

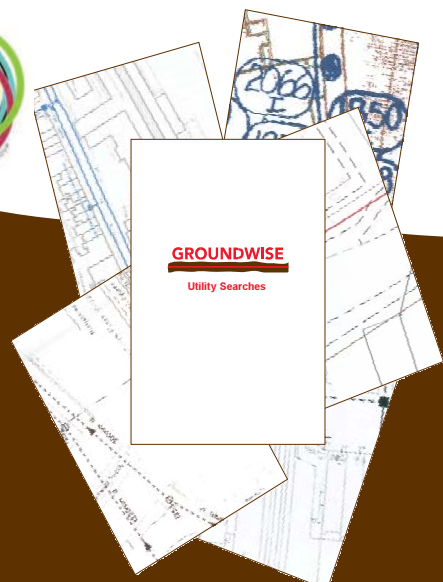
GROUNDWISE

Groundwise Searches Ltd



Groundwise Searches Limited
Suite 6, Princess Caroline House
1 High Street
Southend-on-Sea
Essex, SS1 1JE
Telephone 01702 615566
Email mail@groundwise.com
Website www.groundwise.com

*Registered Office Address:
Matrix House, 12-16 Lionel Road,
Canvey Island, Essex, England, SS8 9DE*



GROUNDWISE

Groundwise Searches Ltd

Product Desktop Utility Search

Scope PAS 128 – Level D

Groundwise Reference 28617FM

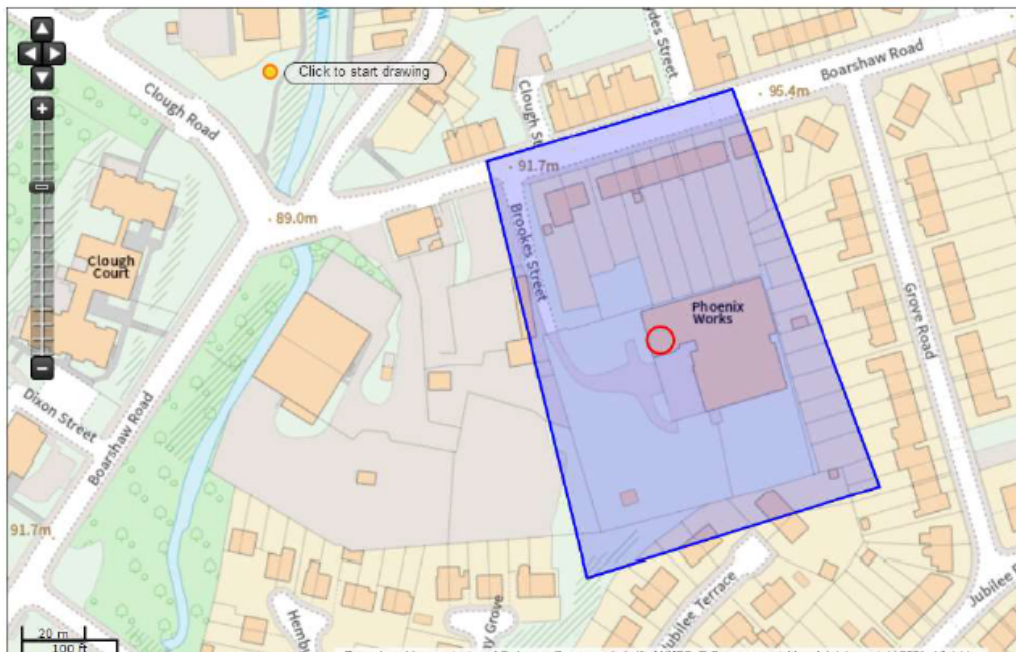
Site Phoenix Works, Brookes St, Middleton, Manchester, M24 2WL

Client David Godfrey

Company

Client Reference Phoenix Works

Purchase Order



Researcher

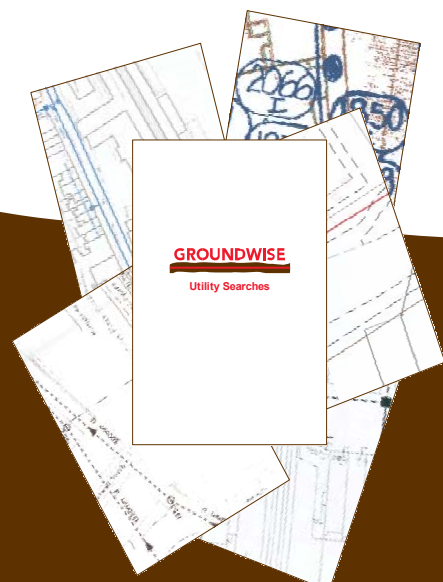
Fran Margiotta
fmargiotta@groundwise.com

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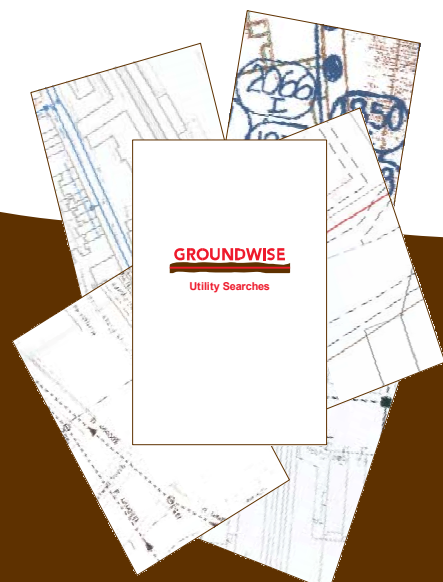
Version	Date Issued	Notes
#1	25/08/2021	First batch of received utility data issued – outstanding results to be sent on receipt
#2	31/08/2021	C.A. Telecom-Colt result added to report.
#3	08/09/2021	Local council (street lighting) enquiry closed - report complete.

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Groundwise Reference 28617FM

Site Phoenix Works, Brookes St, Middleton, Manchester, M24 2WL

Click on a Data Supplier to view their response

Type	Data Supplier	Date Sent	Assets in Area
Electricity	ENWL	25/08	X
Electricity	Eclipse Power	25/08	
Electricity	Utility Assets Ltd	25/08	
Gas/Electric	GTC	25/08	X
Gas	Cadent	25/08	X
Mobile Phone Masts	Mast Data	25/08	X
Telecom	BskyB Telecommunications Services Ltd	25/08	
Telecom	BT	25/08	X
Telecom	C.A. Telecom - Colt	31/08	
Telecom	CityFibre	25/08	
Telecom	Instalcom Ltd	25/08	
Telecom	KCOM	25/08	
Telecom	MBNL	25/08	
Telecom	Trafficmaster	25/08	
Telecom	Verizon	25/08	
Telecom	Virgin Media	25/08	X
Telecom	Vodafone	25/08	
Transport	Network Rail	25/08	
Various	HSE	25/08	
Various	LineSearchBeforeUdig	25/08	
Water Mains	United Utilities	25/08	X
Sewers	United Utilities	25/08	X
District Energy	ENGIE	25/08	
Street Lighting	Rochdale Metropolitan Borough Council **	Enquiry closed 08/09/2021	

** Please note the Local Council will not always respond to our requests for asset information - this will be chased for 28 days from the original date of contact. The enquiry will then be marked as closed.



Electricity North West
Data Management,
Electricity North West
Linley House
Dickinson Street
Manchester, M1 4LF
Phone: 0800 195 4141
Email: planrequest@enwl.co.uk
Web: www.enwl.co.uk

Mr Joe Shawyer
Groundwise Searches Ltd
Suite 6 Princess Caroline House 1 High Street
Southend on Sea Essex
SS1 1JE

Our Reference: 22946999

Your Reference: 28617

Dear Mr Joe Shawyer

Electricity Network Plans

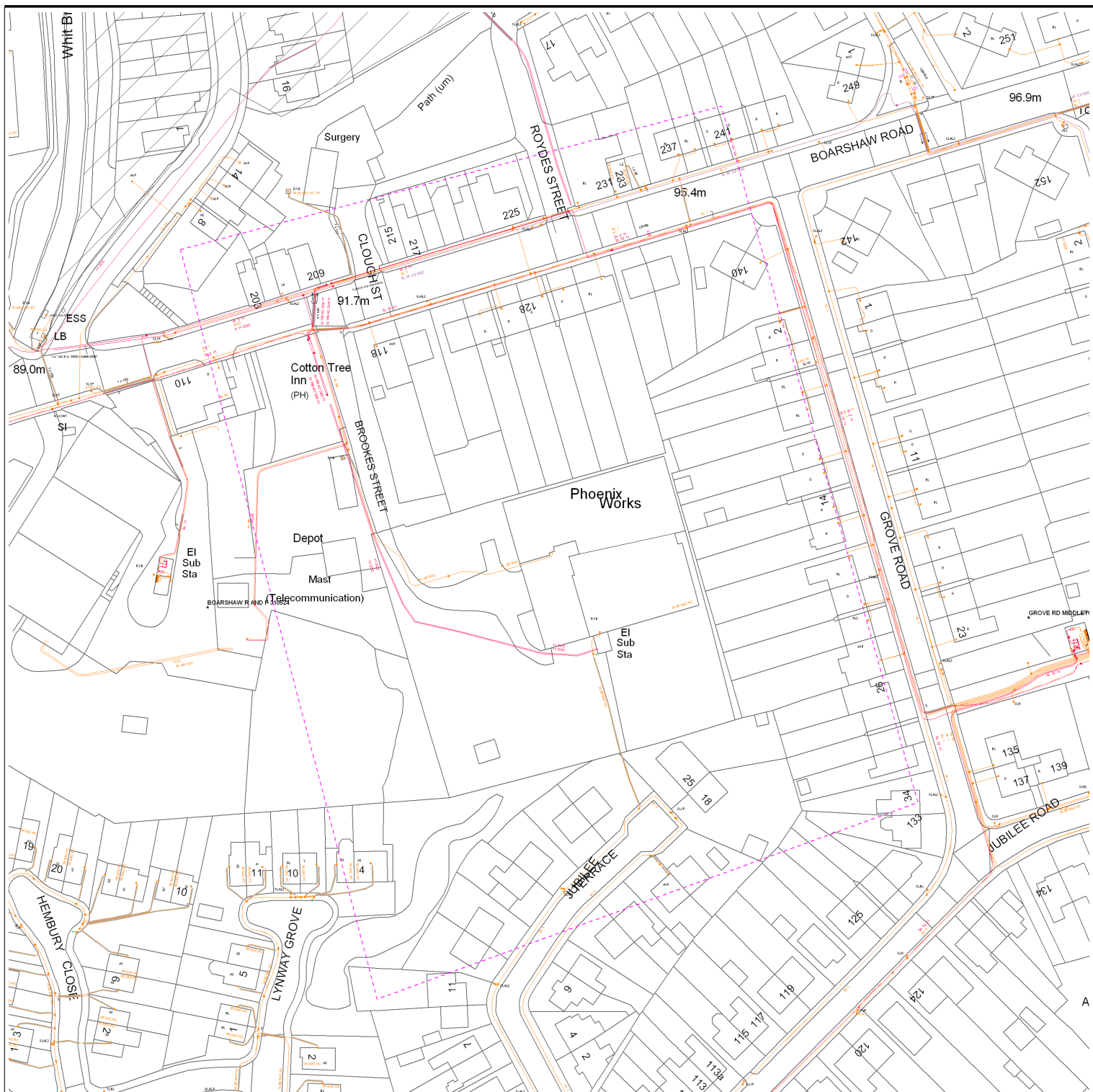
I acknowledge with thanks your request dated 11/08/2021 08:58:37 AM for information on the location of our services.

Please find enclosed plan(s) showing the approximate position of our apparatus known to be in the vicinity of this site.

I attach Conditions and information regarding electricity mains, which details contact numbers for additional services (i.e. new supplies, connections, diversion). In addition you should ensure they are made available to anyone carrying out any works which may affect our apparatus.

Yours sincerely,

Data Management



Requested by: Joe Shawyer
 Company: Groundwise Searches Ltd
 Date Requested: 11/08/2021
 Job Reference: 22946999
 Your Scheme/Reference: 28617

Operating Voltage	Colour Code	Line Colour
132kV	Black	
33kV	Green	
22kV-25kV	Yellow	
11kV	Red	
6kV-6.6kV	Blue	
1kV-6kV	Violet	
LV	Orange	
Unknown Voltage	Brown	



Data Management
 Electricity North West
 Linley House
 Dickinson Street
 Manchester, M1 4LF
 Phone: 0800 195 4141
 Email: planrequest@enwl.co.uk

Scales on A4 paper:
 1:1250 Area dig site
 1:250 Line dig site

Unless otherwise indicated the depth of Electricity North West Limited cables are in accordance with NUJG (450mm for Low Voltage & 600mm for 11kV cables) 33kV and 132kV cables are laid at depths as marked. The depth and positions of Electricity North West Limited equipment was accurate as shown when the equipment was installed. However third parties may have altered the level & other reference data. Therefore Electricity North West Limited accept no responsibility for the position of Electricity North West Limited equipment being different from shown. No person, body or company, shall be relieved from liability for damage caused to Electricity North West Limited equipment by reason of being located differently to the indications on this drawing or from any regulatory loss of income or incentive, or expense, which may be suffered by Electricity North West Limited and which is caused or contributed to by any loss of supply as a result of any damage caused to Electricity North West Limited's equipment. Service cables are not necessarily shown but must be assumed to exist to all premises, streetlights and signs. There may be other Electricity North West Limited apparatus in the vicinity which is not indicated on the cable records. Other apparatus may also be present which is owned by a third party other than Electricity North West Limited.

Reproduced from or based upon Ordnance Survey's map with the permission of Her Majesty's Stationary Office. Crown Copyright Reserved. LICENCE No. 100017892. Unauthorised reproduction may lead to Prosecution or Civil Proceedings.

Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines".

Electricity North West Limited 304 Bridgewater Place, Birchwood Park, Warrington WA3 6XG. Registered in England and Wales. Registered No 02366949

Conditions and information regarding electricity mains

These general conditions and precautions apply to the electricity distribution system of Electricity North West Limited.

Please ensure that a copy of these conditions is passed to your representative and contractor on site.

1. There may be other Electricity North West Limited apparatus in the vicinity, which is not indicated on the cable records. Other apparatus may also be present which a third party owns other than Electricity North West Limited
2. Before any machines are used all of Electricity North West's underground apparatus should be located by manual excavation taking the appropriate safety precautions in accordance with the **Health and Safety Executive Guidance note HS(G)47 "Avoiding danger from underground services"**. This contains advice to site personnel when working near underground services.

Underground services, particularly electricity and gas, can be dangerous. Damage to electricity cables can cause a dangerous flash, leading to severe burns or even death. Gas leaks can cause fire or explosion.

Damage can result from excavation or penetration of the ground, e.g. by a road pin.

Underground services may be found in roads, footpaths and on sites. Always assume that they are present. Treat any services found anywhere as live.

Accidents have happened because people have mistaken one service for another, e.g. black plastic covered electricity cables look like black plastic water pipes and cast iron gas and water mains look alike. Check before you act.

3. Before starting work you must:
 - Make sure you have plans of the underground services in the area. This may not always be possible for emergency or unforeseen works. **Remember that service connection cables and pipes from the main to building or streetlight may not be shown.**
 - Use a cable and pipe locator to trace electricity cables and metal pipes.
 - Look for signs of service connection cables or pipes, e.g. a gas meter or service connection entry into a house or a streetlight.
 - Hand dig trial holes (as many as necessary) to confirm the position of services in close proximity to the area of work.

4. When you start work:

- Hand dig near buried services whenever possible. Spades and shovels are safer than picks, pins or forks.
- Remember that cables may be embedded in concrete. Electricity cables embedded in concrete **must** either be made dead before the concrete is broken out or another safe way of working agreed with the cable owner.
- Watch out for signs of services as work continues.
- Report damage to a cable, pipe or pipe coating however slight.
- Do not use hand held power tools within 0.5m of the marked position of an electricity cable, unless this is impracticable and the line of the cable has been identified by plans and positively confirmed by a locator.
- Do not use hand held power tools directly over the marked line of cable unless:
 - a) You have already found the cable at that position by careful hand digging beneath the surface and it is at a safe depth (at least 300mm) below the bottom of the surface to be broken, or
 - b) Physical means have been used to prevent the tool striking it.
- If an excavator is used near an electricity cable keep everyone clear of the bucket while it is digging. Buckets should not be used near cable – hand dig.
- Do not use exposed services as a convenient step or handhold.
- Do not handle or attempt to alter the position of an exposed service.
- Do not install plant close to an existing service.
- Do not build existing services into a manhole or other structure or encase them in concrete.

Would you also ensure that all site operators have this information and if any electrical apparatus is damaged, they/you should contact Electricity North West Limited fault desk on **0800 195 4141 (option 1)**

5. Overhead lines are not necessarily shown on the Electricity North West Limited cable records but may be present. In the event of work being carried out adjacent to overhead lines (including access, storage etc.) please always ensure strict adherence to the requirements of the **Health and Safety Executive's Document GS6 "Avoidance of Danger from Overhead Electric Lines"**.

Extreme personal danger can result from contact, or near contact, with live conductors or overhead lines.

Treat all overhead lines and other electrical apparatus as live. If in doubt, get advice.

6. Electricity North West Limited must be consulted if work is to take place within 15 metres of overhead lines on steel towers or 9 metres of overhead lines on wood, concrete or steel pylons. (All distances should be measure at ground level from a position estimated by eye to be vertically under the outermost conductor at a tower or pole position) Any person involved in work in the vicinity of overhead lines should:
- Understand and follow the instructions given on safe working areas and methods of work.
 - Make sure that warning notices are in the cabs of machines working in the vicinity of an overhead line.
 - Make sure that barriers and warning notices are erected as required.
 - Not tip soil or stack material underneath overhead lines as this may reduce the clearance to an unsafe distance.
 - Make sure when handling or using platforms, scaffold, poles, piping, ladders, hand tools etc., that they are kept at a safe distance from overhead lines.
 - Not steady a suspended load, skip, hoist wire, slings etc., unless satisfied that there isn't any danger from overhead lines.
 - Remember that when mobile plant, such as a crane or excavator, is operating near overhead lines, the raising or slewing of the jib may introduce danger.
 - Always keep overhead lines in view when manoeuvring mobile plant.
 - Never operate a machine unless carefully guided by an experienced banksman.
 - Not approach or touch any broken or fallen conductors or any plant in contact with an overhead line before Electricity North West Limited confirms that conditions are safe. Warn others to keep well clear.

Machine operators should note that: if a machine comes into contact with an overhead line and cannot be disentangled by backing off, remain seated in the cab and warn others to keep clear of the machine until Electricity North West Limited confirms that conditions are safe. If it is essential to

leave the machine while it is in contact with the overhead line, for example if it catches fire, jump well clear – and **do not** attempt to climb down in the normal way nor touch any part of the machine when on the ground.

7. Electricity North West Limited provides approximate locations of its electricity mains or apparatus according to its records but these records are not necessarily accurate or complete and do not always show the position of private cables from mains to properties. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated.

8. Care should be taken when excavating near cables. Known road crossings are highlighted on the enclosed plans. Should any cable, or Electricity North West Limited apparatus indicated on the attached plans, be affected by your proposals please contact us as follows:

Data Management
Linley House
Dickinson St
Manchester
M1 4LF

Telephone: **0800 195 4141 (option 2)**

Details of diversion costs, if any, will be provided on request once your firm proposals have been submitted.

9. Please note that service cables may be affected by some of the works being carried out on site.

If any services do require temporary disconnection please phone **0800 195 4141 (option 2)** for domestic and commercial disconnection, so that arrangement can be made to disconnect before work commences on site.

10. For information regarding supplies please contact us on **0800 195 4141 (option 2)**.

11. Please note that cable records supplied may not be up to date, or may be incomplete, if the area concerned is a new site.

12. For information regarding wayleave or easement agreements contact:

Manchester	08433 115157
Preston	08433 113969
Kendal	08433 115155

13. The latest cable records are always available for inspection during normal working hours and you should satisfy yourself that the information you have is up to date at the time you commence work. This service is consistent with the requirement of Regulation 36 of the Electricity Supply Regulations and paragraph 79 of the New Road and Street Works Act.

Please contact Data Management on **0800 195 4141 (option 2)** to arrange an appointment to view the records.



304 Bridgewater Place
Birchwood Park
Warrington
WA3 6XG

www.enwl.co.uk

Registered in England and Wales
Registered Number 2366949

Francesca Margiotta

From: Eclipse Enquiries <enquiries@eclipsepower.co.uk>
Sent: 13 August 2021 12:42
To: Francesca Margiotta
Subject: RE: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Hello,

We can confirm we do not have anything in this area at present.

Thank you for your email.

Please do not hesitate to contact me with any queries

Victoria Coles
Eclipse Power
Office: +44 (0) 1234 486487
Mobile: +44 (0) 7860927197

www.eclipsepower.co.uk
<https://www.linkedin.com/company/eclipse-power-networks/>



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From: Joe Shawyer <JShawyer@groundwise.com>
Sent: 11 August 2021 14:58
To: osm.enquiries@atkinsglobal.com; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; plantenquiries@catelecomuk.com; OPBuriedServicesEnquiries@networkrail.co.uk; plantenquiries@trafficmaster.co.uk; assetrecords@utilityassets.co.uk; NRSWA@sky.uk; mbnl.plant.enquiries@turntown.com; Eclipse Enquiries <enquiries@eclipsepower.co.uk>
Cc: Francesca Margiotta <FMargiotta@groundwise.com>
Subject: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Ref: 28617FM
Site: Phoenix Works, Brookes St, Middleton, Manchester M24 2WL
Easting/Northing: 387700,406631
Requests:

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

Utility Assets Ltd

Thank you for recently contacting Utility Assets plant record department. We will check whether we have any plant present at your site and contact you within 5 - 7 working days ONLY if we own any plant in the vicinity.

If we do not reply, we do not have any apparatus in the area of your works. However, PLEASE TAKE CARE when excavating around electricity cables in the event that not all cables present may be accurately shown. We recommend you use detecting equipment to map the site before excavating and fully comply with HSG47. DO NOT assume that a cable is dead if you don't have a record of its presence. The cable must be treated as live unless PROVEN DEAD by the cable owner. In case of emergency please contact your local electricity distribution company.

This is an automated reply from our dedicated asset records email address. If you receive further correspondence from us it will be from asset.manager@utilityassets.co.uk quoting a site reference number.

Asset Manager - Utility Assets Ltd

Francesca Margiotta

From: plantenquiryservice@gtc-uk.co.uk
Sent: 25 August 2021 10:40
To: Francesca Margiotta
Subject: GTC Plant Enquiry - Ref- 2011953
Attachments: 2011953.png; GU-DPR-IG-0022 Safe working in the vicinity of utility networks.pdf

Warning: GTC Apparatus Exists in This Area

Our Plant Enquiry Service Ref: 2011953
Your Enquiry Ref: 28617FM

Dear Francesca,

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. For your records, the search area is shown in the attached map.

Please click on the links below to download copies of the relevant utility asset drawings locating our assets in the area which you identified. These drawings are grouped by our relevant network reference, should you need to contact us regarding any of our networks please quote this reference. Links to files will remain live for 10 days. If you do not download these files within this period you will need to submit a new enquiry – this will ensure you have an up-to-date copy of our asset records.

PLEASE NOTE: Where drawings are large, these have been provided in smaller segments. A drawing index is provided as the first file listed for each network reference (example of a network reference: N1234567) shown below. This is intended to help you find the drawing relevant to you more quickly. Please take care to ensure that you use the relevant drawings for every network listed below as we may have multiple networks and multiple utilities in this area.

N7036427

Electric

- [EN7036427-1 1 of 1.png](#)

Gas

- [N0009631-1 1 of 1.png](#)

N0009631

Electric

- [EN0009631-1 1 of 1.png](#)

Gas

- [N0009631-1 1 of 1.png](#)

This information is for guidance only and the precise position of the plant must be established, prior to your works, using hand-digging methods only. The contractor will be held responsible for any damage caused to our asset. Please note our assets now include those owned and operated by:

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited
- Independent Power Networks Limited
- Independent Water Networks Limited
- Open Fibre Networks Limited
- Independent Community Heating Limited

If you have any queries or require any further information please do not hesitate to contact us.

All works in the vicinity of our networks should be undertaken in accordance with the attached document "GU-DPR-IG-0022: Safe working in the vicinity of utility networks". Reference should also be made to HSG47 Avoiding Danger from Underground Services.

Important: The area of your proposed works may contain gas mains operating at Medium and Intermediate Pressure tiers or electric cables operating at High Voltage – please refer to the network drawings included with this email. If your proposed works are likely to involve excavation within 10 metres of any of these assets, including but not limited to gas governors and electric substations you MUST inform GTC Plant Enquiries by calling 01359 240363 and quoting your Plant Enquiries Service Reference number.

Important: Drawings provided by this service may include utility assets not owned or managed by GTC.

Conversely our drawings will NOT display assets from all third parties. It is your responsibility to ensure you have requested information from all utility asset owners.

Gas Escape or Damage MUST be reported on 0800 111 999. National Grid / DNGT will attend to make safe and repair.

Electricity Network Damage MUST be reported to ENC on 0800 032 6990.

Water Network Damage MUST be reported to IWNL on 02920 028 711

Fibre Network Damage MUST be reported to IFNL on 0845 051 1669

Thank you for using the GTC Plant Enquiries Service.

Your sincerely,

GTC Plant Enquiry Service

**GTC
Synergy House
Woolpit Business Park
Woolpit
Bury St Edmunds
Suffolk, IP30 9UP
Tel: 01359 240363
plant.enquiries@gtc-uk.co.uk**

NOTE:

This E-Mail originates from GTC, Synergy House, Woolpit Business Park, Woolpit, Bury St Edmunds, Suffolk, IP30 9UP

VAT Number: GB688 8971 40. Registered No: 029431.

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Thank you



**GROUND MOUNTED
METER BOXES**
Cavity boxes to be installed as
standard. Semi concealed boxes are to
be installed where denoted only (see
legend).

08-03-2021

Gas Notes
All gas mains, services and ducts that shall contain gas pipes, must be covered with gas identifiable marker tape 150mm above the apparatus.
Gas mains and services should have a minimum of 250mm clearance from other utilities.
Minimum Proximity to Properties

Diameter of main (mm)	Minimum Building Proximity (m)
Up to 125	+0.075 bar to 0.075 bar +2.5 bar 1.0 bar 0.8 bar
125-225	1 2 4 6
225-300	1 2 4 6
300-500	1 2 4 8
500-1000	1 5 13 15

Ducting Specification
• Ducting for mains must be yellow and non-perforated and only used perpendicular carriageway crossings.
• Ducting for services must be yellow and perforated along it's entire length.
• Only one pipe is allowed per duct.

Gas Pipe External Diameter	Duct Inside Diameter
25mm & 32mm	50mm
40mm	100mm
63mm	100mm
80mm	150mm
100mm	200mm
125mm	200mm
150mm & 200mm	300mm
315mm	400mm

Meter Positions
For all meter box types any position where damage could occur, especially from vehicles, shall be avoided.
Semi concealed meter boxes shall not:
• Obstruct footpaths
• Be a trip hazard
• Be a fire hazard

Material Specification
For material specifications please refer to G5-PSC-ES-0002 Gas Materials Purchase - Standards & Specifications
Excavation Carried Out by BUUK
The trenches highlighted in blue will be excavated and reinstated by BUUK contractors, the excavation and reinstatement of the other trenches will be the responsibility of the customer.

Legend

Proposed	Lead
Gas Pipe - 150mm	Gas Pipe - 150mm
Gas Pipe - 100mm	Gas Pipe - 100mm
Gas Pipe - 80mm	Gas Pipe - 80mm
Gas Pipe - 63mm	Gas Pipe - 63mm
Gas Pipe - 40mm	Gas Pipe - 40mm
Gas Pipe - 25mm	Gas Pipe - 25mm
Gas Pipe - 32mm	Gas Pipe - 32mm
Gas Pipe - 125mm	Gas Pipe - 125mm
Gas Pipe - 150mm	Gas Pipe - 150mm
Gas Pipe - 200mm	Gas Pipe - 200mm
Gas Pipe - 250mm	Gas Pipe - 250mm
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Gas Pipe - 3150mm	Gas Pipe - 3150mm
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Gas Pipe - 4000mm	Gas Pipe - 4000mm
Gas Pipe - 4050mm	Gas Pipe - 4050mm
Gas Pipe - 4100mm	Gas Pipe - 4100mm
Gas Pipe - 4150mm	Gas Pipe - 4150mm
Gas Pipe - 4200mm	Gas Pipe - 4200mm
Gas Pipe - 4250mm	Gas Pipe - 4250mm
Gas Pipe - 4300mm	Gas Pipe - 4300mm
Gas Pipe - 4350mm	Gas Pipe - 4350mm
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Gas Pipe - 10000mm	Gas Pipe - 10000mm

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Revision Notes
For a revision history of this network design please see separate revision history document.

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Last Edit By: VICTORIA AXENTIE 08-03-2021

Approved

OS Ref: 387659.406758

Location: Boarshaw Clough, Middleton, MANCHESTER, Lancashire, M24

Developer/Client: Paddle Ltd

Drawing Number/Title: N0009631-1_1 of 1 appendix

Network Number: N0009631 Project Number: N0009631-1

Revision: 3-5

**GROUND MOUNTED
METER BOXES**
Cavity boxes to be installed as
standard. Semi concealed boxes are to
be installed where denoted only (see
legend).

08-03-2021

Gas Notes
All gas mains, services and ducts that shall contain gas pipes, must be covered with gas identifiable marker tape 150mm above the apparatus.
Gas mains and services should have a minimum of 250mm clearance from other utilities.
Minimum Proximity to Properties

Diameter of main (mm)	Minimum Building Proximity (m)
Up to 125	+0.075 bar to 0.075 bar +2.5 bar 1.0 bar 0.8 bar
125-225	1 2 4 6
225-300	1 2 4 6
300-500	1 2 4 8
500-1000	1 5 13 15

Ducting Specification
• Ducting for mains must be yellow and non-perforated and only used perpendicular carriageway crossings.
• Ducting for services must be yellow and perforated along it's entire length.
• Only one pipe is allowed per duct.

Gas Pipe External Diameter	Duct Inside Diameter
25mm & 32mm	50mm
40mm	100mm
63mm	100mm
80mm	150mm
100mm	200mm
125mm	200mm
150mm & 200mm	300mm
315mm	400mm

Meter Positions
For all meter box types any position where damage could occur, especially from vehicles, shall be avoided.
Semi concealed meter boxes shall not:
• Obstruct footpaths
• Be a trip hazard
• Be a fire hazard

Material Specification
For material specifications please refer to G5-PSC-ES-0002 Gas Materials Purchase - Standards & Specifications
Excavation Carried Out by BUUK
The trenches highlighted in blue will be excavated and reinstated by BUUK contractors, the excavation and reinstatement of the other trenches will be the responsibility of the customer.

Legend

Proposed	Lead
Gas Pipe - 150mm	Gas Pipe - 150mm
Gas Pipe - 100mm	Gas Pipe - 100mm
Gas Pipe - 80mm	Gas Pipe - 80mm
Gas Pipe - 63mm	Gas Pipe - 63mm
Gas Pipe - 40mm	Gas Pipe - 40mm
Gas Pipe - 25mm	Gas Pipe - 25mm
Gas Pipe - 32mm	Gas Pipe - 32mm
Gas Pipe - 125mm	Gas Pipe - 125mm
Gas Pipe - 150mm	Gas Pipe - 150mm
Gas Pipe - 200mm	Gas Pipe - 200mm
Gas Pipe - 250mm	Gas Pipe - 250mm
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Gas Pipe - 1050mm	Gas Pipe - 1050mm
Gas Pipe - 1100mm	Gas Pipe - 1100mm
Gas Pipe - 1150mm	Gas Pipe - 1150mm
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Last Edit By: VICTORIA AXENTIE 08-03-2021

Approved

OS Ref: 387659.406758

Location: Boarshaw Clough, Middleton, MANCHESTER, Lancashire, M24

Developer/Client: Paddle Ltd

Drawing Number/Title: N0009631-1_1 of 1 appendix

Network Number: N0009631 Project Number: N0009631-1

Revision: 3-5

No Electric on Site

GTC NETWORK



SAFE WORKING IN THE VICINITY OF UTILITY NETWORKS

(Refer to the HSE Guidance Document HSG47)

General

1. It is imperative that all works are carried out in accordance with the guidance provided by the HSE in their document HSG47 "Avoiding Danger from Underground Services", ISBN 0-7176-1744-0. No party should carry out any excavation works or other intrusive works such as piling, blasting or demolition without following the guidance in HSG47.
2. We own gas, electricity, water and fibre apparatus located in the highway, private property and through the countryside. Some plant may be located in land for which a wayleave or easement has been granted & there may be no surface evidence of the presence of apparatus.
3. Ensure that you have obtained detailed plans of existing and proposed gas, electricity water and fibre networks.
4. The position of the networks should be pinpointed as accurately as possible by reference to the plans and by means of a locating device, which has been tested and calibrated within the last twelve months.

Excavation work should be carried out where applicable, and carefully follow recognised safe digging practices. Once a locating device has been used to determine position and route, excavation may proceed; trial holes should be dug using suitable hand tools to confirm the position of buried networks. During excavation the locating device should be reused to check position and route of buried apparatus.

5. Hand-held power tools can damage buried apparatus and should be used with care until the exact position has been determined. They may only be used to break a paved or concrete surface above the network, unless there are any indications that the network is particularly shallow, in such circumstances, accuracy of plant location is determined and excavation initiated adjacent to the apparatus.
6. No manhole, chamber or other structure should be built over, around or under the network. Such structures, other pipes, ducts and cables should be laid to provide a minimum clearance from the network of 300mm or 1.5 times the diameter of the network, whichever is the greater. No work should be carried out if this minimum clearance cannot be met or which results in a reduction of cover or protection over the network, without first consulting GTC.
7. Where an excavation uncovers a network apparatus the backfill should be adequately compacted, particularly beneath the network, to prevent any settlement, which would subsequently damage the network. Backfill material adjacent to the network should be selected fine material or sand, containing no stones, bricks or lumps of concrete etc. and should be suitably compacted to give comparable support and protection to that provided before excavation. No power compaction should take place until 200mm cover of selected fine fill has been suitably compacted by hand tools.

8. If the road construction is close to the top of the network, GTC should be asked about necessary precautions. The road construction depth should not be reduced without permission from the local Highway Authority.
9. Costs incurred by GTC through direct or consequential damage will be recharged.

Precautions for Gas Networks

10. Plans do not always show the presence of gas service pipes (from the gas main to premises) but their existence should be assumed.
11. The depth of cover for gas mains is normally 750mm in carriageways and grass verges and 600mm in footways. The depth of cover for gas services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
12. Plastic gas pipes should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.
13. The danger created by damaging a gas pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Gas pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a gas pipe.
14. If a gas leak is suspected, the following action should be taken immediately:
 - Remove all people from the immediate vicinity of the escape. If the service connection to a building or the adjacent main has been damaged, warn the occupants to leave the building, and any adjoining building, until it is safe for them to return. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building. Gas leaking from the damage inside or gas travelling along the line of the service connection pipe from outside the building may cause a build-up of gas within the building.
 - Prohibit smoking, and extinguish all naked flames and other sources of ignition i.e. stop excavator and compressor engines within at least 5.0m of the leak.
 - Inform National Grid by dialling **0800 111 999**
 - Remain on site.
 - Assist National Grid staff, Police or Fire Services as requested.
15. Where gas pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the gas pipe or cause excessive loading over the gas pipe then GTC must be consulted.

16. No concrete or other hard material should be placed or left under or adjacent to any gas pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a gas pipe.
17. Where an excavation uncovers a gas pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.
18. Pipe restraints or thrust blocks close to gas mains should never be removed.
19. Anyone who carries out work near underground gas plant should observe any specific requirements made by the site manager, and ensure that access to the plant by National Grid Gas and GTC staff is available at all times. No unauthorised repairs to gas pipes should be made.
20. Where excavation is within 5 metres proximity to above or below ground pressure control equipment, ground workers must be aware of the possibility of encountering small impulse pipe work that is more susceptible to damage.
21. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
22. GTC should be consulted if it is intended to carry out any of the following activities:
 - using explosives within 30m of gas pipes or 400m of gas pressure reduction equipment
 - piling or boring within 15m of gas plant
 - excavating within 10m of pressure reduction equipment
 - reducing the cover or protection of a gas pipe
 - carrying out nearby deep excavations
 - working near our intermediate pressure (IP) mains.

Precautions for Electricity Networks

23. Plans do not always show the presence of electric service cables (from the electricity main to premises) but their existence should be assumed.
24. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried cable. Even if no cables are shown on plans or detected by a locator, there may still be cables present, which could be live and a close watch should be kept for any signs which could indicate their presence such as marker tape, tape tile, concrete tiles and wooden battens. Any marker which is disturbed by our excavations must be replaced once work is completed.
25. Typically underground cables are laid in trenches between 450mm and 1.0m deep, although some high voltage cables will be deeper, however, depths should never be assumed.
26. A cable is positively located only when it has been safely exposed. Even then, digging should still proceed with care as there may be other cables adjacent or lower down.

27. Occasionally, cables are terminated in the ground by means of a seal, sometimes with external mechanical protection. These “pot ended” or “bottle ended” cables should be treated as live and should not be assumed to be abandoned or disused. They can be difficult to detect with locators even when “live”.
28. Using hand held power tools to break up hard surfaces often leads to accidents. Where practicable, such power tools should only be used 500mm or more away from the indicated line of a cable buried in or below a hard surface. Having done so, the cable should then be positively located by careful hand digging under the hard surface. The hard surface should be gradually removed until the cable is exposed. If the cable is not exposed then it must be assumed to be embedded within the surface. Where possible a cable locator should be used as a depth guide down the side of the excavation.
29. Because of the difficulty in confirming depth, hand held power tools should never be used over the cable unless either:
 - the cable has already been exposed by digging under the surface to be broken out and it is at a safe depth (at least 300mm) below the bottom of the hard surface material; or
 - physical precautions have been taken to prevent the tool striking the cable.
30. Excavating close to electricity cables buried in concrete is dangerous and should not be undertaken unless the cable(s) have been isolated. For this reason alone electricity cables should not be buried in concrete.
31. Using mechanical means to break up concrete can cause damage to cables and if the cable is live, anyone present is likely to be injured.
32. Where mechanical excavators are used in the possible vicinity of underground cables, the work should be arranged so that damage to cables is avoided so far as is reasonably practicable and so that everyone is kept well clear of the excavator bucket while it is digging. Drivers should have been instructed to stay in the cab if a cable is struck. If they have to leave the cab, they should jump clear. If drivers climb down, they may be electrocuted. When a cable is struck, a watch should be kept on the machine and no one should go down into the excavation or approach the mechanical excavator or the cable until GTC are contacted and arranged for the damaged cable to be made safe.
33. Where cables have been exposed:
 - any damage should be reported to GTC immediately on **0800 032 6990** and work should not be undertaken in the vicinity of a damaged cable until GTC has investigated its condition;
 - for more than 1.0m and they cross a trench, support should be provided. If the exposed cable length is shorter than 1.0m support should still be considered if joints have been exposed or the cable appears otherwise vulnerable to damage. Where advice and help is needed contact GTC;

- Suitable precautions should be taken to prevent damage from on-going work in the excavation. This may involve for example the use of physical means (e.g. timber boards, sandbags etc) to prevent mechanical damage. Materials or equipment which could damage or penetrate the outer sheath of the cable should not be used. Cables lying in the bottom of an excavation are particularly vulnerable and should be protected by nail free wooden planks, troughing or other suitable means;
 - cables should not be moved aside unless the operation is supervised by GTC;
 - Precautions should be taken to prevent access by members of the public.
34. GTC should be consulted if it is intended to carry out any of the following activities:
- using explosives within 30m of plant or substations piling or boring within 15m of electric plant
 - excavating within 10m of a substation
 - carrying out nearby deep excavations
 - working near our HV plant.

Precautions for Water Networks

35. Plans do not always show the presence of water service pipes (from the water main to premises) but their existence should be assumed.
36. The depth of cover for water mains is normally 750mm in carriageways and grass verges and 750mm footways. The depth of cover for water services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
37. Water mains should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.
38. The danger created by damaging a water pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Water pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a water pipe.
39. If a water leak is suspected, the following action should be taken immediately:
- Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building.
 - Shut down all working plant and machinery in the vicinity of the damage

- Inform IWNL by dialling **02920 028 711**.
 - Remain on site.
 - Do not attempt to make a repair.
 - Assist GTC, approved contractors and Police or Fire Services as requested.
40. Where water pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the water pipe or cause excessive loading over the water pipe then GTC must be consulted.
41. No concrete or other hard material should be placed or left under or adjacent to any water pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a water pipe.
42. Where an excavation uncovers a water pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosion and leakage.
43. Pipe restraints or thrust blocks close to water mains should never be removed.
44. Anyone who carries out work near underground water plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to water pipes should be made.
45. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
46. GTC should be consulted if it is intended to carry out any of the following activities:
- using explosives within 30m of plant
 - piling or boring within 15m of water plant
 - excavating within 10m of water asset structures
 - reducing the cover or protection of a water main or service
 - carrying out nearby deep excavations

Precautions for Fibre Networks

47. Plans may not always show the presence of fibre ducts but their existence should be assumed if GTC advise they have fibre services deployed in the given area. Any planned excavation work should only proceed with due care and attention.
48. Chambers with IFNL marked lids can be used as an onsite indicator that GTC have fibre plant deployed in a given area however an exclusion of their presence does not necessarily mean there is no plant present.

49. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried fibre duct. Even if no ducts are shown on plans there may still be ducts present which could have live fibre service installed. A close watch should be kept for any signs which could indicate duct presence such as marker tape. Any marker which is disturbed by our excavations must be replaced once work is completed.
50. The depth of cover for fibre duct is normally 350mm in footways and grass verges, 600mm in carriageways and 1000mm in agricultural deployments. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
51. Fibre ducts should be located by hand digging before mechanical excavation begins. When the positions and depth of the ducts have been determined, work can proceed. Even then, digging should still proceed with care as there may be other ducts adjacent or lower down.
52. If fibre duct damage is suspected, the following action should be taken immediately:
 - Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage at the point of impact. For example, damage to a fibre connection outside the building may result in further, unseen damage to the connection inside the building.
 - Shut down all working plant and machinery in the vicinity of the damage
 - Inform IFNL NOC immediately on **0845 051 1669**.
 - Remain on site.
 - Do not attempt to make a repair.
53. Where fibre ducts cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress on the duct. For ducts parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the duct from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the fibre duct or cause excessive loading over the fibre duct then GTC must be consulted.
54. No concrete or other hard material should be placed or left under or adjacent to any fibre duct as this can cause damage to the duct at a later date. Any backfill should comply with the requirements of NRSWA. Concrete backfill should not be used within 300mm of a fibre duct.
55. Anyone who carries out work near underground fibre plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to fibre ducts should be made.
56. Where fibre ducts have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.

57. GTC should be consulted if it is intended to carry out any of the following activities:

- using explosives within 30m of plant or fibre asset structures
- piling or boring within 15m of fibre plant
- excavating within 10m of fibre asset structures (including the OSCP)
- reducing the cover or protection of a fibre duct
- carrying out nearby deep excavations

Francesca Margiotta

From: plantprotection@cadentgas.com
Sent: 11 August 2021 10:03
To: Sales
Subject: LSBUD Ref: 22946999 Your Ref: 28617 DBYD Initial Enquiry
Attachments: 22946999_CadentGas.pdf; CADSPSSW22 - Specification for safe working in the vicinity of Cadent assets - August 2021 v2.pdf

Date: 11/08/2021
LinesearchbeforeUdig ref: 22946999
Your ref: 28617

Dear Sir/Madam,

Please submit a planned works enquiry for your project

We have received a notification from the LinesearchbeforeUdig (LSBUD) platform regarding your initial enquiry to undertake works. As this is an initial enquiry, we haven't undertaken an assessment into the impact and risk posed to our assets. We need more information from you to do so.

You must not start any work until we confirm it is safe to do so after submission of a planned works enquiry.

There are Cadent gas pipes in the area you're planning to work. These pipes may impact and possibly prevent your work for safety or legal reasons.

If your works are proposed to be undertaken in an easement, please note any auto-response from our enquiry system does not constitute written consent and formal, signed written consent which will only be provided following consultation with our plant protection team.

What you need to do

To help develop your initial enquiry into a planned works enquiry, please review our attached plans, which detail the Cadent gas assets in the area along with our key guidance documents.

Once you have a plan for review by our engineering teams, please submit a "Planned Works" enquiry via LSBUD. In the meantime, if you want to discuss specifics associated with your initial enquiry please contact us at plantprotection@cadentgas.com or on 0800 688 588 quoting your reference at the top of this letter.

Your responsibilities and obligations

It is your responsibility to ensure that the information you have given us is accurate, therefore you must not undertake any works until a planned works enquiry has been submitted for assessment. You must also share all relevant documents, including the attached guidance notes, with anyone who carries out work on your behalf.

Cadent may have a Deed of Easement on the pipeline, which provides us with a right of access for a number of functions and prevents change to existing ground levels and storage of materials. It also prevents the erection of permanent/temporary buildings, or structures. If necessary Cadent will take action to legally enforce the terms of the easement.

This letter does not constitute any formal agreement or consent for any proposed development work either generally or related to Cadent's easements or other rights, or any planning or building regulations applications.

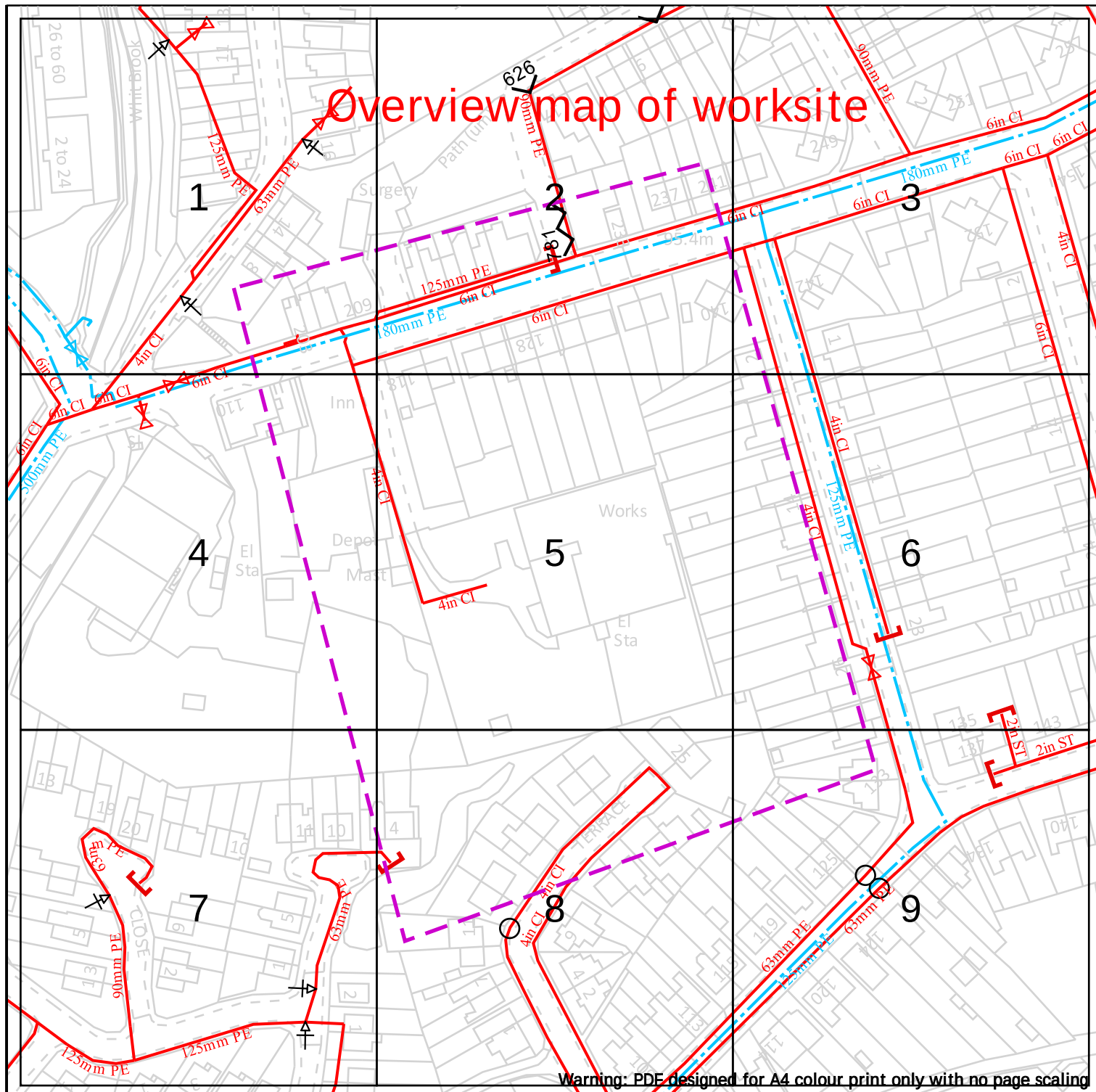
Cadent Gas Ltd or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

Kind Regards,
Plant Protection Team
T: 0800 688 588
plantprotection@cadentgas.com
cadentgas.com



To help protect your privacy, Microsoft Office prevented automatic download of this picture from the Internet.

Overview map of worksite



Warning: PDF designed for A4 colour print only with no page scaling

Cadent
Your Gas Network

Dig Sites

Area:

Line:

LP Mains
 MP Mains
 IP Mains
 LHP Mains



Valve



Depth of cover



Depth of cover



Diameter Change



Material Change



Out of Standard Service

Date Requested: 11/08/2021
Job Reference: 22946999
Site Location: 387721 406619
Requested by: Mr Joe Shawyer
Your Scheme/Reference: 28617

IMPORTANT NOTICES

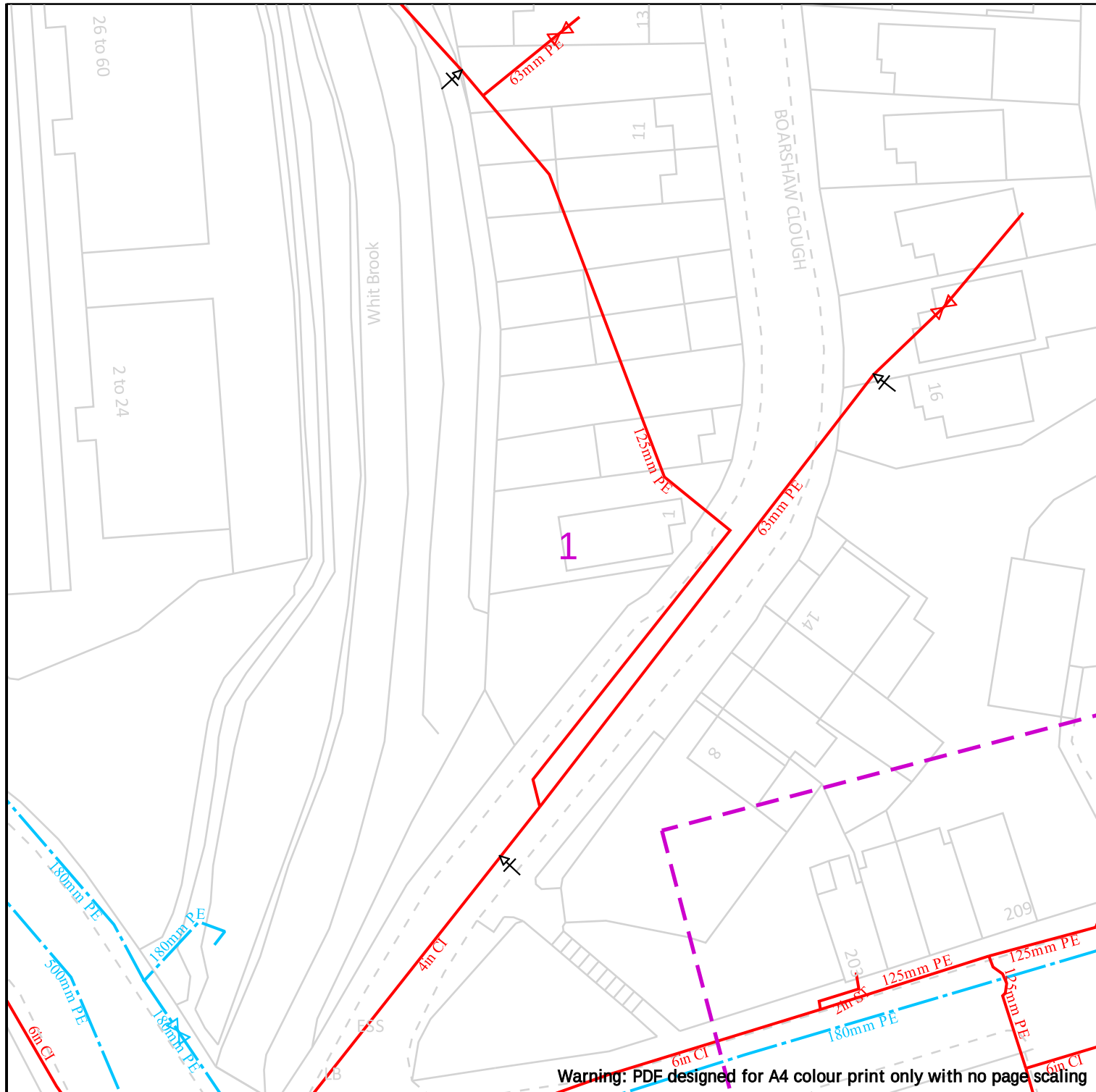
This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

View extent: 100m, 100m

In case of emergency call - 0800 111 999

Scale: 1:1538 (When plotted at A4)

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25m

Dig Sites

Area:

Line:

LP Mains
 MP Mains
 IP Mains
 LHP Mains

Valve
 Depth of cover
 Depth of cover

Diameter Change
 Material Change
 Out of Standard Service

Cadent
Your Gas Network

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View extent: 100m, 100m

Scale: 1:500 (When plotted at A4)

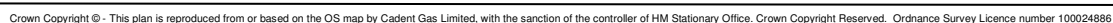
In case of emergency call - 0800 111 999

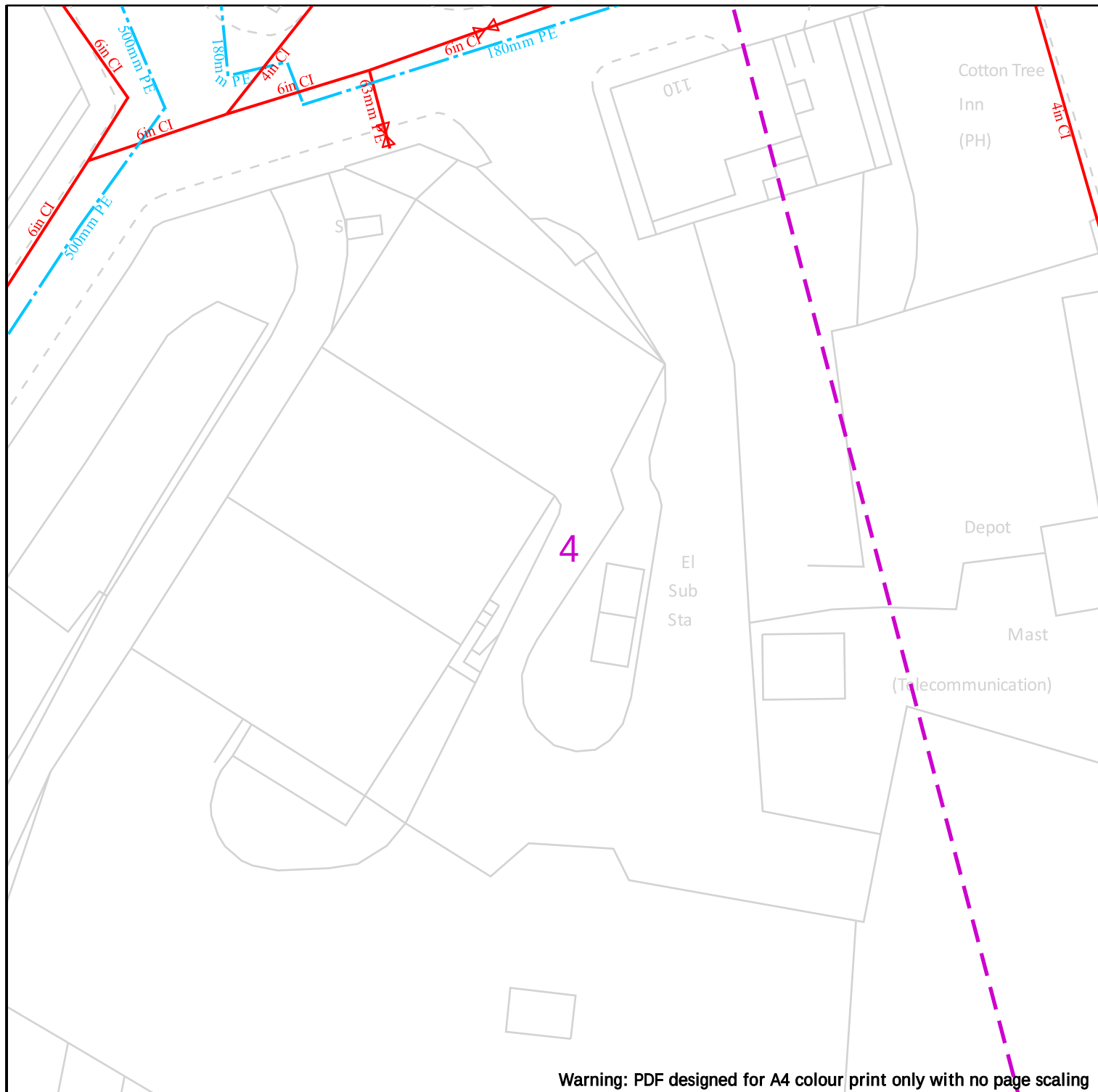
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Cadent
Your Gas Network

Date Requested: 11/08/2021
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Site Location: 387721 406619
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25m

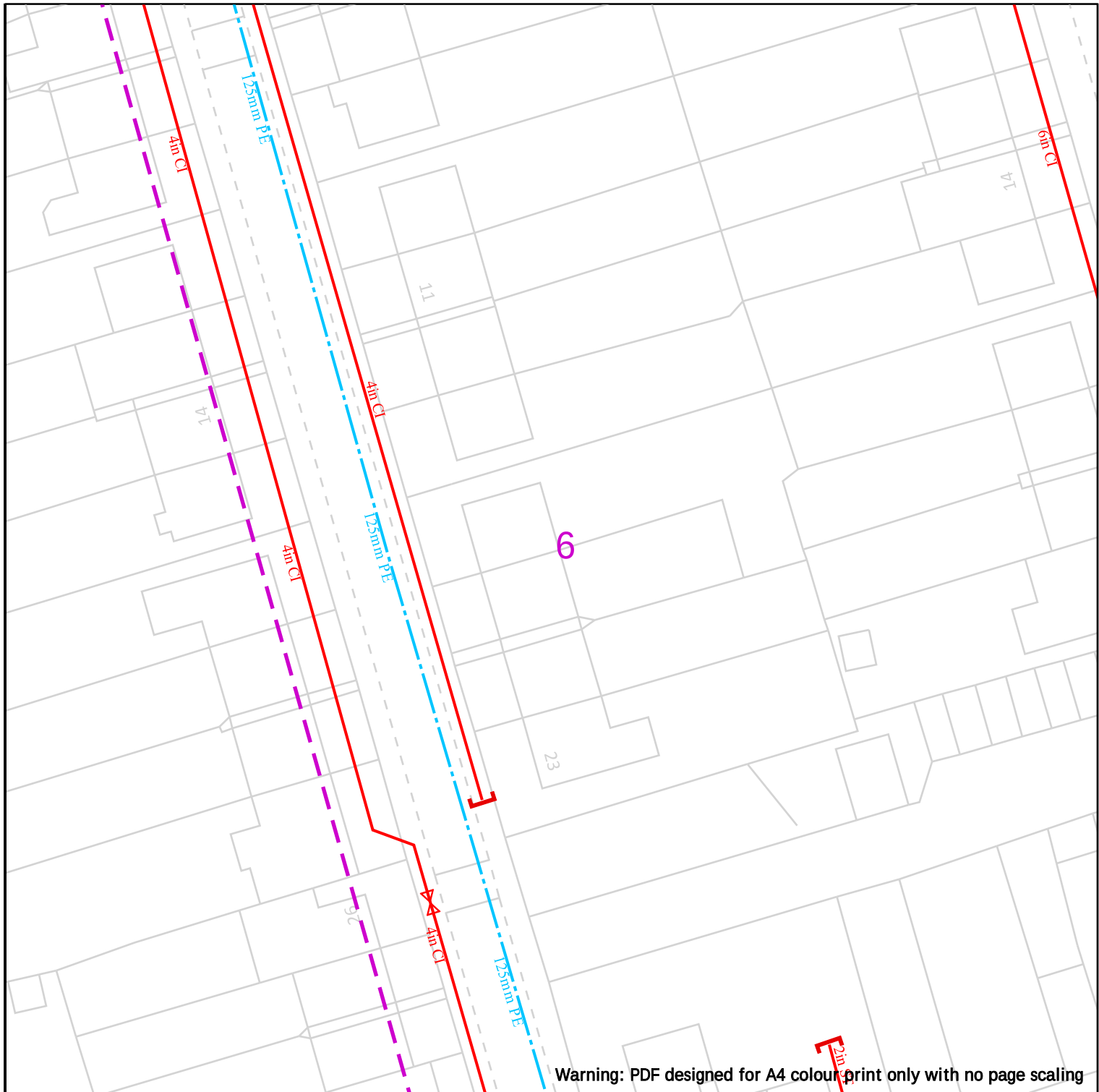
Dig Sites	Area: 	Line: 	
	LP Mains	 Valve	 Diameter Change
	MP Mains	 Depth of cover	 Material Change
	IP Mains	 Depth of cover	 Out of Standard Service
	LHP Mains		

IMPORTANT NOTICES

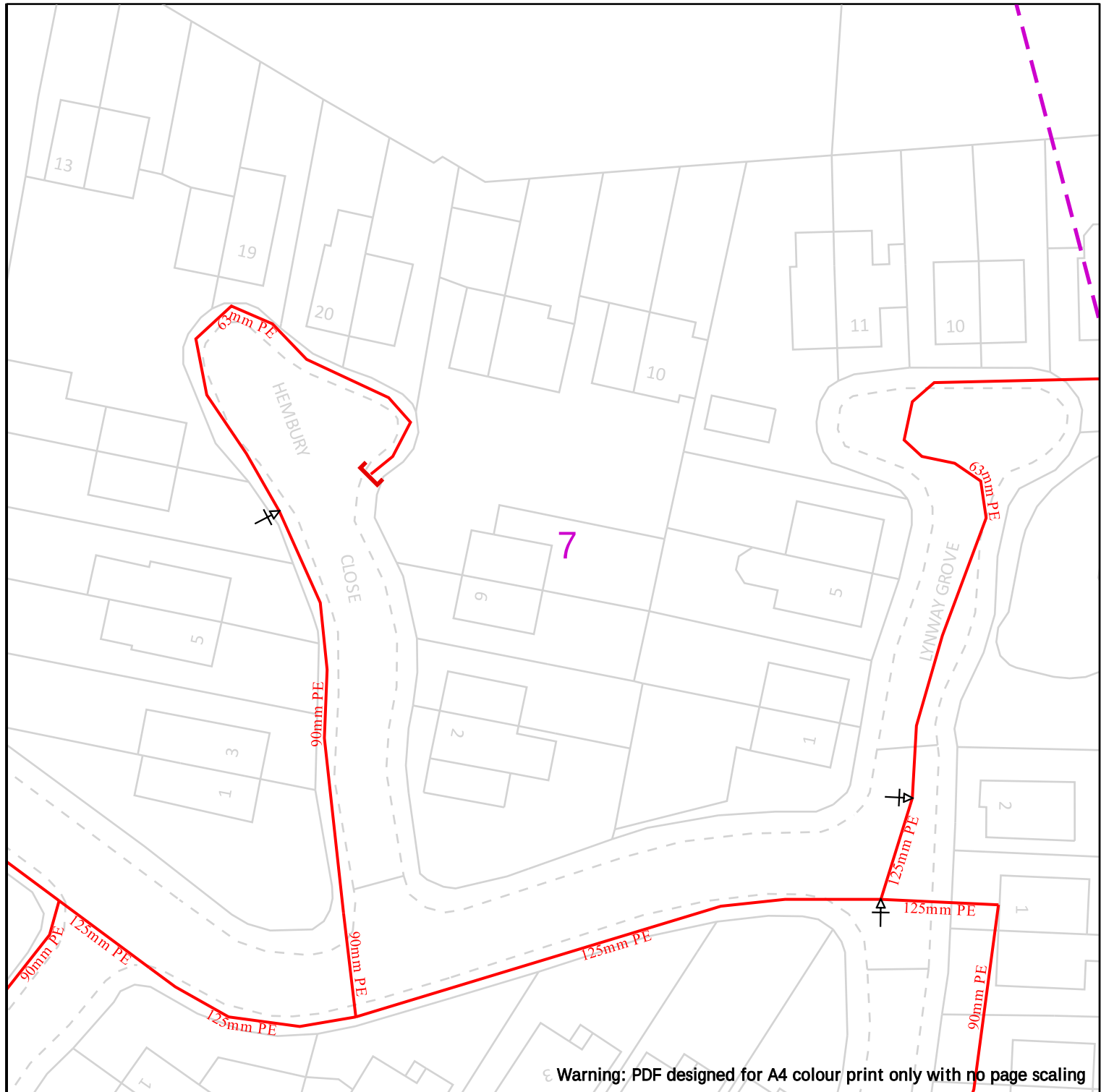
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-  Diameter Change
-  Material Change
-  Out of Standard Service



Date Requested: 11/08/2021
Job Reference: 22946999
Site Location: 387721 406619
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Specification for Safe Working in the Vicinity of Cadent Assets

CAD/SP/SSW/22

August 2021



Contents

Cadent contact details	3
Step by Step Process	4
Introduction.....	6
1. Scope	7
2. Formal Consent.....	8
3. Location of Gas Assets	11
4. Temporary and Permanent Protective Measures.....	12
5. Working in the Vicinity of a High or Intermediate Pressure Gas Asset (Operating at Pressures Greater than 2 bar)	13
6. Working in the Vicinity of a Medium Pressure Gas Asset (Operating at Pressures Greater than 75 mbar but not Exceeding 2 bar)	22
7. Working in the Vicinity of a Low Pressure Gas Asset (Operating at Pressures up to 75 mbar)	34
8. Working in the Vicinity of a Pressure Reduction Installation (PRI)	46
9. Tree Planting	47
10. Unidentified Exposed Pipes	48
11. Action in case of Damage to an Asset.....	49
12. References.....	50
13. Glossary of Terms.....	51
Appendix A – Asset Location Markers.....	52

Cadent contact details



Central admin team

Address: Cadent, Brick Kiln Street, Hinckley, Leicestershire, LE10 0NA

Phone: 0800 688 588

Email: plantprotection@cadentgas.com

East of England Operations Plant Protection

Address: Cadent Gas Limited, Vicarage Farm Road, Peterborough, PE1 5TP

Email: eaplantprotectionops@cadentgas.com

East Midlands Operations Plant Protection

Address: Cadent Gas Limited, Effingham Street, Sheffield, S4 7YP

Email: emplantprotectionops@cadentgas.com

North London Operations Plant Protection

Address: Cadent Gas Limited, Uxbridge Road, Slough, SL2 5NA

Email: nlplantprotection@cadentgas.com

North West Operations Plant Protection

Address: Cadent Gas Limited, Plant Protection (Block C), Mersey Road North, Failsworth, Greater Manchester, M35 9FF

Email: plantprotection.nw@cadentgas.com

West Midlands Operations Plant Protection

Address: Cadent Gas Limited, Windsor Street, Birmingham, B7 4DN

Email: plantprotection.wm@cadentgas.com

Step by Step Process

Register with LinesearchbeforeUdig (LSBUD)

LSBUD provide a free online enquiry service giving results within minutes from a grid reference, postcode or street name. This allows you to submit enquiries about activities and work that you are planning which may have an impact on the gas network.

www.linesearchbeforeudig.co.uk

Submit an enquiry

Within LSBUD there are 3 enquiry types, initial enquiry, planned works and emergency works. Initial enquires are for information only purposes and will not be escalated for operational site-specific advice, should you wish to carry out works you must submit a planned works enquiry. If your works are of a genuine emergency nature (e.g. burst water main etc.) then you should submit an emergency enquiry.

Review the response, asset location and enclosed guidance

LSBUD will auto-generate a response based on your enquiry details and our assets in the area. The assessment will be based on the selected Work Category and Work Type, if your planned works propose activities to be undertaken within the distances specified within this booklet you must obtain site specific advice from our specialist operational plant protection team.

If your response says that we need to assess your enquiry further, you must not start any work until we confirm it is safe to do so.

If you are advised to proceed with caution, then you must ensure that you utilise the provided asset plans and follow the guidance in this document.

Observe restrictions

In addition to the guidance contained in this booklet, you must ensure that you observe any site-specific advice provided by our specialist operational plant protection teams.

If in doubt contact Cadent using the details in this booklet

Keeping you, your workers and the public safe when working near our pipelines



Disclaimer

This document is provided for use by third parties for safe working in the vicinity of Cadent assets. Where this document is used by any other party it is the responsibility of that party to ensure that this document is correctly applied.

Users should ensure that they are in possession of the latest edition of this document by referring to the Digging Safely webpage on the Cadent website.

www.cadentgas.com/help-advice/digging-safely

Mandatory and non-mandatory requirements

In this document:

- Shall: indicates a mandatory requirement
- Should: indicates best practice and is the preferred option

If an alternative method is used then a suitable and sufficient risk assessment shall be completed to show that the alternative method delivers the same, or better, level of protection.

Introduction

Safe Working in the Vicinity of Cadent Assets: Requirements for Third Parties

This specification is for issue to third parties carrying out work in the vicinity of Cadent gas assets and associated installations. It is provided to ensure that individuals planning and undertaking work take appropriate measures to prevent damage.

Any damage to a gas asset, or its coating, can affect its integrity and can result in failure leading to potentially serious hazardous consequences for individuals located in the vicinity.

It is therefore essential that the safety advice outlined in this document, along with any site-specific advice given by our operatives, is complied with when working near to our assets. If Cadent consider any work to be in breach of the requirements stipulated in this document, then the Cadent Plant Protection Officer will request that work is suspended until the non-compliances have been rectified.

Every reasonable precaution shall be undertaken to avoid personal injury or damage to our apparatus. If we incur any direct or indirect costs as a consequence of your works and we are required to repair or divert any gas apparatus, you'll be recharged in full.

Any damage to our apparatus will be subject to legislative reporting responsibilities to the HSE under Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013, Gas Safety Management Regulations 1996 and the Pipelines Safety Regulations 1996.

The requirements in this document are in line with the Institution of Gas Engineers and Managers (IGEM) recommendations IGEM/SR/18 Edition 3 - Safe Working Practices to Ensure the Integrity of Gas Assets and Associated Installations and the HSE's guidance document HS(G)47 Avoiding Danger from Underground Services.

It is the responsibility of the third party to ensure that any work carried out also conforms with the requirements of the Construction and Design Management (CDM) Regulations 2015 and all other relevant health and safety legislation. Reference shall be made to our apparatus within your site Health and Safety file.

1. Scope

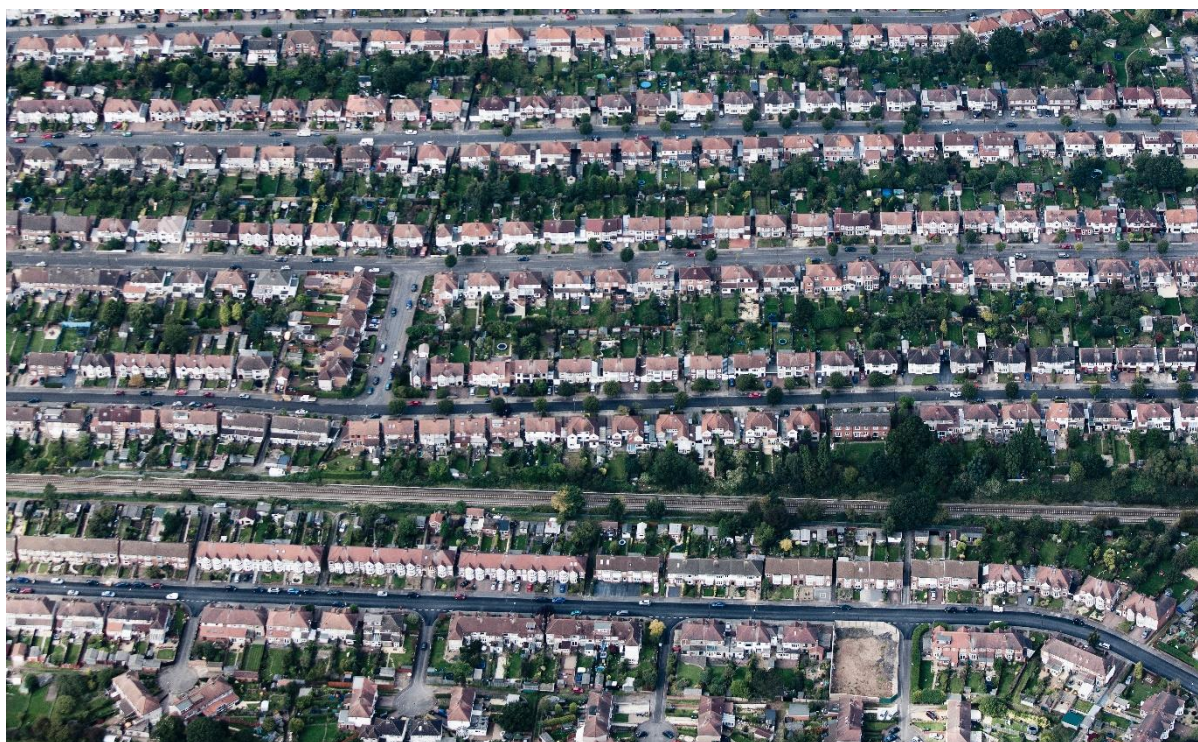
This specification sets out the safety precautions and other conditions associated with working in the vicinity of Cadent assets, located in negotiated easements (see Section 13) and public highways.

Where the guidance in this document cannot be adhered to, then the diversions process shall be followed.

Before contacting our diversions team, you'll need to have your site information and any design proposals available.

Once you have this information, please contact our diversions team diversions@cadentgas.com or on 0330 678 1034.

Visit www.cadentgas.com/diversions for more information.



2. Formal Consent

Cadent's assets are either located in an easement agreed with the landowner at the time of installation, or within the highway. As the required arrangements for working in an easement and working in the highway differ, this section describes the specific requirements for these two areas.

Any documents handed to contractors or other individuals undertaking work (e.g. farmers, local authorities etc.), on site by Cadent, shall be signed for and adhered to by the site. All personnel working on site shall be made aware of the potential hazards of working near gas assets and the actions they should follow in case of an emergency.

2.1 Within an easement

The promoter of any works (see Section 13) within an easement shall provide Cadent with details of the proposed works, including a risk assessment and method statement of how the work is intended to be carried out. Work shall not commence in an easement strip until formal written consent has been provided by Cadent. This will include details of Cadent's protection requirements, contact telephone numbers and the emergency telephone number. On acceptance of Cadent's requirements, the promoter of the works shall give Cadent at least 14 days' notice before commencing work on site.

Where clearance to proceed has been granted directly from the system, for example, if your works only affect low pressure assets (operating at less than 75 mbar), but the asset concerned is within an easement, the promoter of the works shall contact the network Plant Protection Office for formal written consent.

In addition to formal written consent, an easement crossing agreement (deed of indemnity) may be required. This shall be discussed with the Cadent Plant Protection Officer prior to the commencement of the works.

The width of an easement is dependent on a number of factors and is mainly dependent on the operating pressure, pipeline material and diameter as these factors influence safe working requirements and building proximity distances. Easement details should be registered at Land Registry however if you are unsure please liaise with your network Plant Protection Officer.

Below is a list of our standard easement widths, however, some easements may vary:

Pressure tier/ Material	Diameter	Easement Width (total)
HP Steel	900mm, 1060mm, 1200mm (36", 42", 48")	24.4m (80')
HP Steel	750mm and 600mm (30" & 24")	18.3m (60')
HP Steel	Up to and including 450mm (18")	12.2m (40')
HP RTP	Determined on a case by case basis	
IP Steel	All sizes	6m plus pipe diameter
IP PE > 5.5 bar	Above 500mm (19")	30m plus pipe diameter
	356mm to 500mm	16m plus pipe diameter
	126mm to 365mm	12m plus pipe diameter
	Up to and including 125mm	12m plus pipe diameter
IP PE <5.5 bar	Above 500mm (19")	26m plus pipe diameter
	356mm to 500mm	8m plus pipe diameter
	126mm to 365mm	8m plus pipe diameter
	Up to and including 125mm	8m plus pipe diameter
AGI's	All sites	3m restrictive width around the installation
MP PE	Above 500mm (19")	12m plus pipe diameter
	356mm to 500mm	6m plus pipe diameter
	126mm to 355mm	5m plus pipe diameter
	Up to and including 125mm	4.5m plus pipe diameter
MP Steel	All sizes	6m plus pipe diameter
MP Iron*	All sizes	6m plus pipe diameter
LP	Above 125mm	3m plus pipe diameter
	Up to and including 125mm	1m plus pipe diameter

2.2 Within a highway

Work shall be notified to Cadent in accordance with the requirements of the New Roads and Street Works Act (NRSWA) and HS(G)47. The promoter of any works within the highway should provide Cadent with details of the proposed works, including a risk assessment and method statement of how the work is intended to be carried out. This shall be submitted at least 14 days before the planned work is to be carried out. If similar works are being carried out at several locations in close proximity, a single risk assessment and method statement should be adequate depending on the nature of the works. Work should not go ahead until formal written consent has been given by Cadent. This will include details of Cadent's protection requirements, contact telephone numbers and the emergency telephone number.



3. Location of Gas Assets

A copy of our plans with your marked-out site is provided in our LSBUD response. Cadent asset records shall be consulted to establish the indicative location of the gas assets in relation to the promoter's work area.

If the marked-out area is incorrect you MUST resubmit your enquiry with the correct area marked out.

Prior to work commencing on site, the gas assets should be located to verify the indicative location from plans.

This should initially be carried out through non-intrusive methods utilising pipe locators where possible. The indicative location should be verified through trial holes. Once located, the gas assets should be marked out at regular intervals using asset location markers with triangular flags (see Appendix A) or other suitable methods.



For assets exceeding 2 bar, the excavation of all trial holes shall be monitored by Cadent. For assets not exceeding 2 bar, monitoring will be at the discretion of the Cadent Plant Protection Officer.

Safe digging practices, in accordance with HSE publication HS(G)47, shall be followed. Direct and consequential damage to gas plant can be dangerous both to employees and to the general public.

We utilise marker posts and surface boxes to denote the location of our apparatus providing access to key parts of our network. Free access shall be maintained to such apparatus during and after your works and these shall not be moved, covered or damaged during the works.

	Low Pressure
	Medium Pressure
	Intermediate Pressure
	High Pressure

4. Temporary and Permanent Protective Measures

No temporary or permanent protective measures, including the installation of concrete slab protection, shall be installed over or near to a Cadent asset without the prior written consent of Cadent. Cadent will need to approve the material, dimensions and method of installation for the proposed protective measure.

The method of installation shall be confirmed through the submission of a formal written method statement from the contractor to Cadent. Where permanent protection is to be installed over an asset, Cadent will normally carry out a coating survey of metallic assets to check that there is no existing damage to the coating, prior to the slab protection being installed. Cadent shall, therefore, be given at least 14 days' notice prior to the laying of any slab protection to arrange for this survey to be carried out.

Generally, due to the need for future access to below 2 bar gas assets, permanent protection is not permitted, however, can be approved at Cadent's discretion.

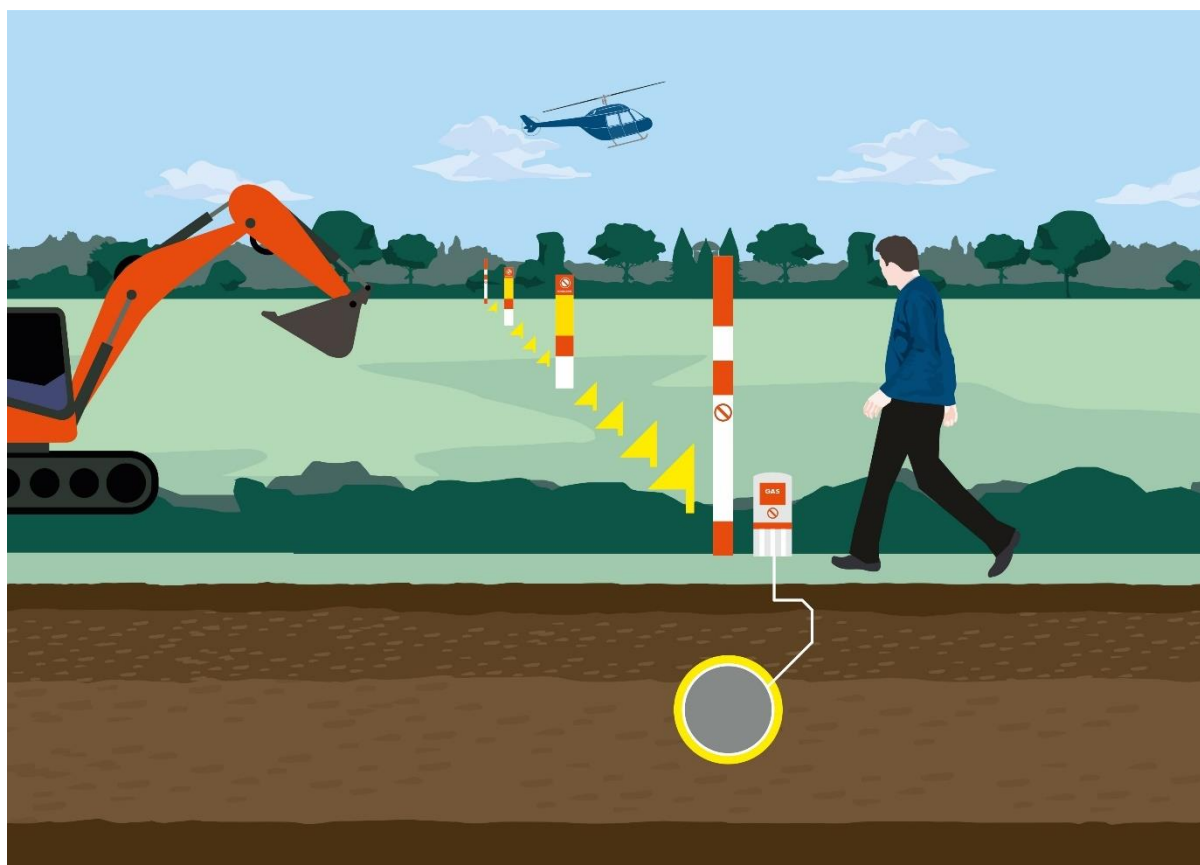
The safety precautions detailed in Sections 5, 6, 7 or 8 of this document should also be observed during the installation of the asset protection.



5. Working in the Vicinity of a High or Intermediate Pressure Gas Asset (Operating at Pressures Greater than 2 bar)

The below information shall only be used as guidance, for all works in the vicinity of High and Intermediate Pressure Pipelines the auto-response from the system will advise not to carry out any works until we have undertaken a technical review of the planned works and provided site specific safe working advice.

Initial enquires are for information only purposes and will not be escalated for operational site-specific advice, should you wish to carry out works you must submit a planned works enquiry for assessment.



5.1 Excavation

Mechanical excavators should not be sited or moved above an asset.

Mechanical excavators, and any other powered mechanical plant, shall not dig on one side of the asset with the cab of the excavator positioned on the other side.

All traffic should be positioned far enough away from the trench to prevent trench wall collapse.

5.1.1 In proximity to an asset in an easement

Following location and marking of assets in agreement with the Cadent Plant Protection Officer, powered mechanical excavation may be used no closer than 3m (see Figure 1). The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

Any fitting, attachment or connecting pipework on an asset shall be exposed by hand.

If third parties are using any form of trench support system, they shall ensure that none of the components are in contact with the Cadent asset.

Consideration may be given to a relaxation of these limits or lower risk excavation methods by agreement with the Cadent Plant Protection Officer on site.

Where sufficient depth of cover exists and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.) and following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 250mm, using a toothless bucket.

No topsoil or other materials shall be stored within the easement without the written permission of Cadent. No fires are allowed in the easement strip or close to above ground gas installations.

After the completion of the work, the level of cover over an asset should be the same as that prior to work commencing, unless otherwise agreed by Cadent.

No new service shall be laid parallel to an asset within the easement. In special circumstances, and only with formal written agreement from Cadent, this may be relaxed for short excursions where the service shall be laid no closer than 600mm.

Where work is being carried out parallel to an asset, within or just alongside the easement, suitable barriers shall be erected for protection between the works and the asset to prevent encroachment.

5.1.2 In proximity to an asset in the highway

Following locating and marking of assets in agreement with the Cadent Plant Protection Officer, powered mechanical excavation may be used no closer than 3 meters (see Figure 1).

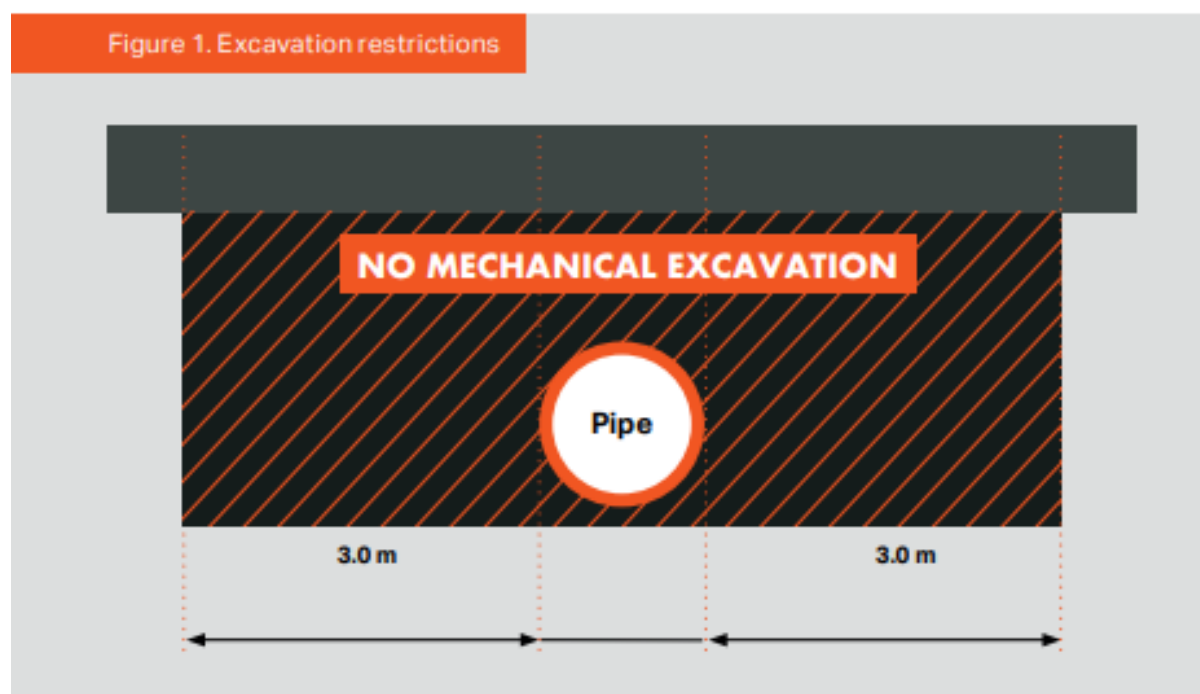
The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

Any fitting, attachment or connecting pipework shall be exposed by hand.

If third parties are using any form of trench support system, they shall ensure that none of the components are in contact with the Cadent asset.

Removal of the bituminous or concrete highway surface layer by mechanical means is permitted to a depth of 300mm, unless any attachments or projections are present on an asset (e.g. valve spindles, pressure points etc.). The use of chain trenchers is not permitted within 3m of an asset. The Cadent Plant Protection Officer may need to be present to monitor this work. Where the bituminous or concrete highway surface layer extends below 300mm deep, it shall only be removed by handheld power assisted tools under the observation of Cadent.

In special circumstances, consideration may be given to a relaxation of these rules by agreement with the Cadent Plant Protection Officer and only whilst they remain on site.



5.1.3 Crossing over an asset (Open cut)

Where a new service is to cross over an asset, a clearance distance of 600mm between the crown of the asset and underside of the service should be maintained. If this cannot be achieved, the service shall cross below the asset (see Section 5.1.4).

In special circumstances, this distance may be reduced at the discretion of the Cadent Plant Protection Officer on site.

5.1.4 Crossing below an asset (Open cut)

Where a service is to cross below an asset, a clearance distance of 600mm between the crown of the new service and underside of the asset shall be maintained. Where lengths of pipe greater than one metre are to be exposed, the Cadent Plant Protection Officer shall be consulted. Exposed assets should be suitably supported and protected by matting and timber cladding. Any supports shall be removed prior to backfilling.

In special circumstances, this clearance distance may be reduced at the discretion of the Cadent Plant Protection Officer on site.

5.1.5 Cathodic protection

Cathodic protection (CP) is applied to Cadent's buried steel pipe and is a method of protecting assets from corrosion by maintaining an electrical potential between the pipe and anodes placed at strategic points along the asset.

Where a new service is to be laid and similarly protected, the party installing the CP system shall undertake tests to determine whether the new service is interfering with the cathodic protection of Cadent assets.

Should any cathodic protection posts or associated apparatus need to be moved to facilitate third party works, at least 14 days' notice shall be given to Cadent. Cadent will undertake this work and any associated costs will be borne by the third party.

5.1.6 Installation of electrical equipment

Where electrical equipment is being installed close to Cadent's buried steel assets, the effects of a rise of earth potential under fault conditions shall be considered by the third party and a risk assessment and method statement shall be submitted to Cadent for approval, prior to the works commencing.

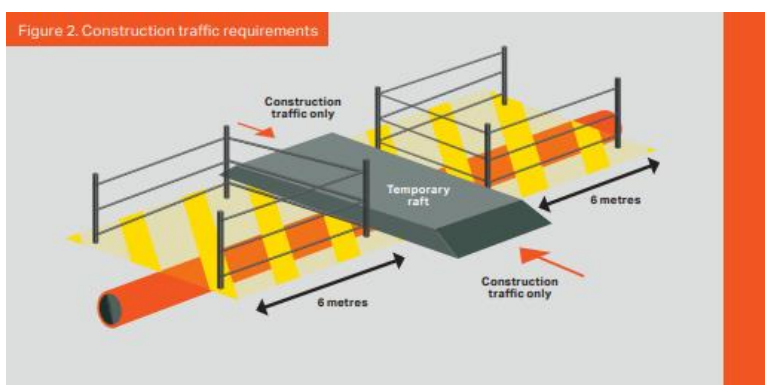
The installation of electrical cables parallel to Cadent assets may induce currents into the asset. This may interfere with the effective operation of the cathodic protection system. In these instances, Cadent will require the promoter of the works to conduct pre and post energisation potential surveys of Cadent's assets. The costs for any stray current mitigation systems required will be borne by the promoter of the works.

5.2 Construction traffic

Where existing roads cannot be used, construction traffic shall only cross an asset at locations agreed with the Cadent Plant Protection Officer. Notices shall be placed directing traffic to the crossing points. Post and wire fencing shall be erected at all crossing points, and the fence should cover the width of the easement and extend a further 6 metres along the length of the easement on both sides (see Figure 2).

Assets shall be protected at all crossing points by a suitable method agreed with the Cadent Plant Protection Officer prior to installation. The promoter of the works shall review ground conditions, vehicle types and crossing frequencies to determine the type and construction of the protection required.

For larger scale projects or permanent solutions, a protection slab may be required.



5.3 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of an asset. The promoter of works is required to consult Cadent when intending to undertake one of the listed activities and/or further advice is required on whether the work has the potential to affect the asset. The table below shows, for some specific activities, the prescribed distances where the advice of Cadent shall be sought.

Activity	Distance within which Cadent advice shall be sought
Piling	15m
Surface mineral extraction	100m
Landfilling	100m
Demolition	150m or 400m for structure mass > 10,000 tonnes
Blasting	500m if the MIC is > 200kg 250m if the MIC is > 10kg but ≤ 200kg 100m if the MIC is ≤ 10kg
Deep mining	1000m
Wind turbine	1.5 times mast height

5.3.1 Trenchless techniques

Where trenchless techniques are being considered, a formal risk assessment and method statement shall be produced. This risk assessment and method statement shall be formally agreed with Cadent prior to the commencement of the work. Please provide Cadent with at least 14 days' notice as the Cadent Plant Protection Officer may wish to be present to monitor this work.

5.3.2 Changes to depth of cover

The depth of cover over Cadent's asset shall not be altered. Cadent shall be consulted for any activity proposed that will lead to a change in cover over the asset. Expert advice may need to be sought, which will be determined by the Cadent Plant Protection Officer.

5.3.3 Piling

No piling shall be allowed within 15m of an asset without an assessment of the vibration levels at the asset. The peak particle velocity at the asset shall be limited to a maximum level of 75mm/sec. The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

5.3.4 Demolition

No demolition should be allowed within 150m of an asset, or 400m for a structure mass greater than 10,000t without an assessment of the vibration levels at the asset. The peak particle velocity at the asset shall be limited to a maximum level of 75mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

5.3.5 Blasting

The Maximum Instantaneous Charge (MIC) dictates the distance at which an assessment of the vibration levels (at the located asset) is required. The measured distances are as follows:

- 500m if the MIC is greater than 200kg
- 250m if the MIC is greater than 10kg but less than 200kg
- 100m if the MIC is 10kg or less

The peak particle velocity at the asset shall be limited to a maximum level of 75mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance.

The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

5.3.6 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100 metres of an asset. Consideration should also be given to extraction around other plant and equipment associated with assets (e.g. cathodic protection ground beds).

Where the mineral extraction extends up to the asset easement, a stable slope angle and stand-off distance between the asset and slope crest shall be determined by Cadent. The easement strip should be clearly marked by a suitable permanent boundary, such as a post and wire fence. Additionally, where appropriate, slope indicator markers shall be erected to facilitate the verification of the recommended slope angle as the slope is formed, by the third party. The asset easement and slope need to be inspected periodically to identify any signs of developing instability. This may include any change of slope profile including:

- Bulging
- The development of tension cracks on the slope or easement
- Any changes in drainage around the slope

The results of each inspection should be recorded

Where surface mineral extraction activities are planned within 100m of the asset but do not extend up to the asset easement boundary, Cadent shall assess whether this could promote instability in the vicinity of the asset. This may occur where the asset is routed across a natural slope or the excavation is deep. A significant cause of this problem is where the groundwater profile is affected by changes in drainage or the development of lagoons.

Where the extraction technique involves explosives, the provisions of Section 5.3.5 apply.

5.3.7 Deep mining

Assets within 1km of active deep mining may be affected by subsidence resulting from mineral extraction. The determination of protective or remedial measures will normally require expert assistance, which can be arranged through Cadent.

5.3.8 Landfilling

The creation of slopes outside of the asset easements may promote instability within the vicinity of an asset. Cadent should carry out an assessment to determine the effect of any landfilling activity within 100m of an asset. The assessment is particularly important if landfilling operations are taking place on a slope in which an asset is routed.

5.3.9 Pressure testing

Hydrostatic testing of a third-party asset should not be permitted within 8 metres either side of a Cadent asset, to provide protection against the effects of a burst. Where this cannot be achieved, typically where the third-party asset needs to cross a Cadent asset, one of the following precautions would need to be adopted:

- limiting of the design factor of the third-party pipeline to 0.3 at the asset's nominated maximum operating pressure (MOP), and the use of pre-tested pipe
- the use of sleeving
- Cadent conduct risk analysis of pipe failure

In either case, the third party shall submit their site-specific risk assessment and safe system of works for consideration by Cadent.

5.3.10 Seismic surveys

The promoter of works shall advise Cadent of any seismic surveying work in the vicinity of an asset that will result in peak particle velocities in excess of 75mm/sec at the asset.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

5.3.11 Hot work

Where a Cadent metallic gas asset has been exposed, welding (or other hot works that may involve naked flames) should not be carried out in proximity of the gas asset. This may be reduced if suitable protection and precautions has been agreed with Cadent.

If the gas asset is PE (or a PE asset is contained within a metallic sleeve) welding, or other hot works that may involve naked flames, should not take place within 500mm of the gas asset. This may be reduced if suitable protection and precautions have been agreed with the Cadent Plant Protection Officer to prevent against the effects of sparks, radiant heat transfer etc.

The Cadent Plant Protection Officer shall be present to monitor all welding, burning or other 'hot work' that takes place.

5.3.12 Wind turbines

Wind turbines shall not be sited any closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of a gas asset.

Further guidance can be found from UKOPA's Good Practice Guide 13 (UKOPA/GP/013) - Requirements for the Siting and Installation of Wind Turbines Installations in the Vicinity of Buried Pipelines.

5.3.13 Solar farms

Solar Farms can be built adjacent to gas assets but never within an easement. Advice shall be sought from Cadent at the early stages of design to ensure that electrical interference, security, future access and construction methods can be mutually agreed.

Further guidance can be found from UKOPA's Good Practice Guide 14 (UKOPA/GP/014) - Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines.

5.4 Backfilling

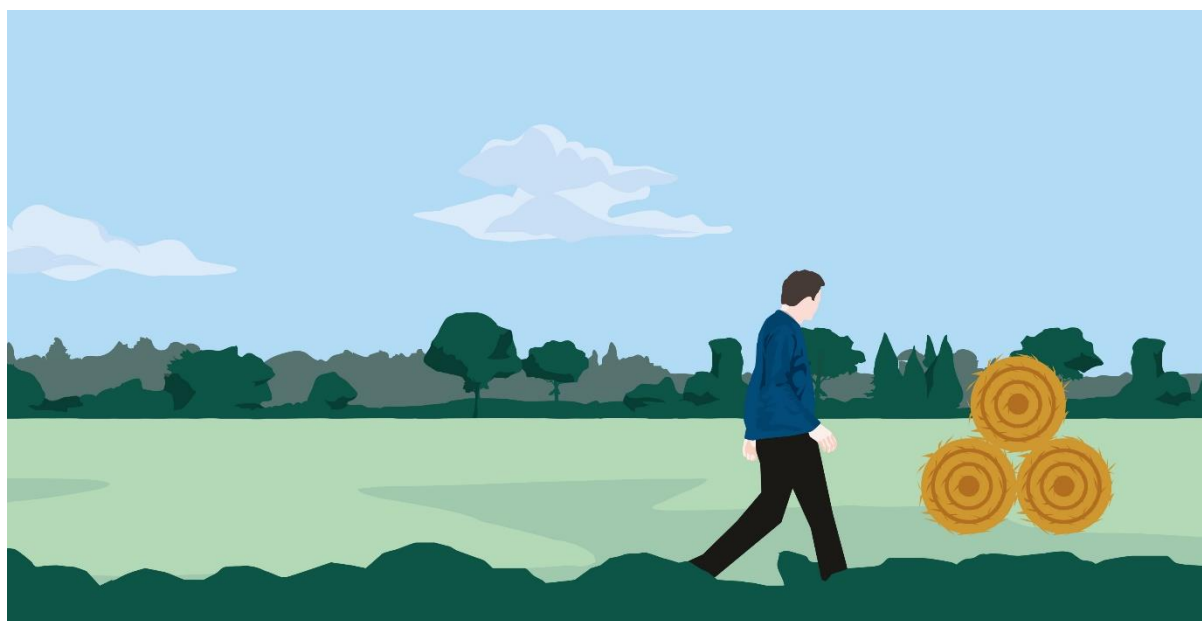
No backfilling should be undertaken without Cadent's agreement to proceed and the Cadent Plant Protection Officer will stipulate the necessary requirements. Some equipment may not be suitable for use over or around an asset due to the adverse effects of excessive compaction and vibration levels. The Cadent Plant Protection Officer will be able to advise on suitable equipment. Third parties undertaking work shall provide Cadent with 48 hours' notice, or shorter only if agreed with Cadent, of the intent to backfill over, under or alongside the asset.

This requirement should also apply to any backfilling operations that:

- are within 3 metres of an asset
- could influence the ground stability

Any damage to an asset or its coating shall be reported to Cadent in order that damage can be assessed, and repairs carried out.

Minor damage to pipe coating and cathodic protection test leads will be repaired by Cadent free of charge. If an asset has been backfilled without the knowledge of the Cadent Plant Protection Officer, the third party shall re-excavate to enable the condition of the asset coating to be assessed.



6. Working in the Vicinity of a Medium Pressure Gas Asset (Operating at Pressures Greater than 75 mbar but not Exceeding 2 bar)

The below information shall only be used as guidance, and where appropriate, will be supplemented by site specific safe working advice from the network Plant Protection Officer.

Initial enquires are for information only purposes and will not be escalated for operational site-specific advice, should you wish to carry out works you must submit a planned works enquiry for assessment.

6.1 Temporary and permanent structures

No temporary or permanent structures are permitted to be installed above, or in close proximity to a gas asset or easement due to the restriction of access this imposes. This includes, but is not limited to, permanent street furniture such as planters and bollards and temporary buildings such as welfare units and other enclosed spaces. The building proximity distances for medium pressure assets is as follows:

Material	Minimum proximity to premises
Cast/Spun Iron	3m
Ductile Iron	30m
Steel	1m
PE (inserted)	1m
PE (non-inserted)	2m for diameters $\leq$ 500mm 5m for diameters $>$ 500mm

Please note that the easement distance may be greater than the building proximity distance. For any proposed structures in the easement, please consult with the Cadent network Plant Protection Officer.

6.2 Excavation

6.2.1 General

Mechanical excavators should not be sited or moved above an asset.

Mechanical excavators and any other powered mechanical plant shall not dig on one side of the asset with the cab of the excavator positioned on the other side. All traffic should be positioned far enough away from the trench to prevent trench wall collapse.

Excavation with a powered mechanical excavator should not be carried out until the asset has been located through vacuum excavation or by hand. No mechanical excavation is permitted within 500mm of a gas asset. Any mechanical excavation should utilise a banksman. Toothless buckets shall be used due to the potential of damage to assets using toothed excavator buckets.

Consideration shall be given to apparatus installed on gas assets including valves, spindles, pressure points etc. Any fitting, attachment or connecting pipework on an asset shall be exposed by hand.

Where concrete is exposed around gas apparatus, it shall not be removed without first consulting with a Cadent Plant Protection Officer as it could be providing protection or anchorage to live apparatus.

Where a third party is using any trench support system, they shall ensure that none of its components are in contact with an asset.

The use of chain trenchers is not permitted within 3m of the confirmed location of an asset.

6.2.2 Working in vicinity of iron pipework

When deep excavation greater than 1.5m in depth is carried out in the vicinity of iron pipework, steps shall be taken to ensure the risk associated with immediate and latent asset failure are considered and, where necessary, excavations are cut back to reduce the shear factor created by ground disturbance likely to result in settlement. This also includes instances where excavations are part of construction works, including basement conversions, underground car parks, shaft construction, etc.

Care should be taken to ensure that any exposed iron pipework is suitably supported at 1m intervals and protected from damage to avoid creating tensions that could lead to joint disturbance or pipe barrel fracture.

Where fittings or existing repairs are uncovered, care shall be taken to ensure that these are not disturbed.

When working near ductile iron pipework, any corrosion identified on the pipeline shall be reported to 0800 111 999 for a first call operative to attend to undertake a hazard assessment.

6.2.3 In proximity to an asset in an easement

Where sufficient depth of cover exists and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.), following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 250mm using a toothless bucket.

No topsoil or other materials shall be stored within the easement without the written permission of Cadent. No fires are allowed in the easement strip or other gas assets.

After the completion of the work, the level of cover over the asset should be the same as that prior to work commencing.

No new service shall be laid parallel to the asset within the easement.

Where work is being carried out parallel to the asset, within or alongside the easement, suitable barriers shall be erected between the works and the asset to prevent encroachment or damage.

6.2.4 In proximity to an asset in the highway

Where sufficient depth of cover exists, and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.), following evidence from hand dug trial holes, removal of the bituminous or concrete highway surface layer by mechanical means is permitted to a depth of 300mm. Where the bituminous or concrete highway surface layer extends below 300mm deep, it shall only be removed by handheld power assisted tools.

6.2.5 Crossing over an asset (Open cut)

Where a new service is to cross over a gas asset, a minimum clearance distance of 1.5 times the diameter of the gas asset or 300mm, whichever is greater, shall be maintained. If this cannot be achieved, the service shall cross below the asset, see Section 6.2.6.

6.2.6 Crossing below an asset (Open cut)

Where a service is to cross below a gas asset, a minimum clearance distance of 1.5 times the diameter of the gas asset or 300mm, whichever is greater, between the crown of the new service and underside of the asset shall be maintained. The exposed asset shall be suitably supported and protected by matting and timber cladding. Any supports shall be removed prior to backfilling.



6.2.7 Cathodic protection

Cathodic protection (CP) is applied to some buried steel pipes and is a method of protecting assets from corrosion by maintaining an electrical potential between the asset and anodes placed at strategic points along the asset. Where a new service is to be laid and similarly protected, the party installing the CP system shall liaise with the Cadent Plant Protection Officer and undertake tests to determine whether the new service is interfering with the cathodic protection of the Cadent asset.

Should any cathodic protection posts or associated apparatus need moving to facilitate third party works, at least 14 days' notice shall be given to Cadent. Cadent will undertake this work and any associated costs will be borne by the third party.

6.2.8 Installation of electrical equipment

Where electrical equipment is being installed close to Cadent's buried steel assets, the effects of a rise of earth potential under fault conditions shall be considered by the third party, a risk assessment carried out and this shall be provided to the Cadent Plant Protection Officer for inspection. Equipment shall not be installed if the integrity of Cadent's assets is compromised. In this case, diversion of the affected assets is required.

The installation of electrical cables parallel to Cadent assets may induce currents into the asset. This may interfere with the effective operation of cathodic protection systems. In these instances, Cadent will require the promoter of the works to work with the Cadent Plant Protection Officer to ensure that pre and post energisation potential surveys of Cadent's assets are undertaken. The costs for any stray current mitigation systems required will be borne by the third-party promoter.

6.3 Construction traffic

The promoter of the works shall review the ground conditions, vehicle types and crossing frequency to determine the type and construction of crossing that will be required. Additionally, no undue loads such as spoil heaps, lighting columns, permanent traffic lights or road signs should be allowed over gas assets.

Iron pipes, or pipes that are not already within an existing road (such as those within footways or verges), shall not be crossed by construction vehicles without suitable protection and the consent of the Cadent Plant Protection Officer.

Where existing roads cannot be used, construction traffic should only cross Cadent assets at specific locations, with notices directing traffic to the crossing points erected. All crossing points shall:

- Be at right angles to the asset
- Be fenced denoting the existence of the asset to ensure all traffic uses the crossing point. The fencing shall cover the width of any easements and extend a further 6m along the length of any easements on both sides (see Figure 2).
- Have signs attached to the fence denoting the asset that the crossing point is located over

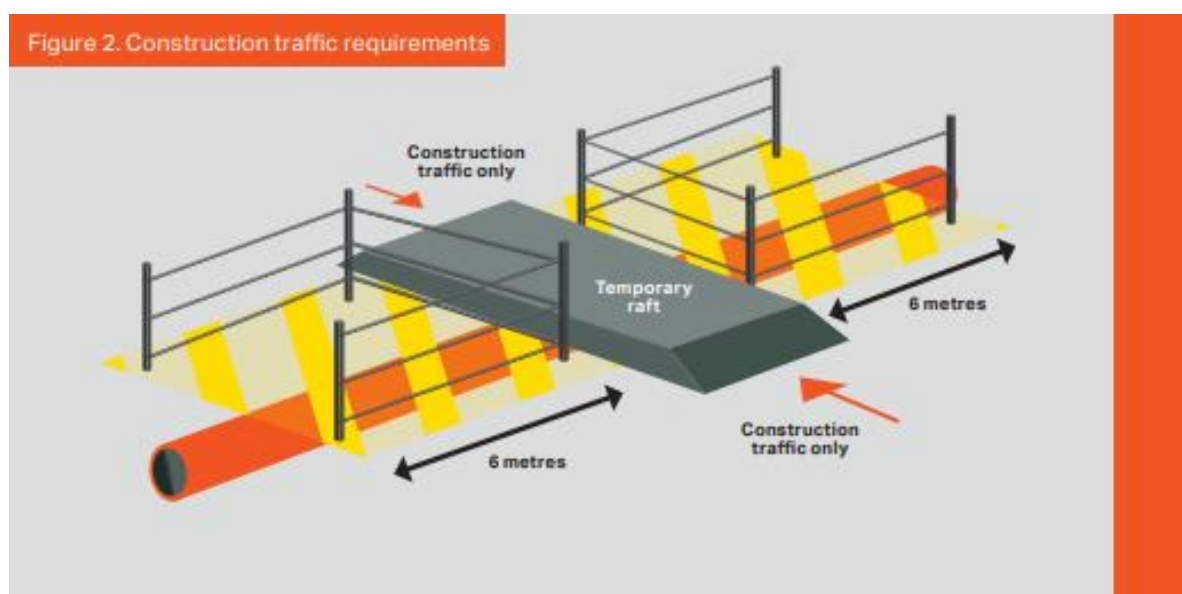
- Be regularly inspected and maintained in good condition

Note: A 5mph speed restriction should be enforced at all crossing points.

Suitable protection methods may include:

- Temporary protection slab
- Free-standing bridges (prefabricated modular steel or pre-cast concrete bridges)
- Proprietary access roadways
- Haul roads (including hardcore, sleepers, steel plates or a combination)

For larger scale projects or permanent crossings, diversion of the asset may be required.



6.4 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of a Cadent asset. The promoter of works is required to consult Cadent when intending to undertake one of the activities listed below to obtain further site-specific advice on whether the work has the potential to affect the asset. The table below shows, for some specific activities, the prescribed distances where the advice of Cadent shall be sought.

Activity	Distance within which Cadent advice shall be sought
Piling	15m
Surface mineral extraction	100m
Landfilling	100m
Demolition	150m or 400m for structure mass > 10,000 tonnes
Blasting	500m if the MIC is > 200kg 250m if the MIC is > 10kg but ≤ 200kg 100m if the MIC is ≤ 10kg
Deep mining	1000m
Wind turbine	1.5 times mast height

6.4.1 Carriageway construction (including widening & bell mouth construction)

Where it is proposed to carry out carriageway construction over an asset previously located in a footway or verge, you must contact the diversions team to determine if diversion or replacement of the asset is required before commencement of your works.

6.4.2 Trenchless techniques

Where trenchless techniques are being considered, a formal risk assessment and method statement shall be produced and submitted to the Cadent Plant Protection Officer for review prior to commencing work. Please provide Cadent with at least 14 days' notice as we may wish to be present to monitor the work.

6.4.2.1 Tunnelling

Ground movement may occur when tunnelling in soft ground conditions. Ground movement contours from the tunnelling operation shall be calculated and all gas assets within the affected zone should be identified and assessed.

PE assets can tolerate some differential ground movement.

For cast and ductile iron assets, acceptable limits on stress increase and joint disturbances are defined in the performance acceptance criteria for iron mains.

For steel assets, an integrity assessment should be carried out according to the industry standard **IGEM/TD/12 – Pipework stress analysis for gas industry plant**. An expert on Soil/Pipe Interaction Analysis should be consulted when required for the evaluation of ground movement effects on the assets.

For any proposed tunnelling works, you must contact the diversions team to determine if diversion or replacement of the asset is required before commencement of your works, due to the likely impact on our assets.

6.4.3 Changes to depth of cover

The depth of cover over Cadent's asset shall not be altered. Where a change in cover is required, contact your network Plant Protection Officer.

6.4.4 Piling

No piling shall be allowed within 15m of an asset without an assessment of the vibration levels at the asset.

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75mm/sec.

For iron assets, the peak particle velocity at the asset shall be limited to a maximum level of 25mm/sec.

The promoter of the works should provide the Cadent Plant Protection Officer with the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure the allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made, which may require expert advice.



6.4.5 Demolition

No demolition should be allowed within 150m of an asset for 400m for a structure mass greater than 10,000 tonnes without an assessment of the vibration levels at the asset.

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75mm/sec.

For iron assets, the peak particle velocity at the asset shall be limited to a maximum level of 25mm/sec.

The promoter of the works should provide the Cadent Plant Protection Officer with the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure the allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

6.4.6 Blasting

The Maximum Instantaneous Charge (MIC) dictates the distance at which an assessment of the vibration levels (at the located asset) is required. The measured distances are as follows:

- 500m if the MIC is greater than 200kg
- 250m if the MIC is greater than 10kg but less than 200kg
- 100m if the MIC is 10kg or less

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75mm/sec.

For iron assets, the peak particle velocity at the asset shall be limited to a maximum level of 25mm/sec.

The promoter of the works should provide the Cadent Plant Protection Officer with the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

6.4.7 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100m of a gas asset. Consideration should also be given to extraction around plant and equipment associated with assets (e.g. cathodic protection ground beds).

Where the mineral extraction extends up to the asset easement, a stable slope angle and stand-off distance between the asset and slope crest shall be determined. Where an easement exists, the easement strip shall be clearly marked by a suitable permanent boundary, such as a post and wire fence. Additionally, where appropriate, slope indicator markers shall be erected to facilitate the verification of the recommended slope angle as the slope is formed, by the third party. The asset easement and slope need to be inspected periodically to identify any signs of developing instability. This may include any change of slope profile including:

- Bulging
- The development of tension cracks on the slope or easement
- Any changes in drainage around the slope

The results of each inspection should be recorded.

Where surface mineral extraction activities are planned within 100m of the asset but do not extend up to the asset easement boundary, an assessment should be made as to whether this could promote instability in the vicinity of the asset. This may occur where the asset is routed across a natural slope or the excavation is deep. A significant cause of this problem is where the groundwater profile is affected by changes in drainage or the development of lagoons.

Where the extraction technique involves explosives, the provisions of Section 6.4.6 apply.

6.4.8 Deep mining

Gas assets within 1km of active deep mining may be affected by subsidence resulting from mineral extraction. The determination of protective or remedial measures will normally require expert assistance, which can be arranged through Cadent.

6.4.9 Landfilling

The creation of slopes outside of the asset easements may promote instability within the vicinity of the asset. Cadent should carry out an assessment to determine the effect of any landfilling activity within 100m of an asset. The assessment is particularly important if landfilling operations are taking place on a slope in which the asset is routed.

6.4.10 Pressure testing

Pressure testing should not be permitted within 8m of an asset unless suitable precautions have been taken against the effects of a pipe failure.

6.4.11 Seismic surveys

The promoter of works shall advise Cadent of any seismic surveying work in the vicinity of PE or steel assets that will result in peak particle velocities in excess of 75mm/sec at the asset or for iron assets that will result in peak particle velocities in excess of 25mm/sec at the asset.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

6.4.12 Hot work

Where the Cadent's metallic gas assets have been exposed, welding (or other hot works that may involve naked flames) should not be carried out in proximity of the gas asset. This may be reduced if suitable protection and precautions have been agreed with Cadent.

If the gas asset is PE (or a PE asset is contained within a metallic sleeve) welding, or other hot works that may involve naked flames, shall not take place within 500mm of the gas asset. For further advice contact your network Plant Protection Officer.

Protection measures shall be agreed with the Cadent Plant Protection Officer prior to installation to prevent the effects of sparks, radiant heat transfer etc.

Any hot works in proximity to a Cadent gas asset require leakage surveys prior to, during and after the works. If gas is detected, all works shall stop, and the leak immediately reported to the National Gas Emergency Service on 0800 111 999.

The Cadent Plant Protection Officer will determine the need to remain on site to monitor all welding, burning or other 'hot work' that takes place.

6.4.13 Wind turbines

Wind turbines shall not be sited any closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of the asset.

Further guidance can be found from UKOPA's Good Practice Guide 13 (UKOPA/GP/013) - Requirements for the Siting and Installation of Wind Turbines Installations in the Vicinity of Buried Pipelines.

6.4.14 Solar farms

Solar Farms can be built adjacent to gas assets, but never within an easement. Advice shall be sought from Cadent at the early stages of design to ensure that electrical interference, security, future access and construction methods can be mutually agreed.

Interference checks shall be completed by the third party to ensure that the solar installations and associated infrastructure have no negative effect on cathodic protection systems.

Further guidance can be found from UKOPA's Good Practice Guide 14 (UKOPA/GP/014) - Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines.

6.4.15 Lifting operations

Where lifting operations are planned to be carried out in the vicinity of medium pressure apparatus a site-specific risk assessment and lift plan is required to be reviewed by the Cadent Plant Protection Officer.

Protection shall be afforded to live apparatus when carrying out the works to prevent impact damage in the event of an uncontrolled failure or drop. Any loads shall be secured using suitable and sufficient lifting accessories to reduce the likelihood of the load being dropped.

Consideration shall be given to the location of lifting equipment and the loads induced into the ground to avoid the potential overloading of buried apparatus. Where the site cannot be laid out to avoid loading gas apparatus, the asset shall be suitably protected with the consent of the Cadent Plant Protection Officer. Alternatively, the asset will require replacement/diversion.

6.5 Backfilling and reinstatement

Reinstatement around Cadent apparatus still poses a risk to the integrity of the asset. A gas asset must not be located within the footway or carriageway construction as this has the potential to cause damage to the apparatus during and post completion of the reinstatement.

No backfilling should be undertaken without Cadent's agreement to proceed. Some equipment may not be suitable for use over or around assets due to the adverse effects of excessive compaction and vibration levels.

A gas asset shall not be encased in concrete or have concrete positioned within 300mm of the asset, or anywhere above an iron gas asset due to the need for future access.

The fine fill material should be firmly packed around the pipe in 100mm layers to achieve a compacted thickness of 75mm and shall be laid to a minimum depth of 150mm above the crown of the asset.

Mechanical compaction equipment shall not be used until a 250mm hand rammed layer has been compacted above the crown of the pipe.

For backfilling and reinstatement in the vicinity of iron apparatus, in addition to the above, the maximum weight of compaction equipment used above the crown of the asset shall not exceed 1.5t/m² and vibratory compaction shall not be used.

Material used in the backfill shall conform to the following requirements:

- Sand shall be well-graded in accordance with BS EN 13242:2002+A1:2007
- It shall not contain any sharp objects, large stones or bricks

- Foamed concrete shall not be used

We will require marker tape to be installed at least 250mm above the crown of the main.

Prior to backfilling, if the asset is coated, Cadent require the opportunity to inspect its condition in order to assess and to carry out any repairs as necessary. Please contact your network Plant Protection office to arrange this. Any damage to the asset or coating shall be reported to the Cadent Plant Protection Officer so that damage can be assessed, and repairs carried out.

Minor (and existing) damage to pipe coating and cathodic protection test leads will be repaired by Cadent free of charge. If the asset has been backfilled without the knowledge of the Cadent Plant Protection Officer, the third party will need to re-excavate to enable the condition of the asset coating to be assessed.

All temporary supports shall be removed prior to backfill but only when the asset is sufficiently supported by bedding material around the pipe.



7. Working in the Vicinity of a Low Pressure Gas Asset (Operating at Pressures up to 75 mbar)

For planned and emergency works in the vicinity of Low Pressure gas assets, the promoter will be advised proceed with caution. The guidance contained within this section must be followed. If it cannot, contact shall be made with the network Plant Protection office for advice.

7.1 Temporary and permanent structures

No temporary or permanent structures are permitted to be installed above, or in close proximity to a gas asset or easement due to the restriction of access this imposes. This includes, but is not limited to, permanent street furniture such as planters and bollards and temporary buildings such as welfare units and other enclosed spaces. The building proximity distances for low pressure assets is as follows:

Material	Minimum proximity to premises
All materials	1m

Please note that the easement distance may be greater than the building proximity distance, for any proposed structures in the easement please consult with the Cadent network Plant Protection Officer.

7.2 Excavation

7.2.1 General

Mechanical excavators should not be sited or moved above an asset.

Mechanical excavators and any other powered mechanical plant shall not dig on one side of an asset with the cab of the excavator positioned on the other side. All traffic should be positioned far enough away from the trench to prevent trench wall collapse.

Excavation with a powered mechanical excavator should not be carried out until gas assets have been located through vacuum excavation or by hand. No mechanical excavation is permitted within 500mm of gas assets. Any mechanical excavation should utilise a banksman. Toothless buckets shall be used due to the potential of damage to assets using toothed excavator buckets.

Consideration shall be given to apparatus installed on gas assets including valves, spindles, pressure points etc. Any fitting, attachment or connecting pipework on the asset shall be exposed by hand.

Where concrete is exposed around gas apparatus this shall not be removed as it could be providing protection or anchorage to the live apparatus.

Where a third party is using any trench support system, they shall ensure that none of its components are in contact with the asset.

The use of chain trenchers to do this is not permitted within 3m of the confirmed location of the asset.

7.2.2 Working in vicinity of iron pipework

When deep excavation greater than 1.5m in depth is carried out in the vicinity of iron pipework, steps shall be taken to ensure the risk associated with immediate and latent asset failure are considered, and where necessary, excavations are cut back to reduce the shear factor created by ground disturbance likely to result in settlement. This also includes instances where excavations are part of construction works including basement conversions, underground car parks, shaft construction, etc.

Care should be taken to ensure that any exposed iron pipework is suitably supported at 1m intervals and is protected from damage to avoid creating tensions that could lead to joint disturbance or pipe barrel fracture.

Where fittings or existing repairs are uncovered care shall be taken to ensure that these are not disturbed.

When working near ductile iron pipework should any corrosion be identified on the pipeline this shall be reported to 0800 111 999 for a first call operative to attend to undertake a hazard assessment.

7.2.3 In proximity to an asset in an easement

Where sufficient depth of cover exists and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.), following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 250mm using a toothless bucket.

No topsoil or other materials shall be stored within the easement without the written permission of Cadent. No fires are allowed in the easement strip or other gas assets.

After the completion of the work, the level of cover over an asset should be the same as that prior to work commencing.

No new service shall be laid parallel to an asset within an easement.

Where work is being carried out parallel to an asset, within or alongside an easement, suitable barriers shall be erected between the works and the asset to prevent encroachment or damage.

7.2.4 In proximity to an asset in the highway

Where sufficient depth of cover exists, and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.), following evidence from hand dug trial holes, removal of the bituminous or concrete highway surface layer by

mechanical means is permitted to a depth of 300mm. Where the bituminous or concrete highway surface layer extends below 300mm deep, it shall only be removed by handheld power assisted tools.

7.2.5 Crossing over an asset (Open cut)

Where a new service is to cross over an asset, a minimum clearance distance of 1.5 times the diameter of the gas asset or 300mm, whichever is greater shall be maintained. If this cannot be achieved, the service shall cross below the asset, see Section 7.2.6.

7.2.6 Crossing below an asset (Open cut)

Where a service is to cross below an asset, a minimum clearance distance of 1.5 times the diameter of the gas asset or 300mm, whichever is greater, between the crown of the new service and underside of the asset shall be maintained. The exposed asset shall be suitably supported and protected by matting and timber cladding. Any supports shall be removed prior to backfilling.

7.2.7 Cathodic protection

Cathodic protection (CP) is applied to some buried steel pipes and is a method of protecting assets from corrosion by maintaining an electrical potential between the asset and anodes placed at strategic points along the asset. Where a new service is to be laid and similarly protected, the party installing the CP system shall undertake tests to determine whether the new service is interfering with the cathodic protection of the Cadent asset.

Should any cathodic protection posts or associated apparatus need moving to facilitate third party works, appropriate notice, shall be given to Cadent. Cadent will undertake this work and any associated costs will be borne by the third party.

7.2.8 Installation of electrical equipment

Where electrical equipment is being installed close to Cadent's buried steel assets, the effects of a rise of earth potential under fault conditions shall be considered by the third party and a risk assessment carried out. Equipment shall not be installed if the integrity of Cadent's assets is compromised. In this case, diversion of the affected assets will be required.

The installation of electrical cables parallel to Cadent assets may induce currents into the asset. This may interfere with the effective operation of cathodic protection systems. In these instances, Cadent will require the promoter of the works to conduct pre and post energisation potential surveys of Cadent's assets. The costs for any stray current mitigation systems required will be borne by the third-party promoter.

7.3 Construction traffic

The promoter of the works should review the ground conditions, vehicle types and crossing frequency to determine the type and construction of crossing that will be required. Additionally, no undue loads such as spoil heaps, lighting columns, permanent traffic lights or road signs shall be allowed over gas assets.

Iron pipes, or pipes that are not already within an existing road such as those within footways or verges shall not be crossed by construction vehicles without suitable protection being designed and installed. Consideration shall be given to the requirement for access to low pressure apparatus therefore for large scale, long duration projects, or permanent crossings, the diversions process shall be followed to determine whether the asset requires diversion/replacement in advance of the works taking place.

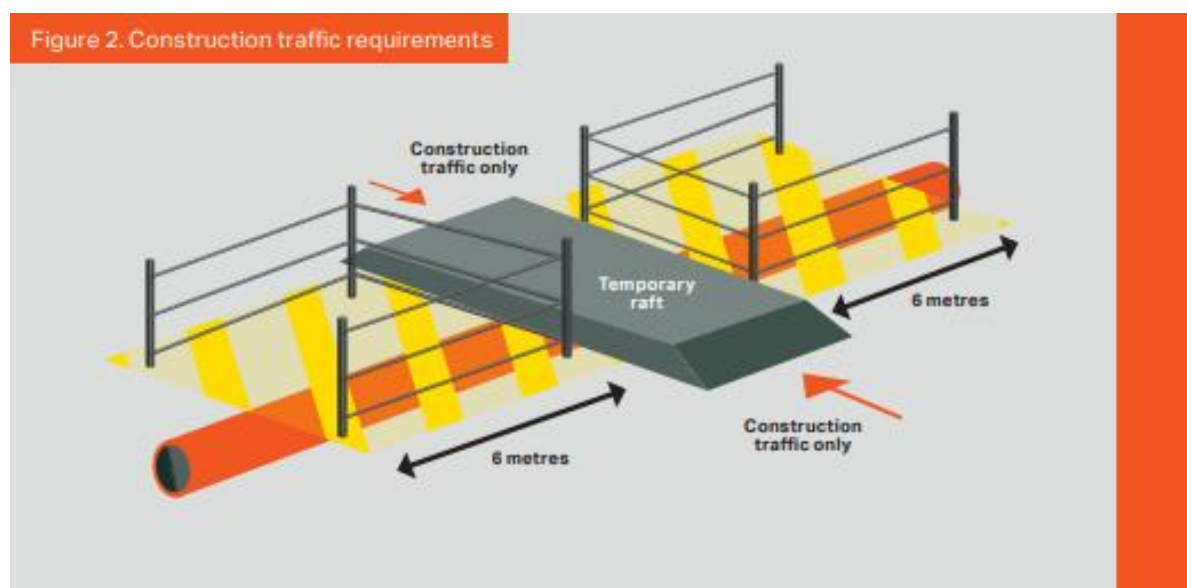
Where existing roads cannot be used, construction traffic should only cross Cadent assets with a minimum depth of cover of 750mm (post crossing construction) at specific locations, with notices directing traffic to the crossing points erected. All crossing points shall:

- Be at right angles to the asset
- Be fenced denoting the existence of the asset to ensure all traffic uses the crossing point. The fencing shall cover the width of any easements and extend a further 6m along the length of any easements on both sides (see Figure 2).
- Have signs attached to the fence denoting the asset that the crossing point is located over
- Be regularly inspected and maintained in good condition

Note: A 5mph speed restriction should be enforced at all crossing points.

Suitable protection methods may include:

- Temporary protection slab
- Free-standing bridges (prefabricated modular steel or pre-cast concrete bridges)
- Proprietary access roadways
- Haul roads (including hardcore, sleepers, steel plates or a combination)



7.4 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of a Cadent asset. The promoter of works is required to consult Cadent when intending to undertake one of the activities listed below and further advice is required on whether the work has the potential to affect the asset.

7.4.1 Carriageway construction (including widening & bell mouth construction)

Where it is proposed to carry out carriageway construction over an asset previously located in a footway or verge you must contact the diversions team to determine if diversion or replacement of the asset is required before commencement of your works.

7.4.2 Trenchless techniques

Where trenchless techniques are being considered, a formal risk assessment and method statement shall be produced prior to commencing work.

Trial holes shall be undertaken to ensure that sufficient clearance exists between gas assets and the proposed third-party asset (or the pipe to be split if a pipe splitting technique is being used) prior to the works.

If an asset is to be replaced using pipe splitting techniques in the vicinity of iron mains, in addition to the below clauses, an integrity assessment shall be undertaken.

When running parallel to gas assets, the minimum clearance shall be:

- 1m

When crossing gas assets, the minimum clearance shall be:

- 500mm or 1.5 times the diameter of the asset, whichever is greater.

Clearances may need to be increased due to the following factors:

- Ground conditions
- Largest reamer diameter
- Type of reamer used, e.g. hollow, finned, etc.
- Accuracy of equipment being used
- Construction of adjacent services and structures
- Configuration of other underground services crossing or running parallel to the drill path
- Consequences of damage
- Pipe stress increase from potential ground movement

The exposed asset should be suitably supported and be protected by matting and suitable timber cladding to reduce the risk of damage from any broken pipe fragments (if pipe splitting is used). Supports shall be removed prior to backfill but only when the asset is sufficiently supported by bedding material around the pipe.

All lateral crossings shall be exposed around their full circumference with an additional 250mm clearance below. The width of the excavation shall be three times the diameter of the largest reamer or 500mm either side of the largest reamer, whichever is the greatest. These clearances shall be measured from the drill path centre. Each crossing should be manned during the drilling/splitting operation to watch the reamer/splitter pass.

For pipe splitting running parallel to a buried gas asset, trial holes should be undertaken at suitable and frequent locations along the proposed route to confirm sufficient clearance distances exist, and the pipe route is confirmed.

The line of the pipe to be installed/split should be monitored along its length to ensure no variance from its path.

Consideration should be given for a leakage survey to be undertaken before work starts, during the works if safe to do so and following completion. If there is any likelihood of damage to the asset, the operation shall be stopped immediately.

7.4.2.1 Tunnelling

Ground movement may occur when tunnelling in soft ground conditions. Ground movement contours from the tunnelling operation shall be calculated and all gas assets within the affected zone should be identified and assessed.

PE assets can tolerate some differential ground movement.

For cast and ductile iron assets, acceptable limits on stress increase and joint disturbances are defined in the performance acceptance criteria for iron mains.

For steel assets an integrity assessment should be carried out according to the industry standard **IGEM/TD/12 – Pipework stress analysis for gas industry plant**. An expert on Soil/Pipe Interaction Analysis should be sought when required for the evaluation of ground movement effects on the assets.

For any proposed tunnelling works, due to the likely impact on our assets you must contact the diversions team to determine if diversion or replacement of the asset is required before commencement of your works.

7.4.3 Changes to depth of cover

The depth of cover over or around Cadent's iron assets shall not be altered. If a change in the depth of cover is required, you must contact the diversions team to arrange for diversion or replacement of the asset before commencement of your works.

For PE and steel pipes, reductions in depth of cover are only permitted if the below minimum depths of cover can be maintained (following investigation across the affected length):

- In fields and agricultural land 1.1m
- In roads and verges 750mm
- In footpaths 600mm
- In private property 600mm

Substantial increases in depth of cover shall not be permitted.

Where a change in the depth of cover affects attachments and projections such as services and valves, liaison with our diversions team is required to ensure these are appropriately protected or altered.

7.4.4 Piling

No piling shall be allowed within 15m of an asset without an assessment of the vibration levels at the asset.

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75mm/sec.

For iron assets, the peak particle velocity shall be limited to a maximum level of 25mm/sec.

The promoter of the works should determine the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure the allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made, which may require expert advice.

7.4.5 Demolition

No demolition should be allowed within 150m of an asset for 400m for a structure mass greater than 10,000 tonnes without an assessment of the vibration levels at the asset.

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75mm/sec.

For iron assets, the peak particle velocity at the asset shall be limited to a maximum level of 25mm/sec.

The promoter of the works should determine the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure the allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought.

Where demolition is proposed you must ensure that the gas supply to the premises has been isolated in a suitable, identified location.

7.4.6 Blasting

The Maximum Instantaneous Charge (MIC) dictates the distance at which an assessment of the vibration levels (at the located asset) is required. The measured distances are as follows:

- 500m if the MIC is greater than 200kg
- 250m if the MIC is greater than 10kg but less than 200kg
- 100m if the MIC is 10kg or less

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75mm/sec.

For iron assets, the peak particle velocity at the asset shall be limited to a maximum level of 25mm/sec.

The promoter of the works should determine the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought.

7.4.7 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100m of an asset. Consideration should also be given to extraction around plant and equipment associated with assets (e.g. cathodic protection ground beds).

Where the mineral extraction extends up to the asset easement, a stable slope angle and stand-off distance between the asset and slope crest shall be determined. Where an easement exists, the easement strip shall be clearly marked by a suitable permanent boundary, such as a post and wire fence. Additionally, where appropriate, slope indicator markers shall be erected to facilitate the verification of the recommended slope angle as the slope is formed, by the third party. The asset easement and slope need to be inspected periodically to identify any signs of developing instability.

This may include any change of slope profile including:

- Bulging
- The development of tension cracks on the slope or easement
- Any changes in drainage around the slope

The results of each inspection should be recorded.

Where surface mineral extraction activities are planned within 100m of the asset but do not extend up to the asset easement boundary, an assessment should be made as to whether this could promote instability in the vicinity of the asset. This may occur where the asset is routed across a natural slope or the excavation is deep. A significant cause of this problem is where the groundwater profile is affected by changes in drainage or the development of lagoons.

Where the extraction technique involves explosives, the provisions of Section 7.4.6 apply.

7.4.8 Deep mining

Assets routed within 1km of active deep mining may be affected by subsidence resulting from mineral extraction. The determination of protective or remedial measures will normally require expert assistance.

7.4.9 Landfilling

The creation of slopes outside of the asset easements may promote instability within the vicinity of the asset. An assessment shall be carried out by the promoter of the works to determine the effect of any landfilling activity within 100m of an asset. The assessment is particularly important if landfilling operations are taking place on a slope in which the asset is routed.

7.4.10 Pressure testing

Pressure testing should not be permitted within 8m of an asset unless suitable precautions have been taken against the effects of a pipe failure.

7.4.11 Seismic surveys

The promoter of works shall advise Cadent of any seismic surveying work in the vicinity of PE or steel assets that will result in peak particle velocities in excess of 75mm/sec at the asset or for iron assets that will result in peak particle velocities in excess of 25mm/sec at the asset.

The promoter of the works should determine the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent Plant Protection Officer on request.

7.4.12 Hot work

Where the Cadent's metallic gas asset has been exposed, welding (or other hot works that may involve naked flames) should not be carried out in proximity of the gas asset.

If the gas asset is PE (or a PE asset is contained within a metallic sleeve) welding, or other hot works that may involve naked flames, shall not take place within 500mm of the gas asset.

Protection measures shall be installed to prevent the effects of sparks, radiant heat transfer etc.

Any hot works in proximity to a Cadent gas asset shall require leakage surveys prior to, during and after the works. If gas is detected, all works shall stop, and the leak immediately reported to the National Gas Emergency Service on 0800 111 999.

7.4.13 Wind turbines

Wind turbines shall not be sited any closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of the asset.

Further guidance can be found from UKOPA's Good Practice Guide 13 (UKOPA/GP/013) - Requirements for the Siting and Installation of Wind Turbines Installations in the Vicinity of Buried Pipelines.

7.4.14 Solar farms

Solar Farms can be built adjacent to assets but never within an easement.

Interference checks shall be completed by the third party to ensure that the solar installations and associated infrastructure have no negative effect on cathodic protection systems.

Further guidance can be found from UKOPA's Good Practice Guide 14 (UKOPA/GP/014) - Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines.

7.4.15 Lifting operations

Where lifting operations are planned to be carried out in the vicinity of low pressure apparatus a site-specific risk assessment and lift plan is required.

Protection shall be afforded to live apparatus when carrying out the works to prevent impact damage in the event of an uncontrolled failure or drop. Any loads shall be secured using suitable and sufficient lifting accessories to reduce the likelihood of the load being dropped.

Consideration shall be given to the location of lifting equipment and the loads induced into the ground to avoid the potential overloading of buried apparatus. Where the site cannot be laid out to avoid loading gas apparatus, the asset shall be suitably protected with the consent of the Cadent Plant Protection Officer. Alternatively, the asset will require replacement/diversion.

7.5 Backfilling and reinstatement

Reinstatement around Cadent apparatus still poses a risk to the integrity of the asset. A gas asset must not be located within the footway or carriageway construction as this has the potential to cause damage to the apparatus during and post completion of the reinstatement.

No backfilling should be undertaken without Cadent's agreement to proceed. Some equipment may not be suitable for use over or around assets due to the adverse effects of excessive compaction and vibration levels.

A gas asset shall not be encased in concrete or have concrete positioned within 300mm of the asset or anywhere above an iron gas asset due to the need for future access.

The fine fill material should be firmly packed around the pipe in 100mm layers to achieve a compacted thickness of 75mm and shall be laid to a minimum depth of 150mm above the crown of the asset

Mechanical compaction equipment shall not be used until a 250mm hand rammed layer has been compacted above the crown of the pipe

For backfilling and reinstatement in the vicinity of iron apparatus, in addition to the above, the maximum weight of compaction equipment used above the crown of the pipe shall not exceed 1.5t/m² and vibratory compaction shall not be used.

Material used in the backfill shall conform to the following requirements:

- Sand shall be well-graded in accordance with BS EN 13242:2002+A1:2007
- It shall not contain any sharp objects, large stones or bricks
- Foamed concrete shall not be used

We will require marker tape to be installed at least 250mm above the crown of the pipe. Any damage to the asset or coating shall be reported to the Cadent Plant Protection Office so that damage can be assessed, and repairs carried out.

Minor (and existing) damage to pipe coating and cathodic protection test leads will be repaired by Cadent free of charge. If the asset has been backfilled without the knowledge of the Cadent Plant Protection Officer, the third party will need to re-excavate to enable the condition of the asset coating to be assessed.

All temporary supports shall be removed prior to backfill but only when the asset is sufficiently supported by bedding material around the pipe.

8. Working in the Vicinity of a Pressure Reduction Installation (PRI)

Pressure reduction installations come in a variety of forms:

- Above Ground Installation (AGI) – Sites with exposed pipes surrounded by fencing
- Above Ground Installation (AGI) – District governors often found in large above ground kiosks with vent stacks attached
- Below Ground Installation – District governors with large surface governors for valves and pressure reduction equipment with an above ground control cabinet and vent stack
- Service governor Installations – Small service governors providing gas to a small number of customers in an area often identified by a small green or brick kiosk

Where excavations are to be made within 10 metres of the perimeter of a pressure reduction installation (above or below ground), with the exception of service governor installations, appropriate protection methods should be determined and recorded by the Cadent Plant Protection Officer.

These installations may have magnetic slam shut devices which could operate in the event of high vibration levels being caused by the works. Advice on whether these are present shall be sought from the Cadent Plant Protection Officer and we may need to have an operative, with the competence to reset the plant, on site whilst your works are being undertaken.

Hazardous areas may be present around these installations and no ignition sources are permitted within these zones. Information on the zonings shall be sought from the Cadent Plant Protection Officer prior to commencement of any works on site.

There may be telemetry and pressure recording lines in the vicinity of these installations therefore extreme caution must be exercised when planning and undertaking works in the vicinity of these assets.

In addition to this, the safety advice detailed in either or a combination of Sections 5, 6 or 7 shall be observed when working in the proximity of an AGI.

Access to gas assets shall be maintained at all times.

9. Tree Planting

Before any tree planting is carried out in the vicinity of a Cadent asset or its easement, written consent should be obtained. This approval should be subject to Cadent retaining the right to remove any trees which might become a danger or restrict access to the asset at any time in the future.

The only hardwood plants which can be planted directly across an asset are shallow rooting hedge plants such as Quickthorn, Blackthorn, etc., and these shall only be planted where a hedge is necessary for screening or to indicate a field boundary.

Raspberries, Gooseberries and Blackcurrants shall not be planted within 2m of the outside edge of the pipe.

Dwarf Apple Stocks shall not be planted within 3m of an asset.

Christmas trees (Picea Abies) shall not be planted within 3 metres of an asset. However, permission may be given on the strict understanding that Christmas trees are clear-felled at intervals not exceeding seven years.

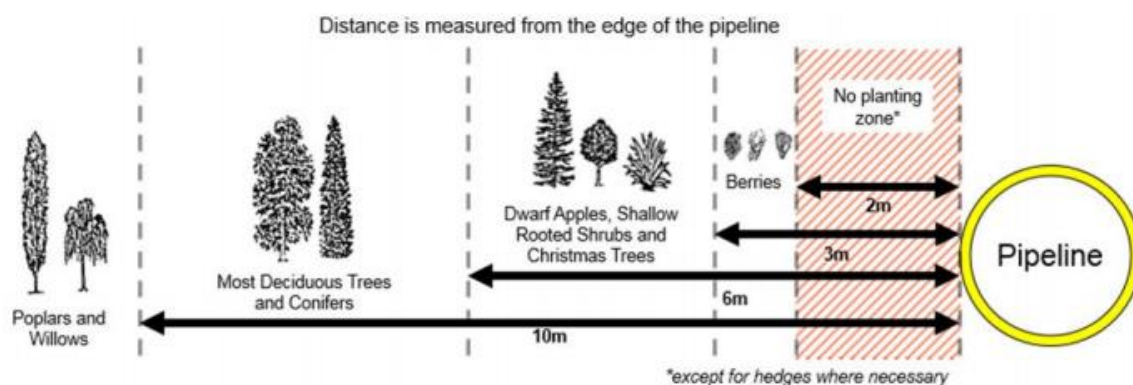
The following trees, and those of similar size which may be deciduous or evergreen, shall not be planted within 6 metres of an asset:

- Ash, Beech, Birch, most Conifers, Elm, Maple, Horse Chestnut, Oak, Sycamore, Apple, Lime and Pear trees.

Dense mass planting shall not be carried out within 10m of the outside edge of the pipe.

Poplar and Willow trees shall not be planted within 10m of the outside edge of the pipe.

For further guidance please refer to NJUG Volume 4.



10. Unidentified Exposed Pipes

An unidentified pipe is one that is not shown on any current or historical records.

Iron and steel water pipes and gas pipelines may appear very similar. If any such pipe is uncovered, it shall be treated as if it were a gas pipe.

If upon checking with all other utilities you believe an unidentified pipe to be a gas pipe, the promoter of the works shall contact plantprotection@cadentgas.com with the following information:

- LSBUD enquiry reference
- Site address (please include postcode and grid references)
- Site contact details
- Size of pipe
- Pipe material
- Confirmation that the unidentified pipe is exposed (if not, it will need to be exposed prior to our attendance)
- Confirmation that Cadent and all other asset owners plans, are available for review and inspection
- Photos of the pipe

Please be aware that it can take up to 28 days for us to confirm whether the unidentified exposed pipe is a gas asset or not.

11. Action in case of Damage to an Asset

If you hit a gas asset, whether the damage is visible or not, or in the event of an emergency, call the National Gas Emergency Service immediately on 0800 111 999*.

If the Cadent asset is damaged, even slightly, and even if no gas leak has occurred, then the following precautions shall be taken immediately:

- Shut down all plant and machinery and extinguish any potential sources of ignition.
- Evacuate all personnel from the vicinity of the asset
- Notify Cadent using the free 24-hour emergency telephone number 0800 111 999
- Notify the Cadent responsible person immediately using the contact telephone number provided.
- Ensure no one approaches the asset.
- Do not try to stop any leaking gas.
- Provide assistance as requested by Cadent, or emergency services to safeguard persons and property



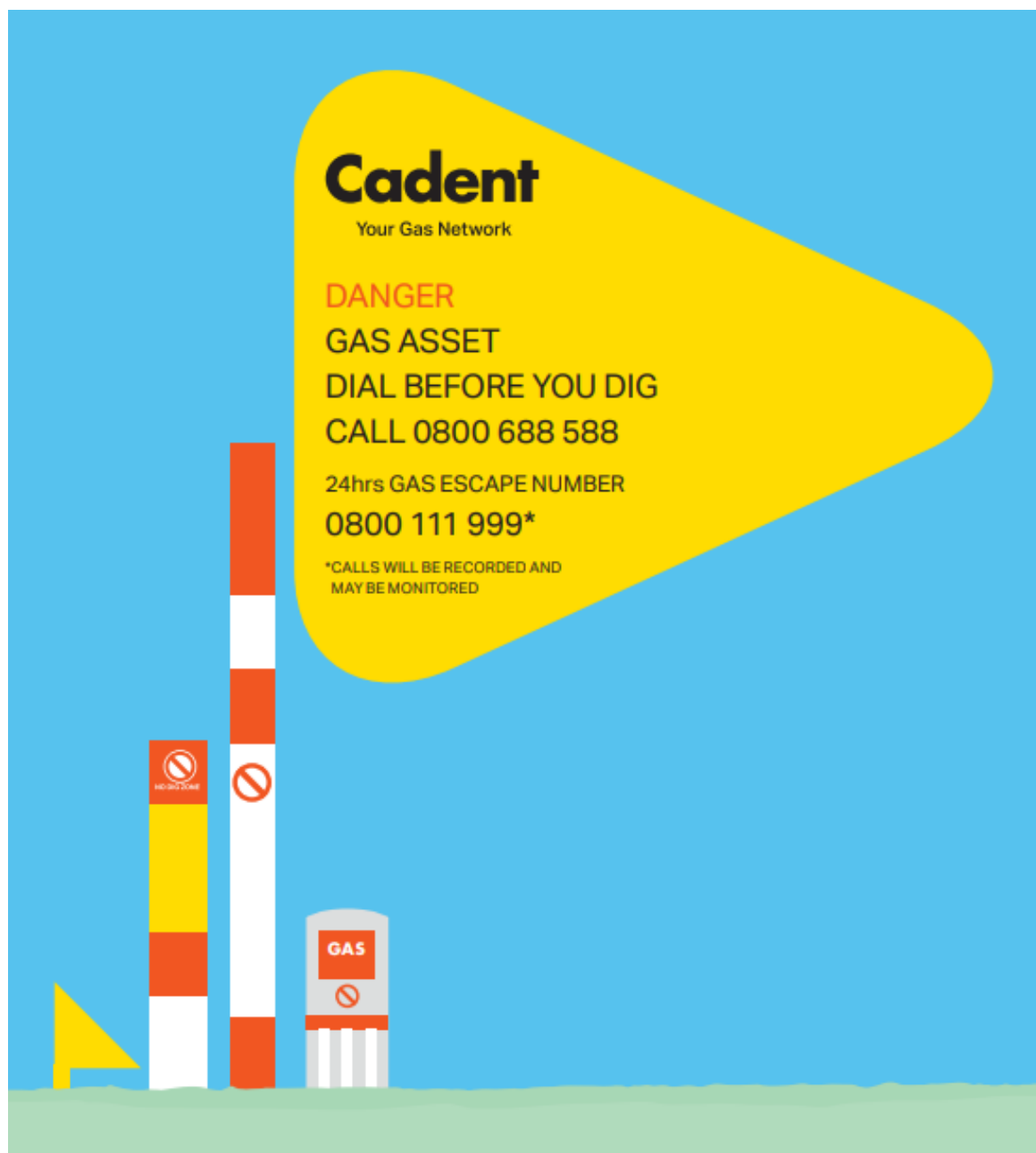
12. References

Document reference	Title
HASAWA	The Health and Safety at Work etc Act 1974
CDM	The Construction (Design and Management) Regulations 2015
LOLER	Lifting Operations and Lifting Equipment Regulations 1998
RIDDOR	Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013,
GS(M)R	Gas Safety (Management) Regulations 1996
PSR	Pipelines Safety Regulations 1996
NRSAWA	New Roads and Street Works Act 1991
HS(G)47	Avoiding Danger from Underground Services
IGEM/SR/18	Safe Working Practices to Ensure the Integrity of Gas Pipelines and Associated Installations
IGEM/TD/12	Pipework stress analysis for gas industry plant
NJUG Volume 4	Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees
UKOPA/11/0027	Requirements for the Siting of Wind Turbines Close to HP Pipelines
UKOPA/GP/013	Requirements for the Siting and Installation of Wind Turbines Installations in the Vicinity of Buried Pipelines
UKOPA/GP/014	Requirements for the Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines

13. Glossary of Terms

Term	Definition
Easement	Easements are negotiated legal entitlements between Cadent and landowners and allow Cadent to lay, operate and maintain assets within the easement strip. Easement strips may vary in width, typically between 6 and 25 metres depending on the diameter and pressure of the pipeline. Consult Cadent for details of the extent of the easement strip where work is intended.
Liquefaction	Liquefaction is a phenomenon in which the strength and stiffness of the soil is reduced by earthquake shaking or other rapid loading. Liquefaction occurs in saturated soils, that is, soils in which the space between individual particles is completely filled with water. When liquefaction occurs, the strength of the soil decreases and the ability of the soil to support assets are reduced.
Promoter of works	The person or persons, firm, company or authority for whom new services, structures or other works in the vicinity of existing Cadent assets and associated installations operating above 7 bar gauge are being undertaken.
Cadent Plant Protection Officer	The person or persons appointed by Cadent with the competencies required to act as the Cadent representative for the purpose of monitoring a particular activity.
Banksman	Another person who assists the machine operator from a position where they can safely see into the excavation and warn the driver of any services or other obstacles. This person should remain outside of the operating radius of the excavator arm and bucket.

Appendix A – Asset Location Markers



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Mast Data

Mobile Phone Masts

Search Reference: 28617FM

Search Date: 25/08/2021

A search for the location of mobile phone masts has been carried out using <http://www.mastdata.com/>

On this occasion there **does** appear to be masts within the vicinity of your site.

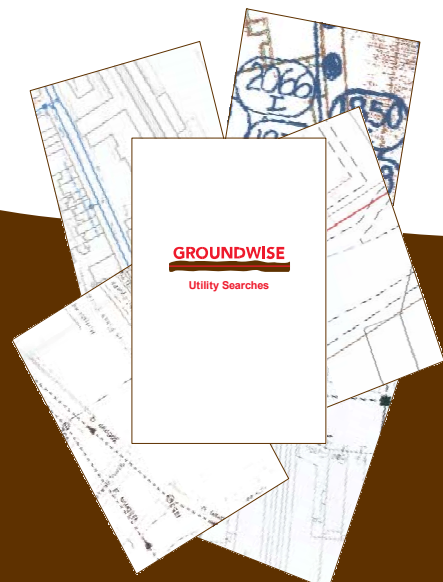
Please see the enclosed Mast Data map and information – the circular area, shaded yellow, shows the location of your site.

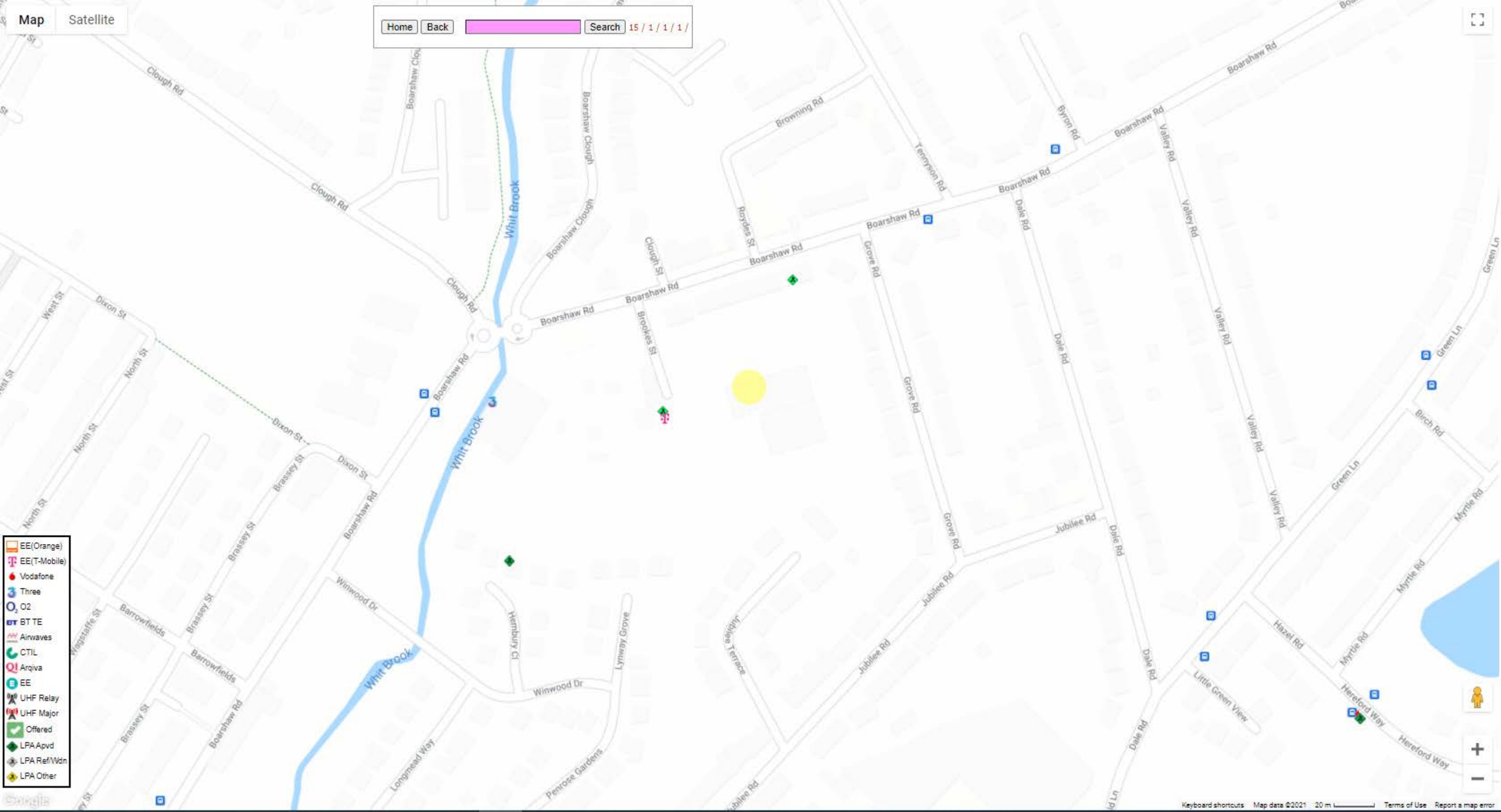
Further details can be found on the Mast Data website - <http://www.mastdata.com/>

Mast Data
North End House
Avon
Christchurch
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BH23 7BJ
020 8144 8143
info@mastdata.com

Groundwise Searches Limited
Suite 6, 3rd Floor, Princess Caroline House
1 High Street
Southend-on-Sea
Essex, SS1 1JE
Telephone 01702 615566
Email mail@groundwise.com
Website www.groundwise.com

*Registered Office Address:
Matrix House, 12-16 Lionel Road,
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15 / 1 / 1 / 1 /

- EE(Orange)
- EE(T-Mobile)
- Vodafone
- Three
- O2
- BT TE
- Airwaves
- CTIL
- Arqiva
- EE
- UHF Relay
- UHF Major
- Offered
- LPA Apvd
- LPA Ref/Wdn
- LPA Other

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Previous Work / Planning Details

	LPA	Map and summary for Rochdale telecoms applications
	Best Network Operator	BNO Map from Survey Data [BETA]
	1km Grid Line of Sight	Line of Sight Map - 1km Grid - Approx 9km2
	Radial Line of Sight [BETA]	Line of Sight Map - Radial [BETA]
	Application (LPA) Ref	0247/PDN
	Status/Decision	Decided
	Pico/Micro/Macro	Macro
	Appeal Decision	Not Available
	Appeal Status	Unknown
	Application Type	PD Notifications
	Decision	Notification Acknowledged
	Status	Decided
	Decision	Approved
	Plan Type	Planning
	Instruction Type	Installation of telecommunications apparatus.
	Equipment	5963200G (Amphenol)
	Equipment	CVV2NPX308_208R (Commscope)
	Equipment	ATD4516R9 (Huawei)
	Main URL	View Application on Rochdale Website (External Link)
	Map View Site with masts	Map of Application with additional local masts
	MAP URL	View Map on Rochdale Website
	Document URL	View Documents/Drawings on Rochdale Website
	Address	, Opposite Cotton Tree Inn 110 Boarshaw Road Middleton M24 2WH, M24 2WH
	Location	Poor Accuracy(.)
	Lat/Long	53.55/-2.18
	Nearest UPRN	23017864
	AMSL/AGL	97m(AMSL)
	Population/UPRN Count	6906 residents within 1km
	Start/End	Sep 2 2019 12:00AM / Sep 2 2019 12:00AM
	View Addition Masts	View map with all masts at this location
	Site Built? Add to Database	Click here to Add this Site to mastdata.com
	Support Ticket	23001:Scraped DATA FOI9

Location of Work/Planning Application



Map	Ref	Mtr	Nearest Mobile Phone Masts	Description	LoS
Map	 24138	 93	Boarshaw Trading Estate, M24 2SX		22km²
Map	 M0088	 160	Boarshaw Trading Estate, Heywood, Lancashire, M242SX	Three UMTS Sectored	9km²
Map	 44197  9808  78626	 313	stanycliffe house, Cornerstone 9808_78626 - Hereford Way SF - Midd...		23km²
Mast missing? Click here to add sites Hide Message					

[Map](#) [O2 40832](#) [G 9805](#) [23231](#)
[Map](#) [23231](#)
[Map](#) [T 56078](#)
[Map](#) [3 M0263](#)
[Map](#) [3394](#)
[Map](#) [103.85](#)

[550](#) HIGHER BOARSHAW, Cornerstone 9805_Vodafone 23231Tonge HallCHURCH ST...
[550](#) ROCHDALE ROAD I.E., CHURCH ST , Rochdale Road, MIDDLETON, Lancashir...
[578](#) T-Mobile Site, Heywood, Lancashire, M242GY
[578](#) Three Site, Heywood, Lancashire, M242GY
[868](#) NTL (EX. IBA), NTL RADIO SITE, Lark Hill, MIDDLETON, Lancashire, M2...
[868](#) Middleton UHF Transmitter, Heywood, Lancashire, M242JX

O2 UMTS Sected [33km²](#)
 Vodafone UMTS Macro [31km²](#)
 T-Mobile UMTS SECTOR [32km²](#)
 Three UMTS Sected [32km²](#)
 Vodafone UMTS Macro [29km²](#)
 Television Station (UHF Digital System) [35km²](#)

1 2

Map	LPA Ref	LPA	Mtr	Operator	Nearby/Related Planning Apps	Date	Decision	Ref	Address	Outcome	LoS
Map	19/00544/FUL	Rochdale	91	MBNL	Replacement of existing 15m monopole with 20m high capacity monopole supporting 6 no. antenna ape...	14/05/19	Grant subject to conditions	1105587 E 24138 M ROD044 3 M0088	Land At Boarshaw Trading Estate Boarshaw Road Middleton M24 2SX, M24 2SX Boarshaw Trading Estate Middleton M24 2SX, M24 2SX	Grant subject to conditions	19km
Map	0155/PDN	Rochdale	198		Installation of Telecommunications box/ pillar	28/04/16	Notification Acknowledged		Middleton M24 2SX, M24 2SX	Notification Acknowledged	5km²
Map	15/00102/TELE	Rochdale	355	Vodafone	Replacement of existing 16m high telecommunications pole with one 20m high dual user monopole inc...	28/01/15	Grant		Pavement Between 4 Hereford Way And 8 Hazel Road Middleton, 190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA	Grant	28km
Map	02/D39804	Rochdale	529		Determination Of Prior Approval For Proposal To Erect A 15M High Telecommunications Monopole With...	13/02/02	Refuse		190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA	Refuse	30km
Map	02/D40306	Rochdale	529		Determination Of Prior Approval For The Installation Of A 15 Metre High Telecommunications Telegr...	14/06/02	Refuse		190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA	Refuse	30km
Map	11/D54970	Rochdale	562		Determination Of Prior Approval To Install A 1.4M High Equipment Cabinet For BT Openreach	07/11/11	Unknown		Pavement At Corner Of 96 Rochdale Road And Radclyffe Street, Middleton, Land To The Front Of 2-6 Rochdale Road, Middleton, M24 6DP, M24 6DP	Unknown	29km
Map	18/00518/TELE	Rochdale	709	Arqiva	Prior approval for the installation of a 12 metre high smart metering pole together with 1 no. om...	04/05/18	Prior Approval Not Required	305693	Land At The Junction Of Long Street And Mellalieu Street, Middleton, Opposite 87 Highfield Street Middleton M24 2JR, M24 2JR	Prior Approval Not Required	31km
Map	11/D54936	Rochdale	759		Prior Approval For The Installation Of One Equipment Cabinet	24/10/11	Unknown		Adjacent To The Footway To The North Of The Junction Of	Unknown	29km
Map	0240/PDN	Rochdale	843		Proposed installation of telecommunications apparatus.	13/05/19	Notification Acknowledged			Notification Acknowledged	22km
Map	12/D55210	Rochdale	962		Determination Of Prior Approval To Install A 1.4 Metre High BT Equipment Cabinet	06/02/12	Decided			Decided	19km

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Signal Filter All Operators 10 Rows 500m Refresh

mcc	mnc	lac	cid	Σ	mtr	TX Date	Data Type	Tech	Avg Pwr	Max Pwr	Min Pwr	lac/cid
Link More  (234)	O ₂ Ltd.(10)	21877	57513033	1	➡ 52	24/03/2016 05:06:00 PM	Global Tx Data	UMTS 	0		0	21877: 57513033
Link More  (234)	Everyth. Ev.wh./T-Mobile(30)	2088	28890	1	⬅ 83	25/03/2016 10:17:00 AM	Global Tx Data	GSM 	0		0	2088: 28890
Link More  (234)	H3G Hutchinson(20)			1	⬅ 174	25/03/2021 11:58:00 AM	Other Location Data	603 	0		0	
Link More  (234)	Everyth. Ev.wh./T-Mobile(30)	1127	10283559	1	↓ 187	01/10/2015 01:29:00 PM	Global Tx Data	UMTS 	0		0	1127: 10283559
Link More  (234)	Everyth. Ev.wh./T-Mobile(30)	1127	10283561	1	⬅ 194	02/02/2016 12:04:00 PM	Global Tx Data	UMTS 	0		0	1127: 10283561
Link More  (234)	Everyth. Ev.wh./T-Mobile(30)	9566	262199277	1	⬅ 194	17/09/2015 09:00:00 AM	Global Tx Data	UMTS 	0		0	9566: 262199277
Link More  (234)	Everyth. Ev.wh./T-Mobile(30)	9053	262199277	1	⬅ 194	29/09/2015 08:27:00 AM	Global Tx Data	UMTS 	0		0	9053: 262199277
Link More  (234)	Vodafone(15)	115	57539855	1	⬅ 194	24/03/2016 11:31:00 AM	Global Tx Data	UMTS 	0		0	115: 57539855
Link More  (234)	Everyth. Ev.wh./T-Mobile(30)	11273	3659265	1	➡ 201	21/03/2016 08:28:00 PM	Global Tx Data	LTE 	0		0	11273: 3659265
Link More  (234)	Everyth. Ev.wh./T-Mobile(30)	9630	262199277	1	⬅ 238	10/10/2015 01:04:00 PM	Global Tx Data	UMTS 	0		0	9630: 262199277

Planning/Previous Work Footer

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	LPA	Map and summary for Rochdale telecoms applications
	Best Network Operator	BNO Map from Survey Data [BETA]
	1km Grid Line of Sight	Line of Sight Map - 1km Grid - Approx 19km2
	Radial Line of Sight [BETA]	Line of Sight Map - Radial [BETA]
	Application (LPA) Ref	19/00544/FUL
	Operator/Applicant	MBNL
	Agent	Waldon Telecom
	Site ID	1105587
	EE Cell ID	24138
	MBNL Cell ID	ROD044
	3UK Cell ID	M0088
	Status/Decision	Decided
	Agent Name	Dianne Perry
	Appeal Decision	Not Available
	Appeal Status	Unknown
	Application Type	Full Planning Application
	Decision	Grant subject to conditions
	Status	Decided
	Decision	Approved
	Plan Type	Planning
	Instruction Type	Replacement of existing 15m monopole with 20m high capacity monopole supporting 6 no. antenna apertures and 4 no. dishes, together with installation of 7 no. ground-based equipment cabinets, 1 no. meter cabinet within an existing 1.8m high palisade fenced compound and ancillary development
	Antenna	5G Antenna
	Main URL	View Application on Rochdale Website (External Link)
	Map View Site with masts	Map of Application with additional local masts
	MAP URL	View Map on Rochdale Website
	Document URL	View Documents/Drawings on Rochdale Website
	Address	, Land At Boarshaw Trading Estate Boarshaw Road Middleton M24 2SX, M24 2SX
	Location	Good Accuracy ()
	Lat/Long	53.55/-2.18
	Nearest UPRN	10090924039
	AMSL/AGL	92m(AMSL) 20.00m(AGL) 112.00m(AMSL+AGL)
	Population/UPRN Count	7320 residents within 1km
	Start/End	May 14 2019 12:00AM / Jul 9 2019 12:00AM
	View Addition	View map with all masts at this location
	Masts	
	Site Built? Add to Database	Click here to Add this Site to mastdata.com
	Support Ticket	22890:FOI8 (8/5/19 to 12/10/19)

Location of Work/Planning Application



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Map	Ref	Mtr	Nearest Mobile Phone Masts	Description	LoS
Map	T 24138		3 Boarshaw Trading Estate, M24 2SX		22km²
Map	M0088		84 Boarshaw Trading Estate, Heywood, Lancashire, M242SX	Three UMTS Sector	9km²
Map	44197		336 stanycliffe house, Cornerstone 9808_78626 - Hereford Way SF - Middl...		23km²
Map	78626		376 Hereford Way SW		24km²
Map	40832		497 HIGHER BOARSHAW, Cornerstone 9805_Vodafone 23231Tonge HallCHURCH ST...	O2 UMTS Sector	33km²
Map	23231		497 ROCHDALE ROAD I.E., CHURCH ST , Rochdale Road, MIDDLETON, Lancashir...	Vodafone UMTS Macro	31km²
Map	56078		526 T-Mobile Site, Heywood, Lancashire, M242GY	T-Mobile UMTS SECTOR	32km²
Map	M0263		526 Three Site, Heywood, Lancashire, M242GY	Three UMTS Sector	32km²
Map	3394		796 NTL (EX. IBA), NTL RADIO SITE, Lark Hill, MIDDLETON, Lancashire, M2...	Vodafone UMTS Macro	29km²
Map	GMN0517		796 ARQIVA MAST, ARQIVA MAST, NEAR TONGE HALL, WILLIAM STREET, MIDDLETON, ...		30km²

1 2

Map	LPA Ref	LPA	Mtr	Operator	Nearby/Related Planning Apps	Date	Decision	Ref	Address	Outcome	LoS
Map	0247/PDN	Rochdale		91	Installation of telecommunications apparatus.	02/09/19	Notification Acknowledged		Opposite Cotton Tree Inn 110 Boarshaw Road Middleton M24 2WH, M24 2WH Boarshaw Trading Estate Middleton M24 2SX, M24 2SX	Notification Acknowledged	9km²
Map	0155/PDN	Rochdale		106	Installation of Telecommunications box/ pillar	28/04/16	Notification Acknowledged		Boarshaw Trading Estate Middleton M24 2SX, M24 2SX	Notification Acknowledged	5km²
Map	15/00102/TELE	Rochdale		378	Vodafone	28/01/15	Grant		Pavement Between 4 Hereford Way And 8 Hazel Road Middleton, 190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA	Grant	28km²
Map	02/D39804	Rochdale		493	Determination Of Prior Approval For Proposal To Erect A 15M High Telecommunications Monopole With...	13/02/02	Refuse		190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA	Refuse	30km²
Map	02/D40306	Rochdale		493	Determination Of Prior Approval For The Installation Of A 15 Metre High Telecommunications Telegr...	14/06/02	Refuse		190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA	Refuse	30km²
Map	11/D54970	Rochdale		524	Determination Of Prior Approval To Install A 1.4M High Equipment Cabinet For RT Onenreach	07/11/11	Unknown		Pavement At Corner Of 96 Rochdale Road And	Unknown	29km²

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[Map](#)  [18/00518/TELE Rochdale](#)  629  Arqiva

Prior approval for the installation of a 12 metre high smart metering pole together with 1 no. om...
04/05/18 Prior Approval Not Required [305693](#)

Street, Middleton, Land To The Front Of 2-6 Rochdale Road, Middleton, M24 6DP, M24 6DP
Prior Approval Not Required [31km²](#)

[Map](#)  [11/D54936](#) [Rochdale](#)  674

Prior Approval For The Installation Of One Equipment Cabinet
24/10/11 Unknown

Land At The Junction Of Long Street And Mellalieu Street, Middleton, Opposite 87 Highfield Street Middleton M24 2JR, M24 2JR
Unknown [29km²](#)

[Map](#)  [0240/PDN](#) [Rochdale](#)  845

Proposed installation of telecommunications apparatus.
13/05/19 Notification Acknowledged

Notification Acknowledged [22km²](#)

[Map](#)  [12/D55210](#) [Rochdale](#)  870

Determination Of Prior Approval To Install A 1.4 Metre High BT Equipment Cabinet
06/02/12 Decided

Adjacent To The Footway To The North Of The Junction Of Long Street And Eastway, Middleton,
Decided [19km²](#)

Signal Filter

	mcc	mnc	lac	cid	Σ	mtr	TX Date	Data Type	Tech	Avg Pwr	Max Pwr	Min Pwr	lac/cid
Link More  gb (234)		 Everyth. Ev.wh./T-Mobile(30).	2088	28890	1	 34	25/03/2016 10:17:00 AM	Global Tx Data	GSM	 0	 0	 0	2088: 28890
Link More  gb (234)		 Everyth. Ev.wh./T-Mobile(30).	1127	10283559	1	 124	01/10/2015 01:29:00 PM	Global Tx Data	UMTS	 0	 0	 0	1127: 10283559
Link More  gb (234)		 O2 Ltd.(10)	21877	57513033	1	 124	24/03/2016 05:06:00 PM	Global Tx Data	UMTS	 0	 0	 0	21877: 57513033
Link More  gb (234)		 H3G Hutchinson(20)			1	 164	25/03/2021 11:58:00 AM	Other Location Data	603	 0	 0	 0	
Link More  gb (234)		 Vodafone(15)	115	57539855	1	 173	24/03/2016 11:31:00 AM	Global Tx Data	UMTS	 0	 0	 0	115: 57539855
Link More  gb (234)		 Everyth. Ev.wh./T-Mobile(30).	1127	10283561	1	 173	02/02/2016 12:04:00 PM	Global Tx Data	UMTS	 0	 0	 0	1127: 10283561
Link More  gb (234)		 Everyth. Ev.wh./T-Mobile(30).	9053	262199277	1	 173	29/09/2015 08:27:00 AM	Global Tx Data	UMTS	 0	 0	 0	9053: 262199277
Link More  gb (234)		 Everyth. Ev.wh./T-Mobile(30).	9566	262199277	1	 173	17/09/2015 09:00:00 AM	Global Tx Data	UMTS	 0	 0	 0	9566: 262199277
Link More  gb (234)		 Everyth. Ev.wh./T-Mobile(30).	9630	262199277	1	 246	10/10/2015 01:04:00 PM	Global Tx Data	UMTS	 0	 0	 0	9630: 262199277
Link More  gb (234)		 Everyth. Ev.wh./T-Mobile(30).	11273	3659264	1	 255	21/03/2016 08:28:00 PM	Global Tx Data	LTE	 0	 0	 0	11273: 3659264

Planning/Previous Work Footer

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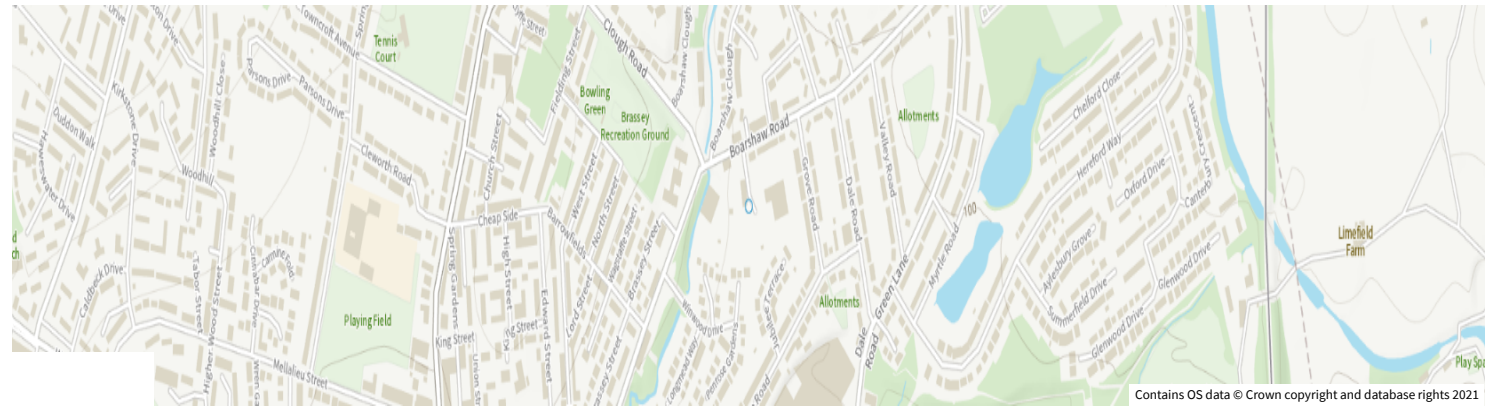
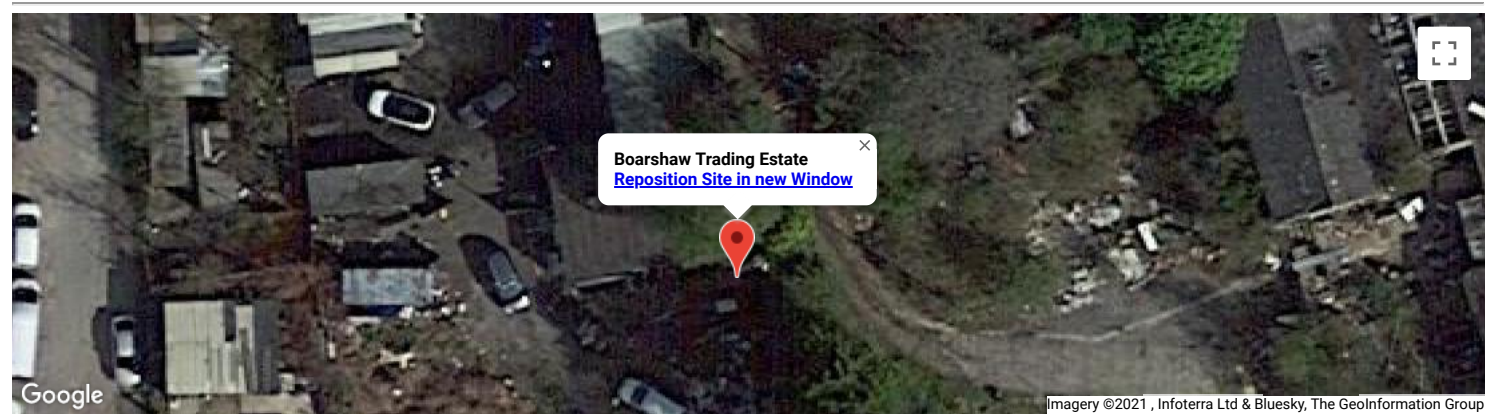
Mast missing? [Click here](#) to add sites

To view our new Radial LOS module, click on the "Line of Sight Map - Radial [BETA]" below

Mobile Mast 24138 - Boarshaw Trading Estate - Address / Site Details

Data Type	Value
Address	Boarshaw Trading Estate, M24 2SX
Ref	24138
Android Signal Survey	Mobile Signal Strength
MOLO/JV	EE
Radial Line of Sight [BETA]	Line of Sight Map - Radial [BETA]
Best Network Operator	BNO Map from Survey Data [BETA]
Site Share:	Single Site - 0
1km Grid Line of Sight	Line of Sight Map - 1km Grid - Approx 22km2 (Batch 574)
A>B Line of site	Line of site to 381 other masts (Batch 574)
Mcc/Mnc	234/30 Everyth. Ev.wh./T-Mobile
Data Source	Import TBA:Import TBA(20595)
Site Status	Transmitting
Location	Good Accuracy (Reviewed by User and updated using Google Map)
Difference(m)	106.942
Antenna	5G Antenna
East/North	387602/406539
Lat/Long	53.55/-2.18
AMSL/AGL	92m(AMSL) 20.00m(AGL) 112.00m(AMSL+AGL)
Population/UPRN Count	7323 residents within 1km
View On Google Map	View On Google Map with Measure Tool
Map Corrections	Reposition History: 2 Records
Planning Authority	Rochdale
Record Modified	Feb 24 2021 8:19AM by Admin Assistance, Mastdata

Update Site: Feedback



Map	Ref	Mtr	Nearest 3 Mobile Phone Masts (extended list with login)	Description	A>B	LoS
Map	M0088	85	Boarshaw Trading Estate, Heywood, Lancashire, M242SX	Three UMTS Sected	23.65546	9km2
Map	44197	333	stanycliffe house, Cornerstone 9808_78626 - Hereford Way SF - Middleton , , MANCHESTER, M24 2WB		2.86210	23km2
Map	78626	374	Hereford Way SW		2.25554	24km2
Map	40832	499	HIGHER BOARSHAW, Cornerstone 9805_Vodafone 23231Tonge HallCHURCH ST ,Middleton, Lancashire, M24 2LP	O2 UMTS Sected	0.90274	33km2

Mast missing? [Click here](#) to add sites

Map  56078	 528 T-Mobile Site, Heywood, Lancashire, M242GY	T-Mobile UMTS SECTOR	0.38673 32km²
Map  M0263	 528 Three Site, Heywood, Lancashire, M242GY	Three UMTS Sector	0.38673 32km²
Map  3394	 793 NTL (EX. IBA), NTL RADIO SITE, Lark Hill, MIDDLETON, Lancashire, M24 2JU, Heywood, Lancashire, M242JU	Vodafone UMTS Macro	0.69545 29km²
Map  GMN0517	 793 ARQIVA MAST, ARQIVA MAST, NEAR TONGE HALL, WILLIAM STREET, MIDDLETON, M24 2JT		0.98432 30km²
Map  103.85	 793 Middleton UHF Transmitter, Heywood, Lancashire, M242JX	Television Station (UHF Digital System)	1.27318 35km²

1 2

(BETA) Project 1: - Please Select -[1]

Map	LPA Ref	LPA	Mtr	Operator	Nearby/Related Planning Apps	Date	Decision	Ref	Address	Outcome	LoS
Map	 19/00544/FUL	Rochdale  3	 MBNL		Replacement of existing 15m monopole with 20m high capacity monopole supporting 6 no. antenna ape...	14/05/19	Grant subject to conditions	1105587  24138  ROD044  M0088	Land At Boarshaw Trading Estate Boarshaw Road Middleton M24 2SX, M24 2SX Opposite Cotton Tree Inn 110 Boarshaw Road Middleton M24 2WH, M24 2WH Boarshaw Trading Estate Middleton M24 2SX, M24 2SX	Grant subject to conditions	19km
Map	 0247/PDN	Rochdale  93			Installation of telecommunications apparatus.	02/09/19	Notification Acknowledged		Boarshaw Road Middleton M24 2WH, M24 2WH Boarshaw Trading Estate Middleton M24 2SX, M24 2SX	Notification Acknowledged	9km²
Map	 0155/PDN	Rochdale  104			Installation of Telecommunications box/ pillar	28/04/16	Notification Acknowledged		Middleton M24 2SX, M24 2SX Pavement Between 4 Hereford Way And 8 Hazel Road Middleton, 190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA	Notification Acknowledged	5km²
Map	 15/00102/TELE	Rochdale  375	 Vodafone		Replacement of existing 16m high telecommunications pole with one 20m high dual user monopole inc...	28/01/15	Grant		Middleton, 190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA Pavement Between 4 Hereford Way And 8 Hazel Road Middleton, 190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA	Grant	28km
Map	 02/D40306	Rochdale  496			Determination Of Prior Approval For The Installation Of A 15 Metre High Telecommunications Telegr...	14/06/02	Refuse		Middleton, Manchester, M24 2QA, M24 2QA Pavement Between 4 Hereford Way And 8 Hazel Road Middleton, 190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA	Refuse	30km
Map	 02/D39804	Rochdale  496			Determination Of Prior Approval For Proposal To Erect A 15M High Telecommunications Monopole With...	13/02/02	Refuse		Middleton, Manchester, M24 2QA, M24 2QA Pavement Between 4 Hereford Way And 8 Hazel Road Middleton, 190, Rochdale Road, Middleton, Manchester, M24 2QA, M24 2QA	Refuse	30km
Map	 11/D54970	Rochdale  527			Determination Of Prior Approval To Install A 1.4M High Equipment Cabinet For BT Openreach	07/11/11	Unknown		At Corner Of 96 Rochdale Road And Radclyffe Street, Middleton, Land To The Front Of 2-6 Rochdale Road, Middleton, M24 6DP, M24 6DP	Unknown	29km
Map	 18/00518/TELE	Rochdale  630	 Arqiva		Prior approval for the installation of a 12 metre high smart metering pole together with 1 no. om...	04/05/18	Prior Approval Not Required	305693	Rochdale Road, Middleton, M24 6DP, M24 6DP Land At The Junction Of Long Street And Mellalieu Street, Middleton,	Prior Approval Not Required	31km
Map	 11/D54936	Rochdale  674			Prior Approval For The Installation Of One Equipment Cabinet	24/10/11	Unknown		Land At The Junction Of Long Street And Mellalieu Street, Middleton,	Unknown	29km

Mast missing? [Click here](#) to add sites

1 2

Signal Filter														All Operators	▼	10 Rows	▼	All Technologies	▼	5km	▼	Single Operator Data	All Operator Data	Refresh
mcc		mnc		lac	cid	Σ	mtr	TX Date		Data Type	Tech	Avg Pwr	Max Pwr	Min Pwr	lac/cid									
	gb (234)		Everyth. Ev.wh./T-Mobile(30)	2088	28890	1	 38	25/03/2016 10:17:00 AM		Global Tx Data	GSM	 0	 0	 0	2088: 28890									
	gb (234)		Everyth. Ev.wh./T-Mobile(30)	1127	10283559	1	 120	01/10/2015 01:29:00 PM		Global Tx Data	UMTS	 0	 0	 0	1127: 10283559									
	gb (234)		O2 Ltd.(10)	21877	57513033	1	 124	24/03/2016 05:06:00 PM		Global Tx Data	UMTS	 0	 0	 0	21877: 57513033									
	gb (234)		H3G Hutchinson(20)			1	 167	25/03/2021 11:58:00 AM		Other Location Data	603	 0	 0	 0										
	gb (234)		Everyth. Ev.wh./T-Mobile(30)	9566	262199277	1	 169	17/09/2015 09:00:00 AM		Global Tx Data	UMTS	 0	 0	 0	9566: 262199277									
	gb (234)		Everyth. Ev.wh./T-Mobile(30)	1127	10283561	1	 169	02/02/2016 12:04:00 PM		Global Tx Data	UMTS	 0	 0	 0	1127: 10283561									
	gb (234)		Everyth. Ev.wh./T-Mobile(30)	9053	262199277	1	 169	29/09/2015 08:27:00 AM		Global Tx Data	UMTS	 0	 0	 0	9053: 262199277									
	gb (234)		Vodafone(15)	115	57539855	1	 169	24/03/2016 11:31:00 AM		Global Tx Data	UMTS	 0	 0	 0	115: 57539855									
	gb (234)		Everyth. Ev.wh./T-Mobile(30)	9630	262199277	1	 243	10/10/2015 01:04:00 PM		Global Tx Data	UMTS	 0	 0	 0	9630: 262199277									
	gb (234)		Everyth. Ev.wh./T-Mobile(30)	11273	3659264	1	 258	21/03/2016 08:28:00 PM		Global Tx Data	LTE	 0	 0	 0	11273: 3659264									

Map	TLR	Mtr	Work	Date	OpName	Ref	Address	E/N	OpType	Operator	LoS
Map	More		LOS	21/04/2009	BOARSHAW TRADING ESTATE 203883 TO OSBORNE MILL 203347	TNE162974 - LOS				Shop	MBNL
						24138	24138	25097			
Map	More	 104		12/02/2014	BOARSHAW TRADING ESTATE 203883	24138		B90463	M24 2SX	387602 406539	MBNL
Map	More	 499	Lease re-gearing	09/09/2011	ROCHDALE ROAD I.E.	23231	st14431		MANCHESTER,MANCHESTER	387195 406730	

ID	Additional Notes	Date	Subject	Memo
832013	Data Change	24/19/21	Address 5G Changed	[Address_5G] Changed from 'Null' to 'Jul 9 2019 12:00AM'
384861	Data Change	13/35/19	Structure Height Changed	[Address_Structure_Height] Changed from 'Null' to '20.00'
381528	Data Change	10/43/19	Address Location Status Changed	[Address_NGR_Type] Changed from Full Postcode [11] to Google Map Review [27]
223166	Data Change	20/44/18	Address Name Changed	[Address_Name] Changed from 'Site Ref:24138' to 'Boarshaw Trading Estate'

There are no Child Sites (Superseded / Alternative Data)

	Article Contents	
▼ Information	Information	Information / Instructions on how to perform the required tasks
▼ Web Links	Web Links	External Links

No		
1.	Operator Contact Detail	
1.1	 How do I contact the operators about the sites	
1.2	 We cannot assist with site enquires, please click this link for the operator contact details provided by ofcom	
2.	BRITISH TELECOMMUNICATIONS PLC	
2.1	British Telecommunications Plc, 81, Newgate Street, London. EC1A 7AJ	
2.2	Tel: +44 (0)20 7356 5000	
3.	EE LIMITED (EE, T-Mobile and Orange)	
3.1	EE Limited, Trident Place, Hatfield Business Park, Mosquito Way, Hatfield, Hertfordshire AL10 9BW	
3.2	Tel: +44 (0)1707 315000	
4.	TELEFÓNICA UK LIMITED	
4.1	Telefónica UK LIMITED, 260 Bath Road, Slough, Berkshire SL1 4DX	
4.2	Tel: +44 (0)113 272 2000	
5.	VODAFONE LIMITED	
5.1	Vodafone Limited, Vodafone House, The Connection, Newbury, Berkshire RG14 2FN	
5.2	Tel: +44 (0)1635 33251	
10.	The following contact details were provided by the Mobile Operators Association which is no longer in existence.	
12.	Media Enquiries	
12.1	 EE: 0845 373 7070 / ee@nelsonbostock.com	
12.2	 O2: 01753 565656 / pressoffice@o2.com	
12.3	 Three: 07454 959 715 / three@mww.com	
12.4	 Vodafone: 01635666777 / ukmediarelations@vodafone.com	
13.	Enquiries from Members of the Scottish/UK Parliaments or Northern Ireland/Welsh Assemblies	
13.1	 EE: public.affairs@ee.co.uk	
13.2	 Three: Public.Affairs@three.co.uk	
13.3	 Vodafone: govt.relations@vodafone.com	
14.	Enquiries from Local Planning Authorities	
14.1	 CTIL (on behalf of Vodafone and Telefónica): EMF.Enquiries@ctil.co.uk	
14.2	MBNL (EE and Three): Mark Shaw, Health & Safety and Community Affairs Manager Mark.shaw@mbnl.co.uk	
14.3	 EE: public.affairs@ee.co.uk	
14.4	 Three: William Comery, Community Affairs Manager william.comery@ericsson.com	
15.	Enquiries about specific sites	
15.1	 CTIL (on behalf of Vodafone and Telefónica): EMF.Enquiries@ctil.co.uk	
15.2	 EE: public.affairs@ee.co.uk	
15.3	 Three: william.comery@ericsson.com or Jane.evans@three.co.uk	
17.	BT Openreach	
17.1	 moving or taking away Openreach poles, cables, joint boxes or equipment - call 0800 783 2023 and pick option 1	
17.2	 reporting damage to some of our equipment - call 0800 023 2023 and pick option 1	

Further Help / Contact Details

Name	Mast Data (Estate Systems Ltd)
Phone	+44 (0)20 8144 8143
Email	info@mastdata.com

Francesca Margiotta

From: NRSWA <nrswa.nrswa@sky.uk>
Sent: 12 August 2021 16:24
To: Joe Shawyer
Subject: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL



Thank you for your enquiry.

Please be advised that Sky Telecommunications Services Ltd will not be affected by your proposal.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us by email at nrswa@sky.uk.

Regards



NRSWA Department
Sky UK - Technology - Operations



nrswa@sky.uk



+44 2070323234

From: Joe Shawyer <JShawyer@groundwise.com>
Sent: 11 August 2021 14:58
To: osm.enquiries@atkinsglobal.com; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; plantenquiries@catelecomuk.com; OPBuriedServicesEnquiries@networkrail.co.uk; plantenquiries@trafficmaster.co.uk; assetrecords@utilityassets.co.uk; NRSWA <nrswa.nrswa@sky.uk>; mbnl.plant.enquiries@turntown.com; enquiries@eclipsepower.co.uk
Cc: Francesca Margiotta <FMargiotta@groundwise.com>
Subject: [EXTERNAL] 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Ref: 28617FM
Site: Phoenix Works, Brookes St, Middleton, Manchester M24 2WL
Easting/Northing: 387700,406631
Requests:

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

Groundwise Ref: 28617FM

Our Ref: Ref shown on map

Date of issue: shown on map

email: nnhc@openreach.co.uk

Dear Customer,

NR & SW ACT 1991 – PROPOSED WORKS AT: Phoenix Works, Brookes St, Middleton, Manchester, M24 2WL

Prior to commencement of work: For free onsite guidance and accurate up to date location of BT Apparatus please contact our Plant Protection Service by the following methods:-

Email the Click Before You Dig Team CBYD@openreach.co.uk

Visit the Click Before You Dig Website www.openreach.co.uk/cbyd

Thank you for your request of 25/08/2021 describing the above proposals.

Enclosed are copies of our drawings marked up to show the approximate locations of BT apparatus in the immediate vicinity of your works. It is intended for general guidance only. No guarantee is given of its accuracy.

The drawings are valid for 90 days from the date of issue and should not be relied upon after this time period has expired.

When planning excavation work or other works near to BT apparatus, please be mindful our apparatus may exist at various depths and may deviate from the marked route.

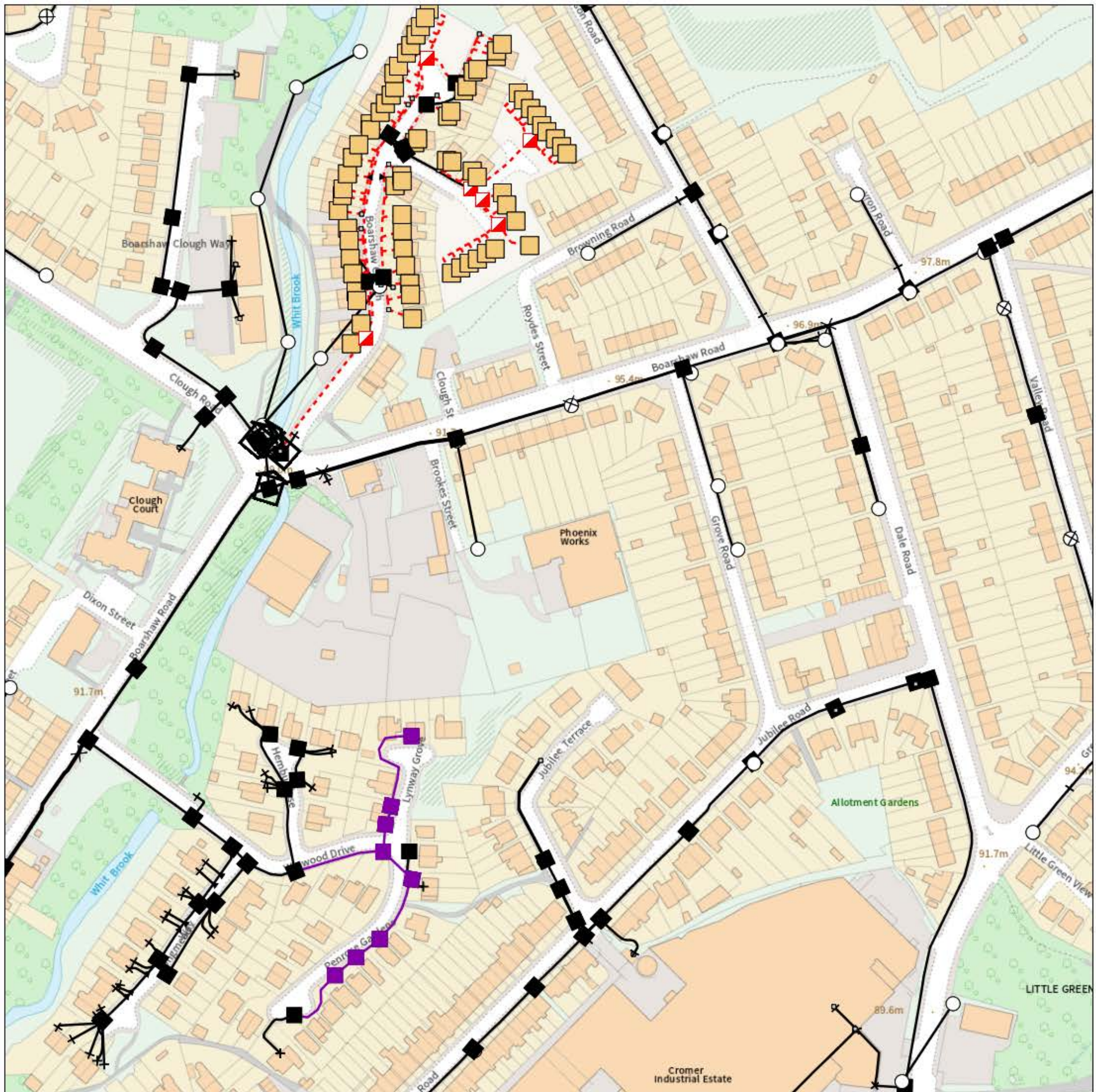
To avoid damage it is recommended that mechanical excavators or borers are not used within 600mm of BT apparatus. If scaffolding is erected, please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by the scaffolding.

In the event of BT apparatus being in the area of your works we recommend that your plant/vehicle crossing is either resited, or apply for a budget estimate by submitting detailed plans to our Network Relocation Team at <https://www.ournetwork.openreach.co.uk/altering-our-network.aspx>

Yours faithfully,

Julie Cullum
NNHC & MBE Manager

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.



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CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 023 (opt 1 + opt 1) and we can get it fixed ASAP

KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			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 time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : NEC10394J

Map Reference : (centre) SD8772106619

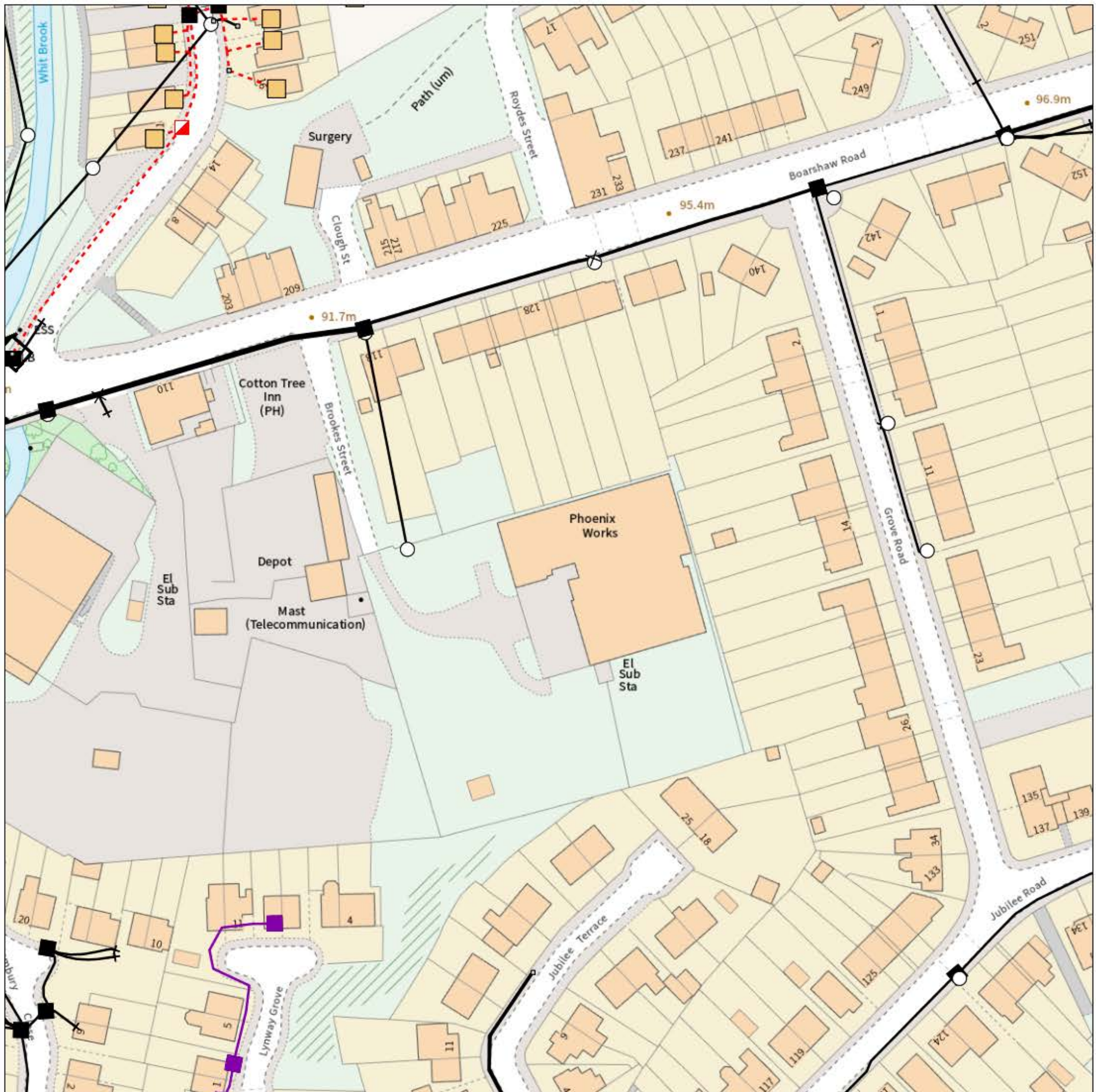
Easting/Northing : (centre) 387721,406619

Issued : 25/08/2021 10:40:04

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WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

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.



openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email cbyd@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP				Planned	
Pole				Inferred	
Box				Duct	
Manhole				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 time of preparation. Maps are only valid for 90 days after the date of publication.	
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

BT Ref : TUW10439S

Map Reference : (centre) SD8772106619

Easting/Northing : (centre) 387721,406619

Issued : 25/08/2021 10:43:23

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Francesca Margiotta

From: Plantenquiries <plantenquiries@catelecomuk.com>
Sent: 31 August 2021 14:57
To: Francesca Margiotta
Subject: RE: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Please Note: Our search criteria has changed. We previously searched for Colt Network which was within 200 metres, this has now changed to 50 metres. The negative response will be for all enquiries that the network is 50 metres or more away from the place of enquiry.

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

We can confirm that Colt Technology Services do not have apparatus near the above location as presented on your submitted plan, if any development or scheme amendments fall outside the 50 metre perimeter new plans must be submitted for review.

Search is based on Overseeing Organisation Agent data supplied; we do not accept responsibility for O.O. Agent inaccurate data.

If we can be of any further assistance please do not hesitate to contact us.

Kind regards,

Plant Enquiry Team



Please consider the environment before printing this email.

This e-mail and any files transmitted with it are confidential and are intended solely for the use of the intended recipient(s). If you are not the intended recipient, you must not copy, distribute or take any action based on this communication. If you have received this communication in error please contact plantenquiries@catelecomuk.com and delete this communication and any copies of it. Any views or opinions presented are solely those of the author and do not necessarily represent those of C A Telecom LTD. C A Telecom LTD monitors e-mails to ensure that its systems operate effectively and to minimise the risk of viruses.

From: Joe Shawyer <JShawyer@groundwise.com>
Sent: 11 August 2021 14:58
To: osm.enquiries@atkinsglobal.com; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; Plantenquiries <plantenquiries@catelecomuk.com>; OPBuriedServicesEnquiries@networkrail.co.uk; plantenquiries@trafficmaster.co.uk; assetrecords@utilityassets.co.uk; NRSWA@sky.uk;

Francesca Margiotta

From: online.plantenquiries@cityfibre.com
Sent: 25 August 2021 10:40
To: Francesca Margiotta
Subject: CityFibre Plant Enquiry, issued on 8/25/21 9:40 AM. Reference 3ece1cb2-dbf7-43aa-b60e-d7972acf625f.
Attachments: emap.pdf

You recently requested information pertaining to the above location and in relation to CityFibre Holdings Ltd plant.

Reference 3ece1cb2-dbf7-43aa-b60e-d7972acf625f

User: User

Title: 28617FM

Comment:

Please find attached a plan of the area of your interest that may contain plant which may be affected by your proposed works.

The validity of this response is 6 weeks, after such time a new enquiry would need to be made.

Please see the points of contact below if they are required:

Plant Enquiries
Rutherford House
Birchwood Park
Warrington
WA3 6ZH
asset.team@cityfibre.com

Please quote the Reference ID in the subject line in any correspondence.

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Plant Enquiries [CityFibre]

0203 5100 602

Our Full Fibre network is expanding fast. Check if you can get connected, and register for updates at [cityfibre.com<https://www.cityfibre.com/?utm_source=Staff%20Email%20Signature&utm_medium=Email&utm_campaign=Cityfibreemail>](https://www.cityfibre.com/?utm_source=Staff%20Email%20Signature&utm_medium=Email&utm_campaign=Cityfibreemail)

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Disclaimer:



bitmap_layout select_raster

LEGEND

- EXISTING PLANT
- EXISTING PLANT

bitmap_layout select_raster

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE
Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH
Email: asset.team@cityfibre.com

Disclaimer:

Information shown on this plan is for general guidance only.
No warranty is made as to its accuracy.
This plan must not be solely relied upon in the event of
excavation or other works being carried out in the vicinity
of Cityfibre plant.
No liability of any kind is accepted by Cityfibre, its agents or
servants for any error, omission, discrepancy or
deviation. This information is valid for the date printed.

Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

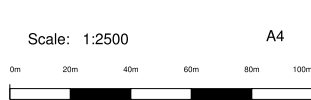
Date: 25/08/2021

Drawing No.

CFH_EP_000001

Revision

001



Francesca Margiotta

From: Plantenquiries <Plantenquiries@instalcom.co.uk>
Sent: 12 August 2021 10:53
To: Francesca Margiotta
Subject: RE: E08-21-2697 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Dear Sir or Madam,

Thank you for your plant enquiry below.

We can confirm that Lumen Technologies (formerly CenturyLink Communications UK Limited, Level 3, Global Crossing (Uk) Ltd, Global Crossing PEC, Fibernet UK Ltd and Fibrespan Ltd) do not have any apparatus within the indicated works area.

Instalcom responds to plant enquiries for all of the above and therefore you only need send one plant enquiry to cover all of these companies.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: plantenquiries@instalcom.co.uk
Web: <http://www.instalcom.co.uk>



From: Joe Shawyer <JShawyer@groundwise.com>
Sent: 11 August 2021 14:58
To: osm.enquiries@atkinsglobal.com; Plantenquiries <Plantenquiries@instalcom.co.uk>; osp-team@uk.verizonbusiness.com; plantenquiries@catelecomuk.com; OPBuriedServicesEnquiries@networkrail.co.uk; plantenquiries@trafficmaster.co.uk; assetrecords@utilityassets.co.uk; NRSWA@sky.uk; mbnl.plant.enquiries@turntown.com; enquiries@eclipsepower.co.uk
Cc: Francesca Margiotta <FMargiotta@groundwise.com>
Subject: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL



General Information

Fibre Optic cables are susceptible to vibration damage; please ensure that the use of mechanical excavators in the vicinity of our apparatus is kept to a minimum.

Hand dig techniques are recommended within a minimum of 500mm of the vicinity of KCOM apparatus.

Care should be taken when removing street furniture where their foundations may be in close proximity to this Company's apparatus.

Should KCOM's apparatus sustain damage as a result of your operations then any necessary remedial works would be carried out at cost to yourselves.

Any street furniture whether replacement or new installation should not be positioned directly over this Company's apparatus or positioned so as to restrict or prevent access to the apparatus.

A minimum separation of 150mm between your foundations and KCOM apparatus is required.

Should you require any further information, do not hesitate to contact – NRASWA@KCOM.COM

In the case of any damage to KCOM apparatus please contact 01482 603466 – this is a 24/7 contact line.



Important Warning Information regarding the location of KCOM apparatus is given for your assistance and is intended for general guidance only. It should not be relied upon in the event of excavation or other works being made near to KCOM apparatus which may exist at various depths and may deviate from the marked route. No guarantee is given on accuracy.	Please Note: This plant information is only valid for 3 months from the date on this print out.			25/08/2021	1:1250
	Legend	Duct Route	Planned Duct	KCOM	
	Joining Chamber	Manhole	Planned Chamber		
	Pole	Carrier Pole	Planned Pole		

Francesca Margiotta

From: MBNLplantenquiries <mbnl.plant.enquiries@turntown.com>
Sent: 11 August 2021 15:00
To: Francesca Margiotta
Subject: RE: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Turner & Townsend Confidential

Dear Sir/Madam

Turner & Townsend Project Management are appointed on behalf of MBNL to conduct Plant (apparatus) Searches in accordance with the relevant NRSWA Act 1991- Diversionary Works legislation. These searches considered plant belonging to EE (T-Mobile and Orange sites) and the HG3 mobile telecommunication networks.

Further to your plant enquiry please see the response below to the NRSWA request submitted:

MBNL do not have any plant that would be affected by the proposed work. Should you have any further queries please use the contact details below.

PS: Please can you send all future Plant enquiries for EE or H3G to this email address:
mbnl.plant.enquiries@turntown.com

Thank you.

Kind regards,

MBNL SHQE Team

Turner & Townsend
t: 0121 262 3663 | www.turnerandtowntsend.com
Turner & Townsend Europe Limited
Registered office: Low Hall, Calverley Lane, Horsforth, Leeds LS18 4GH, United Kingdom | Registered in England and Wales | Registration No: 3514794

From: Joe Shawyer <JShawyer@groundwise.com>
Sent: 11 August 2021 14:58
To: osm.enquiries@atkinsglobal.com; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; plantenquiries@catelecomuk.com; OPBuriedServicesEnquiries@networkrail.co.uk; plantenquiries@trafficmaster.co.uk; assetrecords@utilityassets.co.uk; NRSWA@sky.uk; MBNLplantenquiries <mbnl.plant.enquiries@turntown.com>; enquiries@eclipsepower.co.uk
Cc: Francesca Margiotta <FMargiotta@groundwise.com>
Subject: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

"Don't get caught out" - This email has come from an external source. Do not click on any links or open any attachments unless you are expecting them.

Ref: 28617FM
Site: Phoenix Works, Brookes St, Middleton, Manchester M24 2WL
Easting/Northing: 387700,406631
Requests:

Francesca Margiotta

From: TM Plant Enquiries <plantenquiries@trafficmaster.co.uk>
Sent: 18 August 2021 09:16
To: Francesca Margiotta
Subject: Re: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Our ref: Damian Sweeney TEL: 01234759112 or 07712129249

New Roads and Street Works Act 1991- Sections 83, 84,142 and 143 Codes of Practice Appendix C2

In response to your notice regarding works which you, are proposing to undertake.

I can confirm that *Trafficmaster* does not have equipment installed within the boundary of the works.

If you have any further queries regarding this or any other programme, please do not hesitate to contact me on my details below.

Yours sincerely
For & on Behalf of
Trafficmaster Ltd

Infrastructure Maintenance
plantenquiries@trafficmaster.co.uk

From: Joe Shawyer <JShawyer@groundwise.com>
Sent: Wednesday, August 11, 2021 1:57 PM
To: osm.enquiries@atkinsglobal.com <osm.enquiries@atkinsglobal.com>; plantenquiries@instalcom.co.uk <plantenquiries@instalcom.co.uk>; osp-team@uk.verizonbusiness.com <osp-team@uk.verizonbusiness.com>; plantenquiries@catelecomuk.com <plantenquiries@catelecomuk.com>; OPBuriedServicesEnquiries@networkrail.co.uk <OPBuriedServicesEnquiries@networkrail.co.uk>; TM Plant Enquiries <plantenquiries@trafficmaster.co.uk>; assetrecords@utilityassets.co.uk <assetrecords@utilityassets.co.uk>; NRSWA@sky.uk <NRSWA@sky.uk>; mbnl.plant.enquiries@turntown.com <mbnl.plant.enquiries@turntown.com>; enquiries@eclipsepower.co.uk <enquiries@eclipsepower.co.uk>
Cc: Francesca Margiotta <FMargiotta@groundwise.com>
Subject: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

CAUTION: This email originated from outside the company.

Ref: 28617FM
Site: Phoenix Works, Brookes St, Middleton, Manchester M24 2WL
Easting/Northing: 387700,406631
Requests:

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the

Francesca Margiotta

From: UK OSP-Team <osp-team@uk.verizon.com>
Sent: 12 August 2021 14:18
To: Francesca Margiotta
Cc: UK OSP-Team
Subject: RE: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

We have reviewed your plans and have determined that Verizon (Formally known as MCI WorldCom, MFS) has no apparatus in the areas concerned.

If you have any further queries please do not hesitate to get in touch.

Yours faithfully

Plant Protection Officer E.mail osp-team@uk.verizon.com

From: Joe Shawyer [mailto:JShawyer@groundwise.com]
Sent: 11 August, 2021 2:58 PM
To: osm.enquiries@atkinsglobal.com; plantenquiries@instalcom.co.uk; UK OSP-Team <osp-team@intl.verizon.com>; plantenquiries@catelecomuk.com; OPBuriedServicesEnquiries@networkrail.co.uk; plantenquiries@trafficmaster.co.uk; assetrecords@utilityassets.co.uk; NRSWA@sky.uk; mbnl.plant.enquiries@turntown.com; enquiries@eclipsepower.co.uk
Cc: Francesca Margiotta <FMargiotta@groundwise.com>
Subject: [E] 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Ref: 28617FM
Site: Phoenix Works, Brookes St, Middleton, Manchester M24 2WL
Easting/Northing: 387700,406631
Requests:

For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

I enclose location plans of the site for your convenience and look forward to hearing from you. We shall of course be providing a copy of your response to our client as part of a wider report on the site including reports from other utility companies or providers.

Should you have any problems in identifying the location of the sites or should you require further clarification of the details requested, please do not hesitate to contact me.

I look forward to receiving details from you and thank you in advance for your assistance in this matter.

Kind regards,



(c) Crown copyright and database rights 2021 Ordnance Survey 100019209
Data updated: 01/08/21

Scale: 1:1250
Map Centre: 387721,406619

Date: 25/08/21
Our Ref: 633189 - 1

Telecoms Plan A3
Powered by digdat

Duct, Trench

Chamber

Cabinet

mail@groundwise.com

28617FM



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 2021 Ordnance Survey 100019209.

Francesca Margiotta

From: Abdul Shukur, Shaik <Shaik.AbdulShukur@atkinsglobal.com>
Sent: 13 August 2021 11:21
To: Francesca Margiotta
Subject: RE: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Please accept this email as confirmation that Vodafone: Fixed **does not** have apparatus within the vicinity of your proposed works detailed below.

Many thanks.

Plant Enquiries Team
T: +44 (0)1454 662881
E: osm.enquiries@atkinsglobal.com

ATKINS working on behalf of Vodafone: Fixed



This response is made only in respect to electronic communications apparatus forming part of the Vodafone Limited electronic communications network formerly being part of the electronic communications networks of Cable & Wireless UK, Energis Communications Limited, Thus Group Holdings Plc and Your Communications Limited.

PLEASE NOTE:

The information given is indicative only. No warranty is made as to its accuracy. This information must not be solely relied upon in the event of excavation or other works carried out in the vicinity of Vodafone plant. No liability of any kind whatsoever is accepted by Vodafone, its servants, or agents, for any error or omission in respect of information contained on this information. The actual position of underground services must be verified and established on site before any mechanical plant is used. Authorities and contractors will be held liable for the full cost of repairs to Vodafone's apparatus and all claims made against them by Third parties as a result of any interference or damage.

IMPORTANT - PLEASE READ:

Diversionary works may be necessary if the existing line of the highway/railway or its levels are altered, where apparatus is affected. Where apparatus is affected and requires diversion, you must submit draft details of the proposed scheme with a request for a 'C3 Budget Estimate' to c3requests@vodafone.com. These estimates should be provided by Vodafone normally within 20 working days from receipt of your request. Please include proof of this C2 response when requesting a C3 (using the 'forward' option).



Please consider the environment before printing this e-mail

From: Joe Shawyer <JShawyer@groundwise.com>
Sent: 11 August 2021 19:28
To: National Plant Enquiries <OSM.enquiries@atkinsglobal.com>; plantenquiries@instalcom.co.uk; osp-team@uk.verizonbusiness.com; plantenquiries@catelecomuk.com; OPBuriedServicesEnquiries@networkrail.co.uk; plantenquiries@trafficmaster.co.uk; assetrecords@utilityassets.co.uk; NRSWA@sky.uk; mbnl.plant.enquiries@turntown.com; enquiries@eclipsepower.co.uk
Cc: Francesca Margiotta <FMargiotta@groundwise.com>
Subject: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

Ref: 28617FM
Site: Phoenix Works, Brookes St, Middleton, Manchester M24 2WL
Easting/Northing: 387700,406631
Requests:

Francesca Margiotta

From: Andy Key (Distribution Administrator) <Andy.Key2@networkrail.co.uk> on behalf of OP Buried Services Enquiries <OPBuriedServicesEnquiries@networkrail.co.uk>
Sent: 11 August 2021 16:11
To: Francesca Margiotta
Subject: RE: 28617FM - Phoenix Works, Brookes St, Middleton, Manchester M24 2WL

OFFICIAL

Dear Sir/Madam,

With regards to your enquiry, Network Rail does not believe there is any Network Rail owned apparatus or underground services within the area you have defined. As there is always the possibility that new works could be planned and undertaken in this area by Network Rail this information is valid as at today's date and is supplied for general guidance only.

Please be aware that this response is based on Network Rail's records and knowledge and no guarantee can be given regarding accuracy or completeness. CAT scans, safe digging practices (as contained in HSE publications) and other appropriate investigative techniques should always be carried out.

There may be other apparatus or underground services owned or operated by Utility Companies and accordingly you should contact individual utilities for information.

If, in connection with your investigations and/or work, you become aware of Network Rail apparatus or underground services within your area of work, please ensure these are notified to our Asset Protection team via the following link as a matter of urgency so that appropriate measures for avoidance of risk and damage can be put in place.

Contact details can be found in the following link: [Network Rail Asset Protection Teams](#)

If you require any further clarification on any of the information please contact opburiedservicesenquiries@networkrail.co.uk.

Regards,

Andy Key

Distribution Administrator



Worksite Survey | Asset Information Services

National Records Centre | Audax Road | York YO30 4US

E: andy.key2@networkrail.co.uk

W: www.networkrail.co.uk

Advanced notice of absence:

HSE's Advice

Your development does not intersect a pipeline or hazard zone, HSE Planning Advice does not have an interest in the development.

Our Reference : **HSL-210825104143-963**

Your Reference : **28617FM**

Development Name :

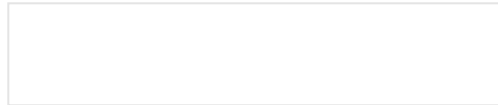
Date Created : **25/08/2021 10:41:43**

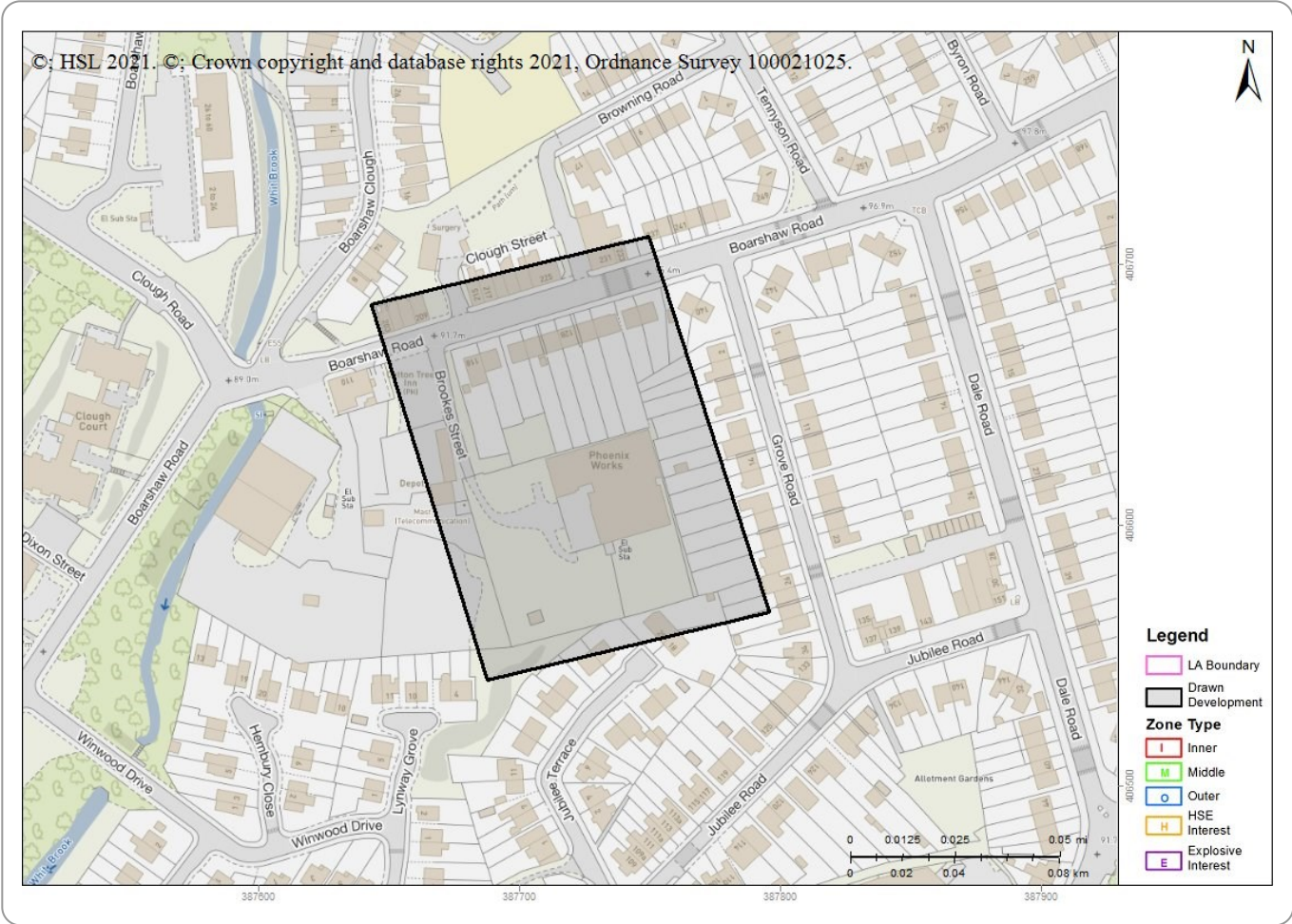
Description/Comments : **STUDY**

Created By : **FMARGIOTTA@GROUNDWISE.COM**

Phase 1 documents
No HI/MHP Interest Report
(../Download/File/?HSLRefer=HSL-
210825104143-
963&DownloadType=HSEHasNoInterest)

Please check all mapping details, including
the drawn planning boundary and
background mapping, are correct.





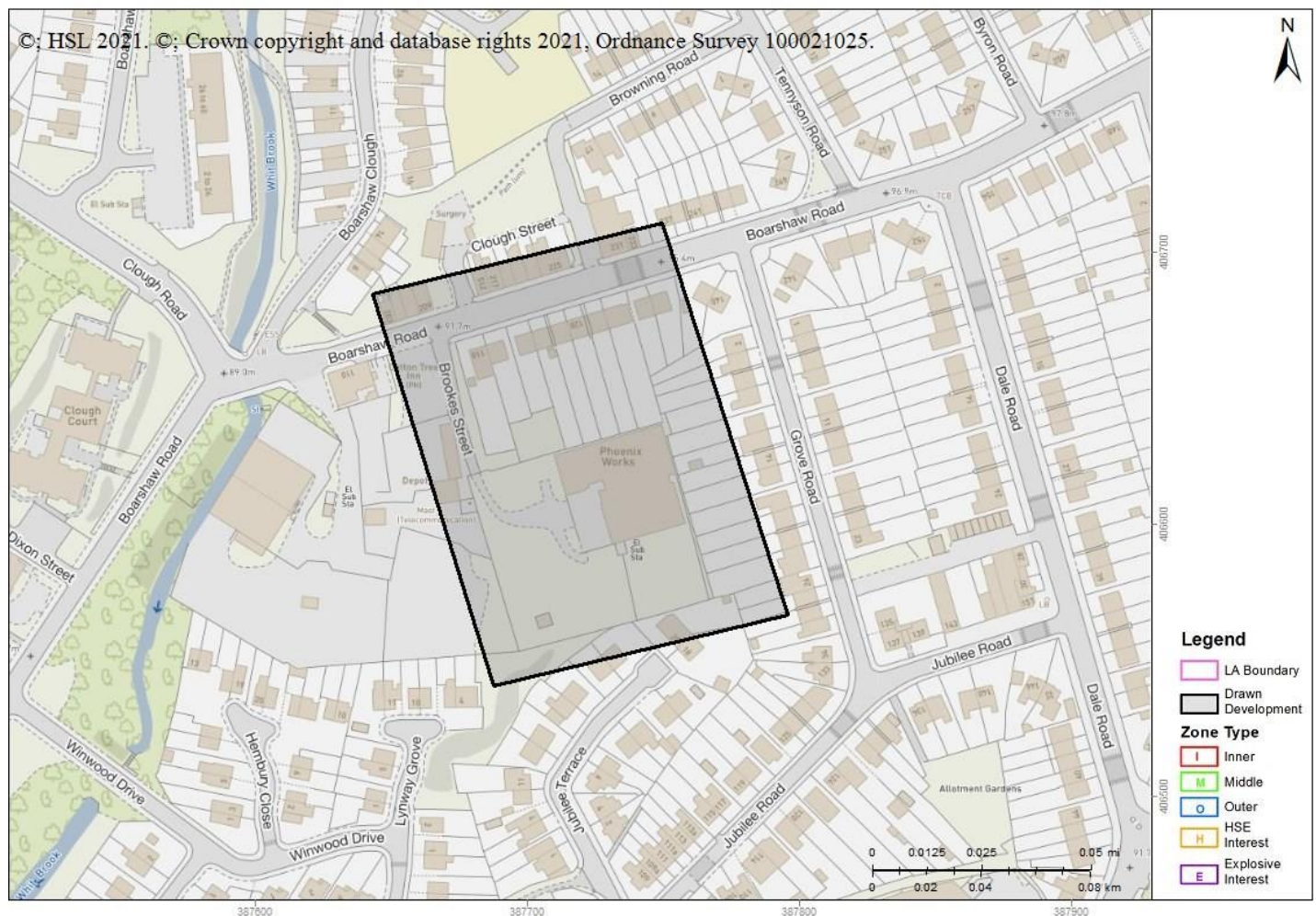
Menu

Advice : HSL-210825104143-963 Does Not Cross Any Consultation Zones

Your Ref: 28617FM

Development Name:

Comments: STUDY



The proposed development site which you have identified does not currently lie within the consultation distance (CD) of a major hazard site or major accident hazard pipeline; therefore at present HSE does not need to be consulted on any developments on this site. However, should there be a delay submitting a planning application for the proposed development on this site, you may wish to approach HSE again to ensure that there have been no changes to CDs in this area in the intervening period.

This advice report has been generated using information supplied by Francesca Margiotta at Groundwise Searches Ltd on 25 August 2021.

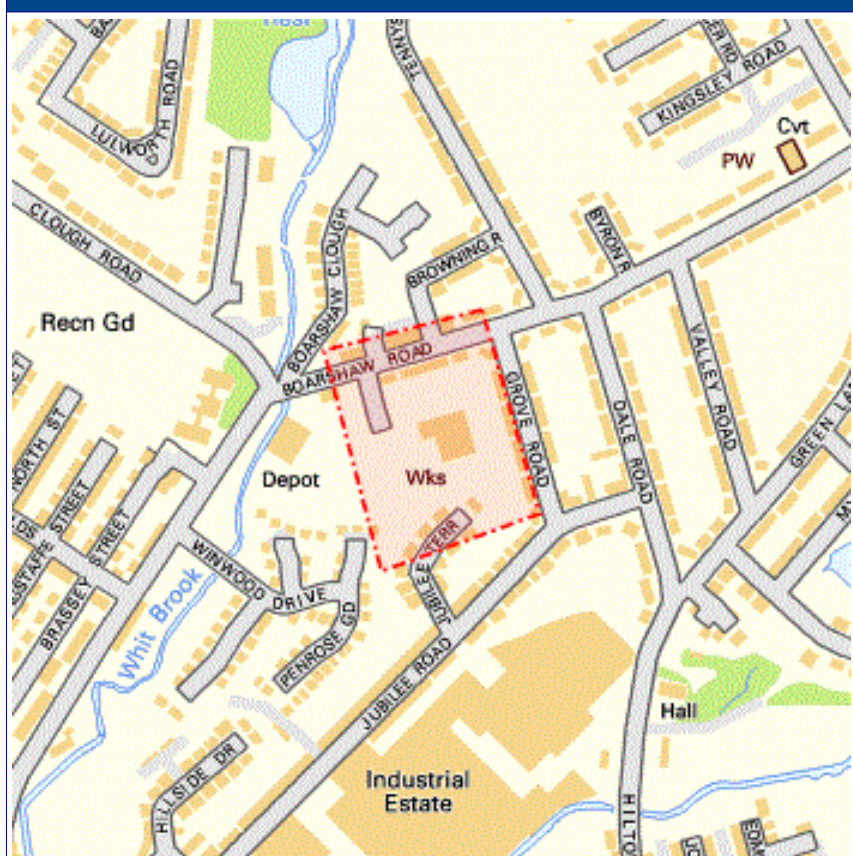
Enquirer

Name	Mr Joe Shawyer	Phone	01702615566
Company	Groundwise Searches Ltd	Mobile	Not Supplied
Address	Suite 6 Princess Caroline House 1 High Street Southend on Sea Essex SS1 1JE		
Email	mail@groundwise.com		

Enquiry Details

Scheme/Reference	28617		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	12/08/2021	Work type	Commercial/industrial
End date	13/09/2021	Site size	25309 metres square
Searched location	XY= 387717, 406616	Work type buffer*	75 metres
Confirmed location	387721 406619		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works			

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map


Asset Owners

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lineasearchbeforeudig.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

Notes. Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LineasearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Asset Owners & Responses. Please note the enquiry results include the following:

1. "LSBUD Members" who are asset owners who have registered their assets on the LSBUD service.
2. "Non LSBUD Members" are asset owners who have not registered their assets on the LSBUD service but LSBUD is aware of their existence. Please note that there could be other asset owners within your search area.

Below are three lists of asset owners:

1. LSBUD Members who have assets registered within your search area. ("Affected")
 - a. These LSBUD Members will either:
 - i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.
 - ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.
2. LSBUD Members who do not have assets registered within your search area. ("Not Affected")
3. Non LSBUD Members who may have assets within your search area. Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members

Asset Owner	Phone/Email	Emergency Only	Status
Cadent Gas	0800688588	0800111999	Await response
Electricity North West Limited	08001954141	08001954141	Await response

LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.

List of not affected LSBUD members

AWE Pipeline	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
Box Broadband	BP Exploration Operating Company Limited	BPA
Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	Diamond Transmission Corporation	DIO (MOD Abandoned Pipelines)
DIO (MOD Live Pipelines)	E.ON UK CHP Limited	EirGrid
ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited	EP Langage Limited
ESP Utilities Group	ESSAR	Esso Petroleum Company Limited
euNetworks Fiber UK Ltd	Exolum Pipeline System	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Gtt	Harbour Energy
Heathrow Airport LTD	Humbly Grove Energy	IGas Energy
INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited
INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd
Last Mile	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
Murphy Utility Assets	National Grid Electricity Transmission	National Grid Gas Transmission
Neos Networks	Northumbrian Water Group	NPower CHP Pipelines
NTT Global Data Centers EMEA UK Ltd	NYnet Ltd	Oikos Storage Limited
Ørsted	Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos
Phillips 66	Portsmouth Water	Premier Transmission Ltd (SNIP)
Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)
SABIC UK Petrochemicals	Scottish and Southern Electricity Networks	Scottish Power Generation
Seabank Power Ltd	SES Water	SGN
Shell	Shell NOP	SSE Generation Ltd
SSE Transmission	SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)
Total Colnbrook Pipelines	Total Finaline Pipelines	Transmission Capital
		University of Cambridge Granta Backbone

UK Power Networks	Uniper UK Ltd	Network
Vattenfall	Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd
VPI Power Limited	Wales and West Utilities	West of Duddon Sands Transmission Ltd
Western Power Distribution	Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd

The following Non-LSBUD Members may have assets in your search area. It is **YOUR RESPONSIBILITY** to contact them before proceeding. Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.

Non-LSBUD members (Asset owners not registered on LSBUD)			
Asset Owner	Preferred contact method	Phone	Status
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CenturyLink Communications UK Limited	plantenquiries@instalcom.co.uk	02087314613	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
ENGIE	nrswa.uk@engie.com	01293 549944	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Sota	SOTA.plantenquiries@instalcom.co.uk		Not Notified
United Utilities	WastewaterDeveloperServices@uuplc.co.uk	08707510101	Not Notified
Utility assets Ltd	enquiries@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

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Groundwise Searches Ltd

Suite 6, Princess Caroline House
1 High Street,
Southend on Sea, ESSEX
SS1 1JE

FAO:

How to contact us:

United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

Your Ref: 28617
Our Ref: UUPS-ORD-316511
Date: 17/08/2021

Dear Sirs

Location: 28617

I acknowledge with thanks your request dated 11/08/2021 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,



Karen McCormack
Property Searches Manager

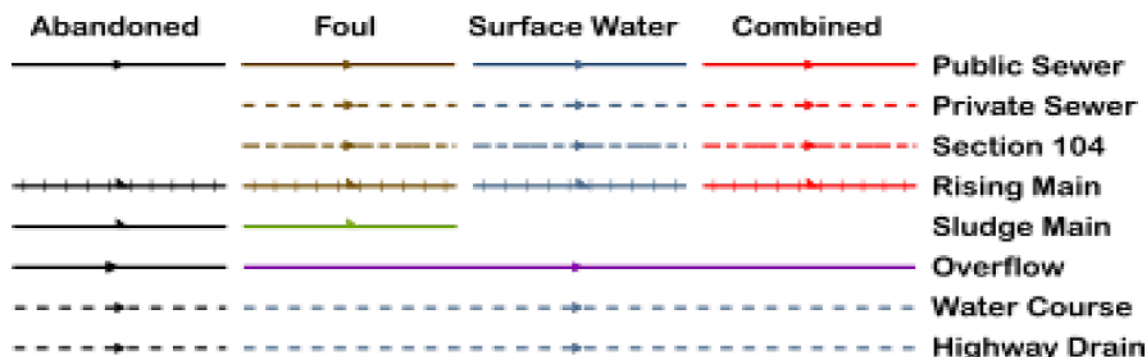
TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

TERMS AND CONDITIONS:

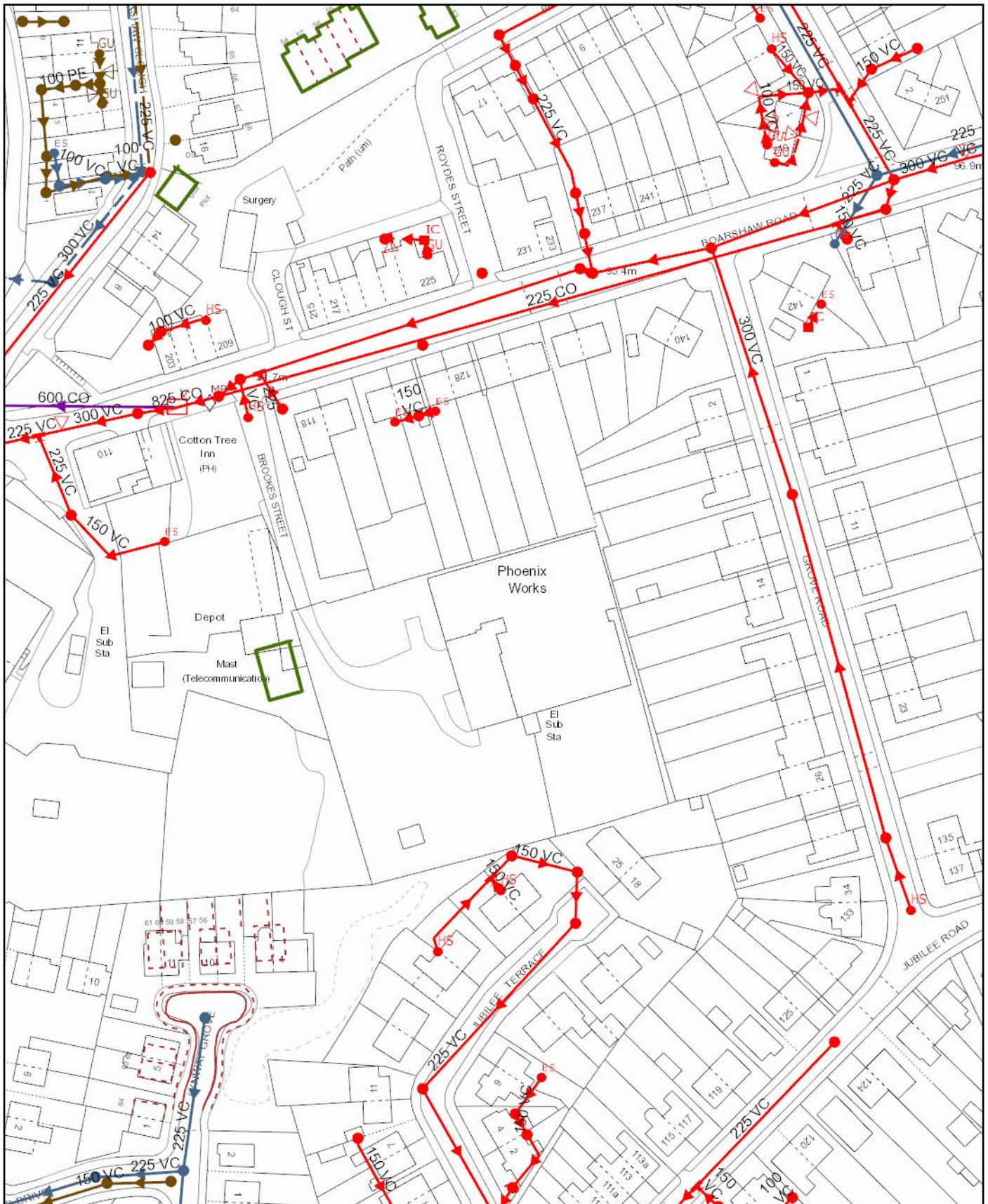
- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

Wastewater Symbolology



All point assets follow the standard colour convention: **red** – combined **brown** - foul
blue – surface water **purple** - overflow

Manhole	Side Entry Manhole
Head of System	Outfall
Extent of Survey	Screen Chamber
Rodding Eye	Inspection Chamber
Inlet	Bifurcation Chamber
Discharge Point	Lamp Hole
Vortex	T Junction / Saddle
Penstock	Catchpit
Washout Chamber	Valve Chamber
Valve	Vent Column
Air Valve	Vortex Chamber
Non Return Valve	Penstock Chamber
Soakaway	Network Storage Tank
Gully	Sewer Overflow
Cascade	Ww Treatment Works
Flow Meter	Ww Pumping Station
Hatch Box	Septic Tank
Oil Interceptor	Control Kiosk
Summit	
Drop Shaft	Change of Characteristic
Orifice Plate	



Scale: 1:1250
Date: 17/08/2021

SEWER RECORDS



Water for the North West

Address or Site Reference: 28617

Printed by: Property Searches

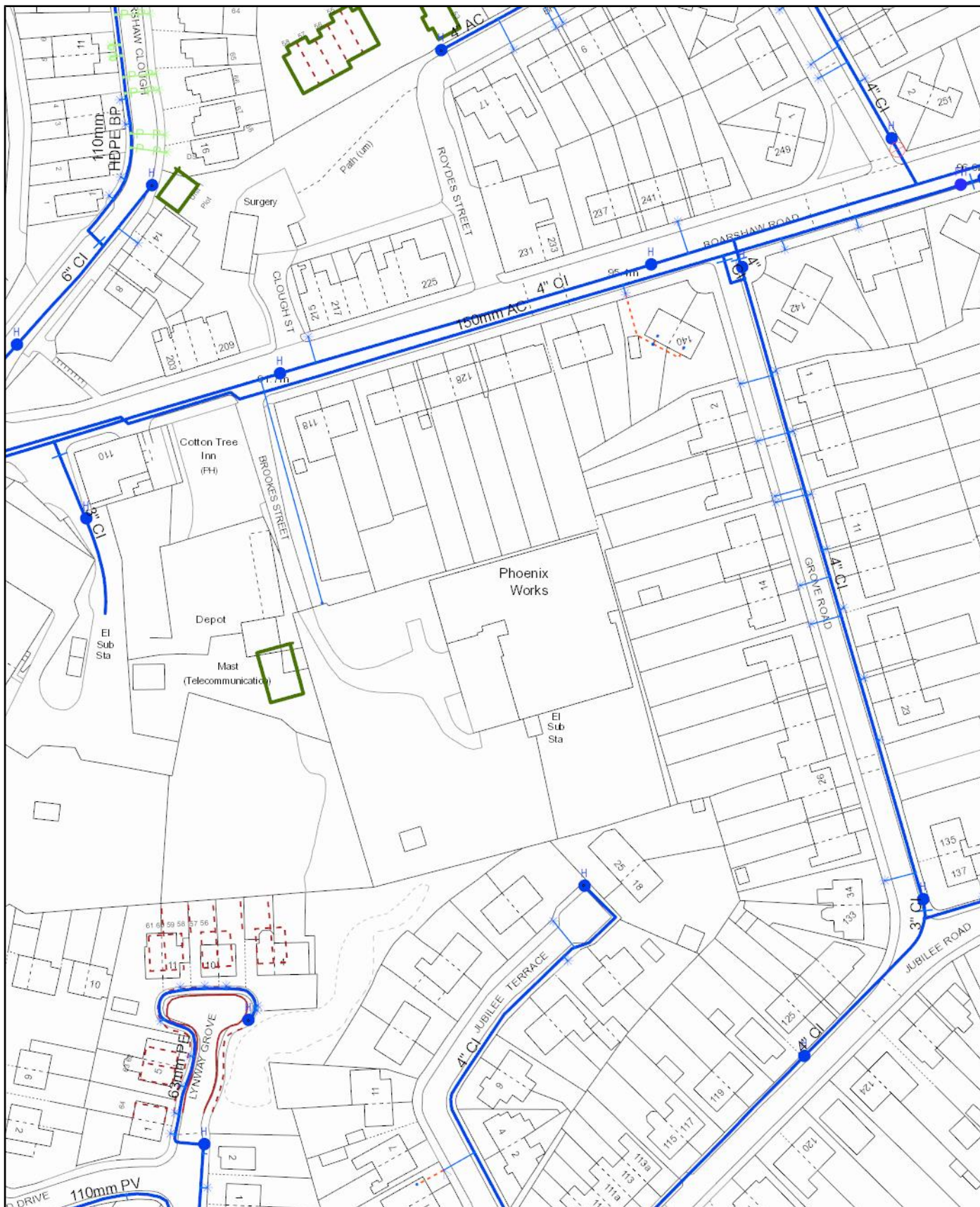
The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Clean Water Symbolology

Proposed	Abandoned	Live	
			Distribution Main
			Trunk Main
			Comms Pipe
			Private Pipe
			Concessionary Service
			Raw Water
			LDTM Raw Water
			LDTM Treated Water
			Air Valve
			AC Valve, open
			AC Valve, closed
			CC Valve, open
			CC Valve, closed
			Non Return Valve
			Pressure Management Valve
			OMS Valve
			Stop Tap
			Flow Meter
			Domestic Meter
			Commercial Meter
			Pump
			Hydrant
			Fire Hydrant
			Anode
			Chlorination Point
			De-chlorination Point
			Strainer Point
			Access Point
			Hatch Box
			IP Point
			Sampling Station
			Logger Box
			Bore Hole
			Inlet Point
			Bulk Supply Point
			End Cap
			Site Termination
			Change of Characteristic
			Condition Report
			<u>Property Types</u>
			Water Tower
			Valve House
			Booster Pumping Station
			Intake Pumping Station
			Water Treatment Works
			Supply Reservoir
			Service Reservoir
			Impounding Reservoir
			Pipe Bridge

Symbology for proposed assets is the same as above, but shown in **green**
 Symbology for abandoned assets is the same as above, but shown in **black**



Scale: 1:1250
Date: 17/08/2021

WATER MAINS RECORDS

Address or Site Reference: 28617
Printed by: Property Searches

 **United
Utilities**
Water for the North West

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Joe Shawyer

From: nrswa.uk@engie.com
Sent:
To:
Subject: Automatic reply:

ENGIE

Thank you for your enquiry. This mail box is monitored constantly

ENGIE owns and operates district energy networks in the following areas and have buried pipework either inside or very close to the area codes listed below:

- Birmingham - B1-B9, B15-B19
- Coventry - CV1, CV2 & CV3
- Eastleigh - SO50
- Hatfield - AL10
- Leicester - LE1-LE5
- Leeds - LS2
- London
 - Bloomsbury - W1, WC1, WC2, NW1 & N1C
 - Olympic Site - E3, E7, E9-E11, E13, E15 & E20
 - Whitehall -SW1A, SW1E, SW1H, SW1P, SW1V & SW1Y
 - ExCel Exhibition Centre - E16
 - Embassy Quarter - SW8, SW11
- Southampton - SO14, SO15 & SO17

Due to the volume of enquiries, ENGIE is only able to respond to enquiries which fall within the above Areas of Interest.

If your enquiry falls within these areas, ENGIE will respond with a further email containing details of buried assets which may or may not affect your work.

However, if no response is forthcoming please take this automated reply as evidence that ENGIE have no assets within the areas. In accordance with the NRSWA 1991 legislation, please allow 10 days a response.

ENGIE Document Control

Urban Energy
UK & Ireland
NRSWA.UK@engie.com

Cofely GDF SUEZ is now ENGIE
engie.co.uk

Kings Yard,
1 Waterden Road,
Queen Elizabeth Olympic Park
London E15 2GP - UK

Please consider the environment before printing this message

ENGIE Mail Disclaimer: <http://www.engie.com/disclaimer/>



Groundwise Searches Ltd Terms & Conditions

1. Definitions

"Client" means any company or other person or body placing an Order with Groundwise;

"Equipment" means pipes wires cables and other plant or equipment;

"Fee" means in relation to a Site of an area not exceeding the Standard Maximum Area the fee for carrying out a Search identified either on Groundwise website (where an Order is placed through the website) or on the Order Form where an Order is placed using an Order Form plus Value Added Tax and in relation to a Site of an area exceeding the Standard Maximum Area shall be such sum as shall be agreed between Groundwise and a Client plus Value Added Tax;

"Groundwise" means Groundwise Searches Limited;

"Order" means an order by a Client from Groundwise for the provision of a Search whether placed electronically through Groundwise's website or in paper form using an Order Form;

"Order Form" means Groundwise's current standard Utility Searches Order Form for placing an order for a Search in hard copy;

"Report" means a written report provided by Groundwise to a Client in response to an Order reflecting the results of Groundwise's enquiries of Utility Companies made on or before the date of the Report;

"Search" means making enquiries of the Utility Companies likely to have utilised or operated Equipment on a Site, as to the location of any Equipment on that Site following acceptance by Groundwise of an Order, and providing the Client with a Report;

"Site" means a site identified on a plan submitted with an Order which in relation to any Order placed electronically shall not exceed the Standard Maximum Area;

"Standard Maximum Area" means an area no greater than 15 hectares or of a length no greater than one kilometre and a width no greater than two hundred metres;

"Terms of an Order" means in the case of an Order placed electronically the information requested from a Client relating to a Site, the provisions relating to the method of payment, the information contained in or accessed through the tabs appearing on an Order Summary and all other applicable information contained in Groundwise's website and in the case of an Order placed in hard copy means the provisions of a completed Order Form.

2. Agreement

2.1 The Terms of an Order together with these Terms and Conditions constitute the terms of a contract ("Contract") between Groundwise and a Client for the carrying out of a Search.

2.2 A Contract shall come into effect when Groundwise notifies a Client that it has accepted an Order. Where such notification is by email it shall be deemed to have occurred as soon as Groundwise has sent the email to the Client, where such notification is by letter, upon the posting of the letter to the Client, or where there is a verbal acceptance when Groundwise verbally confirms acceptance of an Order to the Client.

3. Payment and Refunds

3.1 Other than in the case of Clients who have set up an account with Groundwise, when placing an Order a Client shall provide Groundwise with credit card details sufficient to enable Groundwise to debit that credit card with the Fee and by such notification and subject to accepting the relevant Order Groundwise is authorised to debit that credit card with the Fee.

3.2 In the case of Clients who have an account with Groundwise the Fee shall be paid within 30 days of the delivery of the Report.

3.3 Groundwise shall be entitled to terminate any account set up with it by a Client any time without notice and to require payment in accordance with paragraph 3.1.

3.4 Where a Client cancels an Order :

3.4.1 within three hours of that Order being accepted by Groundwise, Groundwise shall promptly refund the Fee paid plus Value Added Tax in full, or where no fee has been paid no fee shall be payable;

3.4.2 within three days but after the elapse of three hours of an Order being accepted by Groundwise, Groundwise shall promptly refund 50% of the Fee paid plus Value Added Tax or where no fee has been paid 50% of the fee plus Value Added Tax shall be payable and in either such case following such reimbursement or where no payment has been made upon making any payment due the relevant Contract shall terminate without further liability on the part of Groundwise or of the Client.

4. Limitation of Liability

4.1 Groundwise shall use its reasonable endeavours to provide a Search within the period referred to in the Order and shall not be liable for any delay arising because of any act omission or delay of any Utility Company.

4.2 Without limiting the liability of Groundwise in the case of death or personal injury Groundwise shall have no liability to a Client:

4.2.1 for the information contained in a Report to the extent that any errors or omissions reflect the errors or omissions of a Utility Company in providing or omitting to provide information to Groundwise and to the extent that that Utility Company has no liability to Groundwise in relation to the provision of such information, or the omission to provide relevant information;

4.2.2 in relation to any Report for loss or damage arising in relation to loss of profits, loss of business, loss of use, or any special indirect consequential or pure economic loss, costs, damages, charges or expenses and subject as earlier provided Groundwise's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation restitution or otherwise in relation to the performance or contemplated performance of the Services shall be limited £5,000,000.00.

4.2.3 In the absence of express written agreement to the contrary, Groundwise shall have no liability to any third party for any errors or omissions contained in or omitted from a Report.

5. Copyright

5.1 The copyright in the Report is the property of Groundwise and the Report may not be copied or reproduced in whole or in part nor communicated or divulged to any third party without the prior written consent of Groundwise save as set out below.

5.2 The Report may, without further charge, be made available to the owner of the Site at the date of the Report, their agents, consultants and professional advisors, any person who purchases the whole of the Site, any person who provides funding secured on the whole of the Site, and prospective buyers of the Site, and any of their respective agents, consultants and professional advisors. The Report may also be published on a local authority planning portal in relation to a proposed development of the site.

5.3 The provisions concerning liability in Clause 4 shall apply to any of the third parties mentioned above in the same manner as they do to the Client.

6. Data Protection

In processing any personal data received from a Client or potential Client, Groundwise will comply with its privacy policy a copy of which can be viewed at [address] on its website.

7. Force Majeure

Groundwise will have no liability to the Client if it is prevented from or delayed in performing its obligations under a Contract by acts events omissions or accidents beyond its reasonable control, including strikes, lock-outs and other industrial disputes, failure of a utility service or transport network, act of God, war, riot, civil commotion, malicious damage, compliance with any law or governmental order rule regulation or direction, accident, breakdown of plant or machinery, fire, flood, storm or default of suppliers or sub-contractors.

8. Severance

8.1 If any provision or part of any provision in these terms and conditions or of any Contract is found by any court or administrative body of competent jurisdiction to be invalid, unenforceable or illegal, the other provisions will remain force.

8.2 If any invalid, unenforceable or illegal provision would be valid, enforceable or legal if some of it were deleted that provision will apply with whatever modification is necessary to make it valid, enforceable and legal.

8.3 The parties agree, in the circumstances referred to in paragraph 8.1 above to attempt to substitute for any invalid, unenforceable or illegal provision a valid, enforceable and legal provision which achieves to the greatest extent possible the same effect as would have been achieved by the invalid, unenforceable or illegal provision.

9. Status of Pre-Contractual Statements

Each of the parties acknowledges and agrees that in entering into a Contract it does not rely on any undertaking, promise, assurance, statement, representation, warranty or understanding (whether in writing or not) of any person (whether party to these terms and conditions or not) relating to the subject matter of a Contract, provided that without prejudice to the generality of the foregoing, any revision to the Terms and Conditions agreed in writing by Groundwise and a Client or a potential Client (including any express written agreement relating to the assignment of copyright or licensing of all or part of the contents of a Report) shall apply to the Contract to which it has been agreed that it will apply.

10. Assignment

A Client shall not, without the prior written consent of Groundwise, assign transfer charge sub-contract or deal in any other matter with any of its rights under a Contract.

11. Third Party Rights

For the purposes of the Contracts (Rights of Third Parties) Act 1999 it is not intended that the rights of either of the parties shall be contractually enforceable by any third party.

12. Governing Law and Jurisdiction

These terms and conditions and any Contract are governing by and construed in accordance with the laws of England and Wales and the parties irrevocably agree that the courts of England and Wales shall have non-exclusive jurisdiction to settle any dispute or claim that arises out of or in connection with these terms and conditions or any Contract.