

**From:** [REDACTED]  
**Sent:** 12 February 2024 08:21:22  
**To:** Planning Reps  
**Cc:**  
**Subject:** Plant Enquiry Ref Job No. 32423474  
**Attachments:** UKPN\_32423474.pdf; UKPN Customer Letter.pdf; Excavation leaflet JACKHAMMER\_DIGI.pdf; London\_symbol\_guides.pdf

CAUTION: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe. Remember your cyber security training and report anything suspicious.

12/02/2024

LinesearchbeforeUdig ref: 32423474

Your ref: DA/24/00154/FUL

Dear Sir/Madam,

Thank you for contacting us

Please see attached information specific to your enquiry:

1. Plan (Please print in colour)
2. Letter
3. Other safety related information : Think+before+you+dig+underground.pdf

The Plan is an extract from our mains records of the proposed work area enclosed for your guidance. This plan only shows the cables and overhead lines owned by UK Power Networks. Please note that privately owned electricity cables or ones owned by other Independent Network Operators may be present in this area and information regarding those cables needs to be requested from the owners.

The accuracy of the information shown on this plan cannot be guaranteed. Please read the information and disclaimer on these plans carefully. The information included on the plan is only valid for 3 months however please note our data is updated daily.

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

Safe digging practices, in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all relevant people (direct labour or contractors) working for you on or near electricity assets.

Damage to our cables can be extremely dangerous for your employees and the general public.

If you require any further information please contact the number below.

Network Feedback Tool

To help improve the accuracy of its electrical asset plans, UK Power Networks is inviting all users to submit feedback when they have worked around its network. Providing information on any inaccuracies, damage or missing network, could help UK Power Networks to enhance their plans and try to ensure safer working for others.

It should only take a few minutes of your time and any response will be greatly appreciated.

[will take you to the feedback form.](#)

[Alternatively, you can use your mobile device to scan the QR code provided in your plans package.](#)

[Yours sincerely,](#)

[UK Power Networks](#)  
[Plan Provision Team](#)

[plans@ukpowernetworks.co.uk](mailto:plans@ukpowernetworks.co.uk)

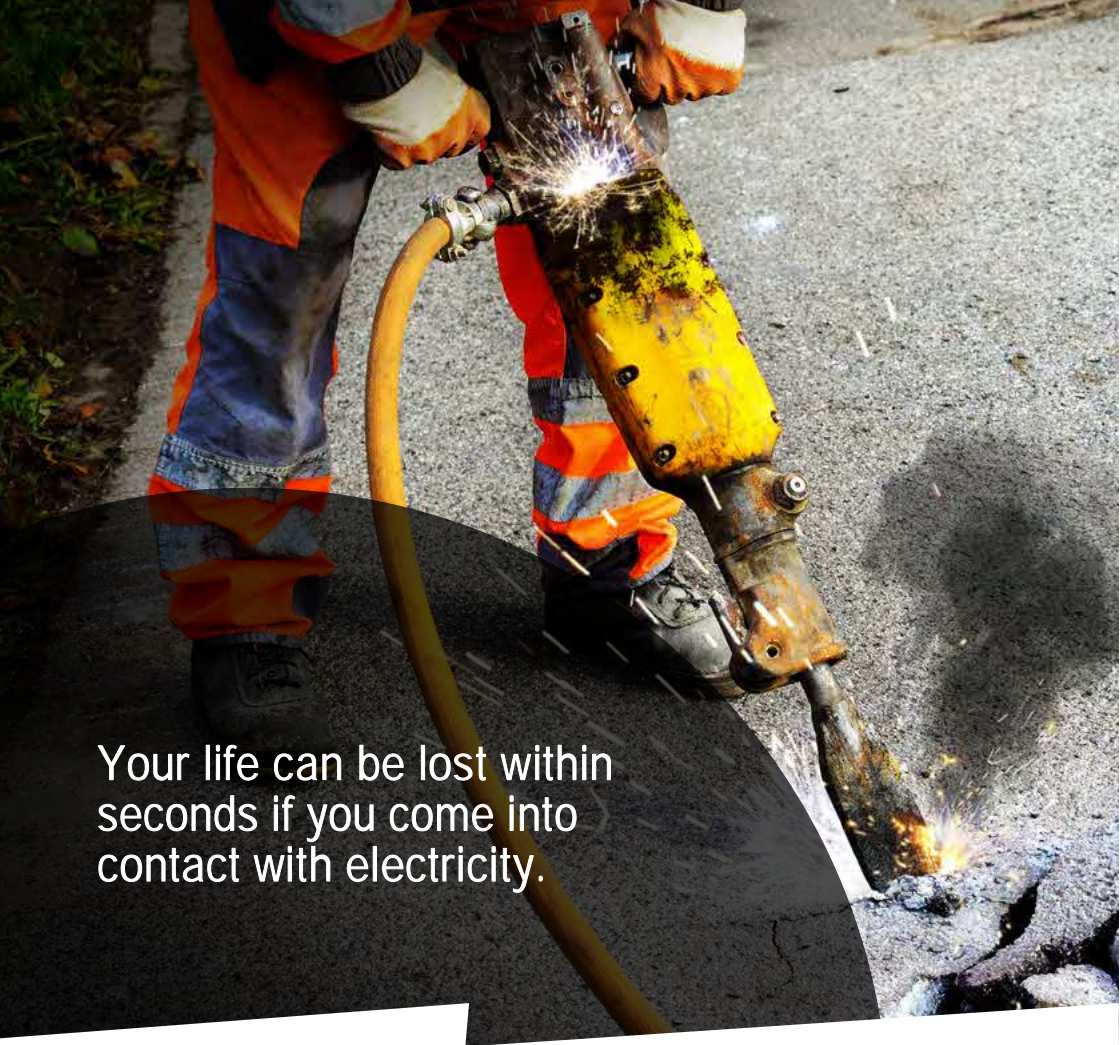




Be Bright

Stay Safe

Stop!  
Think before  
you dig!



Your life can be lost within seconds if you come into contact with electricity.

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.

WOODEN POLES CAN CARRY TELEPHONE AND ELECTRICITY WIRES. NEVER ASSUME THE WIRE IS A TELEPHONE WIRE



LINES CAN BE RE-ENERGISED AT ANY TIME



400,000 VOLTS

ELECTRICITY SYSTEMS CARRY VOLTAGE UP TO 400,000 VOLTS. EVEN 230 VOLTS (DOMESTIC VOLTAGE) CAN BE LETHAL

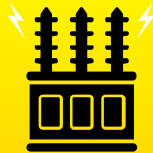
Be Bright

Stay Safe



RUBBER BOOTS WILL NOT PROTECT YOU!

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



National power cut helpline

POWER CUT?  
CALL 105

OR CALL US 24 HOURS A DAY ON  
0800 31 63 105

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



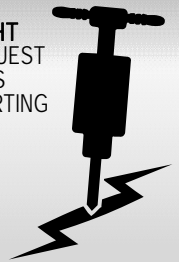
REMEMBER ELECTRICITY CAN JUMP GAPS



OVERHEAD POWER LINES ARE OFTEN UNINSULATED (BARE)



CABLES ARE OUT OF SIGHT ALWAYS REQUEST CABLE PLANS BEFORE STARTING WORK



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



CARRY OBJECTS AND EQUIPMENT HORIZONTALLY AND AT LOW LEVEL TO THE GROUND



# 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.



**WATCH OUR EXCAVATION ANIMATION BY SCANNING THE QR CODE WITH YOUR PHONE CAMERA.**



# Keep well away - Electricity can kill



## 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



# 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

**STOP THINK BEFORE YOU DIG!**

Contact with underground electricity cables can cause **DEATH**

**PLAN IT OUT.**  
Always contact UK Power Networks before you start work on:  
**0800 056 5866**

**WORK SAFE - STAY SAFE - GO HOME SAFE**

24hr Emergency number:  
**0800 31 63 105**  
dial 105

**UK Power Networks**  
Delivering your electricity

To request your FREE vehicle cab stickers visit [www.ukpowernetworks.co.uk/internet/en/safety/](http://www.ukpowernetworks.co.uk/internet/en/safety/)


If you are unsure who your network operator is then please visit [www.energynetworks.org](http://www.energynetworks.org)





**Be Bright**

**Stay Safe**

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


 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.linesearchbeforeudig.co.uk](http://www.linesearchbeforeudig.co.uk)  
or [www.ukpowernetworks.co.uk](http://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](http://www.ukpowernetworks.co.uk)

NATIONAL POWER CUT HELPLINE

**POWER CUT?  
CALL 105**



ADD THIS NUMBER TO YOUR  
TELEPHONE CONTACTS LIST





# Stop! Think before you dig!

#bebrightstaysafe



@UKPowerNetworks



/ ukpowernetworks

National power cut helpline

**POWER CUT?  
CALL 105**



Or call us  
24 hours a day on  
**0800 31 63 105**

For safety advice about overhead power lines,  
disconnections and general enquiries, go to:  
[www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk)

To request your FREE vehicle cab stickers visit  
[www.ukpowernetworks.co.uk/internet/en/safety/](http://www.ukpowernetworks.co.uk/internet/en/safety/)

If you are unsure who your network  
operator is then please visit  
[www.energynetworks.org](http://www.energynetworks.org)

 what3words



Scan the QR code on your  
phone to get the app

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.



**UK  
Power  
Networks**  
Delivering your electricity

A graphic consisting of several white, curved, concentric lines that resemble a stylized power line or a signal wave, positioned to the right of the text.



# 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

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## 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)
7	Primary distribution cables (EHV).
8	Secondary distribution cables (LV/HV).
9	Cable terminology.
10	Cable size abbreviations.
11	Cable ducts.
12	Other NetMAP symbols.
15	Services.
17	Symbols used in cross sections.
19	Abbreviations used in cross sections.
20	Typical plan and cross section representations: <ul style="list-style-type: none"><li>All areas: NetMAP/vector.</li><li>All areas: composite raster style 1.</li><li>Ex-Western area and Holborn: main and ways.</li><li>The City of London: single line.</li><li>Finsbury and Shoreditch: multi-single line style 1.</li><li>Ex-North Eastern area: HV/LV.</li><li>Ex-North Eastern area: multi-single line style 2.</li><li>Ex-North Eastern area: composite raster style 2.</li></ul>
23	Regional NetMAP anomalies - general overview.
24	Region 1: ex-Western area.
25	Region 2: ex-Northern area.
27	Region 3: ex-North eastern area.
29	Region 4: ex-South Eastern area.
30	Region 5: ex Southern area.

(ii)

## 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

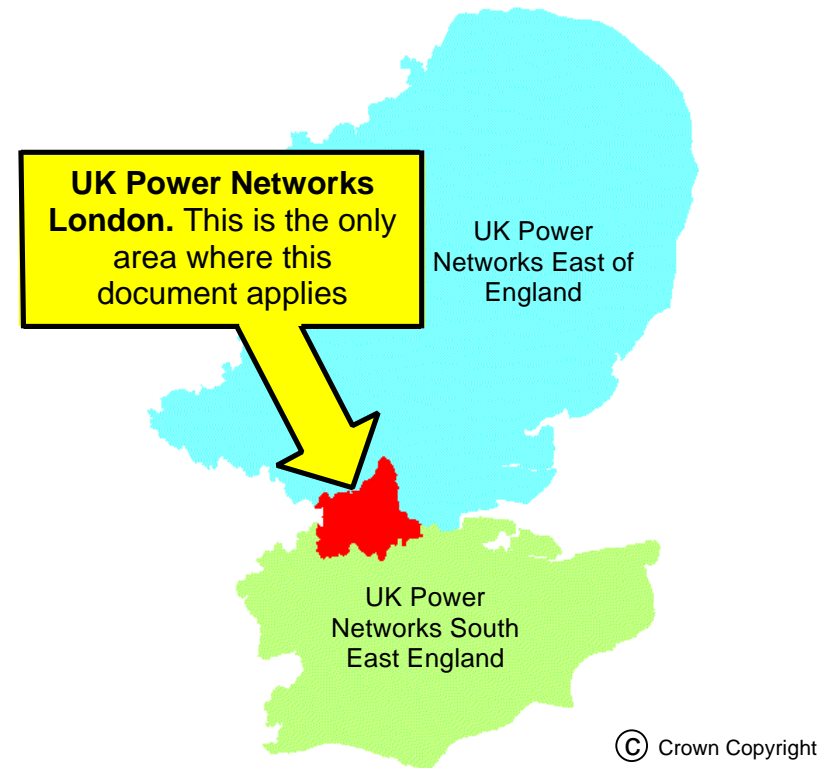
**Tel: 08000 565866.**

- 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.













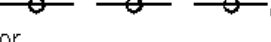


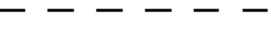









**Plan Provision Team  
Fore Hamlet  
Ipswich  
Suffolk IP3 8AA  
Tel: 08000 565866**

## The area covered by this guide:









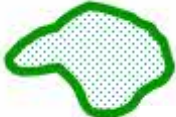
Please see the anomalies map at the end of this safety booklet for greater map area detail, and a breakdown of the more significant anomalies within the London area.

Scenery		
NetMAP system	Scanned image	Description
		100 metre Ordnance Survey grid line (on O/S based maps only)
		Property fence line
		Building line
		Kerb line
		Kerb line on majority of ways & mains maps
		Cable tunnel or subway
NOT APPLICABLE		Borough or City boundary and UK Power Networks boundary
		
		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)
	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)
<p>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 <a href="http://www.linewatch.co.uk">www.linewatch.co.uk</a> for contacts and guidance. Pipeline contact numbers can also be found on the intranet –out of hours, contact our Control Centre.</p>		
	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)









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






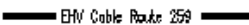

NetMAP system	Scanned image	Description
	Not applicable	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)
	Not applicable	Historical - 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)

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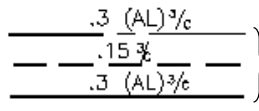
**Scenery for UK Power Networks use only - boxed in red**

NetMAP system	Scanned image	Description
	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

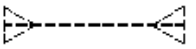
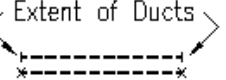
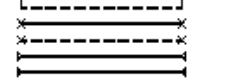

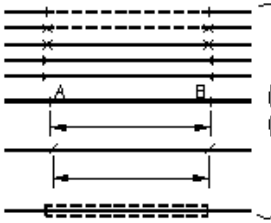
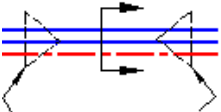
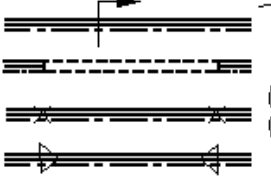


NetMAP system	Scanned image	Description
 Solid  Gas  Oil  Cable stop  Shallow	 EHV Cable Route 259  Not applicable  	UK Power Networks route (11,000 , 22,000 to 132,000 volts)  Oil/gas cable stop  Part of UK Power Networks cable route where cover is less than normal

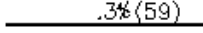

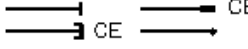

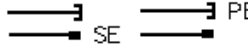

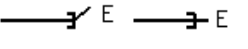

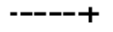


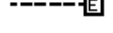


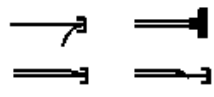





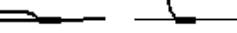



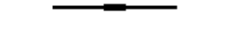

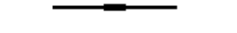
## Secondary distribution cables

NetMAP system	Scanned image	Description
(20kV)  (11kV)  (6.6kV)          	 $.3 (AL)^{3/2}$ $.15 \frac{3}{2}$ $.3 (AL)^{3/2}$  $185 \frac{4}{6}$  $.0225 \frac{3}{6}$  Not applicable  Not applicable  Not applicable  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 live cables

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

Cable size abbreviations		
NetMAP system	Scanned image	Description
1c	1/c	Single core.
c/c	2/c	Concentric cores
t/c	1/2 or T/cc	Triple concentric cores
4c	4/c	Four cores
3c CNE	3/c (CNI)	Three cores and concentric neutral – not of the Waveconal type
2c	2/c (or Tw)	Two cores (or twin)
s/c	5/c	Split concentric cores
3c	3/c	Three cores
DC	DC	Direct current
P	P	Pilot
Pr	Pr	Number of telephone pairs

Cable ducts		
NetMAP system	Scanned image	Description
	 <p>Extent of Ducts</p>	Single empty ducts
		Cluster of empty ducts (two or more)
		Cable in single duct
		Group of cables shown in a cluster of ducts, plus one or more empty (shown in section)
	 <p>Extent of Ducts</p>	 <p>Extent of Ducts</p>
	<p>On City of London area maps "extent of ducts" symbols are not in general use as most duct runs are between pits or boxes</p>	

Other NetMAP symbols			
NetMAP system	Scanned image	Description	
<p>0.3 4c AL PLSWS (Details also in cable attributes and/or section)</p>		Cable size (and year laid)	
		Cable capped end	
		Cable pressure (or pot) end or signal end	
		Pressure/pot end & earth cable/electrode	
		Earth rod (vertical)	
			Earth rod (horizontal)
			Earth plate
			Earth plate or end
		Bottle or trouser joint or combined crutch & pressure end - (CPE)	
		Straight joints	
		Tee joints	
		Crutch (or spur) joints (CJ) straight & crutch joints combined (S&CJ)	
		Double crutch (or spur) joint	
		Sleeve	
		<p>UT (Disconnected universal tee)</p>	
<b>section continued on next page</b>			



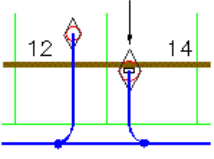
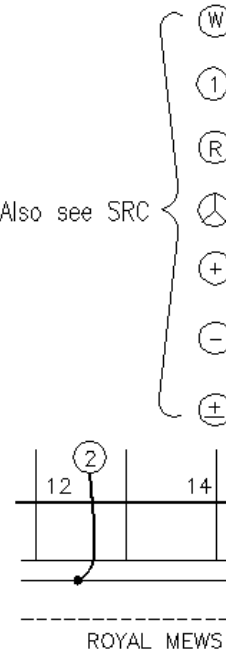
### Other NetMAP symbols



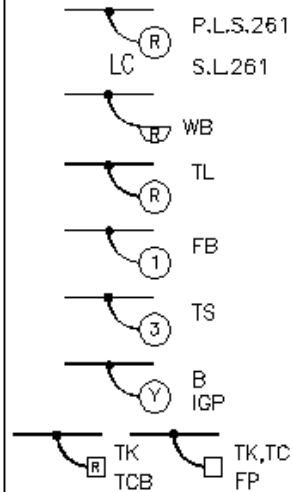
NetMAP system	Scanned image	Description
		Four way underground disconnecting boxes(DB)
		Link boxes(LB)
		Network boxes(NB) or (NWB)
		4 way 6 entry
		6 way box
		6 way 8 entry
		Split bus-bar
		Link box with identification number
		3 way underground disconnecting boxes
		2 way underground disconnecting boxes
		1 way underground disconnecting boxes
		Feeder pillars
		Split bus-bar distribution pillar
		Double bus-bar distribution pillar
		Blind pit/pit
		Pit with access

section continued on next page
























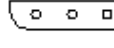


### Other NetMAP symbols

NetMAP system	Scanned image	Description
		Transformer chambers (T/C) & transformer compounds
		Underground transformer chamber
		Missing data in or near this location
		Underground tank
		Indicates service between separate buildings is looped
		Jointing schedule numbers or phasing diagram
		Contaminated land reference
		Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar

Services		
NetMAP system	Scanned image	Description
<p>SRC = Service Record Card</p> <p>To a property/metered supply (also see SRC)</p> <p>Address point ◇</p> <p>Supply point ○</p> <p>Also see SRC and joint/cable attributes</p> <p>Service in external cabinet</p>  <p>ROYAL MEWS</p> <p>Also see SRC and joint/cable attributes</p>		
	<p>Also see SRC</p>  <p>ROYAL MEWS</p>	<p>(W) Single phase service</p> <p>(1) Connected to 1 core &amp; neutral</p> <p>(R) Connected to red core &amp; neutral</p> <p>(3) Three phase service</p> <p>(+) Connected to inner &amp; outer cores of triple conc cable</p> <p>(-) Connected to middle &amp; outer cores of triple conc cable</p> <p>(±) Connected to all three cores of triple conc cable</p> <p>Existence of a service with its core connection shown in circle</p>
<b>section continued on next page</b>		













Services		
NetMAP system	Scanned image	Description
	<p>To street furniture/un-metered supply (also see SRC)</p>	
<p>Please note that newly edited street furniture no longer has an address point or an SRC</p>  <p>(Street furniture general)</p>  <p>(Street furniture feeder pillar or cabinet)</p>	 <p>P.L.S.261 Public lighting</p> <p>S.L.261 Street lighting</p> <p>WB Wall bracket</p> <p>TL Traffic light control</p> <p>FB Flashing beacon</p> <p>TS Traffic sign</p> <p>B IGP Bollard/illuminated guard post</p> <p>TK, TC Telephone kiosk, traffic controller, feeder pillar</p> <p>FP</p>	

### Symbols used in cross sections

NetMAP system	Scanned image	Description
		Cable laid direct
		Cable laid in duct
		Blocked duct (sometimes used for unidentified cables)
		Single earthenware duct
		Single steel pipe
		Square cable duct
		Group of circular ducts
		Group of circular ducts (Sykes)
		Group of square ducts (Doulton)
		Cable trough
		Bitumen casing (Crompton)
		Bitumen filled iron trough (Trunks)
		Bitumen casing (Tri-case)

section continued on next page

### Symbols used in cross sections

NetMAP system	Scanned image	Description
		Protective slab
		Tiles.
		Concrete slabs
		Steel plate
		Plastic tile tape
Timber 		Timber

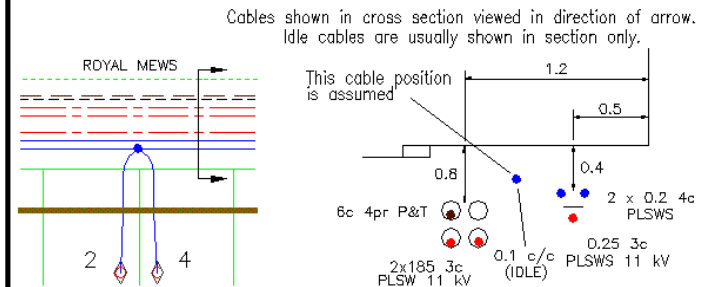
## Abbreviations used in cross sections

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

## Typical plan and cross section representations

### Multi-line composite NetMAP/vector representation

All areas – drawn/redrawn using NetMAP GIS

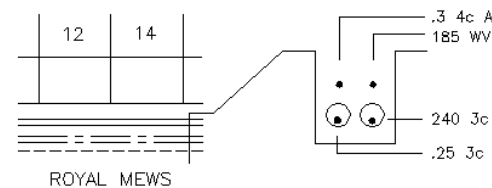


Applies to all composite vector records in both shaded and unshaded areas of the anomalies map.

### 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.

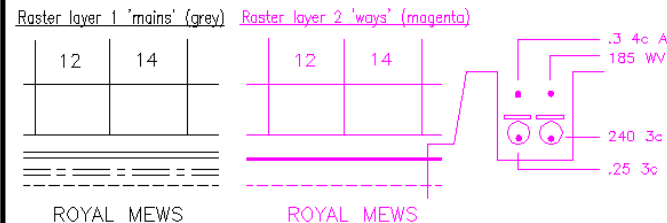


Applies to all composite raster records within the unshaded areas of the anomalies map.  
Can also be found in some shaded areas – in particular the ex-North Eastern shaded areas 3 (b) and 3 (c)

### Main and ways representation – dual layer raster

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

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



Applies to area 1(a) of the anomalies map.



Applies to area 2(a) of the anomalies map.



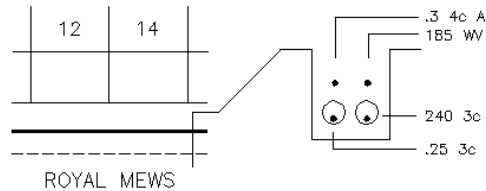
## Typical plan and cross section representations

### Single line representation - raster or vector data

The City of London only

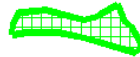
All cables are shown as a single line in plan.  
Sections may be written and not drawn.

OR this style may be used.



1-3 way Tricase  
2-2½" steel pipes  
1-6 way Doulton  
.4% (L.V. cable)

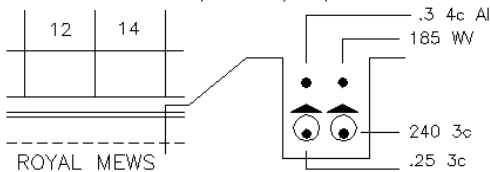
Applies to area 2(b)  
on the anomalies map.



### 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.



Applies to area 2 (c)  
of the anomalies map.

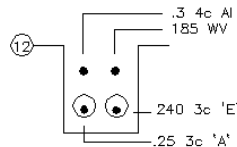
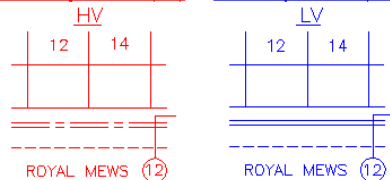


### HV and LV map representation – dual layer raster

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



Applies to area 3(a)  
of the anomalies map.

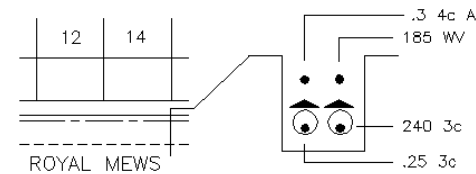


## Typical plan and cross section representations

### 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.



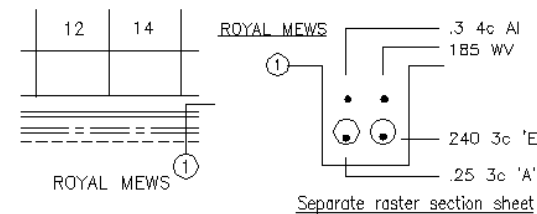
Applies to area 3 (b)  
of the anomalies map.



### 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.



Applies to area 3(c)  
of the anomalies map.



### 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:

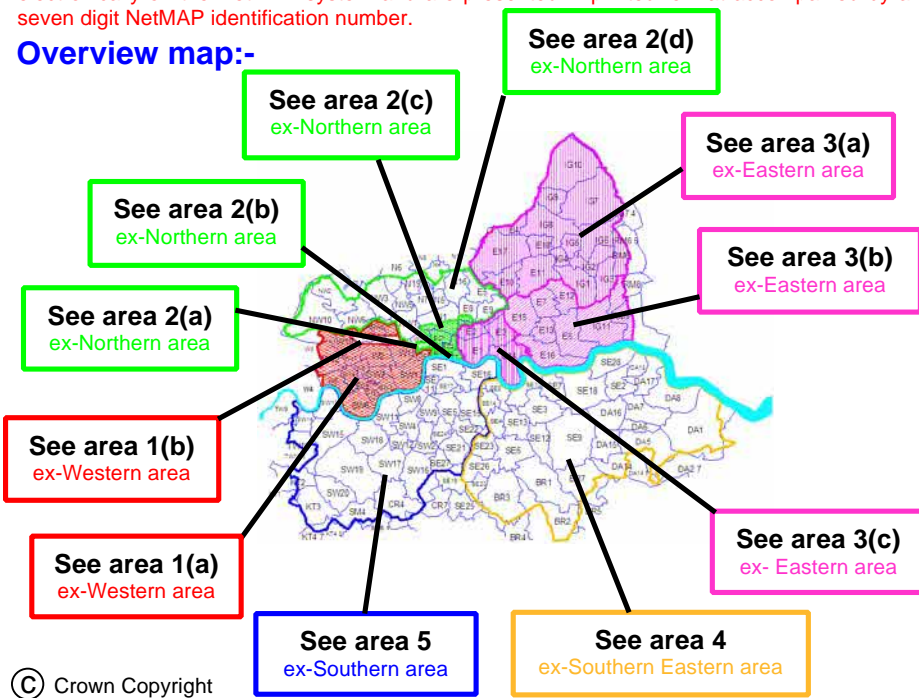
The following pages explain the various major map style anomalies found within the London area. These styles are a legacy from the five individual London Electricity areas which were again formed from seventeen separately organised LEB districts. Areas with significant anomalies are shown in the following 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.


### Overview map:-



See following pages for further details.

## 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:**

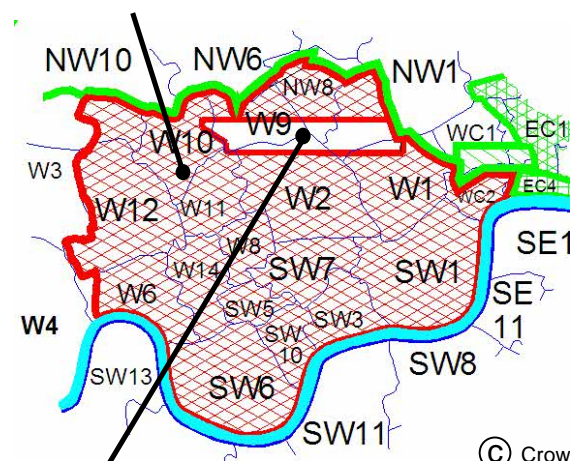
This system consists of two maps layers for the same area.


- 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 ways 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:

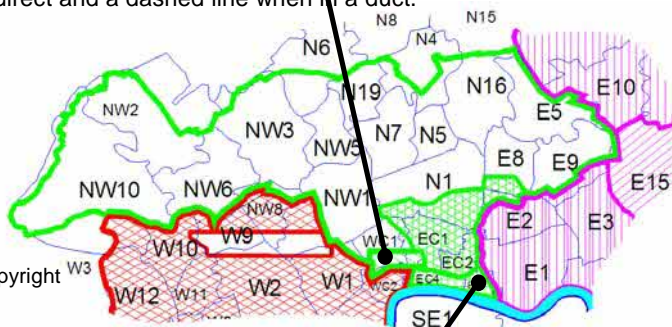
This system consists of two maps layers for the same area.

- i) 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.



### 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.

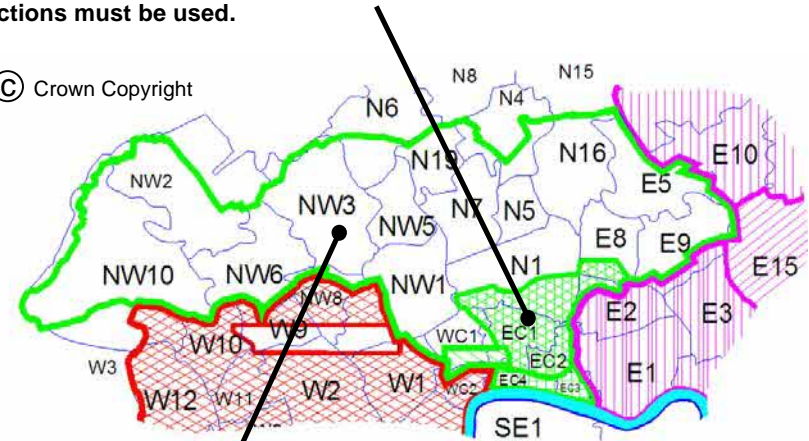
### Region 2(c) (hatched )

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 sections must be used.**

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### 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 )

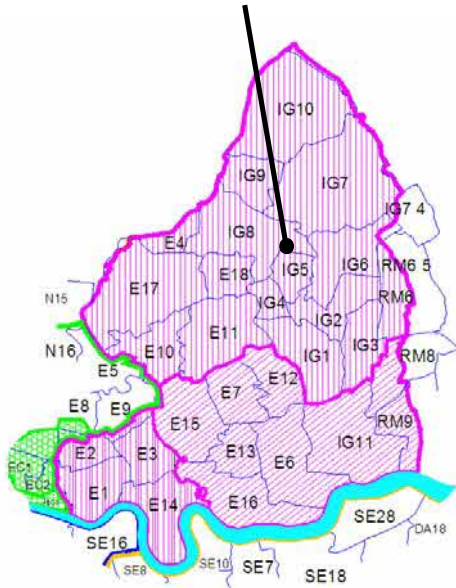
#### Separate HV and LV representation maps:

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

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

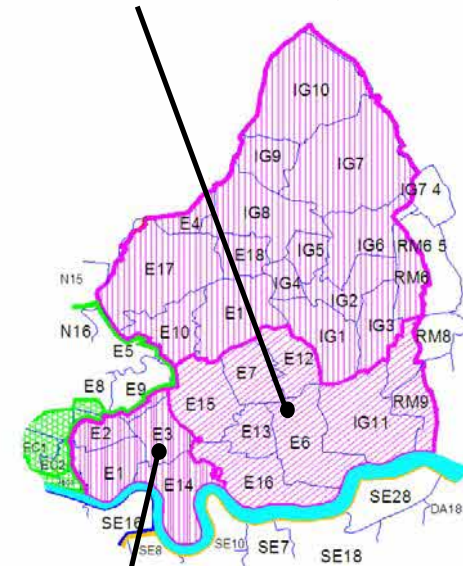


© Crown Copyright

### 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 multi-single 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 line.



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### 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).



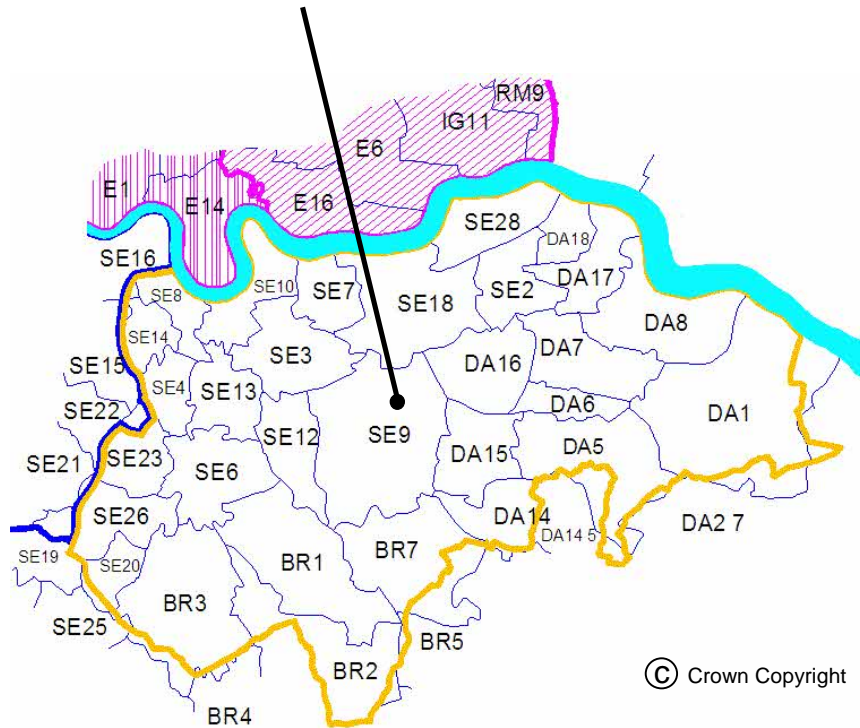
## Region 4 ex-South Eastern area

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.



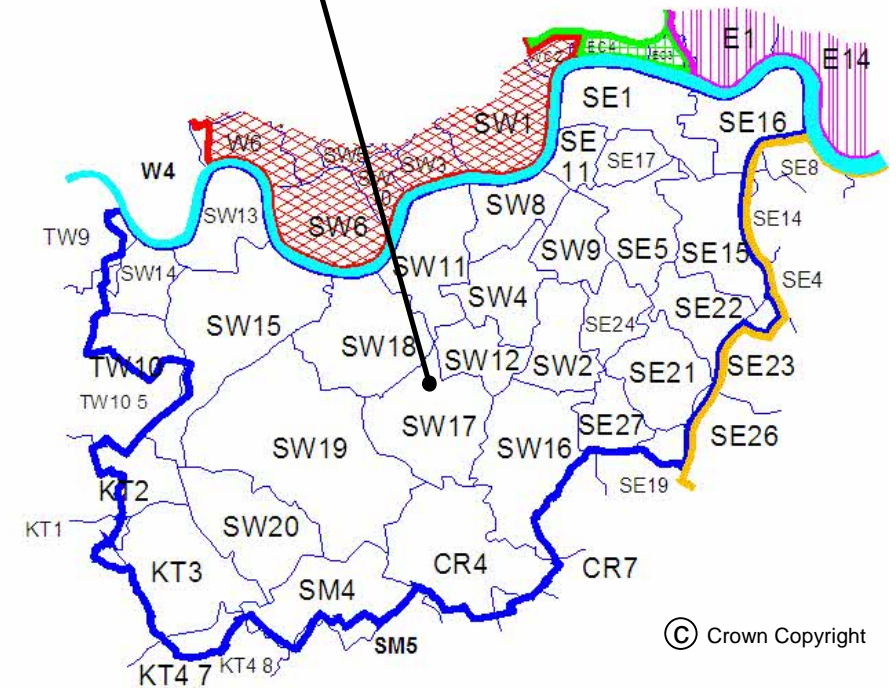
## Region 5 ex-Southern area

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.



Our Ref: 32423474      Your Ref: DA/24/00154/FUL

Monday, 12 February 2024

[REDACTED]  
Dartford Borough Council Civic Centre  
Dartford  
Kent  
DA1 1DR

Dear [REDACTED]

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  
[REDACTED]



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

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

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

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

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

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



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

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

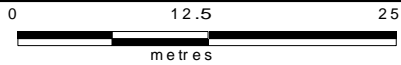
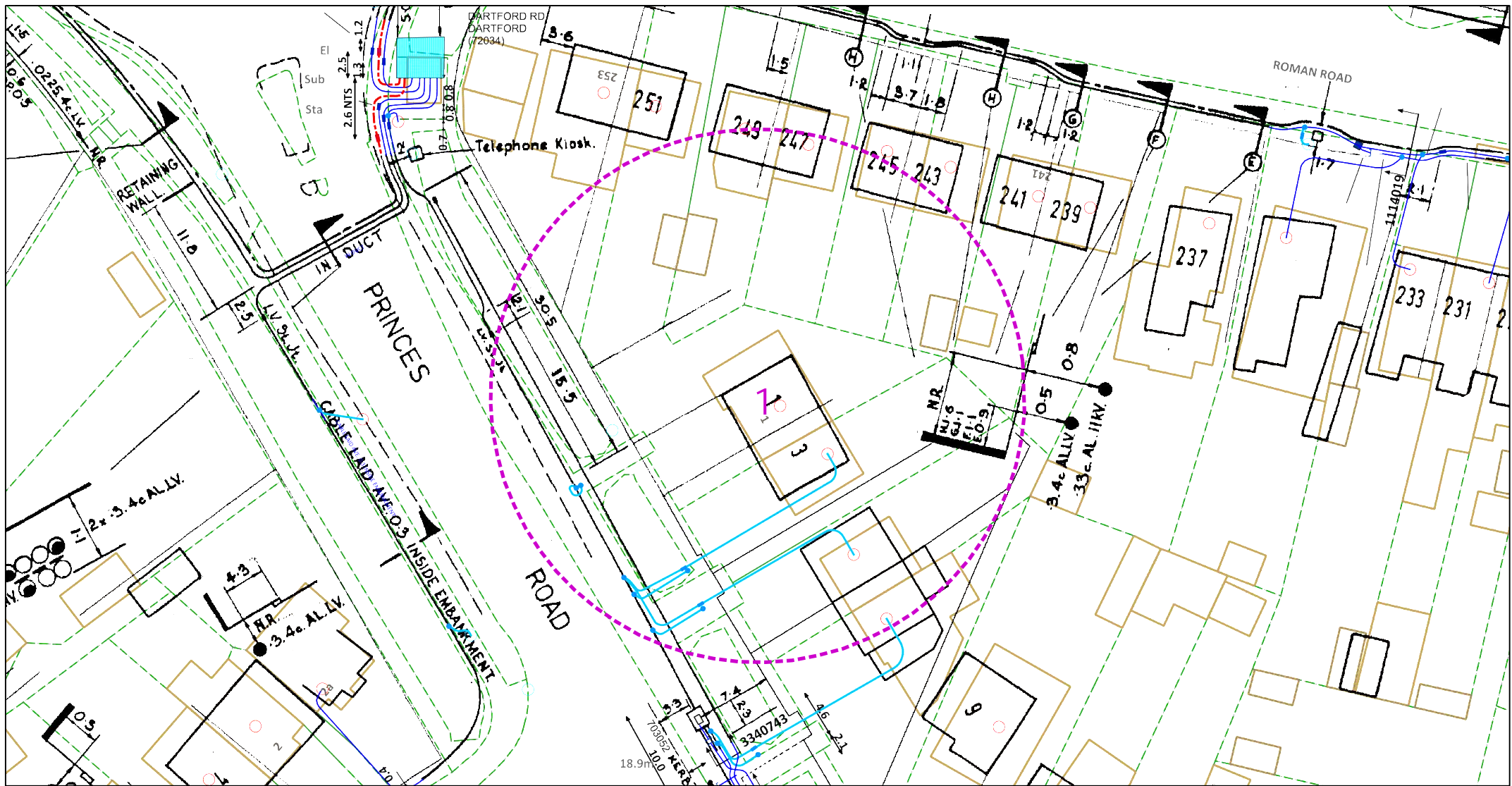
If given a reasonable period of prior notice UK Power Networks will attend on site without charge to advise how and where "goal posts" should be erected. If you wish to use this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday.

10. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
11. If in carrying out work on land in, on, under or over which is installed an electric line and/or electrical plant that belongs to UK Power Networks you and/or anyone working on your behalf damages (however slightly) that apparatus you must inform immediately UK Power Networks by our emergency 24 hour three digit telephone number 105 providing;

your name, address and telephone number;  
the date, time and place at which such damage was caused;  
a description of the electric line and/or electrical plant to which damage was caused;  
the name of the person whom it appears to you is responsible for that damage;  
the nature of the damage.

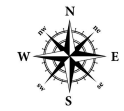
12. The expression "UK Power Networks" includes UK Power Networks (EPN) plc, UK Power Networks (LPN) plc, UK Power Networks (SEPN) plc, UK Power Networks and any of their successors and predecessors in title.





Dig Sites Area:    Line:  

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.



This plan must be used with the attached 'Symbols' document.  
 Date Requested: 12/02/2024  
 Job Reference: 32423474  
 Site Location: 552275 174406  
 Requested by: Mrs Jan Jennings  
 Your Scheme/Reference: DA/24/00154/FUL  
 Scale: 1:500 (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 provided 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.

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 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.
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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

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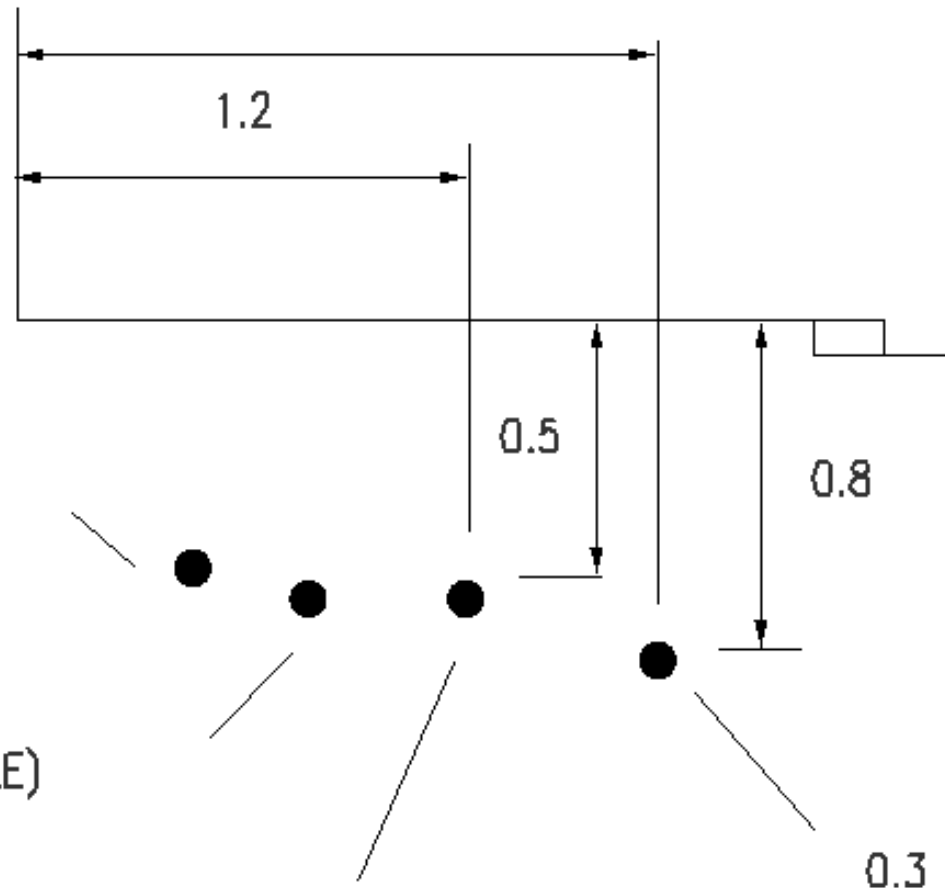
Cross Section : 1114019

DC MAIN (IDLE)

0.075 4c (IDLE)

0.3 4c AL

0.3 3c AL 11kV



Cross Section

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 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.  
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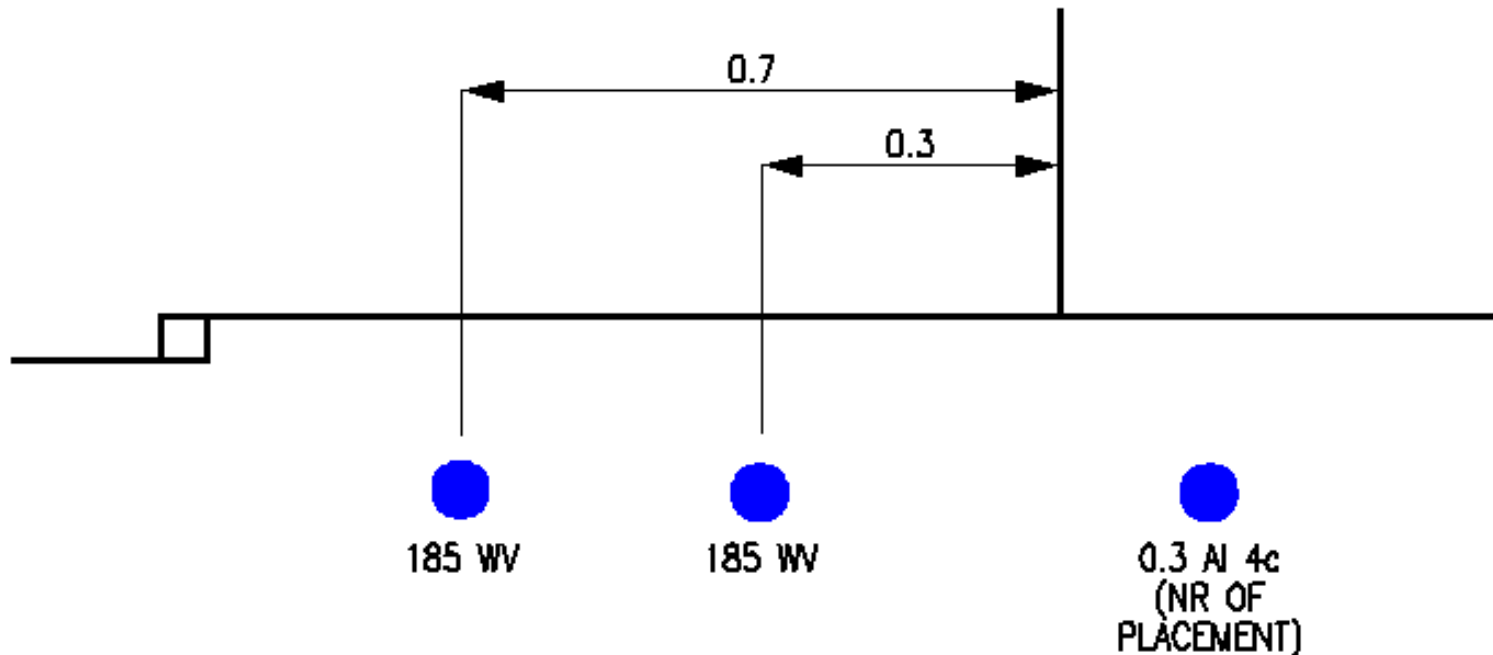
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# Cross Section : 3340742

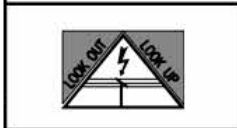


# Cross Section 3340742

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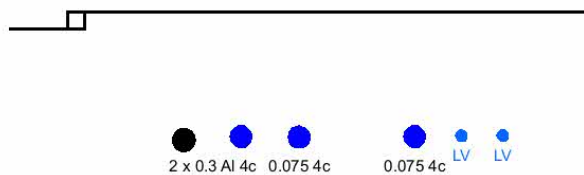
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# Cross Section : 3340743



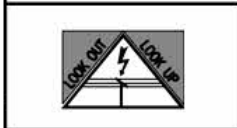
NR OF CABLE CONFIGURATION

## Cross Section 3340743

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## UK Power Networks Feedback Tool

Please help UK Power Networks improve the accuracy of their network records and help make it safer for all those working around them in future.

All you need to do is:

1. Use your phone camera to scan the QR code:
2. Provide feedback on what you have found on site (good or bad)
3. Upload a photo if needed



Thank you for making the area a safer place to dig.

**UK Power Networks, working with LSBUD**