

# Steps to help keep you safe

• If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within

10 meters of an overhead electricity line you should call the relevant General Enquiries for free safety advice.

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity. https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice

• **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.

• **Look for signs of service cables -** an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.

• **Non NGED Network** - electricity cables, lines and equipment owned by others may also be present in addition to NGED network. They are unlikely to be shown on our plans.

• **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.

• **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.

• **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.

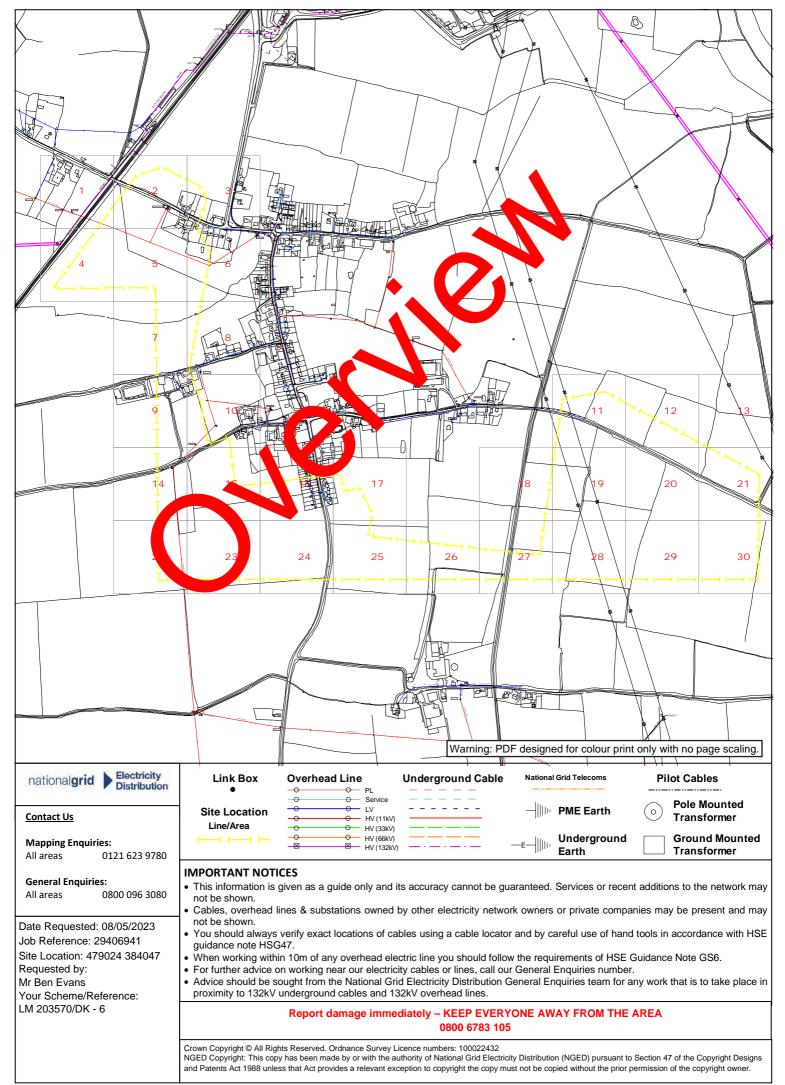
• If you are working within 10 meters of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

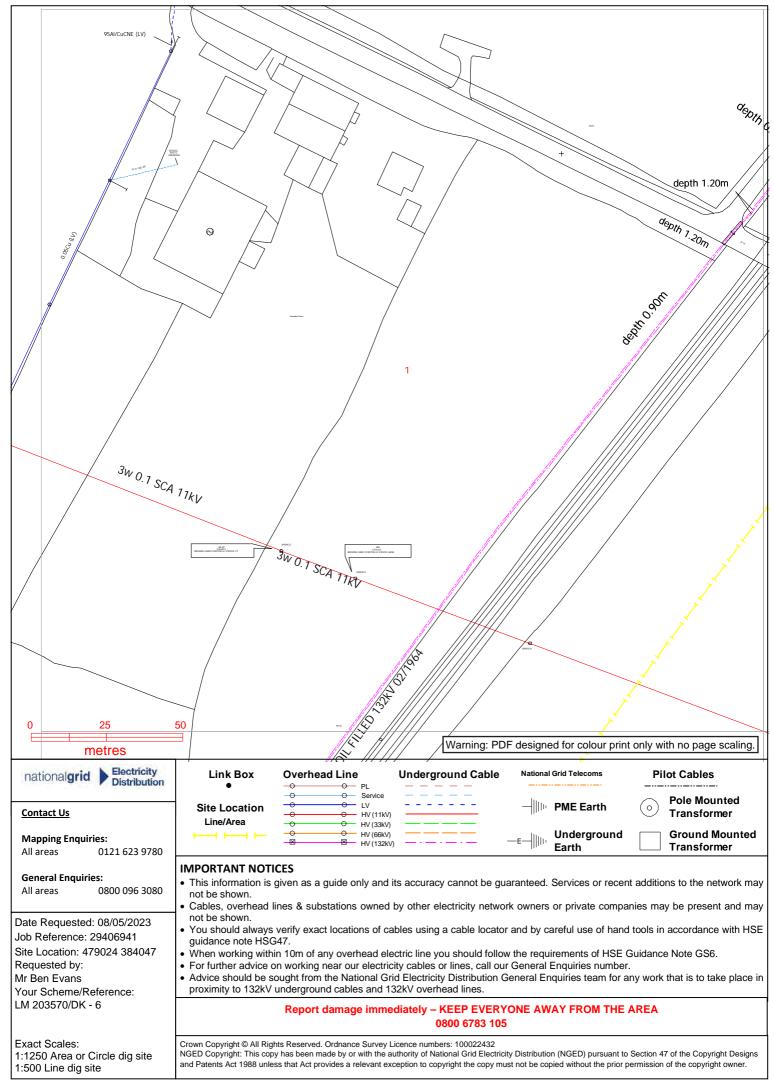
• If you are erecting a structure that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then you must inform us. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.

• **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.

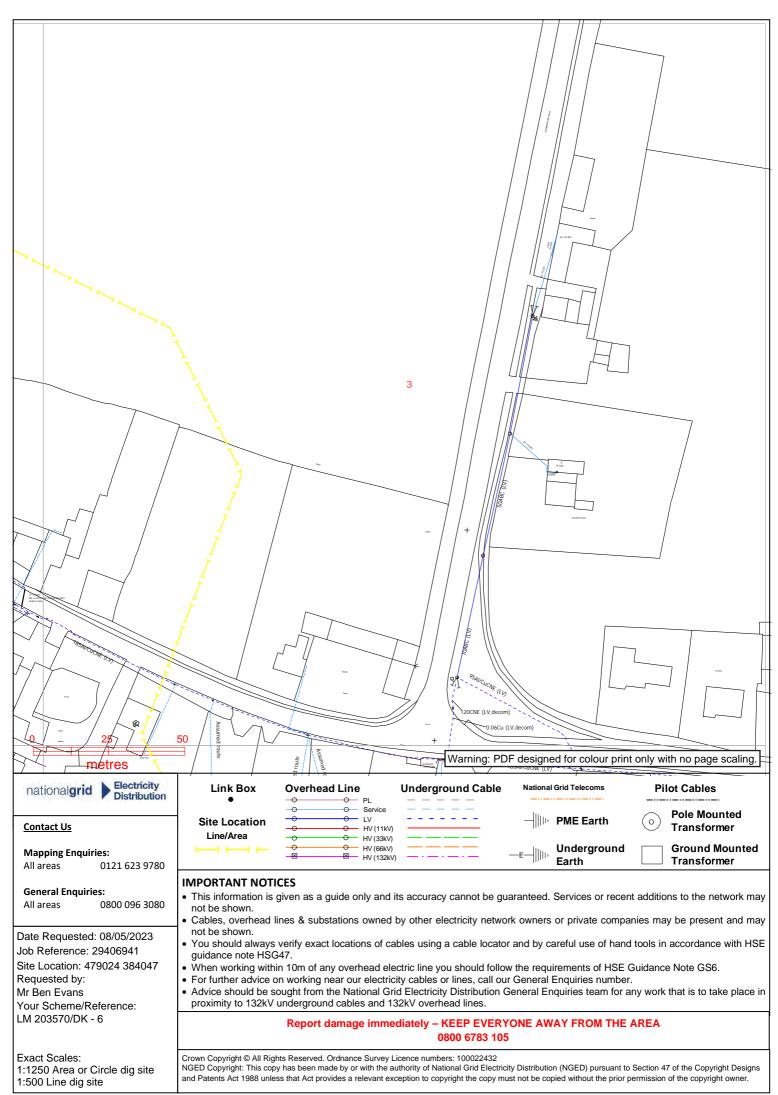
• It is possible that cables or pipes may be embedded in concrete - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

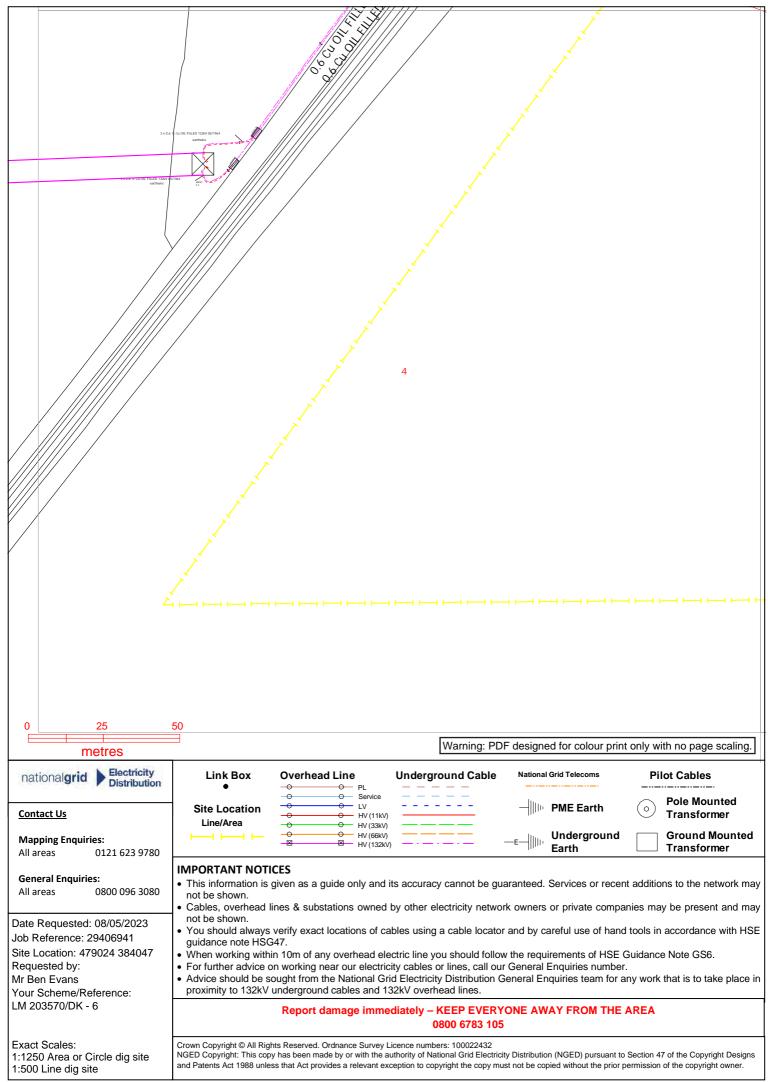
• **Cables are sometimes covered by tiles or a marker tape** - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

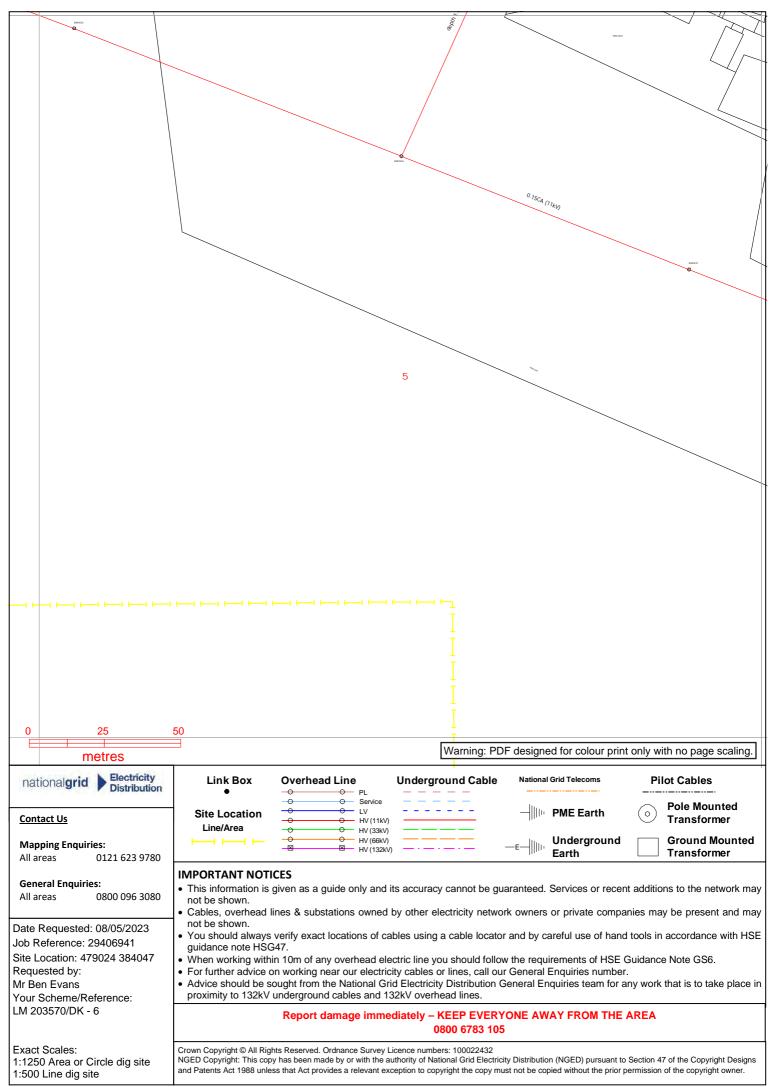




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Contact Us	Line/Area	HV (11kV)     HV (33kV)		III	<ul> <li>✓ Transformer</li> </ul>
Mapping Enquiries:		→ → HV (66kV) -⊠ ₩ (132kV)		Underground	Ground Mounted
All areas 0121 623 9780		— HV (132KV)		Earth	Transformer
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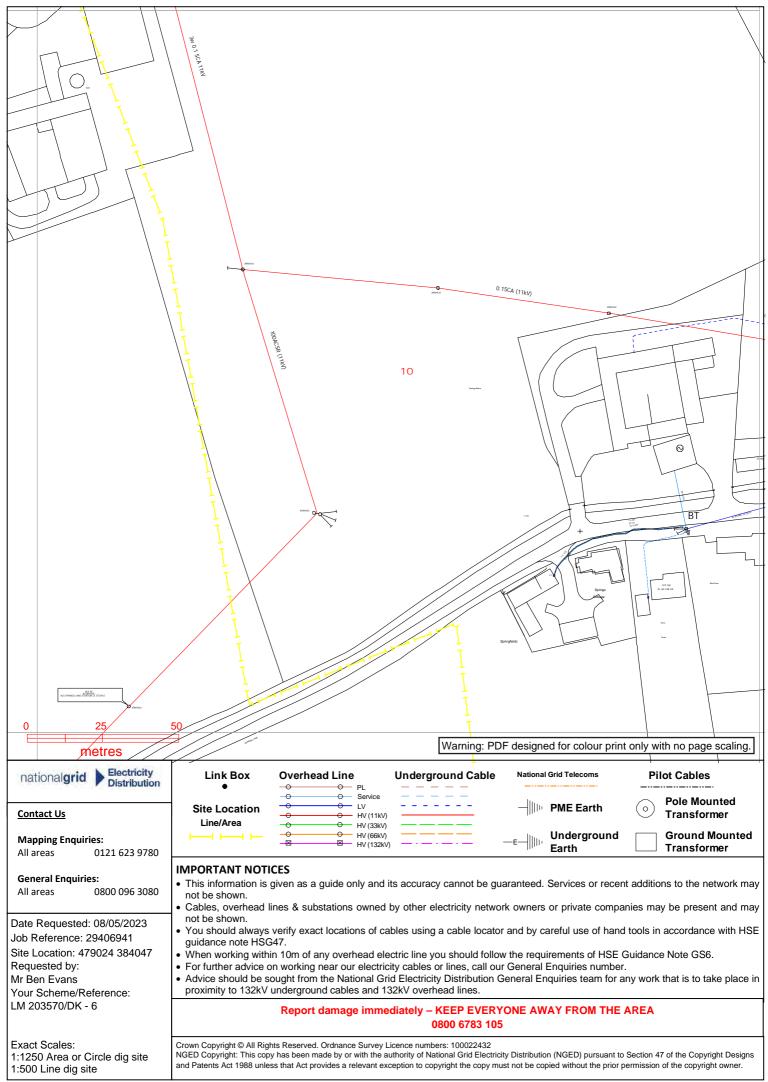


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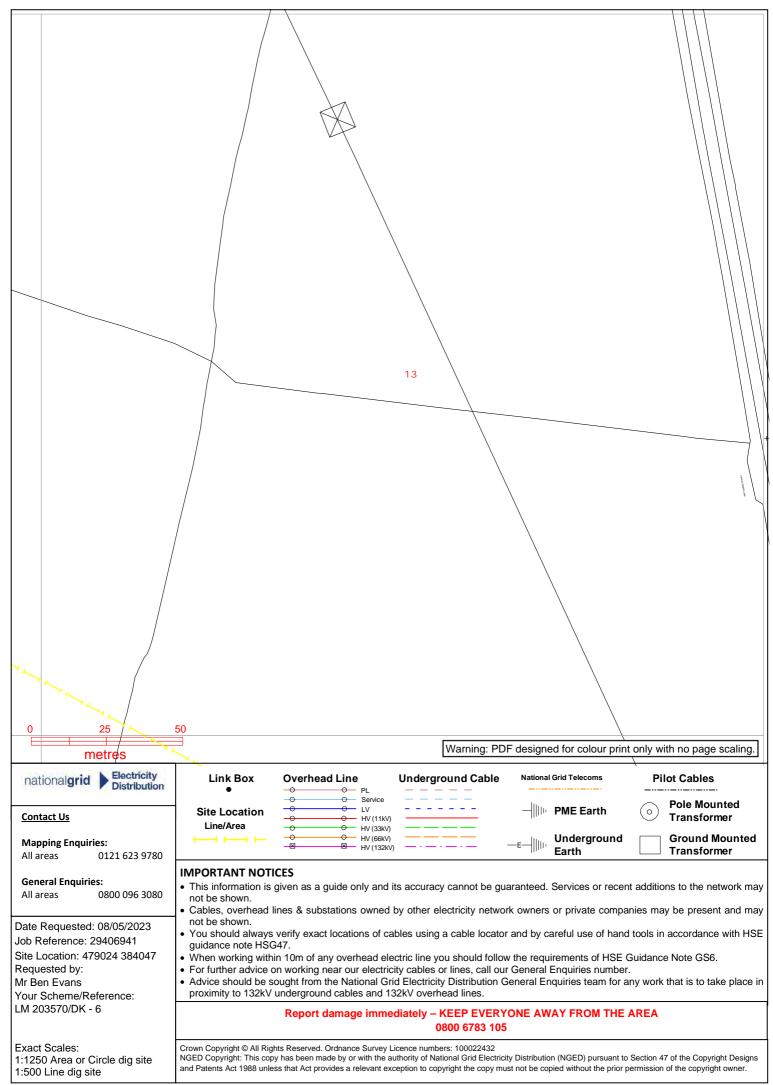
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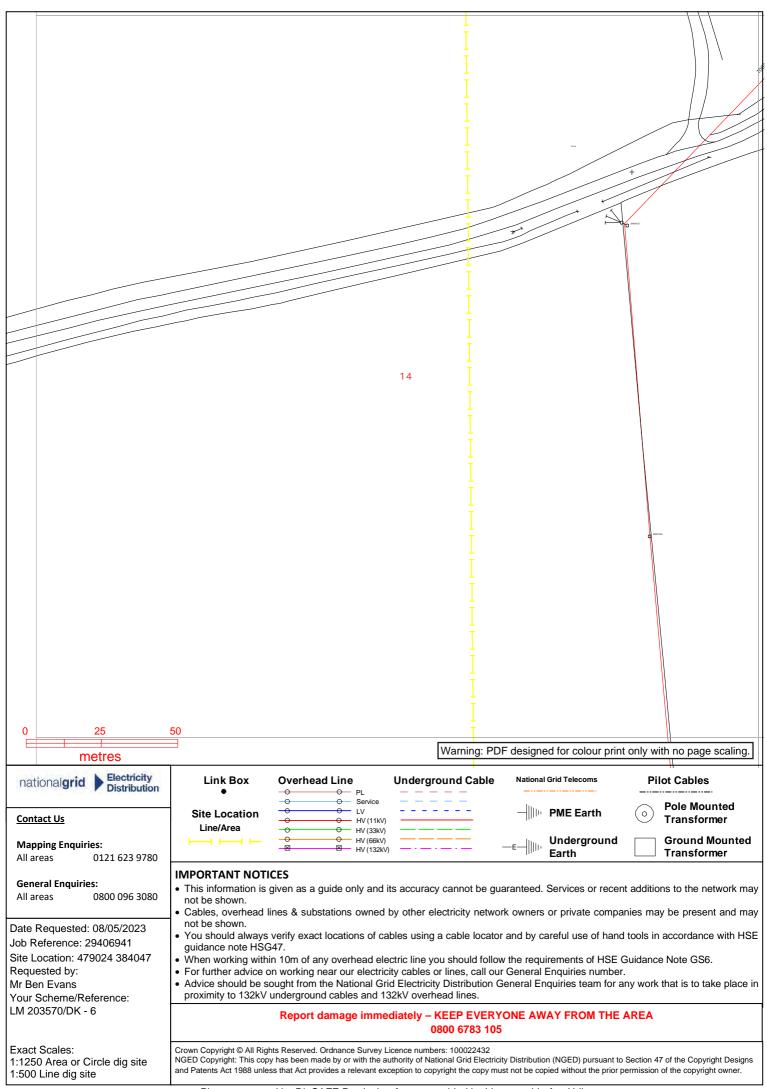
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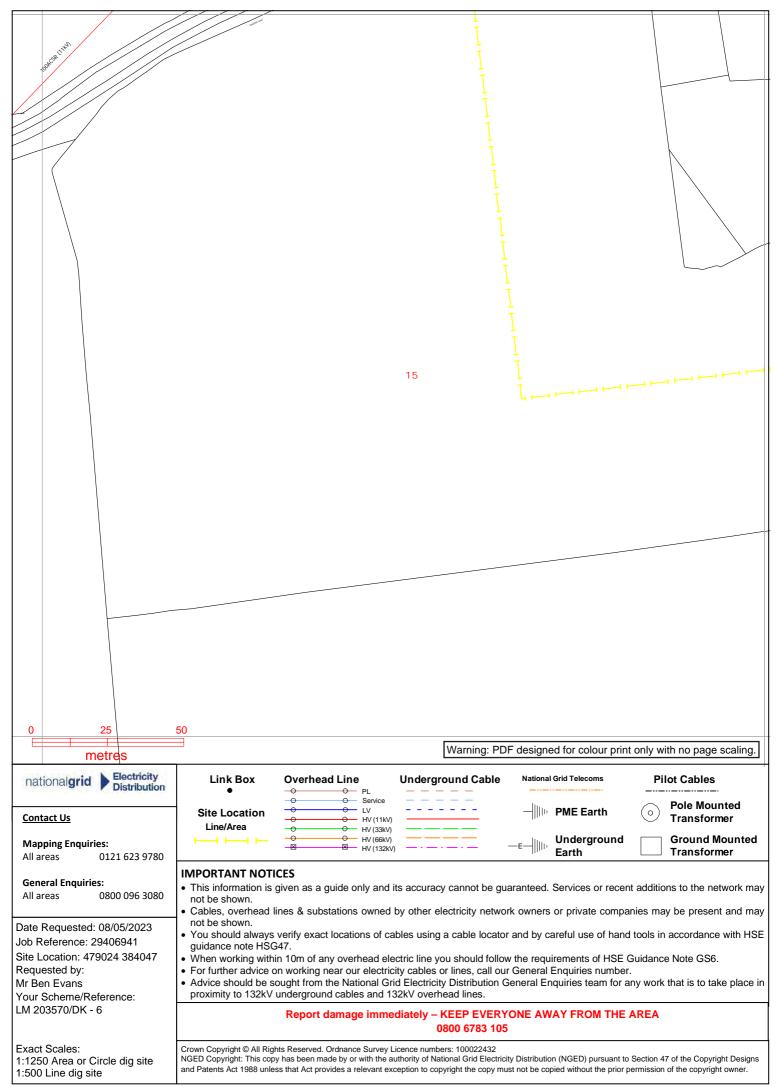


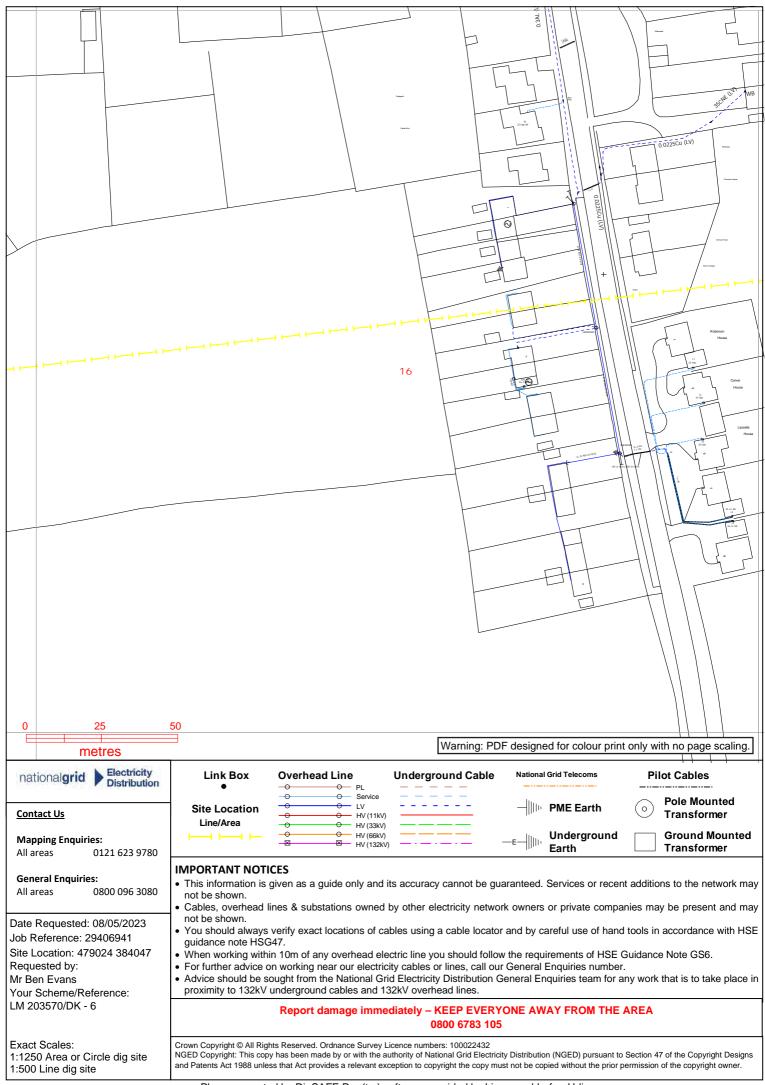
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Mationalgrid       Electricity Distribution         Contact Us       Distribution         Mapping Enquiries: All areas       0121 623 9780         General Enquiries: All areas       0800 096 3080         Date Requested:       08/05/2023	Site Location Line/Area     IMPORTANT NOT     This information is not be shown.     Cables, overhead not be shown.     You should always guidance note HS0	O     O     O     Service     O     Service     O     O     Service     O     O     V     Cost     V     O     O     HV (11kV)     O     O     HV (13kV)     O     O     O     HV (13kV)     O     O     O     HV (13kV)     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O	rground Cable	National Grid Telecoms          National Grid Telecoms         Image: PME Earth         Earth         Earth         Earth         Aranteed. Services or recent         k owners or private comparante         and by careful use of hand	Pilot Cables         O       Pole Mounted         Transformer       Ground Mounted         Transformer       Transformer         Int additions to the network may       anies may be present and may         d tools in accordance with HSE       Int accordance with HSE
metres         nationalgrid       Electricity Distribution         Contact Us         Mapping Enquiries: All areas       0121 623 9780         General Enquiries: All areas       0800 096 3080         Date Requested:       08/05/2023         Job Reference:       29406941         Site Location:       479024 384047         Requested by:       1000000000000000000000000000000000000	<ul> <li>Site Location Line/Area</li> <li>IMPORTANT NOT</li> <li>This information is not be shown.</li> <li>Cables, overhead not be shown.</li> <li>You should always guidance note HS'</li> <li>When working with</li> <li>For further advice</li> </ul>	O     O     PL     Service     V     Service     V     V     Service     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V	rground Cable	National Grid Telecoms          National Grid Telecoms         Image: PME Earth         E       Image: Underground Earth         aranteed. Services or recent         k owners or private comparant by careful use of hand         and by careful use of hand         the requirements of HSE         General Enguiries numbe	Pilot Cables Pole Mounted Transformer Ground Mounted Transformer nt additions to the network may anies may be present and may d tools in accordance with HSE Guidance Note GS6. r.
metres         metres         nationalgrid Electricity Distribution         Contact Us         Mapping Enquiries:         All areas       0121 623 9780         General Enquiries:         All areas       0800 096 3080         Date Requested: 08/05/2023         Job Reference:       29406941         Site Location: 479024 384047         Requested by:         Mr Ben Evans       0	<ul> <li>Site Location Line/Area</li> <li>IMPORTANT NOT</li> <li>This information is not be shown.</li> <li>Cables, overhead not be shown.</li> <li>Cables, overhead not be shown.</li> <li>You should always guidance note HS'</li> <li>When working witt</li> <li>For further advice</li> <li>Advice should be seen to the s</li></ul>	O     O     PL     Service     C     Service     V     Service     V     V     Service     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V	rground Cable	National Grid Telecoms          National Grid Telecoms         Image: PME Earth         E       Image: Underground Earth         aranteed. Services or recent         k owners or private comparant by careful use of hand         and by careful use of hand         the requirements of HSE         General Enguiries numbe	Pilot Cables Pole Mounted Transformer Ground Mounted Transformer nt additions to the network may anies may be present and may d tools in accordance with HSE Guidance Note GS6. r.
metres         mationalgrid       Electricity Distribution         Contact Us         Mapping Enquiries: All areas       0121 623 9780         General Enquiries: All areas       0800 096 3080         Date Requested: 08/05/2023         Job Reference: 29406941         Site Location: 479024 384047         Requested by: Mr Ben Evans         Your Scheme/Reference:	<ul> <li>Site Location Line/Area</li> <li>IMPORTANT NOT</li> <li>This information is not be shown.</li> <li>Cables, overhead not be shown.</li> <li>Cables, overhead not be shown.</li> <li>You should always guidance note HS'</li> <li>When working witt</li> <li>For further advice</li> <li>Advice should be seen to the s</li></ul>	O     O     O     Service     O     Service     O     O     Service     O     O     V     Construct     O     O     V     Construct     O     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     V     O     O     O     V     O     O     O     V     O     O     O     V     O     O     O     O     V     O     O     O     O     V     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O     O	rground Cable	National Grid Telecoms          Mational Grid Telecoms         Image: PME Earth         Emilian         Underground         Earth         aranteed. Services or recent         k owners or private comparation         and by careful use of hand         the requirements of HSE         General Enquiries number         eneral Enquiries team for a	Pilot Cables         O       Pole Mounted         Transformer       Ground Mounted         Transformer       Transformer         Int additions to the network may       anies may be present and may         d tools in accordance with HSE       Guidance Note GS6.         r.       any work that is to take place in
metres         mationalgrid       Electricity Distribution         Contact Us         Mapping Enquiries: All areas       0121 623 9780         General Enquiries: All areas       0800 096 3080         Date Requested: 08/05/2023         Job Reference: 29406941         Site Location: 479024 384047         Requested by: Mr Ben Evans	<ul> <li>Site Location Line/Area</li> <li>IMPORTANT NOT</li> <li>This information is not be shown.</li> <li>Cables, overhead not be shown.</li> <li>Cables, overhead not be shown.</li> <li>You should always guidance note HS'</li> <li>When working witt</li> <li>For further advice</li> <li>Advice should be seen to the s</li></ul>	O     O     PL     Service     C     Service     V     Service     V     V     Service     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V     V	rground Cable	National Grid Telecoms          Mational Grid Telecoms         Image: PME Earth         Emilian         Underground         Earth         aranteed. Services or recent         k owners or private comparation         and by careful use of hand         the requirements of HSE         General Enquiries number         eneral Enquiries team for a	Pilot Cables         O       Pole Mounted         Transformer       Ground Mounted         Transformer       Transformer         Int additions to the network may       anies may be present and may         d tools in accordance with HSE       Guidance Note GS6.         r.       any work that is to take place in
metres         nationalgrid       Electricity Distribution         Contact Us         Mapping Enquiries: All areas       0121 623 9780         General Enquiries: All areas       0800 096 3080         Date Requested:       08/05/2023         Job Reference:       29406941         Site Location:       479024 384047         Requested by: Mr Ben Evans Your Scheme/Reference:       LM 203570/DK - 6	<ul> <li>Site Location Line/Area</li> <li>Important not</li> <li>This information is not be shown.</li> <li>Cables, overhead not be shown.</li> <li>Cables, overhead not be shown.</li> <li>You should always guidance note HS:</li> <li>When working with</li> <li>For further advice</li> <li>Advice should be s proximity to 132kV</li> </ul>	PL Service CV CV CV CV CV CV CV CV CV CV CV CV CV	rground Cable	National Grid Telecoms          Mational Grid Telecoms         Image: PME Earth         Emilian         Underground         Earth         aranteed. Services or recent         k owners or private comparation         and by careful use of hand         the requirements of HSE         General Enquiries number         eneral Enquiries team for a	Pilot Cables         O       Pole Mounted         Transformer       Ground Mounted         Transformer       Transformer         Int additions to the network may       anies may be present and may         d tools in accordance with HSE       Guidance Note GS6.         r.       any work that is to take place in
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metres         nationalgrid       Electricity Distribution         Contact Us       Distribution         Mapping Enquiries: All areas       0121 623 9780         General Enquiries: All areas       0800 096 3080         Date Requested:       08/05/2023         Job Reference:       29406941         Site Location:       479024 384047         Requested by: Mr Ben Evans Your Scheme/Reference:       LM 203570/DK - 6	Site Location Line/Area     ImPORTANT NOT     This information is not be shown.     Cables, overhead not be shown.     You should always guidance note HS:     When working witt     For further advice     Advice should be s proximity to 132kV     Crown Copyright © All Rig NGED Copyright: This co	O     O     PL     Service     C     Service     O     O     PL     O     Service     O     C     C     C     C     O     O     C     C     C     O     O     C     C     C     O     O     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C     C	rground Cable	National Grid Telecoms	Pilot Cables         O       Pole Mounted         Transformer       Ground Mounted         Transformer       Transformer         Int additions to the network may       anies may be present and may         anies may be present and may       additions in accordance with HSE         Guidance Note GS6.       r.         any work that is to take place in       AREA

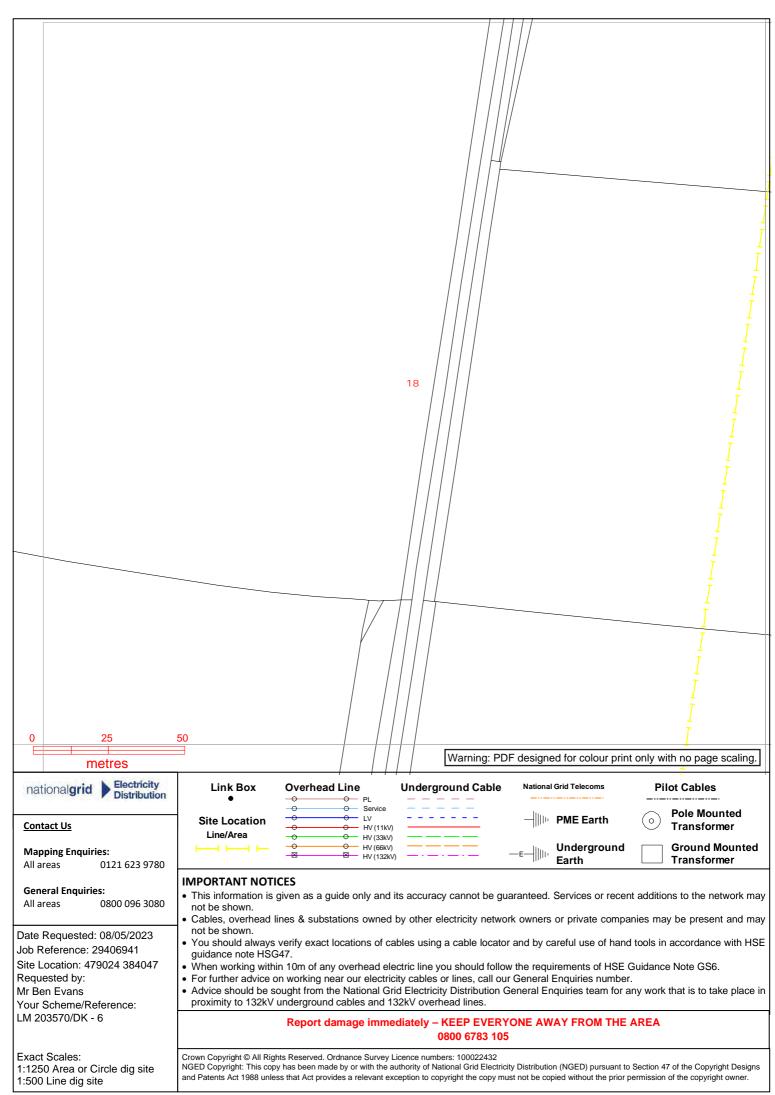


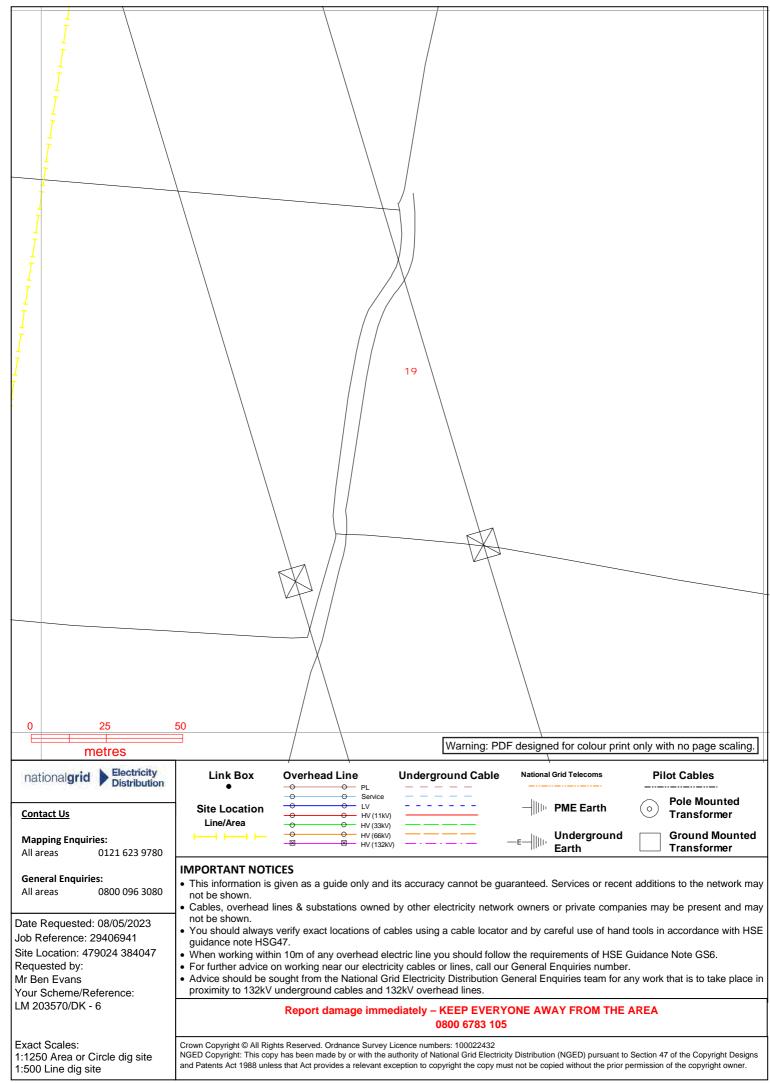






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nationalgrid Electricity Distribution	Link Box • Site Location	Overhead Line           -O         O           -O         O           Service         O           -O         LV	Underground Cable	National Grid Telecoms	Pilot Cables Pole Mounted
Contact Us Mapping Enquiries:	Line/Area	HV (11kV)     HV (33kV)     HV (66kV)     HV (112kV)     HV (112kV)     HV (112kV)		Underground	<ul> <li>Transformer</li> <li>Ground Mounted</li> </ul>
All areas 0121 623 9780	IMPORTANT NOTI	110 (10210)	, <b>_</b>	Earth	Transformer
General Enquiries: All areas 0800 096 3080	<ul> <li>This information is not be shown.</li> </ul>	given as a guide only and i			additions to the network may
Date Requested: 08/05/2023	<ul><li>not be shown.</li><li>You should always</li></ul>	verify exact locations of ca			tools in accordance with HSE
Job Reference: 29406941 Site Location: 479024 384047 Requested by: Mr Ben Evans Your Scheme/Reference:	<ul> <li>For further advice of</li> <li>Advice should be so</li> </ul>	in 10m of any overhead ele on working near our electric	ity cables or lines, call our d Electricity Distribution G	the requirements of HSE G General Enquiries number. eneral Enquiries team for a	
LM 203570/DK - 6		-		ONE AWAY FROM THE /	AREA
Exact Scales: 1:1250 Area or Circle dig site 1:500 Line dig site	NGED Copyright: This copy		uthority of National Grid Electricit	y Distribution (NGED) pursuant to st not be copied without the prior pe	Section 47 of the Copyright Designs ermission of the copyright owner.





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	50 Link Box	Overhead Line     Underground Cable     National Grid Telecoms     Pilot Cables       O     PL     -     -     -
metres	Link Box • Site Location	Overhead Line     Underground Cable     National Grid Telecoms     Pilot Cables       Or point     Service     Image: Comparison of the service     Image: Comparison of the service     Point Cables       Or point     Service     Image: Comparison of the service     Image: Comparison of the service     Point Cables       Or point     Service     Image: Comparison of the service     Image: Comparison of the service     Point Cables       Or point     Service     Image: Comparison of the service     Image: Comparison of the service     Point Cables
metres nationalgrid Electricity Distribution	Link Box • Site Location Line/Area	Overhead Line     Underground Cable     National Grid Telecoms     Pilot Cables       Output
nationalgrid Electricity	Link Box • Site Location	Overhead Line     Underground Cable     National Grid Telecoms     Pilot Cables       Output     Service     Image: Control of the service     Image: Control of the service     Image: Control of the service       Image: Control of the service     Image: Control of the service     Image: Control of the service     Image: Control of the service       Image: Control of the service     Image: Control of the service     Image: Control of the service     Image: Control of the service       Image: Control of the service     Image: Control of the service     Image: Control of the service     Image: Control of the service       Image: Control of the service     Image: Control of the service     Image: Control of the service     Image: Control of the service       Image: Control of the service     Image: Control of the service     Image: Control of the service     Image: Control of the service       Image: Control of the service     Image: Control of the service     Image: Control of the service     Image: Control of the service       Image: Control of the service     Image: Control of the service     Image: Control of the service     Image: Control of the service       Image: Control of the service     Image: Control of the service     Image: Control of the service     Image: Control of the service       Image: Control of the service     Image: Control of the service     Image: Control of the service     Image: Control of the service       Image: Control of the serv
metres         nationalgrid       Electricity Distribution         Contact Us         Mapping Enquiries: All areas       0121 623 9780	Link Box • Site Location Line/Area • IMPORTANT NOT	Overhead Line       Underground Cable       National Grid Telecoms       Pilot Cables         Overhead Line       PL       Overhead Cable
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metres         nationalgrid       Electricity Distribution         Contact Us         Mapping Enquiries: All areas       0121 623 9780         General Enquiries: All areas       0800 096 3080	Link Box • Site Location Line/Area • IMPORTANT NOT • This information is not be shown.	Overhead Line       Underground Cable       National Grid Telecoms       Pilot Cables         Overhead Line       PL       Overhead Cable
metres         nationalgrid       Electricity Distribution         Contact Us         Mapping Enquiries: All areas       0121 623 9780         General Enquiries:	Link Box • Site Location Line/Area • IMPORTANT NOT • This information is not be shown. • Cables, overhead not be shown. • You should always	Overhead Line       Underground Cable       National Grid Telecoms       Pilot Cables         Overhead Line       LV       Pole Mounted       Pole Mounted         Overhead Line       LV       Image: Construction of the second
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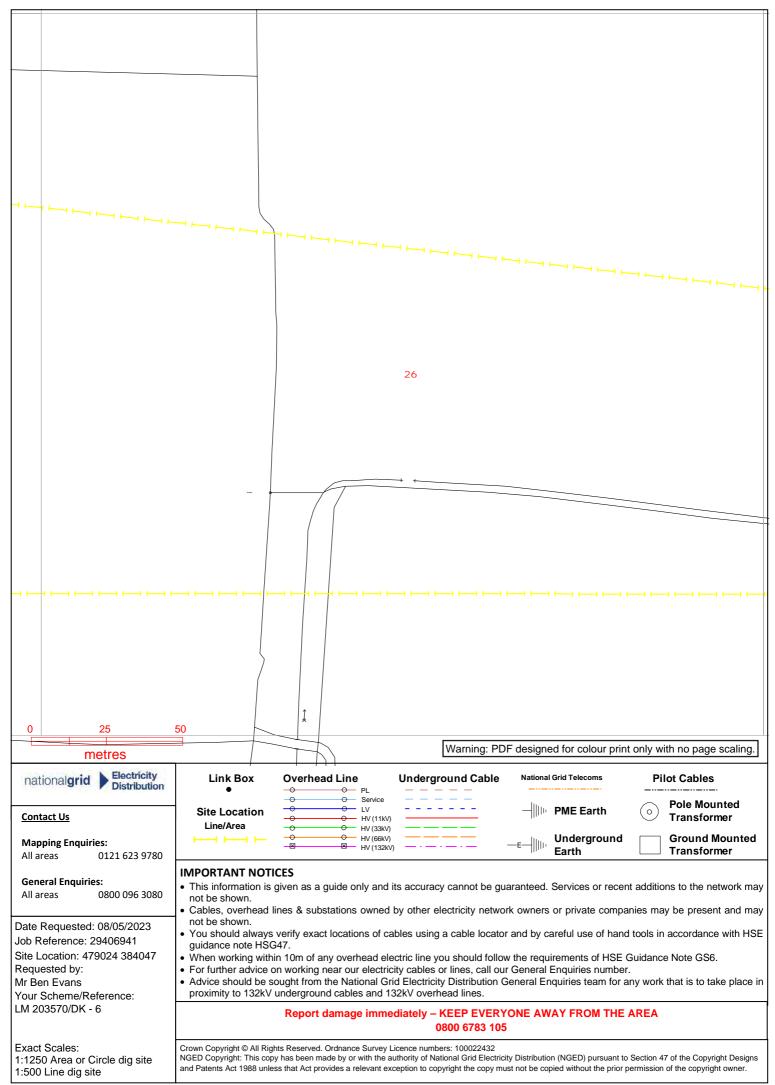
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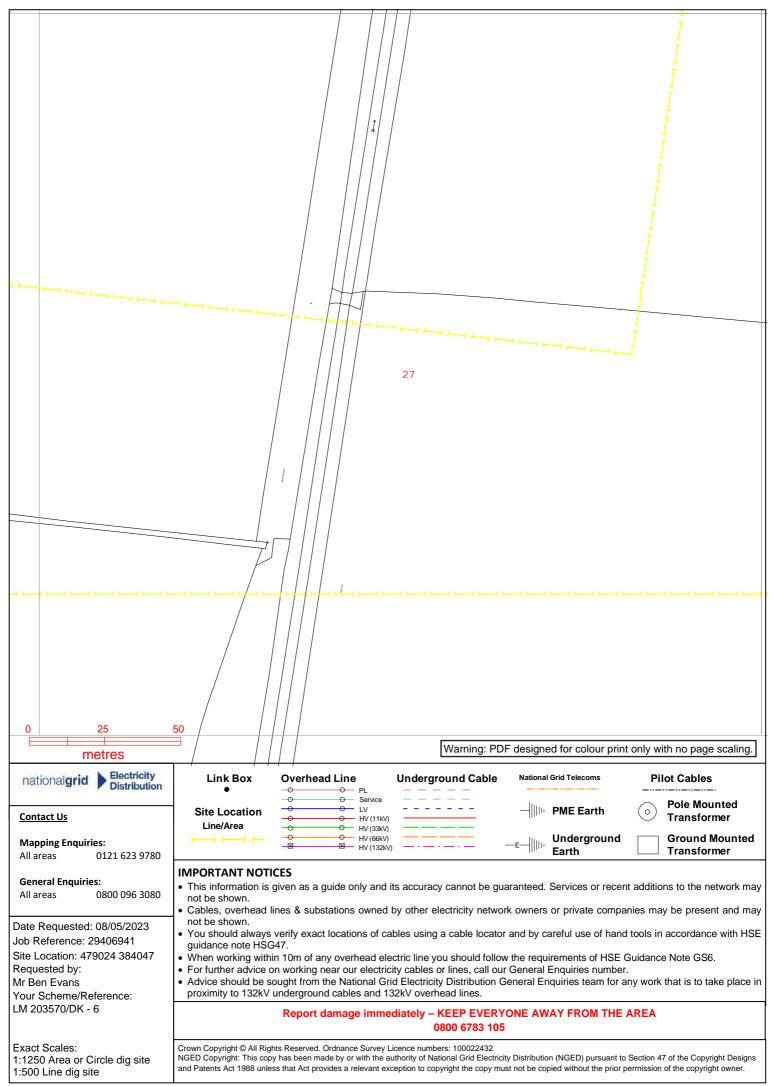
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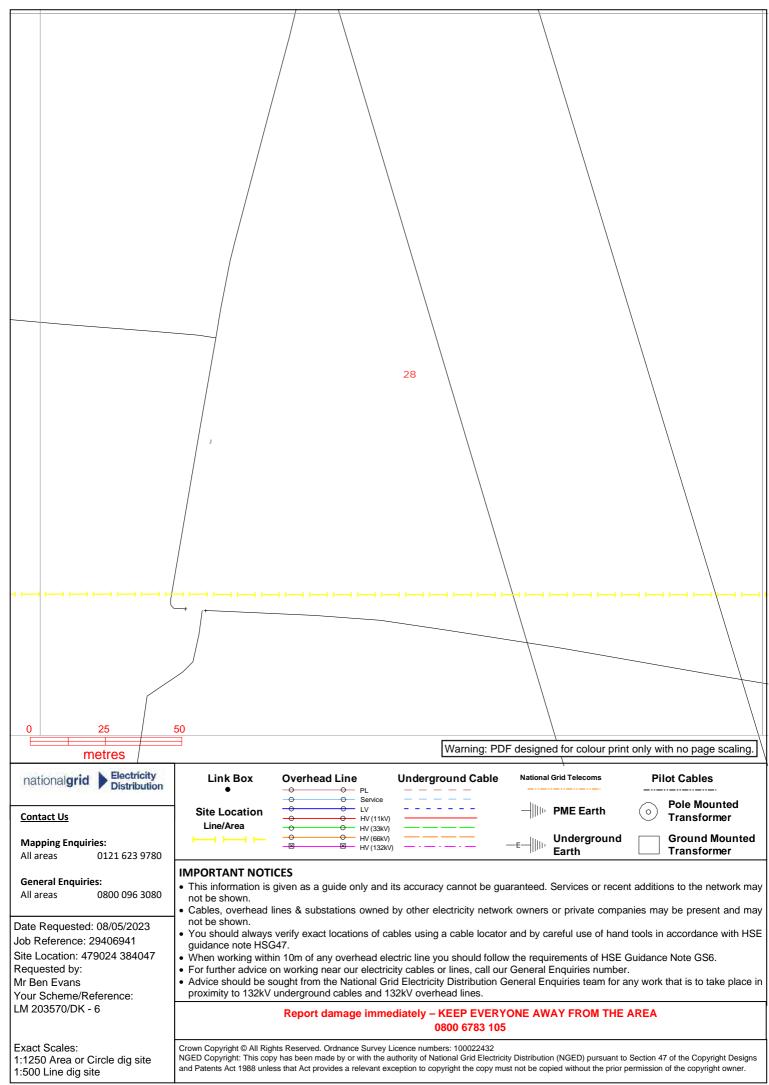
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General Enquiries:All areas0800 096 3080Date Requested: 08/05/2023Job Reference: 29406941Site Location: 479024 384047Requested by:Mr Ben EvansYour Scheme/Reference:LM 202570/DK = 6	<ul> <li>This information is given as a guide only and its accuracy cannot be guaranteed. Services or recent additions to the network may not be shown.</li> <li>Cables, overhead lines &amp; substations owned by other electricity network owners or private companies may be present and may not be shown.</li> <li>You should always verify exact locations of cables using a cable locator and by careful use of hand tools in accordance with HSE guidance note HSG47.</li> <li>When working within 10m of any overhead electric line you should follow the requirements of HSE Guidance Note GS6.</li> <li>For further advice on working near our electricity cables or lines, call our General Enquiries number.</li> <li>Advice should be sought from the National Grid Electricity Distribution General Enquiries team for any work that is to take place in proximity to 132kV underground cables and 132kV overhead lines.</li> </ul>					
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Exact Scales: 1:1250 Area or Circle dig site 1:500 Line dig site	Crown Copyright © All Rights Reserved. Ordnance Survey Licence numbers: 100022432 NGED Copyright: This copy has been made by or with the authority of National Grid Electricity Distribution (NGED) pursuant to Section 47 of the Copyright Designs and Patents Act 1988 unless that Act provides a relevant exception to copyright the copy must not be copied without the prior permission of the copyright owner.					

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Our Ref: 29406942 Your Ref: LM 203570/DK - 7

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West Almondsbury Bristol BS32 4RZ

Dear Ben Evans

Thank you for your enquiry dated Monday, 08 May 2023

I now enclose a copy of our plan showing existing National Grid Electricity Distribution (NGED) Electricity / National Grid Telecoms (NGT) apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all NGED equipment on site should be assumed to be LIVE until NGED prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either NGED Electrical apparatus or NGT Telecoms apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015. Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. NGT Telecoms ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Where diversions to NGED apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Following consultation the local NGED team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

This information is given as a guide only and its accuracy cannot be guaranteed. This plan is based on data from our Geographic Information System, which is updated every 24 hours to reflect changes to our network. The information contained in this plan reflects the most recent network GIS data, however changes to the network (including network additions and new service

### National Grid Electricity Distribution Mapping Centre Toll End Road Tipton West Midlands United Kingdom DY4 0HH www.nationalgrid.co.uk

Map Response T 0121 623 9780 NGED.MapResponse @nationalgrid.co.uk

National Grid Electrricity Distribution South West - 02366894 South Wales - 02366985 East Midlands - 02366923 West Midlands - 03600574

Registered in England and Wales

Registered Office: Avonbank Feeder Road Bristol BS2 0TB

### **Safety Documents:**

https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice





connections) may not be shown. You are advised to obtain an up to date plan on the date of commencing on-site works.

Yours sincerely NGED Map Response Team

**Contact Us** 

**Emergency or Power Supply issues** In an emergency call 105, 24 hours a day.

#### **Mapping Enquiries**

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone0121 623 9780EmailNGED.MapResponse@nationalgrid.co.uk

#### **General Enquiries**

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

#### LSBUD

If you have an enquiry relating to the use of the LSBUD website please contact LSBUD using the following information:

Telephone 0345 437 7365 Email enquiries@LSBUD.co.uk Website www.LSBUD.co.uk



# Steps to help keep you safe

• If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within

10 meters of an overhead electricity line you should call the relevant General Enquiries for free safety advice.

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity. https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice

• **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.

• **Look for signs of service cables -** an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.

• **Non NGED Network** - electricity cables, lines and equipment owned by others may also be present in addition to NGED network. They are unlikely to be shown on our plans.

• **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.

• **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.

• **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.

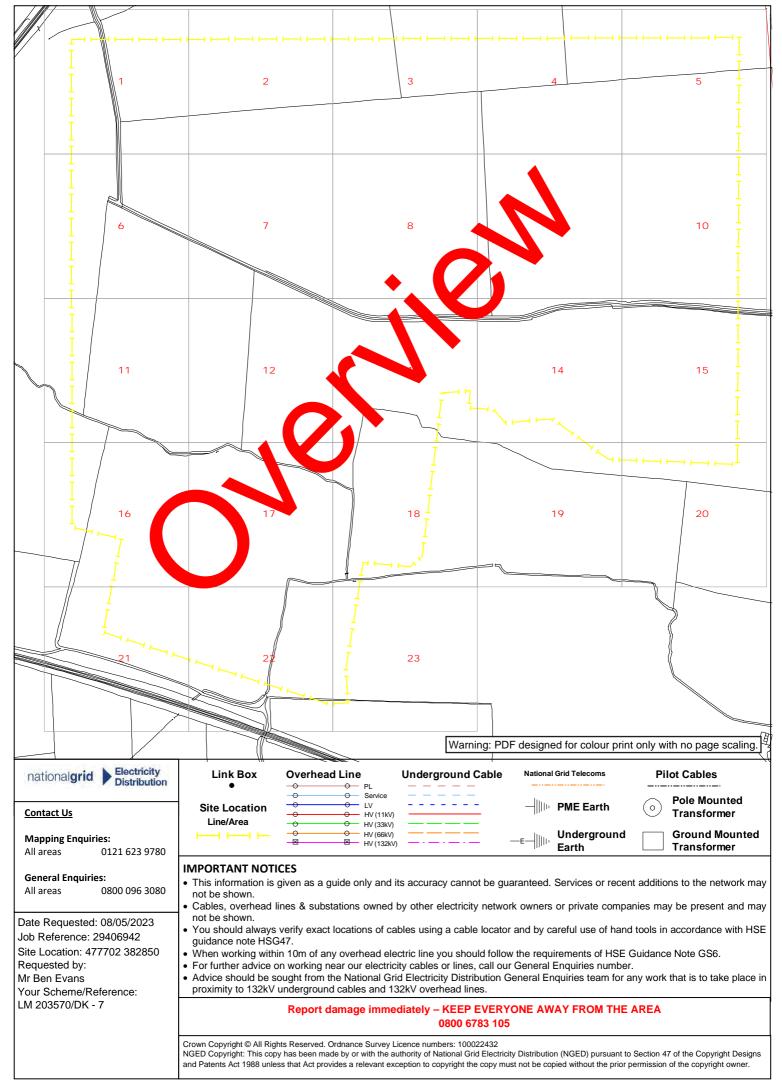
• If you are working within 10 meters of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

• If you are erecting a structure that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then you must inform us. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.

• **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.

• It is possible that cables or pipes may be embedded in concrete - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

• **Cables are sometimes covered by tiles or a marker tape** - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.



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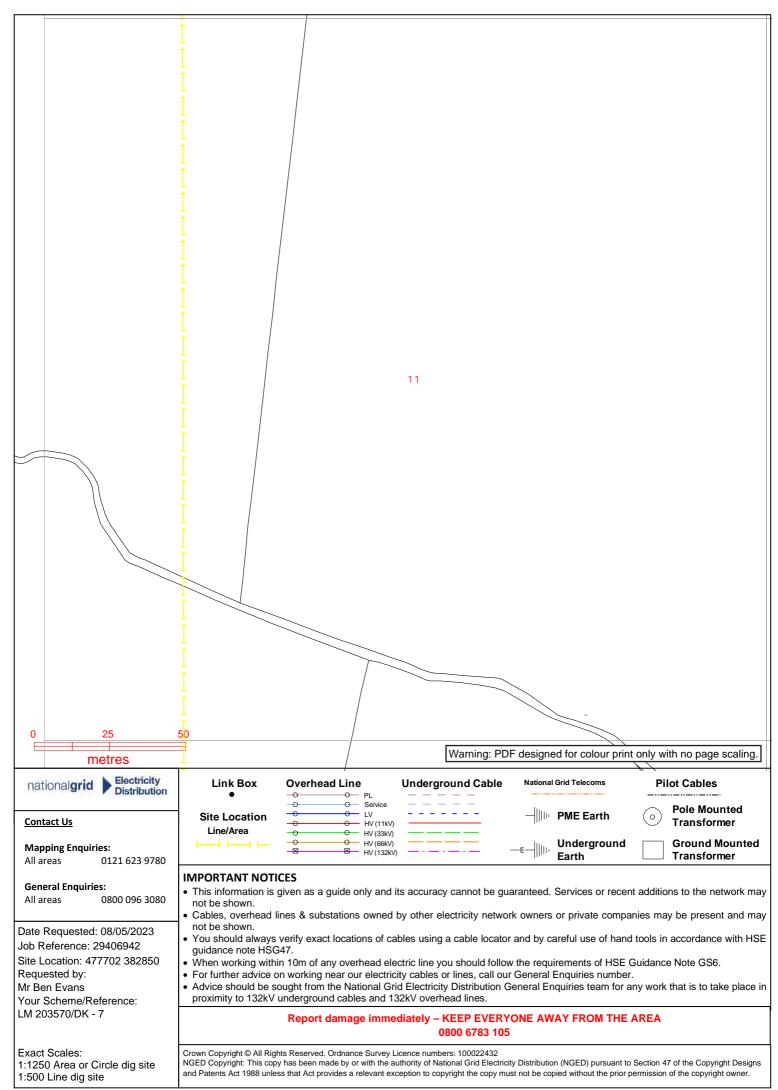
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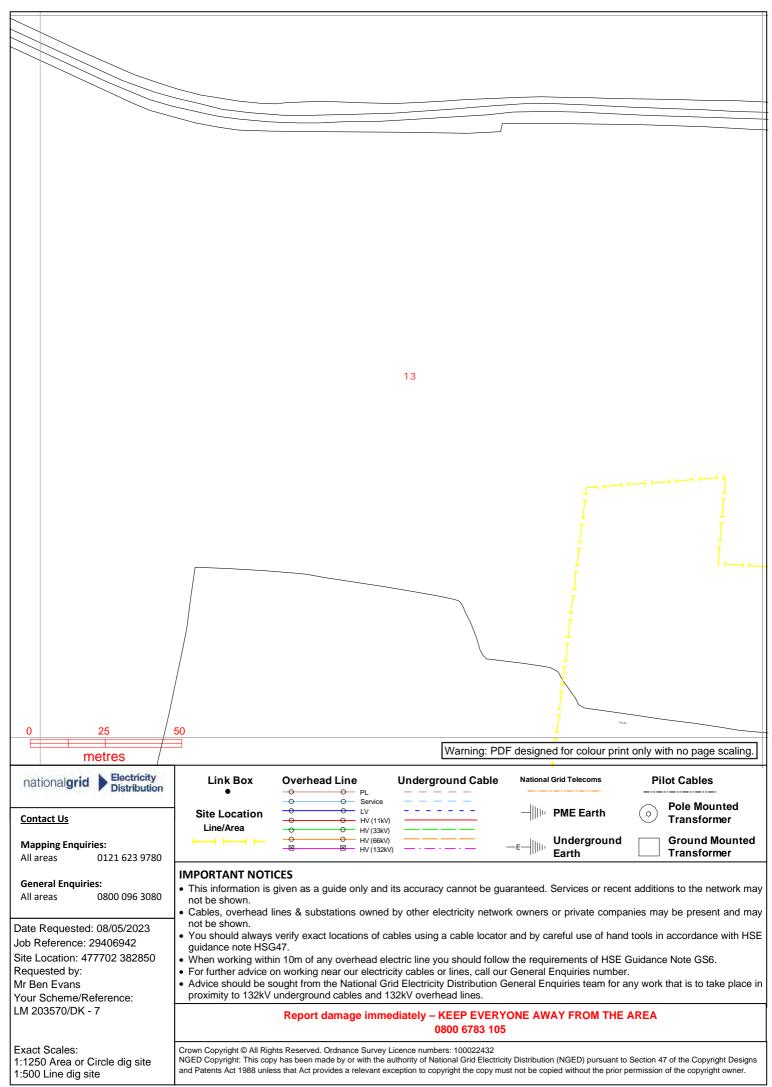
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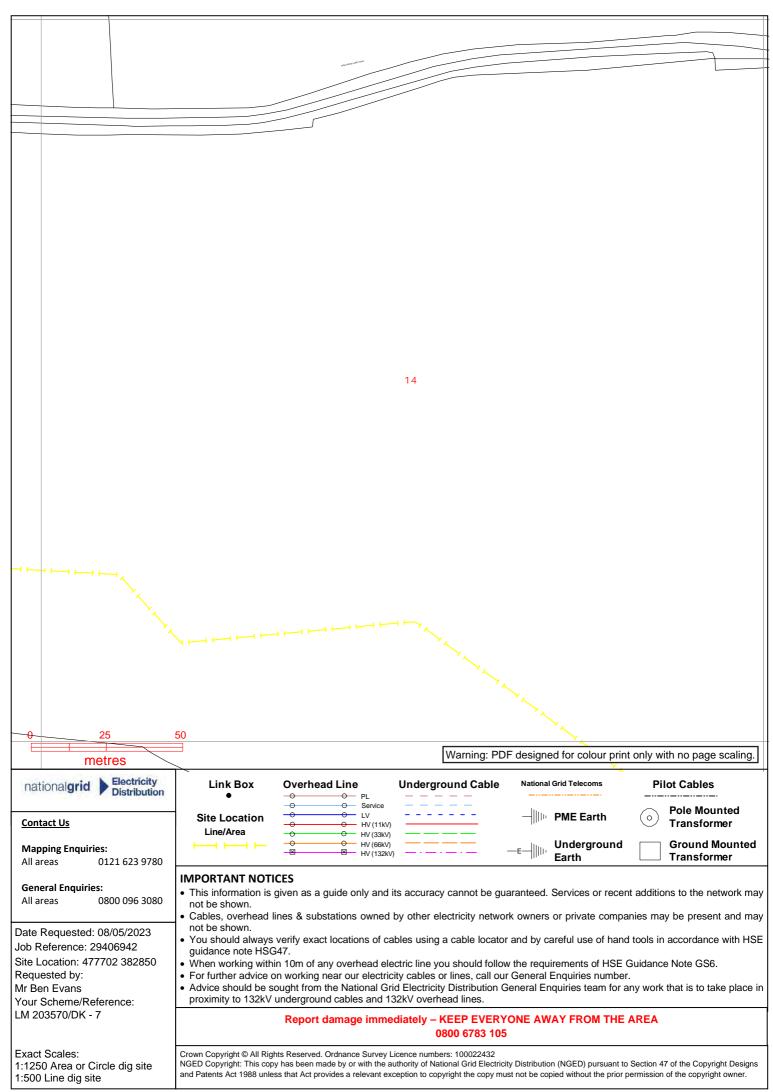
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Requested by:	<ul> <li>For further advice on working near our electricity cables or lines, call our General Enquiries number.</li> </ul>
Mr Ben Evans Your Scheme/Reference:	<ul> <li>Advice should be sought from the National Grid Electricity Distribution General Enquiries team for any work that is to take place in proximity to 132kV underground cables and 132kV overhead lines.</li> </ul>
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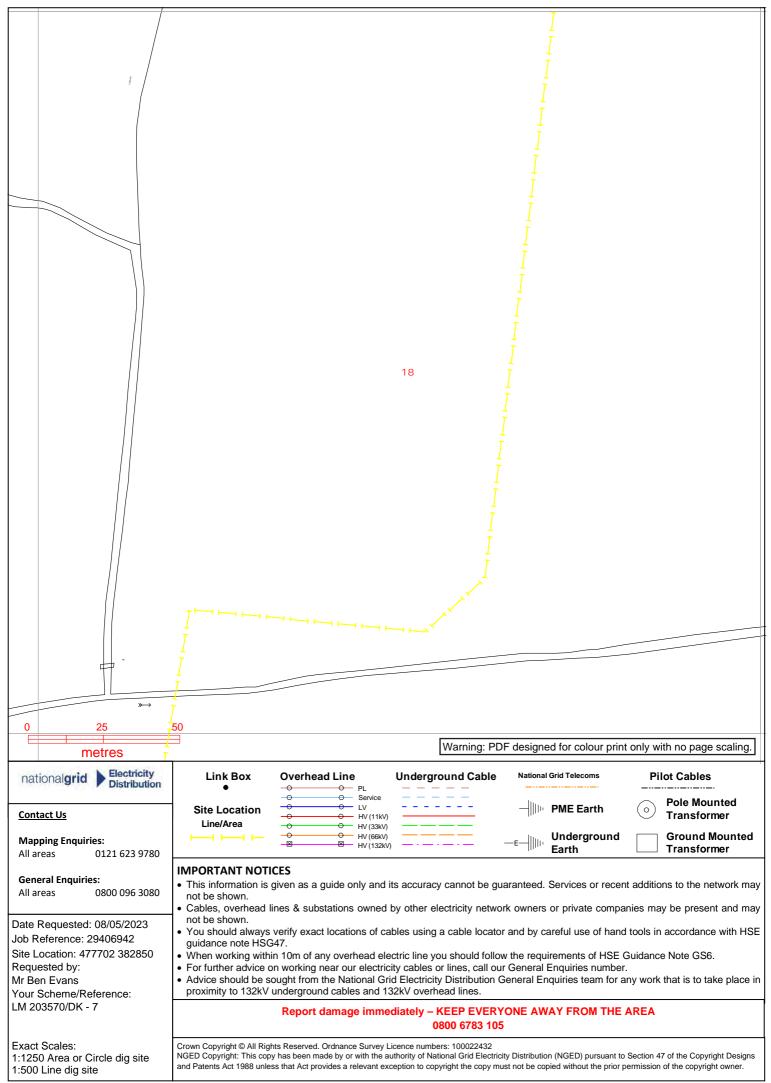


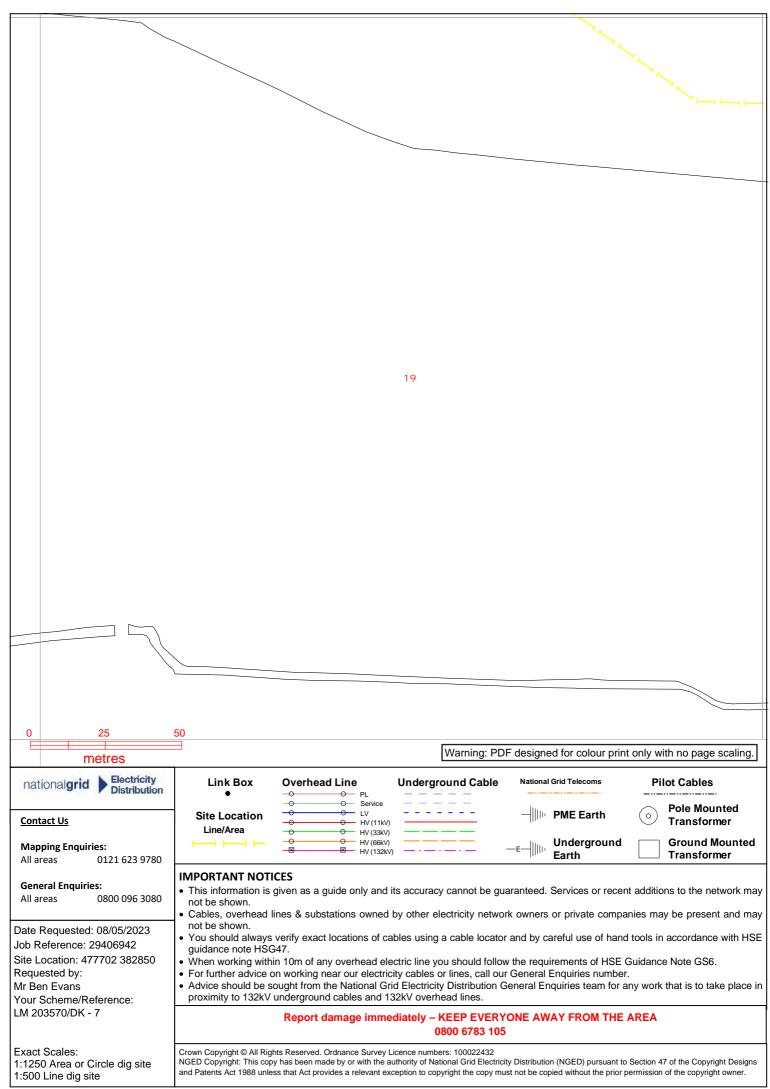


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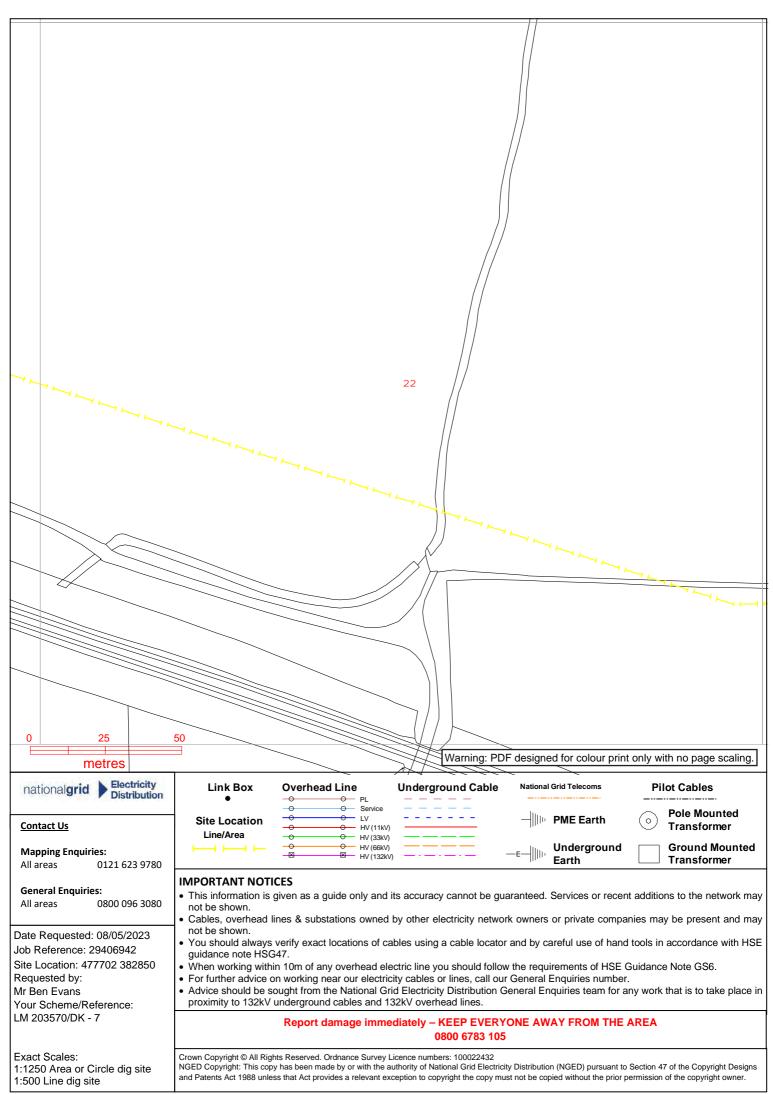
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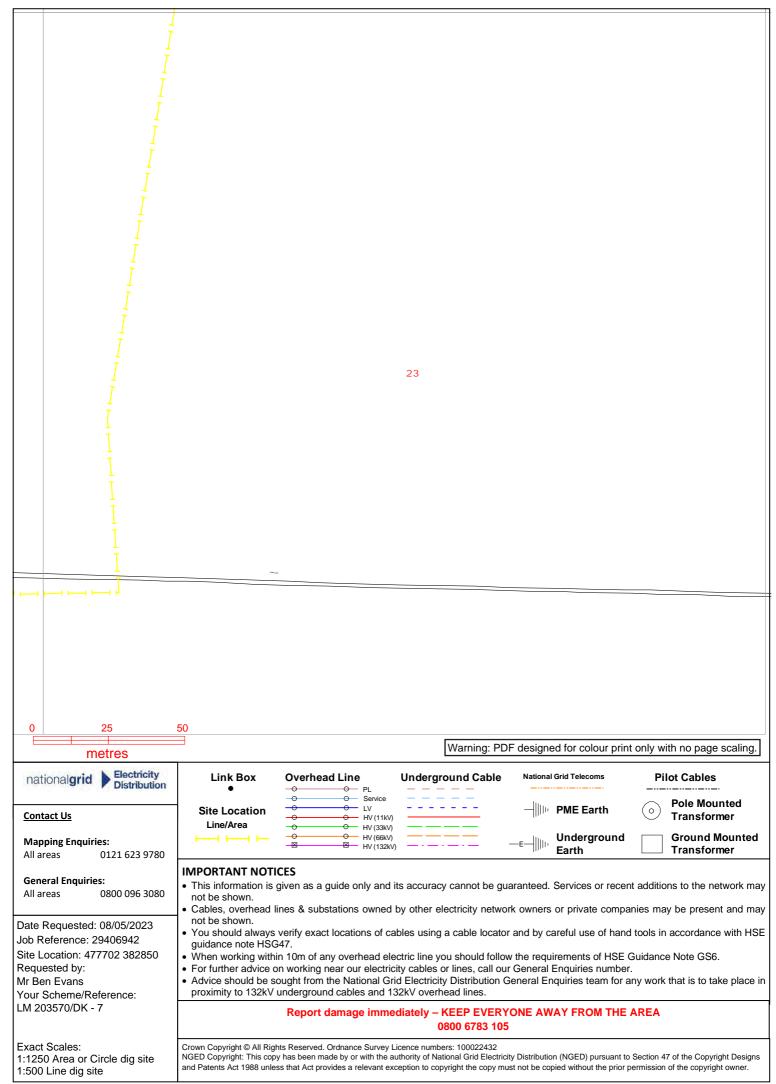




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Our Ref: 29406944 Your Ref: LM 203570/DK - 8

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West Almondsbury Bristol BS32 4RZ

Dear Ben Evans

Thank you for your enquiry dated Monday, 08 May 2023

I now enclose a copy of our plan showing existing National Grid Electricity Distribution (NGED) Electricity / National Grid Telecoms (NGT) apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all NGED equipment on site should be assumed to be LIVE until NGED prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either NGED Electrical apparatus or NGT Telecoms apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

# Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015. Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. NGT Telecoms ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Where diversions to NGED apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Following consultation the local NGED team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

This information is given as a guide only and its accuracy cannot be guaranteed. This plan is based on data from our Geographic Information System, which is updated every 24 hours to reflect changes to our network. The information contained in this plan reflects the most recent network GIS data, however changes to the network (including network additions and new service

# National Grid Electricity Distribution Mapping Centre Toll End Road Tipton West Midlands United Kingdom DY4 0HH www.nationalgrid.co.uk

Map Response T 0121 623 9780 NGED.MapResponse @nationalgrid.co.uk

National Grid Electrricity Distribution South West - 02366894 South Wales - 02366985 East Midlands - 02366923 West Midlands - 03600574

Registered in England and Wales

Registered Office: Avonbank Feeder Road Bristol BS2 0TB

https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice





connections) may not be shown. You are advised to obtain an up to date plan on the date of commencing on-site works.

Yours sincerely NGED Map Response Team

**Contact Us** 

**Emergency or Power Supply issues** In an emergency call 105, 24 hours a day.

# **Mapping Enquiries**

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone0121 623 9780EmailNGED.MapResponse@nationalgrid.co.uk

## **General Enquiries**

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

# LSBUD

If you have an enquiry relating to the use of the LSBUD website please contact LSBUD using the following information:

Telephone 0345 437 7365 Email enquiries@LSBUD.co.uk Website www.LSBUD.co.uk



# Steps to help keep you safe

• If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within

10 meters of an overhead electricity line you should call the relevant General Enquiries for free safety advice.

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity. https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice

• **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.

• **Look for signs of service cables -** an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.

• **Non NGED Network** - electricity cables, lines and equipment owned by others may also be present in addition to NGED network. They are unlikely to be shown on our plans.

• **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.

• **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.

• **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.

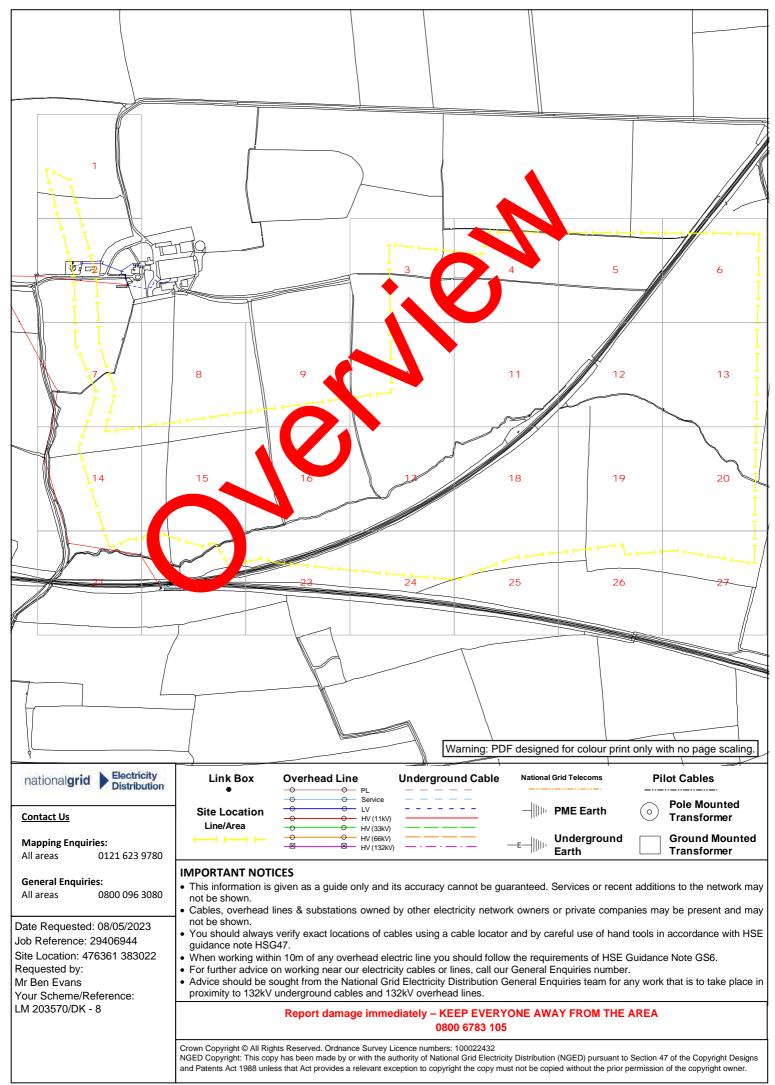
• If you are working within 10 meters of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

• If you are erecting a structure that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then you must inform us. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.

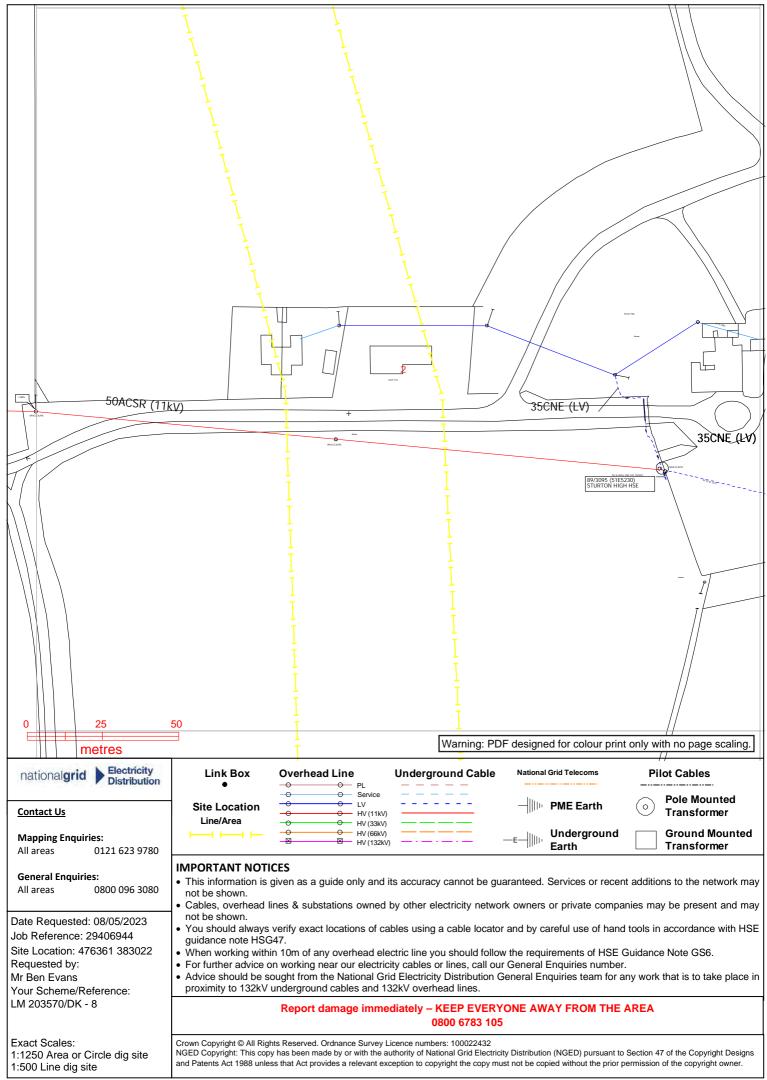
• **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.

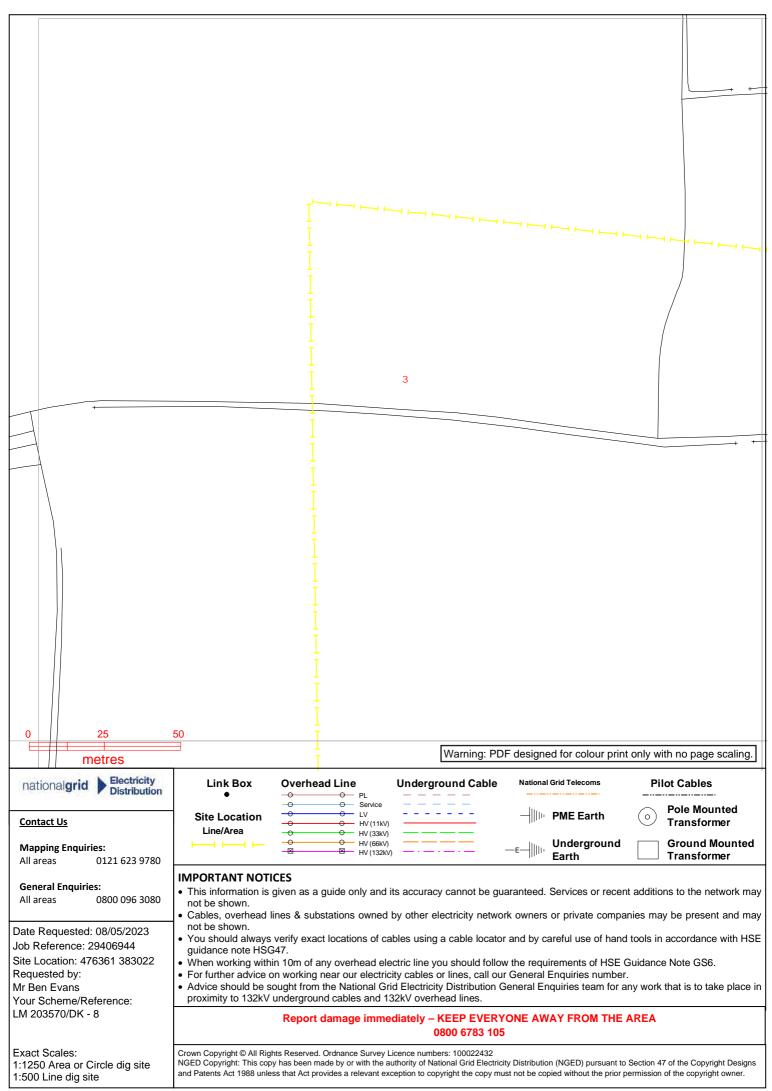
• It is possible that cables or pipes may be embedded in concrete - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

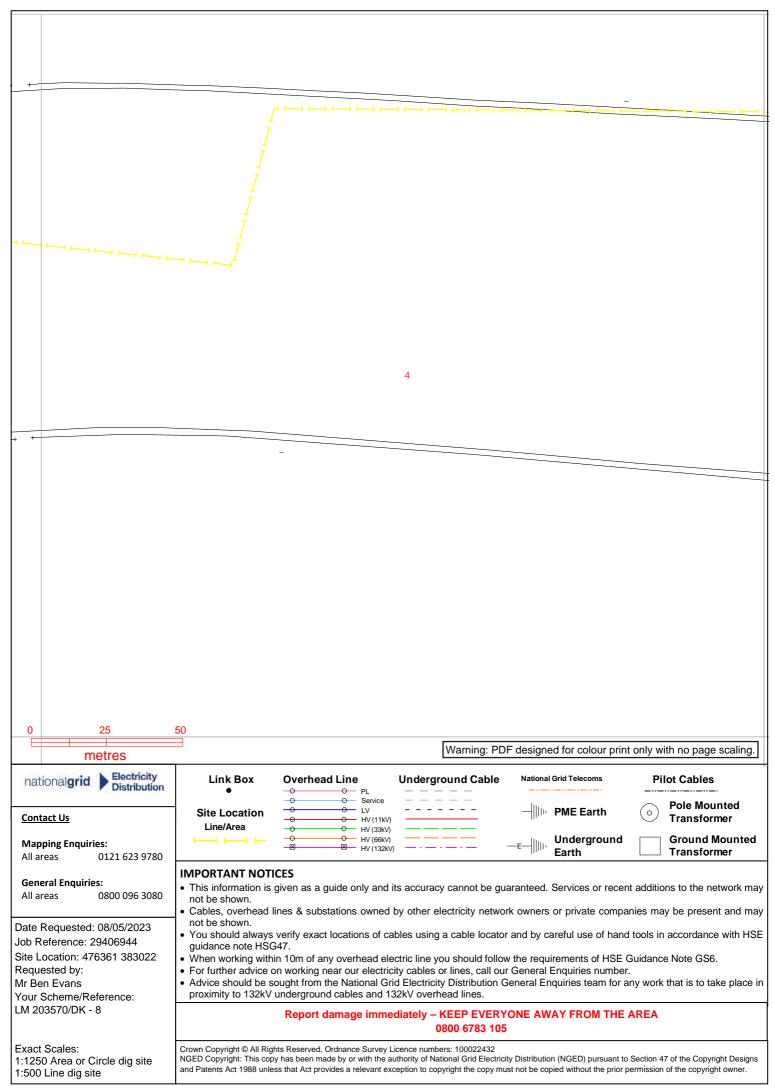
• **Cables are sometimes covered by tiles or a marker tape** - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

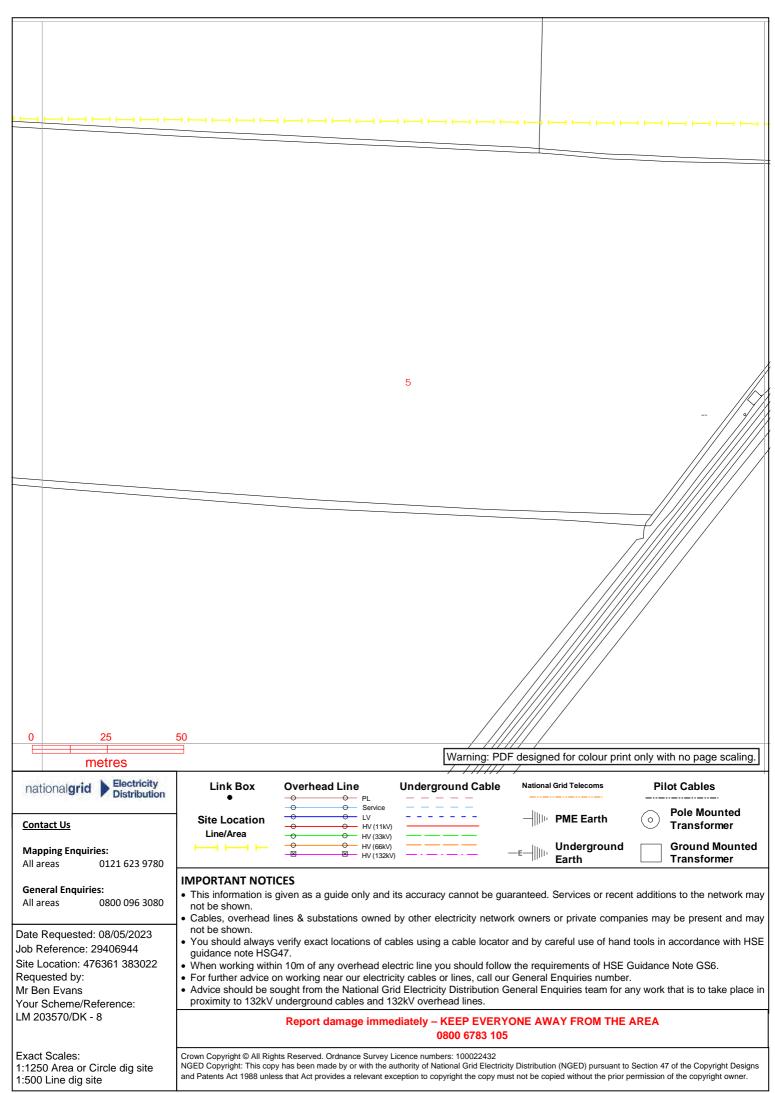


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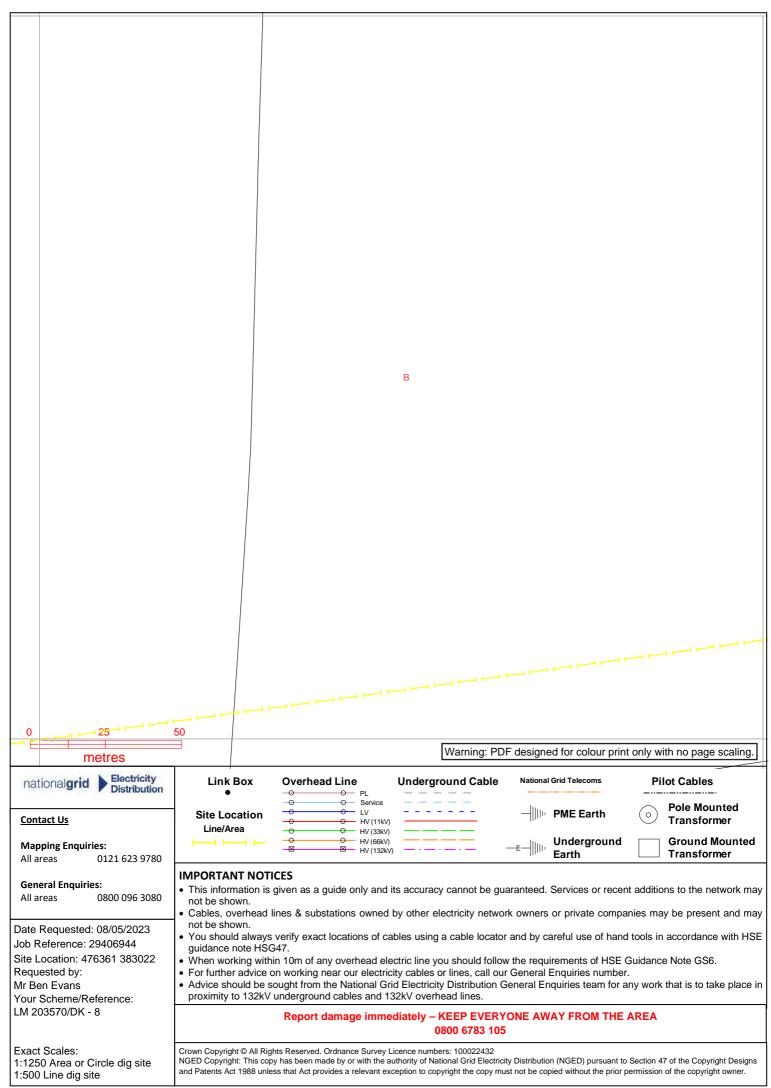


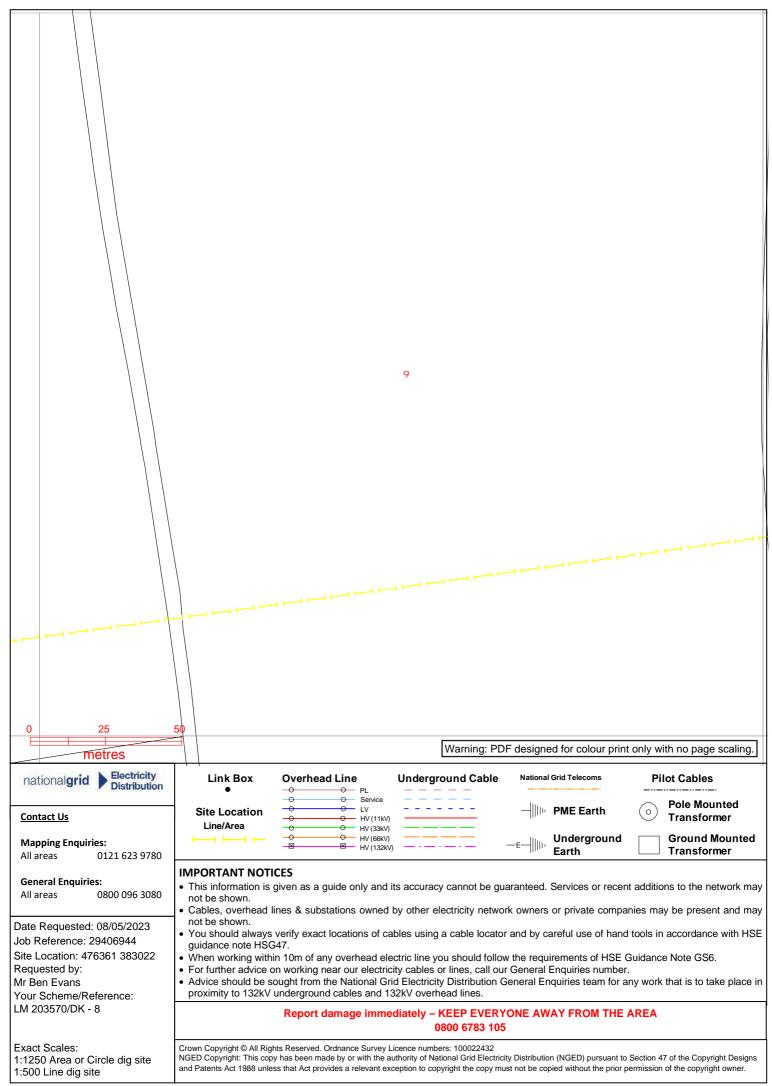


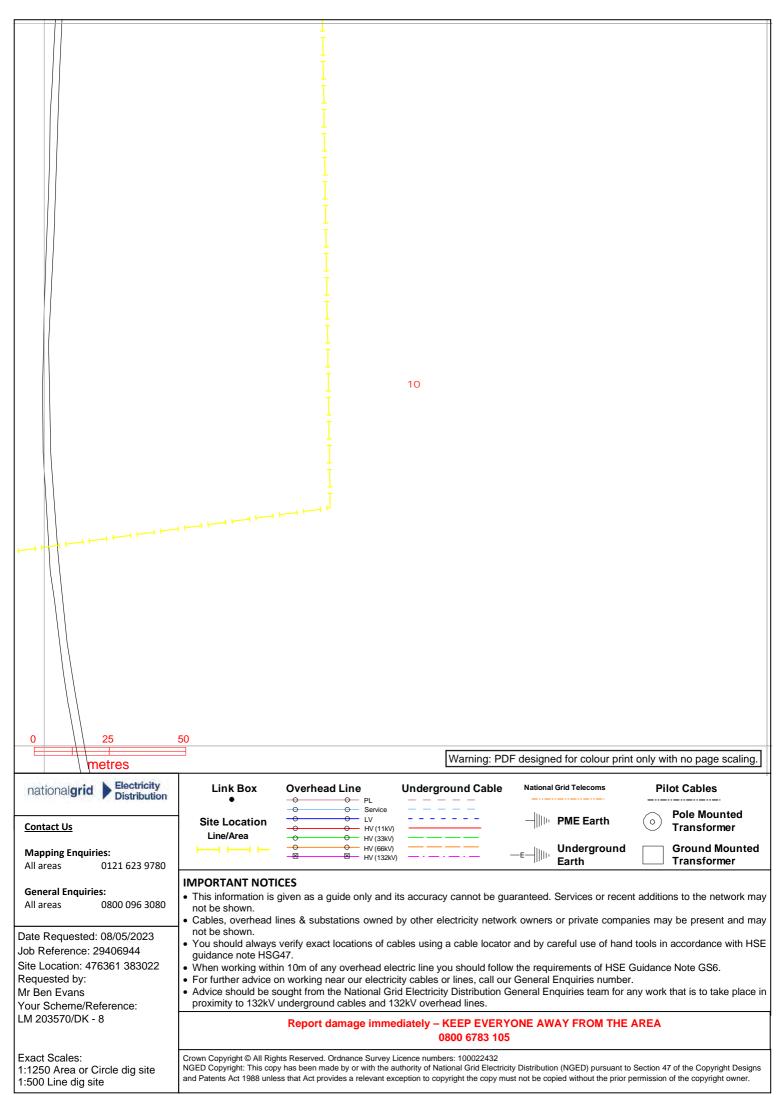


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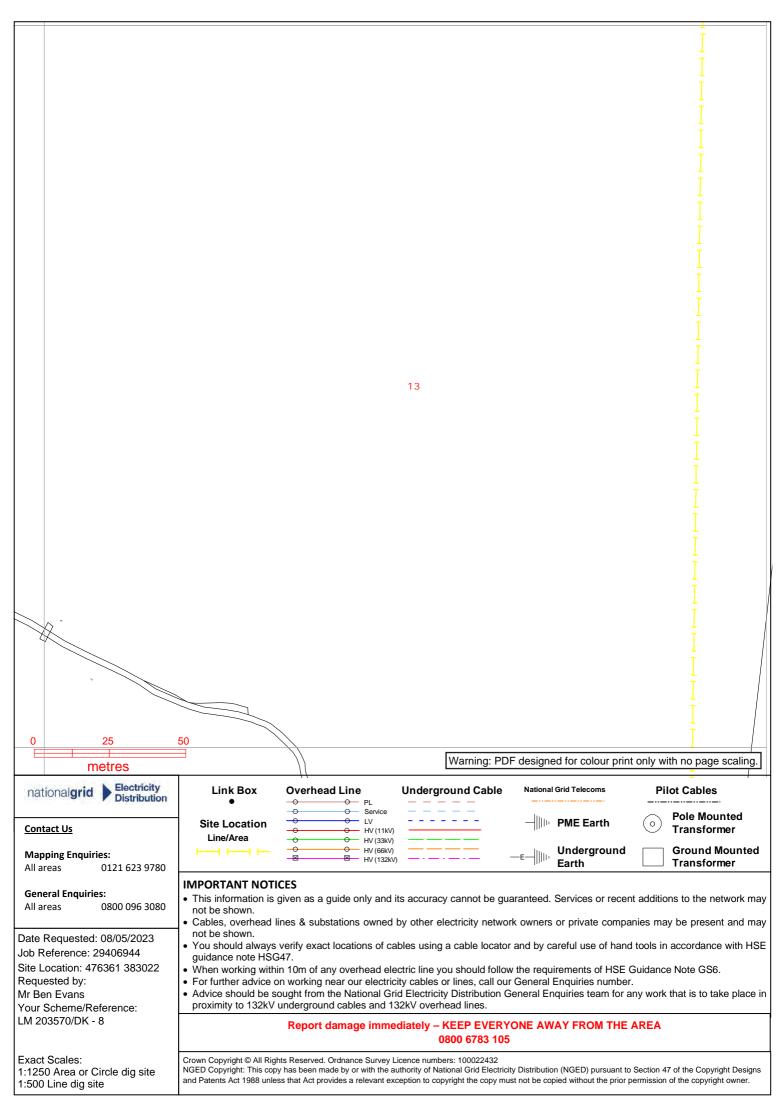






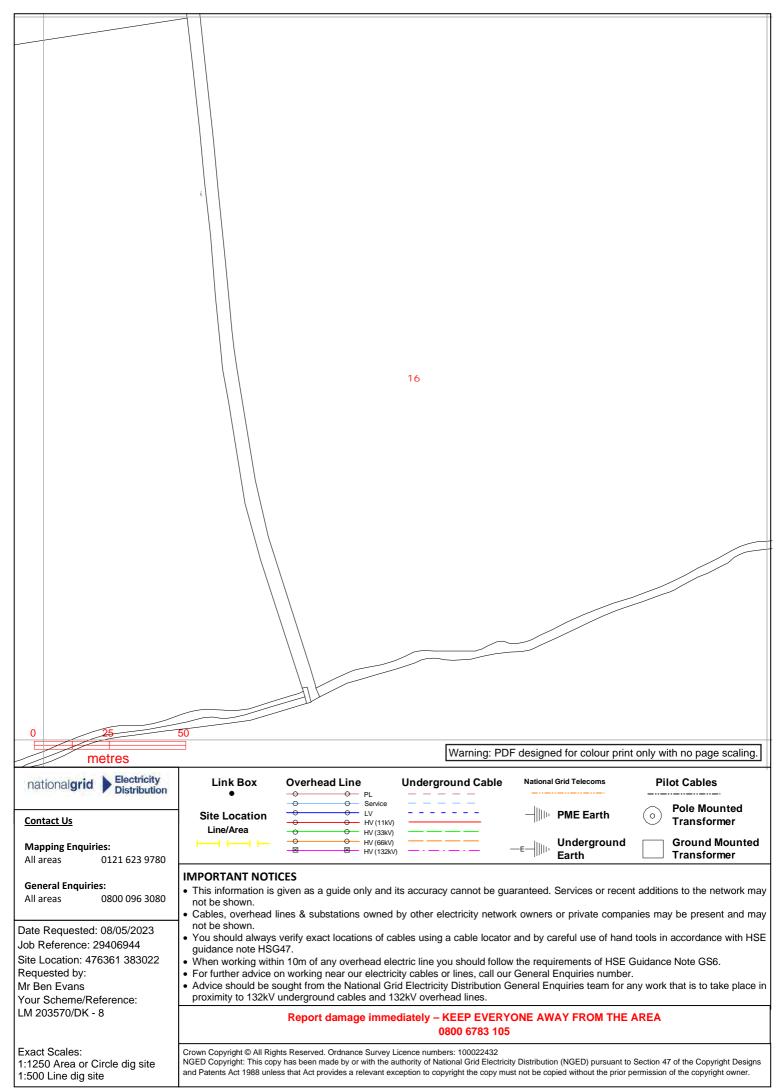
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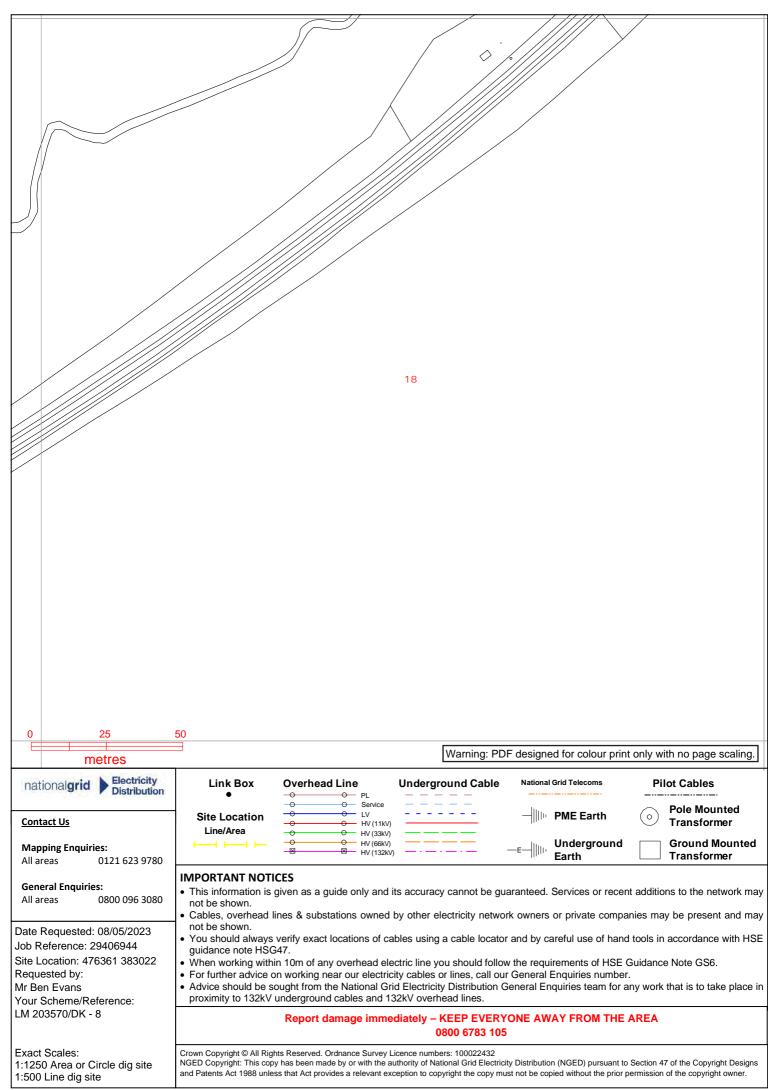


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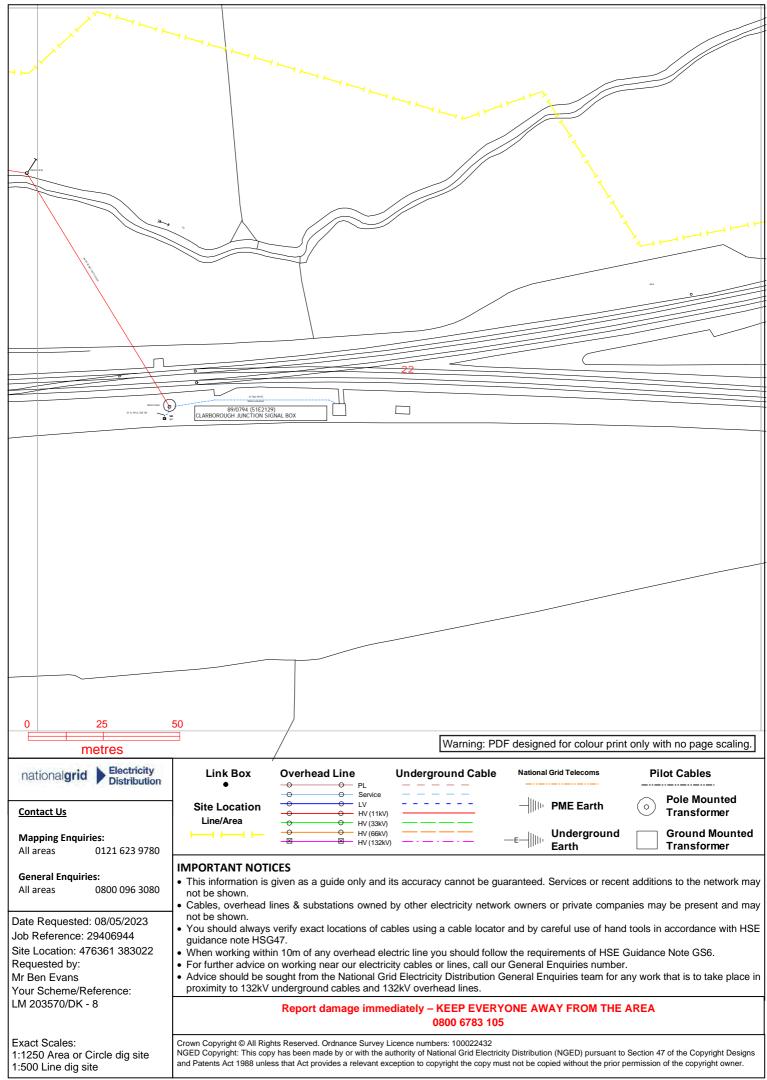
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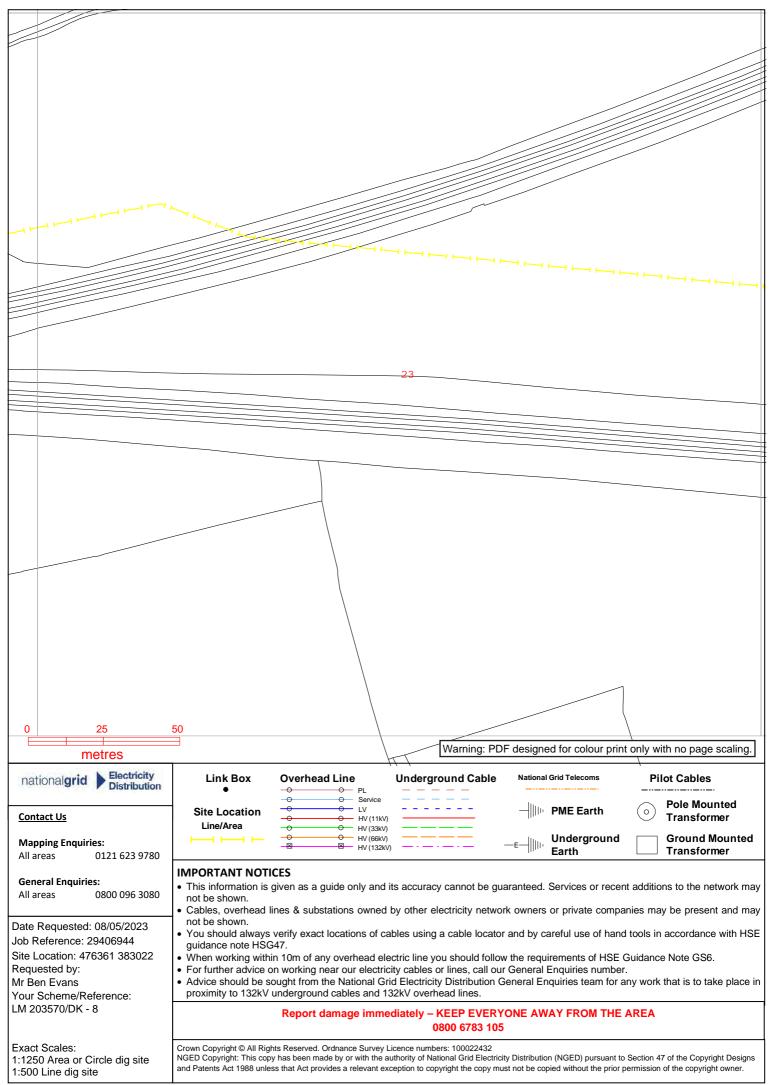


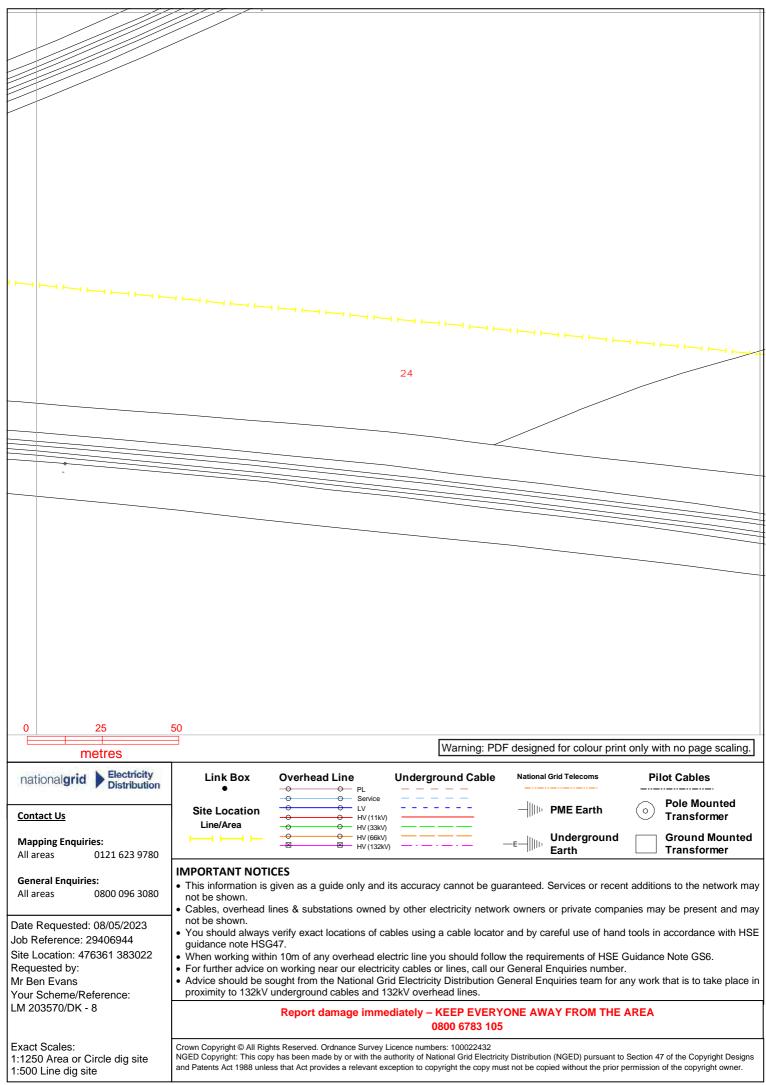
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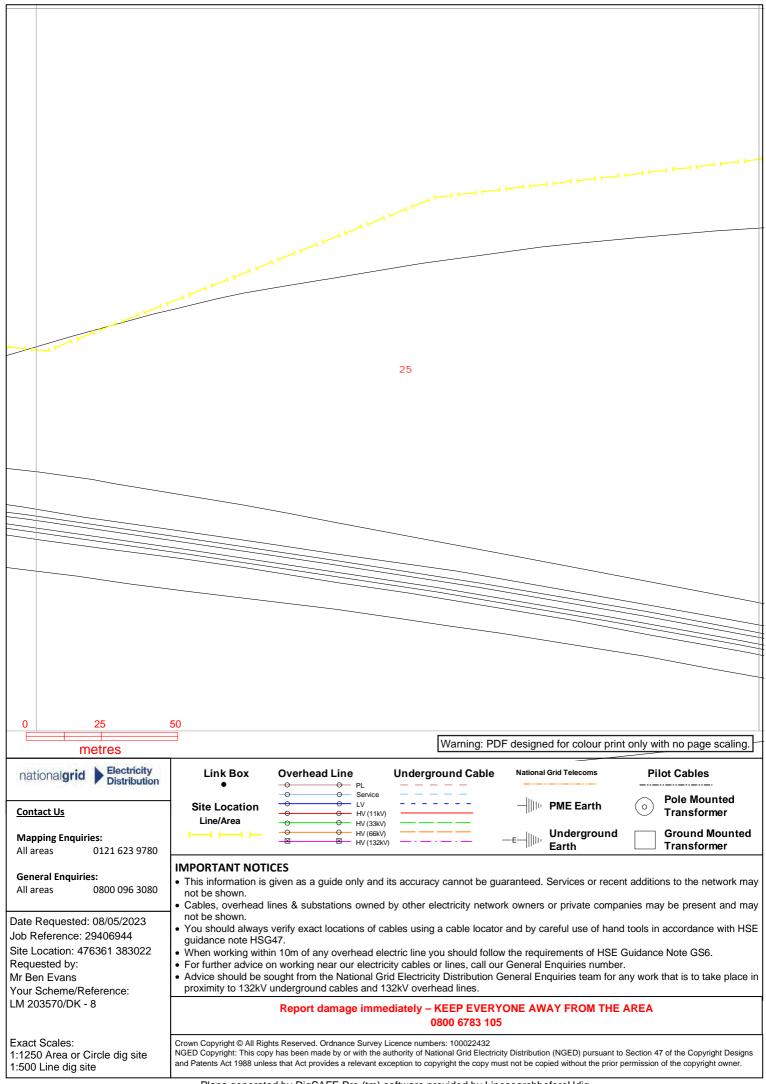
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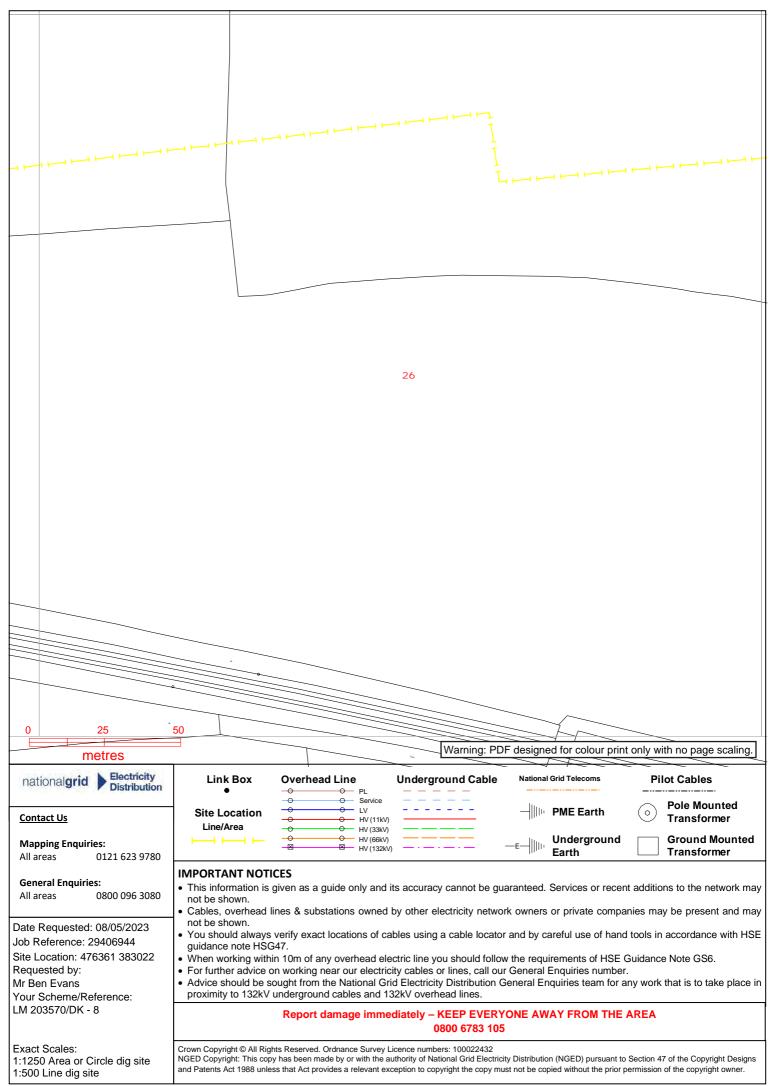
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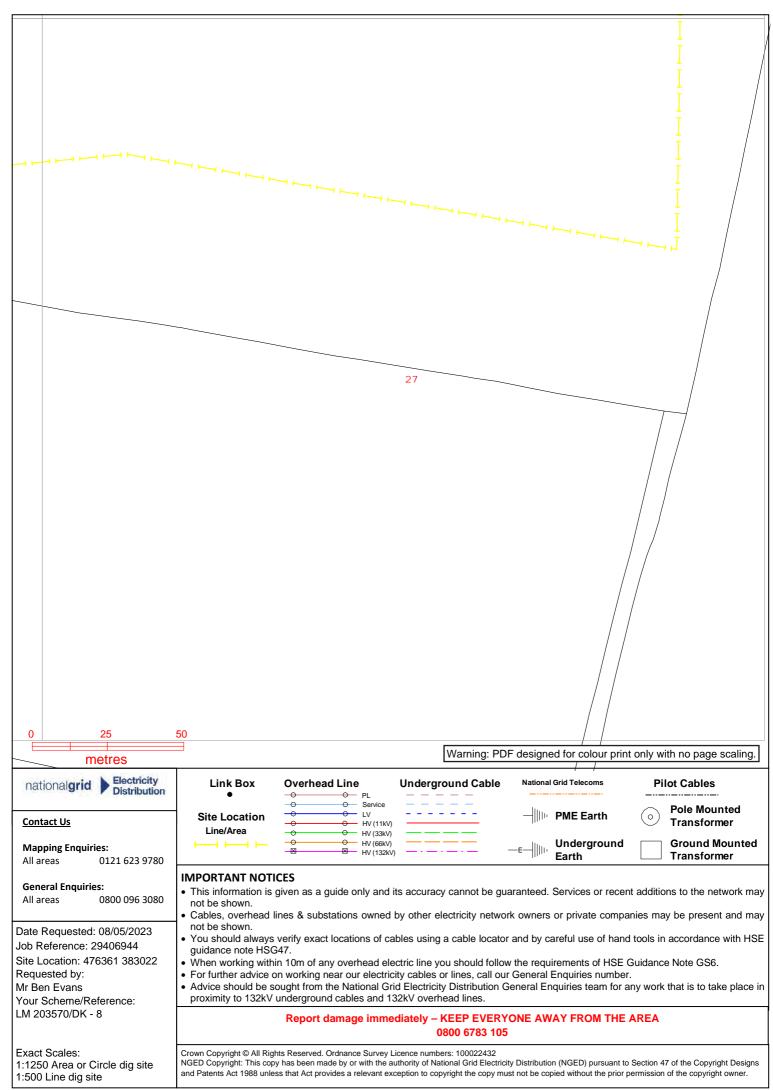
















Our Ref: 29406946 Your Ref: LM 203570/DK - 9

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West Almondsbury Bristol BS32 4RZ

Dear Ben Evans

Thank you for your enquiry dated Monday, 08 May 2023

I now enclose a copy of our plan showing existing National Grid Electricity Distribution (NGED) Electricity / National Grid Telecoms (NGT) apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all NGED equipment on site should be assumed to be LIVE until NGED prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either NGED Electrical apparatus or NGT Telecoms apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

# Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015. Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. NGT Telecoms ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Where diversions to NGED apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Following consultation the local NGED team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

This information is given as a guide only and its accuracy cannot be guaranteed. This plan is based on data from our Geographic Information System, which is updated every 24 hours to reflect changes to our network. The information contained in this plan reflects the most recent network GIS data, however changes to the network (including network additions and new service

# National Grid Electricity Distribution Mapping Centre Toll End Road Tipton West Midlands United Kingdom DY4 0HH www.nationalgrid.co.uk

Map Response T 0121 623 9780 NGED.MapResponse @nationalgrid.co.uk

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Registered in England and Wales

Registered Office: Avonbank Feeder Road Bristol BS2 0TB

https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice





connections) may not be shown. You are advised to obtain an up to date plan on the date of commencing on-site works.

Yours sincerely NGED Map Response Team

**Contact Us** 

**Emergency or Power Supply issues** In an emergency call 105, 24 hours a day.

# **Mapping Enquiries**

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone0121 623 9780EmailNGED.MapResponse@nationalgrid.co.uk

## **General Enquiries**

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

# LSBUD

If you have an enquiry relating to the use of the LSBUD website please contact LSBUD using the following information:

Telephone 0345 437 7365 Email enquiries@LSBUD.co.uk Website www.LSBUD.co.uk



# Steps to help keep you safe

• If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within

10 meters of an overhead electricity line you should call the relevant General Enquiries for free safety advice.

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity. https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice

• **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.

• **Look for signs of service cables -** an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.

• **Non NGED Network** - electricity cables, lines and equipment owned by others may also be present in addition to NGED network. They are unlikely to be shown on our plans.

• **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.

• **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.

• **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.

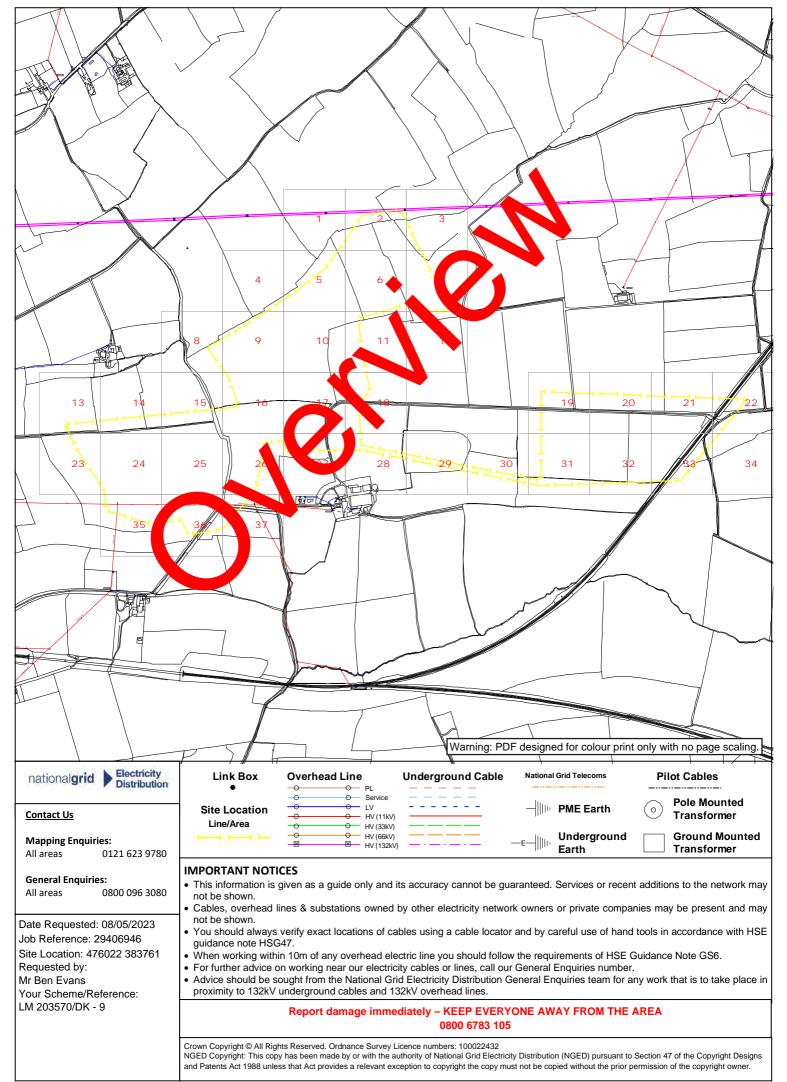
• If you are working within 10 meters of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

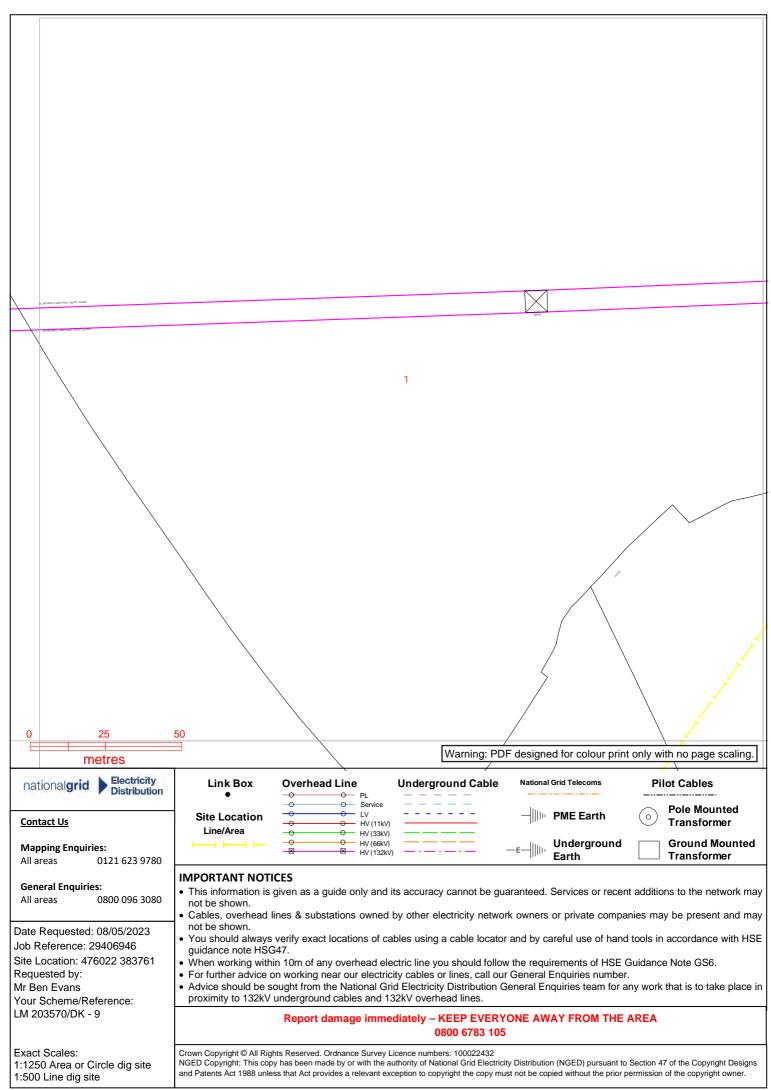
• If you are erecting a structure that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then you must inform us. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.

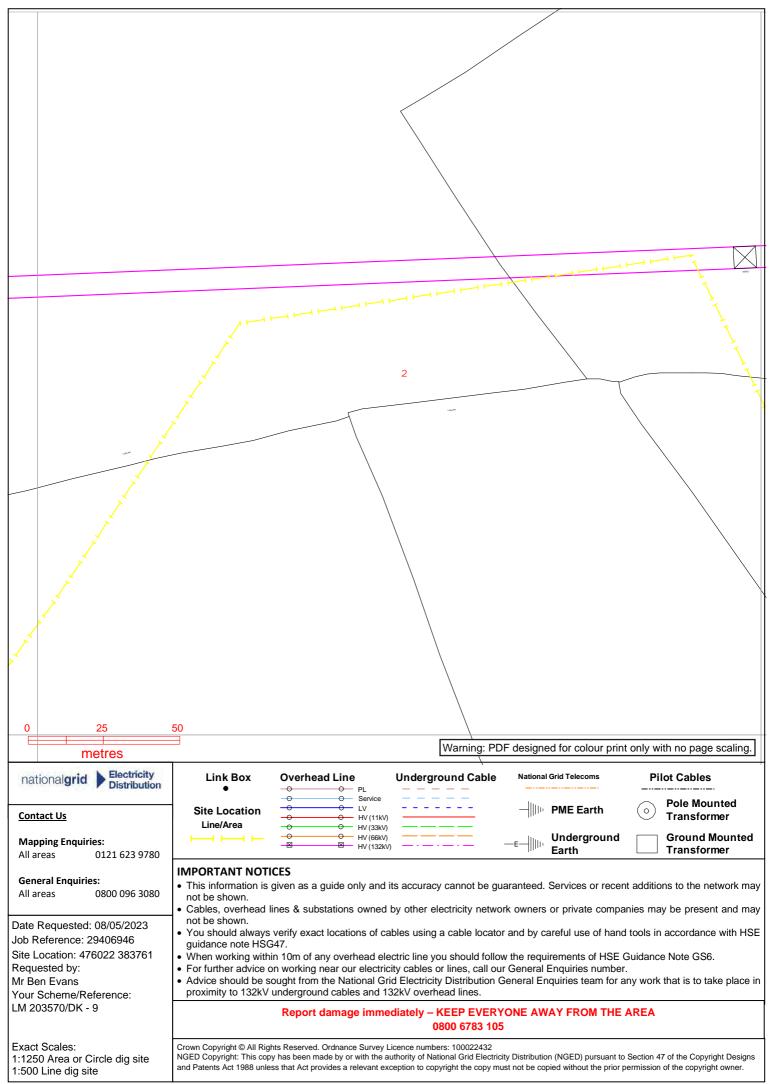
• **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.

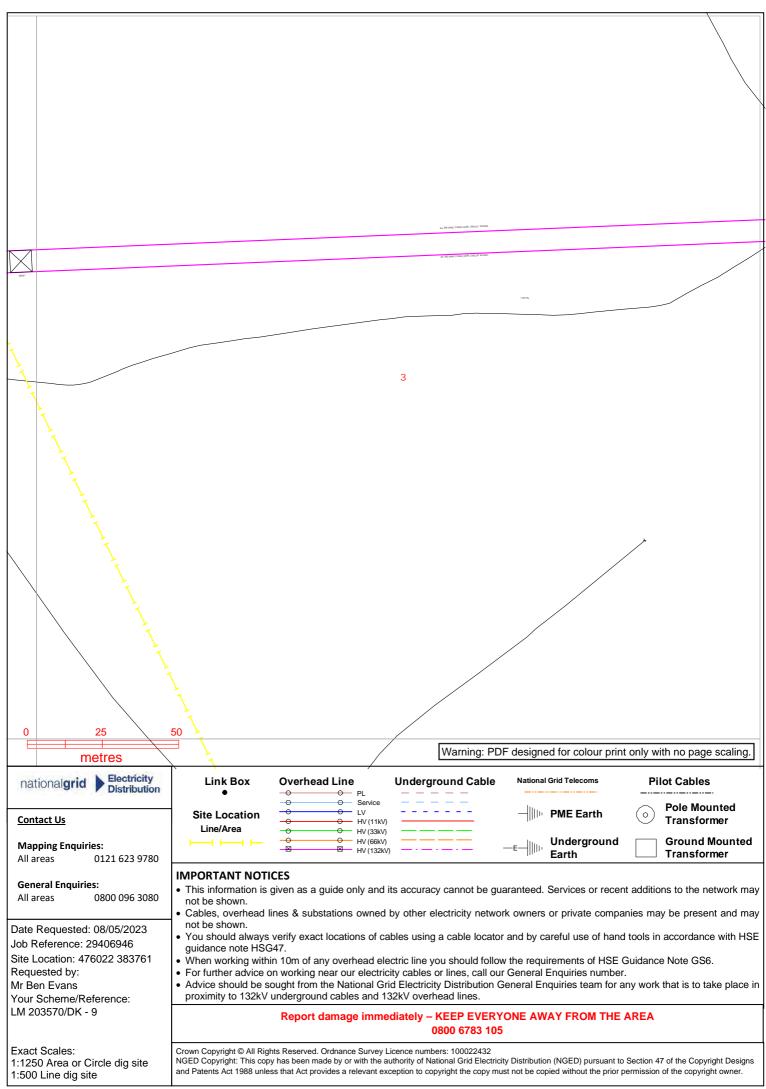
• It is possible that cables or pipes may be embedded in concrete - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

• **Cables are sometimes covered by tiles or a marker tape** - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.



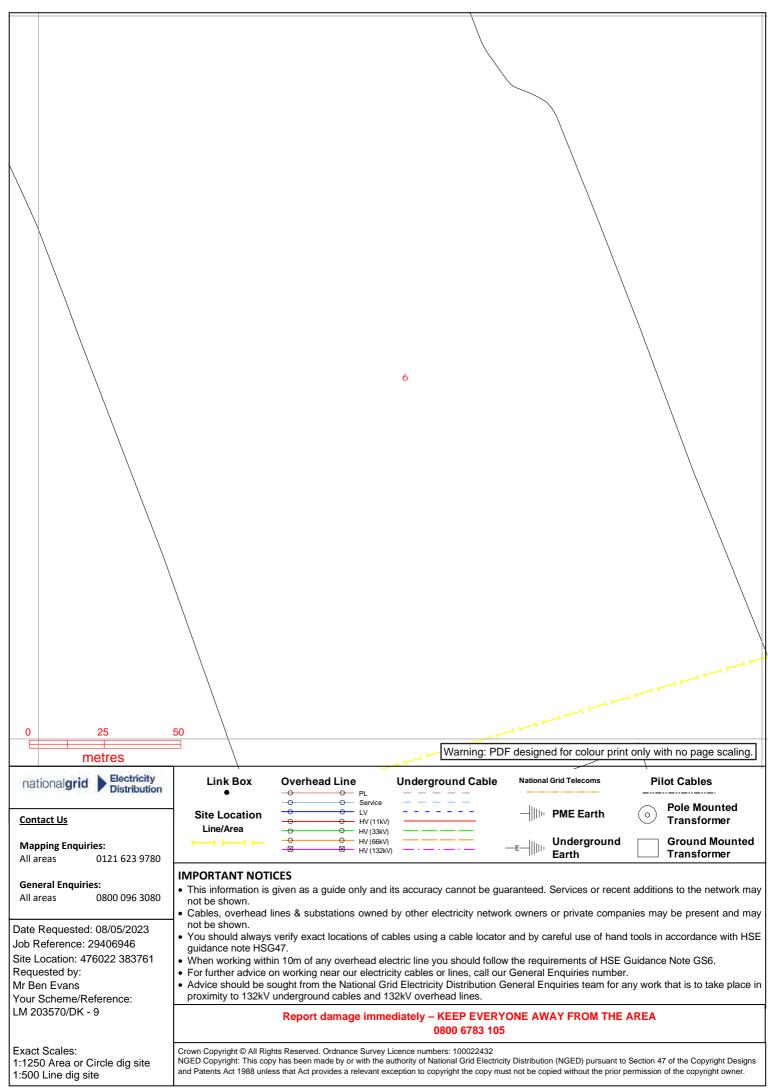




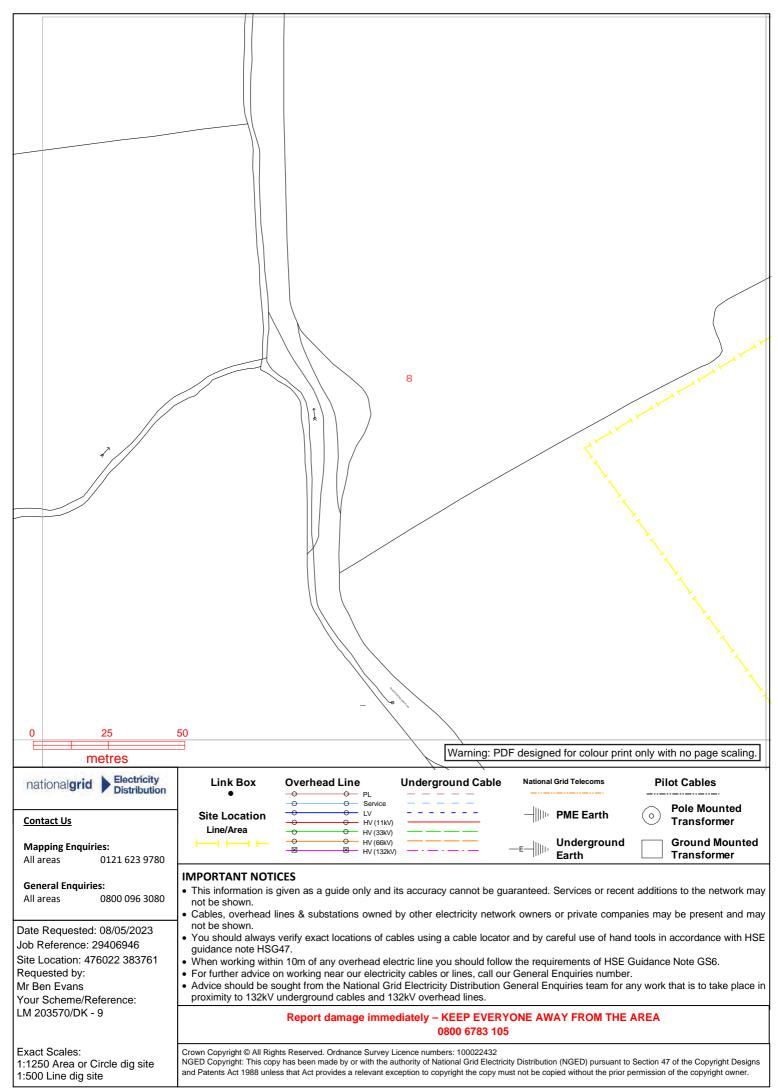


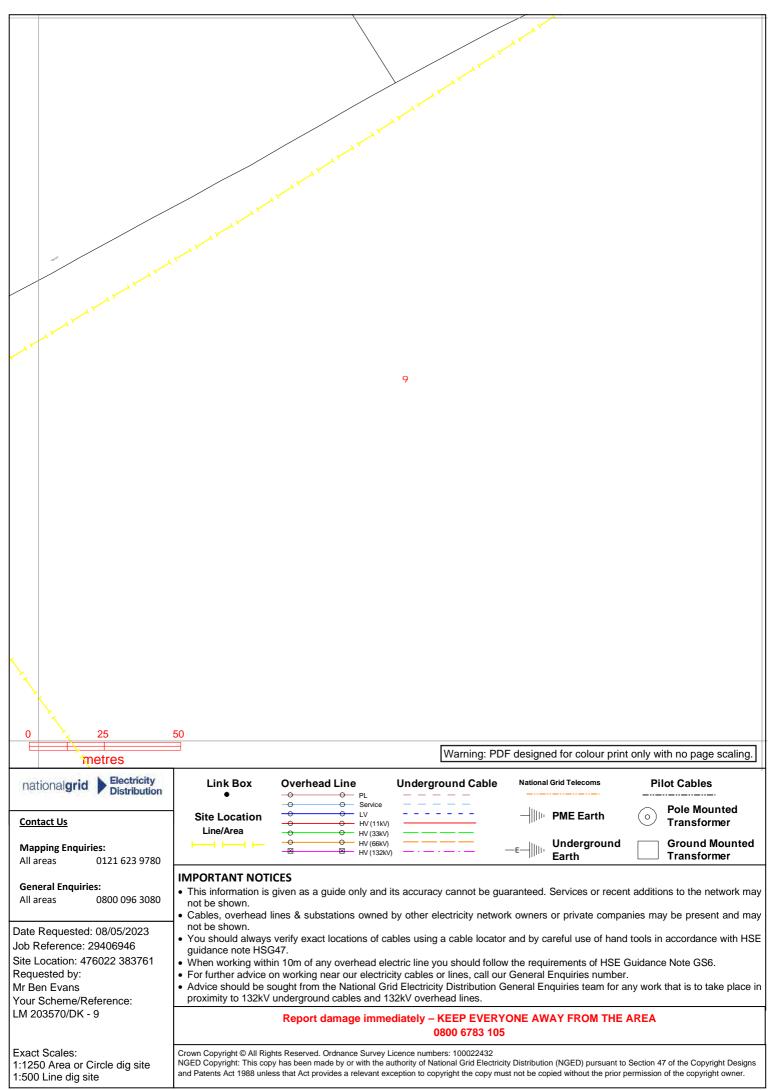
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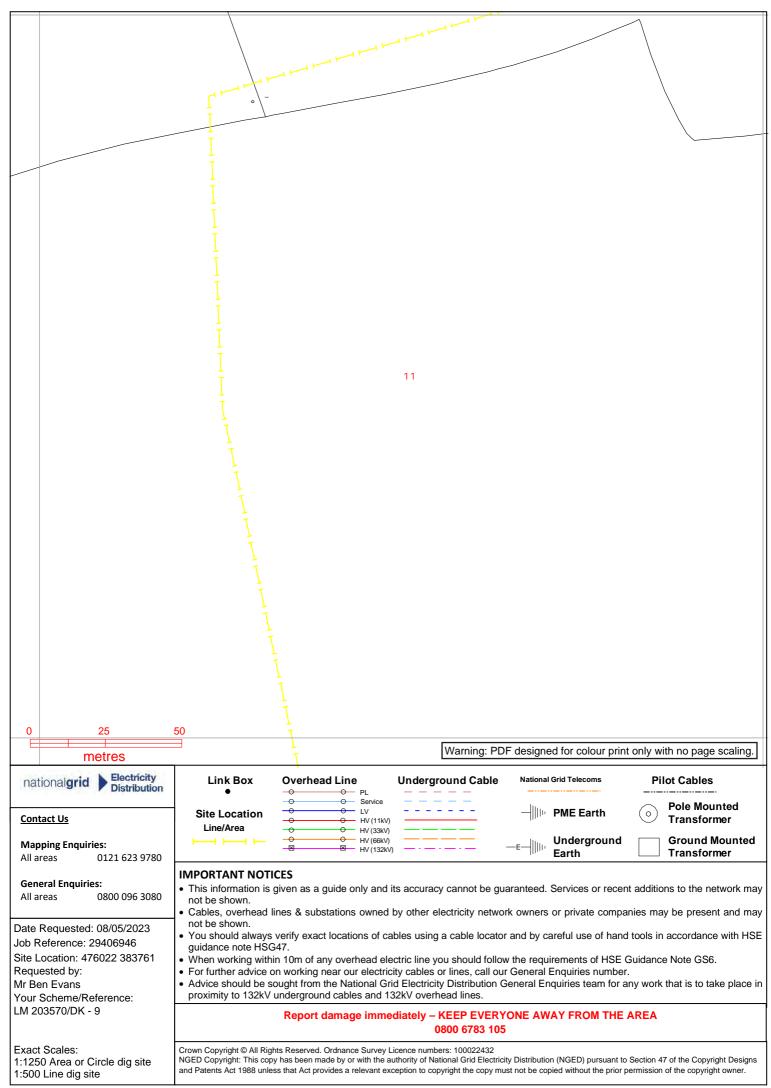


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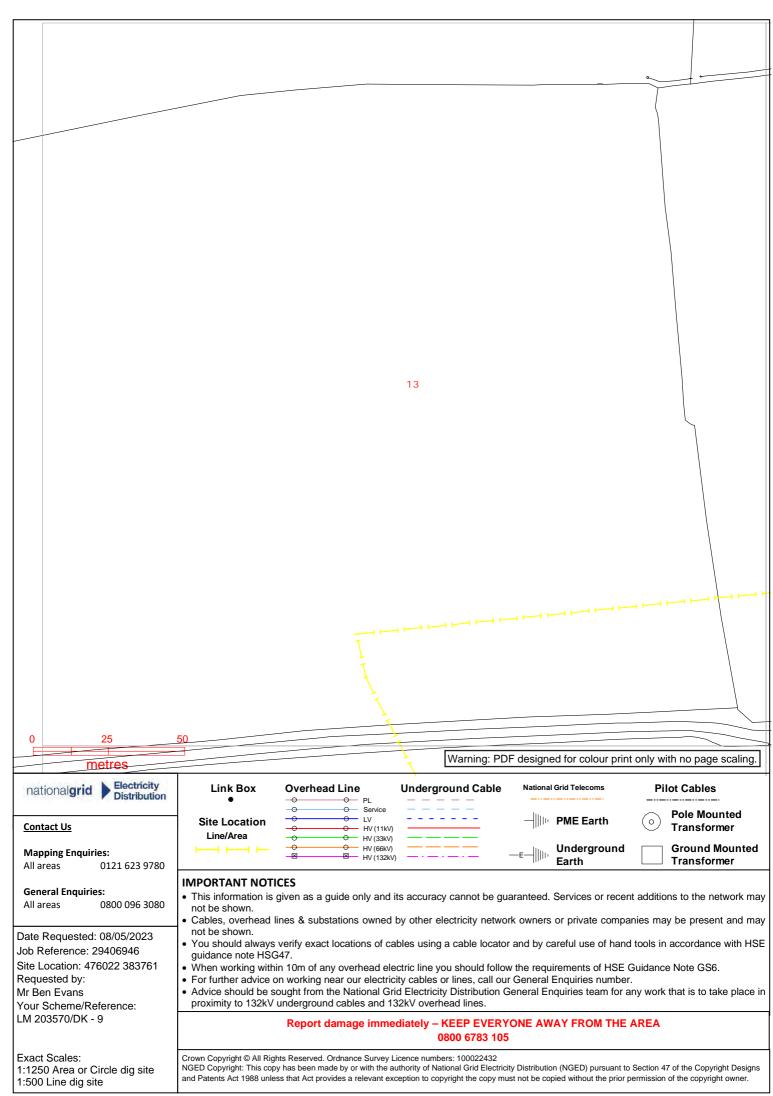


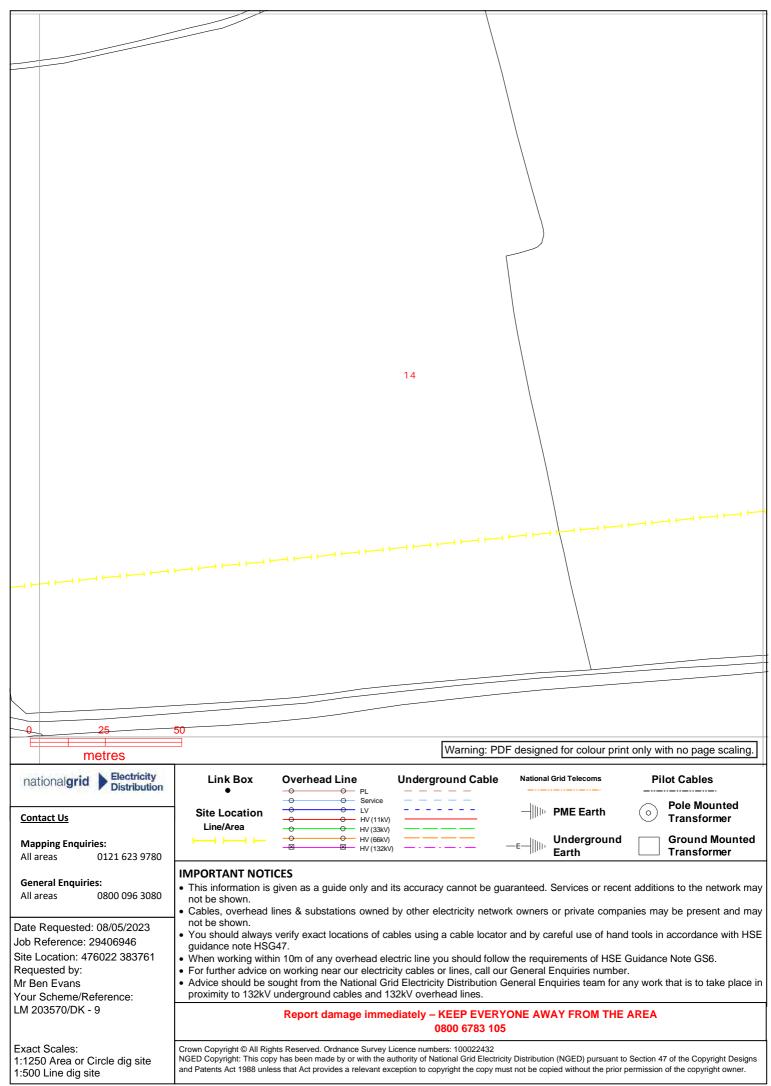


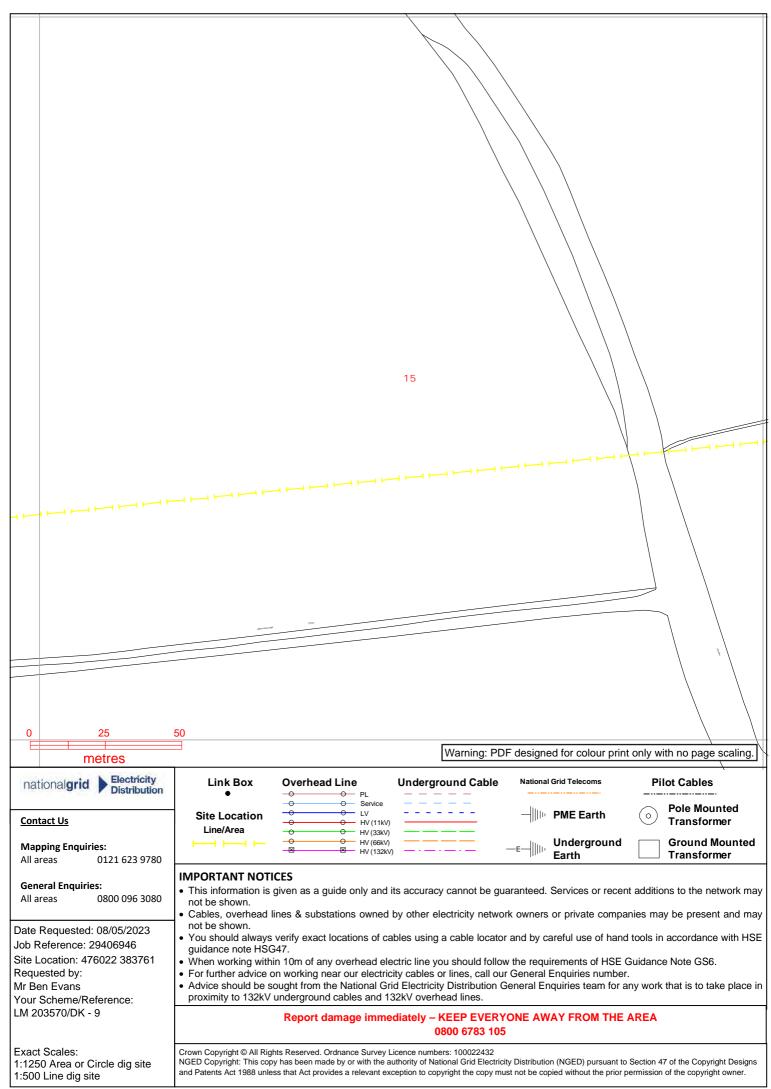
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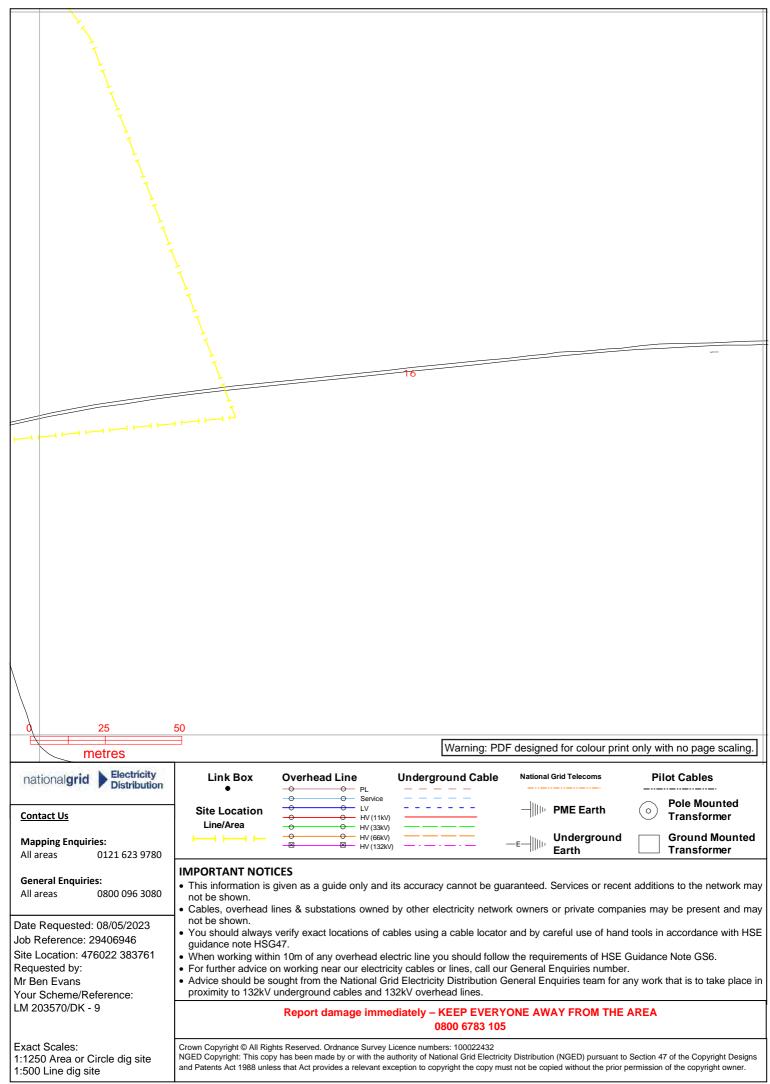


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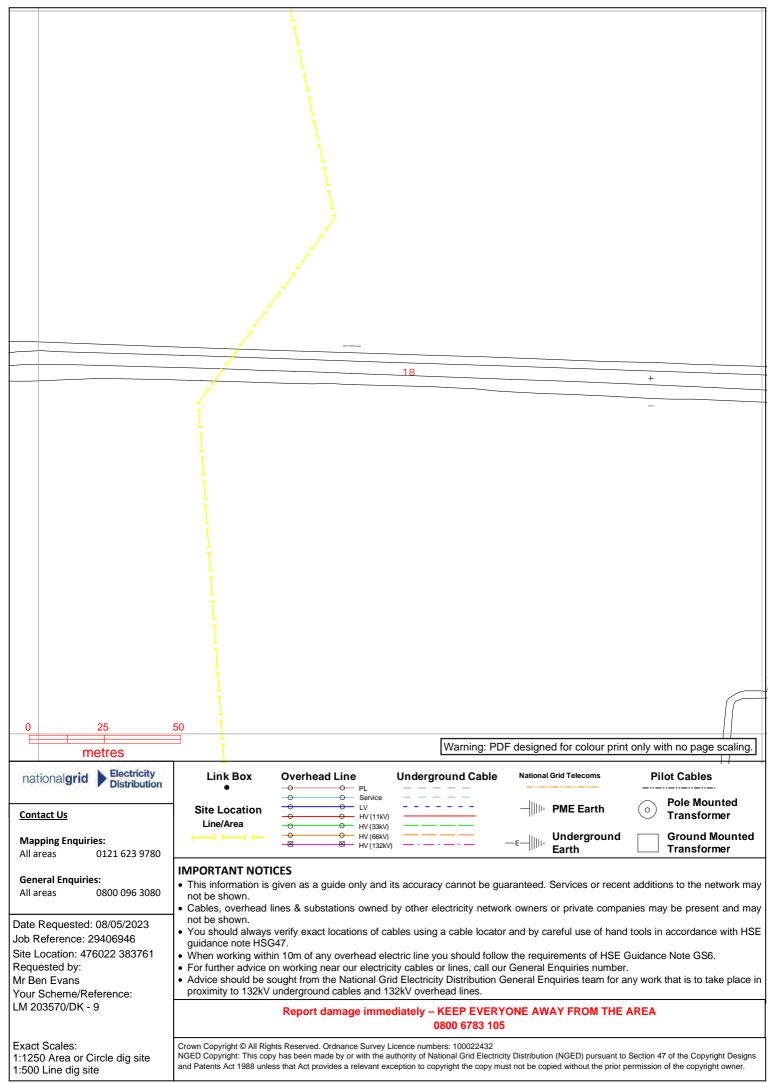








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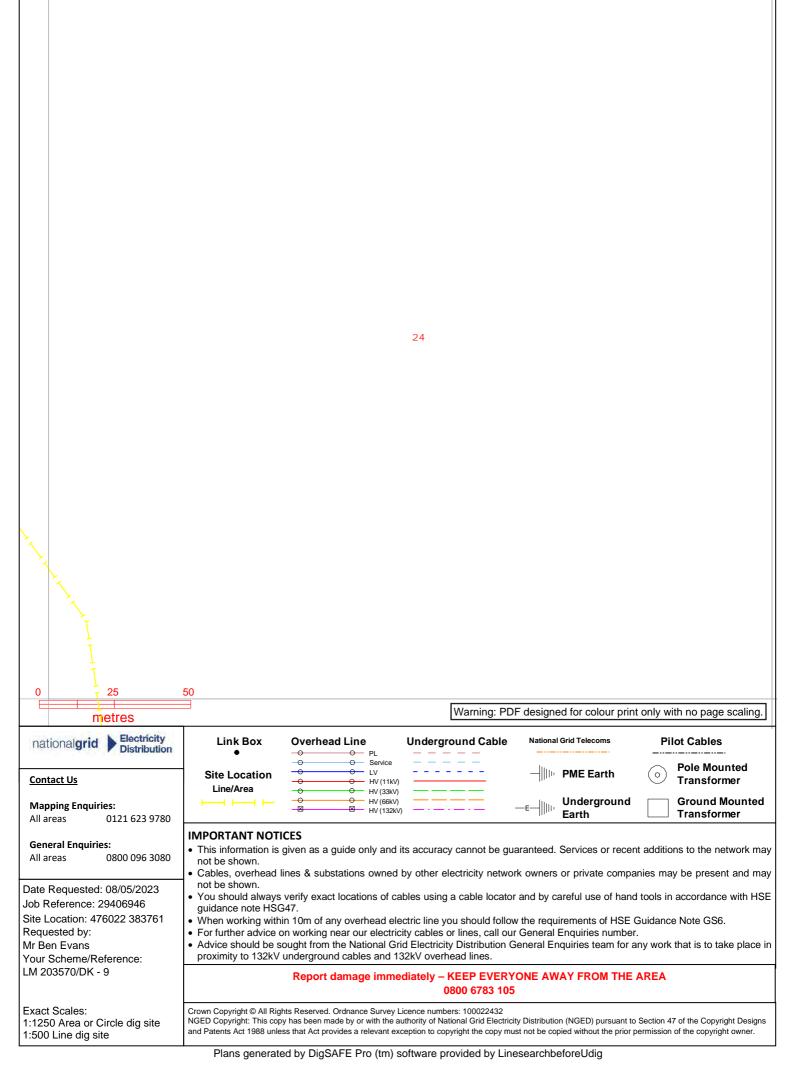
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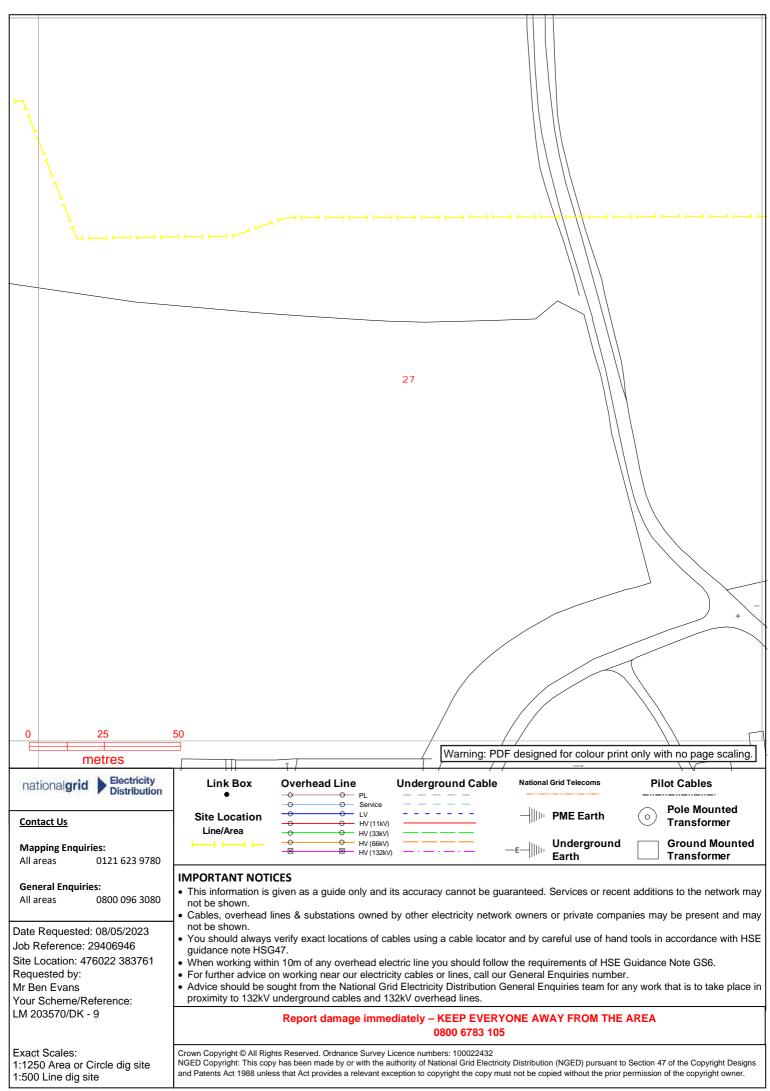
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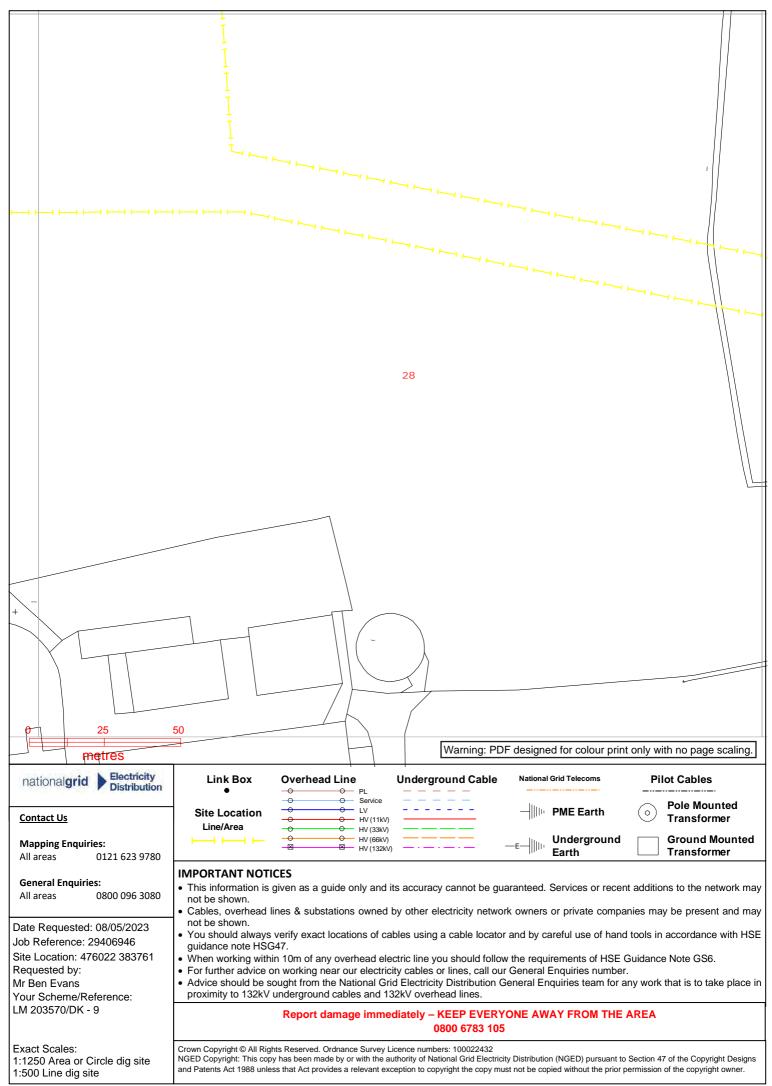
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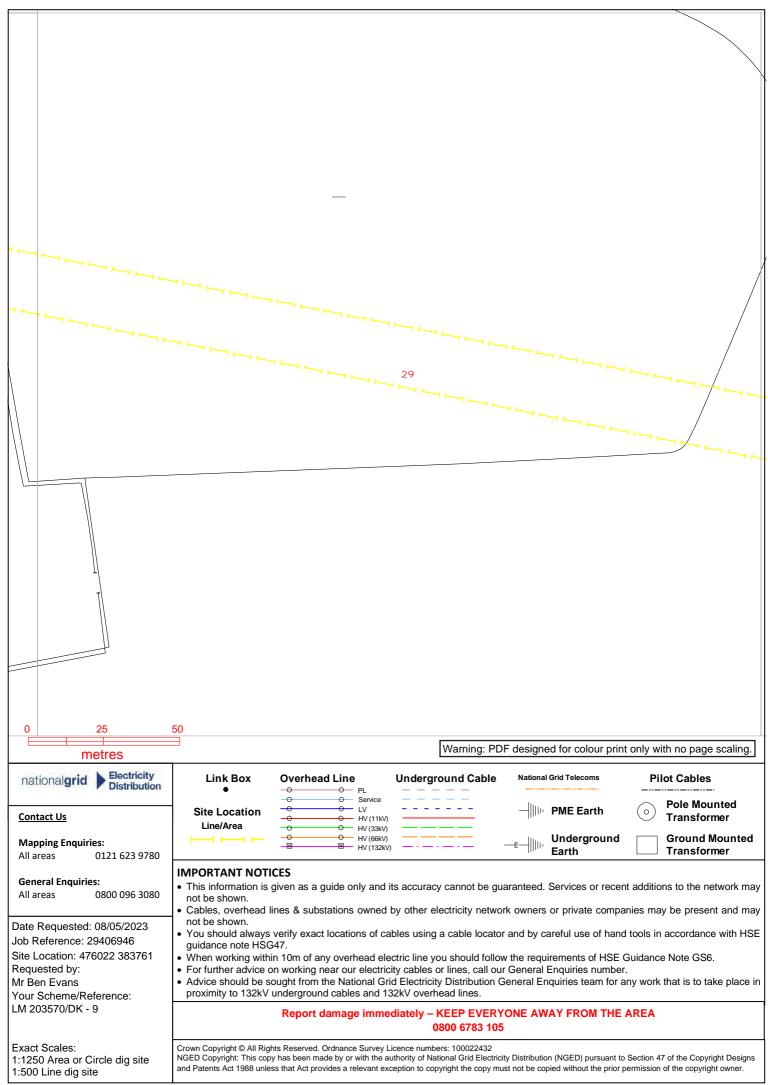


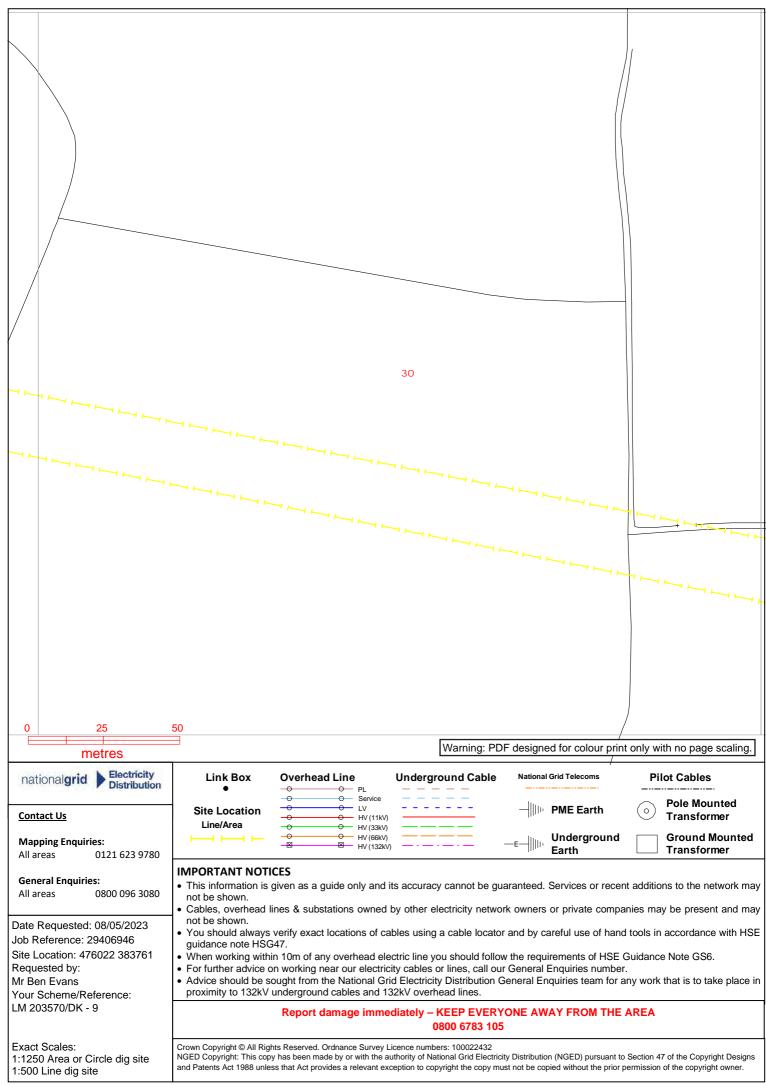
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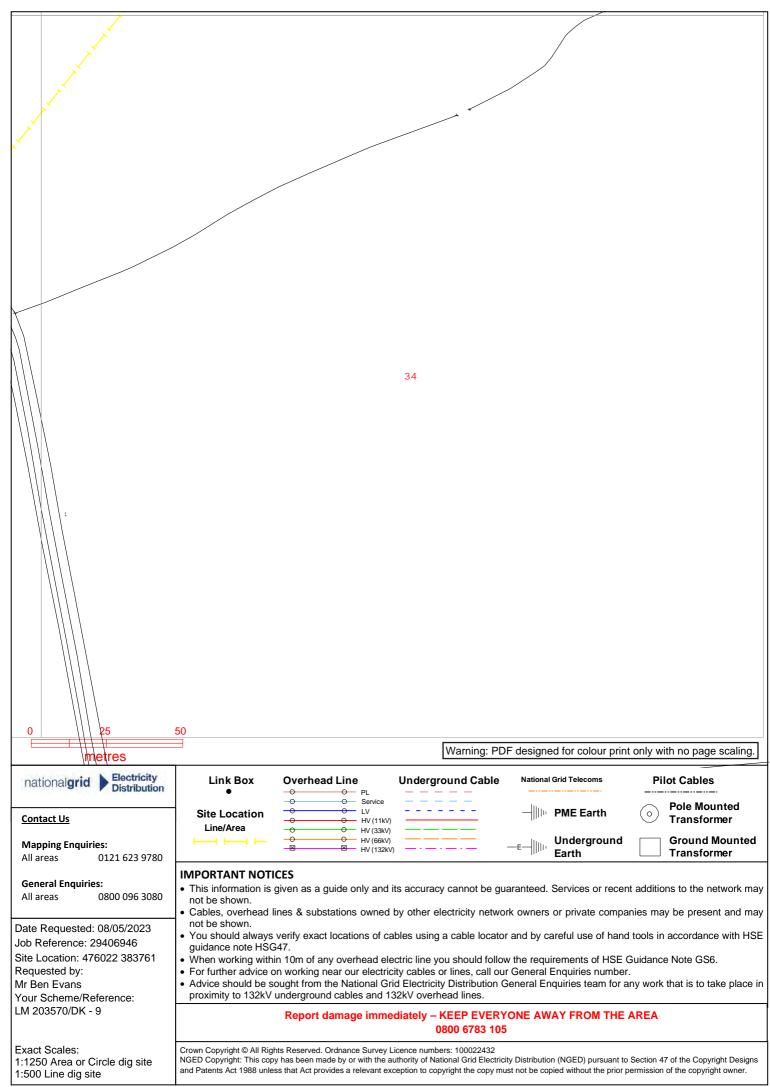


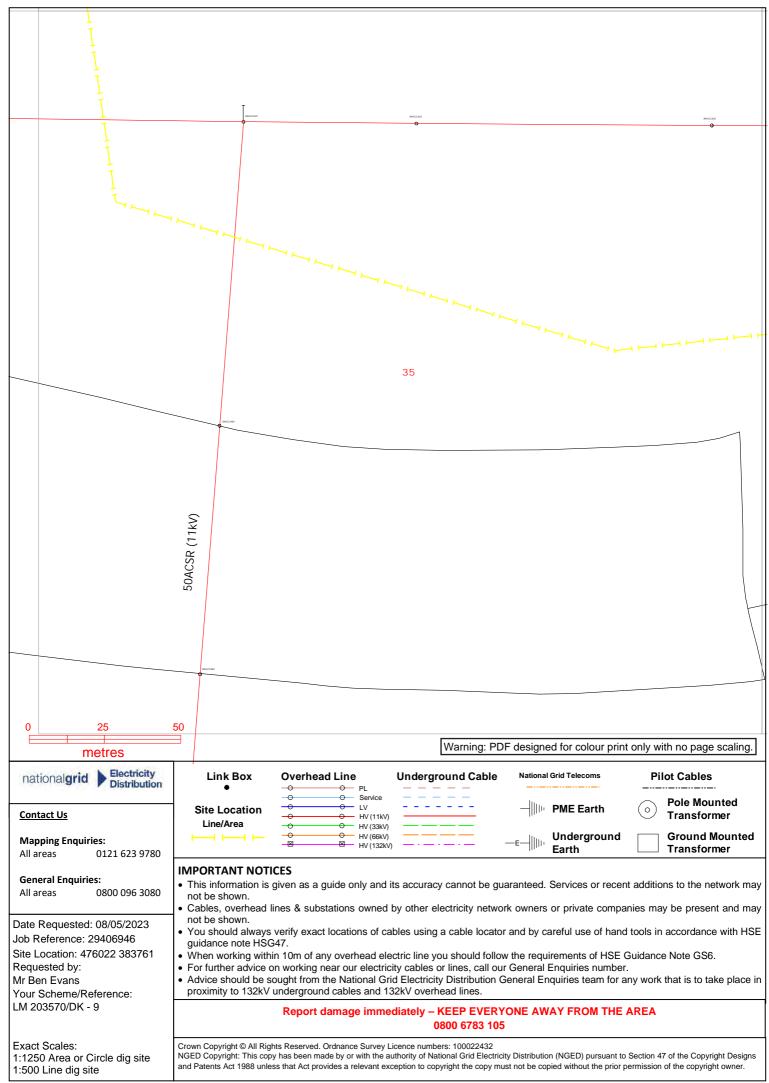


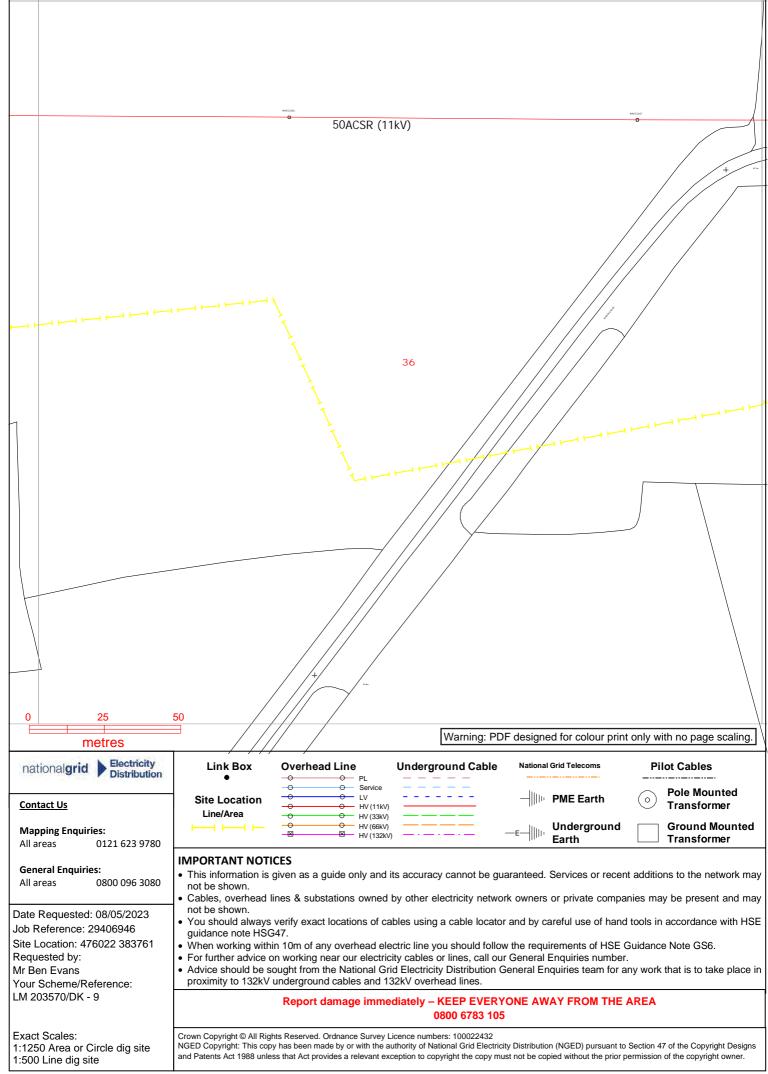
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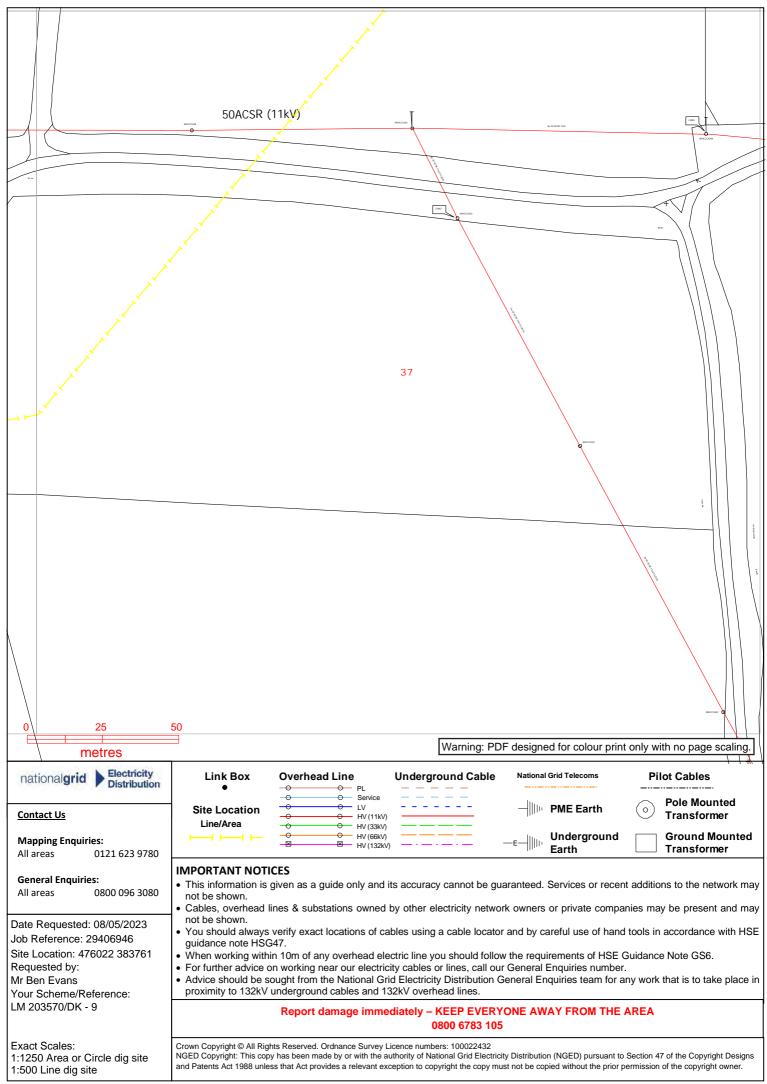
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Our Ref: 29406948 Your Ref: LM 203570/DK - 10

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West Almondsbury Bristol BS32 4RZ

Dear Ben Evans

Thank you for your enquiry dated Monday, 08 May 2023

I now enclose a copy of our plan showing existing National Grid Electricity Distribution (NGED) Electricity / National Grid Telecoms (NGT) apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all NGED equipment on site should be assumed to be LIVE until NGED prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either NGED Electrical apparatus or NGT Telecoms apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

# Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015. Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. NGT Telecoms ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Where diversions to NGED apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Following consultation the local NGED team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

This information is given as a guide only and its accuracy cannot be guaranteed. This plan is based on data from our Geographic Information System, which is updated every 24 hours to reflect changes to our network. The information contained in this plan reflects the most recent network GIS data, however changes to the network (including network additions and new service

# National Grid Electricity Distribution Mapping Centre Toll End Road Tipton West Midlands United Kingdom DY4 0HH www.nationalgrid.co.uk

Map Response T 0121 623 9780 NGED.MapResponse @nationalgrid.co.uk

National Grid Electrricity Distribution South West - 02366894 South Wales - 02366985 East Midlands - 02366923 West Midlands - 03600574

Registered in England and Wales

Registered Office: Avonbank Feeder Road Bristol BS2 0TB

https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice





connections) may not be shown. You are advised to obtain an up to date plan on the date of commencing on-site works.

Yours sincerely NGED Map Response Team

**Contact Us** 

**Emergency or Power Supply issues** In an emergency call 105, 24 hours a day.

# **Mapping Enquiries**

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone0121 623 9780EmailNGED.MapResponse@nationalgrid.co.uk

## **General Enquiries**

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

# LSBUD

If you have an enquiry relating to the use of the LSBUD website please contact LSBUD using the following information:

Telephone 0345 437 7365 Email enquiries@LSBUD.co.uk Website www.LSBUD.co.uk



# Steps to help keep you safe

• If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within

10 meters of an overhead electricity line you should call the relevant General Enquiries for free safety advice.

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity. https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice

• **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.

• **Look for signs of service cables -** an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.

• **Non NGED Network** - electricity cables, lines and equipment owned by others may also be present in addition to NGED network. They are unlikely to be shown on our plans.

• **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.

• **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.

• **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.

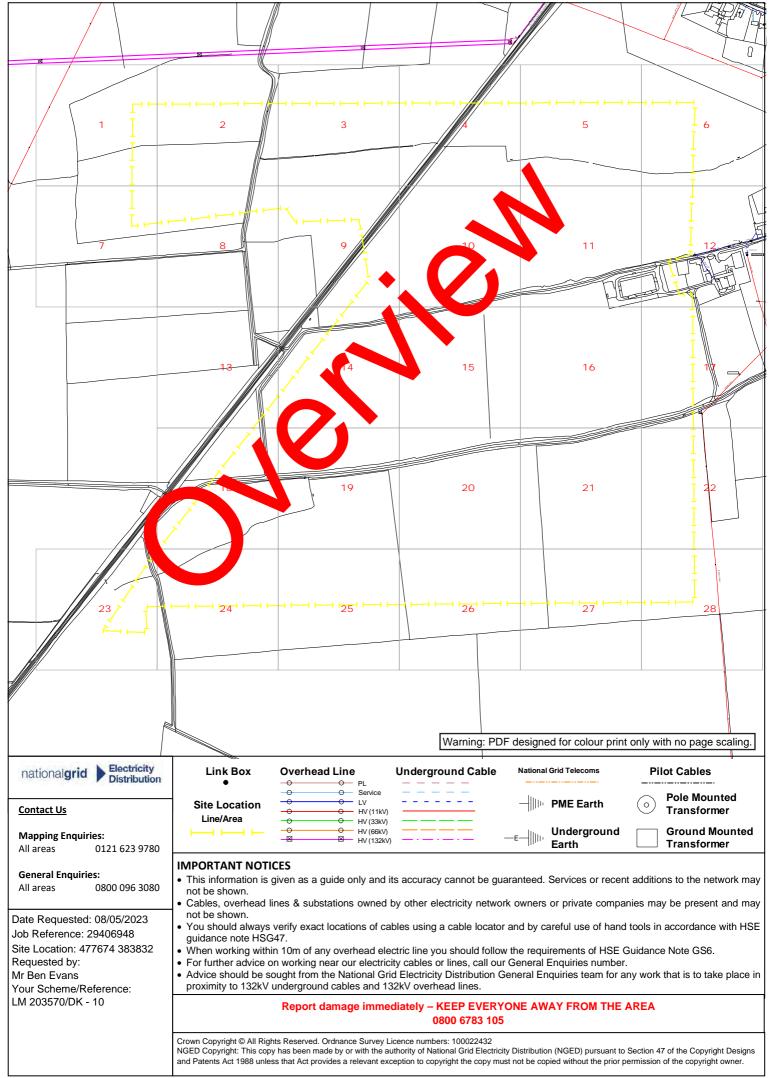
• If you are working within 10 meters of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

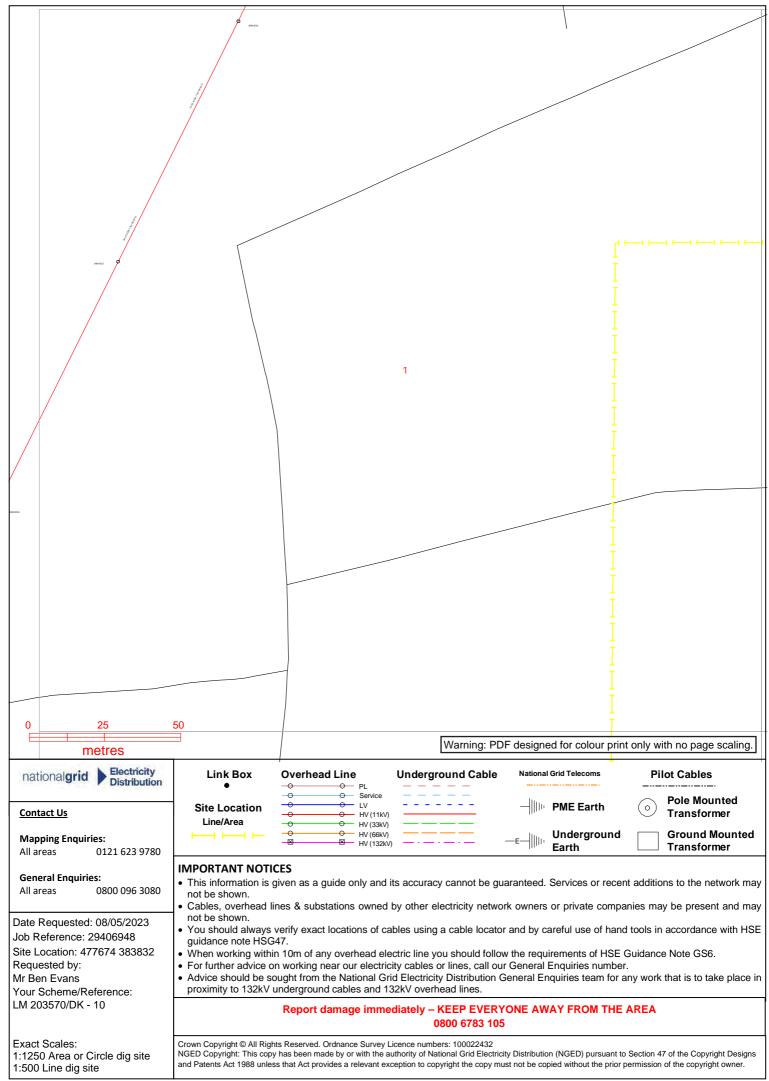
• If you are erecting a structure that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then you must inform us. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.

• **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.

• It is possible that cables or pipes may be embedded in concrete - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

• **Cables are sometimes covered by tiles or a marker tape** - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.





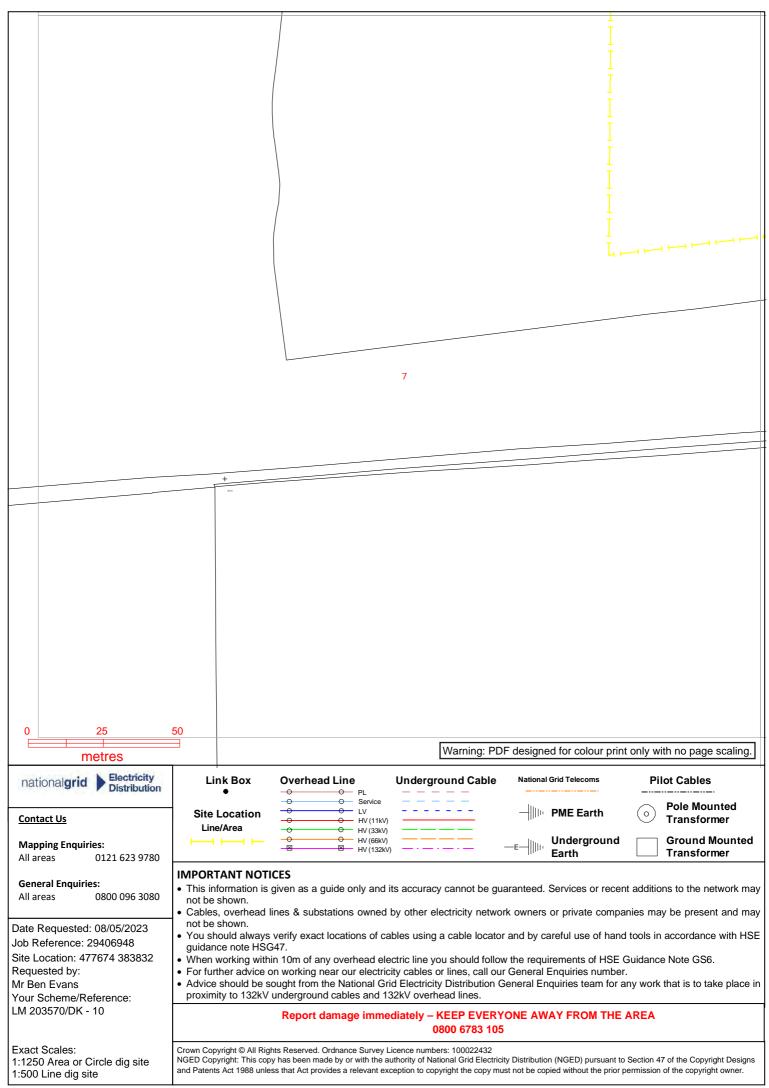
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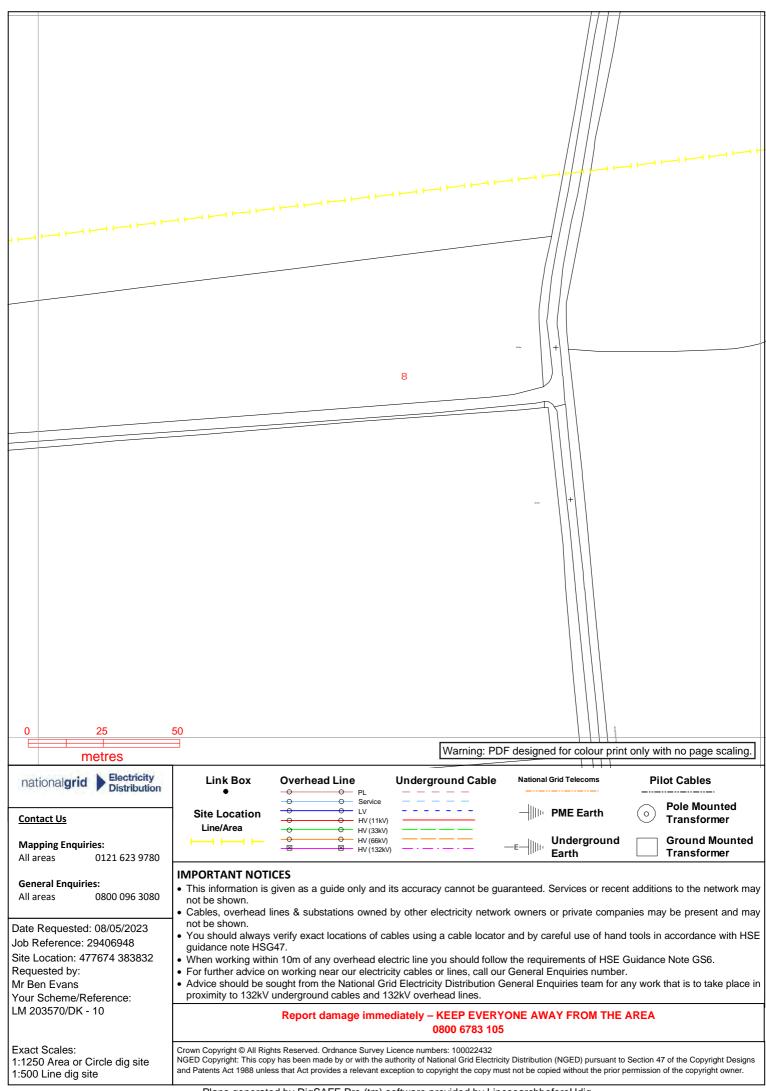
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metres	Link Box • Site Location	O         O         PL           O         O         Service           O         O         LV           O         O         HV (11kV)		National Grid Telecoms	Pilot Cables
nationalgrid Electricity Distribution	Link Box • Site Location Line/Area	→         →         PL           →         →         →         Service           →         →         ↓         ↓		National Grid Telecoms ——∭III⊡ PME Earth	Pilot Cables Pole Mounted Transformer
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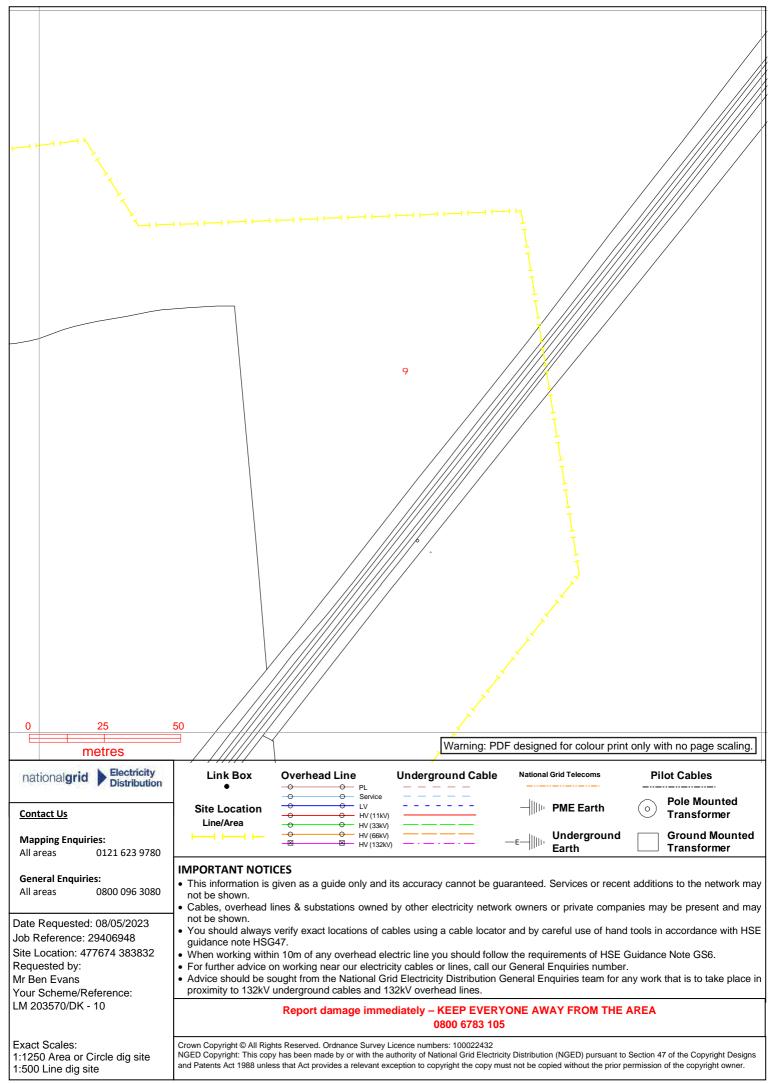
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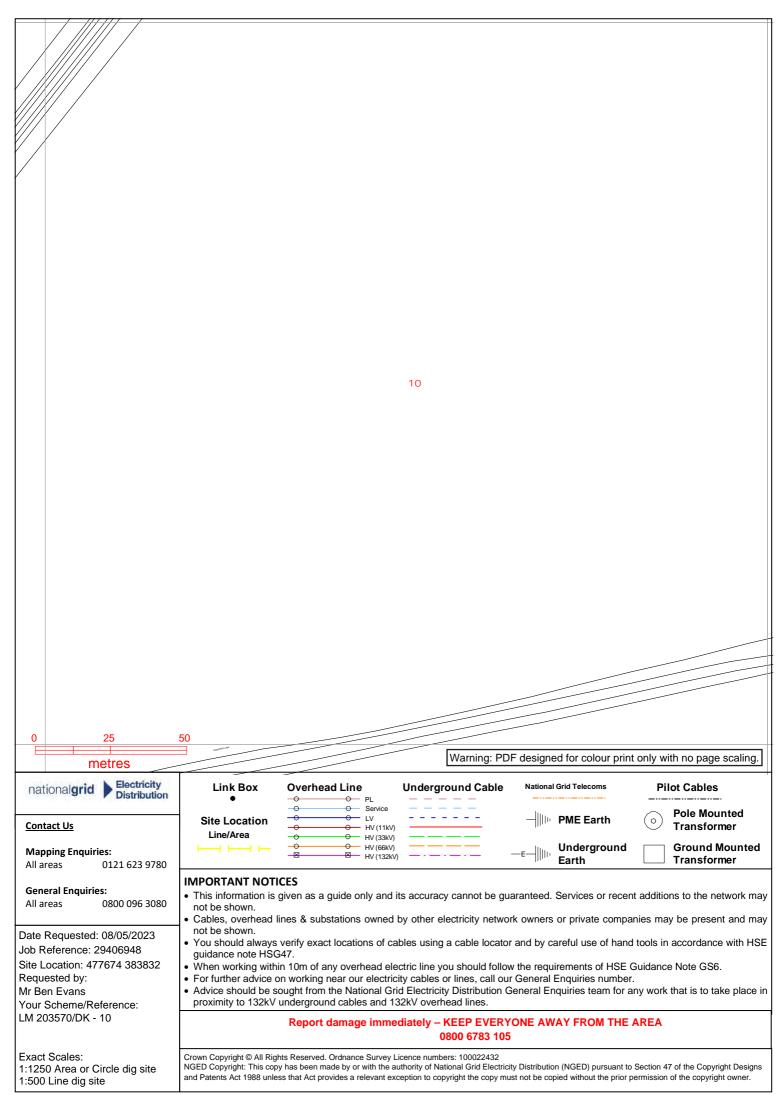
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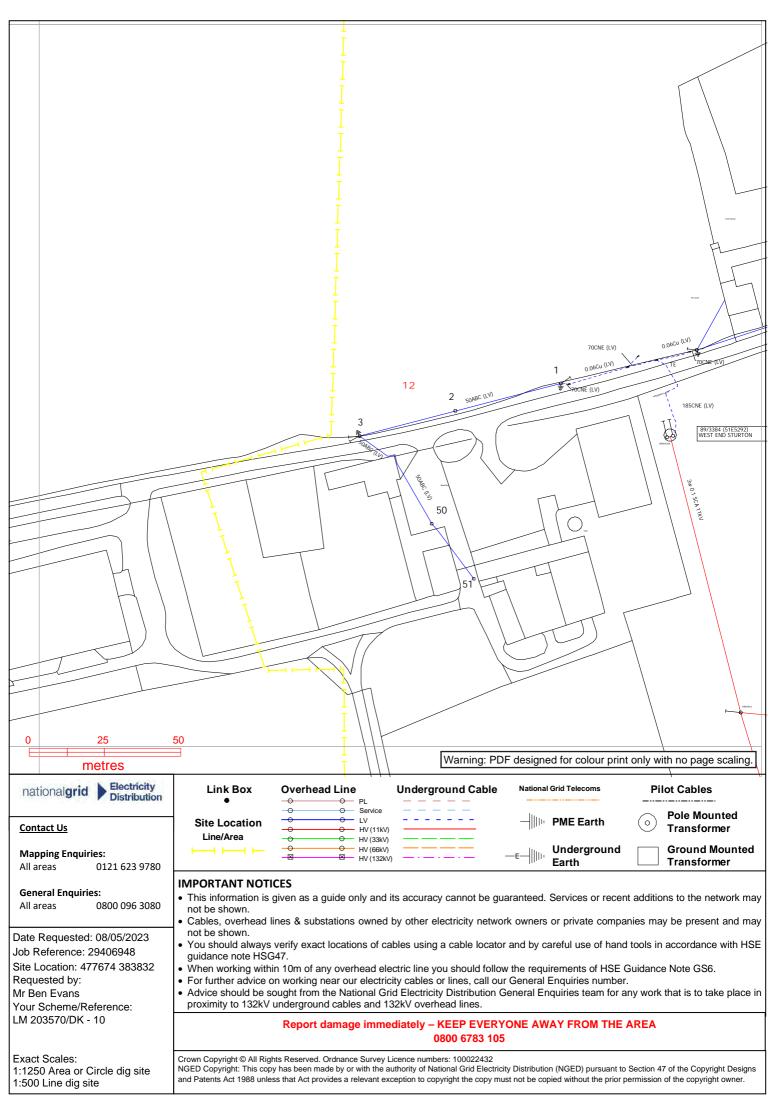


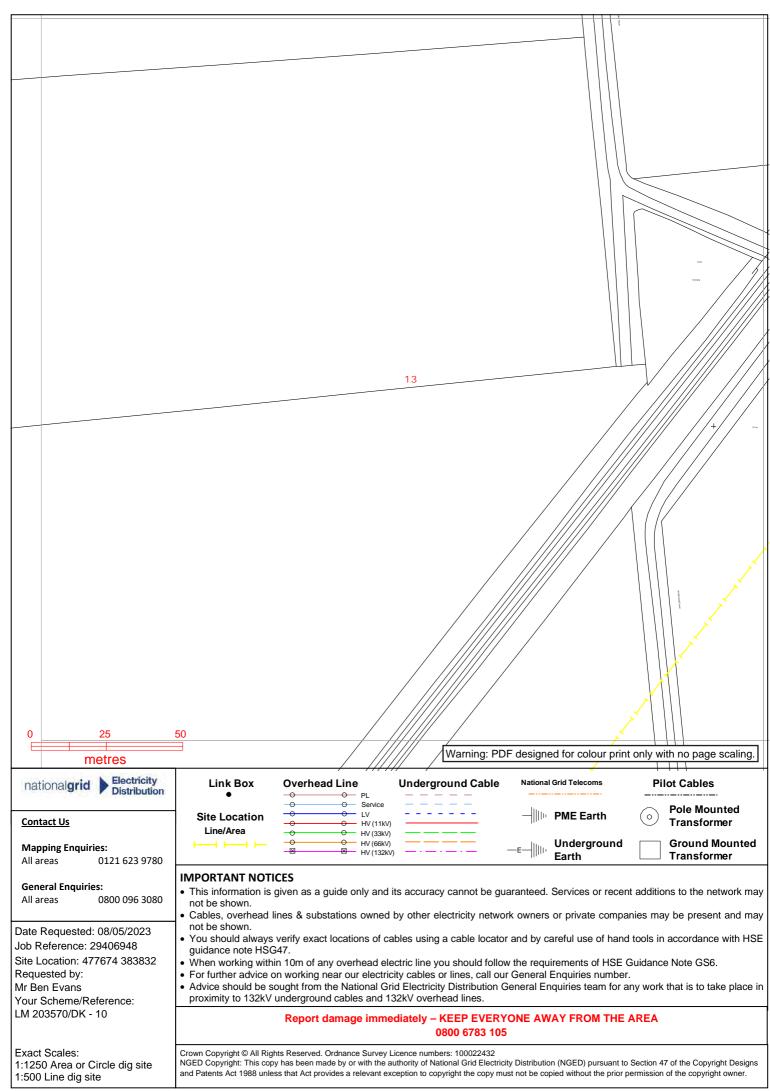






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Your Scheme/Reference: LM 203570/DK - 10	proximity to 132kV underground cables and 132kV overhead lines.  Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA 0800 6783 105	
Exact Scales: 1:1250 Area or Circle dig site 1:500 Line dig site	Crown Copyright © All Rights Reserved. Ordnance Survey Licence numbers: 100022432 NGED Copyright: This copy has been made by or with the authority of National Grid Electricity Distribution (NGED) pursuant to Section 47 of the Copyright Des and Patents Act 1988 unless that Act provides a relevant exception to copyright the copy must not be copied without the prior permission of the copyright owner	
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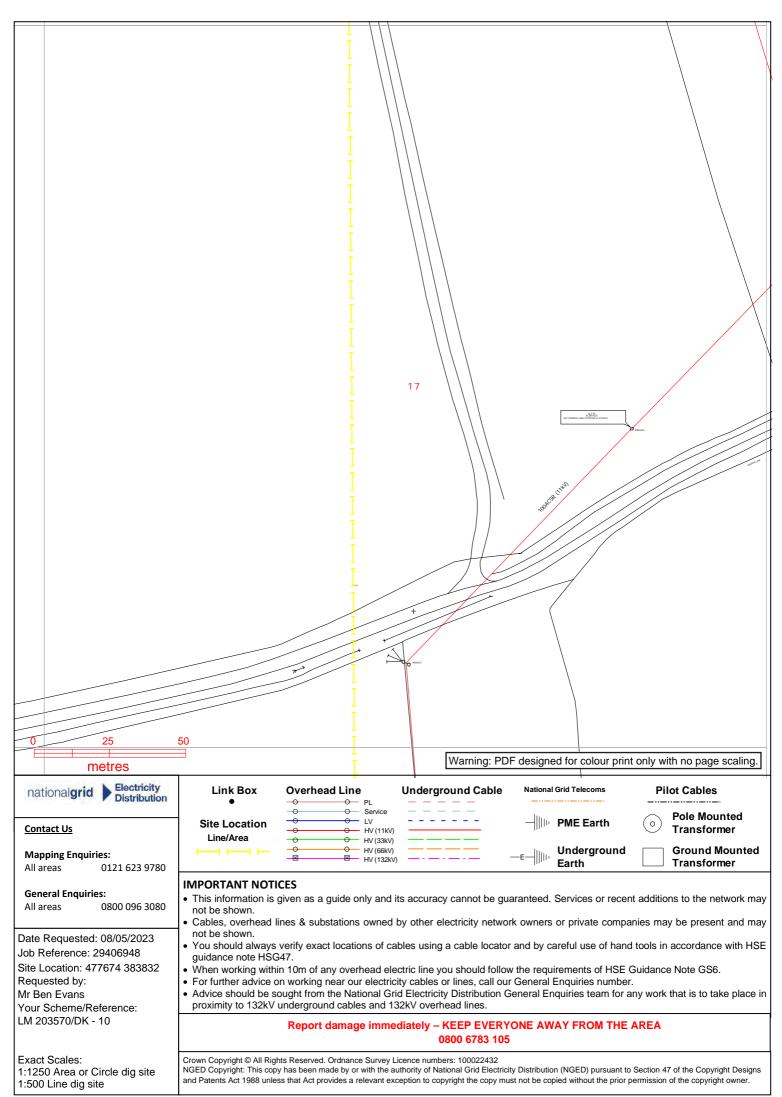


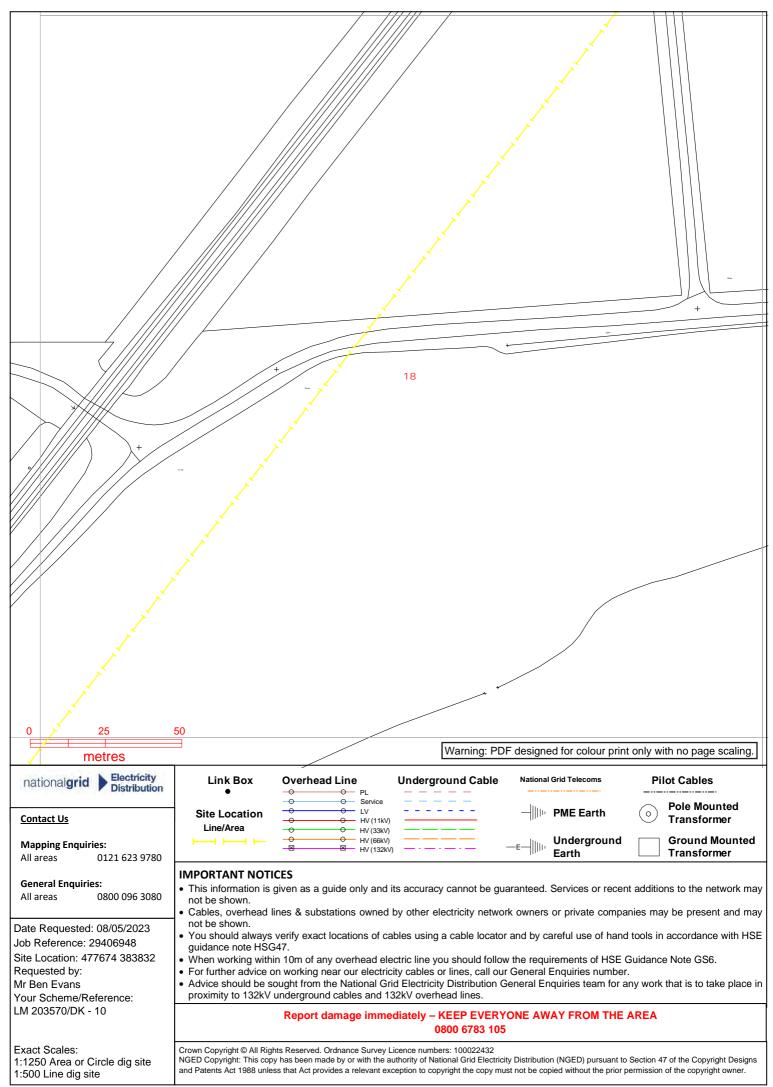


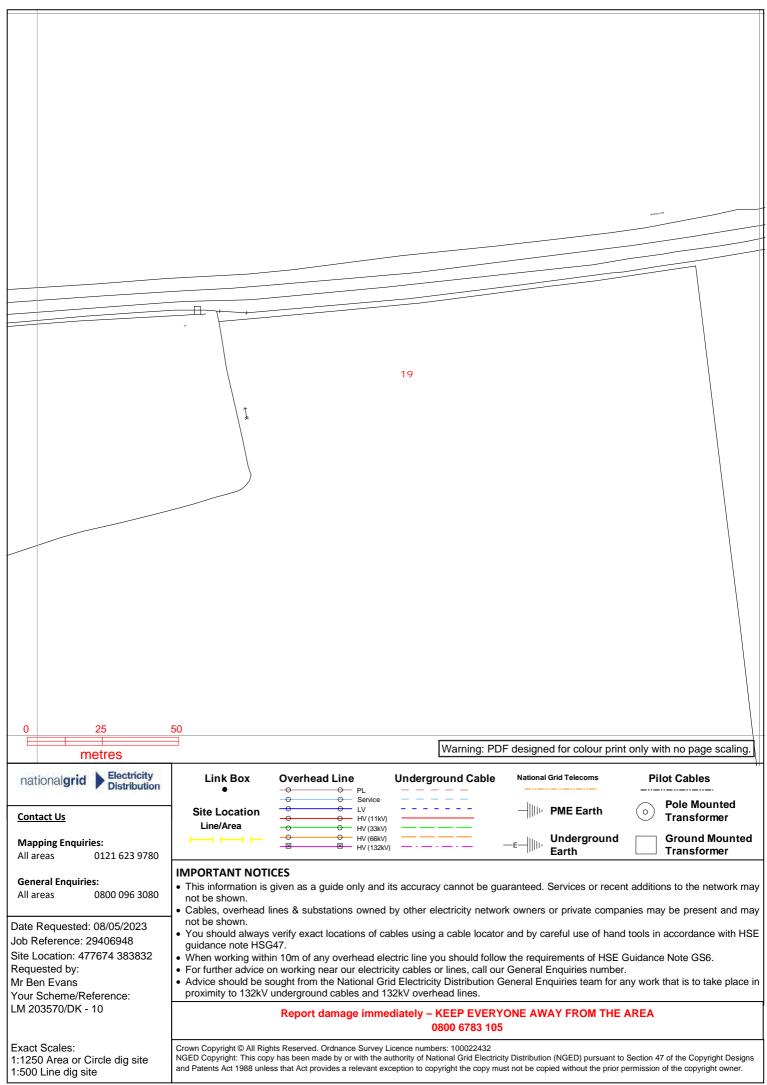
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General Enquiries:       All areas       0800 096 3080       IMPORTANT NOTICES         All areas       0800 096 3080       - This information is given as a guide only and its accuracy cannot be guaranteed. Services or recent additions to the nere not be shown.         Date Requested:       08/05/2023         Job Reference:       29406948         Site Location:       477674 383832         Requested by:       - You should always verify exact locations of cables using a cable locator and by careful use of hand tools in accordance guidance note HSG47.         When working within 10m of any overhead electric line you should follow the requirements of HSE Guidance Note GS6.         For further advice on working near our electricity cables or lines, call our General Enquiries number.         Advice should be sought from the National Grid Electricity Distribution General Enquiries team for any work that is to tal proximity to 132kV underground cables and 132kV overhead lines.         LM 203570/DK - 10       Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA 0800 6783 105         Exact Scales:       Crown Copyright © All Rights Reserved. Ordnance Survey Licence numbers: 100022432         1:1250 Area or Circle dig site       Crown Copyright © All Rights Reserved. Ordnance Survey Licence numbers: 100022432         NGED Copyright: This copy has been made by or with the authority of National Grid Electricity Distribution (NGED) pursuant to Section 47 of the Copyrigh and Patents Act 1988 unless that Act provides a relevant exception to copyright the copy must not be copied	t and may with HSE te place in ght Designs

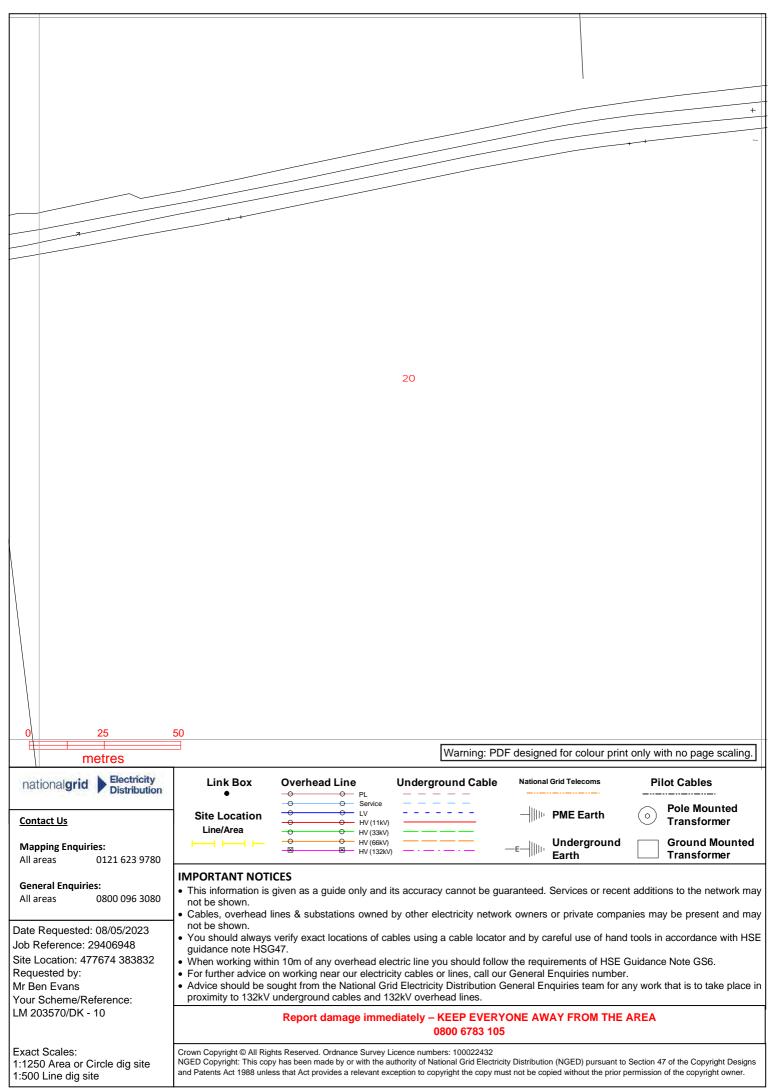
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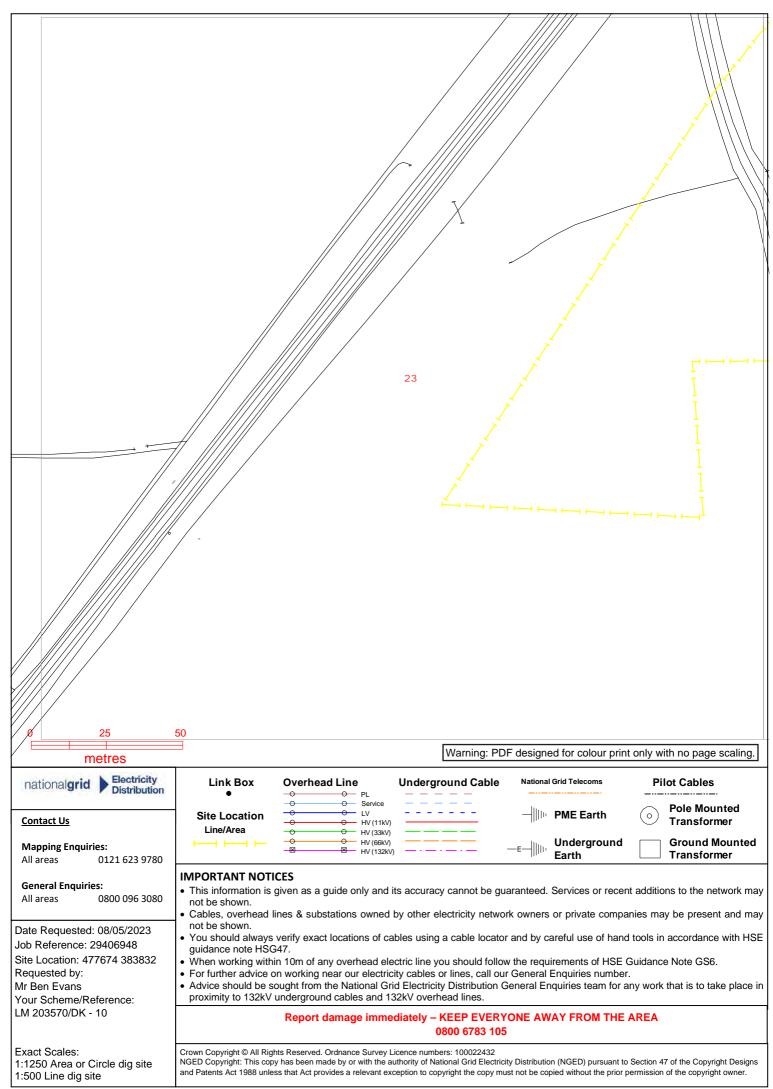


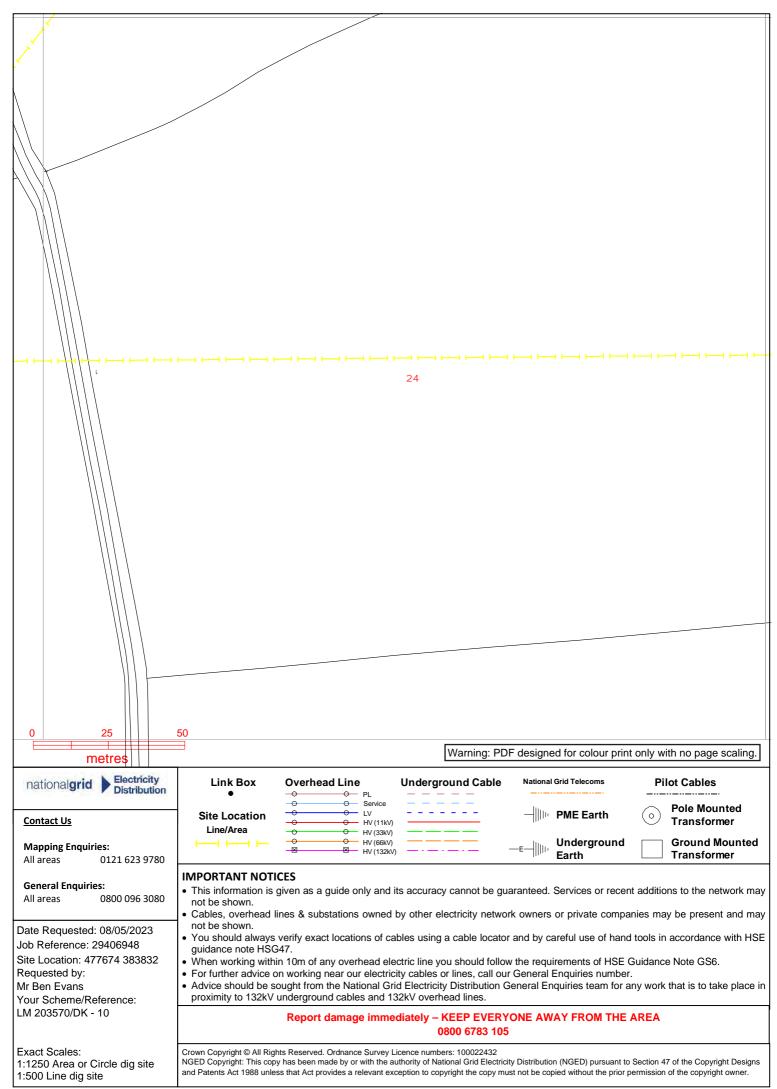




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Contact Us       Site Location       PL       PL       PL       PL       PL       PL       POIE Mounted Transformer         Mapping Enquiries:       All areas       0121 623 9780       General Enquiries:       Underground       Ground Mounted Transformer         All areas       0800 096 3080       IMPORTANT NOTICES       This information is given as a guide only and its accuracy cannot be guaranteed. Services or recent additions to the network m not be shown.         Date Requested:       08/05/2023       Os overhead lines & substations owned by other electricity network owners or private companies may be present and m not be shown.         Cables, overhead lines & substations of cables using a cable locator and by careful use of hand tools in accordance with HS guidance note HSG47.         When working within 10m of any overhead electric line you should follow the requirements of HSE Guidance Note GS6.         For further advice on working near our electricity cables or lines, call our General Enquiries team for any work that is to take place proximity to 132kV underground cables and 132kV overhead lines.         M203570/DK - 10       Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA 0800 6783 105         Cown Copyright PAII Rights Reserved. Ordnance Survey Licence numbers: 100022432         NEED Copyright This copy has been made by or with the authority of National Grid Electricity Distribution (NGED) pursuant to Section 47 of the Copyright Design	0		50			Warning: PD	F designed for colour print	only with no page scaling.
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Our Ref: 29406949 Your Ref: LM 203570/DK - 11

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West Almondsbury Bristol BS32 4RZ

Dear Ben Evans

Thank you for your enquiry dated Monday, 08 May 2023

I now enclose a copy of our plan showing existing National Grid Electricity Distribution (NGED) Electricity / National Grid Telecoms (NGT) apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all NGED equipment on site should be assumed to be LIVE until NGED prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either NGED Electrical apparatus or NGT Telecoms apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

#### Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015. Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. NGT Telecoms ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Where diversions to NGED apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Following consultation the local NGED team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

This information is given as a guide only and its accuracy cannot be guaranteed. This plan is based on data from our Geographic Information System, which is updated every 24 hours to reflect changes to our network. The information contained in this plan reflects the most recent network GIS data, however changes to the network (including network additions and new service

## National Grid Electricity Distribution Mapping Centre Toll End Road Tipton West Midlands United Kingdom DY4 0HH www.nationalgrid.co.uk

Map Response T 0121 623 9780 NGED.MapResponse @nationalgrid.co.uk

National Grid Electrricity Distribution South West - 02366894 South Wales - 02366985 East Midlands - 02366923 West Midlands - 03600574

Registered in England and Wales

Registered Office: Avonbank Feeder Road Bristol BS2 0TB

### **Safety Documents:**

https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice





connections) may not be shown. You are advised to obtain an up to date plan on the date of commencing on-site works.

Yours sincerely NGED Map Response Team

**Contact Us** 

**Emergency or Power Supply issues** In an emergency call 105, 24 hours a day.

#### **Mapping Enquiries**

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone0121 623 9780EmailNGED.MapResponse@nationalgrid.co.uk

#### **General Enquiries**

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

#### LSBUD

If you have an enquiry relating to the use of the LSBUD website please contact LSBUD using the following information:

Telephone 0345 437 7365 Email enquiries@LSBUD.co.uk Website www.LSBUD.co.uk



# Steps to help keep you safe

• If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within

10 meters of an overhead electricity line you should call the relevant General Enquiries for free safety advice.

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity. https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice

• **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.

• **Look for signs of service cables -** an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.

• **Non NGED Network** - electricity cables, lines and equipment owned by others may also be present in addition to NGED network. They are unlikely to be shown on our plans.

• **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.

• **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.

• **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.

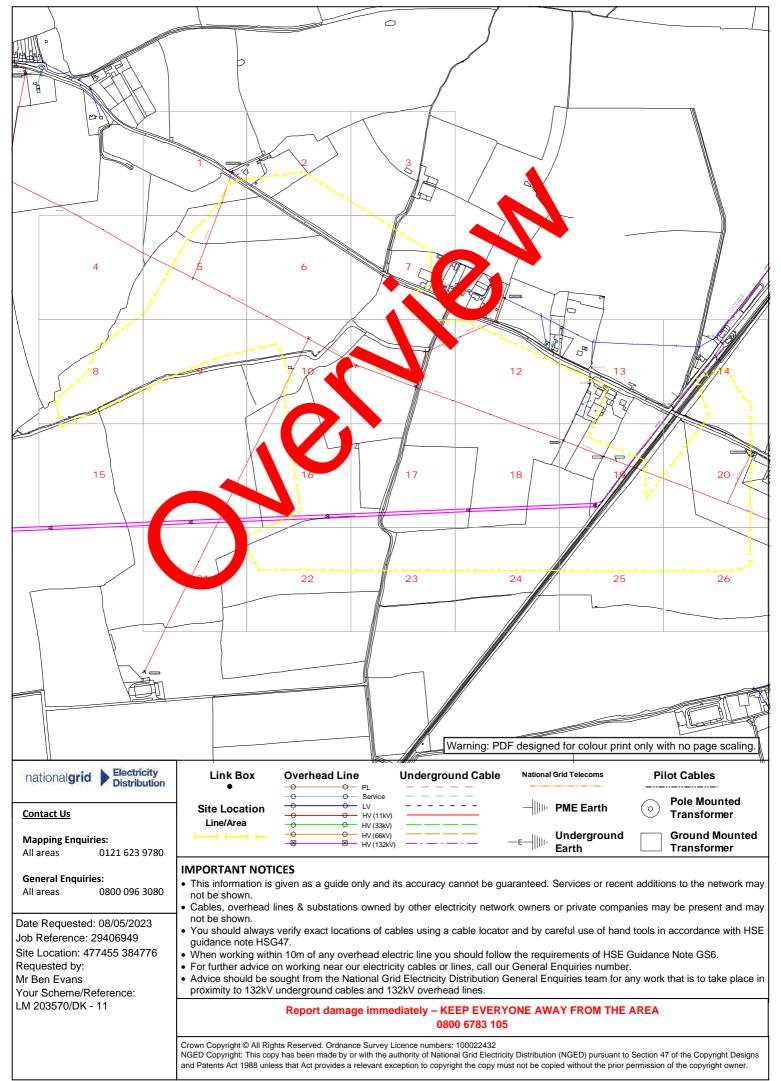
• If you are working within 10 meters of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

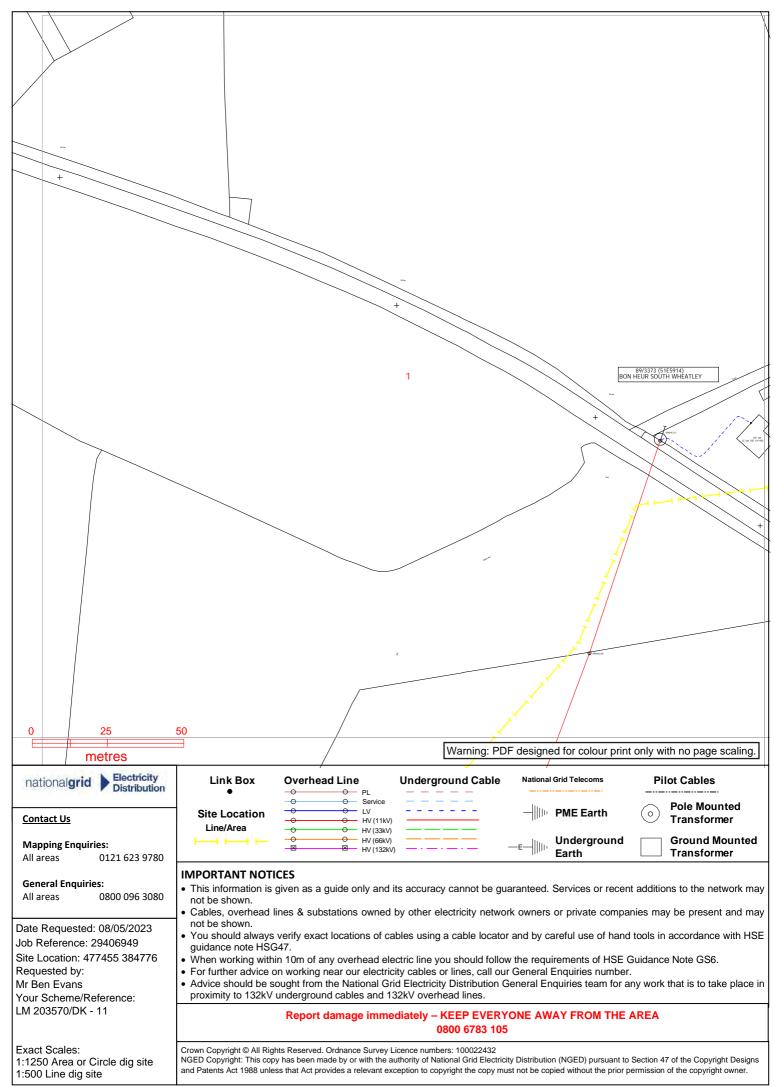
• If you are erecting a structure that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then you must inform us. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.

• **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.

• It is possible that cables or pipes may be embedded in concrete - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

• **Cables are sometimes covered by tiles or a marker tape** - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.



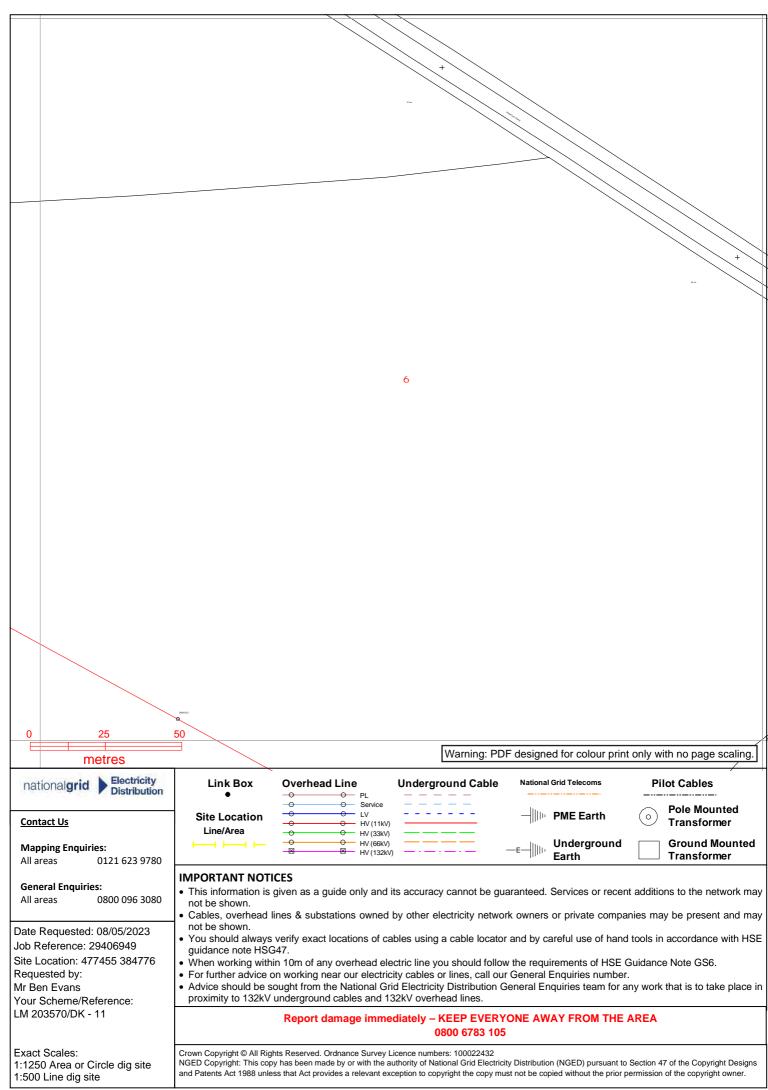


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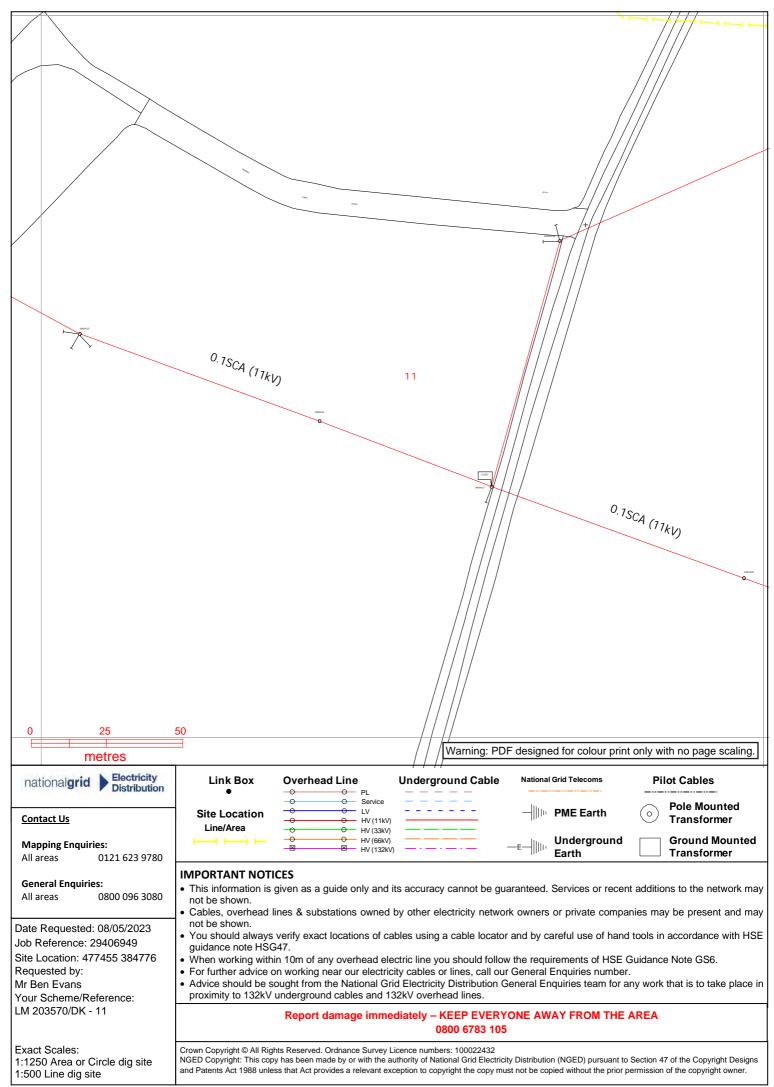


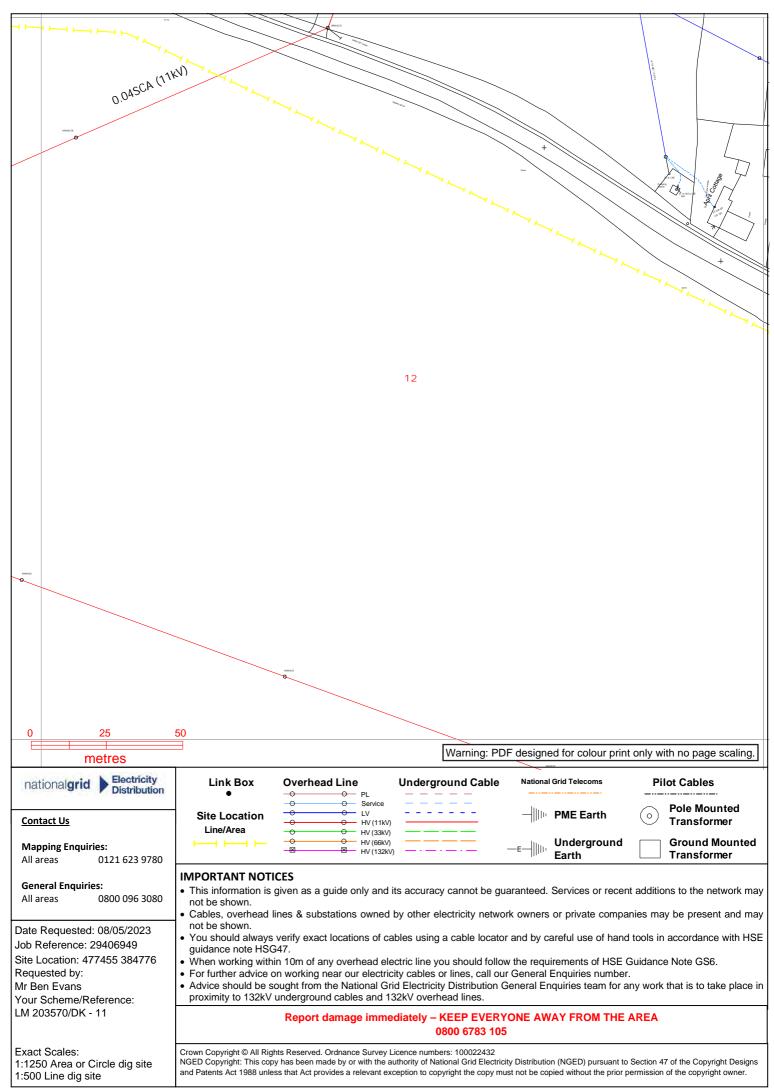
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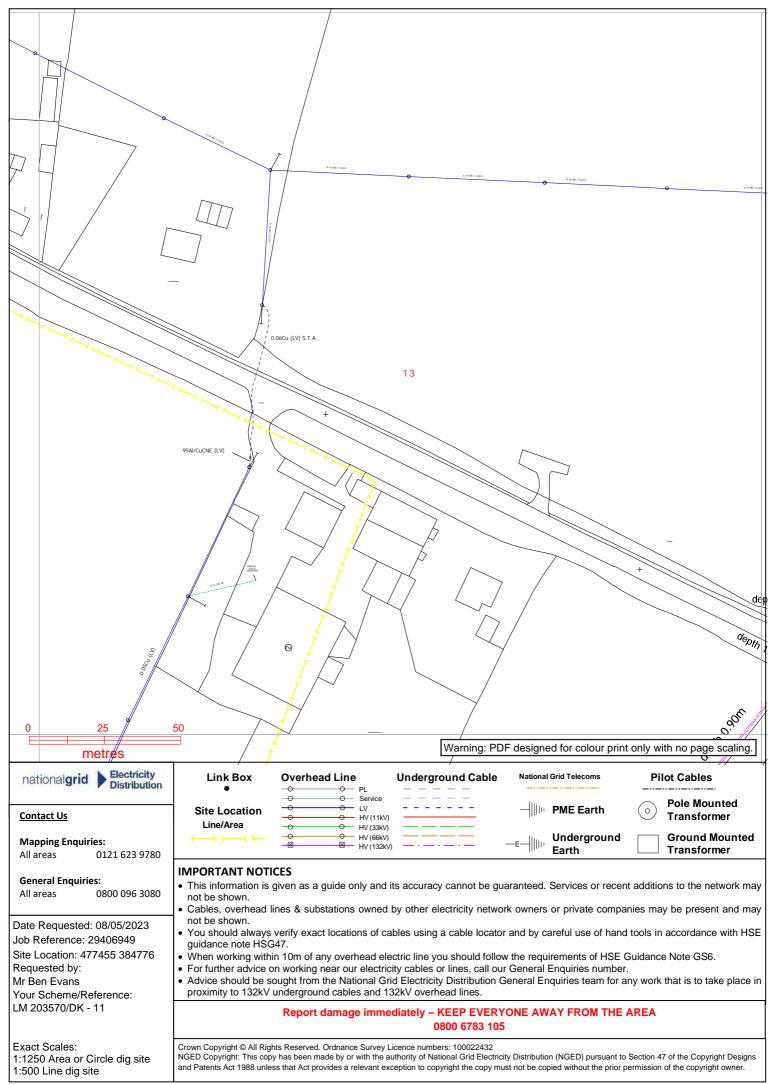
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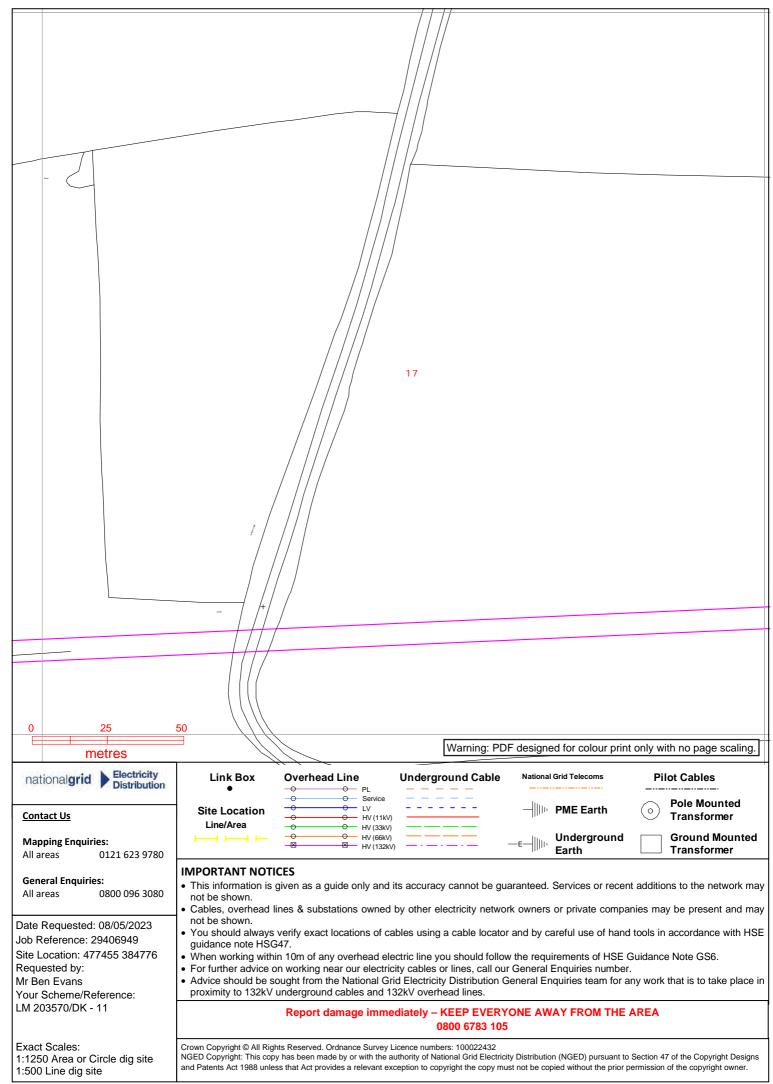




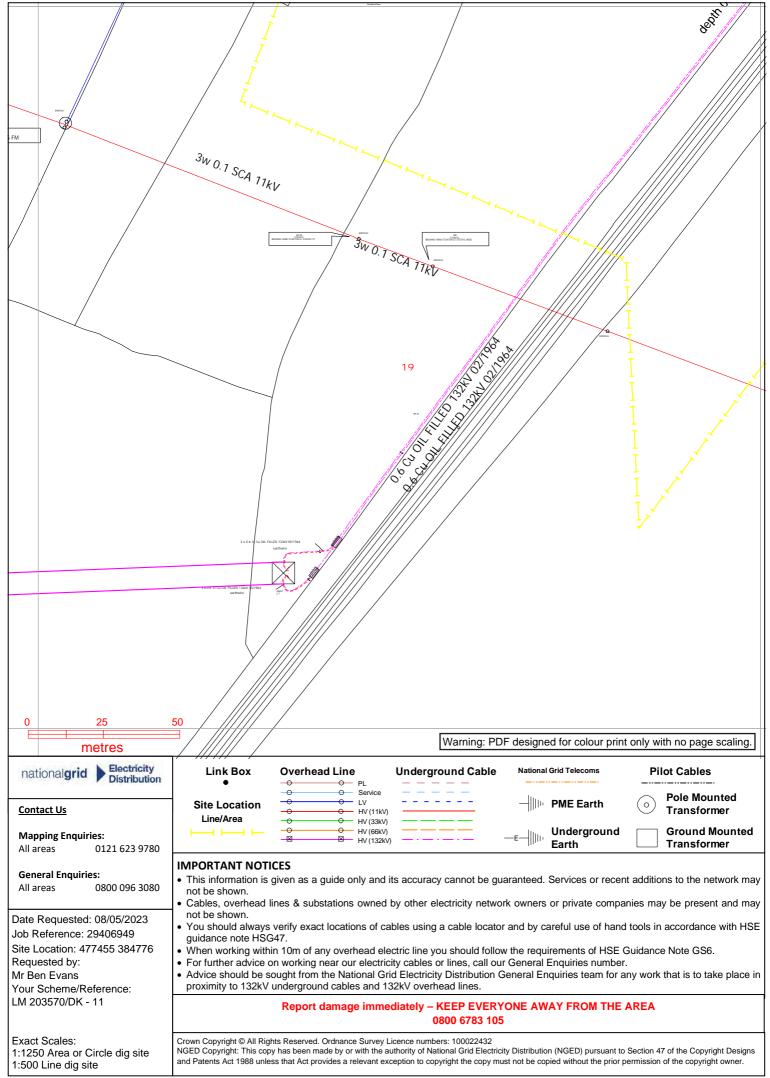
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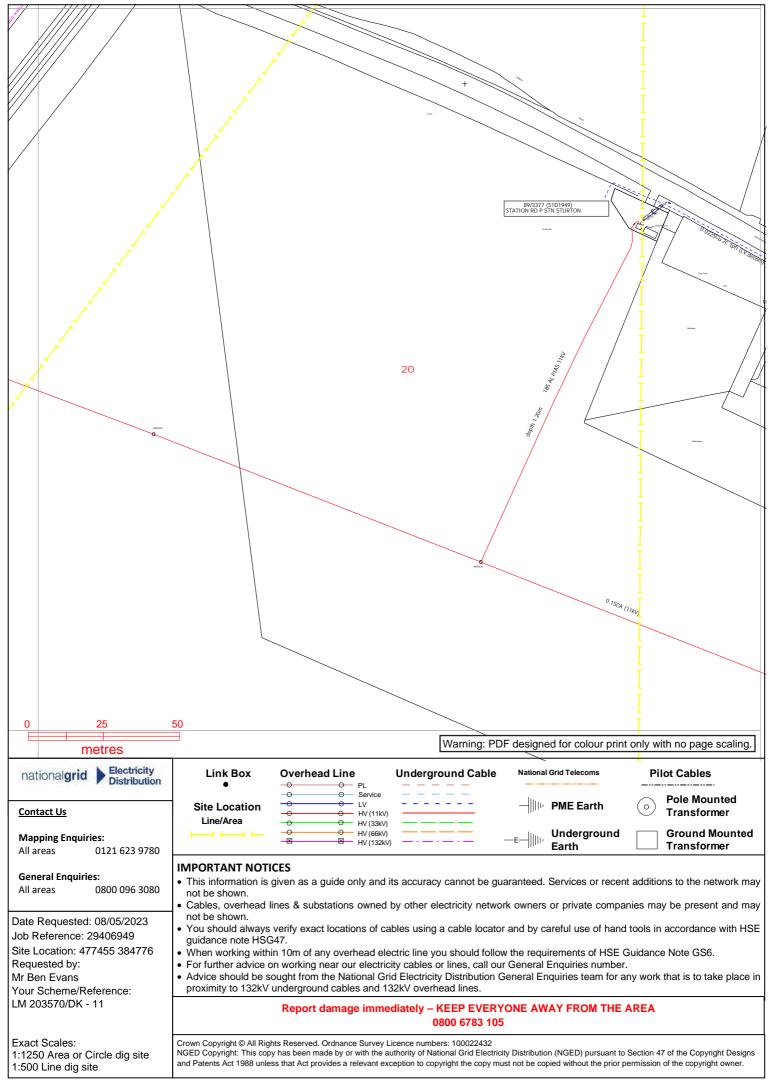
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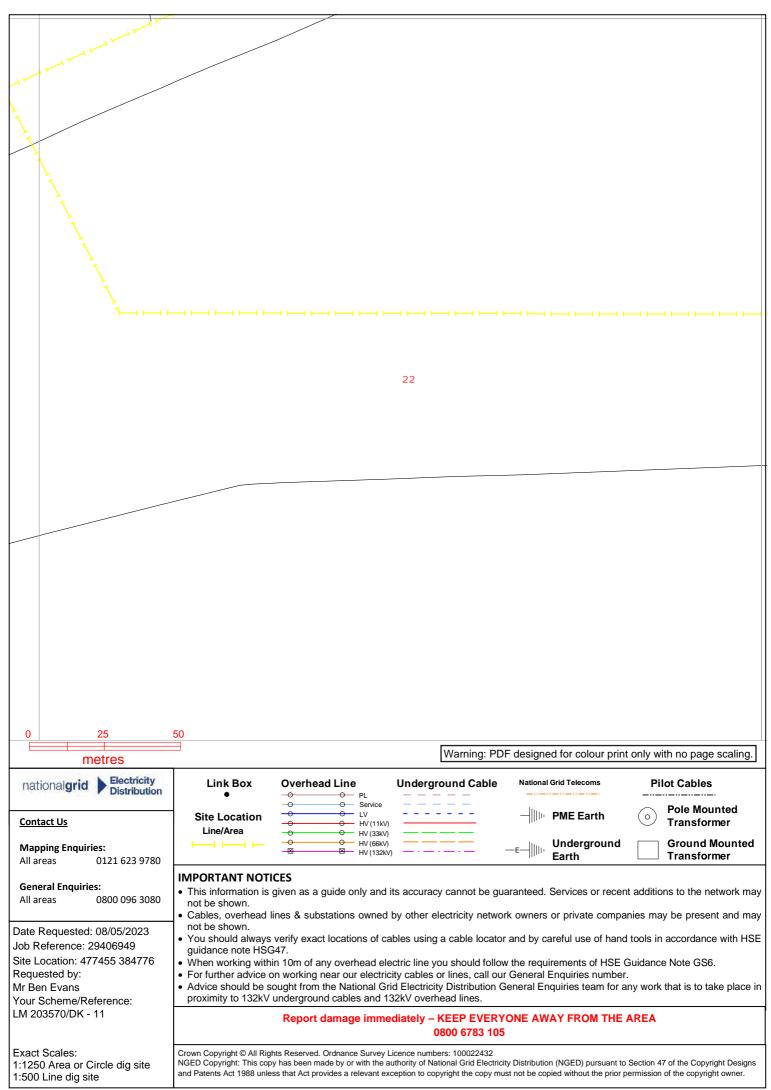


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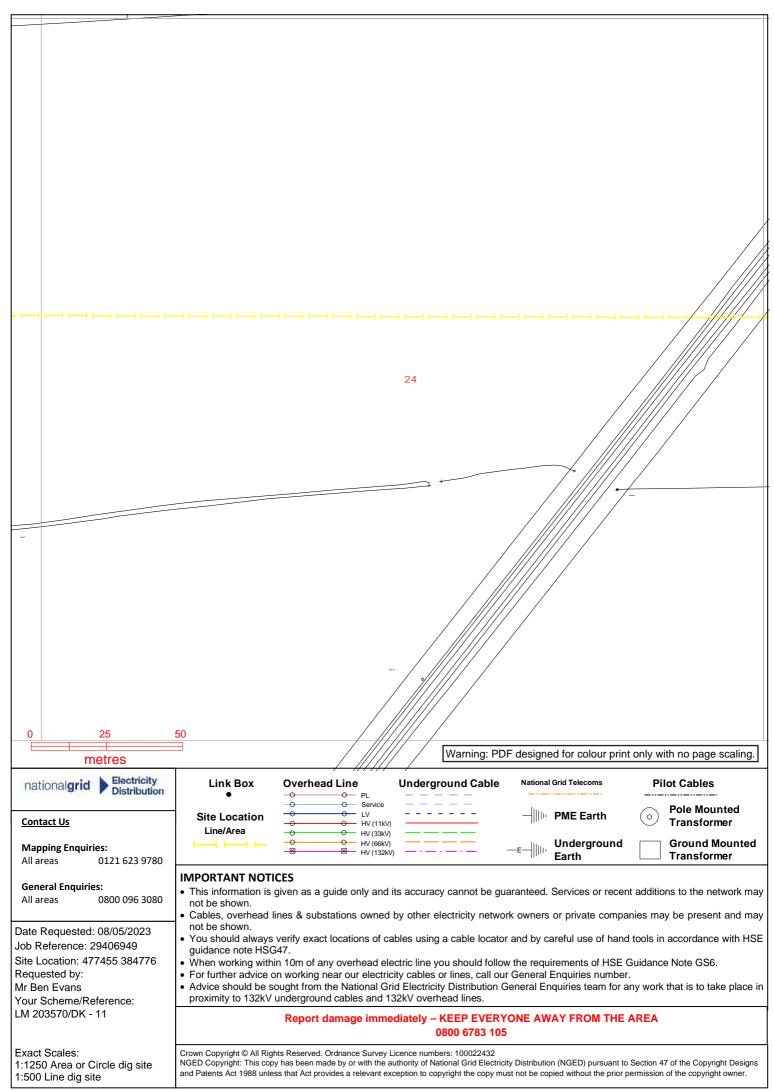


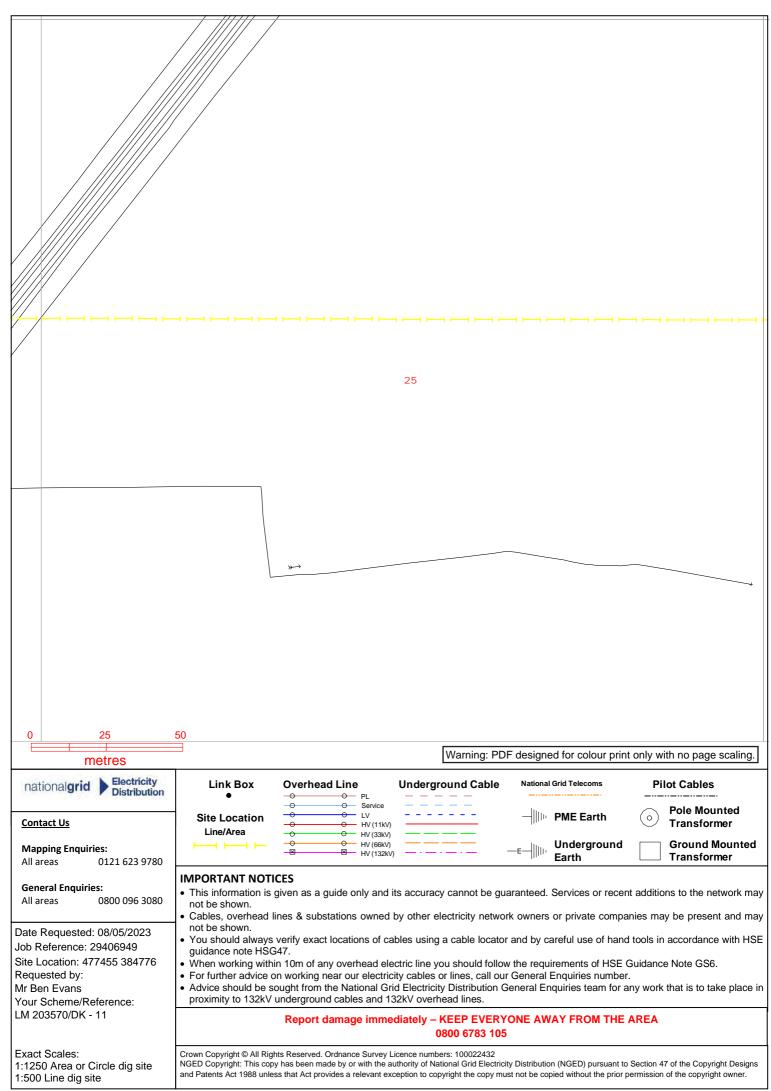


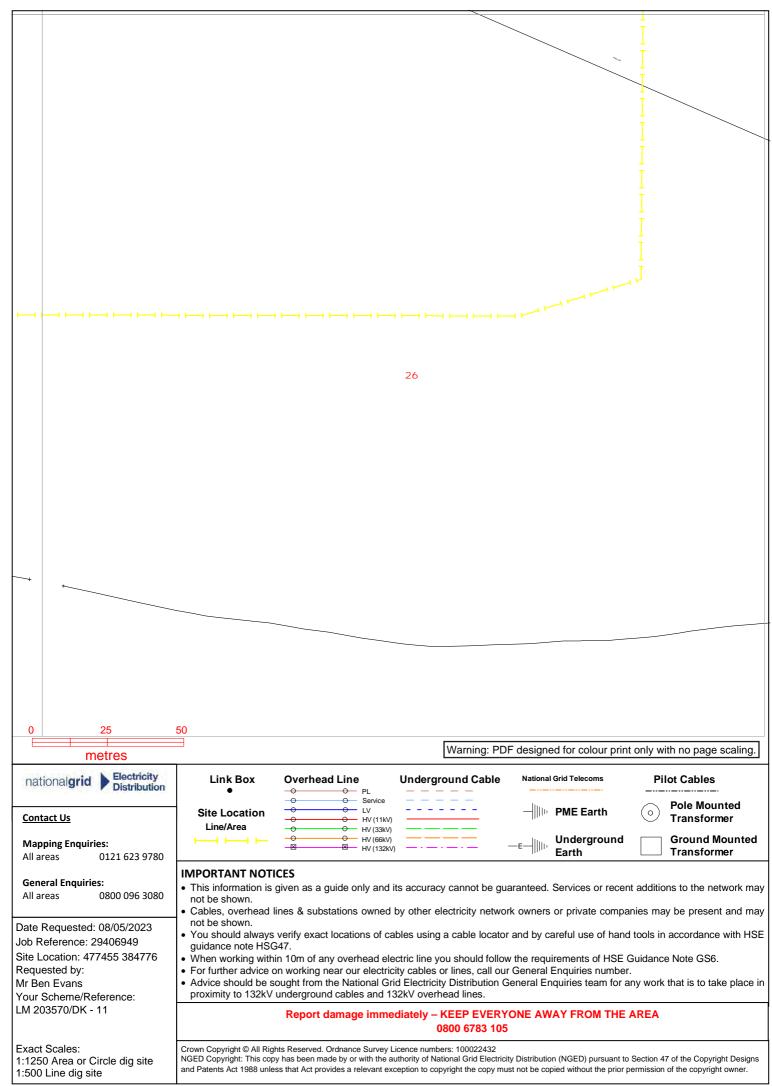
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Our Ref: 29406951 Your Ref: LM 203570/DK - 12

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West Almondsbury Bristol BS32 4RZ

Dear Ben Evans

Thank you for your enquiry dated Monday, 08 May 2023

I now enclose a copy of our plan showing existing National Grid Electricity Distribution (NGED) Electricity / National Grid Telecoms (NGT) apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all NGED equipment on site should be assumed to be LIVE until NGED prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either NGED Electrical apparatus or NGT Telecoms apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

# Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015. Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. NGT Telecoms ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Where diversions to NGED apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Following consultation the local NGED team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

This information is given as a guide only and its accuracy cannot be guaranteed. This plan is based on data from our Geographic Information System, which is updated every 24 hours to reflect changes to our network. The information contained in this plan reflects the most recent network GIS data, however changes to the network (including network additions and new service

# National Grid Electricity Distribution Mapping Centre Toll End Road Tipton West Midlands United Kingdom DY4 0HH www.nationalgrid.co.uk

Map Response T 0121 623 9780 NGED.MapResponse @nationalgrid.co.uk

National Grid Electrricity Distribution South West - 02366894 South Wales - 02366985 East Midlands - 02366923 West Midlands - 03600574

Registered in England and Wales

Registered Office: Avonbank Feeder Road Bristol BS2 0TB

https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice





connections) may not be shown. You are advised to obtain an up to date plan on the date of commencing on-site works.

Yours sincerely NGED Map Response Team

**Contact Us** 

**Emergency or Power Supply issues** In an emergency call 105, 24 hours a day.

# **Mapping Enquiries**

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone0121 623 9780EmailNGED.MapResponse@nationalgrid.co.uk

## **General Enquiries**

If you have a general enquiry, please call us on the following telephone number:

All areas 0800 096 3080

# LSBUD

If you have an enquiry relating to the use of the LSBUD website please contact LSBUD using the following information:

Telephone 0345 437 7365 Email enquiries@LSBUD.co.uk Website www.LSBUD.co.uk



# Steps to help keep you safe

• If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within

10 meters of an overhead electricity line you should call the relevant General Enquiries for free safety advice.

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity. https://www.nationalgrid.co.uk/customers-and-community/health-safety/public-safety-advice

• **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.

• **Look for signs of service cables -** an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.

• **Non NGED Network** - electricity cables, lines and equipment owned by others may also be present in addition to NGED network. They are unlikely to be shown on our plans.

• **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.

• **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.

• **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.

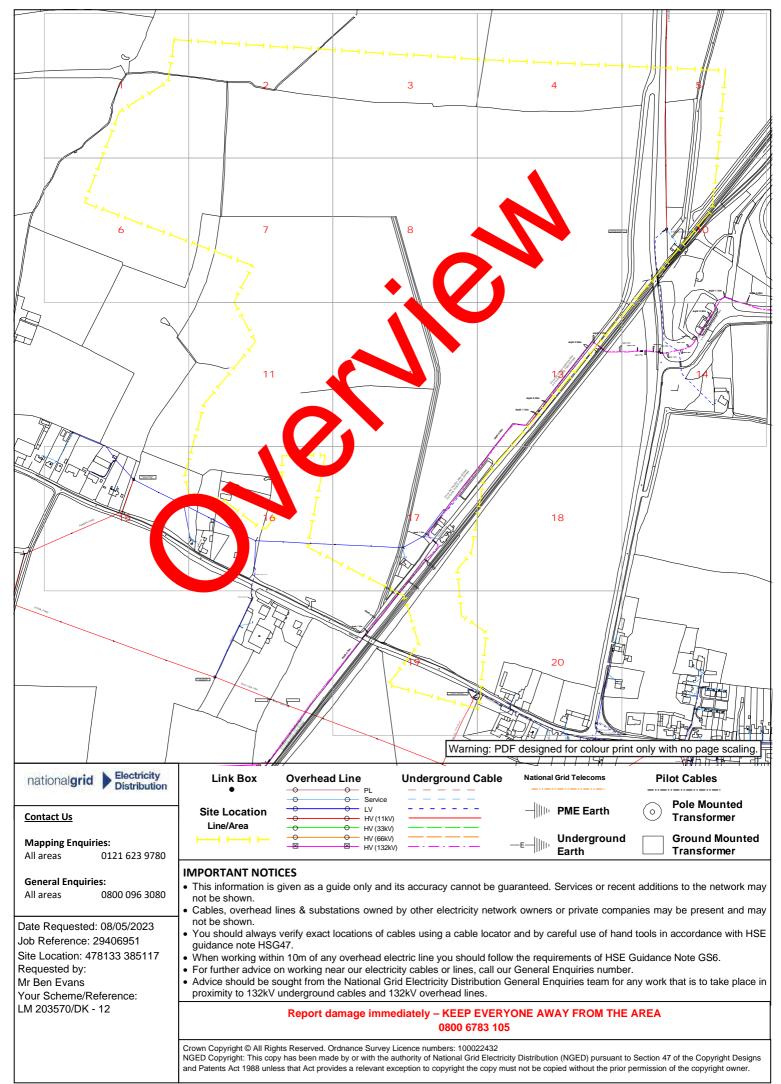
• If you are working within 10 meters of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

• If you are erecting a structure that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then you must inform us. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.

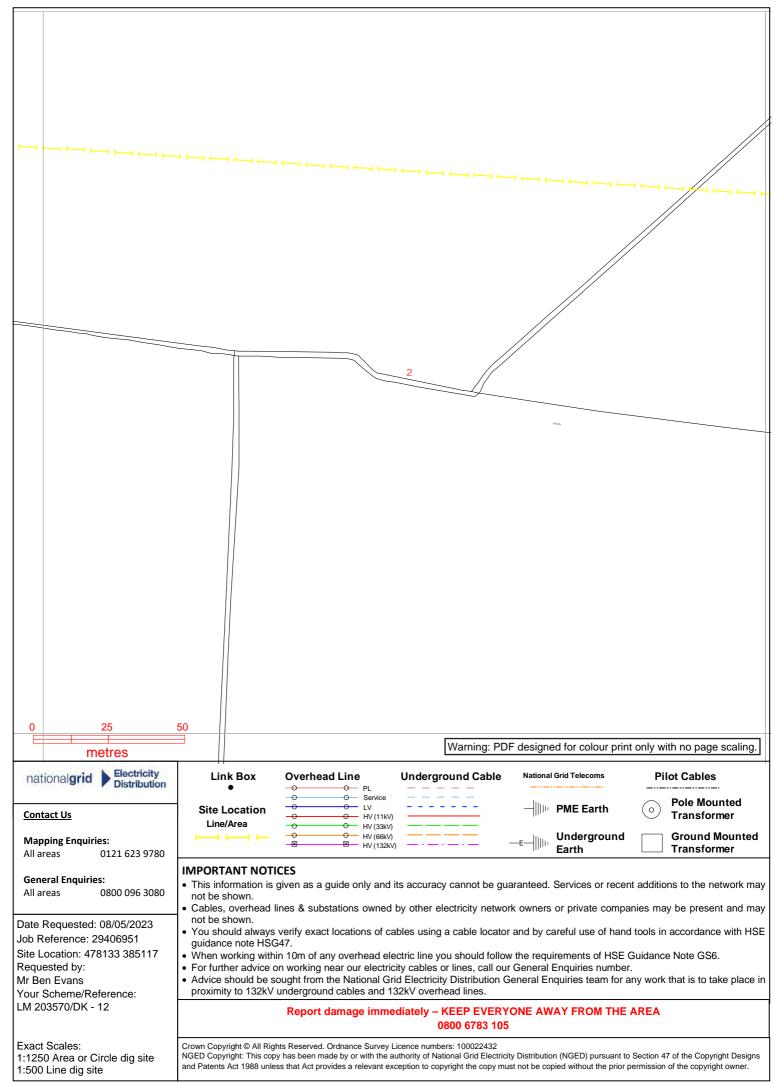
• **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.

• It is possible that cables or pipes may be embedded in concrete - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

• **Cables are sometimes covered by tiles or a marker tape** - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.

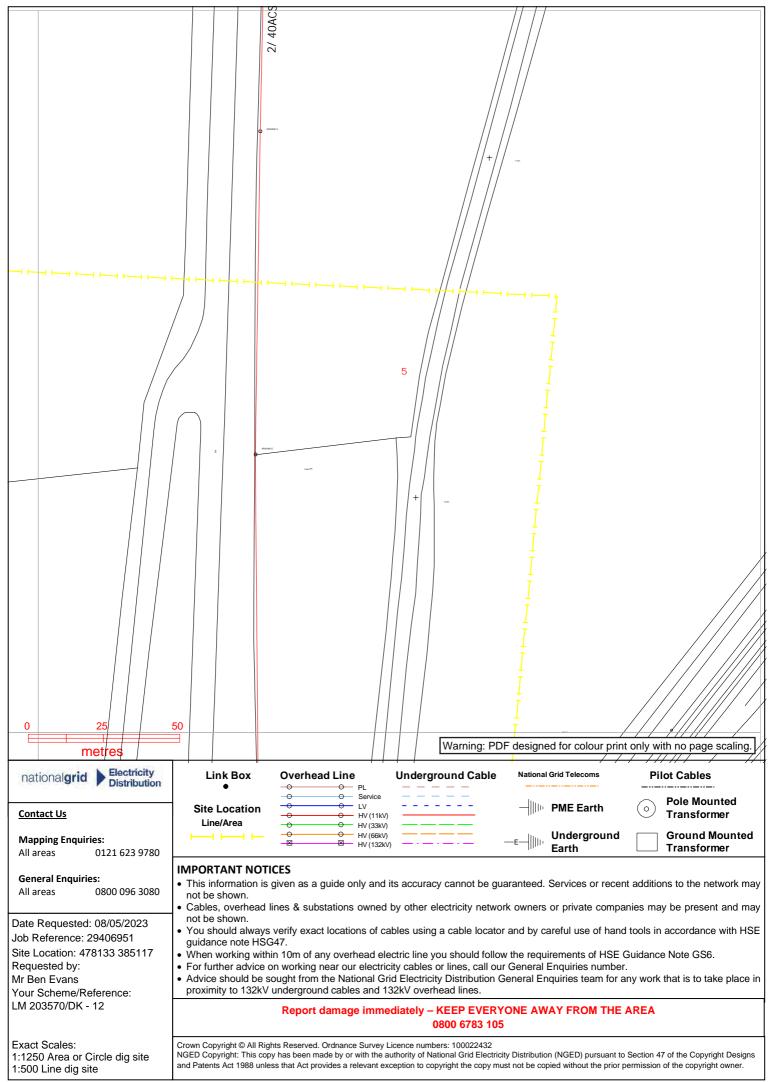


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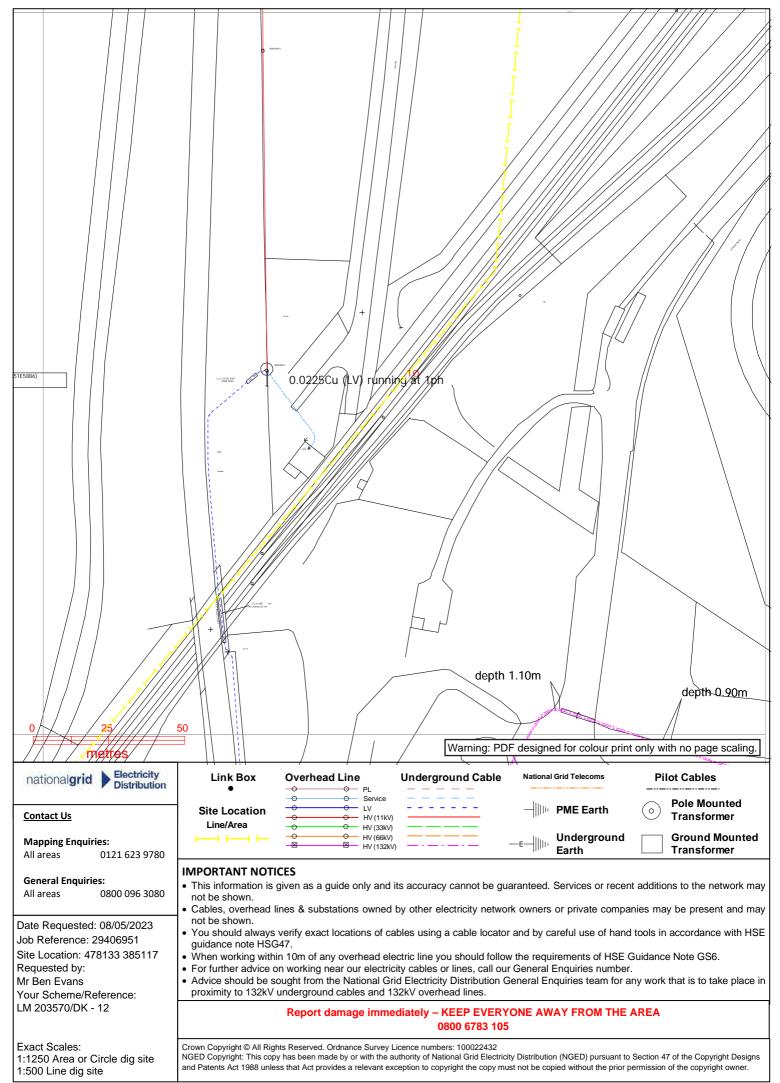
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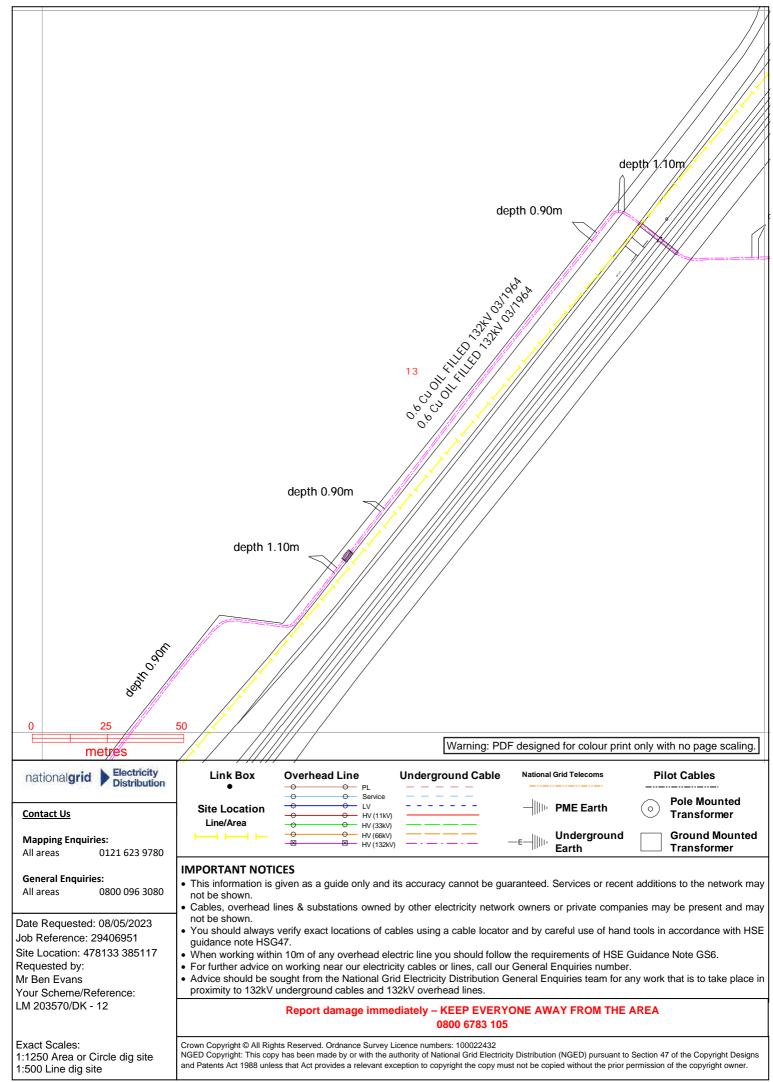
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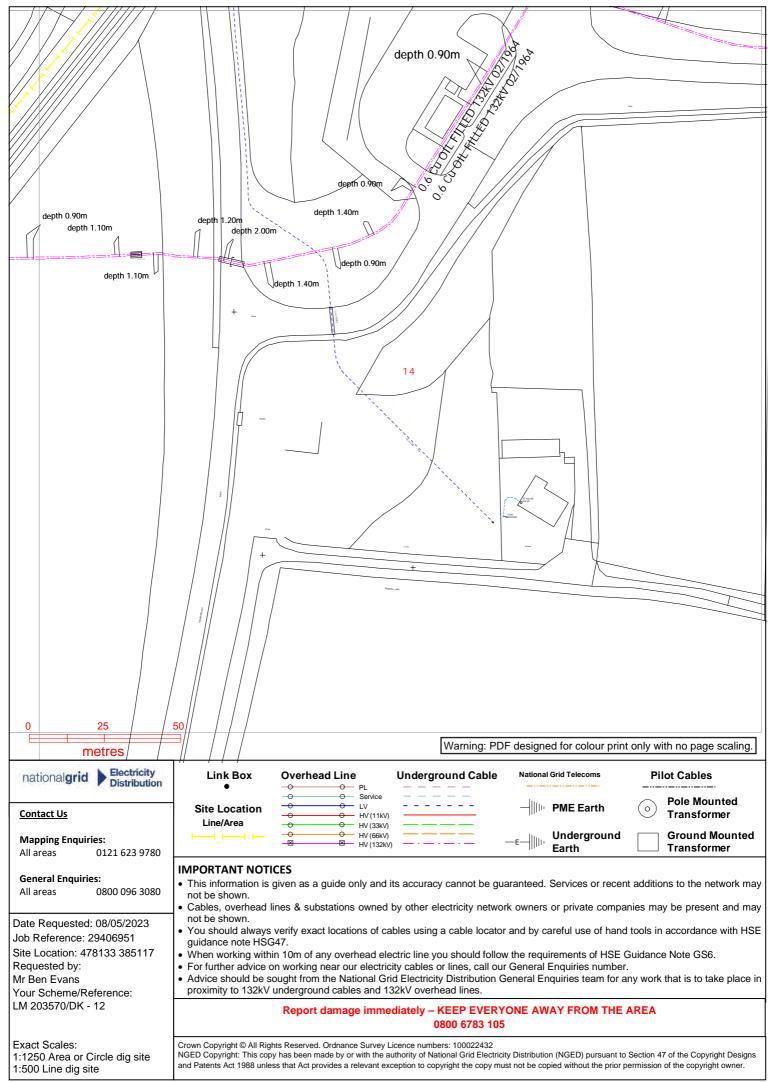
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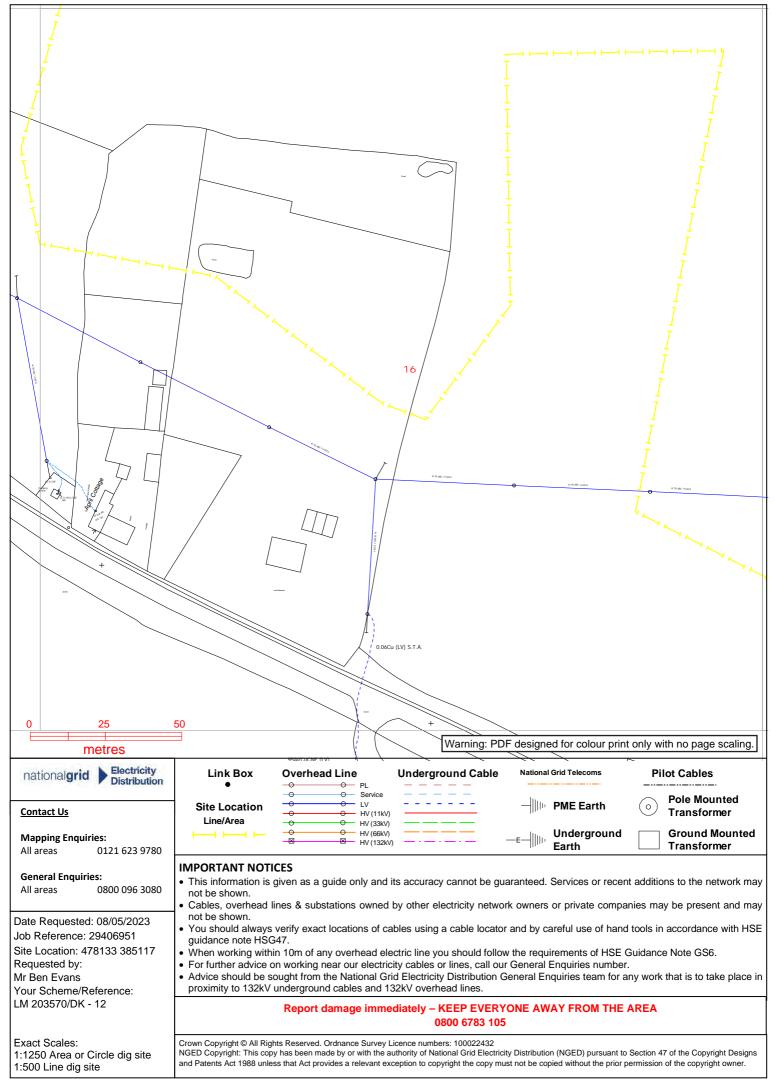
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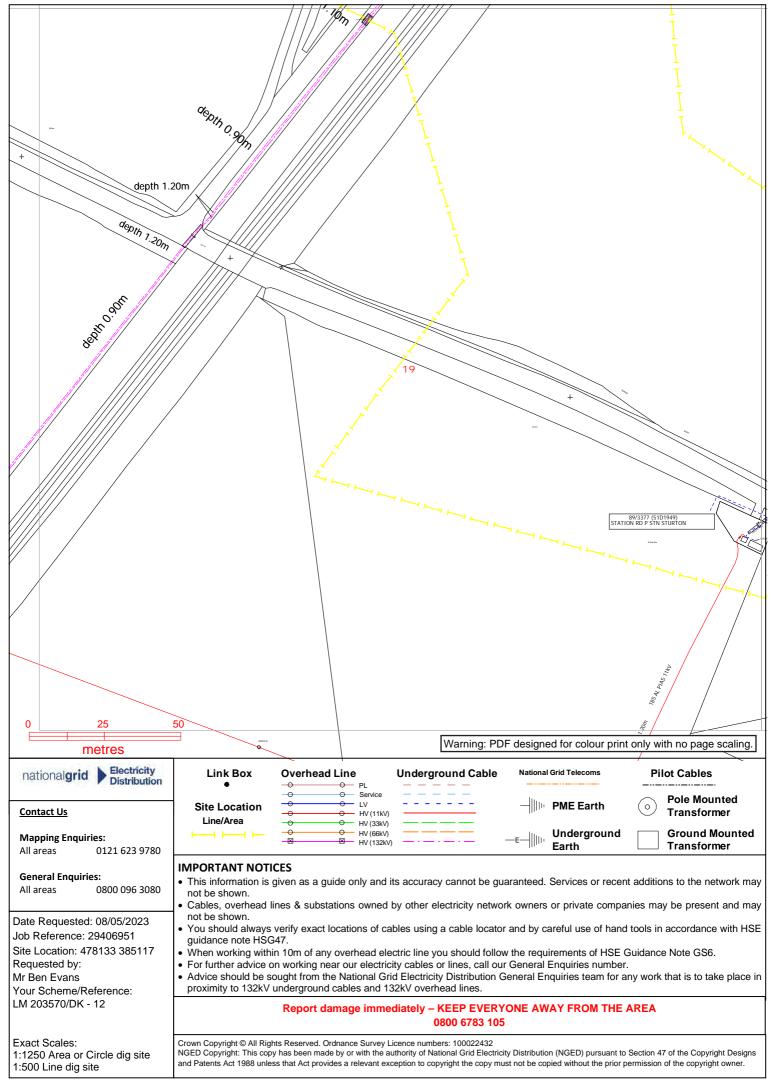


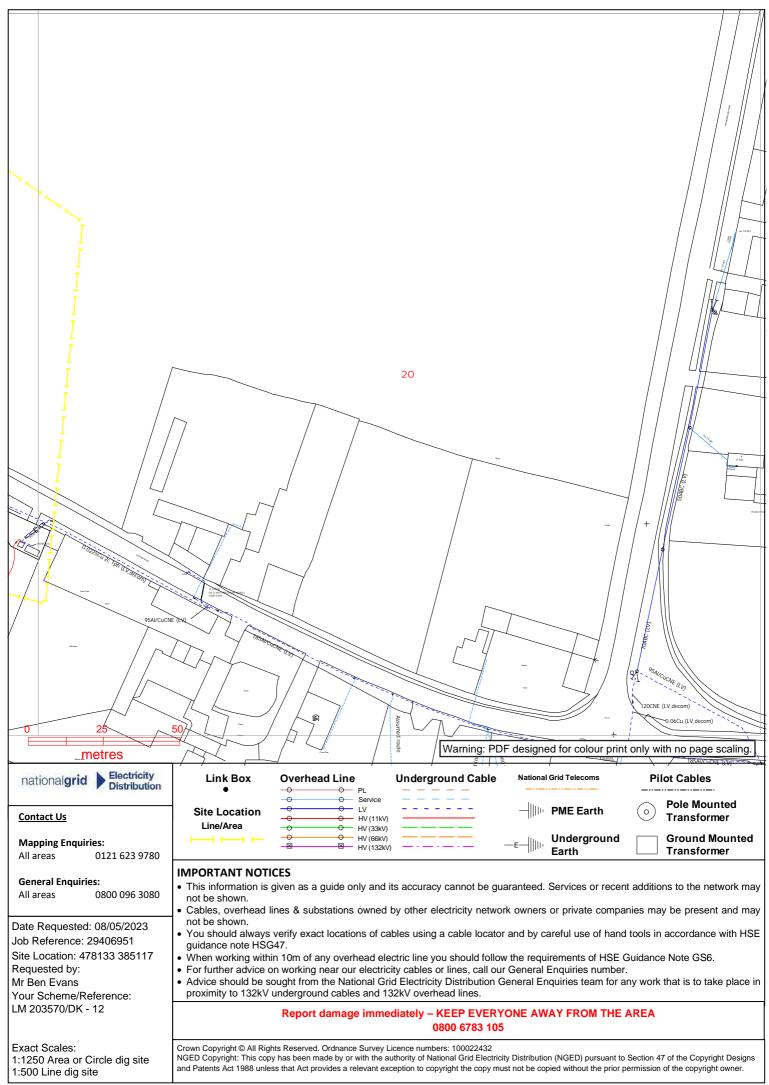
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Avoidance of danger from electricity overhead lines and underground cables

National Grid Electricity Distribution's information to manage safety whilst working in the vicinity of our equipment.



nationalgrid.co.uk

### Avoidance of danger from electricity overhead lines and underground cables

Every year in the UK on average, two people are killed and many more are injured when mechanical plant and machinery comes into contact or close proximity to overhead electricity lines.

Although electric shock is the first thing that people associate with coming into contact with our network, those who have witnessed the effects of damage to our system are shocked by the amount of heat, light and noise that are the result of an electrical flashover.

In the Midlands, South West and South Wales, National Grid Electricity Distribution (NGED) have had to attend to incidents where people have accidentally made contact with one of our live electricity overhead lines or damaged an underground cable and became seriously injured.

A significant number of these accidents occurred whilst people were working in the vicinity of overhead and underground electrical apparatus and this booklet has been produced to provide general guidance on how you and your employees can avoid becoming one of these statistics.



# **Planning your work**

It makes sense to consider your safety while in the vicinity of our equipment as early in your planning process as possible.

One of the first things you should do whenever you are planning your work is to check whether there is any of our equipment in the immediate vicinity. You should do this whether your work is taking place on public (e.g. highways and footpaths) or on private land.

Companies and organisations can request plans through LSBUD (Linesearch BeforeUdig) **Isbud.co.uk** – this site provides the same high quality plans and service that the NGED Webmap system has provided in the past, with the significant added benefit of searching over 40 other asset owners from a single query, including underground and overhead electricity networks, gas, high pressure fuel, water and fibre optic networks.

(Please note: not all asset owners are represented by LSBUD, and enquiries should also be made independently to all other relevant organisations).

This service allows you to request plans online and receive an information pack back via email within minutes. Domestic/private customers should request plans using the phone number, email or postal address shown at the bottom of this section.

For instance, take a good look around your site to see if there are any visible overhead lines.

You should also bear in mind that we have a very extensive network of underground cables, and we are always happy to supply a plan from our Map Response Team who can be contacted via the following;

#### Tel: 0121 623 9780 Email:

#### nged.mapresponse@nationalgrid.co.uk

It is always safer to assume that there are underground cables present in the ground until you have proven otherwise.

An online mapping service is available at: nationalgrid.co.uk/ our-network/check-before-you-dig-location-of-our-cables-and-equipment

# Working in the vicinity of underground cables

Having obtained copies of our network maps, it is important to recognise that in most cases there will be no surface indication of the presence of underground cables.



We therefore advise that you take the following actions:

- make sure that you have up-to-date copies of our cable record plans on site - not back in the office
- don't assume that these plans are to scale if they have been faxed or copied
- make sure that a competent person using a Cable Avoidance Tool (CAT) locates all of the cables shown on these plans
- mark the locations of cables on the ground surface with waterproof road paint or other permanent marker
- always assume that our cables are live unless we have informed you, in writing, otherwise
- by hand, dig trial holes to locate the exact position of all cables. Always use an insulated spade or shovel – never use a pick, fork or power tool – push the spade or shovel into the ground applying foot pressure
- look out for ducts, marker tape or tiles but do not rely on these.
   Even if a cable route was originally laid in a duct or with a marker tape, these may have been removed during other excavations at a later date along with all or part of the cable route
- brief all people working in the vicinity of the presence and location of all underground cables.

nationalgrid

### Under no circumstances should you attempt to work on, or interfere with, any of our underground cables

The only people qualified to work on this equipment are our operatives; who have been specifically trained and are authorised in writing to do so.

Please also be aware that:

- cable record plans are not guaranteed to be completely accurate. Kerb lines, roads and buildings may have been moved or altered since the cables were laid
- cables should ordinarily be at least 450mm deep, but don't assume this to be the case where you are working – ground levels could have changed
- not all service cables are shown on record plans, so look for cables running down poles and bear in mind that all buildings, street lights and street furniture are likely to have cables running to them. Cables feeding street furniture may be relatively shallow near to the furniture
- cables do not run in straight lines. They often "snake" through the ground avoiding surface and buried obstacles that may not be visible to you
- cables are flexible and can change direction and depth abruptly – for this reason never use mechanical excavators within 0.5m of any underground electricity cable even if you have located it with trial holes

- no attempt should be made to break out concrete surrounding a cable. Please contact us immediately on our general enquiries number and we will discuss the options for safe working which may include making the cable dead or you moving your work site if possible. If we need to make the cable dead we may need to provide our customers with two weeks notice of the power interruption
- our cables and joints are not designed to act as steps or to be left unsupported. If you remove support from any cable, you will need to support it using temporary hangers at not more than 0.5m intervals.
- when backfilling, please consolidate the ground under the cables, cover the cable with soil free of stones or with stone dust and replace any cable marker tiles, ducts and tape.

# If you damage an underground cable

You must immediately clear the area of personnel because the cable could still be live, or become live again.

If a machine is still in contact with the cable, instruct the driver to jump clear of the vehicle, avoiding simultaneous contact with any part of the machine and the ground. Try to land with your feet as close together as possible.

Where possible, continue to move away from the vehicle using "bunny hops" with your feet together until at least 15m from the vehicle.

Please contact us on our emergency number immediately and tell us what has happened. Please be ready to provide us with a contact telephone number and an accurate location or set of directions – this will help us in getting our staff to site quickly to minimise any danger and lessen the disruption to your work.

Incident locations can be hard to describe. Using the free What3Words app will enable us to quickly and easily identify where the incident has taken place across our network.

# CALL 105

Please report any damage to a cable, however superficial it might seem. The cable may not fail at the time of damage, but it could fail later, causing danger to our staff and other contractors, disruption to our customers' supplies, and also – if we trace the damage back to you – a large repair bill.

# Working in the vicinity of overhead lines

Under no circumstances should you attempt to work on, or interfere with any of our overhead line equipment or service wires.

The only people qualified to work on this equipment are our operatives; who have been specifically trained and are authorised in writing to do so. Overhead lines have the advantage that, unlike underground cables, they can easily be seen.

- Always assume that our overhead lines are live unless we have informed you otherwise in writing.
- We will be able to advise you about

the type and voltage of the overhead lines in question and provide you with information about the clearances that you must adhere to during your work. Please ring our regional general enquiries number for further advice.

• In some circumstances, we may be

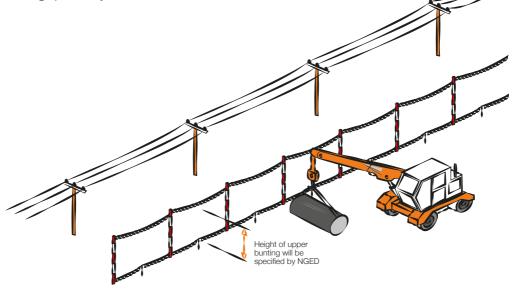
able to temporarily shroud low voltage overhead lines and services running to buildings if you need to work in the vicinity e.g. for scaffolding erection, fascia repairs and painting work on domestic properties. We don't normally charge for the shrouding of overhead lines, but please give us as much notice as possible.

- If you think that you will be working close to our overhead lines and they need shrouding – please don't start work until we have agreed what needs to be done and all safety precautions are in place.
- If you are in any doubt about whether the overhead lines in question are power or telephone (this is a very common mistake) – please ask us.
- Please note that it is not technically

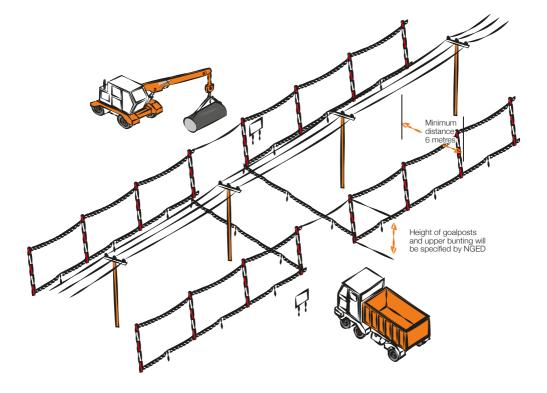
possible to shroud high voltage lines, so if you cannot avoid working near to our high voltage lines, contact us and we will be happy to meet with you to discus safe alternatives.

- If it is decided that work can go ahead in the vicinity of our overhead lines but there is a risk of you infringing the safety clearances from the overhead lines, you have a responsibility to erect safety barriers to segregate your works from the area around the overhead lines. The detailed requirements for these barriers are provided in the HSE document GS6 'Avoidance of Danger from Overhead Lines'. As a summary they should consist of:
  - red and white coloured posts erected at 6m intervals, with coloured bunting stretched between their tops, supplemented by low level bunting erected at 1m above ground level, supported at 3m intervals on red and white coloured posts. This is shown below.
- We are able to advise you on the height of the barriers and any additional clearances necessary if you are using large plant on your site.

- Any bunting, ropes and lanyards used should be made from an insulating material.
- These barriers should be erected parallel to the overhead line at a minimum distance of 6m horizontally from the outermost conductor of the overhead line.
- The supports may be supported by rubble or concrete filled barrels or buried directly in the ground.
- Danger notices should be fixed to all of your high level supports.
- The ground enclosed within these barriers is best regarded as "dead ground" in which all foot and vehicular traffic is forbidden, in all circumstances, for the duration of your work.

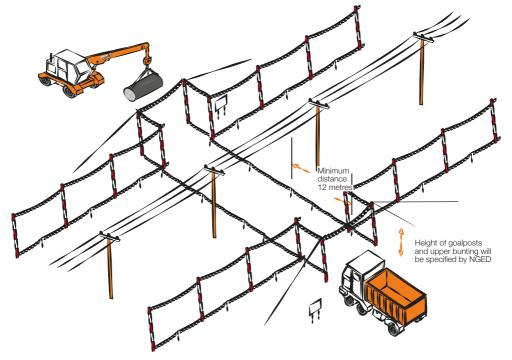


- Where it is necessary for foot and vehicular traffic to pass under the line, you will need to form a marked access way between the barriers as shown below.
- This access way should comprise of bunting erected 1m above ground, supplemented by high level "goal-posts" erected at either end.
- The goal post cross bars should be rigid, made of insulating material and positioned in a location and at a height specified by us.
- The access route should be as narrow as possible and should not normally exceed 10m in width.
- If it is necessary to make the access route wider than this, you may find it impractical to use rigid cross bars, so you may use a tensioned rope and bunting instead. If you use rope and bunting as a cross bar, you should move the entrance to the access route out to a minimum distance of 12m from the outermost conductor of the line. This is to allow for any stretching of the rope if pulled by your plant.



- If you decide to use steel wire rope to support the barrier, this must be effectively connected to earth at both ends.
- You should also install Danger Notices at all probable directions of approach and clearly display the cross bar height.
- Whatever measures you take, you should ensure that everyone working in the vicinity of overhead lines is briefed about the risks and what safety measures are in place. Do not permit anyone to carry long objects, especially scaffold poles, ladders and irrigation pipes in the vicinity of overhead lines.
- If you are working at night, or in conditions or poor visibility, you should ensure the area is well lit and that the overhead lines are clearly visible.
- You should ensure that all shrouding, barriers and signs are regularly inspected and maintained so that they remain effective.

- Overhead lines are not normally insulated and electricity at high voltages may jump, so a dangerous situation can arise just from a close approach.
- Cranes and excavators working near overhead lines are at increased risk because of the possibility of the jib/arm slewing or being raised into the overhead line, or the load swinging into the overhead line. You may therefore also need to fit plant and vehicles with restricting chains etc. to physically restrain their operation – we can advise on this if you wish.
- If you are planning to carry out tree cutting or arboriculture work in the vicinity of our overhead lines, you need to be aware that this is a complex, high risk activity and we recommend that you employ a competent tree surgeon, who complies with all of the requirements of Forestry industry Safety Accord (FISA) publication FISA 804 - Electricity at work: Forestry.



## If contact is made with an overhead line

You must immediately clear the area and suspend all work within 50m of the damage because the line could still be live, or become live again. The operator of a machine that is in contact with an overhead line should:

# • If the machine is still operable and the operator is still in the cab:

- provided that you do not risk breaking the overhead line or dragging it to the ground, immediately lower the raised parts of the machine using only the controls in the cab and/or drive the vehicle clear of the overhead line
- contact us immediately on our emergency number so that we can check the overhead lines
- instruct other people in the vicinity not to approach the vehicle.

#### • If the machine is not operable, cannot be driven clear of the overhead line or there is a risk that doing so will break the line or drag it to the ground:

- stay in the cab
- contact your site manager or us immediately on our emergency number by radio or mobile phone or as soon as possible by any other method
- instruct everyone outside the vehicle not to approach it
- do not exit the cab until given confirmation by wpd personnel that it is safe to do so.

- If the machine is inoperable or cannot be driven free and there is risk of fire or other immediate hazard:
  - jump clear of the vehicle, avoiding simultaneous contact with any part of the machine and the ground
  - try to land with your feet as close together as possible
  - where possible, continue to move away from the vehicle jumping with both feet together until at least 15m from the vehicle. Instruct other people in the vicinity not to approach the vehicle. Contact us immediately on our emergency number
  - do not return to the vehicle until given confirmation by wpd personnel that it is safe to do so.

Whatever the circumstances please contact us on our emergency number immediately and tell us what has happened. Please be ready to provide us with a contact telephone number and an accurate location or set of directions – this will help us in getting our staff to site quickly to minimise any danger and lessen any disruption to your work.



Please report any damage or contact no matter how minor they may seem to you at the time. The damage may not cause a serious problem at the time of damage, but it could fail later, causing danger to our staff and members of the public, disruption to our customers' supplies, and – if we trace the damage back to you – a large repair bill.

### **More information**

For your information, we are legally obliged to report all contact with our system to the Health and Safety Executive (HSE), and, if you are an employer, you may be obliged to report incidents involving your staff or contractors to the HSE.

Even if no one is hurt, you could be prosecuted for failing to report such an incident.

More detailed general information on this subject is available in the following publications from the HSE:

- HSG(47) Avoiding Danger from Underground Services
- GS6 Avoidance of Danger from Overhead Lines
- along with Forestry Industry Safety Accord (FISA) publication FISA 804 – Electricity at Work: Forestry

If you require more site-specific information relating to our equipment at your location please contact us on our general enquiry number:

Our general enquiry number is: **0800 096 3080** 

National Grid Electricity Distribution plc Avonbank Feeder Road Bristol BS2 0TB United Kingdom

#### nationalgrid.co.uk

## Finally

Please, always remember that electricity cables and overhead lines can be very dangerous – the general rule is **stay away and stay safe**.

# Look out, look up!

National Grid Electricity Distribution's guide to the safe use of mechanical plant in the vicinity of electricity overhead lines



# The safe use of mechanical plant in the vicinity of electricity overhead lines

#### Every year in the UK on average, two people are killed and many more are injured when mechanical plant and machinery comes into contact or close proximity to overhead electricity lines.

This booklet has been produced for anyone who uses mobile plant, (such as Hiabs, MEWPs, tipper lorries and trailers, grab lorries, concrete conveyors and excavators) for short duration work and provides general guidance on how to avoid becoming part of these statistics.

### 1 Before starting work

Overhead lines have the advantage that they can easily be seen, so before you set up your vehicle or plant always:

#### Stop and look up!



or in conditions of poor visibility, you should use spotlights or a torch to carefully check that there are no overhead lines within your vehicle's reach. If you are in any doubt about whether the lines in question

whether the lines in question are power or telephone (this is a very common mistake) – always assume that they are power lines and are live.

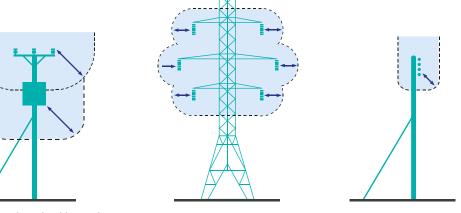


It is not normally practical for electricity companies to shroud high voltage conductors and even when low voltage conductors are shrouded, the shrouding is not designed to protect against contact by mechanical plant – again, always assume the lines are live.

### 2 Exclusion zones

Overhead power lines are not normally insulated and so any contact can result in serious or fatal injuries. Electricity at high voltages can also jump gaps with no warning whatsoever, so it is also dangerous to let your plant approach too close to a line. The distance that electricity can jump depends on the voltage of the line. The higher the voltage, the further you must stay away from the line and any other equipment that may be fitted to the pole or pylon. This distance is called the **exclusion zone**. Examples of this are shown highlighted in the diagram below.

#### Exclusion zones are shown in blue



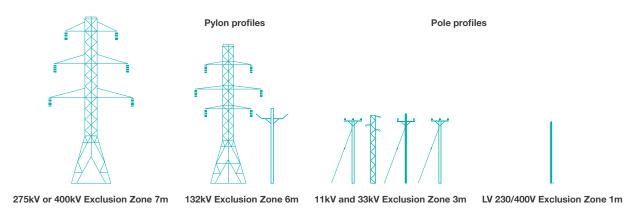
Exclusion zones for pole with transformer

Exclusion zone high voltage (HV)

Exclusion zone low voltage (LV)

You must not allow any part of your plant to enter the **exclusion zone**. The diagram below shows typical types of overhead lines and provides a guide to help

you assess the line voltage of lines on wooden poles or steel pylons. The minimum **exclusion zone distance** is shown for each example.



Please note that these are absolute minimum distances that should under no circumstances be infringed. If you do – it could prove fatal. As well as staying away from the lines or equipment, you should also stay at least 600mm away from any part of poles, pylons and stay wires. Please remember that is for guidance only, and if you are in any doubt, please call us for advice before setting up your plant or starting work.

### 3 Stand off distances

If there are power lines in the vicinity of your work the best way to make sure you stay out of the **exclusion zone** is to position your vehicle at a **safe stand off distance** so that, even when fully extended, no part of it can accidentally reach inside the **exclusion zone**.

This **safe stand off distance** can be calculated by adding the **exclusion zone** distance for the appropriate voltage of the line to the **maximum operating reach** of your vehicle.

#### This is shown in the diagram opposite.

If you position your vehicle outside of the **safe stand off distance**, there is no risk of accidental contact with the lines and no danger of electricity jumping from the line to your vehicle.

If you cannot achieve a **safe stand off distance**, consider moving your vehicle to a safer location.

It may make your job a bit more difficult, but if it means you stay away from the **exclusion zone** - it will be safer.

The next best option would be to consider using smaller plant with a **maximum operating reach** that cannot enter the **exclusion zone**.

You may not be able to achieve either of these options, so, as a last resort, if you cannot avoid operating large items of plant in the vicinity of lines, you must make sure that the plant is fitted with restraints to ensure that the **exclusion zone** cannot be entered.

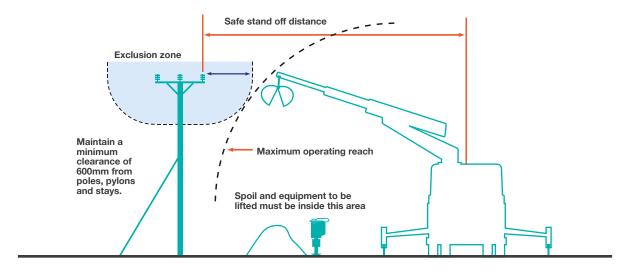
These restraints may be electrical or hydraulic systems fitted to the plant, or mechanical devices such as chains.

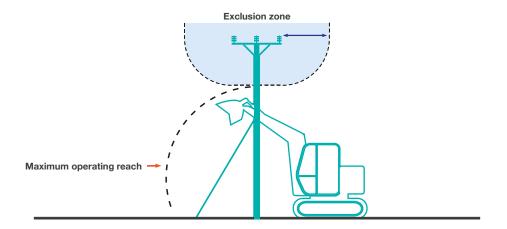
Please seek advice from the plant manufacturer for more information on choices available for your particular item of plant. If you are using a mechanical excavator to dig parallel to the line, it is good practice to position the excavator with the tracks or wheels parallel to the line, so as you move along the excavation the safe stand off distance is easily maintained.

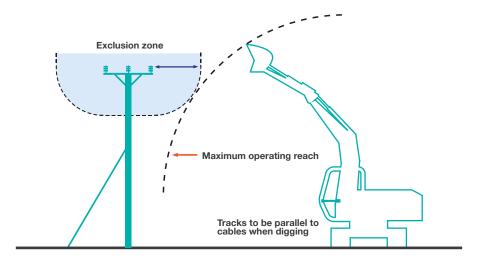
Care must also be taken to avoid non mechanical equipment, (e.g. scaffold poles, ladders and long loads such as lengths of steel or timber) from entering the exclusion zone.

Always maintain at least 600mm clearance from your plant to any of our poles, stay wires or pylons. Any contact with these by your plant could cause the line to break and fall to the ground.









### 4 Emergency procedures

If contact is made with an overhead line, you must immediately clear the area and suspend all work within 50m of the damage because the line could still be live, or become live again.

The operator of a machine that is in contact with an overhead line should take the following steps:

#### If the machine is still operable:

 lower any raised parts that are controlled from the driving position and/or drive the vehicle clear of the line, as long as neither of these actions risk breaking the line or dragging it to the ground.

#### If the machine is not operable or cannot be driven clear of the line:

- stay in the cab
- contact your site manager or us immediately by radio or mobile phone or as soon as possible by any other method
- instruct everyone outside the vehicle not to approach it
- do not exit the cab until given confirmation by National Grid Electricity Distribution personnel that it is safe to do so.

#### If the machine is inoperable or cannot be driven free and there is risk of fire or other immediate hazard:

- jump clear of the vehicle, avoiding simultaneous contact with any part of the machine and the ground
- try to land with your feet as close together as possible
- where possible, continue to move away from the vehicle using "bunny hops" with your feet together until at least 15m from the vehicle
- instruct other people in the vicinity not to approach the vehicle
- do not return to the vehicle until given confirmation by National Grid Electricity Distribution personnel that it is safe to do so.

#### Whatever the circumstances please contact us on our emergency number immediately and tell us what has happened.

Please be ready to provide us with a contact telephone number and an accurate location or set of directions – this will help us in getting our staff to site quickly to minimise any danger and to reduce any disruption to your work.

# Our emergency number is: 105 or 0800 6783 105

Please report any damage or contact no matter how minor they may seem to you at the time.

Whilst the damage may not cause a serious problem at the time of contact it could fail later, causing danger to our staff and members of the public, disruption to our customer's supplies, and – if we trace the damage back to you – a larger repair bill!

# CALL 105

### 5 More information

Proximity Warning Systems (such as Wire Watcher – see wirewatcher.co.uk for information) may be fitted to your vehicle. Never turn these devices off or disable them in any way.

Take note of any warnings these proximity warning systems may provide but do not use the presence of such devices as a reason not to follow the advice provided in this leaflet.

For your information, we are legally obliged to report all contact with our system to the Department of Trade and Industry (DTI), and, if you are an employer, you may be obliged to report incidents involving your staff or contractors to the Health & Safety Executive (HSE). Even if no one is hurt, you could still find yourself being prosecuted for causing a dangerous occurrence.

### 6 Further reading

For advice related to signing and guarding at longer term work sites please also refer to National Grid Electricity Distribution booklet "Avoidance of Danger from Electricity Overhead Lines and Underground Cables". More detailed information is also published in the following documents available from the HSE.

GS6 – Avoidance of Danger from Overhead Lines.

HS(G) 47 – Avoiding Danger from Underground Services.

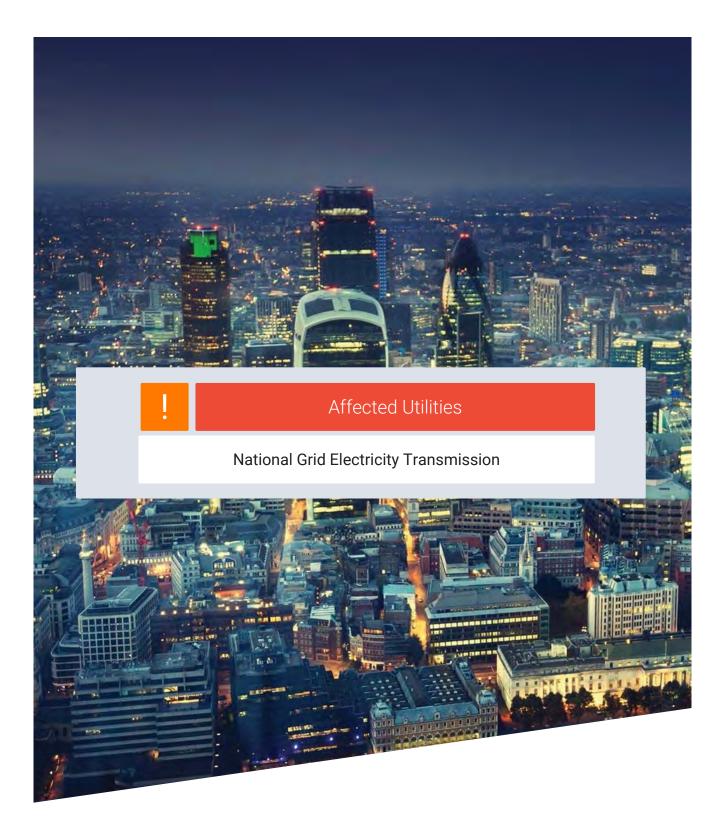
Along with Forestry Industry Safety Accord (FISA) publication **FISA 804** - **Electricity at Work: Forestry.**  If you require more site-specific information relating to our equipment at your location please contact us on the relevant **general enquiries number:** 

# 0800 096 3080

**Finally**... please, always remember that electricity overhead lines can be very dangerous – **the general rule is stay away and stay safe!** 

National Grid Electricity Distribution plc Avonbank Feeder Road Bristol BS2 0TB United Kingdom

nationalgrid.co.uk







Our Ref: 29406934 LM 203570/DK - 1

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West

Bristol BS32 4RZ



National Grid House Warwick Technology Park Gallows Hill, Warwick CV34 6DA

Electricity Emergency Number: 0800 40 40 90\* \*Available 24 hours, 7 days/week. Calls may be recorded and monitored. www.nationalgrid.com

Asset Protection Gas Transmission National Grid Warwick Email: assetprotection@nationalgrid.com

#### National Grid Electricity – Moderate Response Letter

Dear Sir/ Madam,

An assessment has been carried out with respect to National Grid Electricity Transmission plc's apparatus and the proposed work location. Based on the location entered into the system for assessment the area has been found to be outside the High Risk zone from National Grid Electricity Transmission plc's apparatus and can proceed. Should the work area change or type of activity being undertaken, a new enquiry must be submitted for assessment.

Please carefully read the guidance notes on the next pages.

You will have received cable route drawings if your enquiry is located within the Medium Risk zone from National Grid Electricity Transmission buried assets. Please familiarise yourself with the location of these assets and should the works location change a new enquiry must be submitted for assessment.

Please note this response and any attached map(s) are valid for 28 days from the date of this letter.

Yours sincerely

**Asset Protection Team** 



#### Your Responsibilities and Obligations

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

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

This assessment solely relates to National Grid Electricity Transmission plc (NGET)

This assessment does **NOT** include:

• National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact Asset Protection.

- Recently installed apparatus
- National Grid Gas plc.

• Apparatus owned by other organisations, e.g. Cadent, other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid Electricity Transmission plc easements or wayleaves nor any planning or building regulations applications.

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

If you require further assistance please contact the Asset Protection team via e-mail (assetprotection@nationalgrid.com) or via the contact details at the top of this response.



#### **GUIDANCE**

#### National Grid Electricity Transmission Network data

• The Network map for National Grid Electricity Transmission assets can be downloaded at the following link in GIS format.

https://www.nationalgrid.com/uk/electricity-transmission/network-and-infrastructure/network-route-maps

#### **Overhead Lines**

- National Grid's Overhead Line/s is protected by a Deed of Easement/Wayleave Agreement which provides full right of access to retain, maintain, repair and inspect our asset.
- The submitted proposed design does not change after the date of this letter. Any design change that moves the proposal closer to National Grid Overhead Line Assets shall be submitted for assessment.
- Statutory electrical safety clearances shall be maintained at all times. National Grid recommends that no permanent structures are built directly beneath our overhead lines. These distances are set out in EN 43 8 Technical Specification for "Overhead Line Clearances Issue 5 (2019). To purchase & download EN 43 8 Technical Specification for "Overhead Line Clearances Issue 5 (2019) go to https://www.ena-eng.org/ENA-Docs/
- Any changes in ground levels which are proposed either beneath or in close proximity to our existing overhead lines would serve to reduce safety clearances. Safety clearances to existing overhead lines must be maintained in all circumstances.
- To view the Development Near Overhead Lines Document. https://www.nationalgridet.com/document/130626/download
- To view the National Grid Third Party Guidance for working near National Grid Electricity Transmission equipment.

https://www.nationalgridet.com/sites/et/files/documents/Working%20near%20electricity%20equipment.pd f

- The relevant guidance in relation to working safely near to existing overhead lines is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance Note GS 6 "Avoidance of Danger from Overhead Electric Lines."
- If a landscaping scheme is proposed as part of the proposal, only slow and low growing species of trees and shrubs shall be planted beneath and adjacent to the existing overhead line to reduce the risk of growth to a height which compromises statutory safety clearances.
- Drilling or excavation works shall not be undertaken if they have the potential to disturb or adversely affect the foundations or "pillars of support" of our towers. These foundations extend beyond the base of the tower. Pillar of Support drawings shall be obtained using the contact details above.
- Due to the scale, bulk and cost of the transmission equipment required to operate at 275kV or 400kV we only support proposals for the relocation of existing high voltage overhead lines where such proposals directly facilitate a major development or infrastructure project of national importance which has been identified as such by government.
- To promote the successful development of sites crossed by existing overhead lines, and the creation of welldesigned places, National Grid has produced 'Design guidelines for development near pylons and high voltage overhead power lines', which look at how to create high quality development near overhead lines and offer practical solutions which can assist in avoiding the unnecessary sterilisation of land in the vicinity of high voltage overhead lines.



• Further information regarding our undergrounding policy and development near transmission overhead lines is available on our website at: https://www.nationalgridet.com/network-and-assets/planning-and-development

#### **Buried Cables**

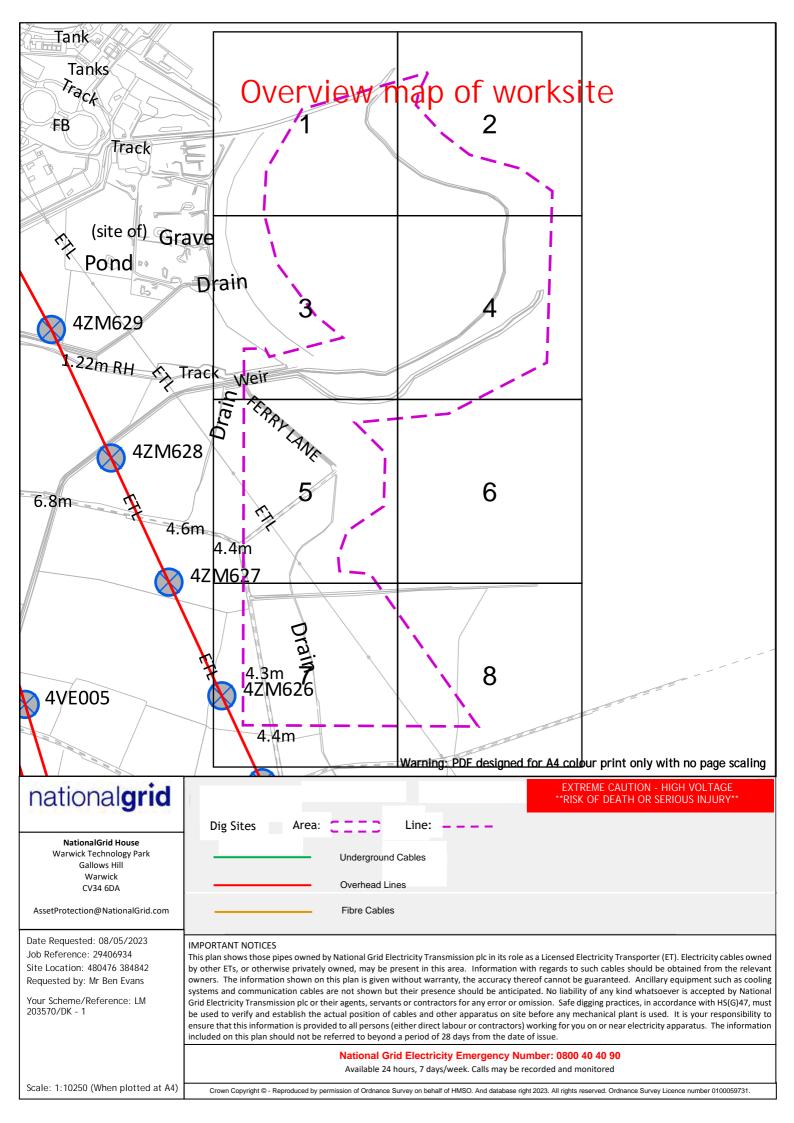
- National Grid's underground cables are protected by a Deed of grant; Easement; Wayleave Agreement or the provisions of the New Roads and Street Works Act. Which provide full right of access to retain, maintain, repair and inspect our asset. Hence we require that no permanent structures are to be built over our cables or within the easement strip.
- Ground levels above our cables must not be altered in any way. Any alterations to the depth of our cables
  will subsequently alter the rating of the circuit and can compromise the reliability, efficiency and safety of
  our electricity network.
- The supplied detailed route records should not be taken as positive indication of the cable location. This can only be determined by digging trial holes. Where trial holes are dug the concrete and / or polymeric cable protection tiles must not be disturbed.
- The normal recommendation is to keep 2 metres clear either side of the 1 metre wide trench containing the AC cable.
- National Grid should be made aware of the works starting and may put in place a representative to monitor the works. The works should be carried out in accordance with the recommendations in document HS (G) 47 available from the HSE web site.
- The relocation of existing underground cables is not normally feasible on grounds of cost, operation and maintenance and environmental impact and we believe that successful development can take place in their vicinity.
- The information supplied is given in good faith and only as a guide to the location of our underground cables. The accuracy of this information cannot be guaranteed. The physical presence of such cables may also be evident from physical protection measures such as ducts or concrete protection tiles. The person(s) responsible for planning, supervising and carrying out work in proximity to our cable(s) shall be liable to us, as cable(s) owner, as well as to any third party who may be affected in any way by any loss or damage resulting from their failure to locate and avoid any damage to such a cable(s).
- The relevant guidance in relation to working safely near to existing underground cables is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance HS(G)47 "Avoiding Danger From Underground Services" and all relevant site staff should make sure that they are both aware of and understand this guidance.
- Our cables are normally buried to a depth of 0.9 metres to the protective covers but this depth can vary depending on location (bridges may have cables 100mm below surface level)..The specific cable route record drawings show further details along the route of the particular cable. The cable route drawings are attached to this letter for your information.
- Cables installed in cable tunnels, whilst less likely to be affected by surface or shallow works may be affected by activities such as piling.
- National Grid assets can be adversely affected by vibration and can provide guidance on the acceptable levels of vibration due to piling and other construction related operations in the vicinity of national grid assets
- Ground cover above our cables should not be reduced or increased without consultation with National Grid.

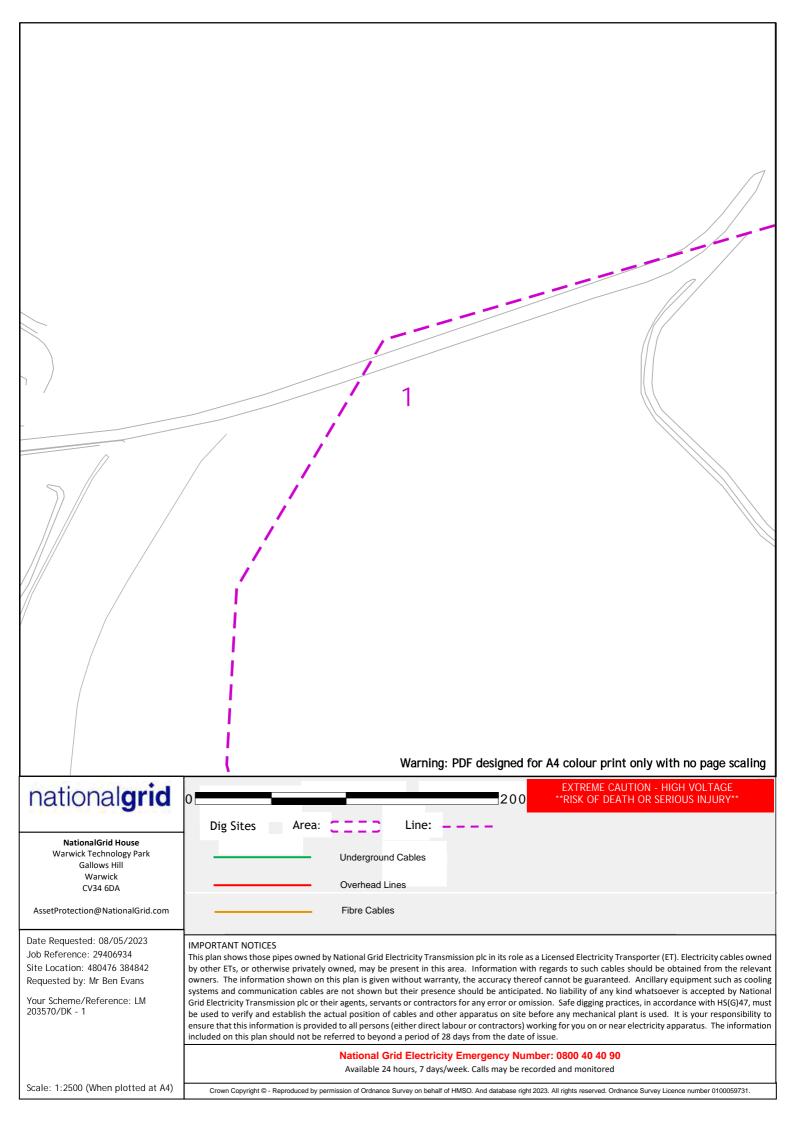
• If a landscaping scheme is proposed as part of the works, we request that no trees and shrubs are planted either directly above or within 3 metres of the existing underground cable, as ultimately the roots may grow to cause damage to the cable.

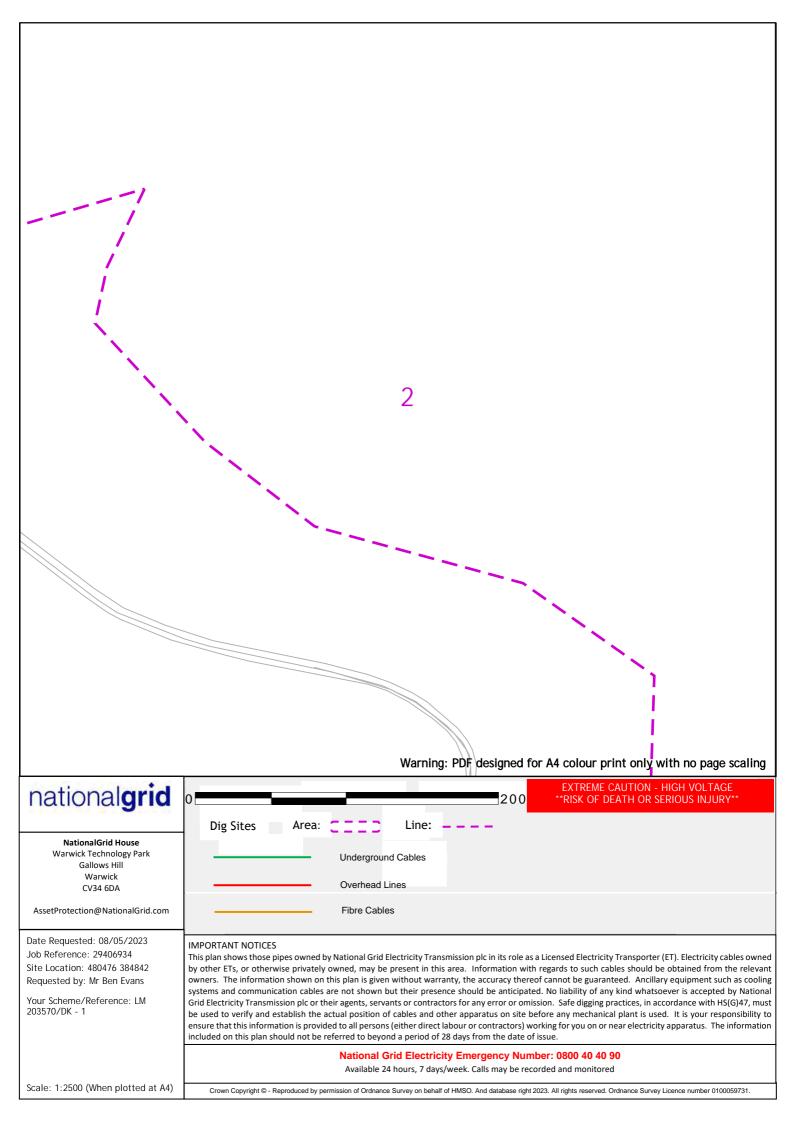
before

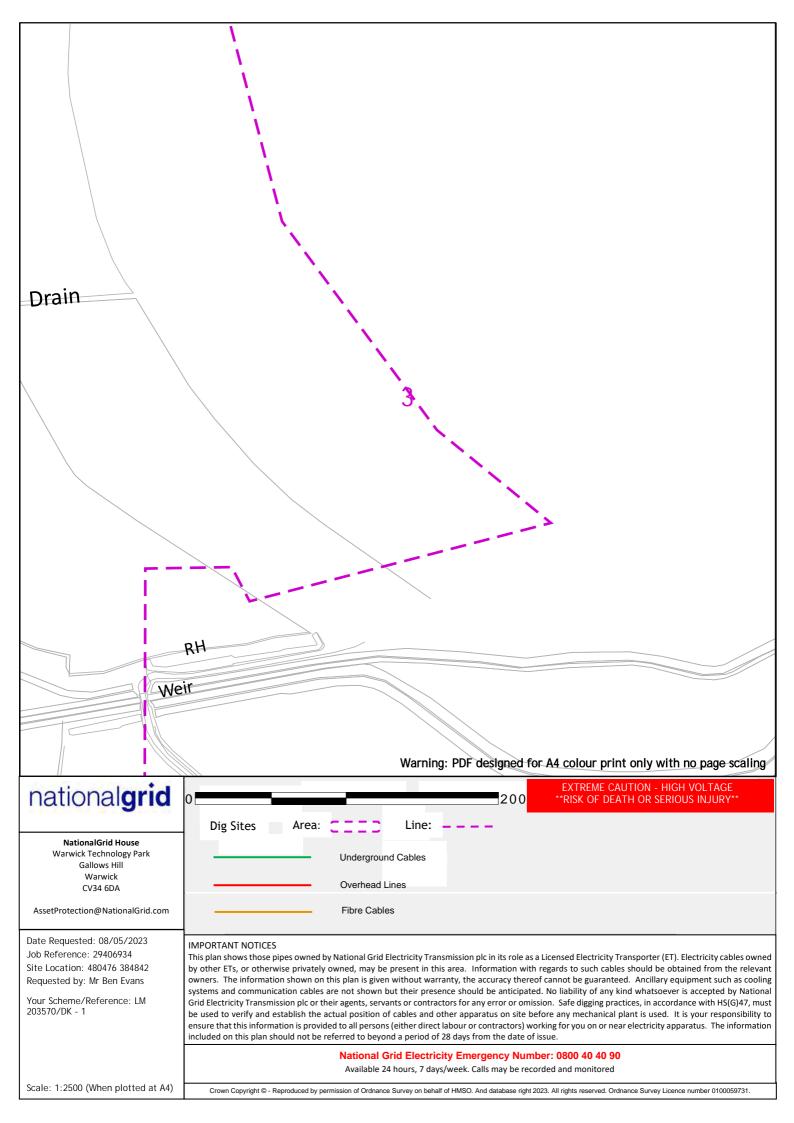
#### **Cables Tunnels**

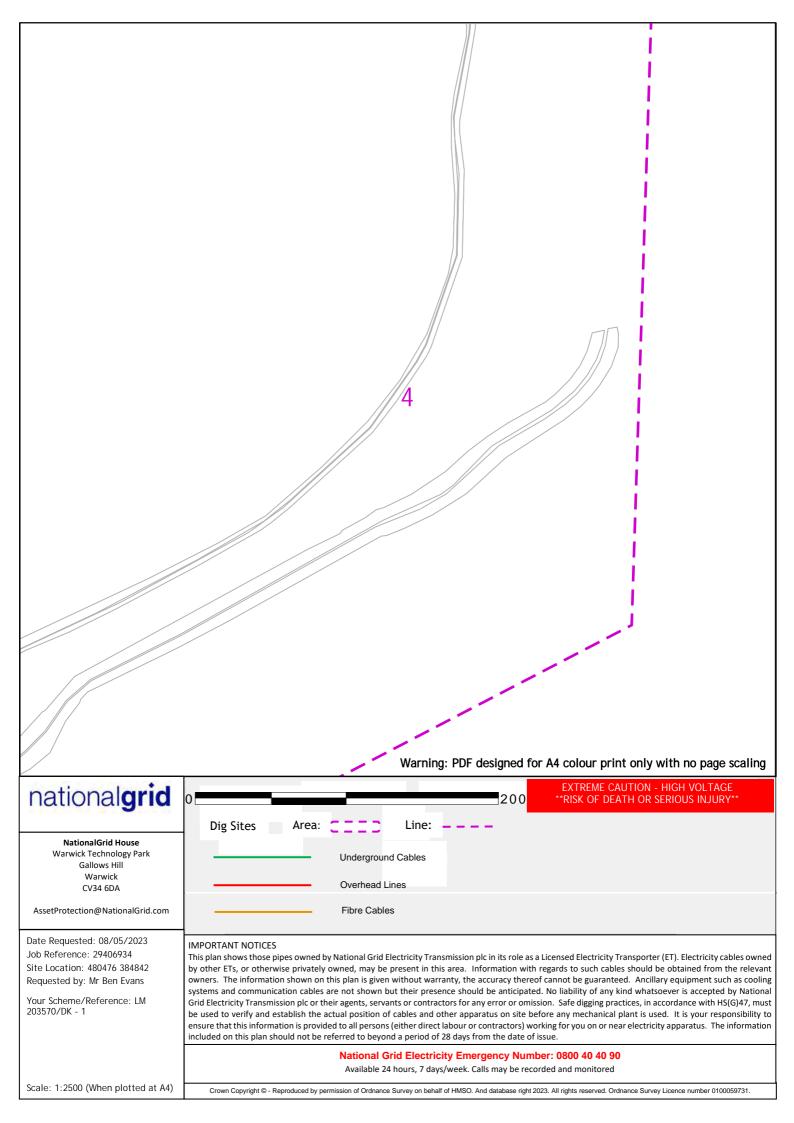
- National Grid's underground cable tunnels are protected by the provisions of a Wayleave/Easement or the New Roads and Street Works Act. This provides full right of access to retain, maintain, repair and inspect our asset.
- Further information and guidance regarding National Grid Cable Tunnels is available on our website at https://www.nationalgrid.com/uk/electricity-transmission/document/121061/download
- National Grid requires that the clearances indicated in the guidance document linked above are maintained at all times. Should it be necessary to enter the exclusion zone discussion/ agreement with National Grid is required to ensure the integrity of their tunnel asset and the high voltage cables is not compromised.
- Ground levels above our cable tunnels must not be altered in any way without prior agreement with National Grid; any alterations to the depth of our tunnels can compromise its integrity which could have an adverse impact on the reliability, efficiency and safety of our electricity network.
- Any works which would create high levels of vibration such as piling would need to be assessed by National Grid to ensure it has limited impact on our cable tunnels. National Grid can advise on acceptable vibration limits.

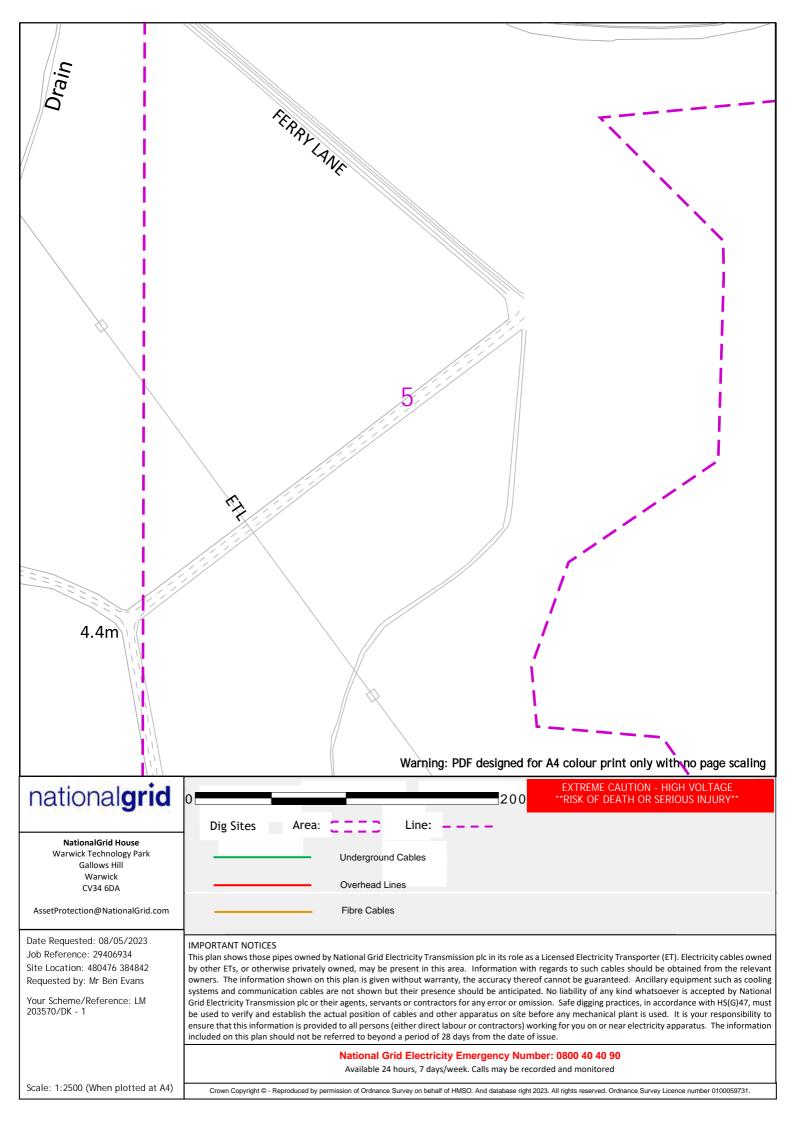








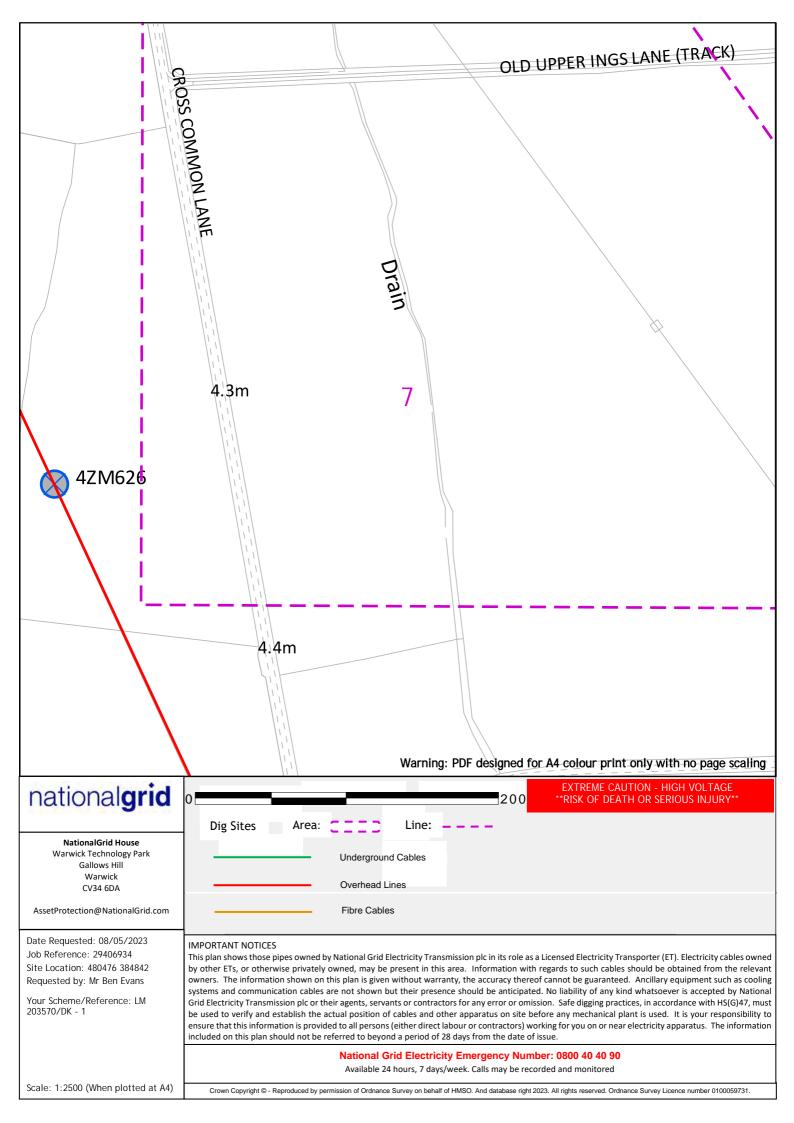


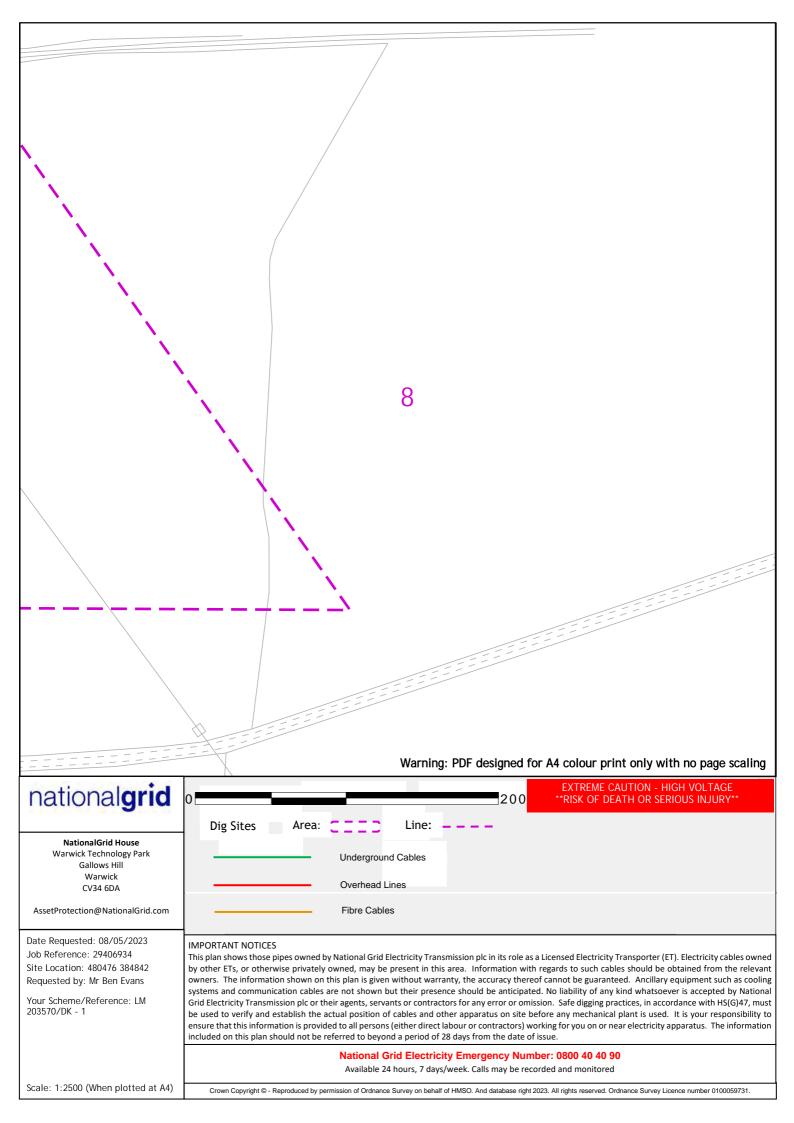


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national <b>grid</b>	0 EXTREME CAUTION - HIGH VOLTAGE **RISK OF DEATH OR SERIOUS INJURY**
	Dig Sites Area:
<b>NationalGrid House</b> Warwick Technology Park Gallows Hill Warwick CV34 6DA	Underground Cables Overhead Lines
AssetProtection@NationalGrid.com	Fibre Cables
Date Requested: 08/05/2023 Job Reference: 29406934 Site Location: 480476 384842 Requested by: Mr Ben Evans Your Scheme/Reference: LM 203570/DK - 1	IMPORTANT NOTICES This plan shows those pipes owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned by other ETs, or otherwise privately owned, may be present in this area. Information with regards to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of cables and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.
	National Grid Electricity Emergency Number: 0800 40 40 90 Available 24 hours, 7 days/week. Calls may be recorded and monitored
Scale: 1:2500 (When plotted at A4)	Crown Copyright © - Reproduced by permission of Ordnance Survey on behalf of HMSO. And database right 2023. All rights reserved. Ordnance Survey Licence number 0100059731.

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## **ENQUIRY SUMMARY**

Received Date 08/05/2023 9:33

Work Start Date 30/05/2023

Your Reference LM 203570/DK - 1

Location Centre Point: 480476 384842 X Extent: Y Extent: Postcode: DN229HH

## Map Options Paper Size: A4 Orientation: PORTRAIT Scale: 1:2500

Real World Extents: 838m x 1773m

Enquirer Details Organisation Name: Atkins - Utility Solutions Contact Name: Ben Evans Email Address: searches.utilitysolutions@atkinsglobal.com Telephone: 01454662086 Address: The Hub, 500 Park Avenue, Aztec West, , Bristol, BS32 4RZ

Enquiry Type Initial Enquiry Activity Type Utility Works Work Types Single excavations site (deeper than 1.5m)

### Notes/Works Description (if supplied)

## Site Contact Name (if supplied)

Site Contact Number (if supplied)



Our Ref: 29406935 LM 203570/DK - 2

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West

Bristol BS32 4RZ



National Grid House Warwick Technology Park Gallows Hill, Warwick CV34 6DA

Electricity Emergency Number: 0800 40 40 90\* \*Available 24 hours, 7 days/week. Calls may be recorded and monitored. www.nationalgrid.com

Asset Protection Gas Transmission National Grid Warwick Email: assetprotection@nationalgrid.com

#### National Grid Electricity – High Risk Response Letter

Dear Sir/ Madam,

An assessment has been carried out with respect to National Grid Electricity Transmission plc's apparatus and the proposed work location. Based on the location entered into the system for assessment the area has been found to be within the High Risk zone from National Grid Electricity Transmission plc's apparatus and **Must Not Proceed** without further assessment by Asset Protection.

Could you please send a works description (including how deep you are excavating) and any plans including any commencement dates to the following email address assetprotection@nationalgrid.com including the LSBUD enquiry reference number.

Failure to provide this information will result in a delay to your works being assessed.

Please note this response and any attached map(s) are valid for 28 days from date of this letter. A new enquiry will need to be submitted into LSBUD if the requested information above is not supplied within 28 days.

Yours sincerely,

**Asset Protection** 



## Your Responsibilities and Obligations

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

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

This assessment solely relates to National Grid Electricity Transmission plc (NGET)

This assessment does **NOT** include:

• National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact Asset Protection.

- Recently installed apparatus
- National Grid Gas plc.

• Apparatus owned by other organisations, e.g. Cadent, other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid Electricity Transmission plc easements or wayleaves nor any planning or building regulations applications.

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

If you require further assistance please contact the Asset Protection team via e-mail (assetprotection@nationalgrid.com) or via the contact details at the top of this response.



## Assessment

#### Affected Apparatus

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

• Electricity Transmission Overhead Line apparatus.

#### Requirements

#### **Over Head Lines**

BEFORE carrying out any work you must:

(N.B. Works only to be undertaken when contact has been made and response received from Asset Protection) - Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.

- Contact the landowner and ensure any proposed works in private land do not infringe National Grid Electricity Transmission plc's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.

- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid Electricity Transmission plc's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at www.hse.gov.uk

- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

DURING any work you must:

- Comply with all guidance for working within the vicinity of overhead lines as detailed within the guidance documents listed below.

- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.

- Ensure that access to National Grid Electricity Transmission plc's apparatus is maintained at all times.

- Prevent the placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over National Grid Electricity Transmission plc's apparatus unless specifically agreed with National Grid Electricity Transmission plc's apparatus in advance.

- Exercise extreme caution if slab (mass) concrete is encountered during excavation works as this maybe protecting or supporting National Grid Electricity Transmission plc's apparatus.

### **Underground Cables**

BEFORE carrying out any work you must:

(N.B. Works only to be undertaken when contact has been made and response received from Asset Protection)

- Refer to the attached cable profile drawings which provide details about the location of National Grid's high voltage underground cables.

- Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.

- Contact the landowner and ensure any proposed works in private land do not infringe infringe National Grid Electricity Transmission plc's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.

- Ensure that all persons, including direct labour and contractors, working for you on or near infringe National Grid Electricity Transmission plc's follow the requirements of the HSE Guidance Notes HS(G)47 "Avoiding Danger From Underground Services". This guidance can be downloaded free of charge at www.hse.gov.uk

- In line with the above guidance, verify and establish the actual position of mains, pipes, cables,





services and other apparatus on site before any activities are undertaken.

DURING any work you must:

- Comply with all guidance for working within the vicinity of Electricity Underground Cables as detailed within the guidance documents listed below.

- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.

- Ensure that access to National Grid Electricity Transmission plc's apparatus is maintained at all times.

- Prevent the placing of heavy construction plant, equipment, materials or the passage of heavy

vehicles over National Grid Electricity Transmission plc's apparatus unless specifically agreed with National Grid Electricity Transmission plc's in advance.

- Exercise extreme caution if slab (mass) concrete is encountered during excavation works as this maybe protecting or supporting National Grid Electricity Transmission plc's apparatus.



## **GUIDANCE**

### National Grid Electricity Transmission Network data

• The Network map for National Grid Electricity Transmission assets can be downloaded at the following link in GIS format.

https://www.nationalgrid.com/uk/electricity-transmission/network-and-infrastructure/network-route-maps

### **Buried Cables**

- National Grid's underground cables are protected by a Deed of grant; Easement; Wayleave Agreement or the provisions of the New Roads and Street Works Act. Which provide full right of access to retain, maintain, repair and inspect our asset. Hence we require that no permanent structures are to be built over our cables or within the easement strip.
- Ground levels above our cables must not be altered in any way. Any alterations to the depth of our cables will subsequently alter the rating of the circuit and can compromise the reliability, efficiency and safety of our electricity network.
- The supplied detailed route records should not be taken as positive indication of the cable location. This can only be determined by digging trial holes. Where trial holes are dug the concrete and / or polymeric cable protection tiles must not be disturbed.
- The normal recommendation is to keep 2 metres clear either side of the 1 metre wide trench containing the AC cable.
- National Grid should be made aware of the works starting and may put in place a representative to monitor the works. The works should be carried out in accordance with the recommendations in document HS (G) 47 available from the HSE web site.
- The relocation of existing underground cables is not normally feasible on grounds of cost, operation and maintenance and environmental impact and we believe that successful development can take place in their vicinity.
- The information supplied is given in good faith and only as a guide to the location of our underground cables. The accuracy of this information cannot be guaranteed. The physical presence of such cables may also be evident from physical protection measures such as ducts or concrete protection tiles. The person(s) responsible for planning, supervising and carrying out work in proximity to our cable(s) shall be liable to us, as cable(s) owner, as well as to any third party who may be affected in any way by any loss or damage resulting from their failure to locate and avoid any damage to such a cable(s).
- The relevant guidance in relation to working safely near to existing underground cables is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance HS(G)47 "Avoiding Danger From Underground Services" and all relevant site staff should make sure that they are both aware of and understand this guidance.
- Our cables are normally buried to a depth of 0.9 metres to the protective covers but this depth can vary depending on location (bridges may have cables 100mm below surface level)..The specific cable route record drawings show further details along the route of the particular cable. The cable route drawings are attached to this letter for your information.
- Cables installed in cable tunnels, whilst less likely to be affected by surface or shallow works may be affected by activities such as piling.
- National Grid assets can be adversely affected by vibration and can provide guidance on the acceptable levels of vibration due to piling and other construction related operations in the vicinity of national grid assets

Ground cover above our cables should not be reduced or increased without consultation with National Grid.
National Grid is a trading name for:
National Grid Electricity Transmission plc
Registered Office: 1-3 Strand, London WC2N 5EH
Registered in England and Wales, No 2366977

 If a landscaping scheme is proposed as part of the works, we request that no trees and shrubs are planted either directly above or within 3 metres of the existing underground cable, as ultimately the roots may grow to cause damage to the cable.

before

### **Cables Tunnels**

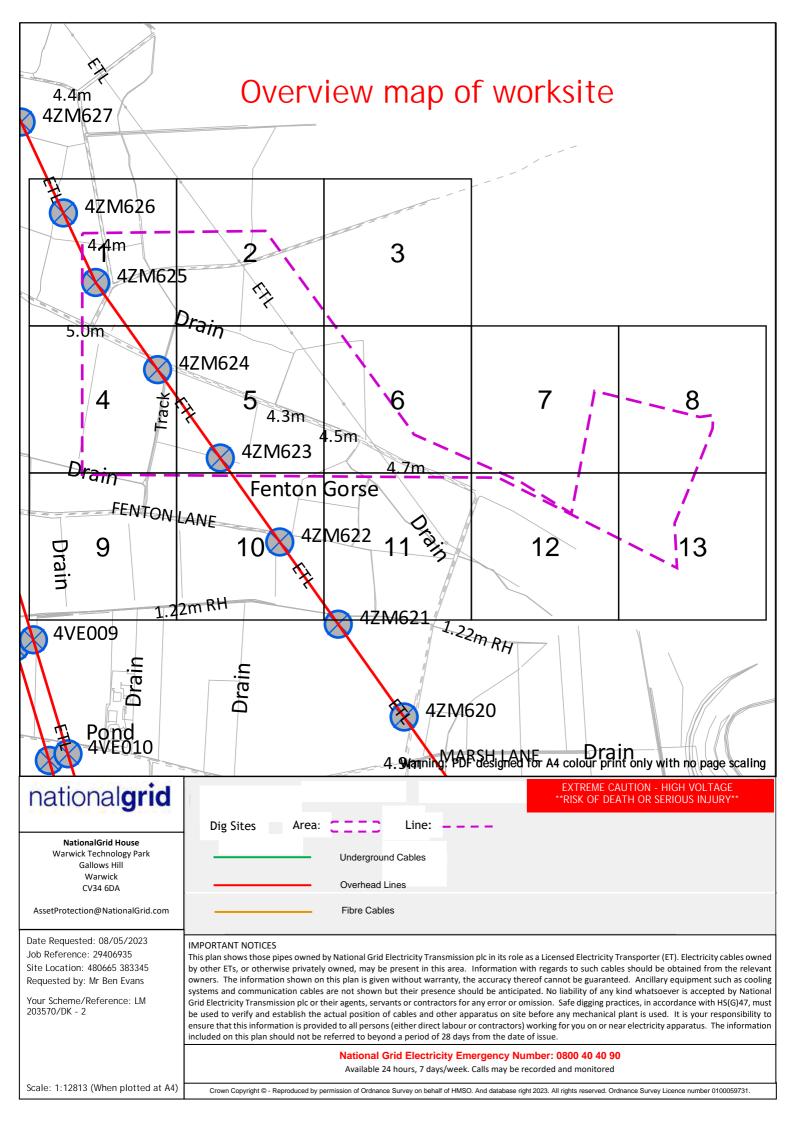
- National Grid's underground cable tunnels are protected by the provisions of a Wayleave/Easement or the New Roads and Street Works Act. This provides full right of access to retain, maintain, repair and inspect our asset.
- Further information and guidance regarding National Grid Cable Tunnels is available on our website at https://www.nationalgrid.com/uk/electricity-transmission/document/121061/download
- National Grid requires that the clearances indicated in the guidance document linked above are maintained at all times. Should it be necessary to enter the exclusion zone discussion/ agreement with National Grid is required to ensure the integrity of their tunnel asset and the high voltage cables is not compromised.
- Ground levels above our cable tunnels must not be altered in any way without prior agreement with National Grid; any alterations to the depth of our tunnels can compromise its integrity which could have an adverse impact on the reliability, efficiency and safety of our electricity network.
- Any works which would create high levels of vibration such as piling would need to be assessed by National Grid to ensure it has limited impact on our cable tunnels. National Grid can advise on acceptable vibration limits.

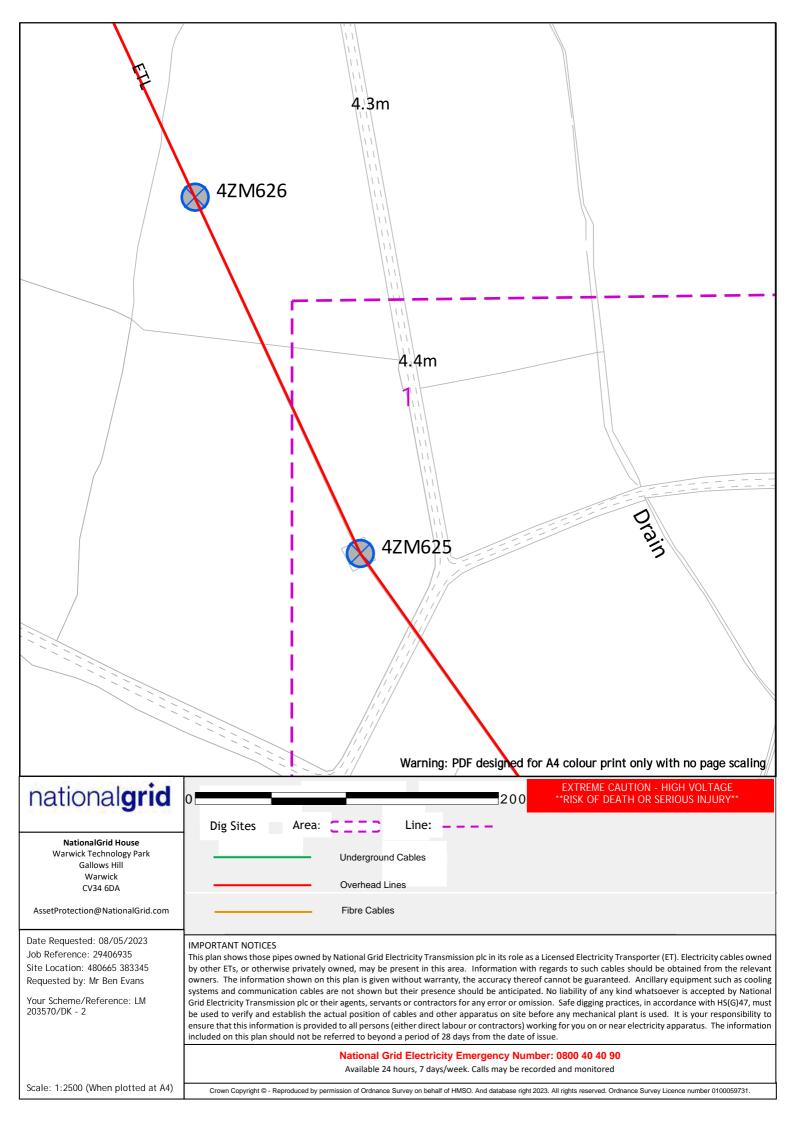
### **Overhead Lines**

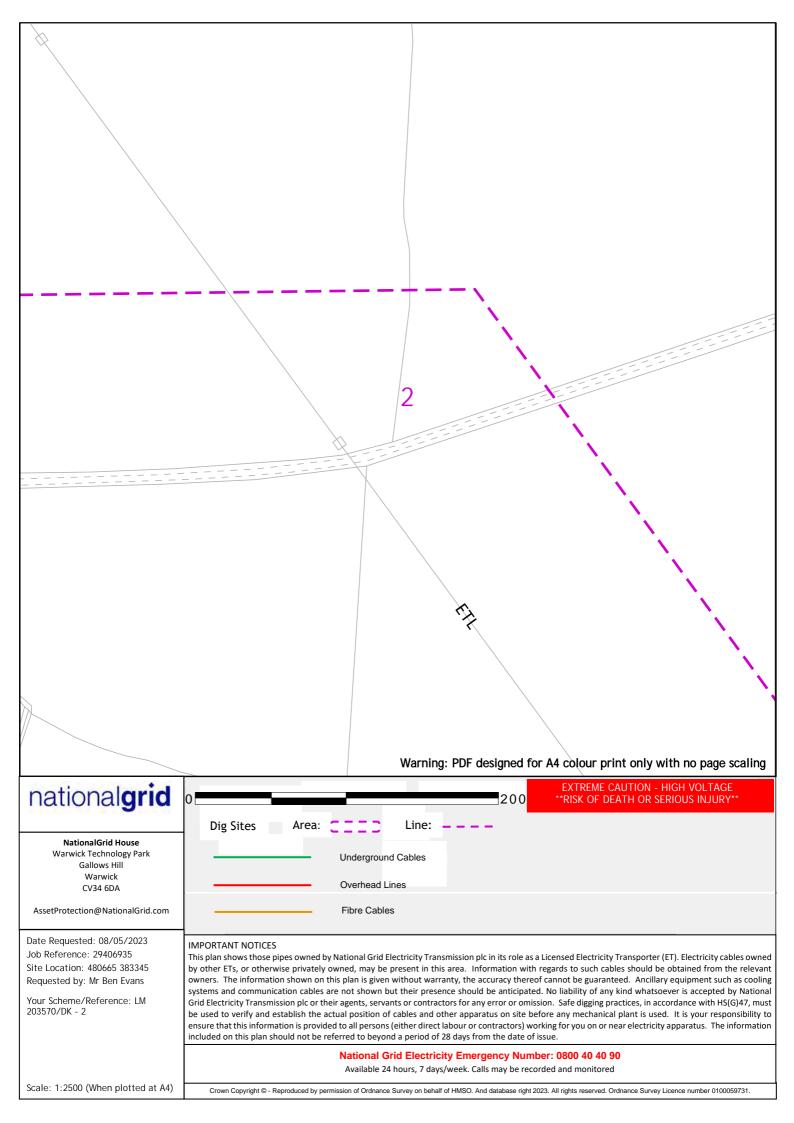
- National Grid's Overhead Line/s is protected by a Deed of Easement/Wayleave Agreement which provides full right of access to retain, maintain, repair and inspect our asset.
- The submitted proposed design does not change after the date of this letter. Any design change that moves the proposal closer to National Grid Overhead Line Assets shall be submitted for assessment.
- Statutory electrical safety clearances shall be maintained at all times. National Grid recommends that no permanent structures are built directly beneath our overhead lines. These distances are set out in EN 43 8 Technical Specification for "Overhead Line Clearances Issue 5 (2019). To purchase & download EN 43 8 Technical Specification for "Overhead Line Clearances Issue 5 (2019) go to https://www.ena-eng.org/ENA-Docs/
- Any changes in ground levels which are proposed either beneath or in close proximity to our existing overhead lines would serve to reduce safety clearances. Safety clearances to existing overhead lines must be maintained in all circumstances.
- To view the Development Near Overhead Lines Document. https://www.nationalgridet.com/document/130626/download
- To view the National Grid Third Party Guidance for working near National Grid Electricity Transmission equipment. https://www.nationalgridet.com/sites/et/files/documents/Working%20near%20electricity%20equipment.pd f

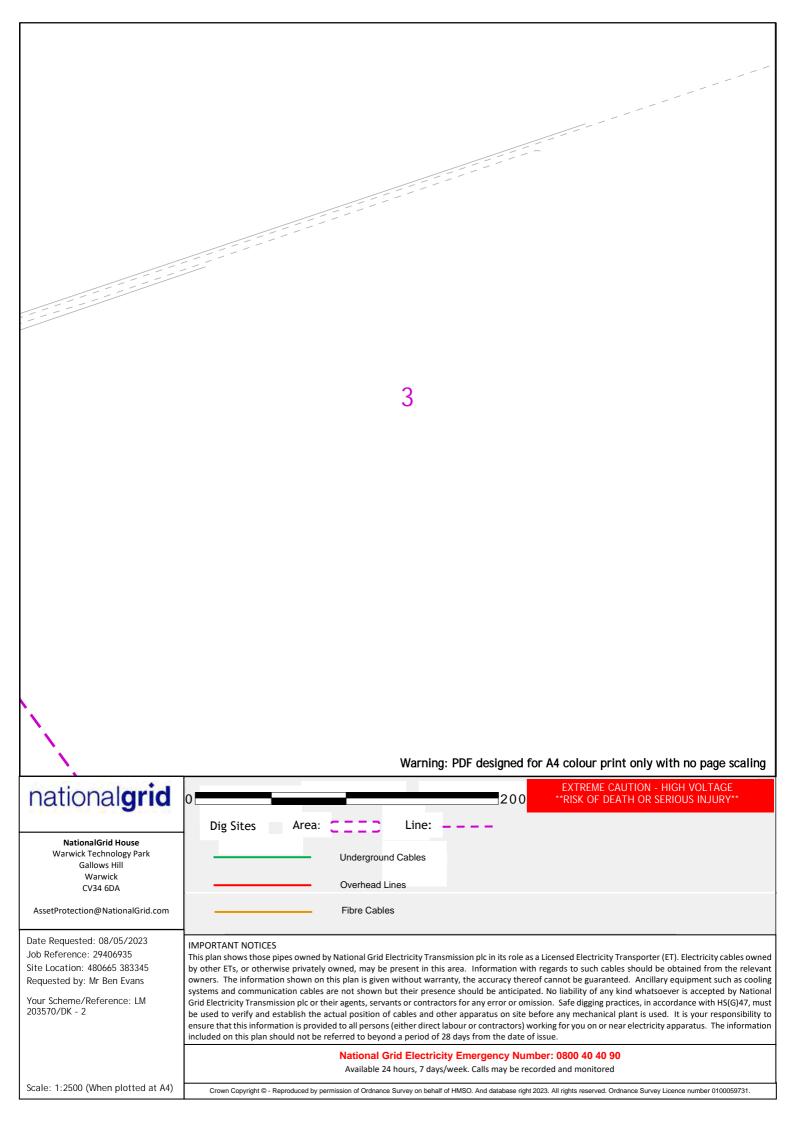


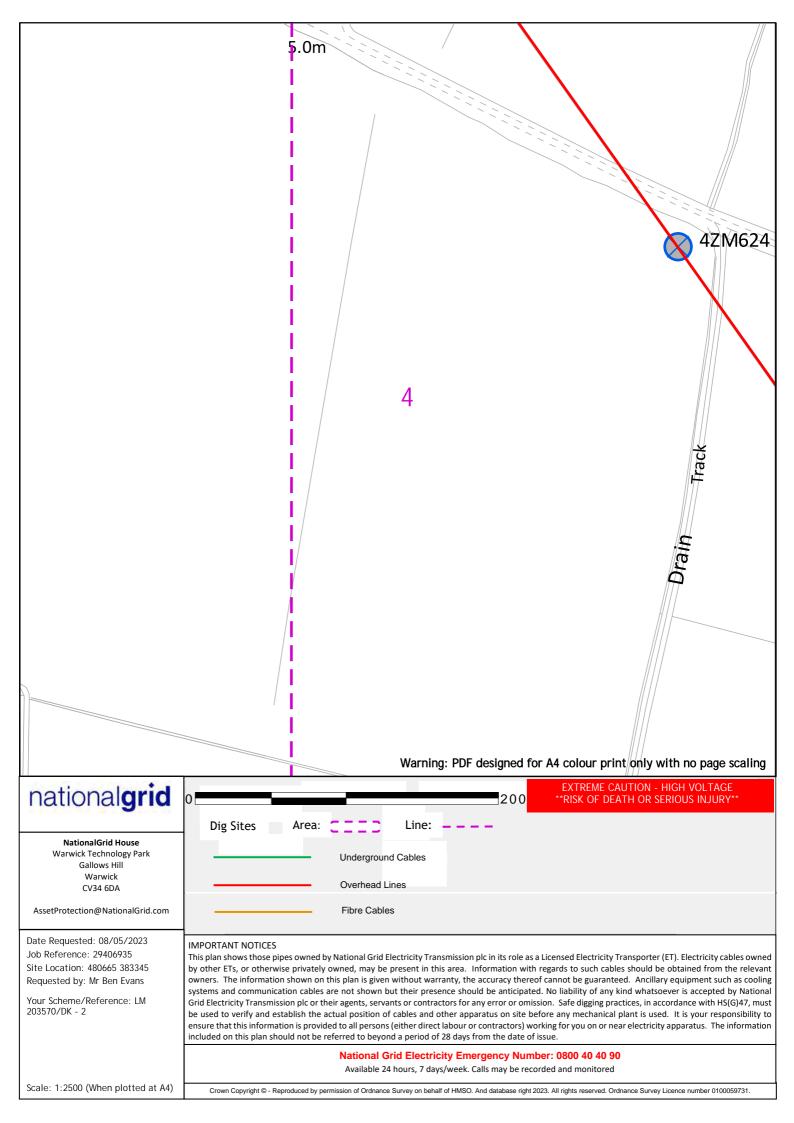
- The relevant guidance in relation to working safely near to existing overhead lines is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance Note GS 6 "Avoidance of Danger from Overhead Electric Lines."
- If a landscaping scheme is proposed as part of the proposal, only slow and low growing species of trees and shrubs shall be planted beneath and adjacent to the existing overhead line to reduce the risk of growth to a height which compromises statutory safety clearances.
- Drilling or excavation works shall not be undertaken if they have the potential to disturb or adversely affect the foundations or "pillars of support" of our towers. These foundations extend beyond the base of the tower. Pillar of Support drawings shall be obtained using the contact details above.
- Due to the scale, bulk and cost of the transmission equipment required to operate at 275kV or 400kV we only support proposals for the relocation of existing high voltage overhead lines where such proposals directly facilitate a major development or infrastructure project of national importance which has been identified as such by government.
- To promote the successful development of sites crossed by existing overhead lines, and the creation of welldesigned places, National Grid has produced 'Design guidelines for development near pylons and high voltage overhead power lines', which look at how to create high quality development near overhead lines and offer practical solutions which can assist in avoiding the unnecessary sterilisation of land in the vicinity of high voltage overhead lines.
- Further information regarding our undergrounding policy and development near transmission overhead lines is available on our website at: https://www.nationalgridet.com/network-and-assets/planning-and-development

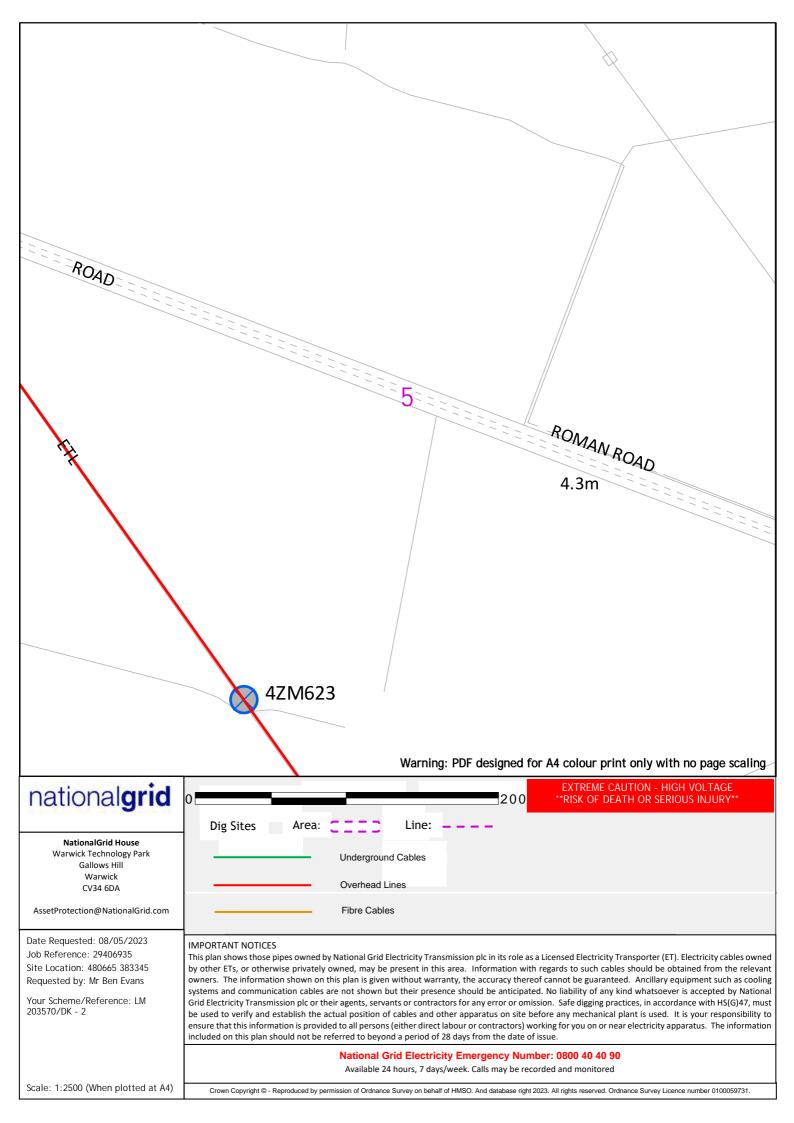


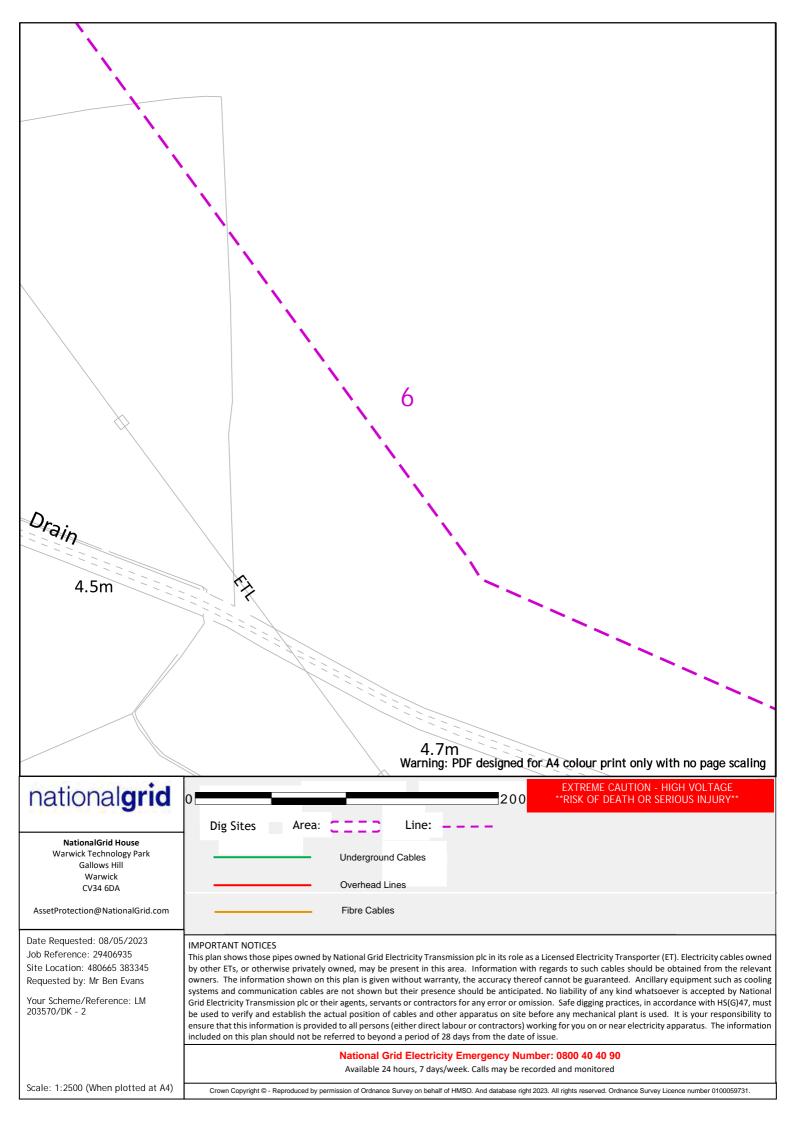


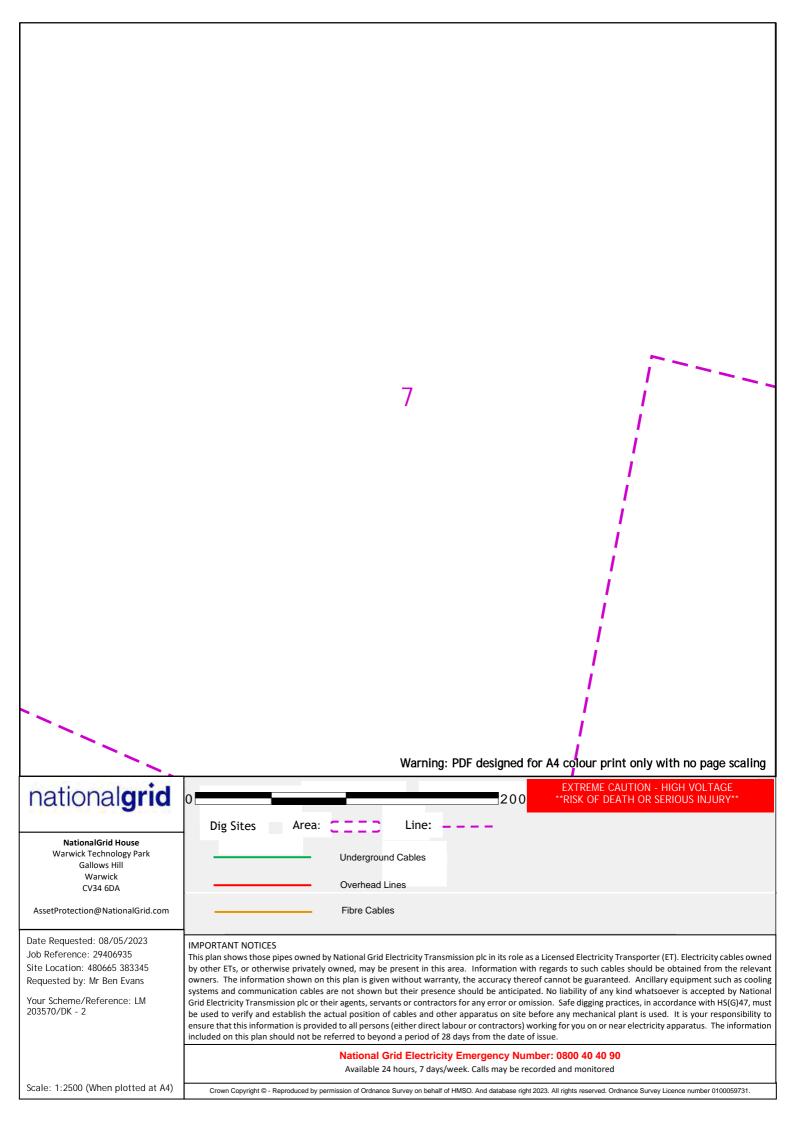


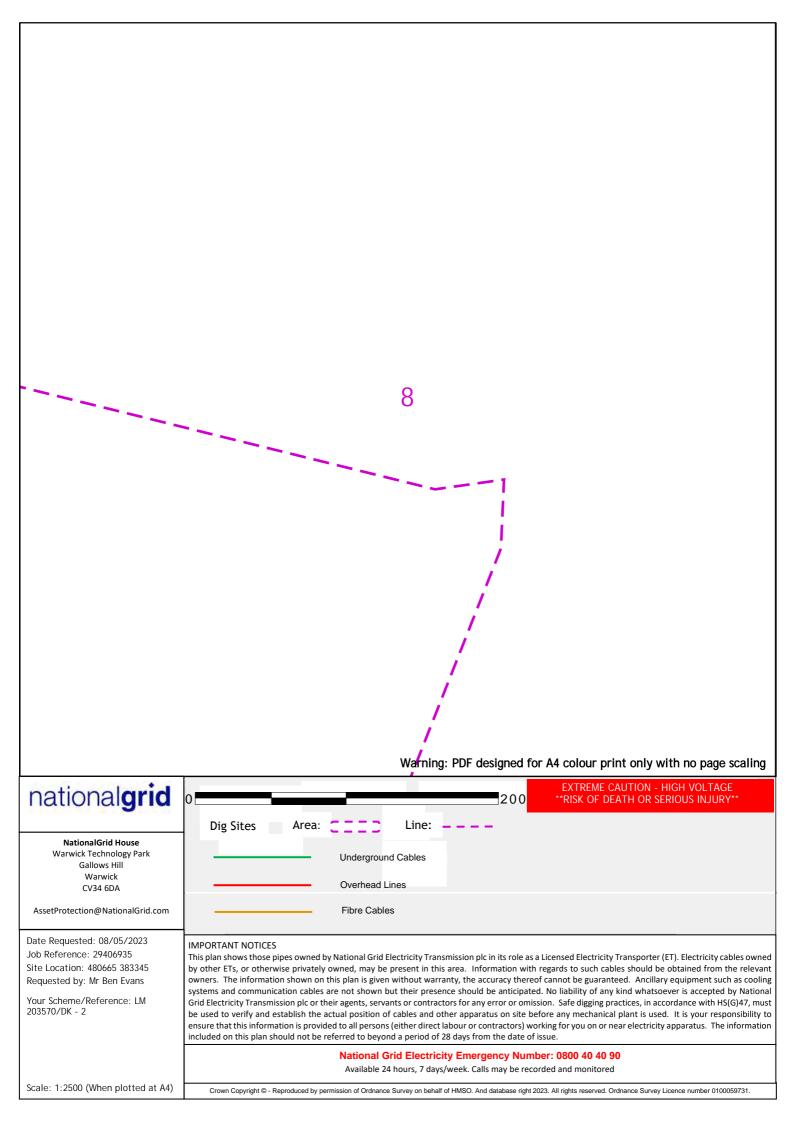


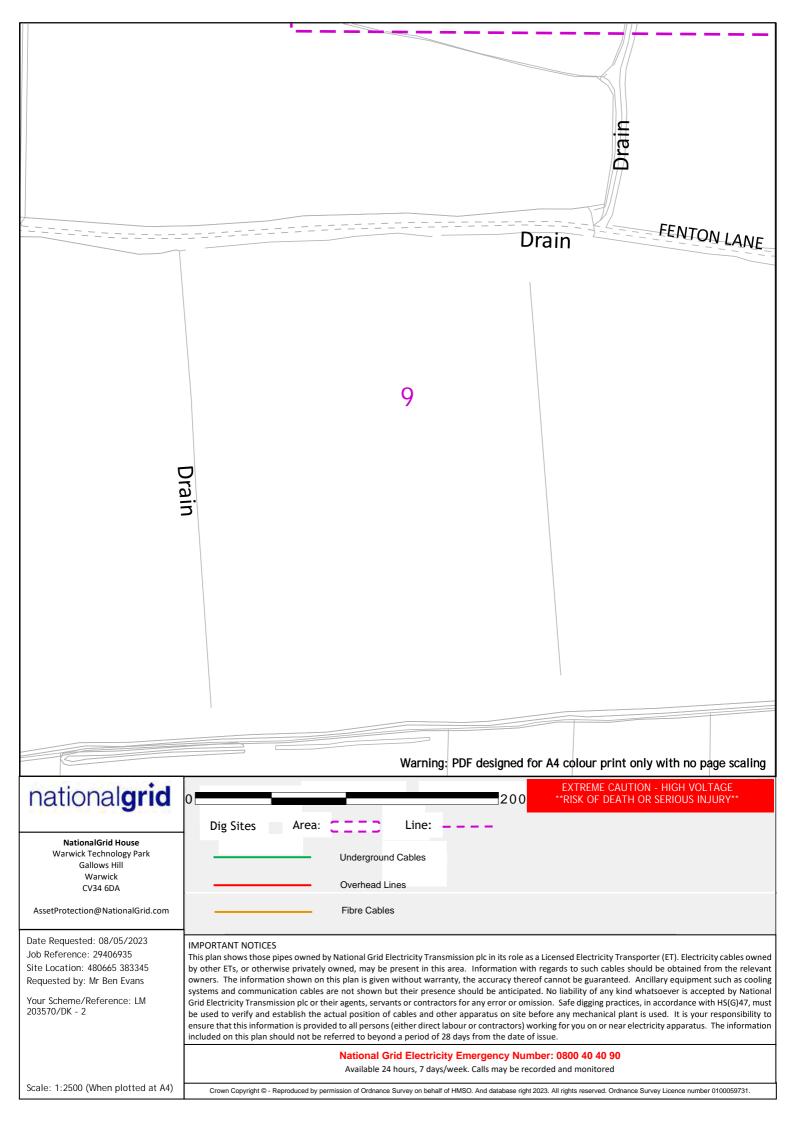


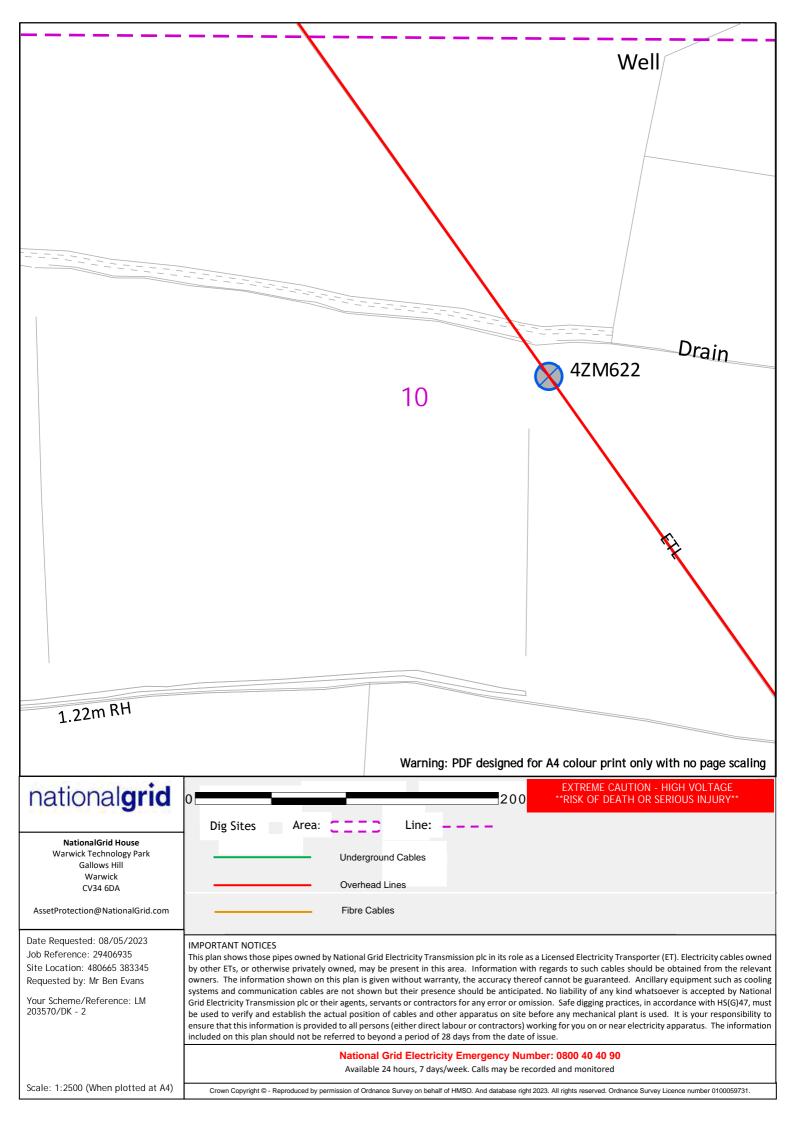


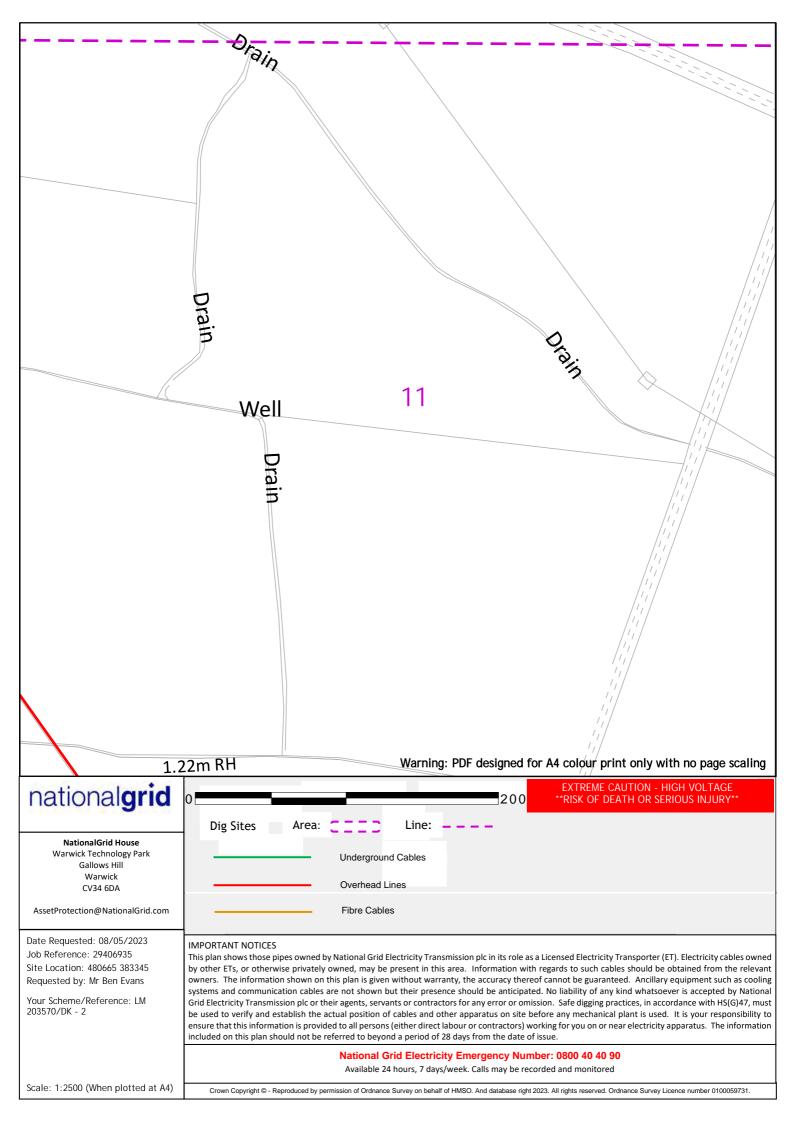


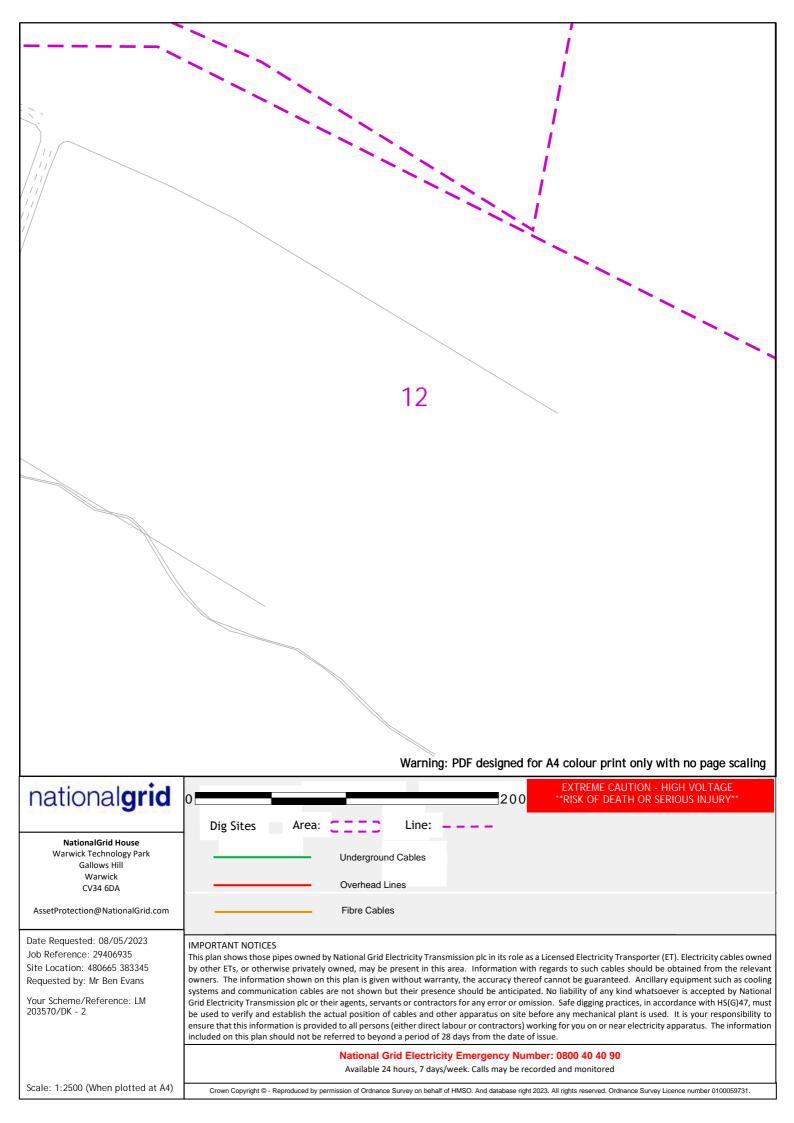


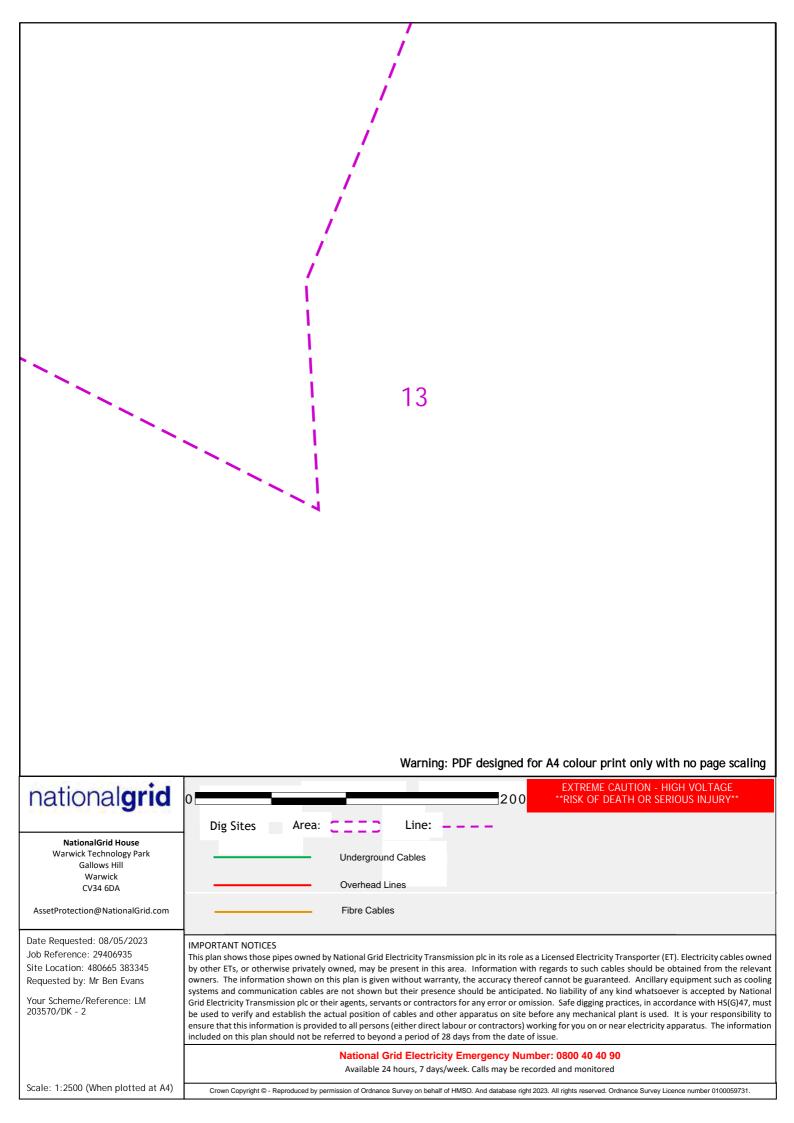












## **ENQUIRY SUMMARY**

Received Date 08/05/2023 9:33

Work Start Date 30/05/2023

Your Reference LM 203570/DK - 2

Location Centre Point: 480665 383345 X Extent: Y Extent: Postcode: DN220HB

### Map Options

Paper Size: A4 Orientation: PORTRAIT Scale: 1:2500 Real World Extents: 2137m x 1142m

**Enquirer Details** 

Organisation Name: Atkins - Utility Solutions Contact Name: Ben Evans Email Address: searches.utilitysolutions@atkinsglobal.com Telephone: 01454662086 Address: The Hub, 500 Park Avenue, Aztec West, , Bristol, BS32 4RZ

Enquiry Type Initial Enquiry

Activity Type Utility Works Work Types Single excavations site (deeper than 1.5m)

### Notes/Works Description (if supplied)

## Site Contact Name (if supplied)

Site Contact Number (if supplied)



Our Ref: 29406936 LM 203570/DK - 3

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West

Bristol BS32 4RZ



National Grid House Warwick Technology Park Gallows Hill, Warwick CV34 6DA

Electricity Emergency Number: 0800 40 40 90\* \*Available 24 hours, 7 days/week. Calls may be recorded and monitored. www.nationalgrid.com

Asset Protection Gas Transmission National Grid Warwick Email: assetprotection@nationalgrid.com

#### National Grid Electricity – High Risk Response Letter

Dear Sir/ Madam,

An assessment has been carried out with respect to National Grid Electricity Transmission plc's apparatus and the proposed work location. Based on the location entered into the system for assessment the area has been found to be within the High Risk zone from National Grid Electricity Transmission plc's apparatus and **Must Not Proceed** without further assessment by Asset Protection.

Could you please send a works description (including how deep you are excavating) and any plans including any commencement dates to the following email address assetprotection@nationalgrid.com including the LSBUD enquiry reference number.

Failure to provide this information will result in a delay to your works being assessed.

Please note this response and any attached map(s) are valid for 28 days from date of this letter. A new enquiry will need to be submitted into LSBUD if the requested information above is not supplied within 28 days.

Yours sincerely,

**Asset Protection** 



## Your Responsibilities and Obligations

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

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

This assessment solely relates to National Grid Electricity Transmission plc (NGET)

This assessment does **NOT** include:

• National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact Asset Protection.

- Recently installed apparatus
- National Grid Gas plc.

• Apparatus owned by other organisations, e.g. Cadent, other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid Electricity Transmission plc easements or wayleaves nor any planning or building regulations applications.

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

If you require further assistance please contact the Asset Protection team via e-mail (assetprotection@nationalgrid.com) or via the contact details at the top of this response.



## Assessment

#### Affected Apparatus

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

• Electricity Transmission Overhead Line apparatus.

#### Requirements

#### **Over Head Lines**

BEFORE carrying out any work you must:

(N.B. Works only to be undertaken when contact has been made and response received from Asset Protection) - Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.

- Contact the landowner and ensure any proposed works in private land do not infringe National Grid Electricity Transmission plc's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.

- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid Electricity Transmission plc's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at www.hse.gov.uk

- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

DURING any work you must:

- Comply with all guidance for working within the vicinity of overhead lines as detailed within the guidance documents listed below.

- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.

- Ensure that access to National Grid Electricity Transmission plc's apparatus is maintained at all times.

- Prevent the placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over National Grid Electricity Transmission plc's apparatus unless specifically agreed with National Grid Electricity Transmission plc's apparatus in advance.

- Exercise extreme caution if slab (mass) concrete is encountered during excavation works as this maybe protecting or supporting National Grid Electricity Transmission plc's apparatus.

### **Underground Cables**

BEFORE carrying out any work you must:

(N.B. Works only to be undertaken when contact has been made and response received from Asset Protection)

- Refer to the attached cable profile drawings which provide details about the location of National Grid's high voltage underground cables.

- Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.

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services and other apparatus on site before any activities are undertaken.

DURING any work you must:

- Comply with all guidance for working within the vicinity of Electricity Underground Cables as detailed within the guidance documents listed below.

- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.

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## **GUIDANCE**

### National Grid Electricity Transmission Network data

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### **Buried Cables**

- National Grid's underground cables are protected by a Deed of grant; Easement; Wayleave Agreement or the provisions of the New Roads and Street Works Act. Which provide full right of access to retain, maintain, repair and inspect our asset. Hence we require that no permanent structures are to be built over our cables or within the easement strip.
- Ground levels above our cables must not be altered in any way. Any alterations to the depth of our cables will subsequently alter the rating of the circuit and can compromise the reliability, efficiency and safety of our electricity network.
- The supplied detailed route records should not be taken as positive indication of the cable location. This can only be determined by digging trial holes. Where trial holes are dug the concrete and / or polymeric cable protection tiles must not be disturbed.
- The normal recommendation is to keep 2 metres clear either side of the 1 metre wide trench containing the AC cable.
- National Grid should be made aware of the works starting and may put in place a representative to monitor the works. The works should be carried out in accordance with the recommendations in document HS (G) 47 available from the HSE web site.
- The relocation of existing underground cables is not normally feasible on grounds of cost, operation and maintenance and environmental impact and we believe that successful development can take place in their vicinity.
- The information supplied is given in good faith and only as a guide to the location of our underground cables. The accuracy of this information cannot be guaranteed. The physical presence of such cables may also be evident from physical protection measures such as ducts or concrete protection tiles. The person(s) responsible for planning, supervising and carrying out work in proximity to our cable(s) shall be liable to us, as cable(s) owner, as well as to any third party who may be affected in any way by any loss or damage resulting from their failure to locate and avoid any damage to such a cable(s).
- The relevant guidance in relation to working safely near to existing underground cables is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance HS(G)47 "Avoiding Danger From Underground Services" and all relevant site staff should make sure that they are both aware of and understand this guidance.
- Our cables are normally buried to a depth of 0.9 metres to the protective covers but this depth can vary depending on location (bridges may have cables 100mm below surface level)..The specific cable route record drawings show further details along the route of the particular cable. The cable route drawings are attached to this letter for your information.
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Ground cover above our cables should not be reduced or increased without consultation with National Grid.
National Grid is a trading name for:
National Grid Electricity Transmission plc
Registered Office: 1-3 Strand, London WC2N 5EH
Registered in England and Wales, No 2366977

 If a landscaping scheme is proposed as part of the works, we request that no trees and shrubs are planted either directly above or within 3 metres of the existing underground cable, as ultimately the roots may grow to cause damage to the cable.

before

### **Cables Tunnels**

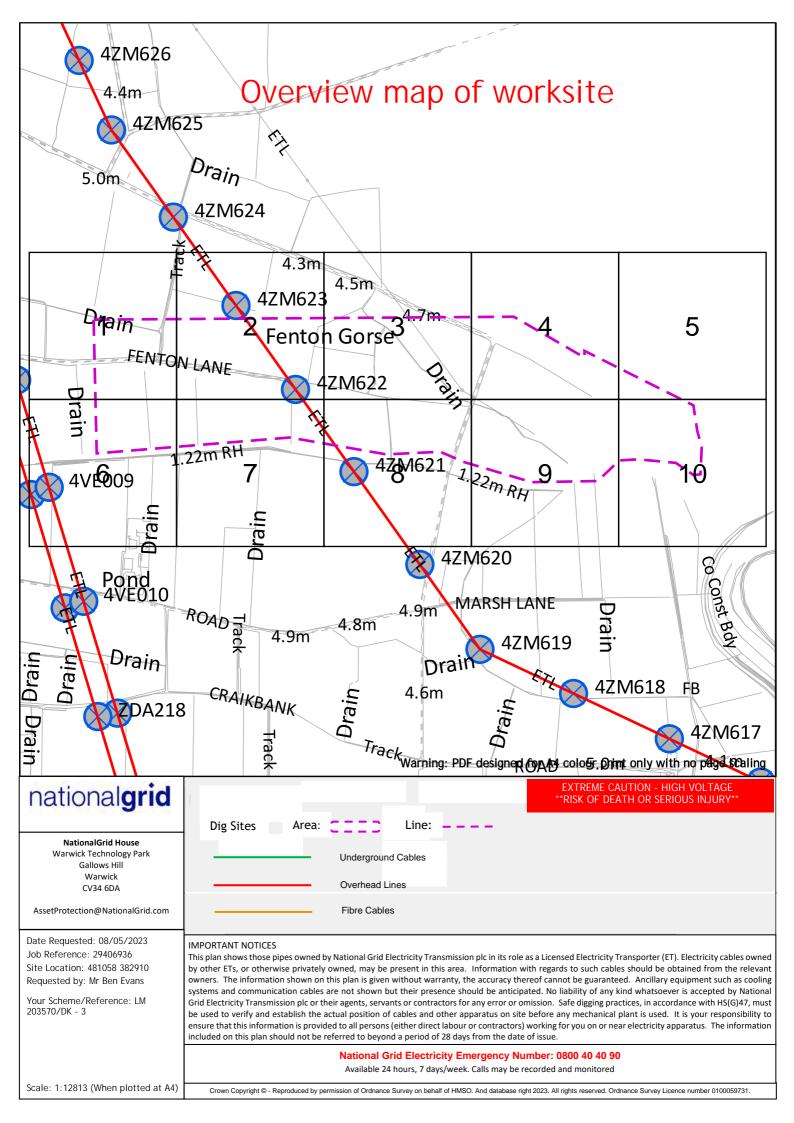
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- Further information and guidance regarding National Grid Cable Tunnels is available on our website at https://www.nationalgrid.com/uk/electricity-transmission/document/121061/download
- National Grid requires that the clearances indicated in the guidance document linked above are maintained at all times. Should it be necessary to enter the exclusion zone discussion/ agreement with National Grid is required to ensure the integrity of their tunnel asset and the high voltage cables is not compromised.
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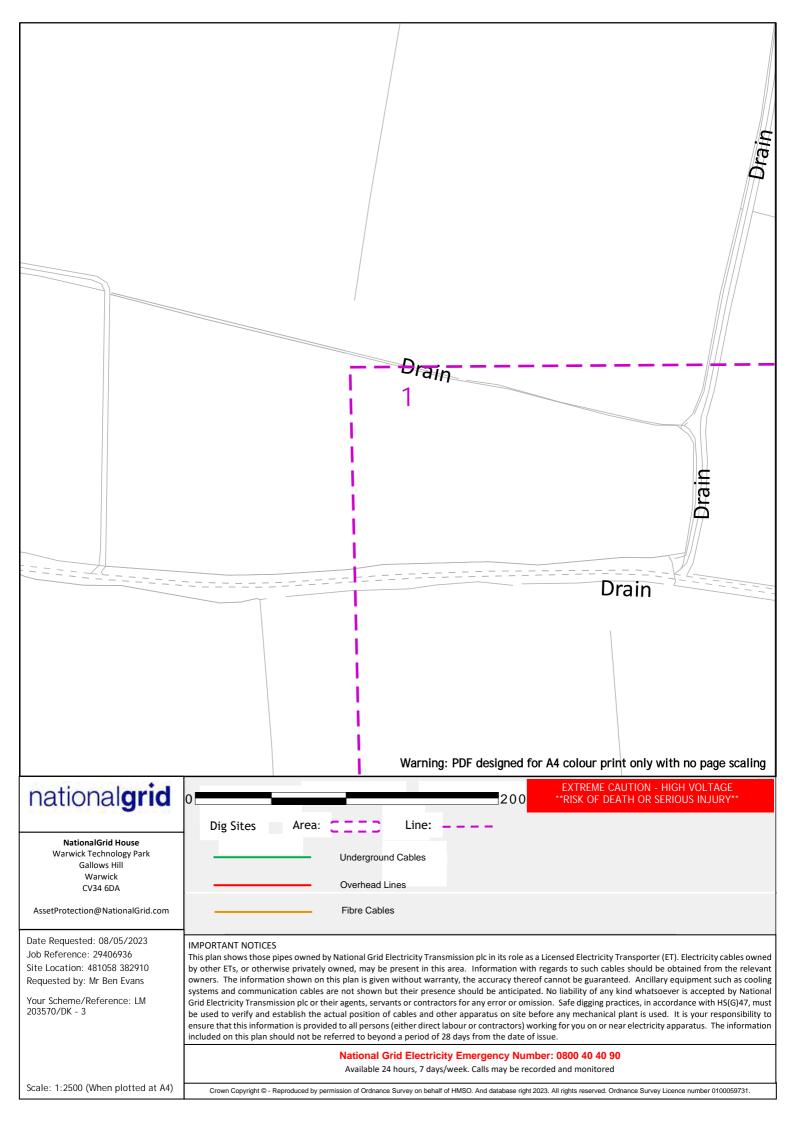
### **Overhead Lines**

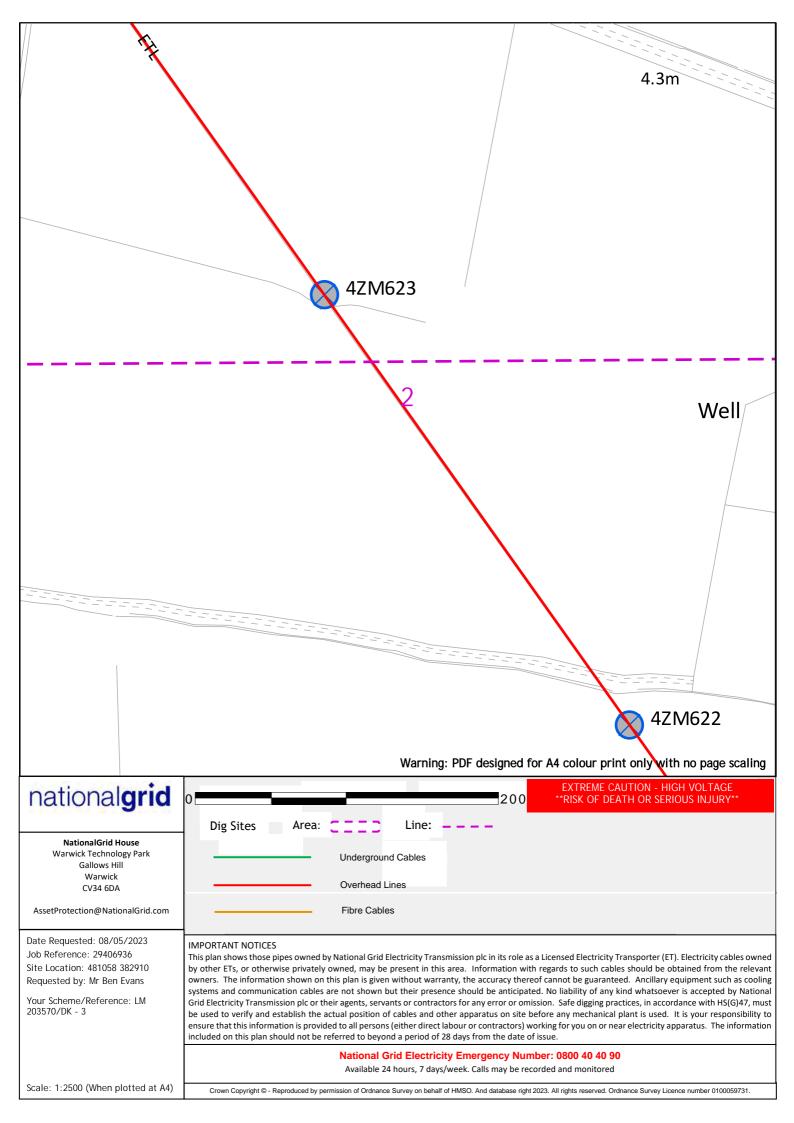
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- To view the Development Near Overhead Lines Document. https://www.nationalgridet.com/document/130626/download
- To view the National Grid Third Party Guidance for working near National Grid Electricity Transmission equipment. https://www.nationalgridet.com/sites/et/files/documents/Working%20near%20electricity%20equipment.pd f

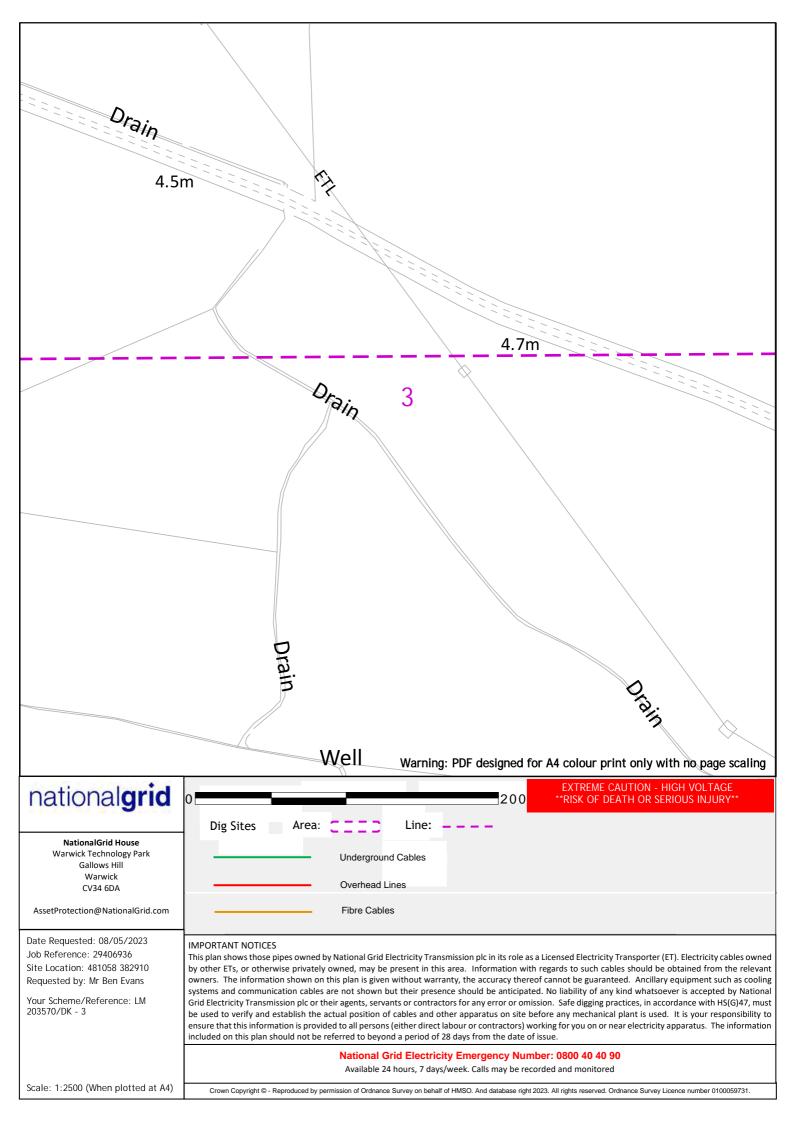


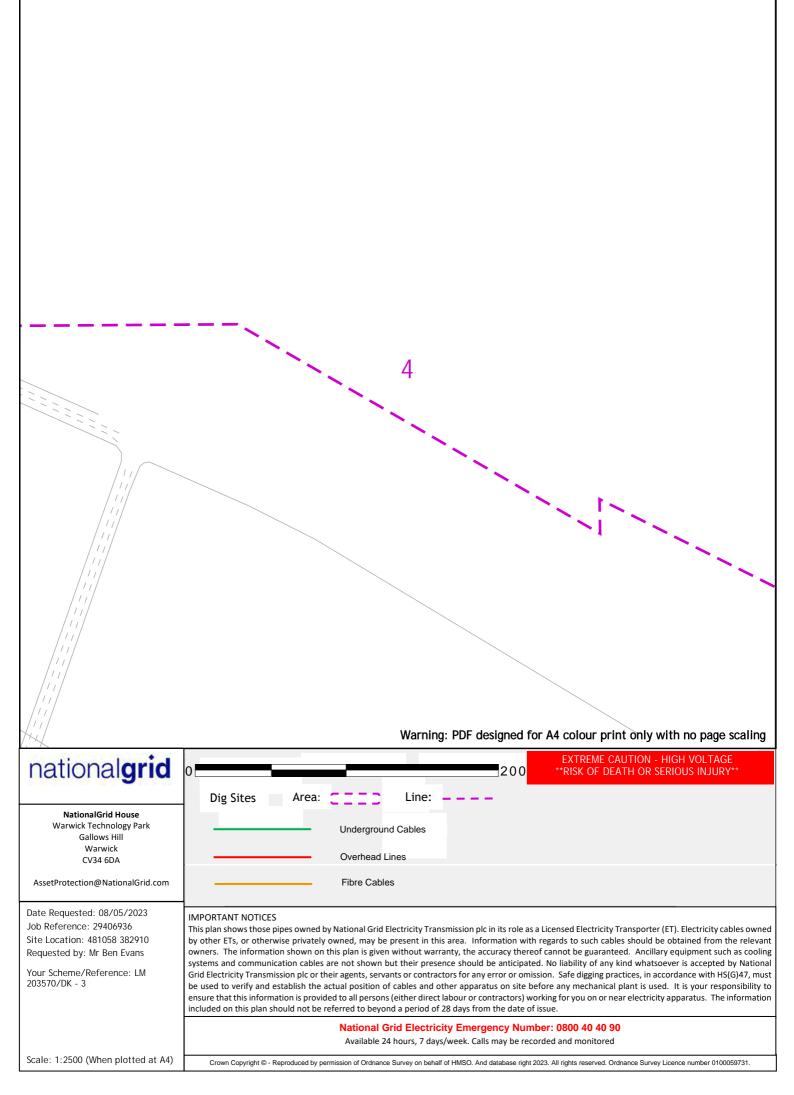
- The relevant guidance in relation to working safely near to existing overhead lines is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance Note GS 6 "Avoidance of Danger from Overhead Electric Lines."
- If a landscaping scheme is proposed as part of the proposal, only slow and low growing species of trees and shrubs shall be planted beneath and adjacent to the existing overhead line to reduce the risk of growth to a height which compromises statutory safety clearances.
- Drilling or excavation works shall not be undertaken if they have the potential to disturb or adversely affect the foundations or "pillars of support" of our towers. These foundations extend beyond the base of the tower. Pillar of Support drawings shall be obtained using the contact details above.
- Due to the scale, bulk and cost of the transmission equipment required to operate at 275kV or 400kV we only support proposals for the relocation of existing high voltage overhead lines where such proposals directly facilitate a major development or infrastructure project of national importance which has been identified as such by government.
- To promote the successful development of sites crossed by existing overhead lines, and the creation of welldesigned places, National Grid has produced 'Design guidelines for development near pylons and high voltage overhead power lines', which look at how to create high quality development near overhead lines and offer practical solutions which can assist in avoiding the unnecessary sterilisation of land in the vicinity of high voltage overhead lines.
- Further information regarding our undergrounding policy and development near transmission overhead lines is available on our website at: https://www.nationalgridet.com/network-and-assets/planning-and-development

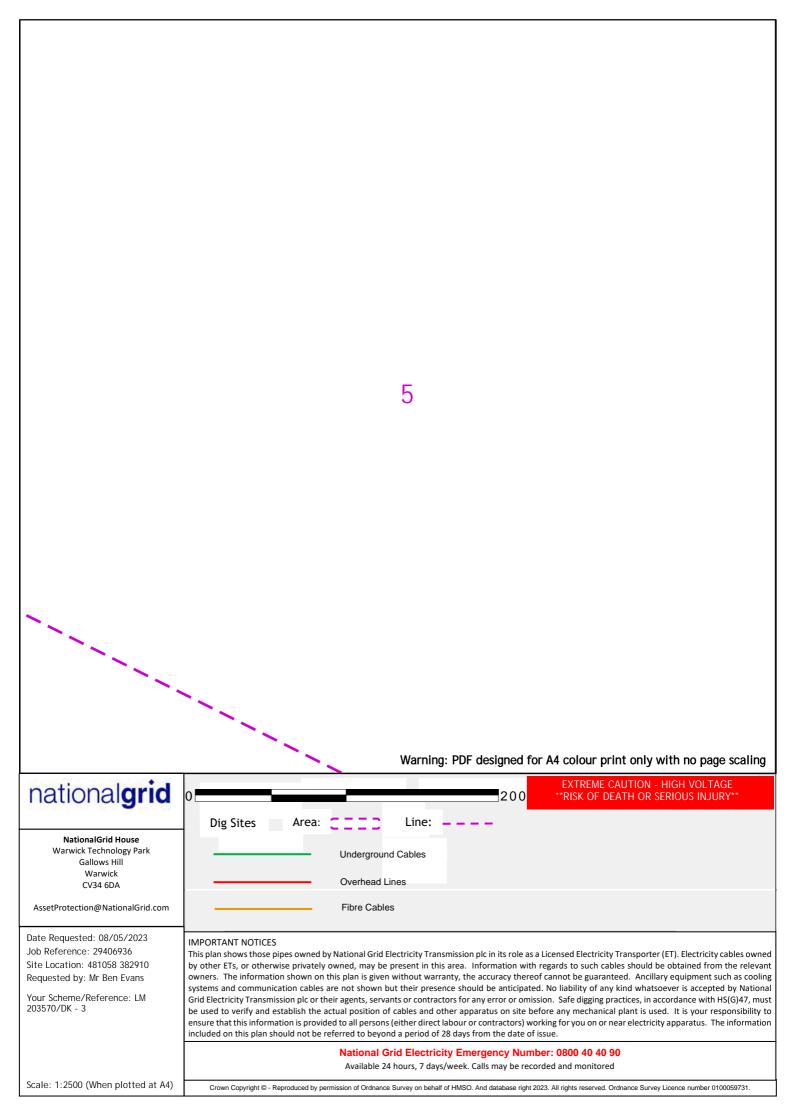


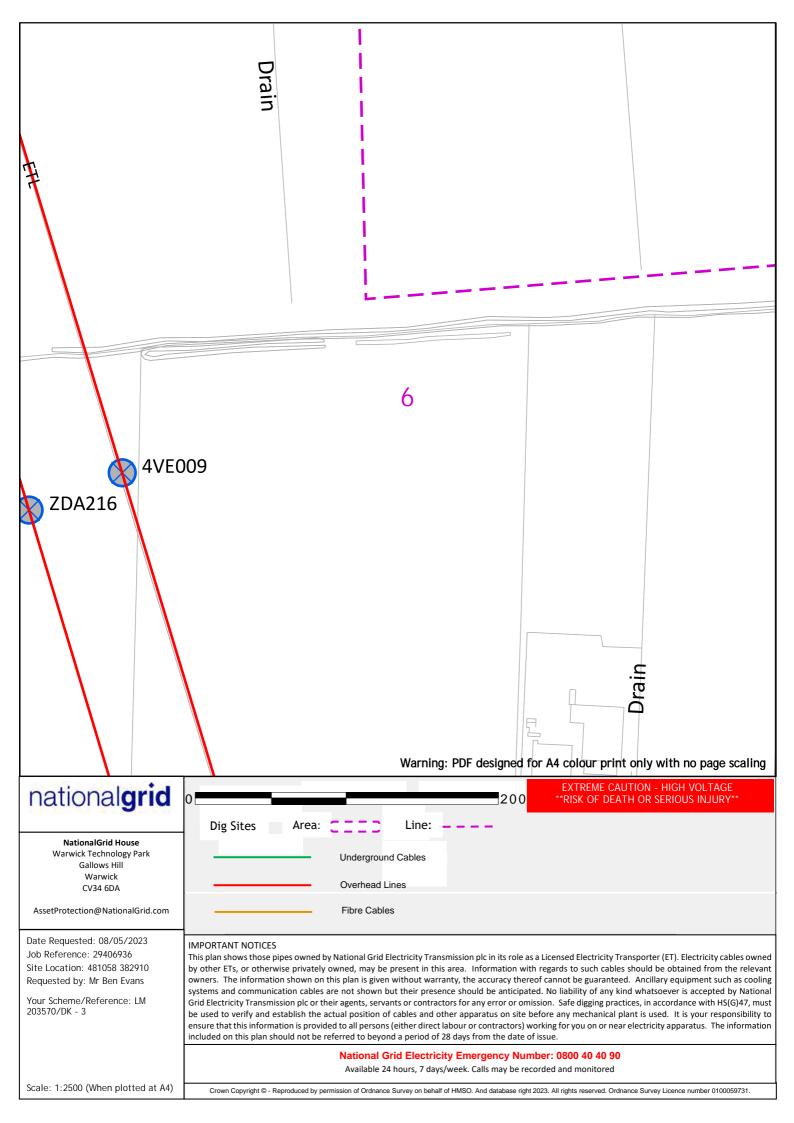


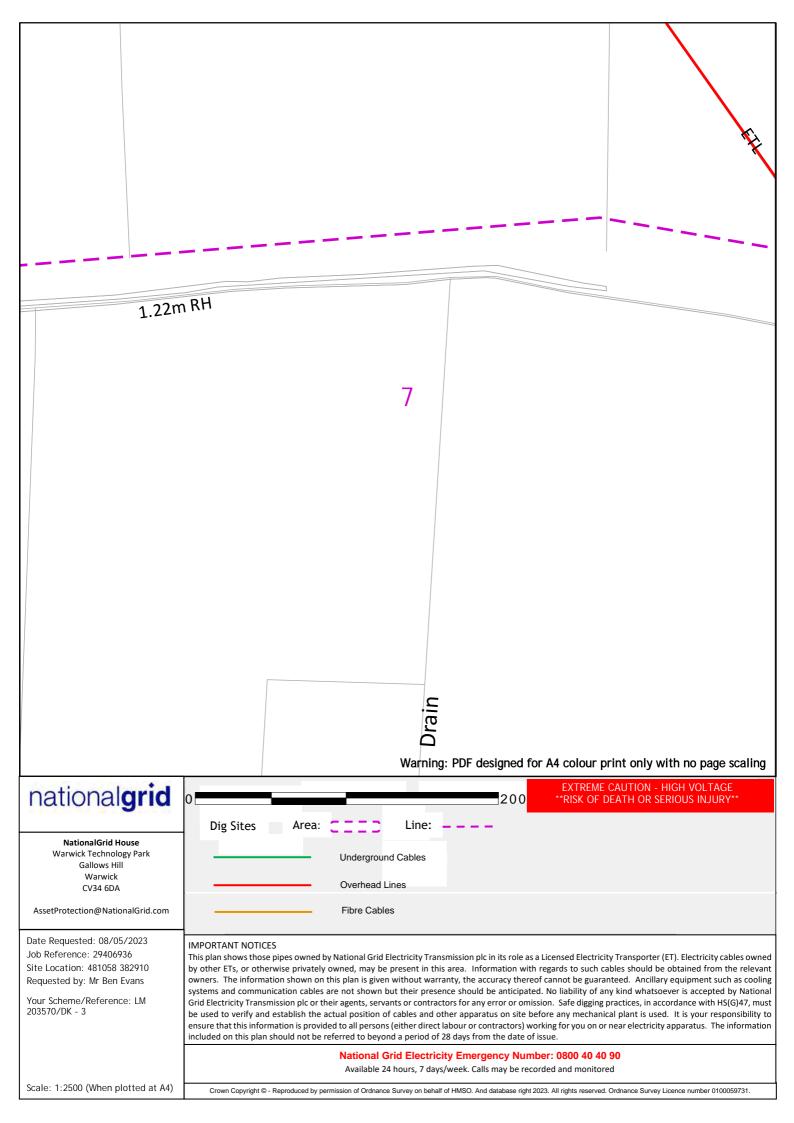


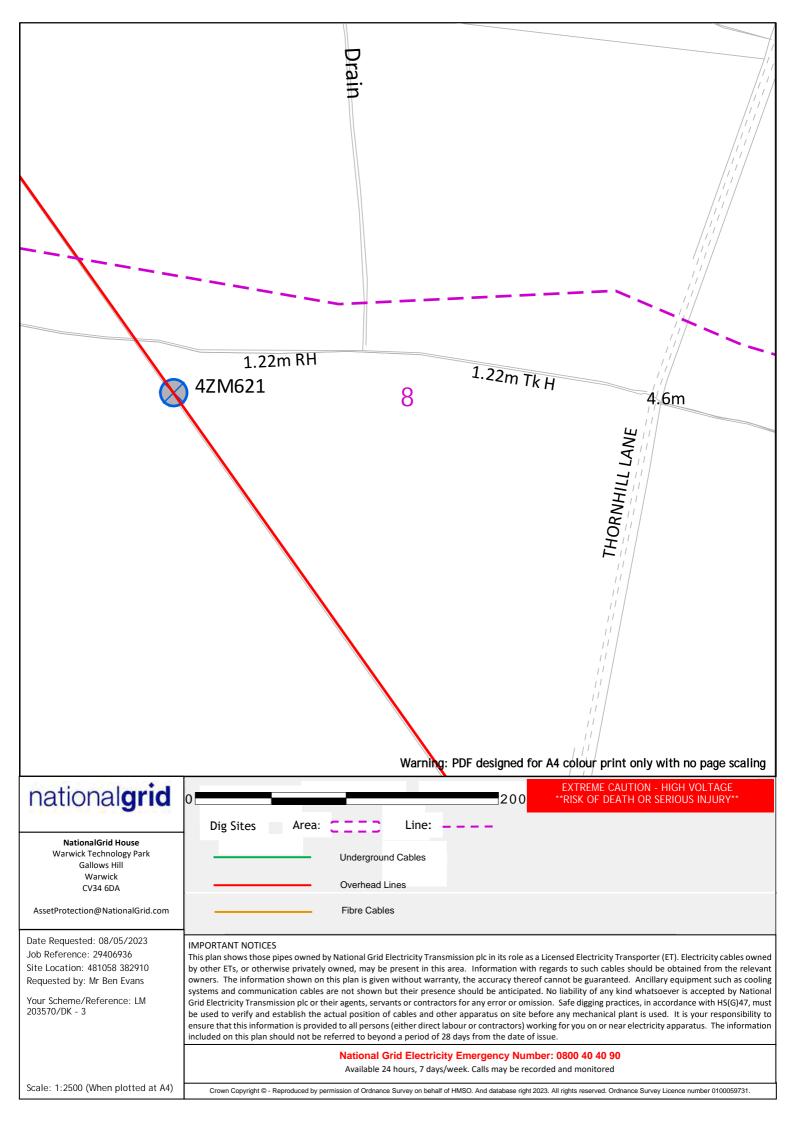


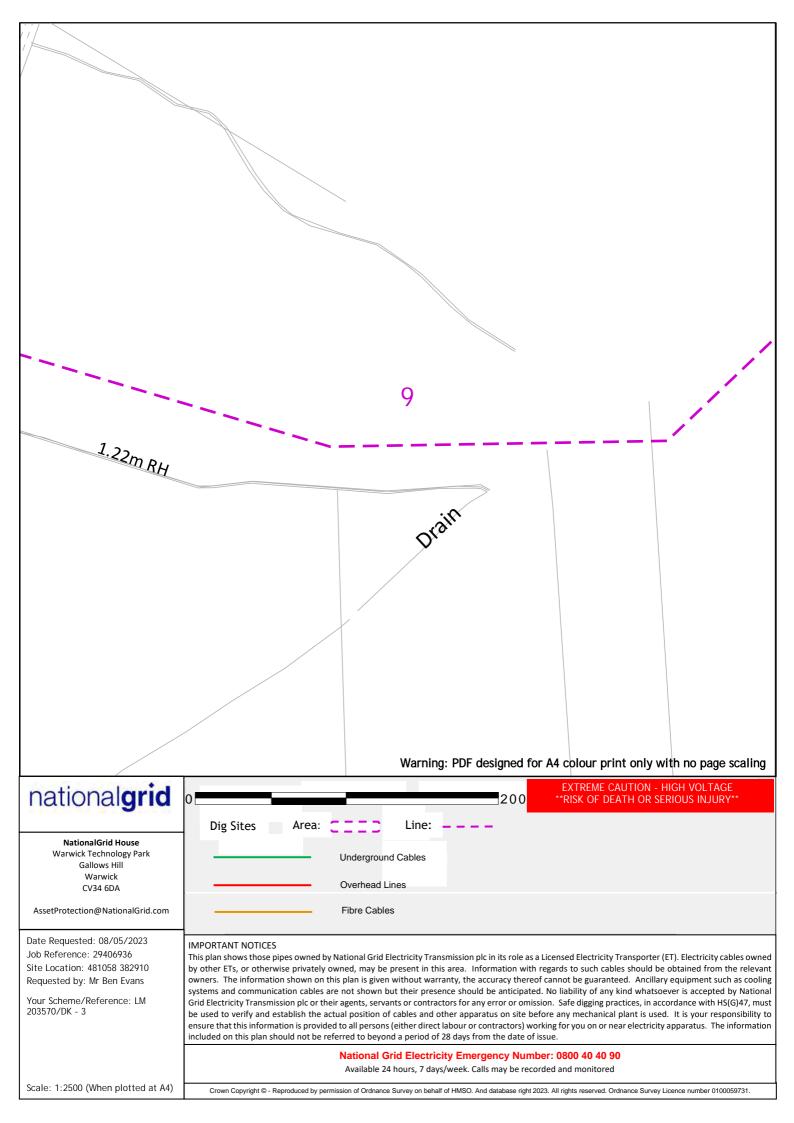


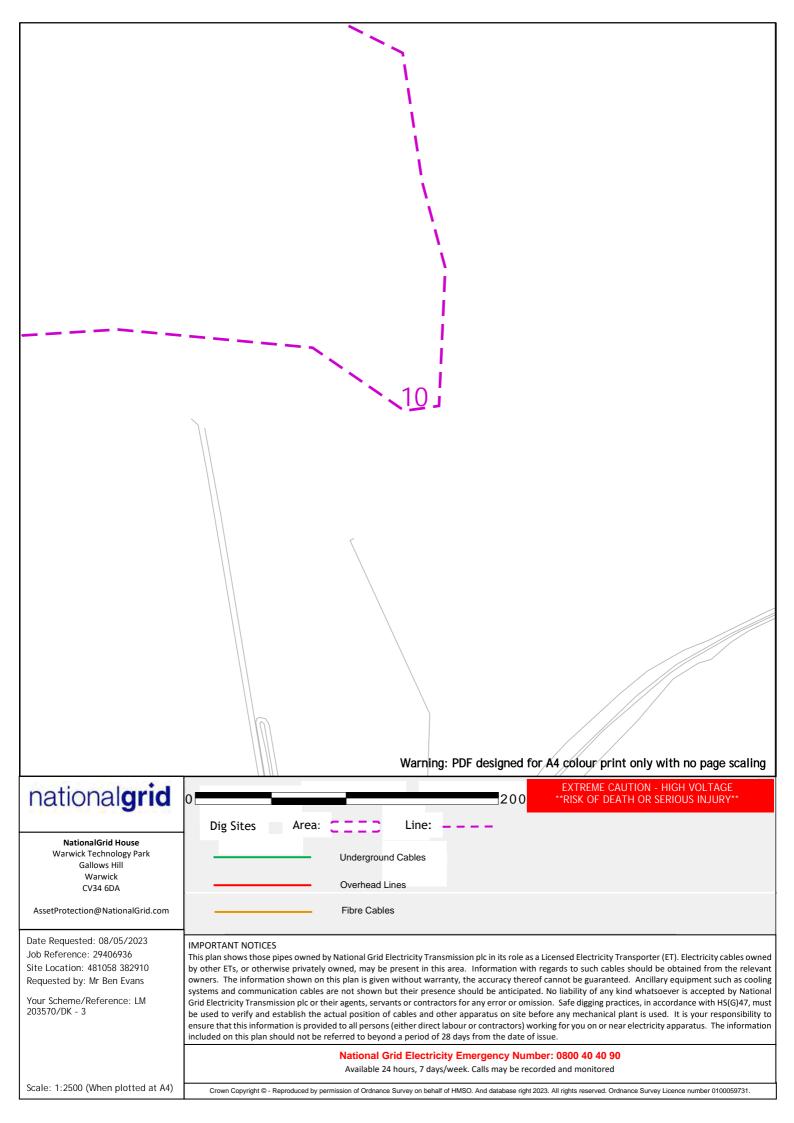












# **ENQUIRY SUMMARY**

Received Date 08/05/2023 9:33

Work Start Date 30/05/2023

Your Reference LM 203570/DK - 3

Location Centre Point: 481058 382910 X Extent: Y Extent: Postcode: DN220HB

## Map Options Paper Size: A4 Orientation: PORTRAIT Scale: 1:2500

Real World Extents: 2060m x 561m

Enquirer Details Organisation Name: Atkins - Utility Solutions Contact Name: Ben Evans Email Address: searches.utilitysolutions@atkinsglobal.com Telephone: 01454662086 Address: The Hub, 500 Park Avenue, Aztec West, , Bristol, BS32 4RZ

Enquiry Type Initial Enquiry Activity Type Utility Works

Work Types Single excavations site (deeper than 1.5m)

## Notes/Works Description (if supplied)

## Site Contact Name (if supplied)

Site Contact Number (if supplied)



Our Ref: 29406937 LM 203570/DK - 4

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West

Bristol BS32 4RZ



National Grid House Warwick Technology Park Gallows Hill, Warwick CV34 6DA

Electricity Emergency Number: 0800 40 40 90\* \*Available 24 hours, 7 days/week. Calls may be recorded and monitored. www.nationalgrid.com

Asset Protection Electricity Transmission National Grid Warwick Email: assetprotection@nationalgrid.com

#### National Grid Electricity – Small Scale Works - Initial Enquiry

Dear Sir/ Madam,

An assessment has been carried out with respect to National Grid Electricity Transmission plc's apparatus and the proposed work location. Based on the location entered into the system for assessment the area has been found to be within the High Risk zone from National Grid Electricity Transmission plc's apparatus and **Must Not Proceed** without further assessment by Asset Protection.

As you have entered an **Initial enquiry** please could you ensure that you submit a **Planned works enquiry** in Line Search (LSBUD) with a works description (including how deep you are excavating) at least **4 weeks** ahead of your scheduled start date. Once you receive the LSBUD Planned works response please submit plans to following email address assetprotection@nationalgrid.com including the LSBUD reference number.

If you require any additional information at this stage such as Overhead Line profile drawings please contact assetprotection@nationalgrid.com including the LSBUD reference number.

Failure to submit a Planned enquiry and requested information will result in a delay to your works being assessed.

Please do not commence with any works until you have been contacted by National Grid.

Please note this response and any attached map(s) are valid for 28 days from the date of this letter.

Yours sincerely,

Asset Protection



# Your Responsibilities and Obligations

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

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

This assessment solely relates to National Grid Electricity Transmission plc (NGET)

This assessment does **NOT** include:

• National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact Asset Protection.

- Recently installed apparatus
- National Grid Gas plc.

• Apparatus owned by other organisations, e.g. Cadent, other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid Electricity Transmission plc easements or wayleaves nor any planning or building regulations applications.

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

If you require further assistance please contact the Asset Protection team via e-mail (assetprotection@nationalgrid.com) or via the contact details at the top of this response.



## Assessment

#### Affected Apparatus

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

- Electricity Transmission Overhead Line apparatus.
- Electricity Transmission Underground Cables and associated apparatus.

#### Requirements

**Over Head Lines** 

BEFORE carrying out any work you must:

(N.B. Works only to be undertaken when contact has been made and response received from Asset Protection) - Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.

- Contact the landowner and ensure any proposed works in private land do not infringe National Grid Electricity Transmission plc's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.

- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid Electricity Transmission plc's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at www.hse.gov.uk

- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

DURING any work you must:

- Comply with all guidance for working within the vicinity of overhead lines as detailed within the guidance documents listed below.

- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.

- Ensure that access to National Grid Electricity Transmission plc's apparatus is maintained at all times.

- Prevent the placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over National Grid Electricity Transmission plc's apparatus unless specifically agreed with National Grid Electricity Transmission plc's apparatus in advance.

- Exercise extreme caution if slab (mass) concrete is encountered during excavation works as this maybe protecting or supporting National Grid Electricity Transmission plc's apparatus.

#### **Underground Cables**

BEFORE carrying out any work you must:

(N.B. Works only to be undertaken when contact has been made and response received from Asset Protection)

- Refer to the attached cable profile drawings which provide details about the location of National Grid's high voltage underground cables.

- Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.

- Contact the landowner and ensure any proposed works in private land do not infringe infringe National Grid Electricity Transmission plc's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.

- Ensure that all persons, including direct labour and contractors, working for you on or near infringe National Grid Electricity Transmission plc's follow the requirements of the HSE Guidance Notes HS(G)47 "Avoiding Danger From Underground Services". This guidance can be downloaded free of charge at www.hse.gov.uk

- In line with the above guidance, verify and establish the actual position of mains, pipes, cables,





services and other apparatus on site before any activities are undertaken.

DURING any work you must:

- Comply with all guidance for working within the vicinity of Electricity Underground Cables as detailed within the guidance documents listed below.

- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.

- Ensure that access to National Grid Electricity Transmission plc's apparatus is maintained at all times.

- Prevent the placing of heavy construction plant, equipment, materials or the passage of heavy

vehicles over National Grid Electricity Transmission plc's apparatus unless specifically agreed with National Grid Electricity Transmission plc's in advance.

- Exercise extreme caution if slab (mass) concrete is encountered during excavation works as this maybe protecting or supporting National Grid Electricity Transmission plc's apparatus.

## GUIDANCE

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





#### National Grid Electricity Transmission Network data

• The Network map for National Grid Electricity Transmission assets can be downloaded at the following link in GIS format.

https://www.nationalgrid.com/uk/electricity-transmission/network-and-infrastructure/network-route-maps

#### **Buried Cables**

- National Grid's underground cables are protected by a Deed of grant; Easement; Wayleave Agreement or the provisions of the New Roads and Street Works Act. Which provide full right of access to retain, maintain, repair and inspect our asset. Hence we require that no permanent structures are to be built over our cables or within the easement strip.
- Ground levels above our cables must not be altered in any way. Any alterations to the depth of our cables will subsequently alter the rating of the circuit and can compromise the reliability, efficiency and safety of our electricity network.
- The supplied detailed route records should not be taken as positive indication of the cable location. This can only be determined by digging trial holes. Where trial holes are dug the concrete and / or polymeric cable protection tiles must not be disturbed.
- The normal recommendation is to keep 2 metres clear either side of the 1 metre wide trench containing the AC cable.
- National Grid should be made aware of the works starting and may put in place a representative to monitor the works. The works should be carried out in accordance with the recommendations in document HS (G) 47 available from the HSE web site.
- The relocation of existing underground cables is not normally feasible on grounds of cost, operation and maintenance and environmental impact and we believe that successful development can take place in their vicinity.
- The information supplied is given in good faith and only as a guide to the location of our underground cables. The accuracy of this information cannot be guaranteed. The physical presence of such cables may also be evident from physical protection measures such as ducts or concrete protection tiles. The person(s) responsible for planning, supervising and carrying out work in proximity to our cable(s) shall be liable to us, as cable(s) owner, as well as to any third party who may be affected in any way by any loss or damage resulting from their failure to locate and avoid any damage to such a cable(s).
- The relevant guidance in relation to working safely near to existing underground cables is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance HS(G)47 "Avoiding Danger From Underground Services" and all relevant site staff should make sure that they are both aware of and understand this guidance.
- Our cables are normally buried to a depth of 0.9 metres to the protective covers but this depth can vary depending on location (bridges may have cables 100mm below surface level)..The specific cable route record drawings show further details along the route of the particular cable. The cable route drawings are attached to this letter for your information.
- Cables installed in cable tunnels, whilst less likely to be affected by surface or shallow works may be affected by activities such as piling.
- National Grid assets can be adversely affected by vibration and can provide guidance on the acceptable levels of vibration due to piling and other construction related operations in the vicinity of national grid assets
- Ground cover above our cables should not be reduced or increased without consultation with National Grid.



• If a landscaping scheme is proposed as part of the works, we request that no trees and shrubs are planted either directly above or within 3 metres of the existing underground cable, as ultimately the roots may grow to cause damage to the cable.

### **Cables Tunnels**

- National Grid's underground cable tunnels are protected by the provisions of a Wayleave/Easement or the New Roads and Street Works Act. This provides full right of access to retain, maintain, repair and inspect our asset.
- Further information and guidance regarding National Grid Cable Tunnels is available on our website at https://www.nationalgrid.com/uk/electricity-transmission/document/121061/download
- National Grid requires that the clearances indicated in the guidance document linked above are maintained at all times. Should it be necessary to enter the exclusion zone discussion/ agreement with National Grid is required to ensure the integrity of their tunnel asset and the high voltage cables is not compromised.
- Ground levels above our cable tunnels must not be altered in any way without prior agreement with National Grid; any alterations to the depth of our tunnels can compromise its integrity which could have an adverse impact on the reliability, efficiency and safety of our electricity network.
- Any works which would create high levels of vibration such as piling would need to be assessed by National Grid to ensure it has limited impact on our cable tunnels. National Grid can advise on acceptable vibration limits.

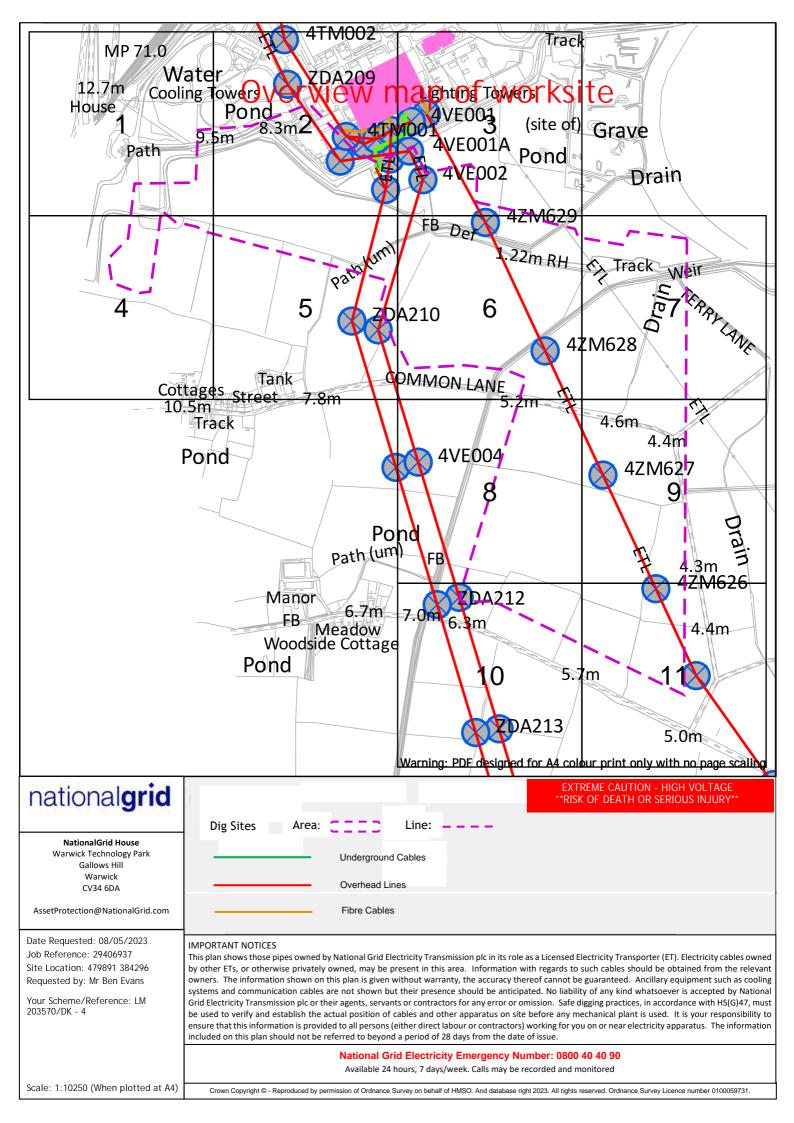
#### **Overhead Lines**

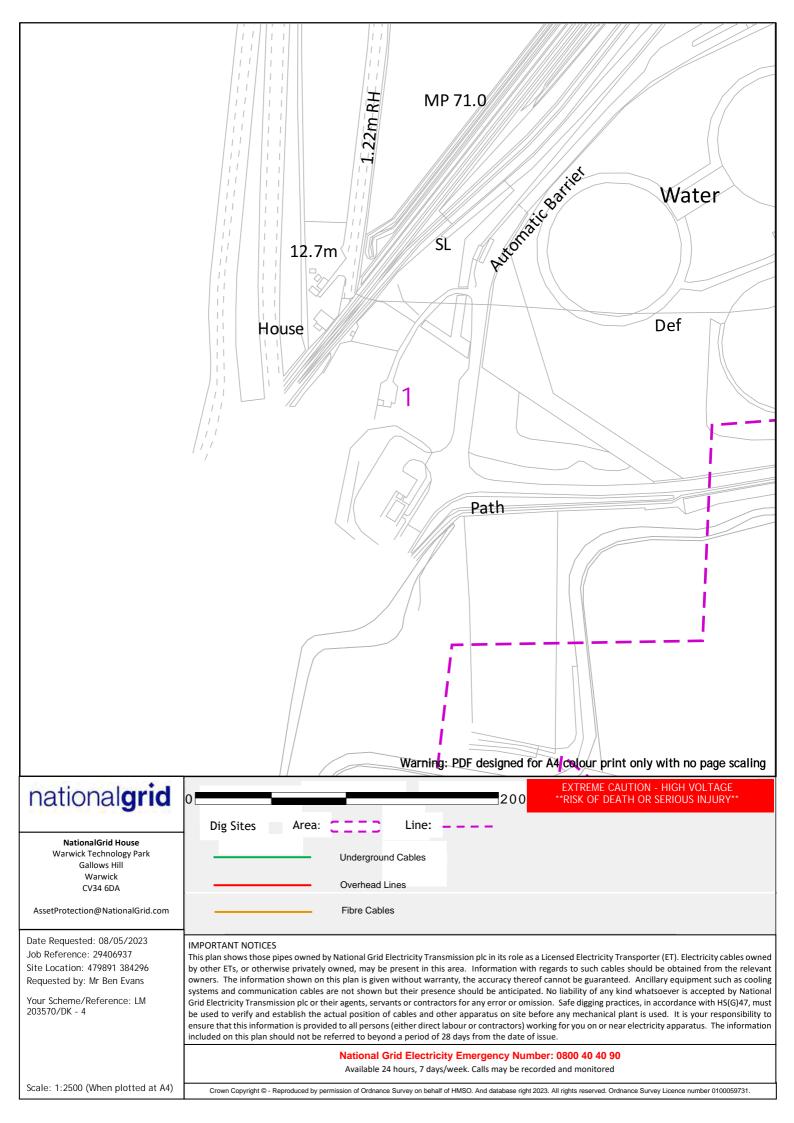
- National Grid's Overhead Line/s is protected by a Deed of Easement/Wayleave Agreement which provides full right of access to retain, maintain, repair and inspect our asset.
- The submitted proposed design does not change after the date of this letter. Any design change that moves the proposal closer to National Grid Overhead Line Assets shall be submitted for assessment.
- Statutory electrical safety clearances shall be maintained at all times. National Grid recommends that no permanent structures are built directly beneath our overhead lines. These distances are set out in EN 43 8 Technical Specification for "Overhead Line Clearances Issue 5 (2019). To purchase & download EN 43 8 Technical Specification for "Overhead Line Clearances Issue 5 (2019) go to https://www.ena-eng.org/ENA-Docs/
- Any changes in ground levels which are proposed either beneath or in close proximity to our existing overhead lines would serve to reduce safety clearances. Safety clearances to existing overhead lines must be maintained in all circumstances.
- To view the Development Near Overhead Lines Document. https://www.nationalgridet.com/document/130626/download
- To view the National Grid Third Party Guidance for working near National Grid Electricity Transmission equipment. https://www.nationalgridet.com/sites/et/files/documents/Working%20near%20electricity%20equipment.pd f
- The relevant guidance in relation to working safely near to existing overhead lines is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance Note GS 6 "Avoidance of Danger from Overhead Electric Lines."

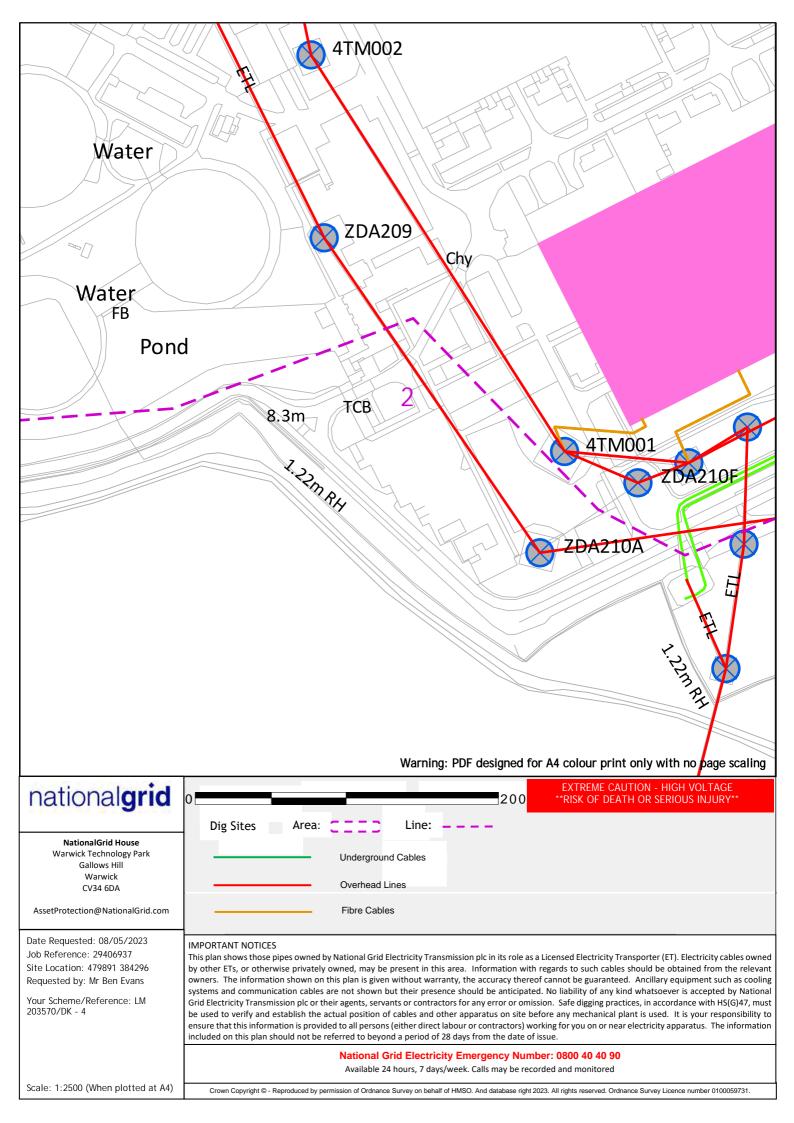
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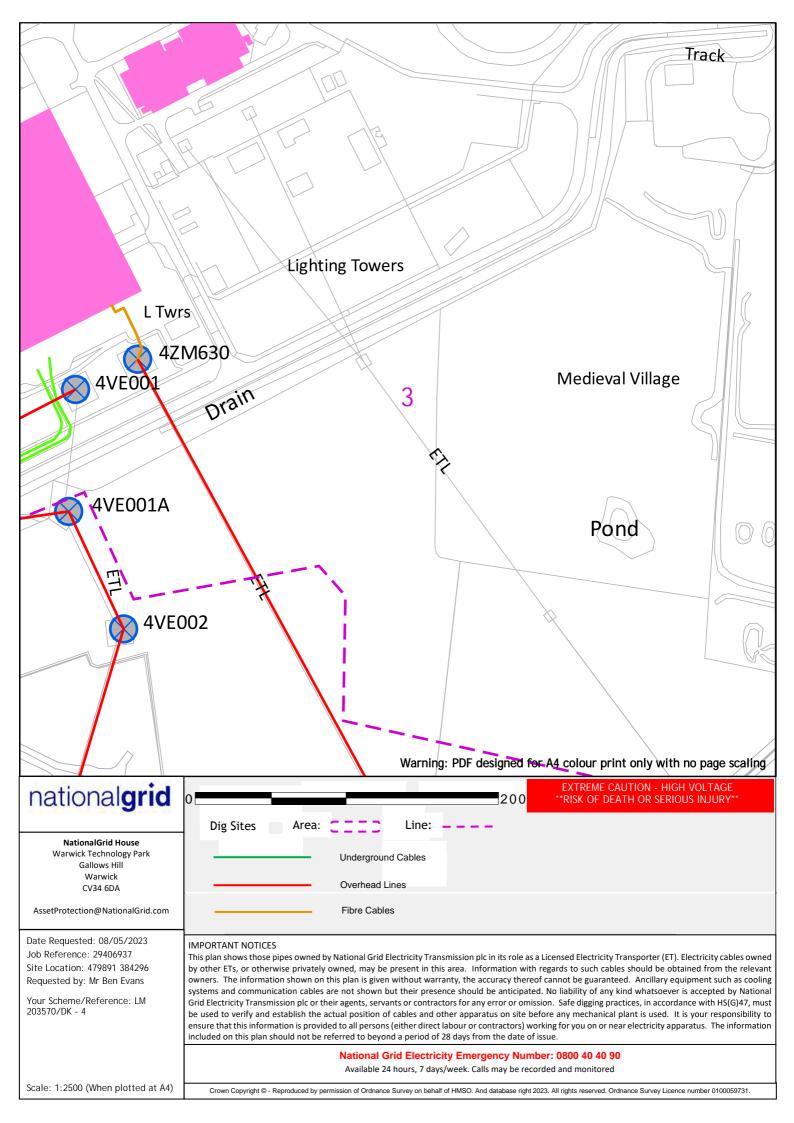
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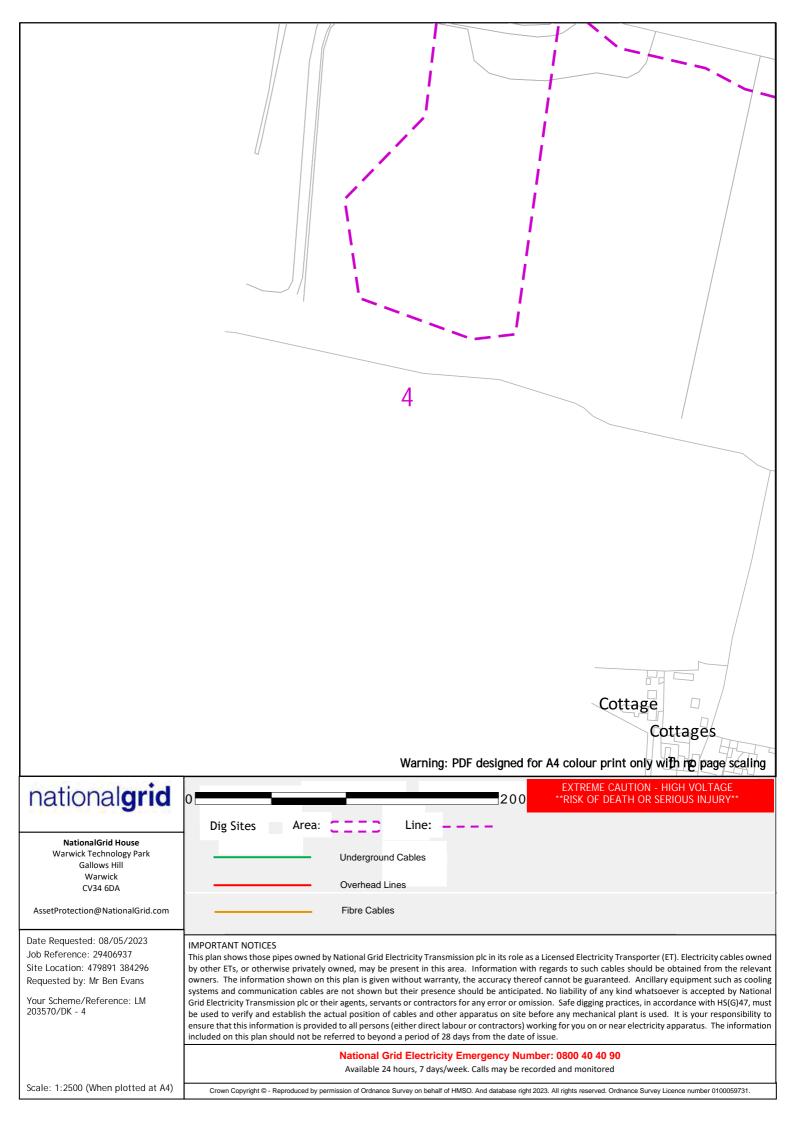
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- Due to the scale, bulk and cost of the transmission equipment required to operate at 275kV or 400kV we only support proposals for the relocation of existing high voltage overhead lines where such proposals directly facilitate a major development or infrastructure project of national importance which has been identified as such by government.
- To promote the successful development of sites crossed by existing overhead lines, and the creation of welldesigned places, National Grid has produced 'Design guidelines for development near pylons and high voltage overhead power lines', which look at how to create high quality development near overhead lines and offer practical solutions which can assist in avoiding the unnecessary sterilisation of land in the vicinity of high voltage overhead lines.
- Further information regarding our undergrounding policy and development near transmission overhead lines is available on our website at: https://www.nationalgridet.com/network-and-assets/planning-and-development

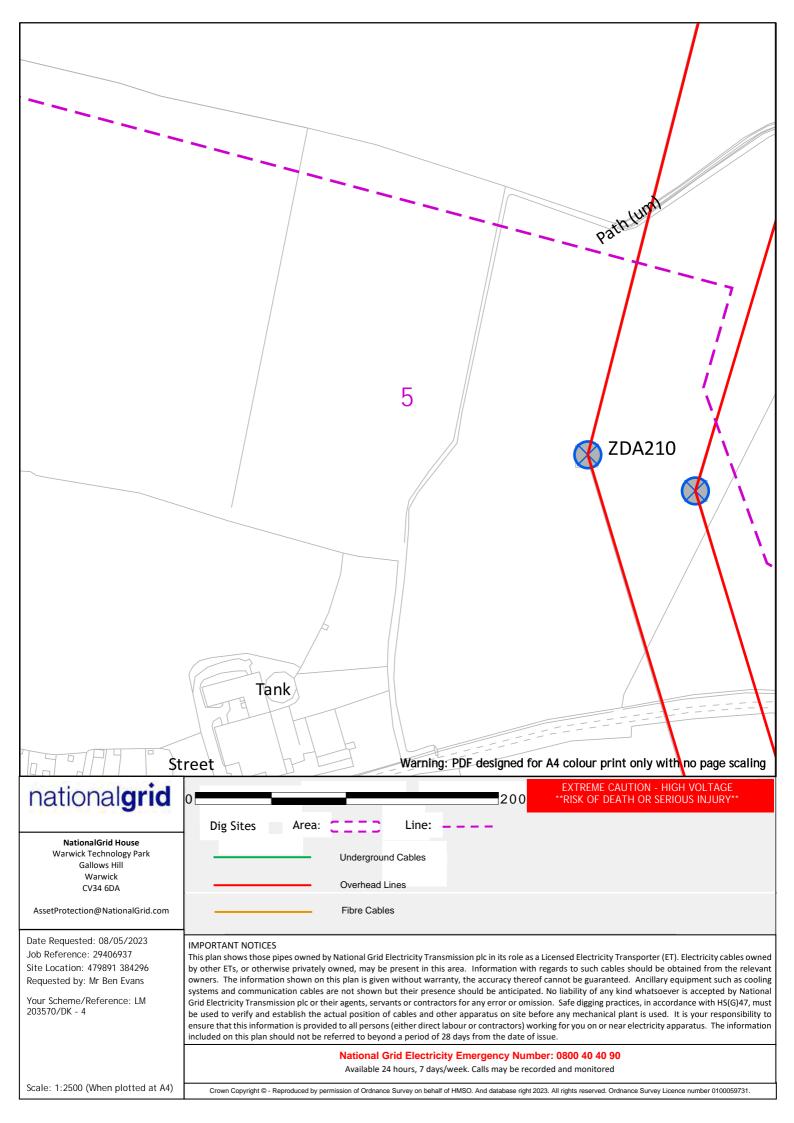


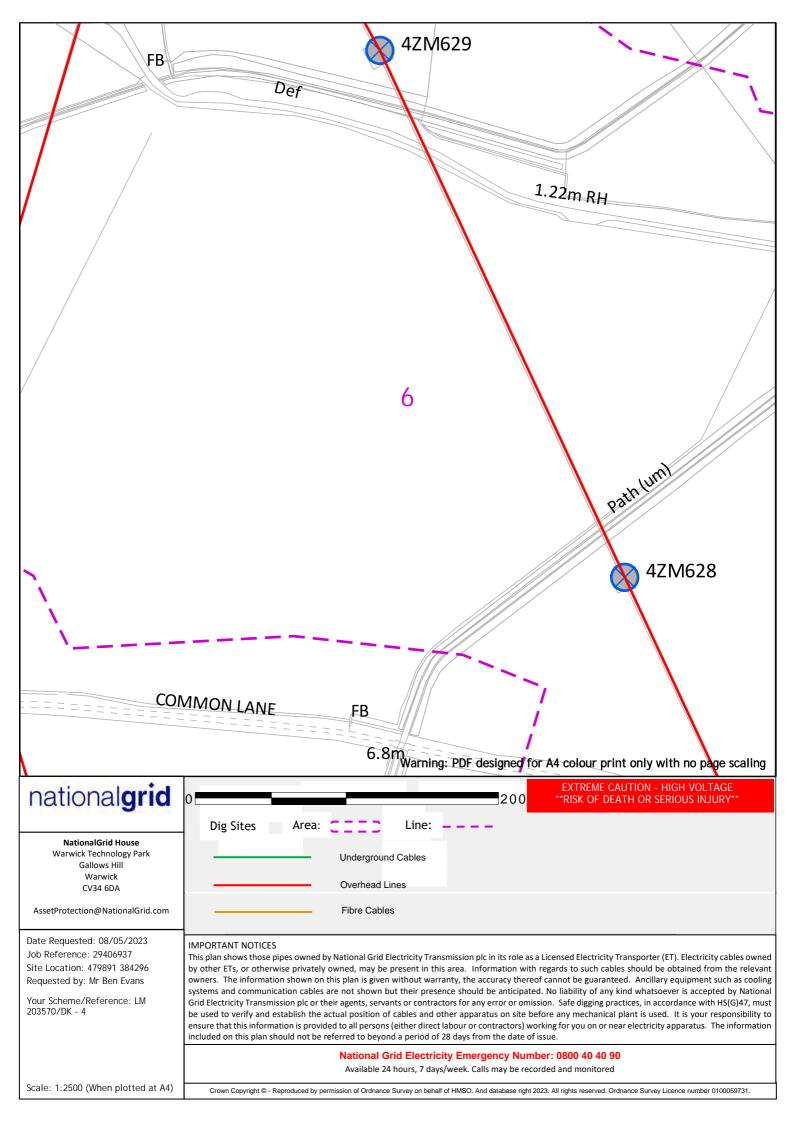


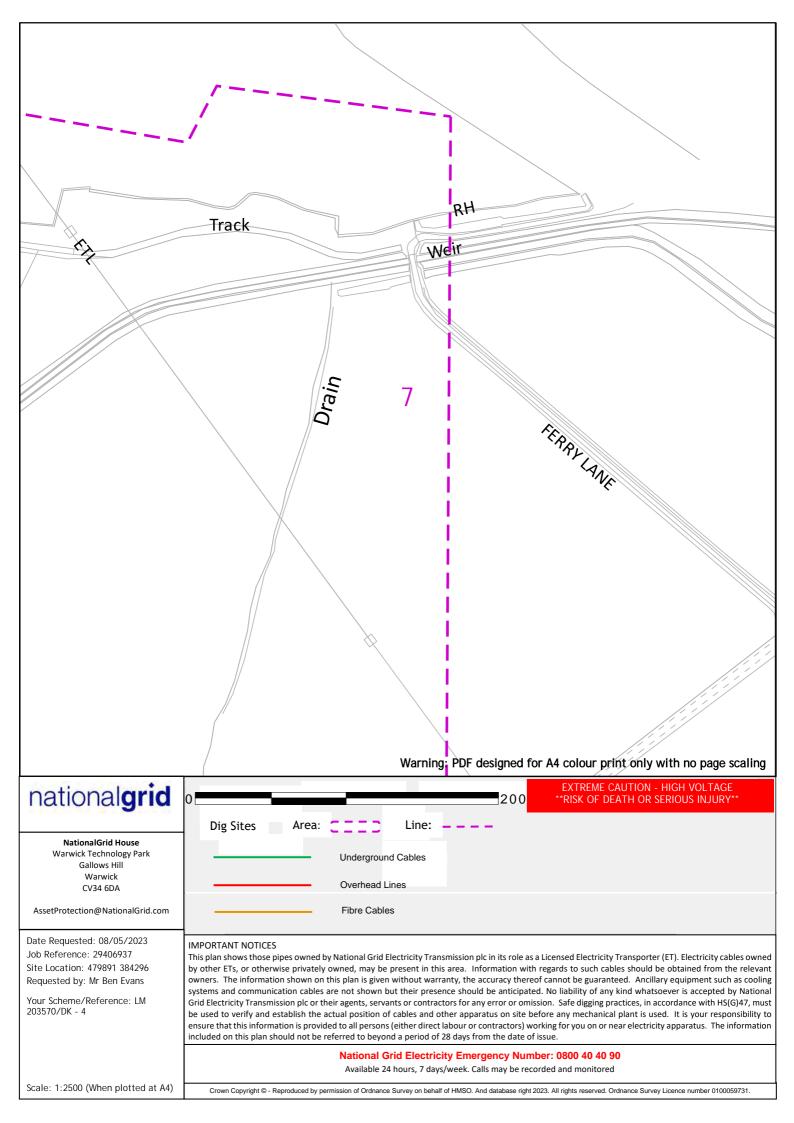


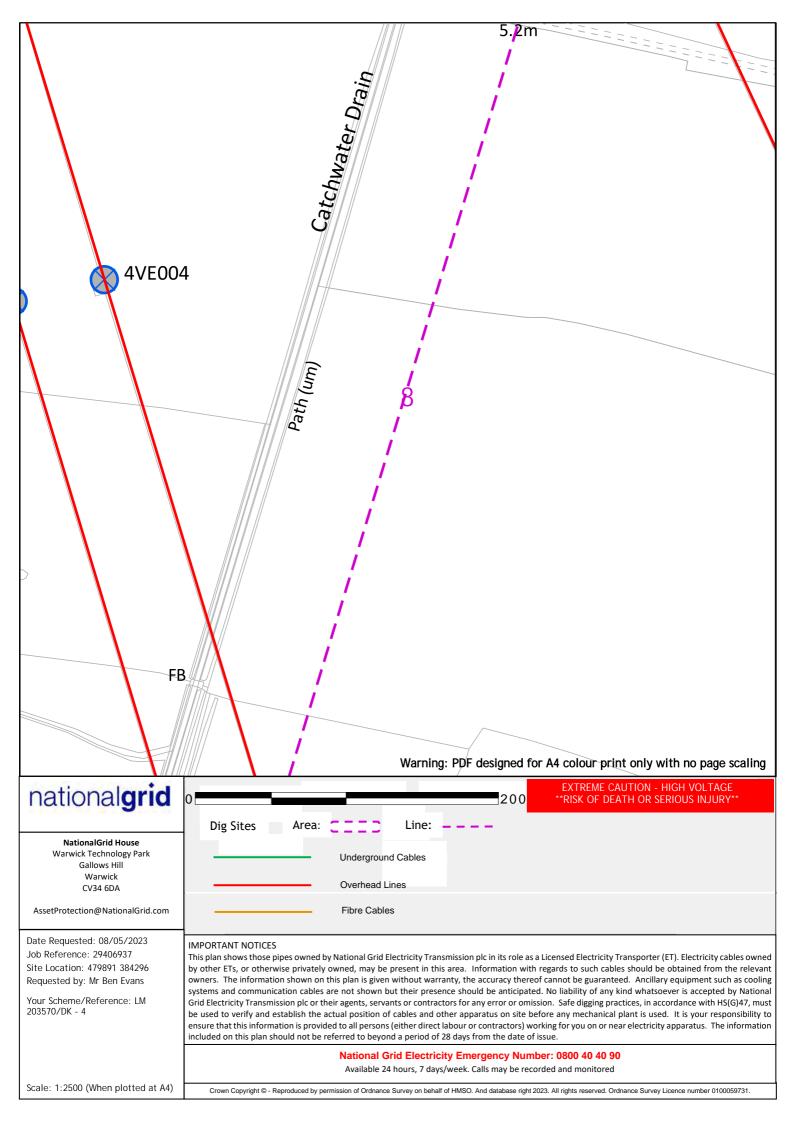


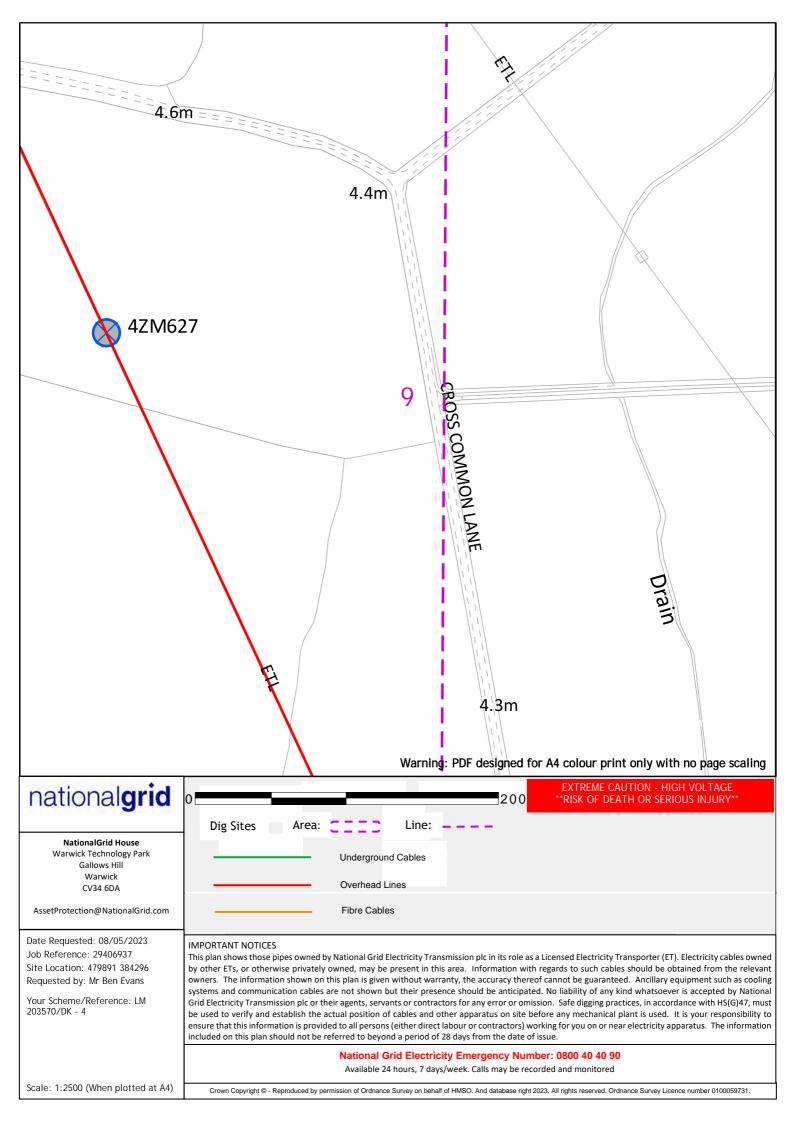


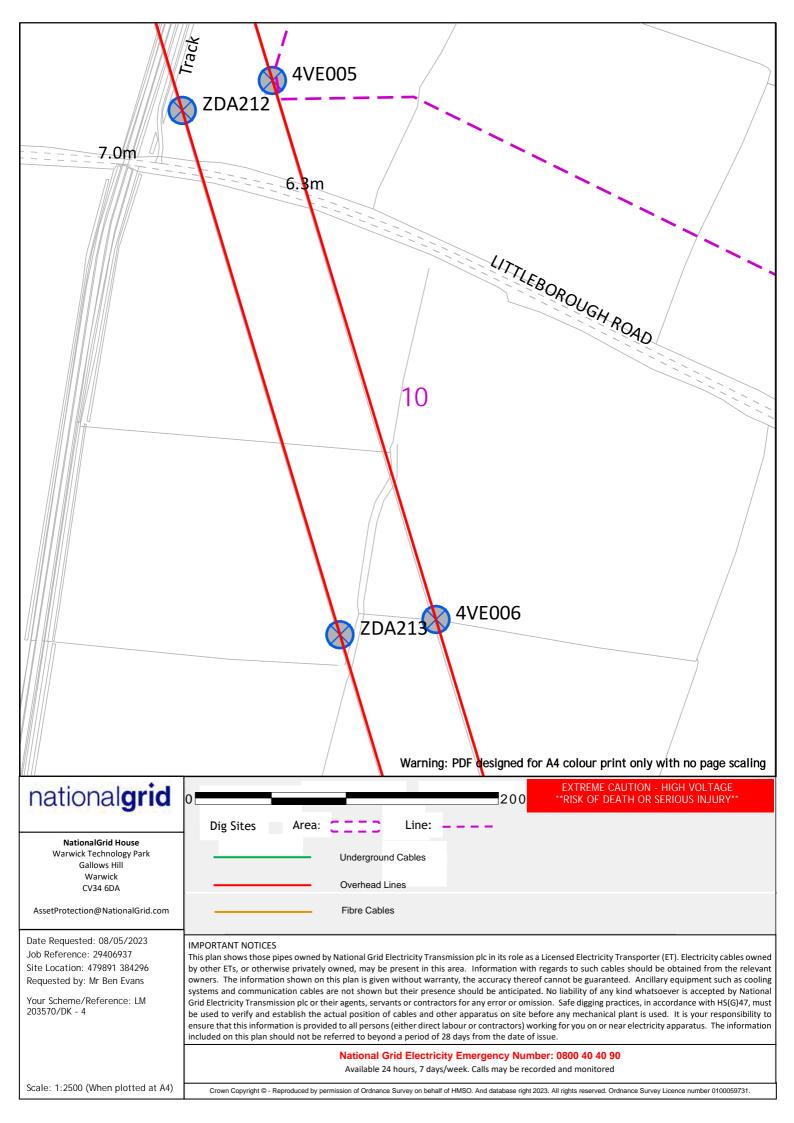


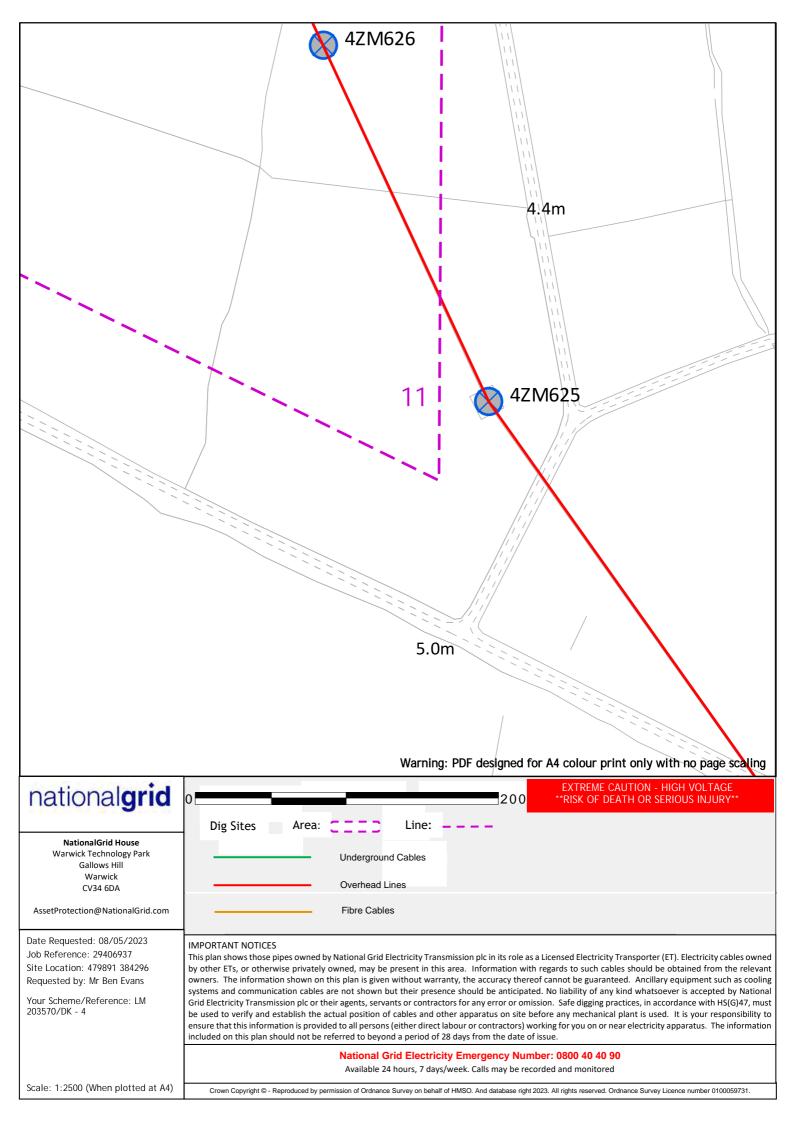












# **ENQUIRY SUMMARY**

Received Date 08/05/2023 9:33

Work Start Date 30/05/2023

Your Reference LM 203570/DK - 4

Location Centre Point: 479891 384296 X Extent: Y Extent: Postcode: DN229HH

### Map Options

Paper Size: A4 Orientation: PORTRAIT Scale: 1:2500 Real World Extents: 1568m x 1602m

**Enquirer Details** 

Organisation Name: Atkins - Utility Solutions Contact Name: Ben Evans Email Address: searches.utilitysolutions@atkinsglobal.com Telephone: 01454662086 Address: The Hub, 500 Park Avenue, Aztec West, , Bristol, BS32 4RZ

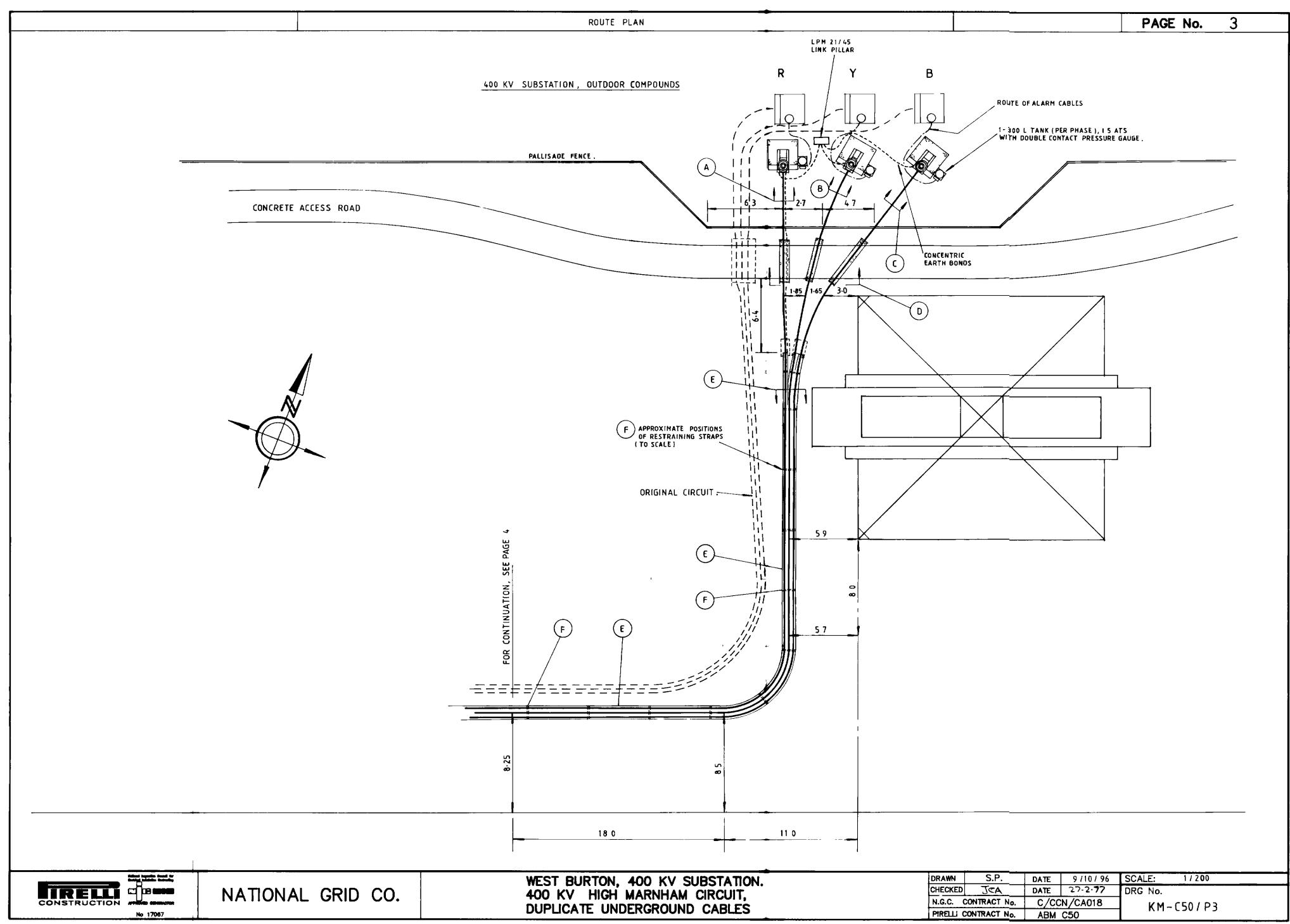
Enquiry Type Initial Enquiry

Activity Type Utility Works Work Types Single excavations site (deeper than 1.5m)

### Notes/Works Description (if supplied)

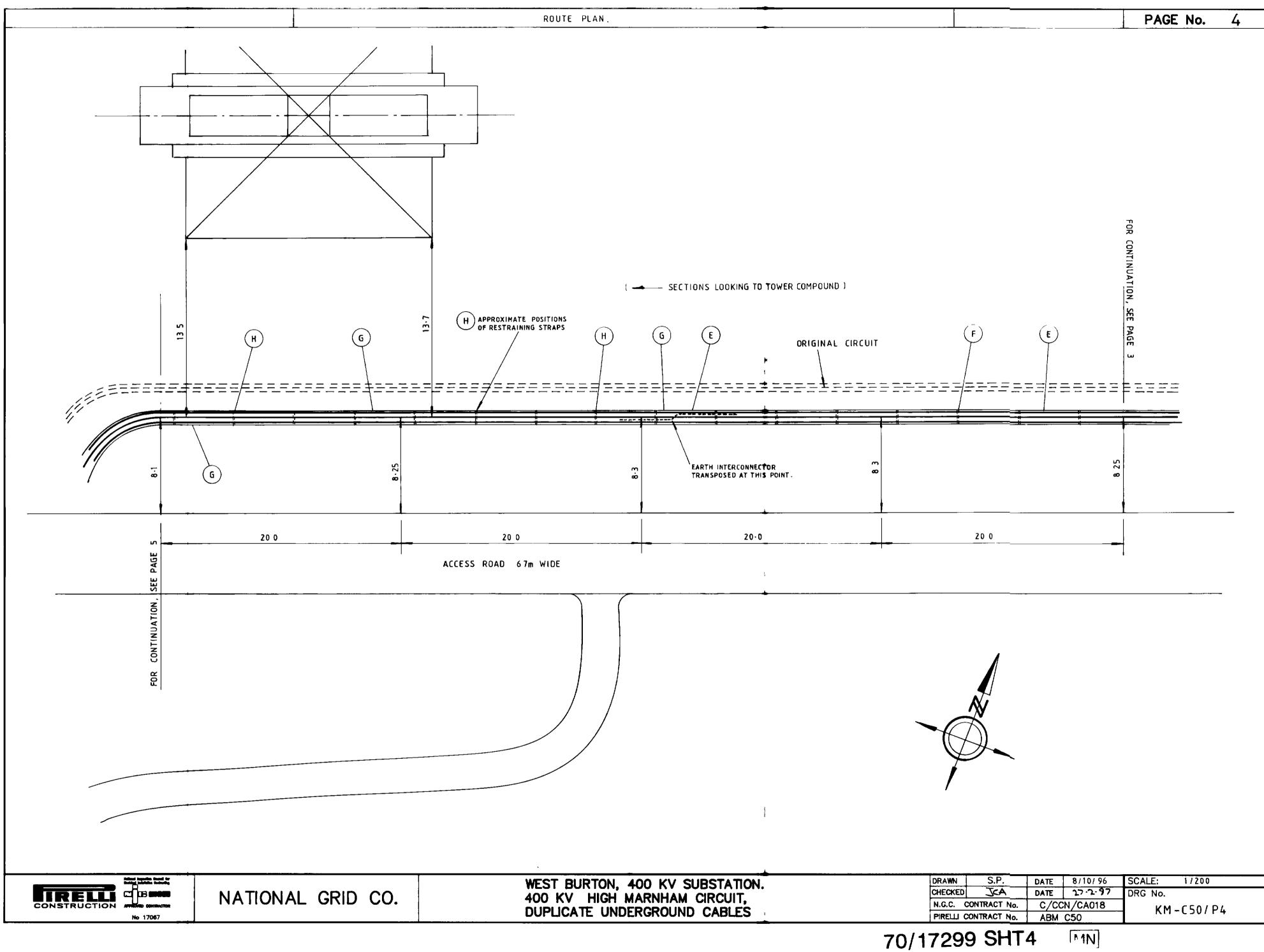
## Site Contact Name (if supplied)

Site Contact Number (if supplied)

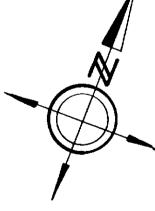


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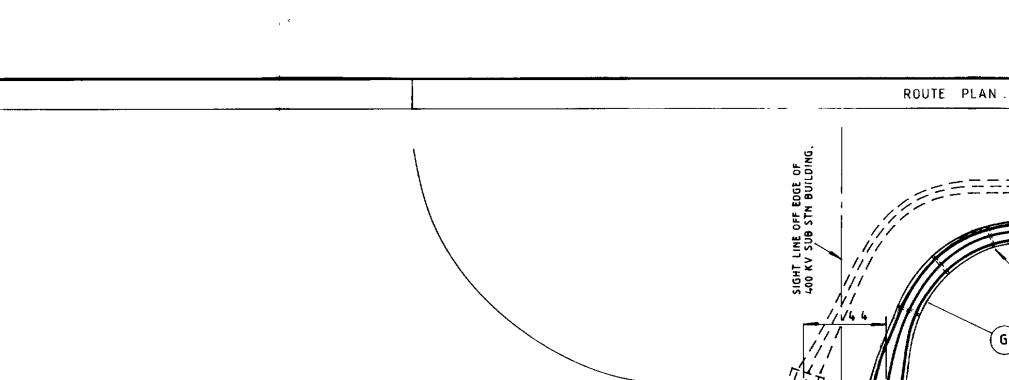
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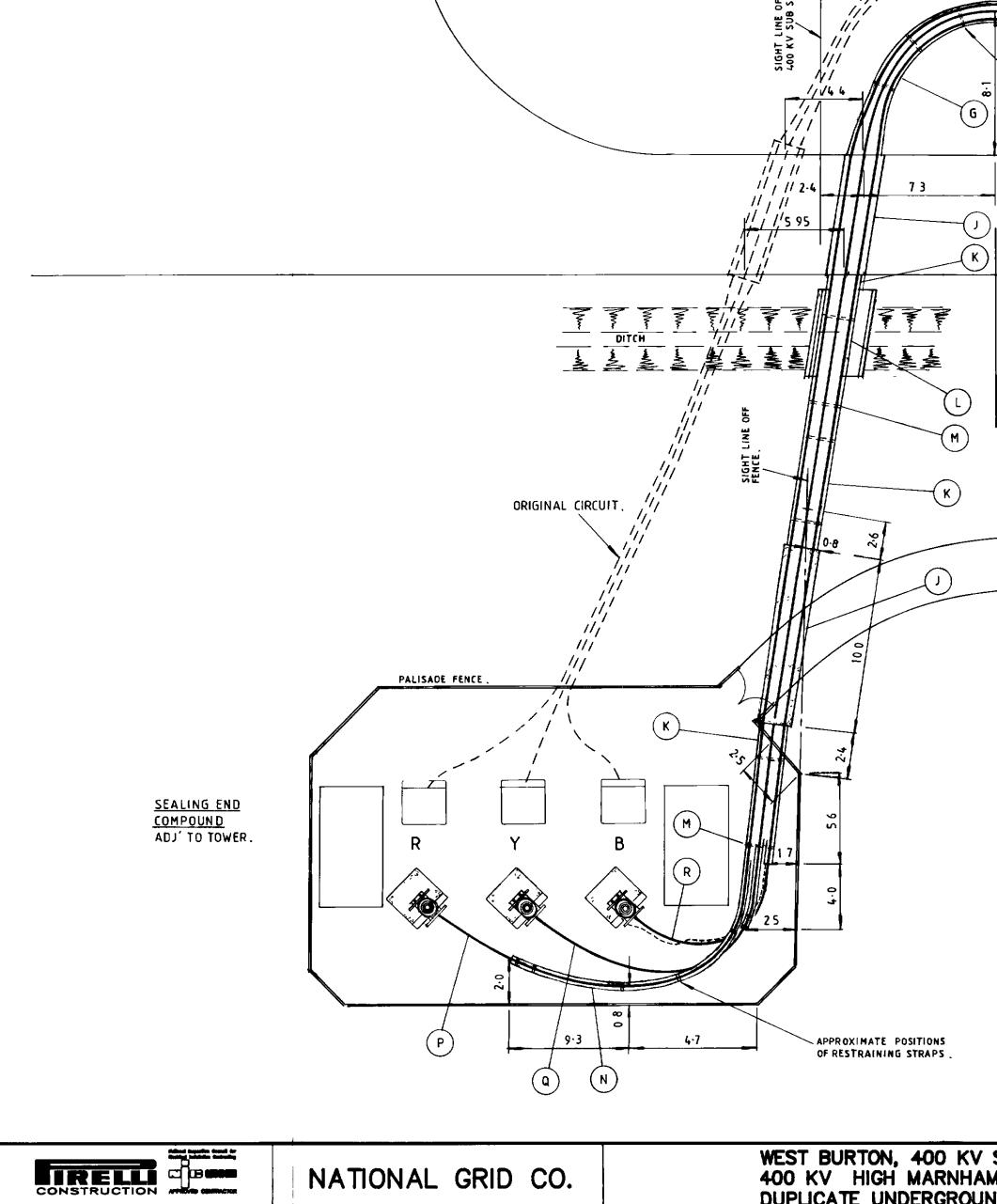


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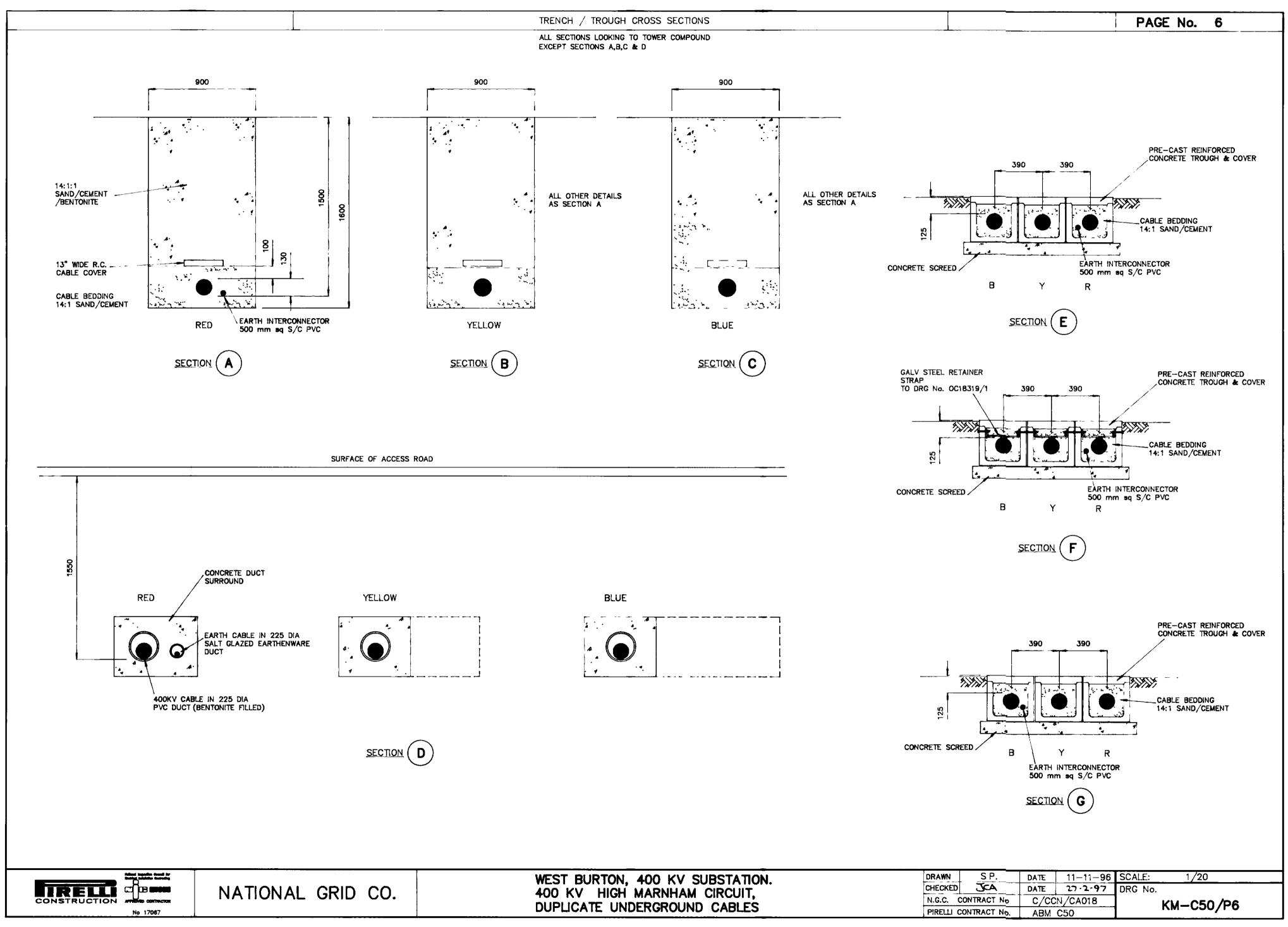


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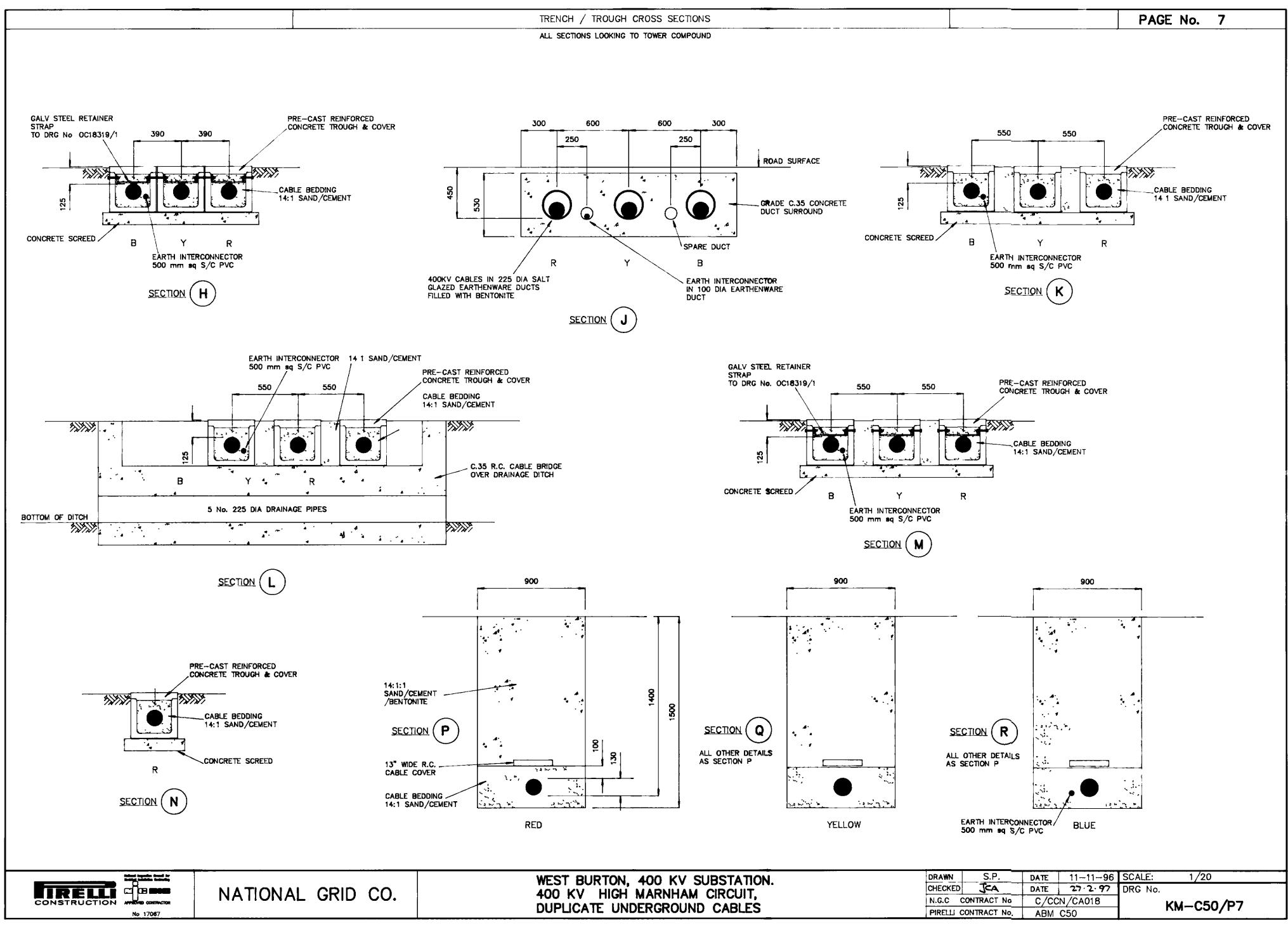
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# 70/17299 SHT5 [MN]

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# 70/17299 SHT6 M



# 70/17299 SHT7



Our Ref: 29406940 LM 203570/DK - 5

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West

Bristol BS32 4RZ



National Grid House Warwick Technology Park Gallows Hill, Warwick CV34 6DA

Electricity Emergency Number: 0800 40 40 90\* \*Available 24 hours, 7 days/week. Calls may be recorded and monitored. www.nationalgrid.com

Asset Protection Gas Transmission National Grid Warwick Email: assetprotection@nationalgrid.com

#### National Grid Electricity – High Risk Response Letter

Dear Sir/ Madam,

An assessment has been carried out with respect to National Grid Electricity Transmission plc's apparatus and the proposed work location. Based on the location entered into the system for assessment the area has been found to be within the High Risk zone from National Grid Electricity Transmission plc's apparatus and **Must Not Proceed** without further assessment by Asset Protection.

Could you please send a works description (including how deep you are excavating) and any plans including any commencement dates to the following email address assetprotection@nationalgrid.com including the LSBUD enquiry reference number.

Failure to provide this information will result in a delay to your works being assessed.

Please note this response and any attached map(s) are valid for 28 days from date of this letter. A new enquiry will need to be submitted into LSBUD if the requested information above is not supplied within 28 days.

Yours sincerely,

**Asset Protection** 



# Your Responsibilities and Obligations

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

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

This assessment solely relates to National Grid Electricity Transmission plc (NGET)

This assessment does **NOT** include:

• National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact Asset Protection.

- Recently installed apparatus
- National Grid Gas plc.

• Apparatus owned by other organisations, e.g. Cadent, other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid Electricity Transmission plc easements or wayleaves nor any planning or building regulations applications.

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

If you require further assistance please contact the Asset Protection team via e-mail (assetprotection@nationalgrid.com) or via the contact details at the top of this response.



## Assessment

#### Affected Apparatus

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

• Electricity Transmission Overhead Line apparatus.

#### Requirements

#### **Over Head Lines**

BEFORE carrying out any work you must:

(N.B. Works only to be undertaken when contact has been made and response received from Asset Protection) - Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.

- Contact the landowner and ensure any proposed works in private land do not infringe National Grid Electricity Transmission plc's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.

- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid Electricity Transmission plc's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at www.hse.gov.uk

- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

DURING any work you must:

- Comply with all guidance for working within the vicinity of overhead lines as detailed within the guidance documents listed below.

- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.

- Ensure that access to National Grid Electricity Transmission plc's apparatus is maintained at all times.

- Prevent the placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over National Grid Electricity Transmission plc's apparatus unless specifically agreed with National Grid Electricity Transmission plc's apparatus in advance.

- Exercise extreme caution if slab (mass) concrete is encountered during excavation works as this maybe protecting or supporting National Grid Electricity Transmission plc's apparatus.

#### **Underground Cables**

BEFORE carrying out any work you must:

(N.B. Works only to be undertaken when contact has been made and response received from Asset Protection)

- Refer to the attached cable profile drawings which provide details about the location of National Grid's high voltage underground cables.

- Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.

- Contact the landowner and ensure any proposed works in private land do not infringe infringe National Grid Electricity Transmission plc's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.

- Ensure that all persons, including direct labour and contractors, working for you on or near infringe National Grid Electricity Transmission plc's follow the requirements of the HSE Guidance Notes HS(G)47 "Avoiding Danger From Underground Services". This guidance can be downloaded free of charge at www.hse.gov.uk

- In line with the above guidance, verify and establish the actual position of mains, pipes, cables,





services and other apparatus on site before any activities are undertaken.

DURING any work you must:

- Comply with all guidance for working within the vicinity of Electricity Underground Cables as detailed within the guidance documents listed below.

- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.

- Ensure that access to National Grid Electricity Transmission plc's apparatus is maintained at all times.

- Prevent the placing of heavy construction plant, equipment, materials or the passage of heavy

vehicles over National Grid Electricity Transmission plc's apparatus unless specifically agreed with National Grid Electricity Transmission plc's in advance.

- Exercise extreme caution if slab (mass) concrete is encountered during excavation works as this maybe protecting or supporting National Grid Electricity Transmission plc's apparatus.



## **GUIDANCE**

#### National Grid Electricity Transmission Network data

• The Network map for National Grid Electricity Transmission assets can be downloaded at the following link in GIS format.

https://www.nationalgrid.com/uk/electricity-transmission/network-and-infrastructure/network-route-maps

#### **Buried Cables**

- National Grid's underground cables are protected by a Deed of grant; Easement; Wayleave Agreement or the provisions of the New Roads and Street Works Act. Which provide full right of access to retain, maintain, repair and inspect our asset. Hence we require that no permanent structures are to be built over our cables or within the easement strip.
- Ground levels above our cables must not be altered in any way. Any alterations to the depth of our cables will subsequently alter the rating of the circuit and can compromise the reliability, efficiency and safety of our electricity network.
- The supplied detailed route records should not be taken as positive indication of the cable location. This can only be determined by digging trial holes. Where trial holes are dug the concrete and / or polymeric cable protection tiles must not be disturbed.
- The normal recommendation is to keep 2 metres clear either side of the 1 metre wide trench containing the AC cable.
- National Grid should be made aware of the works starting and may put in place a representative to monitor the works. The works should be carried out in accordance with the recommendations in document HS (G) 47 available from the HSE web site.
- The relocation of existing underground cables is not normally feasible on grounds of cost, operation and maintenance and environmental impact and we believe that successful development can take place in their vicinity.
- The information supplied is given in good faith and only as a guide to the location of our underground cables. The accuracy of this information cannot be guaranteed. The physical presence of such cables may also be evident from physical protection measures such as ducts or concrete protection tiles. The person(s) responsible for planning, supervising and carrying out work in proximity to our cable(s) shall be liable to us, as cable(s) owner, as well as to any third party who may be affected in any way by any loss or damage resulting from their failure to locate and avoid any damage to such a cable(s).
- The relevant guidance in relation to working safely near to existing underground cables is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance HS(G)47 "Avoiding Danger From Underground Services" and all relevant site staff should make sure that they are both aware of and understand this guidance.
- Our cables are normally buried to a depth of 0.9 metres to the protective covers but this depth can vary depending on location (bridges may have cables 100mm below surface level)..The specific cable route record drawings show further details along the route of the particular cable. The cable route drawings are attached to this letter for your information.
- Cables installed in cable tunnels, whilst less likely to be affected by surface or shallow works may be affected by activities such as piling.
- National Grid assets can be adversely affected by vibration and can provide guidance on the acceptable levels of vibration due to piling and other construction related operations in the vicinity of national grid assets

Ground cover above our cables should not be reduced or increased without consultation with National Grid.
National Grid is a trading name for:
National Grid Electricity Transmission plc
Registered Office: 1-3 Strand, London WC2N 5EH
Registered in England and Wales, No 2366977

 If a landscaping scheme is proposed as part of the works, we request that no trees and shrubs are planted either directly above or within 3 metres of the existing underground cable, as ultimately the roots may grow to cause damage to the cable.

before

### **Cables Tunnels**

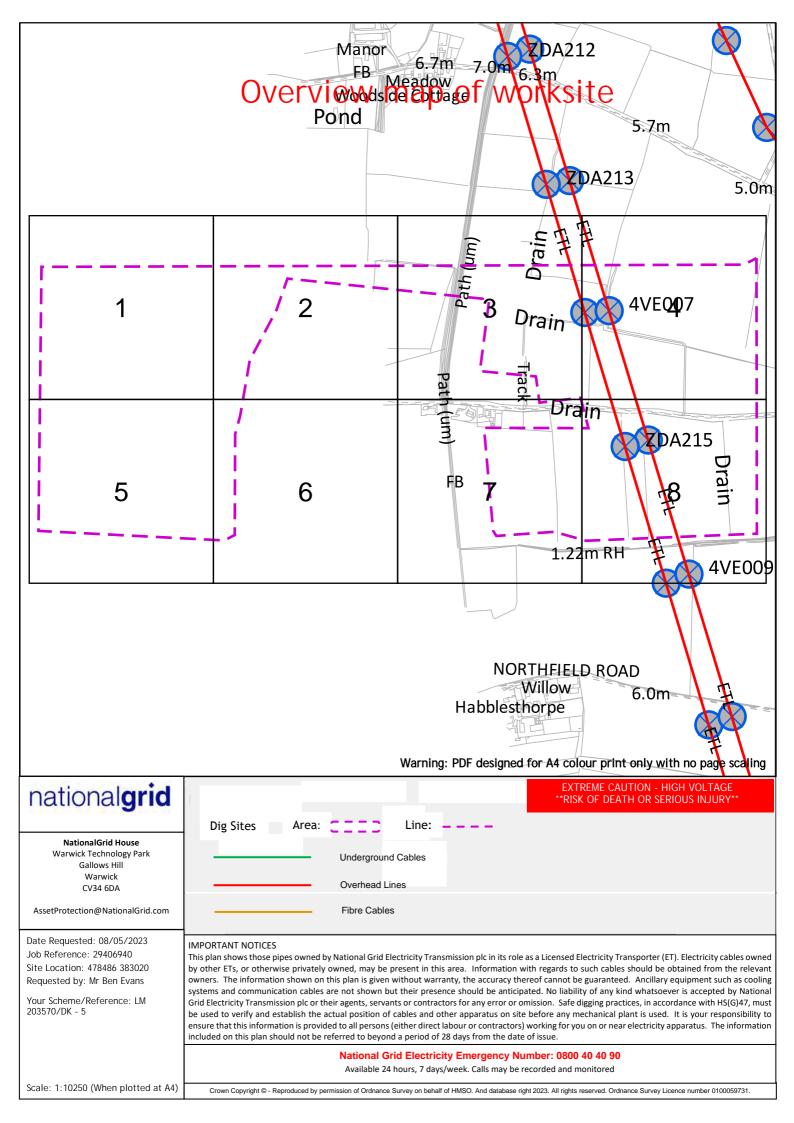
- National Grid's underground cable tunnels are protected by the provisions of a Wayleave/Easement or the New Roads and Street Works Act. This provides full right of access to retain, maintain, repair and inspect our asset.
- Further information and guidance regarding National Grid Cable Tunnels is available on our website at https://www.nationalgrid.com/uk/electricity-transmission/document/121061/download
- National Grid requires that the clearances indicated in the guidance document linked above are maintained at all times. Should it be necessary to enter the exclusion zone discussion/ agreement with National Grid is required to ensure the integrity of their tunnel asset and the high voltage cables is not compromised.
- Ground levels above our cable tunnels must not be altered in any way without prior agreement with National Grid; any alterations to the depth of our tunnels can compromise its integrity which could have an adverse impact on the reliability, efficiency and safety of our electricity network.
- Any works which would create high levels of vibration such as piling would need to be assessed by National Grid to ensure it has limited impact on our cable tunnels. National Grid can advise on acceptable vibration limits.

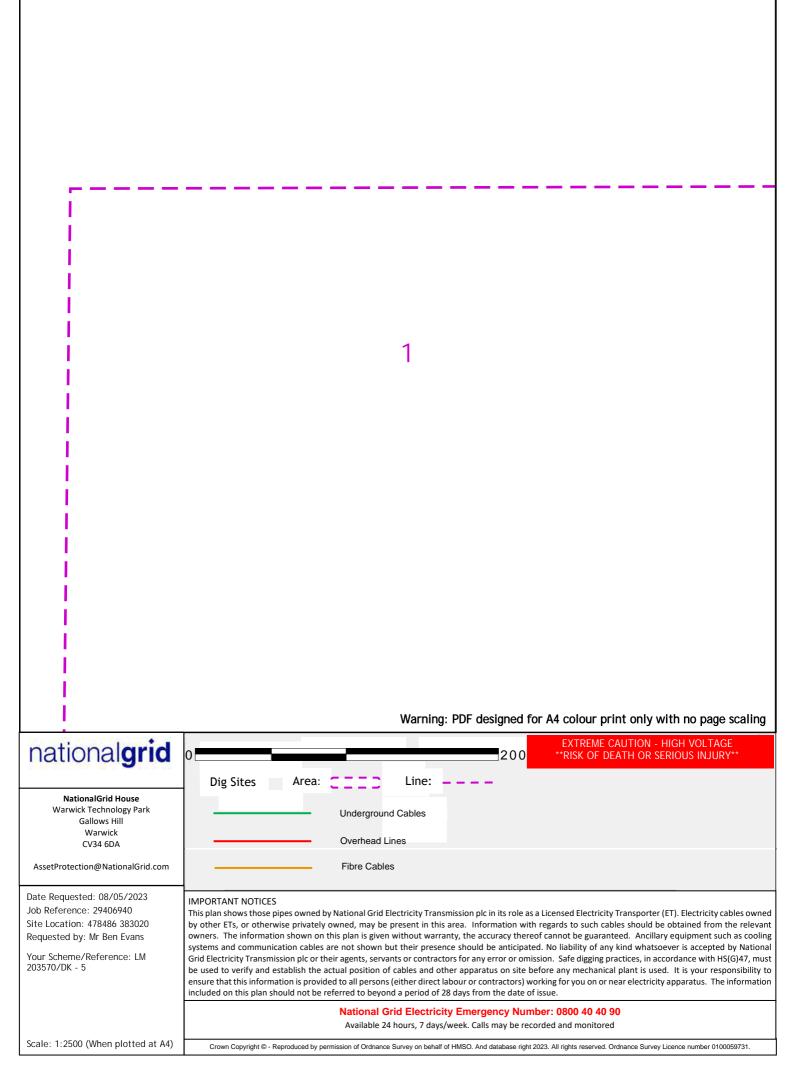
#### **Overhead Lines**

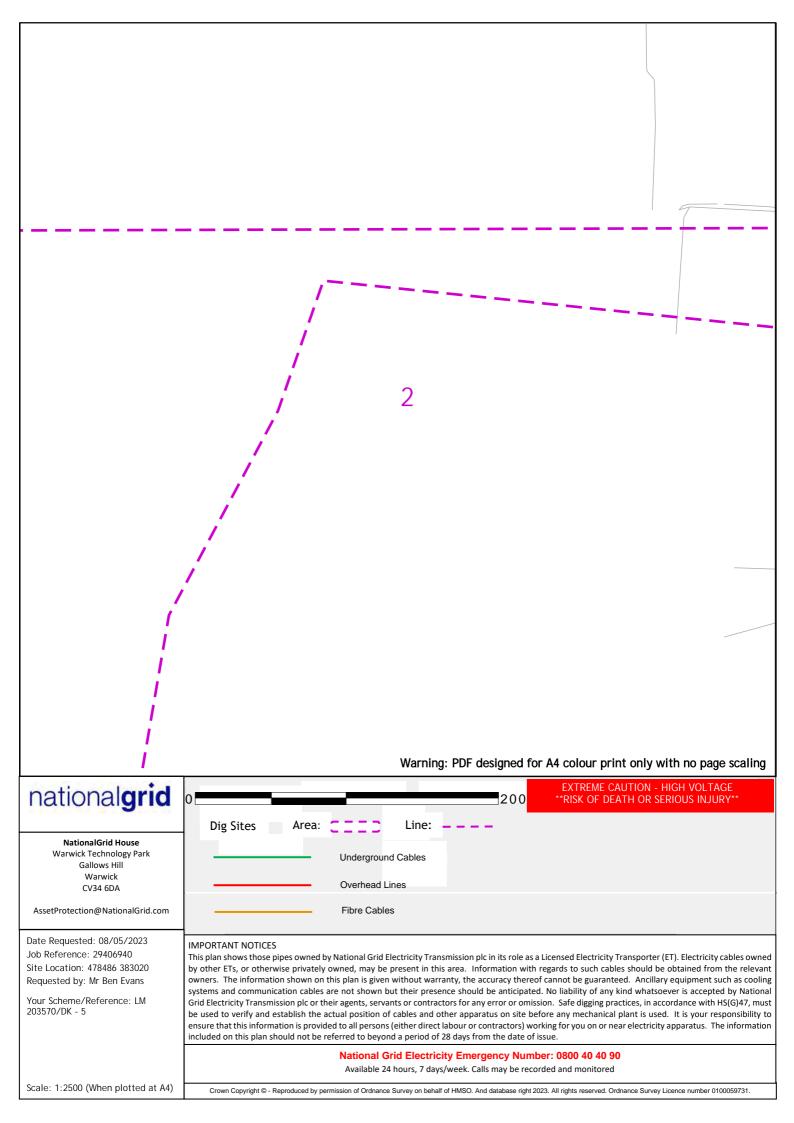
- National Grid's Overhead Line/s is protected by a Deed of Easement/Wayleave Agreement which provides full right of access to retain, maintain, repair and inspect our asset.
- The submitted proposed design does not change after the date of this letter. Any design change that moves the proposal closer to National Grid Overhead Line Assets shall be submitted for assessment.
- Statutory electrical safety clearances shall be maintained at all times. National Grid recommends that no permanent structures are built directly beneath our overhead lines. These distances are set out in EN 43 8 Technical Specification for "Overhead Line Clearances Issue 5 (2019). To purchase & download EN 43 8 Technical Specification for "Overhead Line Clearances Issue 5 (2019) go to https://www.ena-eng.org/ENA-Docs/
- Any changes in ground levels which are proposed either beneath or in close proximity to our existing overhead lines would serve to reduce safety clearances. Safety clearances to existing overhead lines must be maintained in all circumstances.
- To view the Development Near Overhead Lines Document. https://www.nationalgridet.com/document/130626/download
- To view the National Grid Third Party Guidance for working near National Grid Electricity Transmission equipment. https://www.nationalgridet.com/sites/et/files/documents/Working%20near%20electricity%20equipment.pd f

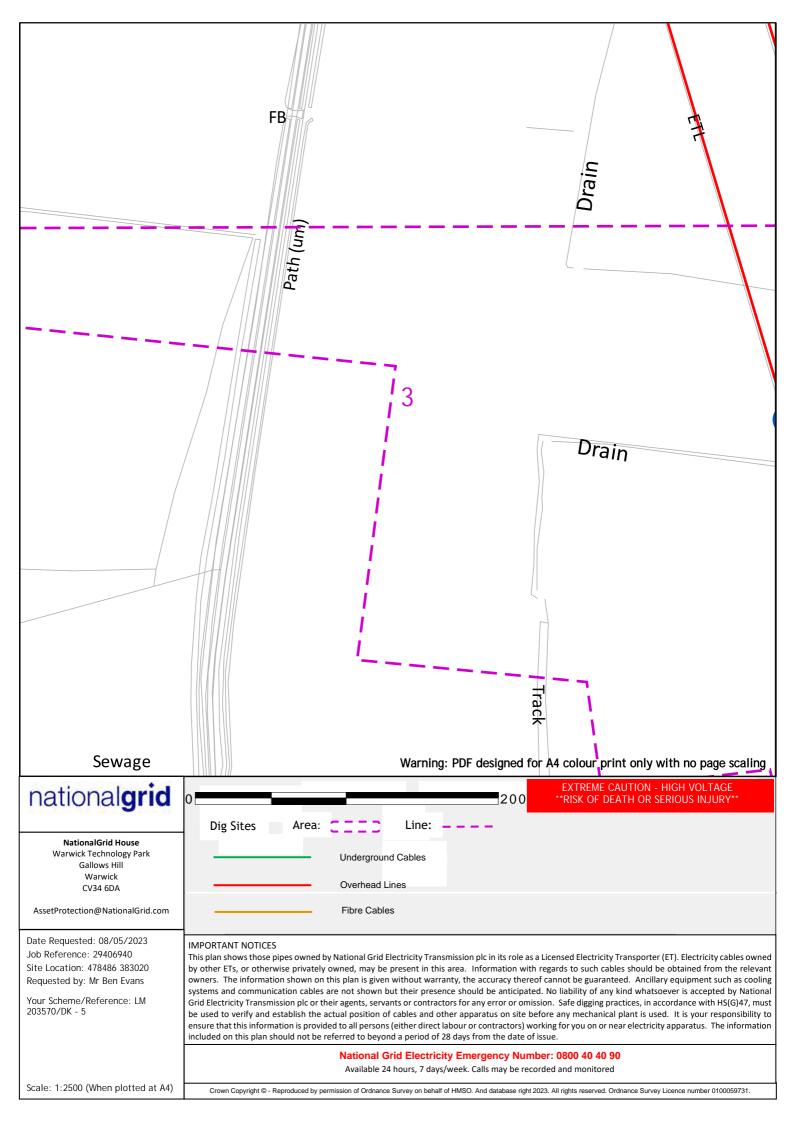


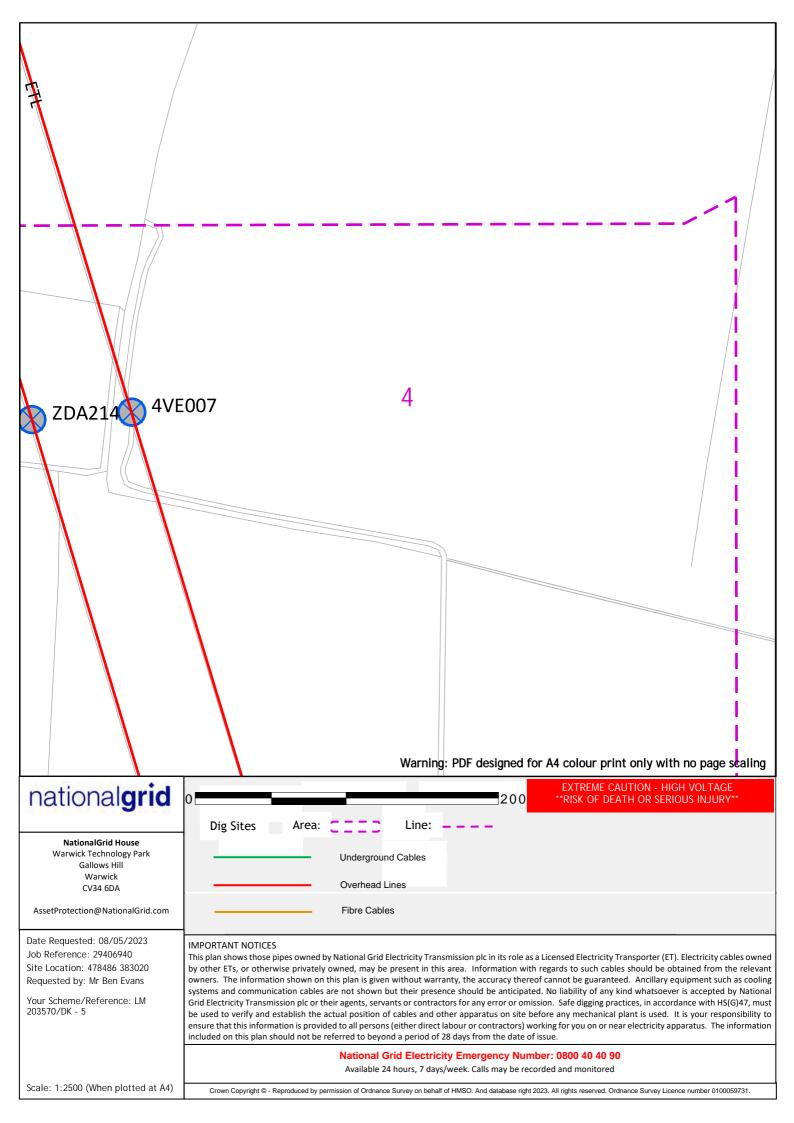
- The relevant guidance in relation to working safely near to existing overhead lines is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance Note GS 6 "Avoidance of Danger from Overhead Electric Lines."
- If a landscaping scheme is proposed as part of the proposal, only slow and low growing species of trees and shrubs shall be planted beneath and adjacent to the existing overhead line to reduce the risk of growth to a height which compromises statutory safety clearances.
- Drilling or excavation works shall not be undertaken if they have the potential to disturb or adversely affect the foundations or "pillars of support" of our towers. These foundations extend beyond the base of the tower. Pillar of Support drawings shall be obtained using the contact details above.
- Due to the scale, bulk and cost of the transmission equipment required to operate at 275kV or 400kV we only support proposals for the relocation of existing high voltage overhead lines where such proposals directly facilitate a major development or infrastructure project of national importance which has been identified as such by government.
- To promote the successful development of sites crossed by existing overhead lines, and the creation of welldesigned places, National Grid has produced 'Design guidelines for development near pylons and high voltage overhead power lines', which look at how to create high quality development near overhead lines and offer practical solutions which can assist in avoiding the unnecessary sterilisation of land in the vicinity of high voltage overhead lines.
- Further information regarding our undergrounding policy and development near transmission overhead lines is available on our website at: https://www.nationalgridet.com/network-and-assets/planning-and-development

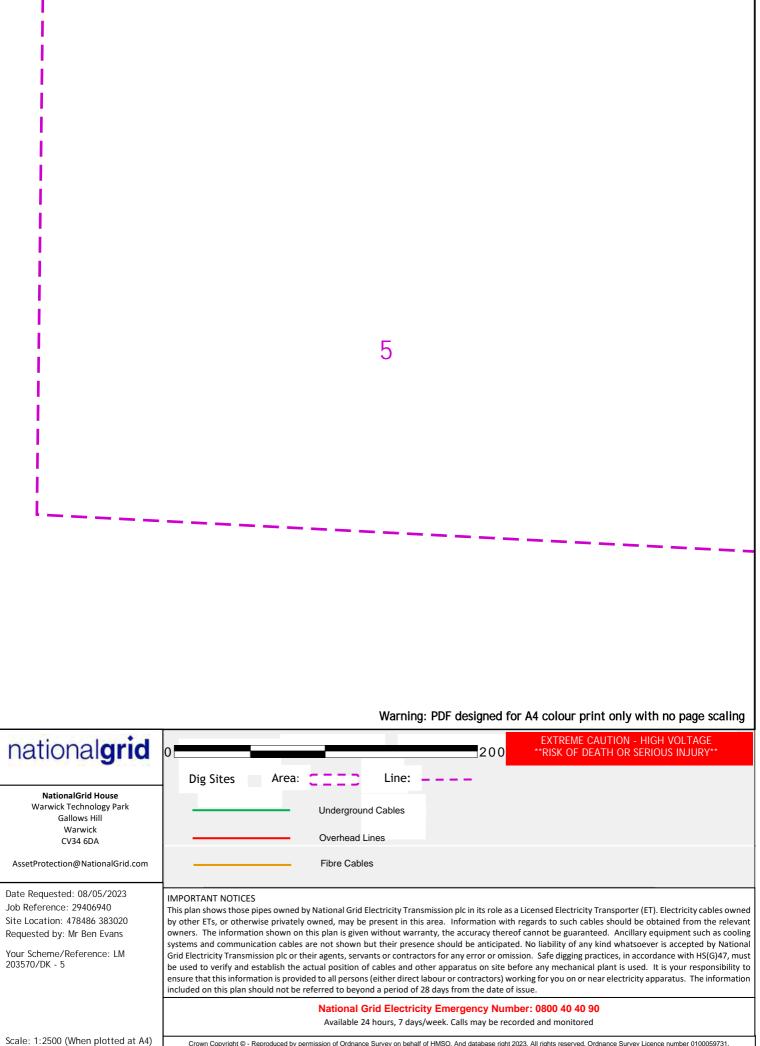






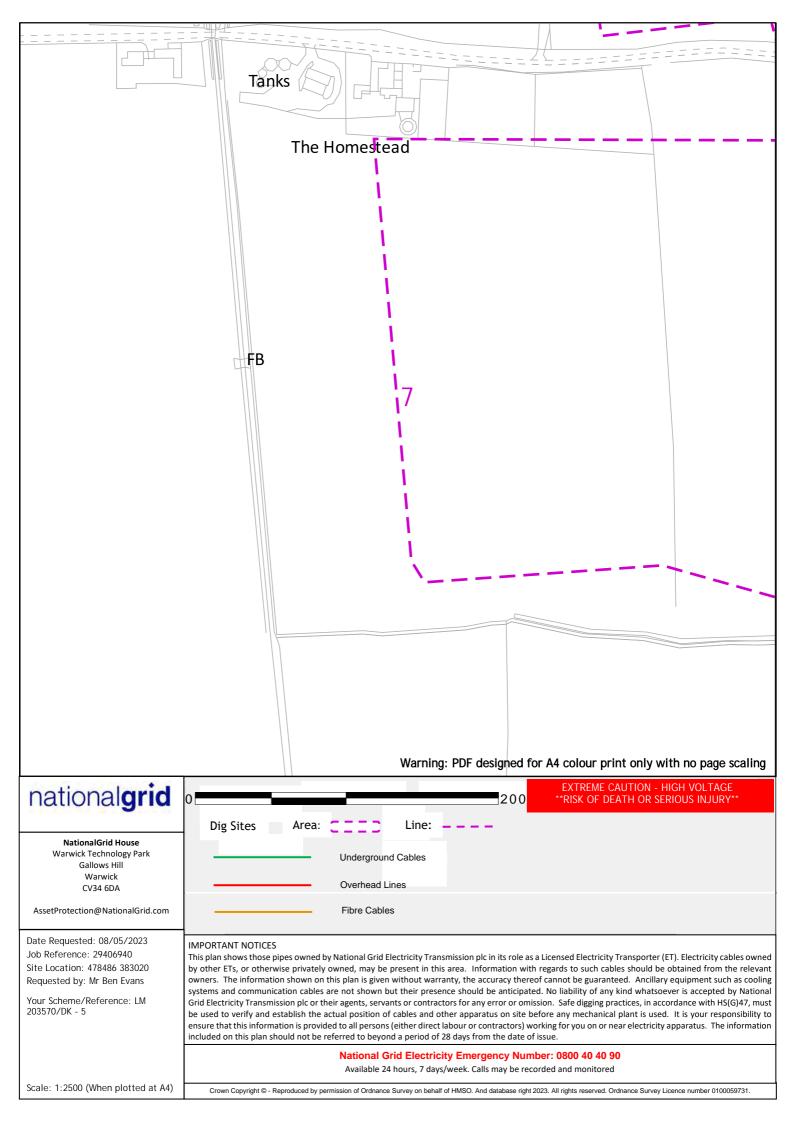


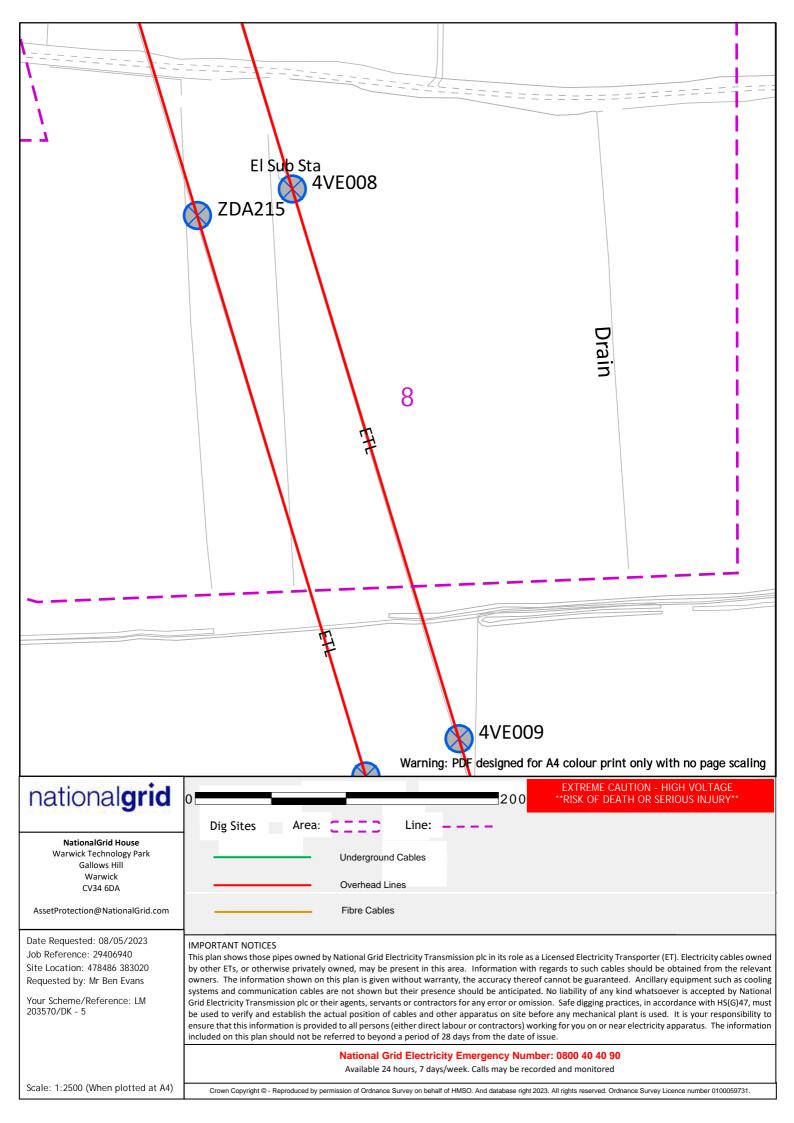






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nationalgrid	0 EXTREME CAUTION - HIGH VOLTAGE **RISK OF DEATH OR SERIOUS INJURY**
NationalGrid House Warwick Technology Park Gallows Hill Warwick	Dig Sites Area: CIID Line: Underground Cables
CV34 6DA AssetProtection@NationalGrid.com	Fibre Cables
Date Requested: 08/05/2023 Job Reference: 29406940 Site Location: 478486 383020 Requested by: Mr Ben Evans Your Scheme/Reference: LM 203570/DK - 5	IMPORTANT NOTICES This plan shows those pipes owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned by other ETs, or otherwise privately owned, may be present in this area. Information with regards to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of cables and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. National Grid Electricity Emergency Number: 0800 40 40 90
Scale: 1:2500 (When plotted at A4)	Available 24 hours, 7 days/week. Calls may be recorded and monitored





# **ENQUIRY SUMMARY**

Received Date 08/05/2023 9:34

Work Start Date 30/05/2023

Your Reference LM 203570/DK - 5

Location Centre Point: 478486 383020 X Extent: Y Extent: Postcode: DN229HF

# Map Options

Paper Size: A4 Orientation: PORTRAIT Scale: 1:2500 Real World Extents: 1947m x 766m

**Enquirer Details** 

Organisation Name: Atkins - Utility Solutions Contact Name: Ben Evans Email Address: searches.utilitysolutions@atkinsglobal.com Telephone: 01454662086 Address: The Hub, 500 Park Avenue, Aztec West, , Bristol, BS32 4RZ

Enquiry Type Initial Enquiry

Activity Type Utility Works Work Types Single excavations site (deeper than 1.5m)

### Notes/Works Description (if supplied)

### Site Contact Name (if supplied)

Site Contact Number (if supplied)



Our Ref: 29406941 LM 203570/DK - 6

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West

Bristol BS32 4RZ



National Grid House Warwick Technology Park Gallows Hill, Warwick CV34 6DA

Electricity Emergency Number: 0800 40 40 90\* \*Available 24 hours, 7 days/week. Calls may be recorded and monitored. www.nationalgrid.com

Asset Protection Gas Transmission National Grid Warwick Email: assetprotection@nationalgrid.com

#### National Grid Electricity – High Risk Response Letter

Dear Sir/ Madam,

An assessment has been carried out with respect to National Grid Electricity Transmission plc's apparatus and the proposed work location. Based on the location entered into the system for assessment the area has been found to be within the High Risk zone from National Grid Electricity Transmission plc's apparatus and **Must Not Proceed** without further assessment by Asset Protection.

Could you please send a works description (including how deep you are excavating) and any plans including any commencement dates to the following email address assetprotection@nationalgrid.com including the LSBUD enquiry reference number.

Failure to provide this information will result in a delay to your works being assessed.

Please note this response and any attached map(s) are valid for 28 days from date of this letter. A new enquiry will need to be submitted into LSBUD if the requested information above is not supplied within 28 days.

Yours sincerely,

**Asset Protection** 



# Your Responsibilities and Obligations

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

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

This assessment solely relates to National Grid Electricity Transmission plc (NGET)

This assessment does **NOT** include:

• National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact Asset Protection.

- Recently installed apparatus
- National Grid Gas plc.

• Apparatus owned by other organisations, e.g. Cadent, other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities.

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid Electricity Transmission plc easements or wayleaves nor any planning or building regulations applications.

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

If you require further assistance please contact the Asset Protection team via e-mail (assetprotection@nationalgrid.com) or via the contact details at the top of this response.



### Assessment

#### Affected Apparatus

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

• Electricity Transmission Overhead Line apparatus.

#### Requirements

#### **Over Head Lines**

BEFORE carrying out any work you must:

(N.B. Works only to be undertaken when contact has been made and response received from Asset Protection) - Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.

- Contact the landowner and ensure any proposed works in private land do not infringe National Grid Electricity Transmission plc's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.

- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid Electricity Transmission plc's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at www.hse.gov.uk

- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

DURING any work you must:

- Comply with all guidance for working within the vicinity of overhead lines as detailed within the guidance documents listed below.

- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.

- Ensure that access to National Grid Electricity Transmission plc's apparatus is maintained at all times.

- Prevent the placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over National Grid Electricity Transmission plc's apparatus unless specifically agreed with National Grid Electricity Transmission plc's apparatus in advance.

- Exercise extreme caution if slab (mass) concrete is encountered during excavation works as this maybe protecting or supporting National Grid Electricity Transmission plc's apparatus.

#### **Underground Cables**

BEFORE carrying out any work you must:

(N.B. Works only to be undertaken when contact has been made and response received from Asset Protection)

- Refer to the attached cable profile drawings which provide details about the location of National Grid's high voltage underground cables.

- Carefully read these requirements including the attached guidance documents and maps showing the location of apparatus.

- Contact the landowner and ensure any proposed works in private land do not infringe infringe National Grid Electricity Transmission plc's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.

- Ensure that all persons, including direct labour and contractors, working for you on or near infringe National Grid Electricity Transmission plc's follow the requirements of the HSE Guidance Notes HS(G)47 "Avoiding Danger From Underground Services". This guidance can be downloaded free of charge at www.hse.gov.uk

- In line with the above guidance, verify and establish the actual position of mains, pipes, cables,





services and other apparatus on site before any activities are undertaken.

DURING any work you must:

- Comply with all guidance for working within the vicinity of Electricity Underground Cables as detailed within the guidance documents listed below.

- Comply with all guidance relating to general activities and any specific guidance for each asset type as specified in the Guidance Section below.

- Ensure that access to National Grid Electricity Transmission plc's apparatus is maintained at all times.

- Prevent the placing of heavy construction plant, equipment, materials or the passage of heavy

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### **GUIDANCE**

#### National Grid Electricity Transmission Network data

• The Network map for National Grid Electricity Transmission assets can be downloaded at the following link in GIS format.

https://www.nationalgrid.com/uk/electricity-transmission/network-and-infrastructure/network-route-maps

#### **Buried Cables**

- National Grid's underground cables are protected by a Deed of grant; Easement; Wayleave Agreement or the provisions of the New Roads and Street Works Act. Which provide full right of access to retain, maintain, repair and inspect our asset. Hence we require that no permanent structures are to be built over our cables or within the easement strip.
- Ground levels above our cables must not be altered in any way. Any alterations to the depth of our cables will subsequently alter the rating of the circuit and can compromise the reliability, efficiency and safety of our electricity network.
- The supplied detailed route records should not be taken as positive indication of the cable location. This can only be determined by digging trial holes. Where trial holes are dug the concrete and / or polymeric cable protection tiles must not be disturbed.
- The normal recommendation is to keep 2 metres clear either side of the 1 metre wide trench containing the AC cable.
- National Grid should be made aware of the works starting and may put in place a representative to monitor the works. The works should be carried out in accordance with the recommendations in document HS (G) 47 available from the HSE web site.
- The relocation of existing underground cables is not normally feasible on grounds of cost, operation and maintenance and environmental impact and we believe that successful development can take place in their vicinity.
- The information supplied is given in good faith and only as a guide to the location of our underground cables. The accuracy of this information cannot be guaranteed. The physical presence of such cables may also be evident from physical protection measures such as ducts or concrete protection tiles. The person(s) responsible for planning, supervising and carrying out work in proximity to our cable(s) shall be liable to us, as cable(s) owner, as well as to any third party who may be affected in any way by any loss or damage resulting from their failure to locate and avoid any damage to such a cable(s).
- The relevant guidance in relation to working safely near to existing underground cables is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance HS(G)47 "Avoiding Danger From Underground Services" and all relevant site staff should make sure that they are both aware of and understand this guidance.
- Our cables are normally buried to a depth of 0.9 metres to the protective covers but this depth can vary depending on location (bridges may have cables 100mm below surface level)..The specific cable route record drawings show further details along the route of the particular cable. The cable route drawings are attached to this letter for your information.
- Cables installed in cable tunnels, whilst less likely to be affected by surface or shallow works may be affected by activities such as piling.
- National Grid assets can be adversely affected by vibration and can provide guidance on the acceptable levels of vibration due to piling and other construction related operations in the vicinity of national grid assets

Ground cover above our cables should not be reduced or increased without consultation with National Grid.
National Grid is a trading name for:
National Grid Electricity Transmission plc
Registered Office: 1-3 Strand, London WC2N 5EH
Registered in England and Wales, No 2366977

 If a landscaping scheme is proposed as part of the works, we request that no trees and shrubs are planted either directly above or within 3 metres of the existing underground cable, as ultimately the roots may grow to cause damage to the cable.

before

### **Cables Tunnels**

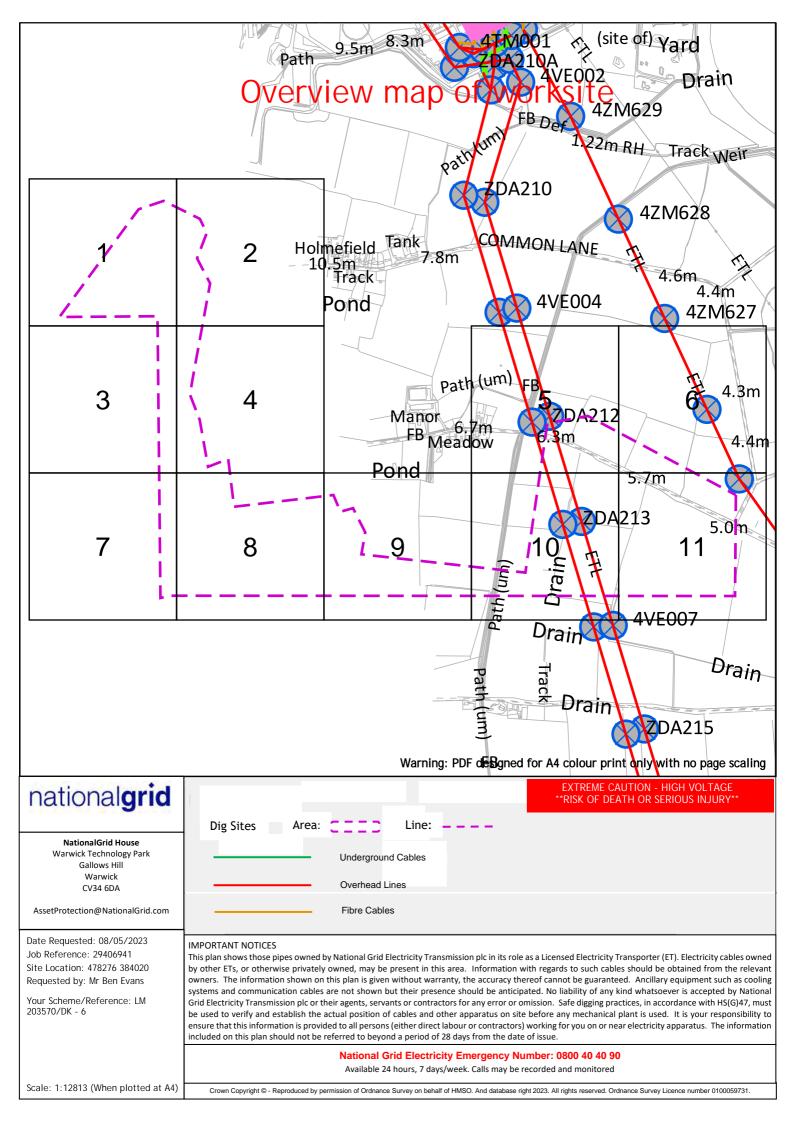
- National Grid's underground cable tunnels are protected by the provisions of a Wayleave/Easement or the New Roads and Street Works Act. This provides full right of access to retain, maintain, repair and inspect our asset.
- Further information and guidance regarding National Grid Cable Tunnels is available on our website at https://www.nationalgrid.com/uk/electricity-transmission/document/121061/download
- National Grid requires that the clearances indicated in the guidance document linked above are maintained at all times. Should it be necessary to enter the exclusion zone discussion/ agreement with National Grid is required to ensure the integrity of their tunnel asset and the high voltage cables is not compromised.
- Ground levels above our cable tunnels must not be altered in any way without prior agreement with National Grid; any alterations to the depth of our tunnels can compromise its integrity which could have an adverse impact on the reliability, efficiency and safety of our electricity network.
- Any works which would create high levels of vibration such as piling would need to be assessed by National Grid to ensure it has limited impact on our cable tunnels. National Grid can advise on acceptable vibration limits.

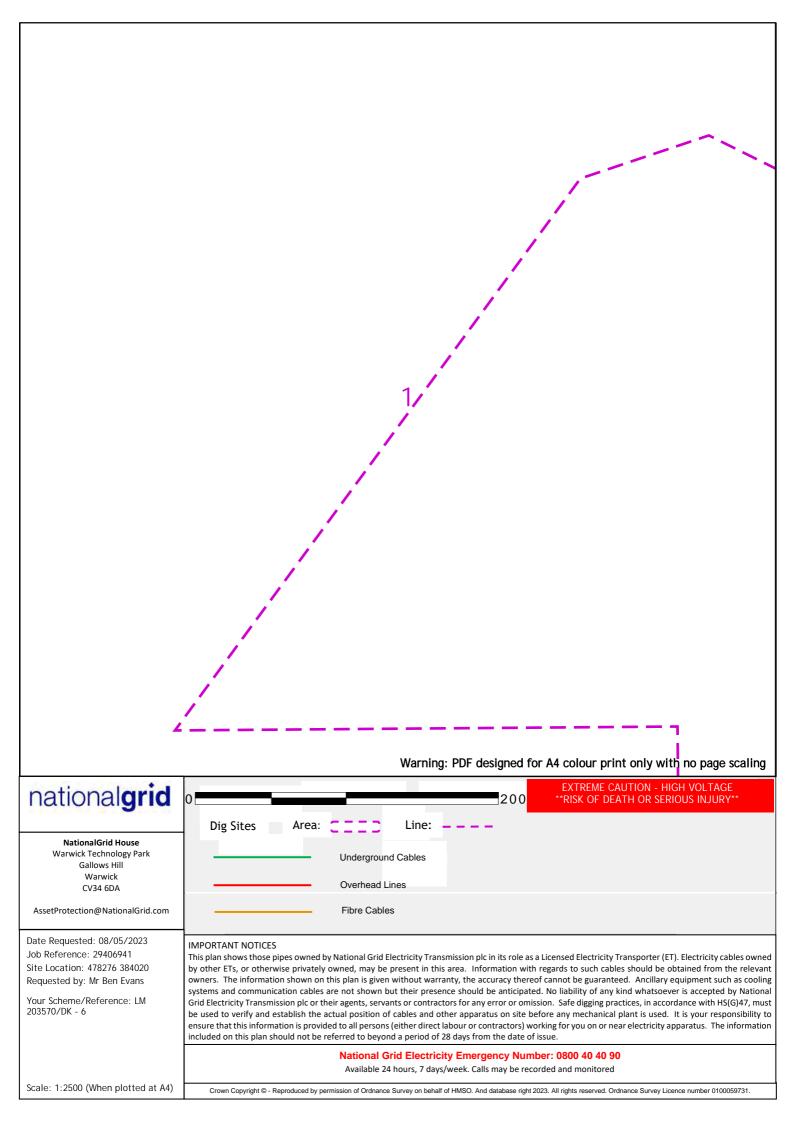
#### **Overhead Lines**

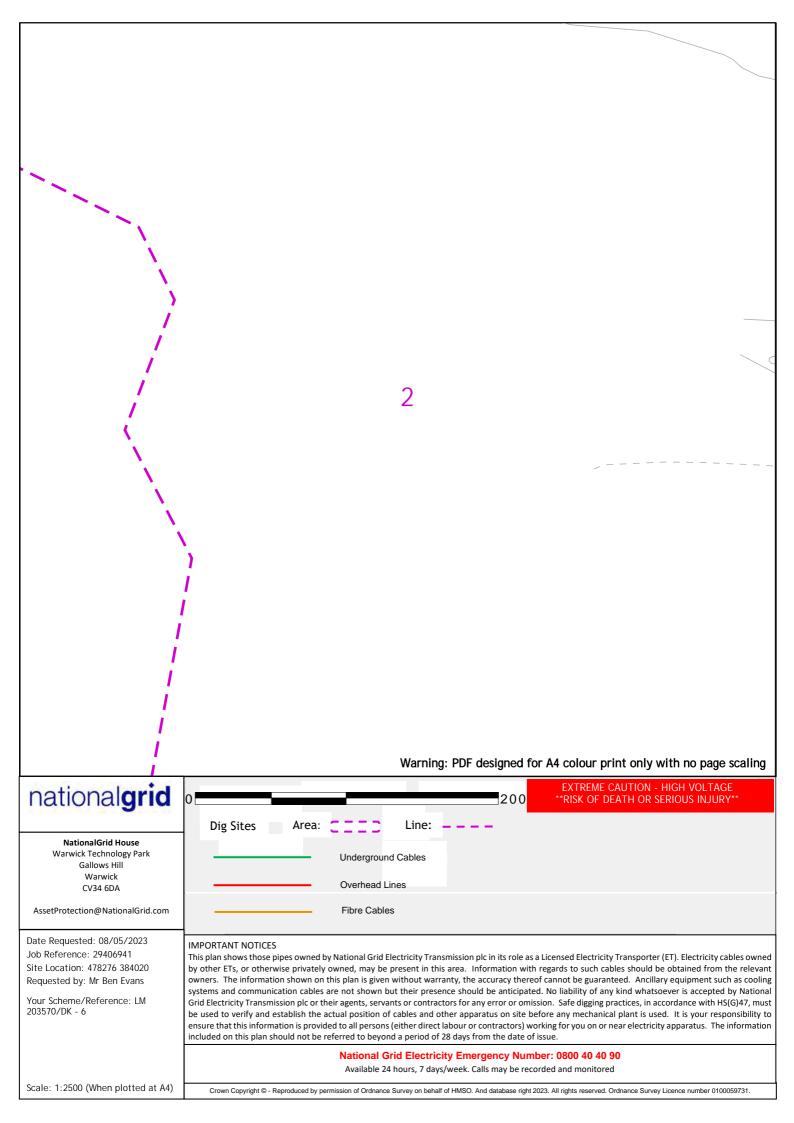
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- The submitted proposed design does not change after the date of this letter. Any design change that moves the proposal closer to National Grid Overhead Line Assets shall be submitted for assessment.
- Statutory electrical safety clearances shall be maintained at all times. National Grid recommends that no permanent structures are built directly beneath our overhead lines. These distances are set out in EN 43 8 Technical Specification for "Overhead Line Clearances Issue 5 (2019). To purchase & download EN 43 8 Technical Specification for "Overhead Line Clearances Issue 5 (2019) go to https://www.ena-eng.org/ENA-Docs/
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- To view the National Grid Third Party Guidance for working near National Grid Electricity Transmission equipment. https://www.nationalgridet.com/sites/et/files/documents/Working%20near%20electricity%20equipment.pd f



- The relevant guidance in relation to working safely near to existing overhead lines is contained within the Health and Safety Executive's (www.hse.gov.uk) Guidance Note GS 6 "Avoidance of Danger from Overhead Electric Lines."
- If a landscaping scheme is proposed as part of the proposal, only slow and low growing species of trees and shrubs shall be planted beneath and adjacent to the existing overhead line to reduce the risk of growth to a height which compromises statutory safety clearances.
- Drilling or excavation works shall not be undertaken if they have the potential to disturb or adversely affect the foundations or "pillars of support" of our towers. These foundations extend beyond the base of the tower. Pillar of Support drawings shall be obtained using the contact details above.
- Due to the scale, bulk and cost of the transmission equipment required to operate at 275kV or 400kV we only support proposals for the relocation of existing high voltage overhead lines where such proposals directly facilitate a major development or infrastructure project of national importance which has been identified as such by government.
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- Further information regarding our undergrounding policy and development near transmission overhead lines is available on our website at: https://www.nationalgridet.com/network-and-assets/planning-and-development



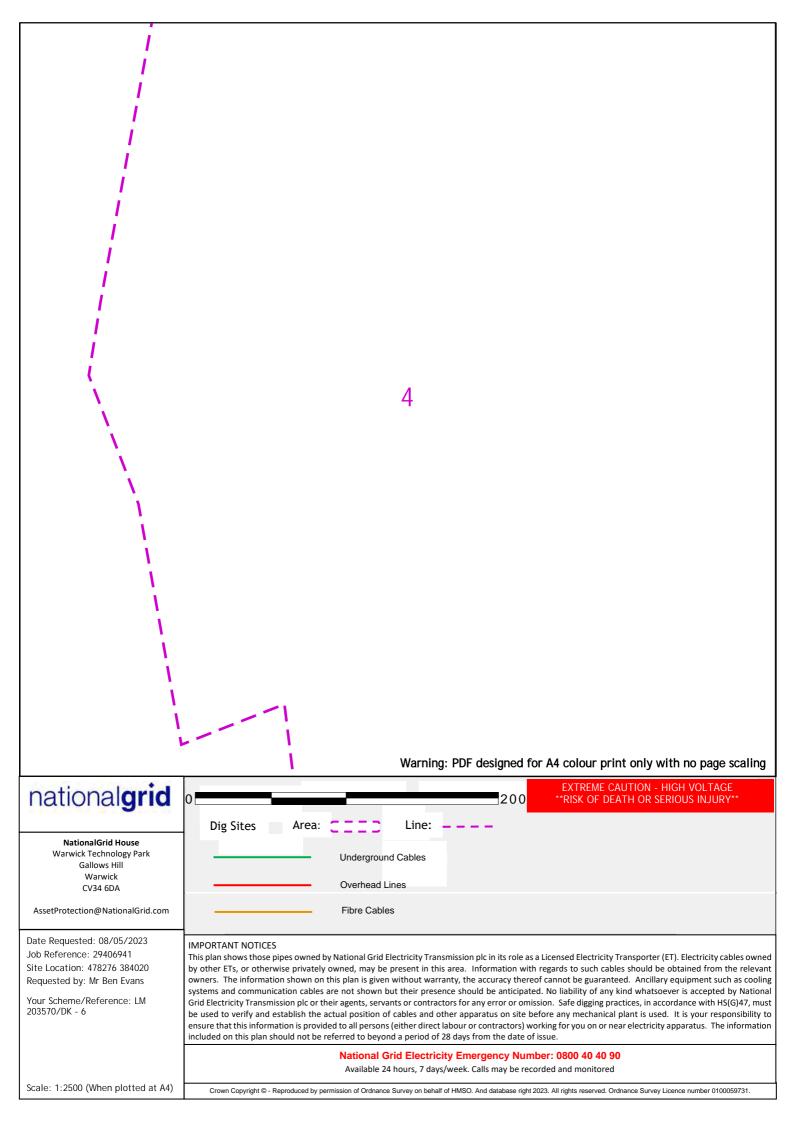


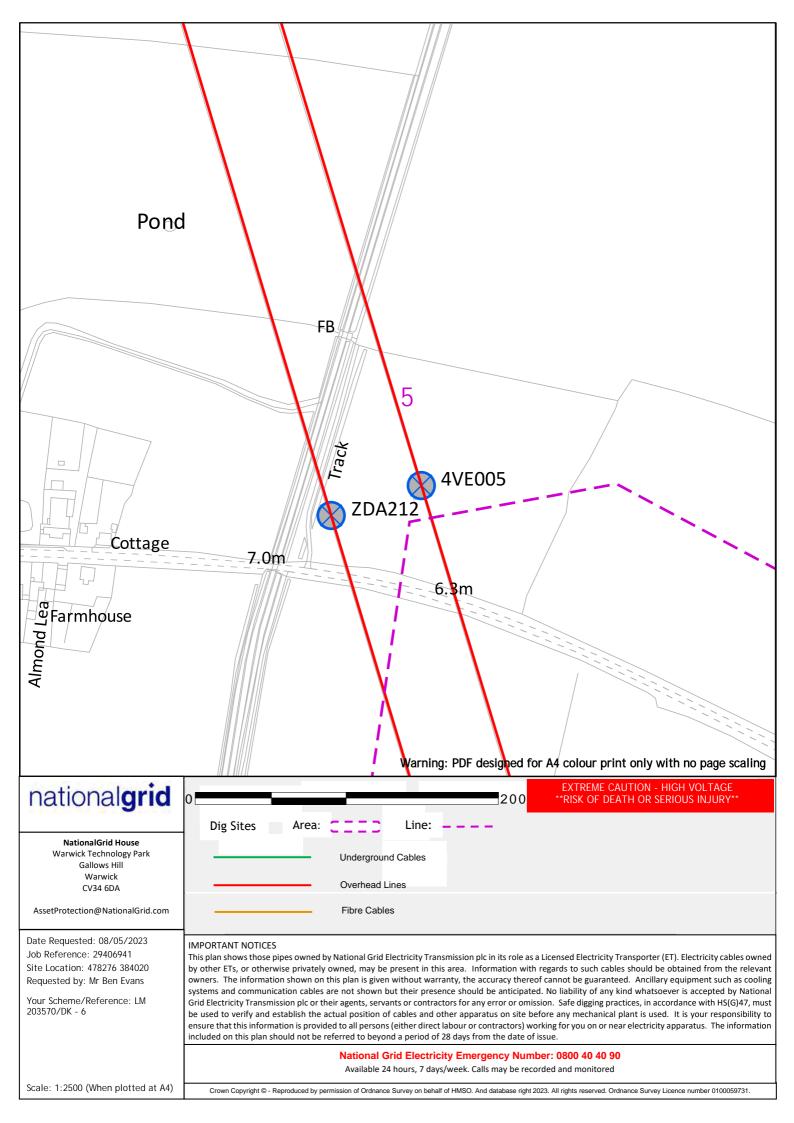


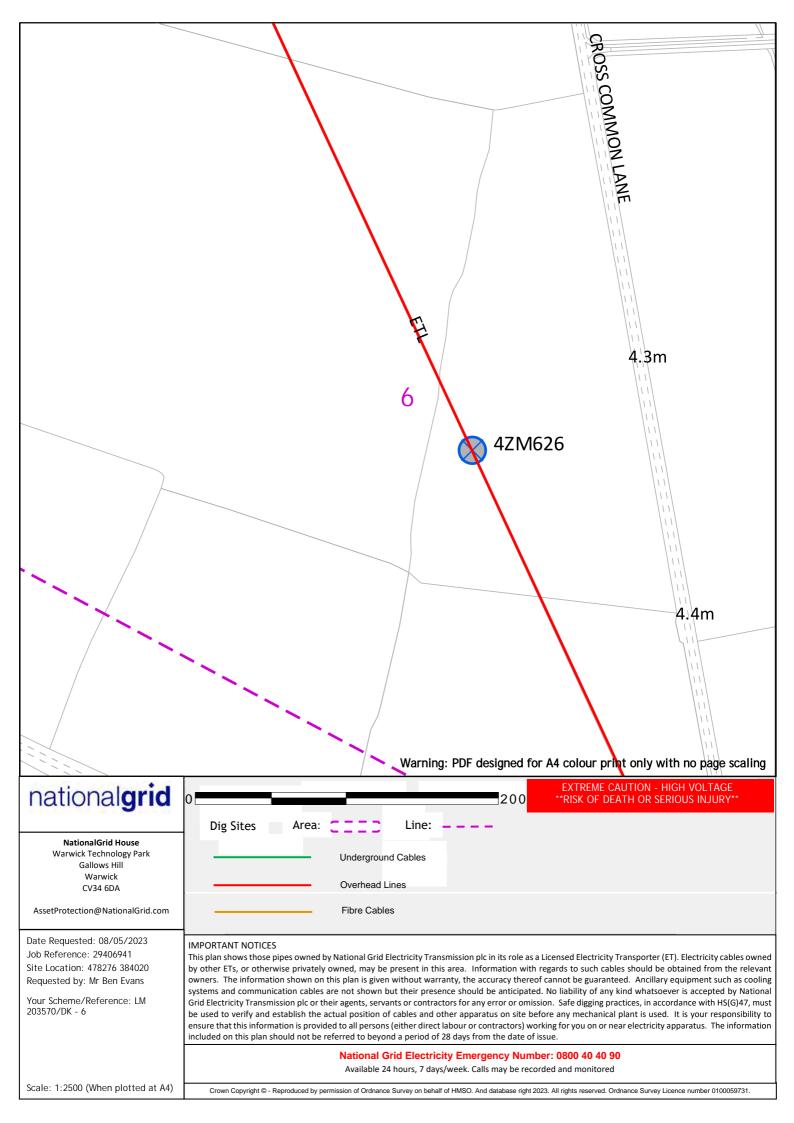
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nationalgrid	0 EXTREME CAUTION - HIGH VOLTAGE **RISK OF DEATH OR SERIOUS INJURY**
	Dig Sites Area: C C C Line:
<b>NationalGrid House</b> Warwick Technology Park Gallows Hill Warwick CV34 6DA	Underground Cables Overhead Lines
AssetProtection@NationalGrid.com	Fibre Cables
Date Requested: 08/05/2023 Job Reference: 29406941 Site Location: 478276 384020 Requested by: Mr Ben Evans Your Scheme/Reference: LM 203570/DK - 6	IMPORTANT NOTICES This plan shows those pipes owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned by other ETs, or otherwise privately owned, may be present in this area. Information with regards to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of cables and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.
	National Grid Electricity Emergency Number: 0800 40 40 90 Available 24 hours, 7 days/week. Calls may be recorded and monitored
Scale: 1:2500 (When plotted at A4)	Crown Copyright @ - Reproduced by permission of Ordnance Survey on behalf of HMSO. And database right 2023. All rights reserved. Ordnance Survey Licence number 0100059731.

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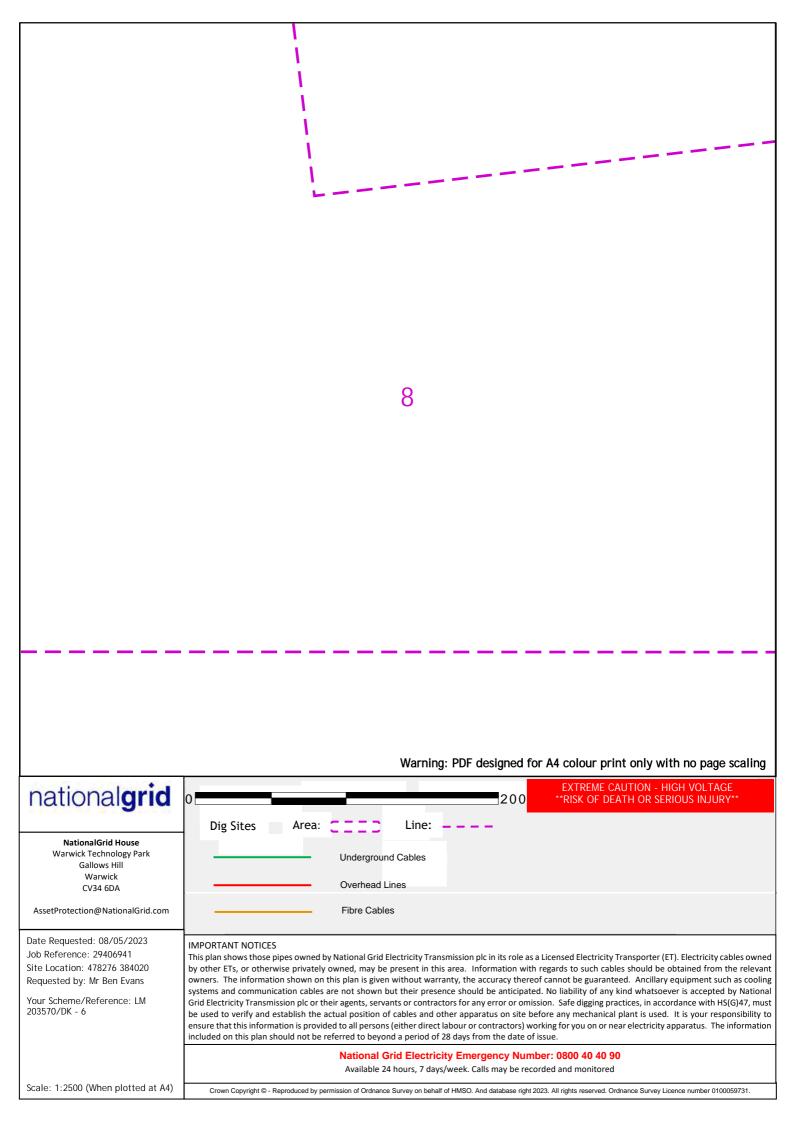
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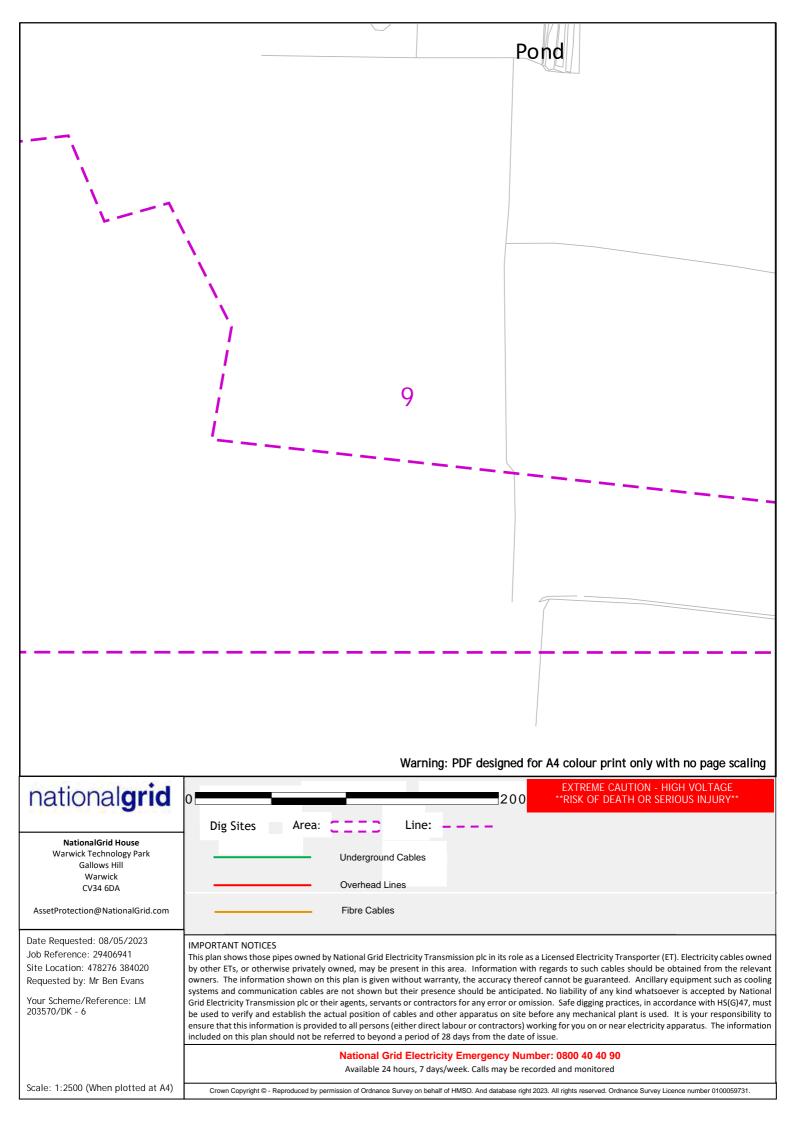


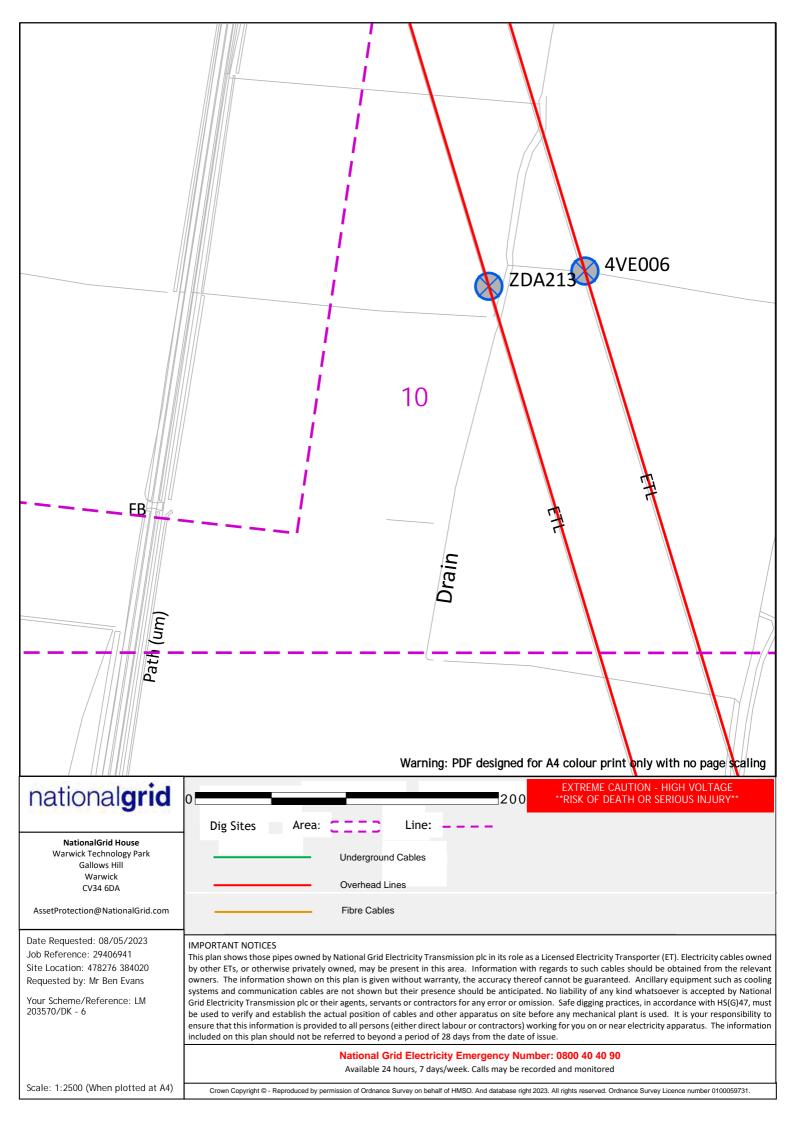


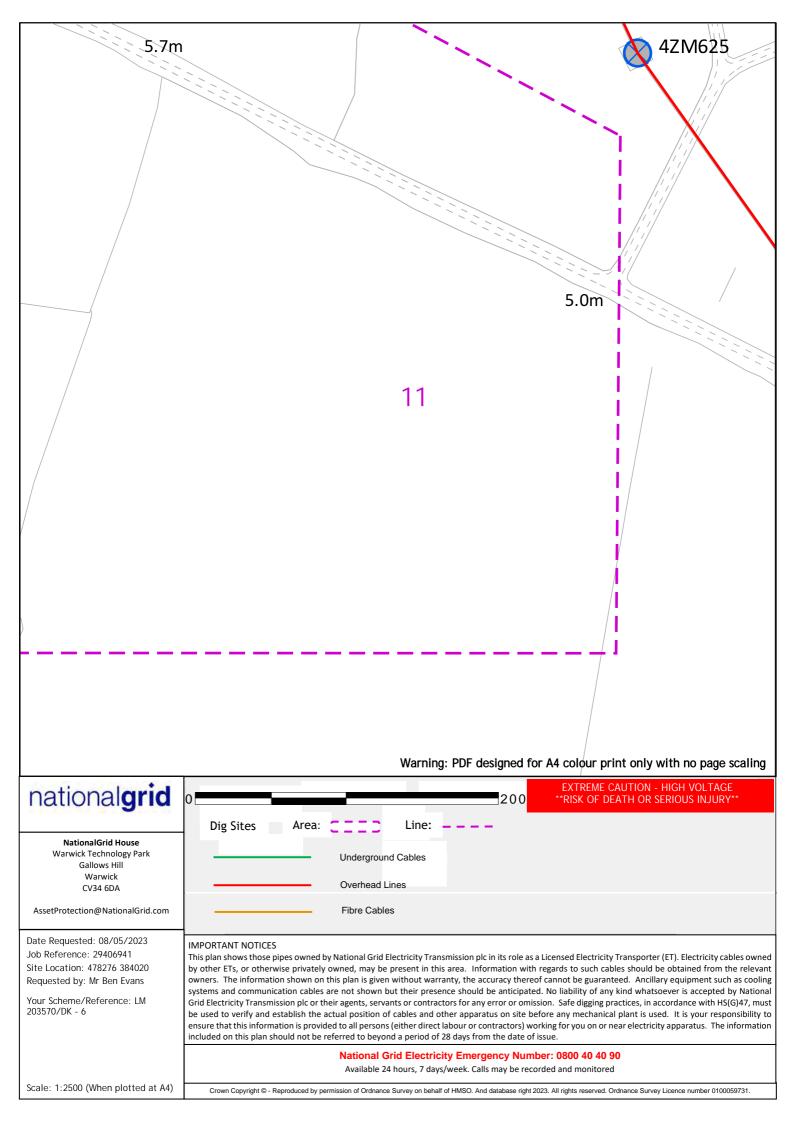


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national <b>grid</b>	0 EXTREME CAUTION - HIGH VOLTAGE **RISK OF DEATH OR SERIOUS INJURY**
NationalGrid House Warwick Technology Park Gallows Hill Warwick CV34 6DA AssetProtection@NationalGrid.com	Dig Sites Area: C C C Line: Underground Cables Overhead Lines Fibre Cables
Date Requested: 08/05/2023 Job Reference: 29406941 Site Location: 478276 384020 Requested by: Mr Ben Evans Your Scheme/Reference: LM 203570/DK - 6	IMPORTANT NOTICES This plan shows those pipes owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned by other ETs, or otherwise privately owned, may be present in this area. Information with regards to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of cables and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.
	National Grid Electricity Emergency Number: 0800 40 40 90 Available 24 hours, 7 days/week. Calls may be recorded and monitored
Scale: 1:2500 (When plotted at A4)	Crown Copyright © - Reproduced by permission of Ordnance Survey on behalf of HMSO. And database right 2023. All rights reserved. Ordnance Survey Licence number 0100059731.









# **ENQUIRY SUMMARY**

Received Date 08/05/2023 9:34

Work Start Date 30/05/2023

Your Reference LM 203570/DK - 6

Location Centre Point: 478276 384020 X Extent: Y Extent: Postcode: DN229HQ

## Map Options

Paper Size: A4 Orientation: PORTRAIT Scale: 1:2500 Real World Extents: 2291m x 1346m

**Enquirer Details** 

Organisation Name: Atkins - Utility Solutions Contact Name: Ben Evans Email Address: searches.utilitysolutions@atkinsglobal.com Telephone: 01454662086 Address: The Hub, 500 Park Avenue, Aztec West, , Bristol, BS32 4RZ

Enquiry Type Initial Enquiry

Activity Type Utility Works Work Types Single excavations site (deeper than 1.5m)

### Notes/Works Description (if supplied)

### Site Contact Name (if supplied)

Site Contact Number (if supplied)



Our Ref: 29406951 LM 203570/DK - 12

Monday, 08 May 2023

Ben Evans The Hub, 500 Park Avenue, Aztec West

Bristol BS32 4RZ



National Grid House Warwick Technology Park Gallows Hill, Warwick CV34 6DA

Electricity Emergency Number: 0800 40 40 90\* \*Available 24 hours, 7 days/week. Calls may be recorded and monitored. www.nationalgrid.com

Asset Protection Gas Transmission National Grid Warwick Email: assetprotection@nationalgrid.com

#### National Grid Electricity – No Assets Affected

Dear Sir/ Madam,

An assessment has been carried out with respect to NGET apparatus and the proposed work location. Based on the search area entered in the LSBUD system for assessment the search area has been found to not affect any NGET apparatus.

Please note this response and any attached map(s) are valid for 28 days

Yours sincerely

**Asset Protection Team** 



## Your Responsibilities and Obligations

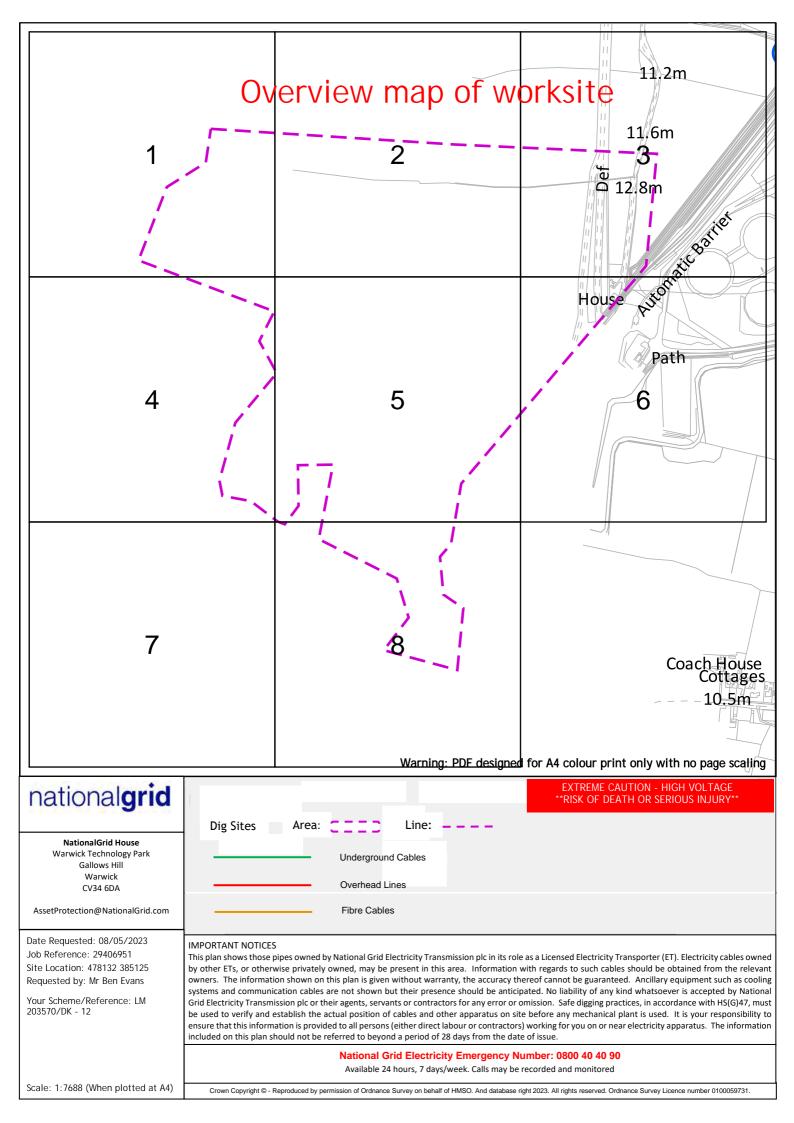
It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid Electricity Transmission plc's apparatus, as legally required including under the Construction (Design and Management) Regulations 2015.

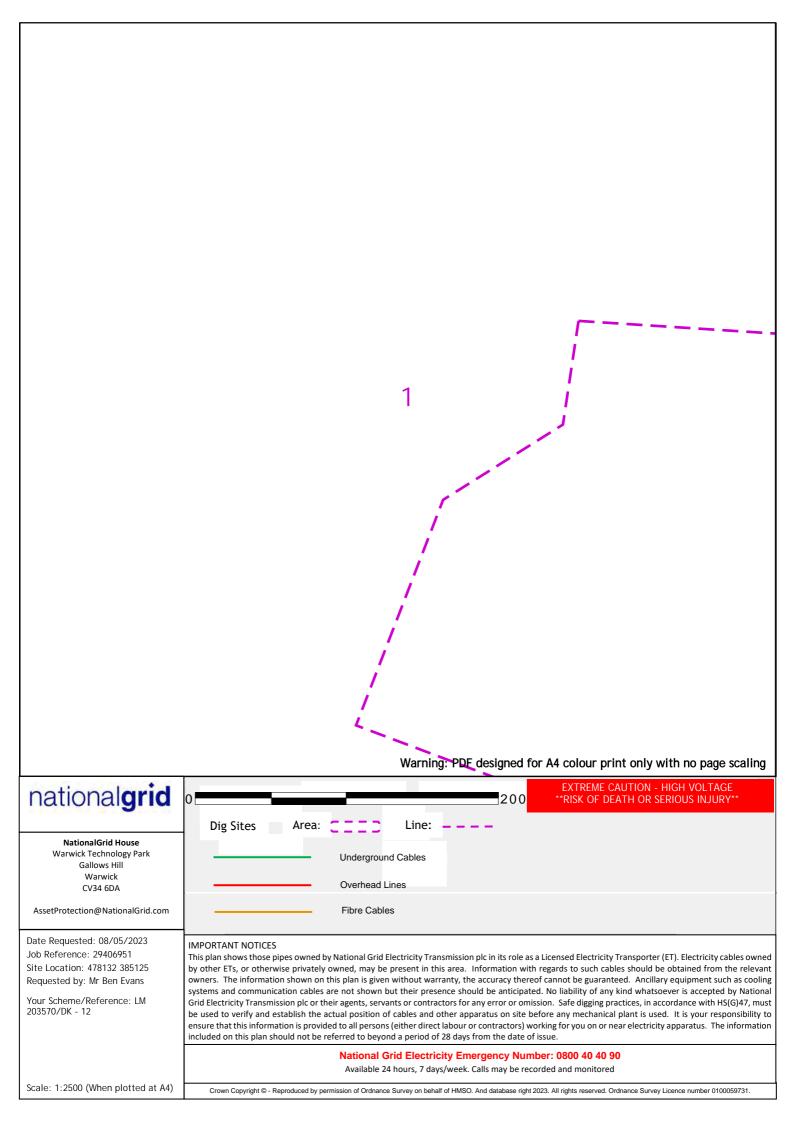
The assessment solely relates to the physical apparatus of National Grid Electricity Transmission plc (NGET) It does **NOT** cover:

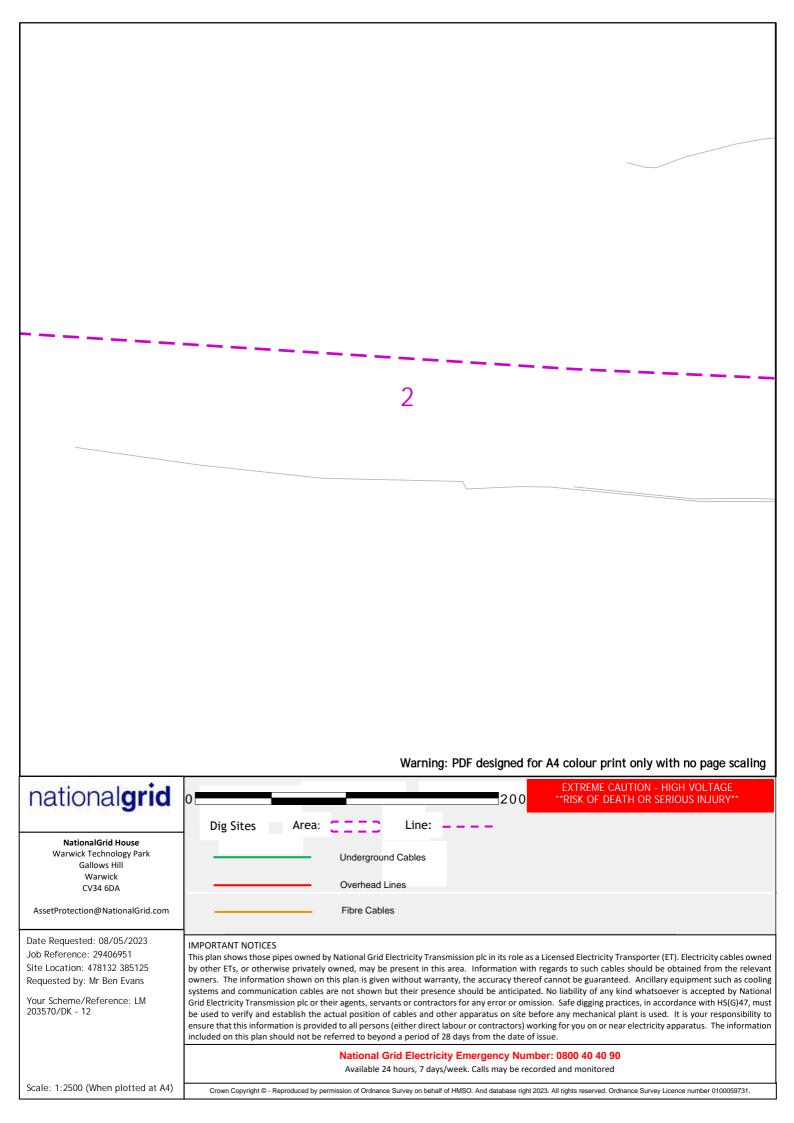
- Apparatus owned by other people or organisations, e.g., Cadent, other gas distribution operators, local electricity companies, other utilities, landowners etc
- Apparatus owned by National Grid Gas plc.
- NGET's legal rights and interests (such as those contained in easements or wayleaves) in or concerning the land, which restrict activity in proximity to NGET's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and/or from HM Land Registry and/or you should seek legal advice. If in doubt, contact Asset Protection.

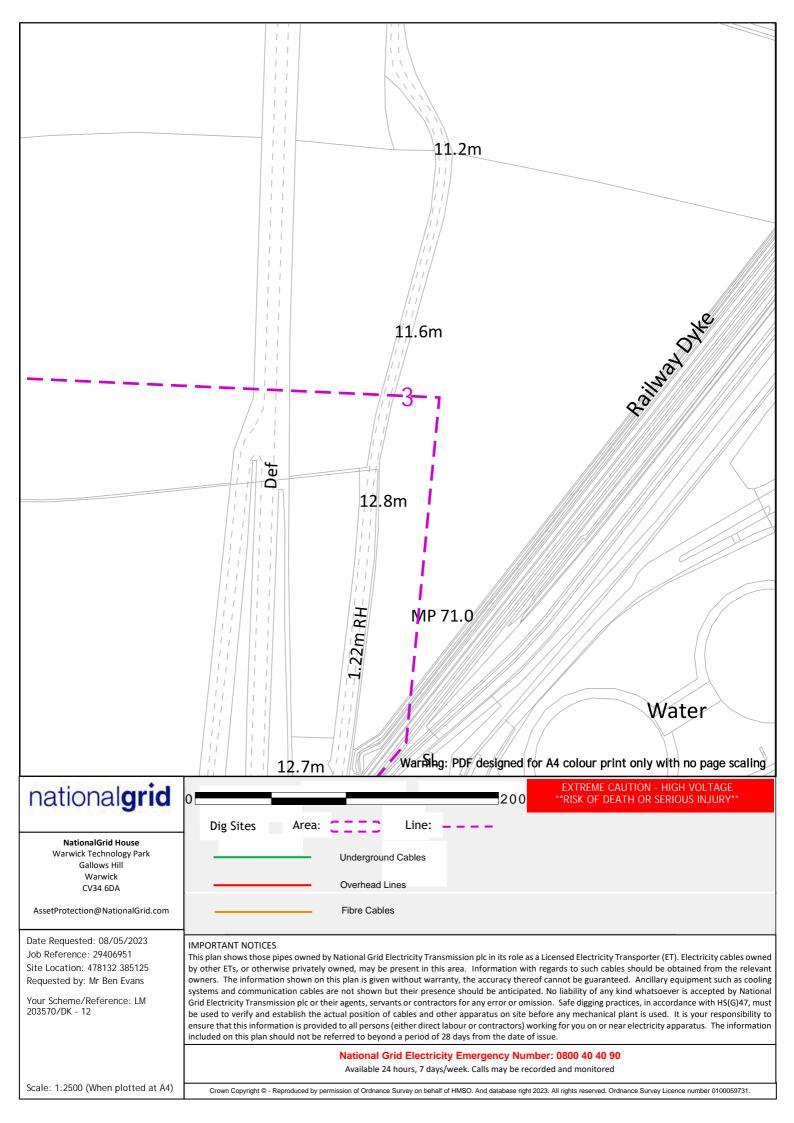
It is **YOUR** responsibility to consider whether any of the items or factors listed above may be present or relevant and if they could be affected by your proposed activities.

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

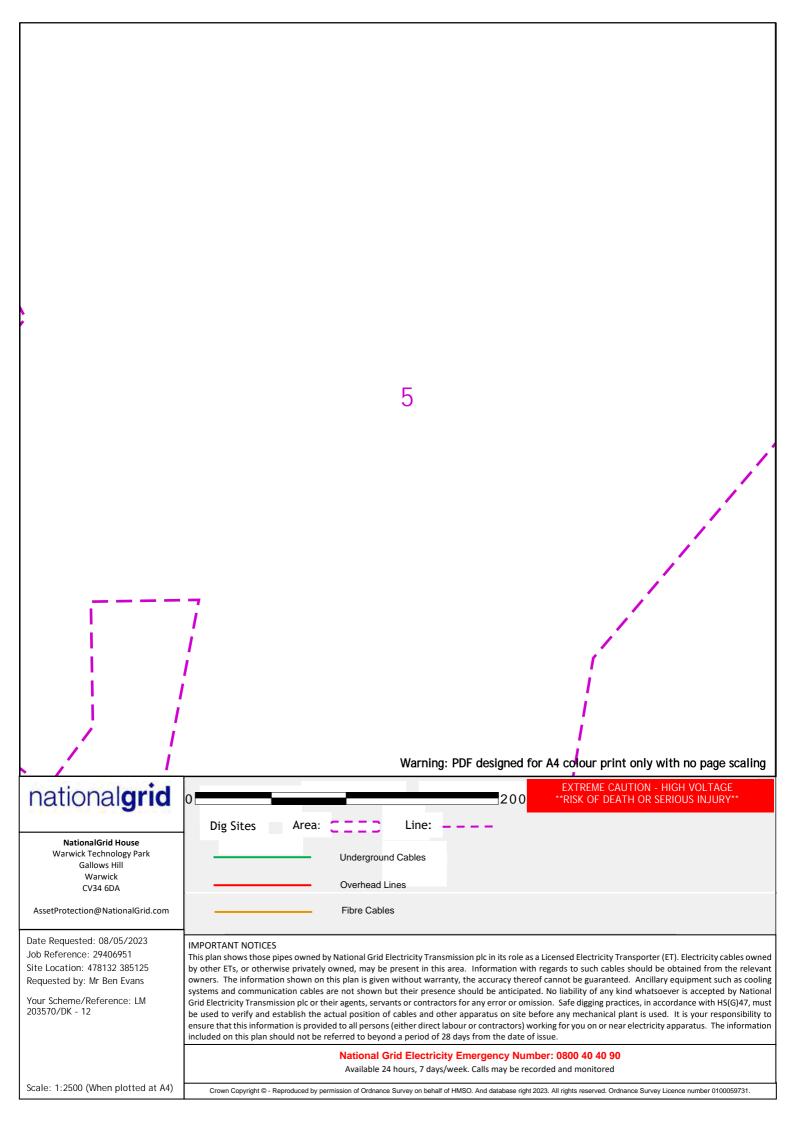


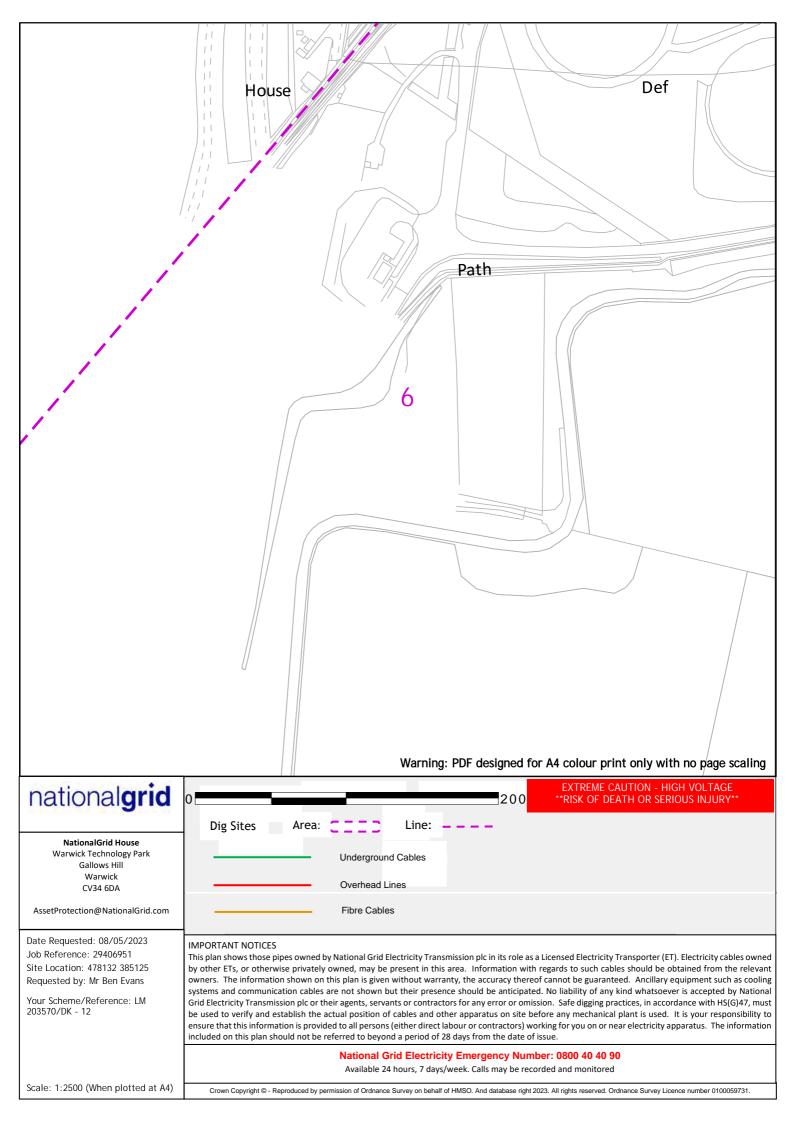






4 Warning: PDF designed for A4 colour print only with no page scaling EXTREME CAUTION - HIGH VOLTAGE \*RISK OF DEATH OR SERIOUS INJURY\* nationalgrid 0 200 Dig Sites Area: Line: NationalGrid House Warwick Technology Park Underground Cables Gallows Hill Warwick **Overhead Lines** CV34 6DA AssetProtection@NationalGrid.com Fibre Cables Date Requested: 08/05/2023 IMPORTANT NOTICES Job Reference: 29406951 This plan shows those pipes owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned Site Location: 478132 385125 by other ETs, or otherwise privately owned, may be present in this area. Information with regards to such cables should be obtained from the relevant Requested by: Mr Ben Evans owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Your Scheme/Reference: LM Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must 203570/DK - 12 be used to verify and establish the actual position of cables and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. National Grid Electricity Emergency Number: 0800 40 40 90 Available 24 hours, 7 days/week. Calls may be recorded and monitored Scale: 1:2500 (When plotted at A4) Crown Copyright @ - Reproduced by permission of Ordnance Survey on behalf of HMSO. And database right 2023. All rights reserved. Ordnance Survey Licence number 0100059731.

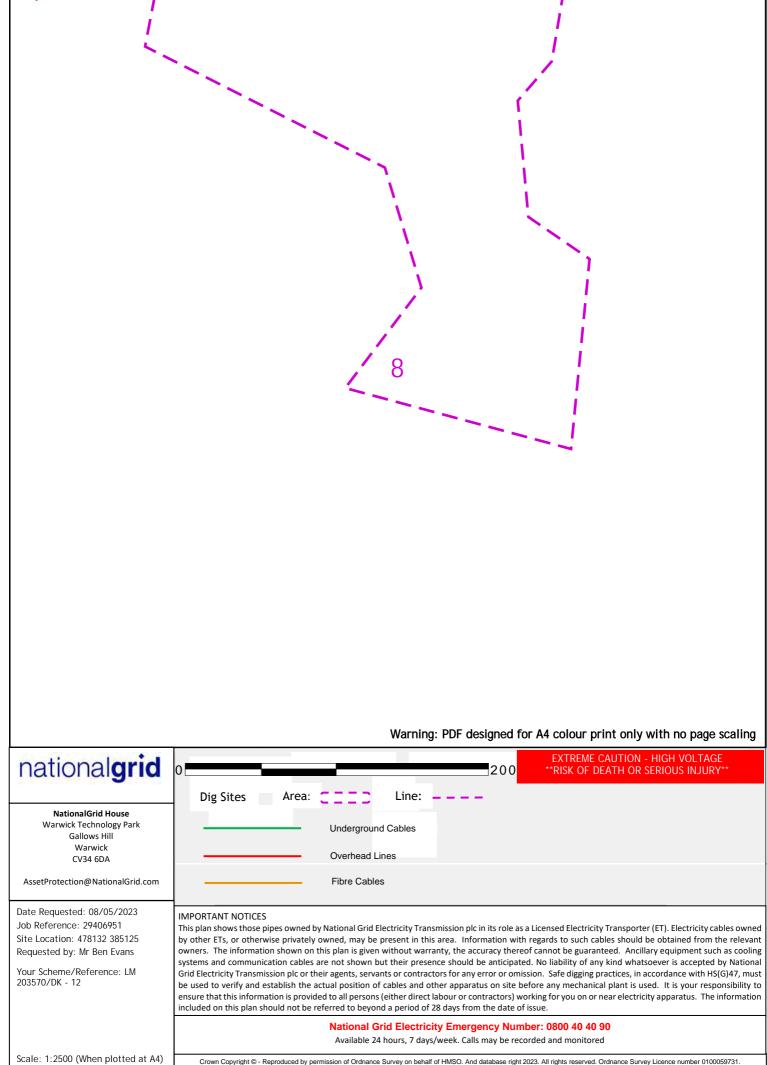




### Warning: PDF designed for A4 colour print only with no page scaling

	warning: PDF designed for A4 colour print only with no page scaling
national <b>grid</b>	0 EXTREME CAUTION - HIGH VOLTAGE **RISK OF DEATH OR SERIOUS INJURY**
	Dig Sites Area: C C C Line:
<b>NationalGrid House</b> Warwick Technology Park Gallows Hill Warwick CV34 6DA	Underground Cables Overhead Lines
AssetProtection@NationalGrid.com	Fibre Cables
Date Requested: 08/05/2023 Job Reference: 29406951 Site Location: 478132 385125 Requested by: Mr Ben Evans Your Scheme/Reference: LM 203570/DK - 12	IMPORTANT NOTICES This plan shows those pipes owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned by other ETs, or otherwise privately owned, may be present in this area. Information with regards to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of cables and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.
	National Grid Electricity Emergency Number: 0800 40 40 90 Available 24 hours, 7 days/week. Calls may be recorded and monitored
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7



# **ENQUIRY SUMMARY**

Received Date 08/05/2023 9:34

Work Start Date 30/05/2023

Your Reference LM 203570/DK - 12

Location Centre Point: 478132 385125 X Extent: Y Extent: Postcode: DN229BN

# Map Options

Paper Size: A4 Orientation: PORTRAIT Scale: 1:2500 Real World Extents: 1053m x 1100m

**Enquirer Details** 

Organisation Name: Atkins - Utility Solutions Contact Name: Ben Evans Email Address: searches.utilitysolutions@atkinsglobal.com Telephone: 01454662086 Address: The Hub, 500 Park Avenue, Aztec West, , Bristol, BS32 4RZ

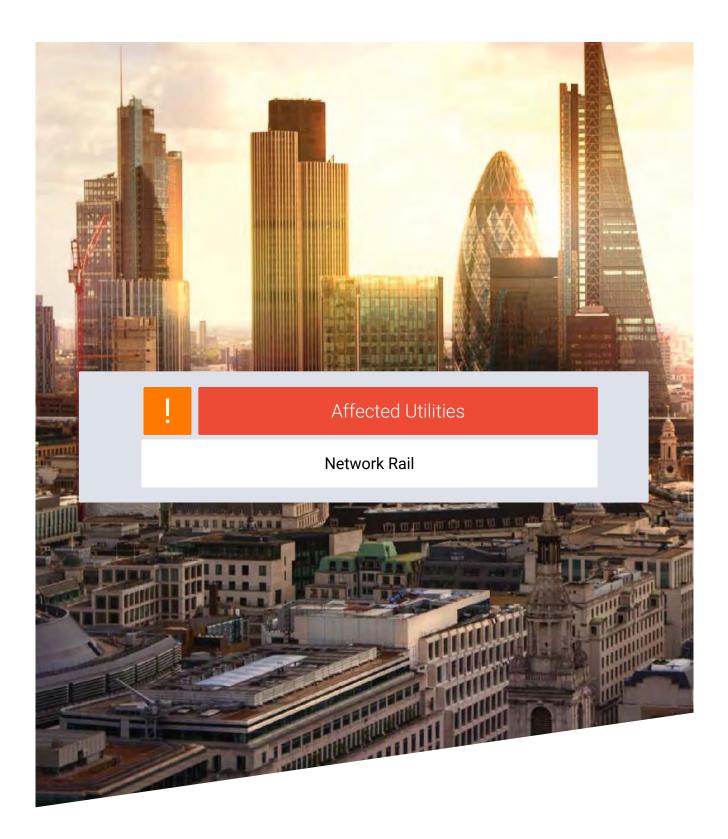
Enquiry Type Initial Enquiry

Activity Type Utility Works Work Types Single excavations site (deeper than 1.5m)

### Notes/Works Description (if supplied)

### Site Contact Name (if supplied)

Site Contact Number (if supplied)







Sir/Madam

Please find information available as per the checklist.



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- .

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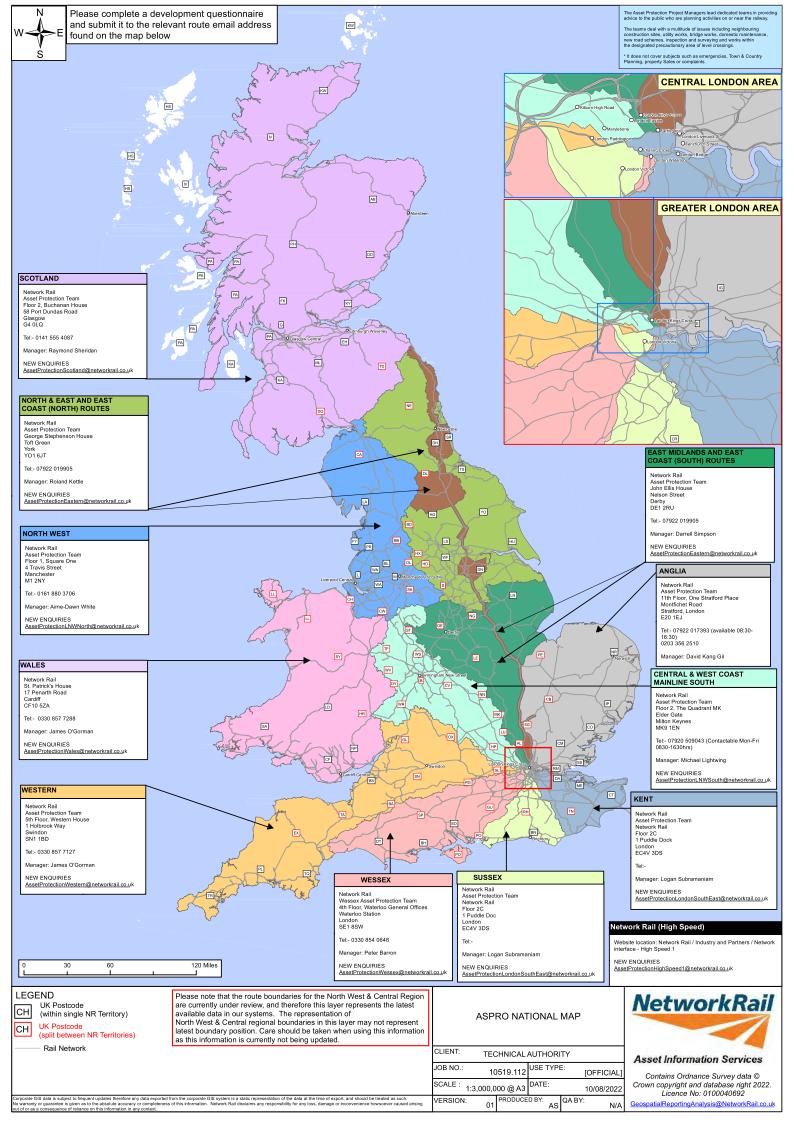
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# Buried Services Information Checklist



Your Ref	203570	Our Orc	ler Ref	168506
			Englosed	
			Enclosed	
Network Rail Record	Гуре	Category	Yes/No	Notes (e.g. Nil Return)
Asset Protection Natio	nal Map	Contact Ino	Y	
Hazard Directory	Hazard	Y		
Site Map		GIS Systems	Y	
	National			
	Records	Y		
eB - Corporate records	Group			
Network Rail - Drainage	GIS Systems	Y		
, in the second	National			
National Records Group	Records	Y		
'	Group			

**NIL RETURN:** After interrogating the information made available to us, no records containing buried services information have been returned for this worksite. However, reference must be made to the guidelines supplied with this buried services search, which contain important information on safe working practices.





Order ID: 168506

ELR	Start Mileage	End Mileage
TYB1	68.0356	69.1507
WBC	-0.0721	0.0626
MAC3	68.0375	71.0367



Hazard

Directory



#### **Terms and Conditions**

The National Hazard Directory (NHD) is issued by Network Rail to provide information on those hazards recorded as present on Network Rail's infrastructure. Its' purpose is to alert users to the typical hazards they may come across whilst working on Network Rail's Infrastructure. The National Hazard Directory is maintained by Network Rail to provide its employees and contractors with information on known hazards present on the infrastructure in order to assist in the identification of the associated risks working 'on or near the line'.

The records are updated regularly and therefore Network Rail believe that the contents are reasonably accurate at the time of issue, but some of the information can vary in age and accuracy so for that reason Network Rail will give no warranty as to the suitability of its use. It is recommended that all searches (in particular for buried services) should be conducted together with a site specific risk assessment/site visit, taking into account the requirements of the appropriate track safety rules, rule books/industry standards and so on. Network Rail will accept no liability in respect of the content or subsequent use of the National Hazard Directory or any of the information contained within.

Users of the Directory must note that when working on or near the line that the appropriate requirements of the Rule Book, especially the provisions of the track safety rules, must be applied as appropriate to the activity concerned.

OnTrac Ltd does not warrant the use of the Network Rail National Hazard Directory or any of the information contained within and no representations or warranties are made as to completeness or accuracy of the data. The data should be used for reference purposes only. Accordingly, OnTrac Ltd will accept no responsibility for loss of profit or for any indirect, incidental or consequential damages.

#### **National Hazard Directory**

#### **Customised Report**

Search Criteria: ELR(s) = TYB1; Mileage From = 68.0356; Mileage To = 69.1507; Hazard Code(s) = HB, HBA, HBC, HBCS, HBD, HBE, HBF, HBFR, HBFS, HBG, HBI, HBL, HBM, HBN, HBO, HBP, HBR, HBS, HBSW, HBT, HBU, HBW, HCT, HU, HXE Date: 04/05/2023

	1			2 F	lazards found.			
ELR	ELR Name	Mileage From	Mileage To	Hazard Code	Hazard Description	Local Name	Track ID	Free Text
TYB1	CLARBOROUGH JN - COTTAM CEGB (TORKSEY BRANCH)	69.0110	69.0110	HBW	Buried Water Main			High Pressure Water Pipeline. RT Document: RTP LP NO 401/401A. ACROSS TRACKS BR AGT 2646 RT PROP DEED REF
TYB1	CLARBOROUGH JN - COTTAM CEGB (TORKSEY BRANCH)	69.0110	69.0110	HBW	Buried Water Main			High Pressure Water Pipeline. RT Document: RTP LP NO 401/401A. ACROSS TRACKS 2/231/521 RT PROP FILE REF NER AGT 5147 RT PROP DEED REF

#### **National Hazard Directory**

#### **Customised Report**

Search Criteria: ELR(s) = WBC; Mileage From = -0.0721; Mileage To = 0.0626; Hazard Code(s) = HB, HBA, HBC, HBCS, HBD, HBE, HBF, HBFR, HBFS, HBG, HBI, HBL, HBM, HBN, HBO, HBP, HBR, HBS, HBSW, HBT, HBU, HBW, HCT, HU, HXE Date: 04/05/2023

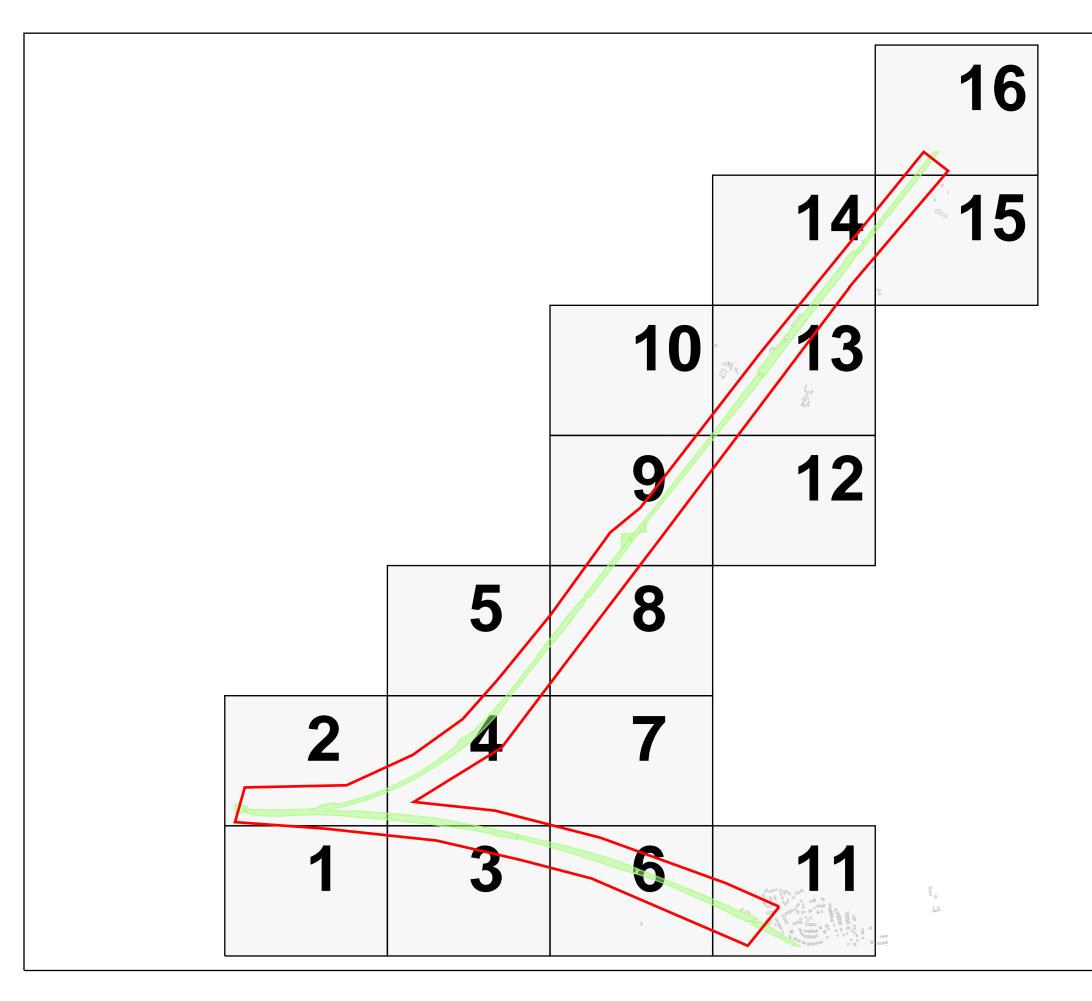
			1	Hazards found	d.		1	1
ELR	ELR Name	Mileage From	Mileage To	Hazard Code	Hazard Description	Local Name	Track ID	Free Text
WBC	WEST BURTON (CEGB SIDINGS)	0.0054	0.0054	НВ	Buried Service			High Pressure Pipleline

### **National Hazard Directory**

#### **Customised Report**

Search Criteria: ELR(s) = MAC3; Mileage From = 68.0375; Mileage To = 71.0367; Hazard Code(s) = HB, HBA, HBC, HBCS, HBD, HBE, HBF, HBFR, HBFS, HBG, HBI, HBL, HBM, HBN, HBO, HBP, HBR, HBS, HBSW, HBT, HBU, HBW, HCT, HU, HXE Date: 04/05/2023

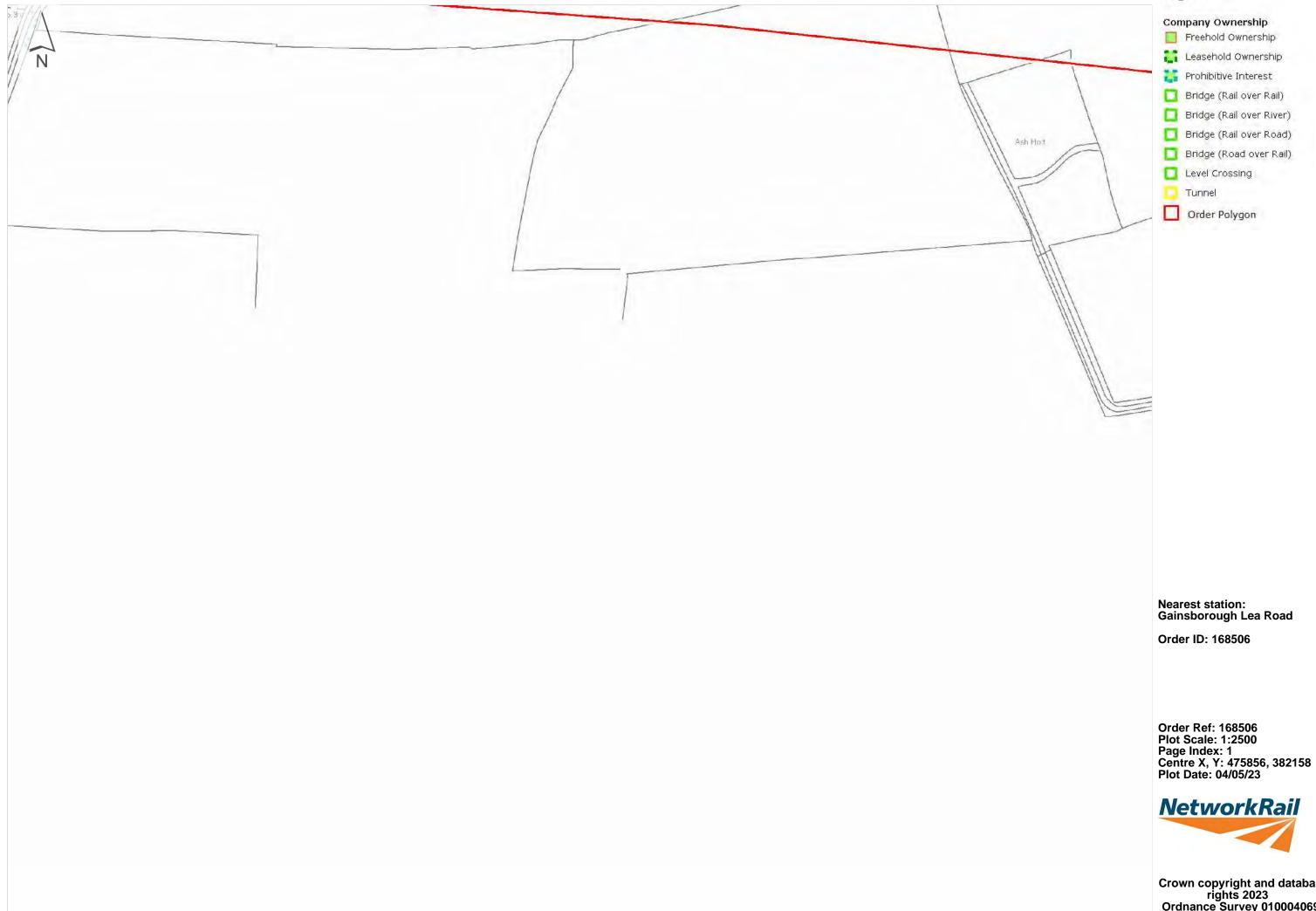
ELR	ELR Name	Mileage From	Mileage To	Hazard Code	Hazard Description	Local Name	Track ID	Free Text
MAC3	DEEPCAR (BSC) - CLEETHORPES	64.1021	94.0924	НВ	Buried Service			High Tension Cable. RT Document: RTP LP NO.358. 21172/0014 RT PROP MENTOR REF~ NORTH SIDE OF RAILWAY
MAC3	DEEPCAR (BSC) - CLEETHORPES	68.0704	68.0704	HBE	Buried Electrical Cables	Clarborough Relay Room (REB)		Electricity Cable.
MAC3	DEEPCAR (BSC) - CLEETHORPES	68.0704	68.0704	НВ	Buried Service	Clarborough Relay Room (REB)		High Tension Cable. Telecom
MAC3	DEEPCAR (BSC) - CLEETHORPES	69.1370	69.1392	HBW	Buried Water Main			High Pressure Water Pipeline. RT Document: RTP LP NO.397. 24296/0010 RT PROP MENTOR REF ANGLED ACROSS RAILWAY
MAC3	DEEPCAR (BSC) - CLEETHORPES	70.0660	70.0660	HBW	Buried Water Main			High Pressure Water Pipeline. RT Document: RTP LP NO.397. NO INFORMATION
MAC3	DEEPCAR (BSC) - CLEETHORPES	70.0668	70.0876	HBE	Buried Electrical Cables			Electricity Cable. RT Document: RTP LP NO.397. 24296/0002 RT PROP MENTOR REF NORTH SIDE OF RAILWAY
MAC3	DEEPCAR (BSC) - CLEETHORPES	70.1142	70.1322	HBE	Buried Electrical Cables			Electricity Cable. 132kv. RT Document: RTP LP NO.397. 24296/0002 RT PROP MENTOR REF NORTH SIDE OF RAILWAY
MAC3	DEEPCAR (BSC) - CLEETHORPES	70.1402	71.0118	НВО	Buried Oil Pipe	Government Pipelines & Storage Syst. Network Pipe	All/Multiple Tracks	Near West Burton Power Station. Follows alongside track at start mileage and crosses at end mileage. Record Centre Document Location: A264/3 121/7. For more information contact Records Centre 03 743347.
MAC3	DEEPCAR (BSC) - CLEETHORPES	70.1562	70.1578	HBW	Buried Water Main	STURTON LEVEL CROSSING		High Pressure Water Pipeline. Diameter=4". RT Document: RTP LP NO.397. 24296/0007 RT PROP MENTOR REF SOUTH SIDE OF RAILWAY AND ACROSS AT END MILE
MAC3	DEEPCAR (BSC) - CLEETHORPES	70.1584	70.1584	HBW	Buried Water Main			High Pressure Water Pipeline. RT Document: RTP LP NO.397. NO INFORMATION
MAC3	DEEPCAR (BSC) - CLEETHORPES	70.1584	70.1584	HBW	Buried Water Main			High Pressure Water Pipeline. RT Document: RTP LP NO.397. AGT DATED 17.3.1965 LINCOLN AND DISTRICT WATER BOARD
MAC3	DEEPCAR (BSC) - CLEETHORPES	70.1628	70.1628	НВ	Buried Service			High Pressure Pipleline





Order ID: 168506 Plot Date: 04/05/23





### Legend



## Legend

Con	npany Ownership
	Freehold Ownership
-	Leasehold Ownership
35	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	and the second second second

Order Polygon

### Nearest station: Gainsborough Lea Road

Order ID: 168506

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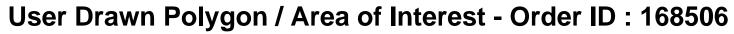
Order Ref: 168506 Plot Scale: 1:2500 Page Index: 2 Centre X, Y: 475856, 382793 Plot Date: 04/05/23





User Drawn Polygon / Area of Interest - Order ID : 168506

Con	npany Ownership
	Freehold Ownership
1	Leasehold Ownership
35	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	and shared and the state





Con	npany Ownership
	Freehold Ownership
1	Leasehold Ownership
8	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

# Nearest station: Gainsborough Lea Road

Order ID: 168506

Order Ref: 168506 Plot Scale: 1:2500 Page Index: 4 Centre X, Y: 476650, 382793 Plot Date: 04/05/23





# Legend

Com	pany Ownership
	Freehold Ownership
11	Leasehold Ownership
8	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

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Nearest station: Gainsborough Lea Road

Order ID: 168506

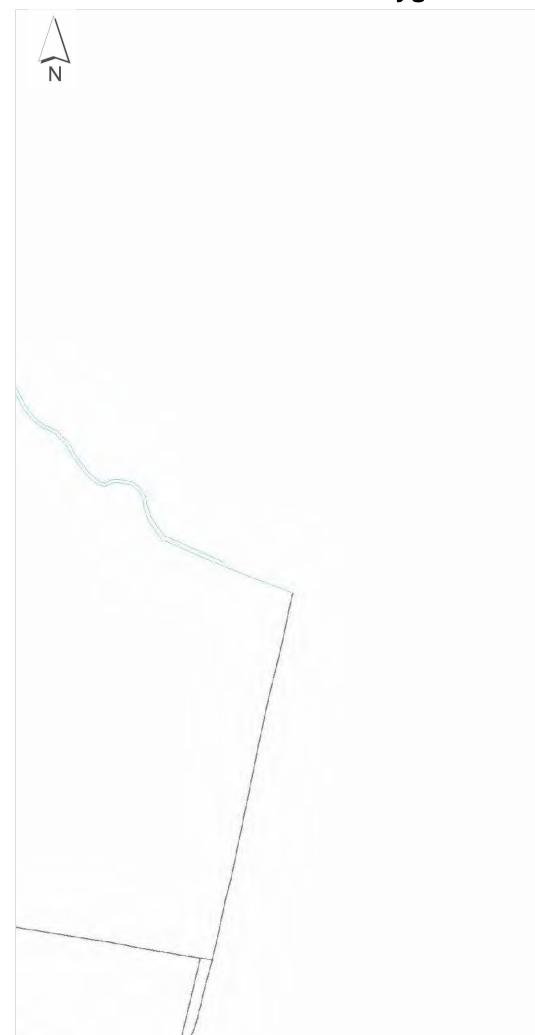
Order Ref: 168506 Plot Scale: 1:2500 Page Index: 5 Centre X, Y: 476650, 383428 Plot Date: 04/05/23



User Drawn Polygon / Area of Interest - Order ID : 168506



Con	npany Ownership
	Freehold Ownership
1	Leasehold Ownership
35	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon



### Legend

Con	npany Ownership
	Freehold Ownership
1	Leasehold Ownership
35	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

### Nearest station: Gainsborough Lea Road

Order ID: 168506

Order Ref: 168506 Plot Scale: 1:2500 Page Index: 7 Centre X, Y: 477444, 382793 Plot Date: 04/05/23



User Drawn Polygon / Area of Interest - Order ID : 168506



Company Ownership	
	Freehold Ownership
1	Leasehold Ownership
35	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

### Nearest station: Gainsborough Lea Road

Order ID: 168506

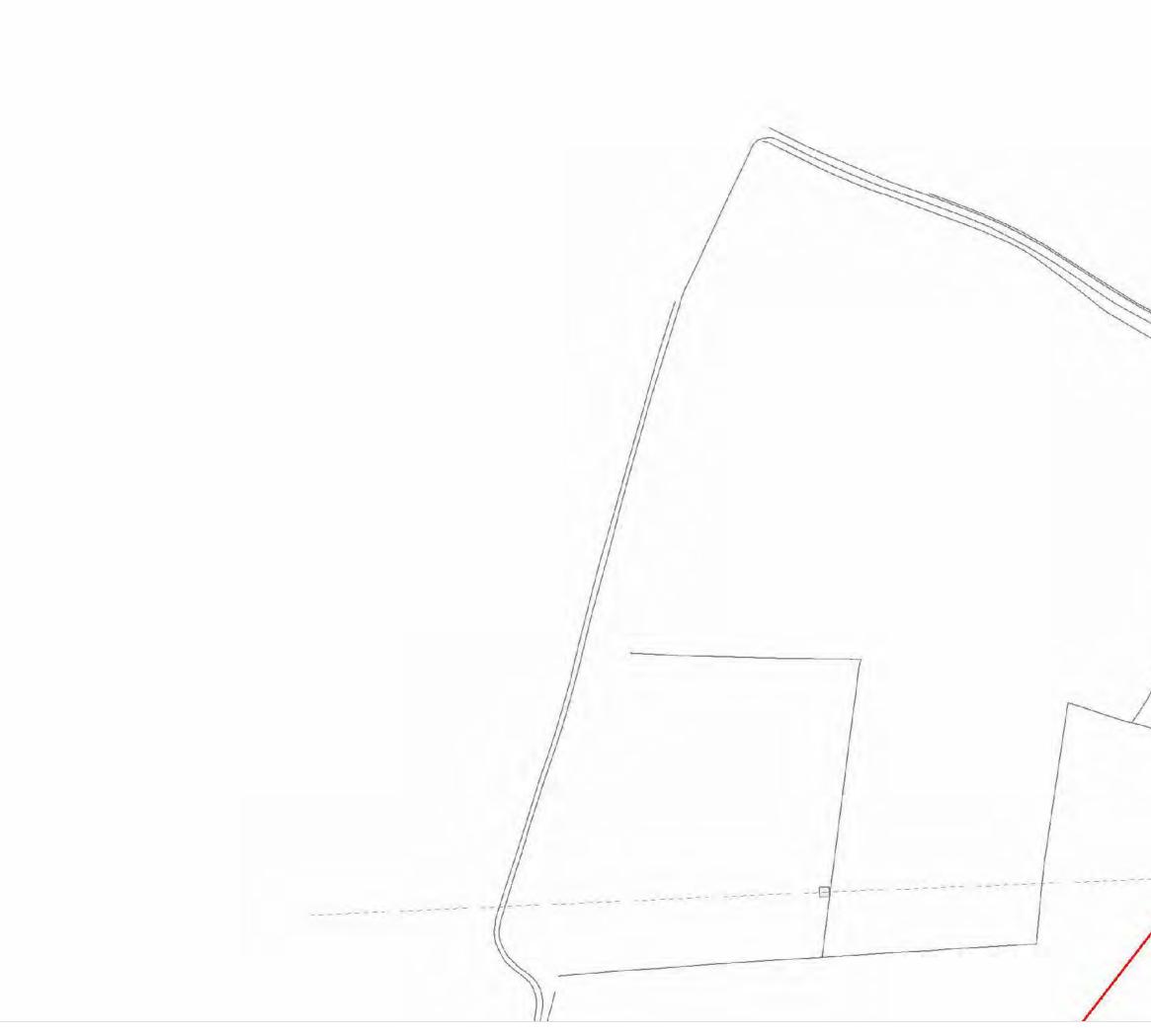
Order Ref: 168506 Plot Scale: 1:2500 Page Index: 8 Centre X, Y: 477444, 383428 Plot Date: 04/05/23





## Legend

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### Legend

Company Ownership	
	Freehold Ownership
11	Leasehold Ownership
8	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

Nearest station: Gainsborough Lea Road

Order ID: 168506

Order Ref: 168506 Plot Scale: 1:2500 Page Index: 10 Centre X, Y: 477444, 384698 Plot Date: 04/05/23



1

User Drawn Polygon / Area of Interest - Order ID : 168506



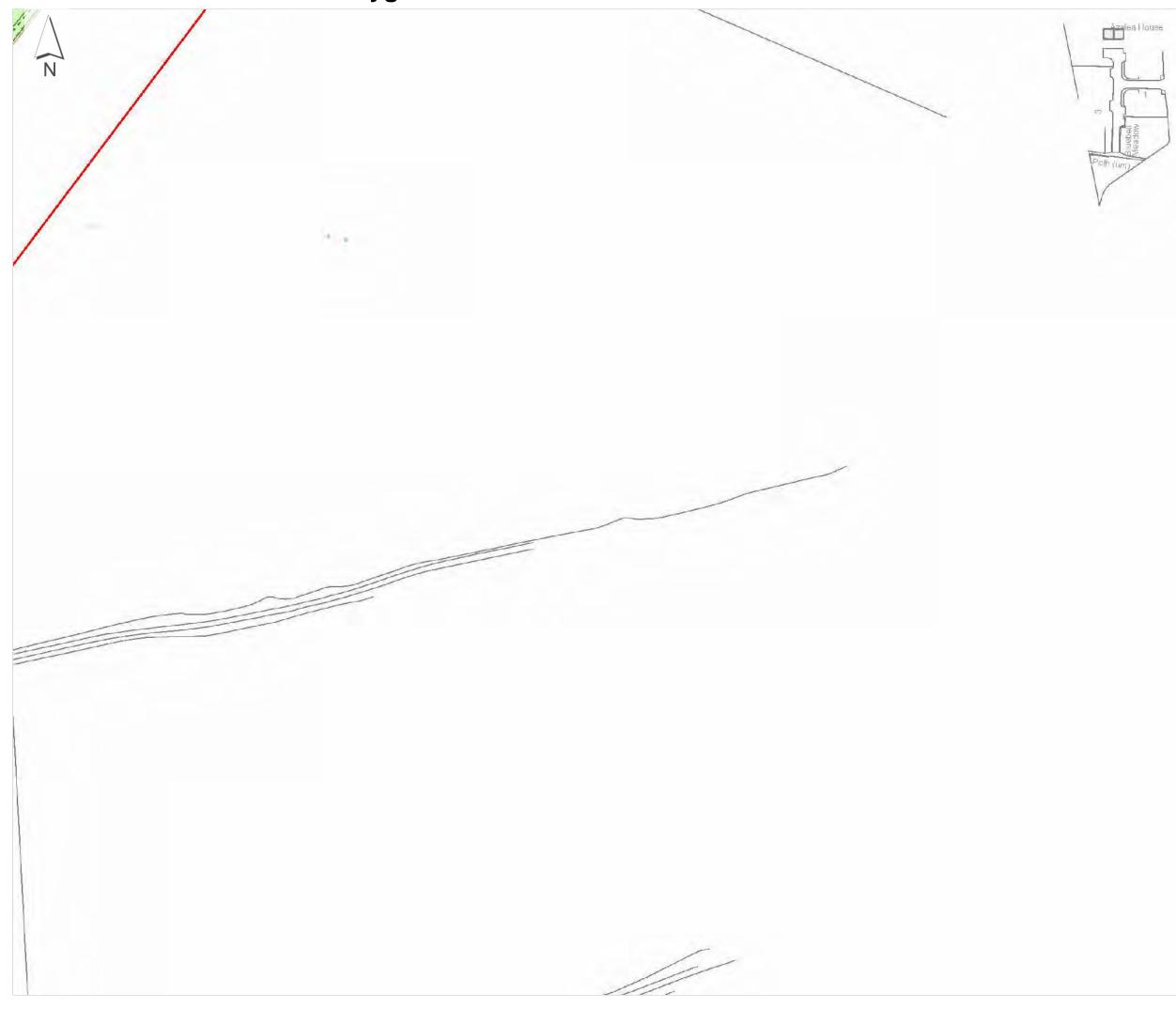
Company Ownership	
	Freehold Ownership
11	Leasehold Ownership
-	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

# Nearest station: Gainsborough Lea Road

Order ID: 168506

Order Ref: 168506 Plot Scale: 1:2500 Page Index: 11 Centre X, Y: 478238, 382158 Plot Date: 04/05/23





## Legend

Company Ownership	
	Freehold Ownership
1	Leasehold Ownership
35	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

### Nearest station: Gainsborough Lea Road

Order ID: 168506

Order Ref: 168506 Plot Scale: 1:2500 Page Index: 12 Centre X, Y: 478238, 384063 Plot Date: 04/05/23



User Drawn Polygon / Area of Interest - Order ID : 168506



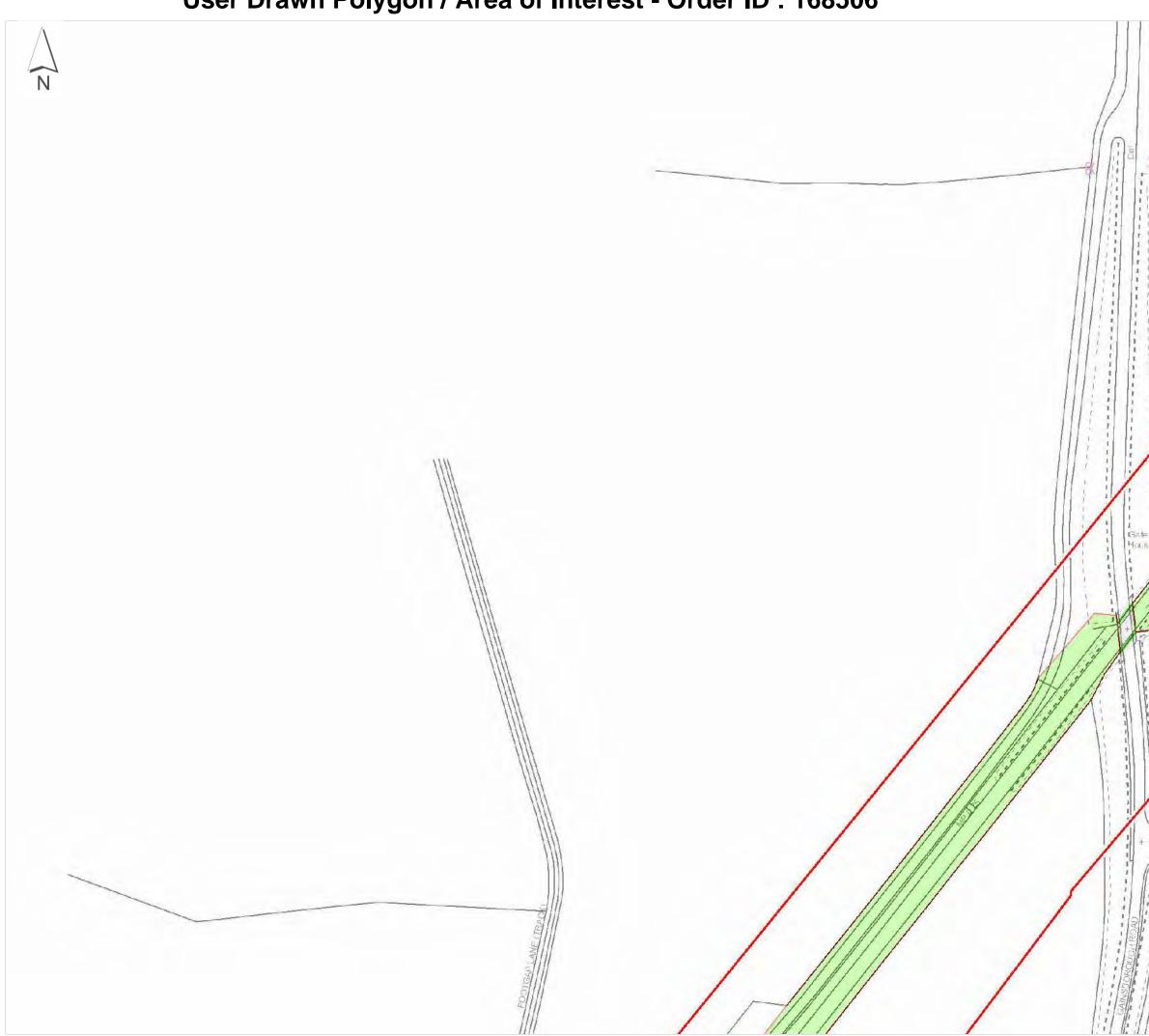
Company Ownership	
	Freehold Ownership
1	Leasehold Ownership
÷.	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

### Nearest station: Gainsborough Lea Road

Order ID: 168506

Order Ref: 168506 Plot Scale: 1:2500 Page Index: 13 Centre X, Y: 478238, 384698 Plot Date: 04/05/23





## Legend

1.22m RH

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Company Ownership	
	Freehold Ownership
11	Leasehold Ownership
35	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

Nearest station: Gainsborough Lea Road

Order ID: 168506

Order Ref: 168506 Plot Scale: 1:2500 Page Index: 14 Centre X, Y: 478238, 385333 Plot Date: 04/05/23



\_11 7n

User Drawn Polygon / Area of Interest - Order ID : 168506



Company Ownership	
	Freehold Ownership
1	Leasehold Ownership
25	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

### Nearest station: Gainsborough Lea Road

Order ID: 168506

Order Ref: 168506 Plot Scale: 1:2500 Page Index: 15 Centre X, Y: 479031, 385333 Plot Date: 04/05/23



User Drawn Polygon / Area of Interest - Order ID : 168506



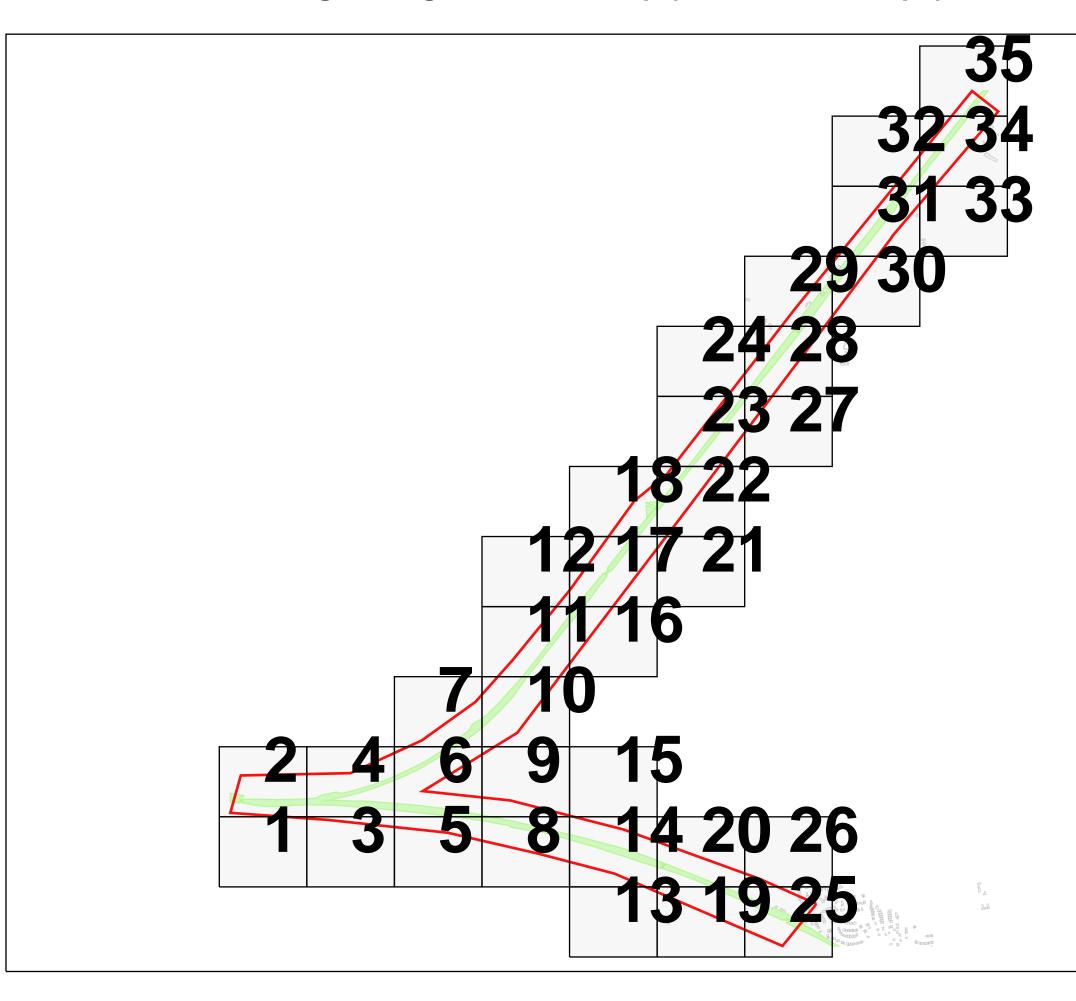
Company Ownership	
	Freehold Ownership
1	Leasehold Ownership
35	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon

### Nearest station: Gainsborough Lea Road

Order ID: 168506

Order Ref: 168506 Plot Scale: 1:2500 Page Index: 16 Centre X, Y: 479031, 385968 Plot Date: 04/05/23

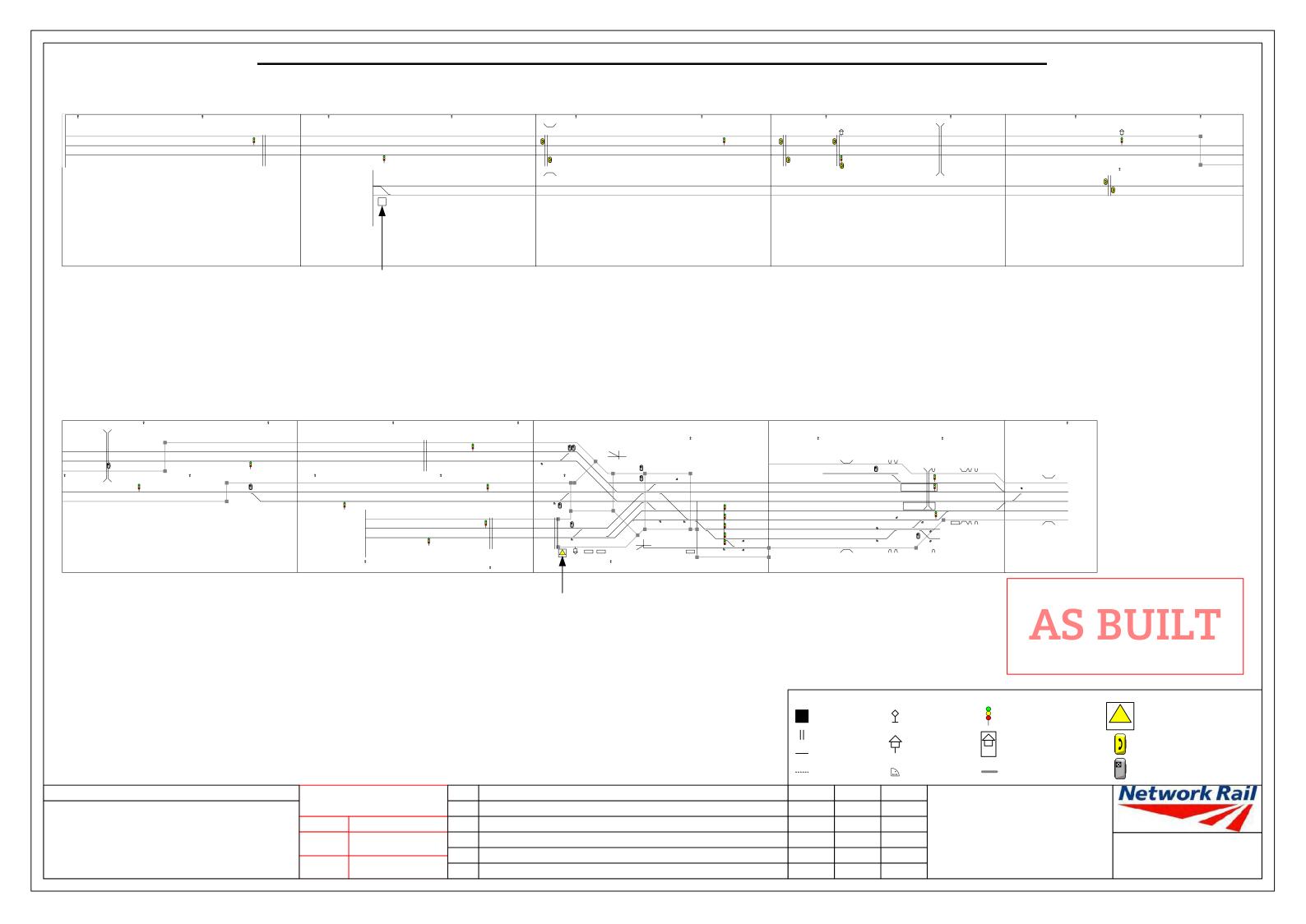




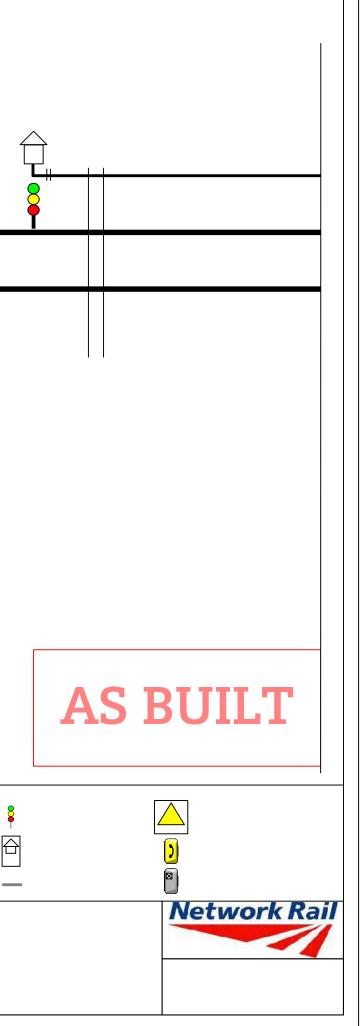


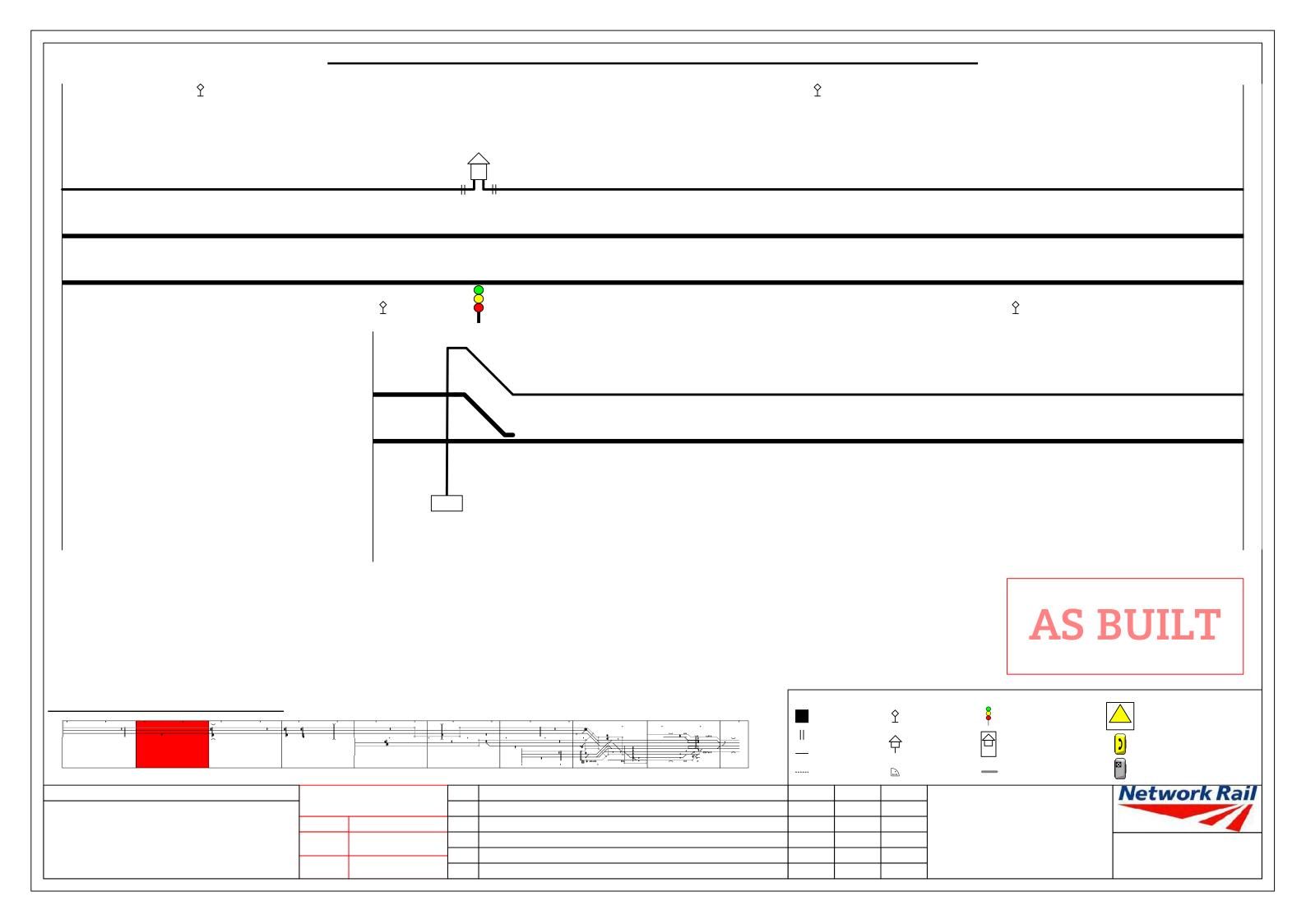
Order ID: 168506 Plot Date: 04/05/23



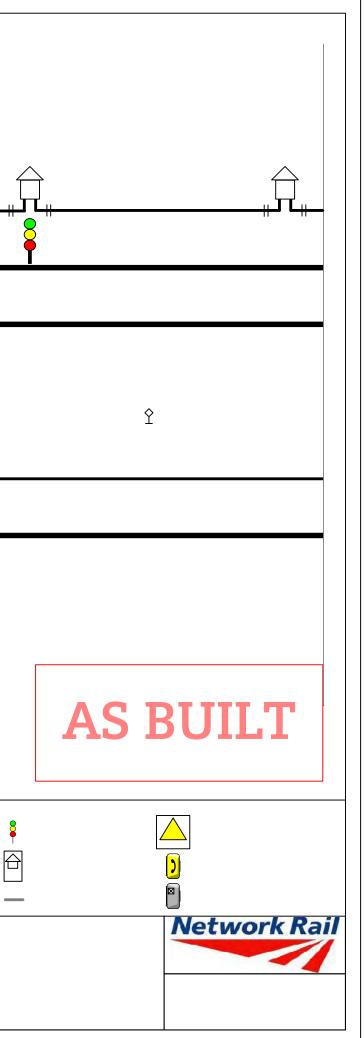


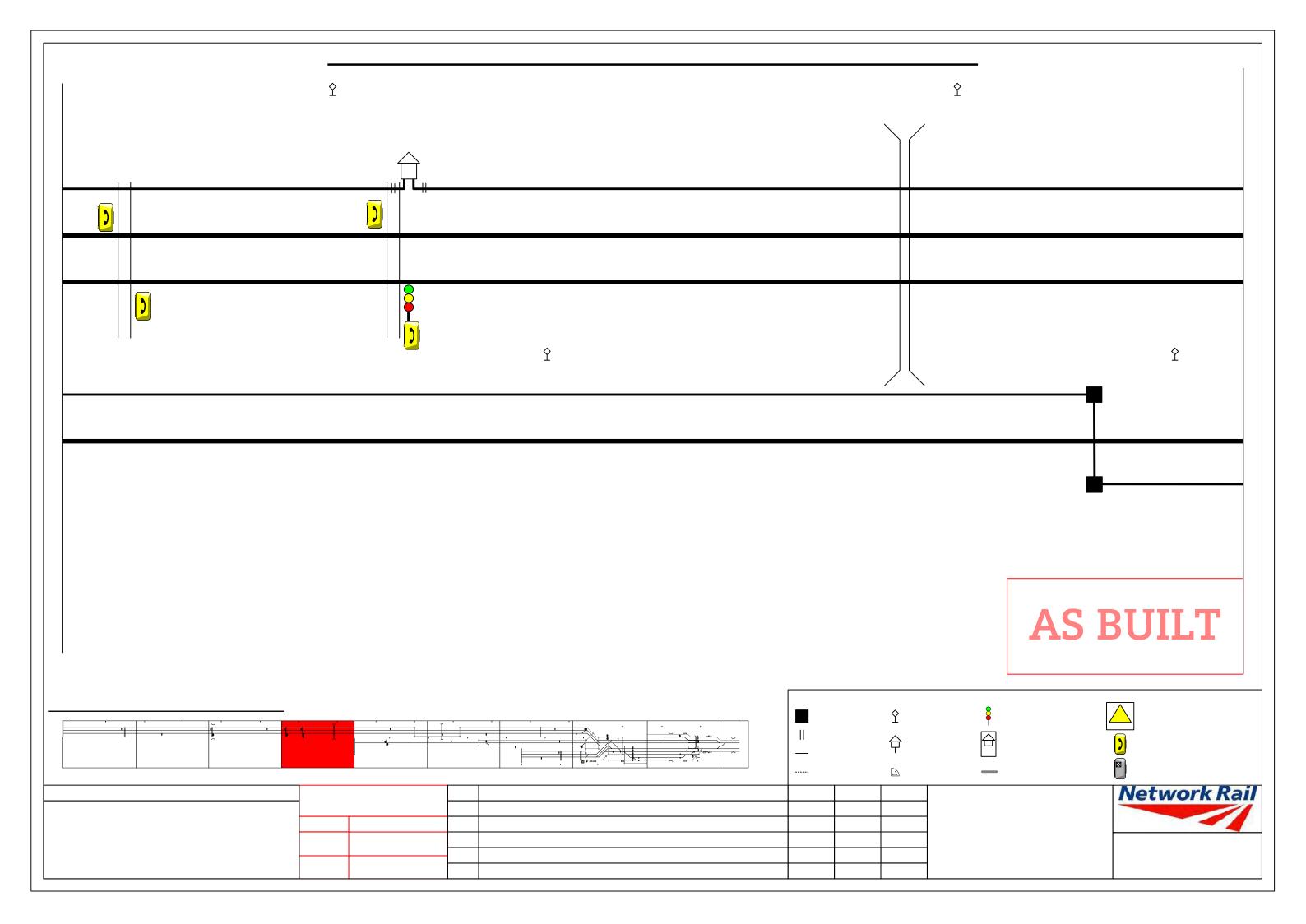
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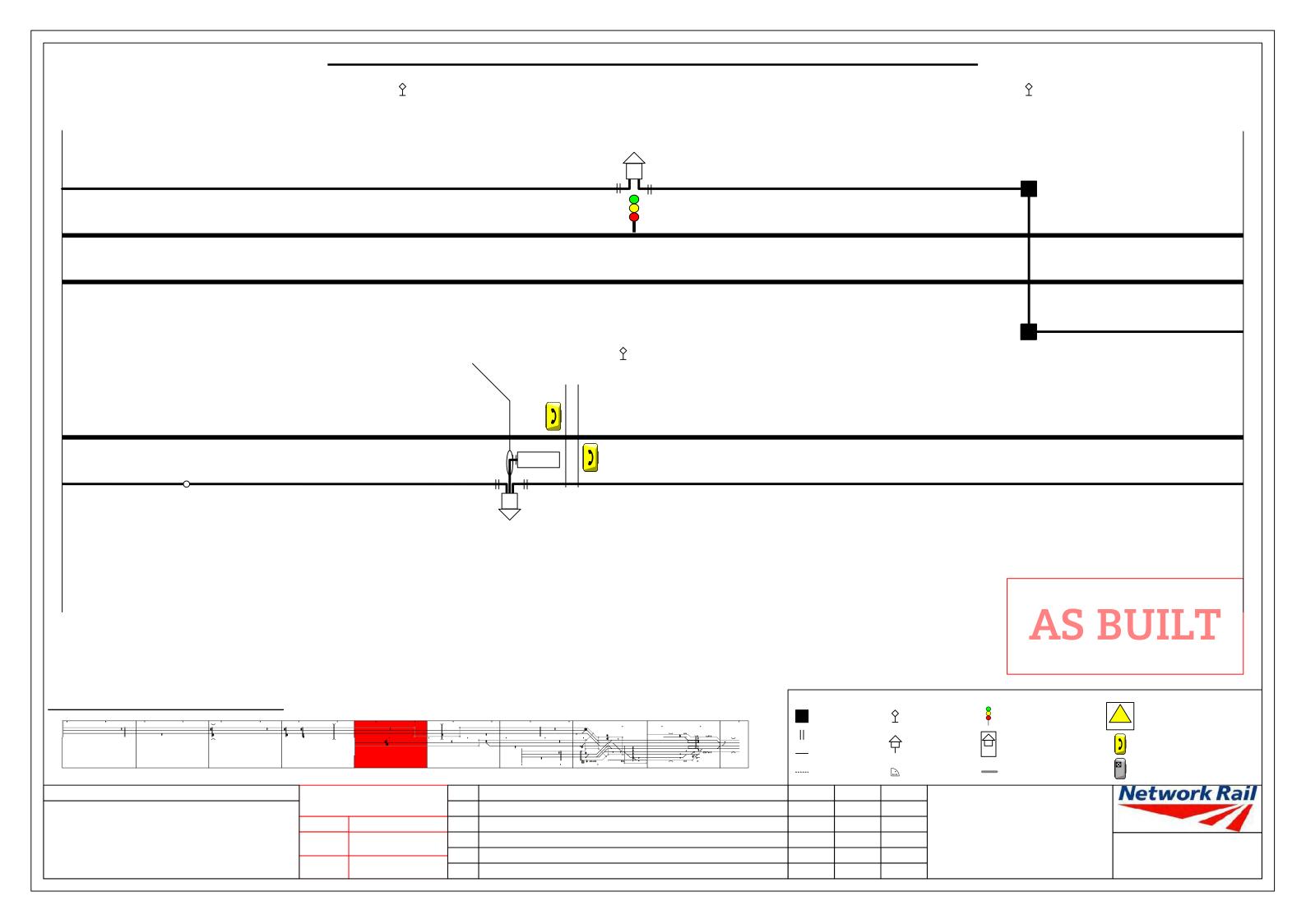


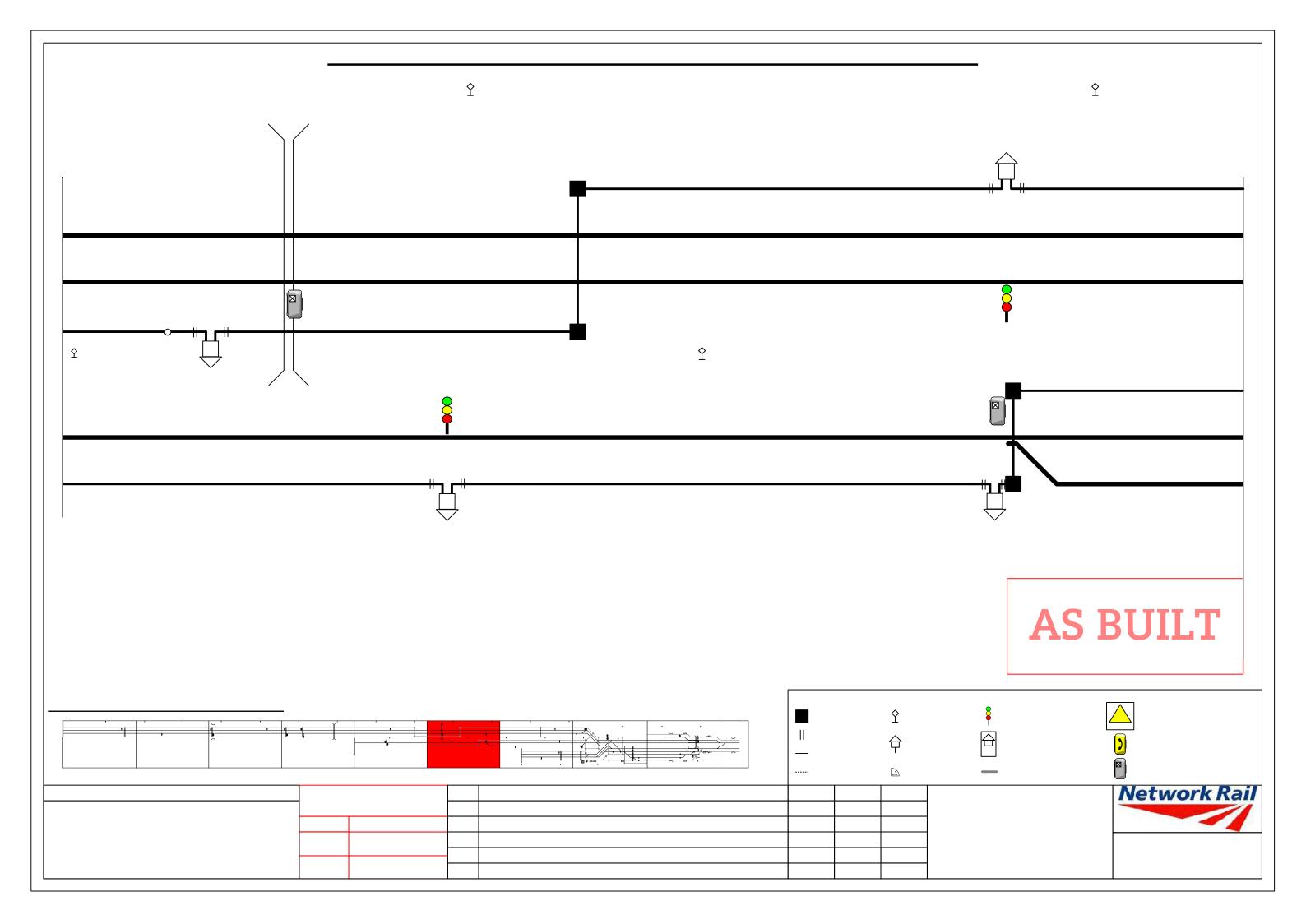


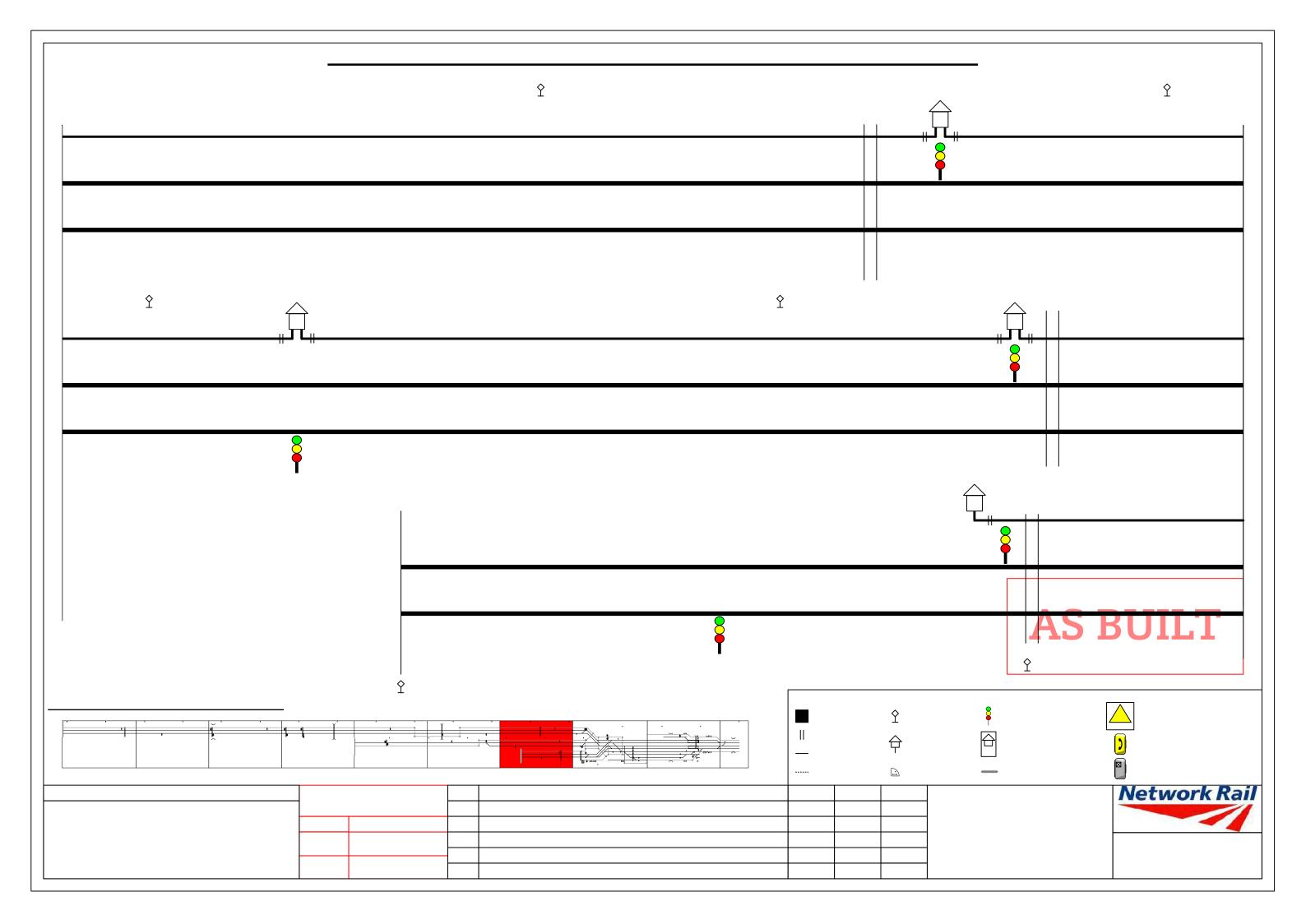
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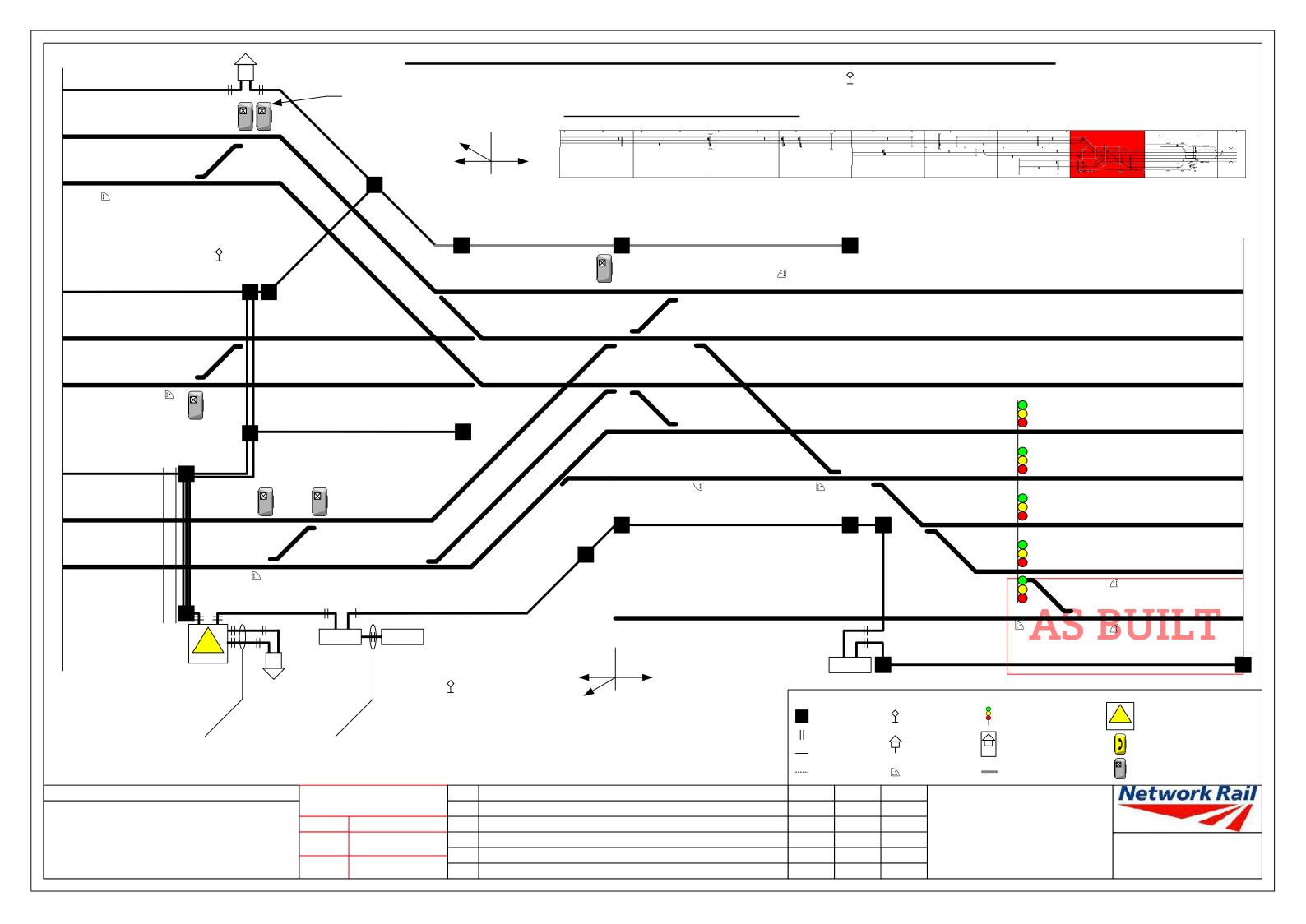


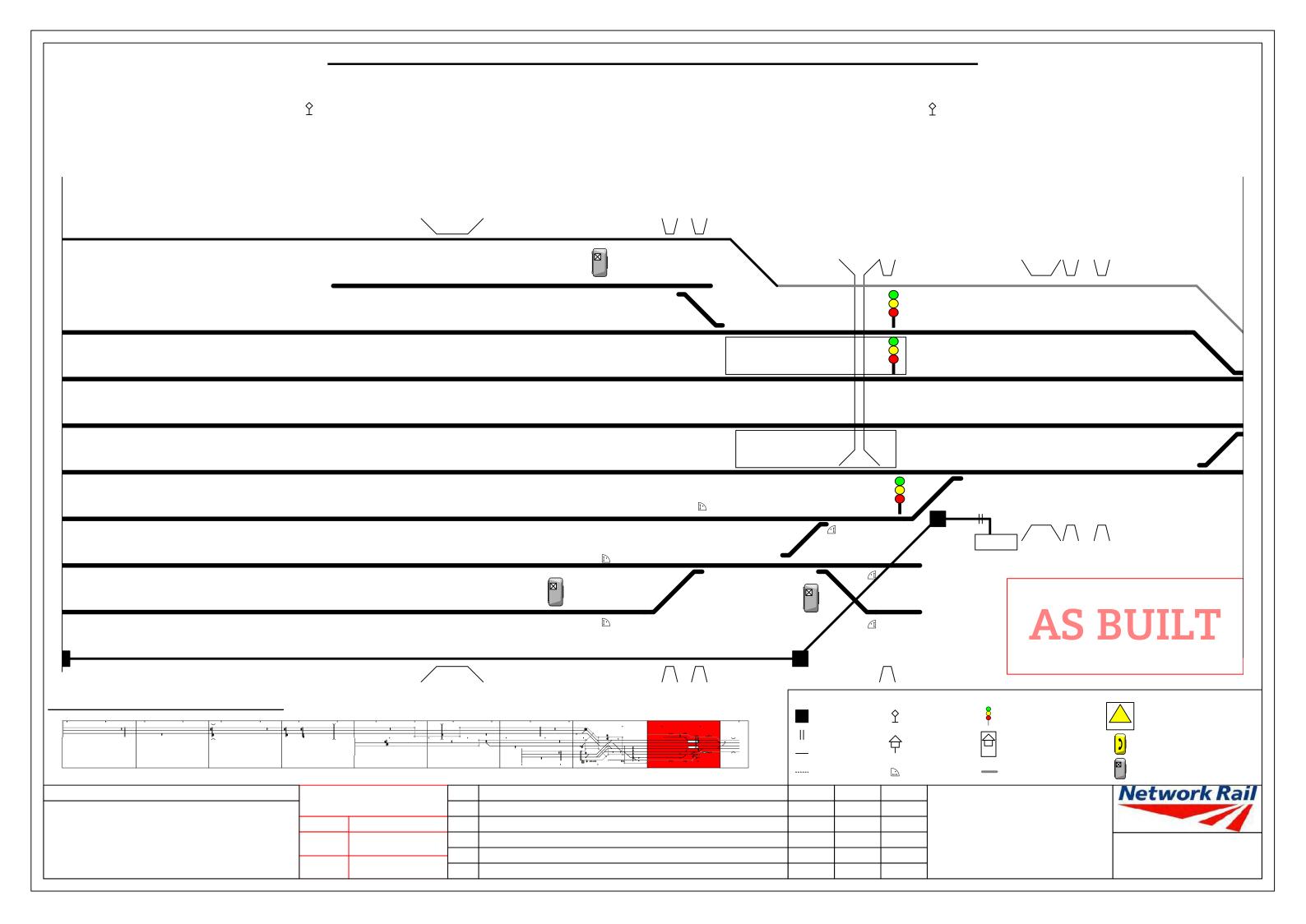


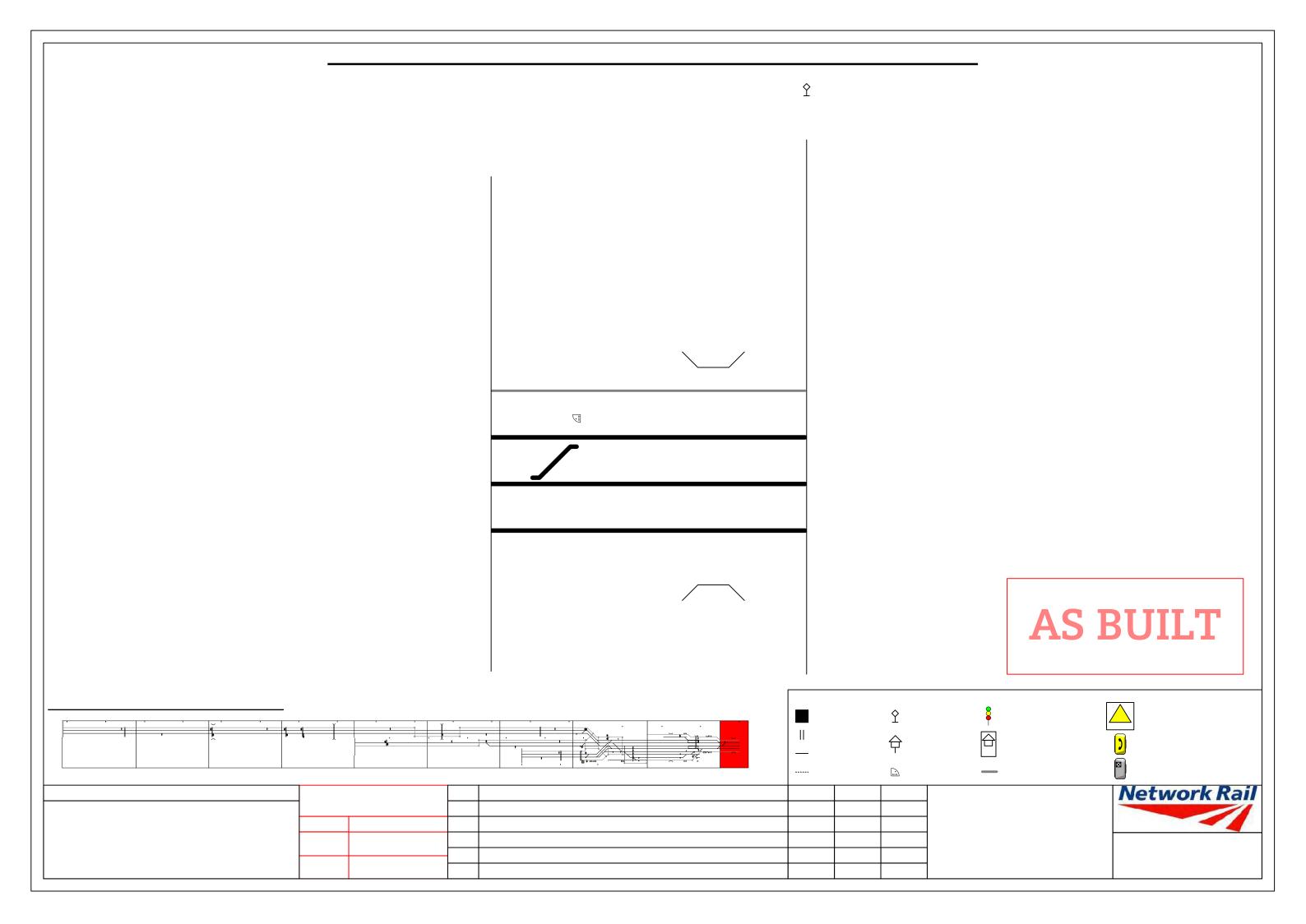


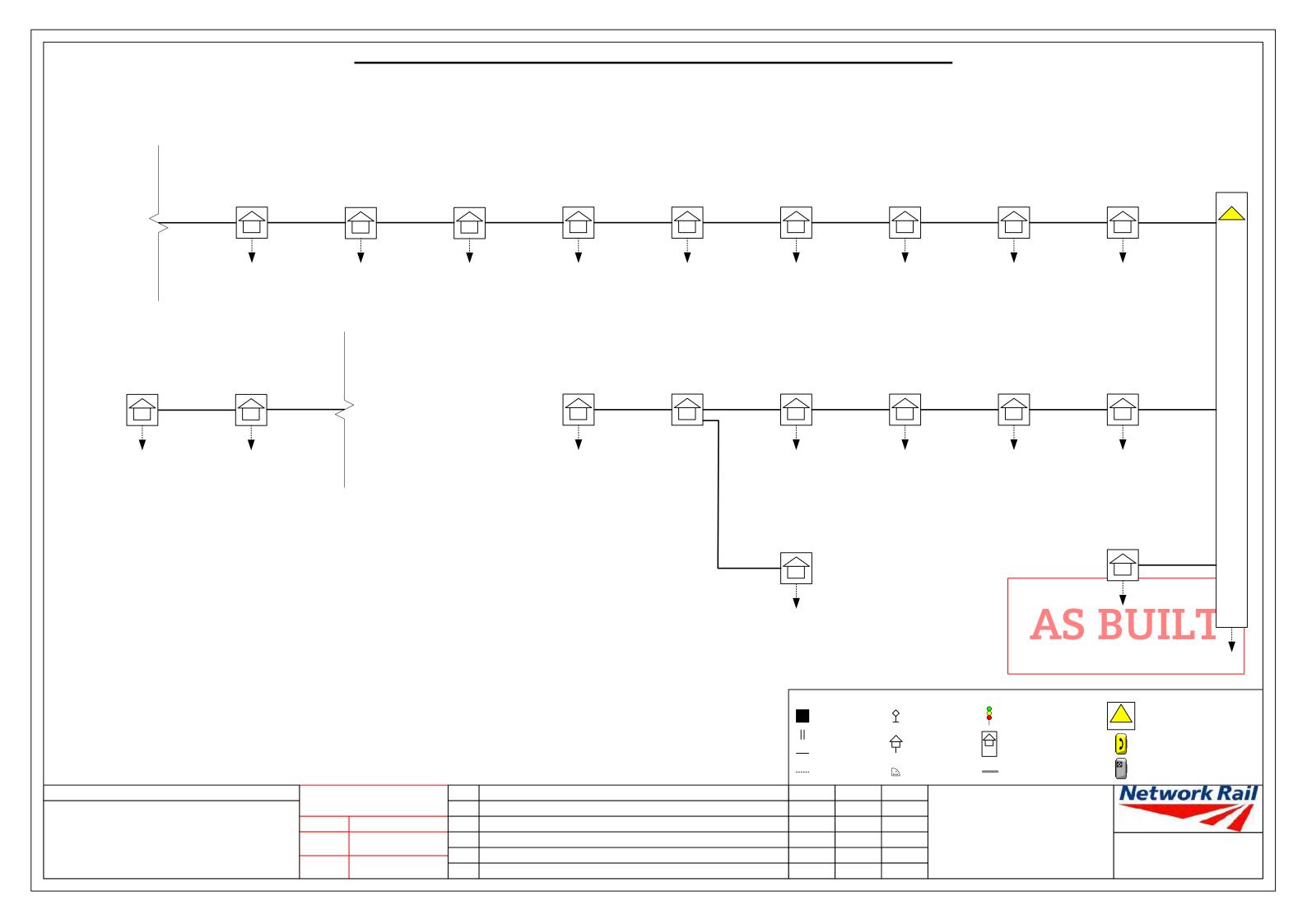


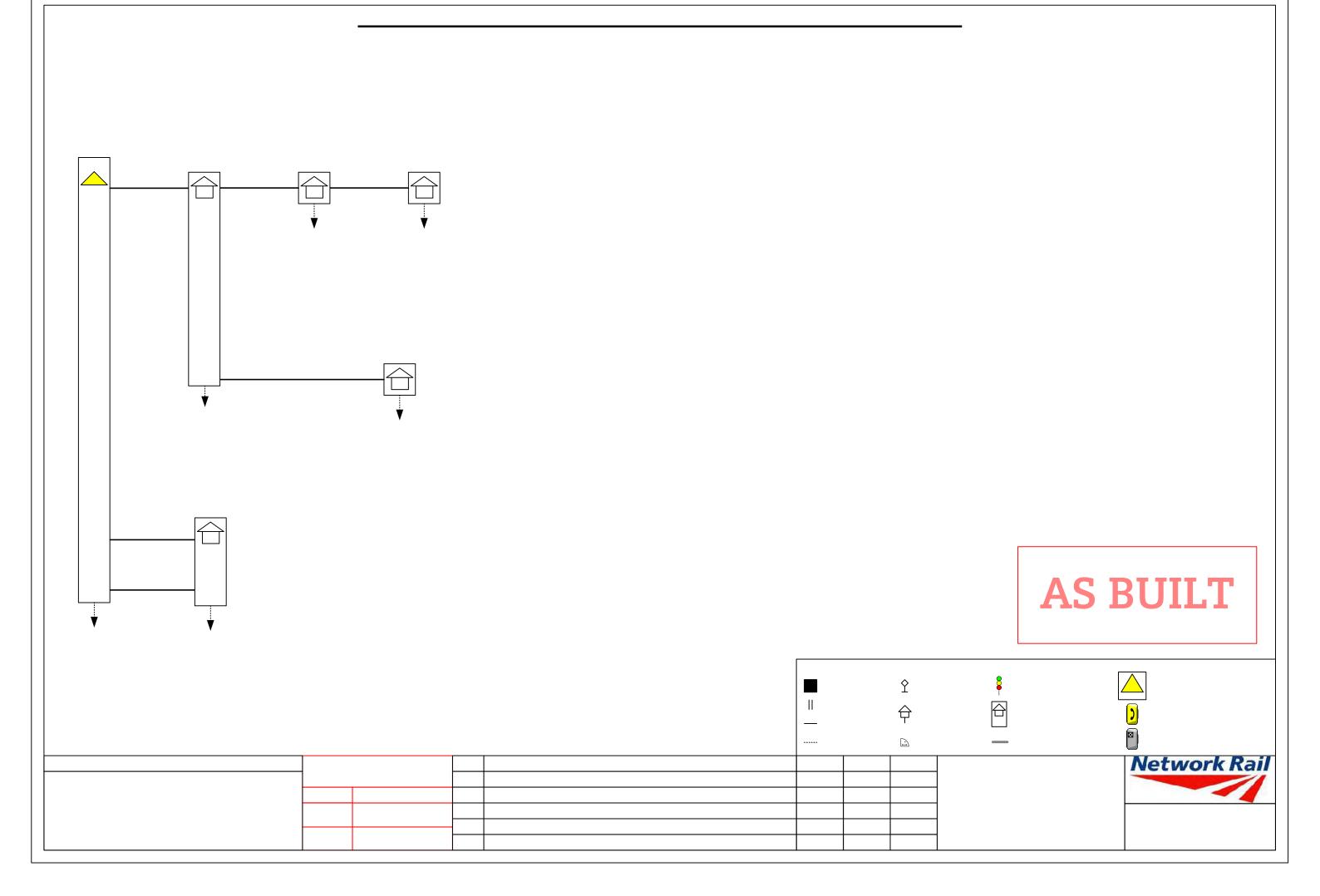












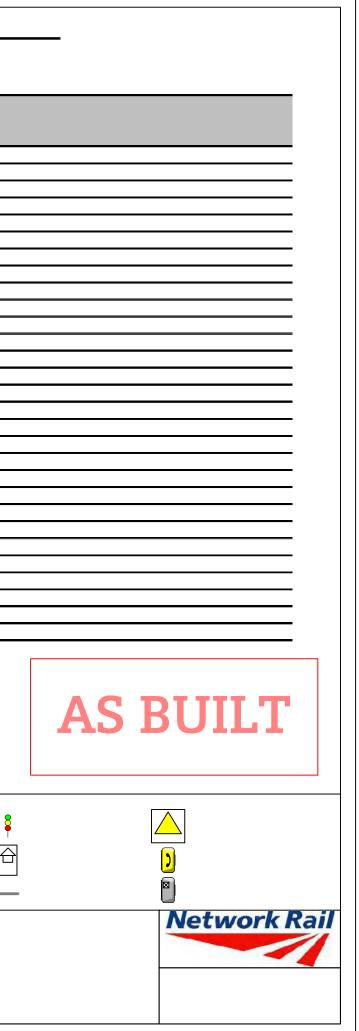
Cable ID	Cable Type	From	Track Meterage	То	Track Meterage	c-c Length	X-Track	Terminations	Deviation	Total Length Required
C-STUB-WRYS-A	30pr / 0.9mm	Wrawby FTN REB (WRYS)	20688m (NOB3)	C-STUB-WRYS-A-01	53680m	30m	6	2	5m	450m
C-STUB-WRYS-A	30pr / 0.9mm	C-STUB-WRYS-A-01	53680m	C-STUB-WRYS-A-02	53367m	313m	0	2	5m	328m
C-STUB-WRYS-A	30pr / 0.9mm	C-STUB-WRYS-A-02	53367m	C-STUB-WRYS-A-03	52650m	717m	0	2	7m	735m
C-STUB-WRYS-A	30pr / 0.9mm	C-STUB-WRYS-A-03	52650m	C-STUB-WRYS-A-04	52138m	512m	2	2	5m	548m
C-STUB-WRYS-A	30pr / 0.9mm	C-STUB-WRYS-A-04	52138m	C-STUB-WRYS-A-05	51650m	488m	2	2	5m	524m
C-STUB-WRYS-A	30pr / 0.9mm²	C-STUB-WRYS-A-05	51650m	C-STUB-WRYS-A-06	50745m	905m	0	2	9m	925m
C-STUB-WRYS-A	30pr / 0.9mm²	C-STUB-WRYS-A-06	50745m	C-STUB-WRYS-A-07	50556m	189m	0	2	5m	204m
C-STUB-WRYS-A	30pr / 0.9mm²	C-STUB-WRYS-A-07	50556m	C-STUB-WRYS-A-08	50367m	189m	0	2	5m	204m
C-STUB-WRYS-A	30pr / 0.9mm²	C-STUB-WRYS-A-08	50367m	C-STUB-WRYS-A-09	49793m	574m	0	2	6m	590m
C-STUB-WRYS-A	30pr / 0.9mm²	C-STUB-WRYS-A-09	49793m	C-STUB-WRYS-A-10	49270m	523m	0	2	5m	539m
C-STUB-WRYS-A	30pr / 0.9mm²	C-STUB-WRYS-A-10	49270m	C-STUB-WRYS-A-11	48850m	420m	0	2	5m	435m
C-STUB-WRYS-B	30pr / 0.9mm	Wrawby FTN REB (WRYS)	20688m (NOB3)	C-STUB-WRYS-B-01	151018m	241m	4	2	5m	602m
C-STUB-WRYS-B	30pr / 0.9mm	C-STUB-WRYS-B-01	151018m	C-STUB-WRYS-B-02	150556m	462m	0	2	5m	477m
C-STUB-WRYS-B	30pr / 0.9mm	C-STUB-WRYS-B-02	150556m	C-STUB-WRYS-B-03	150254m	202m	0	2	5m	217m
C-STUB-WRYS-B	30pr / 0.9mm	C-STUB-WRYS-B-03	150254m	C-STUB-WRYS-B-04	149893m	461m	0	2	5m	486m
C-STUB-WRYS-B	30pr / 0.9mm	C-STUB-WRYS-B-04	149893m	C-STUB-WRYS-B-05	149190m	703m	0	2 <b>A</b>	S Z	720m
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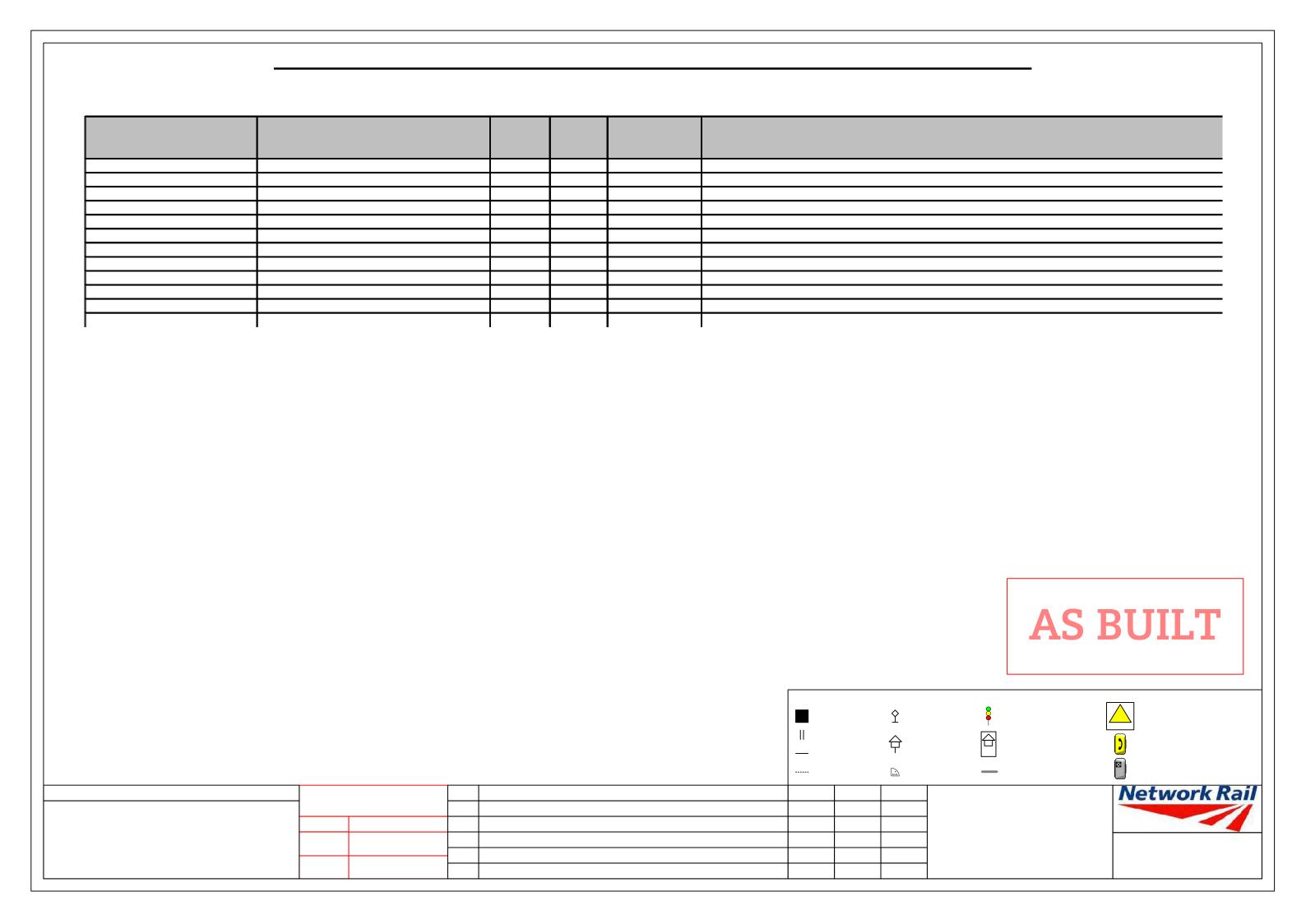
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Cable ID	Cable Type	From	Track Meterage	То	Track Meterage	c-c Length	X-Track	Terminations	Deviation	Total Length Required
C-STUB-WRYS-C	30pr / 0.9mm	Wrawby FTN REB (WRYS)	20688m	C-STUB-WRYS-C-01	20603m	85m	0	2	5m	110m
C-STUB-WRYS-C	30pr / 0.9mm	C-STUB-WRYS-C-01	20603m (NOB3)	C-STUB-WRYS-C-02	151672m (MAC3)	328m	2	2	5m	373m
C-STUB-WRYS-C	30pr / 0.9mm	C-STUB-WRYS-C-02	151672m	C-STUB-WRYS-C-03	152542m	870m	4	2	9m	940m
C-STUB-WRYS-D	10pr / 0.9mm	Wrawby FTN REB (WRYS)	20688m	C-STUB-WRYS-D-01	20945m	257m	2	2	5m	297m
C-STUB-WRYS-E	10pr / 0.9mm	C-STUB-WRYS-C-01	20603m	Wrawby PSP	20583m	20m	0	2	5m	40m
C-STUB-WRYS-F	10pr / 0.9mm	C-STUB-WRYS-B-05	149190m	Brigg SB	146862m	2328m	3	2	10m	2424m
C-STUB-WRYS-G	10pr / 0.9mm	C-STUB-WRYS-B-05	149190m	Sig REB 92/42	149200m	10m	0	2	5m	30m
C-SSI-LDT12/44A-03A	10pr / 0.9mm	Wrawby FTN REB (WRYS)	20688m	LDT SIG LOC 12/44A CASE A	20668m	20m	0	2	5m	40m
C-SSI-LDT12/44A-04B	10pr / 0.9mm	Wrawby FTN REB (WRYS)	20688m	LDT SIG LOC 12/44A CASE A	20668m	20m	0	2	5m	40m
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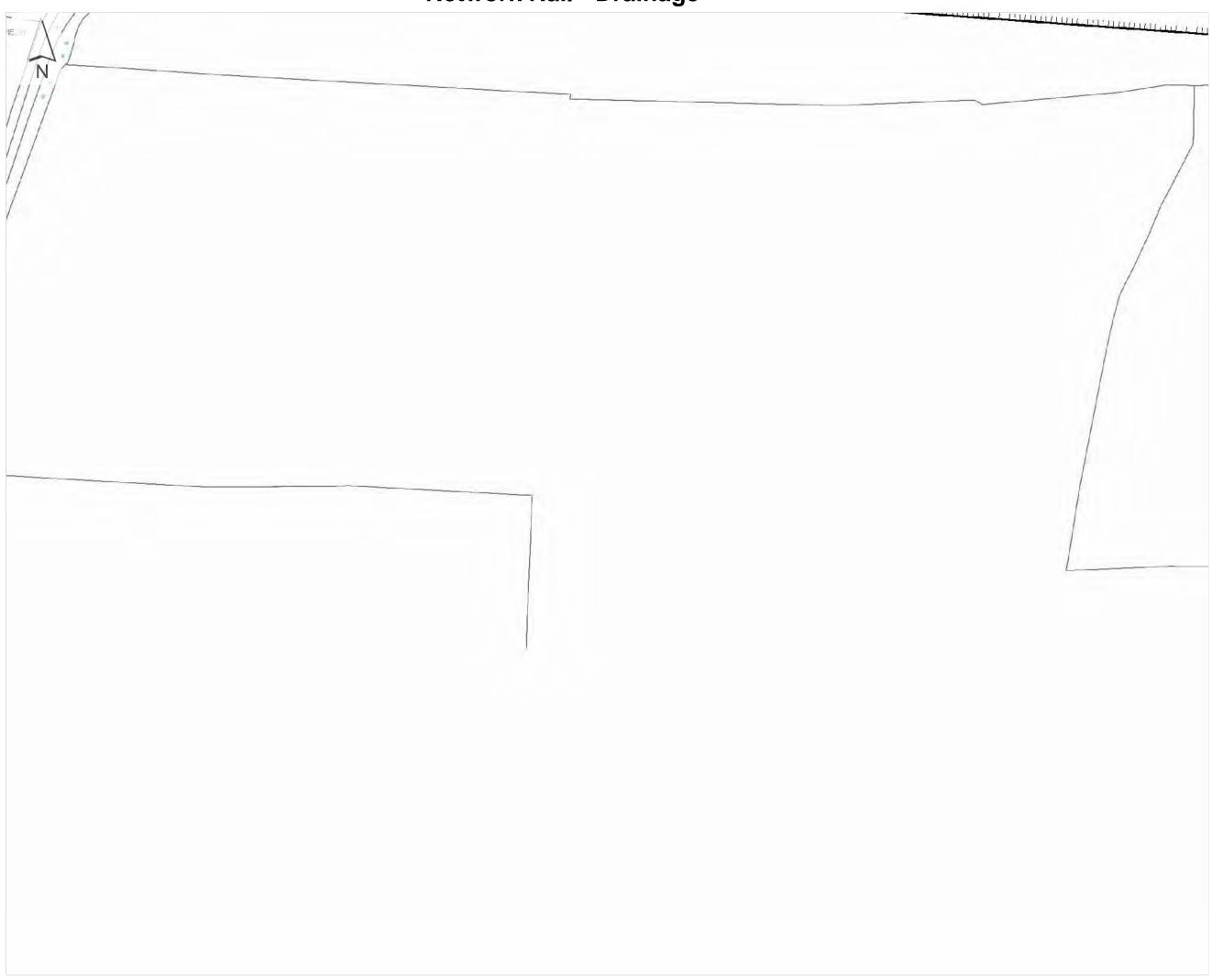
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**Network Rail - Drainage** 

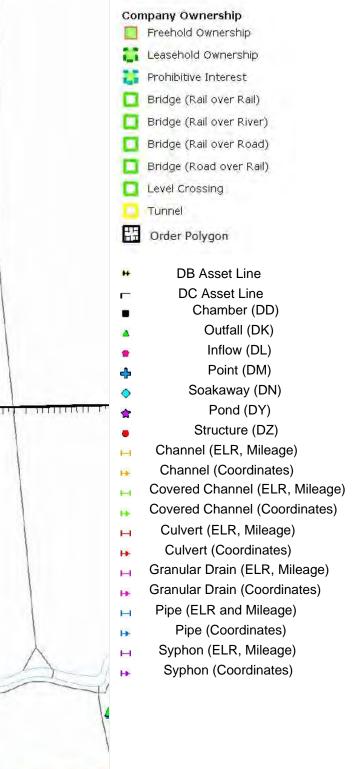


	n <b>pany Ownership</b> Freehold Ownership
	Leasehold Ownership
-	
-	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
EH.	Order Polygon
++	DB Asset Line
	DC Asset Line
	Chamber (DD)
<b>A</b>	Outfall (DK)
•	Inflow (DL)
4	Point (DM)
$\diamond$	Soakaway (DN)
	Pond (DY)
	Structure (DZ)
H	Channel (ELR, Mileage)
	Channel (Coordinates)
н	Covered Channel (ELR, Mileage)
	Covered Channel (Coordinates)
н	Culvert (ELR, Mileage)
H	Culvert (Coordinates)
н	Granular Drain (ELR, Mileage)
H	Granular Drain (Coordinates)
н	Pipe (ELR and Mileage)
H	Pipe (Coordinates)
н	Syphon (ELR, Mileage)
H	Syphon (Coordinates)

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 1 Centre X, Y: 475658, 382317 Plot Date: 04/05/23







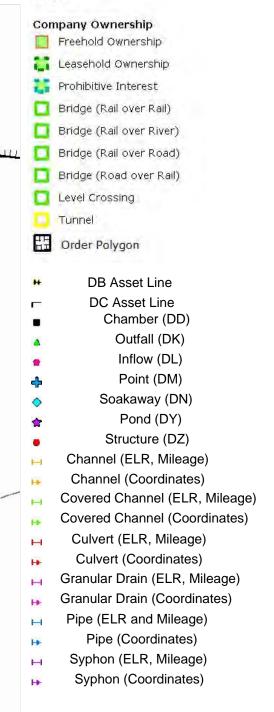
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Order Ref: 168506 Plot Scale: 1:1250 Page Index: 2 Centre X, Y: 475658, 382634 Plot Date: 04/05/23



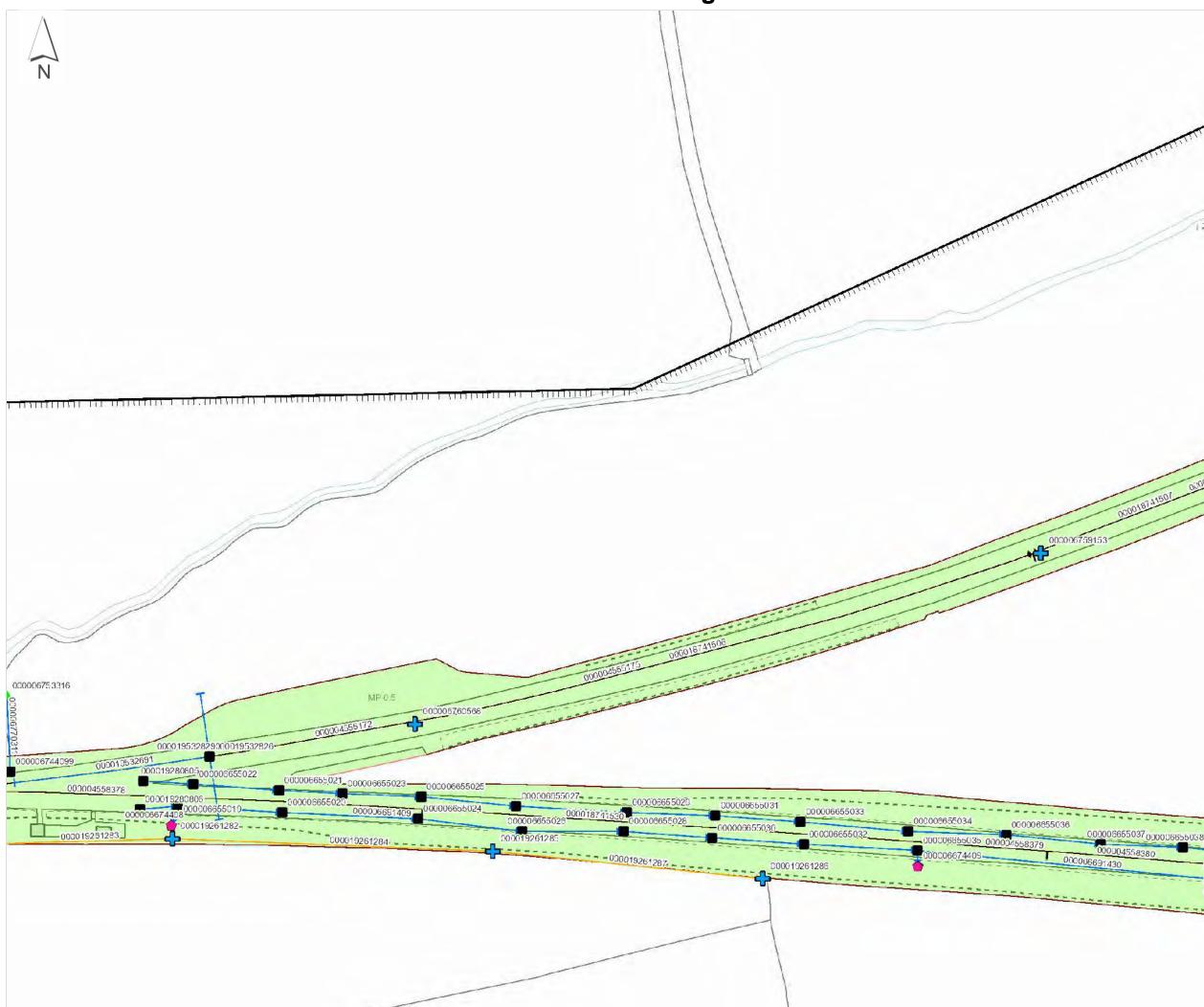
**Network Rail - Drainage** 





Order Ref: 168506 Plot Scale: 1:1250 Page Index: 3 Centre X, Y: 476055, 382317 Plot Date: 04/05/23





### Legend

Cor	npany Ownership
	Freehold Ownership
	Leasehold Ownership
-	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
<b>E</b> E	Order Polygon
	older Polygon
**	DB Asset Line
	DC Asset Line
	Chamber (DD)
4	Outfall (DK)
-	Inflow (DL)
÷	Point (DM)
$\diamond$	Soakaway (DN)
	Pond (DY)
٠	Structure (DZ)
H	Channel (ELR, Mileage)
	Channel (Coordinates)
H	Covered Channel (ELR, Mileage)
	Covered Channel (Coordinates)
н	Culvert (ELR, Mileage)
H	Culvert (Coordinates)
н	Granular Drain (ELR, Mileage)
H	Granular Drain (Coordinates)
н	Pipe (ELR and Mileage)
H	Pipe (Coordinates)
Н	Syphon (ELR, Mileage)
H	Syphon (Coordinates)

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 4 Centre X, Y: 476055, 382634 Plot Date: 04/05/23



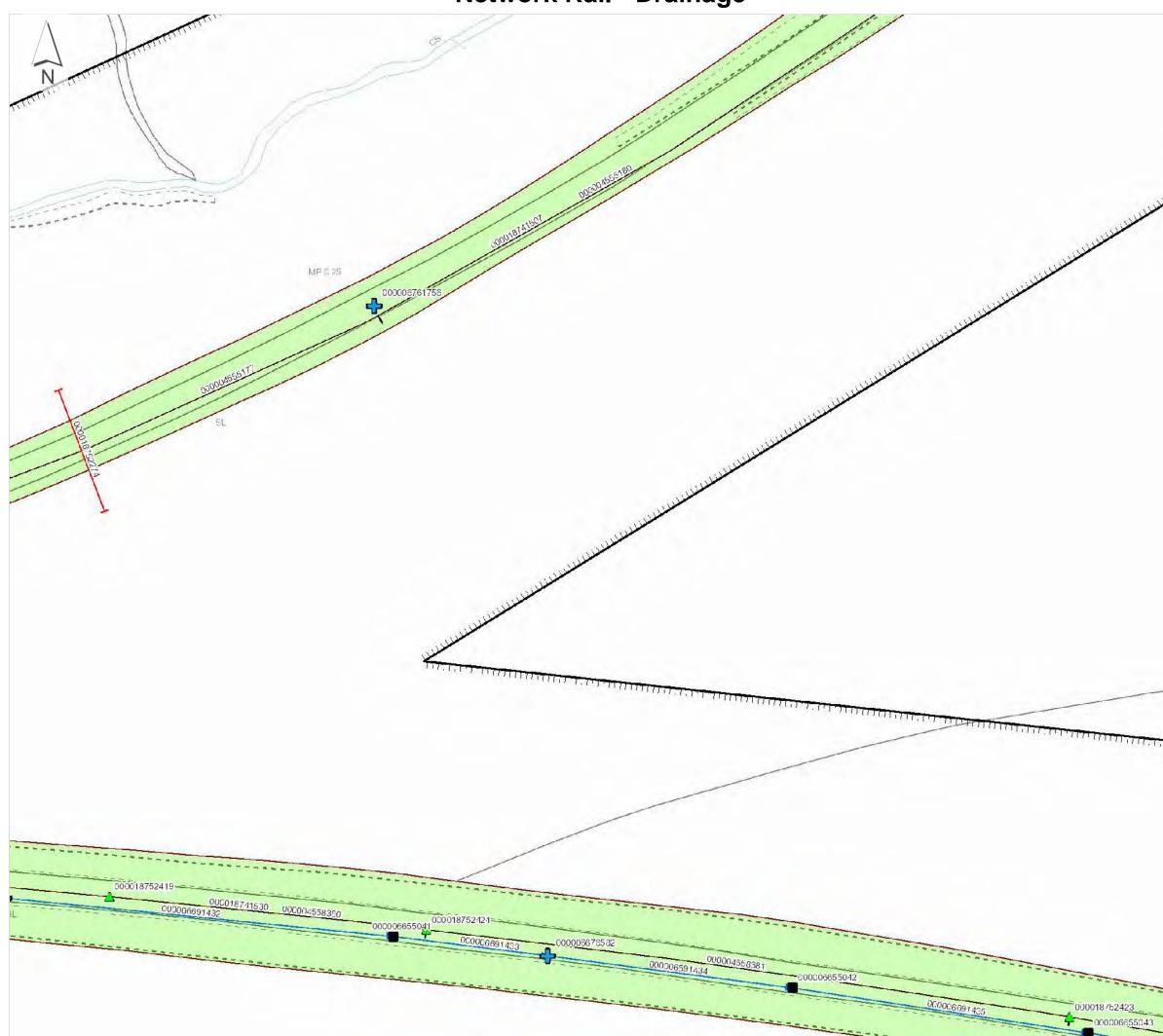
Network Rail - Drainage



	npany Ownership
	Freehold Ownership
-	Leasehold Ownership
	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
-	Order Polygon
	older Polygon
**	DB Asset Line
	DC Asset Line
	Chamber (DD)
▲	Outfall (DK)
•	Inflow (DL)
÷	Point (DM)
$\diamond$	Soakaway (DN)
	Pond (DY)
•	Structure (DZ)
H	Channel (ELR, Mileage)
	Channel (Coordinates)
H	Covered Channel (ELR, Mileage)
H	Covered Channel (Coordinates)
н	Culvert (ELR, Mileage)
H	Culvert (Coordinates)
н	Granular Drain (ELR, Mileage)
H	Granular Drain (Coordinates)
	Pipe (ELR and Mileage)
Н	
H H	Pipe (Coordinates)
	• • • •

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 5 Centre X, Y: 476452, 382317 Plot Date: 04/05/23





## Legend

Con	npany Ownership
	Freehold Ownership
	Leasehold Ownership
	Prohibitive Interest
	Bridge (Rail over Rail)
🗖 طليل	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon
	onder Polygon
**	DB Asset Line
5	DC Asset Line
	Chamber (DD)
<b>A</b>	Outfall (DK)
	Inflow (DL)
4	Point (DM)
$\diamond$	Soakaway (DN)
	Pond (DY)
	Structure (DZ)
-	Channel (ELR, Mileage)
	Channel (Coordinates)
-	Covered Channel (ELR, Mileage)
	Covered Channel (Coordinates)
н	Culvert (ELR, Mileage)
H	Culvert (Coordinates)
н	Granular Drain (ELR, Mileage)
H	Granular Drain (Coordinates)
н	Pipe (ELR and Mileage)
H	Pipe (Coordinates)
н	Syphon (ELR, Mileage)
- +	Syphon (Coordinates)

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 6 Centre X, Y: 476452, 382634 Plot Date: 04/05/23

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Con	npany Ownership
	Freehold Ownership
-	Leasehold Ownership
35	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
田田	Order Polygon
++	DB Asset Line
	DC Asset Line
	Chamber (DD)
	Outfall (DK)
•	Inflow (DL)
4	Point (DM)
$\diamond$	Soakaway (DN)
	Pond (DY)
۲	Structure (DZ)
H	Channel (ELR, Mileage)
H.	Channel (Coordinates)
-	Covered Channel (ELR, Mileage)
	Covered Channel (Coordinates)
н	Culvert (ELR, Mileage)
H	Culvert (Coordinates)
н	Granular Drain (ELR, Mileage)
H	Granular Drain (Coordinates)
н	Pipe (ELR and Mileage)

Pipe (Coordinates) Syphon (ELR, Mileage) Syphon (Coordinates)

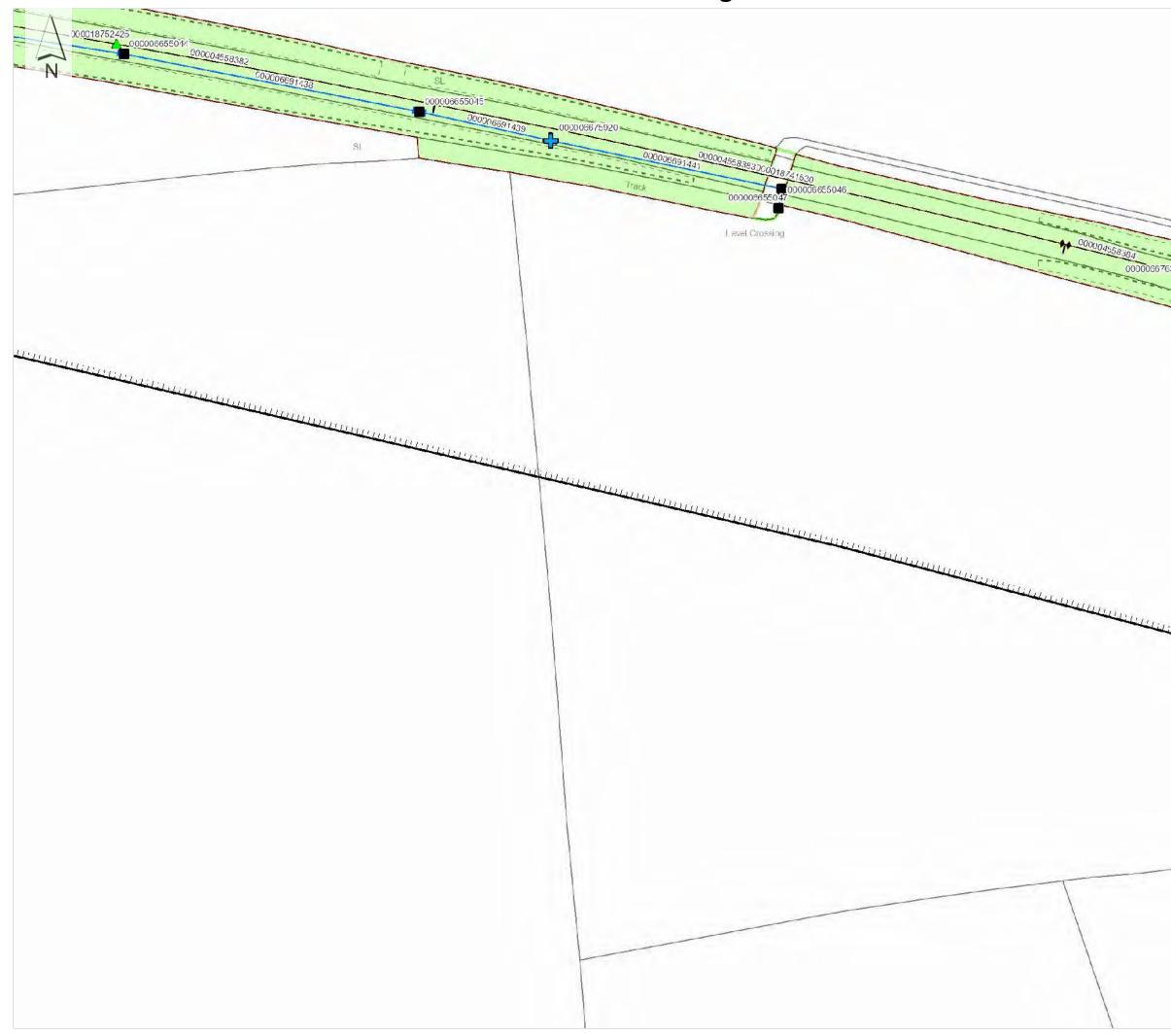
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Order Ref: 168506 Plot Scale: 1:1250 Page Index: 7 Centre X, Y: 476452, 382952 Plot Date: 04/05/23



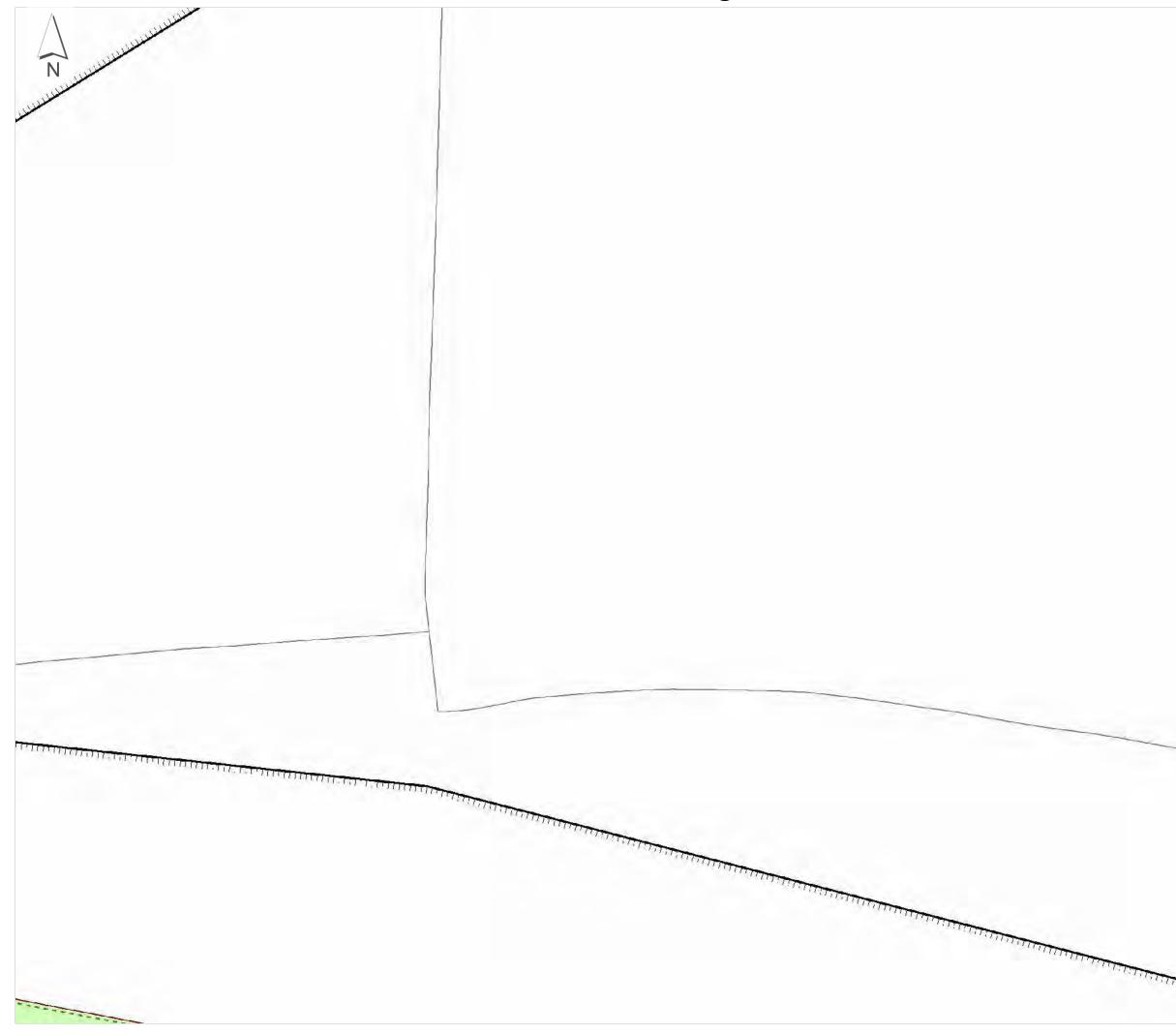


### Legend

Company Ownership			
	Freehold Ownership		
-	Leasehold Ownership		
8	Prohibitive Interest		
	Bridge (Rail over Rail)		
	Bridge (Rail over River)		
	Bridge (Rail over Road)		
	Bridge (Road over Rail)		
	Level Crossing		
	Tunnel		
田	Order Polygon		
+	DB Asset Line		
	DC Asset Line		
	Chamber (DD)		
4	Outfall (DK)		
•	Inflow (DL)		
4	Point (DM)		
$\diamond$	Soakaway (DN)		
	Pond (DY)		
	Structure (DZ)		
H	Channel (ELR, Mileage)		
H.	Channel (Coordinates)		
H	Covered Channel (ELR, Mileage)		
H	Covered Channel (Coordinates)		
н	Culvert (ELR, Mileage)		
H	Culvert (Coordinates)		
н	Granular Drain (ELR, Mileage)		
H+	Granular Drain (Coordinates)		
н	Pipe (ELR and Mileage)		
H+	Pipe (Coordinates)		
н	Syphon (ELR, Mileage)		
H	Syphon (Coordinates)		

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 8 Centre X, Y: 476849, 382317 Plot Date: 04/05/23





### Legend

Company Ownership			
	Freehold Ownership		
1	Leasehold Ownership		
3	Prohibitive Interest		
	Bridge (Rail over Rail)		
	Bridge (Rail over River)		
	Bridge (Rail over Road)		
	Bridge (Road over Rail)		
	Level Crossing		
	Tunnel		
盟	Order Polygon		
+	DB Asset Line		
	DC Asset Line		
	Chamber (DD)		
4	Outfall (DK)		
-	Inflow (DL)		
÷	Point (DM)		
$\diamond$	Soakaway (DN)		
	Pond (DY)		
	Structure (DZ)		
H	Channel (ELR, Mileage)		
H+	Channel (Coordinates)		
н	Covered Channel (ELR, Mileage)		
H	Covered Channel (Coordinates)		
н	Culvert (ELR, Mileage)		
H	Culvert (Coordinates)		
н	Granular Drain (ELR, Mileage)		
H+	Granular Drain (Coordinates)		
н	Pipe (ELR and Mileage)		
H	Pipe (Coordinates)		
н	Syphon (ELR, Mileage)		
H	Syphon (Coordinates)		

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 9 Centre X, Y: 476849, 382634 Plot Date: 04/05/23





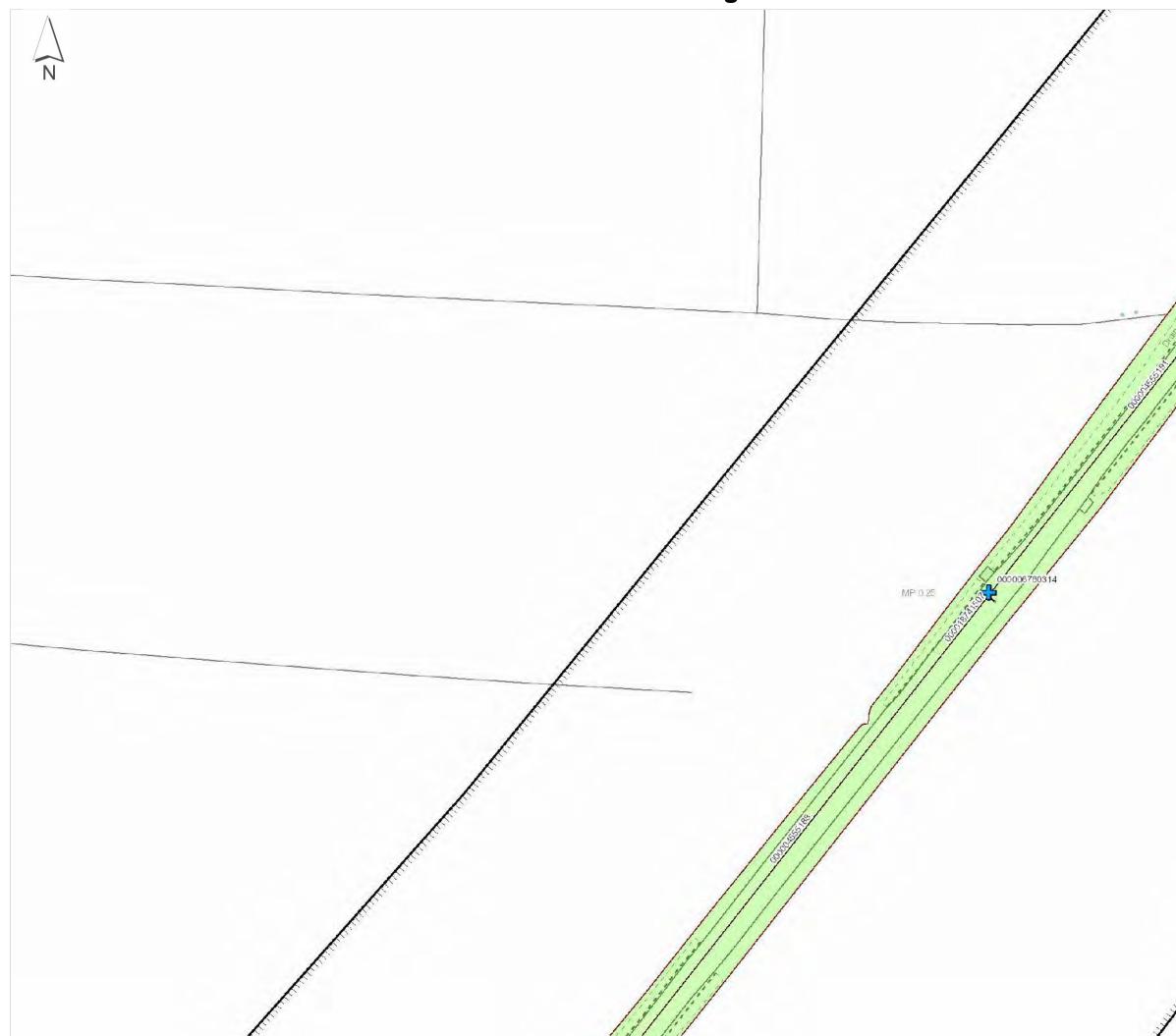
## Legend

Company Ownership Freehold Ownership			
-	Leasehold Ownership		
	Prohibitive Interest		
1000	Bridge (Rail over Rail)		
	Bridge (Rail over River)		
	Bridge (Rail over Road)		
100	Bridge (Road over Rail)		
-	Level Crossing		
	Tunnel		
田	Order Polygon		
++	DB Asset Line		
	DC Asset Line		
	Chamber (DD)		
4	Outfall (DK)		
•	Inflow (DL)		
4	Point (DM)		
$\diamond$	Soakaway (DN)		
	Pond (DY)		
	Structure (DZ)		
н	Channel (ELR, Mileage)		
H	Channel (Coordinates)		
H	Covered Channel (ELR, Mileage)		
H	Covered Channel (Coordinates)		
н	Culvert (ELR, Mileage)		
H	Culvert (Coordinates)		
н	Granular Drain (ELR, Mileage)		
H	Granular Drain (Coordinates)		
н	Pipe (ELR and Mileage)		
H	Pipe (Coordinates)		
н	Syphon (ELR, Mileage)		
H	Syphon (Coordinates)		

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 10 Centre X, Y: 476849, 382952 Plot Date: 04/05/23



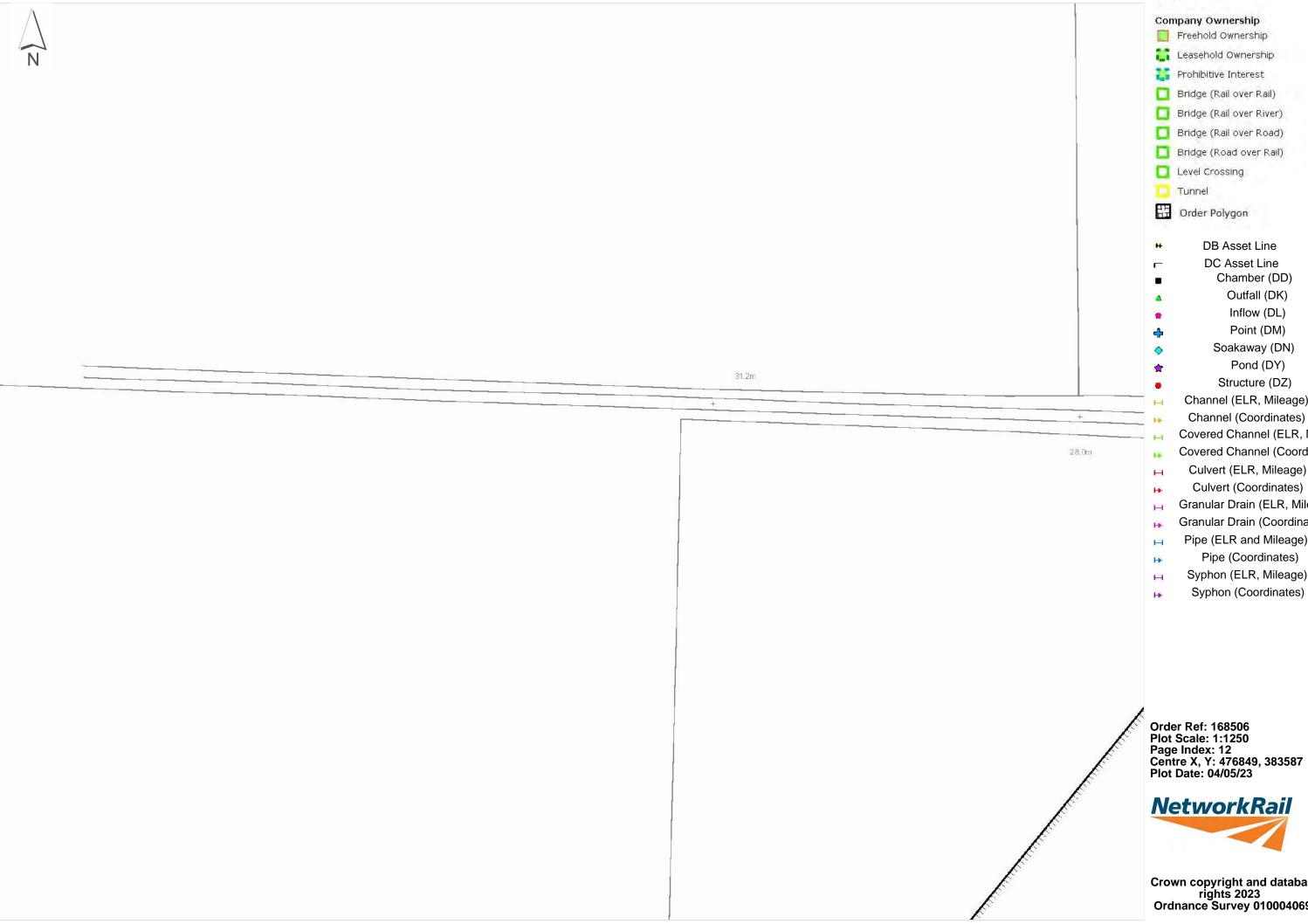
Network Rail - Drainage



Con	ipany Ownership
	Freehold Ownership
-	Leasehold Ownership
-	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
ñ	Level Crossing
	Tunnel
_	
ΠI	Order Polygon
**	DB Asset Line
	DC Asset Line
	Chamber (DD)
۵.	Outfall (DK)
	Inflow (DL)
4	Point (DM)
$\diamond$	Soakaway (DN)
	Pond (DY)
	Structure (DZ)
H	Channel (ELR, Mileage)
H.	Channel (Coordinates)
H	Covered Channel (ELR, Mileage)
	Covered Channel (Coordinates)
н	Culvert (ELR, Mileage)
H	Culvert (Coordinates)
н	Granular Drain (ELR, Mileage)
H	Granular Drain (Coordinates)
н	Pipe (ELR and Mileage)
H	Pipe (Coordinates)
	Syphon (ELR, Mileage)
н	Syphon (Coordinates)

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 11 Centre X, Y: 476849, 383269 Plot Date: 04/05/23





### Legend

Con	npany Ownership
	Freehold Ownership
8	Leasehold Ownership
	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
	Order Polygon
**	DB Asset Line
	DC Asset Line Chamber (DD)
	Outfall (DK)
	Inflow (DL)
-	Point (DM)
•	Soakaway (DN)
🖌 🙀	Pond (DY)
•	Structure (DZ)
	Channel (ELR, Mileage)
+ +	Channel (Coordinates)
H	Covered Channel (ELR, Mileage)
28.0m	Covered Channel (Coordinates)
H	Culvert (ELR, Mileage)
H	Culvert (Coordinates)
н	Granular Drain (ELR, Mileage) Granular Drain (Coordinates)
H.	Pipe (ELR and Mileage)
H	Pipe (Coordinates)
•	Syphon (ELR, Mileage)
н	Syphon (Coordinates)
H+	



## Legend

Con	npany Ownership
	Freehold Ownership
1	Leasehold Ownership
15	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
믑	Order Polygon
++	DB Asset Line
	DC Asset Line
	Chamber (DD)
<b>A</b>	Outfall (DK)
•	Inflow (DL)
4	Point (DM)
$\diamond$	Soakaway (DN)
	Pond (DY)
	Structure (DZ)
-	Channel (ELR, Mileage)
E.E.	Channel (Coordinates)
-	Covered Channel (ELR, Mileage)
	Covered Channel (Coordinates)
н	Culvert (ELR, Mileage)
H	Culvert (Coordinates)
н	Granular Drain (ELR, Mileage)
H	Granular Drain (Coordinates)
н	Pipe (ELR and Mileage)
H	Pipe (Coordinates)
н	Syphon (ELR, Mileage)
H	Syphon (Coordinates)
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Order Ref: 168506 Plot Scale: 1:1250 Page Index: 13 Centre X, Y: 477246, 381999 Plot Date: 04/05/23



Network Rail - Drainage

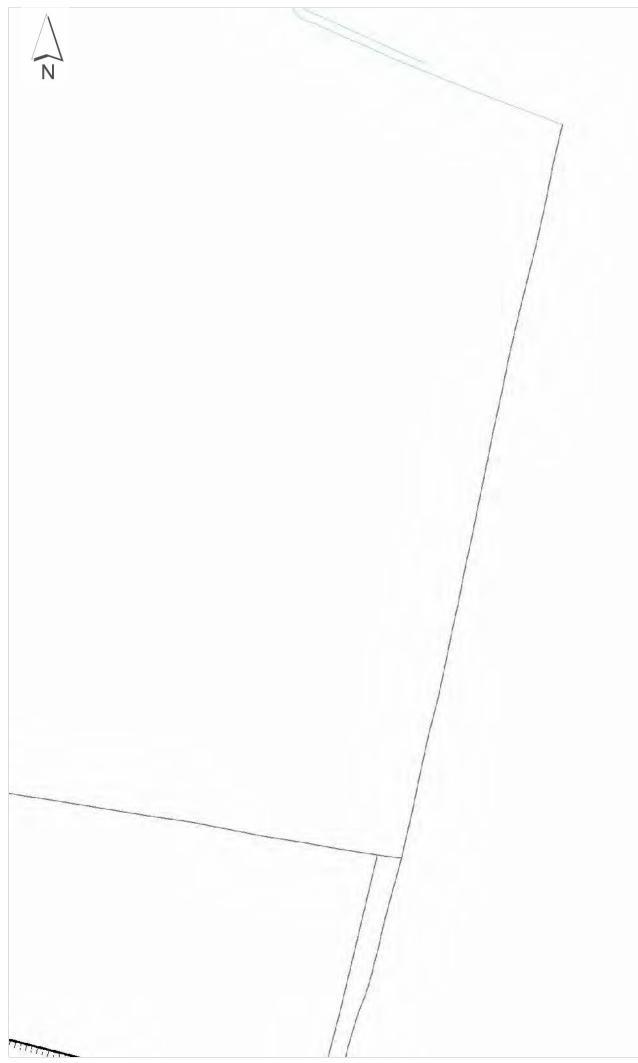


	Con	n <b>pany Ownership</b> Freehold Ownership
	-	Leasehold Ownership
	2	Prohibitive Interest
		Bridge (Rail over Rail)
		Bridge (Rail over River)
		Bridge (Rail over Road)
		Bridge (Road over Rail)
		Level Crossing
		Tunnel
	田	Order Polygon
		5,65,75,750
	++	DB Asset Line
		DC Asset Line
		Chamber (DD)
	<b>A</b>	Outfall (DK)
	•	Inflow (DL)
7.	4	Point (DM)
	$\diamond$	Soakaway (DN)
		Pond (DY)
		Structure (DZ)
	H	Channel (ELR, Mileage)
	H+	Channel (Coordinates)
	H	Covered Channel (ELR, Mileage)
	H+	Covered Channel (Coordinates)
	н	Culvert (ELR, Mileage)
	H	Culvert (Coordinates)
-	н	Granular Drain (ELR, Mileage)
1	H	Granular Drain (Coordinates)
	н	Pipe (ELR and Mileage)
	H	Pipe (Coordinates)
1	н	Syphon (ELR, Mileage)
11	H	Syphon (Coordinates)
-		

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 14 Centre X, Y: 477246, 382317 Plot Date: 04/05/23

006664483





Company Ownership			
	Freehold Ownership		
1	Leasehold Ownership		
8	Prohibitive Interest		
	Bridge (Rail over Rail)		
	Bridge (Rail over River)		
	Bridge (Rail over Road)		
	Bridge (Road over Rail)		
	Level Crossing		
	Tunnel		
田	Order Polygon		
++	DB Asset Line		
	DC Asset Line		
	Chamber (DD)		
<b>A</b>	Outfall (DK)		
•	Inflow (DL)		
÷	Point (DM)		
$\diamond$	Soakaway (DN)		
	Pond (DY)		
	Structure (DZ)		
H	Channel (ELR, Mileage)		
	Channel (Coordinates)		
-	Covered Channel (ELR, Mileage)		
H	Covered Channel (Coordinates)		
н	Culvert (ELR, Mileage)		
H	Culvert (Coordinates)		
н	Granular Drain (ELR, Mileage)		
H	Granular Drain (Coordinates)		
н	Pipe (ELR and Mileage)		
H	Pipe (Coordinates)		
н	Syphon (ELR, Mileage)		
H	Syphon (Coordinates)		

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 15 Centre X, Y: 477246, 382634 Plot Date: 04/05/23



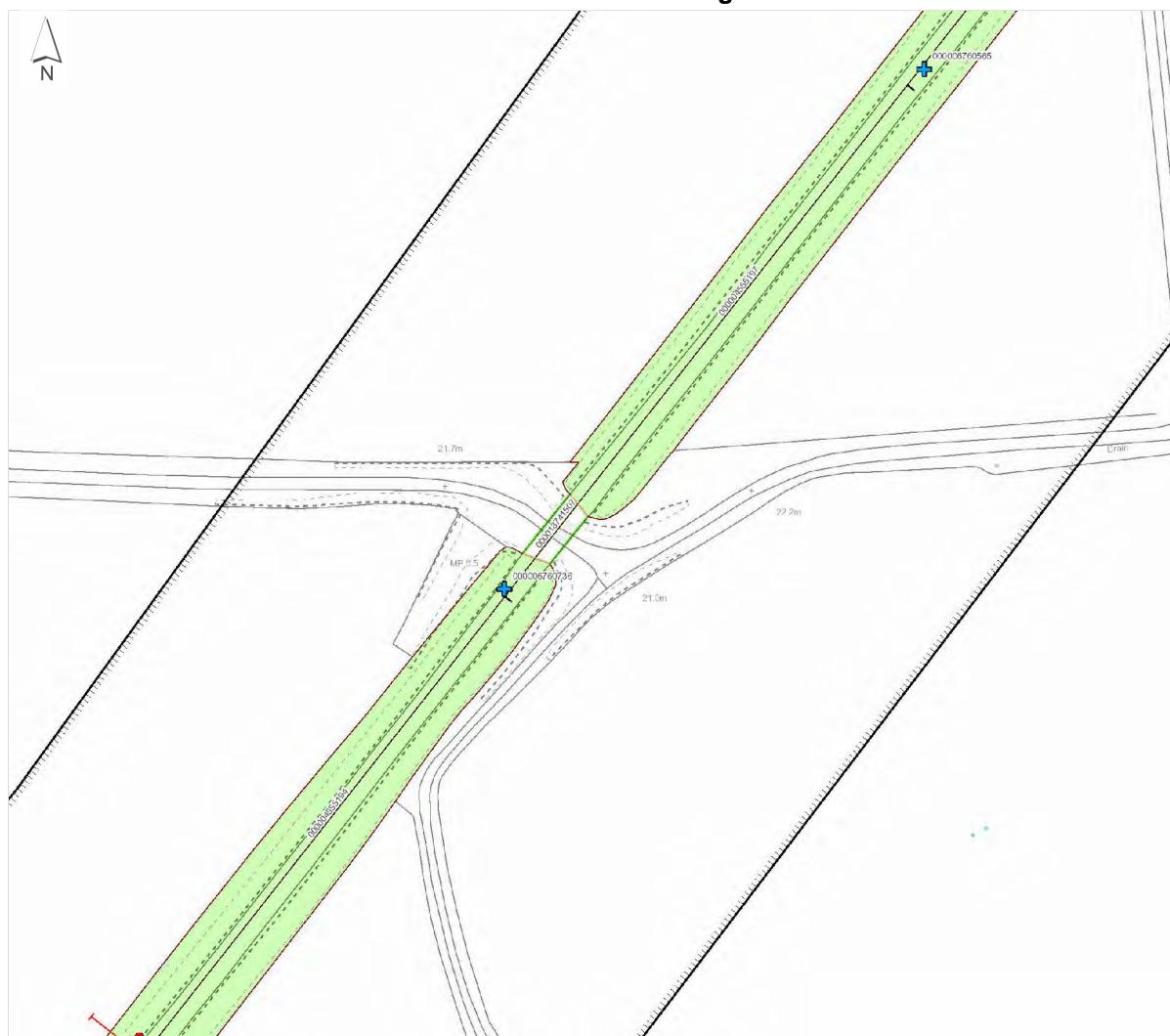


### Legend

Con	npany Ownership	
	Freehold Ownership	
	Leasehold Ownership	
×.	Prohibitive Interest	
	Bridge (Rail over Rail)	
	Bridge (Rail over River)	
	Bridge (Rail over Road)	
	Bridge (Road over Rail)	
	Level Crossing	
	Tunnel	
EB	Order Polygon	
-		
H	DB Asset Line	
	DC Asset Line	
	Chamber (DD)	
<b>A</b>	Outfall (DK)	
•	Inflow (DL)	
- 	Point (DM)	
0	Soakaway (DN)	
	Pond (DY)	
	Structure (DZ)	
H	Channel (ELR, Mileage)	
	Channel (Coordinates)	
H	Covered Channel (ELR, Mileage)	
	Covered Channel (Coordinates)	
н	Culvert (ELR, Mileage)	
H	Culvert (Coordinates)	
н	Granular Drain (ELR, Mileage)	
H	Granular Drain (Coordinates)	
н	Pipe (ELR and Mileage)	
H	Pipe (Coordinates)	
н	Syphon (ELR, Mileage)	
H	Syphon (Coordinates)	

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 16 Centre X, Y: 477246, 383269 Plot Date: 04/05/23





## Legend

19.8m

	Con	n <mark>pany Ownership</mark> Freehold Ownership
		Leasehold Ownership
	-	Prohibitive Interest
	ā	Bridge (Rail over Rail)
	Ē	Bridge (Rail over River)
	_	Bridge (Rail over Road)
~	Ē	Bridge (Road over Rail)
1	ñ	Level Crossing
	6	Tunnel
	EB	Order Polygon
		older Folygon
	++	DB Asset Line
		DC Asset Line
		Chamber (DD)
	<b>A</b>	Outfall (DK)
		Inflow (DL)
	4	Point (DM)
	$\diamond$	Soakaway (DN)
_		Pond (DY)
_		Structure (DZ)
	H	Channel (ELR, Mileage)
	H.	Channel (Coordinates)
	H	Covered Channel (ELR, Mileage)
		Covered Channel (Coordinates)
	н	Culvert (ELR, Mileage)
	H	Culvert (Coordinates)
	н	Granular Drain (ELR, Mileage)
	H	Granular Drain (Coordinates)
	н	Pipe (ELR and Mileage)
	H	Pipe (Coordinates)
	н	Syphon (ELR, Mileage)
	H	Syphon (Coordinates)

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 17 Centre X, Y: 477246, 383587 Plot Date: 04/05/23





## Legend

Company Ownership			
	Freehold Ownership		
-	Leasehold Ownership		
÷.	Prohibitive Interest		
	Bridge (Rail over Rail)		
	Bridge (Rail over River)		
	Bridge (Rail over Road)		
	Bridge (Road over Rail)		
	Level Crossing		
	Tunnel		
盟	Order Polygon		
++	DB Asset Line		
	DC Asset Line		
	Chamber (DD)		
4	Outfall (DK)		
•	Inflow (DL)		
<b>∲</b>	Point (DM)		
$\diamond$	Soakaway (DN)		
	Pond (DY)		
•	Structure (DZ)		
H	Channel (ELR, Mileage)		
	Channel (Coordinates)		
H	Covered Channel (ELR, Mileage)		
	Covered Channel (Coordinates)		
н	Culvert (ELR, Mileage)		
H	Culvert (Coordinates)		
н	Granular Drain (ELR, Mileage)		
H+	Granular Drain (Coordinates)		
н	Pipe (ELR and Mileage)		
H	Pipe (Coordinates)		
н	Syphon (ELR, Mileage)		
H	Syphon (Coordinates)		

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 18 Centre X, Y: 477246, 383904 Plot Date: 04/05/23

Level

21 tm



**Network Rail - Drainage** 



Con	npany Ownership
	Freehold Ownership
-	Leasehold Ownership
-	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
EH.	Order Polygon
++	DB Asset Line
	DC Asset Line
	Chamber (DD)
<b>A</b>	Outfall (DK)
-	Inflow (DL)
4	Point (DM)
$\diamond$	Soakaway (DN)
\$	Pond (DY)
٠	Structure (DZ) Channel (ELR, Mileage)
H	Channel (Coordinates)
••	Covered Channel (ELR, Mileage)
+	Covered Channel (Coordinates)
H	Culvert (ELR, Mileage)
	Culvert (Coordinates)
H	Granular Drain (ELR, Mileage)
H	Granular Drain (Coordinates)
н	Pipe (ELR and Mileage)
H	Pipe (Coordinates)
н	Syphon (ELR, Mileage)

Syphon (Coordinates)

-

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 19 Centre X, Y: 477642, 381999 Plot Date: 04/05/23

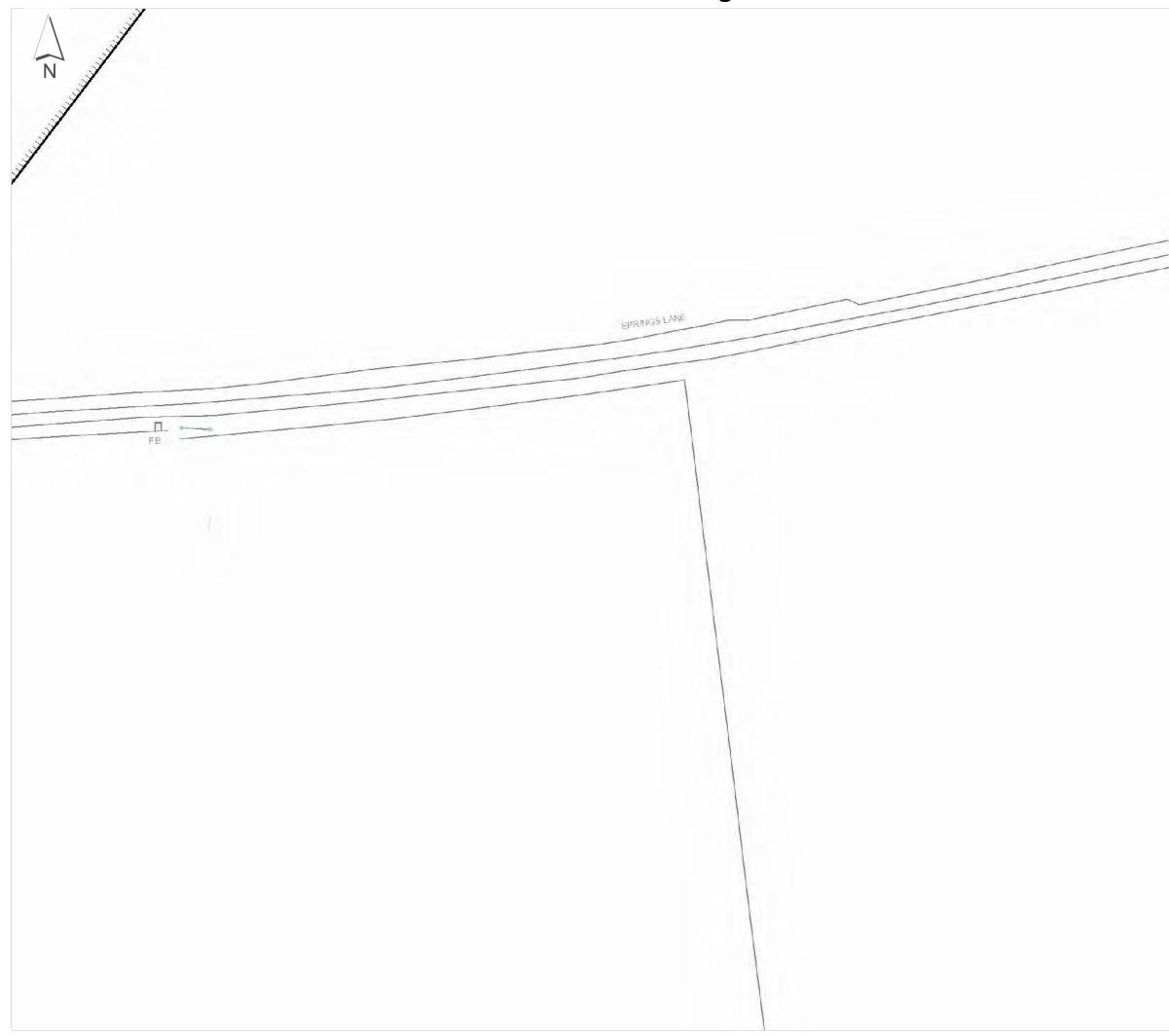




	Company Ownership
	Freehold Ownership
	🚦 Leasehold Ownership
	Prohibitive Interest
	🔲 Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Order Polygon
	HI Order Polygon
	H DB Asset Line
	DC Asset Line
	Chamber (DD)
	Outfall (DK)
	Inflow (DL)
	Point (DM)
	Soakaway (DN)
	Pond (DY)
	Structure (DZ)
	Channel (ELR, Mileage)
	Grannel (Coordinates)
	Covered Channel (ELR, Mileage)
	Covered Channel (Coordinates)
	Culvert (ELR, Mileage)
	Gulvert (Coordinates)
-	Granular Drain (ELR, Mileage)
	Granular Drain (Coordinates)
	Pipe (ELR and Mileage)
	Pipe (Coordinates)
	Syphon (ELR, Mileage)
	Syphon (Coordinates)

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 20 Centre X, Y: 477642, 382317 Plot Date: 04/05/23





#### Legend

	Leg	Jenu
	Con	npany Ownership
		Freehold Ownership
	-	Leasehold Ownership
	35	Prohibitive Interest
		Bridge (Rail over Rail)
		Bridge (Rail over River)
		Bridge (Rail over Road)
		Bridge (Road over Rail)
		Level Crossing
-		Tunnel
-	田	Order Polygon
	**	DB Asset Line
		DC Asset Line
		Chamber (DD)
	4	Outfall (DK)
		Inflow (DL)
	4	Point (DM)
	$\diamond$	Soakaway (DN)
		Pond (DY)
		Structure (DZ)
	H	Channel (ELR, Mileage)
	EE.	Channel (Coordinates)
	-	Covered Channel (ELR, Mileage)
		Covered Channel (Coordinates)
	н	Culvert (ELR, Mileage)
	H	Culvert (Coordinates)
	н	Granular Drain (ELR, Mileage)
	H	Granular Drain (Coordinates)
	н	Pipe (ELR and Mileage)

H Syphon (ELR, Mileage) Syphon (Coordinates)

-

Pipe (Coordinates)

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 21 Centre X, Y: 477642, 383587 Plot Date: 04/05/23





### Legend

Company Ownership			
	Freehold Ownership		
	Leasehold Ownership		
	Prohibitive Interest		
	Bridge (Rail over Rail)		
	Bridge (Rail over River)		
	Bridge (Rail over Road)		
	Bridge (Road over Rail)		
	Level Crossing		
	Tunnel		
盟	Order Polygon		
++	DB Asset Line		
	DC Asset Line		
	Chamber (DD)		
4	Outfall (DK)		
	Inflow (DL)		
÷	Point (DM)		
$\diamond$	Soakaway (DN)		
	Pond (DY)		
	Structure (DZ)		
H	Channel (ELR, Mileage)		
H	Channel (Coordinates)		
H	Covered Channel (ELR, Mileage)		
H	Covered Channel (Coordinates)		
н	Culvert (ELR, Mileage)		
H	Culvert (Coordinates)		
н	Granular Drain (ELR, Mileage)		
H	Granular Drain (Coordinates)		
н	Pipe (ELR and Mileage)		
H	Pipe (Coordinates)		
н	Syphon (ELR, Mileage)		
H	Syphon (Coordinates)		

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 22 Centre X, Y: 477642, 383904 Plot Date: 04/05/23



Network Rail - Drainage



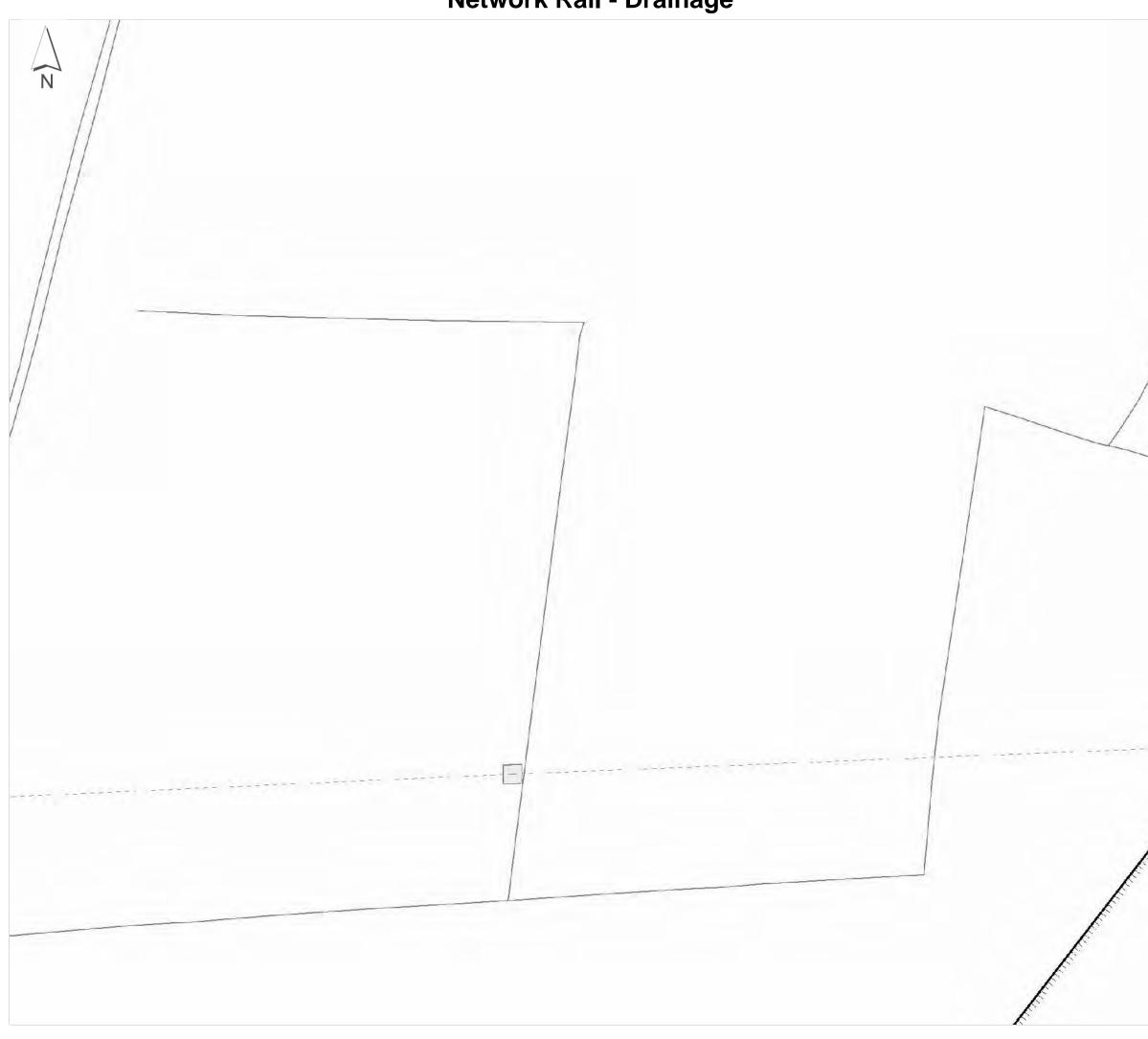
### Legend

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a sur an			
Con	npany Ownership Freehold Ownership		
	Leasehold Ownership		
-	Prohibitive Interest		
	Bridge (Rail over Rail)		
	Bridge (Rail over River)		
-	Bridge (Rail over Road)		
	Bridge (Road over Rail)		
	Level Crossing		
	Tunnel		
盟	Order Polygon		
**	DB Asset Line		
	DC Asset Line		
	Chamber (DD)		
<b>A</b>	Outfall (DK)		
-	Inflow (DL)		
÷	Point (DM)		
$\diamond$	Soakaway (DN)		
	Pond (DY)		
۲	Structure (DZ)		
н	Channel (ELR, Mileage)		
H+	Channel (Coordinates)		
H	Covered Channel (ELR, Mileage)		
	Covered Channel (Coordinates)		
н	Culvert (ELR, Mileage)		
H	Culvert (Coordinates)		
н	Granular Drain (ELR, Mileage)		
H+	Granular Drain (Coordinates)		
н	Pipe (ELR and Mileage)		
H+	Pipe (Coordinates)		
н	Syphon (ELR, Mileage)		
H	Syphon (Coordinates)		

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 23 Centre X, Y: 477642, 384222 Plot Date: 04/05/23





### Legend

12 Constant of 1		
Con	npany Ownership	
	Freehold Ownership	
1	Leasehold Ownership	
¥,	Prohibitive Interest	
	Bridge (Rail over Rail)	
	Bridge (Rail over River)	
	Bridge (Rail over Road)	
	Bridge (Road over Rail)	
	Level Crossing	
	Tunnel	
盟	Order Polygon	
++	DB Asset Line	
	DC Asset Line	
	Chamber (DD)	
4	Outfall (DK)	
•	Inflow (DL)	
÷	Point (DM)	
$\diamond$	Soakaway (DN)	
	Pond (DY)	
	Structure (DZ)	
H	Channel (ELR, Mileage)	
	Channel (Coordinates)	
H	Covered Channel (ELR, Mileage)	
••	Covered Channel (Coordinates)	
н	Culvert (ELR, Mileage)	
H	Culvert (Coordinates)	
н	Granular Drain (ELR, Mileage)	
H+	Granular Drain (Coordinates)	
н	Pipe (ELR and Mileage)	
H	Pipe (Coordinates)	
н	Syphon (ELR, Mileage)	
H	Syphon (Coordinates)	

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 24 Centre X, Y: 477642, 384539 Plot Date: 04/05/23



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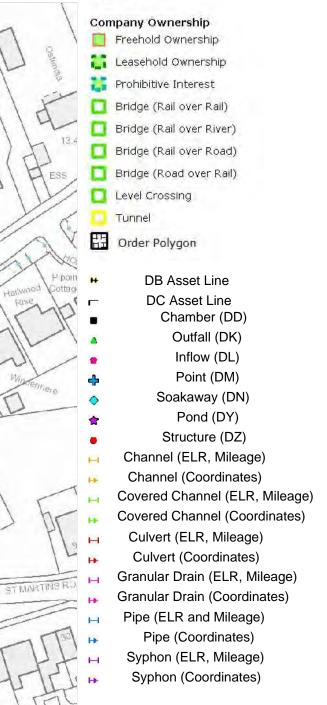
**Network Rail - Drainage** 





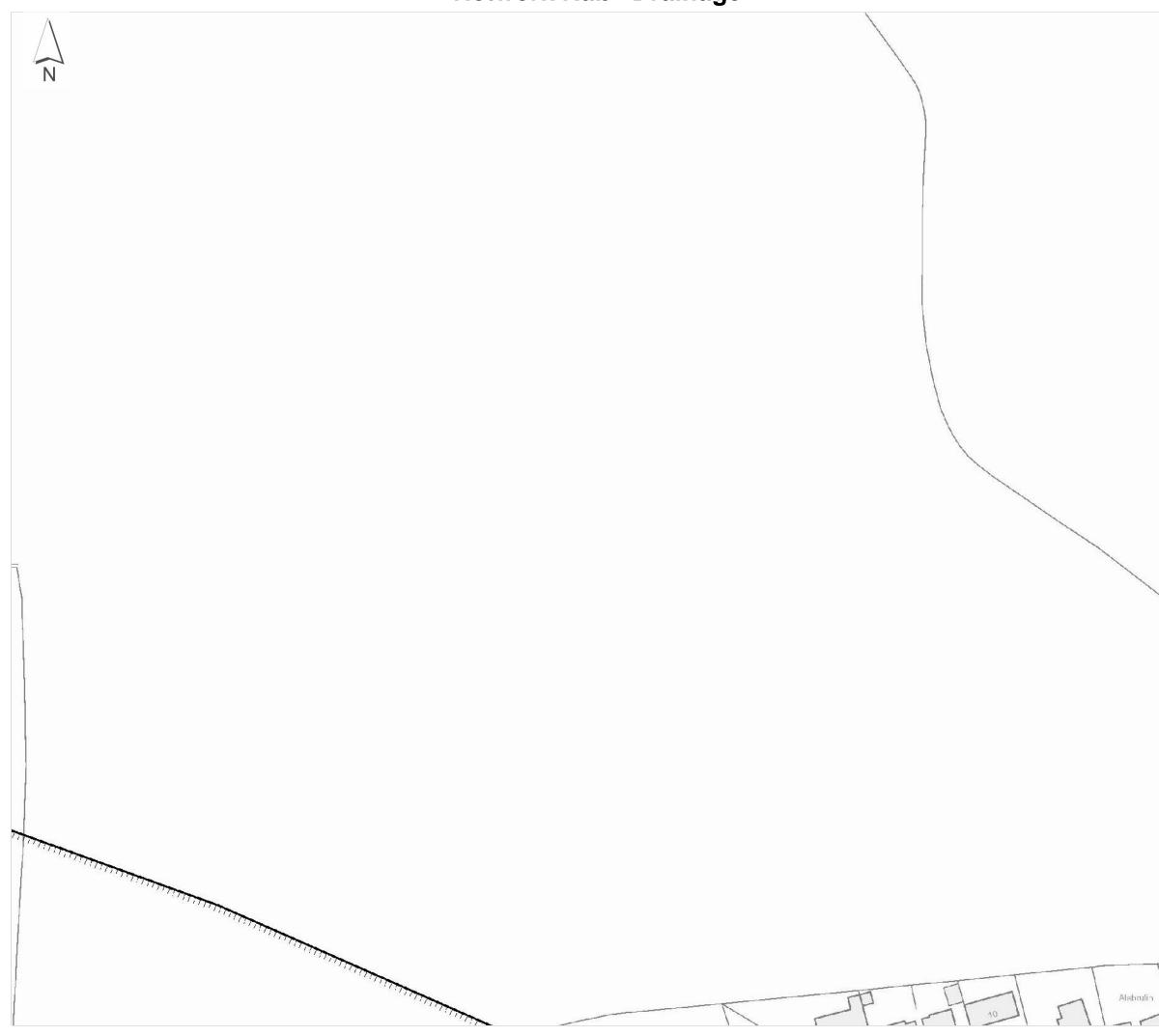
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Order Ref: 168506 Plot Scale: 1:1250 Page Index: 25 Centre X, Y: 478039, 381999 Plot Date: 04/05/23





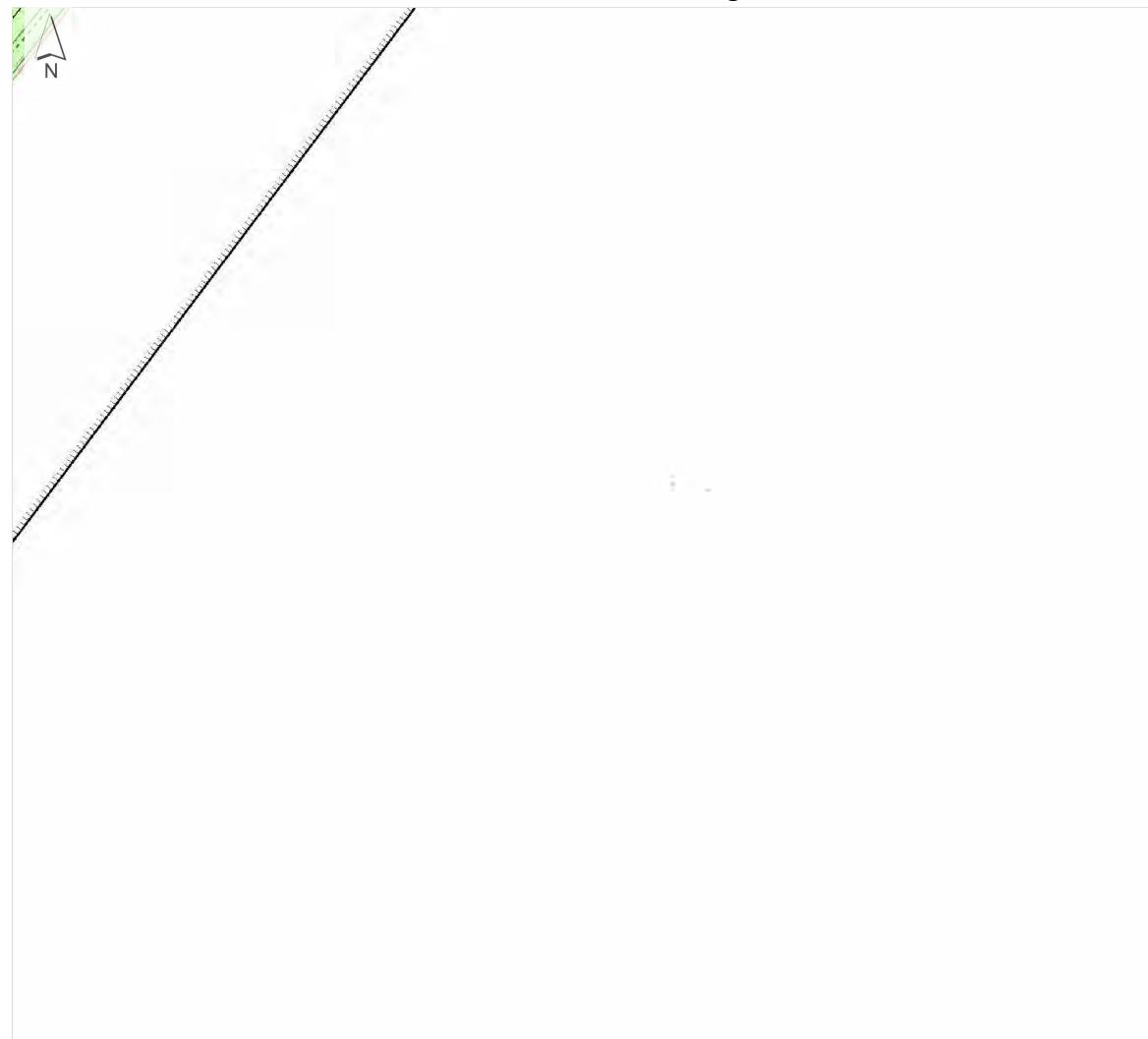
### Legend

Company Ownership		
	Freehold Ownership	
-	Leasehold Ownership	
35	Prohibitive Interest	
	Bridge (Rail over Rail)	
	Bridge (Rail over River)	
	Bridge (Rail over Road)	
	Bridge (Road over Rail)	
	Level Crossing	
	Tunnel	
田	Order Polygon	
++	DB Asset Line	
•	DC Asset Line	
	Chamber (DD)	
4	Outfall (DK)	
•	Inflow (DL)	
÷	Point (DM)	
$\diamond$	Soakaway (DN)	
	Pond (DY)	
	Structure (DZ)	
H	Channel (ELR, Mileage)	
H+	Channel (Coordinates)	
H	Covered Channel (ELR, Mileage)	
	Covered Channel (Coordinates)	
н	Culvert (ELR, Mileage)	
H	Culvert (Coordinates)	
н	Granular Drain (ELR, Mileage)	
H	Granular Drain (Coordinates)	
н	Pipe (ELR and Mileage)	
H	Pipe (Coordinates)	
н	Syphon (ELR, Mileage)	
H	Syphon (Coordinates)	

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 26 Centre X, Y: 478039, 382317 Plot Date: 04/05/23



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### Legend

Company Ownership		
	Freehold Ownership	
1	Leasehold Ownership	
8	Prohibitive Interest	
	Bridge (Rail over Rail)	
	Bridge (Rail over River)	
	Bridge (Rail over Road)	
	Bridge (Road over Rail)	
	Level Crossing	
	Tunnel	
盟	Order Polygon	
H	DB Asset Line	
	DC Asset Line	
	Chamber (DD)	
4	Outfall (DK)	
-	Inflow (DL)	
÷	Point (DM)	
$\diamond$	Soakaway (DN)	
	Pond (DY)	
	Structure (DZ)	
H	Channel (ELR, Mileage)	
	Channel (Coordinates)	
H	Covered Channel (ELR, Mileage)	
••	Covered Channel (Coordinates)	
н	Culvert (ELR, Mileage)	
H	Culvert (Coordinates)	
н	Granular Drain (ELR, Mileage)	
H	Granular Drain (Coordinates)	
н	Pipe (ELR and Mileage)	
H	Pipe (Coordinates)	
н	Syphon (ELR, Mileage)	
H	Syphon (Coordinates)	

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 27 Centre X, Y: 478039, 384222 Plot Date: 04/05/23





### Legend

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Company Ownership		
	Freehold Ownership	
1	Leasehold Ownership	
35	Prohibitive Interest	
	Bridge (Rail over Rail)	
	Bridge (Rail over River)	
	Bridge (Rail over Road)	
	Bridge (Road over Rail)	
	Level Crossing	
	Tunnel	
四	Order Polygon	
++	DB Asset Line	
•	DC Asset Line	
	Chamber (DD)	
4	Outfall (DK)	
•	Inflow (DL)	
4	Point (DM)	
$\diamond$	Soakaway (DN)	
	Pond (DY)	
	Structure (DZ)	
H	Channel (ELR, Mileage)	
	Channel (Coordinates)	
-	Covered Channel (ELR, Mileage)	
••	Covered Channel (Coordinates)	
H	Culvert (ELR, Mileage)	
H	Culvert (Coordinates)	
н	Granular Drain (ELR, Mileage)	
H	Granular Drain (Coordinates)	
н	Pipe (ELR and Mileage)	
H	Pipe (Coordinates)	
н	Syphon (ELR, Mileage)	
H	Syphon (Coordinates)	

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 28 Centre X, Y: 478039, 384539 Plot Date: 04/05/23





### Legend

Supplier St.

000006756408

Company Ownership			
	Freehold Ownership		
1	Leasehold Ownership		
**	Prohibitive Interest		
	Bridge (Rail over Rail)		
	Bridge (Rail over River)		
	Bridge (Rail over Road)		
	Bridge (Road over Rail)		
	Level Crossing		
	Tunnel		
盟	Order Polygon		
++	DB Asset Line		
	DC Asset Line		
	Chamber (DD)		
4	Outfall (DK)		
•	Inflow (DL)		
÷	Point (DM)		
$\diamond$	Soakaway (DN)		
	Pond (DY)		
	Structure (DZ)		
H	Channel (ELR, Mileage)		
H.	Channel (Coordinates)		
H	Covered Channel (ELR, Mileage)		
	Covered Channel (Coordinates)		
н	Culvert (ELR, Mileage)		
H	Culvert (Coordinates)		
н	Granular Drain (ELR, Mileage)		
H	Granular Drain (Coordinates)		
н	Pipe (ELR and Mileage)		
H	Pipe (Coordinates)		
н	Syphon (ELR, Mileage)		
H	Syphon (Coordinates)		

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 29 Centre X, Y: 478039, 384857 Plot Date: 04/05/23





### Legend

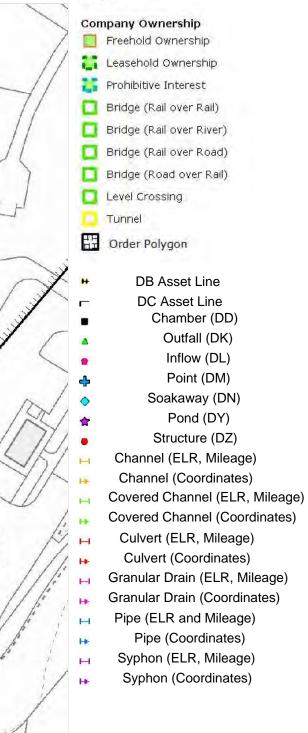
Company Ownership Freehold Ownership			
-	Leasehold Ownership		
-			
100	Prohibitive Interest		
	Bridge (Rail over Rail)		
-	Bridge (Rail over River)		
	Bridge (Rail over Road)		
	Bridge (Road over Rail)		
	Level Crossing		
	Tunnel		
멾	Order Polygon		
+	DB Asset Line		
	DC Asset Line		
	Chamber (DD)		
4	Outfall (DK)		
	Inflow (DL)		
4	Point (DM)		
$\diamond$	Soakaway (DN)		
	Pond (DY)		
	Structure (DZ)		
H	Channel (ELR, Mileage)		
H	Channel (Coordinates)		
H	Covered Channel (ELR, Mileage)		
H	Covered Channel (Coordinates)		
н	Culvert (ELR, Mileage)		
H	Culvert (Coordinates)		
Н	Granular Drain (ELR, Mileage)		
H	Granular Drain (Coordinates)		
Н	Pipe (ELR and Mileage)		
H	Pipe (Coordinates)		
н	Syphon (ELR, Mileage)		
H	Syphon (Coordinates)		

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 30 Centre X, Y: 478436, 384857 Plot Date: 04/05/23





### Legend

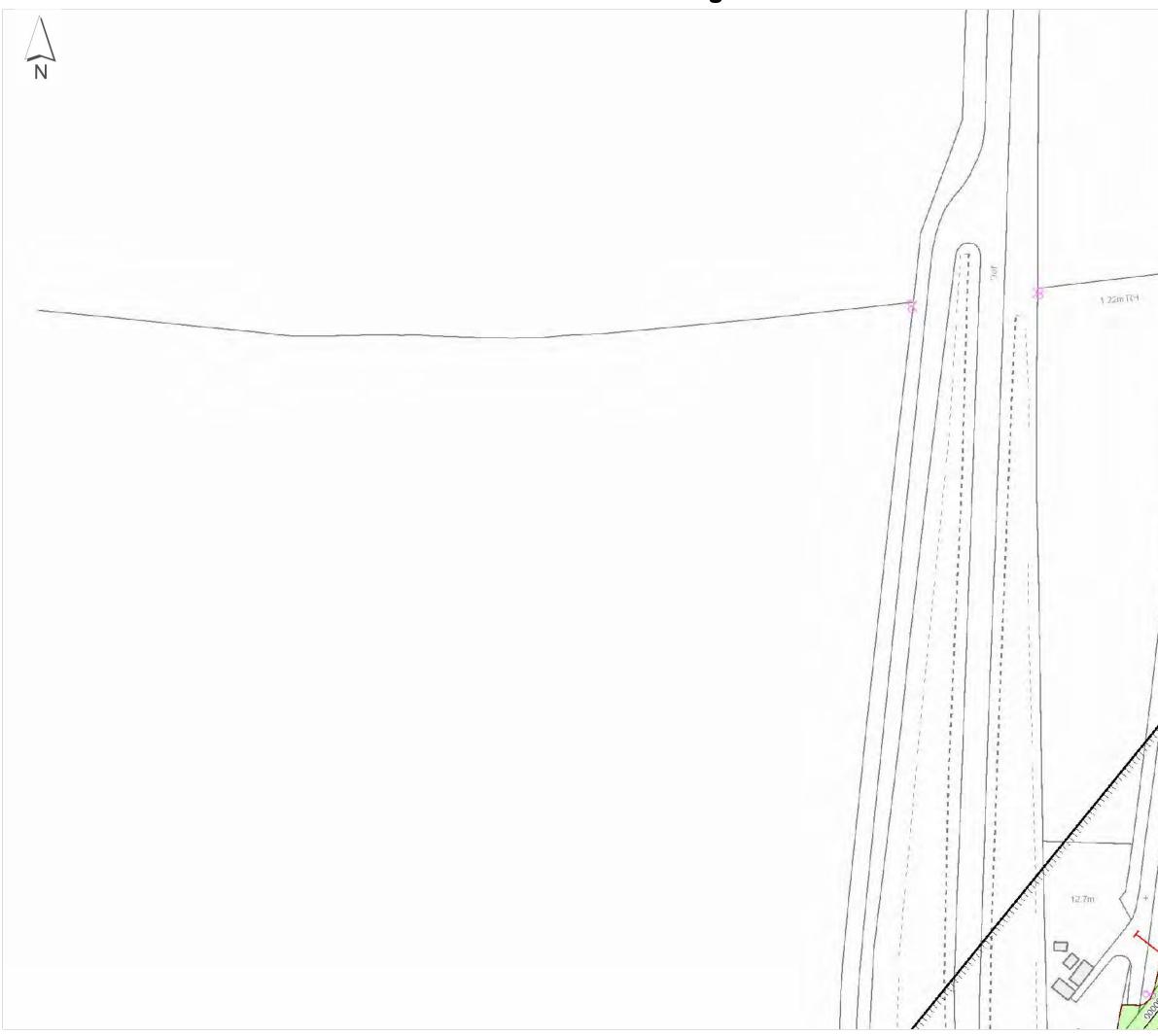


Order Ref: 168506 Plot Scale: 1:1250 Page Index: 31 Centre X, Y: 478436, 385174 Plot Date: 04/05/23



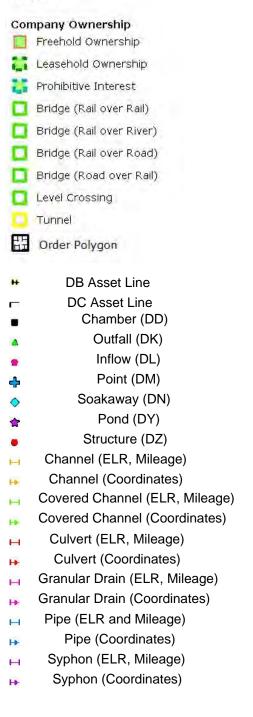
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SANDI ILL LANE



#### Legend

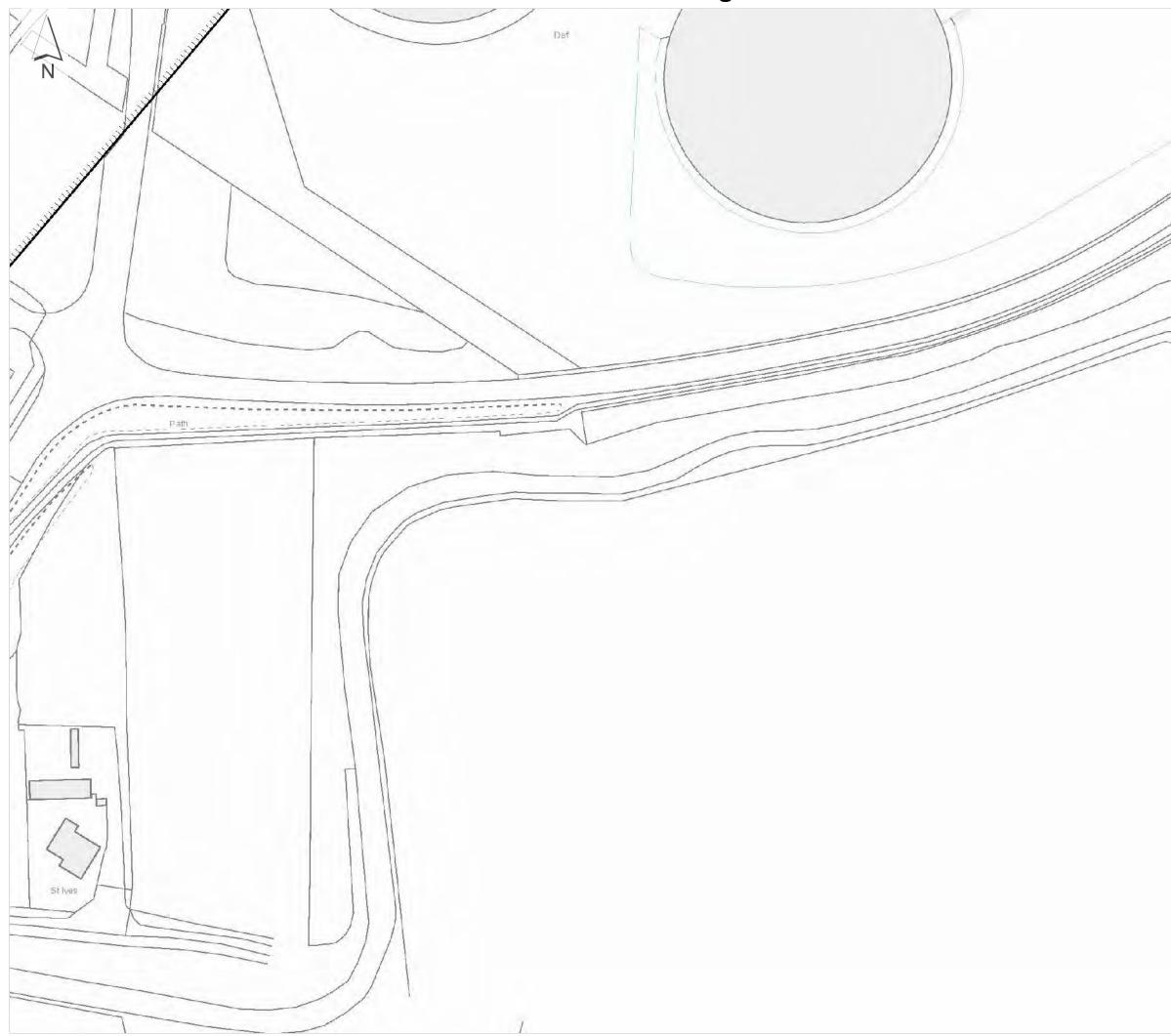
12.8m



Order Ref: 168506 Plot Scale: 1:1250 Page Index: 32 Centre X, Y: 478436, 385492 Plot Date: 04/05/23



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### Legend

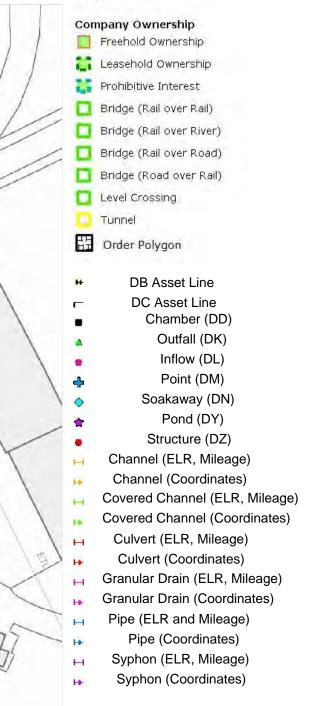
Con	n <b>pany Ownership</b> Freehold Ownership
	Leasehold Ownership
	Prohibitive Interest
	Bridge (Rail over Rail)
	Bridge (Rail over River)
	Bridge (Rail over Road)
	Bridge (Road over Rail)
	Level Crossing
	Tunnel
田	Order Polygon
++	DB Asset Line
	DC Asset Line
	Chamber (DD)
4	Outfall (DK)
•	Inflow (DL)
÷	Point (DM)
$\diamond$	Soakaway (DN)
<b>a</b>	Pond (DY)
•	Structure (DZ)
н	Channel (ELR, Mileage)
H+	Channel (Coordinates)
н	Covered Channel (ELR, Mileage)
••	Covered Channel (Coordinates)
н	Culvert (ELR, Mileage)
H	Culvert (Coordinates)
н	Granular Drain (ELR, Mileage)
H	Granular Drain (Coordinates)
н	Pipe (ELR and Mileage)
H	Pipe (Coordinates)
н	Syphon (ELR, Mileage)
H	Syphon (Coordinates)

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 33 Centre X, Y: 478833, 385174 Plot Date: 04/05/23





#### Legend



Order Ref: 168506 Plot Scale: 1:1250 Page Index: 34 Centre X, Y: 478833, 385492 Plot Date: 04/05/23





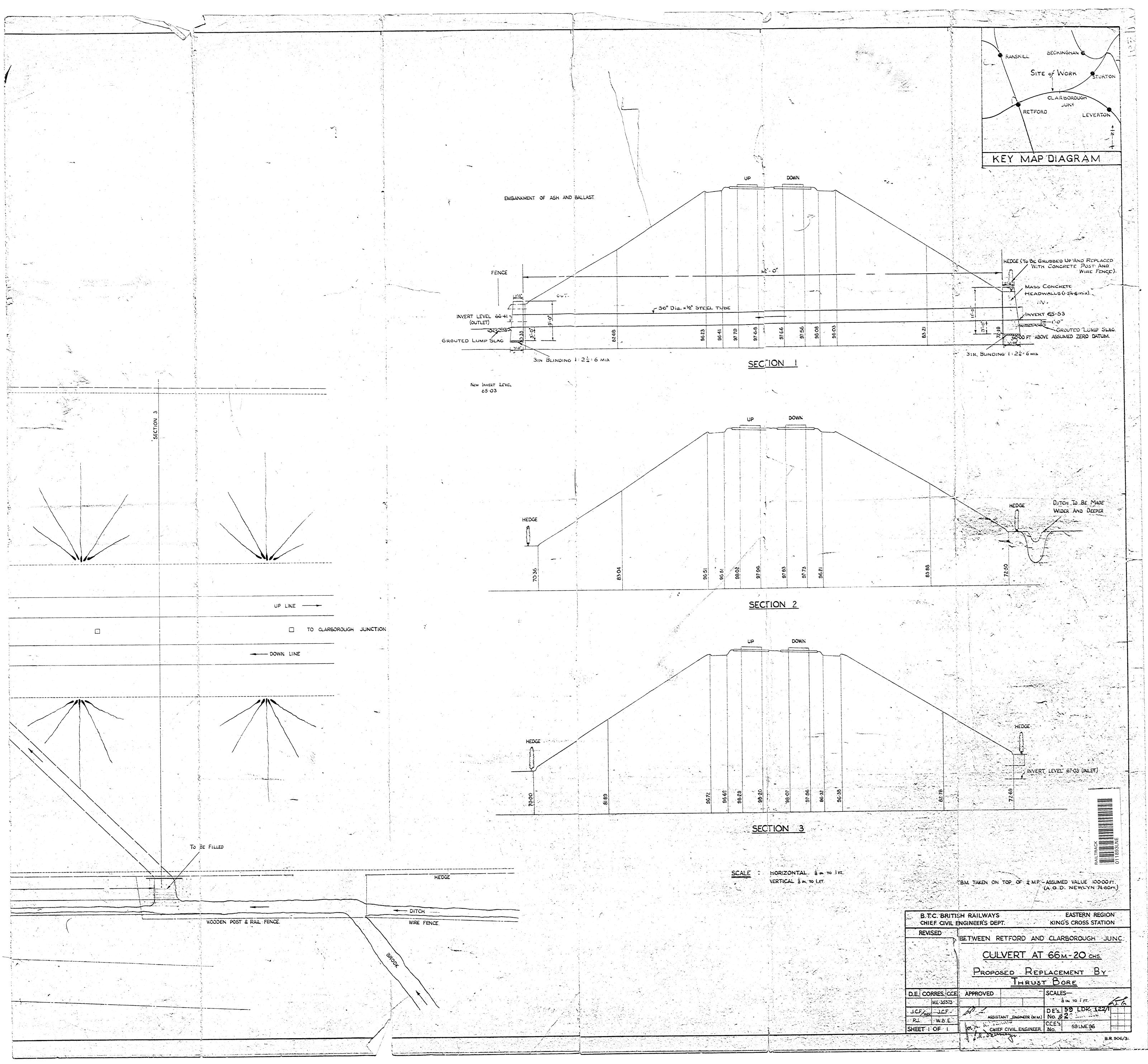


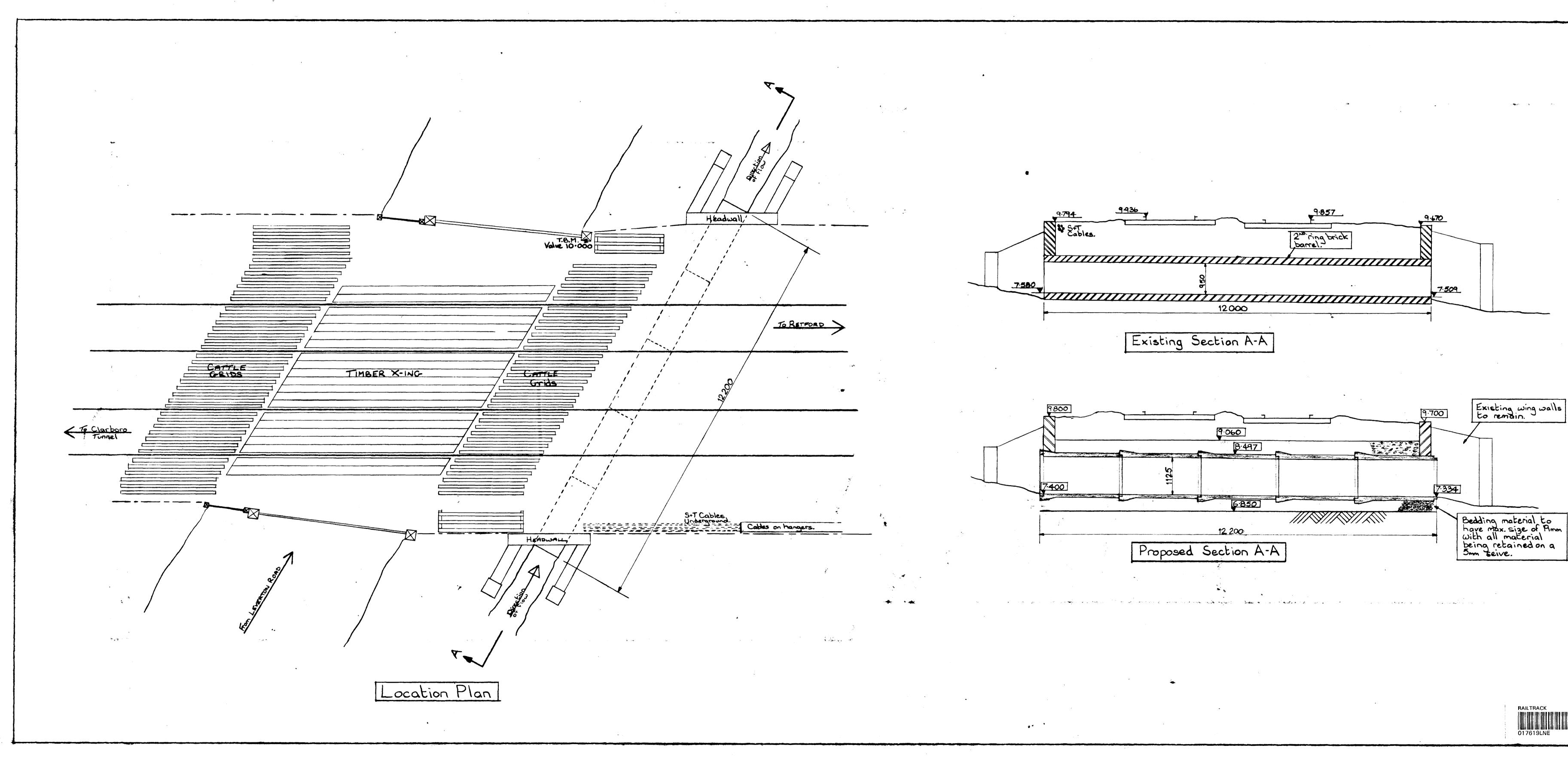
### Legend

Company Ownership		
	Freehold Ownership	
1	Leasehold Ownership	
5	Prohibitive Interest	
	Bridge (Rail over Rail)	
	Bridge (Rail over River)	
	Bridge (Rail over Road)	
	Bridge (Road over Rail)	
	Level Crossing	
	Tunnel	
盟	Order Polygon	
++	DB Asset Line	
	DC Asset Line	
	Chamber (DD)	
4	Outfall (DK)	
2	Inflow (DL)	
4	Point (DM)	
$\diamond$	Soakaway (DN)	
	Pond (DY)	
	Structure (DZ)	
H	Channel (ELR, Mileage)	
H	Channel (Coordinates)	
H	Covered Channel (ELR, Mileage)	
	Covered Channel (Coordinates)	
н	Culvert (ELR, Mileage)	
H	Culvert (Coordinates)	
н	Granular Drain (ELR, Mileage)	
H	Granular Drain (Coordinates)	
н	Pipe (ELR and Mileage)	
H	Pipe (Coordinates)	
н	Syphon (ELR, Mileage)	
H+	Syphon (Coordinates)	

Order Ref: 168506 Plot Scale: 1:1250 Page Index: 35 Centre X, Y: 478833, 385809 Plot Date: 04/05/23







NOTES 1) Existing culvert to be renewed using 5 1125 diam. \* 2440 Lg. spun-concrete pipes from A.R.C. Ltd. 2) Pipe sections to be sealed with rolling ring gaskets. 3) Cover material to be well compacted hardcore. 4) Head walls to be rebuilt in buck post reconstruction. Temporary retention of fill material is necessary. Letter Date Description of revisions By Telephone 0742-720002 RAT-HOLE CULVERT AT 68m 19ch, RETFORD To Gainsborough Line. RAILTRACK 017619LNE 1:50 Scale File Numbers Drawing Number 89:50:13

