

# Groundsure Apogee Full Utility Search

14 Blackburn Road





## **Full Utility Search**







#### 14 Blackburn Road

#### **Site Address:**

14 Blackburn Road, London, NW6 1RZ

25/03/2025

PROJECT NO.

428955

ISSUE NO.

1

**STATUS** 

**Full Utility Search** 





## Groundsure LOCATION INTELLIGENCE

## **Full Utility Search**



#### C2 Stats Plans Responses Summary

Apogee Job Number: 428955

Client Site Name: 14 Blackburn Road Client Job Number: GS-G1H-GNN-TGN-5PR

Percentage Complete: 100%

No No					
Utility Name	Utility Type	Affected	Not Affected	Response Received	Comments
UKPN	Electric	25/03/2025			
NGET	Electric		25/03/2025		
Cadent	Gas	25/03/2025			
Eclipse Power	Multi		25/03/2025		
Energy Assets	Multi		25/03/2025		
ESP	Multi		25/03/2025		Close to Site
GTC	Multi	25/03/2025			
Last Mile	Multi		25/03/2025		
Leep Utilities	Multi		25/03/2025		
Bring Energy (Equans)	Multi		25/03/2025		
Thames Water	Water	26/03/2025			
Thames Water	Sewerage	26/03/2025			
BT	Telecoms	25/03/2025			
Vodafone (C&W, Energis, Thus)	Telecoms			*	Not Requested by Client
Virgin Media	Telecoms			*	Not Requested by Client
Cityfibre	Telecoms		25/03/2025		
Colt	Telecoms		25/03/2025		
EUNetworks	Telecoms		25/03/2025		
GNetwork	Telecoms	25/03/2025			
Lumen Technologies	Telecoms		25/03/2025		
Kcom	Telecoms		26/03/2025		
MBNL	Telecoms		26/03/2025		
Sky	Telecoms		25/03/2025		
Sota	Telecoms		25/03/2025		
Arelion (Telent)	Telecoms		25/03/2025		
Verizon	Telecoms		25/03/2025		
Zayo	Telecoms		25/03/2025		Close to Site
Linesearch	Linesearch	25/03/2025			
Mast Data	Telecoms	25/03/2025	/03/2025		
Lon Underground	Infrastructure	25/03/2025			
Lon Overground	Infrastructure		25/03/2025		
PO/Tuns	Infrastructure		25/03/2025		
Crossrail	Infrastructure		25/03/2025		
Network Rail	Infrastructure		25/03/2025		
TFL Streetworks	Infrastructure		30/03/2025		

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





## **Full Utility Search**





Job No:	428955
Approved by:	David Haigh
Date of First Issue:	26/03/2025
Signature:	Oblies

Date	Version	Created by	Description of change
26/03/2025	0.1	Bradley Inston	First Issue
31/03/2025	0.2	Bradley Inston	Second and Final Issue (TFL Added)







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: 36742219 Your Ref: 428955

Tuesday, 25 March 2025

Bradley Inston Hadley Park East Hadley Park East Telford SHR TF1 6QJ

**Dear Bradley Inston** 

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









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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.

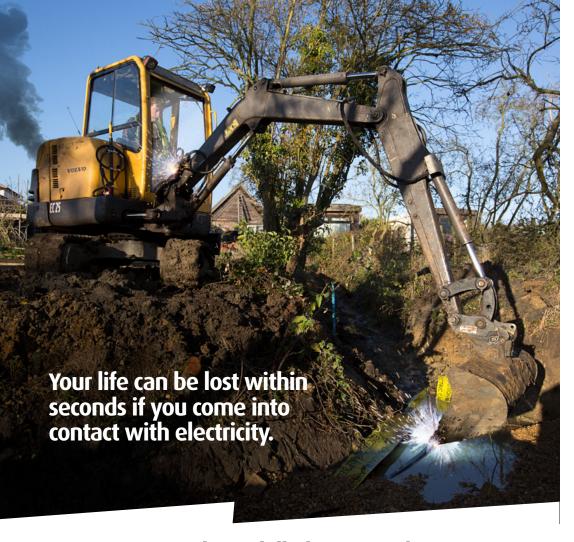












## Every year, people are killed or seriously injured when they come into contact with high voltage electricity.

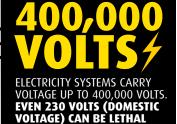
This can have a far-reaching and devastating effect on family, friends and colleagues.

Distractions, working long hours, rushing to get the job done, can all impact on how we work and our safety.

Taking time to plan, being prepared and focusing on the way we work can help keep us safe.













**OUR NETWORK** DISTRIBUTES ELECTRICITY THROUGH UNDERGROUND CABLES, PYLONS, OVERHEAD POWER LINES, SUBSTATIONS AND OTHER EQUIPMENT









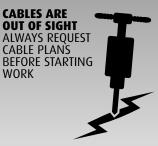
OF ANY YELLOW 'DANGER OF DEATH' WARNING SIGNS. AND STAY WELL AWAY!





**OVERHEAD POWER LINES** ARE OFTEN UNINSULATED (BARE)





**HORIZONTALLY AND AT LOW** LEVEL TO THE GROUND

**TOUCHING ANYTHING IN** CONTACT WITH ELECTRICAL EQUIPMENT, EVEN THE LOWEST OF VOLTAGÉS, CAN BE FATAL



## The electricity network is designed to keep you safe. But how safe are you when you are working?

**UK Power Networks** is the country's biggest electricity distributor, making sure the lights stay on for more than eight million homes and businesses across London, the South East and the East of England.

#### The safety of our customers and staff is our top priority.

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 the time to read this simple leaflet and identify the precautions they should be taking.



#### Remember:

- The depth and location of cables and services shown on the plans may have changed because of subsequent site alterations
- Be aware that not all cables and services may be shown on the plans
- Cables do not run in straight lines. Underground cables may be deflected around underground obstacles and can change depth
- Wear Personal Protective Equipment to minimise the harm of electric shock and burns

If you are building a permanent or temporary structure within close proximity of power lines it's a legal requirement\* you notify us in advance to ensure your building is kept at a safe distance from power lines, and to avoid the need to relocate our equipment in the future. This can be done by completing a simple form here www.ukpowernetworks.co.uk/notifyus \*Regulation 18(3) of the Electricity, Quality & Continuity Regulations 2002 (ESQCR)



#### How can we help?

If you work or live in the UK Power Networks area contact us or look on our website. We provide free information and advice about the precautions and safe working practices to be followed when working close to electrical equipment.

Further advice and guidance is available from the Health and Safety Executive (HSE):

HSG85 - Electricity at Work – Safe Working Practices GS6 - Avoiding Danger from Overhead Power Lines HSG47 - Avoiding Danger from Underground Services

## What to do in an emergency

If a mains electricity cable is damaged:

- STOP WORK IMMEDIATELY
- Notify UK Power Networks: Dial 105
- If you damage a cable, stay calm, keep clear, and call for help
- Call the emergency services if anyone is injured or there is a fire. Anyone who has received an electric 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
- Never remove anything that is stuck or in contact with the cable
- Stay clear keep everyone away until assistance arrives



To request your FREE vehicle cab stickers visit the safety pages at www.ukpowernetworks.co.uk

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



You could be in danger when carrying out your everyday trades activities such as digging, construction and demolition.

- Contact UK Power Networks or Line Search Before U Dig (LSBUD) in advance of the works to obtain relevant cable plans or to request disconnections. The cable plans will only show the indicative route and not the route into the property
- function to and Ensure the cable plans are shown to and understood by those on site BEFORE starting work
- Confirm the cable location by using a Cable Avoidance Tool (CAT) before digging commences. Once found, mark cable positions with spray paint or similar

For cable plans visit
www.lsbud.co.uk or
www.ukpowernetworks.co.uk

- Complete a risk assessment and ensure it covers electrical hazards
- 👉 Use spades and shovels with insulated handles in preference to forks and picks
- Look around for anything in the vicinity that would have an electricity service such as street lights, CCTV cameras, or meter boxes and identify where the cables are
- Look for electrical wires, cables and equipment near to where you are going to work and check for warning signs and any other hazards
- Contact UK Power Networks to agree a safe method of work if there is a cable encased in concrete,
  DO NOT BREAK OPEN
- Make sure everyone on site is aware of the presence and location of electrical cables
- Before demolishing a building make sure supplies are disconnected, preferably well clear of the work area. For guidance on how to arrange a disconnection visit www.ukpowernetworks.co.uk







## **Stop!** Think before you dig!

## #bebrightstaysafe



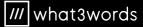
@UKPowerNetworks



**f** /ukpowernetworks

#### National power cut helpline

**POWER CUT? CALL 105**  Or call us 24 hours a day on 0800 31 63 105



To report broken or damaged electrical equipment or in an emergency call 0800 31 63 105 or 105 and use what3words to help us locate you faster.



To request your **FREE** vehicle cab stickers visit the safety pages at www.ukpowernetworks.co.uk

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







## NetWork Records NetMAP Symbols Booklet - London

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	Scenery.
4	Scenery (UK Power Networks use only-boxed red)
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9	Cable terminology.
10	Cable size abbreviations.
11	Cable ducts.
12	Other NetMAP symbols.
15	Services.
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19	Abbreviations used in cross sections.
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	The City of London: single line.
	Finsbury and Shoreditch: multi-single line style 1. Ex-North Eastern area: HV/LV.
	Ex-North Eastern area: multi-single line style 2.
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#### **Guidance notes.**

#### Important notice:

If you do not understand the NetMAP record that you are using, please contact UK Power Networks Network Records for guidance

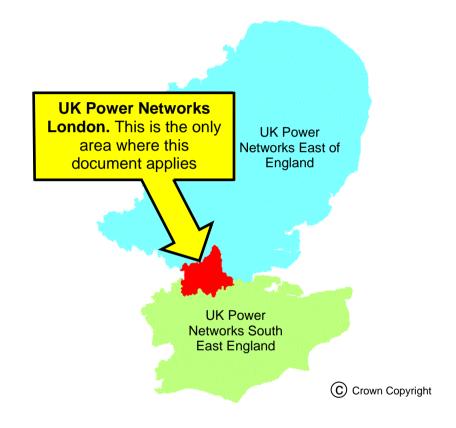
Tel: 08000 565866.

- 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. A separate record may be available.
- When excavations are to be carried out near Extra High Voltage (EHV) cables, further details must be obtained before commencement of work.
- Third party cables are not usually shown.
- 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 booklet.
- All LV cables are assumed to be 4 core, and all HV cables assumed to be 3 core unless otherwise stated.
- All Imperial cable sizes are assumed to be copper and all metric cable sizes are assumed to be aluminium – unless otherwise stated.



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

## The area covered by this guide:



Please see the anomalies map at the end of this safety booklet for greater map area detail, and a breakdown of the more significant anomalies within the London area.

Scenery				
NetMAP system	Scanned image	Description		
TUNNEL NOT APPLICABLE		100 metre Ordnance Survey grid line (on 0/S based maps only) Property fence line Building line Kerb line Kerb line on majority of ways & mains maps Cable tunnel or subway  Borough or City boundary and UK Power Networks boundary  UK Power Networks or		
		UK Power Networks or 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)		
THO HIGH	Not applicable	Proposed Cross Rail route (only visible to of UK Power Networks and their immediate contractors)		
	Not applicable	High pressure pipelines in the general vicinity (only visible to of 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 (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Historical - Areas of Archaeological Potential (AAP) (only visible to UK Power Networks and their Immediate contractors)		
	Not applicable	Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Nature - Special Protected Area (SPA) (only visible UK Power Networks and their immediate contractors)		
	Not applicable	Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)		
section continued on next page				

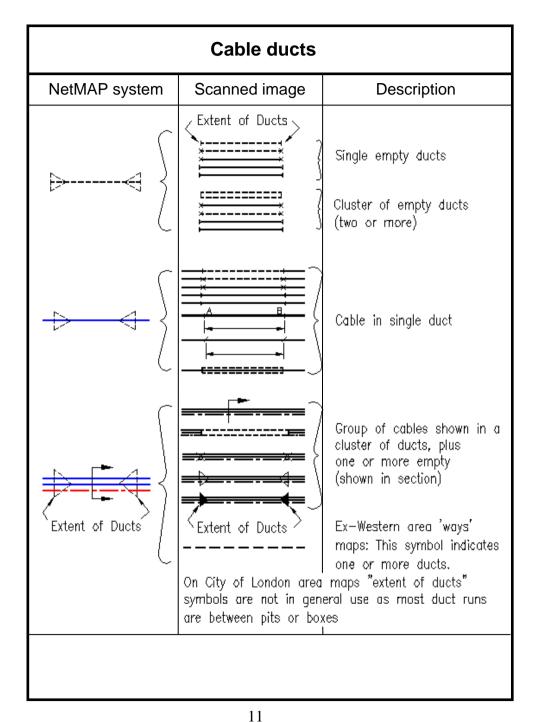
Scenery for UK Power Networks use only - boxed in red				
NetMAP system	NetMAP system Scanned image			
	Not applicable	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Nature - National Park (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors)		
	Not applicable	Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors)		

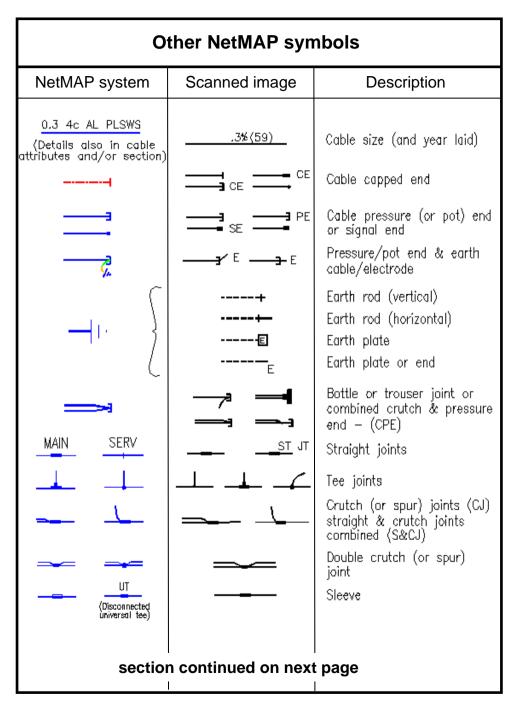
Primary distribution cables			
NetMAP system	Scanned image	Description	
EHY CABLE	——EHV Coble Route 259 Not applicable ——s——s——s——s	UK Power Networks route (11,000 , 22,000 to 132,000 volts) Oil/gas cable stop Part of UK Power Networks cable route where cover is less than normal	

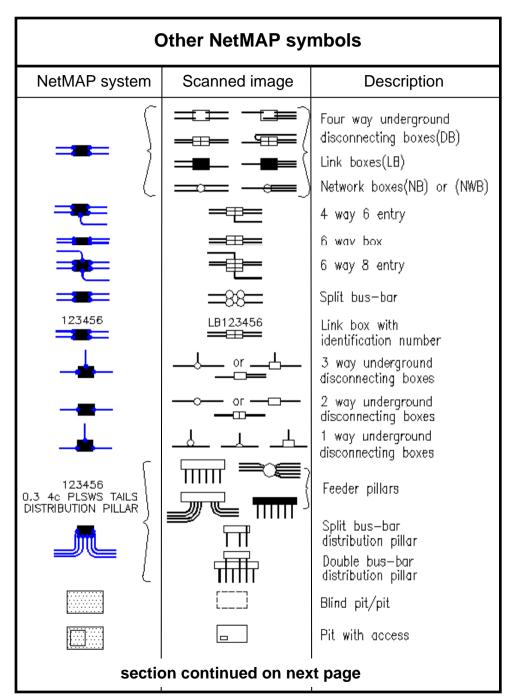
Secondary distribution cables				
NetMAP system	Scanned image	Description		
(20kV) (11kV) (6.6kV)	.3 (AL) % .15 % .3 (AL) %  .3 (AL) %  .185 %  .0225 %  Not applicable	HV cable (up to 20kV)  3 phase LV cable (230V or 400/230V) 1 or 2 phase LV cable (230V or 400/230V) Pilot or Telephone cable, often not shown in plan if running with other cables Fibre—optic cable Earth cable HV or LV cable in duct Duct route(s) not containing		
	}	Duct route(s) not containing live cables		

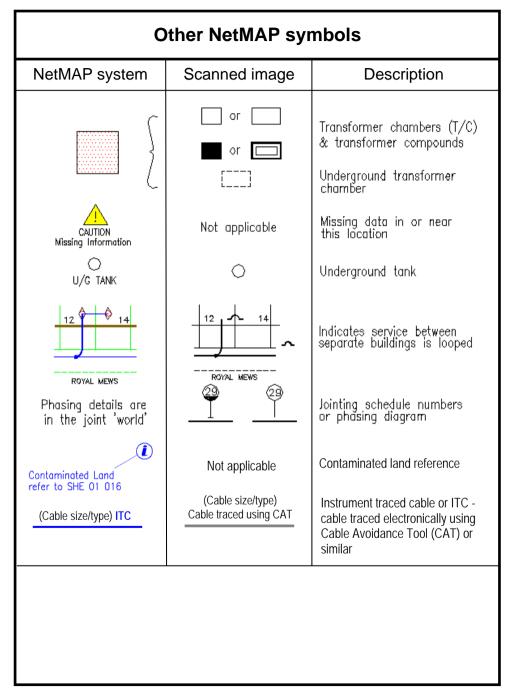
Cable terminology				
NetMAP system	Scanned image	Description		
PL PLS PLST or PLSW PLSTS PLSWS PLSW PLS PLST or PLSW PLST PLST PLSW AI Cu WV CS PVC EPR XLPE SOL ax cx	PL PLS PLA PLTS PLDT PLWS PLBW LC & H LC & BA LC & BA  DSTA STA SWA AI Cu WV CS PVC EPR XLPE SOLIDAL TRIPLEX TRIPLEX	Paper Lead Paper Lead Served Paper Lead Served Paper Lead Steel Tape Served Paper Lead Double Tape Paper Lead Steel Wire Served Paper Lead Bright Wire Lead Covered & Hessian Lead Covered & Armoured Lead Covered & Bright Armoured Double steel tape armoured Steel Tape Armoured Steel Wire Armoured Aluminium Copper Waveconal Consac Polyvinyl Chloride Ethylene Propylene Rubber Cross Linked Polyethylene Solid Aluminium Triplex (aluminium) Triplex (copper)		

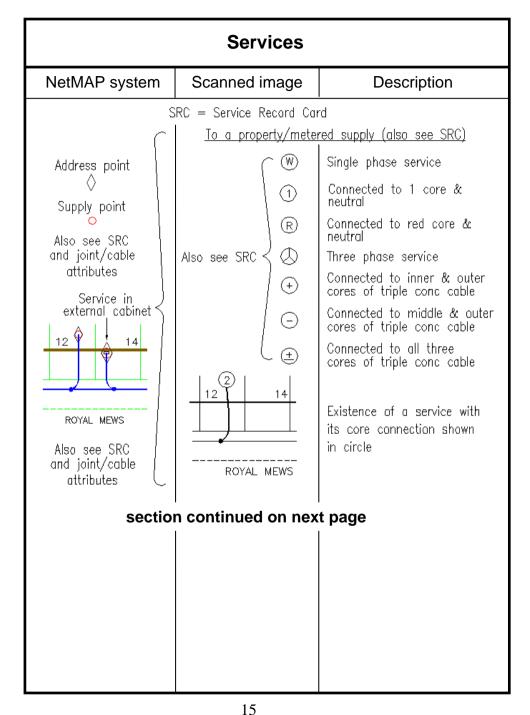
Cable size abbreviations			
NetMAP system	Scanned image	Description	
1c c/c t/c 4c 3c CNE	% % % or T/cc % % (см)	Single core. Concentric cores Triple concentric cores Four cores Three cores and concentric neutral — not of the Waveconal type	
2c s/c 3c DC P Pr	% (or Tw) %c %c DC P	Two cores (or twin) Split concentric cores Three cores Direct current Pilot Number of telephone pairs	

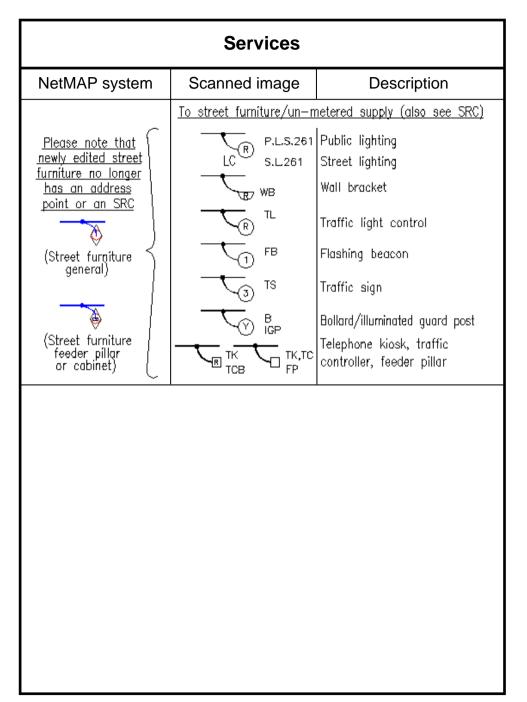












Symbols used in cross sections				
NetMAP system		Scanned image	Description	
•		• •	Cable laid direct	
•		● ●	Cable laid in duct	
8		Ø 8	Blocked duct (sometimes used for unidentified cables)	
0		0 0	Single earthenware duct	
○ 2½" S		0	Single steel pipe	
			Square cable duct	
00		00	Group of circular ducts	
		88	Group of circular ducts (Sykes)	
			Group of square ducts (Doulton)	
	(	□°¹□ ↔	Cable trough	
$\nabla$	}	(000)	Bitumen casing (Crompton)	
		(· · · · )	Bitumen filled iron trough (Trunks)	
8		8	Bitumen casing (Tri-case)	
section continued on next page				

NetMAP system   Scanned image   Description	Abbreviations used in cross sections				
F.P or F or F.D ASB or A ASbestos P S.P or S C.I or C or C.I.P WI WI F or F.D PRD PRD  Left blank — means NR E.V  F.P or F or F.D ASbestos Plastic or pitch fibre Steel Cast iron Wrought iron pipe F or F.D Fibre duct Plastic Rigiduct Plastic Rigiduct D.N.K or D:NR N.R or N.R E.V.P or E.V  Everite pipe	NetMAP system	Scanned image	Description		
N/A   3/62 or NOV 79   Date cable laid   N/A-destination now only shown in cable attribute   ABCD etc   Please note:   Ducts are assumed to be 4"/100mm earthenware   unless otherwise stated	F A P S C WI F PRD Left blank — means NR E.V T/T N/A N/A—destination now only	F.P or F or F.D ASB or A P S.P or S C.I or C or C.I.P W.I F or F.D PRD  D.N.K or D:NR N.R or N.R E.V.P or E.V T/T 3/62 or NOV 79  ABCD etc Please note: Ducts are assumed t	Fibre duct Asbestos Plastic or pitch fibre Steel Cast iron Wrought iron pipe Fibre duct Plastic Rigiduct Depth not known No record Everite pipe Tape Tile Date cable laid HV cable destination (See section sheet HV ref)		

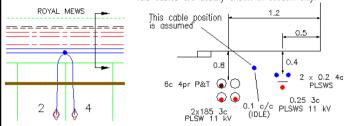
#### Typical plan and cross section representations

#### Multi-line composite NetMAP/vector representation

All areas – drawn/redrawn using NetMAP GIS

Cables shown in cross section viewed in direction of arrow.

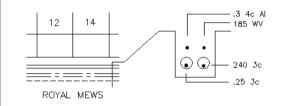
Idle cables are usually shown in section only.



Applies to all composite vector records in both shaded and unshaded areas of the anomalies map.

## Multi-line representation - general composite raster (style 1) All areas

All cables are shown on plan and represented in section. Sections may be shown in plan view or on a supplementary sheet.



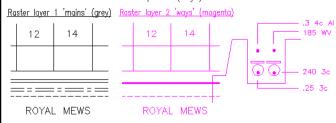
Applies to all composite raster records within the unshaded areas of the anomalies map.
Can also be found in some shaded areas — in particular the ex-North Eastern shaded greas

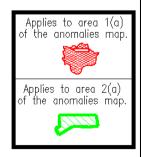
#### Main and ways representation – dual layer raster

Ex Western area Holborn and parts of Ex-South Eastern Area only

20

All cables are shown on plan and represented in cross section on a separate (ways) sheet.



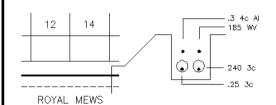


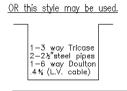
#### Typical plan and cross section representations

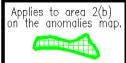
#### Single line representation - raster or vector data

The City of London only

All cables are shown as a single line in plan. Sections may be written and not drawn.



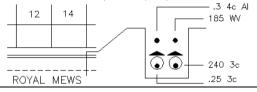


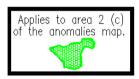


#### Multi-single line representation general (style 1)

Finsbury and Shoreditch only

Only the top cables in a vertical cable run are shown in the plan view. See the example below. Note that the two lower cables that are in ducts (in this instance), are not shown in plan. Therefore cross sections are particularly important, as each line represents one or more cables.





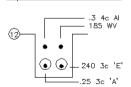
## HV and LV map representation – dual layer raster Ex-North Eastern area only

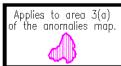
HV and LV cables are shown on separate raster layers. These layers MUST be read in conjunction with each other. Sections are shown on a combined supplementary section sheet in numerical sequence.

Raster layer 1 HV (red) Raster layer 2 LV (blue) Separate raster section sheet







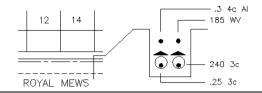


#### Typical plan and cross section representations

#### Multi-single line representation general (style 2)

Ex-North Eastern area only

In this area each voltage (HV and LV) is represented as an individual line. For example, three HV cables and four LV cables in the same run will be indicated by a single HV line and a single LV line. Therefore cross sections are particularly important, as each line represents one or more cables of that voltage.

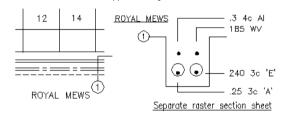




#### Multi-line representation - composite raster (style 2)

Ex North Eastern area only

All cables are individually shown in plan.
Sections are shown on a supplementary section sheet and recorded under the relevant road name.





#### Important note regarding sections:

It does not follow that if the number of cables shown in the cross section have been located, that all live cables have been found. You may have found an unrecorded cable, or a cable belonging to another authority.

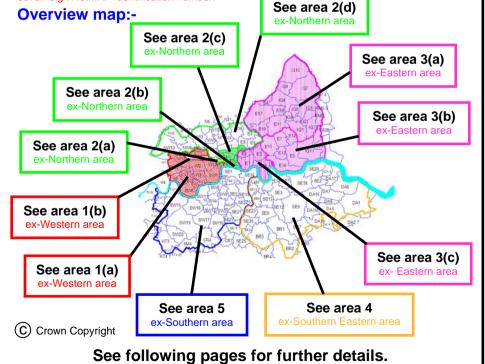
#### Regional NetMAP Anomalies - general overview:

The following pages explain the various major map style anomalies found within the London area. These styles are a legacy from the five individual London Electricity areas which were again formed from seventeen separately organised LEB districts. Areas with significant anomalies are shown in the following pages as cross-hatched areas. Areas with standard composite vector and raster layer information are shown as un-hatched areas.

Cautionary note: - any region or sub-region, either shaded or un-shaded, may contain some local anomalies not mentioned in the following pages - if in doubt, please contact the UK Power Networks Plan Provision team on telephone number 08701 963797.

All regions (1-5) will contain recently created composite vector (NetMAP/AutoCAD) data.

Recent work created using the NetMAP system and previously created using the AutoCAD system (as opposed to raster/scanned data) are recorded in the composite vector style shown on the UK Power Networks London area symbol sheet - see the first example on page 18 of this document. Recent data will be indicated by the existence of multi-coloured cables on the NetMAP system, but this may not be reflected on printed matter produced with a black and white printer. AutoCAD data looks similar to the coloured NetMAP data, but does not hold any cable 'attributes' when selected using the NetMAP system. These cables will be represented individually (multi-line representation). New NetMAP cross sections may be accessed electronically on the NetMAP system and are presented in printed format accompanied by a seven digit NetMAP identification number.



#### Region 1 ex-Western area

This region includes Westminster, Kensington, Chelsea, Hammersmith and Fulham. The region is covered by two map layer systems - region 1(a) mains and ways dual layer raster, and region 1(b) composite raster. The following explains this in greater detail.

#### Region 1(a) (hatched )



#### Mains and ways representation:

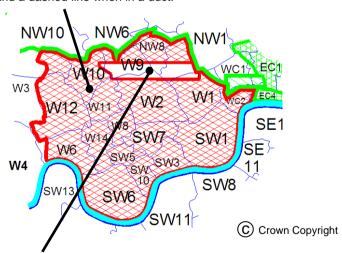
This system consists of two maps layers for the same area.

- The mains map shows all cable routes.
- The ways map shows pipe and duct routes with cross sections.

There are some enlargement sheets, cross sections and jointing details. EHV routes are shown on either the mains or the wavs map.

It is important that all these maps are read in conjunction with each other.

Caution: - It is also important to note that the kerb line detail on these maps is a dash/dot line, which on the majority of UK Power Networks Central (London) records would refer to an HV cable route. HV cables are shown as a solid line when laid direct and a dashed line when in a duct.



#### Region 1(b) (un-hatched )

#### Composite single layer (style 1) maps:

Whenever possible, all the information is on one map layer. There are some enlargement sheets in the Aberdeen Place area. Please note that the kerb line is shown as a dotted line and HV cables are shown as dash/dot lines.

#### Region 2 ex-Northern area

This region includes Islington, Hackney, the City of London and parts of Brent. Camden and Ealing. The region is covered by four map layer systems - Region 2(a) - mains and ways dual layer raster (Holborn area). Region 2(b) - single line representation (City of London), Region 2(c) - multi-single line representation (Finsbury and Shoreditch) and Region 2(d) - composite multi-line maps (all other areas). This following explains this in greater detail.

#### Region 2(a) (hatched )

Covers part of WC1 and WC2 (Holborn).

#### Mains and ways representation:

This system consists of two maps layers for the same area.

- The mains map shows all cable routes.
- ii) The ways map shows pipe and duct routes with cross sections.

Where needed, extra sheets have been added for enlargements, cross sections and jointing details. EHV routes are shown on the mains map layer.

#### It is important that all these maps are read in conjunction with each other.

Caution: - It is also important to note that the kerb line detail on these maps is a dash/dot line, which on the majority of UK Power Networks Central (London) records would refer to an HV cable route. HV cables are shown as a solid line when laid direct and a dashed line when in a duct.

NW3 N7 N5 C Crown Copyright W3 Region 2(b) (hatched

Covers parts of postal areas EC1, EC2 and all of postal areas EC3 and EC4.

#### Single line representation maps:

Whenever possible, all the information is on one map layer .One line can represent any number of cables or ducts. It is therefore very important to use cross sections. In some cross sections details may be written and not drawn. In complex and redrawn areas, some detail may be drawn using multi-line representation. There are some enlargement sheets.

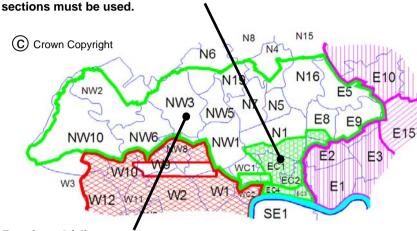
#### Region 2(c) (hatched )



Covers parts of postal areas EC1, EC2, N1, E1, E2 and E8,

#### Multi-single line representation (style 1) maps:

Whenever possible, all the information is on one map layer. When cables lay immediately above/below each other, it is shown as a single line. For example if six cables lay three on three, only three lines would indicate the six cables. If the cables were laid flat, six separate lines would be shown. It is therefore important not to assume that the lines drawn indicate the number of cables, at any point, Cross



#### Region 2(d) (un-hatched)

Covers all other postal areas in this region

#### Composite single layer (style 1) maps:

Whenever possible, all the information is on one map layer. There are some enlargement sheets.

#### Region 3 ex-North Eastern area

This region includes Tower Hamlets, Newham, Redbridge, Waltham Forest, Loughton (Epping) and Barking and Dagenham. This region is covered by three mapping systems.

Region 3(a) (hatched

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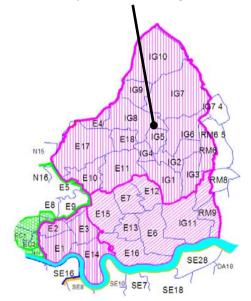
#### Separate HV and LV representation maps:

This system consists of two maps layers for the same area.

- i) The HV map layer showing HV cables and duct routes.
- The LV map layer showing LV cables and duct routes.

Cross sections for both HV and LV cable routes are shown on a separate sheet. EHV cable routes are shown on the HV map layer.

It is important that all these maps are read in conjunction with each other.

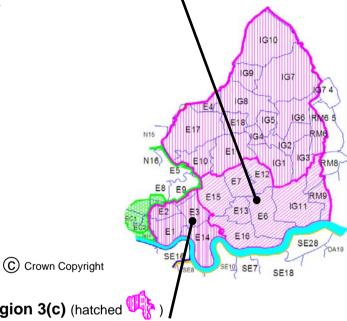


Region 3(b) (hatched



#### A combination of composite single layer (style 1) and multi-single line (style 2):

Whenever possible, all the information is on one map layer. There are some enlargement sheets. There is a combination of map styles used in this area. Some areas may be conventional multi-line line representation with many areas of multisingle line representation. In the multi-line areas each (live) cable is shown individually in plan. In the multi-single line map areas, there is a single line for each voltage type, with a single HV line and a single LV line representing more than one cable run of each voltage (when applicable). Therefore a cable run containing three HV cable and four LV cables will be represented by one HV line and one LV



Region 3(c) (hatched

#### A combination of composite single layer (style 2) and multi-single line (style 2):

Whenever possible, all the information is on one map layer. There are some enlargement sheets. In this area (postal code areas E1, E2, E3, E14 and part of E9), the cross sections are listed under each road name. It is therefore extremely important that you have the correct cross sections for the road you are working in.

There is a combination of map styles used in this area. Most areas are composite single layer (style 2) with some areas of multi-single line representation, as described in region 3(b).

#### Region 4 ex-South Eastern area

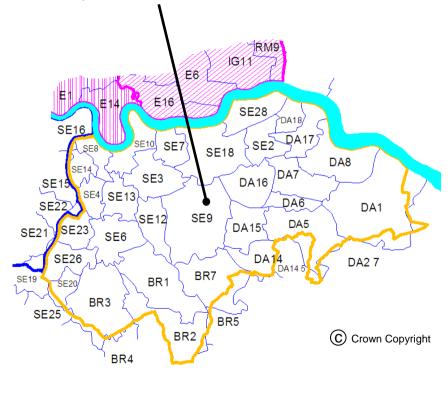
This region includes Lewisham, Greenwich, Bromley, Bexley and Dartford.

Nearly all maps are drawn in one style – single layer composite raster/vector.

#### Region 4 (un-hatched)

## Composite single layer (style 1) with a small number of mains and ways representation maps :

Mainly composite maps - whenever possible, all the information is on one map layer. There are some enlargement and cross section sheets. Some maps do not show single phase services unless they are long and deviating. There are however some maps drawn using the mains and ways style. These are rare, but please be aware that they exist.



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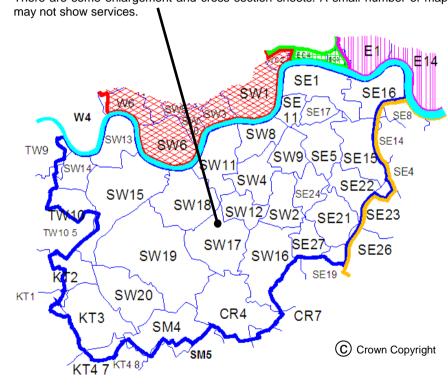
#### Region 5 ex-Southern area

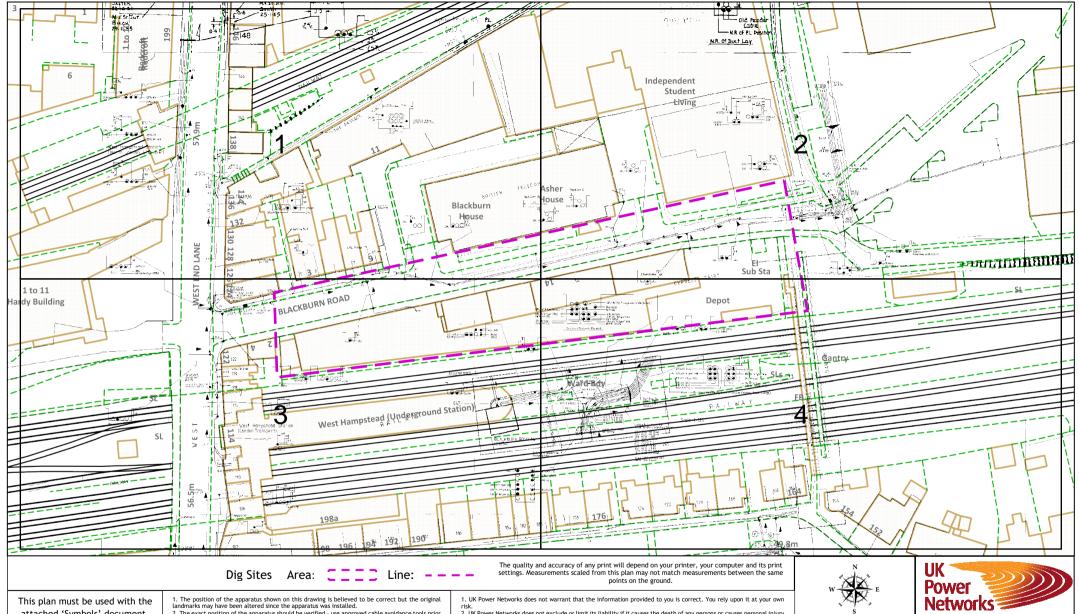
This region includes Southwark, Lambeth, Wandsworth, Merton, Kingston upon Thames and Richmond upon Thames. All maps are drawn to one style - single layer composite raster/vector.

#### Region 5 (un-hatched)

#### Composite single layer (style 1) maps:

Composite maps - whenever possible, all the information is on one map layer. There are some enlargement and cross section sheets. A small number of maps may not show services.





attached 'Symbols' document.

Date Requested: 25/03/2025 Job Reference: 36742219

Site Location: 525546 184662

Requested by: Mr Bradley Inston Your Scheme/Reference: 428955

Scale: 1:1025 (When plotted at A4)

- 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,
- 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.
- 2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury
- 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach 25 Subject to paragraph of Novement Network is reas not labeling to you in footback, in our fulfuluring inegrate, in on treat of statutory duty or other where 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, los of oppositions, loss (including advinute, limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of oppositions, loss of profit and loss of the loss of 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.
- 5. 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.
- 6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.



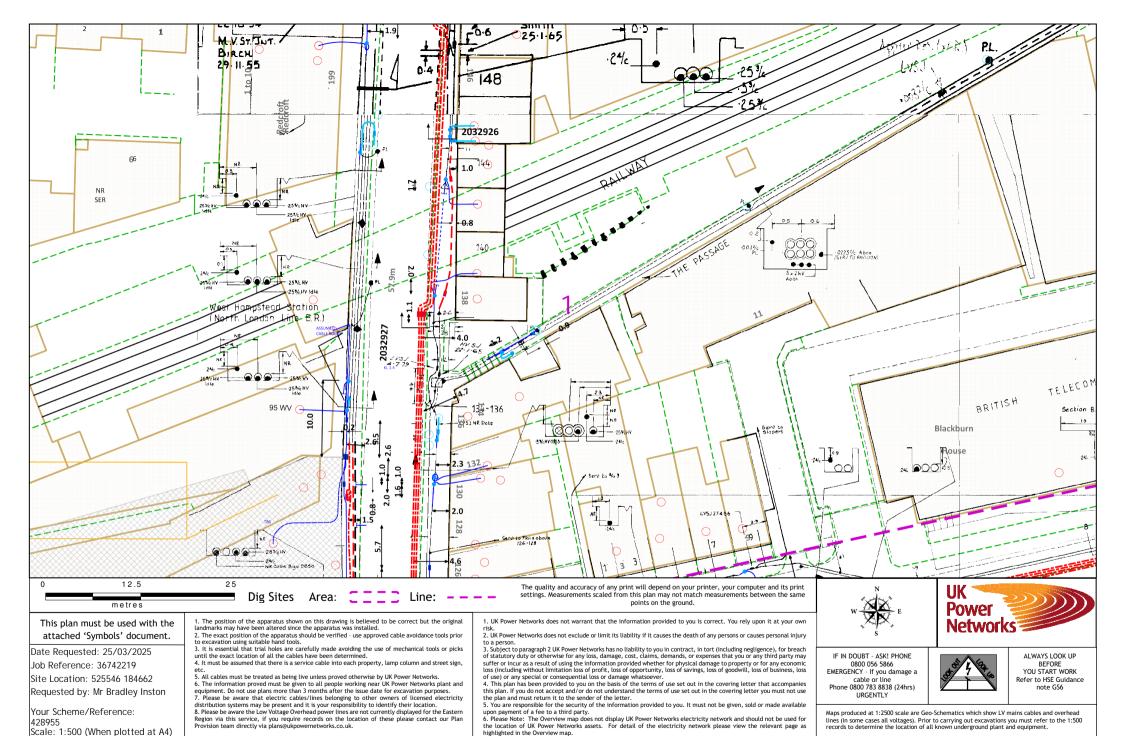
IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY



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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