	89.253	2.604	Open Manhole	600
F8.000	42.289	78.6	F33	96.046	93.504	2.392	Open Manhole	600
F9.000	20.716	49.0	F32	96.342	95.042	1.150	Open Manhole	600
F9.001	21.283	61.5	F33	96.046	94.696	1.200	Open Manhole	600
F8.001	31.509	120.3	F35	94.592	93.242	1.200	Open Manhole	600
F10.000	31.620	78.7	F35	94.592	92.632	1.810	Open Manhole	600
F8.002	29.279	45.3	F36	93.336	91.986	1.200	Open Manhole	600
F8.003	32.345	24.3	F37	92.007	90.657	1.200	Open Manhole	600

Glanville Consultants		Page 11
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	


PIPELINE SCHEDULES for Foul - Main

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F1.011	o	150	F37	92.007	89.253	2.604	Open Manhole	600
F1.012	o	150	F38	91.597	89.168	2.279	Open Manhole	600
F11.000	o	150	F39	97.256	95.956	1.150	Open Manhole	600
F11.001	o	150	F40	96.593	95.293	1.150	Open Manhole	600
F11.002	o	150	F41	95.142	93.792	1.200	Open Manhole	600
F11.003	o	150	F42	93.153	91.803	1.200	Open Manhole	600
F11.004	o	150	F43	93.497	91.718	1.629	Open Manhole	600
F11.005	o	150	F44	92.530	91.180	1.200	Open Manhole	600
F1.013	o	150	F45	90.927	89.060	1.717	Open Manhole	600
F1.014	o	150	F46	90.361	88.731	1.480	Open Manhole	600
F1.015	o	150	F47	89.682	88.332	1.200	Open Manhole	600
F1.016	o	150	F48	89.182	87.832	1.200	Open Manhole	600
F12.000	o	150	F49	90.382	89.082	1.150	Open Manhole	600
F12.001	o	150	F50	89.721	88.421	1.150	Open Manhole	600
F12.002	o	150	F51	89.098	87.748	1.200	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F1.011	11.557	135.6	F38	91.597	89.168	2.279	Open Manhole	600
F1.012	14.651	135.6	F45	90.927	89.060	1.717	Open Manhole	600
F11.000	14.509	21.9	F40	96.593	95.293	1.150	Open Manhole	600
F11.001	37.807	25.2	F41	95.142	93.792	1.200	Open Manhole	600
F11.002	36.028	18.1	F42	93.153	91.803	1.200	Open Manhole	600
F11.003	11.579	135.6	F43	93.497	91.718	1.629	Open Manhole	600
F11.004	22.748	42.3	F44	92.530	91.180	1.200	Open Manhole	600
F11.005	38.453	24.0	F45	90.927	89.577	1.200	Open Manhole	600
F1.013	44.611	135.6	F46	90.361	88.731	1.480	Open Manhole	600
F1.014	23.134	58.0	F47	89.682	88.332	1.200	Open Manhole	600
F1.015	19.446	38.9	F48	89.182	87.832	1.200	Open Manhole	600
F1.016	26.282	40.2	F52	88.529	87.179	1.200	Open Manhole	600
F12.000	22.068	33.4	F50	89.721	88.421	1.150	Open Manhole	600
F12.001	21.870	32.5	F51	89.098	87.748	1.200	Open Manhole	600
F12.002	22.088	38.8	F52	88.529	87.179	1.200	Open Manhole	600

Glanville Consultants		Page 12
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	


PIPELINE SCHEDULES for Foul - Main

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F1.017	o	150	F52	88.529	87.179	1.200	Open Manhole	600
F1.018	o	150	F53	87.944	86.594	1.200	Open Manhole	600
F1.019	o	150	F54	87.569	86.219	1.200	Open Manhole	600
F1.020	o	150	F55	87.351	86.001	1.200	Open Manhole	600
F1.021	o	150	F56	86.268	84.918	1.200	Open Manhole	600
F1.022	o	150	F57	86.100	84.663	1.287	Open Manhole	600
F13.000	o	150	F58	87.408	86.136	1.122	Open Manhole	600
F13.001	o	150	F59	86.359	85.041	1.168	Open Manhole	600
F13.002	o	150	F60	86.200	84.891	1.159	Open Manhole	600
F1.023	o	150	F61	86.100	84.694	1.256	Open Manhole	600
F1.024	o	150	F62	85.700	84.415	1.135	Open Manhole	600
F14.000	o	150	F63	89.238	87.938	1.150	Open Manhole	600
F14.001	o	150	F64	87.481	86.181	1.150	Open Manhole	600
F14.002	o	150	F65	86.338	84.988	1.200	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F1.017	12.760	21.8	F53	87.944	86.594	1.200	Open Manhole	600
F1.018	41.908	111.8	F54	87.569	86.219	1.200	Open Manhole	600
F1.019	17.073	78.3	F55	87.351	86.001	1.200	Open Manhole	600
F1.020	42.290	39.0	F56	86.268	84.918	1.200	Open Manhole	600
F1.021	34.635	135.8	F57	86.100	84.663	1.287	Open Manhole	600
F1.022	22.861	135.3	F61	86.100	84.494	1.456	Open Manhole	600
F13.000	63.104	57.6	F59	86.359	85.041	1.168	Open Manhole	600
F13.001	22.453	149.7	F60	86.200	84.891	1.159	Open Manhole	600
F13.002	29.504	149.8	F61	86.100	84.694	1.256	Open Manhole	600
F1.023	34.863	125.0	F62	85.700	84.415	1.135	Open Manhole	600
F1.024	23.810	125.3	F	85.500	84.225	1.125	Open Manhole	0
F14.000	52.497	29.9	F64	87.481	86.181	1.150	Open Manhole	600
F14.001	44.567	37.4	F65	86.338	84.988	1.200	Open Manhole	600
F14.002	42.395	46.9	F67	85.435	84.085	1.200	Open Manhole	600

Glanville Consultants		Page 13
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	


PIPELINE SCHEDULES for Foul - Main

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F15.000	o	150	F66	86.007	84.707	1.150	Open Manhole	600
F14.003	o	150	F67	85.435	84.052	1.233	Open Manhole	600
F14.004	o	150	F68	84.974	83.624	1.200	Open Manhole	600
F16.000	o	150	F69	89.855	88.555	1.150	Open Manhole	600
F16.001	o	150	F70	89.177	87.877	1.150	Open Manhole	600
F17.000	o	150	F71	87.357	86.183	1.024	Open Manhole	600
F16.002	o	150	F72	87.066	85.716	1.200	Open Manhole	600
F18.000	o	150	F73	89.585	88.285	1.150	Open Manhole	600
F18.001	o	150	F74	88.593	87.293	1.150	Open Manhole	600
F18.002	o	150	F75	87.793	86.443	1.200	Open Manhole	600
F18.003	o	150	F76	87.517	86.167	1.200	Open Manhole	600
F18.004	o	150	F77	86.613	85.263	1.200	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F15.000	51.468	78.6	F67	85.435	84.052	1.233	Open Manhole	600
F14.003	26.325	61.5	F68	84.974	83.624	1.200	Open Manhole	600
F14.004	17.593	127.5	F	84.836	83.486	1.200	Open Manhole	0
F16.000	43.126	63.6	F70	89.177	87.877	1.150	Open Manhole	600
F16.001	67.630	31.3	F72	87.066	85.716	1.200	Open Manhole	600
F17.000	26.248	78.6	F72	87.066	85.849	1.067	Open Manhole	600
F16.002	48.980	36.9	F78	85.737	84.387	1.200	Open Manhole	600
F18.000	26.060	26.3	F74	88.593	87.293	1.150	Open Manhole	600
F18.001	31.327	36.9	F75	87.793	86.443	1.200	Open Manhole	600
F18.002	31.754	115.1	F76	87.517	86.167	1.200	Open Manhole	600
F18.003	35.618	39.4	F77	86.613	85.263	1.200	Open Manhole	600
F18.004	54.523	62.2	F78	85.737	84.387	1.200	Open Manhole	600

Glanville Consultants		Page 14
Cornerstone Court 62 Foxhall Road Didcot OX11 7AD	8210856 Land south of Chiswell Green L Foul Water Drainage System	
Date 31/03/2022 15:01 File Total Drainage System_FW...	Designed by A.Quigley Checked by J.Birch	
Micro Drainage	Network 2018.1.1	

PIPELINE SCHEDULES for Foul - Main

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F16.003	o	150	F78	85.737	84.387	1.200	Open Manhole	600
F16.004	o	150	F79	85.800	84.226	1.424	Open Manhole	600
F16.005	o	150	F80	85.392	82.830	2.412	Open Manhole	600
F16.006	o	150	F81	85.000	82.671	2.179	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F16.003	19.071	118.5	F79	85.800	84.226	1.424	Open Manhole	600
F16.004	23.154	50.0	F80	85.392	83.763	1.479	Open Manhole	600
F16.005	23.786	149.6	F81	85.000	82.671	2.179	Open Manhole	600
F16.006	25.559	150.0	F	84.750	82.501	2.099	Open Manhole	0

Free Flowing Outfall Details for Foul - Main

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
F1.024	F	85.500	84.225	84.225	0	0

Free Flowing Outfall Details for Foul - Main

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
F14.004	F	84.836	83.486	83.481	0	0

Free Flowing Outfall Details for Foul - Main

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
F16.006	F	84.750	82.501	82.500	0	0



Cornerstone House, 62 Foxhall Road
Didcot, Oxfordshire OX11 7AD

01235 515550
postbox@glanvillegroup.com
www.glanvillegroup.com

- Structural Engineering
- Transport and Highways
- Civil Engineering
- Geomatics
- Building Surveying