



Dig Sites Area: _ _ _ Line: - -

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

Date Requested: 07/10/2021 Job Reference: 23333463 Site Location: 553065 226666 Requested by: Mr Joe Shawyer

Your Scheme/Reference: 29311

Scale: 1:500 (When plotted at A4)

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- 8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.
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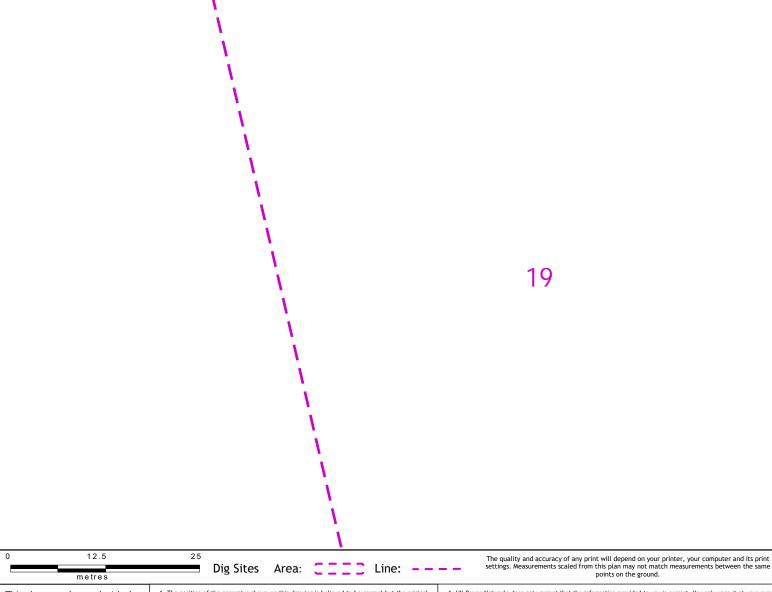


IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY



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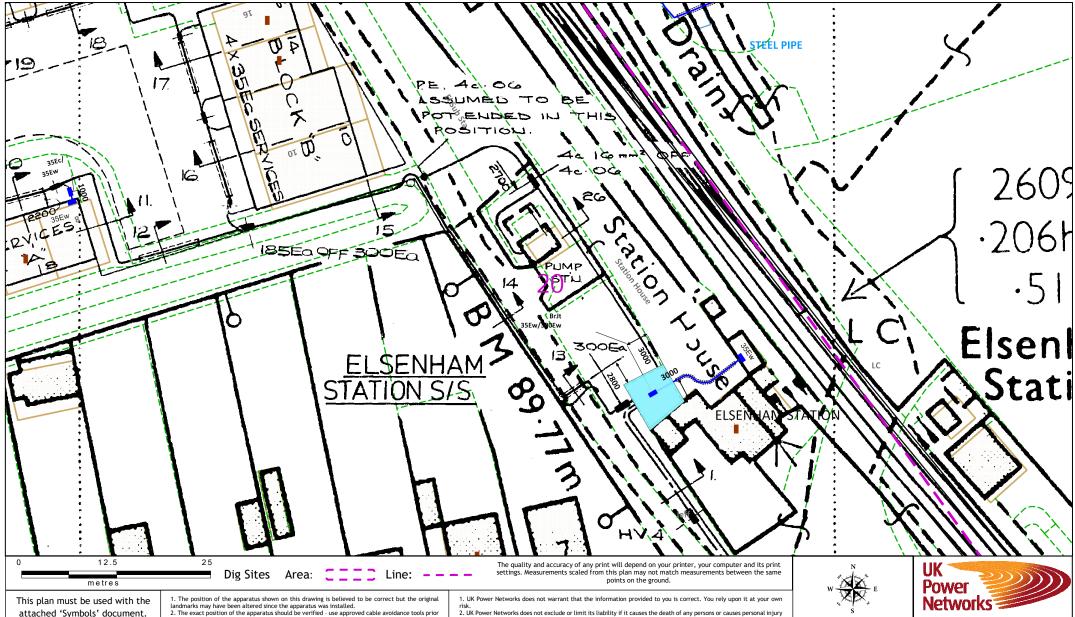
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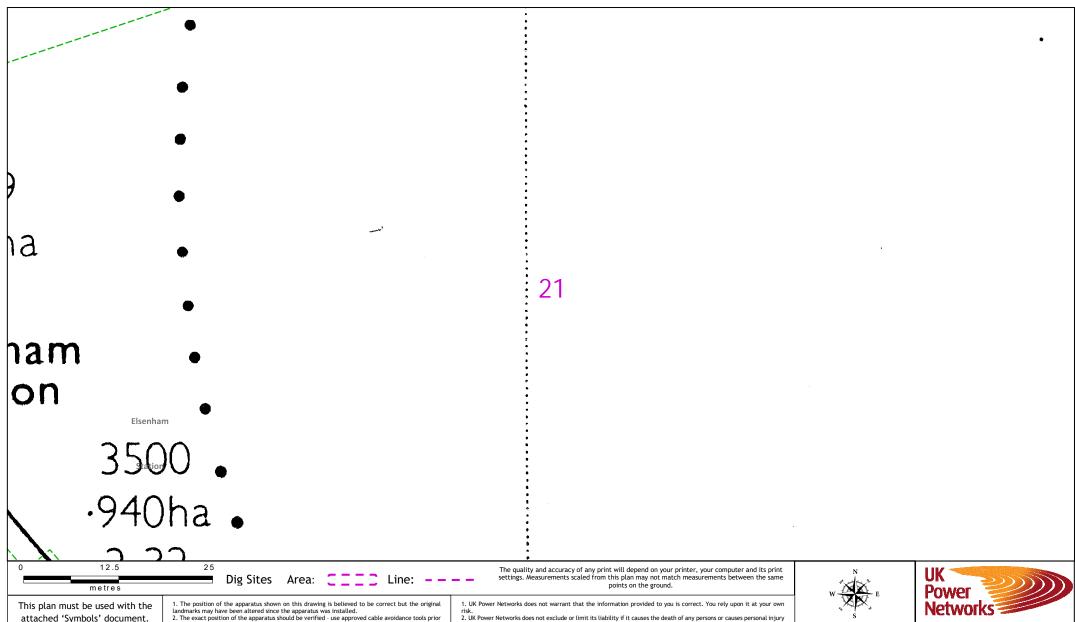
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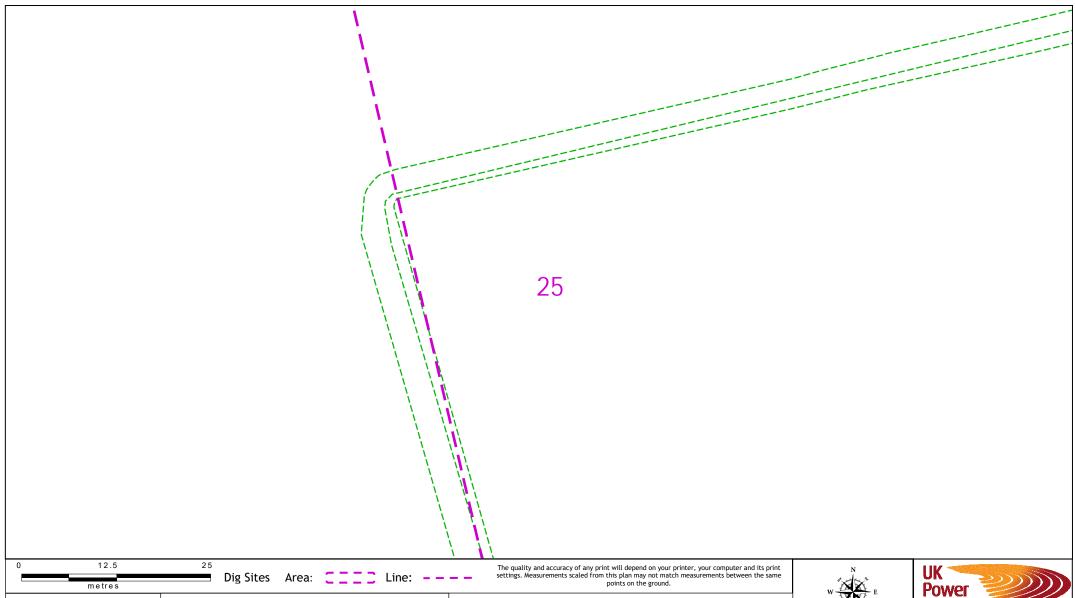


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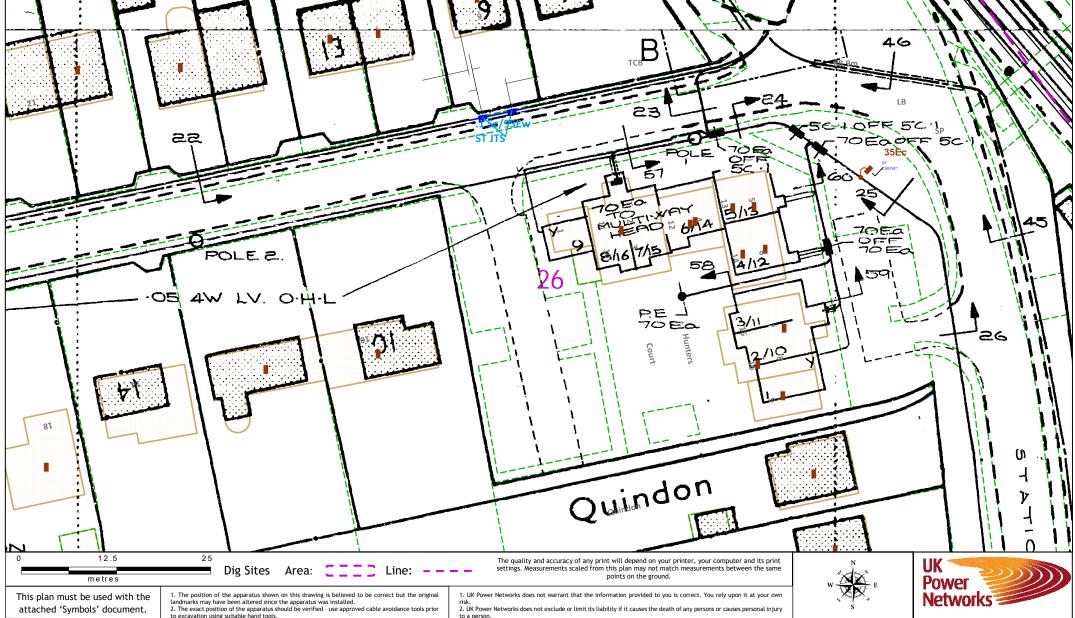


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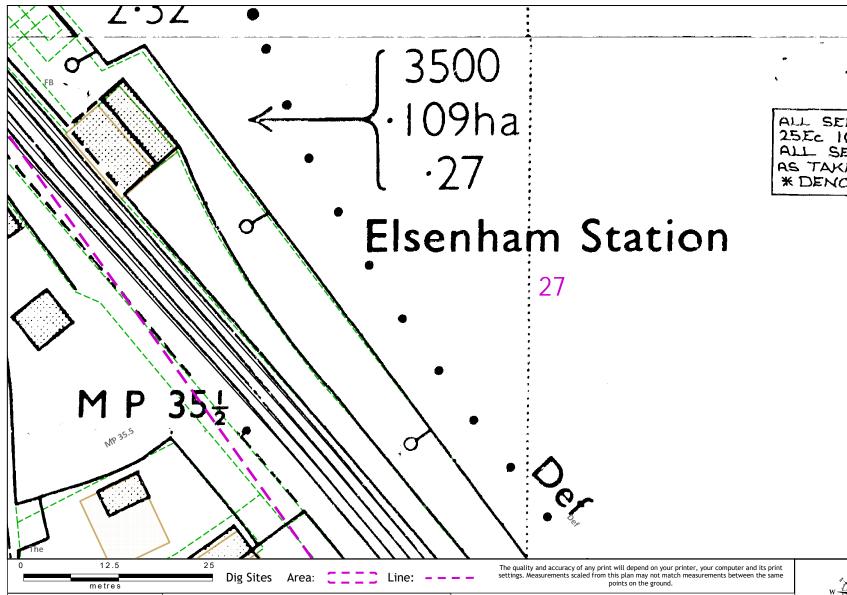
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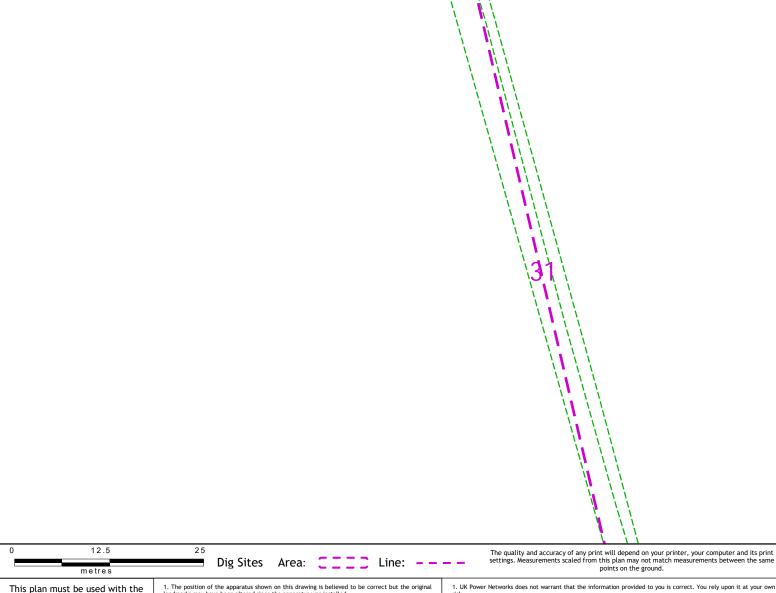


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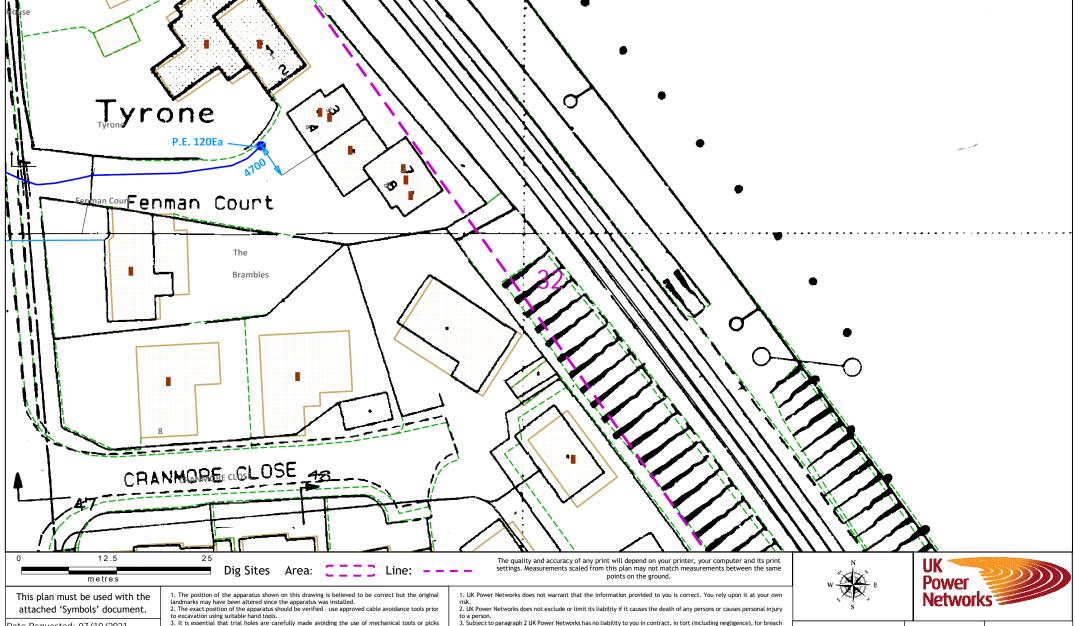
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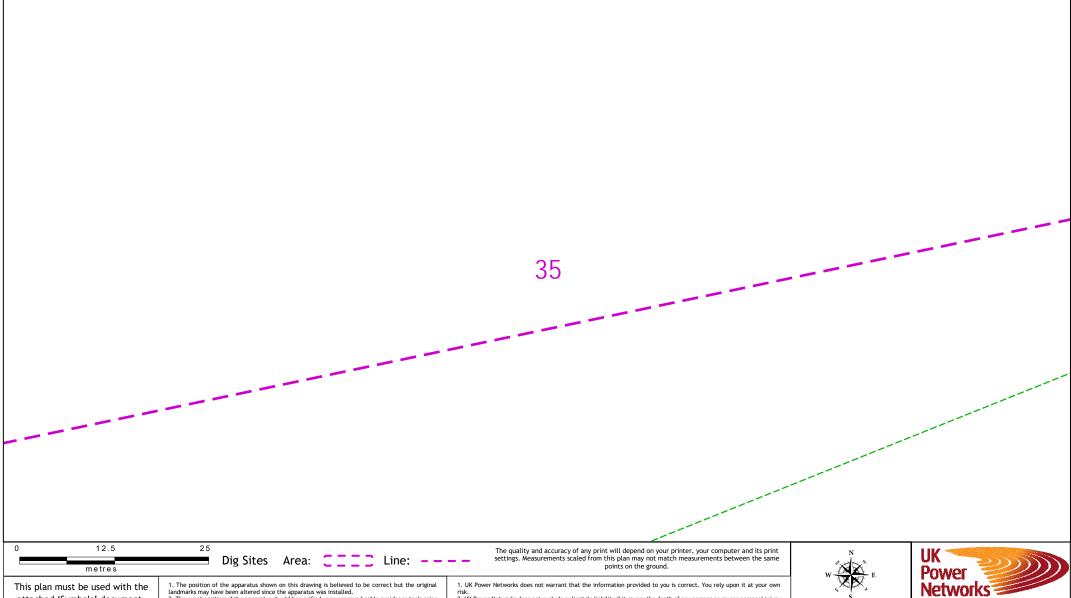
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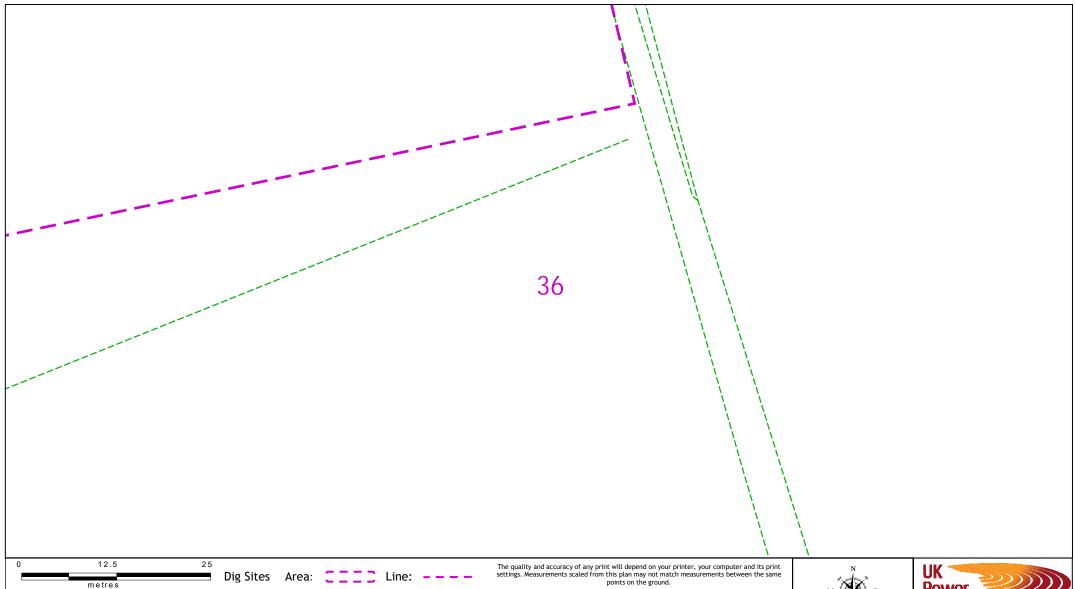
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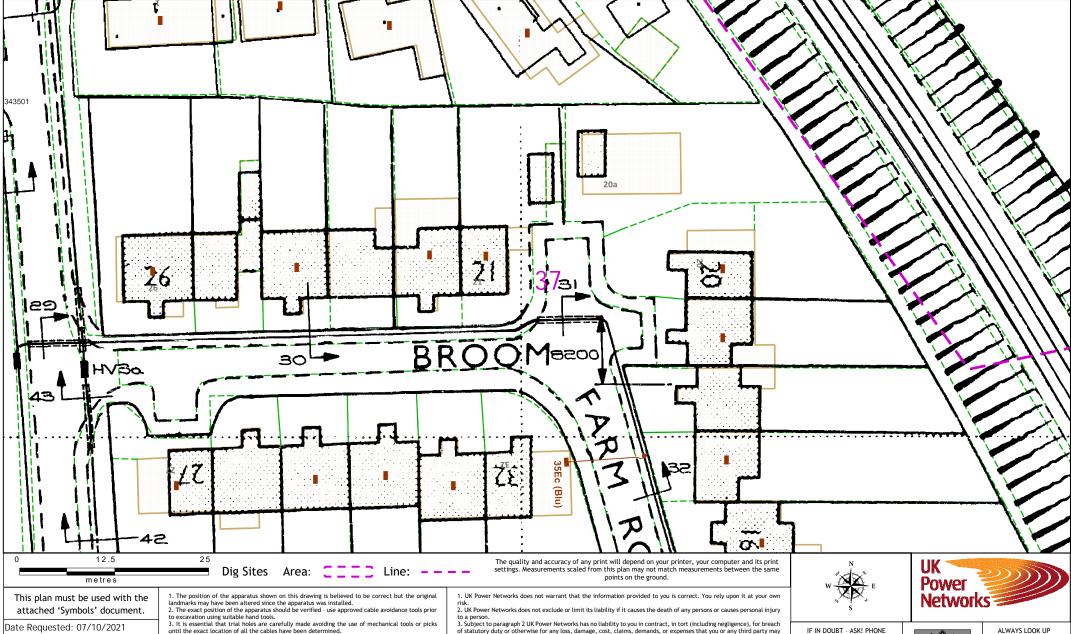
IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY





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.



Job Reference: 23333463 Site Location: 553065 226666 Requested by: Mr Joe Shawyer

Your Scheme/Reference: 29311

Scale: 1:500 (When plotted at A4)

- 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.
- 25 Sudjective dylargy or the Wise feet any loss, das not aboutly Cryain, claim, clearly carried that you or any third party may suffer or statutory dylargy or expenses that you or any third party may suffer or including a required to sing the information provided whether for physical damage to property or any expenses for including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third party may suffer or including a retain that you or any third you of use) or any special or consequential loss or damage whatsoever
- 4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.

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

Date Requested: 07/10/2021 Job Reference: 23333463 Site Location: 553065 226666 Requested by: Mr Joe Shawyer

Your Scheme/Reference: 29311

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,
- 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.
- 1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own
- 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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Dig Sites Area:

settings. Measurements scaled from this plan may not match measurements between the same points on the ground.

The quality and accuracy of any print will depend on your printer, your computer and its print

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

Date Requested: 07/10/2021 Job Reference: 23333463 Site Location: 553065 226666 Requested by: Mr Joe Shawyer

Your Scheme/Reference: 29311

| |Scale: 1:500 (When plotted at A4)

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 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.
- 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.
 These 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.
 Please be aware that elevations are the standard owner lipes a construction of the present and the standard owner lipes are not exceeding disclosured for the Extrement
- 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@ukpownetworks.co.uk.
- 1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own
- 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.Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach
- 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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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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Cross Section: 61

See Supplemental Diagram TL5326NWA for Cross-Section 61 details

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

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

 UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk

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2. OR Power Networks does not exclude or limit is liability in 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 a subject of the paragraphs of the paragraphs of the paragraphs. savings, loss of goodwill, loss of business, loss of use or any special or consequential loss or damage whatsoever.

Ioss or damage whatsoever.

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ALWAYS LOOK UP BEFORE Refer to HSE Guidance note GS6

Wans nonduced at 1:7500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refet to the 1:500 records to determine the location of all known underground plant and Cross Section: 61

See Supplemental Diagram TL5326NWA for Cross-Section 61 details

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 The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation

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You rely upon it at your own risk.

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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.

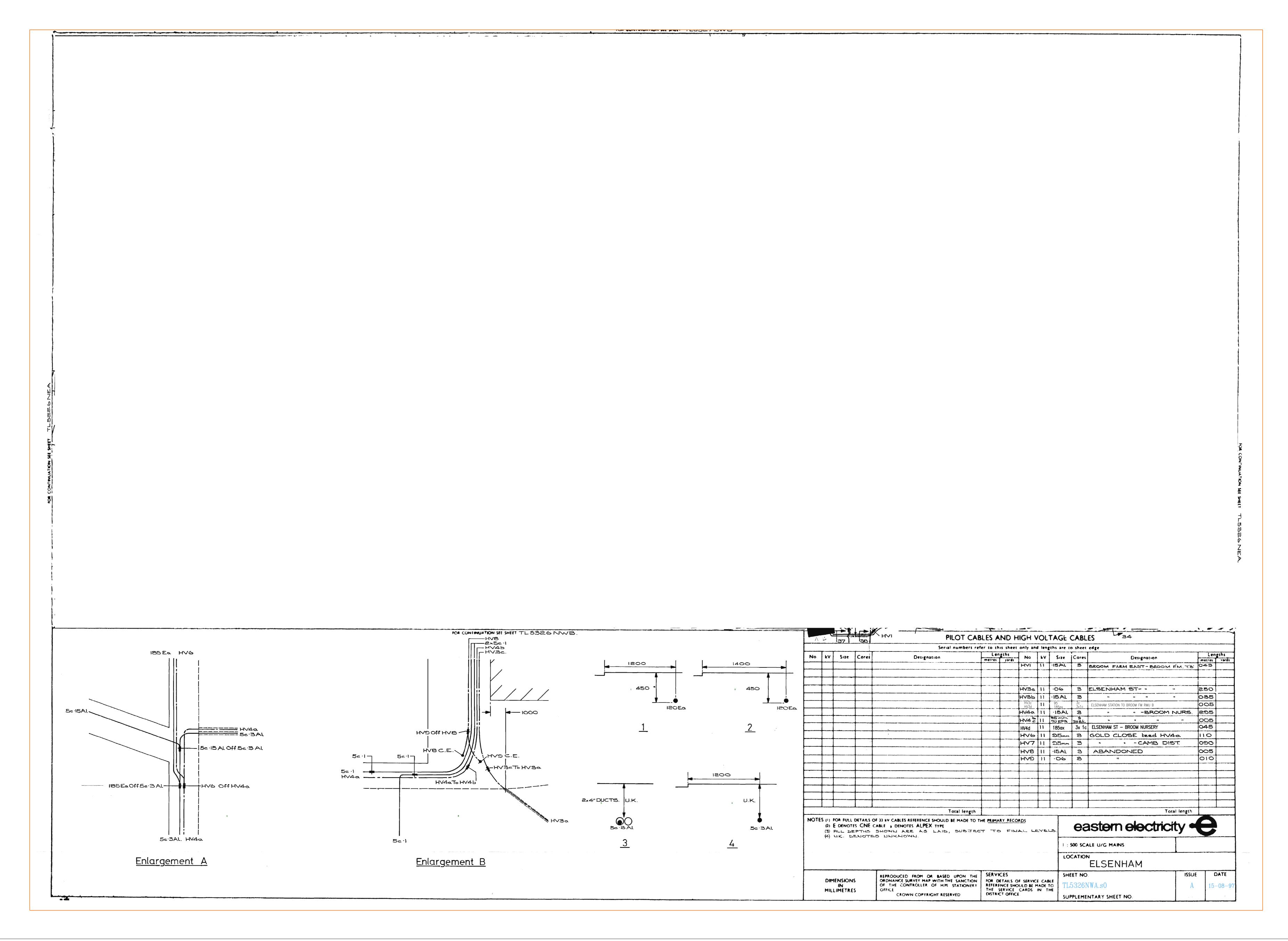
All you need to do is:

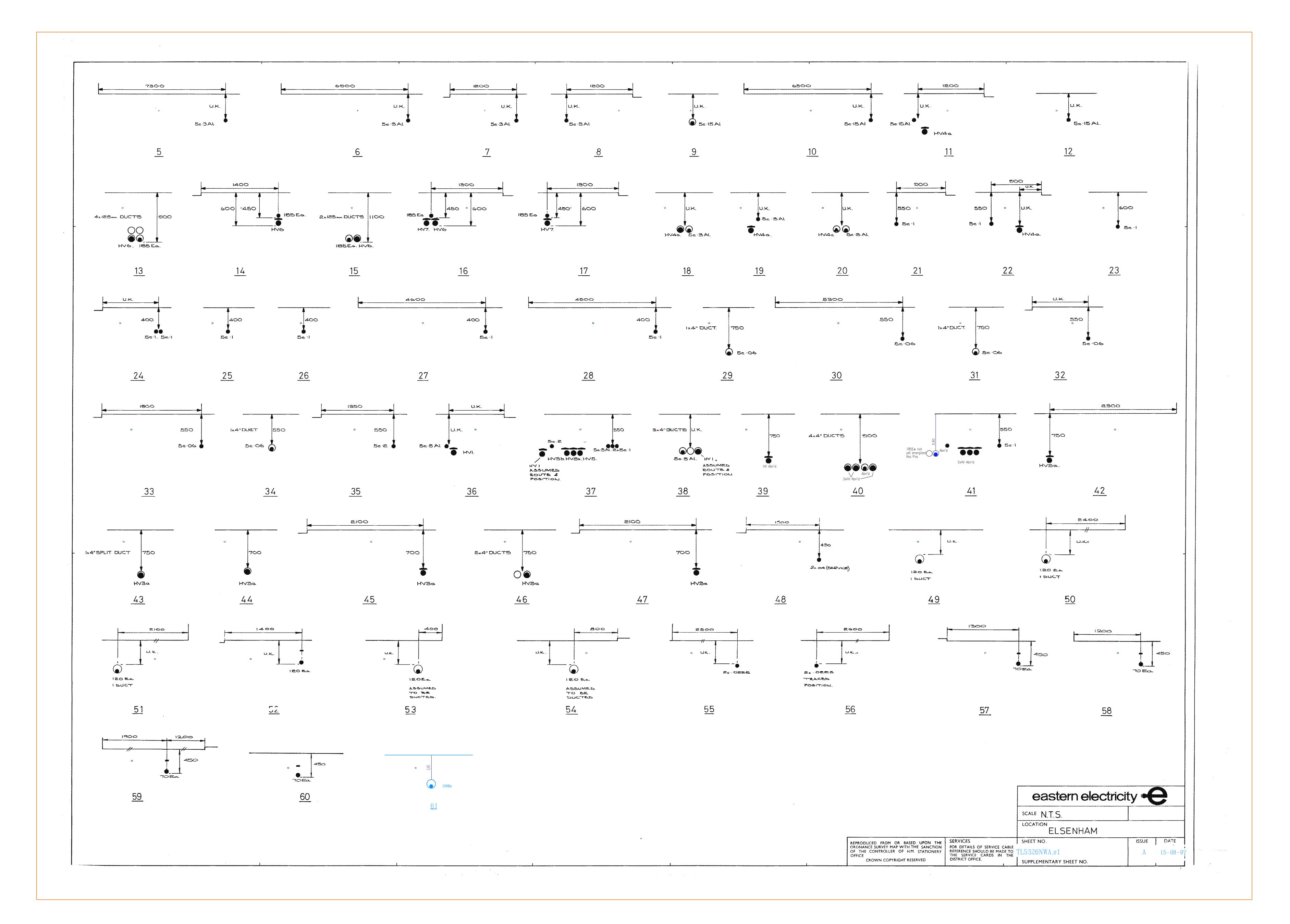
- 1. Use your phone camera to scan the QR code:
- 2. Provide feedback on what you have found on site (good or bad)
- 3. Upload a photo if needed

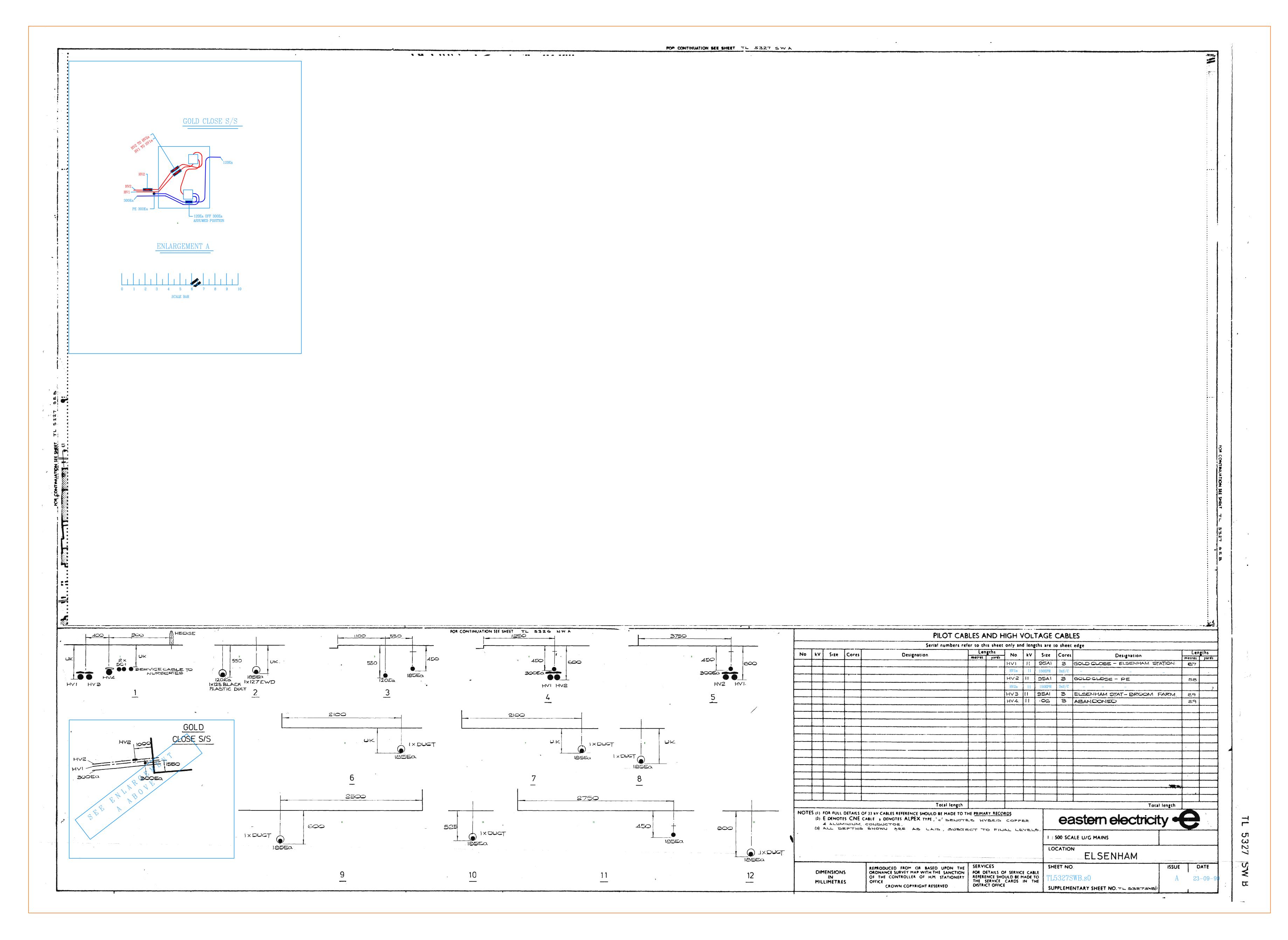


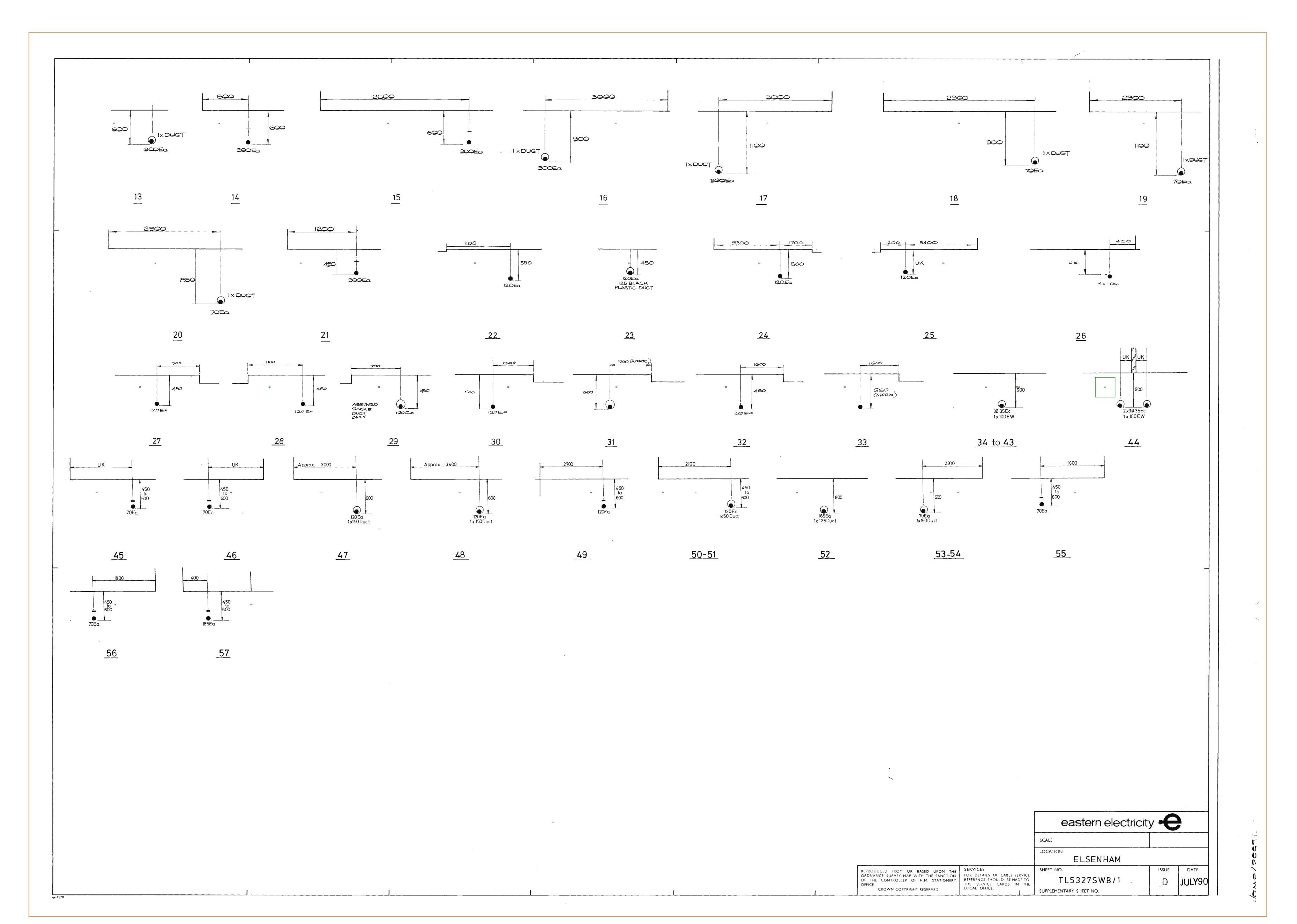
Thank you for making the area a safer place to dig.

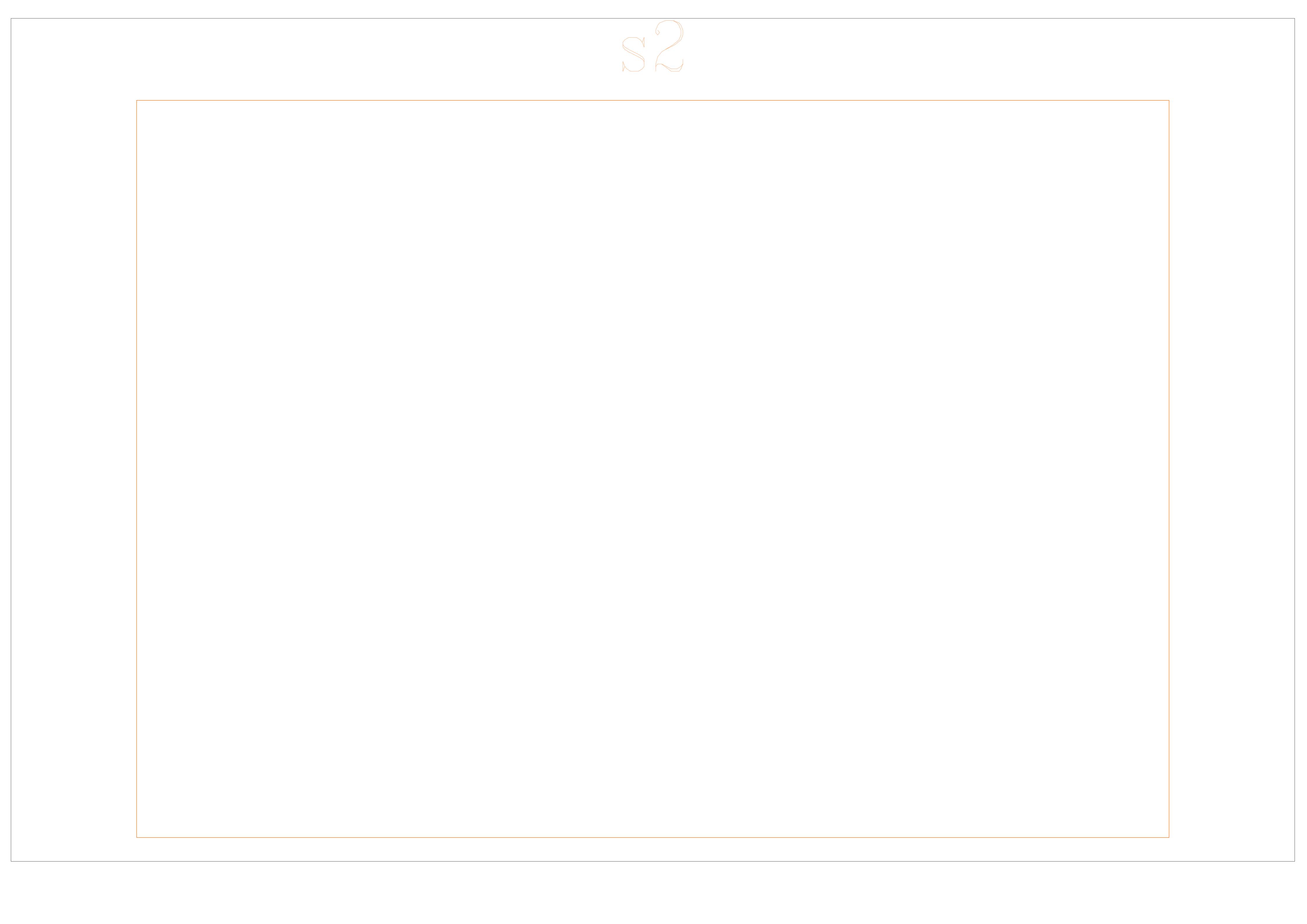
UK Power Networks, working with LSBUD













NetWork Records NetMAP Symbols Booklet East of England

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

Version 1.2

Released October 2010

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

Index:-

Page no:		Contents:
1 2		Guidance notes. The area covered by this guide.
_		The area covered by this galac.
3	<u>1:500 view</u>	
		Scenery.
4		Scenery (UK Power Networks use only).
7		Primary distribution cables (EHV).
8		Secondary distribution cables (HV/LV).
9		Service cables/terminations.
10		Cable ducts.
11		EHV/HV/LV sites.
13		Mains joints.
14		Service joints.
15		Cross sections.
17		Common abbreviations/terminology (all views).
19	1:2500 (LV) &	1:10000 (HV) network views (UK Power Networks use
	only).	
		General.
20		1:2500 scale LV network.
22		1:10000 scale HV network.
23	IV network di	agram view (UK Power Networks use only).
_0	<u> </u>	Overhead lines.
24		Underground cables.
25		Joints.
26		Substations/pole transformers.
20		Cascado. Is/polo transformore.

Guidance notes.

Important notice:

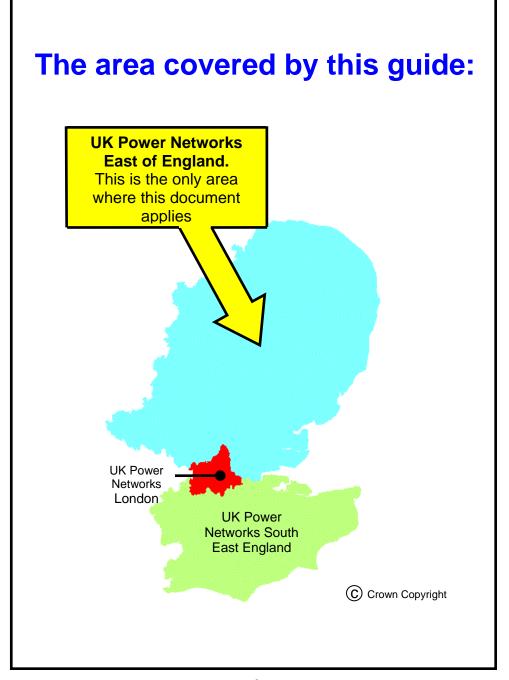
If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance

Tel: 08000 565866.

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



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



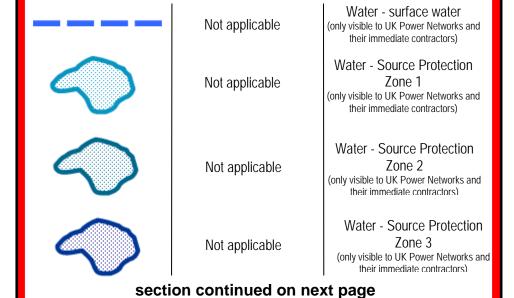
1:500 view - underground network

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

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

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

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



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 E 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 to UK Power Networks and their immediate contractors)	
	AM 200	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	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 (1:500 view)			
NetMAP system	Scanned image	Description	
		Over 33kV and up to 132kV	
	SARRY SHARRY ROSSON SARROW SARROW STREET, SARROW SARROW SARROW	Over 11kV and up to 33kV	

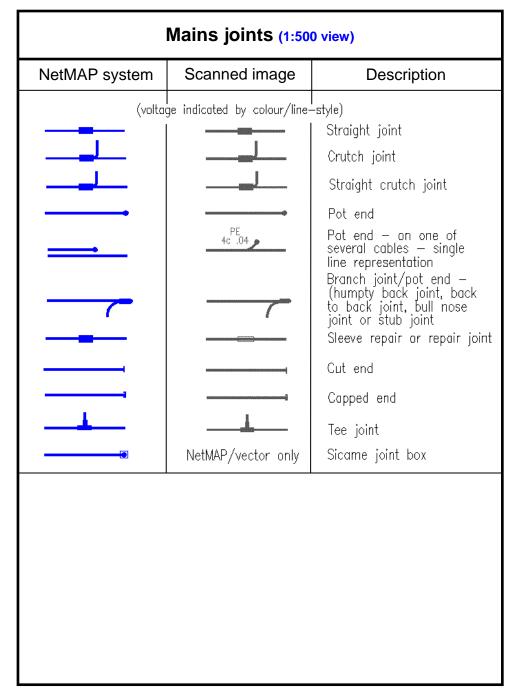
Secondary distribution cables (1:500 view)			
NetMAP system	Scanned image	Description	
		Over 230/400V and up to 11kV (HV) cable route	
		230/400V (LV) cable route	
	(Only shown this way if independent from HV cable route)	Pilot cable route	
Abandoned cables a	lindepèndent from HV cable route) Ire shown and labelled as	such when applicable	

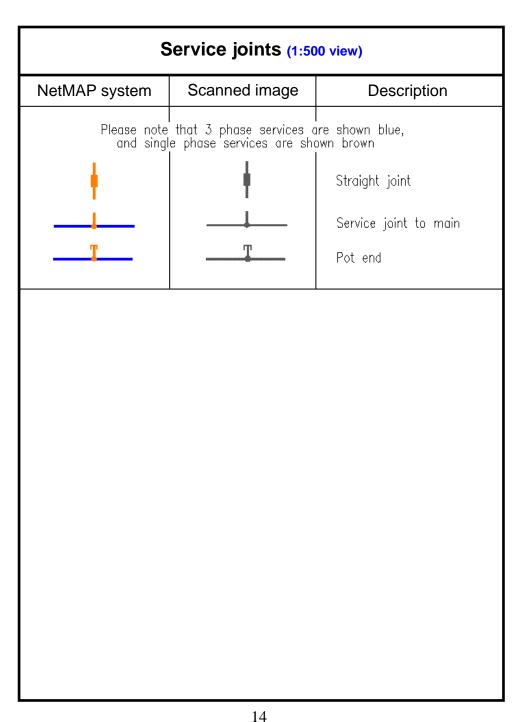
NetMAP system	Scanned image	Description
Street light	Service routes were not always shown on MMS — they were however shown dashed, as indicated above	3 phase service with termination 3 phase service with termination (unknown route) 3 phase service with multi—head termination Single phase service with termination Single phase service with termination Single phase service with termination (route unknown) Street lighting cable and termination
Street light	Street light	* termination

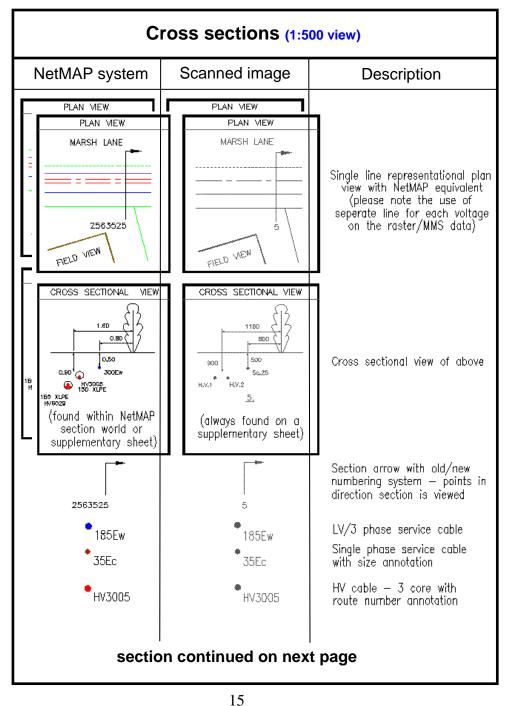
Cable ducts (1:500 view)			
NetMAP system	Scanned image	Description	
{		Empty duct Cable(s) in duct(s) Cable(s) in duct(s) (on some raster maps)	
	> []]]	Multiple cables in ducts Multiple cables in ducts (on some raster maps)	

EHV, HV and LV sites (1:500 view)		
NetMAP system	Scanned image	Description
COLCHESTER GRID	COLCHESTER GRID	Primary substation
HIGH STREET	HIGH STREET HIGH STREET	Secondary substation
		Pad mounted substation
		Link box — 2 way
===	BREADERSHOOT MANAGEMENTS	Link box — 4 way (6 way etc shown similarly)
		Feeder pillar — 4 way (6 way etc shown similarly)
CHURCH RD	CHURCH RD	Pole transformer
⊙ ⊙		Poles on underground records
0-0	0-0	H pole, any voltage
▼		Service turret (solid type)
section continued on next page		

EHV, HV and LV sites continued (1:500 view)		
NetMAP system	Scanned image	Description
No NetMAP equivalent	\bigvee	Service turret (with link facility on LV main)
CAUTION Missing Information	No equivalent	Missing data in or near this location
Contaminated Land refer to SHE 01 016	Not applicable	Contaminated land reference







Cross sections continued (1:500 view)		
NetMAP system	Scanned image	Description
♣ HV3005	A HV3005	HV cable — modern EPR, Plam and Triplex with route number annotation
•	•	Pilot cable
• HV1023	HV3005	33kV cable
HV3005	HV3005	132kV cable
0	0	Single duct
888	888	6 way duct formation — irrespective of duct type and material, all are displayed similarly
_		Protective slab
_		Concrete slabs
_	BOUGGRADE.	33kV fibre warning board
-		Steel plate
_	— т/т	Plastic tile tape
Timber —	1222	Timber

Common abbreviations and	terminology (all views)
---------------------------------	-------------------------

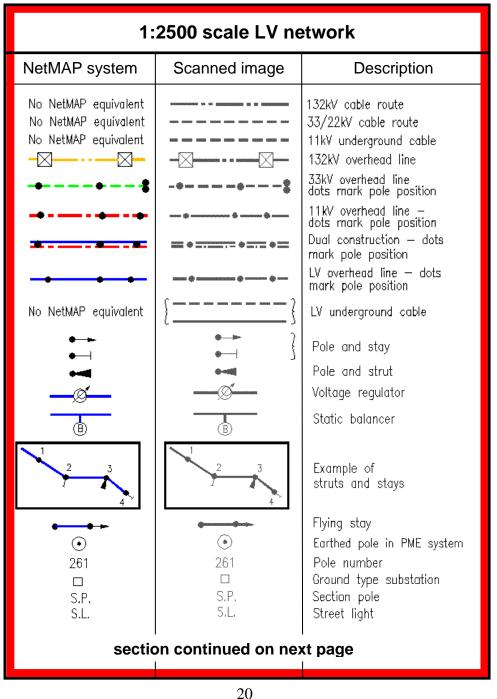
Abbrev.	Description	Abbrev.	Description
Abbrev. 1c 1ph 2c 3c 3ph ABC ABI ABSD ACCS AI AR ASL ax CB c/c ccc CCT CNE Cross phased CS E CU	Single core Single phase Two core Three core Three phase Aerial bunched (bundled)	Cut out or C/O ex DE DSTA Ea EFI EHV ELCB ELT EPR Ew E/W Fdr or F/G F/P GRP GVR HV HYBRID Insulation Insulator ITC	Meter/main fuse position Triplex (copper) Direct earth Double steel tape armoured Alpex cable Earth fault passage indicator Extra high voltage (11,001 Volts and over) Earth leakage circuit breaker Earth leakage trip Ethylene propylene rubber Waveform cable Earthenware duct or earth wire LV or HV cable fed by or feeding a substation Fuse gear Feeder pillar Fibreglass substation Gas vacuum recloser or pole mounted circuit breaker High voltage (1,001— 11,000 Volts incl) Modern plastic cable with mixed conductor material
			using Cable Avoidance Tool (CAT) or similar
	section continue	ed on ne	xt page

Common abbreviations and terminology continued (all views)

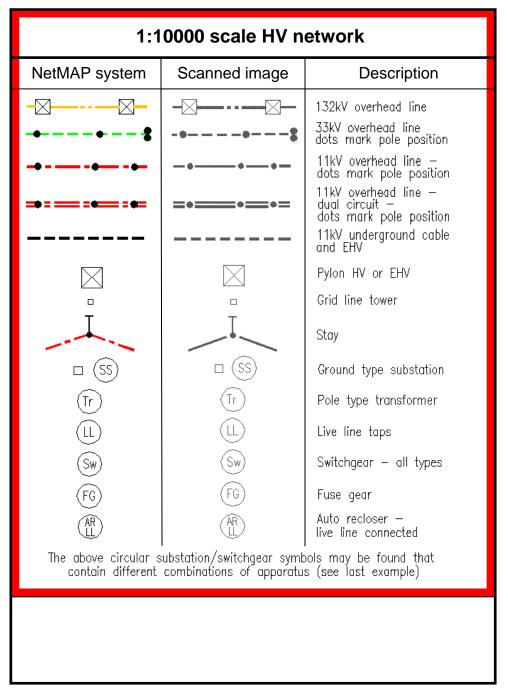
Jumper			
kV kW kVA Link box or LB LSF LV	Connecting lead between open points, section points and overhead plant Kilovolt (or 1,000 Volts) — unit of electrical pressure Kilowatt (1,000 Watts) — unit of electrical power Kilovolt Amps or power Means of connecting LV feeders together using links or fuses Low smoke & fume Low voltage (up to 1,000 Volts incl) Low voltage fuse distribution board Return path of live cable Overhead line Oil filled pole mounted sectionaliser Oil filled pole mounted recloser Pole mounted LV fuse unit Pot end or potential end — joint on cable end Usually the core colour of a cable (caution — may be cross phased) — Red,	PICAS PILC PILSTA PME PMT PMR PT C RMU RN S/C S/S STA T1 or T2 etc T/F or TX Volts	
	Yellow, Blue on old cables, or L1, L2, L3 on new cables, for example	Watts XLPE	Unit of electrical power Cross linked polyethylene

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

General		
NetMAP system Scanned image		Description
•	•	H pole Pale



1:2500 scale LV network continued		
NetMAP system	Scanned image	Description
O.R. Stay Ext. Brkt P. Box N.E. O.R. Brkt	O.R. Stay Ext. Brkt P. Box N.E. O.R. Brkt	Outrigger stay Extension bracket Pole box Neutral and earth Outrigger bracket

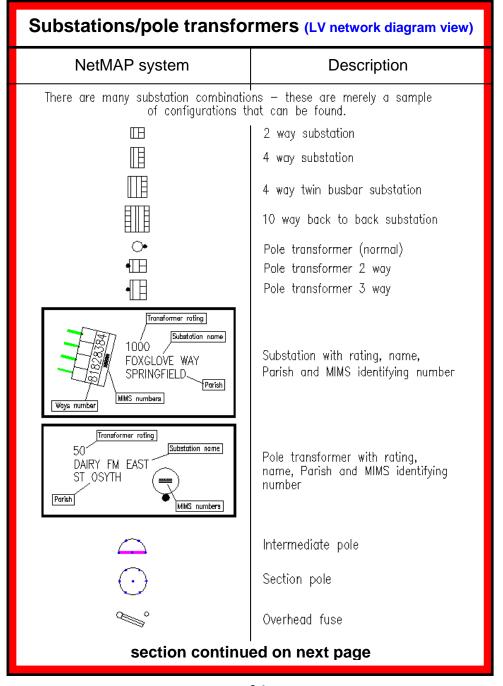


LV network diagram view-for UK Power Networks use only-boxed in red

Overhead lines		
NetMAP system	Description	
	Unknown	
	Al	
	Cu	
	ABC	
	Pole link	

Underground cables (LV network diagram view)	
NetMAP system	Description
WORKER AND	Unknown
	Al
	Cu
	CC
	TCC
	Ea
	Ec
	Ecx
	Ew
	LSF
	Other

Joints (LV network diagram view)		
NetMAP system	Description	
	Pot end ar Sicame Box Straight joint Crutch joint 3 phase termination	



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

NetMAP system Description Overview — the purple lines through the section poles are pole links — these indicate how the network is linked together 2 way link box 田 3 way link box \blacksquare 4 way link box 毌 4 way double busbar link box 4 way BICC link box 5 way link box 6 way link box 6 way double busbar link box TM1215 A two way link box with identification number, connected to ENLARGEMENT: a cable with an open point Feeder pillars - these range from 2 ways through to 9 ways a 9 way and a 2 way are shown as examples





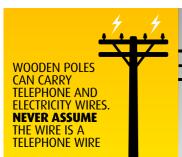


Every year, people are killed or seriously injured when they come into contact with high voltage electricity.

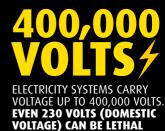
This can have a far-reaching and devastating effect on family, friends and colleagues.

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







POWER CUT?
CALL 105



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





OVERHEAD POWER LINES ARE OFTEN UNINSULATED (BARE)



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





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

TOUCHING ANYTHING IN CONTACT WITH ELECTRICAL EQUIPMENT, EVEN THE LOWEST OF VOLTAGES, 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.



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

