

This plan must be used with the attached 'Symbols' document.

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2. The exact location 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 is ascertained.
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.

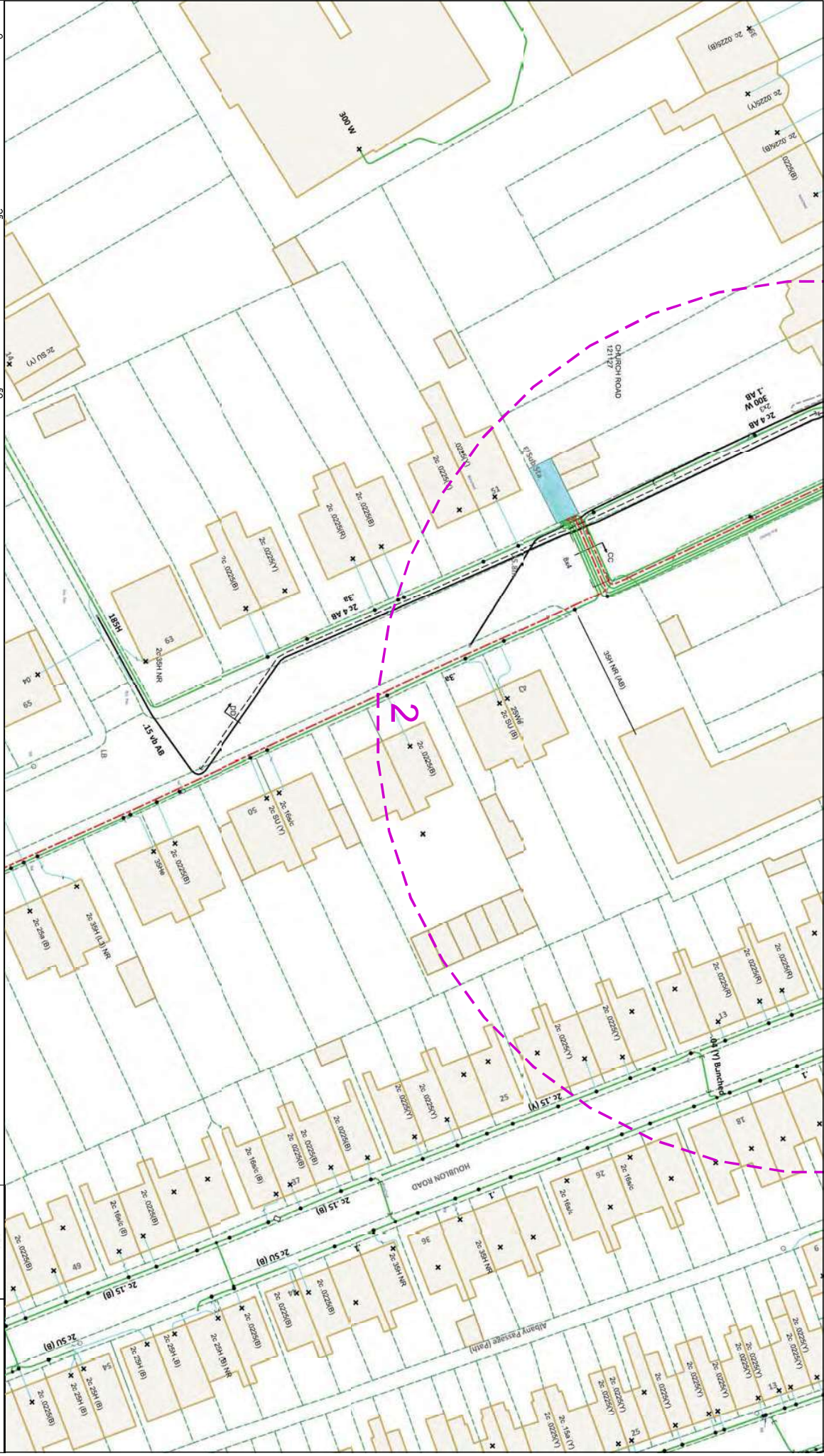
- Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your 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, or otherwise for any loss, damage, cost, claim, demand, 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 business, or otherwise.
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 4. 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.

UK Power Networks

IF IN DOUBT - ASK! Please refer to the UK Power Networks website for more information. If you have any queries, please contact our Customer Service Centre on 0800 783 8838 (24hrs URGENTLY).

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

Map produced at 1:2500 scale and Geographical Names shown. If main cables, not overhead lines, it is your responsibility to refer to the 1:500 records to determine the location of all known underground plant and equipment.



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0 25 50 metres

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.

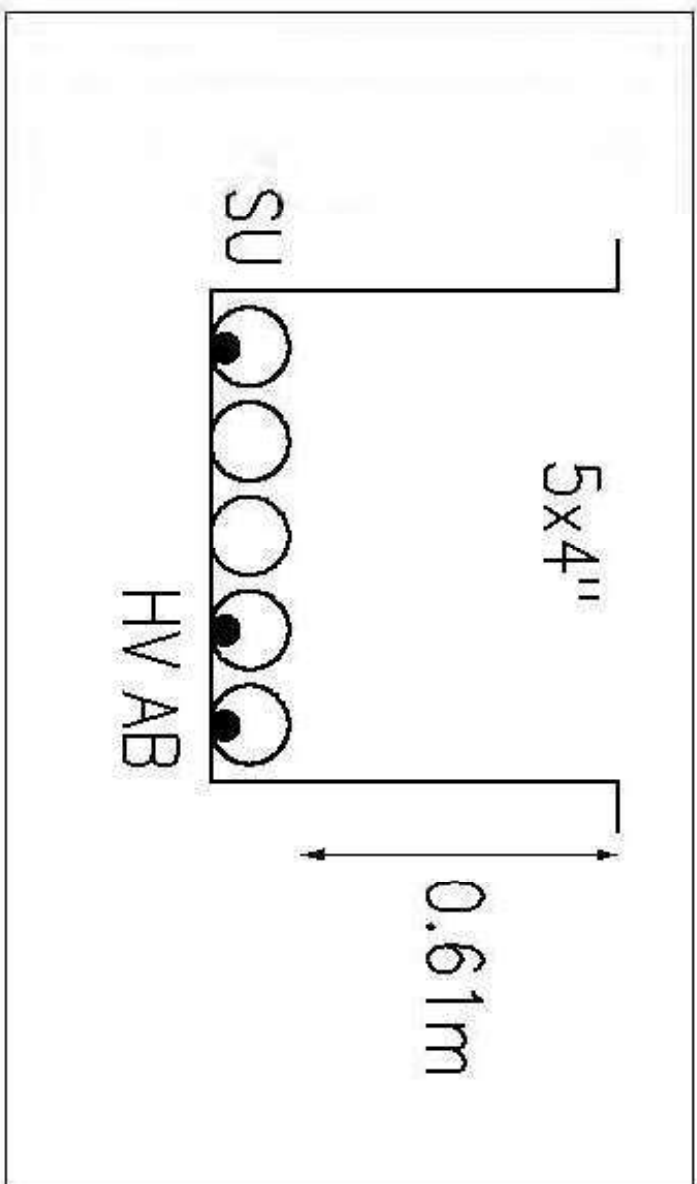


IF IN DOUBT - ASK!
 If you are unsure about the location of any cables, call the UK Power Networks Helpline on 0800 783 8333.
ALWAYS LOOK UP
 YOU START WORK
 Refer to HSE
 Guidance note G56
 ZHNS URGENTLY



Plans produced at 1:2500 scale are Conditional Exemption Plans (CEPs). If you are unsure about the location of any cables, call the UK Power Networks Helpline on 0800 783 8333. Refer to HSE Guidance note G56 ZHNS URGENTLY

Cross Section : X



Cross Section
X

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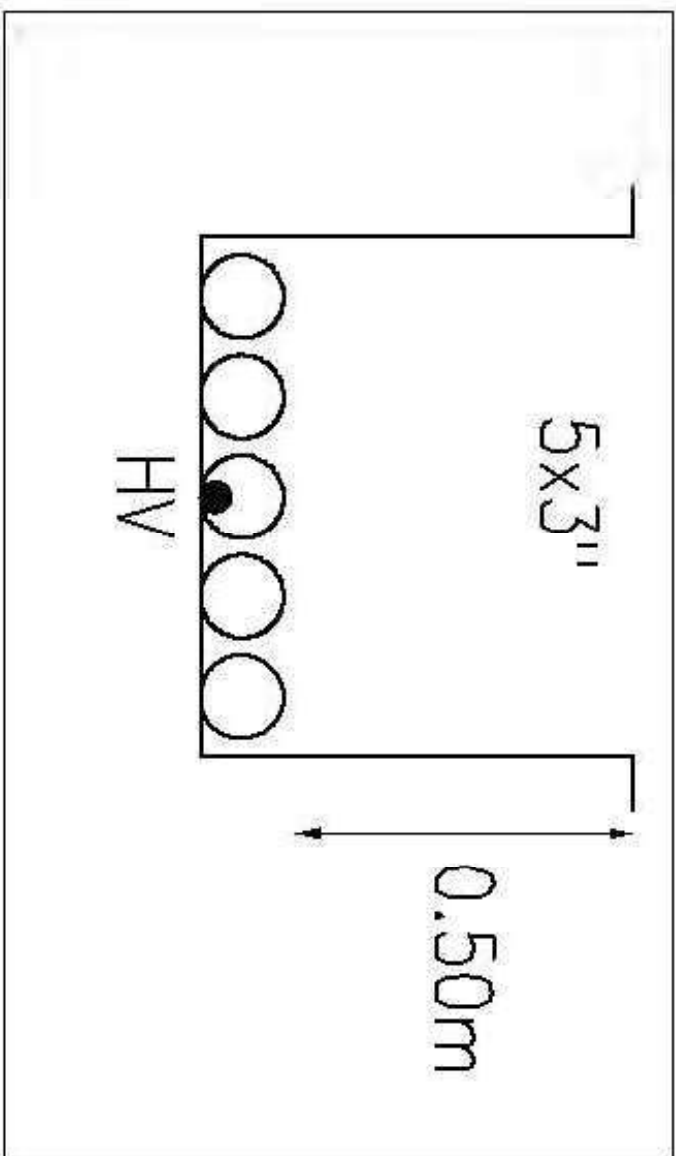
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IF IN DOUBT - ASK PHONE
0800 056 8466
EMERGENCY - If you damage
a cable or live
equipment
PHONE 0800 793 8828 (24hrs)
URGENTLY



Maps produced at 1:2500 scale are geo-schematics which show LV main cables and overhead lines (in some cases all voltages) prior to carrying out excavation. You must refer to the HSE guidance notes to determine the location of all known underground plant and equipment.

Cross Section : W



Cross Section
W

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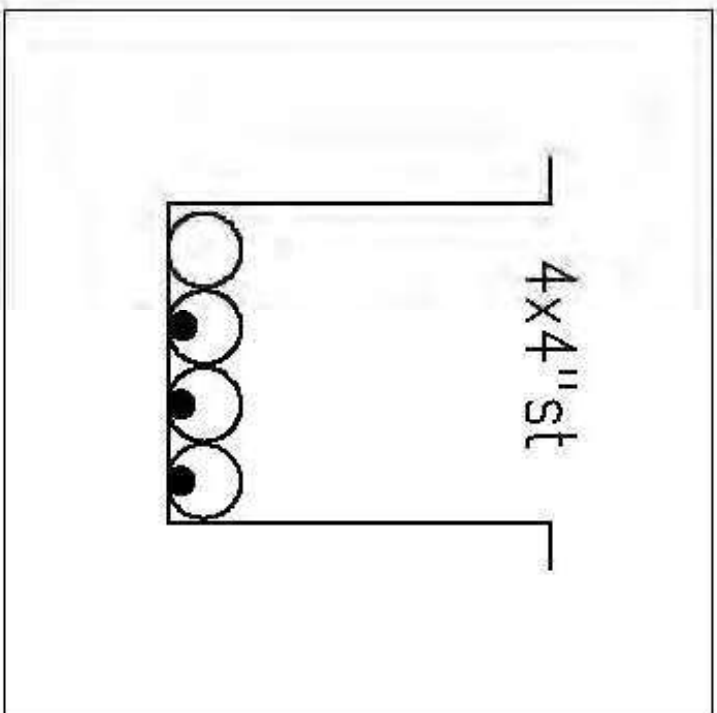
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EMERGENCY - If you damage
a cable or line
PHONE 0800 793 8828 (24hrs)
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Cross Section : AA



Cross Section AA

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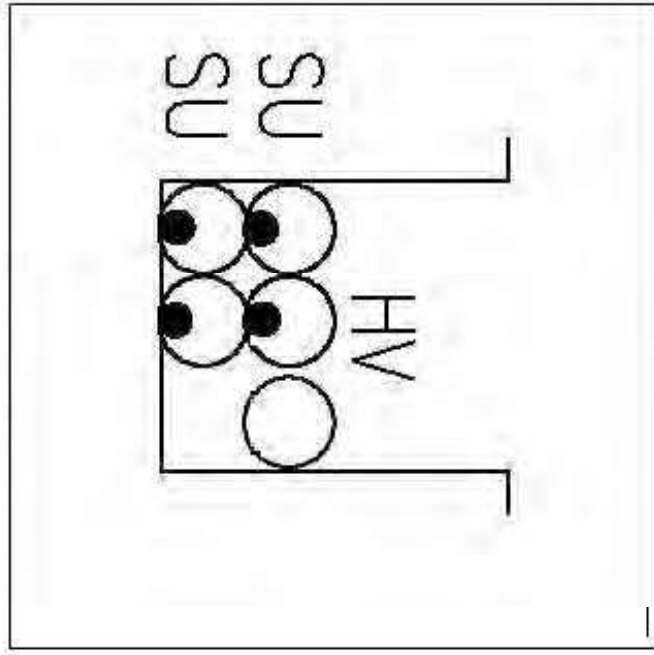
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IF IN CONTACT - ASU PHONE
0800 056 8466
EMERGENCY - If you damage
a cable or line
0800 783 8838 (24hrs)
URGENTLY



UK Power Networks
ALWAYS LOOK UP BEFORE YOU START WORK
Refer to HSE guidance note G56

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Cross Section Z

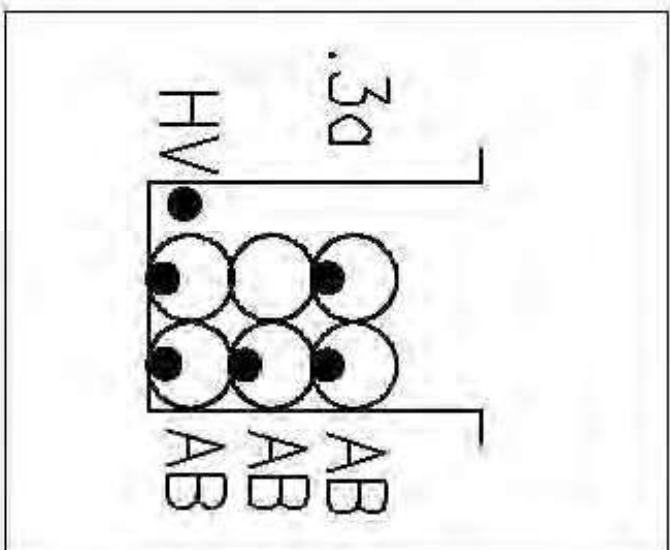
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IF IN DOUBT - ASK PHONE
0800 056 8466
EMERGENCY - If you damage
a cable or live
UNIDENTIALLY



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Cross Section BB

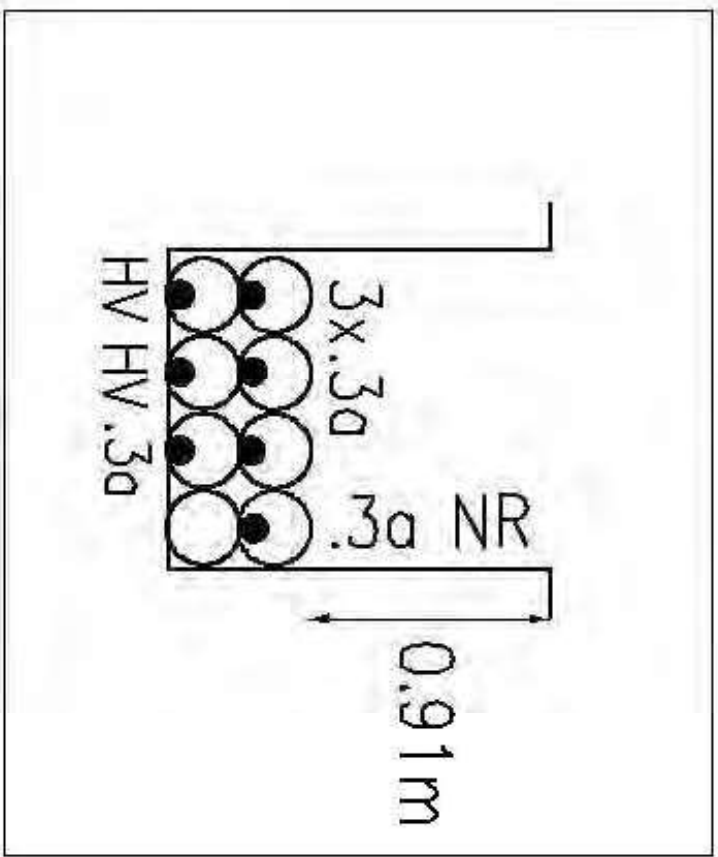
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EQUIPMENT
URGENTLY



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Cross Section CC

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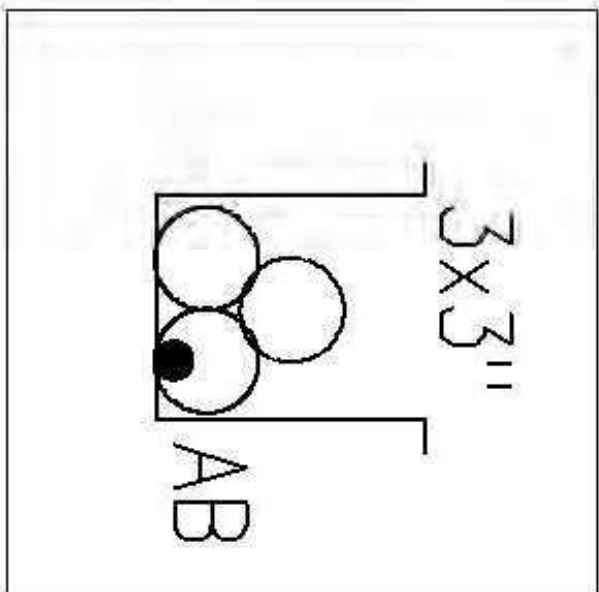
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0800 783 8838 (24hrs)
URGENTLY



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Cross Section
DD

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 EASERECTIC[®] - If you damage
 a cable or line
 0800 793 8828 (24hrs)
 UNIDENTITY



UK Power Networks

ALWAYS LOOK UP BEFORE YOU START WORK
 Refer to HSE Guidance note G56

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Network Records NetMAP Symbols Booklet - South East England

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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14	Poles.
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30	Notes.
	Secondary distribution cables.
	Primary and secondary sites.

(i)

(ii)

Guidance notes.

Important notice:

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

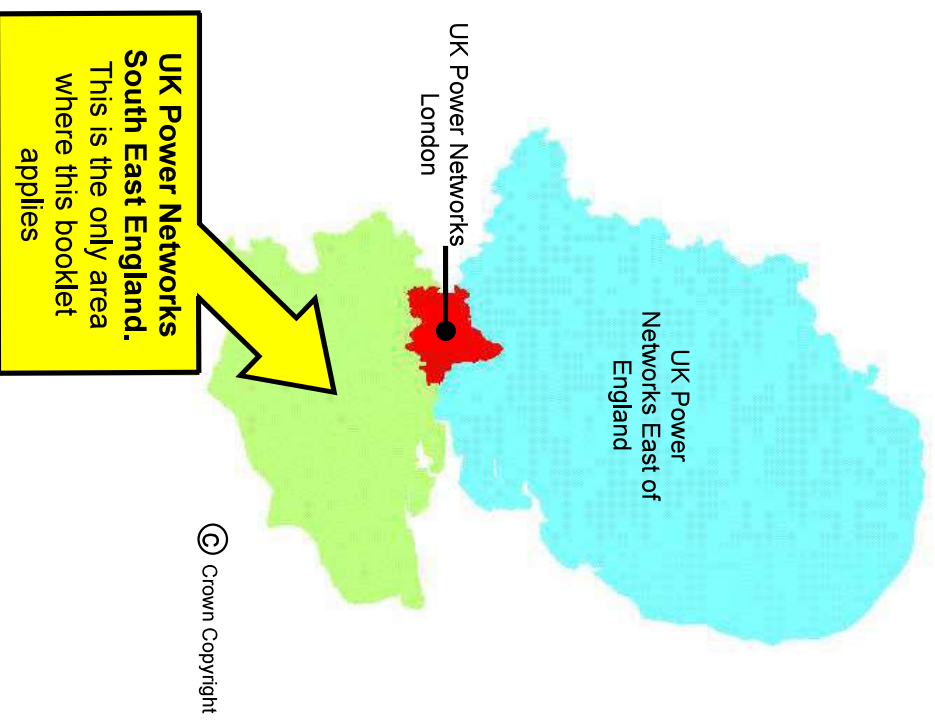
Tel: 08000 565866.

- 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.
- Third party cables are not usually shown.
- When viewed in black and white, the line-style indicates the voltage.
- All LV cables are 4 core and all HV cables are 3 core – unless otherwise stated.
- All cables are copper – unless otherwise stated.

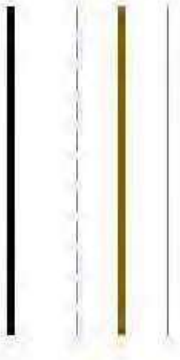


**Plan Provision Team
and CableWatch
Fore Hamlet
Ipswich
Suffolk IP3 8AA
Tel: 08000 565866**

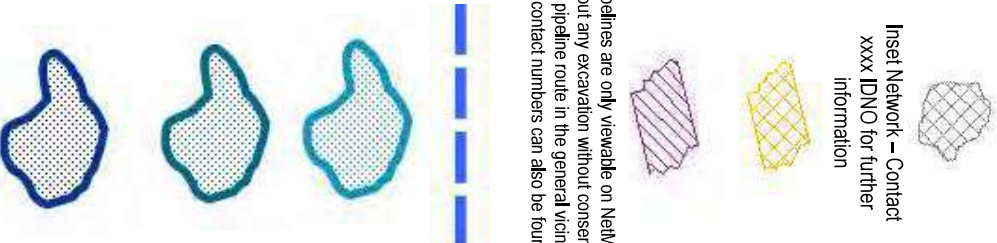
The area covered by this guide:



1:500 (& 1:1250) view








Scenery	
NetMAP system	Description
	<p>Secondary buildings and fence lines Building line Kerb line UK Power Networks / SPN licence boundary (not visible unless selected)</p>

Scenery for UK Power Networks use only - boxed in red

NetMAP system	Description
	<p>Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors)</p> <p>Proposed Cross Rail route (only visible to UK Power Networks and their immediate contractors)</p> <p>High pressure pipelines in the general vicinity (only visible to UK Power Networks and their immediate contractors)</p> <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 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.</p> <p>Water - surface water (only visible to UK Power Networks and their immediate contractors)</p> <p>Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors)</p> <p>Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors)</p> <p>Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors)</p>









section continued on next page

Scenery for UK Power Networks use only - boxed in red




NetMAP system	Description
	<p>Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Historical - Areas of Archaeological Potential (AAP) (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Nature - Special Protected Area (SPA) (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)</p>

section continued on next page














Scenery for UK Power Networks use only - boxed in red

NetMAP system	Description
	<p>Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Nature - National Park (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors)</p>
	<p>Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors)</p>

Primary distribution line route (1:500 view)

NetMAP system	Description
	275–400kV National Grid route
	132kV cable route
	33kV cable route
Approximate routes only – see separate record	

Secondary distribution cables (1:500 view)

NetMAP system	Description
	11kV underground cable
	11kV overhead line
	6.6kV underground cable
	6.6kV overhead line
	<6.6kV underground cable
	<6.6kV overhead line
	LV underground cable
	LV overhead line
	Pilot cable
	LV street lighting (pl)
	Service overhead line
	Service underground
	Logical service connection

Secondary distribution cable terminology (1:500 view)

HV underground	
sta (no text) XLPE bos scs ua c/c Poly BOTES of 33 kV design ax cx	PILCSTA (paper insulated lead covered steel tape armour) PILCSWA (paper insulated lead covered steel wire armour) XLPE (cross linked polyethylene) insulation CAS (corrugated aluminium sheath) batten construction CAS (corrugated aluminium sheath) with screened cores PILC (paper insulated lead covered) unarmoured Concentric cores Poly (polyethylene) insulation BOTES – Board of Trade earth screen Oil filled Constructed to 33 kV specification Triplex with aluminium conductor Triplex with copper conductor
HV overhead	
(no text) pvc cat +aw ccc	Bare open wire Open wire PVC covered ABC (aerial bundled or bunched conductor) with supporting strain wire Open wire with extra earth conductor Compact covered conductor
Overhead line materials	
scd cc st sil ccs cpl	Steel cored aluminium Cadmium copper Steel Stimalec Copper covered steel Compactal
section continued on next page	

Secondary distribution cable terminology continued (1:500 view)

LV underground mains and services	
w We H He ua (no text) XLPE DISTRI c/c s/c CONSAC vb Capothene tby swa soc Solidal LSF Trough	Waverform Waverform with separate earth wire Hybrid – copper neutral with aluminium phase conductor Hybrid with separate earth wire PILC (paper insulated lead covered) unarmoured PILC (paper insulated lead covered) with/without armour XLPE (cross linked polyethylene) insulation PISTA (paper insulated steel tape armour) 4c SAC (solid aluminium core) with lead covered neutral Concentric cores Split concentric with separated neutral and earth wires Paper insulated aluminium sheathed 3 core with solid aluminium cores Vulcanised bitumen/rubber insulation Capothene core insulation Tape braid and yarn PILSWA (paper insulated lead steel wire armour) PILSTA (paper insulated steel tape armour) solid aluminium core 4 sector SAC with solid aluminium cores Low smoke and fume (orange cable) Cable laid in filled trough
LV overhead mains and services	
(no text) ABC cat pvc c/c H ue vir	Bare open wire Aerial bundled (or bunched) conductor ABC (aerial bundled or bunched conductor) with supporting strain wire PVC covered open wire Concentric cores Hybrid – copper neutral with aluminium phase conductor Under eaves – hession covered lead cable Vulcanised India rubber insulation
section continued on next page	

Secondary distribution cable terminology continued (1:500 view)

Various annotation	
.1	Cable size (sq. inches)
185	Cable size (sq. millimetres)
a	Aluminium
ITC	Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar












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Cable ducts (1:500 view)

NetMAP system	Description
	<p>Duct 2 way</p> <p>Duct 1 way (no text)</p> <p>Spare duct</p> <p>Cross section arrow</p> <p>Cross section showing: duct, tile depth, tile, single LV cable and HV Triplex cable</p>
Duct materials	
<p>(no text)</p> <p>pvc</p> <p>st</p> <p>asb</p> <p>fibr</p> <p>wi</p> <p>cp</p> <p>t/e</p>	<p>Earthenware</p> <p>Pvc</p> <p>Steel</p> <p>Asbestos</p> <p>Fibre</p> <p>Iron</p> <p>Concrete pipe</p> <p>Trenchless excavation</p>

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Poles (1:500 view)	
NetMAP system	Description
 (S) 9999999	Section pole Pole number (unique)
	Single leg
	H pole
	3 member
	4 member
	Strut
	Pole support (stay)
	Flying stay
	Tower 33kV to 400kV

EHV, HV and LV sites (1:500 view)	
NetMAP system	Description
 Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)	Ground mounted primary substation showing name, transformer voltage and SPENS number
	Pole mounted substation showing name and SPENS number
	Ground mounted substation showing name and SPENS number
	2 way link box
	4 way link box
	Link box without busbar (options similar to 1:2500 view) LV distribution pillar
	Voltage regulator
	Voltage balancer
	Open point
	Open point – out of phase
	Overhead open point
Note: For LV linking, use the 1:2500 view	

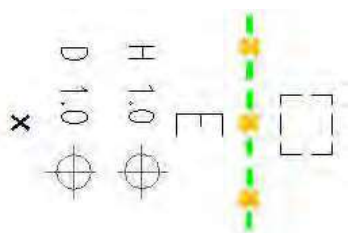


Joints (1:500 view)

NetMAP system	Description
	<p>Straight (same for HV) Pot end (same for HV) Branch (same for HV) Sleeve repair Capped end Service to LV main Under eaves service</p>
<p>Jointing phase drawing</p>	

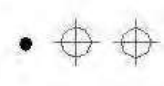
Street furniture (1:500 view)

NetMAP system	Description
	<p>Pole mounted street light Street light Zebra crossing Road sign Ballard Pelican crossing Traffic controller Advertising sign Amplifier station Control cubicle <u>Text displayed/description</u> Pay and display Bus shelter TBS Kiosk Water meter PL pillar TCB Unknown</p>

Miscellaneous (1:500 view)

NetMAP system	Description
	<p>Underground chamber or draw pit</p> <p>Earth conductor</p> <p>Earth pin</p> <p>Height marker</p> <p>Depth marker</p> <p>Supply point</p> <p>Missing data in or near this location</p>
 <p>Contaminated Land refer to SHE 01 016</p> 	<p>Contaminated land reference</p>

Connectivity (1:500 view)

NetMAP system	Description
	<p>Edge node</p> <p>Node</p> <p>Connector</p> <p>Pole termination (nothing visible unless selected)</p> <p>Edge nodes, nodes, connectors and pole termination joints may not appear on screen unless turned on and selected.</p>

Abbreviations (1:500 view)

NetMAP system	Description
NR SU AB (M) VO5 MS MP pmt pl TBS TCB CET IT DAT +sl +sw 2c PESL Added Excluded IIP VSxxxx CB	No record Size unknown Abandoned PME available Year LV linking verified Milestone Marker post Pole mounted transformer Public lighting Temporary builder's supply Telephone call box Cable electronically traced Instrument traced (same as CET) Cable avoidance tool (same as CET) Street lighting Switch wire 2 core Public Electricity Supply License Supplied by SPN Not supplied by SPN Assumed open point Vacant site Callender box

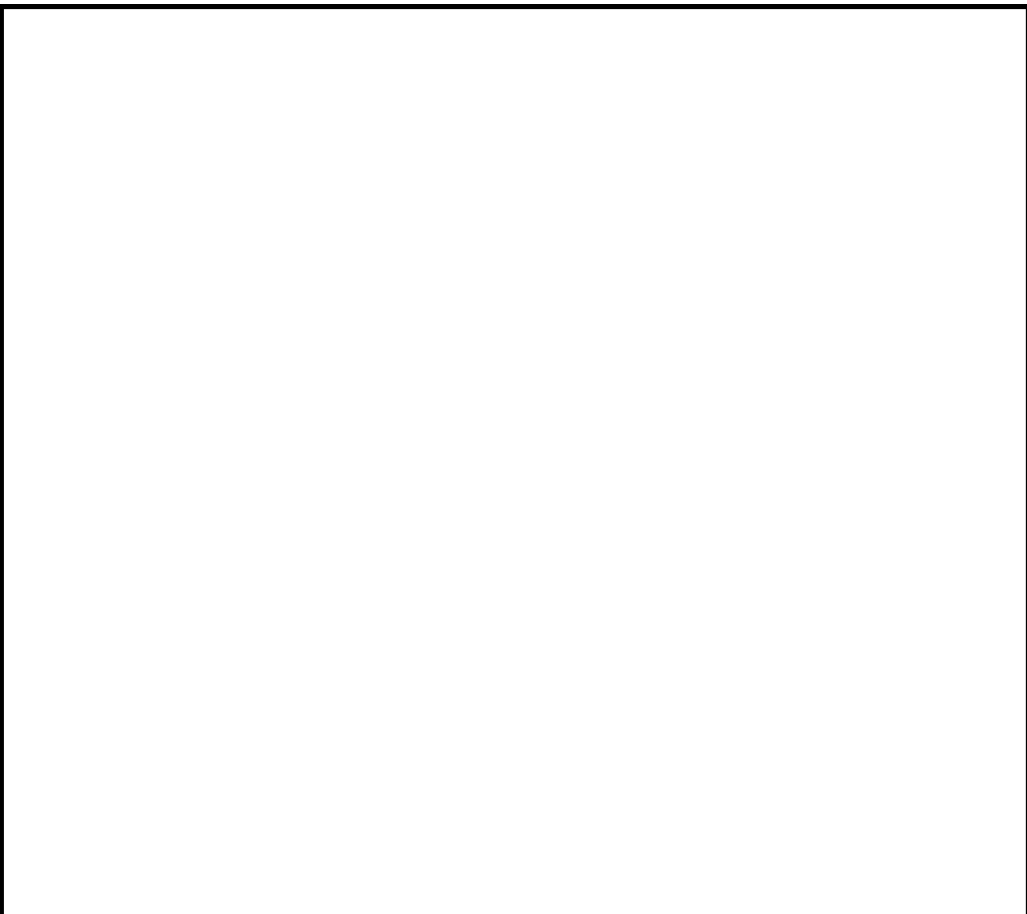
Cable phasing (1:500 view)

Old core colours	Shown on map	New core colours
Neutral	Neutral	Blue
Red	R	Brown
Yellow	Y	Black
Blue	B	Grey
		Neutral L1
		L2
		L3

Note:- Scott is a different phasing system

Operational status colours (1:500 view)

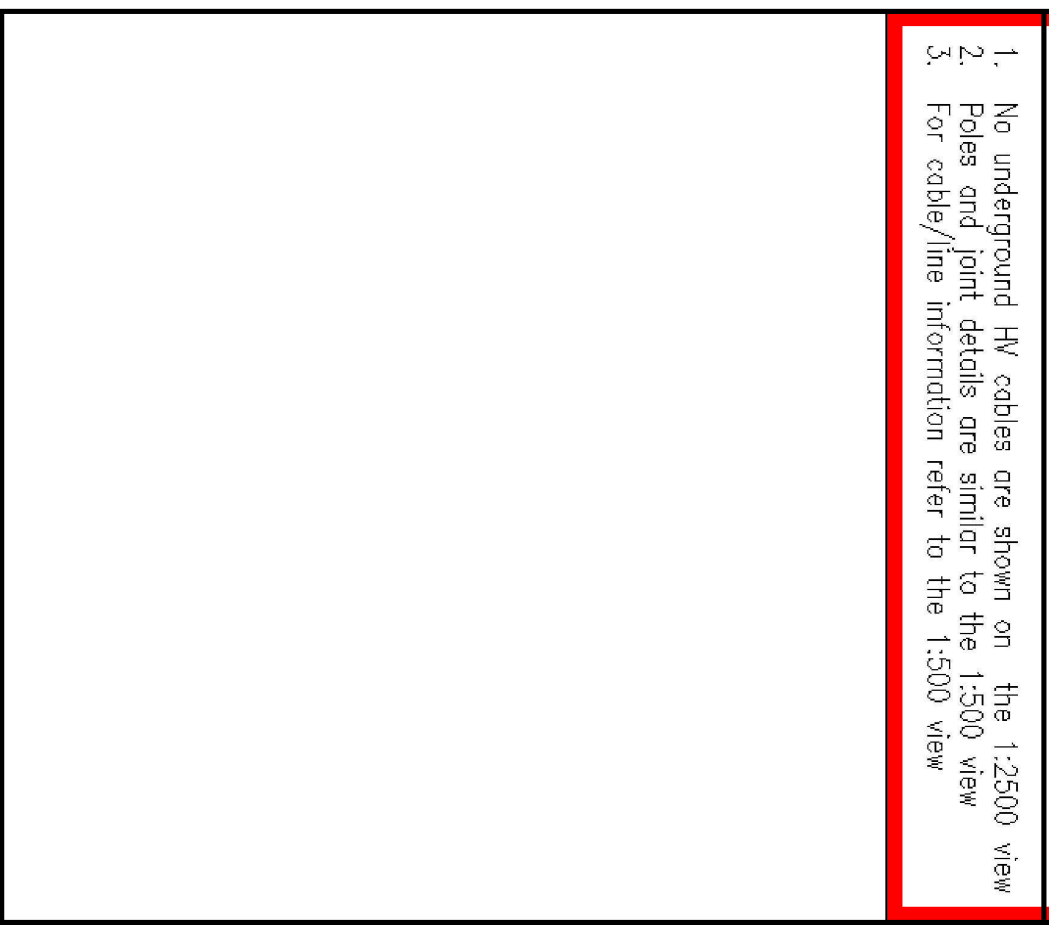
PROPOSAL _____ Symbols and cables appear in ORANGE
OUT OF SERVICE _____ Cable and joints appear in BLACK
ABANDONED _____ Cables and joints appear in GREY



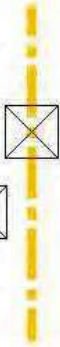

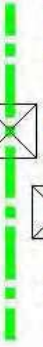
**1:2500 view - for UK Power
Networks use only - boxed red**

Notes






1. No underground HV cables are shown on the 1:2500 view
2. Poles and joint details are similar to the 1:500 view
3. For cable/line information refer to the 1:500 view



Primary distribution line route (1:2500 view)

NetMAP system	Description
	275–400kV National Grid route
	132kV cable route
	33kV cable route

Secondary distribution cables (1:2500 view)

NetMAP system	Description
	11kV overhead line
	6.6kV overhead line
	<6.6kV overhead line
	LV underground cable
	LV overhead line

Primary and secondary sites (1:2500 view)

NetMAP system	Description
<p>Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)</p>	
	Ground mounted substation showing capacity, phase, name and SPENS number
	Pole mounted substation showing capacity, phase, name and SPENS number
	Primary substation showing name and SPENS number (no site shown)
	2 way link box
	4 way link box
	Link box identifier
	4 way link box without busbar
	5 way link box without busbar
	8 way link box without busbar


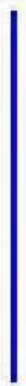




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Primary and secondary sites continued (1:2500 view)

NetMAP system	Description
	LV distribution pillar
	Voltage regulator
	Voltage balancer
	Open point
	Open point – out of phase
	Earth pin

Switch types (1:2500 view)	
NetMAP system	Description
ABSD A/R A/S FUSE S/D PF ASL PMR PMS GVR	Air brake switch disconnecter Auto recloser Sectionalizer Fuse Surge diverter Pathfinder Automatic sectionalising links Pole mounted recloser Pole mounted sectionaliser Gas vacuum recloser

1:10000 view - for UK Power Networks use only - boxed red	
Notes	
<ol style="list-style-type: none"> 1. No EHV cables/overhead lines shown on 1:10000 view. 2. For congested areas print at 1:50000. 3. HV site used instead of branch joint on 1:10000 for connectivity purposes. The site is not displayed until it is selected. 	

Secondary distribution cables (1:10000 view)	
NetMAP system	Description
	11kV underground cable
	6.6kV underground cable
	<6.6kV underground cable
	11kV overhead line
	6.6kV overhead line
	<6.6kV overhead line

Primary and secondary sites (1:10000 view)	
NetMAP system	Description
<p>Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)</p> <p> SITE NAME 0008590</p> <p> SITE NAME 521234</p> <p> SITE NAME 524514</p> <p> SITE NAME 523634</p> <p> SITE NAME pmt 527522</p> <p> SITE NAME pmt 525743</p> <p> SITE NAME pmt 526543</p> <p> SITE NAME 527238</p>	<p>Primary substation showing name and SPENS number</p> <p>11kV ground mounted substation showing name and SPENS number</p> <p>6.6kV ground mounted substation showing name and SPENS number</p> <p><6.6kV ground mounted substation showing name and SPENS number</p> <p>11kV pole mounted substation showing name and SPENS number</p> <p>6.6kV pole mounted substation showing name and SPENS number</p> <p><6.6kV pole mounted substation showing name and SPENS number</p> <p>Pole mounted switching substation showing name and SPENS number</p>