Apogee Property
& Utility Consultants

**Report Type:** Full Utility Search

**Apogee Job Number:** 421487

**Client Site Name:** Claridge Road & Inskip Road

**Client Job Number:** 170/20

**Report Speed:** 20 (Working) Day

**Percentage Complete:** 100%

**No. Utilities Affected:** 8

LASER SURVEYS.

C2 Stats Plans Responses Summary

Apogee Job Number: 421487
Client Site Name: Claridge Road & Inskip Road
Client Job Number: 170/20
Percentage Complete: 100%

| Utility Name | Utility Type | Affected | Not Affected | No Response Received | Comments |
|---|---|---|---|---|---|
| UKPN | Electric | 04/09/2020 | | | |
| Utility Assets | Electric | | 29/09/2020 | | |
| Cadent | Gas | 04/09/2020 | | | |
| Engie | Multi | | 04/09/2020 | | |
| GTC | Multi | 04/09/2020 | | | |
| Last Mile (Energetics) | Multi | | 07/09/2020 | | |
| E&S Water | Water | 18/09/2020 | | | |
| Thames Water | Sewerage | 04/09/2020 | | | |
| BT | Telecoms | 04/09/2020 | | | |
| Vodafone (C&W, Energis, Thus) | Telecoms | | 07/09/2020 | | |
| Virgin Media | Telecoms | 08/09/2020 | | | |
| Cityfibre | Telecoms | | 04/09/2020 | | |
| Colt (CA Telecom) | Telecoms | | 10/09/2020 | | |
| EUNetworks | Telecoms | | 09/09/2020 | | |
| Instalcom Centurylink | Telecoms | | 09/09/2020 | | |
| Instalcom KPN | Telecoms | | 10/09/2020 | | |
| Kcom | Telecoms | | 06/09/2020 | | |
| Sky | Telecoms | | 04/09/2020 | | |
| Sota | Telecoms | | 10/09/2020 | | |
| Telent | Telecoms | | 14/09/2020 | | |
| Verizon | Telecoms | | 07/09/2020 | | |
| Linesearch | Linesearch | 04/09/2020 | | | |
| Mast Data | Telecoms | 04/09/2020 | | | T Mobile Affected |
| Trafficmaster | Infrastructure | | 07/09/2020 | | |
| London Underground | Infrastructure | | 07/09/2020 | | |
| London Overground | Infrastructure | | 04/09/2020 | | |
| PO/Tun | Infrastructure | | 04/09/2020 | | |
| Crossrail | Infrastructure | | 04/09/2020 | | |
| Network Rail | Infrastructure | | 04/09/2020 | | |
| Coal Authority | Mining | | 04/09/2020 | | |

See end of report for acronyms key, basic risk assumptions and further information on how to interpret and use the information in this report.




| | |
|---|---|
| Job No: | 421487 |
| Approved by: | Jeremy Haigh |
| Date of First Issue: | 21/09/2020 |
| Signature: | |

| Date | Version | Created by | Description of change |
|---|---|---|---|
| 21/09/2020 | 0.1 | David Haigh | First & Final Issue |

Registered Office:
Newington House
237 Southwark Bridge Road
London SE1 6NP

Registered in England and Wales No: 3870728

Company:
UK Power Networks (Operations)
Limited

Our Ref: 19839706 Your Ref: 421487

Friday, 04 September 2020

David Haigh
Blount House Hall Court Hall Park Way
Telford
Shropshire
TF3 4NQ

Dear David Haigh

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

Registered Office:
Newington House
237 Southwark Bridge Road
London SE1 6NP

Registered in England and Wales No: 3870728

Company:
UK Power Networks (Operations) Limited

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

Registered Office:
Newington House
237 Southwark Bridge Road
London SE1 6NP

Registered in England and Wales No: 3870728

Company:
UK Power Networks (Operations) Limited

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.

# Network Records NetMAP Symbols Booklet - East of England

This symbol booklet is intended as a general guide only - some local variations of these symbols may be found.

**Version 1.2**

Released October 2010

Always check with your local Network Records office or the UK Power Networks server to ensure that you are using the most up to date copy of this booklet - Tel: 08000 565866.



# Index:-


| Page no: | | Contents: |
|---|---|---|
| 1 | ..... | Guidance notes. |
| 2 | ..... | The area covered by this guide. |
| 3 | 1:500 view | |
| | ..... | Scenery. |
| 4 | ..... | Scenery (UK Power Networks use only). |
| 7 | ..... | Primary distribution cables (EHV). |
| 8 | ..... | Secondary distribution cables (HV/LV). |
| 9 | ..... | Service cables/terminations. |
| 10 | ..... | Cable ducts. |
| 11 | ..... | EHV/HV/LV sites. |
| 13 | ..... | Mains joints. |
| 14 | ..... | Service joints. |
| 15 | ..... | Cross sections. |
| 17 | ..... | Common abbreviations/terminology (all views). |
| 19 | 1:2500 (LV) & 1:10000 (HV) network views (UK Power Networks use only). | |
| | ..... | General. |
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| 23 | LV network diagram view (UK Power Networks use only). | |
| | ..... | Overhead lines. |
| 24 | ..... | Underground cables. |
| 25 | ..... | Joints. |
| 26 | ..... | Substations/pole transformers. |

## Guidance notes.

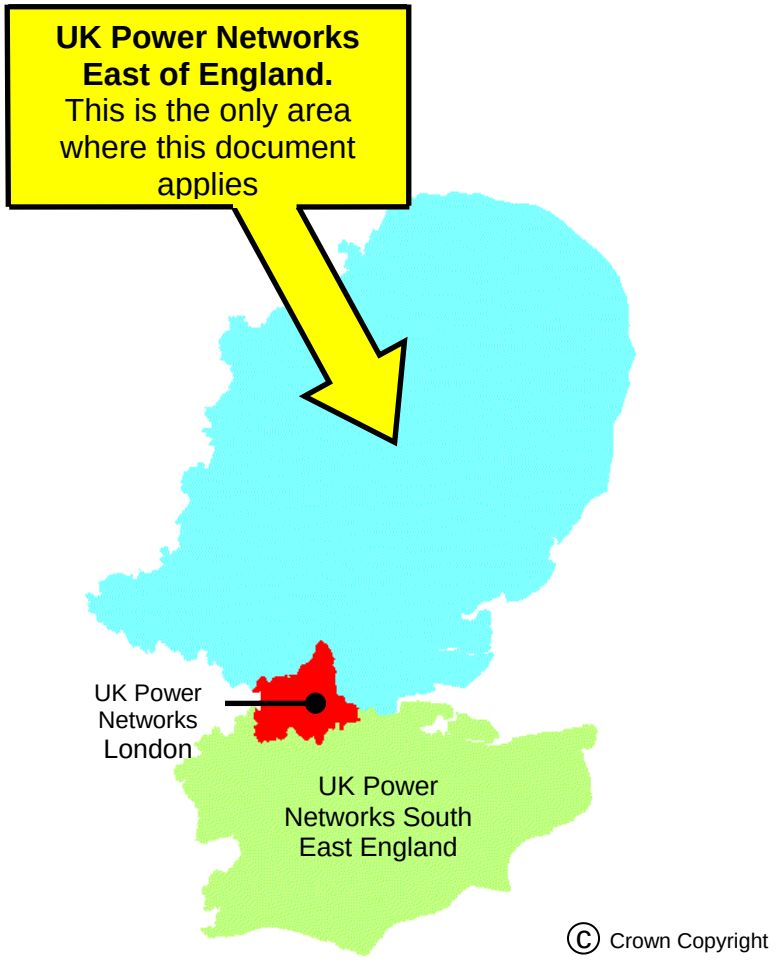
**Important notice:**
If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance
**Tel: 08000 565866.**

- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc.
- All cables must be treated as live, unless proven otherwise by an authorised UK Power Networks representative.
- Third party cables are not usually shown. In cases of doubt, please telephone 08000 565866.
- When two or more maps are supplied for the same area, the maps must be read in conjunction with each other and with this symbol document.
- All LV cables are assumed to be 4 core, and all HV cables assumed to be 3 core unless otherwise stated.

**Plan Provision Team**
**Fore Hamlet**
**Ipswich**
**Suffolk IP3 8AA**
**Tel: 08000 565866**



# The area covered by this guide:




© Crown Copyright

# 1:500 view - underground network

## Scenery

| NetMAP system | Scanned image | Description |
|---|---|---|
| | | 100 metre Ordnance Survey grid line (on O/S based maps only.) |
| | | Property fence line |
| | | Building line |
| | | Kerb line |
| | | Electrical Boundary |



## Scenery - for UK Power Networks use only - boxed in red

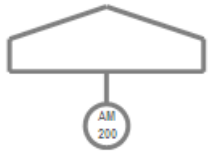
| NetMAP system | Scanned image | Description |
|---|---|---|
|  Inset Network – Contact xxxx IDNO for further information | Not applicable | Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Proposed Cross Rail route (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | High pressure pipelines in the general vicinity (only visible to UK Power Networks and their immediate contractors) |

Note: Pipelines are only viewable on NetMAP by UK Power Networks staff and their immediate contractors. Do not carry out any excavation without consent from the relevant agency - legally protected high pressure petroleum products pipeline route in the general vicinity - consult www.linewatch.co.uk for contacts and guidance. Pipeline contact numbers can also be found on the intranet – out of hours, contact our Control Centre.

| | | |
|---|---|---|
| | Not applicable | Water - surface water (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors) |

**section continued on next page**

## Scenery for UK Power Networks use only - boxed in red

| NetMAP system | Scanned image | Description |
|---|---|---|
|  | Not applicable | Historical - Scheduled Monuments<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Historical - Parks and Gardens<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Historical - Areas of Archaeological Potential (AAP)<br>(only visible to E UK Power Networks and their Immediate contractors) |
|  | Not applicable | Nature - Ramsar Wetlands of International Importance<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - Special Area of Conservation (SAC)<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - Special Protected Area (SPA)<br>(only visible to UK Power Networks and their immediate contractors) |
|  |  | Nature - Site of Special and Scientific Interest (SSSI)<br>(only visible to UK Power Networks and their immediate contractors) |

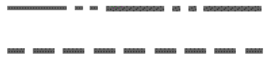
**section continued on next page**



## Scenery for UK Power Networks use only - boxed in red

| NetMAP system | Scanned image | Description |
|---|---|---|
|  | Not applicable | Nature - Local Nature Reserve<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - National Nature Reserve<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - Area of Outstanding Natural Beauty (AONB)<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Nature - National Park<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Fluid filled cables - very high sensitivity<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Fluid filled cables - high sensitivity<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Fluid filled cables - medium sensitivity<br>(only visible to UK Power Networks and their immediate contractors) |
|  | Not applicable | Fluid filled cables - low sensitivity<br>(only visible to UK Power Networks and their immediate contractors) |

## Primary distribution cables (1:500 view)

| NetMAP system | Scanned image | Description |
|---|---|---|
|  |  | Over 33kV and up to 132kV |
|  |  | Over 11kV and up to 33kV |

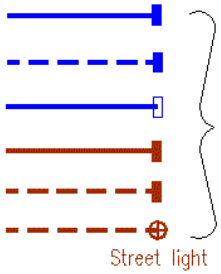
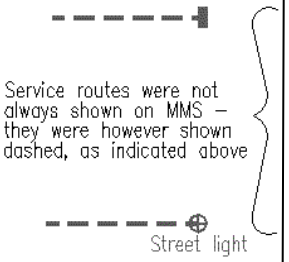


## Secondary distribution cables (1:500 view)

| NetMAP system | Scanned image | Description |
|---|---|---|
|  |  | Over 230/400V and up to 11kV (HV) cable route |
|  |  | 230/400V (LV) cable route |
|  |  (Only shown this way if independent from HV cable route) | Pilot cable route |

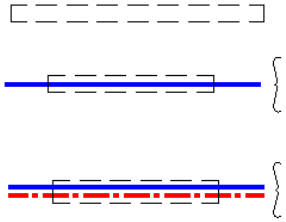
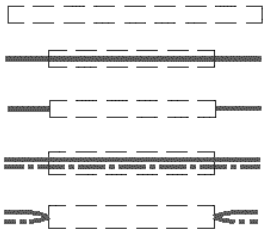
Abandoned cables are shown and labelled as such when applicable

## Service cables and terminations (1:500 view)

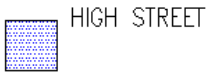
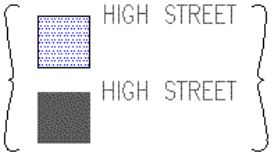
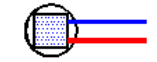
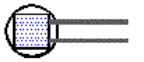
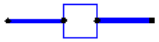
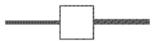
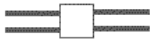
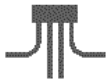
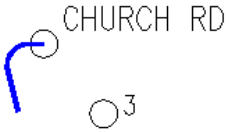
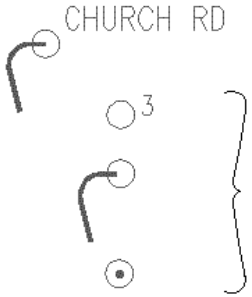
| NetMAP system | Scanned image | Description |
|---|---|---|
|  |  | 3 phase service with termination<br>3 phase service with termination (unknown route)<br>3 phase service with multi-head termination<br>Single phase service with termination<br>Single phase service with termination (route unknown)<br>Street lighting cable and termination |



## Cable ducts (1:500 view)

| NetMAP system | Scanned image | Description |
|---|---|---|
|  |  | Empty duct<br>Cable(s) in duct(s)<br>Cable(s) in duct(s) (on some raster maps)<br>Multiple cables in ducts<br>Multiple cables in ducts (on some raster maps) |

## EHV, HV and LV sites (1:500 view)

| NetMAP system | Scanned image | Description |
|---|---|---|
|  |  | Primary substation |
|  |  | Secondary substation |
|  |  | Pad mounted substation |
|  |  | Link box – 2 way |
|  |  | Link box – 4 way<br>(6 way etc shown similarly) |
|  |  | Feeder pillar – 4 way<br>(6 way etc shown similarly) |
|  |  | Pole transformer<br>Poles on underground records |
|  |  | H pole, any voltage |
|  |  | Service turret (solid type) |

**section continued on next page**



## EHV, HV and LV sites continued (1:500 view)

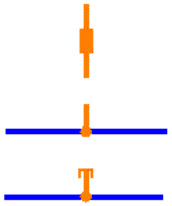
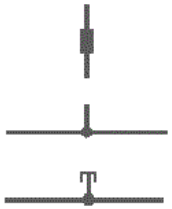
| NetMAP system | Scanned image | Description |
|---|---|---|
| No NetMAP equivalent<br><br>CAUTION<br>Missing Information | <br>No equivalent | Service turret (with link facility on LV main)<br>Missing data in or near this location |
|  | Not applicable | Contaminated land reference |

## Mains joints (1:500 view)

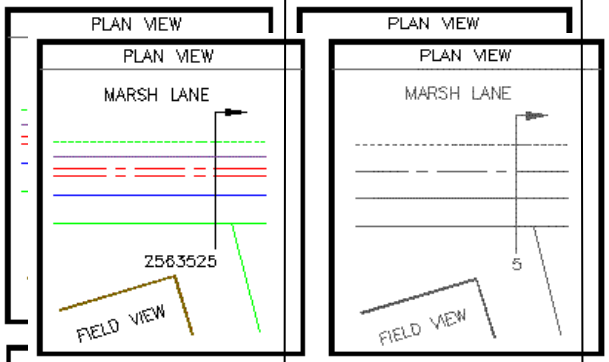
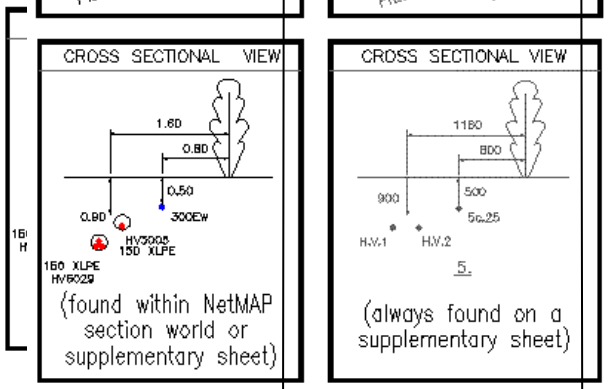
| NetMAP system | Scanned image | Description |
|---|---|---|
| (voltage indicated by colour/line-style) | | |
|  |  | Straight joint |
|  |  | Crutch joint |
|  |  | Straight crutch joint |
|  |  | Pot end |
|  |  | Pot end – on one of several cables – single line representation |
|  |  | Branch joint/pot end – (humpty back joint, back to back joint, bull nose joint or stub joint |
|  |  | Sleeve repair or repair joint |
|  |  | Cut end |
|  |  | Capped end |
|  |  | Tee joint |
|  | NetMAP/vector only | Sicame joint box |



## Service joints (1:500 view)

| NetMAP system | Scanned image | Description |
|---|---|---|
| Please note that 3 phase services are shown blue, and single phase services are shown brown | | |
|  |  | Straight joint |
| | | Service joint to main |
| | | Pot end |

## Cross sections (1:500 view)

| NetMAP system | Scanned image | Description |
|---|---|---|
|  |  | Single line representational plan view with NetMAP equivalent (please note the use of seperate line for each voltage on the raster/MMS data) |
|  |  | Cross sectional view of above |
|  |  | Section arrow with old/new numbering system – points in direction section is viewed |
|  |  | LV/3 phase service cable |
|  |  | Single phase service cable with size annotation |
|  |  | HV cable – 3 core with route number annotation |

**section continued on next page**



## Cross sections continued (1:500 view)

| NetMAP system | Scanned image | Description |
|---|---|---|
|  |  | HV cable – modern EPR, Plam and Triplex with route number annotation |
|  |  | Pilot cable |
|  |  | 33kV cable |
|  |  | 132kV cable |
|  |  | Single duct |
|  |  | 6 way duct formation – irrespective of duct type and material, all are displayed similarly |
|  |  | Protective slab<br>Tiles<br>Concrete slabs<br>33kV fibre warning board<br>Steel plate<br>Plastic tile tape<br>Timber |
| Timber  |  | |

## Common abbreviations and terminology (all views)

| Abbrev. | Description |
|---|---|
| 1c | Single core |
| 1ph | Single phase |
| 2c | Two core |
| 3c | Three core |
| 3ph | Three phase |
| ABC | Aerial bunched (bundled) conductor (modern LV overhead line) |
| ABI | Air break isolator (no fuses) |
| ABSD | Air break switch disconnector |
| ACCS | Aluminium concentric copper sheathed |
| Al | Aluminium |
| AR | Auto recloser |
| ASL | Automatic sectionalising links |
| ax | Triplex (aluminium) |
| | 2 x 22mm AL PVC (example) Duplex |
| | 3 x 22mm AL PVC (example) Triplex |
| CB | Circuit breaker |
| c/c | Concentric cores |
| ccc | Compact covered conductor |
| CCT | Circuit |
| CNE | Combined neutral and earth |
| Cross phased | The core colour may be different to originating transformer phasing |
| CS | Consac |
| CSE | Cable sheath earth |
| Cu | Copper |

| Abbrev. | Description |
|---|---|
| Cut out or C/O | Meter/main fuse position |
| cx | Triplex (copper) |
| DE | Direct earth |
| DSTA | Double steel tape armoured |
| Ea | Alpex cable |
| EFI | Earth fault passage indicator |
| EHV | Extra high voltage (11,001 Volts and over) |
| ELCB | Earth leakage circuit breaker |
| ELT | Earth leakage trip |
| EPR | Ethylene propylene rubber |
| Ew | Waveform cable |
| E/W | Earthenware duct or earth wire |
| Fdr or Feeder | LV or HV cable fed by or feeding a substation |
| F/G | Fuse gear |
| F/P | Feeder pillar |
| GRP | Fibreglass substation |
| GVR | Gas vacuum recloser or pole mounted circuit breaker |
| HV | High voltage (1,001–11,000 Volts incl) |
| HYBRID | Modern plastic cable with mixed conductor material (Al/Cu) |
| Insulation | Electrically protective material surrounding a conductor |
| Insulator | Porcelain or glass over–head line support (on poles) |
| ITC | Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar |

**section continued on next page**



## Common abbreviations and terminology continued (all views)

| Abbrev. | Description |
|---|---|
| Jumper | Connecting lead between open points, section points and overhead plant |
| kV | Kilovolt (or 1,000 Volts) – unit of electrical pressure |
| kW | Kilowatt (1,000 Watts) – unit of electrical power |
| kVA | Kilovolt Amps or power |
| Link box or LB | Means of connecting LV feeders together using links or fuses |
| LSF | Low smoke & fume |
| LV | Low voltage (up to 1,000 Volts incl) |
| LV Pillar | Low voltage fuse distribution board |
| Neutral | Return path of live cable |
| O/H or OHL | Overhead line |
| OYS | Oil filled pole mounted sectionaliser |
| OYT | Oil filled pole mounted recloser |
| PC400 | Pole mounted LV fuse unit |
| PE | Pot end or potential end – joint on cable end |
| Phase | Usually the core colour of a cable (caution – may be cross phased) – Red, Yellow, Blue on old cables, or L1, L2, L3 on new cables, for example |

| Abbrev. | Description |
|---|---|
| PICAS | Paper insulated corrugated aluminium sheath armoured |
| PILC | Paper insulated lead covered |
| PILSTA | Paper insulated lead covered steel tape armoured cable |
| PL | Plain lead or public lighting |
| PME | Protected multiple earth or CNE |
| PMT | Pole mounted transformer |
| PMR | Pole mounted recloser (generic term for OYT/GVR) |
| PT | Pole transformer |
| PVC | Polyvinyl chloride |
| RMU | Ring main unit |
| RN | Reduced neutral |
| s/c | Split concentric or single core |
| S/L | Street light |
| S/S | Substation |
| STA | Steel tape armoured |
| SWA | Steel wire armoured |
| T1 or T2 etc | Substation TX setup where more than one TX exists |
| T/F or TX | Transformer |
| Volts | Unit of electrical pressure |
| Watts | Unit of electrical power |
| XLPE | Cross linked polyethylene |

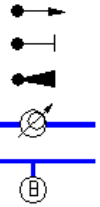
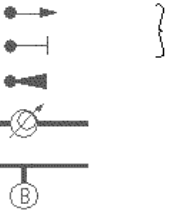
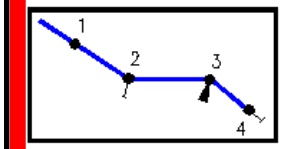
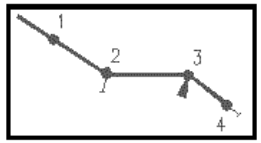
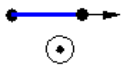
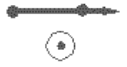
# 1:2500 & 1:10000 view - overhead networks - for UK Power Networks use only - boxed in red

## General

| NetMAP system | Scanned image | Description |
|---|---|---|
|  |  | H pole<br>Pole |



## 1:2500 scale LV network

| NetMAP system | Scanned image | Description |
|---|---|---|
| No NetMAP equivalent | | 132kV cable route |
| No NetMAP equivalent | | 33/22kV cable route |
| No NetMAP equivalent | | 11kV underground cable |
|  |  | 132kV overhead line |
|  |  | 33kV overhead line<br>dots mark pole position |
|  |  | 11kV overhead line –<br>dots mark pole position |
|  |  | Dual construction – dots<br>mark pole position |
|  |  | LV overhead line – dots<br>mark pole position |
| No NetMAP equivalent |  | LV underground cable |
|  |  | Pole and stay<br>Pole and strut<br>Voltage regulator<br>Static balancer |
|  |  | Example of<br>struts and stays |
|  |  | Flying stay |
| | | Earthed pole in PME system |
| 261 | 261 | Pole number |
| □ | □ | Ground type substation |
| S.P. | S.P. | Section pole |
| S.L. | S.L. | Street light |

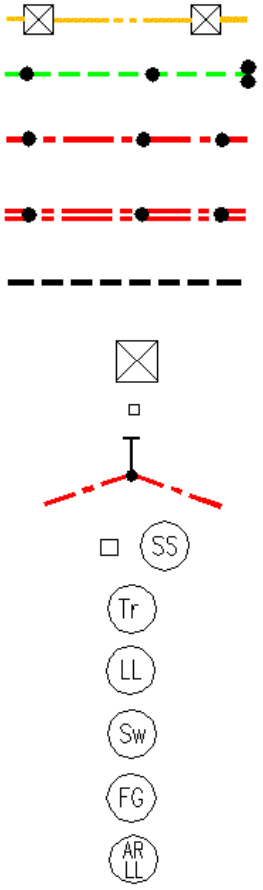
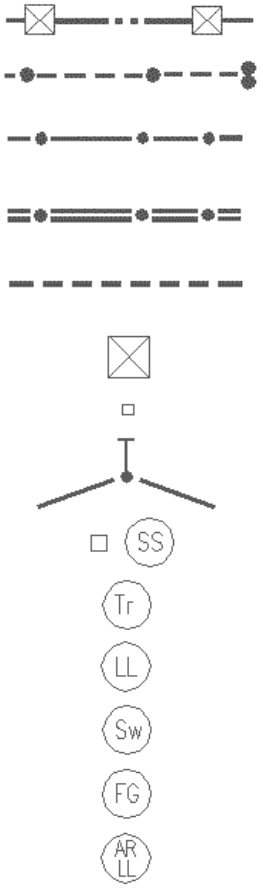
**section continued on next page**

## 1:2500 scale LV network continued

| NetMAP system | Scanned image | Description |
|---|---|---|
| O.R. Stay<br>Ext. Brkt<br>P. Box<br>N.E.<br>O.R. Brkt | O.R. Stay<br>Ext. Brkt<br>P. Box<br>N.E.<br>O.R. Brkt | Outrigger stay<br>Extension bracket<br>Pole box<br>Neutral and earth<br>Outrigger bracket |



## 1:10000 scale HV network

| NetMAP system | Scanned image | Description |
|---|---|---|
|  |  | 132kV overhead line<br>33kV overhead line dots mark pole position<br>11kV overhead line – dots mark pole position<br>11kV overhead line – dual circuit – dots mark pole position<br>11kV underground cable and EHV<br>Pylon HV or EHV<br>Grid line tower<br>Stay<br>Ground type substation<br>Pole type transformer<br>Live line taps<br>Switchgear – all types<br>Fuse gear<br>Auto recloser – live line connected |

The above circular substation/switchgear symbols may be found that contain different combinations of apparatus (see last example)

# LV network diagram view-for UK Power Networks use only-boxed in red

## Overhead lines

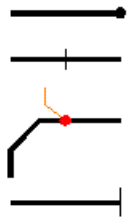
| NetMAP system | Description |
|---|---|
| | Unknown |
| | Al |
| | Cu |
| | ABC |
| | Pole link |



## Underground cables (LV network diagram view)

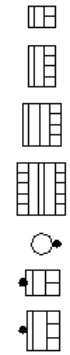
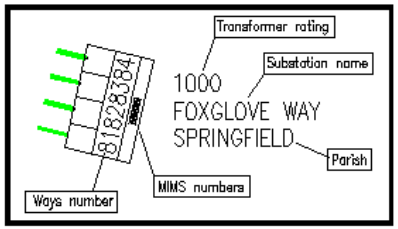
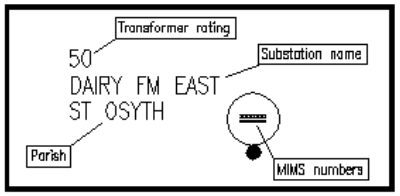
| NetMAP system | Description |
|---|---|
| | Unknown |
| | Al |
| | Cu |
| | CC |
| | TCC |
| | Ea |
| | Ec |
| | Ecx |
| | Ew |
| | LSF |
| | Other |

## Joints (LV network diagram view)

| NetMAP system | Description |
|---|---|
|  | Pot end or Sicame Box<br>Straight joint<br>Crutch joint<br>3 phase termination |

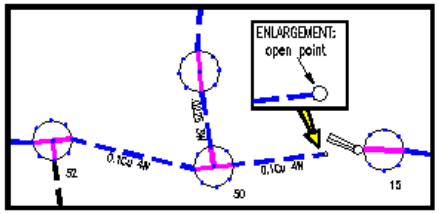
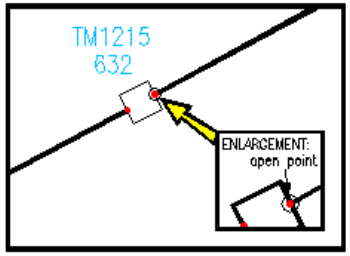


## Substations/pole transformers (LV network diagram view)

| NetMAP system | Description |
|---|---|
| There are many substation combinations – these are merely a sample of configurations that can be found. | |
|  | 2 way substation<br>4 way substation<br>4 way twin busbar substation<br>10 way back to back substation<br>Pole transformer (normal)<br>Pole transformer 2 way<br>Pole transformer 3 way |
|  | Substation with rating, name, Parish and MIMS identifying number |
|  | Pole transformer with rating, name, Parish and MIMS identifying number |
|  | Intermediate pole |
|  | Section pole |
|  | Overhead fuse |

**section continued on next page**

## Substations/pole transformers cont'd (LV network diagram view)

| NetMAP system | Description |
|---|---|
|  | Overview – the purple lines through the section poles are pole links – these indicate how the network is linked together |
|  | 2 way link box |
|  | 3 way link box |
|  | 4 way link box |
|  | 4 way double busbar link box |
|  | 4 way BICC link box |
|  | 5 way link box |
|  | 6 way link box |
|  | 6 way double busbar link box |
|  | A two way link box with identification number, connected to a cable with an open point |
|  | Feeder pillars – these range from 2 ways through to 9 ways – a 9 way and a 2 way are shown as examples |
|  | |

# Think
## before you...



# DIG UNDER GROUND

UK Power Networks

# THINK . . .

**Every year people are killed or seriously injured in incidents involving underground electricity cables.**

## THE DANGER

Underground cables carry a powerful electrical charge which can be conducted through machinery and equipment with fatal consequences. Anyone working close to live underground cables should take time to read this simple safety leaflet and identify the precautions they should be taking.

## WHO IS AT RISK?

People in construction, demolition, agriculture, infrastructure or anywhere else where excavation is taking place. That is why it is vital everyone working on or visiting a working site is fully aware of the hazards and the steps that must be taken to avoid them.

## HOW INCIDENTS HAPPEN

Sadly, accidents where excavators, breakers or other tools make contact with power cables are not uncommon. Where equipment or machinery is used near underground cables the risk must be considered and controlled in the interests of everyone.

# THINK AHEAD

Get the basics right. Familiarise yourself with the site. Mark the route of underground cables running across the site on all plans circulated to staff. Find out if the work could be carried out away from the cables, or avoided all together.

UK Power Networks is committed to safety and actively encourages anyone undertaking work to contact us in advance for advice and free cable locating maps.

These will help you avoid our underground cables during your work, which is vital for your safety as well as ensuring we can provide a reliable supply of electricity.

For free maps and advice call **0800 056 5866** or write to:
Plan Provision
UK Power Networks
Fore Hamlet
Ipswich
IP3 8AA
plans@ukpowernetworks.co.uk

We can advise you on what steps to take if essential work is necessary close to underground cables and help ensure safe working practises are implemented.

Good management reduces the risk of accidents. With proper planning and control, workers should not come into contact with underground cables.

If excavation work forms a part of your day-to-day activities obtain a copy of the Health & Safety Executive's Guidance Note "Avoiding Danger from Underground Services" HSG47, which is free to download from the HSE's website - **www.hse.gov.uk/pubns/priced/hsg47.pdf**

# WHAT TO DO

- **Have cable drawings and records on site**, know how to read them and check them before starting work. Be aware that not all cables may be shown on the records.
- **Look around for anything in the vicinity** that would have an electricity service, such as street lights, CCTV cameras, phone boxes, etc. as well as the more obvious things like houses and industrial units.
- **Always** use a cable avoidance tool (CAT) to survey the entire site before digging commences. Once found, mark cable positions with spray paint or similar. Do not forget to use encroachment lines as well.
- **Dig trial holes**, by hand, alongside the indicated route of the cables(s).
- Use spades and shovels with **insulated handles** in preference to forks and picks.
- **Make sure everyone** on site, including visitors, **understand the risks**.
- If there is a **cable encased in concrete** contact **UK Power Networks to agree a safe method of work**. This may mean making the cable dead.
- Before demolishing a building **make sure that supplies are disconnected,** preferably well clear of the work area. For guidance on how to arrange a disconnection visit www.ukpowernetworks.co.uk – Our Services
- Have the **emergency contact telephone number** easily available on site.



# WHAT NOT TO DO

- Never allow anyone near a damaged or suspected damaged cable or joint.
- Do not handle or attempt to alter the position of a cable or joint.
- Never assume that cables run in straight lines, they may be deflected around underground obstacles.
- Do not use mechanical excavator or powered digging tool within the vicinity of known cables.
- Never knock a road pin, or forcibly throw a spiked digging tool into the ground, without checking what is below the surface.

# IF A CABLE IS DAMAGED

**Notify UK Power Networks immediately:**

**London 0800 028 0247**
**East of England 0800 783 8838**
**South East 0800 783 8866**

**Call the emergency services if anyone is injured**. Anyone who has received an electrical shock should go to hospital as damage may have occurred to the heart.

Always **treat the cable(s) as live** even if they are not sparking. Cables can be re-energised at any time without warning.

**Never remove anything** that is stuck **in a cable.**

**Keep everyone well away** from the area of the damage.

**Do NOT** attempt to remove anything that is in contact with the cable.



PLAN IT OUT

# CHECK IT OUT BEFORE YOU DIG UNDER GROUND

# DANGER OF DEATH

## THINK BEFORE YOU DIG

Call the network operator

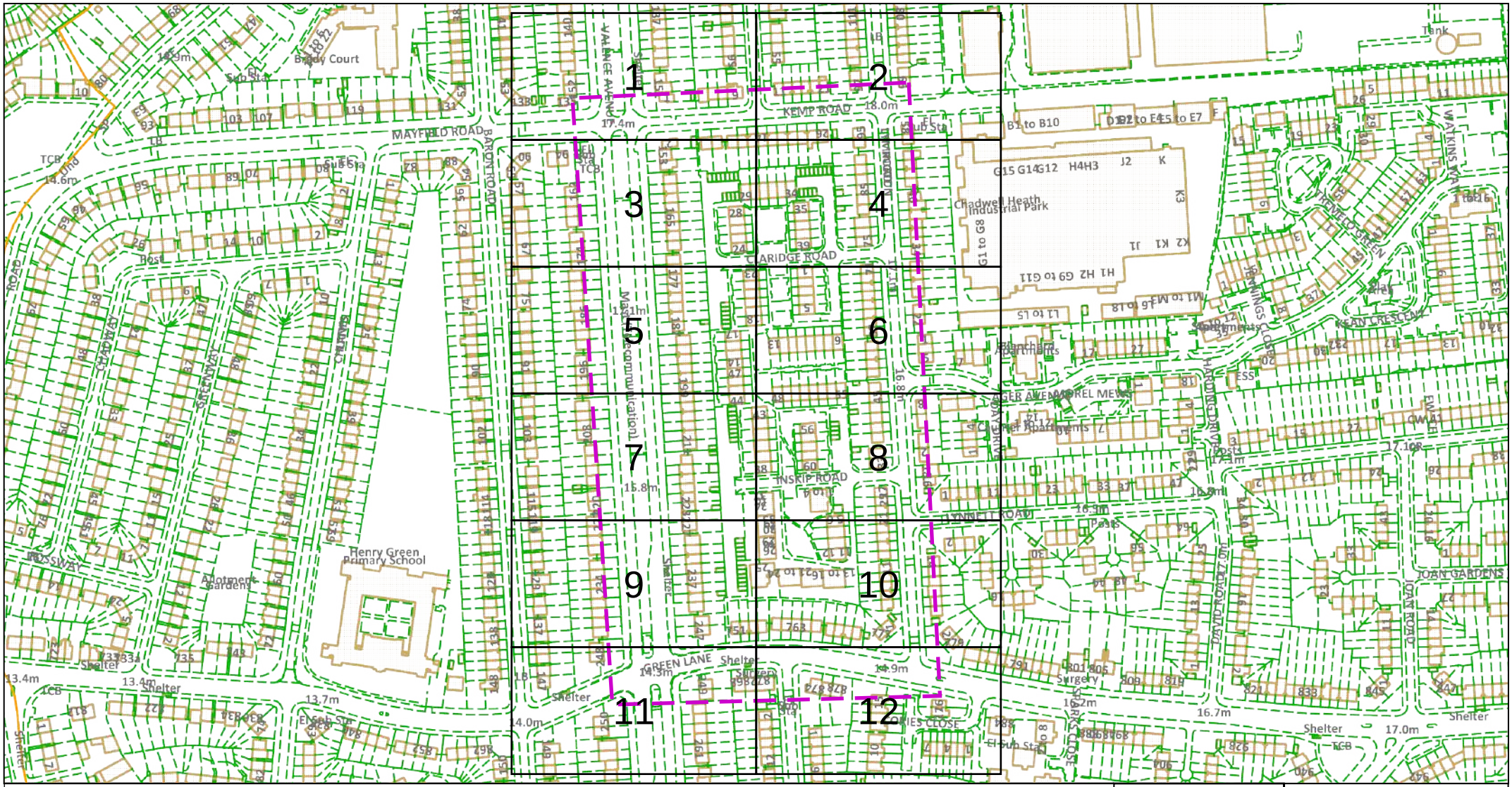
# 0800 587 3243

www.ukpowernetworks.co.uk

If you are unsure of your network operator then please visit www.energynetworks.org

UK Power Networks,
Registered office: Newington House, 237 Southwark Bridge Road, London SE1 6NP
Registered in England and Wales No: 3870728

UK Power Networks




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Job Reference: 19839706
Site Location: 547444 186804
Requested by:
Mr David Haigh
Your Scheme/Reference:
421487
Scale: 1:3075 (When plotted at A4)

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

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2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
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 for any loss, damage, cost, 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. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
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N W E S

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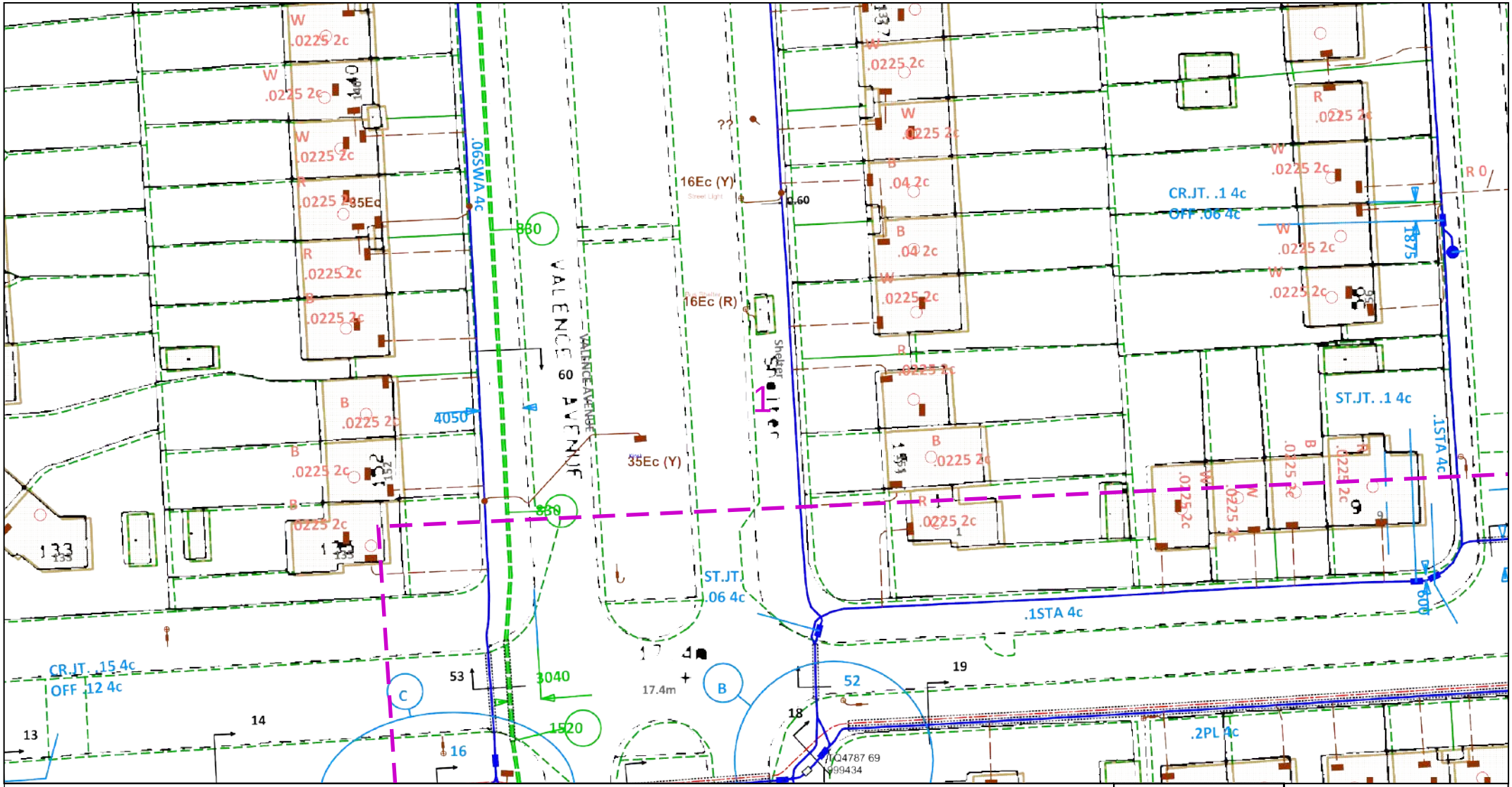
IF IN DOUBT - ASK! PHONE
0800 056 5866
EMERGENCY - If you damage a cable or line
Phone 0800 783 8838 (24hrs)
URGENTLY

LOOK OUT LOOK UP

ALWAYS LOOK UP BEFORE YOU START WORK
Refer to HSE Guidance note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

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N W E S

UK Power Networks

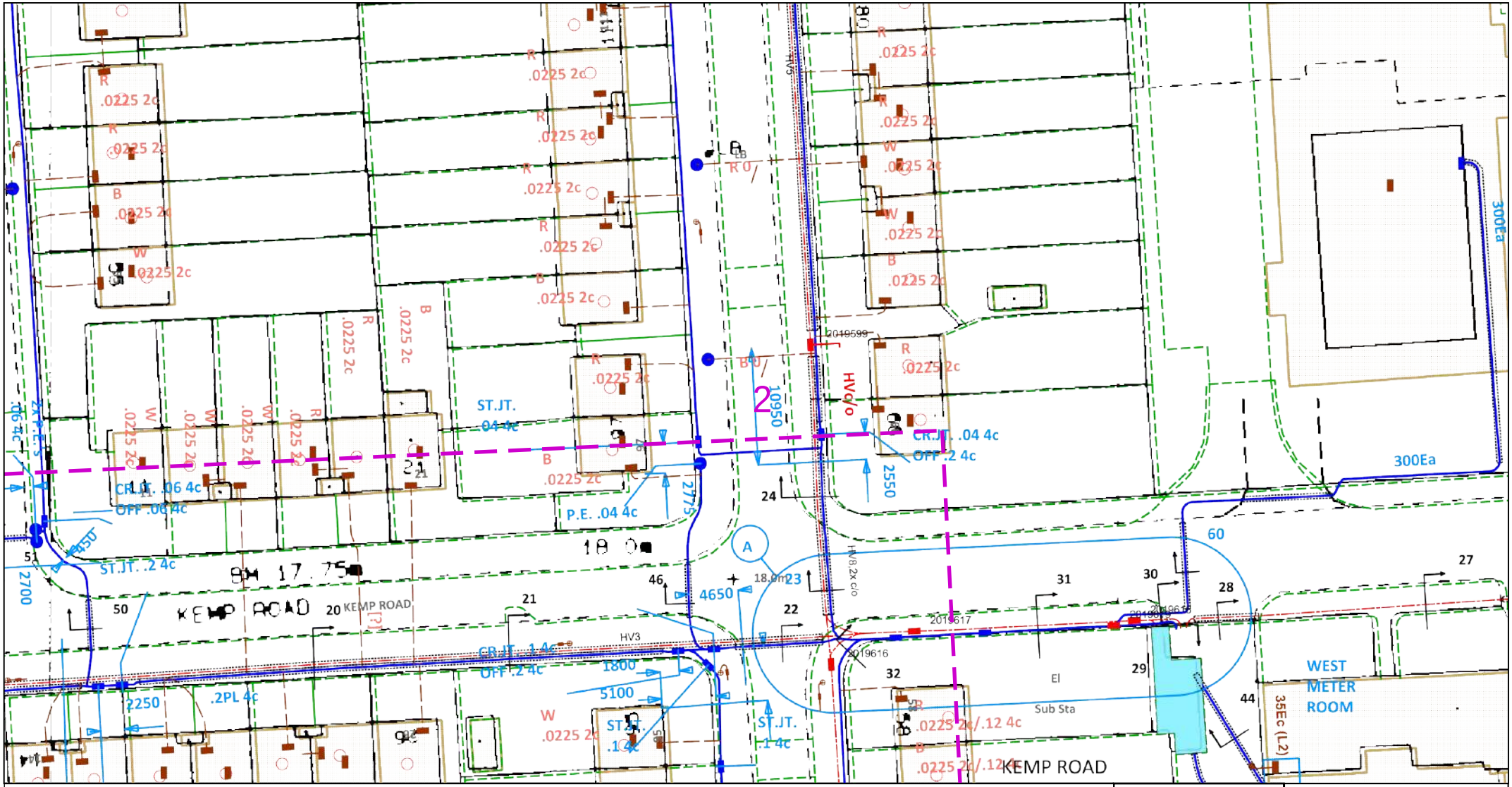
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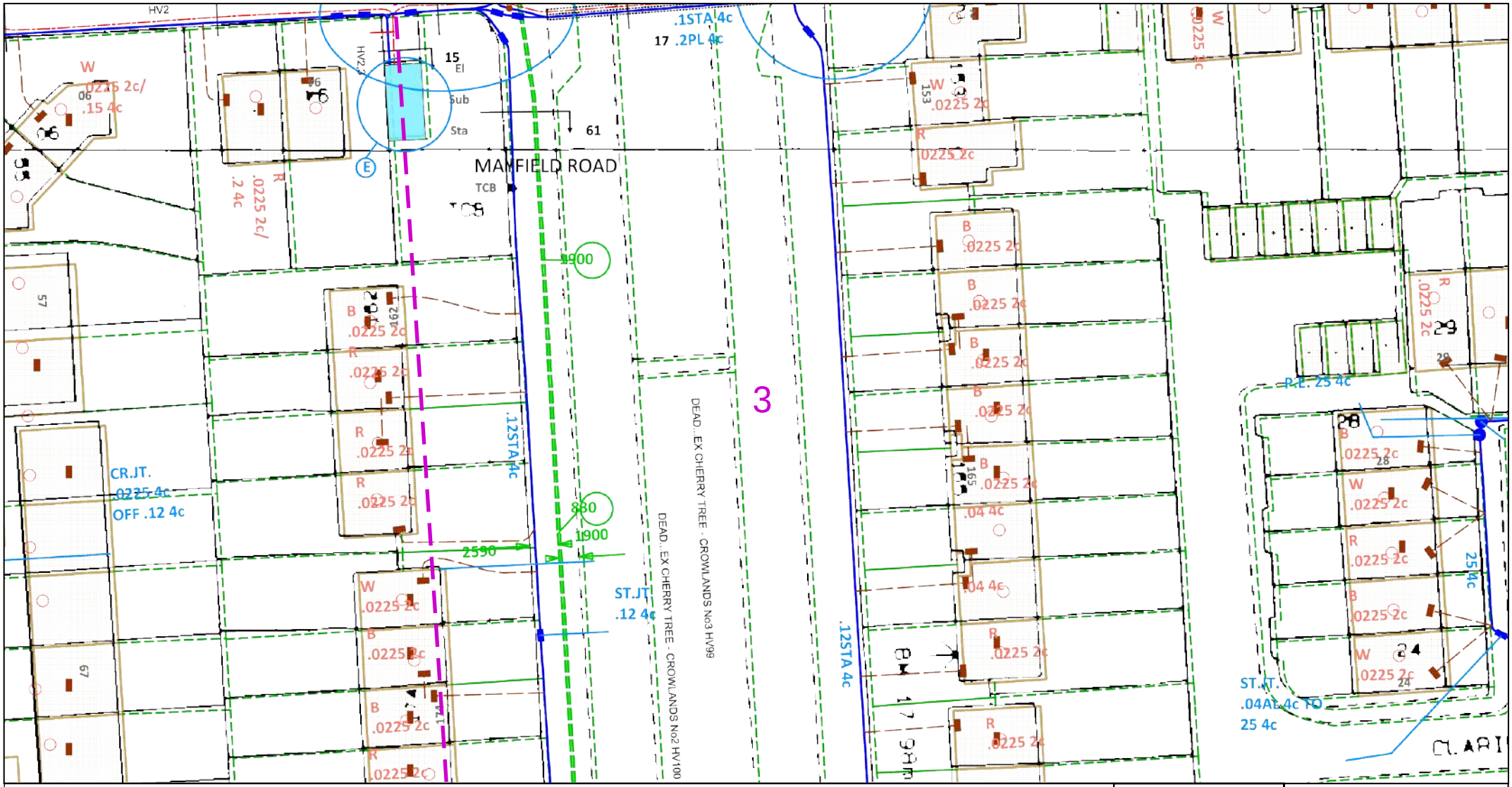
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Date Requested: 04/09/2020
Job Reference: 19839706
Site Location: 547444 186804
Requested by: Mr David Haigh

Your Scheme/Reference: 421487
Scale: 1:500 (When plotted at A4)

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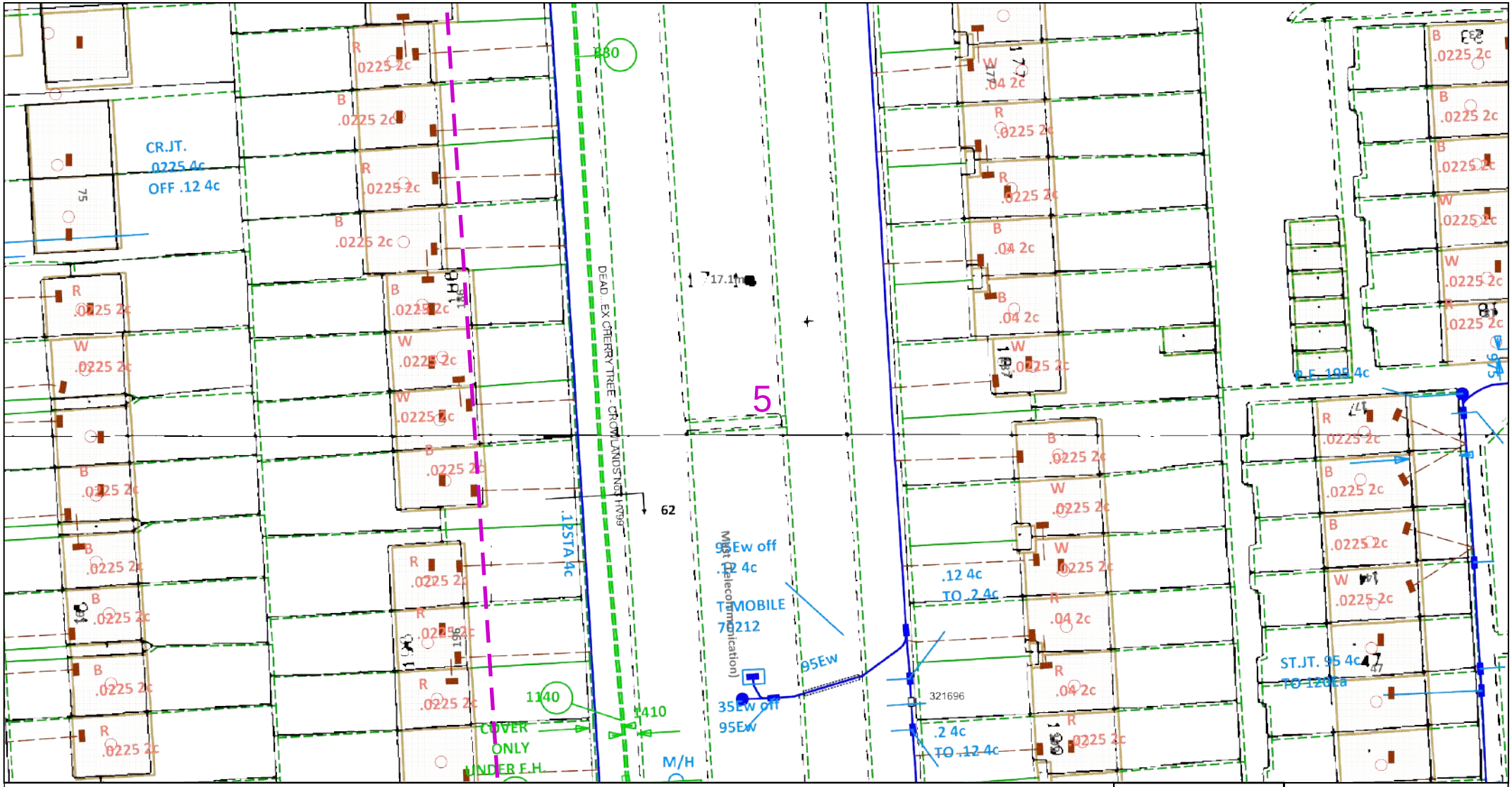
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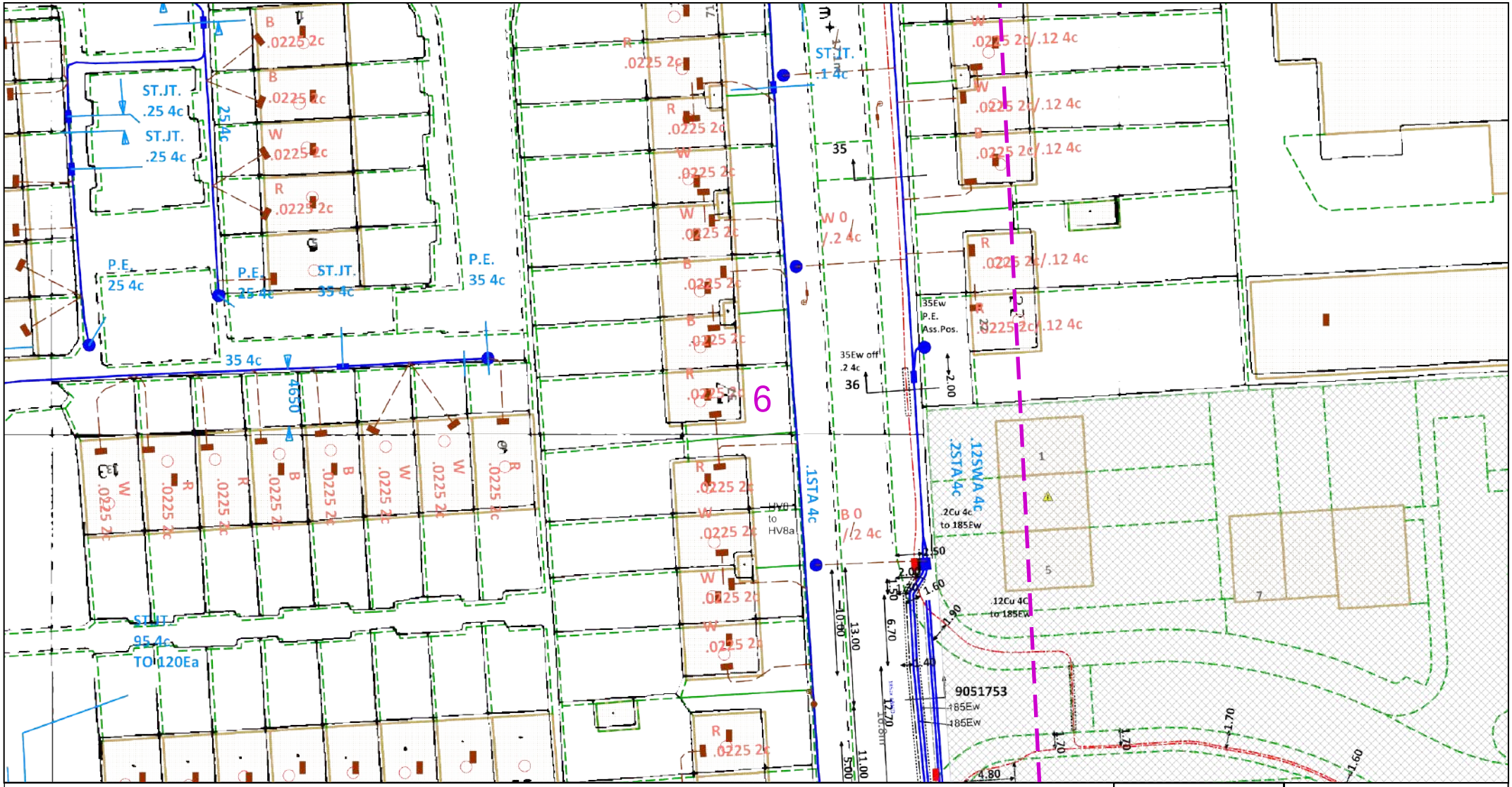
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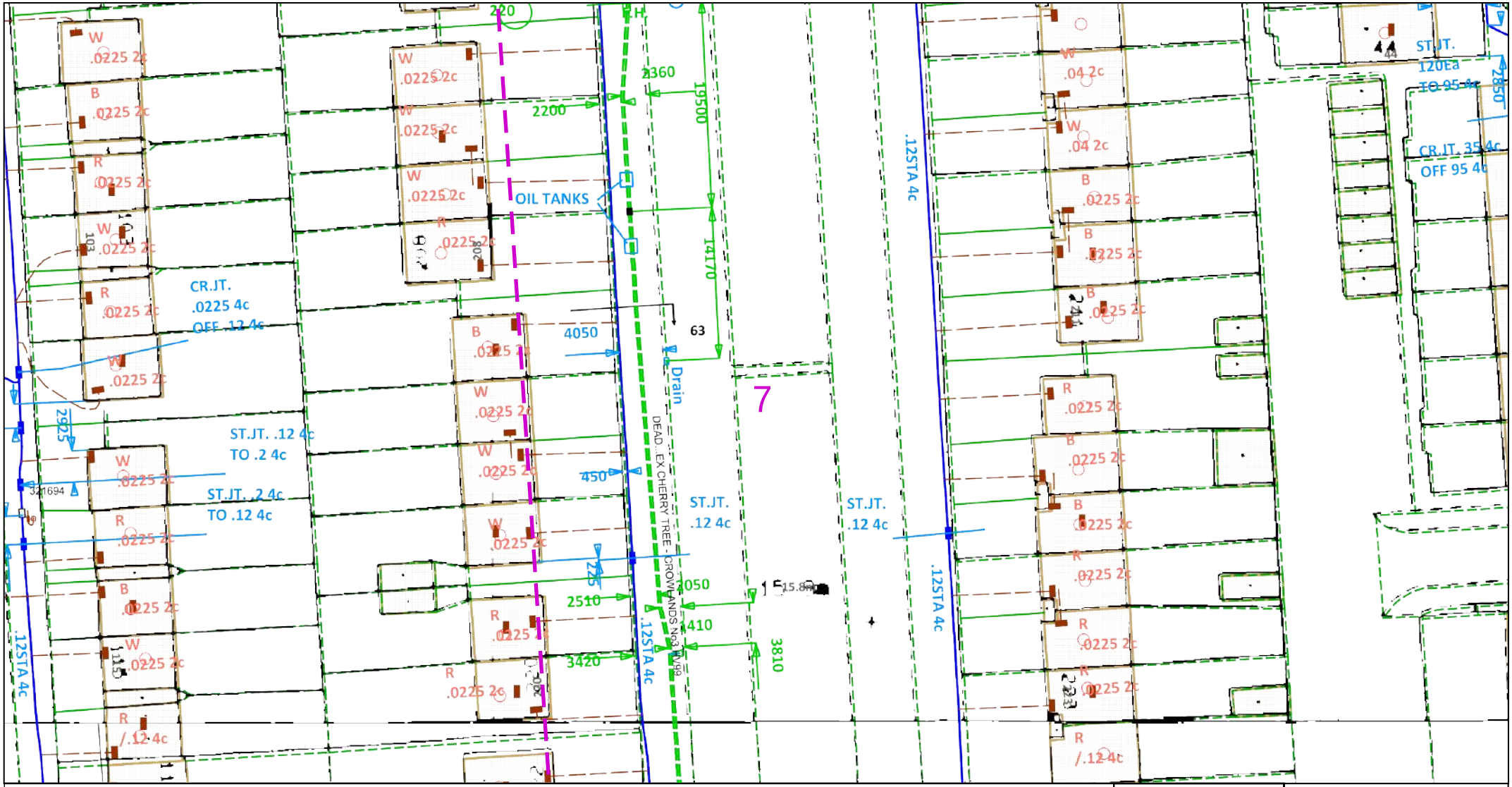
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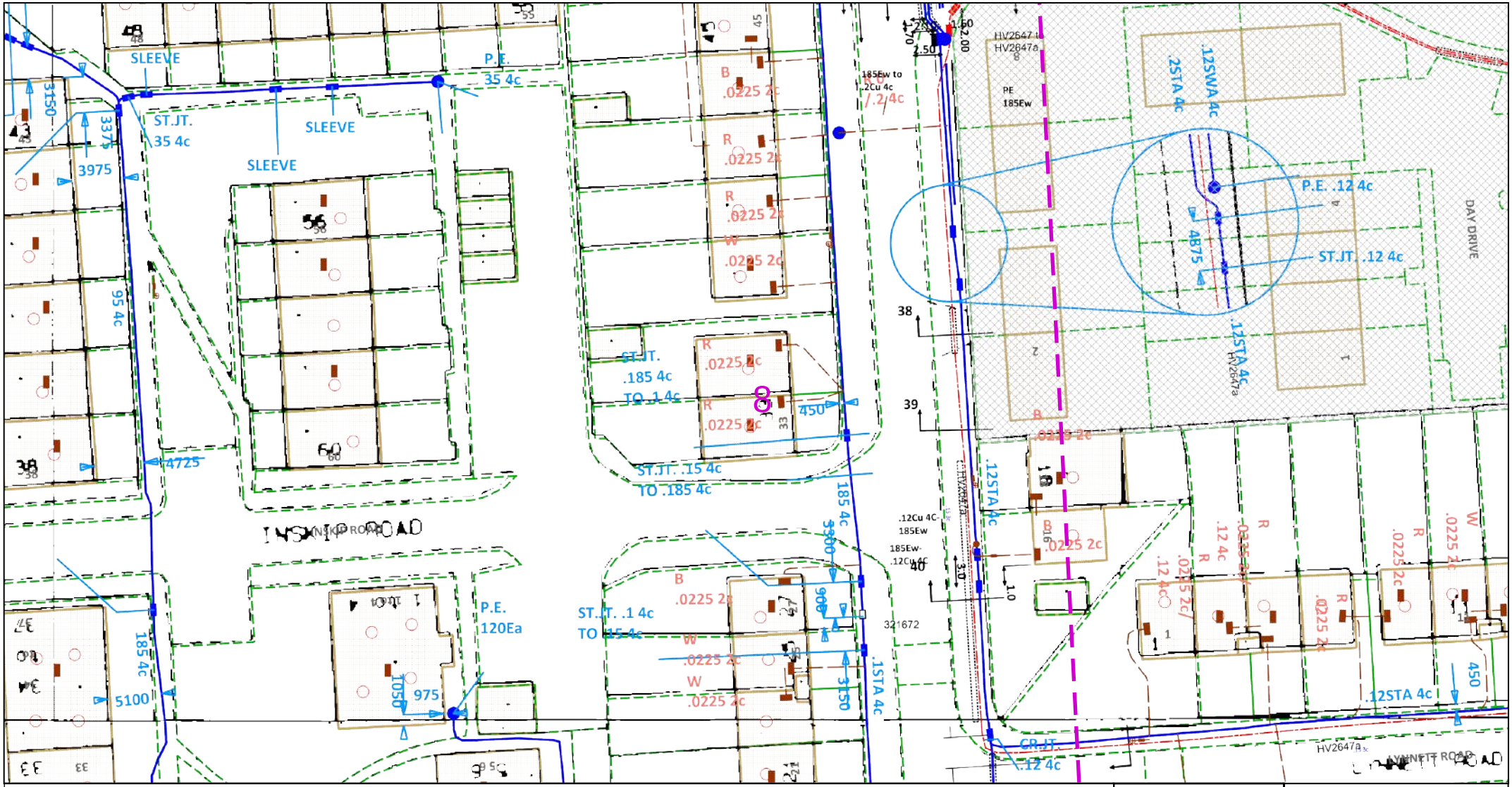
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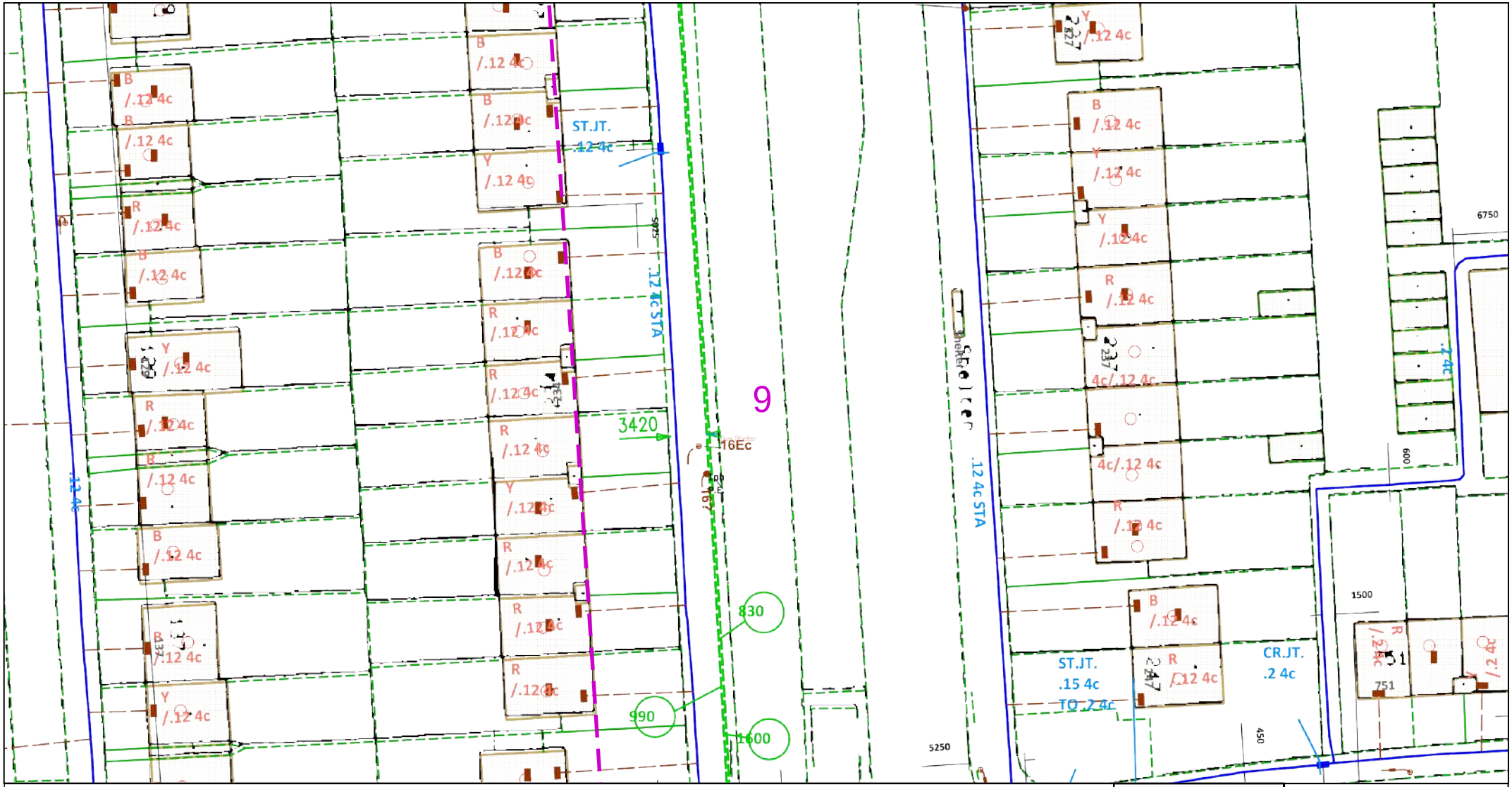
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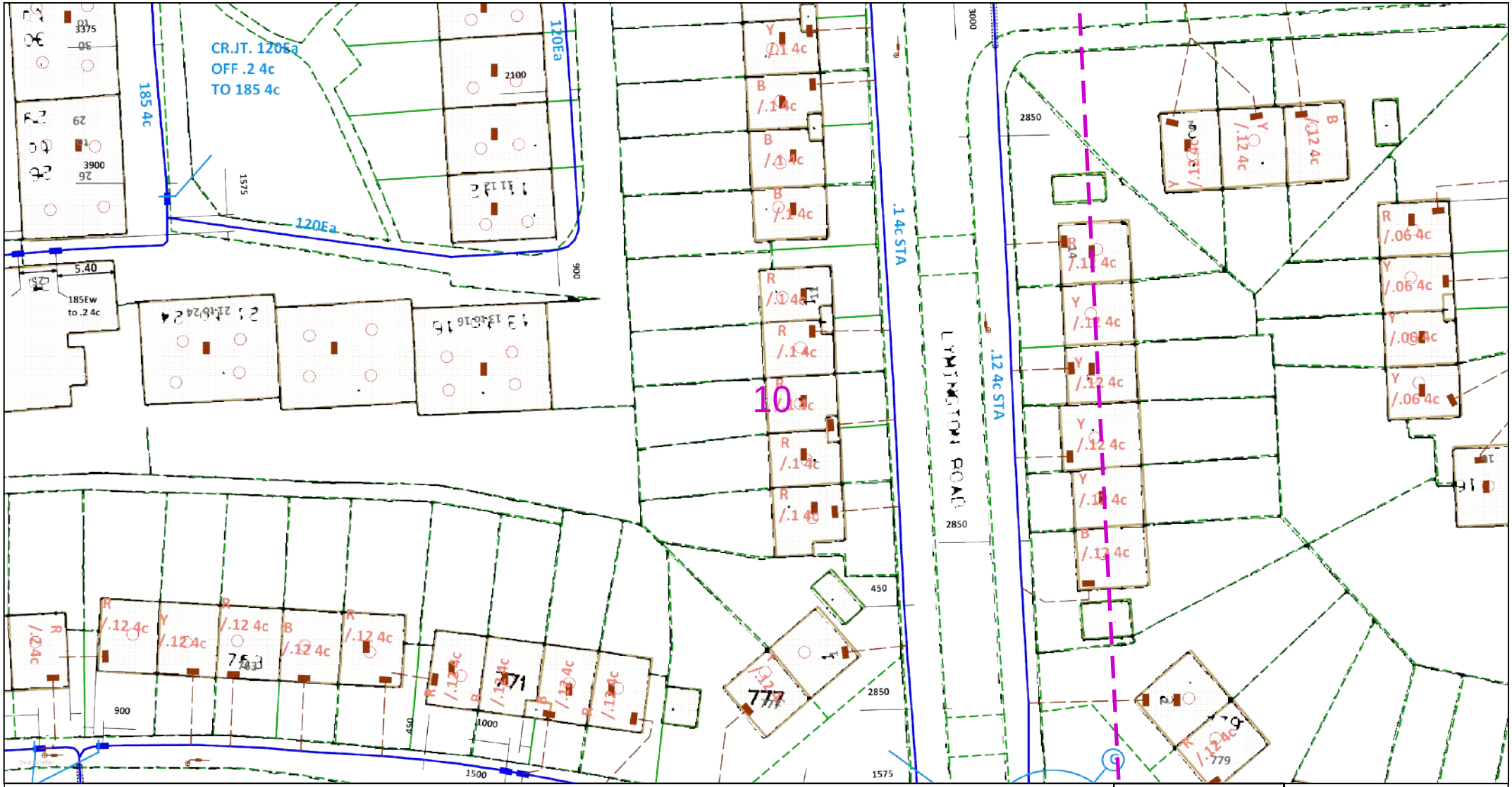
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Job Reference: 19839706
Site Location: 547444 186804
Requested by: Mr David Haigh

Your Scheme/Reference: 421487
Scale: 1:500 (When plotted at A4)

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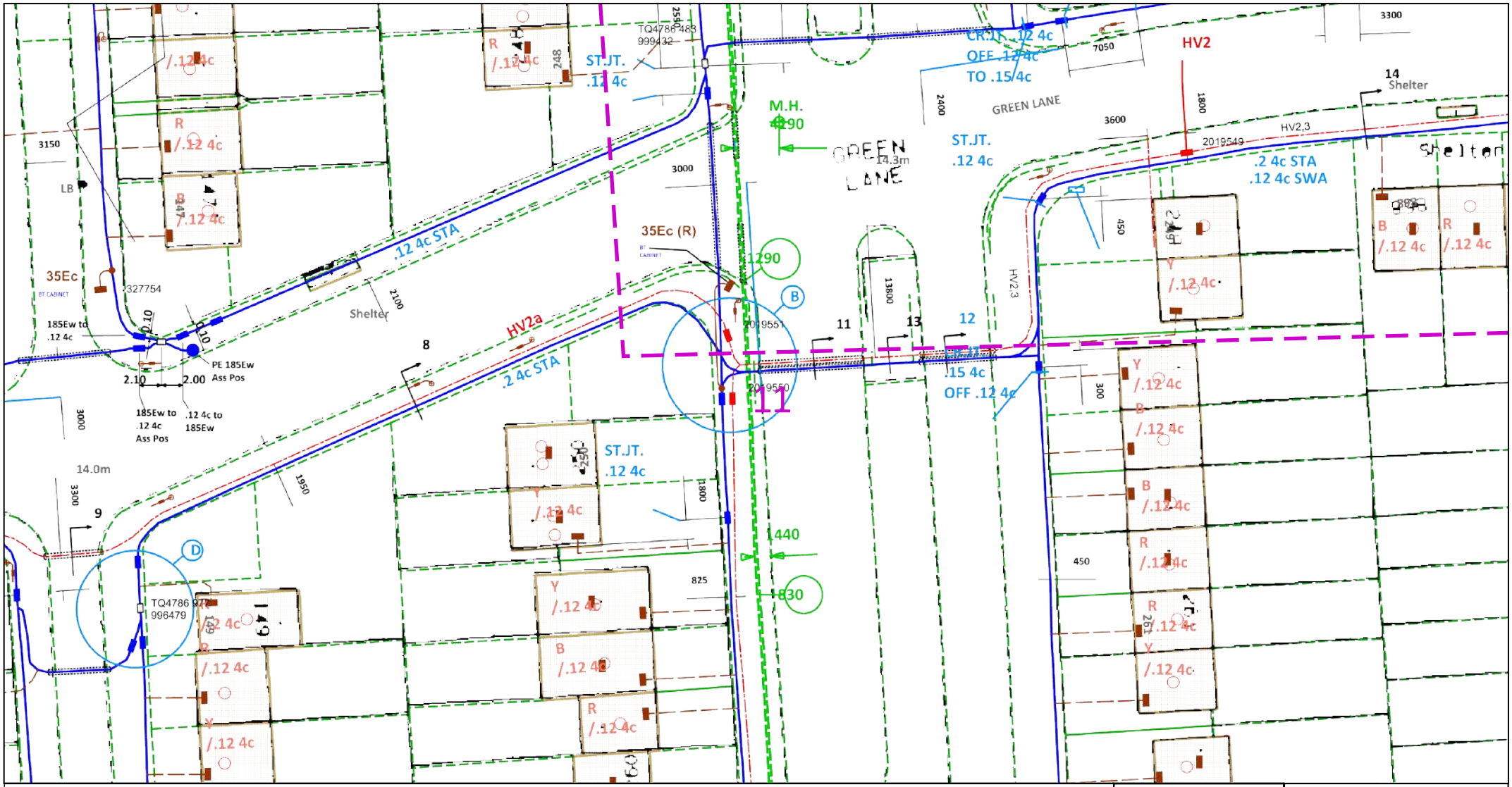
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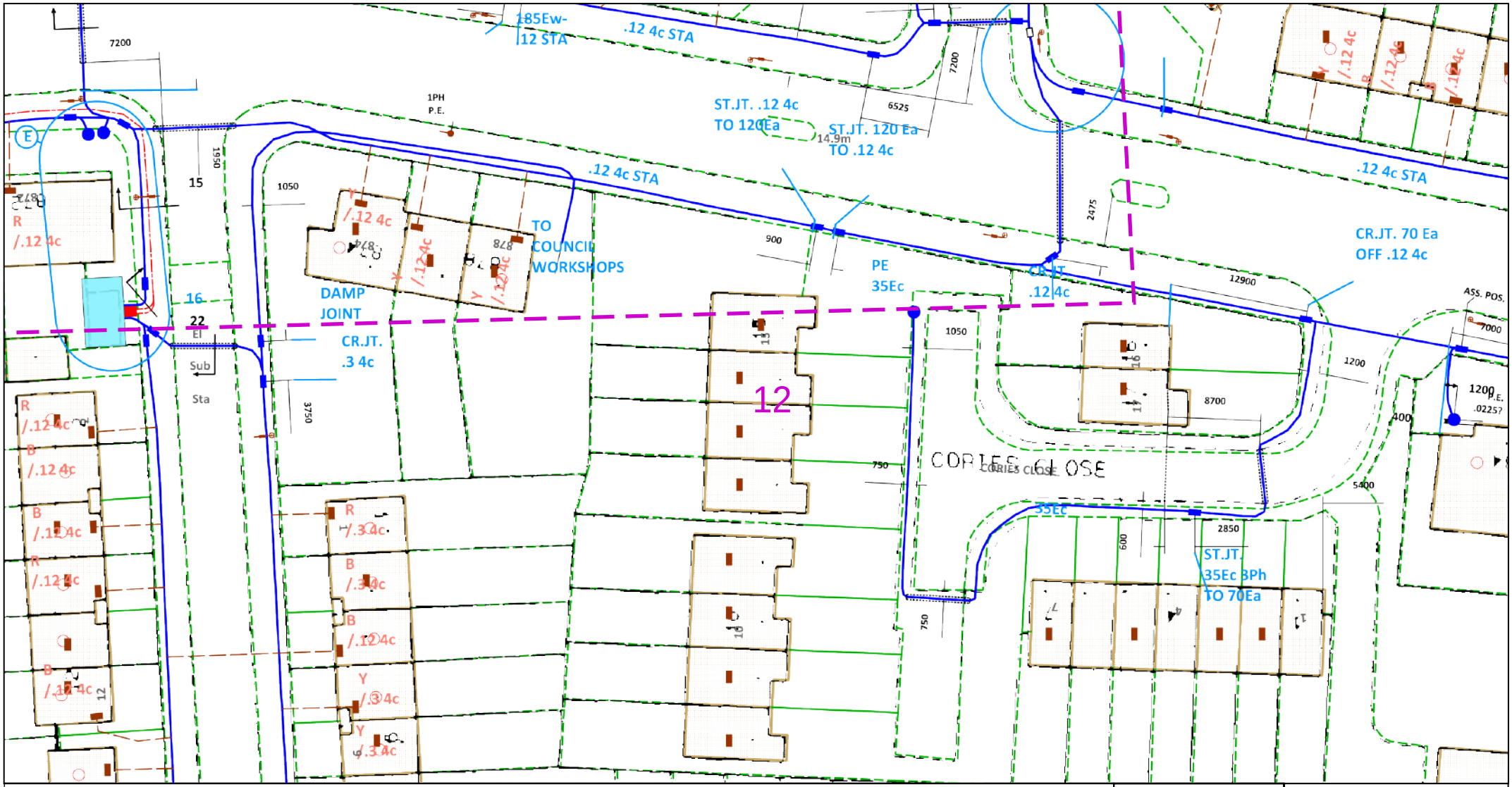
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Cross Section : 17

# See Supplemental Diagram TQ4786NEA for Cross-Section 17 details

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Cross Section : 22

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Cross Section : 21

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Cross Section : 15

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Cross Section : 14

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Cross Section : 22

# See Supplemental Diagram TQ4786NEA for Cross-Section 22 details

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Cross Section : 8

# See Supplemental Diagram TQ4786NEA for Cross-Section 8 details

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Cross Section : 13

# See Supplemental Diagram TQ4786NEA for Cross-Section 13 details

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Cross Section : 11

# See Supplemental Diagram TQ4786NEA for Cross-Section 11 details

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Cross Section : 13

# See Supplemental Diagram TQ4786NEA for Cross-Section 13 details

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Cross Section : 19

# See Supplemental Diagram TQ4787SEB for Cross-Section 19 details

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Cross Section : 18

# See Supplemental Diagram TQ4787SEB for Cross-Section 18 details

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Cross Section : 18

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Cross Section : 17

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Cross Section : 15

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

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Cross Section : 60

# See Supplemental Diagram TQ4787SEA for Cross-Section 60 details

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Cross Section : 53

# See Supplemental Diagram TQ4787SEB for Cross-Section 53 details

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Cross Section : 61

# See Supplemental Diagram TQ4787SEB for Cross-Section 61 details

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Cross Section : 15

# See Supplemental Diagram TQ4787SEB for Cross-Section 15 details

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Cross Section : 14

# See Supplemental Diagram TQ4787SEB for Cross-Section 14 details

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Cross Section : 13

# See Supplemental Diagram TQ4787SEB for Cross-Section 13 details

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Cross Section : 24

# See Supplemental Diagram TQ4787SEB for Cross-Section 24 details

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Cross Section : 31

See Supplemental Diagram
TQ4787SEB
for Cross-Section 31 details

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Cross Section : 22

# See Supplemental Diagram TQ4787SEB for Cross-Section 22 details

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Cross Section : 22

# See Supplemental Diagram TQ4787SEB for Cross-Section 22 details

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

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Cross Section : 32

# See Supplemental Diagram TQ4787SEB for Cross-Section 32 details

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Cross Section : 33

# See Supplemental Diagram TQ4787SEB for Cross-Section 33 details

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Cross Section : 46

# See Supplemental Diagram TQ4787SEB for Cross-Section 46 details

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Cross Section : 21

# See Supplemental Diagram TQ4787SEB for Cross-Section 21 details

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Cross Section : 20

# See Supplemental Diagram TQ4787SEB for Cross-Section 20 details

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Cross Section : 50

# See Supplemental Diagram TQ4787SEB for Cross-Section 50 details

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Cross Section : 51

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Cross Section : 49

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Cross Section : 36

# See Supplemental Diagram TQ4787SEB for Cross-Section 36 details

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Cross Section : 35

# See Supplemental Diagram TQ4787SEB for Cross-Section 35 details

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Cross Section : 47

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Cross Section : 34

# See Supplemental Diagram TQ4787SEB for Cross-Section 34 details

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Cross Section : 48

# See Supplemental Diagram TQ4787SEB for Cross-Section 48 details

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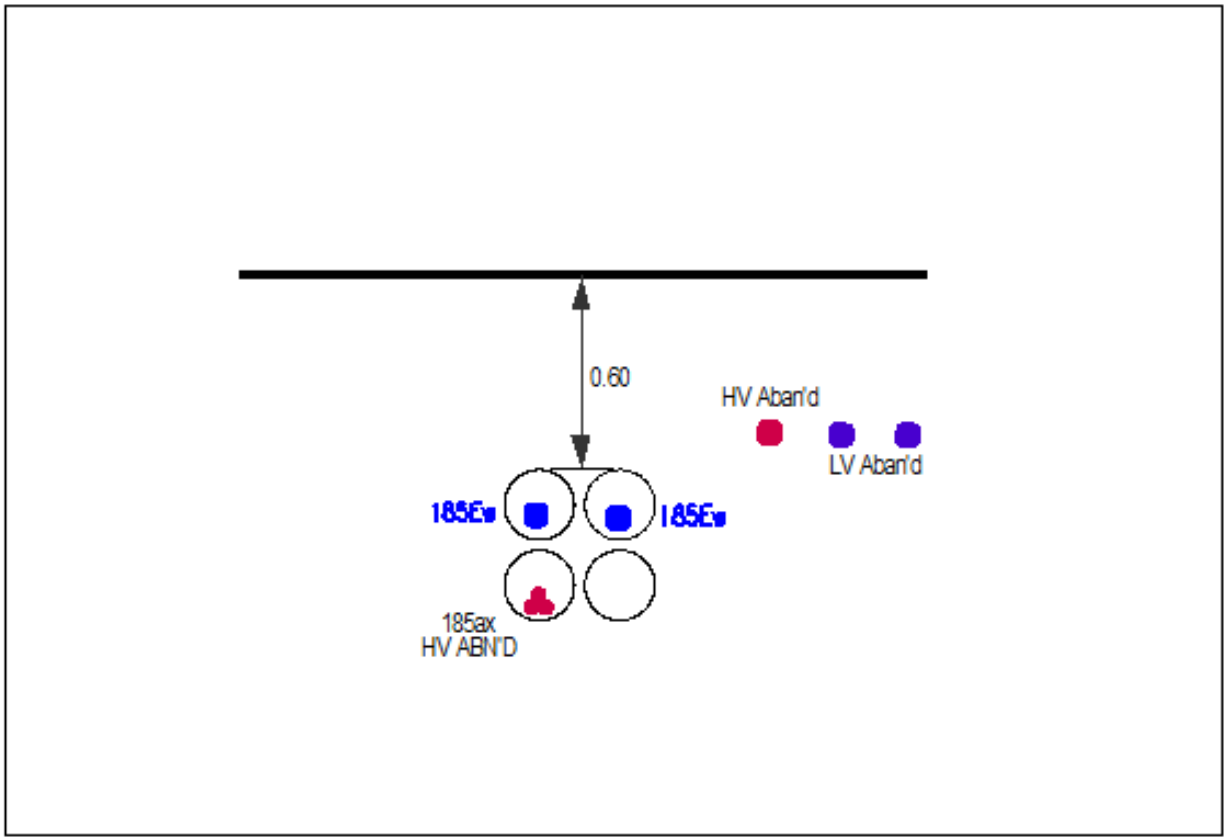
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# Cross Section : 9051753




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Cross Section : 38

# See Supplemental Diagram TQ4787SEB for Cross-Section 38 details

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Cross Section : 39

See Supplemental Diagram
TQ4787SEB
for Cross-Section 39 details

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Cross Section : 40

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Cross Section : 62

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Cross Section : 63

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Cross Section : 27

# See Supplemental Diagram TQ4787SEB for Cross-Section 27 details

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2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
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5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
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Cross Section : 28

# See Supplemental Diagram TQ4787SEB for Cross-Section 28 details

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Cross Section : 45

# See Supplemental Diagram TQ4787SEB for Cross-Section 45 details

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Cross Section : 44

# See Supplemental Diagram TQ4787SEB for Cross-Section 44 details

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Cross Section : 30

See Supplemental Diagram
TQ4787SEB
for Cross-Section 30 details

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Cross Section : 29

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Cross Section : 30

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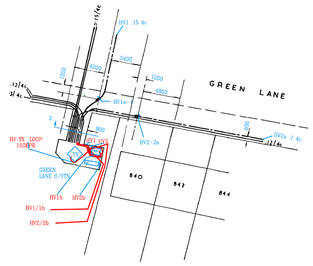
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1:500 LV

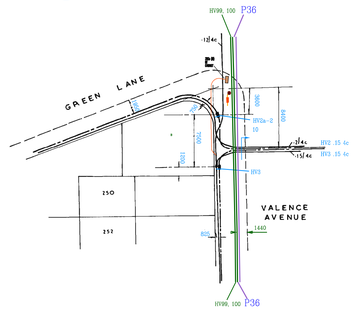
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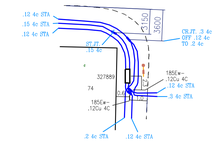
ENLARGEMENT A



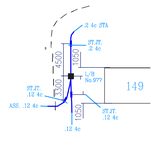

ENLARGEMENT B



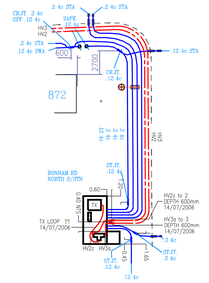

ENLARGEMENT C



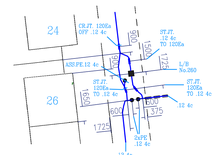

ENLARGEMENT D

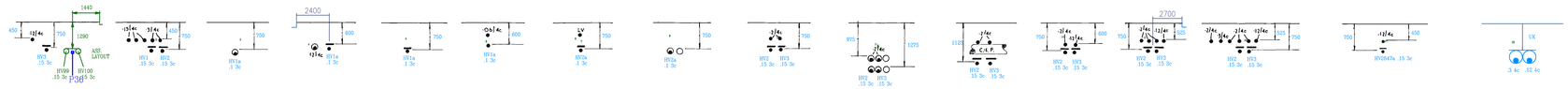



ENLARGEMENT E

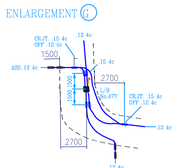



ENLARGEMENT F




ENLARGEMENT G




Serial numbers refer to this sheet only

| No. | kV | Size | Cores | Designation | Lengths metres | Lengths yards | No. | kV | Size | Cores | Designation | Lengths metres | Lengths yards |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HV1 | 11 | 15 | 3 | CHITTYS LANE – GREEN LANE | | | HV99 | 33 | | | DEAD...EX CHERRY TREE / CROWLANDS GRID No3 | | |
| HV1a | 11 | 1 | 3 | CHITTYS LANE – GREEN LANE | | | HV100 | 33 | | | DEAD...EX CHERRY TREE / CROWLANDS GRID No2 | | |
| HV1b | 11 | 150SQMI | 3no/c | CHITTYS LANE – GREEN LANE | | | P36 | | | | BARKING – C/WITH – CHERRYTREE | | |
| HV2 | 11 | 15 | 3 | BONHAM ROAD NORTH – GREEN LANE | | | | | | | | | |
| HV2a | 11 | 1 | 3 | BONHAM ROAD NORTH – GREEN LANE | | | | | | | | | |
| HV2b | 11 | 150SQMI | 3no/c | BONHAM ROAD NORTH – GREEN LANE | | | | | | | | | |
| HV2c | 11 | ?? | 3x1c | BONHAM ROAD NORTH – GREEN LANE | | | | | | | | | |
| HV3 | 11 | 15 | 3 | BONHAM ROAD NORTH – LINDISFARNE ROAD | | | | | | | | | |
| HV3c | 11 | ?? | 3x1c | BONHAM ROAD NORTH – LINDISFARNE ROAD | | | | | | | | | |
| HV2647a | 11 | .15 | 3 | JOAN RD – LYMINGTON FIELDS IDNO | | | | | | | | | |

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SHEET No. TQ4786NEA.s0

SUPPLEMENTARY SHEET No.

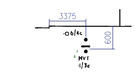
ISSUE C

DATE 16-04-02

# S0

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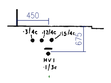
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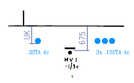

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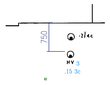

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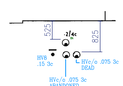

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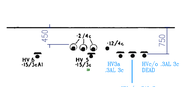

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26 & 28



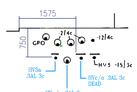

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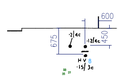

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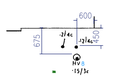

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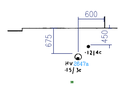

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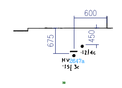

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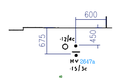

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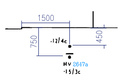

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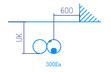

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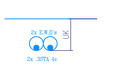

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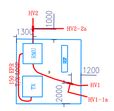


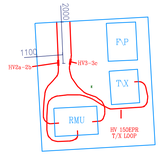

63


HV 3 -15|3c
HV 1 -075|3c ABANDONED
HV 1/2 -075|3c DEAD
-3|4c
N.B. - Both HV6/o's cross under kerb
HV6/o .075 .25 4c
HV6/o .3AL 3c
HV3a .3AL 3c ABAND
HV .075 3c ABAND
HV6 .15 3c
HV3a-3
HV ABAND
3000a
KEMP ROAD
3.00
0.60
0.60
28
HV6 .15AL 3c
HV3 .15 3c
.25PL 4c
HV5 off HV6
2400
3900
900
1950
2250
600
600
15.82
HV3d to 3a DEPTH 650mm M. ROWLES 22/04/2007
TX LOOP ??
HV3d to 5 DEPTH 650mm M. ROWLES 22/04/2007
HV5b to 6 DEPTH 650mm M. ROWLES 22/04/2007
LYMINGTON ROAD
14400
HV9038 22/04/2007
.075PL 4c
.075PL 4c
.075PL 4c

# s1

CHITTYS LANE S/S
ENLARGEMENT D




ENLARGEMENT E
MAYFIELD RD S/S

EASTERN ELECTRICITY

LOCATION

| REPRODUCED FROM AND BASED UPON THE ORDNANCE SURVEY MAP WITH PERMISSION OF THE CONTROLLER OF H.M. STATIONERY OFFICE<br>CROWN COPYRIGHT | SERVICES<br>FOR DETAILS OF SERVICE CABLE REFERENCE SHOULD BE MADE TO THE SERVICE CARDS IN THE LOCAL OFFICE | SHEET No.<br>TQ4787SEB.s1<br>SUPPLEMENTARY SHEET No. | ISSUE<br>C | DATE<br>22-04-02 |
|---|---|---|---|---|

Plant Protection
Cadent
Block 1; Floor 1
Brick Kiln Street
Hinckley
LE10 0NA
E-mail: plantprotection@cadentgas.com
Telephone: +44 (0)800 688588

**National Gas Emergency Number:**
**0800 111 999***

**National Grid Electricity Emergency Number:**
**0800 40 40 90***
* Available 24 hours, 7 days/week.
Calls may be recorded and monitored.

www.cadentgas.com

David Haigh
Apogee Utility Consultants
4 Pembroke Drve
College Lane
Wellington
Telford
Shropshire
TF1 3PT

**Date:** 04/09/2020
**Our Ref:** NL_GE4A_3SWX_718226
**Your Ref:** 421487
**RE: Proposed Works, RM8 1TU**

Thank you for your enquiry which was received on 04/09/2020.
Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to Cadent Gas Limited, National Grid Electricity Transmission plc's and National Grid Gas Transmission plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.
For details of Network areas please see the Cadent website (http://cadentgas.com/Digging-safely/Dial-before-you-dig) or the enclosed documentation.

**As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. Plant Protection will endeavour to provide an initial assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.**

**In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.**

Cadent is a trading name for: Cadent Gas Limited
Registered Office: Ashbrook Court, Prologis Park, Central Boulevard, Coventry CV7 8PE
Registered in England and Wales, No 10080864

National Grid is a trading name for:
National Grid Electricity Transmission plc
Registered Office: 1-3 Strand, London WC2N 5EH
Registered in England and Wales, No 2366977

National Grid is a trading name for:
National Grid Gas Transmission plc
Registered Office: 1-3 Strand, London WC2N 5EH
Registered in England and Wales, No 2006000

## Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near Cadent and/or National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to Cadent Gas Limited, National Grid Electricity Transmission plc (NGET) and National Grid Gas Transmission plc (NGGT) and apparatus. This assessment does **NOT** include:

- Cadent and/or National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to Cadent and/or National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact Plant Protection.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on either the National Grid or Cadent website.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to Cadent and/or National Grid's easements or wayleaves nor any planning or building regulations applications.

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

If you require further assistance please contact the Plant Protection team via e-mail (click here) or via the contact details at the top of this response.

Yours faithfully

Plant Protection Team

# ASSESSMENT

**Affected Apparatus**
The apparatus that has been identified as being in the vicinity of your proposed works is:

- Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)

## Requirements

**BEFORE carrying out any work you must:**

- Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe Cadent and/or National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near Cadent and/or National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at http://www.hse.gov.uk
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

# GUIDANCE

**Excavating Safely - Avoiding injury when working near gas pipes:**
http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf

## Standard Guidance

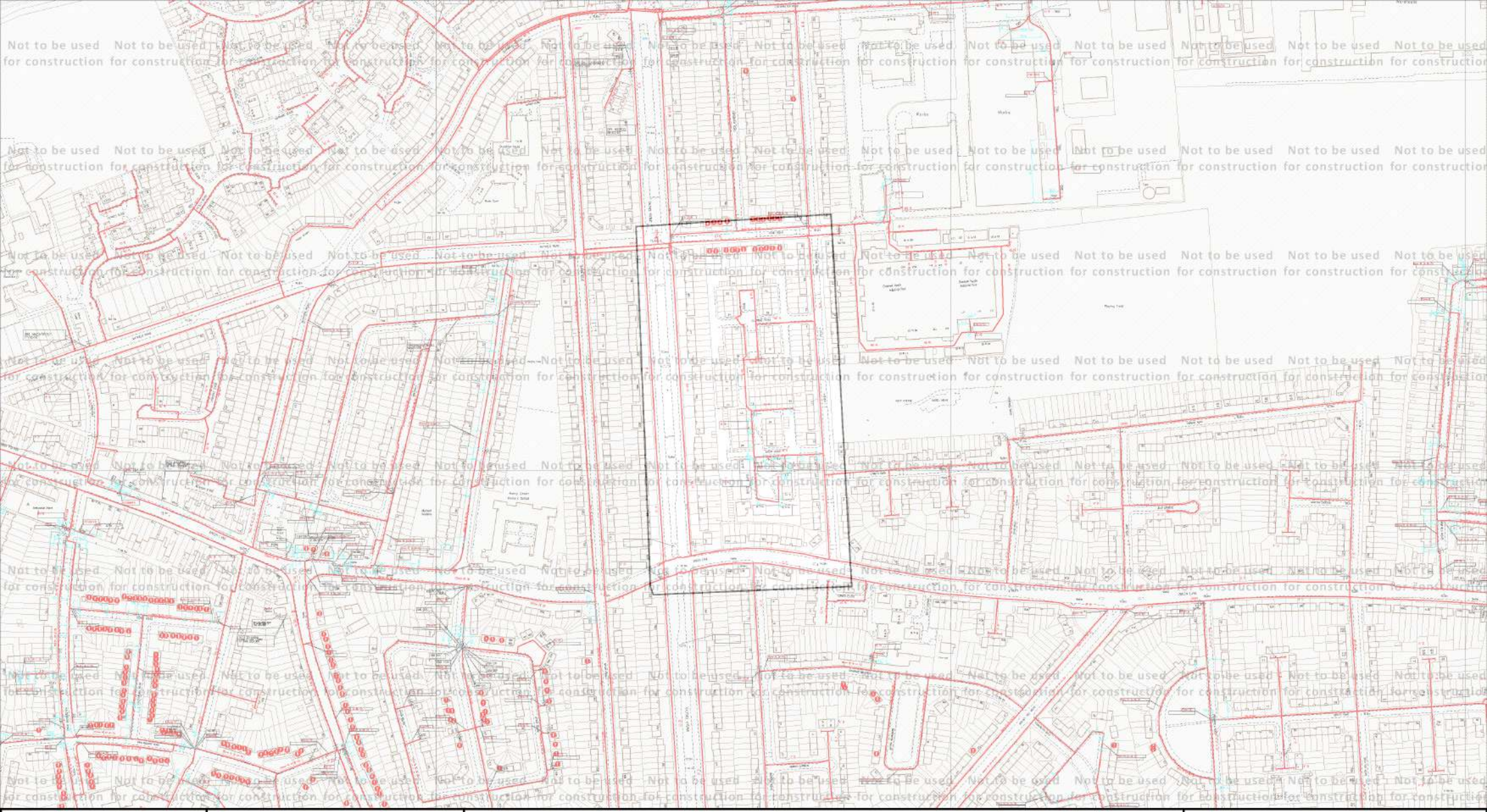
**Essential Guidance document:**
http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=8589934982

**General Guidance document:**
http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=35103

**Excavating Safely in the vicinity of gas pipes guidance (Credit card):**
http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf

**Excavating Safely in the vicinity of electricity cables guidance (Credit card):**
http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf

Copies of all the Guidance Documents can also be downloaded from the National Grid and Cadent websites.




| | | | |
|---|---|---|---|
| ID: NL_GE4A_3SWX_718226 | View extent: 1445m, 785m | Map not to be used for construction | Map 1 of 1 (GAS) |
| USER: David Haigh | LP MAINS<br>MP MAINS<br>IP MAINS<br>LHP MAINS<br>NHP MAINS | This plan shows those pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard 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 error 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. | MAPS Plot Server Version 1.11.0 |
| DATE: 04/09/2020 | | | Cadent<br>Your Gas Network |
| DATA DATE: 03/09/2020 | | | Requested by: Apogee Utility Consultants |
| REF: 421487 | 0m — 100m<br>Approximate scale 1:5000<br>on A4 Colour Landscape | | |
| MAP REF: TQ4787<br>CENTRE: 547799, 187064 | | | This plan is reproduced from or based on the OS map by Cadent Gas Limited, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Ordnance Survey Licence number 100024886 |

Some examples of Plant Items:

Valve | Depth of Cover | Syphon | Diameter Change | Material Change | Out of Standard Service

# ENQUIRY SUMMARY

Received Date
04/09/2020

Your Reference
421487

Location
Centre Point: 547799, 187064
X Extent: 211
Y Extent: 371
Postcode: RM8 1TU
Location Description: RM8 1TU

Map Options
Paper Size: A4
Orientation: LANDSCAPE
Requested Scale: 2500
Actual Scale: 1:5000 (GAS)
Real World Extents: 1445m x 785m (GAS)

Recipients
david.haigh@apogeeutilityconsultants.co.uk

Enquirer Details
Organisation Name: Apogee Utility Consultants
Contact Name: David Haigh
Email Address: david.haigh@apogeeutilityconsultants.co.uk
Telephone: 01952 798679 (07860 644367)
Address: 4 Pembroke Drve, College Lane, Wellington, Telford, Shropshire, TF1 3PT

Description of Works
RM8 1TU. RM8 1TU

Enquiry Type
Proposed Works

Activity Type
Utility Works

Work Types
Work Type: Plans Only

| | |
|---|---|
| **From:** | plantenquiryservice@gtc-uk.co.uk |
| **To:** | David Haigh |
| **Subject:** | GTC Plant Enquiry - Ref- 1483690 |
| **Date:** | 04 September 2020 16:26:59 |
| **Attachments:** | 1483690.png<br>GU-DPR-IG-0022 Safe working in the vicinity of utility networks.pdf |

# Warning: GTC Apparatus Exists in This Area

**Our Plant Enquiry Service Ref: 1483690**
**Your Enquiry Ref: 421487**

Dear David,

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

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

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

## N0011711

### Electric

- EN0011711-1_1_of_3 Entire Site.png
- EN0011711-1_2_of_3 Contestable.png
- EN0011711-1_3_of_3 LV Control.png

### Gas

- N0011711-1_1_of_1.png

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

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited
- Independent Power Networks Limited

- Independent Water Networks Limited
- Open Fibre Networks Limited
- Independent Community Heating Limited

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

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

**Important: The area of your proposed works may contain gas mains operating at Medium and Intermediate Pressure tiers or electric cables operating at High Voltage – please refer to the network drawings included with this email. If your proposed works are likely to involve excavation within 10 metres of any of these assets, including but not limited to gas governors and electric substations you MUST inform GTC Plant Enquiries by calling 01359 240363 and quoting your Plant Enquiries Service Reference number.**
**Important: Drawings provided by this service may include utility assets not owned or managed by GTC. Conversely our drawings will NOT display assets from all third parties. It is your responsibility to ensure you have requested information from all utility asset owners.**

**Gas Escape or Damage MUST be reported on 0800 111 999. National Grid / DNGT will attend to make safe and repair.**
**Electricity Network Damage MUST be reported to ENC on 0800 032 6990.**
**Water Network Damage MUST be reported to IWNL on 02920 028 711**
**Fibre Network Damage MUST be reported to IFNL on 0845 051 1669**

**Thank you for using the GTC Plant Enquiries Service.**

**Your sincerely,**

**GTC Plant Enquiry Service**

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

NOTE:
This E-Mail originates from GTC, Synergy House, Woolpit Business Park, Woolpit, Bury St Edmunds, Suffolk, IP30 9UP
VAT Number: GB688 8971 40. Registered No: 029431.

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# SAFE WORKING IN THE VICINITY OF UTILITY NETWORKS

(Refer to the HSE Guidance Document HSG47)

## General

1. It is imperative that all works are carried out in accordance with the guidance provided by the HSE in their document HSG47 "Avoiding Danger from Underground Services", ISBN 0-7176-1744-0. No party should carry out any excavation works or other intrusive works such as piling, blasting or demolition without following the guidance in HSG47.

2. We own gas, electricity, water and fibre apparatus located in the highway, private property and through the countryside. Some plant may be located in land for which a wayleave or easement has been granted & there may be no surface evidence of the presence of apparatus.

3. Ensure that you have obtained detailed plans of existing and proposed gas, electricity water and fibre networks.

4. The position of the networks should be pinpointed as accurately as possible by reference to the plans and by means of a locating device, which has been tested and calibrated within the last twelve months.

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

5. Hand-held power tools can damage buried apparatus and should be used with care until the exact position has been determined. They may only be used to break a paved or concrete surface above the network, unless there are any indications that the network is particularly shallow, in such circumstances, accuracy of plant location is determined and excavation initiated adjacent to the apparatus.

6. No manhole, chamber or other structure should be built over, around or under the network. Such structures, other pipes, ducts and cables should be laid to provide a minimum clearance from the network of 300mm or 1.5 times the diameter of the network, whichever is the greater. No work should be carried out if this minimum clearance cannot be met or which results in a reduction of cover or protection over the network, without first consulting GTC.

7. Where an excavation uncovers a network apparatus the backfill should be adequately compacted, particularly beneath the network, to prevent any settlement, which would subsequently damage the network. Backfill material adjacent to the network should be selected fine material or sand, containing no stones, bricks or lumps of concrete etc. and should be suitably compacted to give comparable support and protection to that provided before excavation. No power compaction should take place until 200mm cover of selected fine fill has been suitably compacted by hand tools.

8. If the road construction is close to the top of the network, GTC should be asked about necessary precautions. The road construction depth should not be reduced without permission from the local Highway Authority.

9. Costs incurred by GTC through direct or consequential damage will be recharged.

**Precautions for Gas Networks**

10. Plans do not always show the presence of gas service pipes (from the gas main to premises) but their existence should be assumed.

11. The depth of cover for gas mains is normally 750mm in carriageways and grass verges and 600mm in footways. The depth of cover for gas services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.

12. Plastic gas pipes should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.

13. The danger created by damaging a gas pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Gas pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a gas pipe.

14. If a gas leak is suspected, the following action should be taken immediately:

    - Remove all people from the immediate vicinity of the escape. If the service connection to a building or the adjacent main has been damaged, warn the occupants to leave the building, and any adjoining building, until it is safe for them to return. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building. Gas leaking from the damage inside or gas travelling along the line of the service connection pipe from outside the building may cause a build-up of gas within the building.
    - Prohibit smoking, and extinguish all naked flames and other sources of ignition i.e. stop excavator and compressor engines within at least 5.0m of the leak.
    - Inform National Grid by dialling **0800 111 999**
    - Remain on site.
    - Assist National Grid staff, Police or Fire Services as requested.

15. Where gas pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the gas pipe or cause excessive loading over the gas pipe then GTC must be consulted.

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

**Precautions for Electricity Networks**

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

27. Occasionally, cables are terminated in the ground by means of a seal, sometimes with external mechanical protection. These "pot ended" or "bottle ended" cables should be treated as live and should not be assumed to be abandoned or disused. They can be difficult to detect with locators even when "live".

28. Using hand held power tools to break up hard surfaces often leads to accidents. Where practicable, such power tools should only be used 500mm or more away from the indicated line of a cable buried in or below a hard surface. Having done so, the cable should then be positively located by careful hand digging under the hard surface. The hard surface should be gradually removed until the cable is exposed. If the cable is not exposed then it must be assumed to be embedded within the surface. Where possible a cable locator should be used as a depth guide down the side of the excavation.

29. Because of the difficulty in confirming depth, hand held power tools should never be used over the cable unless either:

    - the cable has already been exposed by digging under the surface to be broken out and it is at a safe depth (at least 300mm) below the bottom of the hard surface material; or
    - physical precautions have been taken to prevent the tool striking the cable.

30. Excavating close to electricity cables buried in concrete is dangerous and should not be undertaken unless the cable(s) have been isolated. For this reason alone electricity cables should not be buried in concrete.

31. Using mechanical means to break up concrete can cause damage to cables and if the cable is live, anyone present is likely to be injured.

32. Where mechanical excavators are used in the possible vicinity of underground cables, the work should be arranged so that damage to cables is avoided so far as is reasonably practicable and so that everyone is kept well clear of the excavator bucket while it is digging. Drivers should have been instructed to stay in the cab if a cable is struck. If they have to leave the cab, they should jump clear. If drivers climb down, they may be electrocuted. When a cable is struck, a watch should be kept on the machine and no one should go down into the excavation or approach the mechanical excavator or the cable until GTC are contacted and arranged for the damaged cable to be made safe.

33. Where cables have been exposed:

    - any damage should be reported to GTC immediately on **0800 032 6990** and work should not be undertaken in the vicinity of a damaged cable until GTC has investigated its condition;
    - for more than 1.0m and they cross a trench, support should be provided. If the exposed cable length is shorter than 1.0m support should still be considered if joints have been exposed or the cable appears otherwise vulnerable to damage. Where advice and help is needed contact GTC;

- Suitable precautions should be taken to prevent damage from on-going work in the excavation. This may involve for example the use of physical means (e.g. timber boards, sandbags etc) to prevent mechanical damage. Materials or equipment which could damage or penetrate the outer sheath of the cable should not be used. Cables lying in the bottom of an excavation are particularly vulnerable and should be protected by nail free wooden planks, troughing or other suitable means;
- cables should not be moved aside unless the operation is supervised by GTC;
- Precautions should be taken to prevent access by members of the public.

34. GTC should be consulted if it is intended to carry out any of the following activities:
    - using explosives within 30m of plant or substations piling or boring within 15m of electric plant
    - excavating within 10m of a substation
    - carrying out nearby deep excavations
    - working near our HV plant.

**Precautions for Water Networks**

35. Plans do not always show the presence of water service pipes (from the water main to premises) but their existence should be assumed.

36. The depth of cover for water mains is normally 750mm in carriageways and grass verges and 750mn footways. The depth of cover for water services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.

37. Water mains should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.

38. The danger created by damaging a water pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Water pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a water pipe.

39. If a water leak is suspected, the following action should be taken immediately:
    - Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building.
    - Shut down all working plant and machinery in the vicinity of the damage

- Inform IWNL by dialling **02920 028 711**.
- Remain on site.
- Do not attempt to make a repair.
- Assist GTC, approved contractors and Police or Fire Services as requested.

40. Where water pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the water pipe or cause excessive loading over the water pipe then GTC must be consulted.

41. No concrete or other hard material should be placed or left under or adjacent to any water pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a water pipe.

42. Where an excavation uncovers a water pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.

43. Pipe restraints or thrust blocks close to water mains should never be removed.

44. Anyone who carries out work near underground water plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to water pipes should be made.

45. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.

46. GTC should be consulted if it is intended to carry out any of the following activities:
    - using explosives within 30m of plant
    - piling or boring within 15m of water plant
    - excavating within 10m of water asset structures
    - reducing the cover or protection of a water main or service
    - carrying out nearby deep excavations

**Precautions for Fibre Networks**

47. Plans may not always show the presence of fibre ducts but their existence should be assumed if GTC advise they have fibre services deployed in the given area. Any planned excavation work should only proceed with due care and attention.

48. Chambers with IFNL marked lids can be used as an onsite indictor that GTC have fibre plant deployed in a given area however an exclusion of their presence does not necessarily mean there is no plant present.

49. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried fibre duct. Even if no ducts are shown on plans there may still be ducts present which could have live fibre service installed. A close watch should be kept for any signs which could indicate duct presence such as marker tape. Any marker which is disturbed by our excavations must be replaced once work is completed.

50. The depth of cover for fibre duct is normally 350mm in footways and grass verges, 600mm in carriageways and 1000mm in agricultural deployments. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.

51. Fibre ducts should be located by hand digging before mechanical excavation begins. When the positions and depth of the ducts have been determined, work can proceed. Even then, digging should still proceed with care as there may be other ducts adjacent or lower down.

52. If fibre duct damage is suspected, the following action should be taken immediately:

    - Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage at the point of impact. For example, damage to a fibre connection outside the building may result in further, unseen damage to the connection inside the building.
    - Shut down all working plant and machinery in the vicinity of the damage
    - Inform IFNL NOC immediately on **0845 051 1669**.
    - Remain on site.
    - Do not attempt to make a repair.

53. Where fibre ducts cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress on the duct. For ducts parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the duct from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the fibre duct or cause excessive loading over the fibre duct then GTC must be consulted.

54. No concrete or other hard material should be placed or left under or adjacent to any fibre duct as this can cause damage to the duct at a later date. Any backfill should comply with the requirements of NRSWA. Concrete backfill should not be used within 300mm of a fibre duct.

55. Anyone who carries out work near underground fibre plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to fibre ducts should be made.

56. Where fibre ducts have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.

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

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

**NOTE: All MSDB's fitted with fuses, and all SNE cut-outs fed from MSDB's fitted with red heads unless otherwise stated.**

| Rev | Revision Note | Date | Drawn by | Approved |
|---|---|---|---|---|
| 2-1 | As-Laid added, 576375 | 06/01/11 | ST | N/A |
| 2-2 | As-Laid added, 578574 | 18/01/11 | ST | N/A |
| 2-3 | As-Laid added, 580188, 581003 | 27/01/11 | ST | N/A |
| 2-4 | LV Control data added (LV1009) | 02/02/11 | PW | MF |
| 2-5 | As-Laid added, 582197 | 18/02/11 | ST | N/A |
| 2-6 | As-Laid added, 582749 | 03/03/11 | ST | N/A |
| 2-7 | LRC data added LRC1179 | 15/03/11 | PW | MF |
| 2-8 | LRC data added LRC1185 | 16/03/11 | TD | MF |
| 2-9 | As-Laid added, 585189 | 05/04/11 | TD | N/A |
| 3-0 | TBS added | 21/04/11 | PW | SA |
| 3-1 | As laid added, 584328 | 04/05/11 | AH | N/A |
| 3-2 | As laid added, 587921 | 20/05/11 | TD | N/A |
| 3-3 | As laid added, 948593 | 10/08/11 | JW | N/A |
| 3-4 | As laid added, 590313, 592099 | 28/07/11 | SG | N/A |
| 3-5 | LRC data added, LV1858 | 26/08/11 | JM | MF |
| 3-6 | As Laid data added, Invoice 596976 | 17/11/11 | JM | N/A |
| 3-7 | As laid added invoice 594906 | 23/11/11 | EW | N/A |
| 3-8 | LRC data added LRC 2541 | 31/01/12 | CB | MF |
| 3-9 | As-Laid Data Added, Services Invoice:602143 | 06/02/12 | MC | N/A |
| 3-10 | As Laid added, 603524 | 29/02/12 | SN | N/A |
| 4-0 | As-Laid Data Added, Services Invoice:603941 | 02/03/12 | MC | N/A |
| 4-1 | As-Laid Data Added from Work Request 61440 | 19/03/12 | JB | N/A |
| 4-2 | As-Laid added, Invoice 606117 | 25/04/12 | VM | N/A |
| 4-3 | Pump station added near courtyard 3 | 19/05/14 | NN | JD |
| 4-4 | LRC data addedfrom LV 9591 | 20/08/14 | KW | N/A |
| 4-5 | LRC data addedfrom LV 11920 | 22/01/15 | MS | N/A |
| 4-6 | As-Laid Data Added from Work Request 173530 Part Processed | 04/02/15 | HS | N/A |
| 4-7 | As Laid Data added from Invoice No. 31000 | 15/12/16 | JAB | N/A |
| 4-8 | Substation Name Added | 10/01/17 | BGO | N/A |

| FLATS 17-32<br>16 DOM, 3øL/I,<br>24WAY MSDB LOCATED IN COMMUNAL CUPBOARD ON GROUND FLOOR | | |
|---|---|---|
| PLOT | PHASE | SNE CUT-OUTS & METER BOARDS IN COMMUNAL CUPBOARD ON |
| 17 | BK | GROUND FLOOR |
| 18 | BR | GROUND FLOOR |
| 19 | GY | GROUND FLOOR |
| 20 | BK | GROUND FLOOR |
| 21 | BR | FIRST FLOOR |
| 22 | GY | FIRST FLOOR |
| 23 | BK | FIRST FLOOR |
| 24 | BR | FIRST FLOOR |
| 25 | GY | 2ND FLOOR |
| 26 | BK | 2ND FLOOR |
| 27 | BR | 2ND FLOOR |
| 28 | GY | 2ND FLOOR |
| 29 | BK | 3ND FLOOR |
| 30 | BR | 3ND FLOOR |
| 31 | GY | 3ND FLOOR |
| 32 | BK | 3ND FLOOR |
| LL | BK, BR, GY | GROUND FLOOR |

| FLATS 33-44<br>12 DOM, 3øL/I,<br>15WAY MSDB LOCATED IN COMMUNAL CUPBOARD ON GROUND FLOOR | | |
|---|---|---|
| PLOT | PHASE | SNE CUT-OUTS & METER BOARDS IN COMMUNAL CUPBOARD ON |
| 33 | BK | GROUND FLOOR |
| 34 | BR | GROUND FLOOR |
| 35 | GY | GROUND FLOOR |
| 36 | BK | GROUND FLOOR |
| 37 | BR | FIRST FLOOR |
| 38 | GY | FIRST FLOOR |
| 39 | BK | FIRST FLOOR |
| 40 | BR | FIRST FLOOR |
| 41 | GY | 2ND FLOOR |
| 42 | BK | 2ND FLOOR |
| 43 | BR | 2ND FLOOR |
| 44 | GY | 2ND FLOOR |
| LL | BK, BR, GY | GROUND FLOOR |

| FLATS 71-82<br>12 DOM, 3øL/I,<br>15 WAY MSDB LOCATED IN COMMUNAL CUPBOARD ON GROUND FLOOR | | |
|---|---|---|
| PLOT | PHASE | SNE CUT-OUTS & METER BOARDS IN COMMUNAL CUPBOARD ON |
| 71 | BK | GROUND FLOOR |
| 72 | BR | GROUND FLOOR |
| 73 | GY | GROUND FLOOR |
| 74 | BK | GROUND FLOOR |
| 75 | BR | FIRST FLOOR |
| 76 | GY | FIRST FLOOR |
| 77 | BK | FIRST FLOOR |
| 78 | BR | FIRST FLOOR |
| 79 | GY | 2ND FLOOR |
| 80 | BK | 2ND FLOOR |
| 81 | BR | 2ND FLOOR |
| 82 | GY | 2ND FLOOR |
| LL | BK, BR, GY | GROUND FLOOR |

| FLATS 206-221<br>16 DOM, 3øL/I,<br>24WAY MSDB LOCATED IN COMMUNAL CUPBOARD ON GROUND FLOOR | | |
|---|---|---|
| PLOT | PHASE | SNE CUT-OUTS & METER BOARDS IN COMMUNAL CUPBOARD ON |
| 206 | BK | GROUND FLOOR |
| 207 | BR | GROUND FLOOR |
| 208 | GY | GROUND FLOOR |
| 209 | BK | GROUND FLOOR |
| 210 | BR | FIRST FLOOR |
| 211 | GY | FIRST FLOOR |
| 212 | BK | FIRST FLOOR |
| 213 | BR | FIRST FLOOR |
| 214 | GY | 2ND FLOOR |
| 215 | BK | 2ND FLOOR |
| 216 | BR | 2ND FLOOR |
| 217 | GY | 2ND FLOOR |
| 218 | BK | 3ND FLOOR |
| 219 | BR | 3ND FLOOR |
| 220 | GY | 3ND FLOOR |
| 221 | BK | 3ND FLOOR |
| LL | BK, BR, GY | GROUND FLOOR |

HV POC
Refer to plan issued by EDF dated on 16/04/2010

Brick Distribution HV intake Substation with adjoining GTC Substation to EDF Spec. in accordance with our base dwg. (GTC-E-SS-0005) Install 11kV RMU-RN6 - VIP300 close coupled with MU2 metering unit with provision for Talus Unit

Lymington Fields

3 Phase TBS 42 Kva

SSE POC
Point of connection TBS 50kVA
Voltage Drop =5.23%
Ref = TBS62

Courtyard 1
Courtyard 2
Courtyard 3
Courtyard 4
Courtyard 6
Courtyard 9

SHOW HOMES
Sales car park
PUMPING STATION
SUBSTATION
Lymington Road
VALENCE WARD

Proposed equipment for services

PITCH TO BE SHARED WITH PUBLIC OPEN SPACE (TBC BY LPA AND RELEVANT PARTIES)

Pumping Station
Diesel on line
1.5kw rating 3ø
160A Cut-out
Telemetered to MAN

## SUBSTATION FUSES:

| WAY | CABLE | FUSE | PLOTS |
|---|---|---|---|
| W1 | 185mm²LVWF | NO FUSED FITTED (FUTURE USE ONLY) | CABLE LAID FOR FUTURE PLOTS |
| W2 | 185mm²LVWF | 200A | Pumping Station |
| W3 | 185mm²LVWF | 315A | 243, 228, 235 |
| W4 | 185mm²LVWF | 315A | 98, 97, 144 |
| W5 | 185mm²LVWF | 315A | 01, 07, 16, 08, 46 58, 70 |

Street Lighting column in adoptable roads

Street Lighting column in private areas

**Proposed HV Mains**
11kV cables to be laid in pre-excavated trenchs to 600mm cover, provided by the developer (except A - B). Road crossings to be plastic 150mm ripduct, at 750mm cover to the finished level.

**Proposed LV Cables**
LV cables to be laid in pre-excavated trench to 450mm cover, provided by the developer (except A - B). Road crossings to be plastic ripduct sized to accomodate the mains shown on this drawing, at 600mm cover to the finished level.

**Harmonised Mains Cables - Phase Identification**
All cables are to be identified at each footway box. Phases will be shown as BR, BK, GY where **BR** = Brown (Red) / **BK** = Black (Yellow) / **GY** = Grey (Blue).

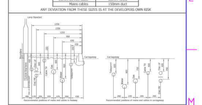
All services are to be ducted. Duct laid by the developer at 450mm cover to the finished level. Road crossings to be ducted with 150mm ripduct.

LEGEND

| | |
|---|---|
| 33kV cable - Proposed | |
| 33kV cable - Existing / Laid | |
| 11kV cable - Proposed | |
| 11kV cable Existing / Laid | |
| LV cable - Proposed | |
| LV cable - Existing / Laid | |
| Service cable | |
| Meter position | |
| Cable Joint | |
| 2 Way Link Box | LINK |
| 4 Way Link Box | LINK |
| Fuse Board (6mm shown) | FUSE |
| Cable with duct | |
| LV Feeder Pillar | |
| Pot end & earth electrode | |
| Street lighting column | |
| Earth | |

| Cable Sizes | Duct Sizes |
|---|---|
| 95mm service cable | 90mm Multi |
| Mains cables | 150mm duct |

ANY DEVIATION FROM THESE SIZES IS TO THE DEVELOPERS OWN RISK



This plan shows those cables owned by Electricity Networks Company Ltd. Information regarding the presence of any other utility apparatus is not guaranteed present in this area. Information with regard to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. No liability of any kind whatsoever is accepted by the company, it's agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HSE publication HSG47 must be employed to verify and prove position of cables, services and other equipment on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (including their contractors) working in the vicinity of the apparatus shown on this plan. When the main has been laid it becomes the responsibility of the developer to ensure its protection, therefore backfilling should be carried out as soon as possible. Any damage or theft of any item once delivered to site is the responsibility of the developer. Replacement and repair, including administrative costs will be fully recharged to the developer, landowner or their contractor responsible.
It will be the developer's responsibility to recover the costs from the third parties.

This electrical network design has been carried out by :


Engineering Manager
The Gas Transportation Company Ltd
Wyvale Business Park
Bury St Edmunds
**Suffolk**
**IP30 9UP**
Tel : 01359 240363
Fax : 01359 244398
www.gtc-uk.co.uk


All cables and equipment used on this design are to be in accordance with GRI standards.

© Electricity Networks Company Ltd

| | |
|---|---|
| Drawing Scale : | 1:500 |
| O.S.REF : | 547868,187076 |
| Network Number : | N0011711-1 |
| Project Number : | |
| Drawing Number : | EN0011711-1_R4-8_1_of_3(GTC Network) |
| Developer : | Countryside Properties |
| Location : | Lymington Fields<br>Dagenham<br>Essex<br>RM8 |

THIS DRAWING SHOWS:

GTC NETWORK
CONTESTABLE
STREETLIGHTS

SHEET SIZE A0

N

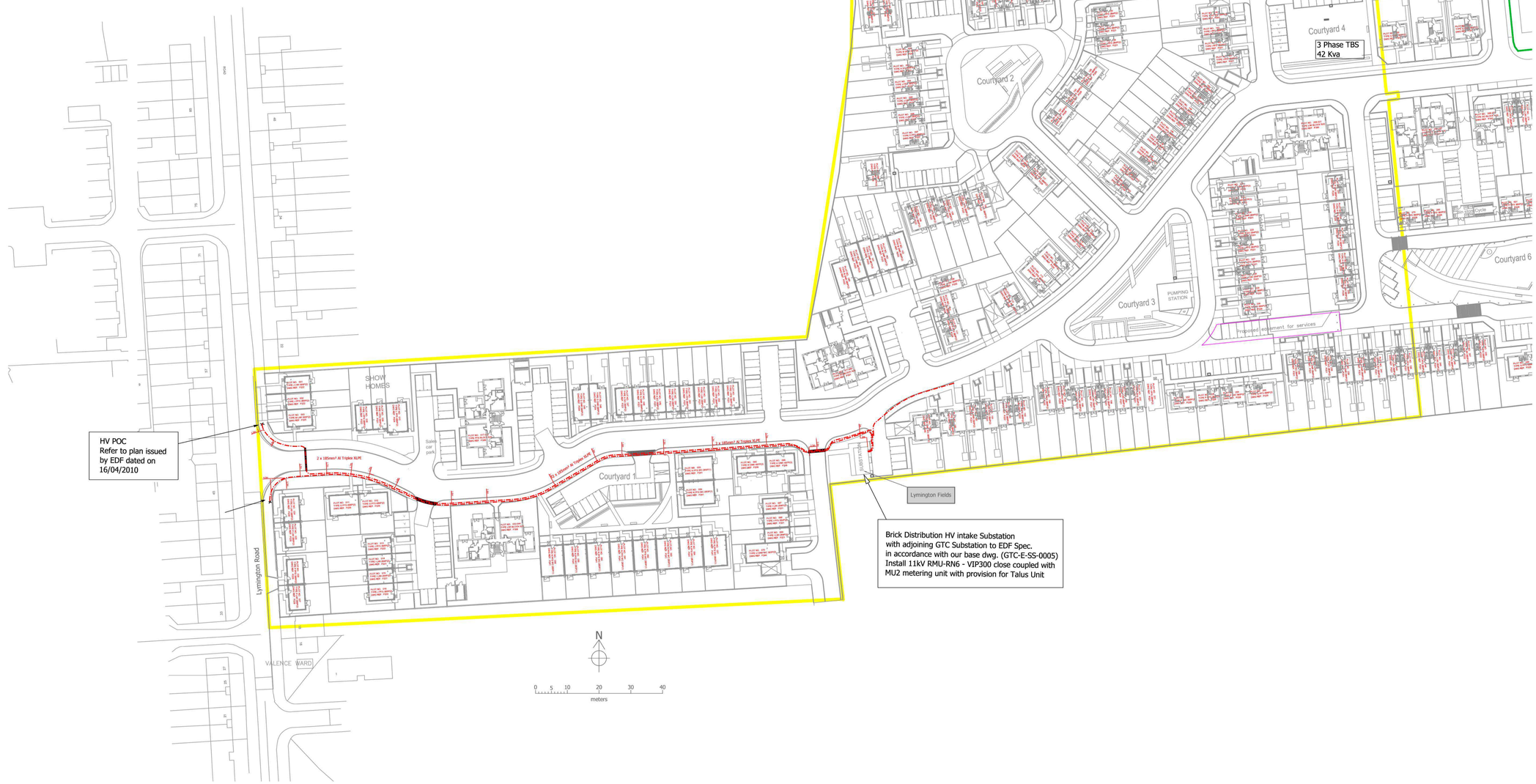
0 5 10 20 30 40
meters

QF0363 Electric Network Drawing, Size A0, Rev 02

GTC Plant Enquiry. Our Ref 1483690, Your Ref 421487 generated for david.haigh@apogeeutilityconsultants.co.uk at 04/09/2020 16:26:44. This drawing is reproduced from our records archive at the time of enquiry.

APPROVED FOR CONSTRUCTION

| Rev | Revision Note | Date | Drawn by | Approved |
|---|---|---|---|---|
| 2-1 | As-Laid added, 576375 | 06/01/11 | ST | N/A |
| 2-2 | As-Laid added, 578574 | 18/01/11 | ST | N/A |
| 2-3 | As-Laid added, 580188, 581003 | 27/01/11 | ST | N/A |
| 2-4 | LV Control data added (LV1009) | 02/02/11 | PW | MF |
| 2-5 | As-Laid added, 582197 | 18/02/11 | ST | N/A |
| 2-6 | As-Laid added, 582749 | 03/03/11 | ST | N/A |
| 2-7 | LRC data added LRC1179 | 15/03/11 | PW | MF |
| 2-8 | LRC data added LRC1185 | 16/03/11 | TD | MF |
| 2-9 | As-Laid added, 585189 | 05/04/11 | TD | N/A |
| 3-0 | TBS added | 21/04/11 | PW | SA |
| 3-1 | As laid added, 584328 | 04/05/11 | AH | N/A |
| 3-2 | As laid added, 587921 | 20/05/11 | TD | N/A |
| 3-3 | As laid added, 948593 | 10/06/11 | JW | N/A |
| 3-4 | As laid added, 590313, 592099 | 28/07/11 | SG | N/A |
| 3-5 | LRC data added, LV1858 | 26/08/11 | JM | MF |
| 3-6 | As Laid data added, Invoice 596976 | 17/11/11 | JM | N/A |
| 3-7 | As laid added invoice 594906 | 23/11/11 | EW | N/A |
| 3-8 | LRC data added LRC 2541 | 31/01/12 | CB | MF |
| 3-9 | As-Laid Data Added, Services Invoice:602143 | 06/02/12 | MC | N/A |
| 3-10 | As Laid added, 603524 | 29/02/12 | SN | N/A |
| 4-0 | As-Laid Data Added, Services Invoice:603941 | 02/03/12 | MC | N/A |
| 4-1 | As-Laid Data Added from Work Request 61440 | 19/03/12 | JB | N/A |
| 4-2 | As-Laid added, Invoice 606117 | 25/04/12 | VM | N/A |
| 4-3 | Pump station added near courtyard 3 | 19/05/14 | NN | JD |
| 4-4 | LRC data addedfrom LV 9591 | 20/08/14 | KW | N/A |
| 4-5 | LRC data addedfrom LV 11920 | 22/01/15 | MS | N/A |
| 4-6 | As-Laid Data Added from Work Request 173530 Part Processed | 04/02/15 | HS | N/A |
| 4-7 | As Laid Data added from Invoice No. 31000 | 15/12/16 | JAB | N/A |
| 4-8 | Substation Name Added | 10/01/17 | BGO | N/A |




**Proposed HV Mains**
All HV cables to be laid in pre-excavated trench to 600mm cover, provided by the developer (Detail A - F). Road crossings to be plastic ripduct 150mm ripduct, at 750mm cover to the finished level.

**Proposed LV Cables**
All LV cables to be laid in pre-excavated trench to 450mm cover, provided by the developer (Detail A - F). Road crossings to be plastic ripduct sized to accomodate the mains shown on this drawing, at 600mm cover to the finished level.

**Harmonised Mains Cables - Phase Identification**
For new colour convention mains, the connected phases will be shown as BR, BK, GY where **BR** = Brown (Red) / **BK** = Black (Yellow) / **GY** = Grey (Blue).

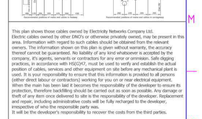
All services are to be ducted. Duct laid by the developer at 450mm cover to the finished level. Road crossings to be ducted with 150mm ripduct.

LEGEND

| | |
|---|---|
| 33kV cable - Proposed | |
| 33kV cable - Existing / Laid | |
| 11kV cable - Proposed | |
| 11kV cable Existing / Laid | |
| LV cable - Proposed | |
| LV cable - Existing / Laid | |
| Service cable | |
| Cable Junction | |
| Cable Joint | |
| 2 Way Link Box | |
| 4 Way Link Box | |
| Sub station (doors shown) | |
| Pillar or feeder | |
| LV Feeder Pillar | |
| Pot end & earth electrode | |
| Street lighting column | |
| Earth | |

| Cable Data | Duct Data |
|---|---|
| 33kV cables | 33kV Ducts |
| 11kV, 6.6kV cables | 11kV, 6.6kV Ducts |

ANY DEVIATION FROM THESE GUIDES IS AT THE DEVELOPERS OWN RISK



This plan shows those cables owned by Electricity Networks Company Ltd.
Electric cables owned by other DNO's or otherwise privately owned, may be present in this area. Information regarding the presence of any such other cables and/or their ownership, may be obtained from the owners. This information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. No liability of any kind whatsoever is accepted by the company, it's agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HSG47, must be used to verify and establish the actual position of mains before any excavation activities begin, using non-invasive techniques where 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 electrical equipment.
When the main has been laid it becomes the responsibility of the developer to ensure its protection, therefore backfilling should be carried out as soon as possible. Any damage or injury to the electricity equipment will be charged to the developer for the cost of reinstatement and repair, including administrative costs will be fully recharged to the developer, irrespective of who the responsible party was.
It will be the developer's responsibility to recover the costs from the third parties.


This electrical network design has been carried out by :
Engineering Manager
The Gas Transportation Company Ltd
Rookdell Business Park
Bury St Edmunds
Suffolk
IP33 3UP
Tel : 01359 240363
Fax : 01359 244398
www.gtc-uk.co.uk


All cables and equipment used on this design are to be in accordance with GB1 standards.

© Electricity Networks Company Ltd

THIS DRAWING SHOWS:

CONTESTABLE

| | |
|---|---|
| Drawing Scale : | 1:500 |
| O.S.REF : | 547868,187076 |
| Network Number : | N0011711-1 |
| Project Number : | |
| Drawing Number : | EN0011711-1_R4-8_2_of_3 (Contestable) |
| Developer : | Countryside Properties |
| Location : | Lymington Fields |
| | Dagenham |
| | Essex |
| | RM8 |

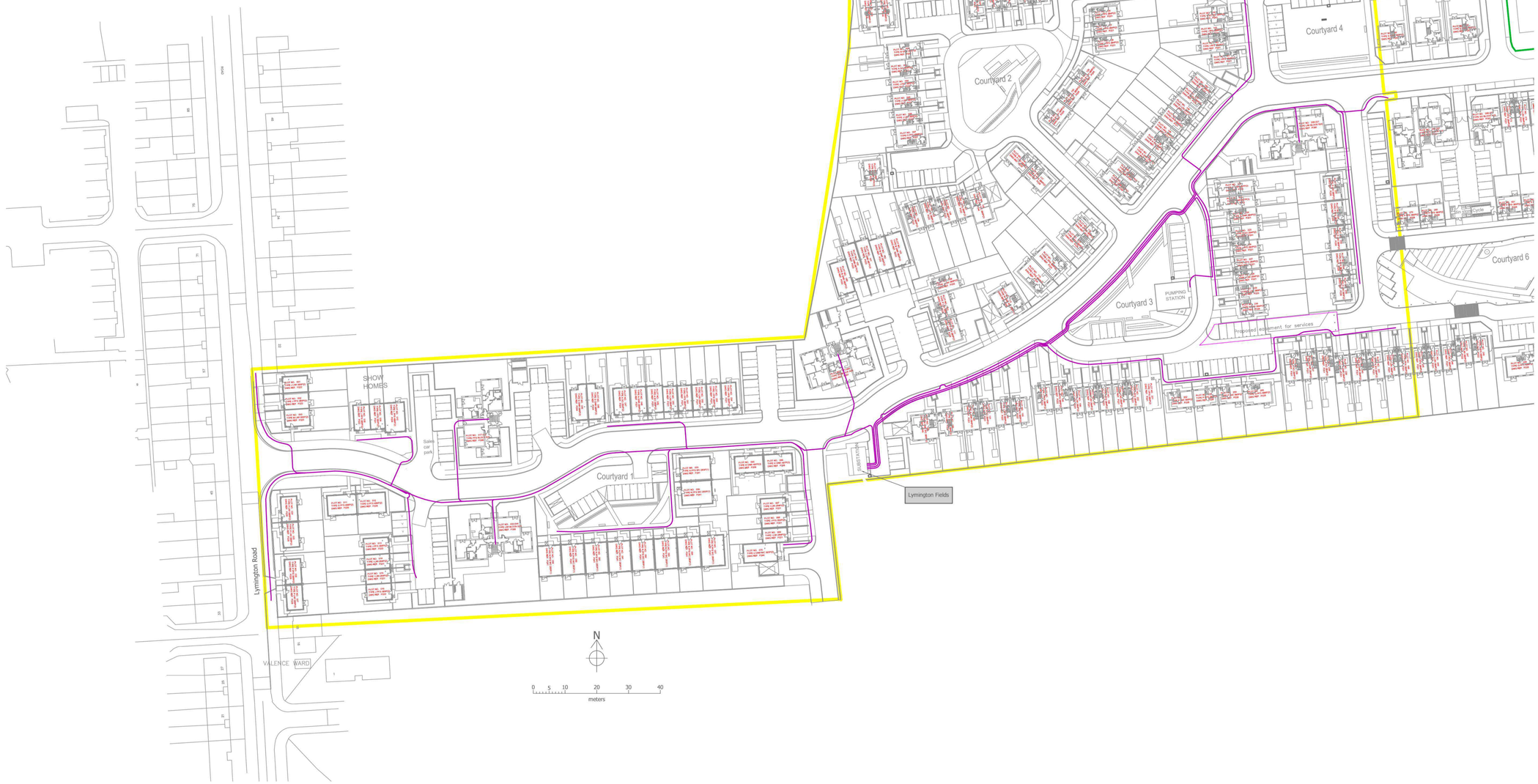
SHEET SIZE A0

QF0363 Electric Network Drawing, Size A0, Rev 02

GTC Plant Enquiry. Our Ref 1483690, Your Ref 421487 generated for david.haigh@apogeeutilityconsultants.co.uk at 04/09/2020 16:26:46. This drawing is reproduced from our records archive at the time of enquiry.

APPROVED FOR CONSTRUCTION

| Rev | Revision Note | Date | Drawn by | Approved |
|---|---|---|---|---|
| 2-1 | As-Laid added, 576375 | 06/01/11 | ST | N/A |
| 2-2 | As-Laid added, 578574 | 18/01/11 | ST | N/A |
| 2-3 | As-Laid added, 580188, 581003 | 27/01/11 | ST | N/A |
| 2-4 | LV Control data added (LV1009) | 02/02/11 | PW | MF |
| 2-5 | As-Laid added, 582197 | 18/02/11 | ST | N/A |
| 2-6 | As-Laid added, 582749 | 03/03/11 | ST | N/A |
| 2-7 | LRC data added LRC1179 | 15/03/11 | PW | MF |
| 2-8 | LRC data added LRC1185 | 16/03/11 | TD | MF |
| 2-9 | As-Laid added, 585189 | 05/04/11 | TD | N/A |
| 3-0 | TBS added | 21/04/11 | PW | SA |
| 3-1 | As laid added, 584328 | 04/05/11 | AH | N/A |
| 3-2 | As laid added, 587921 | 20/05/11 | TD | N/A |
| 3-3 | As laid added, 948593 | 10/06/11 | JW | N/A |
| 3-4 | As laid added, 590313, 592099 | 28/07/11 | SG | N/A |
| 3-5 | LRC data added, LV1858 | 26/08/11 | JM | MF |
| 3-6 | As Laid data added, Invoice 596976 | 17/11/11 | JM | N/A |
| 3-7 | As laid added invoice 594906 | 23/11/11 | EW | N/A |
| 3-8 | LRC data added LRC 2541 | 31/01/12 | CB | MF |
| 3-9 | As-Laid Data Added, Services Invoice:602143 | 06/02/12 | MC | N/A |
| 3-10 | As Laid added, 603524 | 29/02/12 | SN | N/A |
| 4-0 | As-Laid Data Added, Services Invoice:603941 | 02/03/12 | MC | N/A |
| 4-1 | As-Laid Data Added from Work Request 61440 | 19/03/12 | JB | N/A |
| 4-2 | As-Laid added, Invoice 606117 | 25/04/12 | VM | N/A |
| 4-3 | Pump station added near courtyard 3 | 19/05/14 | NN | JD |
| 4-4 | LRC data addedfrom LV 9591 | 20/08/14 | KW | N/A |
| 4-5 | LRC data addedfrom LV 11920 | 22/01/15 | MS | N/A |
| 4-6 | As-Laid Data Added from Work Request 173530 Part Processed | 04/02/15 | HS | N/A |
| 4-7 | As Laid Data added from Invoice No. 31000 | 15/12/16 | JAB | N/A |
| 4-8 | Substation Name Added | 10/01/17 | BGO | N/A |




**Proposed HV Mains**
All HV cables to be laid in pre-excavated trench to 600mm cover, provided by the developer (see R - R1 Road crossings to be plastic ripduct sized to accomodate the mains shown on this drawing, at 450mm cover to the finished level.

**Proposed LV Cables**
All LV cables to be laid in pre-excavated trench to 450mm cover, provided by the developer (see R - R1 Road crossings to be plastic ripduct sized to accomodate the mains shown on this drawing, at 600mm cover to the finished level.

**Harmonised Mains Cables - Phase Identification**
For new colour convention mains, the connected phases will be shown as BR, BK, GY where **BR** = Brown (Red) / **BK** = Black (Yellow) / **GY** = Grey (Blue).

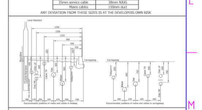
All services are to be ducted. Duct laid by the developer at 450mm cover to the finished level. Road crossings to be ducted with 150mm ripduct.

LEGEND

| | |
|---|---|
| 33kV cable - Proposed | |
| 33kV cable - Existing / Laid | |
| 11kV cable - Proposed | |
| 11kV cable Existing / Laid | |
| LV cable - Proposed | |
| LV cable - Existing / Laid | |
| Service cable | |
| Cable Junction | |
| Cable Joint | |
| 2 Way Link Box | |
| 4 Way Link Box | |
| Sub station (doors shown) | |
| Pole Mounted | |
| LV Feeder Pillar | |
| Pat and & earth electrode | |
| Street lighting column | |
| Earth | |

| Cable Data | Duct Data |
|---|---|
| 33kV, 11kV, LV | 33kV, 11kV |
| 33kV, 11kV, LV | 33kV, 11kV, LV |

ANY DEVIATION FROM THESE GUIDES IS AT THE DEVELOPERS OWN RISK



This plan shows those cables owned by Electricity Networks Company Ltd.
Electric cables owned by other DNO's or otherwise privately owned, may be present in this area. Information regarding the presence of any such cables should be obtained from owners. This information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. No liability of any kind whatsoever is accepted by the company, it's agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HSG47, must be used to verify and establish the actual position of mains before any excavation works are commenced. Hand dig trial holes are essential. 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 electrical equipment.
When the main has been laid it becomes the responsibility of the developer to ensure its protection, therefore backfilling should be carried out as soon as possible. Any damage or failure to the cable during construction, or as a consequence of poor workmanship, subsequent and repair, including administrative costs will be fully recharged to the developer, irrespective of who the responsible party was.
It will be the developer's responsibility to recover the costs from the third parties.


This electrical network design has been carried out by :

Engineering Manager
The Gas Transportation Company Ltd
Rookdell Business Park
Bury St Edmunds
**Suffolk**
**IP33 3QP**

Tel : 01359 240363
Fax : 01359 244398
www.gtc-uk.co.uk


All cables and equipment used on this design are to be in accordance with GB1 standards.

© Electricity Networks Company Ltd

THIS DRAWING SHOWS:

LV CONTROL

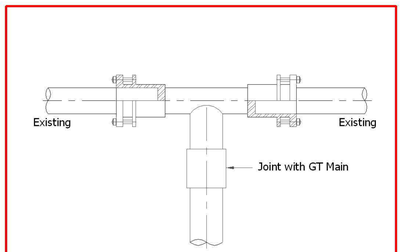
| | |
|---|---|
| Drawing Scale : | 1:500 |
| O.S.REF : | 547868,187076 |
| Network Number : | N0011711-1 |
| Project Number : | |
| Drawing Number : | EN0011711-1_R4-8_3_of_3 (LV Control) |
| Developer : | Countryside Properties |
| Location : | Lymington Fields<br>Dagenham<br>Essex<br>RM8 |

SHEET SIZE A0

QF0363 Electric Network Drawing, Size A0, Rev 02

GTC Plant Enquiry. Our Ref 1483690, Your Ref 421487 generated for david.haigh@apogeeutilityconsultants.co.uk at 04/09/2020 16:26:48. This drawing is reproduced from our records archive at the time of enquiry.

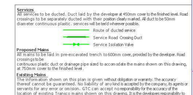
| Rev | Revision Note | Date | Drawn by | Approved |
|---|---|---|---|---|
| 1-0 | Original drawing.dwg no.(J05.0314/D009 Rev Y) | 31/03/10 | NN | AW |
| 1-1 | Variation to mains and services plots 17-32, 33-44, 71-82 and 206-221. | 13/08/10 | CB | AW |
| 1-2 | As-Laid added, ID317 | 28/09/10 | AS | N/A |
| 1-3 | As-Laid added Invoice No's 22077,22079 | 21/10/10 | PW | N/A |
| 1-4 | As laid, invoices 26701, 26930, 26932, 26933 | 09/02/11 | AH | N/A |
| 1-5 | As laid, invoice 25600 | 10/02/11 | AH | N/A |
| 1-6 | As laid, invoices 27240, 27249 | 12/02/11 | AH | N/A |
| 1-7 | As laid, invoice 30127 | 26/04/11 | AH | N/A |
| 1-8 | As laid, invoice 33165, 33167 | 08/06/11 | SG | N/A |
| 1-9 | As laid, invoice 28001 | 16/06/11 | SG | N/A |
| 2-0 | As laid, invoice 21706 | 27/06/11 | SG | N/A |
| 2-1 | As-Laid added, Work Request: 41902 ALL FIGENS LAID | 11/08/11 | AS | N/A |




Insert Pe Tee in Metallic Main

# CSEP Connection Details







This gas network design has been carried out by :

Noel Herbert BEng MIGEM
Engineering Manager
The Gas Transportation Company Ltd
Woodpit Business Park
Bury St Edmunds
Suffolk
IP30 9UP
Tel : 01359 240363
Fax : 01359 244366
www.gtc-uk.co.uk

GIRS Reg. No: IUP 20000105/00170001P

All pipe and fittings used on this design are to be in accordance with PL80,100 and PL90

© GTC Pipelines Ltd 2006

Drawing Scale : 1:500
O.S.REF :547868,187076

gtc pipelines limited

Network Number : N0011711-1
Linked Networks :
Drawing Number : N0011711-1_R2-1_1_of_1

Developer : Countryside Properties
Location : Lymington Fields,
DAGENHAM,
Essex, RM8

SHEET SIZE A0



GTC Plant Enquiry. Our Ref 1483690, Your Ref 421487 generated for david.haigh@apogeeutilityconsultants.co.uk at 04/09/2020 16:26:42. This drawing is reproduced from our records archive at the time of enquiry.

NWG Property Solutions is part of Northumbrian Water Group (NWG)
Northumbrian Water and Essex & Suffolk Water are also part of NWG

421487

CLARIDGE ROAD AND INSKIP ROAD RM8 1TU

# Site Enquiry

# Plan

## We enclose Plan(s) showing the approximate position of the Company apparatus in the vicinity of the area of your enquiry.

1. The company is not responsible for private water supply pipes that connect the property to the public system and does not hold details of these.
2. Individual property services have not been shown although it should be assumed they exist.

**General Notes**

A copy of the standard conditions for working near Company apparatus is enclosed for your information. If you require any further assistance to identify Company apparatus, then do not hesitate to make contact with the Area Office at the contact number shown in the standard conditions.

**Important:-** Please ensure this detail is made available to anyone carrying out any works which may affect out apparatus.

From the 1st October 2011 there may be lateral drains and/or public sewers which are not recorded on the public sewer map.

Signed.



On behalf of Northumbrian Water, Essex & Suffolk Water
Tel : 0370 241 7408

Email : plans@nwl.co.uk
or : assetplans@eswater.co.uk

Date: 18/SEP/2020
Ref: 1150080

Northumbrian Water Group Limited
Registered in England and Wales No 4760441
Registered office: Northumbria House,
Abbey Road, Pity Me, Durham, DH1 5FJ

**STANDARD CONDITIONS FOR WORKING NEAR ESSEX & SUFFOLK WATER APPARATUS**

**THE FOLLOWING CONDITIONS WILL APPLY TO ALL WORKS IN THE VICINITY OF COMPANY APPARATUS**

NWG PROPERTY SOLUTIONS

NWG Property Solutions is part of Northumbrian Water Group (NWG)
Northumbrian Water and Essex & Suffolk Water are also part of NWG

1. Contact should be made with the appropriate Company Area Office prior to the commencement of any work. Arrangements can then be made for the local representative to visit the site and assist in the location and protection of any apparatus affected. The Company must be given two working days notice before any works, including trial holes, are carried out within their easements. Contact **08457 820 999.**

2. The information shown on any plan provided by the Company is for general guidance only. The position of apparatus shown should not be relied upon as being precise. No service pipes are shown on plans.

3. The actual position of apparatus must be established by taking trial holes in all cases. No machine excavation will be permitted within 1 metre side of a main. The actual position of any apparatus must be found by hand excavation.

4. Where Company apparatus is exposed by excavation, support and protection measures are to be agreed on site. Where excavations are taken out below the invert of a main, adequate support is to be provided to prevent collapse of the excavation and subsequent undermining of the main. Special attention is to be given to the compaction of selected backfill material under the main and the company may require the use of lean mix concrete to replace inadequately compacted or unsuitable support backfill material. The compaction of selected backfill material under, around and up to a level of 300mm above the top of any main shall be carried out by hand. Upon completion of operations, any excavation is to be left open until after inspection by Company's representative.

5. No installation of plant may take place within the Company's easements without the prior consent of the Company and with all special conditions and arrangements being finalised before commencement of work.

6. Indiscriminate crossing of the main by heavy construction plant will not be permitted. Where applicable, Crossing Points must be agreed by the Company and any protective measures necessary taken before work begins.

7. Surface boxes and covers should not be removed without obtaining prior consent of the Company. All surface covers to washouts, valves, air valves, hydrants, stopcocks etc., are to be kept clear of obstruction and with free access at all times. If surface boxes or covers have been temporarily removed, positions should be clearly marked.

8. Where the levels of carriageway and footpath surfaces are raised or lowered, then the Company's surface covers must be adjusted as appropriate.

9. No pipes or cables are to be laid or structures placed directly over the line of Company apparatus.

10. Where drains, pipes or cables cross over or under any mains, a minimum clearance of 300mm must be maintained. Where it is necessary for any plant to lay parallel to the pipelines, a minimum distance of 1 metre shall be maintained between the outside of the pipeline and any plant being installed, except in the case of small diameter plant where N.J.U.G 7 dimensions apply. The Company must agree exceptions to these conditions in writing.

11. All crossing of the company's pipelines and easements shall be at right angles where possible. Where skew crossings are necessary, no more than 3 metres of the Company's pipeline shall be exposed at any time.

12. The Company will require three copies of proposal drawings showing the details of any proposed crossing of pipelines above 300mm diameter. The drawings must show the Company's pipelines in relation to the proposed works, to a scale of no less than 1:500 and no work shall commence until the Company has given approval.

13. Where it is necessary to carry out piling works closer than 6m to the Company' apparatus, or to carry out works using plant that is likely to damage the integrity of the Company's apparatus, the Company will require a method statement of the works shall be consulted before work commences.

14. Where the Company's pipeline is protected by a cathodic protection system, the Company will require a suitable joint testing programme to be agreed before the application of any cathodic protection scheme proposed by another authority or utility undertaking. If any bond-wires or test leads associated with the Company's cathodic protection system are damaged, disconnected or found to be in poor condition, the Company should be notified so that repairs can be made.

15. In the case of Trunk mains which cross development sites, no development is to take place within an agreed distance either side of the pipeline. A guide showing the easement widths for the various diameters and depths of pipe is available from Asset Plans.

16. No tree planting or landscaping work is done in close proximity to Company apparatus unless otherwise agreed in writing by the Company. A planting guide is available from Asset Plans.

17. In the event of any damage to any of the Company's plant the Company must be informed immediately. Where any damage occurs to Company apparatus, the appropriate remedial work will be carried out by the Company and charged to the promoter of the works.

18. Every effort should be made to secure the site against vandalism of the Company's plant.

19. A copy of these conditions is to be made available to all Contractors or Sub-Contractors working in the vicinity of Company apparatus.

Issue: Asset Plans. Oct. 02

Northumbrian Water Group Limited
Registered in England and Wales No 4760441
Registered office: Northumbria House,
Abbey Road, Pity Me, Durham, DH1 5FJ




Valves/Regulators

Fittings/Symbols

Storage/Operations

| Network Types | Specific Main Types | Area Types |
|---|---|---|
| Distribution | Abandoned Asbestos | Water Quality |
| Treated | Abandoned | District Metering |
| Raw | Out of Commission | Easement |
| Fire | Private | |
| Supply | Proposed | |

ESSEX&SUFFOLK WATER *living water*

User : DAWSJ1

Date : 08/09/2020

Title : 0000

Map Sheet : TQ4787SE

Centre Point : 547798,187067

The material contained on this plot has been reproduced from an Ordnance Survey map with permission of the controller of H.M.S.O. Crown Copyright Reserved. Licence No. 100022480. The information shown on this plan should be regarded as approximate and is intended for guidance only. No Liability of any kind whatsoever is accepted by Essex & Suffolk Water, it's servants or agents for any omission. The actual position of any mains shown on the plan must be established by taking trial holes in all cases. Essex & Suffolk Water must be given two working days notice of their intention to excavate trial holes. Private connections are not shown but their presence should be anticipated.
WARNING...Where indicated on the plan there could be abandoned asbestos cement materials or shards of pipe. If excavating in the vicinity of these abandoned asbestos cement materials, the appropriate Health & Safety precautions should be taken. Essex & Suffolk Water accepts no liability in respect of claims, costs, losses or other liabilities which arise as the result of the presence of the pipes or any failure to take adequate precautions. Emergency Telephone Number: 0345 782 0999

10 m

# Asset location search

Property Searches

Apogee
Hall Park CourtHall Park Way
TELFORD
TELFORD
TF1 3PT

**Search address supplied** 9
Inskip Road
Dagenham
RM8 1TU

**Your reference** 421487

**Our reference** ALS/ALS Standard/2020_4248177

**Search date** 4 September 2020

**Knowledge of features below the surface is essential for every development**

The benefits of this knowledge not only include ensuring due diligence and avoiding risk, but also being able to ascertain the feasibility of any development.

Did you know that Thames Water Property Searches can also provide a variety of utility searches including a more comprehensive view of utility providers' assets (across up to 35-45 different providers), as well as more focused searches relating to specific major utility companies such as National Grid (gas and electric).

Contact us to find out more.

Thames Water Utilities Ltd
Property Searches, PO Box 3189, Slough SL1 4WW
DX 151280 Slough 13

searches@thameswater.co.uk
www.thameswater-propertysearches.co.uk

0845 070 9148

# Asset location search

Property Searches

**Search address supplied:** 9, Inskip Road, Dagenham, RM8 1TU

Dear Sir / Madam

**An Asset Location Search is recommended when undertaking a site development.**It is essential to obtain information on the size and location of clean water and sewerage assets to safeguard against expensive damage and allow cost-effective service design.

The following records were searched in compiling this report: - the map of public sewers & the map of waterworks. Thames Water Utilities Ltd (TWUL) holds all of these.

This searchprovides maps showing the position, size of Thames Water assets close to the proposed development and also manhole cover and invert levels, where available.

Please note that none of the charges made for this report relate to the provision of Ordnance Survey mapping information. The replies contained in this letter are given following inspection of the public service records available to this company. No responsibility can be accepted for any error or omission in the replies.

You should be aware that the information contained on these plans is current only on the day that the plans are issued. The plans should only be used for the duration of the work that is being carried out at the present time. Under no circumstances should this data be copied or transmitted to parties other than those for whom the current work is being carried out.

Thames Water do update these service plans on a regular basis and failure to observe the above conditions could lead to damage arising to new or diverted services at a later date.

**Contact Us**

If you have any further queries regarding this enquiry please feel free to contact a member of the team on 0845 070 9148, or use the address below:

Thames Water Utilities Ltd
Property Searches
PO Box 3189
Slough
SL1 4WW

Email: searches@thameswater.co.uk
Web: www.thameswater-propertysearches.co.uk

# Asset location search

## Waste Water Services

**Please provide a copy extract from the public sewer map.**

Enclosed is a map showing the approximate lines of our sewers. Our plans do not show sewer connections from individual properties or any sewers not owned by Thames Water unless specifically annotated otherwise. Records such as "private" pipework are in some cases available from the Building Control Department of the relevant Local Authority.

Where the Local Authority does not hold such plans it might be advisable to consult the property deeds for the site or contact neighbouring landowners.

This report relates only to sewerage apparatus of Thames Water Utilities Ltd, it does not disclose details of cables and or communications equipment that may be running through or around such apparatus.

The sewer level information contained in this response represents all of the level data available in our existing records. Should you require any further Information, please refer to the relevant section within the 'Further Contacts' page found later in this document.

For your guidance:

- The Company is not generally responsible for rivers, watercourses, ponds, culverts or highway drains. If any of these are shown on the copy extract they are shown for information only.
- Any private sewers or lateral drains which are indicated on the extract of the public sewer map as being subject to an agreement under Section 104 of the Water Industry Act 1991 are not an ‘as constructed’ record. It is recommended these details be checked with the developer.

## Clean Water Services

**Please provide a copy extract from the public water main map.**

With regard to the fresh water supply, this site falls within the boundary of another water company. For more information, please redirect your enquiry to the following address:

Essex & Suffolk Water
PO Box 292
Durham
DH1 9TXX

# Asset location search

Property Searches

Tel: 0845 782 0111
Fax: 0191 301 6202

For your guidance:

- Assets other than vested water mains may be shown on the plan, for information only.
- If an extract of the public water main record is enclosed, this will show known public water mains in the vicinity of the property. It should be possible to estimate the likely length and route of any private water supply pipe connecting the property to the public water network.

**Payment for this Search**

A charge will be added to your suppliers account.

## Further contacts:

### Waste Water queries

Should you require verification of the invert levels of public sewers, by site measurement, you will need to approach the relevant Thames Water Area Network Office for permission to lift the appropriate covers. This permission will usually involve you completing a TWOSA form. For further information please contact our Customer Centre on Tel: 0845 920 0800. Alternatively, a survey can be arranged, for a fee, through our Customer Centre on the above number.

If you have any questions regarding sewer connections, budget estimates, diversions, building over issues or any other questions regarding operational issues please direct them to our service desk. Which can be contacted by writing to:

Developer Services (Waste Water)
Thames Water
Clearwater Court
Vastern Road
Reading
RG1 8DB

Tel: 0800 009 3921
Email: developer.services@thameswater.co.uk

### Clean Water queries

Should you require any advice concerning clean water operational issues or clean water connections, please contact:

Developer Services (Clean Water)
Thames Water
Clearwater Court
Vastern Road
Reading
RG1 8DB

Tel: 0800 009 3921
Email: developer.services@thameswater.co.uk

# Asset Location Search Sewer Map - ALS/ALS Standard/2020_4248177




The width of the displayed area is 500 m and the centre of the map is located at OS coordinates 547800,187067

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

Based on the Ordnance Survey Map with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

| Manhole Reference | Manhole Cover Level | Manhole Invert Level |
|---|---|---|
| 831I | n/a | n/a |
| 831B | n/a | n/a |
| 9303 | 17.75 | 15.54 |
| 831C | n/a | n/a |
| 7106 | 17.85 | 16.61 |
| 721F | n/a | n/a |
| 7212 | 17.5 | 14.9 |
| 7206 | 17.63 | 15.04 |
| 7208 | 17.66 | 15.21 |
| 7207 | 17.63 | 14.71 |
| 821D | n/a | n/a |
| 821E | n/a | n/a |
| 8106 | 17.89 | 16.69 |
| 8105 | n/a | n/a |
| 8107 | 17.84 | 16.65 |
| 821G | n/a | n/a |
| 821A | n/a | n/a |
| 831H | n/a | n/a |
| 8303 | 17.87 | 14.59 |
| 8202 | 17.93 | 15.38 |
| 8201 | 17.91 | 15.22 |
| 8203 | 17.92 | 14.31 |
| 8101 | 17.5 | 15.56 |
| 821C | n/a | n/a |
| 821F | n/a | n/a |
| 811A | n/a | n/a |
| 821B | n/a | n/a |
| 821E | n/a | n/a |
| 821D | n/a | n/a |
| 811B | n/a | n/a |
| 9202 | 17.86 | 15.41 |
| 921C | n/a | n/a |
| 5202 | 16.64 | 12.51 |
| 531D | n/a | n/a |
| 521B | n/a | n/a |
| 521C | n/a | n/a |
| 5102 | 16.39 | 13.4 |
| 5101 | 16.69 | 13.88 |
| 5203 | 16.94 | 12.75 |
| 5201 | 16.96 | 12.56 |
| 6203 | 17.32 | n/a |
| 6201 | 17.28 | 13.66 |
| 6305 | 17.12 | 13.13 |
| 6202 | 17.27 | 13.61 |
| 6204 | 17.26 | n/a |
| 621D | n/a | n/a |
| 611D | n/a | n/a |
| 611F | n/a | n/a |
| 611G | n/a | n/a |
| 621B | n/a | n/a |
| 711D | n/a | n/a |
| 7116 | 16.18 | 15.54 |
| 8126 | 17.55 | 16.28 |
| 711E | n/a | n/a |
| 7102 | 17.4 | 16.01 |
| 8125 | 17.56 | 15.95 |
| 7124 | 17.41 | 15.44 |
| 8104 | 17.53 | 15.18 |
| 8115 | 17.52 | 15.99 |
| 8103 | 17.26 | 13.97 |
| 8102 | 17.27 | 16.47 |
| 7123 | 17.87 | 15.99 |
| 8111 | 17.72 | 16.41 |
| 7114 | 17.81 | 15.86 |
| 8112 | 17.82 | 16.74 |
| 8114 | 17.63 | 16.79 |
| 8113 | 17.65 | 17 |
| 811D | n/a | n/a |
| 811C | n/a | n/a |
| 7110 | 17.88 | 16.18 |
| 7111 | 17.89 | 16.25 |
| 8108 | 17.89 | 16.96 |
| 7112 | n/a | n/a |
| 8109 | 17.86 | 17.2 |
| 8110 | 17.82 | 16.75 |
| 7107 | 17.93 | 16.34 |
| 7122 | 17.89 | 16.24 |
| 921B | n/a | n/a |
| 921A | n/a | n/a |
| 911C | n/a | n/a |
| 911B | n/a | n/a |
| 911A | n/a | n/a |
| 921E | n/a | n/a |
| 9203 | 17.82 | 14.58 |
| 9201 | 17.83 | 15.65 |
| 611B | n/a | n/a |
| 711G | n/a | n/a |
| 611C | n/a | n/a |
| 7115 | 17.37 | 15.73 |
| 7104 | 17.15 | 11.54 |
| 7103 | 17.11 | 14.44 |

| Manhole Reference | Manhole Cover Level | Manhole Invert Level |
|---|---|---|
| 7113 | 1.76 | 1.01 |
| 7101 | 17.38 | 13.16 |
| 7109 | 17.85 | 16.5 |
| 7108 | 17.63 | 16.37 |
| 711F | n/a | n/a |
| 7211 | 17.54 | 14.36 |
| 721E | n/a | n/a |
| 7210 | 17.32 | 15.22 |
| 7205 | 17.34 | 11.92 |
| 7209 | 17.28 | 15.05 |
| 7204 | 17.32 | 14.47 |
| 721C | n/a | n/a |
| 721A | n/a | n/a |
| 721B | n/a | n/a |
| 7203 | 17.47 | 13.59 |
| 621C | n/a | n/a |
| 721D | n/a | n/a |
| 7202 | 17.33 | 15.55 |
| 7201 | 17.36 | 12.42 |
| 621A | n/a | n/a |
| 731I | n/a | n/a |
| 731J | n/a | n/a |
| 7006 | 17.23 | 15.85 |
| 7009 | 17.01 | 16.12 |
| 7007 | 17.09 | 15.5 |
| 7119 | 17.25 | 16.36 |
| 8013 | 16.8 | 15.26 |
| 8120 | n/a | n/a |
| 8011 | 17.01 | 15.63 |
| 8009 | 17.05 | 15.89 |
| 8010 | 16.85 | 15.6 |
| 8016 | 16.87 | 14.78 |
| 8121 | 17.18 | 15.84 |
| 8118 | 17.57 | 15.69 |
| 8119 | 17.53 | 16.33 |
| 8122 | 17.13 | 16.47 |
| 8017 | 16.94 | 15.22 |
| 8014 | 16.85 | 16.17 |
| 8124 | 17.14 | 16.46 |
| 8012 | 16.85 | 16.16 |
| 8008 | 17.05 | 16.33 |
| 8123 | 17.18 | 16.35 |
| 8018 | 16.94 | 15.87 |
| 801D | n/a | n/a |
| 801F | n/a | n/a |
| 801B | 16.65 | 14.1 |
| 801C | 16.651 | 13.42 |
| 801A | 16.86 | 14.27 |
| 901D | 17.06 | 14.33 |
| 901M | 17.07 | 13.7 |
| 501A | n/a | n/a |
| 501C | n/a | n/a |
| 501B | n/a | n/a |
| 6101 | 16.99 | n/a |
| 6001 | 16.07 | 13.8 |
| 611E | n/a | n/a |
| 601C | n/a | n/a |
| 601B | n/a | n/a |
| 601D | n/a | n/a |
| 601A | n/a | n/a |
| 601L | n/a | n/a |
| 601K | n/a | n/a |
| 601J | n/a | n/a |
| 701C | n/a | n/a |
| 701B | n/a | n/a |
| 7002 | 16.68 | 11.04 |
| 7105 | 17.3 | 13.53 |
| 7003 | 16.78 | 12.73 |
| 7001 | 16.66 | 13.69 |
| 711A | n/a | n/a |
| 701A | n/a | n/a |
| 711B | n/a | n/a |
| 7120 | 17.21 | 15.34 |
| 7008 | 17.42 | 14.88 |
| 7011 | 16.76 | 14.37 |
| 7118 | 17.25 | 16.6 |
| 7005 | 17.29 | 16.56 |
| 711C | n/a | n/a |
| 7121 | 17.28 | 16.41 |
| 901N | n/a | n/a |
| 901C | 17.3 | 14.41 |
| 901G | 17.28 | 13.88 |
| 901I | 17.52 | 15.49 |
| 901H | 17.45 | 15.74 |
| 9902 | 16.26 | 13.56 |
| 9901 | 16.28 | 14.11 |
| 901J | 17.55 | 16 |
| 901F | 17.36 | 14.07 |
| 901B | 17.39 | 14.5 |
| 901K | 17.2 | 15.7 |
| 901L | 17.3 | 15.82 |
| 901E | 17.15 | 14.26 |
| 901A | 17.13 | 14.58 |

| Manhole Reference | Manhole Cover Level | Manhole Invert Level |
|---|---|---|
| 0003 | 16.67 | 14.78 |
| 001A | n/a | n/a |
| 001N | 17.2 | 15.55 |
| 001O | 17.08 | 15.49 |
| 091D | n/a | n/a |
| 001J | 17.17 | 15.84 |
| 991A | n/a | n/a |
| 981K | n/a | n/a |
| 981J | n/a | n/a |
| 981F | n/a | n/a |
| 981G | n/a | n/a |
| 981I | n/a | n/a |
| 981H | n/a | n/a |
| 991F | n/a | n/a |
| 9803 | 16.01 | 13.35 |
| 981A | n/a | n/a |
| 9804 | 16 | 12.9 |
| 991E | n/a | n/a |
| 991D | n/a | n/a |
| 981B | n/a | n/a |
| 981C | n/a | n/a |
| 9805 | 16.34 | 14.28 |
| 981D | n/a | n/a |
| 981E | n/a | n/a |
| 081F | n/a | n/a |
| 081E | n/a | n/a |
| 081B | n/a | n/a |
| 081A | n/a | n/a |
| 091A | n/a | n/a |
| 091F | n/a | n/a |
| 7911 | 14.7 | 12.99 |
| 7913 | 14.6 | 12.19 |
| 781A | n/a | n/a |
| 891G | n/a | n/a |
| 891F | n/a | n/a |
| 881G | n/a | n/a |
| 8908 | 14.76 | 12.46 |
| 881E | n/a | n/a |
| 8910 | 14.69 | n/a |
| 8803 | 14.6 | 12.84 |
| 881B | n/a | n/a |
| 881C | n/a | n/a |
| 891E | n/a | n/a |
| 881H | n/a | n/a |
| 891D | n/a | n/a |
| 891C | n/a | n/a |
| 891I | n/a | n/a |
| 891H | n/a | n/a |
| 891J | n/a | n/a |
| 881F | n/a | n/a |
| 881I | n/a | n/a |
| 8911 | 15.22 | 12.86 |
| 8912 | 15.17 | 12.63 |
| 881J | n/a | n/a |
| 891A | n/a | n/a |
| 9903 | 15.46 | 13.79 |
| 991C | n/a | n/a |
| 981L | n/a | n/a |
| 7901 | 15.91 | 14.09 |
| 8905 | 15.77 | 14.14 |
| 8904 | 15.45 | 14.54 |
| 8907 | 15.97 | 13.47 |
| 8906 | 16.02 | 12.91 |
| 8901 | 15.97 | 14.97 |
| 8903 | 16.4 | 15.14 |
| 8902 | 15.96 | 15.11 |
| 8007 | 16.49 | 14.03 |
| 8006 | 16.46 | 13.44 |
| 8019 | 16.45 | 14.61 |
| 8004 | 16.24 | 13.18 |
| 8005 | 16.19 | 15.17 |
| 8003 | 16.28 | 13.69 |
| 8025 | 16.7 | 14.3 |
| 801G | n/a | n/a |
| 8002 | 16.3 | 13.15 |
| 8024 | 16.72 | 14.51 |
| 801E | n/a | n/a |
| 7010 | 16.75 | 15.62 |
| 801H | n/a | n/a |
| 8023 | 16.75 | 14.5 |
| 8022 | 16.75 | 14.7 |
| 8021 | 16.78 | 14.88 |
| 8015 | 16.8 | 15.14 |
| 8001 | 16.55 | 13.87 |
| 581F | n/a | n/a |
| 581A | n/a | n/a |
| 581D | n/a | n/a |
| 5803 | 13.55 | 11.68 |
| 681D | n/a | n/a |
| 681C | n/a | n/a |
| 681E | n/a | n/a |
| 6805 | 14.08 | 12.14 |
| 6804 | 14.02 | 11.65 |

| Manhole Reference | Manhole Cover Level | Manhole Invert Level |
|---|---|---|
| 6802 | 13.85 | 12.15 |
| 6803 | 14.04 | 12.5 |
| 6801 | 13.83 | 11.66 |
| 7802 | 13.44 | 9.5 |
| 7801 | 13.85 | 11.81 |
| 7803 | 13.79 | 11.68 |
| 7804 | 13.5 | 11.64 |
| 591C | n/a | n/a |
| 5807 | 13.99 | 11.35 |
| 5809 | 13.98 | 12.12 |
| 691G | n/a | n/a |
| 681A | n/a | n/a |
| 691A | n/a | n/a |
| 691B | n/a | n/a |
| 681B | n/a | n/a |
| 6002 | 15.52 | n/a |
| 691E | n/a | n/a |
| 691F | n/a | n/a |
| 601E | n/a | n/a |
| 691C | n/a | n/a |
| 691D | n/a | n/a |
| 7908 | 13.97 | 13.36 |
| 7805 | 13.94 | 12.57 |
| 7903 | 15.57 | 11.63 |
| 7907 | 14.14 | 10.13 |
| 7004 | 16.14 | 12.74 |
| 7905 | 15.09 | 12.26 |
| 7909 | 14.21 | 11.91 |
| 7906 | n/a | n/a |
| 7904 | 15.59 | 12.83 |
| 7910 | 14.07 | 11.94 |
| 791A | n/a | n/a |
| 7912 | 14.3 | 12.77 |
| 7902 | 15.72 | 13.75 |
| 781B | n/a | n/a |
| 581E | n/a | n/a |
| 5001 | 15.04 | 12.83 |

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

# ALS Sewer Map Key

## Public Sewer Types (Operated & Maintained by Thames Water)

**Foul:** A sewer designed to convey waste water from domestic and industrial sources to a treatment works.

**Surface Water:** A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.

**Combined:** A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.

Trunk Surface Water

Trunk Foul

Storm Relief

Trunk Combined

Vent Pipe

Bio-solids (Sludge)

Proposed Thames Surface Water Sewer

Proposed Thames Water Foul Sewer

Gallery

Foul Rising Main

Surface Water Rising Main

Combined Rising Main

Sludge Rising Main

Proposed Thames Water Rising Main

Vacuum

## Sewer Fittings

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

Air Valve

Dam Chase

Fitting

Meter

Vent Column

## Operational Controls

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

Control Valve

Drop Pipe

Ancillary

Weir

## End Items

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

Outfall

Undefined End

Inlet

## Other Symbols

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

Public/Private Pumping Station

Change of characteristic indicator (C.O.C.I.)

Invert Level

Summit

**Areas**

Lines denoting areas of underground surveys, etc.

Agreement

Operational Site

Chamber

Tunnel

Conduit Bridge

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

Foul Sewer

Surface Water Sewer

Combined Sewer

Gulley

Culverted Watercourse

Proposed

Abandoned Sewer

**Notes:**

1) All levels associated with the plans are to Ordnance Datum Newlyn.
2) All measurements on the plans are metric.
3) Arrows (on gravity fed sewers) or flecks (on rising mains) indicate direction of flow.
4) Most private pipes are not shown on our plans, as in the past, this information has not been recorded.
5) 'na' or '0' on a manhole level indicates that data is unavailable.
6) The text appearing alongside a sewer line indicates the internal diameter of the pipe in milimetres. Text next to a manhole indicates the manhole reference number and should not be taken as a measurement. If you are unsure about any text or symbology present on the plan, please contact a member of Property Insight on 0845 070 9148.

## Terms and Conditions

All sales are made in accordance with Thames Water Utilities Limited (TWUL) standard terms and conditions unless previously agreed in writing.

1. All goods remain in the property of Thames Water Utilities Ltd until full payment is received.
2. Provision of service will be in accordance with all legal requirements and published TWUL policies.
3. All invoices are strictly due for payment 14 days from due date of the invoice. Any other terms must be accepted/agreed in writing prior to provision of goods or service, or will be held to be invalid.
4. Thames Water does not accept post-dated cheques-any cheques received will be processed for payment on date of receipt.
5. In case of dispute TWUL`s terms and conditions shall apply.
6. Penalty interest may be invoked by TWUL in the event of unjustifiable payment delay. Interest charges will be in line with UK Statute Law 'The Late Payment of Commercial Debts (Interest) Act 1998'.
7. Interest will be charged in line with current Court Interest Charges, if legal action is taken.
8. A charge may be made at the discretion of the company for increased administration costs.

A copy of Thames Water's standard terms and conditions are available from the Commercial Billing Team (cashoperations@thameswater.co.uk).

We publish several Codes of Practice including a guaranteed standards scheme. You can obtain copies of these leaflets by calling us on 0800 316 9800

If you are unhappy with our service you can speak to your original goods or customer service provider. If you are not satisfied with the response, your complaint will be reviewed by the Customer Services Director. You can write to her at: Thames Water Utilities Ltd. PO Box 492, Swindon, SN38 8TU.

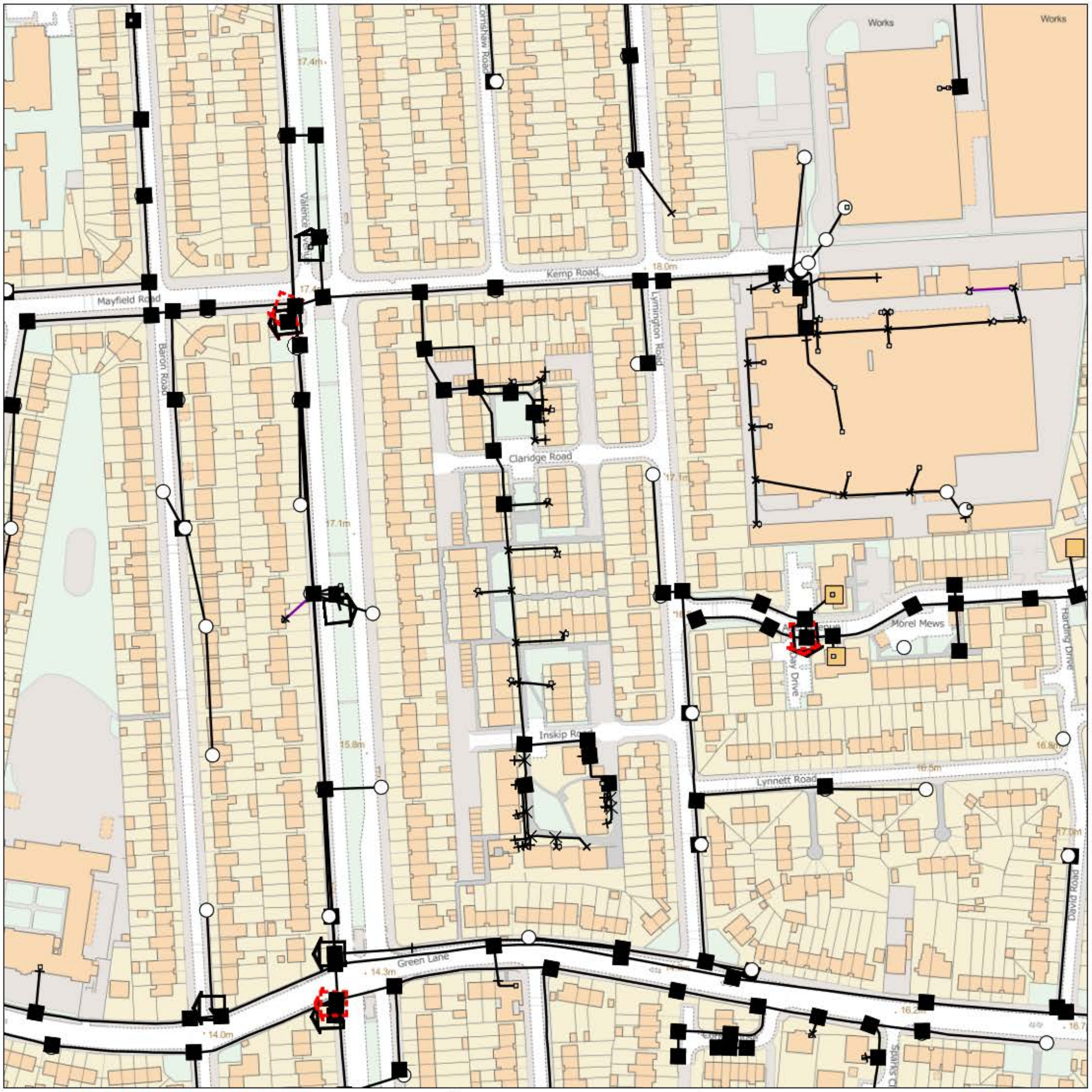
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### Ways to pay your bill

| **Credit Card** | **BACS Payment** | **Telephone Banking** | **Cheque** |
|---|---|---|---|
| Call **0845 070 9148** quoting your invoice number starting CBA or ADS / OSS | Account number **90478703**<br>Sort code **60-00-01**<br>A remittance advice must be sent to:<br>**Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW.**<br>or email **ps.billing@thameswater.co.uk** | By calling your bank and quoting:<br>Account number **90478703**<br>Sort code **60-00-01**<br>and your invoice number | Made payable to '**Thames Water Utilities Ltd**'<br>Write your Thames Water account number on the back.<br>Send to:<br>**Thames Water Utilities Ltd., PO Box 3189, Slough SL1 4WW**<br>or by DX to **151280 Slough 13** |

Thames Water Utilities Ltd Registered in England & Wales No. 2366661 Registered Office Clearwater Court, Vastern Rd, Reading, Berks, RG1 8DB.

# Maps by email Plant Information Reply




## IMPORTANT WARNING

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

openreach

## CLICK BEFORE YOU DIG

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

email cbyd@openreach.co.uk

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

### Accidents happen

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

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Controller of Her Majesty's Stationary Office
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### KEY TO BT SYMBOLS

| | *Planned* | *Live* |
|---|---|---|
| PCP | | |
| Pole | | |
| Box | | |
| Manhole | | |
| Cabinet | | |

| | | | |
|---|---|---|---|
| Change Of State | + | Hatchings | |
| Split Coupling | × | Built | |
| Duct Tee | ▲ | Planned | |
| Building | | Inferred | |
| Kiosk | K | Duct | |

Other proposed plant is shown using dashed lines.
BT Symbols not listed above may be disregarded.
Existing BT Plant may not be recorded.
Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.

| | *Pending Add* | *In Place* | *Pending Remove* | *Not In Use* |
|---|---|---|---|---|
| Power Cable | | | | |
| Power Duct | | | | N/A |

BT Ref : CDK04264K
Map Reference : (centre) TQ4781887105
Easting/Northing : (centre) 547818,187105
Issued : 04/09/2020 16:26:16

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

Apogee Utility Consultant Limited
Blount House
Hall Park Court
Hall Park Way
Telford
TF3 4NQ

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

Tel: 0870 888 3116 Opt 2

| | |
|---|---|
| Plant Enquiry Ref: | VM.1171454 |
| Letter Date | 04.09.2020 |
| Your Ref: | 421487 |
| Date: | 07.09.2020 |

Dear Sir/Madam,

Enquiry Location: Claridge Road & Inskip Road,RM8 1TU.

Thank you for your enquiry regarding work at the above location.
I enclose a copy of our above referenced drawing, marked to show the approximate position of plant owned and operated by Virgin Media.

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

Should you require Virgin Media apparatus to be diverted we must agree a specification of works and provide a detailed estimate of costs. The costs are £720 (Business) or £240 (Residential) Inc VAT and the charge applies to each individual scheme requested.
Both the estimate and specification will be sent to you within 25 working days of when the payment was received.

This initial payment will cover the following: -

•Detailed site visit by an experienced planning engineer.(Up to 10 hours planning time)

•Detailed specification of works.

•Detailed breakdown of costs.

Payment is required in advance for the estimated cost of detailed design work and the charge applies whether or not your works proceed. Please supply us with your payment and a copy of your plans or drawings and quote ‘Our Ref’ as above.

The address to send the cheque is:

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

Or if you prefer to talk, please call the Diversionary Team on: 0800 408 0088 Option 1

Should your request be in relation to a Residential New Development, Virgin Media would like the opportunity to assist with your diversionary quote and serve your site free of charge, offering your customers the fastest widely available broadband speeds on the market up to 500Mbps.
For Commercial New Developments our team can also be reached through the below link, ensuring future businesses to your site are connected to our fibre network.

Simply head over to www.virginmedia.com/developer to fill in the enquiry form, and a member of our New Developments team will be in touch within 48 hours.
You will also find useful information about additional benefits to you and your site, plus a handy 'developers guide' can be downloaded with detailed installation requirements.
Or if you prefer to talk, please call the Diversionary Team on: 0800 408 0088 Option 1

Yours faithfully

National Plant Enquiries Team,




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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 2020 Ordnance Survey 100019209.

Duct, Trench

Chamber

Cabinet

aditya.zade@virginmedia.co.uk

VM.1171454

# Enquiry Confirmation

**LSBUD Ref: 19839706**

Date of enquiry: 04/09/2020
Time of enquiry: 16:16

## Enquirer

| | | | |
|---|---|---|---|
| Name | Mr David Haigh | Phone | 01952 686570 |
| Company | Apogee Property & Utility Consultants | Mobile | Not Supplied |
| Address | Blount House Hall Court Hall Park Way<br>Telford Shropshire<br>TF3 4NQ | | |
| Email | david.haigh@apogeeutilityconsultants.co.uk | | |

## Enquiry Details

| | | | |
|---|---|---|---|
| Scheme/Reference | 421487 | | |
| Enquiry type | Initial Enquiry | Work category | Utility Works |
| Start date | 02/10/2020 | Work type | Single excavation site |
| End date | 02/10/2020 | Site size | 67565 metres square |
| Searched location | RM8 1TU | Work type buffer* | 25 metres |
| Confirmed location | 547796 187066 | | |
| Site Contact Name | Not Supplied | Site Phone No | Not Supplied |
| Description of Works | | | |

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

## Site Map




V3.3.6 Contains Ordnance Survey data © Crown copyright and database right 2018

# Enquiry Confirmation

**LSBUD Ref: 19839706**

Date of enquiry: 04/09/2020
Time of enquiry: 16:16

## Asset Owners

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

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

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

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

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

Below are three lists of asset owners:

1. LSBUD Members who have assets registered within your search area. ("Affected")
   a. These LSBUD Members will either:
      i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.

      ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.

2. LSBUD Members who do not have assets registered within your search area. ("Not Affected")

3. Non LSBUD Members who may have assets within your search area. Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

**National Grid.** Please note that the LSBUD service only contains information on National Grid's Gas above 7 bar asset, all National Grid Electricity Transmission assets and National Grid's Gas Distribution Limited above 2 bar asset.

For National Grid Gas Distribution Ltd below 2 bar asset information please go to www.beforeyoudig.nationalgrid.com

# Enquiry Confirmation

## LSBUD Ref: 19839706

Date of enquiry: 04/09/2020
Time of enquiry: 16:16

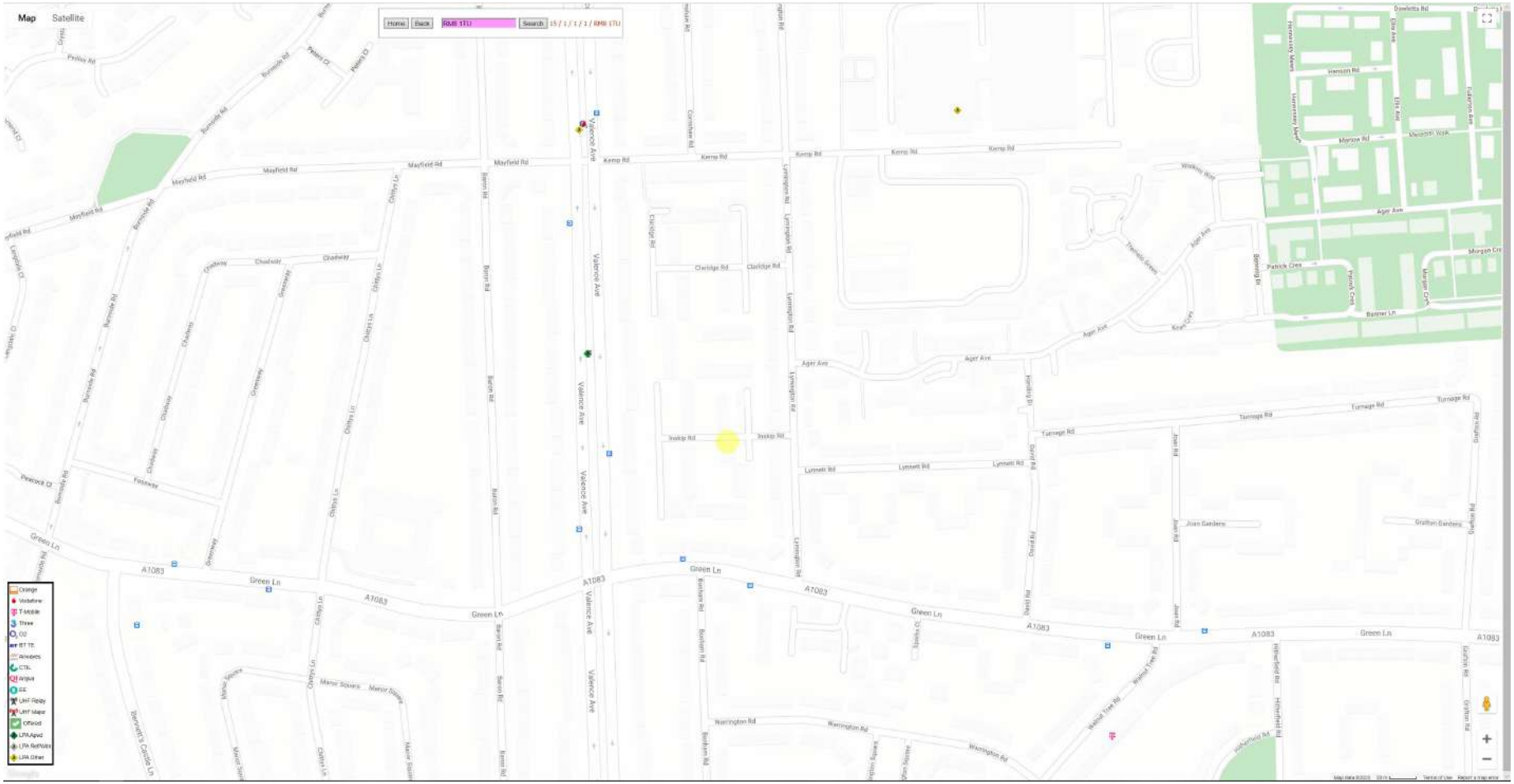
**LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.**

| List of affected LSBUD members | | | |
|---|---|---|---|
| **Asset Owner** | **Phone/Email** | **Emergency Only** | **Status** |
| Essex & Suffolk Water | 03702417408 | 03702417408 | Await response |
| UK Power Networks | 08000565866 | 08000565866 | Await response |

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

| List of not affected LSBUD members | | |
|---|---|---|
| AWE Pipeline | Balfour Beatty Investments Limited | BOC Limited (A Member of the Linde Group) |
| BP Exploration Operating Company Limited | BPA | Carrington Gas Pipeline |
| CATS Pipeline c/o Wood Group PSN | Cemex | Centrica Storage Ltd |
| Chrysaor Production (UK) Limited | CLH Pipeline System Ltd | CNG Services Ltd |
| Concept Solutions People Ltd | ConocoPhillips (UK) Teesside Operator Ltd | Diamond Transmission Corporation |
| DIO (MOD Abandoned Pipelines) | Drax Group | E.ON UK CHP Limited |
| EirGrid | Electricity North West Limited | ENI & Himor c/o Penspen Ltd |
| EnQuest NNS Limited | EP Langage Limited | ESP Utilities Group |
| ESSAR | Esso Petroleum Company Limited | Fulcrum Pipelines Limited |
| Gamma | Gas Networks Ireland (UK) | Gateshead Energy Company |
| Gigaclear Ltd | Gtt | Heathrow Airport LTD |
| Humbly Grove Energy | IGas Energy | INEOS FPS Pipelines |
| INEOS Manufacturing (Scotland and TSEP) | INOVYN Enterprises Limited | Intergen (Coryton Energy or Spalding Energy) |
| Jurassic Fibre Ltd | Mainline Pipelines Limited | Manchester Jetline Limited |
| Manx Cable Company | Marchwood Power Ltd (Gas Pipeline) | Melbourn Solar Limited |
| Murphy Utility Assets | National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission | NPower CHP Pipelines |
| NYnet Ltd | Oikos Storage Limited | Ørsted |
| Perenco UK Limited (Purbeck Southampton Pipeline) | Petroineos | Phillips 66 |
| Portsmouth Water | Premier Transmission Ltd (SNIP) | Redundant Pipelines - LPDA |
| RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station) | RWEnpower (Little Barford and South Haven) | SABIC UK Petrochemicals |
| Scottish and Southern Electricity Networks | Scottish Power Generation | Seabank Power Ltd |
| SES Water | SGN | Shell |
| Shell NOP | SSE (Peterhead Power Station) | SSE Enterprise Telecoms |
| SSE Generation Ltd | SSE Utility Solutions Limited | Tata Communications (c/o JSM Construction Ltd) |
| Total (Colnbrook & Colwick Pipelines) | Total Finaline Pipelines | Transmission Capital |
| Uniper UK Ltd | University of Cambridge Granta Backbone Network | Vattenfall |

| | | |
|---|---|---|
| Veolia ES SELCHP Limited | Veolia ES Sheffield Ltd | Wales and West Utilities |
| West of Duddon Sands Transmission Ltd | Western Power Distribution | Westminster City Council |
| Zayo Group UK Ltd c/o JSM Group Ltd | | |


Map
Satellite
Home
Back
Search
Valence Ave
Green Ln
A1083
Kemp Rd
Mayfield Rd
Lynnett Rd
Turnage Rd
Ager Ave
Clarkdge Rd
Inskip Rd
Warrington Rd
Barnston Rd
Barrie Rd
Chidlaw
Chidlaw Ln
Burnside Rd
Lyndhurst Rd
Lyndhurst Ln
Dowletta Rd
Hanson Rd
Monroe Rd
Morgan Cres
Patrick Cres
Banner Ln
Josen Gardens
Grafton Gardens
Hillfield Rd
Walnut Tree Rd
Orange
Vodafone
T-Mobile
Three
O2
BT TE
Airwaves
CTIL
Arqiva
EE
UHF Relay
UHF Mast
Offwid
LPA Apvd
LPA Refwdy
LPA Other

**From:** assetrecords@utilityassets.co.uk
**To:** David Haigh
**Subject:** Re: C2 Enquiry Request 421487 Claridge Road & Inskip Road
**Date:** 21 September 2020 11:44:03

---

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

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

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

Asset Manager - Utility Assets Ltd

**From:** ricky.rowe@engie.com
**To:** Jeremy Haigh
**Subject:** RE: Postcode Confirmations
**Date:** 28 January 2020 11:51:28
**Attachments:** image006.png

---

# 1) Location of ENGIE's Apparatus

ENGIE has buried pipework either inside or very close to the area codes listed below:

- Birmingham – B1-B9, B15-B19
- Coventry – CV1, CV2, CV3
- Eastleigh – SO50
- Hatfield – Comet Square - AL10
- Leicester – LE1-LE5
- London
  - Bloomsbury - W1 (all sub codes), WC1 (all sub codes), WC2 (all sub codes), NW1, N1C
  - Olympic Site - E3, E7, E9, E10, E11, E13, E15, E20
  - Whitehall - SW1A, SW1E, SW1H, SW1P, SW1V, SW1Y
  - ExCel Exhibition Centre - E16
  - Embassy Quarter – SW8, SW11
- Southampton – SO14, SO15, SO17
- Leeds – LS2
- Newcastle – TBC
- Edinburgh – TBC

If the location of the request for information falls within the vicinity of any of these area codes then the location they specify should be looked into in greater detail and compared with the as-built drawings of ENGIE's network. If the location is not in the vicinity of any of these cities a negative response can immediately be returned.

Also note that ENGIE oversee the operation of the CHP engines at the below sites. Whilst there is buried network at these sites, ENGIE are not responsible for their operation and maintenance. These are mentioned purely for completion of records.

- Pimlico
- Royal Borough of Kensington & Chelsea

Kind regards

Ricky Rowe
Document Controller
Urban Energy
UK & Ireland

Kings Yard
5 Clarnico Lane
Queen Elizabeth Park
London E15 2HG

ricky.rowe@engie.com
Tel. +44 (0) 208 221 6530
Mob. +44 (0) 7814 773944

ENGIE

engie.co.uk

**From:** Plant Enquiries
**To:** David Haigh
**Subject:** RE: C2 Enquiry Request 421487 Claridge Road & Inskip Road
**Date:** 07 September 2020 15:16:03
**Attachments:** image001.png

---

Dear Sir/Madam,

Thank you for submitting your recent plant enquiry.

Based on the information provided, I can confirm that Last Mile **does not** have any plant within the area(s) specified in your request.

If you require further assistance with outstanding enquiries, please call 03300 587 443.

Please ensure all plant enquiries are sent to plantenquiries@lastmile-uk.com

Regards

---

**From:** David Haigh <david.haigh@apogeeutilityconsultants.co.uk>
**Sent:** 04 September 2020 16:47
**To:** Plant Enquiries <plantenquiries@lastmile-uk.com>
**Subject:** C2 Enquiry Request 421487 Claridge Road & Inskip Road

Dear Sir or Madam,

NEW ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)' My client is considering a scheme involving major highway works as detailed below:

Scheme Number: 421487
Location of Works: Claridge Road & Inskip Road
Postcode: RM8 1TU
O.S. Grid Ref.: 547818, 187105
Road No / Street Name: Kemp Road
Description of Works: Utility Works
Expected Start Date: 2nd October 2020
Plans showing the area for the works are attached.
In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of your apparatus in the locality of the proposed works and return the plan to this office.
Notice under The Street Works (Registers, Notices, Directions and Designations) Regulations will be sent to all Undertakers as appropriate.
Unless you notify us within 10 days setting out when you will be able to reply, it will be assumed that you are able to comply with the provision of Table 1 of Appendix C (i.e. that the information requested will be provided within 10 working days).

**From:** Shivakumar, Gokila
**To:** David Haigh
**Subject:** RE: C2 Enquiry Request 421487 Claridge Road & Inskip Road
**Date:** 07 September 2020 16:41:14
**Attachments:** image002.png
image003.png

---

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

Many thanks.

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

**ATKINS** working on behalf of Vodafone: Fixed

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

**PLEASE NOTE:**

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

**IMPORTANT - PLEASE READ:-**

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

Please consider the environment before printing this e-mail

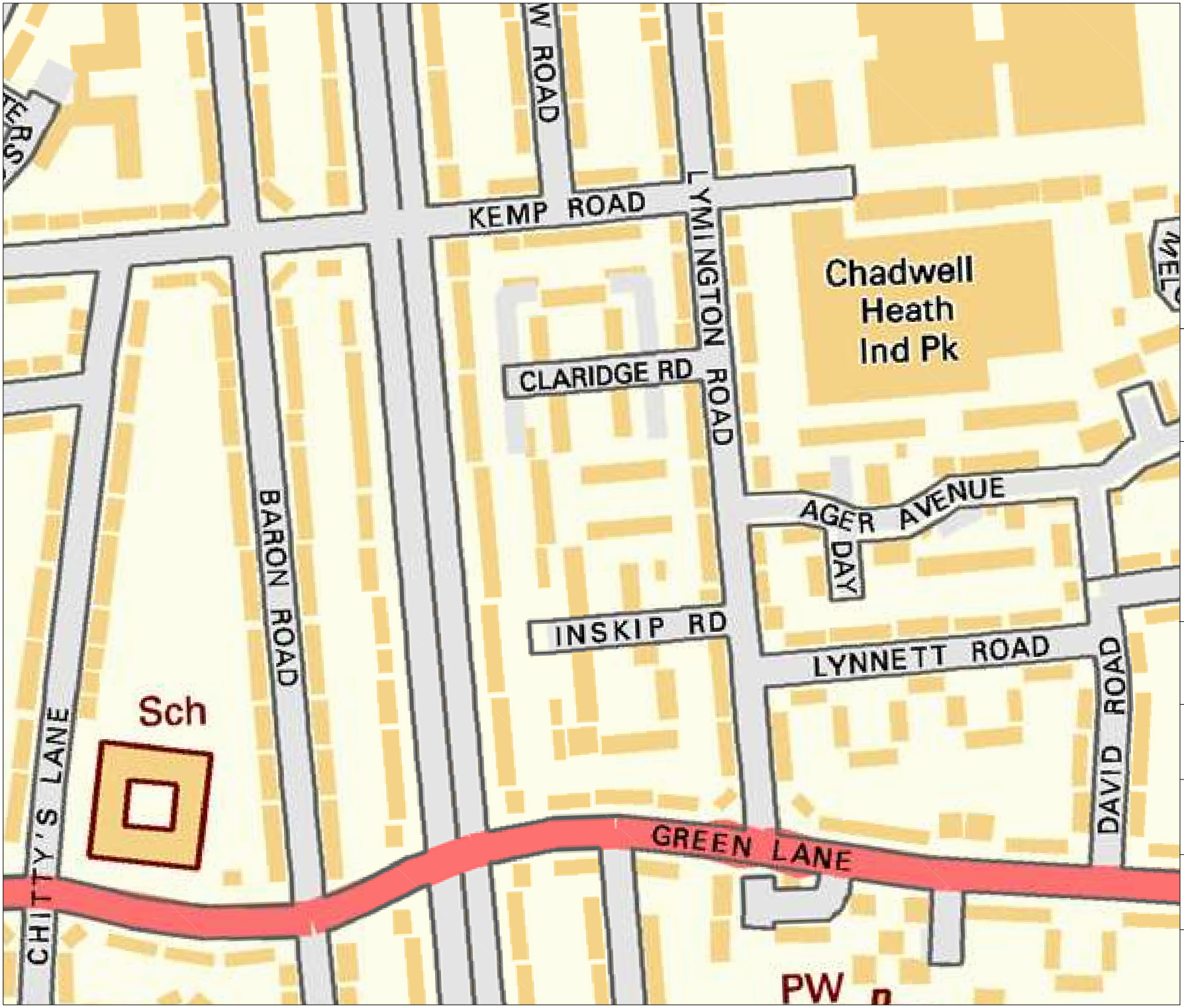
---

**From:** David Haigh <david.haigh@apogeeutilityconsultants.co.uk>
**Sent:** 04 September 2020 21:17
**To:** National Plant Enquiries <OSM.enquiries@atkinsglobal.com>
**Subject:** C2 Enquiry Request 421487 Claridge Road & Inskip Road

Dear Sir or Madam,

NEW ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)' My client is considering a scheme involving major highway works as detailed below:

Scheme Number: 421487




bitmap_layout select_raster

## LEGEND

EXISTING PLANT

EXISTING PLANT

bitmap_layout select_raster

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE

Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH

Email: asset.team@cityfibre.com

Disclaimer:

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

Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 04/09/2020

Drawing No.

CFH_EP_000001

Revision

001

Scale: 1:2500

A4

0m 20m 40m 60m 80m 100m

N

| | |
|---|---|
| **From:** | Plantenquiries |
| **To:** | David Haigh |
| **Subject:** | RE: C2 Enquiry Request 421487 Claridge Road & Inskip Road |
| **Date:** | 10 September 2020 09:44:32 |
| **Attachments:** | image002.png<br>image003.png<br>image004.png |

---

**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

C.A. TELECOM UK LIMITED

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---

**From:** David Haigh <david.haigh@apogeeutilityconsultants.co.uk>
**Sent:** 04 September 2020 16:48
**To:** Plantenquiries <plantenquiries@catelecomuk.com>
**Subject:** C2 Enquiry Request 421487 Claridge Road & Inskip Road

Dear Sir or Madam,

**From:** plantenquiries@psgservices.co.uk
**To:** David Haigh
**Subject:** Scheme Number: 421487
**Date:** 09 September 2020 09:46:02

---

To Whom It May Concern:

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

euNetworks Fiber UK Limited do not have plant in the vacinity of your proposed works and no strategic additions to our existing network are envisaged in the immediate future.

This information is only valid for a period of 3 months so, if your start date is 3 months or more from the date of this email, please re-apply for updated information at our generic email addre
ss: plantenquiries@psgservices.co.uk.

Kind regards

**ALL PLANT ENQUIRIES AND DIVERSIONARY REQUESTS SHOULD BE ADDRESSED BY EMAIL TO THE OPERATIONS TEAM AT** plantenquiries@psgservices.co.uk **, WITH A PLAN AND FULL POSTAL ADDRESS OF YOUR ENQUIRY, THANK YOU**

eunetworks

For and on behalf of euNetwork Fiber UK Limited

Thanks

Vivien Hart

**T** 01772 514453 | **E** plantenquiries@psgservices.co.uk

PSG

Telecommunications Survey, Planning, Engineering & GIS Services

---

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Virus-free. www.avg.com

| | |
|---|---|
| **From:** | Plantenquiries |
| **To:** | David Haigh |
| **Subject:** | RE: E09-20-1322 C2 Enquiry Request 421487 Claridge Road & Inskip Road |
| **Date:** | 09 September 2020 09:26:33 |
| **Attachments:** | image003.png<br>image004.png<br>image005.png<br>image006.png |

Dear Sir or Madam,

Thank you for your plant enquiry below.

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

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

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

Regards

**Plant Enquiries Administrator**

INSTALCOM

Instalcom Limited
Borehamwood Ind Park
Rowley Lane
Borehamwood
WD6 5PZ

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

**From:** David Haigh [mailto:david.haigh@apogeeutilityconsultants.co.uk]

**From:** KPN Plant Enquiries
**To:** David Haigh
**Subject:** RE: K09-20- 1169 C2 Enquiry Request 421487 Claridge Road & Inskip Road
**Date:** 10 September 2020 13:38:43
**Attachments:** image003.png
image004.png
image005.png
image007.png

---

Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that KPN 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
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

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

---

**From:** David Haigh <david.haigh@apogeeutilityconsultants.co.uk>
**Sent:** 04 September 2020 16:49
**To:** KPN Plant Enquiries <kpn.plantenquiries@instalcom.co.uk>

**From:** Nraswa
**To:** David Haigh
**Subject:** RE: C2 Enquiry Request 421487 Claridge Road & Inskip Road
**Date:** 06 September 2020 06:46:50
**Attachments:** image002.png
image003.png

---

Hello,

Location / Ref no :
Scheme Number: 421487
Location of Works: Claridge Road & Inskip Road
Postcode: RM8 1TU
O.S. Grid Ref.: 547818, 187105
Road No / Street Name: Kemp Road

At this time the KCOM Group PLC has no apparatus or proposals for new apparatus in the vicinity of these works and will not be affected by them. Please note this reply is valid for 3 months from the date of this letter.

**KCOM now offer this service free on-line, to register for this please contact Tony Parker at Tony.Parker@Kcom.com**

Kind Regards

**Pete McSherry**
*NRSWA Planner – Field Engineering*
*Mobile/Cell: +44 (0) 748 453 9186*
*Email: pete.mcsherry@kcom.com*
*Web: www.kcom.com*

KCOM Commercial in Confidence

**From:** David Haigh <david.haigh@apogeeutilityconsultants.co.uk>
**Sent:** 04 September 2020 16:50
**To:** Nraswa <nraswa@kcom.com>
**Subject:** C2 Enquiry Request 421487 Claridge Road & Inskip Road

Dear Sir or Madam,

NEW ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary

**From:** NRSWA
**To:** David Haigh
**Subject:** C2 Enquiry Request 421487 Claridge Road & Inskip Road
**Date:** 04 September 2020 17:01:08
**Attachments:** image003.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.

Regards

NRSWA Department
Tech UK - Implementation
sky | TECHNOLOGY
nrswa@sky.uk +44 20703232234

**From:** David Haigh <david.haigh@apogeeutilityconsultants.co.uk>
**Sent:** 04 September 2020 16:50
**To:** NRSWA <nrswa.nrswa@sky.uk>
**Subject:** [EXTERNAL] C2 Enquiry Request 421487 Claridge Road & Inskip Road

Dear Sir or Madam,

NEW ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)' My client is considering a scheme involving major highway works as detailed below:

Scheme Number: 421487
Location of Works: Claridge Road & Inskip Road
Postcode: RM8 1TU
O.S. Grid Ref.: 547818, 187105
Road No / Street Name: Kemp Road
Description of Works: Utility Works

nd

**From:** SOTA Plant Enquiries
**To:** David Haigh
**Subject:** RE: S09-20- 0816 C2 Enquiry Request 421487 Claridge Road & Inskip Road
**Date:** 10 September 2020 21:40:23
**Attachments:** image003.png
image004.png
image005.png
image007.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.
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

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

---

**From:** David Haigh <david.haigh@apogeeutilityconsultants.co.uk>
**Sent:** 04 September 2020 16:50
**To:** SOTA Plant Enquiries <SOTA.PlantEnquiries@instalcom.co.uk>

**telent**
Xchange House
Endeavour Way
Basildon
Essex
SS14 3AS
United Kingdom

www.**telent**.com

Date 14/09/2020
Our Ref LPENQ0000122649

Dear Sir/Madam

**Teliasonera Line Plant Enquiry.**

Thank you for your correspondence enclosing details of your proposals as per your reference below.

**421487 Claridge Road & Inskip Road, Kemp Road**

Our client's apparatus, Teliasonera, is not located within the vicinity of the above reference and we therefore have no further interest in this current location.

Please note that all enquiries relating to the Teliasonera line plant should be forwarded to:

By post – to, telent,

Teliasonera line plant enquiries,

Xchange House,

Endeavour Way,

Basildon,

Essex

SS14 3AS

By email - to, telenttelia.plantenquiries@telent.com

By phone – to, 01268 269096

Yours faithfully

Telent CCO

Basildon

**From:** UK OSP-Team
**To:** David Haigh
**Cc:** UK OSP-Team
**Subject:** RE: C2 Enquiry Request 421487 Claridge Road & Inskip Road
**Date:** 07 September 2020 10:08:31
**Attachments:** image001.png

---

Dear Sir/Madam

Verizon is a licensed Statutory Undertaker.

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

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

Yours faithfully

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

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**From:** David Haigh [mailto:david.haigh@apogeeutilityconsultants.co.uk]
**Sent:** 4 September, 2020 4:50 PM
**To:** UK OSP-Team
**Subject:** [E] C2 Enquiry Request 421487 Claridge Road & Inskip Road

Dear Sir or Madam,

NEW ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)' My client is considering a scheme involving major highway works as detailed below:

Scheme Number: 421487
Location of Works: Claridge Road & Inskip Road
Postcode: RM8 1TU
O.S. Grid Ref.: 547818, 187105
Road No / Street Name: Kemp Road
Description of Works: Utility Works
Expected Start Date: 2nd October 2020
Plans showing the area for the works are attached.
In order that all reasonable precautions may be taken to avoid risk to health and safety through contact with any of your existing apparatus during execution of the proposed works, please indicate the position and depth of your apparatus in the locality of the proposed works and return the plan to this office.
Notice under The Street Works (Registers, Notices, Directions and Designations) Regulations will be sent to all Undertakers as appropriate.
Unless you notify us within 10 days setting out when you will be able to reply, it will be assumed that you are able to comply with the provision of Table 1 of Appendix C (i.e. that the information

| | |
|---|---|
| **From:** | TM Plant Enquiries |
| **To:** | David Haigh |
| **Subject:** | Re: C2 Enquiry Request 421487 Claridge Road & Inskip Road |
| **Date:** | 07 September 2020 14:56:59 |
| **Attachments:** | image001.png |

**Our ref**: Damian Sweeney TEL: 01234759112 or 07712129249

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

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

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

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

Yours sincerely
For & on Behalf of
Trafficmaster Ltd

**Infrastructure Maintenance**
plantenquiries@trafficmaster.co.uk

---

**From:** David Haigh <david.haigh@apogeeutilityconsultants.co.uk>
**Sent:** Friday, September 4, 2020 3:50 PM
**To:** TM Plant Enquiries <plantenquiries@trafficmaster.co.uk>
**Subject:** C2 Enquiry Request 421487 Claridge Road & Inskip Road

**CAUTION:** This email originated from outside the company.

Dear Sir or Madam,

NEW ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)' My client is considering a scheme involving major highway works as detailed below:

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Road No / Street Name: Kemp Road
Description of Works: Utility Works
Expected Start Date: 2nd October 2020
Plans showing the area for the works are attached.

**From:** LULHVpowerassets@tfl.gov.uk
**To:** David Haigh
**Subject:** NRSWA Request Response - Your Reference 421487
**Date:** 04 September 2020 20:13:01

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Our Ref: **VJ4D74PQ**
Your Ref:**421487**
Date:04 September 2020

Name: **David Haigh**
Company Name: **Apogee utility consultants**

Dear Sir/Madam

We acknowledge receipt of your Letter / New Roads & Street Works Act Enquiry dated **04/09/20** relating to the following enquiry:

**Location of Works: Claridge Road & Inskip Road**
**Postcode: RM8 1TU**
**O.S. Grid Ref.: 547818,187105**
**Road No / Street Name: Kemp Road**

We have no H.V. cables or cable duct routes in the immediate area in question. Please note that we only manage High Voltage, Pilot and Fibre Optic Cables for the London Underground distribution network.

Yours sincerely,

On Behalf of the H.V. Cables Manager

Title: NRSWA co-ordinator

Email:**LULHVpowerassets@tfl.gov.uk**

London Underground
Power Distribution
Units 7 & 8,Station Road
Drawing Office
Tufnell Park
London
N19 5UW
Tel: 0203 054 8418/0203 054 8354

**********

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**From:** Location Enquiries
**To:** David Haigh
**Subject:** RE: C2 Enquiry Request 421487 Claridge Road & Inskip Road
**Date:** 07 September 2020 12:58:02
**Attachments:** image001.png

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David

Thank you for your enquiry.

I can confirm that London Underground/DLR has no assets within 50 metres of your site as shown on the plan you provided.

Kind regards

**Shahina Inayathusein MIAM MAPM**
Safeguarding Engineer (LU+DLR)
Infrastructure Protection -TfL Engineering
Email: locationenquiries@tube.tfl.gov.uk
Find out more about Infrastructure Protection - https://youtu.be/0hGoJMTBOEg

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**From:** David Haigh <david.haigh@apogeeutilityconsultants.co.uk>
**Sent:** 04 September 2020 16:50
**To:** Location Enquiries <SMBLocationEnquiries@tfl.gov.uk>
**Subject:** C2 Enquiry Request 421487 Claridge Road & Inskip Road

Dear Sir or Madam,

NEW ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)' My client is considering a scheme involving major highway works as detailed below:

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Should you require any further information, please contact us immediately.

Yours sincerely,

**From:** Fuller Dain on behalf of OP Buried Services Enquiries
**To:** David Haigh
**Subject:** RE: C2 Enquiry Request 421487 Claridge Road & Inskip Road
**Date:** 04 September 2020 17:09:10
**Attachments:** image003.png

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Dear Sir/Madam,

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

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

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

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

Contact details can be found in the following link: Network Rail Asset Protection Teams

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

Regards,

**Dain Fuller**
Worksite Survey Manager

**Worksite Survey | Asset Information Services**
National Records Centre | Audax Road | York YO30 4US
**W:** www.networkrail.co.uk

*At Network Rail we work flexibly – so whilst it suits me to email now, I do not expect a response or action outside of your own working hours*

---

**From:** David Haigh <david.haigh@apogeeutilityconsultants.co.uk>
**Sent:** 04 September 2020 16:51
**To:** OP Buried Services Enquiries <OPBuriedServicesEnquiries@networkrail.co.uk>
**Subject:** C2 Enquiry Request 421487 Claridge Road & Inskip Road

Dear Sir or Madam,

NEW ROADS AND STREET WORKS ACT 1991 PRELIMINARY ENQUIRY Appendix C2 of the Code of Practice (CoP) 'Measures Necessary Where Apparatus Is Affected By Major Works (Diversionary Works)' My client is considering a scheme involving major highway works as detailed below:

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Should you require any further information, please contact us immediately.

Yours sincerely,

David Haigh
Researcher
Blount House
Hall Park Court
Hall Park Way
Telford, TF3 4NQ
**Office +44 (0)1952 686570**
DDI: +44 (0)1952 686573
Mobile +44 (0)7860 644 367
**david.haigh@apogeeutilityconsultants.co.uk**
**www.apogeeutilityconsultants.co.uk**

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Network Rail Infrastructure Limited registered in England and Wales No. 2904587, registered office Network Rail, 2nd Floor, One Eversholt Street, London, NW1 2DN

**********

**Property address**

11 INSKIP ROAD, DAGENHAM, BARKING AND DAGENHAM, RM8 1TU




Cancel Previous Next

Screen reference: MRP104

# Recommended actions

We can confirm your boundary is:

- located off the coalfield
- not within the Cheshire Brine Compensation District

Cancel Previous Next

Screen reference: MRP410



The Coal Authority

The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire NG18 4RG

# Definition of Report Terms

**Affected Plant – Where plant records indicate that the utility has plant in or near to the site.**

**Not Affected – Where the utility or we (using our maps and resources) have determined that there is no plant in or near the site.**

**No Response Received – Despite our chasing we are still to receive a response from the utility, you will get further reiterations of the report until it is complete, with the exception of the Council where in some cases they never respond.**

# Vodafone & Virgin Media

**Virgin Media Option:** We find that Virgin are affected by a lot of our searches particularly in urban areas you should only not search Virgin where you are happy with the risk or have certainty they are not in the site area.
**Vodafone Option:** We find that Vodafone are affected in less than 10% of enquires but this increases in urban area and the South East particularly in London.

NB. Should you change your mind and require us to search any or all of these three after you have received your report or within 90 days of receiving your report we will process any or all of the above with you only paying the disbursement charge levied by the relevant utility. In the event that you have not received your Invoice then the additional costs will be added. In cases where your Invoice has been issued then a new one will be issued at the point at which you instruct us to complete the additional search.

# Acronyms Key

| | | | |
|---|---|---|---|
| Electric | | | |
| DNO | Distribution Network Operator | KVA | Kilo Volt Amperes |
| IDNO | Independent Distribution Network Operator | MVA | Mega Volt Amperes |
| ICP | Independent Connections Provider | AC | Alternating Current |
| LV | Low Voltage | S/S | Substation |
| HV | High Voltage | PMT | Pole Mounted Transformer |
| EHV | Extra High Voltage | | |
| Water | | | |
| SLO | Self Lay Organisation | WRAS | Water Regulation Advisory Scheme |
| Incumbent | Local Water or Water & Sewerage Company | | |
| Gas | | | |
| GT | Gas Transporter | LP | Low Pressure |
| IGT | Independent Gas Transporter | MP | Medium Pressure |
| UIP | Utility Infrastructure Provider | IP | Intermediate Pressure |
| PRS | Pressure Reducing Station (Governor) | HP | High Pressure |
| Others | | | |
| AP | Apogee Property & Utility Consultants | CATV | Cable Television |
| PE | Polyethylene | FTTP | Fibre to the premise |
| DI | Ductile Iron | FTTC | Fibre to the cabinet |
| ST | Steel | l/min | Litres per minute |
| CI | Cast Iron | H&S | Health & Safety |
| SI | Spun Iron | HBF | House Builders Federation |
| HPPE | High Performance Polyethylene | TPO | Tree Preservation Order |
| MDPE | Medium Density Polyethylene | TBC | To be confirmed |
| GRP | Glass Reinforced Plastic | N/A | Not Applicable |

# Important Information

## Relevant Documents

The following documents must be referred to before work commences in the vicinity of existing services:

- Health and Safety Booklet HS (GS) 6 Avoidance of Danger from Overhead Electric Lines.
- General Safety Measures to Avoid Injury and Damage to Gas Apparatus.
- HSE Guidance Note HS (G) 47 Avoiding Danger from Underground Services.
- National Joint Utilities Group (NJUG) Publications Vol. 1.
- CDM Regulations 2015.
- PAS 128:2014 Specification for Underground Utility Detection, Verification and Location.

## Basic Risk Assumption for all Services

When dealing with existing services the following assumptions must always be accepted:

- All existing buildings have gas, water electric and telecoms supplies to them until proven otherwise.
- Any supply to an existing building, no matter how old the building is or how deteriorated the supply may appear, is taken to be 'live' until proven otherwise.
- All open land, vacant lots and derelict sites are deemed to have services beneath them until proven otherwise.
- The only acceptable proof that a service is 'dead' and can be removed is written confirmation from the owner of the service.
- The quality and accuracy of information provided by utilities about their existing plant is indicative and no warranty is made as to its accuracy. Therefore, any utility asset maps and/or marked up drawings provided by each utility must only be used as a guide and the actual location of plant should be verified by CAT Scan GPR survey or trial holes before construction works commence.
  *Please note not all service connections are shown on the utility asset maps.*

## Plant Found Within Site Boundaries

Where utility plant is found within the site boundary, it is recommended for the client to check for legal easements or wayleaves a Wayleave search service is available from us please ask for a quotation.

Diversions of plant within site boundaries can be expensive and time consuming to relocate. Further investigation of costs and timescales are recommended. Please ask us for further details.