

Our Ref: 29231323      Your Ref: 8856 Northfleet

Thursday, 20 April 2023

Danny Simms  
9-11 Lowater Street Carlton  
Nottingham  
Nottinghamshire  
NG4 1JJ

Dear Danny Simms

Thank you for contacting us regarding UK Power Networks equipment at the above site. I have enclosed a copy of our records which show the electrical lines and/or electrical plant. I hope you find the information useful.

I have also enclosed a fact sheet which contains important information regarding the use of our plans and working around our equipment. Safety around our equipment is our number one priority so please ensure you have completed all workplace risk assessments before you begin any works.

Should your excavation affect our Extra High Voltage equipment (6.6 KV, 22 KV, 33 KV or 132 KV), please contact us to obtain a copy of the primary route drawings and associated cross sections.

If you have any further queries do not hesitate to contact us.

Plan Provision  
0800 056 5866



This information is made available to you on the terms set out below. If you do not accept the terms of use set out in this fact sheet please do not use the plans and return them to UK Power Networks.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise how for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. The information about UK Power Networks electrical plant and/or electric lines provided to you belongs to and remains the property of UK Power Networks. You must not alter it in any respect.
5. The information provided to you about the electrical plant and/or electric lines depicted on the plans may NOT be a complete record of such apparatus belonging to UK Power Networks. The information provided relates to electric lines and/or electrical plant belonging to UK Power Networks that it believes to be present but the plans are not definitive: other electric lines and/or electrical plant may be present and that may or may not belong to UK Power Networks.
6. Other apparatus not belonging to UK Power Networks is not shown on the plan. It is your responsibility to make your own enquiries elsewhere to discover whether apparatus belonging to others is present. It would be prudent to assume that other apparatus is present.
7. You are responsible for ensuring that the information made available to you is passed to those acting on your behalf and that all such persons are made aware of the contents of this letter.
8. Because the information provided to you may not be accurate, you are recommended to ascertain the presence of UK Power Networks electric lines and/or electrical plant by the digging of trial holes. Trial holes should be dug by hand only.

Excavations must be carried out in line with the Health and Safety Executive guidance document HSG 47. We will not undertake this work. A copy of HSG 47 can be obtained from the Health and Safety Executives website.

All electric lines discovered must be considered LIVE and DANGEROUS at all times and must not be cut, resited, suspended, bent or interfered with unless specially authorised by UK Power Networks.

The electric line and electrical plant belonging to UK Power Networks remains so even when made dead and abandoned and any such electric line and/or electrical plant exposed shall be reported to UK Power Networks.

Where your works are likely to affect our electric lines and/or electrical plant an estimate of the price of any protective /diversionary works can be prepared by UK Power Networks Branch at Metropolitan House, Darkes Lane, Potters Bar, Herts. , EN6 1AG, telephone no. 0845 2340040



- 9 Any work near to any overhead electricity lines must be carried out by you in accordance with the Health and Safety Executive guidance document GS6 and the Electricity at Work Regulations.

The GS6 Recommendations may be purchased from HSE Books or downloaded from the Energy Networks Association's website.

If given a reasonable period of prior notice UK Power Networks will attend on site without charge to advise how and where "goal posts" should be erected. If you wish to use this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday.

10. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
11. If in carrying out work on land in, on, under or over which is installed an electric line and/or electrical plant that belongs to UK Power Networks you and/or anyone working on your behalf damages (however slightly) that apparatus you must inform immediately UK Power Networks by our emergency 24 hour three digit telephone number **105** providing;
- your name, address and telephone number;
  - the date, time and place at which such damage was caused;
  - a description of the electric line and/or electrical plant to which damage was caused;
  - the name of the person whom it appears to you is responsible for that damage;
  - the nature of the damage.
12. The expression "UK Power Networks" includes UK Power Networks (EPN) plc, UK Power Networks (LPN) plc, UK Power Networks (SEPN) plc, UK Power Networks and any of their successors and predecessors in title.

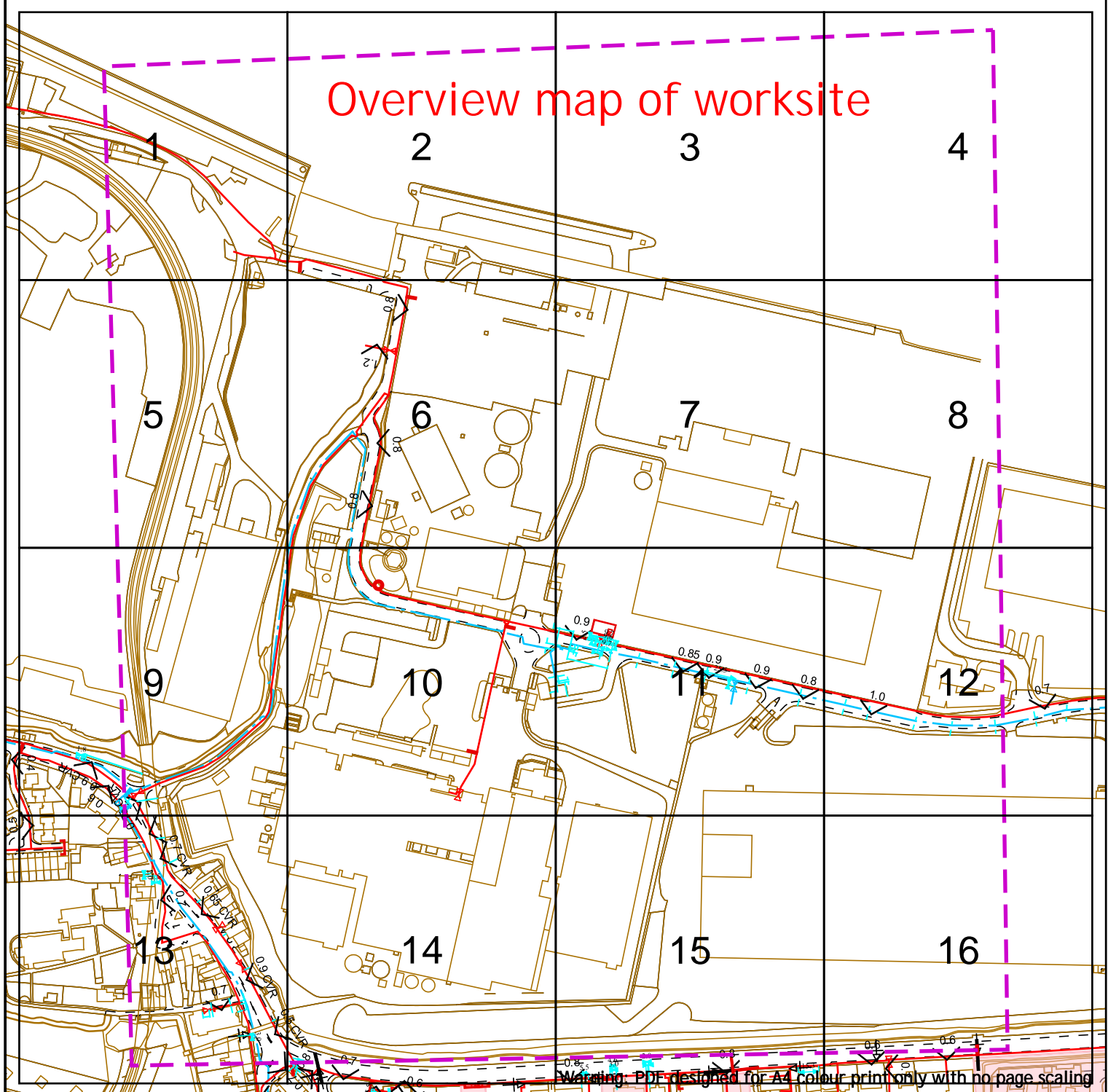


# Gas

(Scotia Gas Network)



# Overview map of worksite



**Contact Us**  
**SGN Safety Admin Team:**  
 0800 912 1722  
**Email:**  
 plantlocation@sgn.co.uk

Low Pressure Mains		Digsite:		Area:
Medium Pressure Mains		Line:		
Intermediate Pressure Mains		LAs		
High Pressure Mains		GTs		SSSIs
Some Examples Of Plant Items		Valve		
		Syphon		
		Depth of Cover		
		Diameter Change		Material Change

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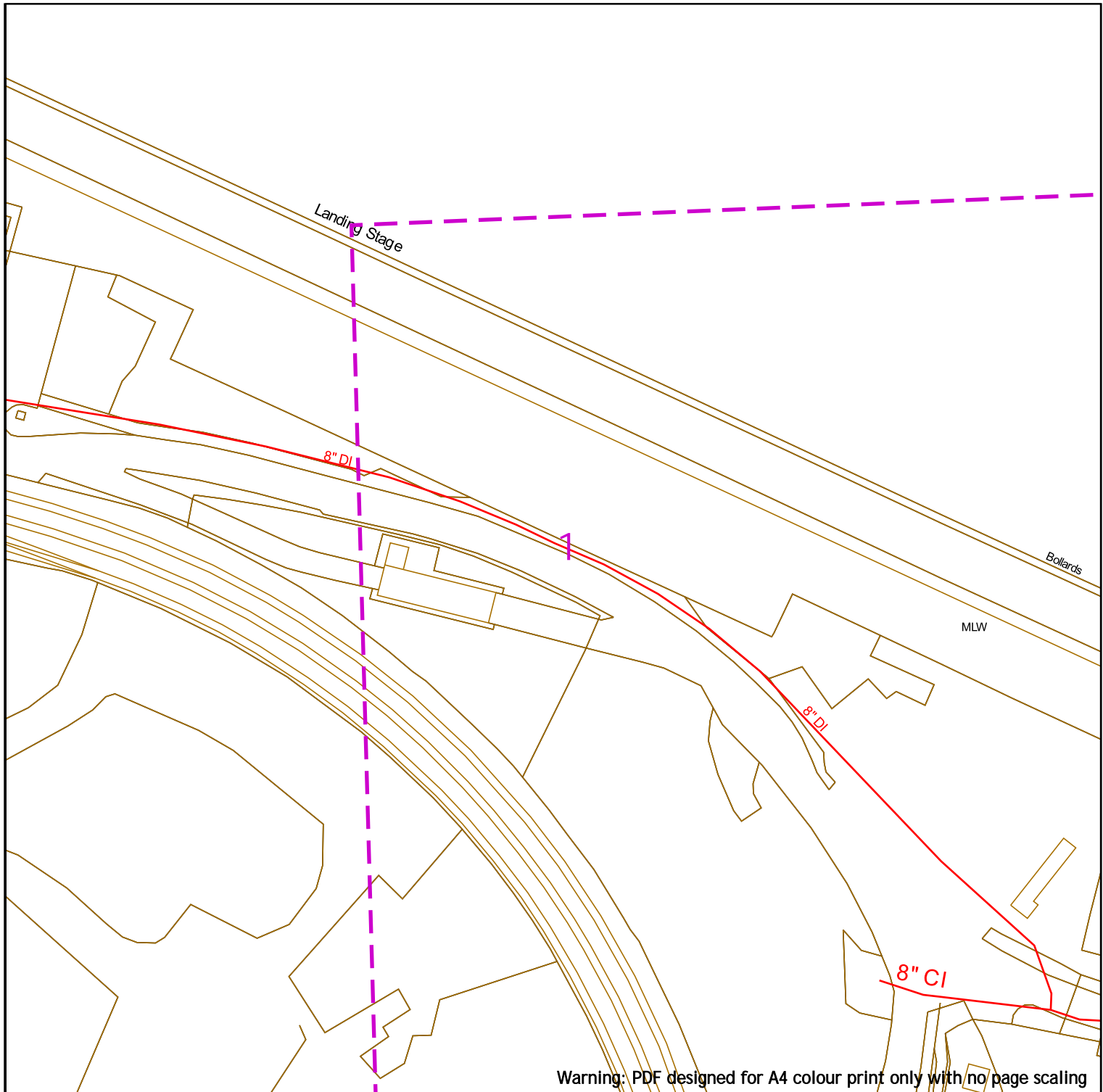


This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA**  
**0800 111 999**

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Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856 Northfleet  
 Scale: 1:4100 (When plotted at A4)



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Low Pressure Mains		Digsite:		Area:
Medium Pressure Mains		Line:		
Intermediate Pressure Mains		LAs		
High Pressure Mains		GTs		SSSIs
Some Examples Of Plant Items		Valve		Syphon
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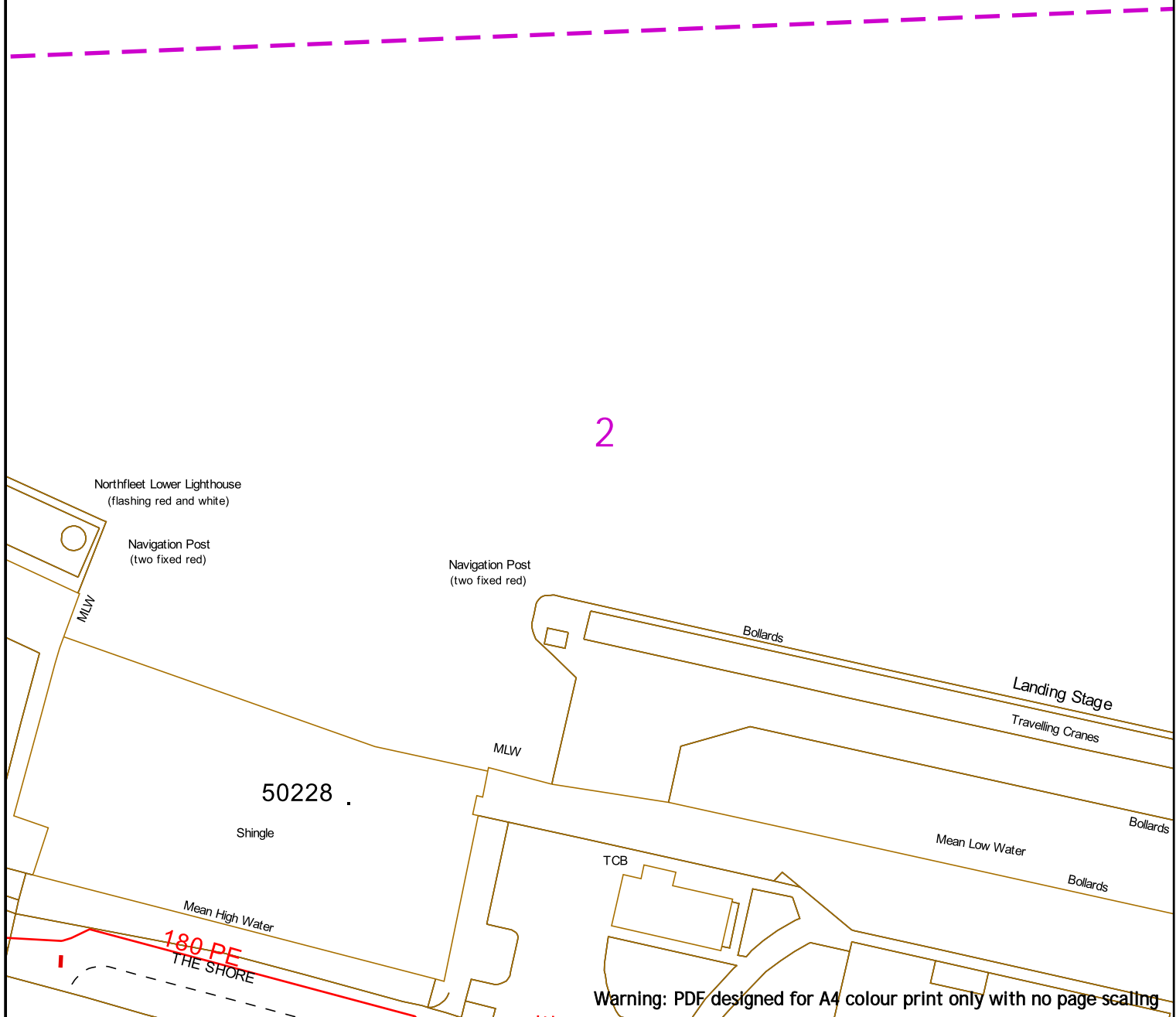
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2



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Some Examples Of Plant Items	Valve	Syphon	Depth of Cover	Diameter Change	Material Change

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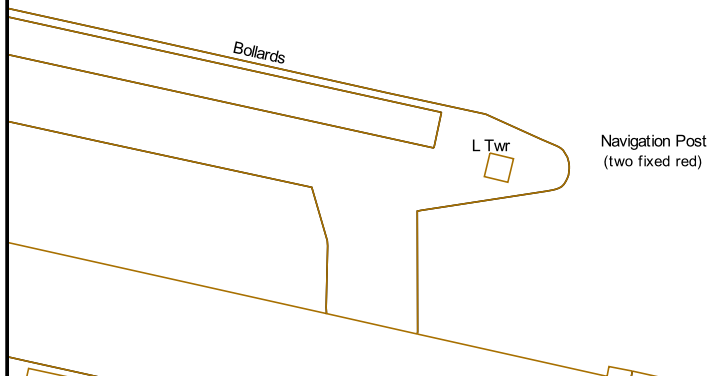


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











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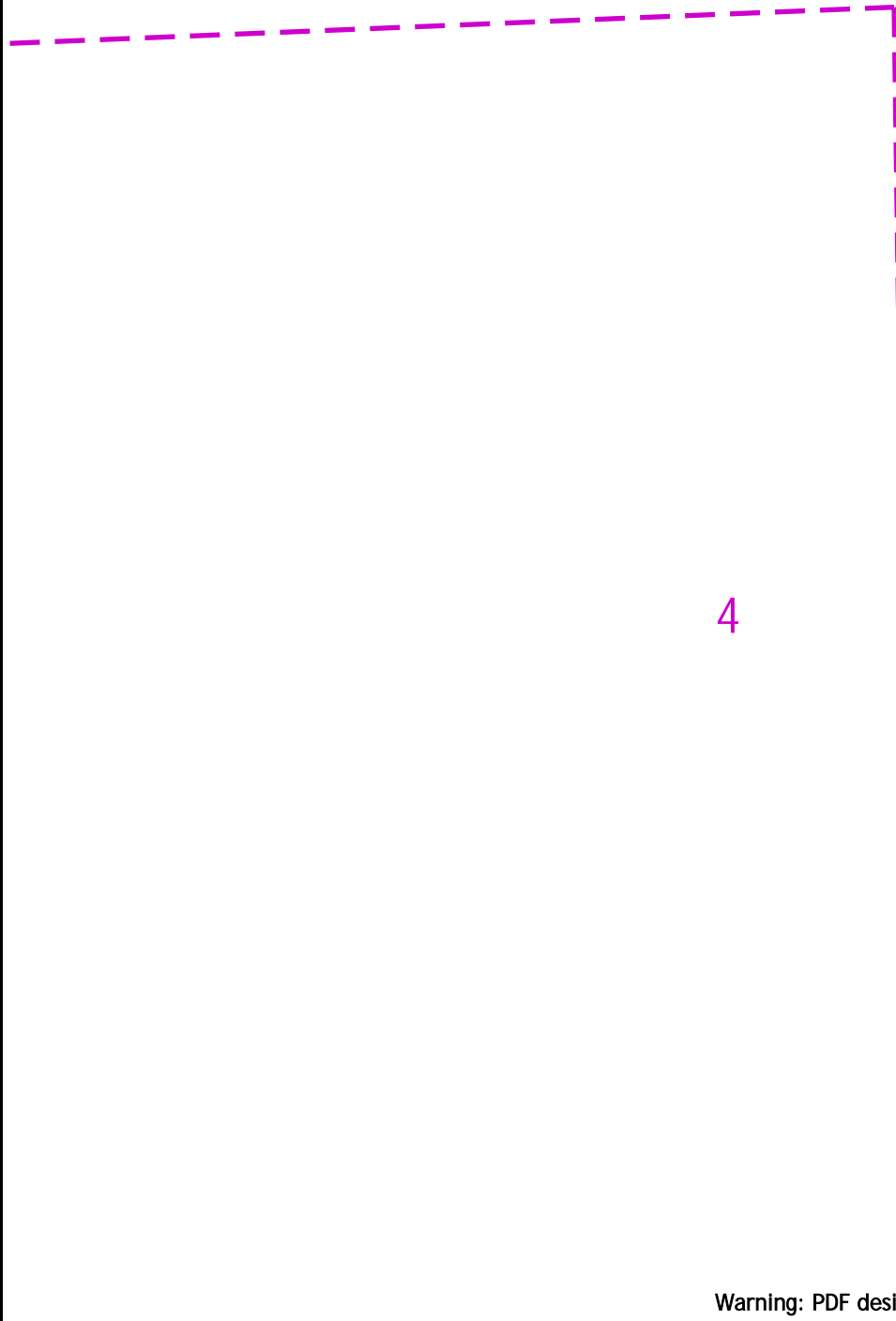


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	<p>Low Pressure Mains </p> <p>Medium Pressure Mains </p> <p>Intermediate Pressure Mains </p> <p>High Pressure Mains </p> <p>Some Examples Of Plant Items</p> <p>Valve  Syphon  Depth of Cover </p>	<p>Digsite: </p> <p>Line:  Area: </p> <p>LAs </p> <p>GTs  SSSIs </p> <p>Diameter Change  Material Change </p>	 <p>This information is given as a guide only and its accuracy cannot be guaranteed.</p> 
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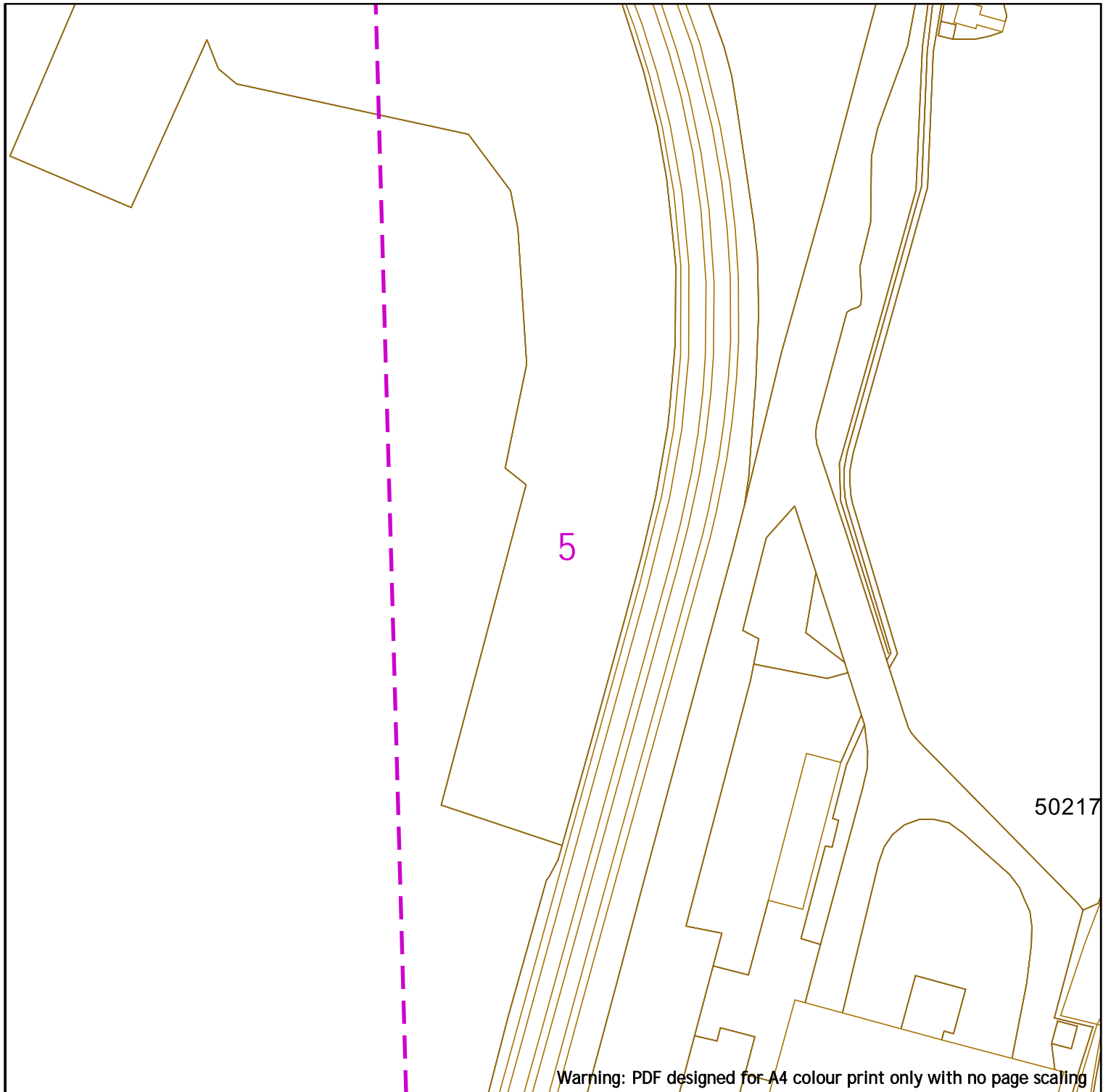




4

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Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

Some Examples Of Plant Items

Valve



Syphon



Depth of Cover



Diameter Change

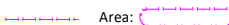


Material Change



Digsite:

Line:



Area:



LAs

GTs



SSSIs



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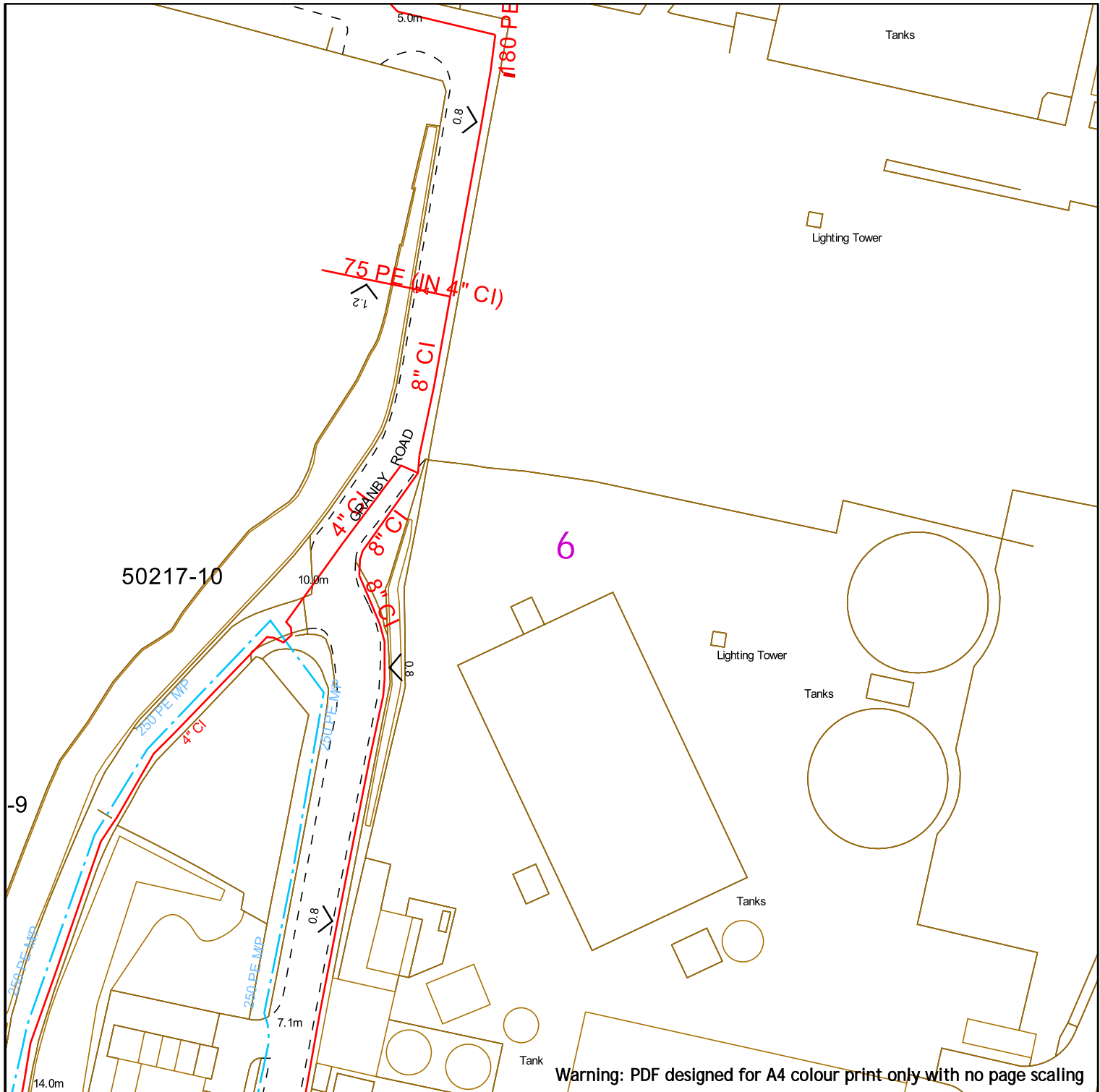
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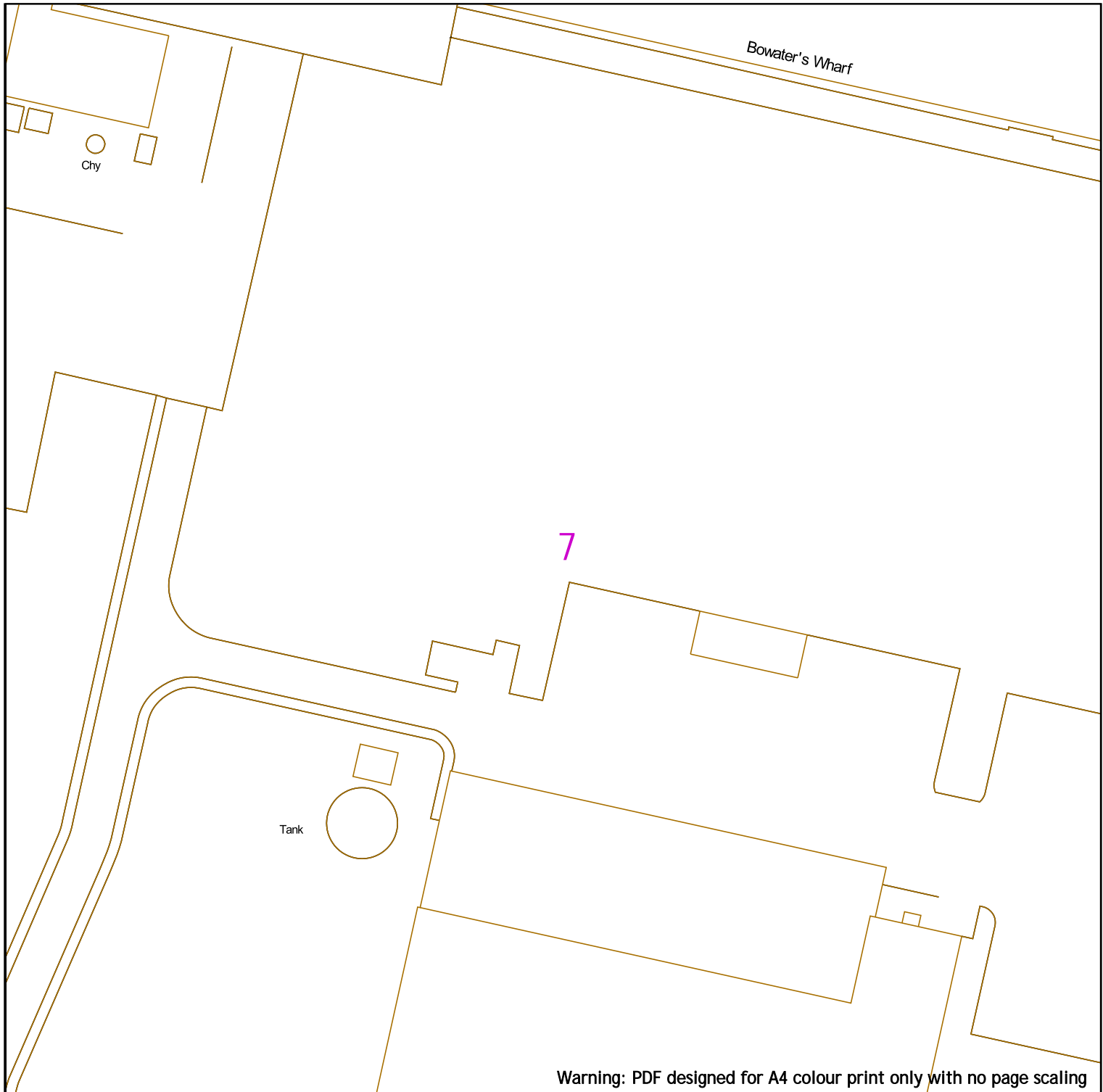


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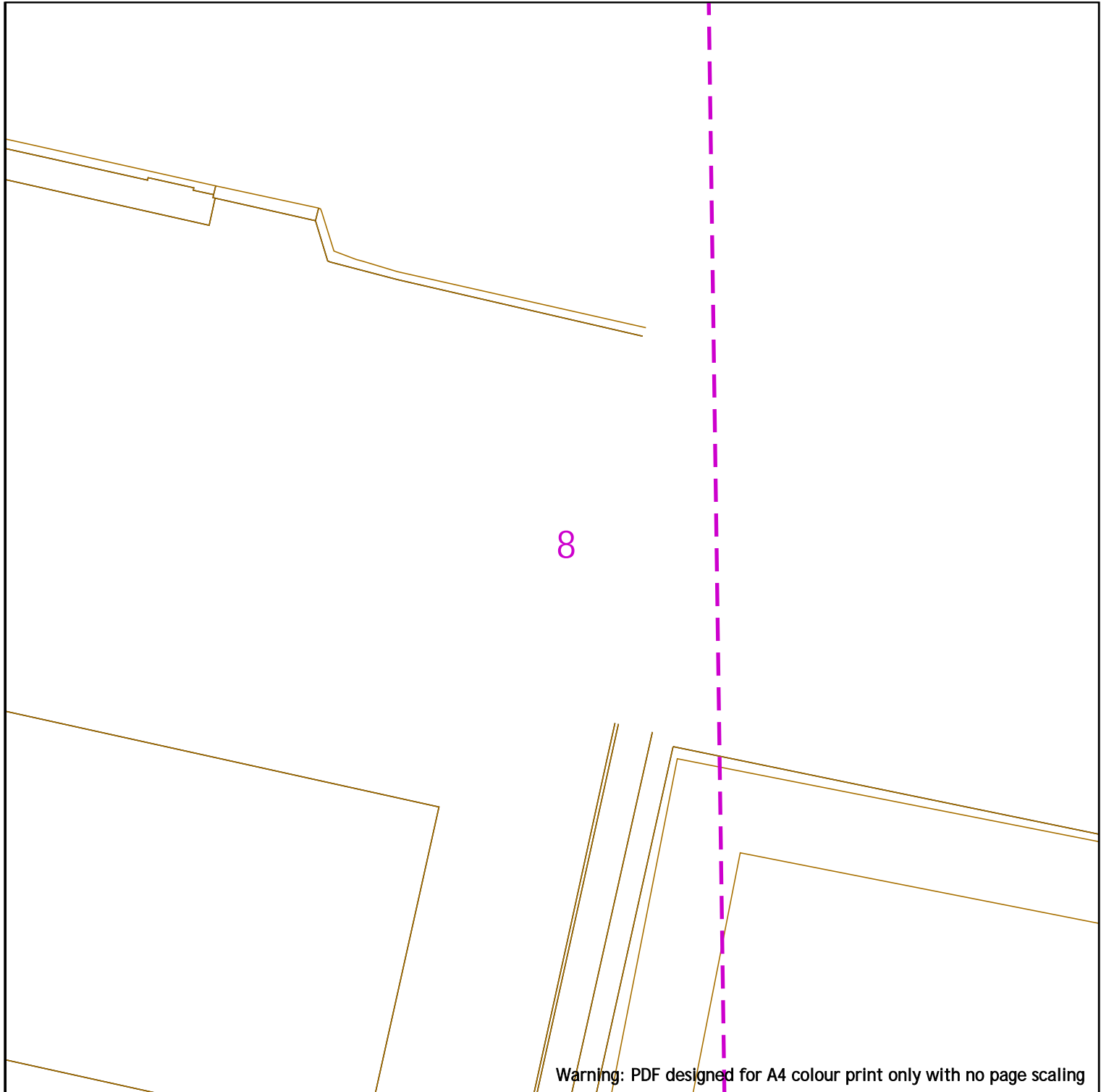
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	<p>Low Pressure Mains <span style="color: red;">—</span> Digsite: <span style="border: 1px dashed magenta; padding: 2px;"> </span></p> <p>Medium Pressure Mains <span style="color: cyan;">- - -</span> Line: <span style="border-bottom: 1px dashed magenta;"> </span> Area: <span style="border: 1px dashed magenta; padding: 2px;"> </span></p> <p>Intermediate Pressure Mains <span style="color: green;">- · - · -</span> LAs <span style="border-bottom: 1px solid black;"> </span></p> <p>High Pressure Mains <span style="color: orange;">- · - · -</span> GTs <span style="background-color: #f8d7da; border: 1px solid #f5c6cb; padding: 2px;"> </span> SSSIs <span style="background-color: #d4edda; border: 1px solid #c3e6cb; padding: 2px;"> </span></p> <p>Some Examples Of Plant Items</p> <p>Valve <span style="font-size: 1em;">⋈</span> Syphon <span style="font-size: 1em;">○</span> Depth of Cover <span style="font-size: 1em;">∨</span> Diameter Change <span style="font-size: 1em;">±</span> Material Change <span style="font-size: 1em;"> </span></p>	 <p>This information is given as a guide only and its accuracy cannot be guaranteed.</p>
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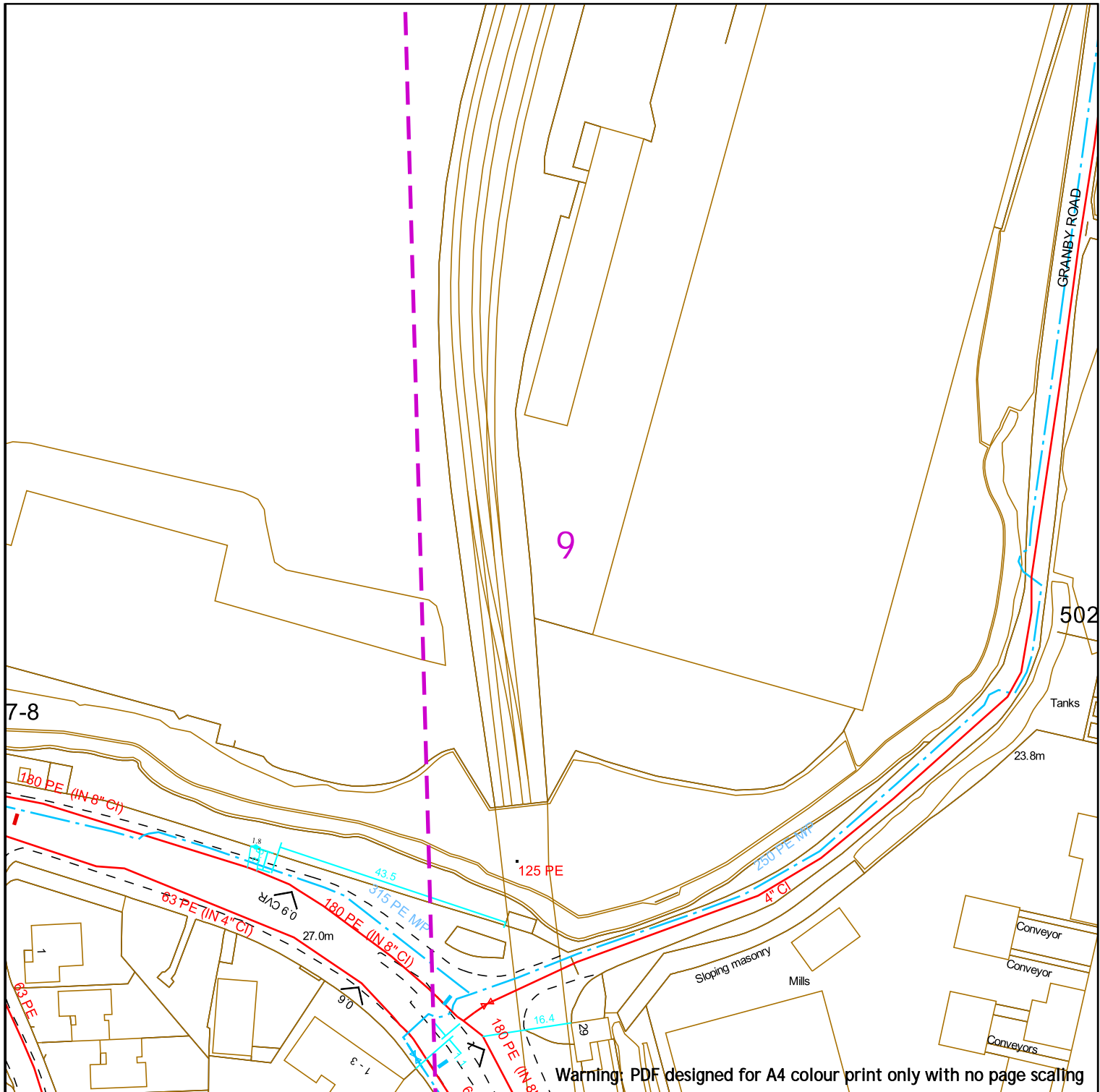


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**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA**  
**0800 111 999**



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 0800 912 1722  
**Email:**  
 plantlocation@sgn.co.uk


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Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856  
 Northfleet

Low Pressure Mains		Digsite:	
Medium Pressure Mains		Line:	
Intermediate Pressure Mains		Area:	
High Pressure Mains		LAs	
Some Examples Of Plant Items		GTs	
Valve		SSSIs	
Syphon		Diameter Change	
Depth of Cover		Material Change	



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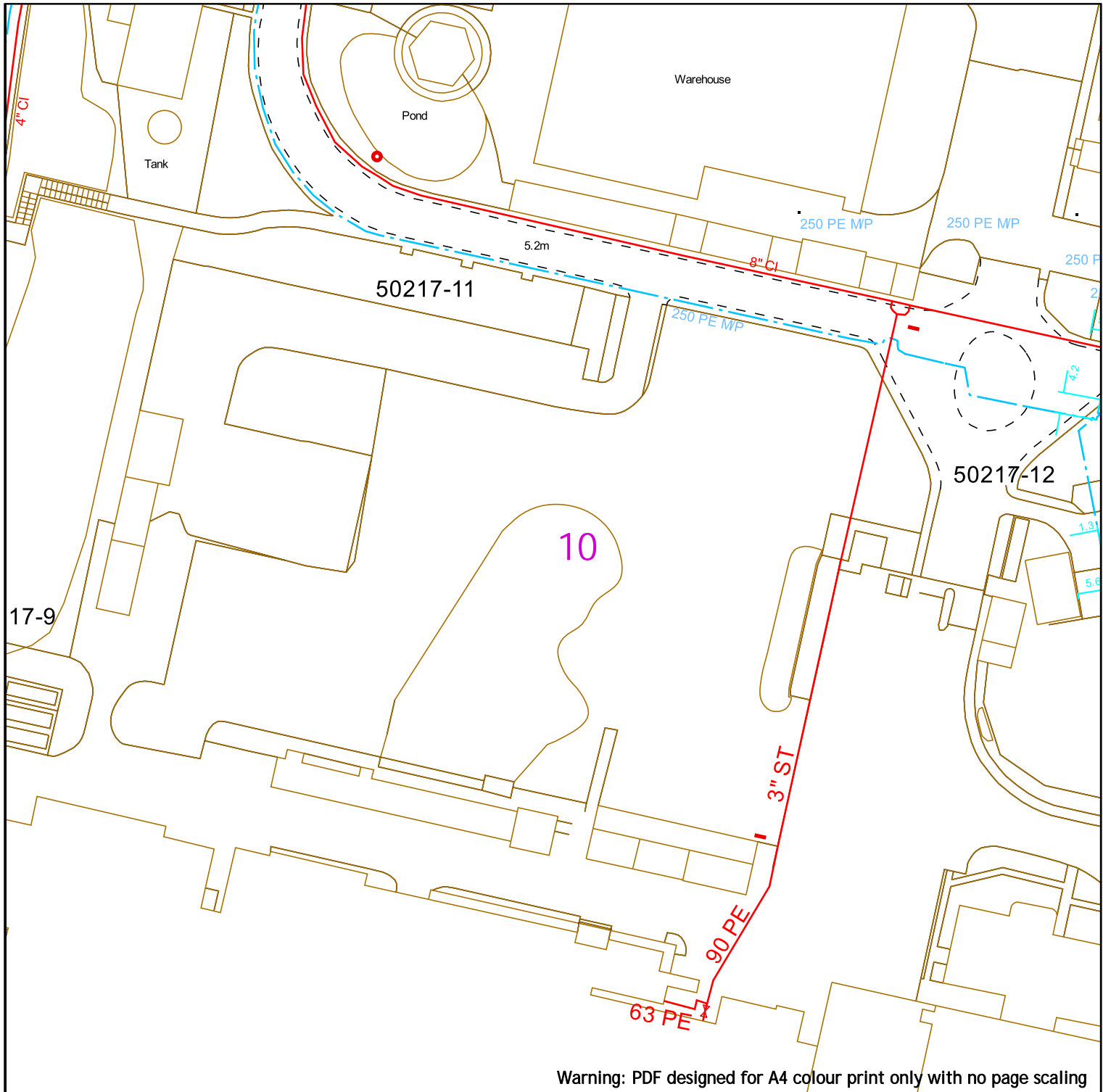


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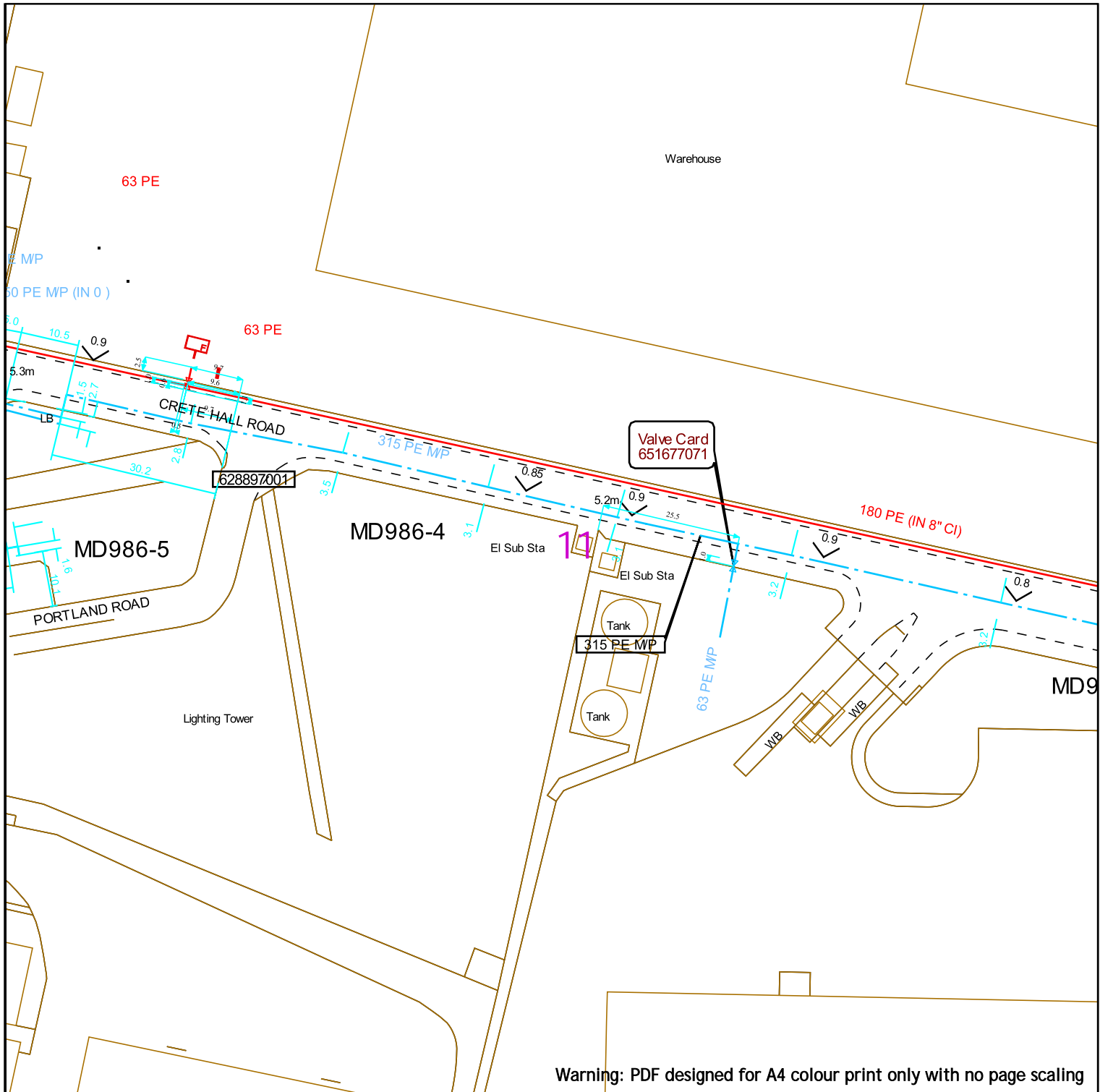
Scale: 1:1000 (When plotted at A4)



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	<p>Low Pressure Mains ————</p> <p>Medium Pressure Mains - - - - -</p> <p>Intermediate Pressure Mains - · - · -</p> <p>High Pressure Mains - · - · - · -</p> <p>Some Examples Of Plant Items</p> <p>Valve ◀ Syphon ○ Depth of Cover ∨</p> <p>Diameter Change ⊕ Material Change  </p> <p>Digsite: ————</p> <p>Line: - - - - - Area: [ ]</p> <p>LAs ————</p> <p>GTs [ ] SSSIs [ ]</p>	 <p>This information is given as a guide only and its accuracy cannot be guaranteed.</p>
<p><b>Contact Us</b>  <b>SGN Safety Admin Team:</b>          0800 912 1722  <b>Email:</b>          plantlocation@sgn.co.uk</p>		
<p>Date Requested: 20/04/2023          Job Reference: 29231323          Site Location: 562731 174436          Requested by: Mr Danny Simms          Your Scheme/Reference: 8856 Northfleet</p>	<p>This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.</p>	
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Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856  
 Northfleet

Scale: 1:1000 (When plotted at A4)

Low Pressure Mains		Digsite:	
Medium Pressure Mains		Line:	
Intermediate Pressure Mains		Area:	
High Pressure Mains		LAs	
Some Examples Of Plant Items		GTs	
Valve		SSSIs	
Syphon		Diameter Change	
Depth of Cover		Material Change	



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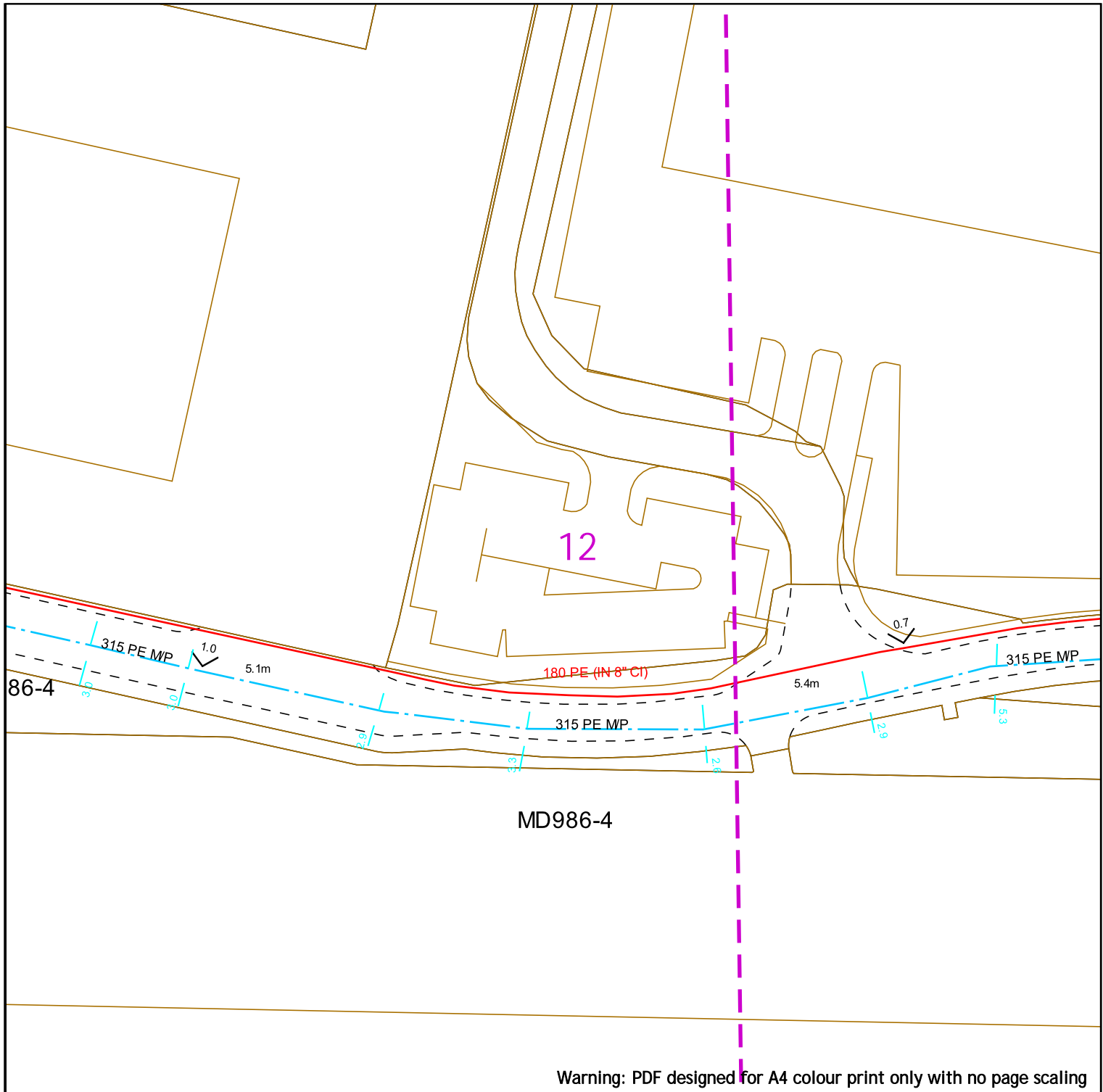


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Medium Pressure Mains		Line:		
Intermediate Pressure Mains		LAs		
High Pressure Mains		GTs		SSSIs
Some Examples Of Plant Items		Valve		Syphon
		Depth of Cover		Diameter Change
				Material Change



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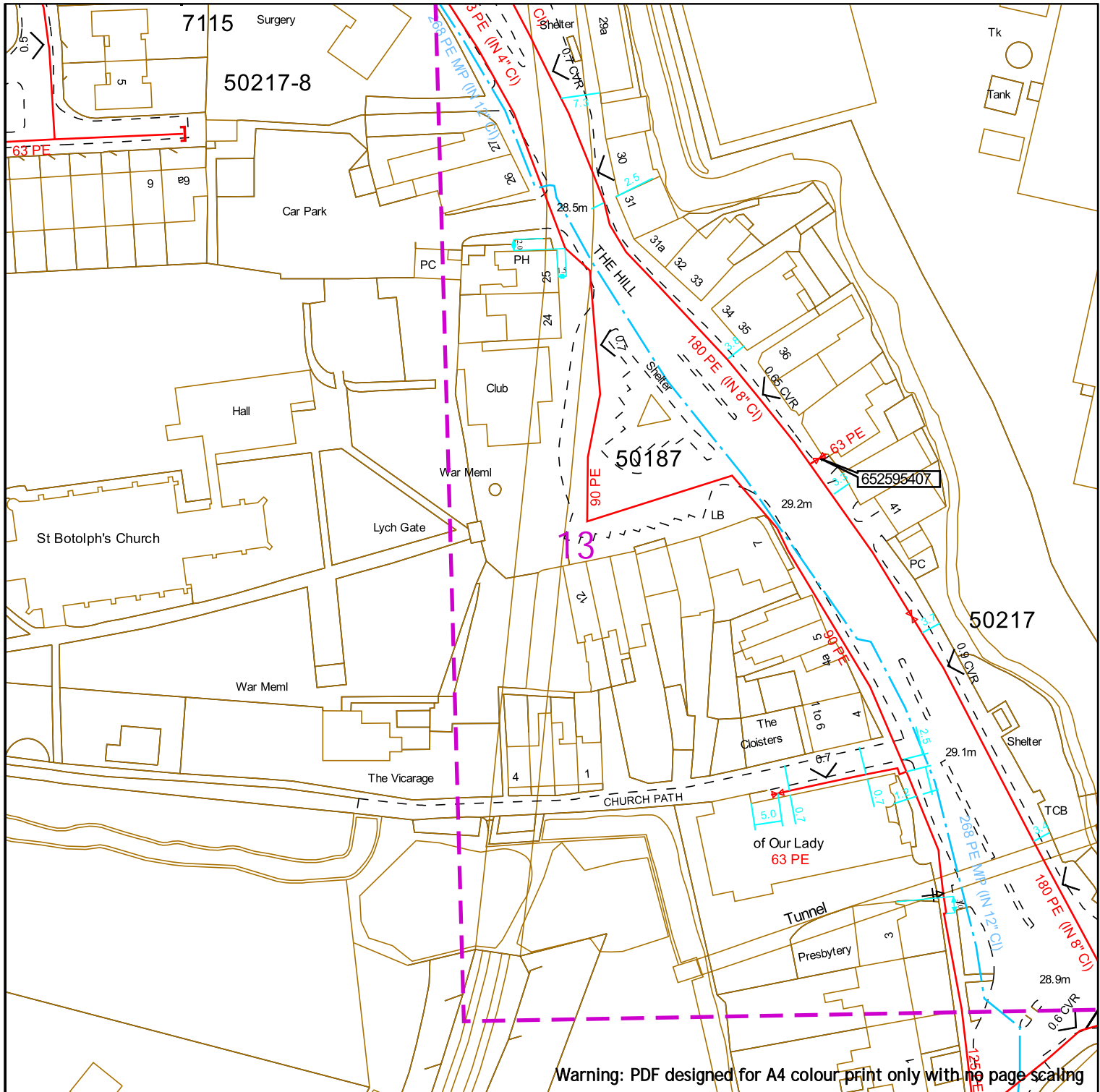


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Low Pressure Mains		Digsite:		Area:	
Medium Pressure Mains		Line:			
Intermediate Pressure Mains		LAs			
High Pressure Mains		GTs		SSSIs	
Some Examples Of Plant Items		Valve		Syphon	
		Depth of Cover		Diameter Change	
				Material Change	



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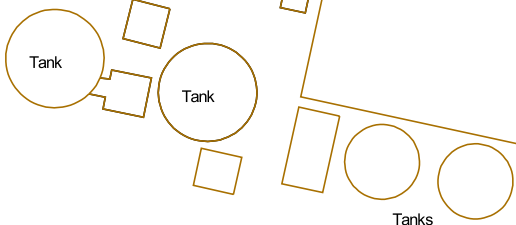
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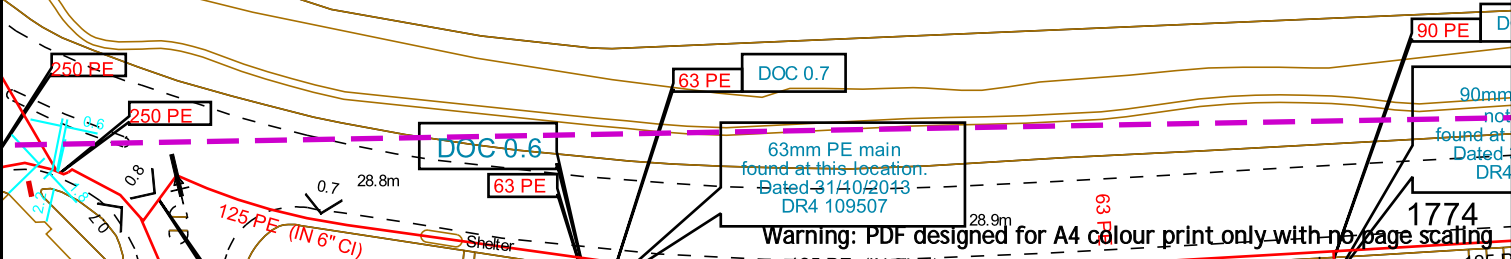
Mill

14



MD962

# NORTHFLEET



**Contact Us**  
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 0800 912 1722  
**Email:**  
 plantlocation@sgn.co.uk

Low Pressure Mains		Digsite:	
Medium Pressure Mains		Line:	
Intermediate Pressure Mains		Area:	
High Pressure Mains		LAs	
Some Examples Of Plant Items		GTs	
Valve		SSSIs	
Syphon		Diameter Change	
Depth of Cover		Material Change	

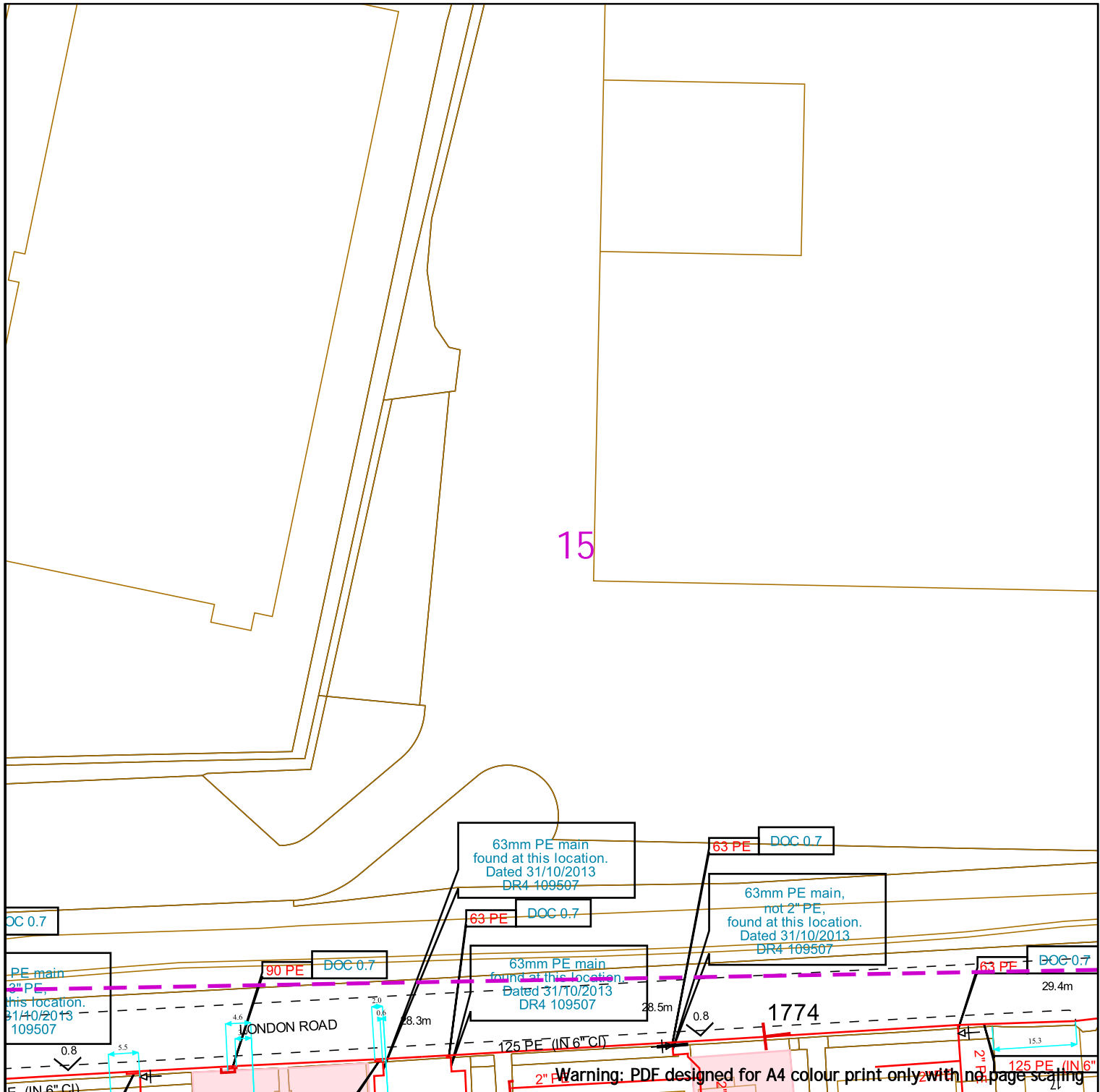
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**Email:**  
 plantlocation@sgn.co.uk

Low Pressure Mains		Digsites:	
Medium Pressure Mains		Line:	
Intermediate Pressure Mains		Area:	
High Pressure Mains		LAs	
Some Examples Of Plant Items		GTs	
Valve		SSSIs	
Syphon		Diameter Change	
Depth of Cover		Material Change	

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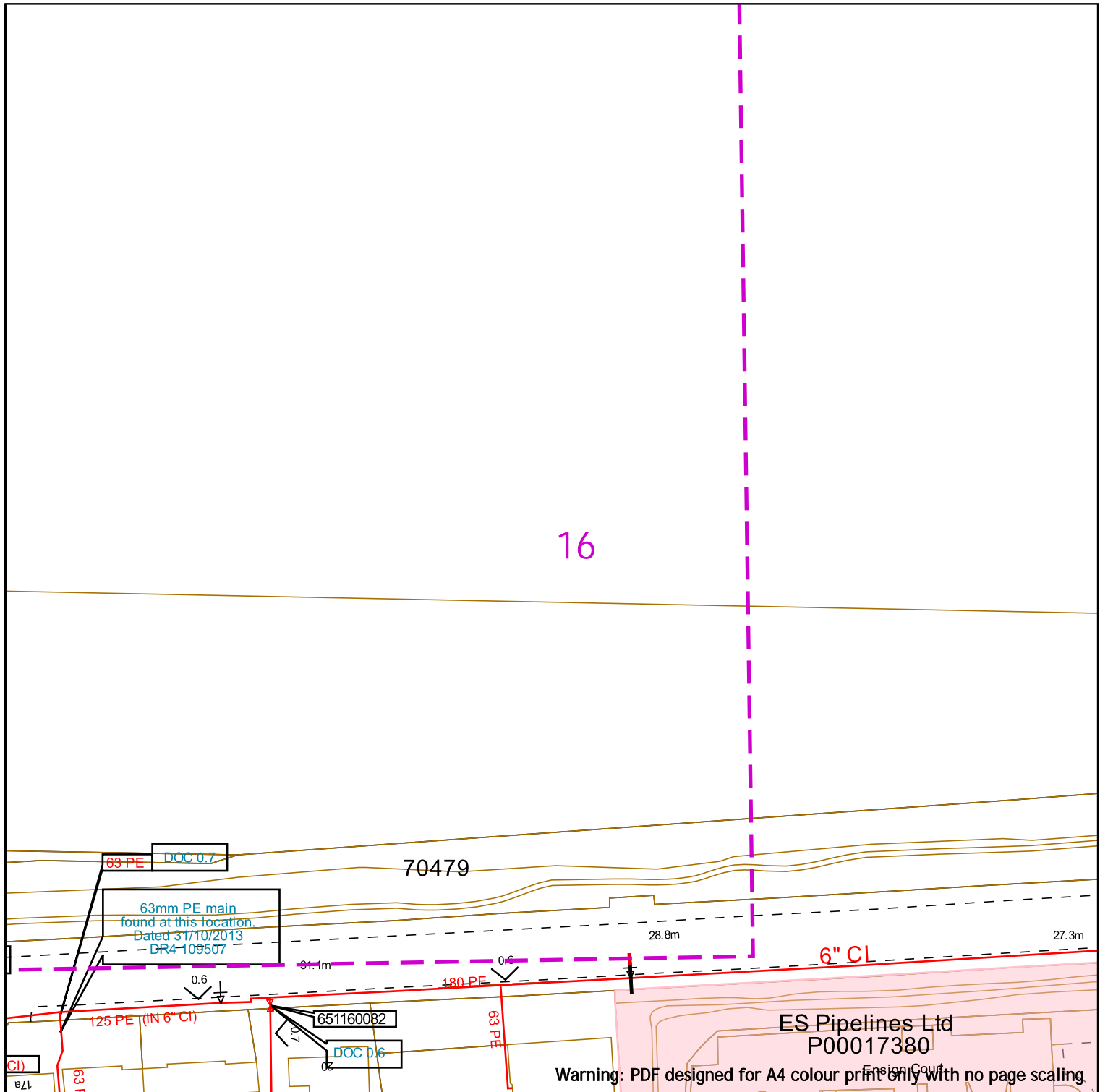
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Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856 Northfleet

Scale: 1:1000 (When plotted at A4)

16



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Low Pressure Mains		Digsite:	
Medium Pressure Mains		Line:	
Intermediate Pressure Mains		Area:	
High Pressure Mains		LAs	
Some Examples Of Plant Items		GTs	
Valve		SSSIs	
Syphon		Diameter Change	
Depth of Cover		Material Change	







































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Map Symbols

						
VALVE OPEN	VALVE CLOSED	GOVERNOR	END CLOSURE	SYPHON	REDUCER	TEE
						
TEST POINT	CATHODIC PROTECTION	GENERAL REFERENCE	FLOW MEASURE	DIP POINT	MONO ETHYLENE GLYCOL	OILING POINT
						
FLOW STOP	PRESSURE MEASUREMENT	STAND PIPE	OFFICIAL MINISTRY RECORD	PURGE POINT	GAS CONDITIONER	DRAIN POINT
						
SKETCH BUBBLE	DEPTH OF COVER	METER	MATERIAL CHANGE	LP MAINS	MP MAINS	IP MAINS
						
PIG TRAP	CROSSOVER CONNECTION	CHANGE OF DIAMETER	PIPE JOINT	LHP MAINS	HISTORY DATA	SSSI
						
				GTs	CONTACT ZONE	LTS

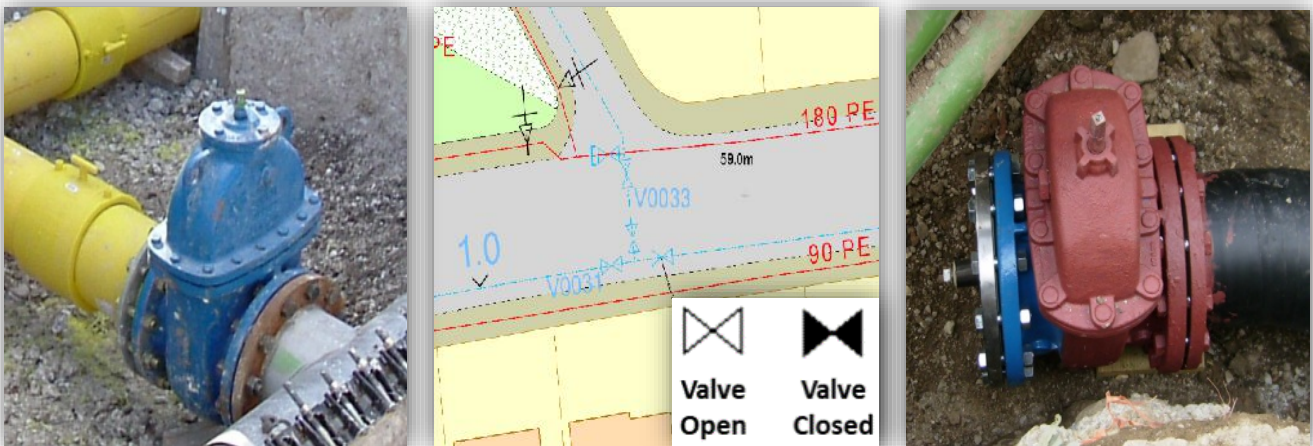
## Guidance when undertaking work near gas valves in our network areas

SGN manages the network that distributes gas to 5.8 million homes and businesses across Scotland and the south of England.

Due to a manufacturing issue, we are currently replacing or upgrading certain valve types that are at risk of bolt failure. In extreme cases, this can lead to gas escapes. This is a safety hazard and we have produced this guide to ensure you undertake adequate safety precautions when working near gas valves.

## Identifying gas valves

The images below are an illustration of typical gas valves. Please note, valves come in various colours, shapes and sizes, and you may come across a valve that looks different to those found in the images.



## What should you do?

When planning to work in our network areas, please observe the following points:

1. You must contact us before starting any work activity within **3.0m** of a gas valve identified on our maps.
2. If an unexpected gas valve is exposed you must immediately stop excavation works and report this to us.
3. To protect yourself against the risks associated with exposing a valve, we advise that you contact us when in doubt.

## Contact details

If you require further information or need assistance please contact us:

Safety Admin Team: **0800 912 1722**  
[plantlocation@sgn.co.uk](mailto:plantlocation@sgn.co.uk)

Valve enquiries will be forwarded to a local engineer who will provide further safety information.



Our Ref: 29231323      Your Ref: 8856 Northfleet

Thursday, 20 April 2023

Danny Simms  
9-11 Lowater Street Carlton  
Nottingham  
Nottinghamshire  
NG4 1JJ

Dear Danny Simms

Thank you for your enquiry dated Thursday, 20 April 2023

Please find an extract from our mains records for your proposed work area, any SGN assets are described in the map legend. **On some occasions blank maps may be sent to you, this is due to your proposed work being in a no gas area but within our operational boundaries.**

This mains record only shows the pipes owned by SGN in our role as a Licensed Gas Transporter (GT). Please note that privately owned gas pipes or pipes owned by other GTs may be present in this area and information regarding those pipes needs to be requested from the owners. If we know of any other pipes in the area we will note them on the plans as a shaded area and/or a series of x's.

**The information shown on this plan is given without obligation or warranty and the accuracy cannot be guaranteed. Service pipes, valves, siphons, stub connections etc. are not shown but their presence should be anticipated. Your attention is drawn to the information and disclaimer on these plans. The information included on the plan is only valid for 28 days.**

On the mains record you may see the low/medium/intermediate pressure gas main near your site. There should be no mechanical excavations taking place above or within 0.5m of a low/medium pressure system or above or within 3.0m of an intermediate pressure system. You should, where required confirm the position using hand dug trial holes.

A colour copy of these plans and the gas safety advice booklet enclosed should be passed to the senior person on site in order to prevent damage to our plant and potential direct or consequential costs to your organisation.

Safe digging practices in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of the 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 relevant people (direct labour or contractors) working for you on or near gas pipes.

It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge to you or the organisation carrying out work on your behalf. Your works should be carried out in such a manner that we are able to gain access to our apparatus throughout the duration of your operations.

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

Yours sincerely,  
The Safety Admin Team  
**For more information, visit our Dig Safely pages on [sgn.co.uk](http://sgn.co.uk)**  
Tel: 0800 912 1722





# SGN

Your gas. Our network.

## Dig safely

Measures to avoid injury  
and damage to gas pipes



**The following protective and precautionary measures MUST be taken when working in the vicinity of gas mains and services.**

It is the responsibility of the property owner or company carrying out the work to make sure they've complied with the relevant legislation and Health and Safety Executive (HSE) guidance, eg HS(G)47. In practice, this means that whoever is carrying out the work MUST obtain gas mains location information and/or maps showing the indicative position of the gas network before any work takes place.

**To avoid injury to yourself, your employees, colleagues and the general public you MUST suitably mark the position of the pipes on site.**

HS(G)47 outlines best practice that should be followed to ensure you work safely:

1. Plan the work, obtain maps.
2. Detecting, identifying and marking underground services.
3. Safe excavation and safe digging practices.

In addition to the requirements under the Health and Safety At Work etc. Act 1974 to prevent injuries to employees and others (not employed), it is an offence under regulation 15 of the Pipelines Safety Regulations 1996 to cause damage to a pipeline (which includes gas mains and services as well as higher pressure pipelines) so as to give rise to a danger to persons.

**You MUST make sure that current full colour copies of our maps are issued to all relevant personnel on site and they're aware of the presence and location of our gas mains and services prior to any excavation.**

## In a gas emergency

If you cause a gas leak or suspect a main or service pipe or equipment is leaking, you **MUST** take the following emergency actions immediately:

- Ask people to move away from the area of the gas escape.
- Call **0800 111 999** immediately.

1. Don't attempt to repair the escape or stop the leakage.
2. As gas may enter buildings, ask people in the surrounding premises to leave until it's safe for them to return.
3. Stop anyone going near the immediate vicinity of the gas escape.
4. Prohibit smoking and extinguish all naked flames.
5. Don't use mobile phones or other ignition sources.
6. Assist our representatives and other emergency services such as the police, ambulance, and fire service as requested.

### Additional reference material

- SGN guidance for Safe Working in the Vicinity of Pipelines & Associated Installations operating >7barg. Applicable for HP only.
- HS(G)47 **Avoiding Danger from Underground Services** available from [hse.gov.uk](http://hse.gov.uk)
- NJUG **Utilities Guidance on Positioning and Colour Coding of Apparatus** available from [njug.org.uk](http://njug.org.uk)







# When working near our gas mains and services

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## Safe system of work

To satisfy ourselves that work in the vicinity of our gas mains is being carried out safely, we may ask for a copy of your risk assessment and/or method statement paperwork.

Where work falls under the Construction (Design and Management) Regulations 2015 reference to our gas mains and services MUST be made within your site Health and Safety file.

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## Financial

Every reasonable precaution MUST be taken to avoid personal injury or damage to our gas network at all times.

If we incur any costs to repair direct or consequential damage or divert any gas main or service, you'll be recharged in full.

## HSE

Any damage to our gas mains or services will be subject to legislative reporting responsibilities to the Health and Safety Executive under Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013, Gas Safety Management Regulations 1996, and the Pipelines Safety Regulations 1996.

## Minimum safe working distances

Depending on the activity being undertaken and the gas mains or services you are working within the vicinity of, there are different safe distances that MUST be adhered to. SGN plant protection officers or pipeline engineers will inform you of these if required.

## Surface boxes and manholes

Do not bury or move our surface boxes. Free access MUST be maintained during and after your work. No manhole cover or other structure can be built over, around or under a gas main, and no work is to be carried out that results in a reduction or increase in cover or protection without prior written agreement.

## Deep excavations

Adequate protection, approved by us, MUST be applied for any deep excavations in the vicinity of our gas mains and services that may affect its security and integrity. Ground movement around gas mains MUST be prevented. We MUST be contacted if a sewer trench or any other water authority is to be constructed at greater than 1.5 metres depth near a buried gas main or service pipe. You MUST give us detailed drawings showing the line and width of the proposed sewer or other trench, together with the soil group classification of the area concerned.



## Crossing our mains or services

The placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over our gas mains is prohibited unless specifically agreed protective measures (ie the construction of reinforced crossing points) have been carried out. This is particularly important where reductions in side support or ground cover are planned. You **MUST NOT** carry out any work in servitudes/easements without our prior written consent.

## Exposed plant

Where excavations in the vicinity of our gas mains affect its support, the plant **MUST** be adequately supported and protected in consultation with us and to our satisfaction. It **MUST** be protected from impact, restraints and thrust blocks, and supports **MUST NOT** be removed without our agreement.

## Hot work

One of our representatives should be present when welding or other hot work involving naked flames is being carried out near our gas mains, as there's potential for heat damage to plastic pipeline/coatings.

## Backfilling

Concrete backfill should not be placed closer than 300mm to our mains. No concrete or hard material should be placed under or adjacent to any of our gas mains. Shuttering **MUST** be constructed to maintain the stated clearances and prevent fresh concrete encasing our mains or services. Material used for backfill around our gas mains **MUST** conform to the following:

- If sand, it **MUST** be well-graded in accordance with BS EN 12620:2002.
- It **MUST NOT** contain any sharp particles (stones, bricks, lumps or corrosive materials).
- Foamed concrete **MUST NOT** be used.
- It **MUST** be laid to a minimum depth of 250mm above the crown of the gas main.

Note: Power ramming **MUST NOT** take place until a 300mm hand rammed layer has been completed over the crown of the main.

## Access

Free access to our sites, mains and services, including temporary structures and spoil heaps **MUST** be available at all times.











## Mechanical excavation

Mechanical excavators (including breaker attachments) MUST NOT be used within the following distances from the confirmed location of our gas mains and services shown on our gas maps without prior agreement:

Type of mains and services	Gas map identification	Hand excavation required inside	Pipe pressure indication shown on map
Low Pressure (LP)	0 - 75mbar	0.5 metres	
Medium Pressure (MP)	75mbar to 2 bar	0.5 metres	
Intermediate Pressure (IP)	2 - 7 bar	3.0 metres	
High Pressure (HP)	Above 7 bar	You must seek approval from us prior to any work	

# Major accident hazard pipelines

## High pressure pipeline

**No work is to take place near an HP pipeline until it is agreed with us.** After agreement and before any work does take place, the location of our pipeline **MUST** be marked up and its position confirmed by digging trial holes with our personnel in attendance.



Pipeline markers

## High pressure

We will be involved in any work taking place near high pressure pipelines. We will provide you with additional information that you **MUST** familiarise yourself with before carrying out any work.

**The default method of excavating near high pressure gas pipelines MUST always be by hand.**



## Wind turbines

The UK Onshore Pipelines Operations Association (UKOPA) has identified the appropriate exclusion zone (distance from the base of the wind turbine mast to the edge of the pipeline) as 1.5 times the turbine height. Contact MUST be made with us during the planning stages of a wind turbine or wind farm.



# Tree planting

If trees or shrubs are to be planted in the vicinity of our gas mains and services, the selection of tree or shrub type and how it's planted **MUST** be considered carefully. This is to avoid root damage to buried mains or services, and to ensure our subsequent excavations for main repair and maintenance won't damage the trees or shrubs.

Written approval from us **MUST** be obtained before any tree planting is carried out on a servitude/easement. Any approval we grant to plant trees

The following trees and those of similar size (deciduous or evergreen) **MUST NOT** be planted within 6m of the centre line of the main: ash, beech, birch, most conifers, elm, maple, lime, horse chestnut, oak, and sycamore. Apple and pear trees are also included in this category.

Dwarf apple stocks may be planted up to 3m of the centre line of the main.



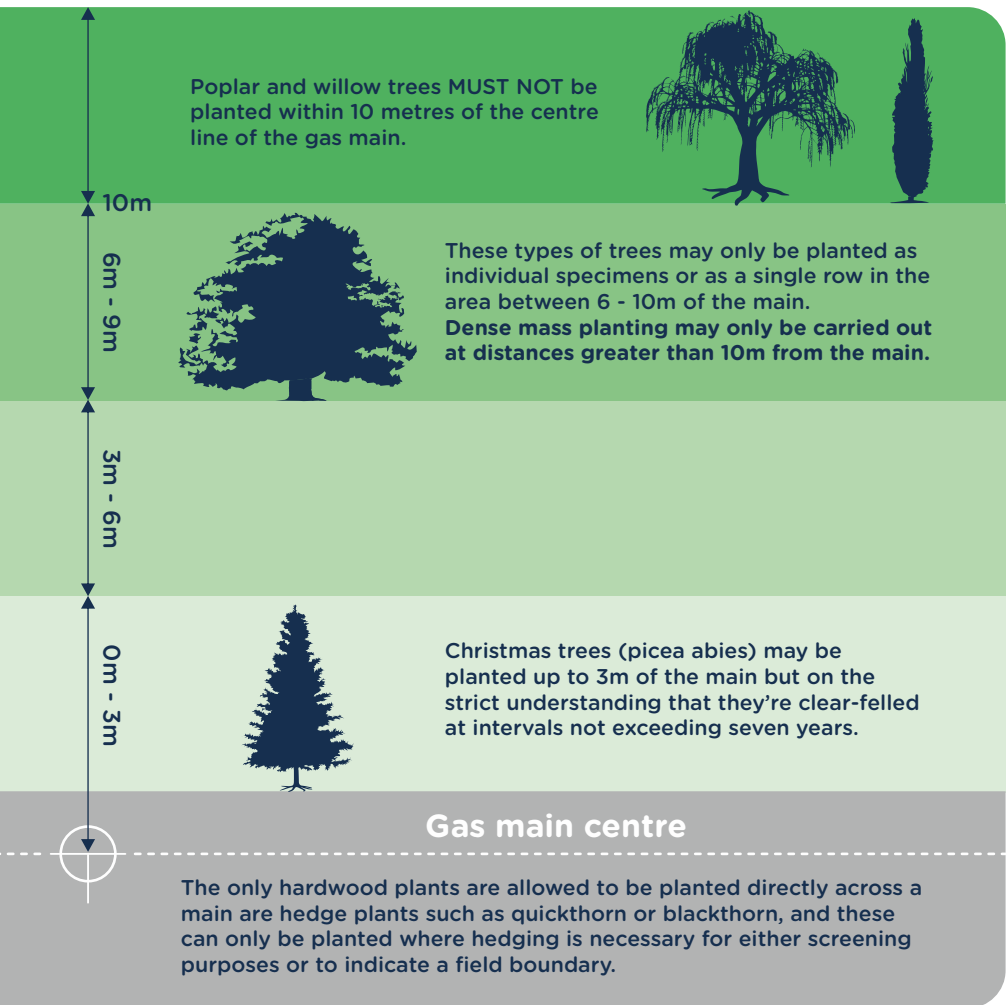
In cases where screening is required, the following are shallow rooting and may be planted close to the gas mains and services: blackthorn, broom, cotoneaster, elder, hazel, laurel, quickthorn, privet, snowberry and most ornamental shrubs.

## Gas main centre

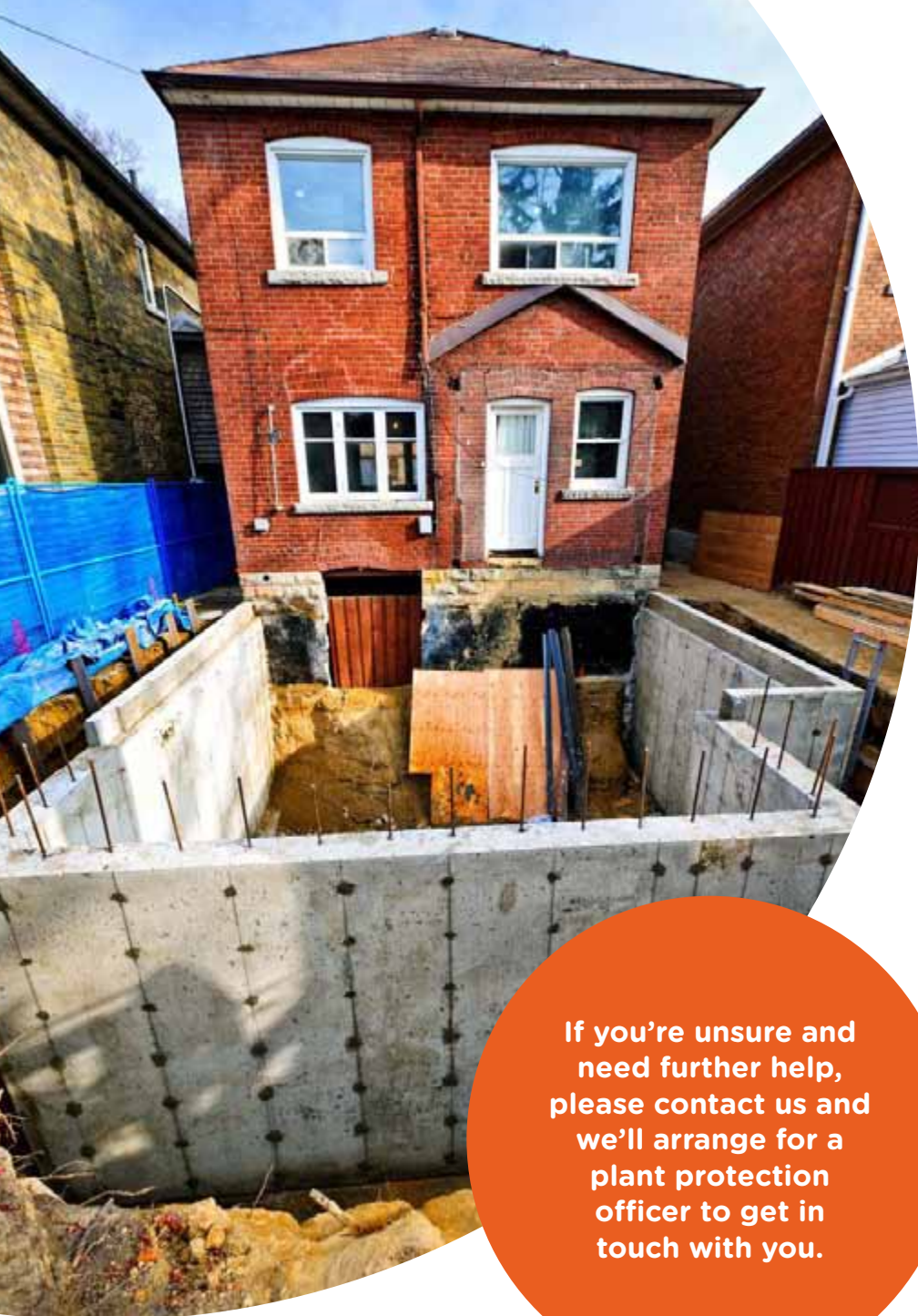
Raspberries, gooseberries and blackcurrants may be planted on the gas main, but a four metre strip, centred on the main, **MUST** be left clear at all times.

on a servitude/easement will be subject to us retaining the right to remove any tree, which in our opinion may become a danger to our mains in the future.

The written consent to plant trees will state what area may be planted and also the type of tree. The diagram details the specific species and the distances they **MUST** be planted from gas mains or services. You **MUST** contact us for further information.



Note: For further guidance, please refer to NJUG 10.



**If you're unsure and need further help, please contact us and we'll arrange for a plant protection officer to get in touch with you.**





We provide a free plant location enquiry service and we're always happy to help.



Visit our **Dig safely** pages on [sgn.co.uk](https://www.sgn.co.uk)



**0800 912 1722** \*

\*All calls are recorded and may be monitored



# Sewer

(Southern Water)





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The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2023 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.  
 WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

Combined Outfall	Fall Outfall	Surface Water Outfall	Surface Water Inlet								

daniel.simms@premiersurveys.co.uk  
 8856 Northfleet  
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Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
0301	F	5.33	3.22	
0302	F	5.06	3.36	
1201	F	5.34	4.88	
1301	F	6.27	2.82	
1302	F	6.53	2.78	
1303	F	5.23	3.02	
1304	F	6.02	3.27	
2002	F	24.96	23.41	
2008	F	8.17	6.01	
2101	F	7.24	5.23	
2102	F	7.70	5.58	
2202	F	31.27	30.42	
2203	F	34.27	33.60	
2301	F	28.91	10.41	
2302	F	28.90	10.41	
2303	F	7.54	2.74	
2602	F	0.00	0.00	
2603	F	0.00	0.00	
2604	F	0.00	0.00	
2706	F	4.80	0.00	
3000	F	0.00	0.00	
3101	F	0.00	0.00	
3102	F	0.00	0.00	
3103	F	0.00	0.00	
3104	F	0.00	0.00	
3201	F	29.20	26.79	
3202	F	29.43	26.96	
3203	F	29.71	27.46	
3204	F	29.79	27.67	
3205	F	28.84	27.16	
3206	F	27.17	10.17	
3207	F	26.85	10.00	
3208	F	28.67	27.16	
3209	F	28.54	27.39	
3210	F	28.08	27.44	
3211	F	28.12	27.64	
3212	F	28.06	27.72	
3213	F	28.57	26.53	
3214	F	28.86	26.66	
3215	F	28.86	28.56	
3216	F	28.86	28.28	
3217	F	28.32	28.00	
3218	F	0.00	0.00	
3219	F	29.46	27.11	
3601	F	0.00	0.00	
4001	F	29.31	28.61	
4002	F	29.18	28.35	
4003	F	29.31	28.50	
4004	F	29.15	28.25	
4005	F	29.43	28.33	
4006	F	29.11	27.61	
4008	F	29.51	26.37	
4009	F	0.00	0.00	
4010	F	0.00	0.00	
4101	F	29.19	9.84	
4102	F	29.74	26.59	
4103	F	30.37	0.00	
4104	F	28.87	28.21	
4105	F	28.76	27.82	
4106	F	28.35	24.60	
4107	F	28.46	24.37	
4108	F	29.04	24.08	
4109	F	0.00	0.00	
4110	F	28.92	10.52	
4112	F	28.89	9.69	
4113	F	29.15	9.65	
4114	F	29.33	27.51	
4115	F	29.58	28.42	
4116	F	29.67	28.67	
4119	F	29.81	29.80	
4120	F	0.00	0.00	
4121	F	0.00	0.00	
4122	F	29.92	10.17	
4125	F	29.81	0.00	
4201	F	27.20	26.05	
4202	F	27.30	25.63	
4204	F	29.44	26.64	
4602	F	5.39	0.00	
5601	F	4.82	0.22	
5602	F	4.92	0.32	
6302	F	5.47	-0.03	
6402	F	5.26	-0.42	
6403	F	4.95	-1.25	
6404	F	5.24	0.00	
6501	F	3.97	-0.55	
6502	F	7.39	-0.13	
6601	F	5.54	-0.13	
7301	F	5.22	1.02	
7303	F	5.30	0.15	
7304	F	5.26	0.00	
7401	F	5.07	-0.93	
7402	F	5.07	-1.33	
8301	F	5.32	3.55	
9301	F	5.00	3.55	
9302	F	5.03	3.55	
9303	F	0.00	0.00	
0351	S	5.28	4.34	
0352	S	5.03	4.33	
1250	S	6.68	4.80	
1251	S	5.99	3.83	
1351	S	5.22	4.57	
1352	S	6.38	3.50	
2050	S	8.16	6.31	
2150	S	7.65	5.84	
2151	S	7.20	5.33	

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
5350	S	0.00	0.00	
5450	S	0.00	0.00	
7250	S	0.00	0.00	
7351	S	5.12	0.00	
8351	S	5.28	3.65	
9351	S	5.05	4.12	
9352	S	5.29	3.87	

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
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Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
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Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
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Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
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# Water

(Southern Water)





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The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2023 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.  
WARNING: BAC pipes are constructed of Bonded Asbestos Cement.  
WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

	Water Main		Water Hydrant
	Proposed Main		Water Meter
	Trunk Main		Water Valve
	Non-potable Main		
	Abandoned Main		

daniel.simms@premiersurveys.co.uk  
 8856 Northfleet  
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# CATV

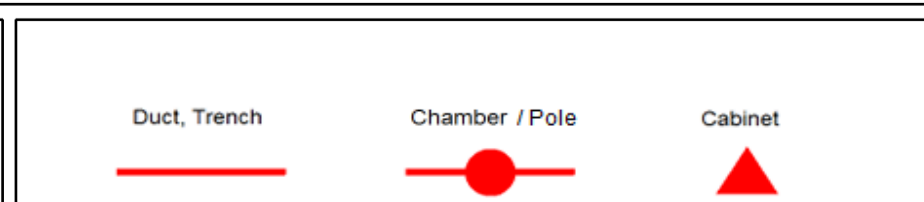
(Virgin Media)



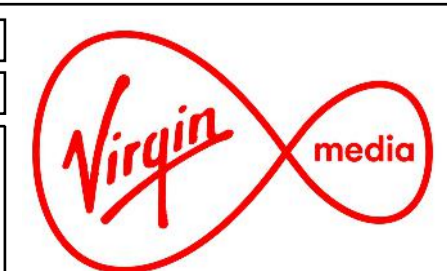


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Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there 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 2023 Ordnance Survey 100019209.



daniel.simms@premiersurveys.co.uk
8856 Northfleet
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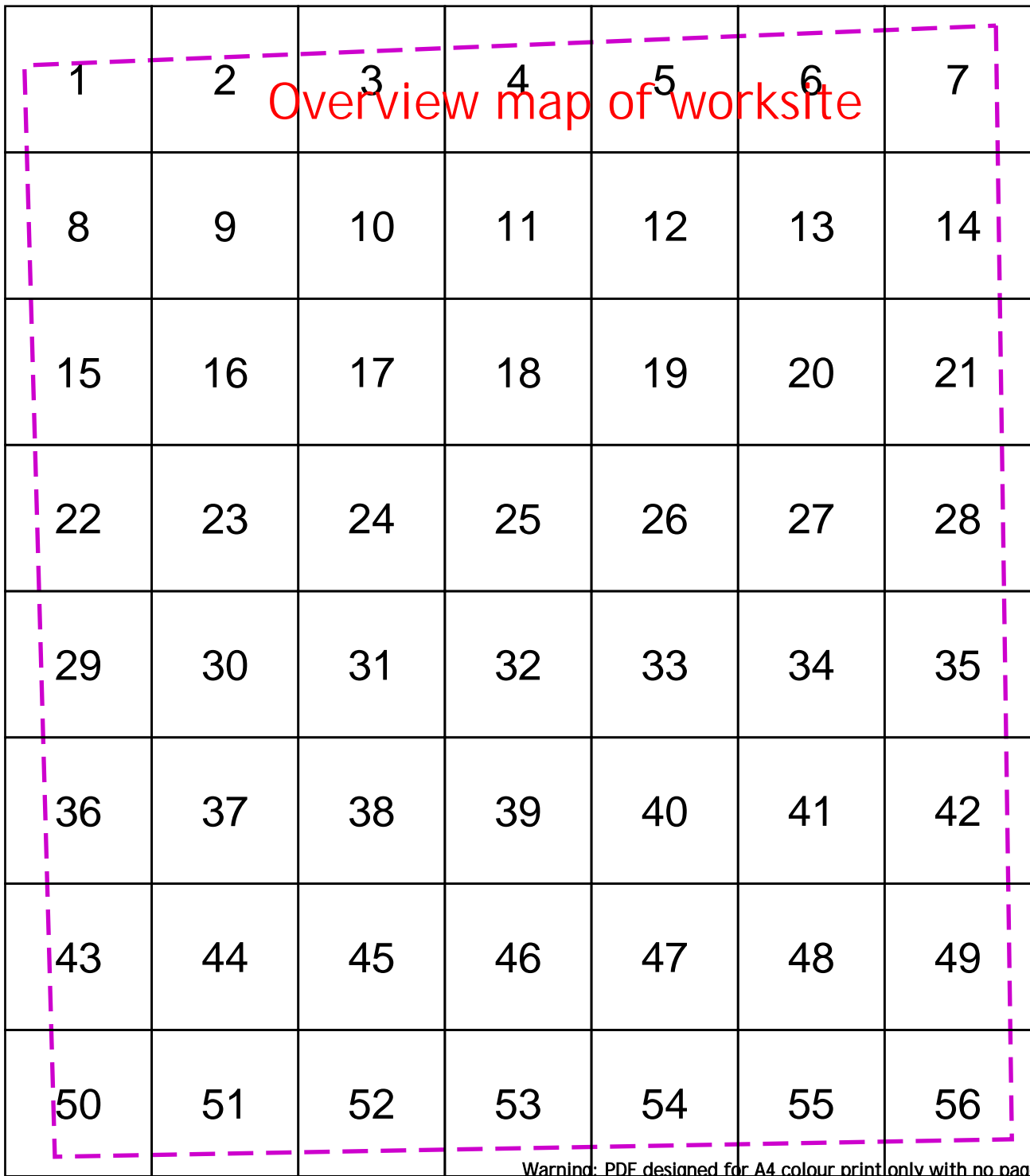
# Unaffected



# Gas

(Cadent)





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Dig Sites

Area:

Line:

- LP Mains
- MP Mains
- IP Mains
- LHP Mains

- Valve
- Depth of cover
- Syphon

- Diameter Change
- Material Change
- Out of Standard Service

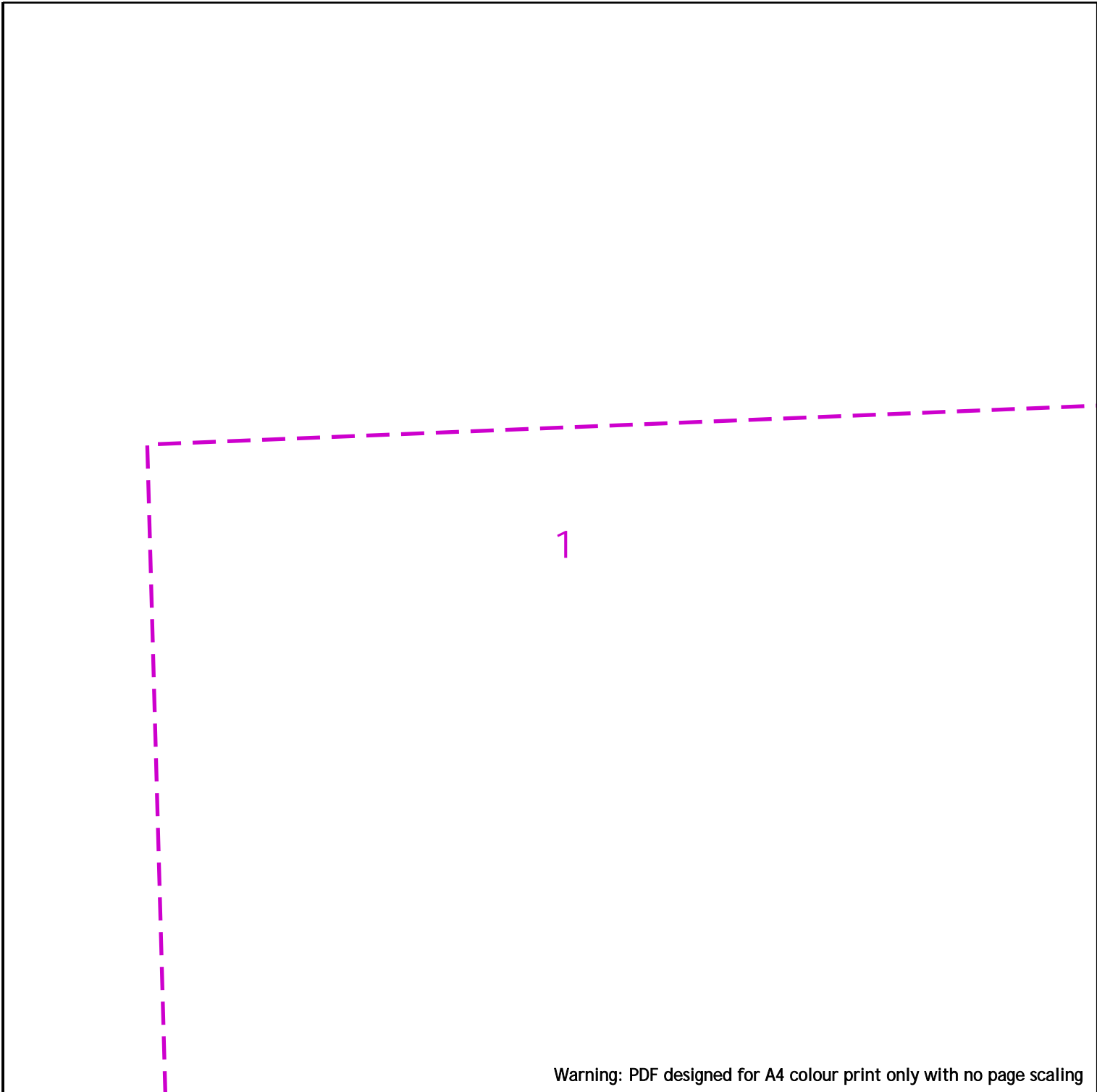
Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856  
 Northfleet

**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.

**In case of emergency call - 0800 111 999**

Scale: 1:4100 (When plotted at A4)



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25m

Dig Sites      Area:      Line:

- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |



Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856 Northfleet  
 View extent: 100m, 100m

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**In case of emergency call - 0800 111 999**

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856  
 Northfleet

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**In case of emergency call - 0800 111 999**

Scale: 1:500 (When plotted at A4)

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
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Scale: 1:500 (When plotted at A4)

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
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**In case of emergency call - 0800 111 999**











Scale: 1:500 (When plotted at A4)

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856 Northfleet

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**In case of emergency call - 0800 111 999**

Scale: 1:500 (When plotted at A4)

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Dig Sites Area: Line:



- LP Mains
- MP Mains
- IP Mains
- LHP Mains
- Valve
- Depth of cover
- Syphon
- Diameter Change
- Material Change
- Out of Standard Service

Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856  
 Northfleet

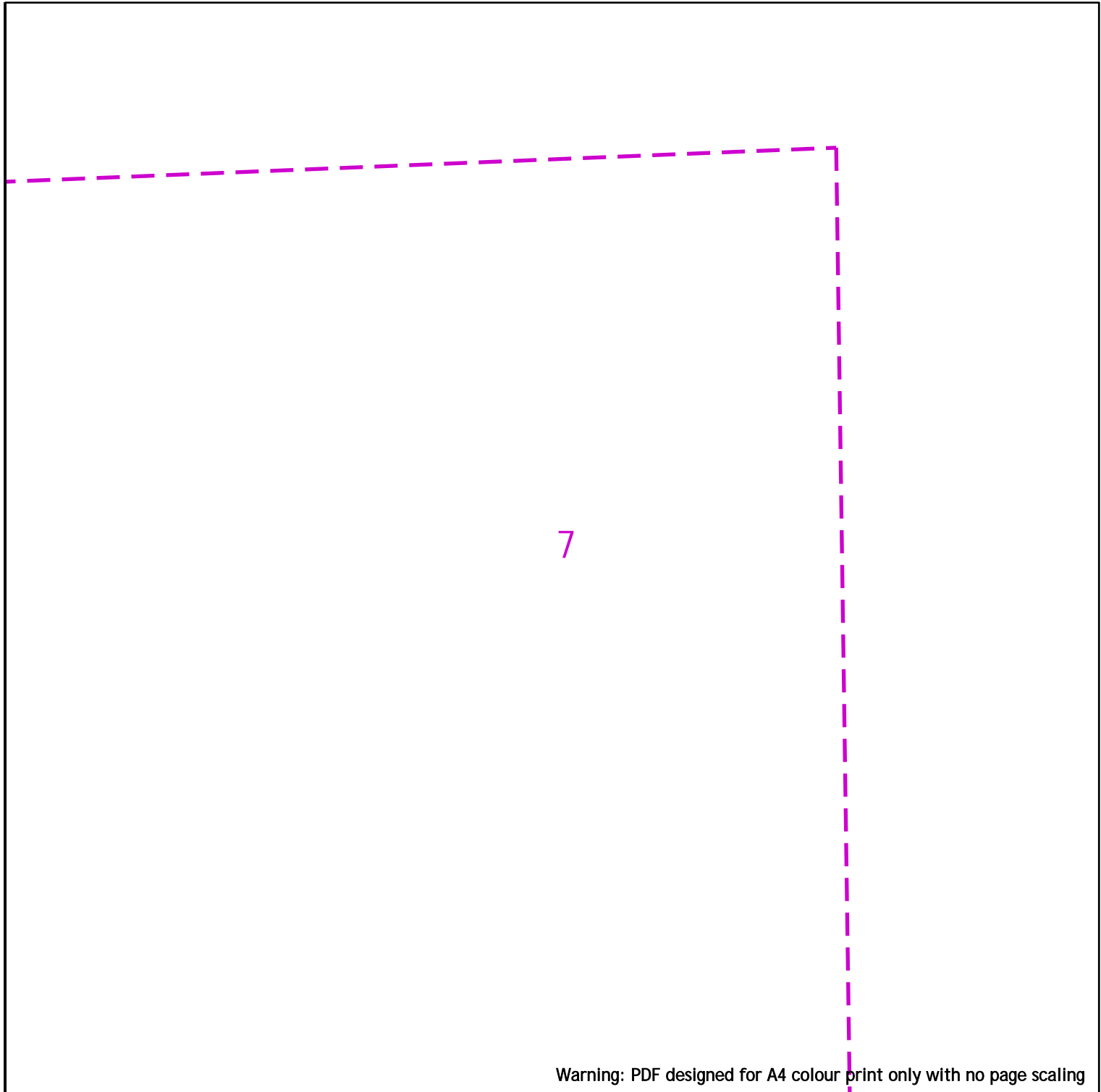
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**In case of emergency call - 0800 111 999**

Scale: 1:500 (When plotted at A4)





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Dig Sites Area: Line:

- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |



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Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856 Northfleet  
 View extent: 100m, 100m  
 Scale: 1:500 (When plotted at A4)

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Dig Sites Area: Line:

- LP Mains
- MP Mains
- IP Mains
- LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service



Date Requested: 20/04/2023  
 Job Reference: 29231323  
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Dig Sites Area: Line:



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



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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Dig Sites Area: Line:



- LP Mains
- MP Mains
- IP Mains
- LHP Mains
- Valve
- Depth of cover
- Syphon
- Diameter Change
- Material Change
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Dig Sites Area: Line:



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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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14

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 25m


Dig Sites      Area:       Line: 



	LP Mains
	MP Mains
	IP Mains
	LHP Mains

 Valve

 Depth of cover

 Syphon

 Diameter Change

 Material Change

 Out of Standard Service

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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|  | LP Mains  |  | Valve          |  | Diameter Change         |
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- |   |           |   |                |   |                         |
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|  | LP Mains  |  | Valve          |  | Diameter Change         |
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Dig Sites Area: Line:



- LP Mains
- MP Mains
- IP Mains
- LHP Mains



Valve



Depth of cover



Syphon



Diameter Change



Material Change



Out of Standard Service

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Dig Sites Area: Line:



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**In case of emergency call - 0800 111 999**

Scale: 1:500 (When plotted at A4)

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



Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856  
 Northfleet

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |   |                |   |                         |

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
|  | IP Mains  |  | Syphon         |  | Out of Standard Service |
|  | LHP Mains |  |                |  |                         |

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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 25m

Dig Sites      Area:       Line: 



-  LP Mains
-  MP Mains
-  IP Mains
-  LHP Mains

-  Valve
-  Depth of cover
-  Syphon

-  Diameter Change
-  Material Change
-  Out of Standard Service

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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
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Dig Sites Area: Line:



- LP Mains
- MP Mains
- IP Mains
- LHP Mains

- Valve
- Depth of cover
- Syphon

- Diameter Change
- Material Change
- Out of Standard Service

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Dig Sites




Area: 




Line: 



-  LP Mains
-  MP Mains
-  IP Mains
-  LHP Mains

-  Valve
-  Depth of cover
-  Syphon

-  Diameter Change
-  Material Change
-  Out of Standard Service

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- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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Dig Sites Area: Line:



- LP Mains
- MP Mains
- IP Mains
- LHP Mains

- Valve
- Depth of cover
- Syphon

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**In case of emergency call - 0800 111 999**

Scale: 1:500 (When plotted at A4)



43

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Dig Sites Area: Line:

- LP Mains
- MP Mains
- IP Mains
- LHP Mains
- Valve
- Depth of cover
- Syphon
- Diameter Change
- Material Change
- Out of Standard Service



Date Requested: 20/04/2023  
 Job Reference: 29231323  
 Site Location: 562731 174436  
 Requested by: Mr Danny Simms  
 Your Scheme/Reference: 8856 Northfleet  
 View extent: 100m, 100m

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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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-  LP Mains
-  MP Mains
-  IP Mains
-  LHP Mains
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- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
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Dig Sites Area: Line:



- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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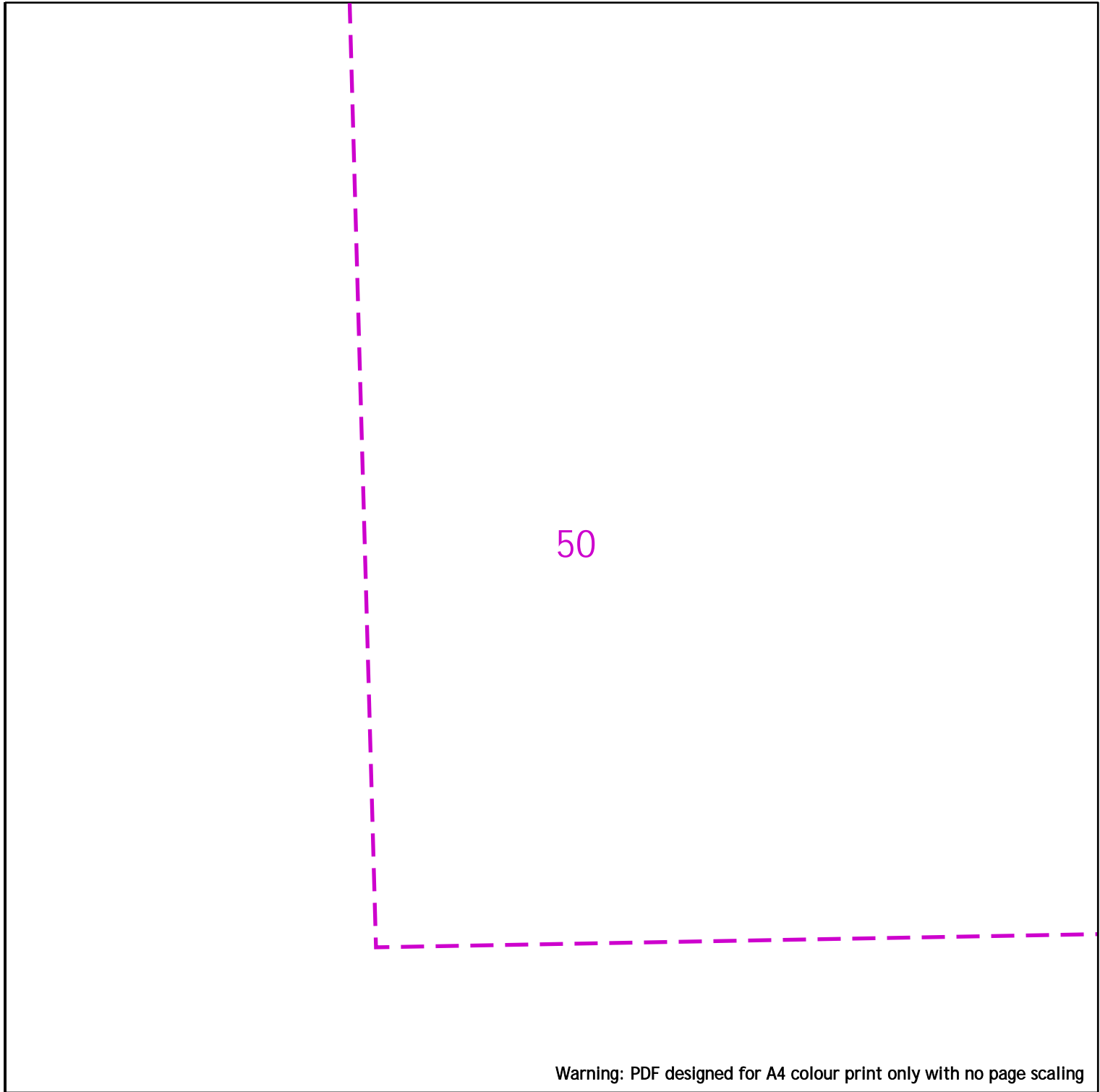
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25m

Dig Sites      Area:      Line:

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|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
|  | MP Mains  |  | Depth of cover |  | Material Change         |
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Dig Sites Area:  Line: 



- |   |           |   |                |   |                         |
|---|-----------|---|----------------|---|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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56

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- |  |           |  |                |  |                         |
|--|-----------|--|----------------|--|-------------------------|
|  | LP Mains  |  | Valve          |  | Diameter Change         |
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# **Specification for Safe Working in the Vicinity of Cadent Assets**

**CAD/SP/SSW/22**

March 2022



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## Cadent contact details



### Central admin team

**Address:** Cadent Gas Limited, Pilot Way, Anstey Park, Coventry, CV7 9JU

**Phone:** 0800 688 588

**Email:** [plantprotection@cadentgas.com](mailto:plantprotection@cadentgas.com)

### East of England Operations Plant Protection

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

**Email:** [eaplantprotectionops@cadentgas.com](mailto:eaplantprotectionops@cadentgas.com)

### East Midlands Operations Plant Protection

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

**Email:** [emplantprotectionops@cadentgas.com](mailto:emplantprotectionops@cadentgas.com)

### North London Operations Plant Protection

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

**Email:** [nlplantprotection@cadentgas.com](mailto: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](mailto:plantprotection.nw@cadentgas.com)

### West Midlands Operations Plant Protection

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

**Email:** [plantprotection.wm@cadentgas.com](mailto: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](http://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](http://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

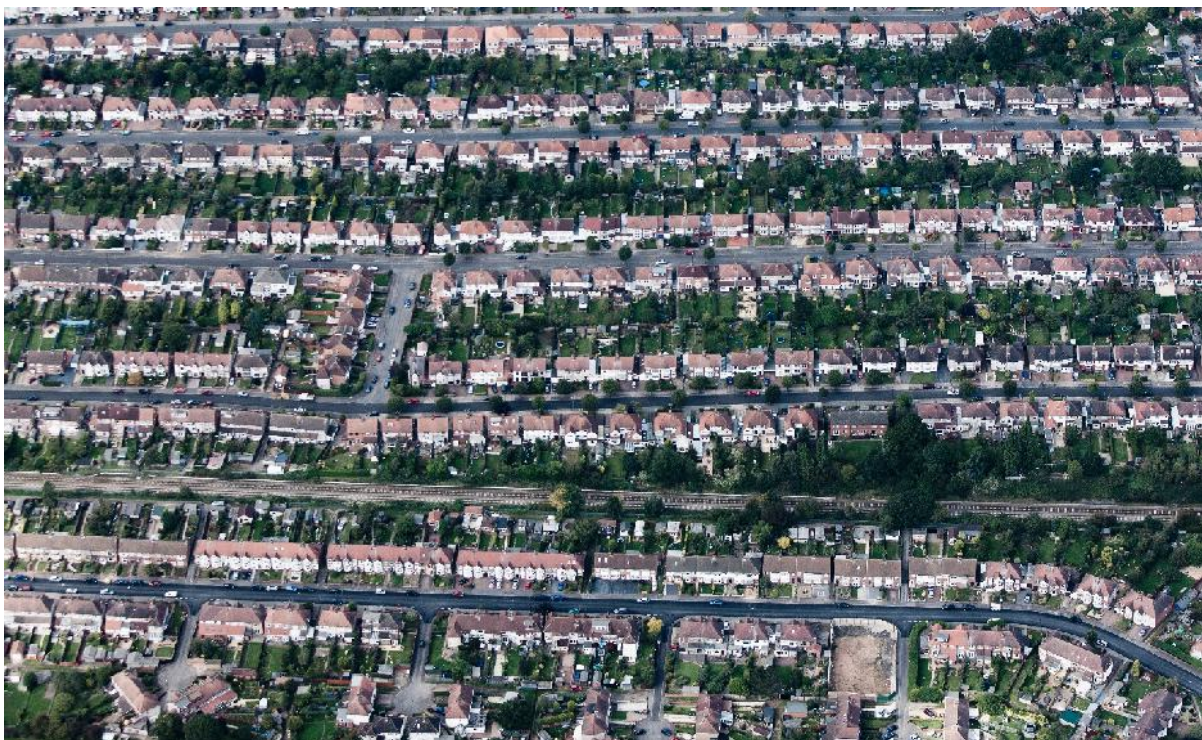
This specification sets out the safety precautions and other conditions associated with working in the vicinity of Cadent assets, located in negotiated easements (see Section 13) and public highways.

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](mailto:diversions@cadentgas.com) or on 0330 678 1034.

Visit [www.cadentgas.com/diversions](http://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.

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

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

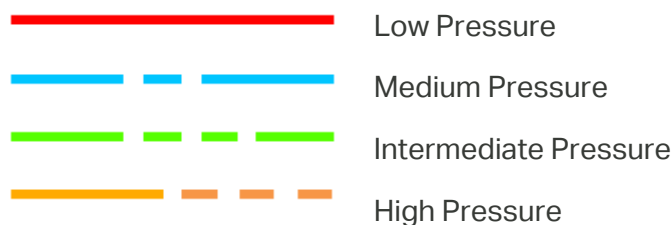
This should initially be carried out through non-intrusive methods utilising pipe locators where possible. The indicative location should be verified through trial holes. Once located, the gas assets should be marked out at regular intervals using asset location markers with triangular flags (see Appendix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



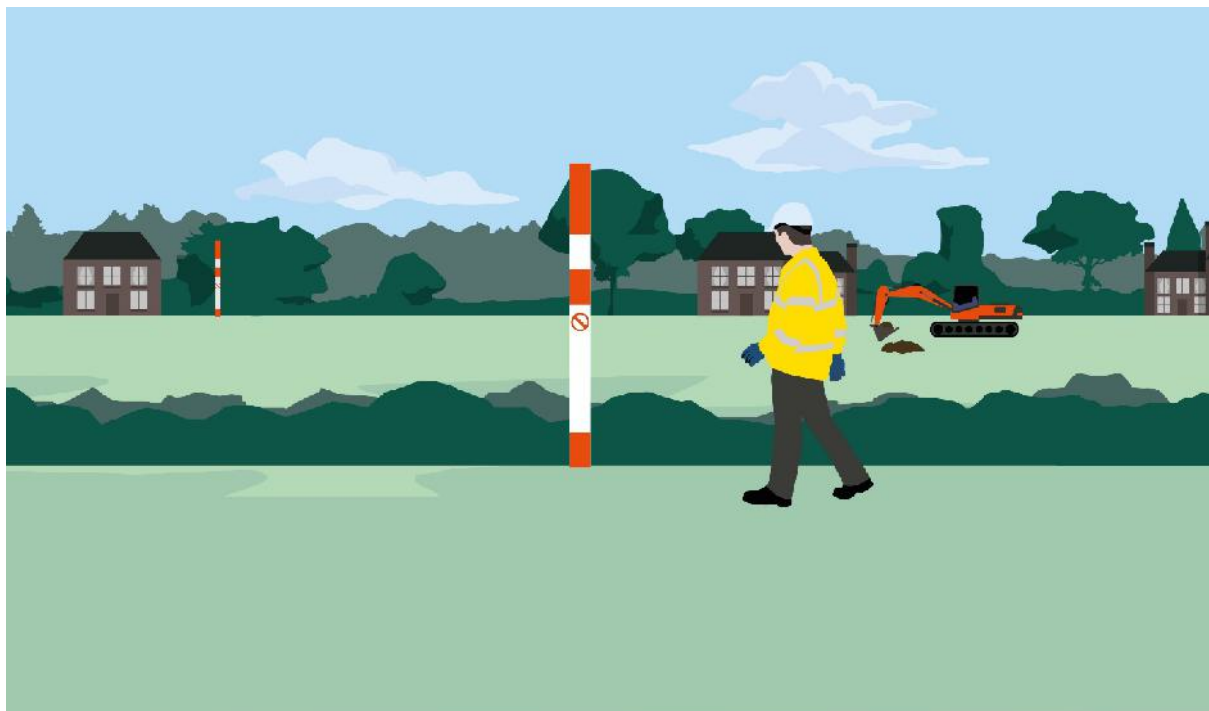
## 4. Temporary and Permanent Protective Measures

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.



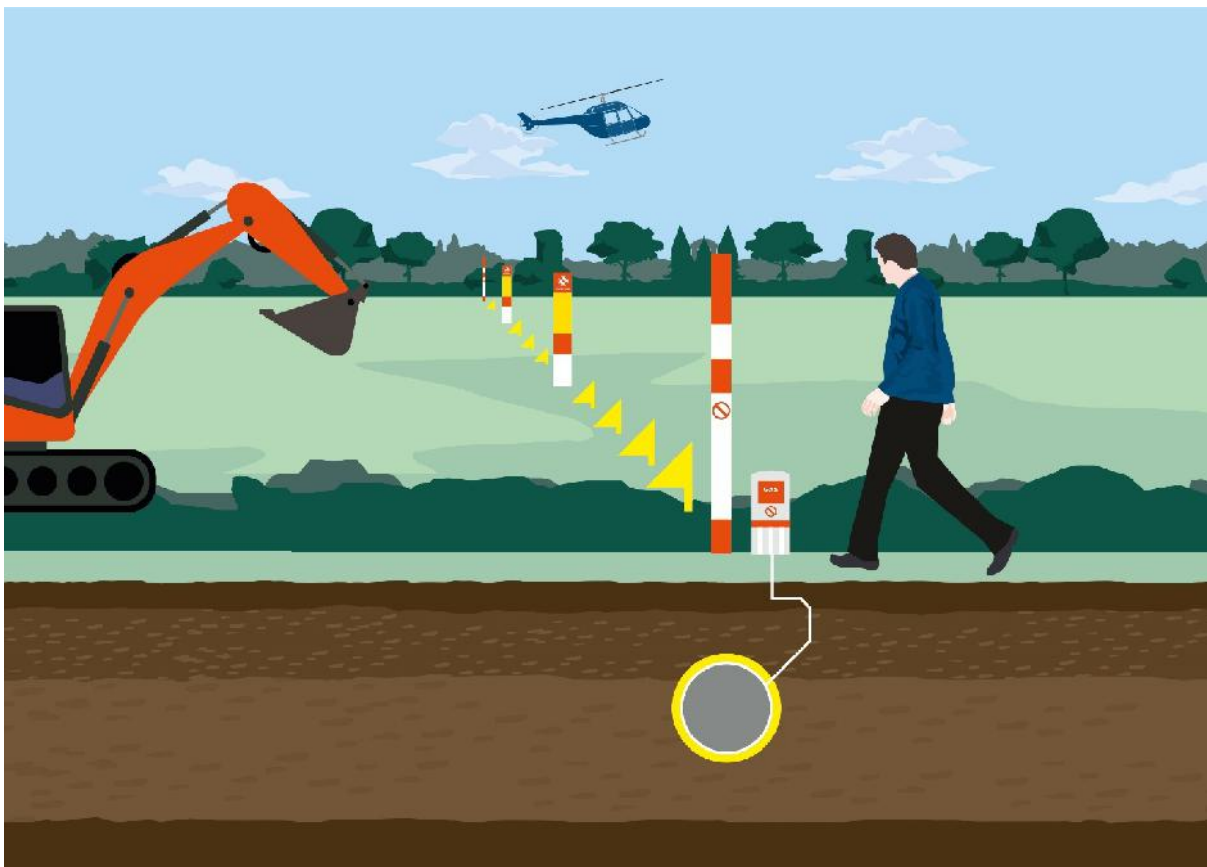
## 5. Working in the Vicinity of a High or Intermediate Pressure Gas Asset (Operating at Pressures Greater than 2 bar)

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*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.*

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## 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.

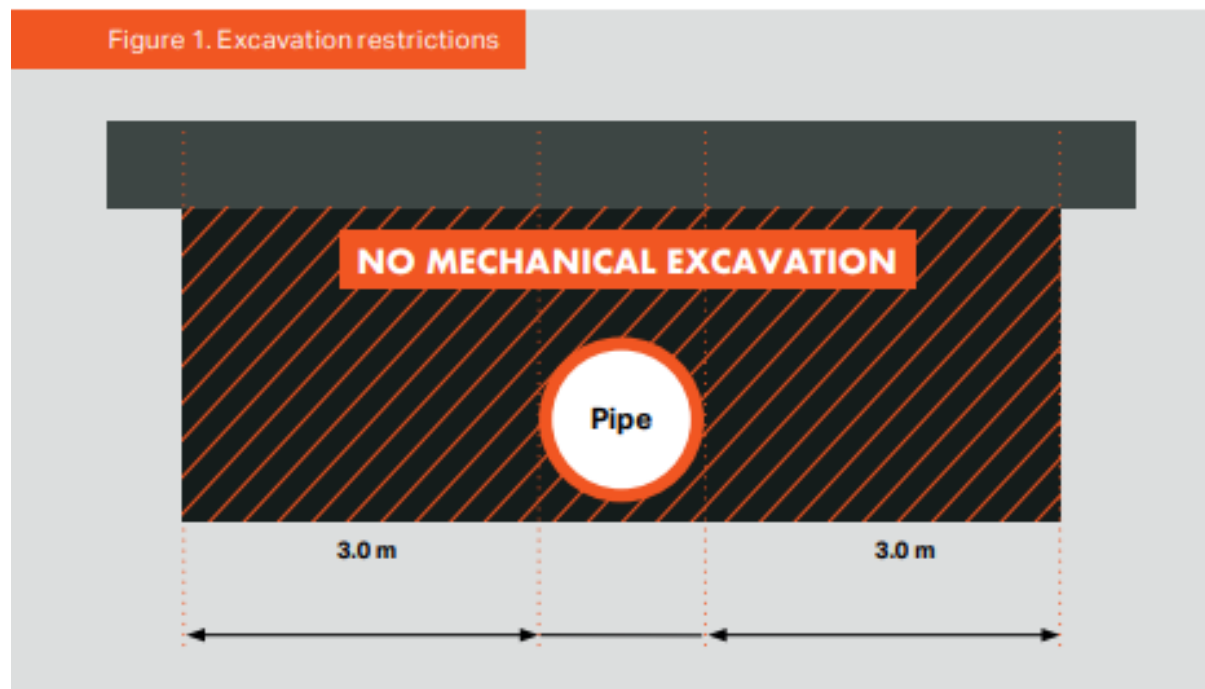


Any fitting, attachment or connecting pipework shall be exposed by hand.

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.

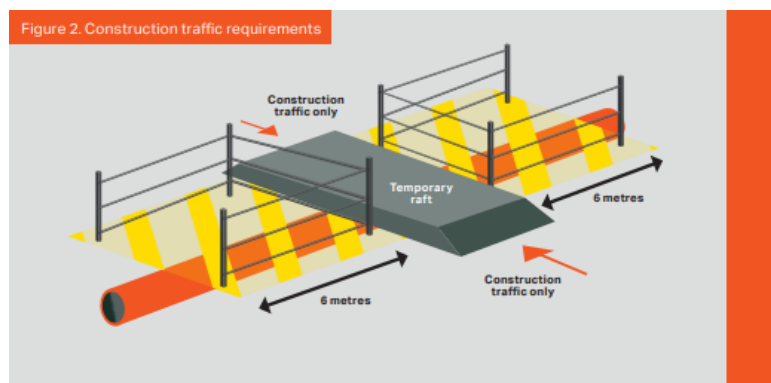
The installation of electrical cables parallel to Cadent assets may induce currents into the asset. This may interfere with the effective operation of the cathodic protection system. In these instances, Cadent will require the promoter of the works to conduct pre and post energisation potential surveys 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

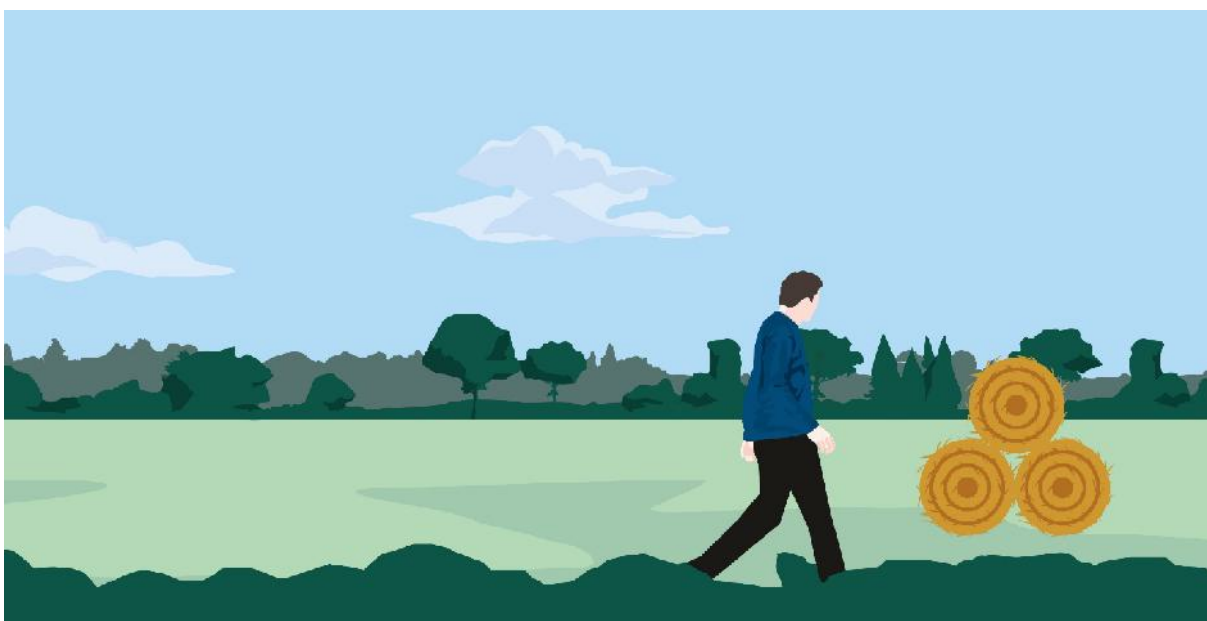
No backfilling should be undertaken without Cadent's agreement to proceed and the Cadent Plant Protection Officer will stipulate the necessary requirements. Some equipment may not be suitable for use over or around an asset due to the adverse effects of excessive compaction and vibration levels. The 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

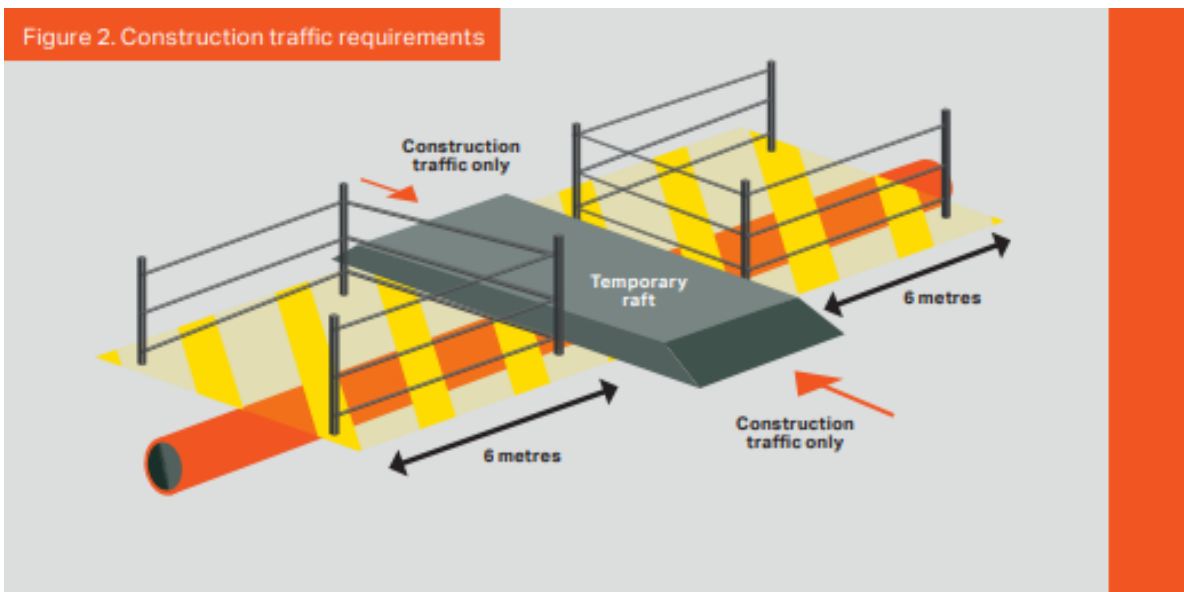
***Note: A 5mph speed restriction should be enforced at all crossing points.***



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/m<sup>2</sup> 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 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.

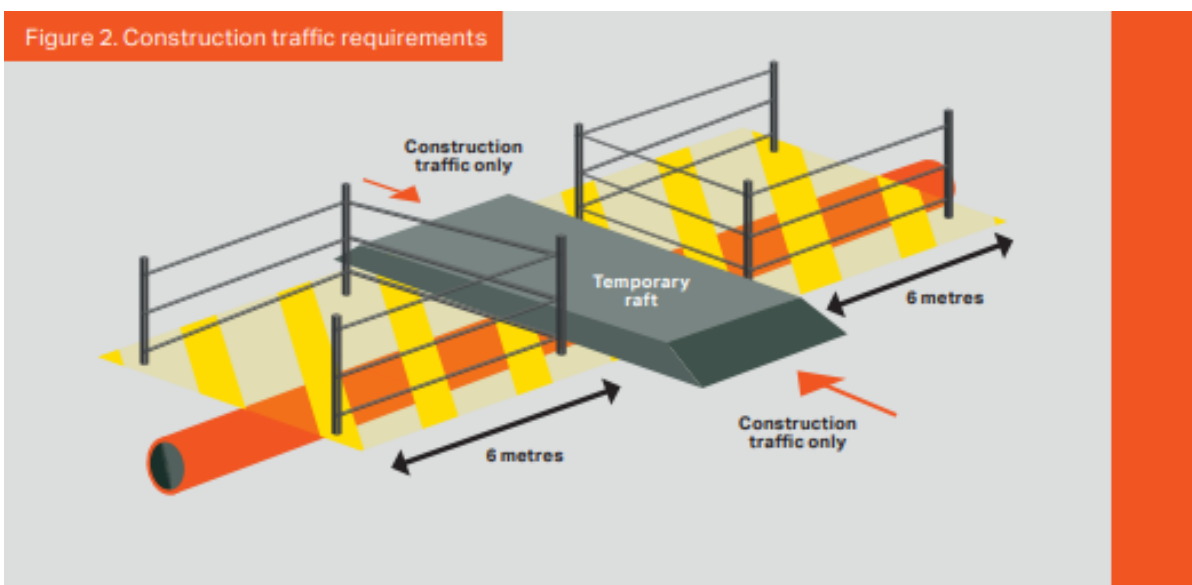
Where existing roads cannot be used, construction traffic should only cross Cadent assets with a minimum depth of cover of 750mm (post crossing construction) at specific locations, with notices directing traffic to the crossing points erected. All crossing points shall:

- 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/m<sup>2</sup> 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.

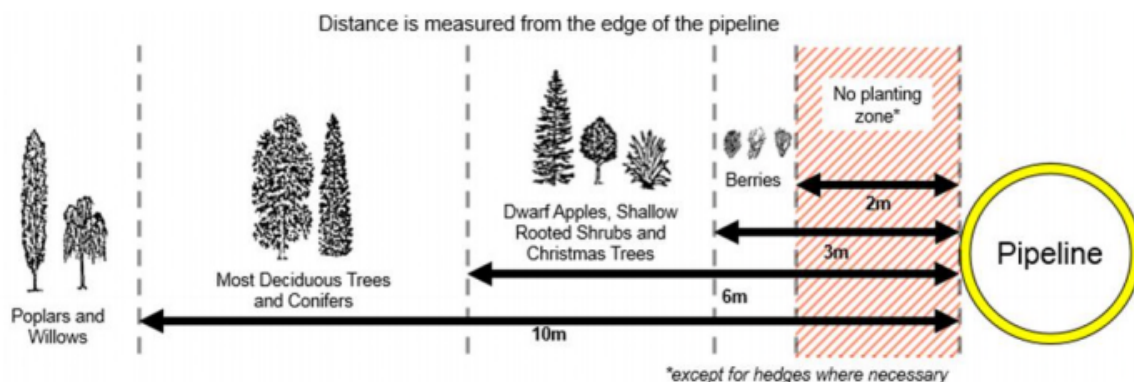
The following trees, and those of similar size which may be deciduous or evergreen, shall not be planted within 6 metres of an asset:

- 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](mailto: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
NRSWA	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



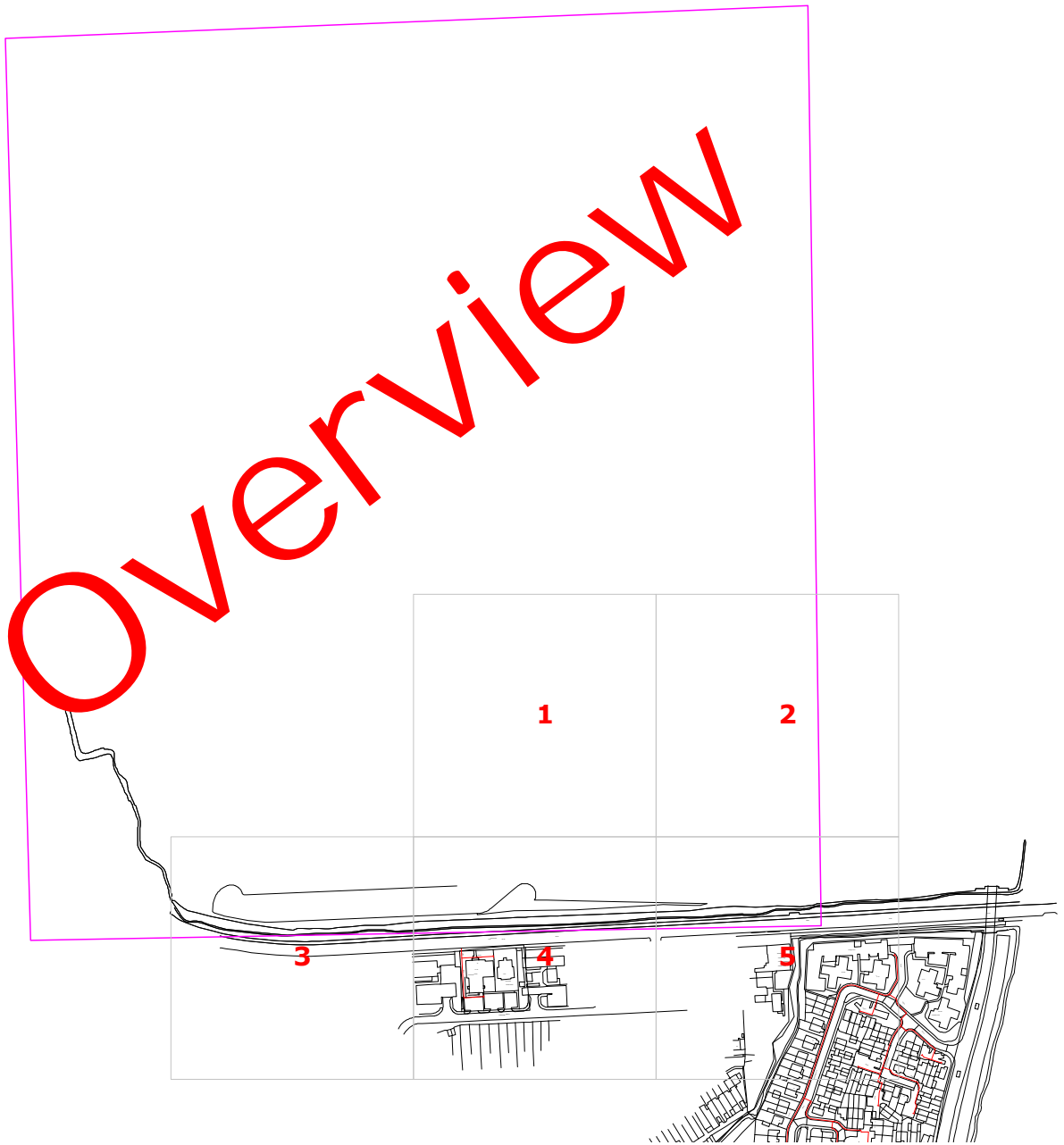


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# Gas

(ESP)





Date Requested: 20/04/2023




Requested by: Danny Simms

Job Reference: 29231323

Company: Premier Surveys

Your Scheme/Reference: 8856 Northfleet

**Key for Mains & Service Pipework**

	Existing LP mains or services operating up to 75 millibar gauge
	Existing MP mains or services operating between 75 millibar and 2 bar gauge
	Existing IP mains or services operating between 2 bar and 7 bar gauge

Whilst ESP Utilities Group Ltd (ESP) try to ensure the asset information we provide is accurate, the information is provided Without Prejudice and ESP accept no liability for claims arising from any inaccuracy, omissions or errors contained in this response. 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 ESP apparatus and all claims made against them by Third parties as a result of any interference or damage.



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ESP Utilities Group Ltd  
 Bluebird House  
 Mole Business Park  
 Leatherhead  
 Surrey  
 KT22 7BA  
 Phone: 01372 587500  
 Email: PlantResponses@espug.com

Dig Sites:

Area  Line   
 Approx scale on A4 paper: 1:1000  
 (excluding Overview map)

1

Date Requested: 20/04/2023

Requested by: Danny Simms

Job Reference: 29231323

Company: Premier Surveys

Your Scheme/Reference: 8856 Northfleet

**Key for Mains & Service Pipework**



Existing LP mains or services operating up to 75 millibar gauge



Existing MP mains or services operating between 75 millibar and 2 bar gauge



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**UTILITIES GROUP**

ESP Utilities Group Ltd  
Bluebird House  
Mole Business Park  
Leatherhead  
Surrey  
KT22 7BA  
Phone: 01372 587500  
Email: [PlantResponses@espug.com](mailto:PlantResponses@espug.com)

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**PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK IN THE VICINITY OF UNDERGROUND GAS PIPES**

**ADVICE TO SITE PERSONNEL**

**MANAGEMENT NOTE**

Please ensure that a copy of this note is read by your site management and to your site operatives.

Early consultation with ESP Utilities Group prior to excavation is recommended to obtain the location of plant and precautions to be taken when working nearby.

This Guidance Note should be read in conjunction with the Health and Safety Executive guidance HSG47 "Avoiding danger from underground services".

---

**Introduction**

Damage to ESP Utilities Group's plant can result in uncontrolled gas escapes which may be dangerous. In addition these occurrences can cause expense, disruption of work and inconvenience to the public.

Various materials are used for gas mains and services. Cast Iron, Ductile Iron, Steel and Plastic pipes are the most widely found. Modern Plastic pipes are either bright yellow or orange in colour.

Cast Iron and Ductile Iron water pipes are very similar in appearance to Cast Iron and Ductile Iron gas pipes and if any Cast Iron or Ductile Iron pipe is uncovered, it should be treated as a gas pipe. ESP Utilities Group do not own any metallic gas pipes but their gas network infrastructures may be connected to Cast Iron, Ductile Iron or Steel pipes owned by Distribution Network Operators.

The following general precautions apply to Intermediate Pressure (2-7barg MOP), Medium Pressure (75mbarg-2barg MOP), Low Pressure (up to 75mbarg MOP) and other gas mains and services likely to be encountered in general site works and are referred to within this document as '**pipes**'.

**Locating Gas Pipes**

It should be assumed when working in urban and residential areas that gas mains and services are likely to be present. On request, ESP Utilities Group will give approximate locations of pipes derived from their records. The records do not normally show the position of service pipes but their probable line can be deducted from the gas meter position. ESP Utilities Group's staff will be pleased to assist in the location of gas plant and provide advice on any precautions that may be required. The records and advice are given in good faith but cannot be guaranteed until hand excavation has taken place. Proprietary pipe and cable locators are available although generally these will not locate plastic pipes.

**Safe working Practices**

**To achieve safe working conditions adjacent to gas plant the following must be observed:**

Observe any specific request made by ESP Utilities Group's staff.

Gas pipes must be located by hand digging before mechanical excavation. Once a gas pipe has been located, mechanical excavation must proceed **with care**. A mechanical excavator must not in any case be used within 0.5 metre of a gas pipe and greater safety distances may be advised by ESP Utilities Group depending on the mains maximum operating pressure (MOP).

Where heavy plant may have to cross the line of a gas pipe during construction work, the number of crossing points should be kept to a minimum. Crossing points should be clearly indicated and crossings at other places along the line of the pipe should be prevented.

Where the pipe is not adequately protected by an existing road, crossing points should be suitably reinforced with sleepers, steel plates or a specially constructed reinforced concrete raft as necessary. ESP Utilities Group staff will advise on the type of reinforcement necessary.

No explosives should be used within 30 metres of any gas pipe without prior consultation with ESP Utilities Group.

**ESP Utilities Group must be consulted prior to carrying out excavation work within 10 metres of any above ground gas installation.**

Where it is proposed to carry out piling or boring within 15 metres of any gas pipe, ESP Utilities Group should be consulted prior to the commencement of the works.

Access to gas plant must be maintained at all times during on site works.

### Proximity of Other Plant

A minimum clearance of 300 millimetres (mm) should be allowed between any plant being installed and an existing gas main to facilitate repair, whether the adjacent plant be parallel to or crossing the gas pipe. No apparatus should be laid over and along the line of a gas pipe irrespective of clearance.

No manhole or chambers shall be built over or around a gas pipe and no work should be carried out which results in a reduction of cover or protection over a pipe, without consultation with ESP Utilities Group.

### Support and Backfill

Where excavation of trenches adjacent to any pipe affects its support, the pipe must be supported to the satisfaction of ESP Utilities Group and must not be used as an anchor or support in any way. In some cases, it may be necessary to divert the gas pipe before work commences.

Where a trench is excavated crossing or parallel to the line of the gas pipe, the backfill should be adequately compacted, particularly beneath the pipe, to prevent any settlement which could subsequently cause damage to the pipe.

In special cases it may be necessary to provide permanent support to the gas pipe, before backfilling and reinstatement is carried out. Backfill material adjacent to gas plant must be selected fine material or sand, containing no stones, bricks or lumps of concrete, etc., placed to a minimum depth of 150mm around the pipes and well compacted by hand. No power compaction should take place until 300mm of selected fine fill has been suitably compacted.

If the road construction is in close proximity to the top of the gas pipe, a "cushion" of selected fine material such as sand must be used to prevent the traffic shock being transmitted to the gas pipe. The road construction depth must not be reduced without permission from the local Highway Authority.

No concrete or other hard material must be placed or left under or adjacent to any Cast Iron pipe as this may cause fracture of the pipe at a later date.

Concrete backfill should not be used closer than 300 mm to the pipe.

### Damage to Coating

Where a gas pipe is coated with special wrapping and this is damaged, even to a minor extent ESP Utilities Group must be notified so that repairs can be made to prevent future corrosion and subsequent leakage.

### Welding or "Hot Works"

When welding or other "hot works" involving naked flames are to be carried out in close proximity to gas plant and the presence of gas is suspected, ESP Utilities Group must be contacted before work commences to check the atmosphere. Even when a gas free atmosphere exists care must be taken when carrying out hot works in close proximity to gas plant in order to ensure that no damage occurs.

Particular care must be taken to avoid damage by heat or naked flame to plastic gas pipes or to the protective coating on other gas pipes.

### Leakage from Gas Mains or Services

If damage or leakage is caused or an escape of gas is smelt or suspected the following action should be taken at once:

- ❖ Remove all personnel from the immediate vicinity of the escape;
- ❖ Contact the National Gas Emergency Service on: **0800 111 999**;
- ❖ Prevent any approach by the public, prohibit smoking, extinguish all naked flames or other source of ignition for at least 15 metres from the leakage;
- ❖ Assist gas personnel, Police or Fire Service as requested.

**REMEMBER - IF IN DOUBT; SEEK ADVICE FROM ESP UTILITIES GROUP.**

**ESP Utilities Group can be contacted at:**

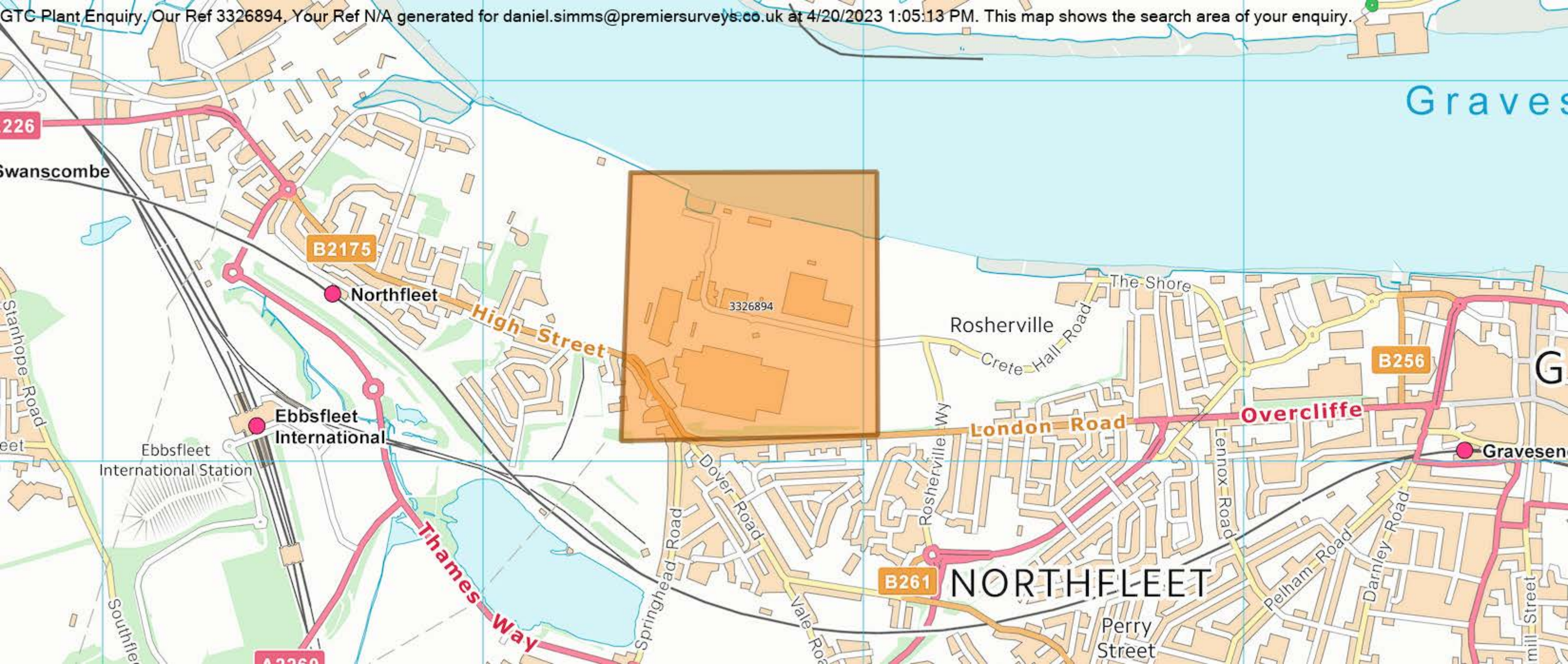
**Office Address:** Bluebird House, Mole Business Park, Leatherhead, Surrey, KT22 7BA

**Office Tel:** 01372 587 500; **Fax:** 01372 377 996

# GTC

(Electricity and gas)

 **gtc**...leading utility networks



Gravesend

226

Swanscombe

B2175

Northfleet

High Street

3326894

Rosherville

Crete Hall Road

The Shore

B256

G

International  
Ebbsfleet

International Station  
Ebbsfleet

Overcliffe

Gravesend

Thames Way

B261

NORTHFLEET

Perry Street

Pelham Road

Darnley Road

mill Street

Southfield

A3260

Springhead Road

Dover Road

Vale Road

Rosherville Wy

Lennox Road

**From:** [plantenquiryservice@gtc-uk.co.uk](mailto:plantenquiryservice@gtc-uk.co.uk)  
**To:** [Daniel Simms](#)  
**Subject:** GTC Plant Enquiry - Ref- 3326894  
**Date:** 20 April 2023 13:05:40  
**Attachments:** [3326894.png](#)

---

## **GTC Apparatus Not Found In Search Area**

**Our Plant Enquiry Service Ref: 3326894**

**Your Enquiry Ref: N/A**

Dear Danny,

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. GTC can confirm that we have no apparatus in the vicinity but please note that other asset owners may have and ensure all utility owners have been consulted. For your records, the search area is shown in the attached map.

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.

**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](mailto: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

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Thank you

# Fibre Optic

(City Fibre)



City  
Fibre



bitmap\_layout select\_raster

### LEGEND

- EXISTING PLANT
- EXISTING PLANT

bitmap\_layout select\_raster

<p>Head Office CityFibre Holdings Ltd 15 Bedford Street, London WC2E 9HE Tel: 0845 293 0774 Web: www.cityfibre.com</p>	<p>Asset Office CityFibre Holdings Ltd, Rutherford House, Birchwood, Warrington, WA3 6ZH Email: asset.team@cityfibre.com</p>
--	--

**Disclaimer:**

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Project  
Plant Enquiry

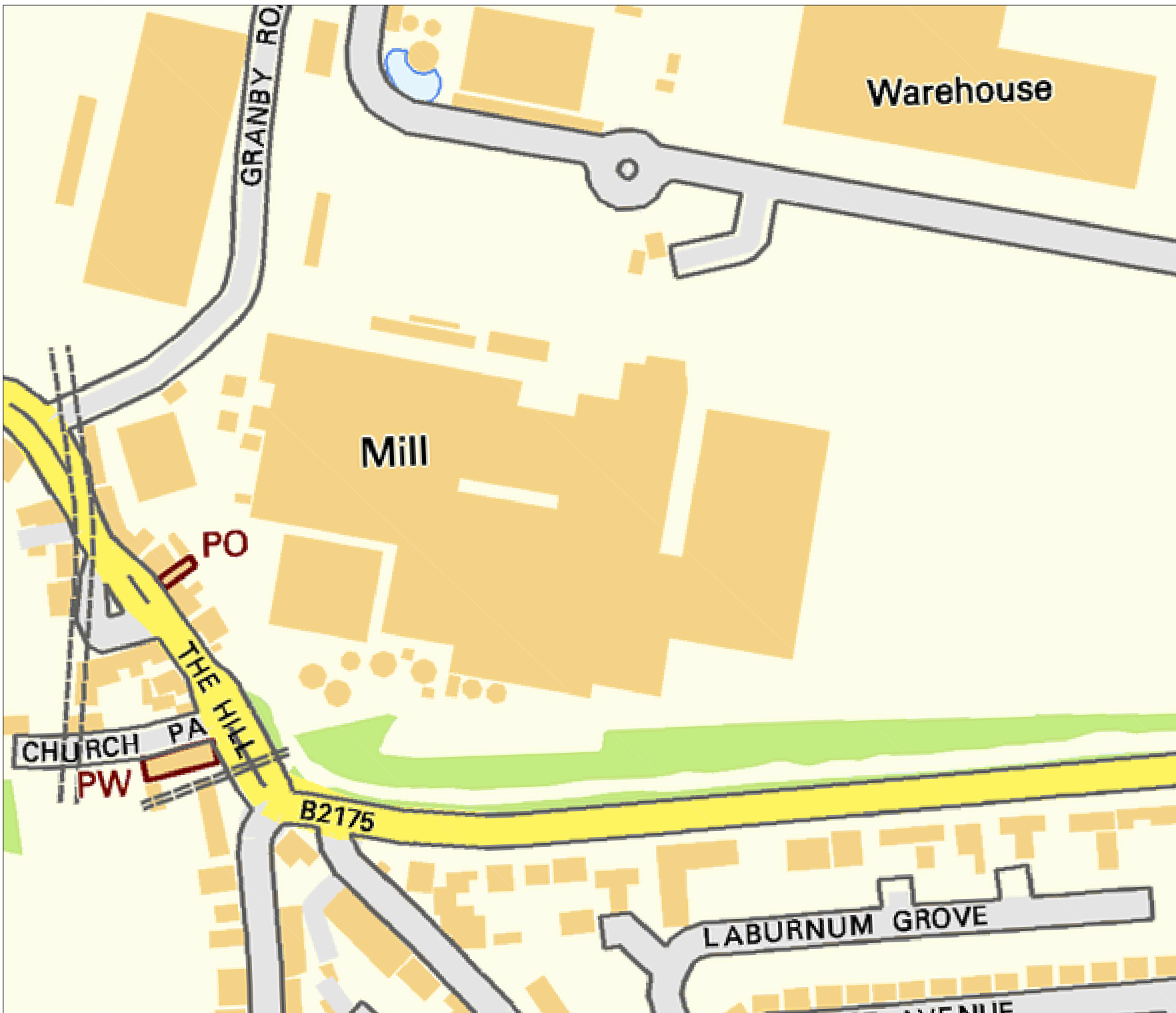
Drawing  
Existing Plant

Drawn by:  
smallworld Date: 20/04/2023

Drawing No. CFH_EP_000001	Revision 001
------------------------------	-----------------

Scale: 1:2500 A4





bitmap\_layout select\_raster

### LEGEND

- EXISTING PLANT
- EXISTING PLANT

bitmap\_layout select\_raster

<p>Head Office CityFibre Holdings Ltd 15 Bedford Street, London, WC2E 9HE</p> <p>Tel: 0845 293 0774 Web: www.cityfibre.com</p>	<p>Asset Office CityFibre Holdings Ltd, Rutherford House, Birchwood, Warrington, WA3 6ZH</p> <p>Email: asset.team@cityfibre.com</p>
--	---

**Disclaimer:**

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Project  
Plant Enquiry

Drawing  
Existing Plant

Drawn by:  
smallworld Date: 20/04/2023

Drawing No. Revision  
CFH\_EP\_000001 001

Scale: 1:2500 A4

# Water

(EQUANS)



**From:** [nrswa.uk@equans.com](mailto:nrswa.uk@equans.com)  
**To:** [Daniel Simms](mailto:Daniel.Simms)  
**Subject:** REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281  
**Date:** 21 April 2023 10:50:35  
**Attachments:** [image002.png](#)

---

*To whom it may concern*

*Regarding your request for details of existing services in the specified area(s):*

**POSTCODE: DA11 9AD**

*We can confirm that, based on the details provided to us, we have no buried plant or equipment in the identified area(s).*



UK & IRELAND

---

**From:** Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)>  
**Sent:** 20 April 2023 12:10  
**To:** Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)>  
**Subject:** [External] Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

Dear Sir/Madam

Re: - Underground Apparatus / Plant-Request for Plans only

Site Ref. 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

To enable the study of background information for belowground mapping survey works and initial design considerations at the above site location, please provide plan(s) indicating the position and type of your apparatus in the locality of the site detailed above.

The site location is as per the provided OS Coordinates and highlighted on the attached plan. If you have no apparatus in the area, please advise.

Your earliest response would be greatly appreciated.

Best Regards

Daniel Simms  
Utility Survey Manager  
For Premier Surveys Limited  
[daniel.simms@premiersurveys.co.uk](mailto:daniel.simms@premiersurveys.co.uk)  
[www.premiersurveys.co.uk](http://www.premiersurveys.co.uk)  
Tel: 0115 9622876  
Mob: 07564 812240  
Midlands Office: 9-11 Lowater Street, Carlton, Nottingham, NG4 1JJ  
London Office: Unit 3, Ivory Wharf, Elephant Lane, London, SE16 4JD



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# COMMS

(Vodafone)



**vodafone**



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### Legend

- Access Chamber.Location Active Footway Chamber
- Underground Route.Route Active - Owned
- Underground Route.Route Active - Leased



Vodafone Limited (No01471587) registered office is at Vodafone House, The Connection, Newbury, Berkshire, RG142FN

Plot Date : 24/04/2023      Scale : 1:1250

This plan shows apparatus owned by members of the Vodafone Group of companies (including legacy telecommunication companies currently within the group)

Information with regard to such apparatus should always be obtained from Vodafone or its appointed agents.



# COMMS

(Colt)



**From:** [Plantenquiries - CA Telecom](#)  
**To:** [Daniel Simms](#)  
**Subject:** RE: Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281  
**Date:** 25 April 2023 09:49:41  
**Attachments:** [image002.png](#)  
[image003.png](#)

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**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



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**From:** Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)>  
**Sent:** 20 April 2023 12:10  
**To:** Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)>  
**Subject:** Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

Dear Sir/Madam

Re: - Underground Apparatus / Plant-Request for Plans only  
Site Ref. 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

To enable the study of background information for belowground mapping survey works and initial design considerations at the above site location, please provide plan(s) indicating the position and type of your apparatus in the locality of the site detailed above.

The site location is as per the provided OS Coordinates and highlighted on the attached plan. If you have no apparatus in the area, please advise.

Your earliest response would be greatly appreciated.

Best Regards

Daniel Simms  
Utility Survey Manager  
For Premier Surveys Limited  
[daniel.simms@premiersurveys.co.uk](mailto:daniel.simms@premiersurveys.co.uk)  
[www.premiersurveys.co.uk](http://www.premiersurveys.co.uk)  
Tel: 0115 9622876  
Mob: 07564 812240  
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---

# COMMS

(Lumen)

LUMEN®



**From:** [Plantenquiries](#)  
**To:** [Daniel Simms](#)  
**Subject:** RE: E04-23-4310 Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281  
**Date:** 24 April 2023 13:25:12  
**Attachments:** [image001.png](#)  
[image006.png](#)  
[image599145.png](#)  
[image861201.png](#)  
[image250440.png](#)  
[image313011.png](#)  
[image627687.png](#)

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.

OCU 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  
OCU  
Borehamwood Ind. Park  
Rowley Lane  
Borehamwood  
WD6 5PZ

Office: +44 (0)208 731 4613  
Fax: +44 (0)208 731 4601  
Email: [plantenquiries@ocugroup.com](mailto:plantenquiries@ocugroup.com)  
Web: <http://www.ocugroup.com>



Plantenquiries  
OCU  
[plantenquiries@ocugroup.com](mailto:plantenquiries@ocugroup.com)  
Chat with me on Teams



[in](#) [yt](#) [www.ocugroup.com](http://www.ocugroup.com)

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Reg. No.: 09307607 Head Office: Artemis House, Greek Street, Stockport, SK3 8AB VAT No.: 426 430 711

**From:** Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)>  
**Sent:** 20 April 2023 12:10  
**To:** Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)>  
**Subject:** Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

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Dear Sir/Madam

Re: - Underground Apparatus / Plant-Request for Plans only  
Site Ref. 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

To enable the study of background information for belowground mapping survey works and initial design considerations at the above site location, please provide plan(s) indicating the position and type of your apparatus in the locality of the site detailed above.

The site location is as per the provided OS Coordinates and highlighted on the attached plan. If you have no apparatus in the area, please advise.

Your earliest response would be greatly appreciated.

Best Regards

Daniel Simms  
Utility Survey Manager  
For Premier Surveys Limited  
[daniel.simms@premiersurveys.co.uk](mailto:daniel.simms@premiersurveys.co.uk)  
[www.premiersurveys.co.uk](http://www.premiersurveys.co.uk)  
Tel: 0115 9622876  
Mob: 07564 812240  
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---

# COMMS

(MBNL)

**MBNL**

**T-Mobile**



**From:** [MBNLplantenquiries](#)  
**To:** [Daniel Simms](#)  
**Subject:** RE: Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281  
**Date:** 20 April 2023 15:22:31

Confidential - External

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.

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.

Thank you,

Kind regards,

MBNL SHQE Team

**Turner & Townsend Advisory**

t: 0121 262 3663 | [www.turnerandtowntsend.com](http://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:** Daniel Simms <Daniel.Simms@premiersurveys.co.uk>

**Sent:** 20 April 2023 12:10

**To:** Daniel Simms <Daniel.Simms@premiersurveys.co.uk>

**Subject:** Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

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Dear Sir/Madam

Re: - Underground Apparatus / Plant-Request for Plans only

Site Ref. 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

To enable the study of background information for belowground mapping survey works and initial design considerations at the above site location, please provide plan(s) indicating the position and type of your apparatus in the locality of the site detailed above.

The site location is as per the provided OS Coordinates and highlighted on the attached plan. If you have no apparatus in the area, please advise.

Your earliest response would be greatly appreciated.

Best Regards

Daniel Simms

Utility Survey Manager

For Premier Surveys Limited

[daniel.simms@premiersurveys.co.uk](mailto:daniel.simms@premiersurveys.co.uk)

[www.premiersurveys.co.uk](http://www.premiersurveys.co.uk)

Tel: 0115 9622876

Mob: 07564 812240

Midlands Office: 9-11 Lowater Street, Carlton, Nottingham, NG4 1JJ

London Office: Unit 3, Ivory Wharf, Elephant Lane, London, SE16 4JD



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Turner & Townsend Limited

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# COMMS

(Sky)



**From:** [NRSWA](#)  
**To:** [Daniel Simms](#)  
**Subject:** Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281  
**Date:** 20 April 2023 16:05:43  
**Attachments:** [image003.png](#)  
[image001.png](#)

---



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](mailto:nrswa@sky.uk).

Regards



NRSWA Department  
Sky UK - Technology - Operations

 [nrswa@sky.uk](mailto:nrswa@sky.uk)  +44 2070323234

---

**From:** Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)>  
**Sent:** 20 April 2023 12:10  
**To:** Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)>  
**Subject:** [EXTERNAL] Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

Dear Sir/Madam

Re: - Underground Apparatus / Plant-Request for Plans only

Site Ref. 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

To enable the study of background information for belowground mapping survey works and initial design considerations at the above site location, please provide plan(s) indicating the position and type of your apparatus in the locality of the site detailed above.

The site location is as per the provided OS Coordinates and highlighted on the attached plan. If you have no apparatus in the area, please advise.

Your earliest response would be greatly appreciated.

Best Regards

Daniel Simms  
Utility Survey Manager  
For Premier Surveys Limited  
[daniel.simms@premiersurveys.co.uk](mailto:daniel.simms@premiersurveys.co.uk)  
[www.premiersurveys.co.uk](http://www.premiersurveys.co.uk)  
Tel: 0115 9622876  
Mob: 07564 812240  
Midlands Office: 9-11 Lowater Street, Carlton, Nottingham, NG4 1JJ  
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[Design 1](#)



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# COMMS

(Sota)





**From:** [SOTA Plant Enquiries](#)  
**To:** [Daniel Simms](#)  
**Subject:** RE: S04-23-1670 Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281  
**Date:** 23 April 2023 22:13:51  
**Attachments:** [image001.png](#)  
[image007.png](#)  
[image429578.png](#)  
[image513517.png](#)  
[image096450.png](#)  
[image845163.png](#)  
[image396014.png](#)

---



Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that SOTA do not have any apparatus within the immediate proximity of your proposed works.

If you require any further information, please do not hesitate to contact us.

**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  
OCU  
Borehamwood Ind. Park  
Rowley Lane  
Borehamwood  
WD6 5PZ

Office: +44 (0)208 731 4613  
Fax: +44 (0)208 731 4601  
Email: [plantenquiries@ocugroup.com](mailto:plantenquiries@ocugroup.com)  
Web: <http://www.ocugroup.com>



SOTA Plant Enquiries  
OCU

[sota.plantenquiries@ocugroup.com](mailto:sota.plantenquiries@ocugroup.com)

[Chat with me on Teams](#)



[www.ocugroup.com](http://www.ocugroup.com)

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Reg. No.: 09307607 Head Office: Artemis House, Greek Street, Stockport, SK3 8AB VAT No.: 426 430 711

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**From:** Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)>  
**Sent:** 20 April 2023 12:10  
**To:** Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)>  
**Subject:** Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

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Dear Sir/Madam

Re: - Underground Apparatus / Plant-Request for Plans only

Site Ref. 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

To enable the study of background information for belowground mapping survey works and initial design considerations at the above site location, please provide plan(s) indicating the position and type of your apparatus in the locality of the site detailed above.

The site location is as per the provided OS Coordinates and highlighted on the attached plan. If you have no apparatus in the area, please advise.

Your earliest response would be greatly appreciated.

Best Regards

Daniel Simms  
Utility Survey Manager  
For Premier Surveys Limited  
[daniel.simms@premiersurveys.co.uk](mailto:daniel.simms@premiersurveys.co.uk)  
[www.premiersurveys.co.uk](http://www.premiersurveys.co.uk)  
Tel: 0115 9622876  
Mob: 07564 812240  
Midlands Office: 9-11 Lowater Street, Carlton, Nottingham, NG4 1JJ  
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---

# Power Networks

(Utility Assets)



**From:** [assetrecords@utilityassets.co.uk](mailto:assetrecords@utilityassets.co.uk)  
**To:** [Daniel Simms](#)  
**Subject:** Re: Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281  
**Date:** 20 April 2023 12:10:36

---

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 you have sent an asset records enquiry to [enquiries@utilityassets.co.uk](mailto:enquiries@utilityassets.co.uk) please change to [assetrecords@utilityassets.co.uk](mailto:assetrecords@utilityassets.co.uk)

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](mailto:asset.manager@utilityassets.co.uk) quoting a site reference number.

Asset Manager - Utility Assets Ltd

# COMMS

(Verizon)

**verizon**✓

**From:** [UK OSP-Team](#)  
**To:** [Daniel Simms](#); [UK OSP-Team](#)  
**Subject:** Re: Request for Plans only-REF 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281  
**Date:** 21 April 2023 09:56:41

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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 (GB) Email [osp-team@uk.verizon.com](mailto:osp-team@uk.verizon.com)

On Thu, 20 Apr 2023 at 12:10, Daniel Simms <[Daniel.Simms@premiersurveys.co.uk](mailto:Daniel.Simms@premiersurveys.co.uk)> wrote:

Dear Sir/Madam

Re: - Underground Apparatus / Plant-Request for Plans only

Site Ref. 8856 Kimberly Clark, Northfleet, Gravesend DA11 9AD - NGR E562656 N174281

To enable the study of background information for belowground mapping survey works and initial design considerations at the above site location, please provide plan(s) indicating the position and type of your apparatus in the locality of the site detailed above.

The site location is as per the provided OS Coordinates and highlighted on the attached plan. If you have no apparatus in the area, please advise.

Your earliest response would be greatly appreciated.

Best Regards

Daniel Simms

Utility Survey Manager  
For Premier Surveys Limited  
[daniel.simms@premiersurveys.co.uk](mailto:daniel.simms@premiersurveys.co.uk)

[www.premiersurveys.co.uk](http://www.premiersurveys.co.uk)

Tel: 0115 9622876

Mob: 07564 812240

Midlands Office: 9-11 Lowater Street, Carlton, Nottingham, NG4 1JJ

London Office: Unit 3, Ivory Wharf, Elephant Lane, London, SE16 4JD



**High-definition Laser Scanning - Measured Building Surveys - GIS Data Capture - BIM - GPS - Topographical Mapping & Site Surveys - Underground Utility Surveys - 3D Modelling**

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Prepared: DS	Date: 17.05.2023
Checked: DS	Date: 17.05.2023
Approved: AF	Date: 17.05.2023