

LAND EAST OF LUNCE'S HILL, HAYWARDS HEATH

Utility Assessment

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Land East of Lunce's Hill,
Haywards Heath - Utility
Assessment
UAR-P05
13 February 2025

UTILITY ASSESSMENT

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Rajendra Patel



13 February 2025

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UTILITY ASSESSMENT

ISSUE	DATE	REMARKS
UAR-P01	December 2024	First Issue – Draft.
UAR-P02	December 2024	Planning comments incorporated.
UAR-P03	January 2025	Clause 1.1.2 updated. Site layout updated.
UAR-P04	January 2025	UKPN for all electric site added.
UAR-P05	February 2025	Site layout updated.

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EXECUTIVE SUMMARY

This report contains the results of the investigation and appraisal of the Statutory Utility Authorities for gas, water, electricity and telecommunications for land east of Lunce's Hill, Haywards Heath.

This report incorporates utility services' capacity check feedback from the local infrastructure providers based on the current scheme. The services impact assessment information is based on utility enquiries feedback received September 2024 – January 2025.

To confirm adequate capacities or requirements for infrastructure upgrades to the existing utilities to serve the new development, applications have been made to each of the utility companies. Returned correspondence is provided Appendix 3. (Note - The inclusion of energy efficient and renewable technologies could help to reduce the demand on the electricity, water services and resulting infrastructure costs).

The following utility companies own services located immediately adjacent to, or on, the proposed development:-

- UK Power Networks.
- British Telecommunications - Openreach.
- Southern Gas Networks.
- South East Water (mains water).
- Southern Water (sewers).

Not all existing installed services information may be indicated on the drawings provided by the utility companies. Further on-site investigations and surveys could show up additional services not shown on the utility drawings. These investigations would also provide a more accurate location of services shown on the drawings provided by the utility companies.

Affected services may need to be diverted or removed, if redundant. Services diverted away from the site will require new wayleaves to enable the utility companies to relocate their service. There may be costs involved to address any way-leave considerations.

On review of information received we should highlight that:-

- UK Power Networks (UKPN) has no services crossing the main site. There are services located at the site entrance and UKPN has provided a quotation of £38,084.14 (exc VAT) for diversion works at the site entrance.

- Two applications have been made to UKPN for servicing the site. One quotation assumes a dual fuel site and the other assumes an all electric site with electric vehicle charging and air source heat pumps (ASHP) for domestic heating.
- UKPN has provided a quotation for £ 391,257.49 (exc VAT) for electrical services based on a dual fuel site.
- UKPN has also provided a quotation for £ 438,838.56 (exc VAT) for electrical services based on an all electric site confirming current capacity in the network for an all electric site.
- A search on Openreach's website indicates that the local exchange has been upgraded to support fibre broadband and full fibre broadband is available locally. There are underground services at the proposed site entrance. The depth of services is unknown. There is a vehicle crossing over the buried service north of the site. Trail holes to establish the exact depth are required.
- South East Water's (SEW) mains records indicate the presence of 15" cast iron (CI) mains crossing the site. These mains will remain in situ.
- SEW has confirmed that the site can be supplied from the local infrastructure without any requirement for reinforcement works.
- SEW has provided connection costs of £ 59, 130.00 (exc VAT). The cost for the installation of on-site mains has been given as £ 1350.00 per metre.
- Southern Gas Networks (SGN) has a medium pressure main in the carriageway of Lunce's Hill. To supply low pressure mains to the site a gas governor will be required. The governor would be located at the site entrance and there is sufficient space available within the indicative scheme for this to be provided.
- SGN has provided a budget price of £146,000.00 (inc VAT charged at 20% for non-domestic and 0% for domestic) to supply the site.

1 INTRODUCTION

1.1 General

- 1.1.1 RPS Consulting Services Ltd has been commissioned to assess and advise on utility services for the proposed residential development on land off Lunce's Hill, Haywards Heath.
- 1.1.2 An outline planning application is to be made for the erection of up to 130 dwellings (Use Class C3), together with the change of use of an existing barn for flexible commercial and/or community use, associated outdoor space and landscaping, drainage infrastructure, hard and soft landscaping, parking, access, and associated works.



Fig 1.1: Proposed development

- 1.1.3 This report advises on the existing services. The information contained within this report has been provided by the utility suppliers. These utility details are to be read in conjunction with this report.
- 1.1.4 Utility applications have been made for a development of 135 dwellings [Note - scheme has been reduced to up to 130 dwellings].
- 1.1.5 Each utility has been approached to ascertain requirements for new connections, diversions, and disconnections.

The anticipated loading on this development is as follows:-

- Electricity (dual fuel site) – 2.0 kVA per dwelling allowing for estate diversity and street lighting.
- Gas - 30 kW per dwelling, with an annual consumption of 30,000 kWhr per dwelling.
- Electricity (all electric site): 5.9 kVA per dwelling (allowance for ASHP and EVCP) allowing for estate diversity and street lighting.
- Telecommunications: Up to 130 connections.

- Water: supply for up to 130 domestic dwellings (allowing diversity), one commercial / community property and site fire hydrants as required.
- Foul Drainage: site application by others. (Refer to Flood Risk Assessment / Drainage Strategy Report).

Note: The estimated loads above have been calculated from published baseline assessments for dwellings at this stage and do not constitute detail design load calculations. No allowance for any future development potential has been included. It would be the responsibility of the developer to ensure accurate utility load calculations are commissioned and produced for the scheme at the appropriate stage of design. RPS will not be held responsible for design calculations based on this stage 'A' assessment.

1.1.6 Sources of Information

For the purposes of this report, we have relied upon information from the following sources.

Statutory Contacts

UK Power Networks 237 Southwark Bridge Road, London SE1 6NP	Openreach (British Telecommunications) PP 2.0A Brighton East TEC/MTW Freshfield Road Brighton East Sussex BN2 0BJ
Southern Gas Networks St Lawrence House Station Approach Horley Surrey RH6 9HJ	South East Water Developer Services Team Rocfort Road Snodland Kent ME6 5AH

- 1.1.7 Other service suppliers have been contacted. Information / confirmation from these suppliers that no services are located within the area identified has been received. These service suppliers are listed in Appendix 2. Correspondence / responses are included in Appendix 8.

2 ELECTRICITY

2.1 Distribution Network Operator (DNO)

- 2.1.1 The DNO in the area is UK Power Networks. (UKPN).
- 2.1.2 Information obtained from UKPN is reproduced in Appendix 4.

2.2 Existing Infrastructure

- 2.2.1 Drawings of existing services provided by UKPN indicate that there :-
 - are low voltage (LV) overhead services located at the proposed entrance to the site which will require diverting.
 - is an LV underground service located at the proposed site entrance which is deemed deep enough to be unaffected by the entrance works.
 - are high voltage (HV) cables located in the carriageway along Lunce's Hill.
- 2.2.2 There are substations located on the opposite side of the road to the development site. One substation is owned and maintained by UKPN. One substation is owned and maintained by an IDNO.

2.3 Proposed Works

- 2.3.1 UKPN has overhead LV cables running across the proposed site entrance. UKPN propose to remove one power poles and the overhead lines which cross the site entrance. A quotation of £38,084.14 (exc VAT) has been provided for these works.
- 2.3.2 Two applications have been made to UKPN for electrical supplies to the site.
 - 645 kVA (575kVA domestic and 69 kVA commercial) for a dual fuel site.
 - 820 kVA (750 kVA domestic and 69 kVA commercial) for an all-electric site.
- 2.3.3 For each solution, UKPN will need to provide a new HV/LV substation for the site.
- 2.3.4 A quotation for £ 391,257.49 (exc VAT) has been provided by UKPN for electrical services based on a dual fuel site.
- 2.3.5 UKPN has also provided a quotation for £ 438,838.56 (exc VAT) for electrical services based on an all electric site confirming current capacity in the network for an all electric site. The additional capacity required for an all-electric site utilises assets installed for a recently constructed development and therefore the quotation contains a "second comer" contribution for the previous applicant.
- 2.3.6 A full application for new connections should be made to UKPN when the full extent of the site is known. This will enable a network assessment to be carried out and a design to be drawn up. UKPN will assess the existing network infrastructure, decide upon the most suitable point for the new electrical connections and advise upon any network alterations substation requirements needed to support the new development.
- 2.3.7 Easement requirements for UKPN are detailed in Appendix 1.

3 COMMUNICATIONS

3.1 Communication Providers

- 3.1.1 British Telecommunications - Openreach (BT) provides domestic communications services in the area.
- 3.1.2 Infrastructure networks belonging to BT are shown on map records in Appendix 5.

3.2 Existing Infrastructure

- 3.2.1 BT drawings indicate that there are no services on the site.
- 3.2.2 Underground duct(s) are detailed in the grass verge on the site side of the road running the route of the proposed site entrance. There is already a site entrance running over this duct so it is anticipated to be of sufficient carriageway depth. Trial holes will establish any requirement for diversion works.

3.3 Proposed Works

- 3.3.1 Applications should be made to BT when planning consent has been granted. Designs will not be progressed without a planning consent reference and registration of the development on to Openreach's "New Sites Portal".
- 3.3.2 BT has the capability of providing telephone and broadband connections through their system. A search on BT's website indicates that the local exchange has been upgraded to support fibre broadband and that ultrafast full fibre broadband is available.
- 3.3.3 An online enquiry into the speed of local BT broadband has produced the following results for a nearby property (Cleavewater Farm) :-

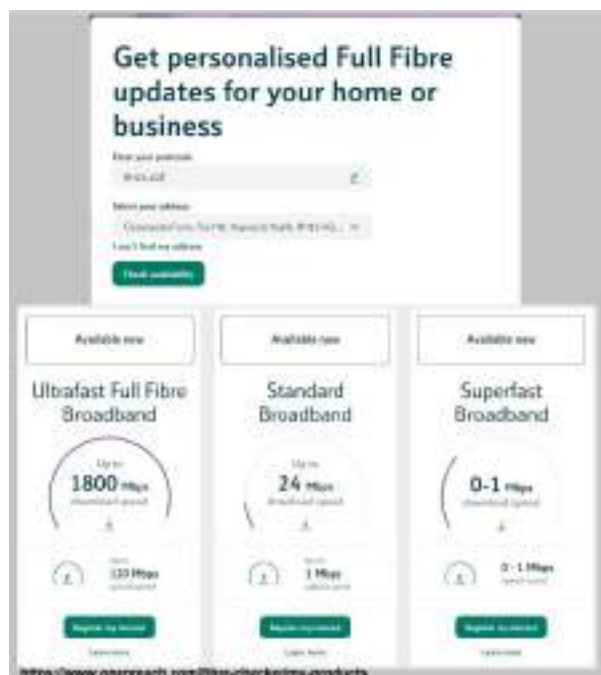


Figure 3.3 - Local fibre broadband speed

4 WATER SERVICES

4.1 Network Supplier

- 4.1.1 The network supplier in the area is South East Water (SEW).
- 4.1.2 Information received from the utility company is shown on the map records in Appendix 6.

4.2 Existing Infrastructure

- 4.2.1 The record drawing provided by SEW indicates the presence of two 15" cast iron mains crossing the site. These mains will remain in situ and the estate roads designed to suit.
- 4.2.2 The asset plan indicates that there is a 150mm ductile iron (DI) main in the carriageway of Lunce's Hill.

4.3 Proposed New Connection

- 4.3.1 Water services to the site should be designed in line with domestic supplies provided at 1 bar (9 l/min).
- 4.3.2 SEW has confirmed that no off-site reinforcement works are required to support the development.
- 4.3.3 SEW has proposed a mains connection to a 200mm DI main on Fox Hill.
- 4.3.4 A budget cost of £ 135.00 per metre has been cited for onsite mains.
- 4.3.5 Connection cost have been identified as follows for a site of 135 dwellings (applications were made before a development of up to 130 dwellings was designed).

No. of Standard Connections	Connection Type	Approximate Rate	Sub Total
135	A-Type	£ 410.00	£ 55,350.00
Standard Infrastructure Charge	Income offset	Infra Rate	Sub Total
135	£ 81,675.00	£ 633.00	£ 3,780.00
Approx. Total			£59,130.00

- 4.3.6 A detailed load assessment should be carried out when the fixtures and fittings for each household are known and a formal application made to SEW.

5 GAS

5.1 Network Supplier

- 5.1.1 The main network operator in the area is Southern Gas Networks (SGN). Drawings showing its network in the vicinity of the site are located in Appendix 7.
- 5.1.2 An application has been made to SGN for the supply of domestic gas services to the site.

5.2 Existing Infrastructure

- 5.2.1 SGN has a 180 PE medium pressure main located in the carriageway of Fox Hill / Lunce's Hill on the opposite side of the road to the development site.

5.3 Proposed New Connection

- 5.3.1 The gas distribution network in the area is at medium pressure.
- 5.3.2 In order to supply domestic low pressure gas for the development a gas governor will be required at the site entrance to convert the mains gas from medium pressure to low pressure to supply the site.
- 5.3.3 An application has been made to the SGN for the provision of gas to the site.
- 5.3.4 SGN has provided a budget quotation of £146,000.00 (inc VAT charged at 20% for non-domestic and 0% for domestic)
- 5.3.5 Attention should be drawn to the easements detailed within the Appendix 2. This gives requirements for digging near SGN systems.

APPENDIX 1 – EASEMENTS

UK Power Networks (UKPN)

- A.** Where the Customer is the owner of the premises or any adjacent land on which the connection works are to be carried out, where reasonably required and at the request of UKPN for the sum of £1, the customer shall:
- grant an easement in perpetuity to UKPN to carry out the connection works and install, lay, repair, replace, renew alter and maintain the connection equipment and
 - enter into a lease for a term of 99 years for the benefit of UKPN of any part or parts of the premises for the siting, repairing, maintenance and access to the accommodation and the connection equipment, or
 - transfer the customer's ownership in an acceptable form to UKPN of any part or parts of the premises for the siting, repairing, maintenance and access to the accommodation and/or connection equipment.
- B.** Where the Customer is the owner, a leasehold interest in the premises or any adjacent land the customer shall, where reasonably required and at the request of UKPN, for the sum of £1:
- grant an easement to UKPN for a term of years expiring one day before the end of the customer's interest in the premises for the benefit of UKPN to carry out the connection works and install, lay, repair, replace, renew alter and maintain the connection equipment and
 - enter into a lease with UKPN for a term of years expiring one day before the end of the customer's leasehold interest in the premises for the benefit of UKPN of any parts or parts of the premises for the installation, laying, siting, repairing, replacement, renewing, altering, maintenance and access to the accommodation and the connection equipment.
- C.** The site will not be energised until all legal work is completed.

Openreach (British Telecommunications)

- A.** All excavations adjacent to apparatus are to be carried out by hand until the exact extent and/or location of apparatus is known. Mechanical borers and/or excavators shall not be used within 1 metre of apparatus or 2 metres of any pole without the supervisory presence of a BT representative. To prevent any movement of apparatus during excavation, complete shuttering shall be used as directed by the BT's engineer if:
- Excavation is deeper than the depth of cover of adjacent apparatus
 - Excavation is within 1.0 metre of apparatus in stable soil
 - Excavation is within 5.0 metres of apparatus in unstable soil
- B.** Contractors shall advise the BT representative, in writing, in order that any special measures protective may be arranged for affected apparatus if, for completion of the works, the contractor intends using any of the following:
- Pile driving equipment within 10.0 metres of apparatus
 - Explosives within 20.0 metres of apparatus
 - Laser equipment within 10.0 metres of apparatus

South East Water (SEW)

- A.** Building over water mains presents two principal problems:
1. They become completely inaccessible for maintenance and repair.
 2. Should they burst, water discharging under pressure may cause significant damage to property and may endanger the structure of the building, possibly to the point of collapse. Even a small volume, undetected long-term leak on a built-over main can erode foundations to the point of collapse.
- Accordingly:
1. Building over a water main is not permitted.
 2. Building alongside a water main is permitted provided a minimum distance of 3.0 metres each side is maintained from any part of the structure. In the case of large diameter mains (any mains above 300mm nominal bore) and strategically important or deep mains, a minimum distance of 5.0 metres is required.
 3. Where development has taken place and build-over has occurred, it is likely that a diversion at the developer /landowner's expense will be required.
- B.** SEW should be consulted at an early stage of the design process when building work is proposed near a public water main. This will allow any necessary arrangements for the protection of the infrastructure to be agreed.

Southern Gas Networks (SGN)

- A.** Protective measures must be taken when excavating in the vicinity of SGN apparatus up to 7 bar pressure. Reference should be made to the HSE Guidance Note HSG 47 "Avoiding Danger from Underground Services" and to "Utilities Guideline on Positioning and Colour Coding Apparatus".
- B.** SGN surface boxes must not be buried or moved. Access must be maintained both during and after works have been carried out. SGN reserve the right to locate and/or realign any boxes not left in such condition upon completion of works and at the expense of the contractor and/or client. No manhole cover or other structure is to be built over, around, or under a gas pipe and no work is to be carried out which results in the reduction or increase in cover protection without agreement.
- C.** No apparatus is to be laid directly above the line of existing gas pipes irrespective of clearance. Where new plant crosses over, or is laid alongside, an existing gas pipe, a minimum clearance of 250 millimetres (or 1.5 times the external diameter of the gas pipe if this is greater) between the gas pipes and new plant should be provided to allow future repair or maintenance. Where the minimum clearances cannot be met, or the work is close to a pipe operating above 2 bar (intermediate pressure), site discussions should be held with NG to agree a suitable clearance.
- D.** In addition, no works or crossings of intermediate pressure pipeline(s) are to be carried out until a detailed consultation has taken place with SGN.
- E.** Mechanical excavators (including breaker attachments) must not be used within 0.5 metres of SGN plant.
- F.** SGN should be consulted on all matters concerning the re-development of an existing site or development of a new site.

APPENDIX 2 – CONTACTED UTILITIES

Utility	Category	Status	Response	Notes
East Sussex County Council	Council	Received	Affected	Council has street lighting and drainage systems on the highway. Lighting is attached to power poles. The power pole which is being taken down does not carry street lighting.
Energy Asset Networks	Electric / Gas	Received	Not affected	IDNO services supplying Gamble Mead site.
Environment Agency	Other	Received	Affected	Standard response received.
Openreach (British Telecommunications)	Telecom	Received	Affected	Services below ground at proposed site entrance. Similar crossing north of site. Trial holes required to establish depth with respect to proposed site levels.
Southern Gas Networks	Gas	Received	Affected	Medium pressure mains located in the carriageway of Lunce's Hill.
South East Water	Water	Received	Affected	15" cast iron mains cross the site.
Southern Water	Sewerage	Received	Affected	Rising main crosses the site.
UK Power Networks	Electric	Received	Affected	Low voltage services cross site entrance to be diverted / lowered.
Utility Assets	INDO	Received	Not Affected	No response received following stated response period.

UTILITY ASSESSMENT

Utility	Category	Status	Response	Notes
CityFibre	Telecom	Received	Not Affected	Website used
GTC	Telecom, Gas, Electric, Water, Pipeline	Received	Not Affected	
National Grid Transmission	Electric / Gas	Received	Not Affected	
Network Rail	Rail	Received	Not Affected	
OCU Group	IDNO / ICP	Received	Not Affected	
SKY Telecommunications Services	Telecom	Received	Not Affected	
Verizon	Telecom	Received	Not affected	
Virgin Media	Telecom	Received	Not Affected	
Vodafone	Telecom	Received	Not Affected	
West Sussex County Council	Council	Received	Not Affected	

APPENDIX 3 – CORRESPONDENCE / QUOTATIONS

Mr. Rajendra Patel
RPS Consulting Services Limited
4th Floor
1, Newhall Street
Birmingham
B3 3NH

Date: 23 October 2024

Our Ref: 8500310742 / QID 3500198829

Dear Mr. Patel

Site Address: Lunce'S Hill, Haywards Heath, RH16 4QT

I am writing to you on behalf of South Eastern Power Networks plc the licensed distributor of electricity for the above address trading as and referred to in this Estimate as "UK Power Networks". Thank you for your recent enquiry regarding the above site. I am pleased to be able to provide you with an Estimate to carry out the works requested.

The Works will:
Divert LV overhead line.

How much is it going to cost?

UK Power Networks carries out all of the requested DNO Works

Price excluding VAT

£38,084.14

Price including VAT

£38,084.14

Please note that the Price is an estimate and UK Power Networks reserves the right to vary the Price to cover the Costs of the work it carries out to deliver the diversion of its Distribution System. If the work carried out to divert the DNO's Distribution System differs in any way from the work proposed in this Estimate, the Price and the completion date may change.

I have enclosed drawing number UKPN 8500310742-1-500 which shows the approximate position of UK Power Networks' existing Electric Lines and Electrical Plant in the area affected by your proposed work. On this drawing I have shown my proposals for the alterations that I presently believe to be necessary to UK Power Networks' Electric Lines and/or Electrical Plant.

Terms and Conditions

This Estimate is subject to version 7 (September 2016) of our **Terms and Conditions For Connection and Diversionary Works** (the "Terms and Conditions") which you can view or download [here](#). Alternatively, please let me know if you would like me to send you a copy in the post. The Terms and Conditions create legally binding obligations so it is important that you take the time to read and understand them. The **bold** text in the Terms and Conditions show particularly important provisions such as the circumstances when the Price may change, and the caps on UK Power Networks' liability. They also contain definitions of terms used in this document and in the linked pages on our website that you may find helpful.

What you need to do next

Before you decide to proceed it is really important that you take note of our **Terms and Conditions**, any **special conditions** detailed below and the details in **Your Information Pack** which includes information contained within the hyperlinked text, all of which constitute your Estimate.

If you would like to accept this Estimate you will need to ensure that the requested payment is in our bank account in full and cleared funds and that we have received your signed Acceptance Form from section 5 below by 5pm on 21 April 2025

Special Conditions

This offer is subject to the following:-

- This quote allows for the proposed work to be completed during normal working hours. If the work cannot be completed within this time and out-of-hours work is required, the cost of out-of-hours work will be chargeable to the customer via the variation process
- This quote allows for the proposed work to be completed under one phase. If this cannot be achieved, a variation will be raised and made chargeable to the customer
- This quote is subject to the local authority approval of the traffic management plans
- This quote is subject to a detailed review by a field engineer and if additional works are required, a variation will be raised and made chargeable to the customer. If tree cutting is required, a variation will be raised and made chargeable to the customer

When can you expect the work to be carried out?

We will try to meet your requested dates wherever possible but the completion date will be dependent on:

- The date that you accept this Estimate.
- Any further discussions we may have with you regarding the programming of the Works.
- The completion of work by other people or companies that must be done before we can complete our work.

Subject to the Terms and Conditions and the Estimate, the DNO Works referred to in this Estimate will be completed on or before 21 April 2026.

Please note that we may require several weeks' notice to obtain materials and programme work of this nature. If you wish to proceed, it is recommended that you send your acceptance form, and payment if applicable, as early as possible to avoid delays on site.

Indicative mobilisation and delivery timeline

Please find attached a generic indicative mobilisation and delivery timeline for a typical project of this type. This provides a generic indication of the approximate usual time taken to undertake the activities described in the timeline. This timeline is provided as a generic guide only and is subject to change so you should not consider it as the actual programme of works. Any reliance that you place on this indicative timeline is at your own risk.

If you are unhappy with our service

If you are unhappy with our service please be aware of our Complaints Procedure which can be found [here](#). This document details your right to contact Ofgem for a formal determination if we have been unable to resolve the matter to your satisfaction.

Do you need more information?

If you have any questions about this Estimate or need more information, please don't hesitate to contact me.

Yours sincerely



Gideon Nchubo

Mobile: 07709 513 965
Email: Gideon.Nchubo@ukpowernetworks.co.uk

Your Information Pack

The following pack provides all of the information you should need to successfully complete your electrical connection for the work you have been quoted. Please pay particular attention to the information that is specific to your project.

Do not hesitate to contact me should you require any further support.

- Section** **1** The Scope of Works
- Section** **2** Estimated Cost of Works
- Section** **3** Your Responsibilities
- Section** **4** Information To Help You As You Plan For Your Work
- Section** **5** Acceptance Form To Proceed With The Works

Section **1** Scope of Works

Please read the details in this section in conjunction with the customer proposal plan.

The Diversionary Works

The alterations to UK Power Networks' Electric Lines and/or Electrical Plant, required to accommodate your proposed work, are described below:

Description of Works

Works to be carried out by the customer

- N/A

Works to be carried out by UK Power Networks

- Complete all civil groundworks and associated traffic management
- Remove 1no LV pole
- Remove 2no LV stays
- Dismantle 2no LV spans
- Erect 4no LV stays
- Create new LV OH terminal (ABC)
- 185H LV Pole Termination
- Supply and install approx. 50m of 185H LV mains cable
- LV amins branch joint 185H/.3 PILC

Section **2** Estimated Cost of Works

Total

Net Price (Excluding VAT)	£38,084.14
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Breakdown of Costs

Description of CONTESTABLE WORK that is included in your Estimate	
Work involved	Net price (£)
TOTAL	£0.00

Description of CONTESTABLE FINAL CLOSING JOINT WORK that is included in your Estimate	
Work involved	Net price (£)
TOTAL	£0.00

Description of NON-CONTESTABLE WORK that is included in your Estimate	
Work involved	Net price (£)
LV Overhead Main	
- Removal of an LV overhead pole - Removal of an LV stay - Dismantlement of an LV overhead span - Installation of an LV stay - Creation of a new overhead terminal - Raise and connect mains pole termination - Additional labour hours for an LV linesman team (normal working hours)	£8,548.72
LV Underground Mains	
- Install additional LV cable, no trench work - Excavate & Reinstate LV joint hole in unmade ground - Excavate & reinstate LV trench in unmade ground. - Install LV duct with no further trench work - Civils groundwork study - Traffic Management costs - Excavate & Reinstate 11kV joint hole in unmade ground - Supply only of 185mm LV waveform mains cable - LV Mains transition branch joint of a 95-185mm cable to a 0.2-0.3in main.	£29,535.41
Transactional Charges	
Other Charges	
TOTAL	£38,084.13

Domestic Reverse Charge VAT Rate

You may be aware of a VAT rate, effective from 1st March 2021, that is referred to as “Domestic Reverse Charge for Construction Services”. I would like to provide you with some clarification about how your quote is affected.

Section 18 of the HMRC Guidance, which explains the Reverse charge treatment for utilities states that “Services provided by utility businesses which do not fall within the domestic reverse charge include the:

- provision of a connection to a utility network, or diversionary works to allow the relocation of the network
- development and construction of a private network to be owned by the utility and leased or sold to the customer
- installation of a boiler (and ancillary supplies)”

You can see the Government’s guidance in full [here](#). So in summary, although UK Power Networks is registered under the Construction Industry Scheme (CIS), the provisions of connection services to our customers are not regarded as construction services because the work is performed on our own assets. Consequently, there will be no change to the way in which we determine how VAT is applied to this job.

Please note that payment is required in full, in advance of the work being programmed.

Section 3 Your Responsibilities

This section provides information about the Contestable Works that you are responsible for should you accept this Estimate.

We have made all of our general information about your responsibilities available in our Knowledge Centre on our internet site at www.ukpowernetworks.co.uk. Links to each of the relevant articles are in the table below.

Please leave us feedback if you think we can improve the information we have provided.

Job Specific Responsibilities

Subject	Link to our Knowledge Library
Ducts for Diversionary Estimates	Section 3.2 Click here
Construction (Design & Management) Regulations 2015 (CDM) ¹ _{SEP}	Section 3.25 Click here

Section 4 Information to Help You Plan For Your Work

Generic Information Applicable to all Diversionary Estimates

Subject	Link to our Knowledge Library
Safety	Section 4.1.2 Click here
Contact us	Section 4.1.9 Click here
Lane rental charges	Section 4.1.10 Click here

Section **5** Acceptance Form (Non-NRSWA)

Job Reference: 8500310742 / 3500198829

Site Address: Lunce'S Hill / HAYWARDS HEATH RH16 4QT

You can return your completed form by post or email:

UK Power Networks (Operations) Ltd
Connections Finance, 3rd Floor
Energy House
Hazelwick Avenue
Three Bridges, Crawley, RH10 1EX

Email: ConnectionAcceptance@ukpowernetworks.co.uk

How much is it going to cost?

UK Power Networks carries out all of the requested DNO Works

Price excluding VAT

£38,084.14

Price including VAT

£38,084.14

Payment Profile

I understand that the Price, including VAT, must be paid in full to accept this Estimate. I also understand that where VAT has been charged a Tax Invoice for the Price will be issued by UK Power Networks on receipt of payment.

Please indicate your method of payment:



Online payment
portal
QR code



Online

Scan the **QR code** to access UK Power Networks easy to use 24/7 self-service online payment portal or visit onlinepayment.ukpowernetworks.co.uk. We recommend our customers to use this payment option as a preferred way of paying quotes online.



Phone

A dedicated payment line **0808 175 2600** available 24/7 to accept credit/debit card payments over the phone, or please call **0203 282 0610** to speak to one of UK Power Networks contacts. We accept all major credit and debit cards, apart from American Express/Diners Club.



Cheque

Please make cheques payable to **UK Power Networks (Operations) Ltd** and **put our reference number on the back.**



BACS/
CHAPS

Account: HSBC Bank Plc **Sort Code:** 40 05 30 **Account Number:** 02302934
UK Power Networks Ref. Number 3500198829
(Please include this reference so we know which job is being paid):

The Invoice Address	Your Site Contact
Name / Company name:	Name / Company name:
Contact name:	Contact name:
Address:	Address:
Telephone:	Telephone:
Email:	Email:

Your Acceptance

I accept your Estimate for carrying out the DNO Works. I understand that UK Power Networks reserves the right to vary the Price to cover the Costs of the DNO Works carried out and that I shall be required to pay any such additional Costs.

I have already paid £0.00 inclusive of VAT towards the total price and therefore £38,084.14 remains payable.

To accept this Estimate, the signed Acceptance Form and the requested payment in cleared funds must reach UK Power Networks by 5pm on 21 April 2025. Acceptance Forms and payments received after this date may be returned and you will need to request a new Estimate.

Signed:	Date:
Print name:	
Agent acting on behalf of:	
Telephone:	
Email:	

Job Reference: 8500310742 / 3500198829

Acceptance Form Page 2

Land Rights

If you are appointing a Solicitor to complete any legal work associated with acquiring substation sites and easements work, please provide UK Power Networks with their details by completing the table below.

Please also provide us with the name and address of the owner of any affected land.

Solicitor's Information

Name / Company name:

Contact name:

Address:

Telephone:

Email:

Land Owner's Information

Name / Company name:

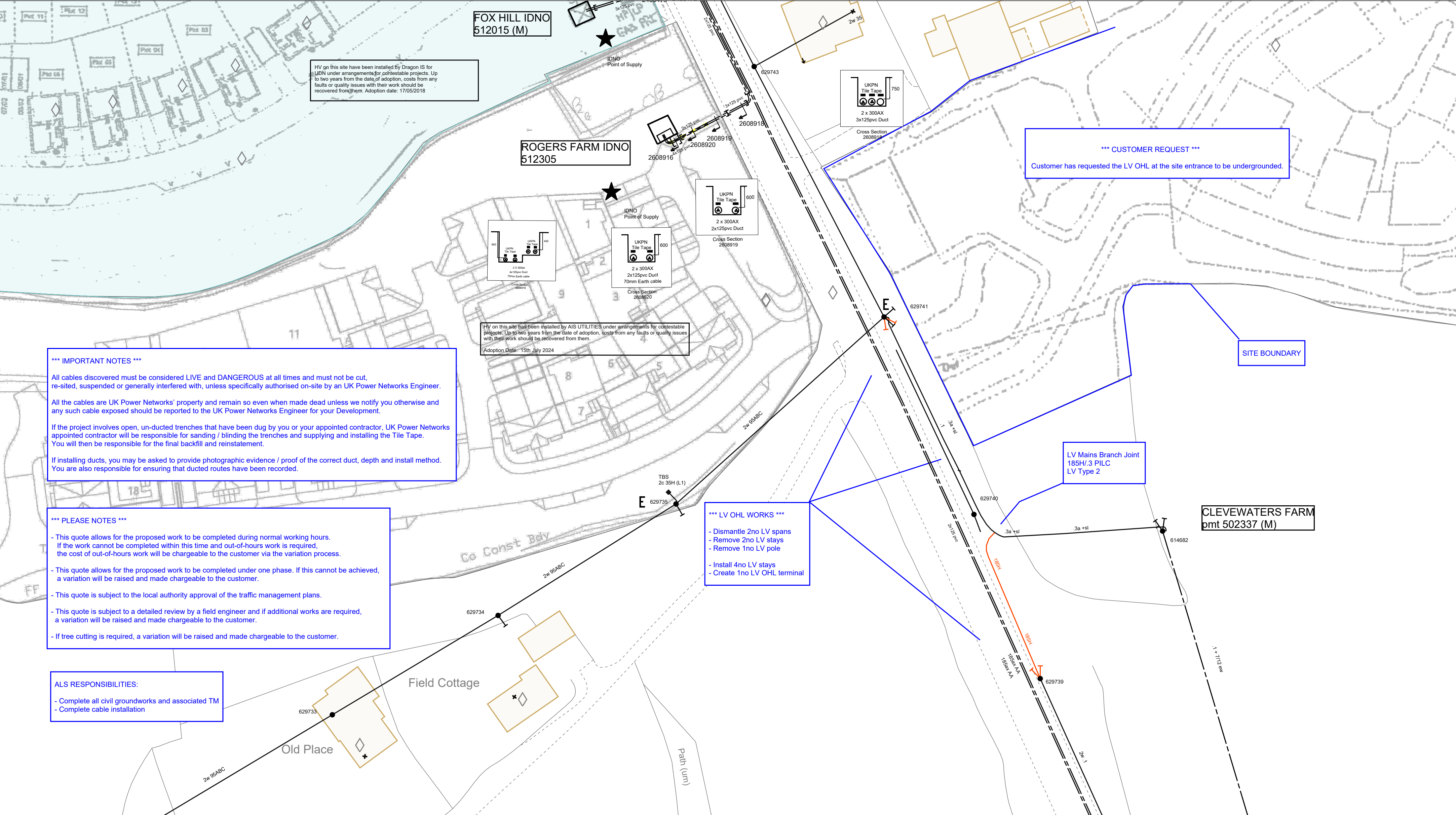
Contact name:

Address:

Telephone:

Email:

Job Reference: 8500310742 / 3500198829



*** IMPORTANT NOTES ***

All cables discovered must be considered LIVE and DANGEROUS at all times and must not be cut, re-sited, suspended or generally interfered with, unless specifically authorised on-site by an UK Power Networks Engineer.

All the cables are UK Power Networks' property and remain so even when made dead unless we notify you otherwise and any such cable exposed should be reported to the UK Power Networks Engineer for your Development.

If the project involves open, un-ducted trenches that have been dug by you or your appointed contractor, UK Power Networks appointed contractor will be responsible for sanding / blinding the trenches and supplying and installing the Tile Tape. You will then be responsible for the final backfill and reinstatement.

If installing ducts, you may be asked to provide photographic evidence / proof of the correct duct, depth and install method. You are also responsible for ensuring that ducted routes have been recorded.

*** PLEASE NOTES ***

- This quote allows for the proposed work to be completed during normal working hours. If the work cannot be completed within this time and out-of-hours work is required, the cost of out-of-hours work will be chargeable to the customer via the variation process.
- This quote allows for the proposed work to be completed under one phase. If this cannot be achieved, a variation will be raised and made chargeable to the customer.
- This quote is subject to the local authority approval of the traffic management plans.
- This quote is subject to a detailed review by a field engineer and if additional works are required, a variation will be raised and made chargeable to the customer.
- If tree cutting is required, a variation will be raised and made chargeable to the customer.

ALS RESPONSIBILITIES:

- Complete all civil groundworks and associated TM
- Complete cable installation

*** LV OHL WORKS ***

- Dismantle 2no LV spans
- Remove 2no LV stays
- Remove 1no LV pole
- Install 4no LV stays
- Create 1no LV OHL terminal

Description	Existing	Proposed	1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed. 2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools. 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all cables have been determined. 4. It must be assumed that each property and item of street furniture has an electricity supply. Service cables shown only where known. 5. All cables must be treated as being live unless proved otherwise by UK Power Networks. 6. The information provided must be given to all people working near UK Power Networks plant & equipment. Do not use plans more than 3 months after the issue date for excavation purposes. 7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.	1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk. 2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence. 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever. 4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and you must return it to the sender of the letter. 5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.	0m10m20m30m40m50m60m70m80m The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.	
LV Cable or Line			VISITING AN OPEN POINT? Please mark on this plan all locations visited and open points as found, then return updated map to your Business Unit - Thank You. Contact UK Power Networks on 0800 056 5866 for details of EHV Cable routes before commencing work. Maps produced at 1:2500 scale are LV Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.	Plan Provision CHECK IT OUT BEFORE YOU DIG IT OUT CALL 0800 056 5866 EMERGENCY- If you damage a cable or line Phone 0800 096 3766 (24hrs) URGENTLY	Grid Ref: TQ 33796 21695 Scale: 1:500 (When Plotted at A2) Plotted on: 13/10/2024 Plotted by: Gideon Nchubo	
HV Cable or Line						
EHV Cable or Line						
Approx. position						
Ductline						
Pole & Street Furniture						
Substation & Link Box						
Reproduced by permission of Ordnance Survey on behalf of HMSO. (c) Crown copyright and database right 2024. All rights reserved. Ordnance Survey Licence number AC0000850810. Data has been added to the Ordnance Survey base map; all proprietary rights in such additional data are and shall remain the exclusive property of (c) South Eastern Power Networks plc or London Power Networks plc each being a distribution licensee under section 6(1)(c) of the Electricity Act 1989 for the relevant distribution services area as that term is defined in such licensee's distribution licence. All rights in such data reserved.						

GENERIC INDICATIVE MOBILISATION & DELIVERY TIMELINE					Quote reference																				
					8500310742																				
Enabling works	Applies to this site	Comment	Start (week)	Duration (weeks)	Quote Accepted / Payment Received / Liaison with customer commenced	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Responsible
Usual approximate time taken to secure on site consents, legal permissions and agreements with existing land owners.	No		0	0		UK Power Networks & Customer / 1st Party Solicitor																			
Usual approximate time taken to secure off site consents, legal permissions and agreements with existing land owners.	No		0	0		UK Power Networks & Customer / 3rd Party Solicitor / landowner																			
Usual approximate time taken to prepare and submit application to local authority for Traffic Management Permit in order to carry out street works on the public highway.	No		0	0		UK Power Networks																			
Usual approximate time taken to obtain permission from Local Authority for Traffic Management Permit, in order to carry out street works on the public highway.	No		0	0		Local Authority																			
Usual approximate time taken to order and receive "non-stock" materials and equipment prior to their installation.	No		0	0		UK Power Networks																			
Usual approximate lead in / mobilisation time	Yes		0	16		UK Power Networks																			
Usual approximate time taken to carry out upstream re-enforcement works related to your connection.	No		0	0		UK Power Networks																			
Work that the customer will need to complete to prepare the site ready for the installation work to begin.	Customer to confirm the duration of this work / potential impact to on site work		TBC	TBC		Customer																			
Usual Work programme (to be agreed) - Indicative Duration of work				1																					

Please note that the above timeline is a generic indication of the approximate usual time taken to undertake the activities described for a typical project of this type. The timeline is provided as a generic guide only and is subject to change. Any reliance that you place on this indicative timeline is at your own risk. This indicative timeline does not represent an actual programme of works. Only once discussions are underway with a UK Power Networks' delivery representative can a programme of works be agreed.

Cable Protection

LV Mains, LV Services, 11kV and 20/22kV Tile tape (200mm x 2.5mm)



LV Voltage cable trenches

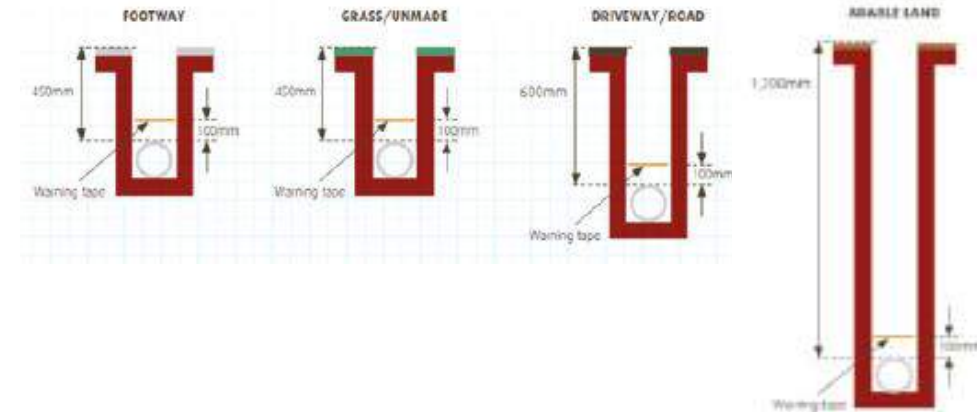
All Low Voltage (LV) cables shall be installed to the following minimum depths, whether they are laid direct or installed in suitable ducts:

Footways, grass verges or private property = 450mm;

Carriageways (including road crossings) = 600mm;

Normal agricultural land (not subject to deep ploughing) = 1050mm;

Agricultural land subject to deep ploughing = 1200mm.



Cable Protection

High Voltage cable trenches

11kV and 20kV Cables:

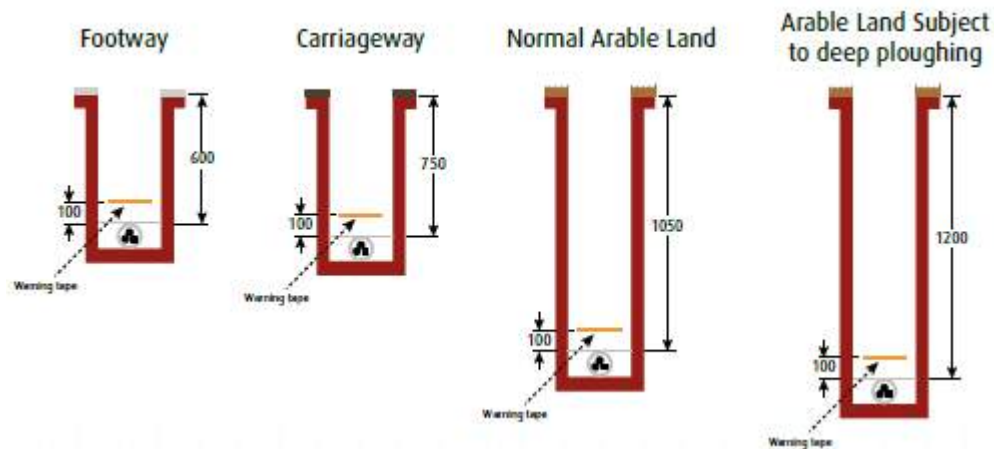
All 11kV and 20kV cables shall be installed to the following minimum depths, whether they are laid direct or installed in suitable ducts:

Footways, grass verges or private property = 600mm.

Carriageways (including road crossings) = 750mm.

Normal agricultural land (not subject to deep ploughing) = 1050mm.

Agricultural land subject to deep ploughing = 1200mm.



Trench Bedding

All cables shall only be laid directly onto the bottom of the trench, if the surface is unlikely to cause damage to the outer sheath. For LV and 11kV cable installations, a sand bedding material needs to be used for the base of a trench, the depth of the trench shall be increased by the appropriate amount to ensure that the required minimum depth of cover is achieved. All bedding layers shall be compacted to a depth of 75mm and shall be installed covering the full width of the trench.

Cable Ducts

Electricity, pilot and telephone cables shall only be installed into electricity cable ducts, complying with EAS 00-0002. New cable ducts shall be black in colour and marked with 'Electric Cable Duct' on two diametrically opposite sides. Cable shall only be installed in ducts that are suitable sized to accommodate them.

125mm Solid Rigiduct 2 metre length (All Services/mains above 100A) Code: RB125X2

125mm Solid Rigiduct 6 metre length (All Services/mains above 100A) Code: RB125X6

32mm Polyduct (Single Phase 100A) Code: PD3237X**BEPE **Available in various lengths

50mm Polyduct (Three Phase 100A) Code: PD5060X**BEPE **Available in various lengths



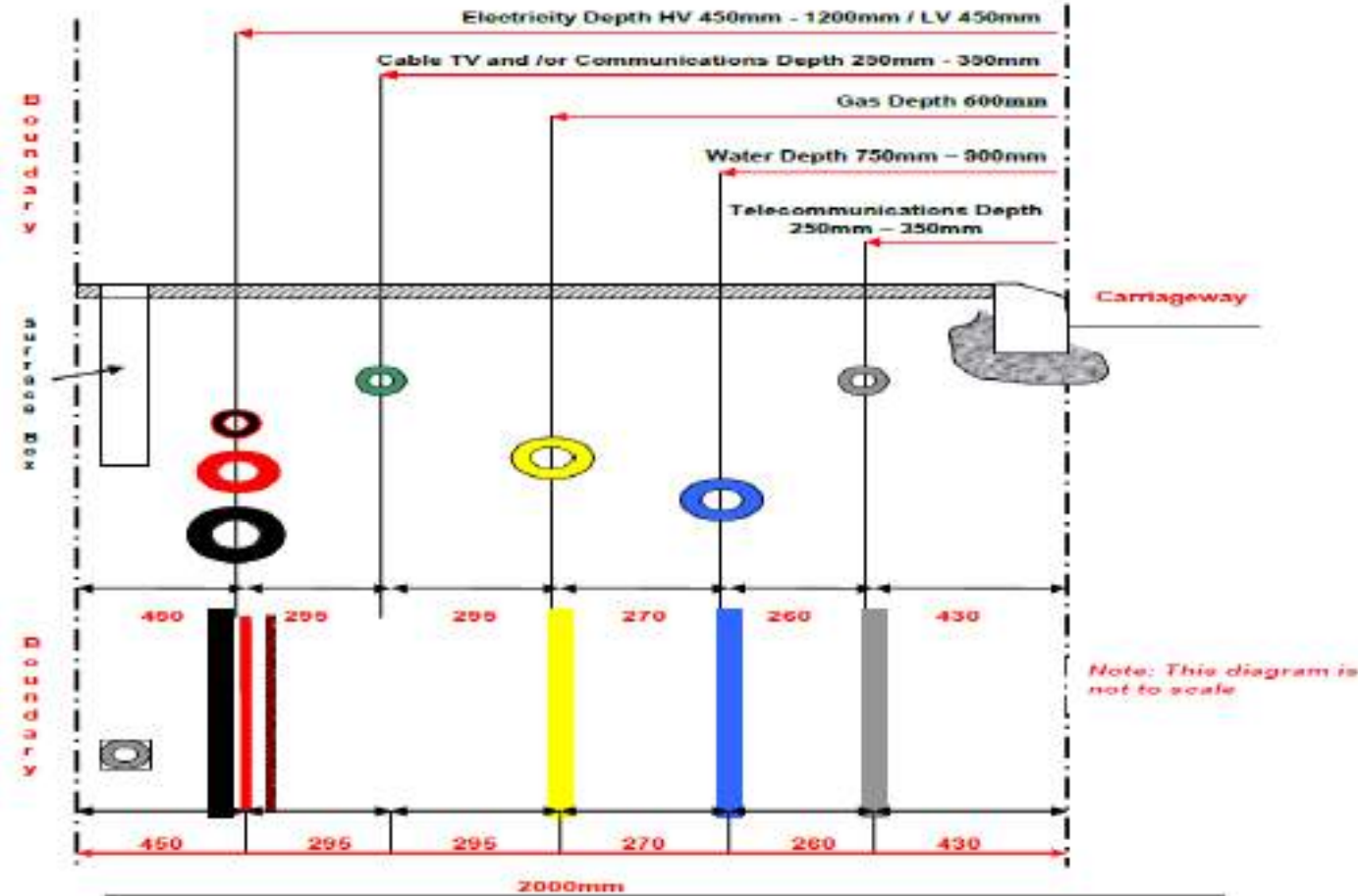
125mm ID x 148mm OD BLACK POLYPIPE LOW VOLTAGE RIDGIDUCT IN 2m & 6m LENGTHS



37mm O/D x 32mm I/D BLACK SERVICE DUCT PRINTED 'ELECTRIC CABLE'



60mm O/D x 50mm I/D BLACK SERVICE DUCT PRINTED 'ELECTRIC CABLE'



Mr. Rajendra Patel
RPS Consulting Services Limited
4th Floor
1, Newhall Street
Birmingham
B3 3NH

Date: 28 October 2024

Our Ref: 8500310663 / QID 3500199097

Customer Ref:

Dear Mr. Patel

Site Address: Lunce'S Hill, Haywards Heath, RH16 4QT

I am writing to you on behalf of South Eastern Power Networks plc the licensed distributor of electricity for the above address trading as and referred to in the Quote as "UK Power Networks". Thank you for your recent enquiry regarding the above site. I am pleased to be able to provide you with this Quote to carry out the work requested.

The Works will enable the provision of an import capacity of 395.000 kVA,. and a maximum export capacity of 0.00 KW.

Summary of Your Request

The provision of new supplies to a housing development.

UK Power Networks would like to carry out all of the requested work for you. However, other companies can do some or all of the work for you; these are known as Independent Connection Providers (**ICPs**). You can approach NERS accredited ICPs directly, or you can approach an Independent Distribution Network Operator (**IDNO**) to request this work and they will arrange for an ICP to carry out the Contestable Works. To find out more about which ICPs work in our area and what work they can undertake please [click here](#).

To give you as much choice as possible we are able to offer you **the following options** for getting your work done:

How much is it going to cost?		Price excluding VAT	Price including VAT
A	UK Power Networks carries out all of the requested 'contestable' and 'non-contestable' works required for your connection	£391,257.49	£402,698.45
B	UK Power Networks carries out all the 'non-contestable' work and the 'contestable closing joint'. The ICP carries out all other requested 'contestable' work	£14,118.42	£14,612.57
C	UK Power Networks carries out the 'non-contestable' works only. The ICP carries out all of the works classified as 'contestable'	£12,068.29	£12,490.69

A short guide is available to help you understand the three different Prices (options A, B and C). To see this guide please [click here](#).

Provisional Price

I would like to draw to your attention to the provisional nature of the Quote. At the date of issue, the detailed design and/or the procurement process is not complete and the proposed design is dependent on securing Consents and Land Rights that have not yet been obtained from third parties. We will notify you in writing if the Works, the completion date or the Price need to be adjusted once the detailed design and the procurement process is complete and the Consents and Land Rights have been obtained.

Terms and Conditions

The Quote is subject to version 7 (September 2016) of our **Terms and Conditions For Connection and Diversions Works** (the “**Terms and Conditions**”) which you can view [here](#). Alternatively, please let me know if you would like me to send you a copy in the post. **The Terms and Conditions create legally binding obligations and, amongst other things, contain caps and exclusions on UK Power Networks’ liability to you and grounds for variation and termination. Therefore, it is important that you take the time to read and understand them.** They also contain definitions of terms used in this document and in the linked pages on our website, which you may find helpful such as “DNO” and “DNO Works”.

Special Conditions

The Quote is subject to and conditional upon the following conditions:-

- No works shall commence until all consents have been obtained
- This quote allows for the proposed works to be completed under one phase of works, if this cannot be achieved then a variation will be made chargeable to the customer
- This quote allows for the proposed works to be completed during normal working hours. If the works cannot be completed within this time, and out of hours working is required, any extra work will be chargeable to the customer
- Where access to substation doors is likely to be compromised by parking vehicles, preventive measures should be installed, ideally in the form of fixed or removable bollards. Alternatively, protection may be afforded by the creation of a locally raised kerb (220mm high) in front of the doors. as per section 6.1 of EDS 07-3102
- This quote is provisional on the basis that the service cable length and routes will be agreed post quote acceptance and payment. If additional cables are required, then a variation will be raised and made 100% chargeable. Service cable length per house shall not exceed 43m

Compliance with Engineering Recommendations P28, P29 and G5/5

If this Quote provides for export capacity (that may include install solar panels or battery storage) or import capacity with disturbing loads (that may include electric vehicle charging), you will be responsible for compliance with Engineering Recommendations P28, P29 and G5/5. More information about these Recommendations can be found [here](#).

You may be asked to demonstrate compliance with Engineering Recommendations P28, P29 and/or G5/5.

UK Power Networks may refuse to allow connection of generation to our network where compliance cannot be demonstrated. Where the installation needs to be Witness Tested compliance reports will need to be provided in advance of booking a date for the Witness Test to be undertaken.

When can you expect your electricity connection?

Once you have accepted the Quote we will call you to discuss a programme of Works. Subject to the terms of the Quote, the DNO Works referred to in the Quote will be completed on or before 26 April 2026.

We will try to meet your requested dates wherever possible but the completion date will be dependent on: The date that the Quote is accepted;

- How much of the Works you wish UK Power Networks to complete;
- Any further discussions we may have with you regarding the programming of the DNO Works;
- The completion of work by other people or companies that must be done before we can complete our DNO Works;
- Approval of your design and programme for the Contestable Works by UK Power Networks (if applicable);
- Obtaining full access to the Site;

- UK Power Networks obtaining all necessary Consents and Land Rights in a timely manner;
- Any delay to the Works due to: unplanned outages (i.e. breakdown or failure of electric power); or availability of planned outages (i.e. temporary suspension or withdrawal of electric power) to carry out certain works on UK Power Networks' distribution system;
- Completion of all cable route feasibility studies;
- All conditions precedent being met by you and/or your appointed ICP where applicable;
- Your Site being ready for energisation before the target energisation date; and
- Energisation falling suitably within the outage period.

Indicative mobilisation and delivery timeline

Please find attached a generic indicative mobilisation and delivery timeline for a typical project of this type. This provides a generic indication of the approximate usual time taken to undertake the activities described in the timeline. This timeline is provided as a generic guide only and is subject to change so you should not consider it as the actual programme of works. Any reliance that you place on this indicative timeline is at your own risk.

Interactivity

UK Power Networks has not received a request from any other customer for connections to the same part of our Distribution System, but to find out what happens if they do, please [click here](#).

Variation of Works

If there is a variation to the scope of the Works where the Price is expected to increase, then an additional payment will be due. Your on-site representative, who must have your authorisation to agree variation to the Works, will be asked to sign a variation form or send an email agreeing to this variation. If this is not received, then this could result in a delay to the Works and further charges due to remobilising of resources to complete the Works.

Please note that subject to any variations and changes to the Price as a result of other conditions set out in the Quote, the Price as identified in the Quote will remain valid for 12 months from the date of acceptance of the Quote. As stated in clause 6.2.3 of the Terms and Conditions, any DNO Works delivered after this date may be subject to a variation in Price reflecting any increase in Costs that will be incurred by UK Power Networks to deliver the DNO Works.

What you need to do next

Before you decide to proceed it is very important that you take note of our **Terms and Conditions**, any **special conditions** detailed above as well as the details in **Your Information Pack** including the information contained within the hyperlinked text, all of which constitute the **Quote**.

If you would like to accept the Quote you will need to ensure that the requested payment is in UK Power Networks' nominated bank account in full and cleared funds and that we have received your signed Acceptance Form from section 5 below by 5pm on 26 April 2025.

If you would like UK Power Networks to carry out all of the Contestable Works and Non-Contestable Works please accept option A. If you would prefer to use an ICP to carry out the Contestable Work (or an IDNO to arrange for an ICP to carry out the Contestable Works), you can pass the Quote to them and they can accept either option B or option C. Alternatively, you can accept option B or option C yourself, but you will need to ensure that your appointed ICP or IDNO understands what they must do, and what UK Power Networks will do for these options. **You can only accept one option.**

Do you need more information?

If you have any questions about the Quote or need more information, please do not hesitate to contact me.

Yours sincerely



Gideon Nchubo

Mobile: 07709 513 965
Email: Gideon.Nchubo@ukpowernetworks.co.uk



To download your free safety leaflets and resources visit
[UK Power Networks - Safety Page](#)

Your Information Pack

The following pack provides all of the information you should need to successfully complete your electrical connection for the work you have been quoted. Please pay particular attention to the information that is specific to your project.

Do not hesitate to contact me should you require any further support.

- Section 1** The Scope of Works
- Section 2** Cost Breakdown
- Section 3** Your Responsibilities
- Section 4** Information To Help You As You Plan For Your Work
- Section 5** Acceptance Form To Proceed With The Works

Section **1** Scope of Works

Please read the details in this section in conjunction with the customer proposal plan (referred to in the Drawing Schedule in Section 4).

A	UK Power Networks carries out all the Contestable and Non-Contestable Works.
B	UK Power Networks carries out the final closing joint onto the existing network and Non-Contestable Works. You will need to arrange for the completion of the remaining Contestable Works by an accredited ICP. If option B is accepted, your appointed ICP will be responsible for the production of all detailed constructible designs, which you must submit to UK Power Networks for review and approval prior to the commencement of any Contestable Works. No charge will be made by UK Power Networks for this service.
C	UK Power Networks carries out Non-Contestable Works. You will need to arrange for the completion of the Contestable Works by an accredited ICP. If option C is accepted, your appointed ICP will be responsible for the production of all detailed constructible designs, which you must submit to UK Power Networks for review and approval prior to the commencement of any Contestable Works. No charge will be made by UK Power Networks for this service.

Your Connections

The table below provides a summary of the technical characteristics and the connection types you have requested:

The below are all fed from one service via a BNO (Building Network Operator) arrangement:

Type of Property	No. of MPANs	Metering Voltage	Phase Type	Import Capacity (kVA)	Export Capacity (kW)
Commercial	1	400V	Three Phase, 50HZ	69	
Meter Position	Service Cable	Fuse Size	Earthing	Metering	
External Meter box	35mm2 Multicore	100A to BS1361	PME(TN-C-S)	Whole Current	

Type of Property	No. of MPANs	Metering Voltage	Phase Type	Import Capacity (kVA)	Export Capacity (kW)
House	130	230V	Single Phase, 50HZ	325	
Meter Position	Service Cable	Fuse Size	Earthing	Metering	
External Meter box	2c 35mm2 c/c	100A to BS1361	PME(TN-C-S)	Whole Current	

Type of Property	No. of MPANs	Metering Voltage	Phase Type	Import Capacity (kVA)	Export Capacity (kW)
Landlords Supply	1	230V	Single Phase, 50HZ	1	
Meter Position	Service Cable	Fuse Size	Earthing	Metering	
External Meter box	2c 35mm2 c/c	100A to BS1361	PME(TN-C-S)	Whole Current	

Phases of work

Our delivery time scale of the DNO Works may be subject to our performance standards, as detailed in 'Our Connections Standards of Performance' leaflet that can be found [here](#). The standards make reference to the DNO Works in totality, including the delivery of the work that you may request to be completed in discrete parts (which are referred to as phases). The Quote covers ONE phase(s) of work.

Section **2** Cost Breakdown

Totals

Option	A	B	C
Net Price (Excluding VAT)	£391,257.49	£14,118.42	£12,068.29

Breakdown of Costs

Description of CONTESTABLE WORK that is included in option A only	
Work involved	Net price (£)
Domestic Services	
- LV mains service branch joint on single phase service cable. - Supply only of single phase 35mm LV service cable - Supply & terminate 1ph 100A Cut Out (not including joint) - Additional labour hours for an LV jointing team (normal working hours)	£68,504.19
Commercial Services	
- LV mains service branch joint on three phase service cable. - Supply only of three phase 35mm LV service cable - Supply & terminate 3ph 100A Cut Out (not including joint)	£876.25
LV Underground Mains	
- Excavate & Reinstate LV joint hole in unmade ground - Install LV cable to duct or cable tray - Distribution unit termination (LV Board/Cabinet) - Supply only of 300mm LV waveform mains cable - LV Mains straight joint of a 95-300mm cable to a 240-300mm main. - LV Mains branch joint of a 95-300mm cable to a 240-300mm main. - LV waveform mains pot end & installation of earth pin.	£175,639.59
HV Plant and Switchgear	
300mm HV indoor end box termination - Establish an 800kVA unit substation within a GRP Housing. Includes 800kVA transformer, Ring Main Unit, 5-way LV cabinet, RTU, internal small power/lighting and substation ancillaries. Excludes GRP, civil works and HV/LV jointing. - Transport of plant in normal weekday working hours - Supply and fit of a green GRP substation housing.	£78,703.44
HV Substation Civils	
- Civils groundworks costs - Sand & cap/shingle substation	£3,735.12
HV Underground Mains	
- Civils groundwork study - Traffic Management costs - Install 11kV cable to duct or cable tray - Install HV duct with no further trench work - Excavate, lay cable & reinstate 11kV trench in unmade ground. - Install additional 11kV cable, widen unmade trench - Excavate, lay cable & reinstate 11kV trench in a category 3 or 4 carriageway. - Install HV duct including widening surfaced trench - Excavate & Reinstate 11kV joint hole in a category 3 or 4 carriageway.	£49,680.48

- Excavate an extended 11kV joint hole in a category 3 or 4 carriageway. - Reinstate an extended 11kV joint hole in a category 3 or 4 carriageway. - Supply only of 11kV 300mm aluminium Triplex mains cable	
TOTAL	£377,139.07

Description of CONTESTABLE FINAL CLOSING JOINT WORK that is included in option	A	and in option	B	
Work involved				Net price (£)
HV Underground Mains				
11kV 185mm to 300mm Triplex straight joint				£2,050.13
TOTAL				£2,050.13

Description of NON-CONTESTABLE WORK that is included in option	A	and in option	B	and in option	C
Work involved					Net price (£)
HV Plant and Switchgear					
- Inspection of substation civil works - Commissioning of a Remote Terminal Unit (RTU) - Legal fees for the arrangement of an Easement in relation to UKPN assets. - Legal fees for a Freehold/Leasehold for the establishment of a substation in a new physical location. 11kV outage associated with the provision of an 11kV substation					£10,613.29
Transactional Charges					
Assessment & Design Charges					£1,455.00
Other charges					
TOTAL					£12,068.29

Domestic Reverse Charge VAT Rate

You may be aware of a VAT rate, effective from 1st March 2021, that is referred to as “Domestic Reverse Charge for Construction Services”. I would like to provide you with some clarification about how the Quote is affected.

Section 18 of the HMRC Guidance, which explains the reverse charge treatment for utilities states that “Services provided by utility businesses which do not fall within the domestic reverse charge include the:

- provision of a connection to a utility network, or diversionary works to allow the relocation of the network
- development and construction of a private network to be owned by the utility and leased or sold to the customer
- installation of a boiler (and ancillary supplies)”

You can see the Government's guidance in full [here](#). So in summary, although UK Power Networks is registered under the Construction Industry Scheme (CIS), the provision of connection services to our customers is not regarded as construction services because the work is performed on our own assets. Consequently, there will be no change to the way in which we determine how VAT is applied to this job.

Provision of Service to Build IDNO Networks and VAT

The VAT Rate applied to this job is applicable where UK Power Networks completes all the work (Option A). If you wish to accept Option B or C (where offered) and wish to approach an IDNO to arrange for the Contestable Works to be undertaken (see summary on page 1) the VAT Rate may change and we will issue an invoice to you for the outstanding VAT.

Please note that payment is required in full, in advance of the work being programmed.

Section 3 Your Responsibilities

This section provides information about the work that you are responsible for should you accept the Quote.

We have made all of our general information about your responsibilities available in our Knowledge Centre on our internet site at www.ukpowernetworks.co.uk. Links to each of the relevant articles are in the table below.

Please let me know if you think we can improve the information we have provided.

Job Specific Responsibilities

Subject	Link to our Knowledge Library
On-site trenches and cable route	Section 3.1 Click here
Ducts	Section 3.2 Click here
Land rights required from You in connection with land within Your occupation, ownership or control (time to complete the legal work between Your solicitors and UK Power Networks' solicitors associated with acquiring substation sites and easements)	Section 3.19 Click here
Land rights required from You in connection with land within Your occupation, ownership or control (the freehold/leasehold of the substation site)	Section 3.20 Click here
Land rights required from You in connection with land within Your occupation, ownership or control (easements for the underground cables)	Section 3.21 Click here
Land rights required from You in connection with land within Your occupation, ownership or control (termed wayleave for the underground cables)	Section 3.22 Click here

Generic Responsibilities Applicable to all Quotes

Subject	Link to our Knowledge Library
Construction (Design & Management) Regulations 2015 (CDM) ¹ _{SEP}	Section 3.25 Click here
Appoint an electricity supplier	Section 3.26 Click here
Works to be undertaken by the ICP/IDNO if UK Power Networks is undertaking the non-contestable Works only	Section 3.27 Click here
Land rights for option B or C - where UK Power Networks is undertaking the non-contestable Works only	Section 3.28 Click here

Section 4 Information to Help You Plan For Your Work

Drawing Schedule

The table below shows a summary of the standard drawings that may be useful for the Quote, along with hyperlinks to the drawings that are currently applicable. Our drawings are revised periodically so the links in the table below may not work in the future if the drawings are superseded. However the latest versions of all of our standard drawings can be found [here](#). If you have not used our G81 web pages before you will be asked to register your credentials for future logins and updates.

Drawing Number	Drawing Description
UKPN 8500310663-1-500	Customer proposal plan
ECS 02-0019	LV/HV/EHV cable trench details View
EDS 07-3102_01	Unit or Padmount substation in GRP enclosure View
EDS 08-2110-01	100A Single-phase Cut-out in Meter Box View
EDS 08-2110-04	100A Three-phase Cut-out in Meter Box View
EDS 08-2110-13	100-600A Cut-out Arrangements in a GRP or Brick-built Kiosk View

Job Specific Information

Subject	Link to our Knowledge Library
Earth Fault Loop Impedance (EFLI)	Section 4.4 Click here
Cables between UK Power Networks and Customer installations up to 400A	Section 4.5 Click here
Private generation	Section 4.6 Click here
Interactive process	Section 4.10 Click here

Generic Information Applicable to all Quotes

Subject	Link to our Knowledge Library
Information common to all Quotes	Section 4.1 Click here

If you are unhappy with our service please follow our Complaints Procedure Specific to Commercial and Industrial Projects which can be found [here](#). This document details your right to contact Ofgem for a formal determination if we have been unable to resolve the matter to your satisfaction.

Section 5 Acceptance Form

Job Reference: 8500310663 / 3500199097

Site Address: Lunce'S Hill / HAYWARDS HEATH RH16 4QT

Please return your completed form by post or email:

UK Power Networks (Operations) Ltd
Connections Finance, 3rd Floor
Energy House
Hazelwick Avenue
Three Bridges, Crawley, RH10 1EX

Email: ConnectionAcceptance@ukpowernetworks.co.uk

Please indicate which option you accept:

	Please tick one only	Price excluding VAT	Price including VAT
A UK Power Networks carries out all of the requested 'contestable' and 'non-contestable' works required for your connection	☐	£391,257.49	£402,698.45
B UK Power Networks carries out all the 'non-contestable' work and the 'contestable closing joint'. The ICP carries out all other requested 'contestable' work	☐	£14,118.42	£14,612.57
C UK Power Networks carries out the 'non-contestable' works only. The ICP carries out all of the works classified as 'contestable'	☐	£12,068.29	£12,490.69

Payment Profile

I understand that the Price, including VAT, must be paid in full to accept the Quote. I also understand that where VAT has been charged a Tax Invoice for the Price will be issued by UK Power Networks on receipt of payment.

Please indicate your method of payment:



Online payment portal QR code

☐ Online

Scan the **QR code** to access UK Power Networks easy to use 24/7 self-service online payment portal or visit onlinepayment.ukpowernetworks.co.uk. We recommend our customers to use this payment option as a preferred way of paying quotes online.

☐ Phone

A dedicated payment line **0808 175 2600** available 24/7 to accept credit/debit card payments over the phone, or please call **0203 282 0610** to speak to one of UK Power Networks contacts. We accept all major credit and debit cards, apart from American Express/Diners Club.

☐ Cheque

Please make cheques payable to **UK Power Networks (Operations) Ltd** and **put our reference number on the back**.

☐ BACS/CHAPS

Account: HSBC Bank Plc **Sort Code:** 40 05 30 **Account Number:** 02302934
UK Power Networks Ref. Number 3500199097
(Please include this reference so we know which job is being paid):

The Invoice Address	Your Site Contact
Name / Company name:	Name / Company name:
Contact name:	Contact name:
Address:	Address:
Telephone:	Telephone:
Email:	Email:

Your Acceptance

I accept UK Power Networks' Quote for carrying out the DNO Works in accordance with the option I have chosen overleaf.

To accept the Quote, the signed Acceptance Form and payment in cleared funds must reach UK Power Networks by 5pm on 26 April 2025. Acceptance Forms and payments received after this date may be returned and you will need to request a new Quote.

Signed:	Date:
Print name:	
Agent acting on behalf of:	
Telephone:	
Email:	

Job Reference: 8500310663 / 3500199097

Acceptance Form Part 2

Land Rights

If you are appointing a Solicitor to complete any legal work associated with acquiring substation sites and easements work, please provide UK Power Networks with their details by completing the table below.

Please also provide us with the name and address of the owner of any affected land.

Solicitor's Information

Name / Company name:

Contact name:

Address:

Telephone:

Email:

Land Owner's Information

Name / Company name:

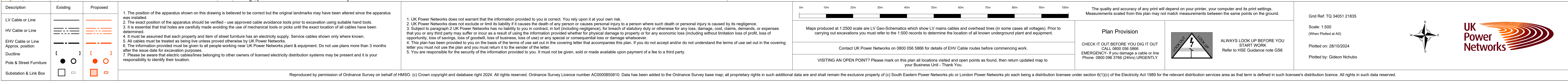
Contact name:

Address:

Telephone:

Email:

Job Reference: 8500310663 / 3500199097



GENERIC INDICATIVE MOBILISATION & DELIVERY TIMELINE					Quote reference 8500310663		
Enabling works	Applies to this site	Comment	Start (week)	Duration (weeks)	Quote Accepted / Payment Received / Liaison with customer commenced	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	Responsible
Usual approximate time taken to secure on site consents, legal permissions and agreements with existing land owners.	Yes		0	16			UK Power Networks & Customer / 1st Party Solicitor
Usual approximate time taken to secure off site consents, legal permissions and agreements with existing land owners.	No		0	0			UK Power Networks & Customer / 3rd Party Solicitor / landowner
Usual approximate time taken to prepare and submit application to local authority for Traffic Management Permit in order to carry out street works on the public highway.	No		0	0			UK Power Networks
Usual approximate time taken to obtain permission from Local Authority for Traffic Management Permit, in order to carry out street works on the public highway.	No		0	0			Local Authority
Usual approximate time taken to order and receive "non-stock" materials and equipment prior to their installation.	No		0	0			UK Power Networks
Usual approximate lead in / mobilisation time	Yes		16	16			UK Power Networks
Usual approximate time taken to carry out upstream re-enforcement works related to your connection.	No		0	0			UK Power Networks
Work that the customer will need to complete to prepare the site ready for the installation work to begin.	Customer to confirm the duration of this work / potential impact to on site work		TBC	TBC			Customer
Usual Work programme (to be agreed) - Indicative Duration of work				1			

Please note that the above timeline is a generic indication of the approximate usual time taken to undertake the activities described for a typical project of this type. The timeline is provided as a generic guide only and is subject to change. Any reliance that you place on this indicative timeline is at your own risk. This indicative timeline does not represent an actual programme of works. Only once discussions are underway with a UK Power Networks' delivery representative can a programme of works be agreed.

Cable Protection

LV Mains, LV Services, 11kV and 20/22kV Tile tape (200mm x 2.5mm)



LV Voltage cable trenches

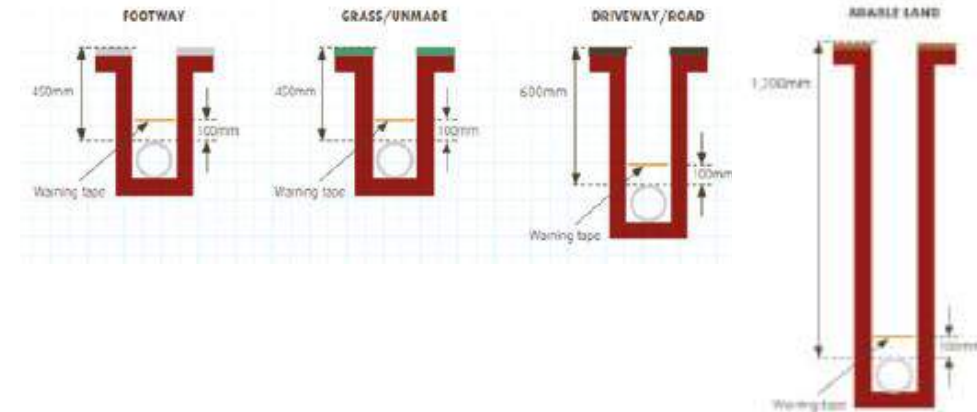
All Low Voltage (LV) cables shall be installed to the following minimum depths, whether they are laid direct or installed in suitable ducts:

Footways, grass verges or private property = 450mm;

Carriageways (including road crossings) = 600mm;

Normal agricultural land (not subject to deep ploughing) = 1050mm;

Agricultural land subject to deep ploughing = 1200mm.



Cable Protection

High Voltage cable trenches

11kV and 20kV Cables:

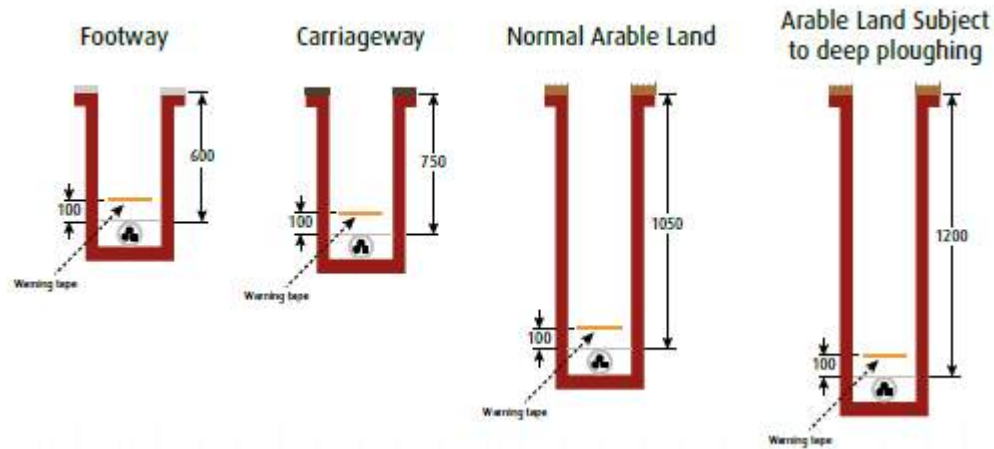
All 11kV and 20kV cables shall be installed to the following minimum depths, whether they are laid direct or installed in suitable ducts:

Footways, grass verges or private property = 600mm.

Carriageways (including road crossings) = 750mm.

Normal agricultural land (not subject to deep ploughing) = 1050mm.

Agricultural land subject to deep ploughing = 1200mm.



Trench Bedding

All cables shall only be laid directly onto the bottom of the trench, if the surface is unlikely to cause damage to the outer sheath. For LV and 11kV cable installations, a sand bedding material needs to be used for the base of a trench, the depth of the trench shall be increased by the appropriate amount to ensure that the required minimum depth of cover is achieved. All bedding layers shall be compacted to a depth of 75mm and shall be installed covering the full width of the trench.

Cable Ducts

Electricity, pilot and telephone cables shall only be installed into electricity cable ducts, complying with EAS 00-0002. New cable ducts shall be black in colour and marked with 'Electric Cable Duct' on two diametrically opposite sides. Cable shall only be installed in ducts that are suitable sized to accommodate them.

125mm Solid Rigiduct 2 metre length (All Services/mains above 100A) Code: RB125X2

125mm Solid Rigiduct 6 metre length (All Services/mains above 100A) Code: RB125X6

32mm Polyduct (Single Phase 100A) Code: PD3237X**BEPE **Available in various lengths

50mm Polyduct (Three Phase 100A) Code: PD5060X**BEPE **Available in various lengths



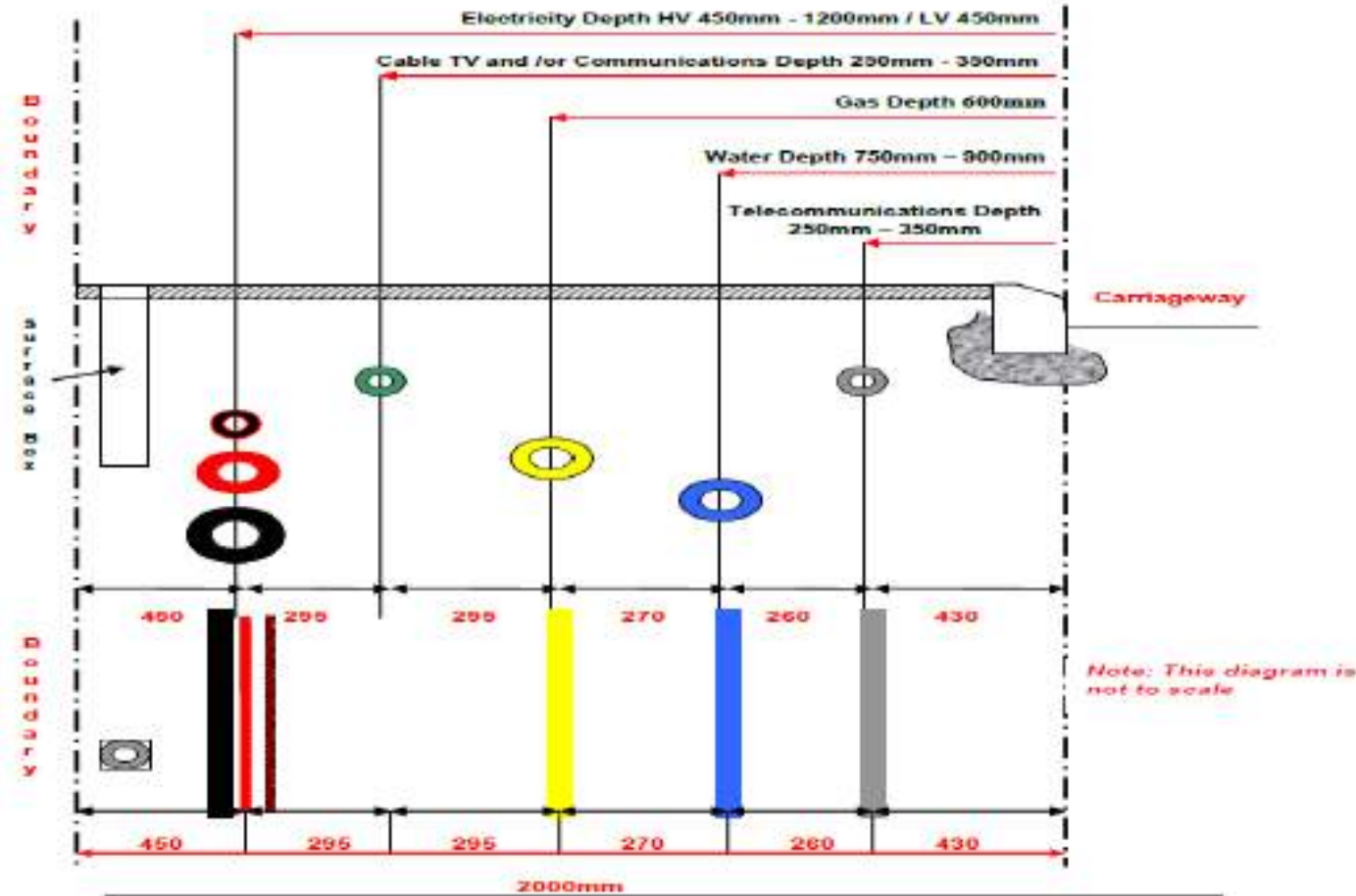
125mm ID x 148mm OD BLACK POLYPIPE LOW VOLTAGE RIDGIDUCT IN 2m & 6m LENGTHS



37mm O/D x 32mm I/D BLACK SERVICE DUCT PRINTED 'ELECTRIC CABLE'



60mm O/D x 50mm I/D BLACK SERVICE DUCT PRINTED 'ELECTRIC CABLE'



Mr. Rajendra Patel
RPS Consulting Services Limited
321, Bradford Street
Birmingham
NW1 9PE

Date: 14 January 2025

Our Ref: 8500318987 / QID 3500204303

Customer Ref:

Dear Mr. Patel

Site Address: Lunce'S Hill, Haywards Heath, RH16 4QT

I am writing to you on behalf of South Eastern Power Networks plc the licensed distributor of electricity for the above address trading as and referred to in the Quote as "UK Power Networks". Thank you for your recent enquiry regarding the above site. I am pleased to be able to provide you with this Quote to carry out the work requested.

The Works will enable the provision of an import capacity of 820.000 kVA,. and a maximum export capacity of 0.00 KW.

Summary of Your Request

The provision of new supplies to a housing development.

UK Power Networks would like to carry out all of the requested work for you. However, other companies can do some or all of the work for you; these are known as Independent Connection Providers (**ICPs**). You can approach NERS accredited ICPs directly, or you can approach an Independent Distribution Network Operator (**IDNO**) to request this work and they will arrange for an ICP to carry out the Contestable Works. To find out more about which ICPs work in our area and what work they can undertake please [click here](#).

To give you as much choice as possible we are able to offer you **the following options** for getting your work done:

How much is it going to cost?		Price excluding VAT	Price including VAT
A	UK Power Networks carries out all of the requested 'contestable' and 'non-contestable' works required for your connection	£438,838.56	£446,211.05
B	UK Power Networks carries out all the 'non-contestable' work and the 'contestable closing joint'. The ICP carries out all other requested 'contestable' work	£75,953.67	£77,229.70
C	UK Power Networks carries out the 'non-contestable' works only. The ICP carries out all of the works classified as 'contestable'	£73,687.07	£74,925.02

A short guide is available to help you understand the three different Prices (options A, B and C). To see this guide please [click here](#).

Provisional Price

I would like to draw to your attention to the provisional nature of the Quote. At the date of issue, the detailed design and/or the procurement process is not complete and the proposed design is dependent on securing Consents and Land Rights that have not yet been obtained from third parties. We will notify you in writing if the Works, the completion date or the Price need to be adjusted once the detailed design and the procurement process is complete and the Consents and Land Rights have been obtained.

Terms and Conditions

The Quote is subject to version 7 (September 2016) of our **Terms and Conditions For Connection and Diversions Works** (the “**Terms and Conditions**”) which you can view [here](#). Alternatively, please let me know if you would like me to send you a copy in the post. **The Terms and Conditions create legally binding obligations and, amongst other things, contain caps and exclusions on UK Power Networks’ liability to you and grounds for variation and termination. Therefore, it is important that you take the time to read and understand them.** They also contain definitions of terms used in this document and in the linked pages on our website, which you may find helpful such as “DNO” and “DNO Works”.

Special Conditions

The Quote is subject to and conditional upon the following conditions:-

- No works shall commence until all consents have been obtained.
- This quote allows for the proposed works to be completed under one phase of works, if this cannot be achieved then a variation will be made chargeable to the customer
- This quote allows for the proposed works to be completed during normal working hours. If the works cannot be completed within this time, and out of hours working is required, any extra work will be chargeable to the customer
- Where access to substation doors is likely to be compromised by parking vehicles, preventive measures should be installed, ideally in the form of fixed or removable bollards. Alternatively, protection may be afforded by the creation of a locally raised kerb (220mm high) in front of the doors. as per section 6.1 of EDS 07-3102.
- This quote is provisional on the basis that the service cable length and routes will be agreed post quote acceptance and payment. If additional cables are required, then a variation will be raised and made 100% chargeable. Service cable length per house shall not exceed 43m.

Compliance with Engineering Recommendations P28, P29 and G5/5

If this Quote provides for export capacity (that may include install solar panels or battery storage) or import capacity with disturbing loads (that may include electric vehicle charging), you will be responsible for compliance with Engineering Recommendations P28, P29 and G5/5. More information about these Recommendations can be found [here](#).

You may be asked to demonstrate compliance with Engineering Recommendations P28, P29 and/or G5/5.

UK Power Networks may refuse to allow connection of generation to our network where compliance cannot be demonstrated. Where the installation needs to be Witness Tested compliance reports will need to be provided in advance of booking a date for the Witness Test to be undertaken.

When can you expect your electricity connection?

Once you have accepted the Quote we will call you to discuss a programme of Works. Subject to the terms of the Quote, the DNO Works referred to in the Quote will be completed on or before 13 July 2026.

We will try to meet your requested dates wherever possible but the completion date will be dependent on: The date that the Quote is accepted;

- How much of the Works you wish UK Power Networks to complete;
- Any further discussions we may have with you regarding the programming of the DNO Works;
- The completion of work by other people or companies that must be done before we can complete our DNO Works;
- Approval of your design and programme for the Contestable Works by UK Power Networks (if applicable);
- Obtaining full access to the Site;

- UK Power Networks obtaining all necessary Consents and Land Rights in a timely manner;
- Any delay to the Works due to: unplanned outages (i.e. breakdown or failure of electric power); or availability of planned outages (i.e. temporary suspension or withdrawal of electric power) to carry out certain works on UK Power Networks' distribution system;
- Completion of all cable route feasibility studies;
- All conditions precedent being met by you and/or your appointed ICP where applicable;
- Your Site being ready for energisation before the target energisation date; and
- Energisation falling suitably within the outage period.

Indicative mobilisation and delivery timeline

Please find attached a generic indicative mobilisation and delivery timeline for a typical project of this type. This provides a generic indication of the approximate usual time taken to undertake the activities described in the timeline. This timeline is provided as a generic guide only and is subject to change so you should not consider it as the actual programme of works. Any reliance that you place on this indicative timeline is at your own risk.

Interactivity

UK Power Networks has not received a request from any other customer for connections to the same part of our Distribution System, but to find out what happens if they do, please [click here](#).

Variation of Works

If there is a variation to the scope of the Works where the Price is expected to increase, then an additional payment will be due. Your on-site representative, who must have your authorisation to agree variation to the Works, will be asked to sign a variation form or send an email agreeing to this variation. If this is not received, then this could result in a delay to the Works and further charges due to remobilising of resources to complete the Works.

Please note that subject to any variations and changes to the Price as a result of other conditions set out in the Quote, the Price as identified in the Quote will remain valid for 12 months from the date of acceptance of the Quote. As stated in clause 6.2.3 of the Terms and Conditions, any DNO Works delivered after this date may be subject to a variation in Price reflecting any increase in Costs that will be incurred by UK Power Networks to deliver the DNO Works.

What you need to do next

Before you decide to proceed it is very important that you take note of our **Terms and Conditions**, any **special conditions** detailed above as well as the details in **Your Information Pack** including the information contained within the hyperlinked text, all of which constitute the **Quote**.

If you would like to accept the Quote you will need to ensure that the requested payment is in UK Power Networks' nominated bank account in full and cleared funds and that we have received your signed Acceptance Form from section 5 below by 5pm on 13 July 2025.

If you would like UK Power Networks to carry out all of the Contestable Works and Non-Contestable Works please accept option A. If you would prefer to use an ICP to carry out the Contestable Work (or an IDNO to arrange for an ICP to carry out the Contestable Works), you can pass the Quote to them and they can accept either option B or option C. Alternatively, you can accept option B or option C yourself, but you will need to ensure that your appointed ICP or IDNO understands what they must do, and what UK Power Networks will do for these options. **You can only accept one option.**

Do you need more information?

If you have any questions about the Quote or need more information, please do not hesitate to contact me.

Yours sincerely



Gideon Nchubo

Mobile: 07709 513 965

Email: Gideon.Nchubo@ukpowernetworks.co.uk



To download your free safety leaflets and resources visit
[UK Power Networks - Safety Page](#)

Your Information Pack

The following pack provides all of the information you should need to successfully complete your electrical connection for the work you have been quoted. Please pay particular attention to the information that is specific to your project.

Do not hesitate to contact me should you require any further support.

- Section 1** The Scope of Works
- Section 2** Cost Breakdown
- Section 3** Your Responsibilities
- Section 4** Information To Help You As You Plan For Your Work
- Section 5** Acceptance Form To Proceed With The Works

Section 1 Scope of Works

Please read the details in this section in conjunction with the customer proposal plan (referred to in the Drawing Schedule in Section 4).

A	UK Power Networks will carry out all the Contestable and Non-Contestable Works.
B	UK Power Networks will carry out the Contestable closing joint and Non-Contestable Works. You will need to arrange for the completion of the remaining Contestable Works by an accredited ICP. If option B is accepted, your appointed ICP will be responsible for the production of all detailed constructible designs, which you must submit to UK Power Networks for review and approval prior to the commencement of any Contestable Works. No charge will be made by UK Power Networks for this service.
C	UK Power Networks will carry out all the Non-Contestable Works only. You will need to arrange for the completion of the Contestable Works by an accredited ICP. If option C is accepted, your appointed ICP will be responsible for the production of all detailed constructible designs, which you must submit to UK Power Networks for review and approval prior to the commencement of any Contestable Works. No charge will be made by UK Power Networks for this service.

Your Connections

The table below provides a summary of the technical characteristics and the connection types you have requested:

The below are all fed from one service via a BNO (Building Network Operator) arrangement:

Type of Property	No. of MPANs	Metering Voltage	Phase Type	Import Capacity (kVA)	Export Capacity (kW)
Commercial	1	400V	Three Phase, 50HZ	69	
Meter Position	Service Cable	Fuse Size	Earthing	Metering	
External Meter box	35mm2 Multicore	100A to BS1361	PME(TN-C-S)	Whole Current	

Type of Property	No. of MPANs	Metering Voltage	Phase Type	Import Capacity (kVA)	Export Capacity (kW)
House	127	230V	Single Phase, 50HZ	751	
Meter Position	Service Cable	Fuse Size	Earthing	Metering	
External Meter box	2c 35mm2 c/c	100A to BS1361	PME(TN-C-S)	Whole Current	

Phases of work

Our delivery time scale of the DNO Works may be subject to our performance standards, as detailed in 'Our Connections Standards of Performance' leaflet that can be found [here](#). The standards make reference to the DNO Works in totality, including the delivery of the work that you may request to be completed in discrete parts (which are referred to as phases). The Quote covers ONE phase(s) of work.

Section 2 Cost Breakdown

Totals

Option	A	B	C
Net Price (Excluding VAT)	£438,838.56	£75,953.67	£73,687.07

Breakdown of Costs

Description of CONTESTABLE WORK that is included in option	A	only
Work involved	Net price (£)	
LV Underground Mains		
- LV mains service straight joint on three phase service cable - Supply only of three phase 35mm LV service cable - Supply & terminate 3ph 100A Cut Out (not including joint) - Install LV cable to duct or cable tray - Distribution unit termination (LV Board/Cabinet) - Supply only of 300mm LV waveform mains cable - LV Mains straight joint of a 95-300mm cable to a 240-300mm main. - LV Mains branch joint of a 95-300mm cable to a 240-300mm main. - LV waveform mains pot end & installation of earth pin. - LV mains service branch joint on single phase service cable. - Supply only of single phase 35mm LV service cable - Supply & terminate 1ph 100A Cut Out (not including joint) - Additional labour hours for an LV jointing team (normal working hours)	£218,619.72	
HV Plant and Switchgear		
300mm HV indoor end box termination - Establish a 1000kVA unit substation within a GRP Housing. Includes 1000kVA transformer, Ring Main Unit, 5-way LV cabinet, RTU, internal small power/lighting and substation ancillaries. Excludes GRP, earthing, civil works and HV/LV jointing. - Transport of plant in normal weekday working hours - Supply and fit of a green GRP substation housing.	£85,352.16	
HV Substation Civils		
- Civils groundworks costs - Sand & cap/shingle substation	£3,937.33	
HV Underground Mains		
- Install HV duct with no further trench work - Excavate, lay cable & reinstate 11kV trench in unmade ground. - Excavate, lay cable & reinstate 11kV trench in a category 3 or 4 carriageway. - Install additional 11kV cable, widen unmade trench - Civils groundwork study - Install 11kV cable to duct or cable tray - Excavate & Reinstate 11kV joint hole in a category 3 or 4 carriageway. - Excavate an extended 11kV joint hole in a category 3 or 4 carriageway. - Reinstate an extended 11kV joint hole in a category 3 or 4 carriageway. - Traffic Management costs - Supply only of 11kV 300mm aluminium Triplex mains cable	£54,975.68	
TOTAL	£362,884.89	

Description of CONTESTABLE FINAL CLOSING JOINT WORK that is included in option	A	and in option	B	
Work involved				Net price (£)
HV Underground Mains				
11kV 185mm to 300mm Triplex straight joint				£2,266.60
TOTAL				£2,266.60

Description of NON-CONTESTABLE WORK that is included in option	A	and in option	B	and in option	C
Work involved					Net price (£)
HV Plant and Switchgear					
- Labour for an Authorised Person/Senior Authorised Person in normal working hours. - Inspection of substation civil works - Commissioning of a Remote Terminal Unit (RTU) - Legal fees for the arrangement of an Easement in relation to UKPN assets. - Legal fees for a Freehold/Leasehold for the establishment of a substation in a new physical location. 11kV outage associated with the provision of an 11kV substation					£13,341.07
Transactional Charges					
Assessment & Design Charges					£1,675.00
Other charges					
ECCR Charges					£58,671.00
TOTAL					£73,687.07

Domestic Reverse Charge VAT Rate

You may be aware of a VAT rate, effective from 1st March 2021, that is referred to as “Domestic Reverse Charge for Construction Services”. I would like to provide you with some clarification about how the Quote is affected.

Section 18 of the HMRC Guidance, which explains the reverse charge treatment for utilities states that “Services provided by utility businesses which do not fall within the domestic reverse charge include the:

- provision of a connection to a utility network, or diversionary works to allow the relocation of the network
- development and construction of a private network to be owned by the utility and leased or sold to the customer
- installation of a boiler (and ancillary supplies)”

You can see the Government’s guidance in full [here](#). So in summary, although UK Power Networks is registered under the Construction Industry Scheme (CIS), the provision of connection services to our customers is not regarded as construction services because the work is performed on our own assets. Consequently, there will be no change to the way in which we determine how VAT is applied to this job.

Provision of Service to Build IDNO Networks and VAT

The VAT Rate applied to this job is applicable where UK Power Networks completes all the work (Option A). If you wish to accept Option B or C (where offered) and wish to approach an IDNO to arrange for the Contestable Works to be undertaken (see summary on page 1) the VAT Rate may change and we will issue an invoice to you for the outstanding VAT.

The Electricity (Connection Charges) Regulations 2017 (Second Comer)

The Price includes a contribution for the cost of assets installed to provide a previous connection that your connection will make use of; and that is subject to The Electricity (Connection Charges) Regulations 2017. Under these Regulations, this element of the Price is payable only after assets required for the provision of your connection have been connected to the existing distribution system. Consequently, the Quote includes a schedule of staged payments, with the Second Comer element shown as a separate payment in the schedule. We will send you an invoice for this amount once the assets are connected.

Please note that payment is required in full, in advance of the work being programmed.

Section 3 Your Responsibilities

This section provides information about the work that you are responsible for should you accept the Quote.

We have made all of our general information about your responsibilities available in our Knowledge Centre on our internet site at www.ukpowernetworks.co.uk. Links to each of the relevant articles are in the table below.

Please let me know if you think we can improve the information we have provided.

Job Specific Responsibilities

Subject	Link to our Knowledge Library
On-site trenches and cable route	Section 3.1 Click here
Ducts	Section 3.2 Click here
Land rights required from You in connection with land within Your occupation, ownership or control (time to complete the legal work between Your solicitors and UK Power Networks' solicitors associated with acquiring substation sites and easements)	Section 3.19 Click here
Land rights required from You in connection with land within Your occupation, ownership or control (the freehold/leasehold of the substation site)	Section 3.20 Click here
Land rights required from You in connection with land within Your occupation, ownership or control (easements for the underground cables)	Section 3.21 Click here
Land rights required from You in connection with land within Your occupation, ownership or control (termed wayleave for the underground cables)	Section 3.22 Click here

Generic Responsibilities Applicable to all Quotes

Subject	Link to our Knowledge Library
Construction (Design & Management) Regulations 2015 (CDM) ¹ _{SEP}	Section 3.25 Click here
Appoint an electricity supplier	Section 3.26 Click here
Works to be undertaken by the ICP/IDNO if UK Power Networks is undertaking the non-contestable Works only	Section 3.27 Click here
Land rights for option B or C - where UK Power Networks is undertaking the non-contestable Works only	Section 3.28 Click here

Section 4 Information to Help You Plan For Your Work

Drawing Schedule

The table below shows a summary of the standard drawings that may be useful for the Quote, along with hyperlinks to the drawings that are currently applicable. Our drawings are revised periodically so the links in the table below may not work in the future if the drawings are superseded. However the latest versions of all of our standard drawings can be found [here](#). If you have not used our G81 web pages before you will be asked to register your credentials for future logins and updates.

Drawing Number	Drawing Description
UKPN 8500318987-1-500	Customer proposal plan
ECS 02-0019	LV/HV/EHV cable trench details View
EDS 07-3102_01	Unit or Padmount substation in GRP enclosure View
EDS 08-2110-01	100A Single-phase Cut-out in Meter Box View
EDS 08-2110-04	100A Three-phase Cut-out in Meter Box View
Substation drawing	This will be provided separately at a later date (after the Quote)

Job Specific Information

Subject	Link to our Knowledge Library
Earth Fault Loop Impedance (EFLI)	Section 4.4 Click here
Cables between UK Power Networks and Customer installations up to 400A	Section 4.5 Click here
Private generation	Section 4.6 Click here
Electricity (Connection Charges) Regulations 2002 /2017 (Second Comer)	Section 4.7 Click here
Interactive process	Section 4.10 Click here

Generic Information Applicable to all Quotes

Subject	Link to our Knowledge Library
Information common to all Quotes	Section 4.1 Click here

If you are unhappy with our service please follow our Complaints Procedure Specific to Commercial and Industrial Projects which can be found [here](#). This document details your right to contact Ofgem for a formal determination if we have been unable to resolve the matter to your satisfaction.

Section 5 Acceptance Form

Job Reference: 8500318987 / 3500204303

Site Address: Lunce'S Hill / HAYWARDS HEATH RH16 4QT

Please return your completed form by post or email:

UK Power Networks (Operations) Ltd
Connections Finance, 3rd Floor
Energy House
Hazelwick Avenue
Three Bridges, Crawley, RH10 1EX

Email: ConnectionAcceptance@ukpowernetworks.co.uk

Please indicate which option you accept:

	Please tick one only	Price excluding VAT	Price including VAT
A UK Power Networks carries out all of the requested 'contestable' and 'non-contestable' works required for your connection	☐	£438,838.56	£446,211.05
B UK Power Networks carries out all the 'non-contestable' work and the 'contestable closing joint'. The ICP carries out all other requested 'contestable' work	☐	£75,953.67	£77,229.70
C UK Power Networks carries out the 'non-contestable' works only. The ICP carries out all of the works classified as 'contestable'	☐	£73,687.07	£74,925.02

Payment Profile

I understand that the Price, including VAT, must be paid in full to accept the Quote. I also understand that where VAT has been charged a Tax Invoice for the Price will be issued by UK Power Networks on receipt of payment.

Please indicate your method of payment:



Online payment portal QR code

☐ Online

Scan the **QR code** to access UK Power Networks easy to use 24/7 self-service online payment portal or visit onlinepayment.ukpowernetworks.co.uk. We recommend our customers to use this payment option as a preferred way of paying quotes online.

☐ Phone

A dedicated payment line **0808 175 2600** available 24/7 to accept credit/debit card payments over the phone, or please call **0203 282 0610** to speak to one of UK Power Networks contacts. We accept all major credit and debit cards, apart from American Express/Diners Club.

☐ Cheque

Please make cheques payable to **UK Power Networks (Operations) Ltd** and **put our reference number on the back**.

☐ BACS/CHAPS

Account: HSBC Bank Plc **Sort Code:** 40 05 30 **Account Number:** 02302934
UK Power Networks Ref. Number 3500204303
(Please include this reference so we know which job is being paid):

The Invoice Address	Your Site Contact
Name / Company name:	Name / Company name:
Contact name:	Contact name:
Address:	Address:
Telephone:	Telephone:
Email:	Email:

Your Acceptance

I accept UK Power Networks' Quote for carrying out the DNO Works in accordance with the option I have chosen overleaf.

To accept the Quote, the signed Acceptance Form and payment in cleared funds must reach UK Power Networks by 5pm on 09 July 2025. Acceptance Forms and payments received after this date may be returned and you will need to request a new Quote.

Signed:	Date:
Print name:	
Agent acting on behalf of:	
Telephone:	
Email:	

Job Reference: 8500318987 / 3500204303

Acceptance Form Part 2

Land Rights

If you are appointing a Solicitor to complete any legal work associated with acquiring substation sites and easements work, please provide UK Power Networks with their details by completing the table below.

Please also provide us with the name and address of the owner of any affected land.

Solicitor's Information

Name / Company name:

Contact name:

Address:

Telephone:

Email:

Land Owner's Information

Name / Company name:

Contact name:

Address:

Telephone:

Email:

Job Reference: 8500318987 / 3500204303



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

Grid Ref: TQ 34055 18334

Scale: 1:500
(When Printed at A3)

Plotted on: 09/01/2025

Plotted by: Gideon Nkhuho

UK Power Networks

Plan Provision

CHECK IT OUT BEFORE YOU DO IT OR
CALL 0800 050 0965
EMERGENCY - if you damage a cable or live
Power 0800 050 3366 (please URGENTLY)

ALWAYS LOOK UP BEFORE YOU
START WORK!
Refer to HSE guidance note GS6

Map produced at 1:2500 scale are LV Geo-Schematic which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

Contact UK Power Networks on 0800 050 5886 for details of EHV Cable routes before commencing work.

VISITING AN OPEN POINT? Please mark on this plan all locations visited and open points as found, then return equipment to its original position and shall remain the exclusive property of (c) South Eastern Power Networks plc or London Power Networks plc each being a distribution licensee under section 61(c)(i) of the Electricity Act 1989 for the relevant distribution services area as that term is defined in such licensee's distribution licence. All rights in such data reserved.

Cable Protection

LV Mains, LV Services, 11kV and 20/22kV Tile tape (200mm x 2.5mm)



LV Voltage cable trenches

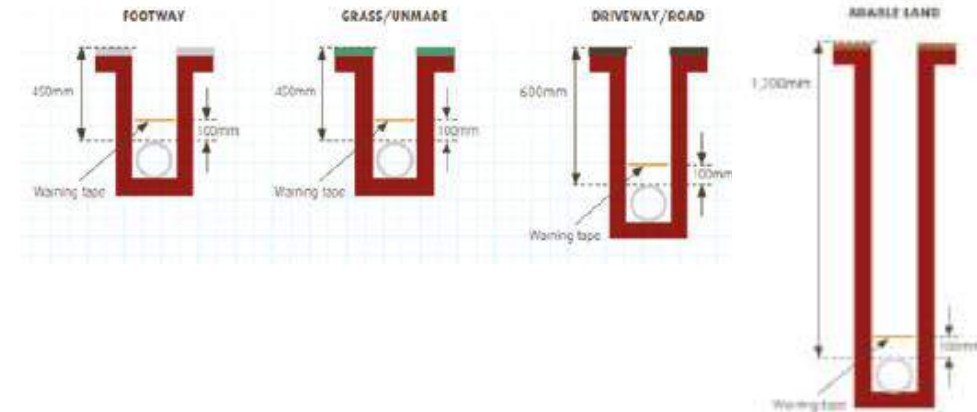
All Low Voltage (LV) cables shall be installed to the following minimum depths, whether they are laid direct or installed in suitable ducts:

Footways, grass verges or private property = 450mm;

Carriageways (including road crossings) = 600mm;

Normal agricultural land (not subject to deep ploughing) = 1050mm;

Agricultural land subject to deep ploughing = 1200mm.



Cable Protection

High Voltage cable trenches

11kV and 20kV Cables:

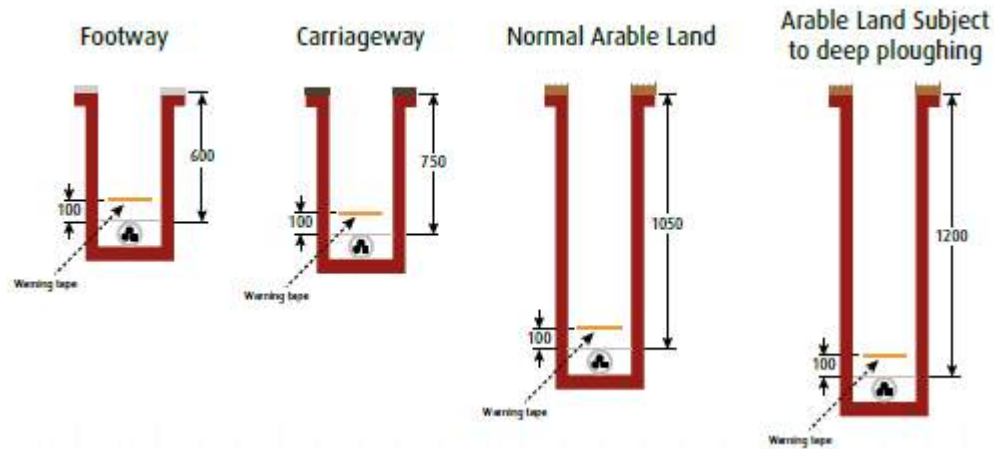
All 11kV and 20kV cables shall be installed to the following minimum depths, whether they are laid direct or installed in suitable ducts:

Footways, grass verges or private property = 600mm.

Carriageways (including road crossings) = 750mm.

Normal agricultural land (not subject to deep ploughing) = 1050mm.

Agricultural land subject to deep ploughing = 1200mm.



Trench Bedding

All cables shall only be laid directly onto the bottom of the trench, if the surface is unlikely to cause damage to the outer sheath. For LV and 11kV cable installations, a sand bedding material needs to be used for the base of a trench, the depth of the trench shall be increased by the appropriate amount to ensure that the required minimum depth of cover is achieved. All bedding layers shall be compacted to a depth of 75mm and shall be installed covering the full width of the trench.

Cable Ducts

Electricity, pilot and telephone cables shall only be installed into electricity cable ducts, complying with EAS 00-0002. New cable ducts shall be black in colour and marked with 'Electric Cable Duct' on two diametrically opposite sides. Cable shall only be installed in ducts that are suitable sized to accommodate them.

125mm Solid Rigiduct 2 metre length (All Services/mains above 100A) Code: RB125X2

125mm Solid Rigiduct 6 metre length (All Services/mains above 100A) Code: RB125X6

32mm Polyduct (Single Phase 100A) Code: PD3237X**BEPE **Available in various lengths

50mm Polyduct (Three Phase 100A) Code: PD5060X**BEPE **Available in various lengths



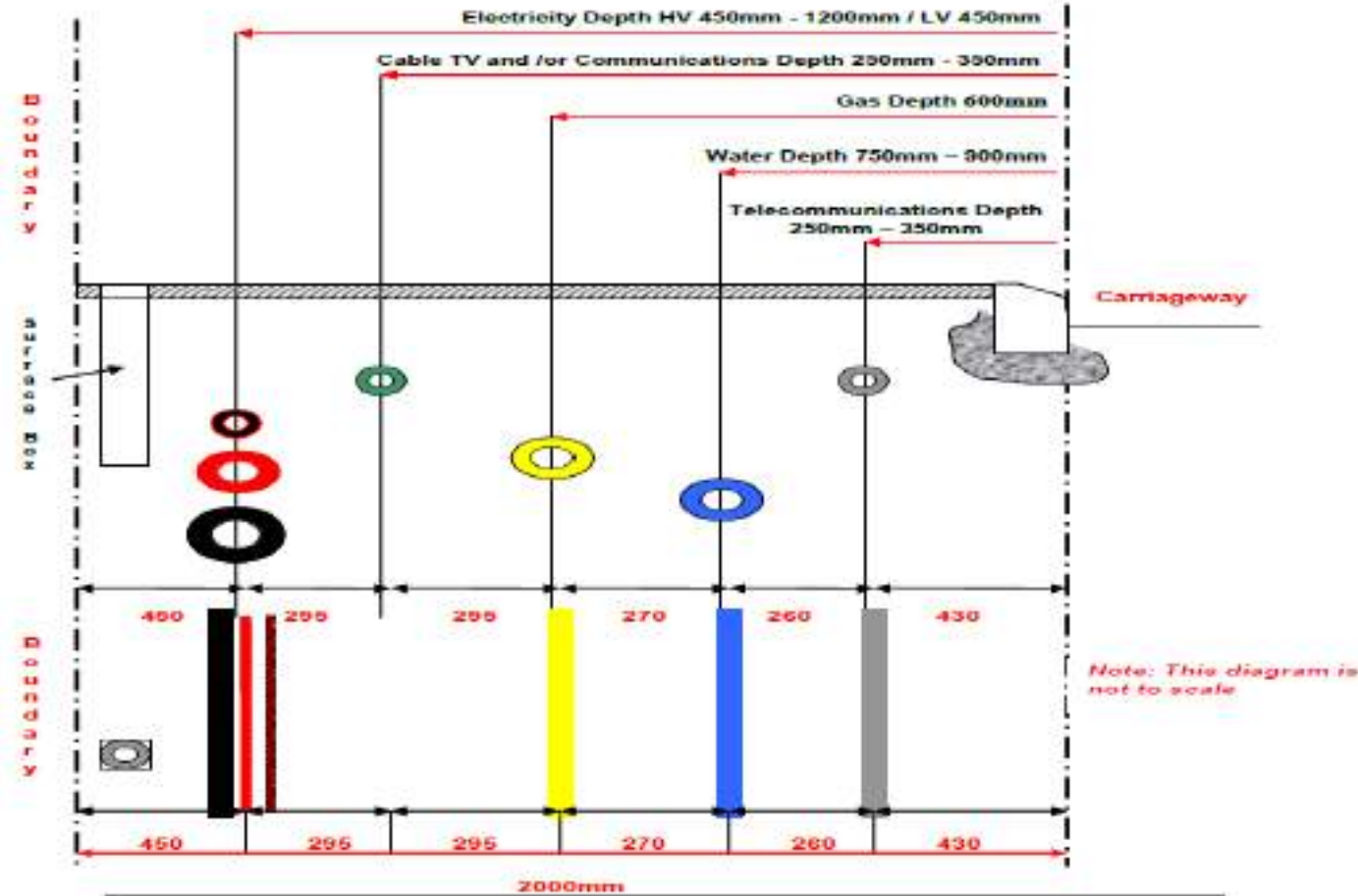
125mm ID x 148mm OD BLACK POLYPIPE LOW VOLTAGE RIDGIDUCT IN 2m & 6m LENGTHS



37mm O/D x 32mm I/D BLACK SERVICE DUCT PRINTED 'ELECTRIC CABLE'

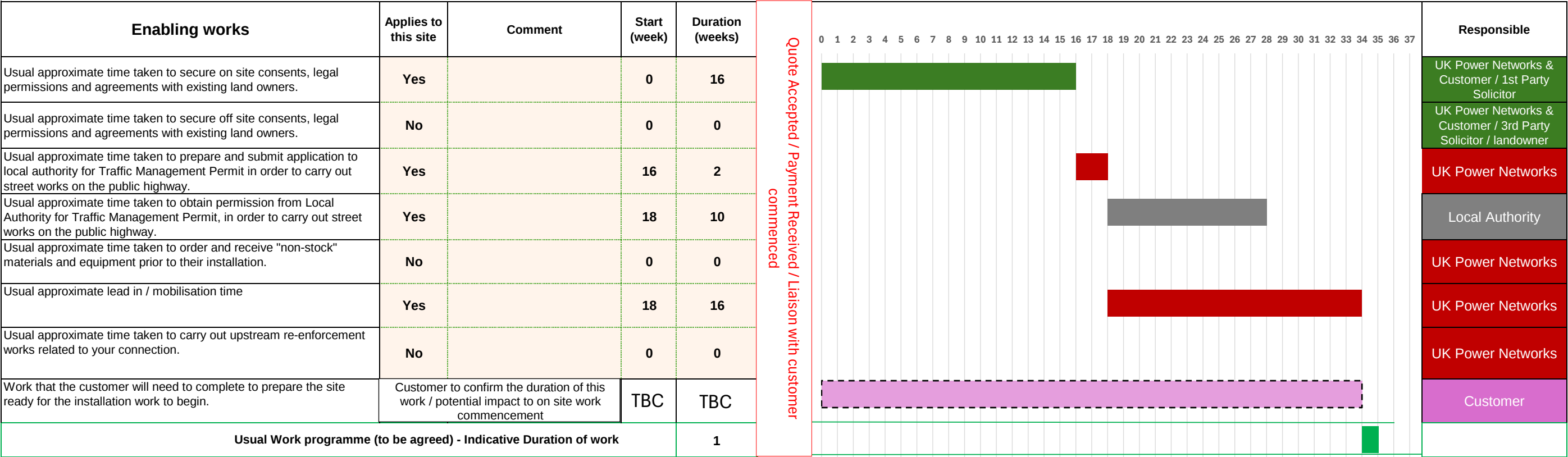


60mm O/D x 50mm I/D BLACK SERVICE DUCT PRINTED 'ELECTRIC CABLE'



GENERIC INDICATIVE MOBILISATION & DELIVERY TIMELINE

Quote reference 8500318987



Please note that the above timeline is a generic indication of the approximate usual time taken to undertake the activities described for a typical project of this type. The timeline is provided as a generic guide only and is subject to change. Any reliance that you place on this indicative timeline is at your own risk. This indicative timeline does not represent an actual programme of works. Only once discussions are underway with a UK Power Networks' delivery representative can a programme of works be agreed.

Patel, Rajendra

From: O'Donnell, Danny <Danny.O'Donnell@southeastwater.co.uk>
Sent: 23 September 2024 08:50
To: rajendra.patel@rpsgroup.com
Subject: NARS 25747 - Land at Lunce's Hill, Lunce's Hill, Haywards Heath, Sussex
Attachments: NARS 25747 Budget23.09.2024.pdf; NARS 25747 Site Plan.pdf

Good morning Rajendra,

I trust you're.

Please see the attached pre-development enquiry NARS 25747 - Land at Lunce's Hill, Lunce's Hill, Haywards Heath, Sussex.

Mains to be connected to 200mm DI main on Fox Hill.

Kind Regards,
Danny O'Donnell
Developer Services Coordinator
Service Management

DDI +44 (0)1634 562139
Danny.O'Donnell@southeastwater.co.uk / www.southeastwater.co.uk



South East Water, Rocfort Road, Snodland, Kent, ME6 5AH

Go paperless and view your bills 24/7 when you sign up to manage your account online. Go to <https://my.southeastwater.co.uk> and register today!

For details of how we manage your personal information or to exercise any of your rights over it please see www.southeastwater.co.uk/privacy.

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It shall be understood by the recipient(s) that conclusions, opinions and other information contained in the above e-mail not relating to the official scope of business of South East Water Ltd shall be deemed not to have been given or endorsed by South East Water Ltd.

South East Water Limited
Registered Office: Rocfort Road, Snodland, Kent, ME6 5AH, UK Place of Registration: England Registration Number: 2679874

23 September 2024

Rajendra Patel - RPS Consulting Services Limited
 RPS Consulting Services Limited
 (4th Floor), 1 Newhall Street
 Birmingham
 West Midlands
 B3 3NH

Dear Rajendra Patel

Thank you for contacting us about your proposed Budget enquiry at Land at Lunce's Hill, Lunce's Hill, Haywards Heath, Sussex

Thank you for your letter requesting provision of water mains at the above site. I enclose a plan showing details of the Company's mains.

No offsite reinforcement works are required in conjunction with this enquiry but any non-standard flow rate above 0.27 l/sec, is to be flow restricted to the designed flow rate. The flow management is required to provide the customer with their requested flow rate and protect the Company existing customer if in the event the site demand increases. For compliance, SEW are required to record any flow management installed in conjunction with domestic supplies on either GIS / Billing system or both, please ensure that this is adhered to.

Please be aware that under the new pricing structure, all reinforcement works will now be subsidised through infrastructure charges. Offsite reinforcement works are no longer site specific. All below costs are estimated.

SEW does not guarantee pressure to the upper floors of properties & flats.

For Budget Purposes:

The on-site mains would be expected to cost: **£135.00 per metre**

No. of Standard Connections	Connection Type	Approximate Rate	Sub Total
135	A-Type	£410.00	£55,350.00
Standard Infrastructure Charge	Income offset	Infra Rate	Sub Total
135	£81,675.00	£633.00	£3,780.00
		Aprox. Total	£59,130.00

The budget figures quoted above have been prepared on the assumptions that there are no Health & Safety hazards arising from either the present site conditions or any which may arise as a result of activities of the developer, his agents or contractors.

South East Water ("SEW") offers two options to developers for the installation of water mains. In brief, the options are as follows:

I. The company offer based on a discount being applied to the total cost of the scheme. This is derived by comparing the annual revenue from the new service connections and the annual repayment of a notional loan over a 12 year period to calculate the deficit. The corresponding lump sum then has the discount applied in accordance with the methodology issued by Ofwat under charging rules for new connection services (English Undertakers)

II. The Self Lay Option is divided into two sections: Non-Contestable is what you are required to pay SEW initially. This cost relates to non-contestable activities (i.e. those items of work that for reasons of safeguarding our water quality, only South East Water or their approved contractor may undertake). Details of Self Lay are available at: <http://www.ofwat.gov.uk/consumerissues/selflay> Income Offset - On satisfactory handover of the self-laid mains, an Asset Payment will be paid to you. If you choose to self-lay the mains, this will need to be in accordance with the SEW Self Lay Policy, using an accredited contractor, under South East Water supervision.

We would also be grateful to receive your detailed plans of the proposed development and the relevant reports and information required to enable us to prepare a firm quotation for the above option(s).

For the Company to provide firm figures at the earliest opportunity please supply the items listed in our "Developer Services – Information required for provision of Water Services".

The availability of a soils report to establish the presence or otherwise of contaminated land is most important. The report must be based on a site investigation carried out in accordance with British Standard Institution BS10175:2001 Investigation of Potentially Contaminated Sites - Code of Practice and in particular should include any potential risk of petroleum hydrocarbons.

In addition the specification proposed for the internal plumbing system could have relevance for the pipework design and your early confirmation of this information would be of great assistance.

If you have any questions or require clarification regarding this letter please feel free to call us.

A firm site layout: scale 1: 500, which identifies:

- i. the extent of the land in the developer's ownership
- ii. the individual plot numbers + Bin Store / Landlord Supplies
- iii. the service entry positions for each plot + Bin Store / Landlord Supplies

(Please note: Water for Domestic, Non Domestic (includes Bin Store / Landlord) and water for Fire fighting purposes will all be metered separately)

- iv. the extent of the area proposed for adoption by the Highway Authority
- v. any designated service strips

It is preferred that you supply an electronic version of your builder's plan, ideally in dwg format. This can be received via CD or by our email address on the top right hand corner of your letter.

The plan must include the proposed development footprint along with all details as previously stated, as well as a section of Ordnance Survey background for the area upon which it is located. The background must be substantial and varied enough, dependant upon its location being urban or rural, to include either surrounding field, fence and road lines, if possible buildings as well which then may be used as location reference points.

An Ordnance Survey grid reference for the site location would also be of help.

All plans that are submitted must be checked that an XREF documents are either imported into the DWG as independent layers or all XREF drawings or files are also included in the submission for mains to be designed and an estimation produced.

3. A Programme of Works and plan identifying any phasing with number of properties associated with any phase of the site and house build rate per year.

4. A Soil Investigation in accordance with British Standard Institution BS10175:2001 Investigation of Potentially Contaminated Sites - Code of Practice. **(In particular the soils investigation should include any potential risk of petroleum hydrocarbons)**

5. Details of any consultation with all known parties on archaeological and environmental issues

6. Type of Hot System installation, i.e. vented or unvented systems

7. Details of the Land owners, together with their Solicitors details, applicable for any Company asset to be installed in non-Highway Authority land.

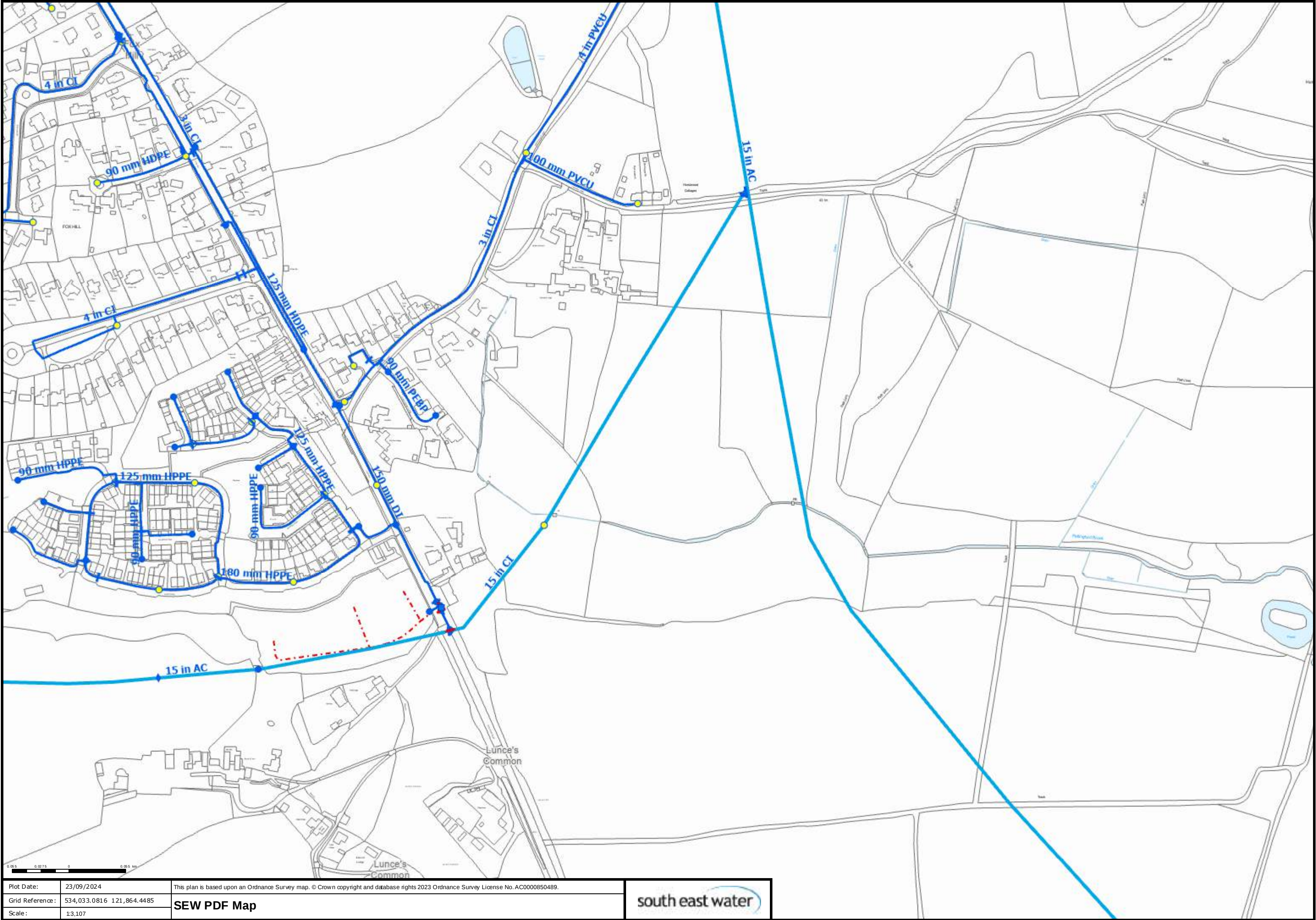
8. Confirmation of the required flow rate in litres per second, plus completed fittings list, for any nonstandard connection with a flow rate of more than one cubic meter per hour.

9. Should there be any requirement to install sprinkler systems, hose reels or fire-fighting equipment within the new units, please confirm the required flow rate for the firefighting supply so as to enable the effects on design to be assessed and the relevant quotation to be provided. For your information, current Company policy does not permit the cross connection of water for domestic and fire-fighting /non-domestic use therefore should the properties require a supply for firefighting purposes it will be necessary to gain independent metered connections to our main to individually supply the separate elements.

Yours Sincerely

Jason Bennett
Developer Services Coordinator
South East Water Ltd

South East Water Ltd Registered in England No. 2679874
Registered Office: Rocfort Road, Snodland, Kent ME6 5AH





2 October 2024

Our Ref: 2635711

Your Ref: 794-DES-ARC-30465

SGN Connections
St Lawrence House
Station Approach
Horley
Surrey
RH6 9HJ

Rajendra Patel
RPS Consulting Services
1 Newhall Street
Birmingham
West Midlands
B3 3NH

Customer Service **0800 912 1700***

Dear **RPS Consulting Services**

New connections at Land at Lunce's Hill, Haywards Heath, West Sussex, RH16 4QT

Thank you for choosing us to give you a budget indication for new connections at the above site, and please find our detailed quote below.

Work to be carried out

SGN Connections to install appropriately sized gas infrastructure to a suitable location to feed 125 x domestic properties and 1 x non-domestic property.

SGN Connections to carry out all the necessary excavation and reinstatement work in public and within the site boundary.

No meter works are included.

SGN to supply & install suitable meter housing.

Your budget indication is £146,000.00 (inc VAT charged at 20% for non-dom and 0% for domestic)

Please note that this figure is a budget indication only, it is based upon an hourly load of 7670 kW and an annual quantity of 1,587,500 kWh along with any other information you've given us, and doesn't represent an offer to carry out the work.

To ensure that the existing gas infrastructure can manage your new gas load, Southern Gas Networks will need to run further analysis upon acceptance of this quotation (Security of Supply Check). If the existing infrastructure requires reinforcing to accommodate your load, then this will incur time delays to the installation of your gas supply. Any reinforcement costs will be met by SGN.

Please note that we will need to do design study upon request of a Firm Quotation and there is a charge for this design study, which we will contact you where required.

Please note that this budget indication doesn't allow for any diversion of our existing infrastructure if we find it's necessary. You can get further detail on this by calling SGN Diversions/Isolations on 0800 912 1722.



If you have any further questions, please feel free to contact me on the number at the top of this letter.

Yours sincerely

Jon White
Design & Quote Team (Southern)

* All calls are recorded and may be monitored

APPENDIX 4 – UK POWER NETWORKS

Our Ref: 34590289 Your Ref: 230231/YG

Tuesday, 03 September 2024

Ben Evans
The Hub Aztec West
Almondsbury
BST
BS32 4RZ

Dear Ben Evans

Thank you for contacting us regarding UK Power Networks equipment at the above site. I have enclosed a copy of our records which show the electrical lines and/or electrical plant. I hope you find the information useful.

I have also enclosed a fact sheet which contains important information regarding the use of our plans and working around our equipment. Safety around our equipment is our number one priority so please ensure you have completed all workplace risk assessments before you begin any works.

Should your excavation affect our Extra High Voltage equipment (6.6 KV, 22 KV, 33 KV or 132 KV), please contact us to obtain a copy of the primary route drawings and associated cross sections.

If you have any further queries do not hesitate to contact us.

Plan Provision
0800 056 5866



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

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

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

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

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

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



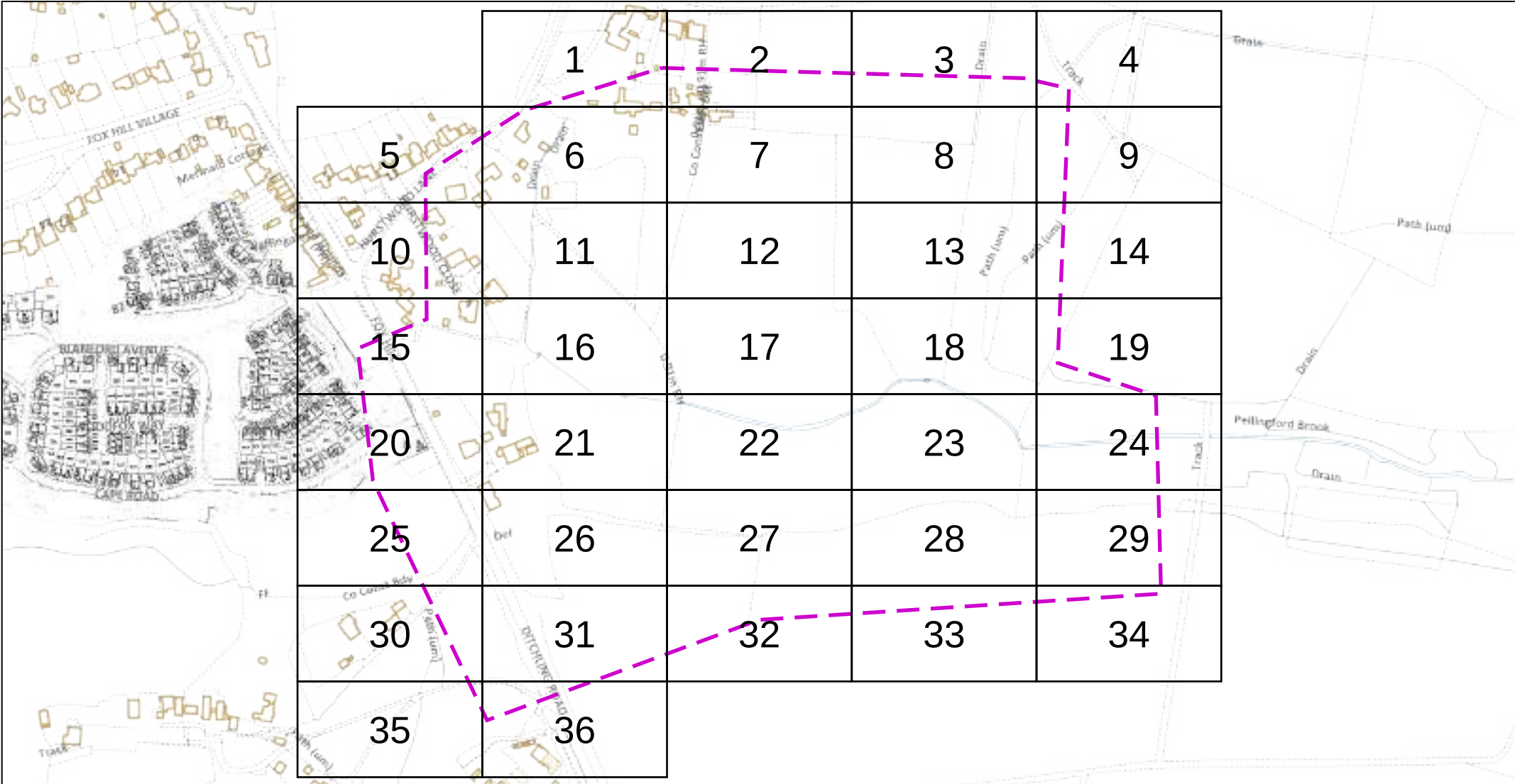
- 9 Any work near to any overhead electricity lines must be carried out by you in accordance with the Health and Safety Executive guidance document GS6 and the Electricity at Work Regulations.

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

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

10. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
11. If in carrying out work on land in, on, under or over which is installed an electric line and/or electrical plant that belongs to UK Power Networks you and/or anyone working on your behalf damages (however slightly) that apparatus you must inform immediately UK Power Networks by our emergency 24 hour three digit telephone number **105** providing;
- your name, address and telephone number;
 - the date, time and place at which such damage was caused;
 - a description of the electric line and/or electrical plant to which damage was caused;
 - the name of the person whom it appears to you is responsible for that damage;
 - the nature of the damage.
12. The expression "UK Power Networks" includes UK Power Networks (EPN) plc, UK Power Networks (LPN) plc, UK Power Networks (SEPN) plc, UK Power Networks and any of their successors and predecessors in title.





Dig Sites Area:  Line: 

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

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

Date Requested: 03/09/2024
Job Reference: 34590289
Site Location: 533729 121563
Requested by:
Mr Ben Evans
Your Scheme/Reference:
230231/YG
Scale: 1:4100 (When plotted at A4)

- 1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
- 2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
- 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
- 4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
- 5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
- 6. The information provided must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
- 7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
- 8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.

- 1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
- 2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
- 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
- 4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
- 5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
- 6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.

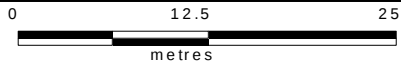
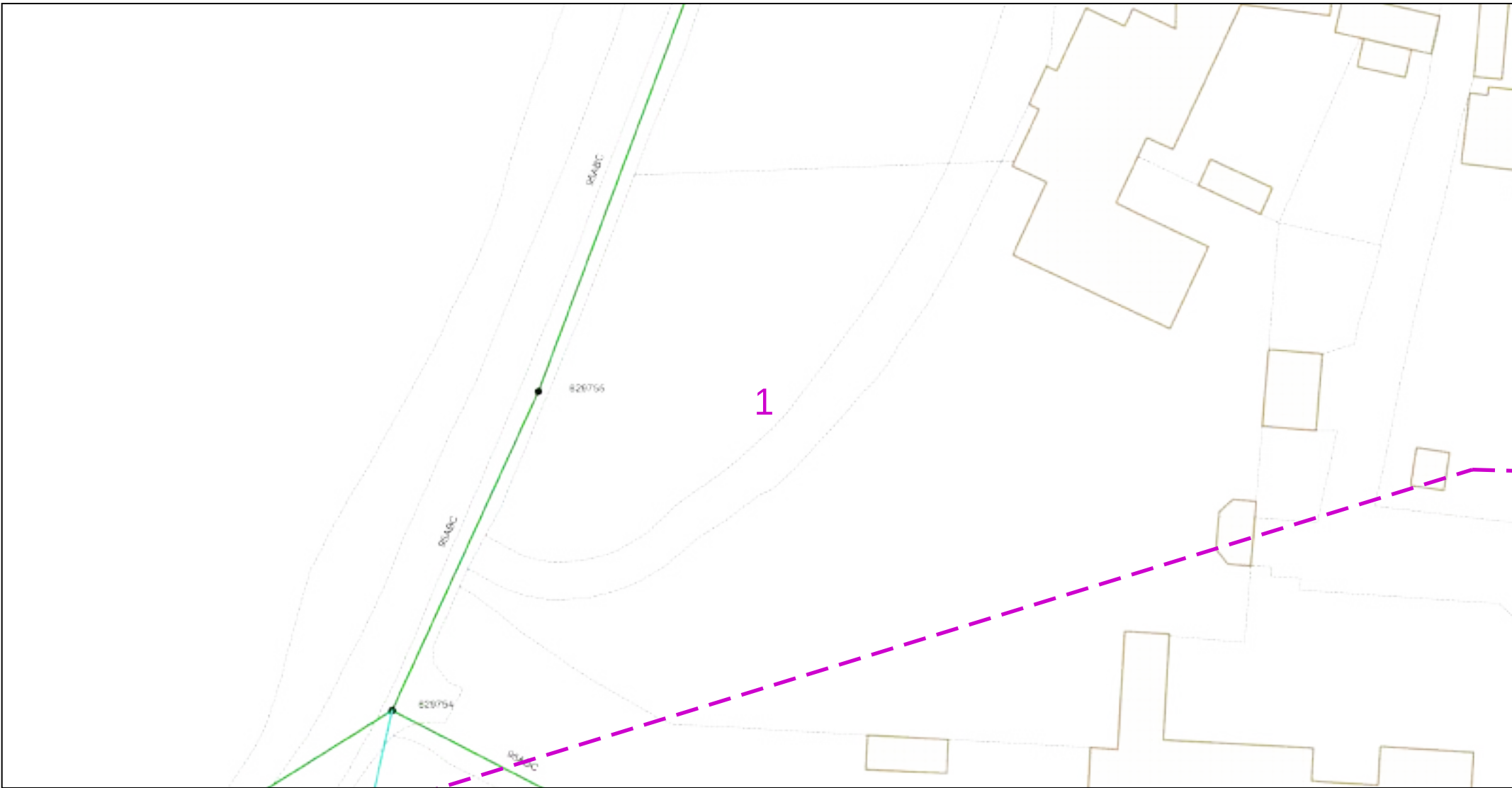


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0800 056 5866
EMERGENCY - If you damage a
cable or line
Phone 0800 783 8838 (24hrs)
URGENTLY



ALWAYS LOOK UP
BEFORE
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Refer to HSE Guidance
note GS6

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Dig Sites Area:  Line: 

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Date Requested: 03/09/2024
Job Reference: 34590289
Site Location: 533729 121563
Requested by: Mr Ben Evans

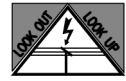
Your Scheme/Reference:
230231/YG
Scale: 1:500 (When plotted at A4)

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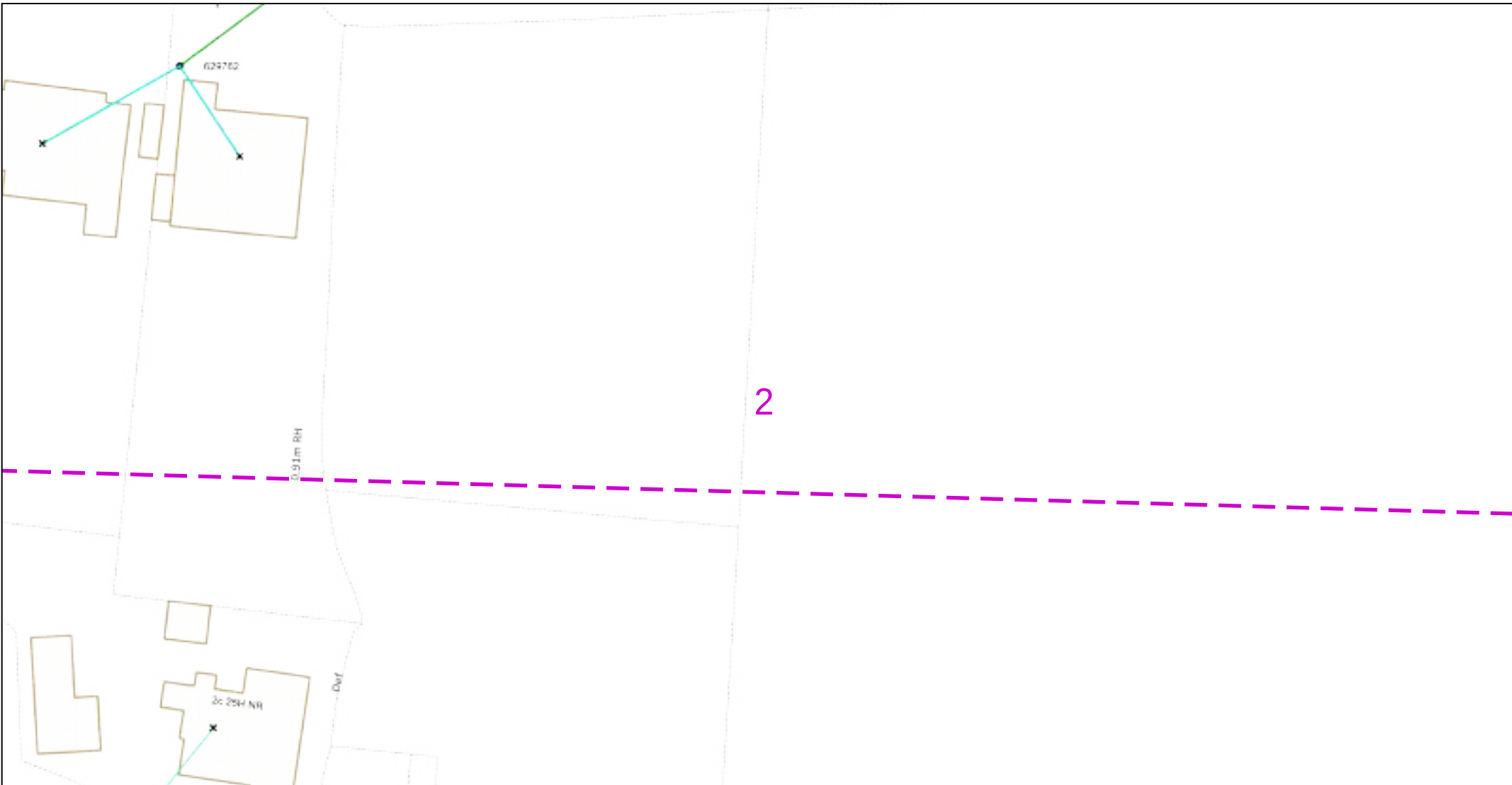


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0 12.5 25

metres

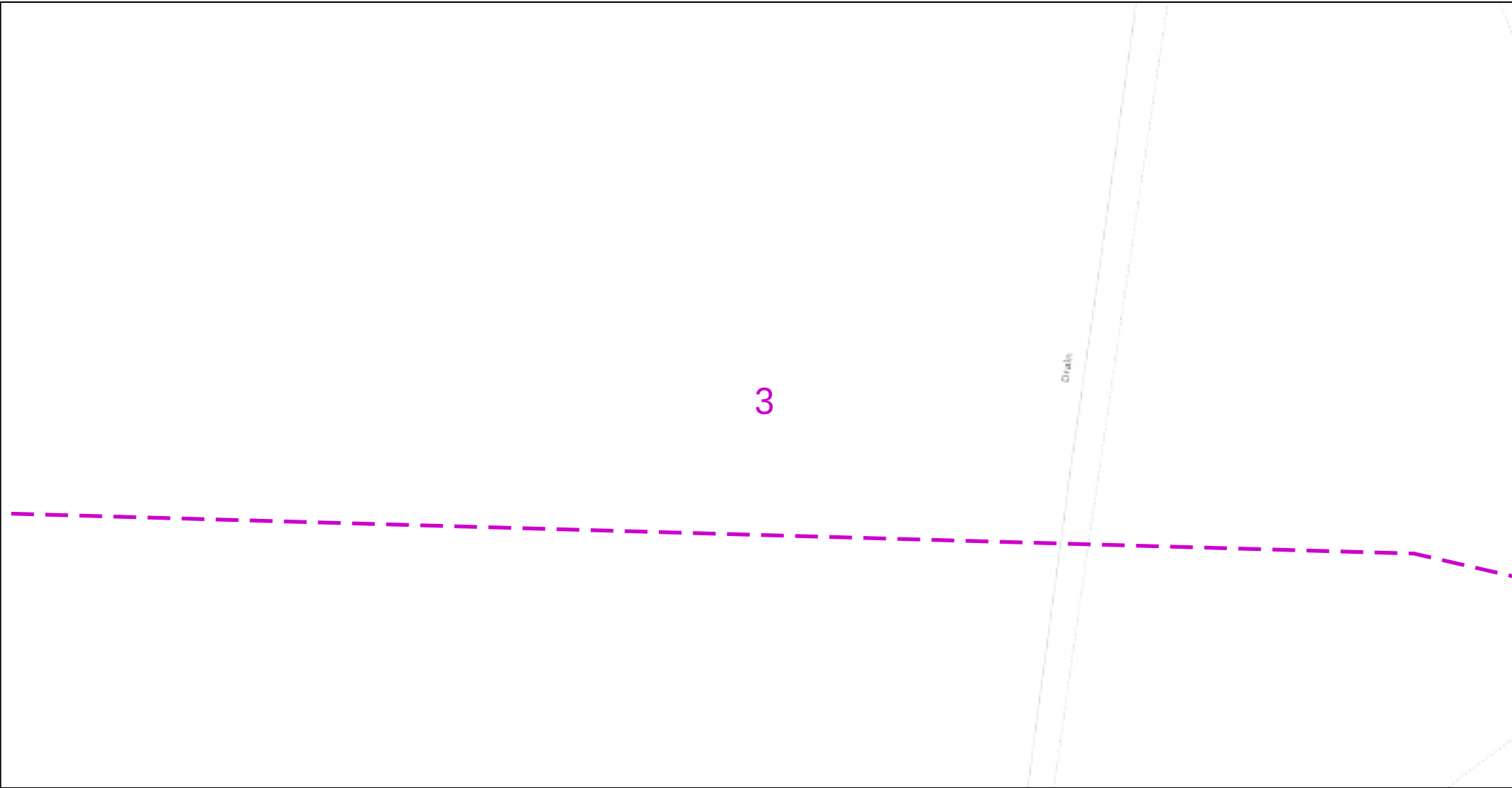
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Date Requested: 03/09/2024 Job Reference: 34590289 Site Location: 533729 121563 Requested by: Mr Ben Evans Your Scheme/Reference: 230231/YG Scale: 1:500 (When plotted at A4)	IF IN DOUBT - ASK! PHONE 0800 056 5866 EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY	ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note GS6 Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.	

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3

Drain

012.525metres

Dig Sites

Area:

Line:

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Date Requested: 03/09/2024

Job Reference: 34590289

Site Location: 533729 121563

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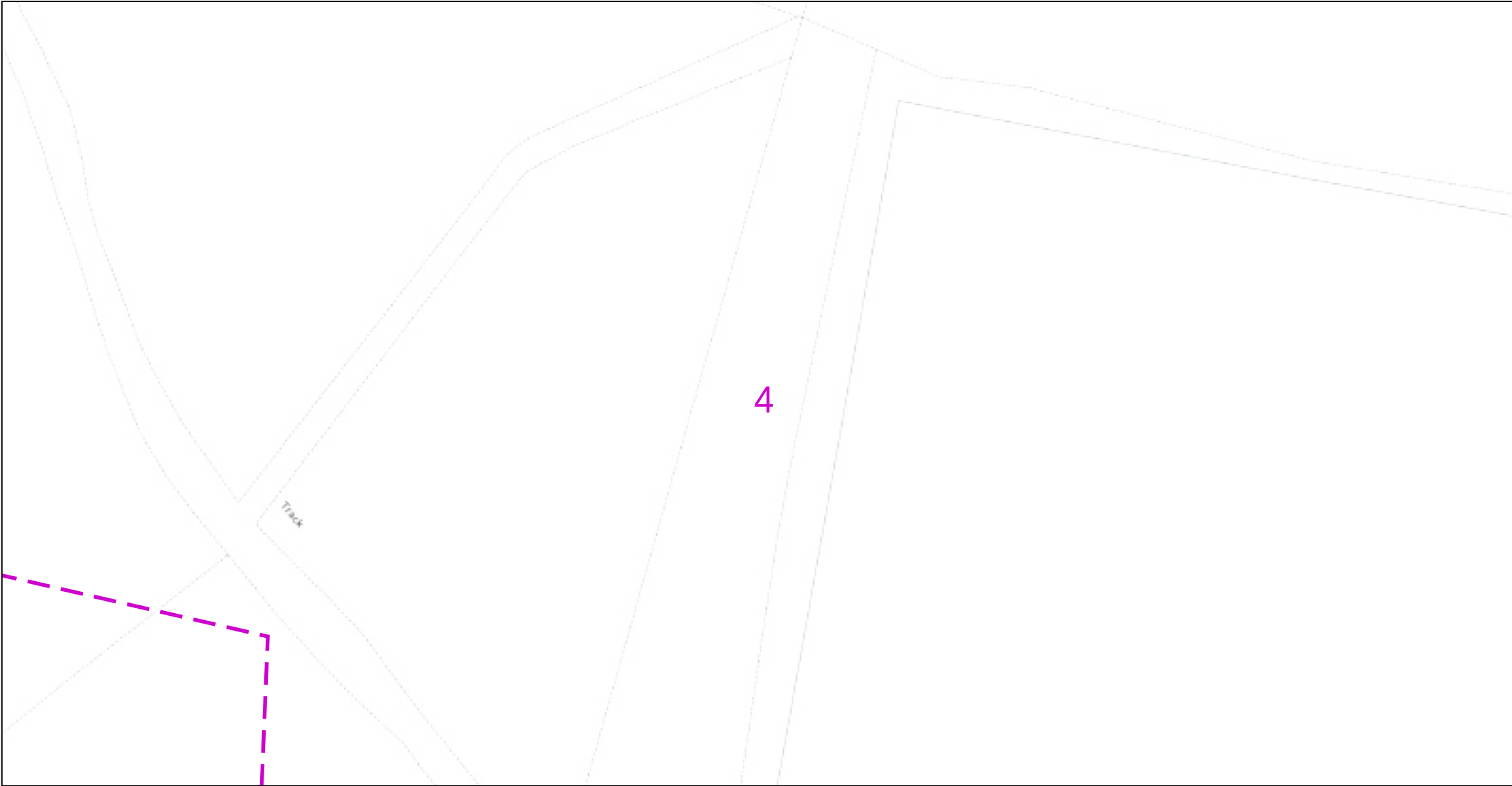
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012.525metres

Dig SitesArea: Line:

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Date Requested: 03/09/2024

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Site Location: 533729 121563

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Your Scheme/Reference: 230231/YG

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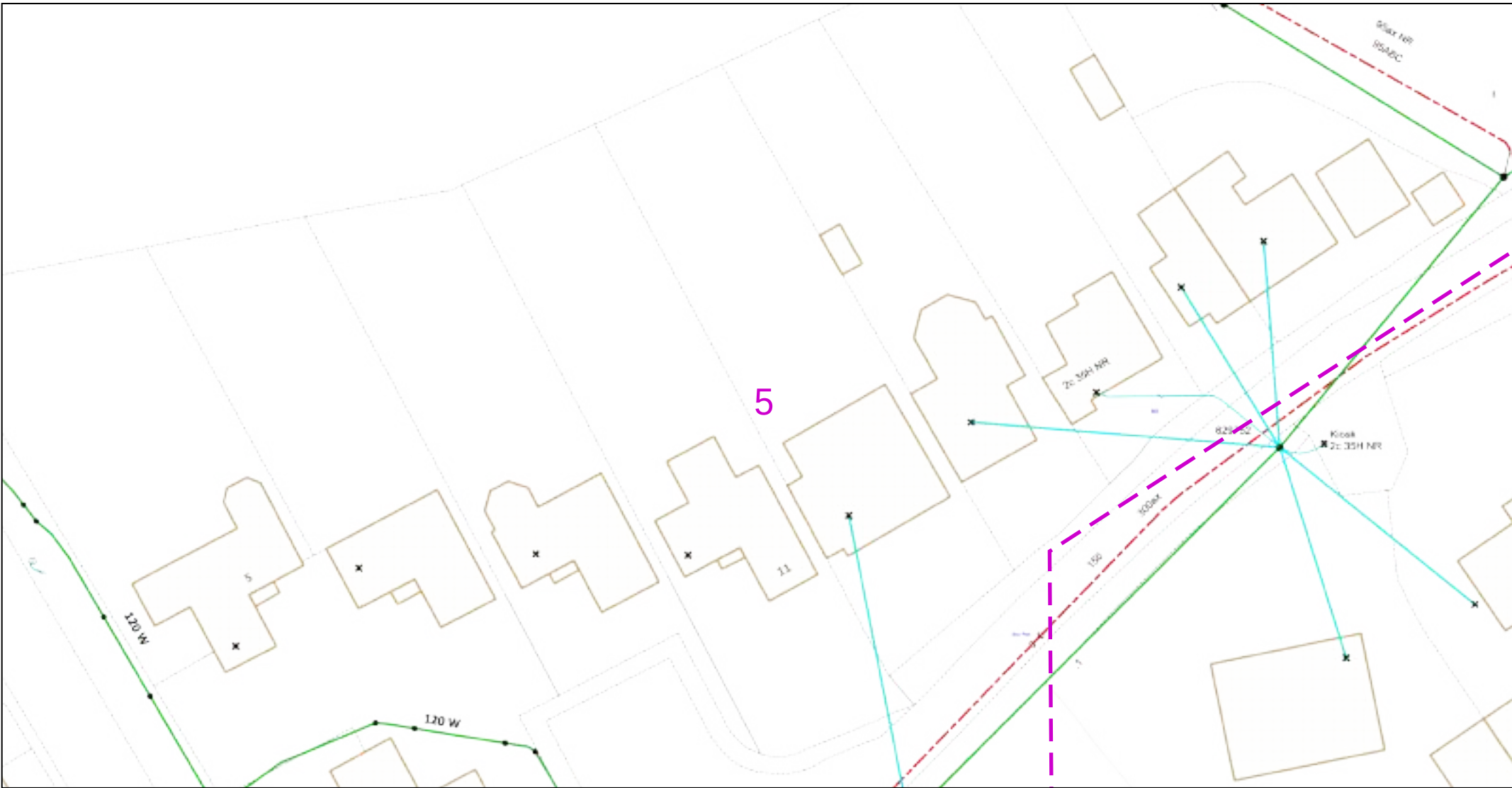
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012.525metres

Dig SitesArea: Line:

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Date Requested: 03/09/2024

Job Reference: 34590289

Site Location: 533729 121563

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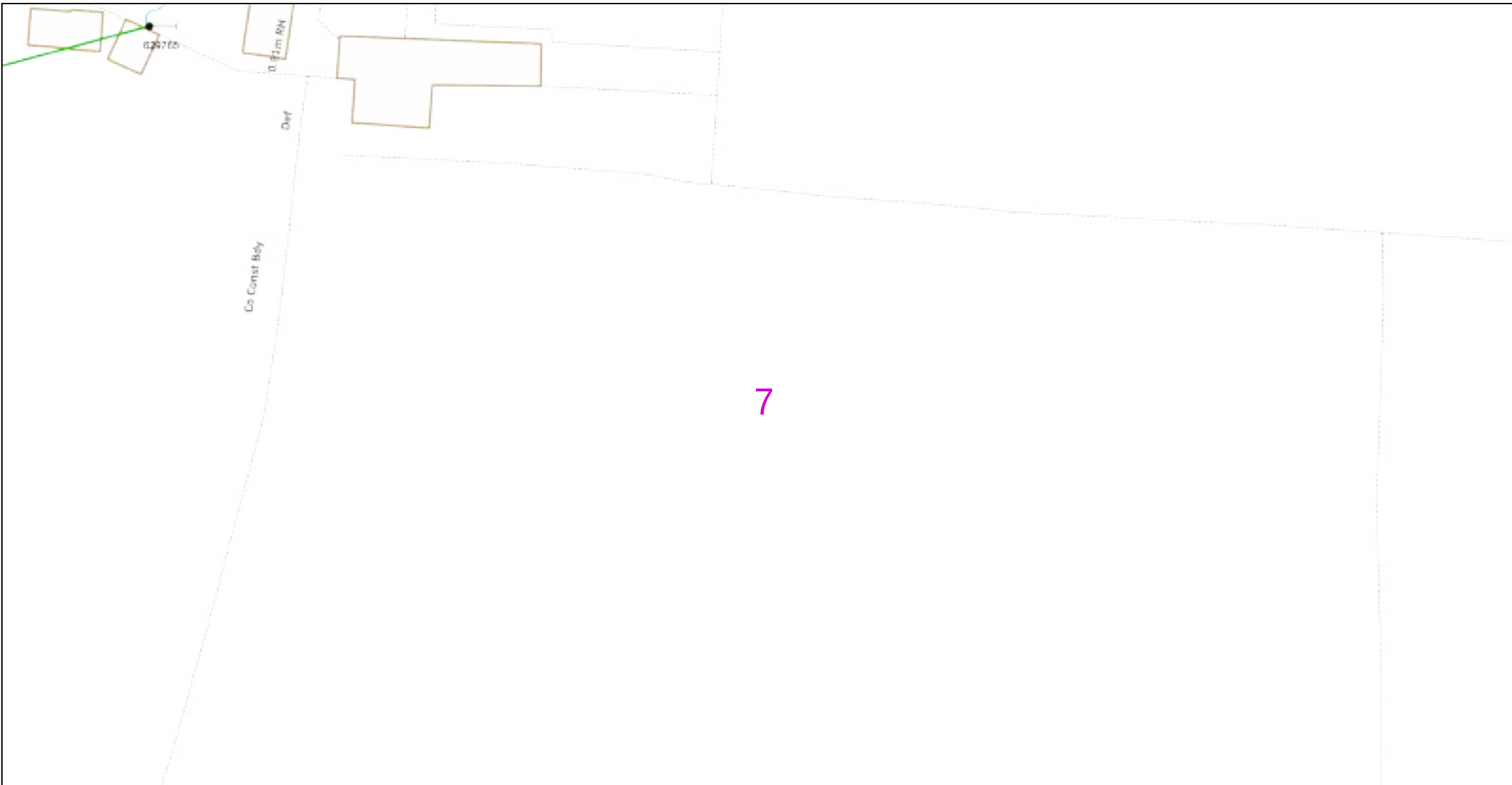
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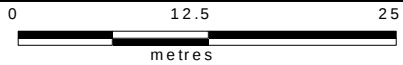
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7



Dig Sites Area: Line:

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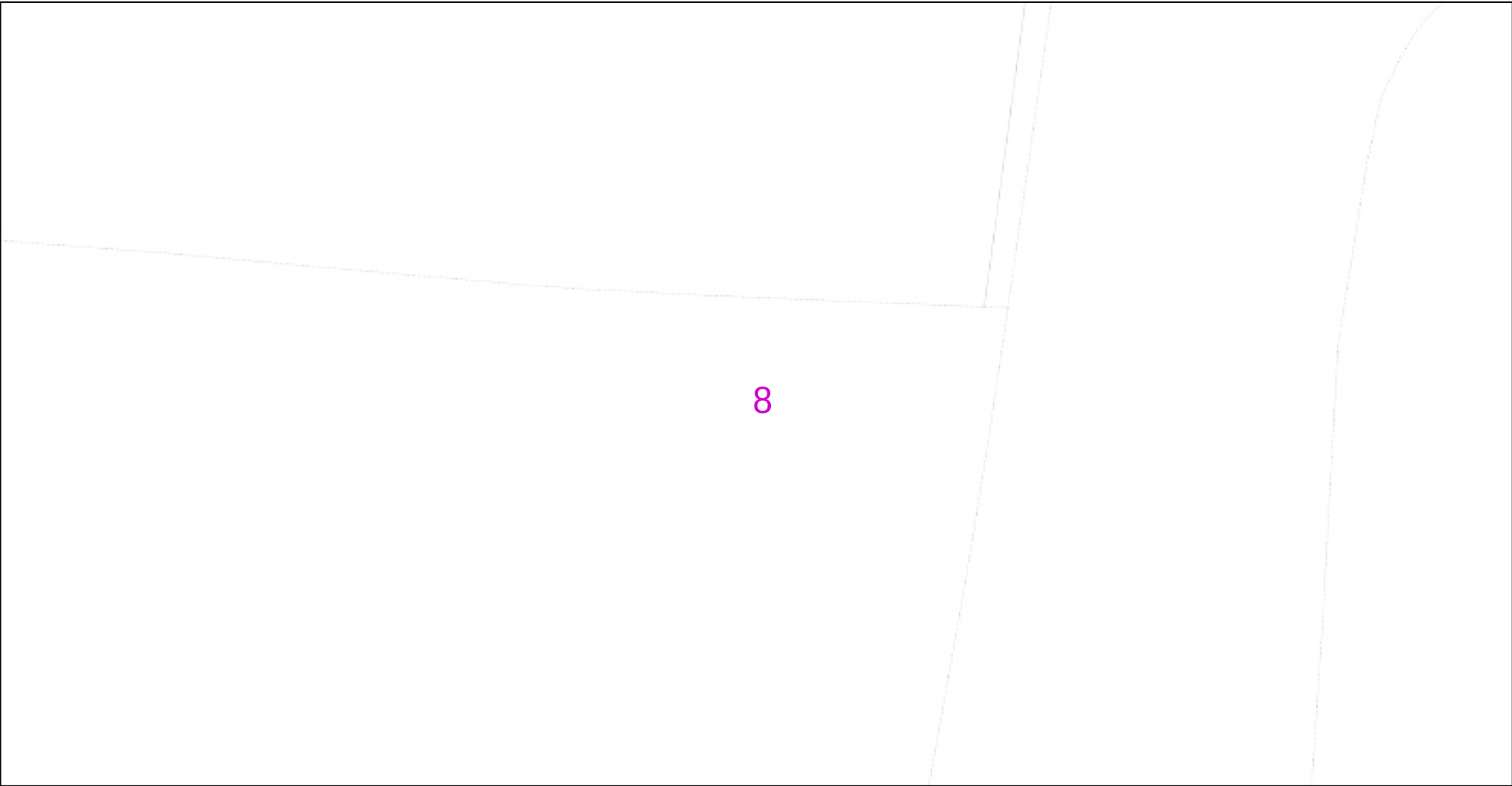


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8

012.525metres

Dig Sites

Area: 

Line: 

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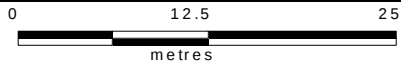
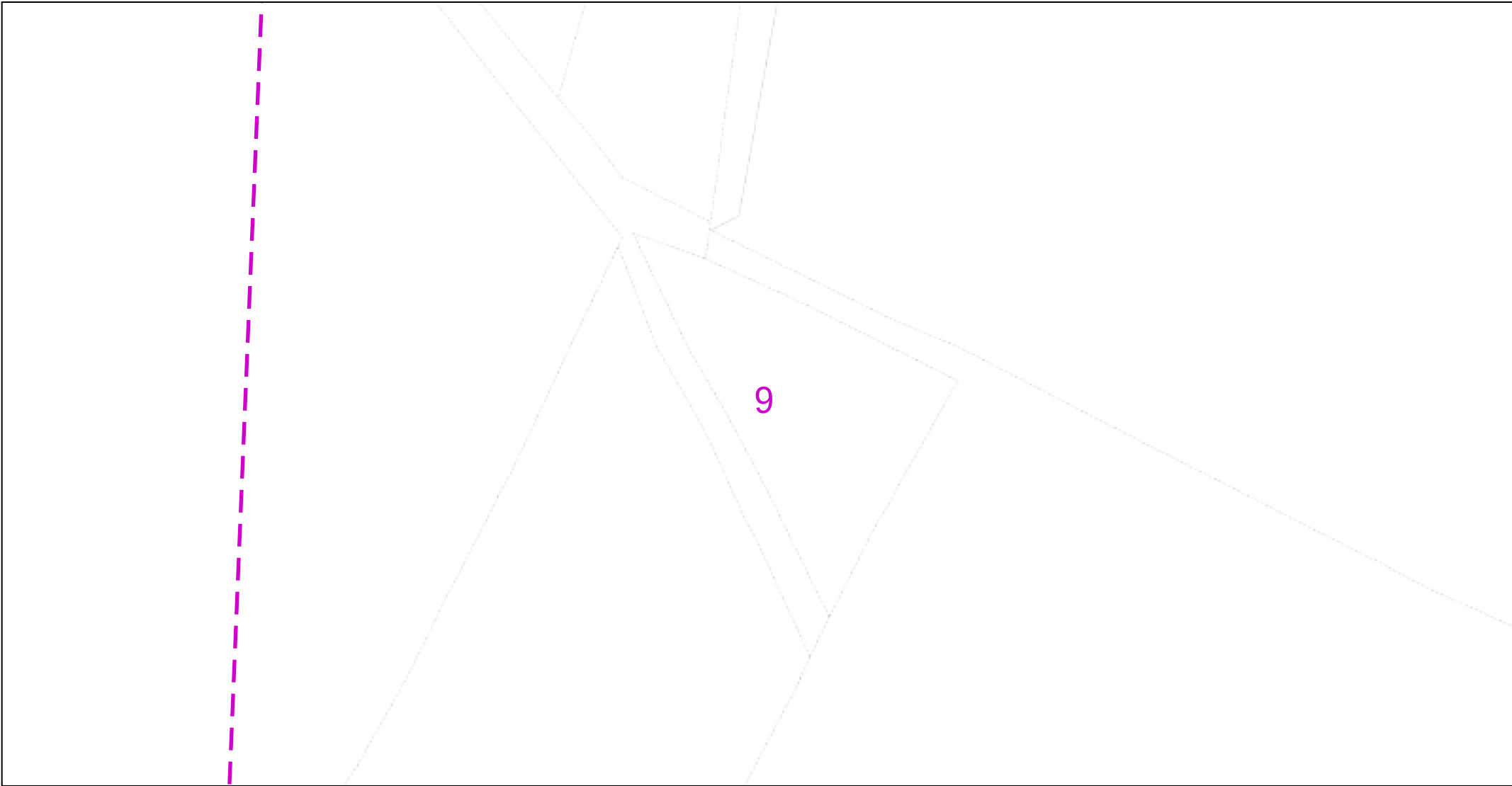
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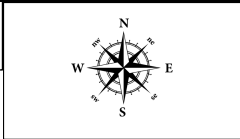
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Job Reference: 34590289
Site Location: 533729 121563
Requested by: Mr Ben Evans

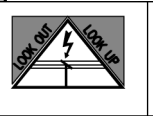
Your Scheme/Reference:
230231/YG
Scale: 1:500 (When plotted at A4)

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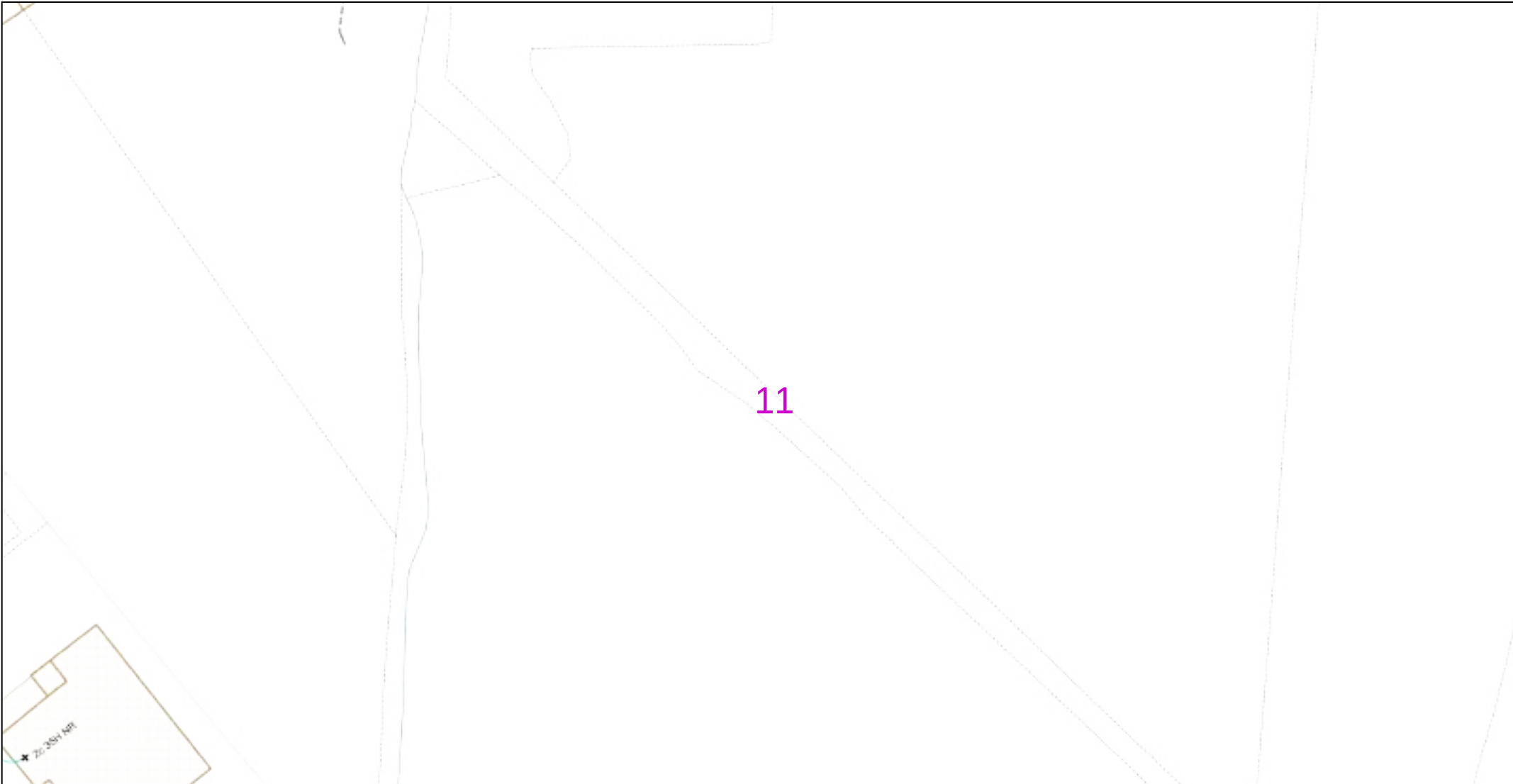


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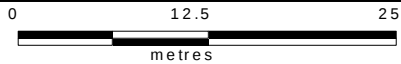


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11



Dig Sites Area:  Line: 

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012.525metres

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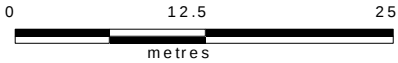
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13

Path (unp)



Dig Sites Area:  Line: 

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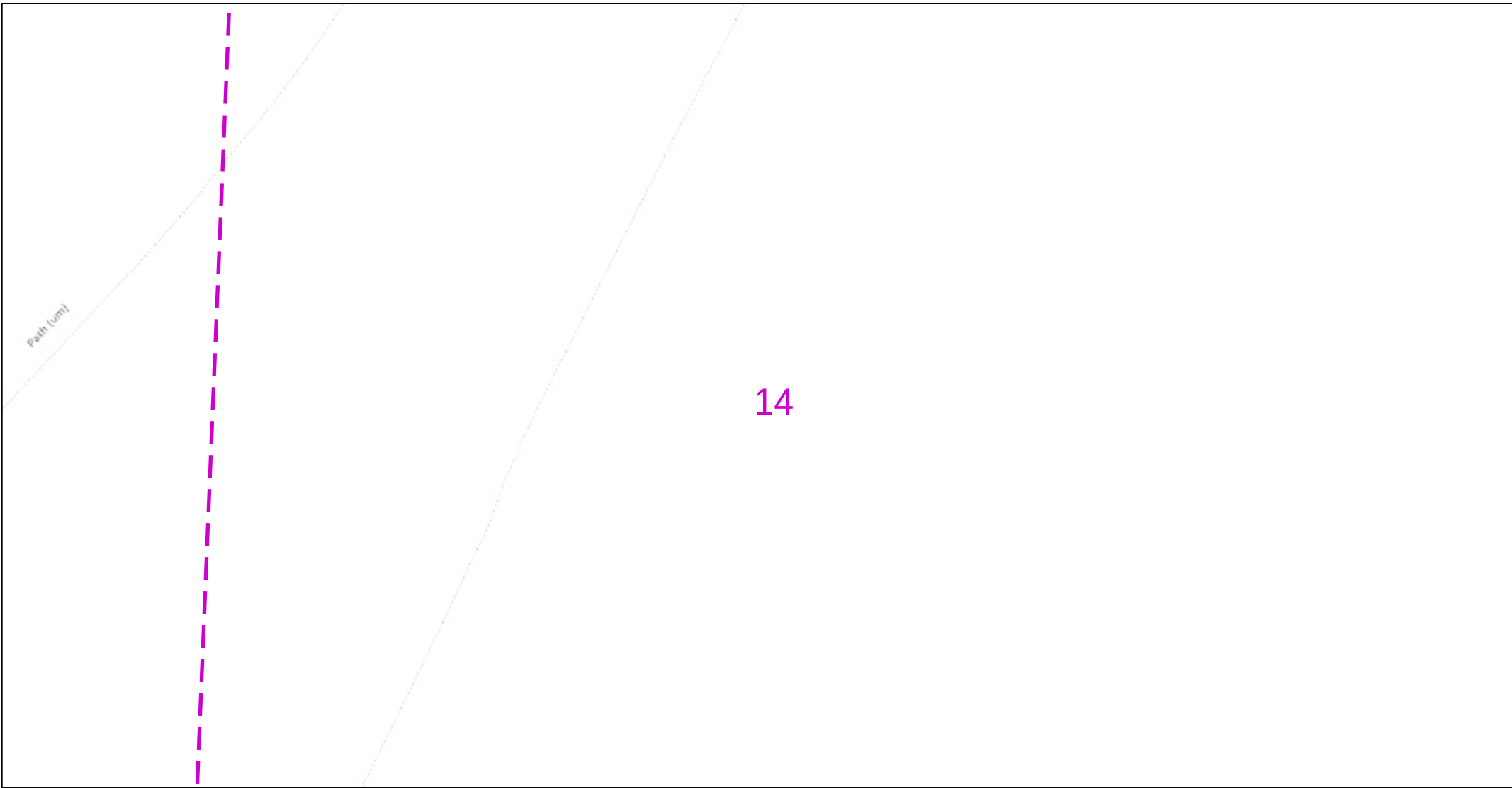


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14

012.525metres

Dig Sites

Area:

Line:

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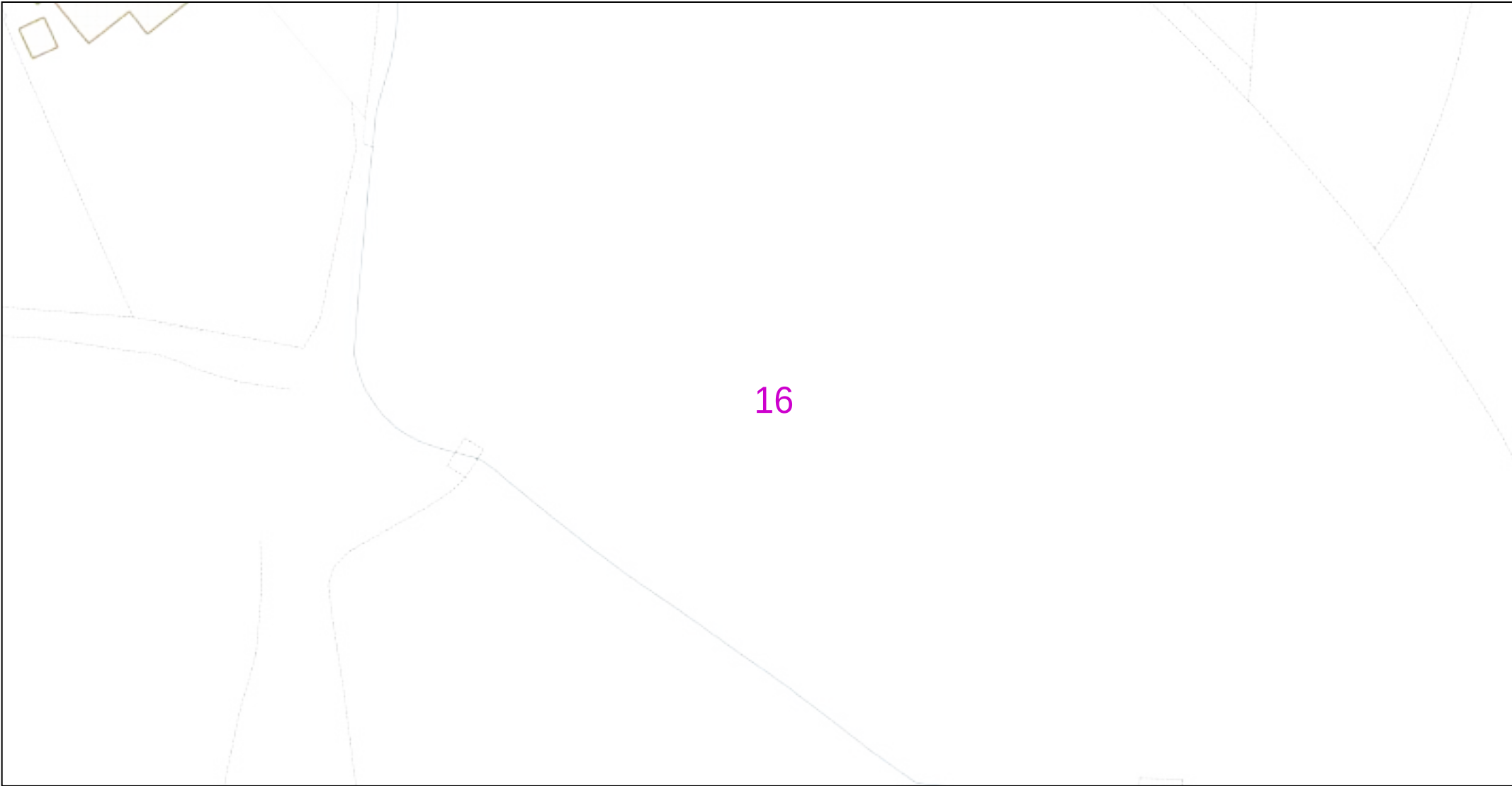
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16

012.525metres

Dig SitesArea: Line:

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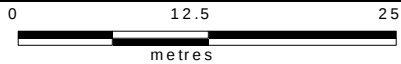
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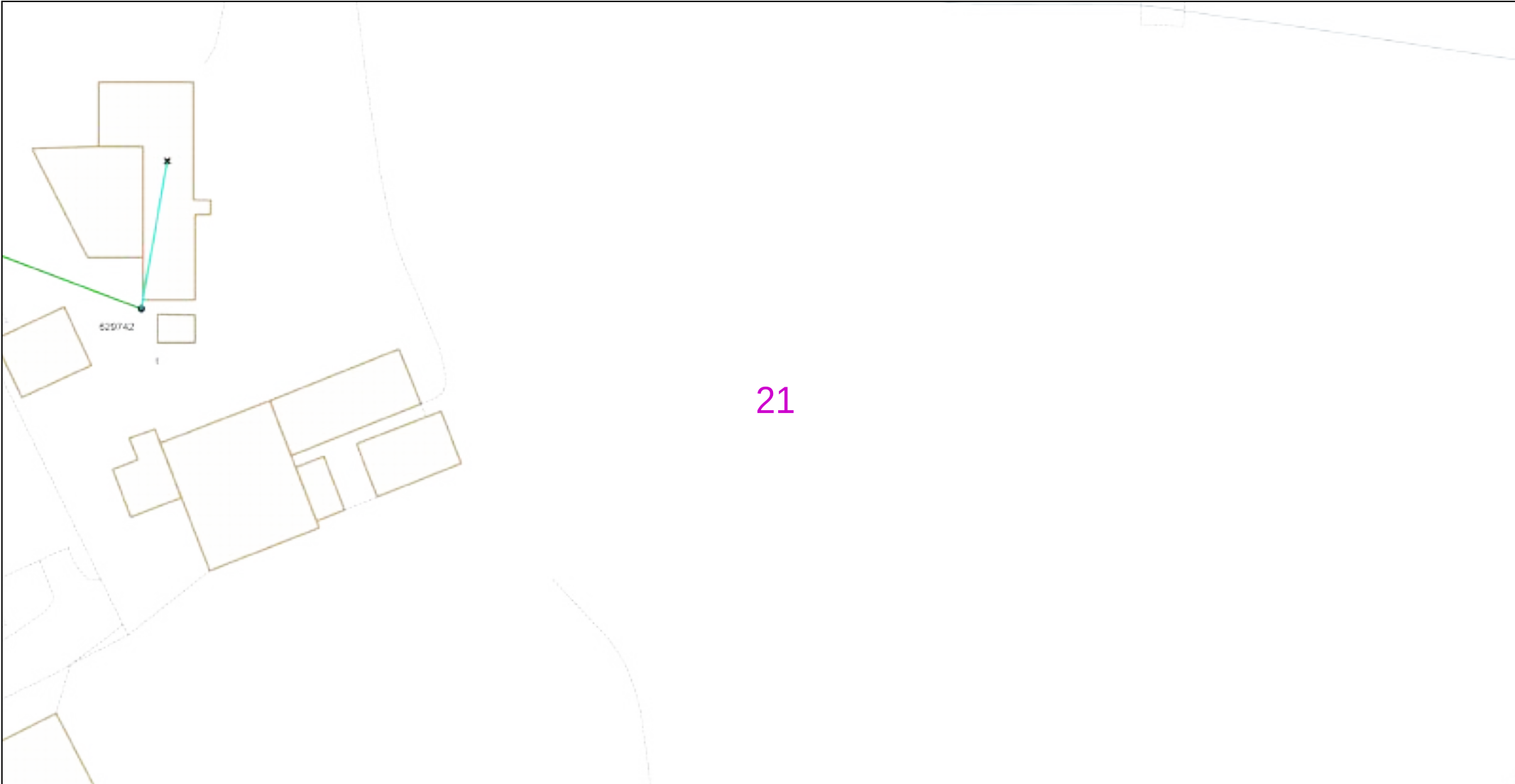


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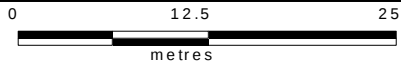


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21



Dig Sites Area: Line:

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Date Requested: 03/09/2024
Job Reference: 34590289
Site Location: 533729 121563
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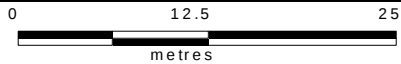


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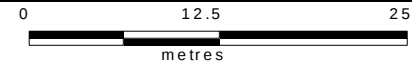


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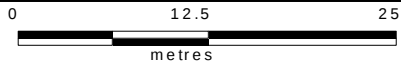
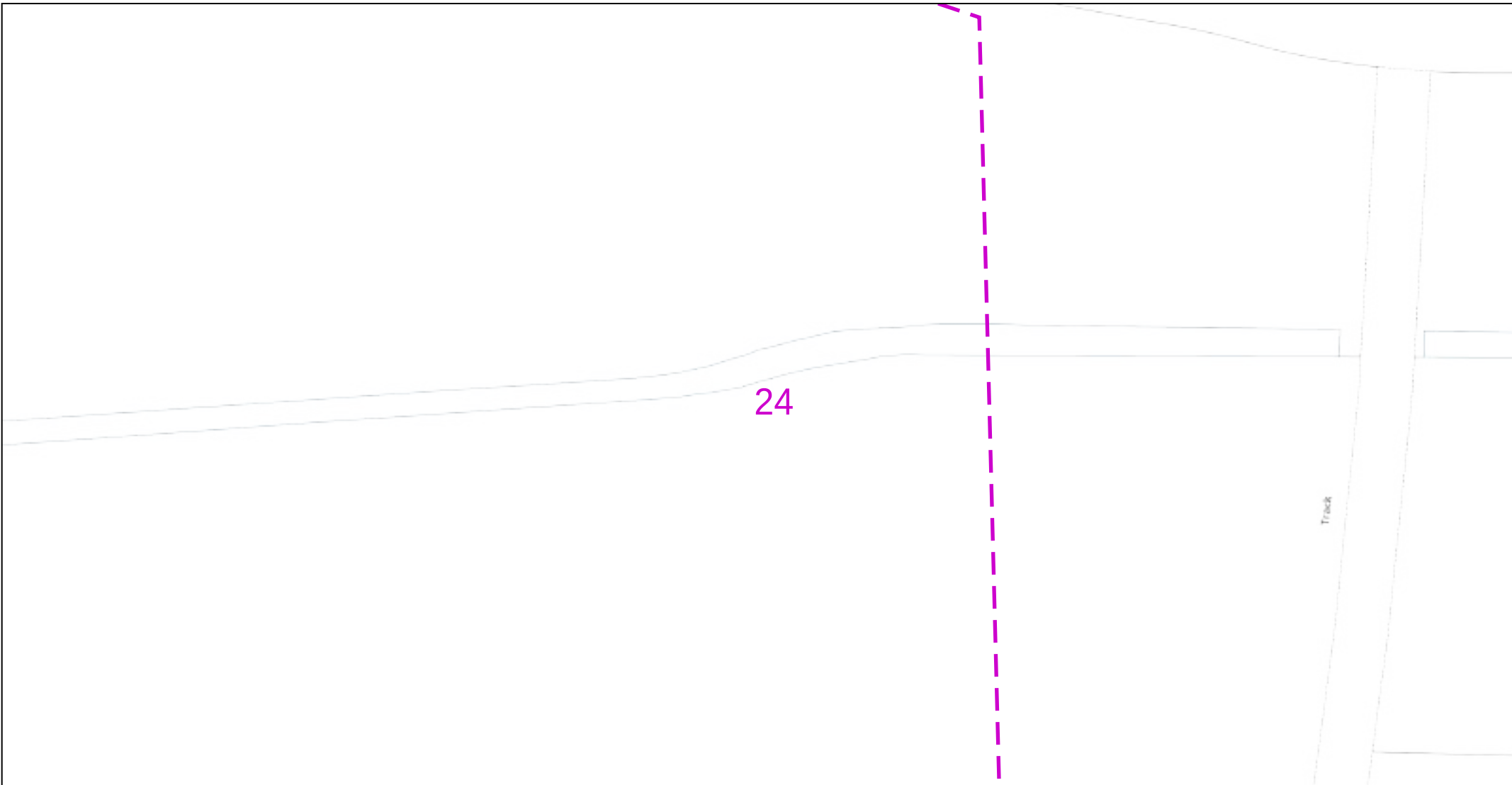
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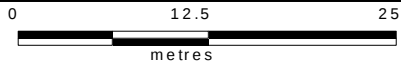
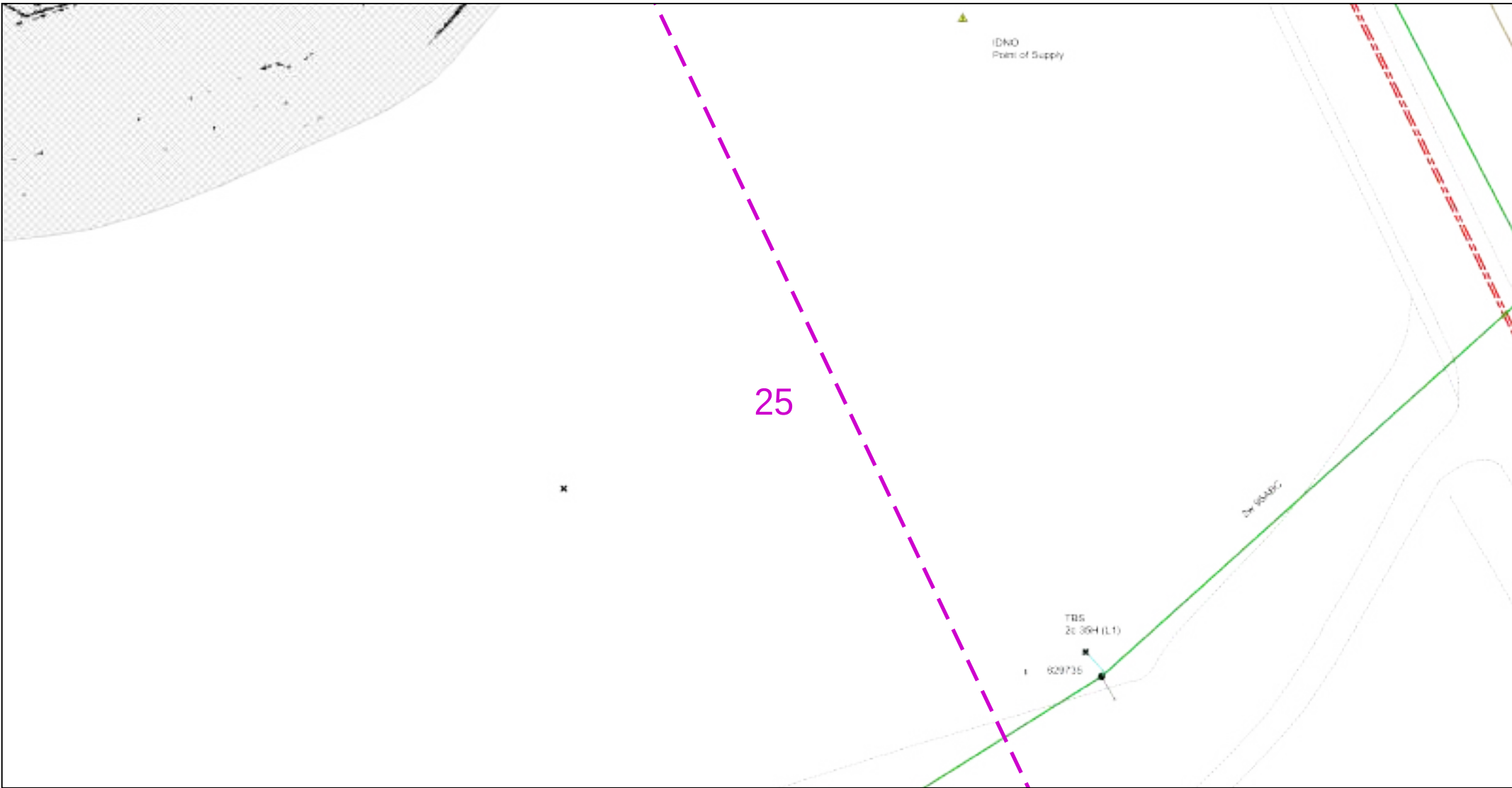
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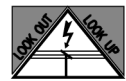
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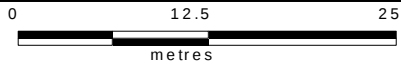
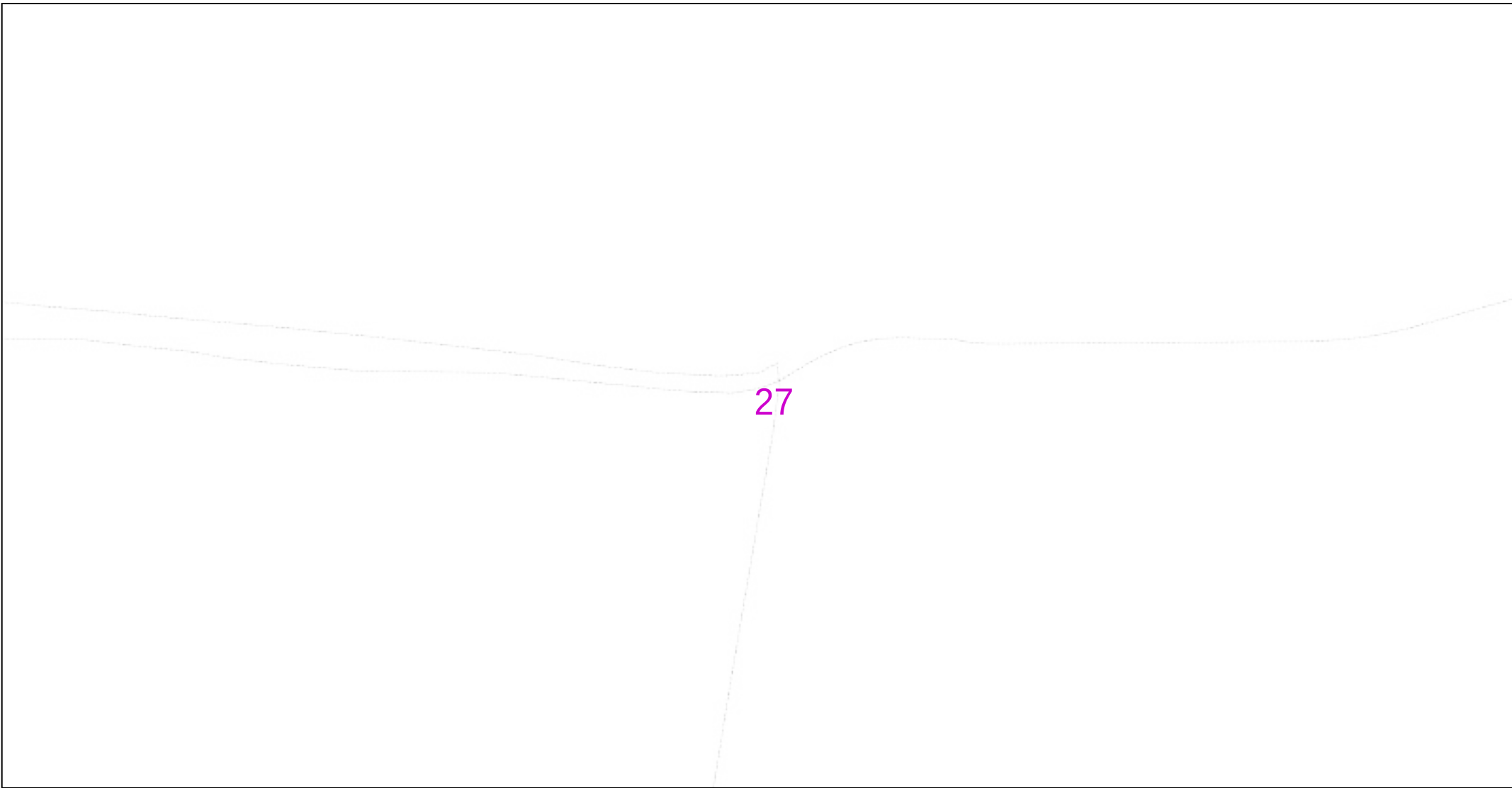


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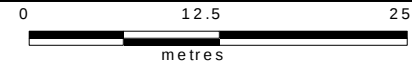


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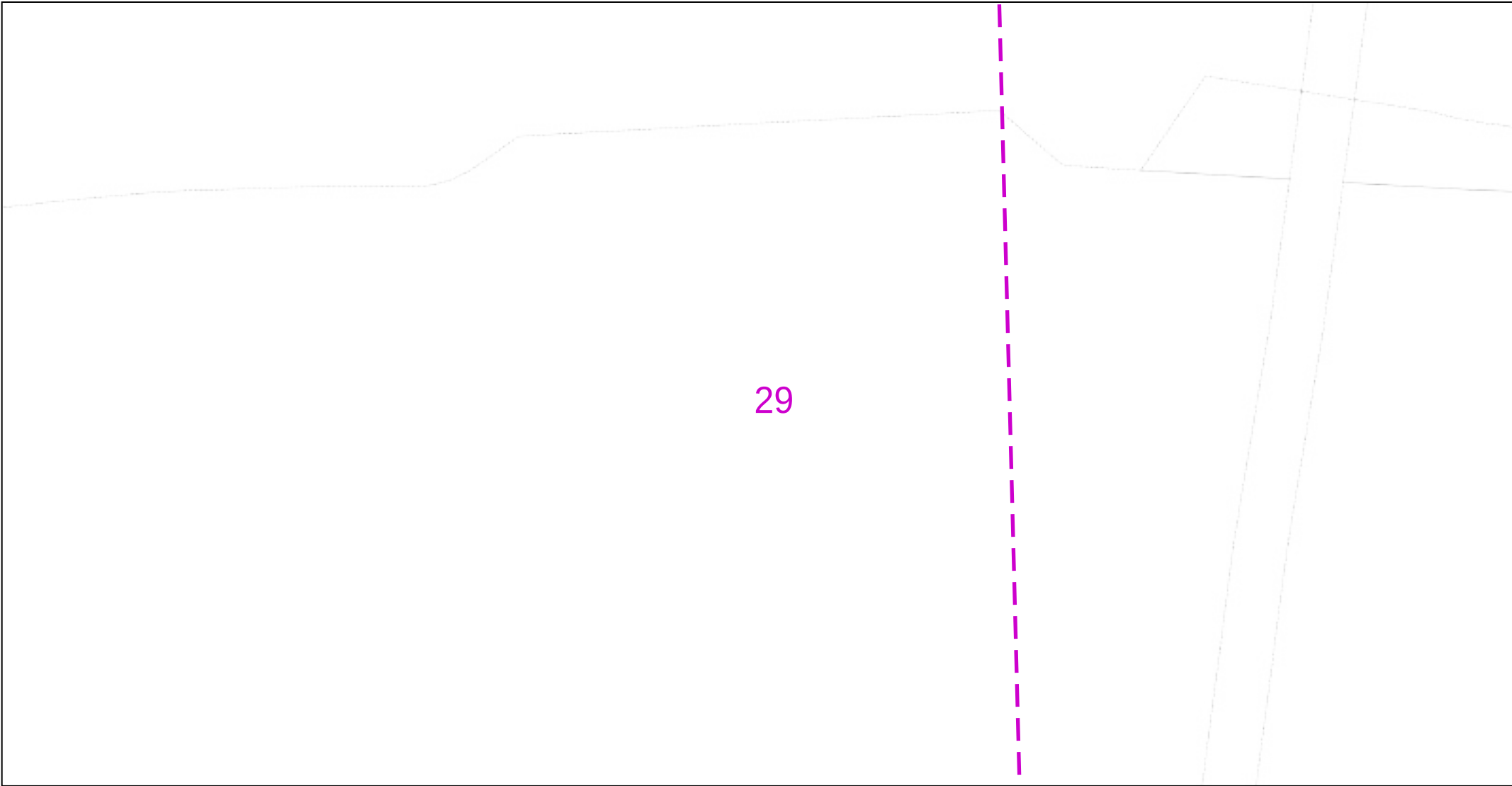


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29

012.525metres

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EMERGENCY - If you damage a cable or line Phone 0800 783 8838 (24hrs) URGENTLY



ALWAYS LOOK UP BEFORE YOU START WORK

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Date Requested: 03/09/2024

Job Reference: 34590289

Site Location: 533729 121563

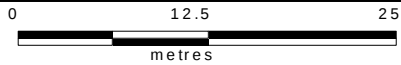
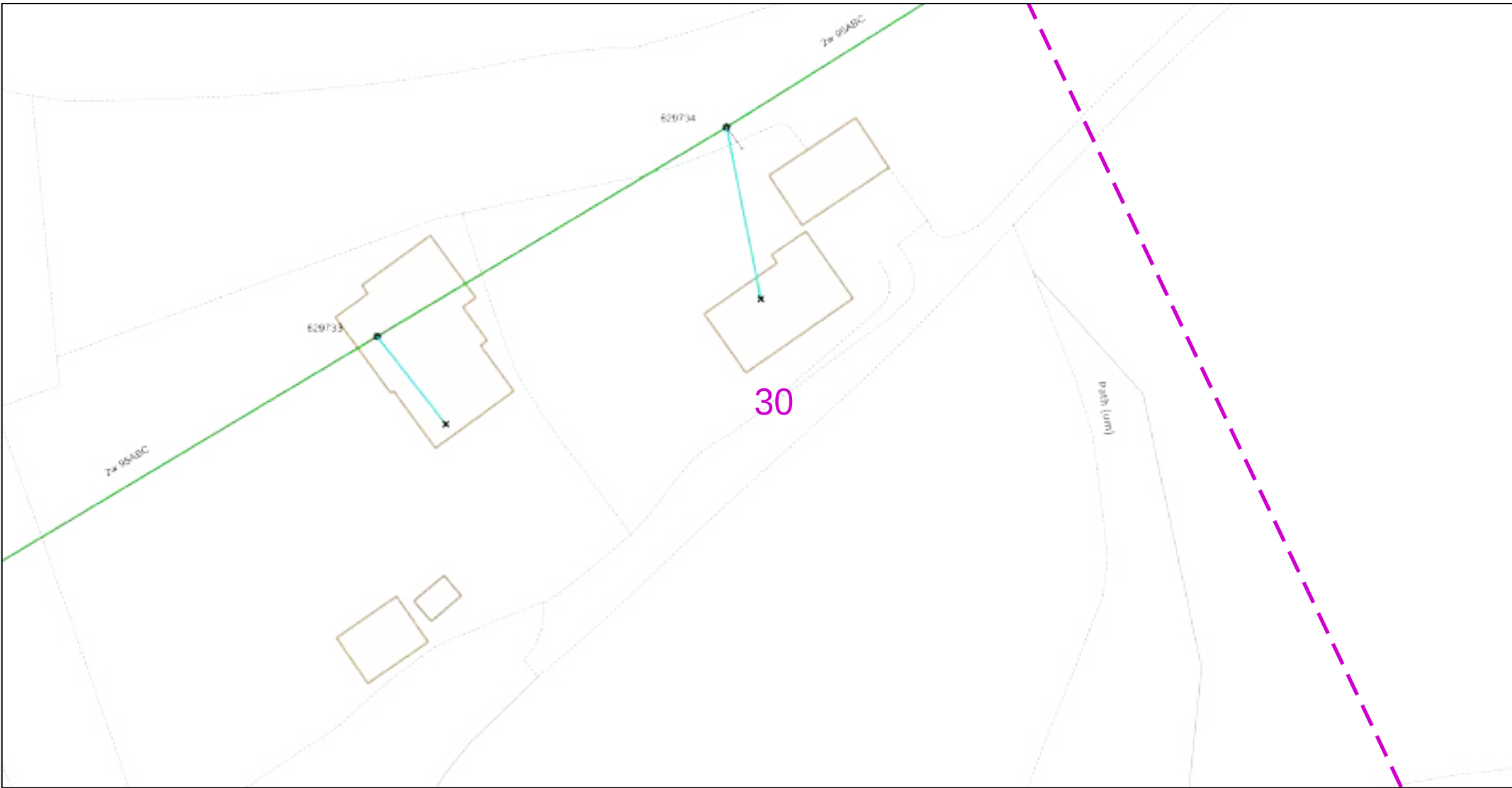
Requested by: Mr Ben Evans

Your Scheme/Reference: 230231/YG

Scale: 1:500 (When plotted at A4)

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Dig Sites Area: Line:

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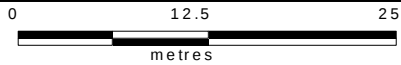
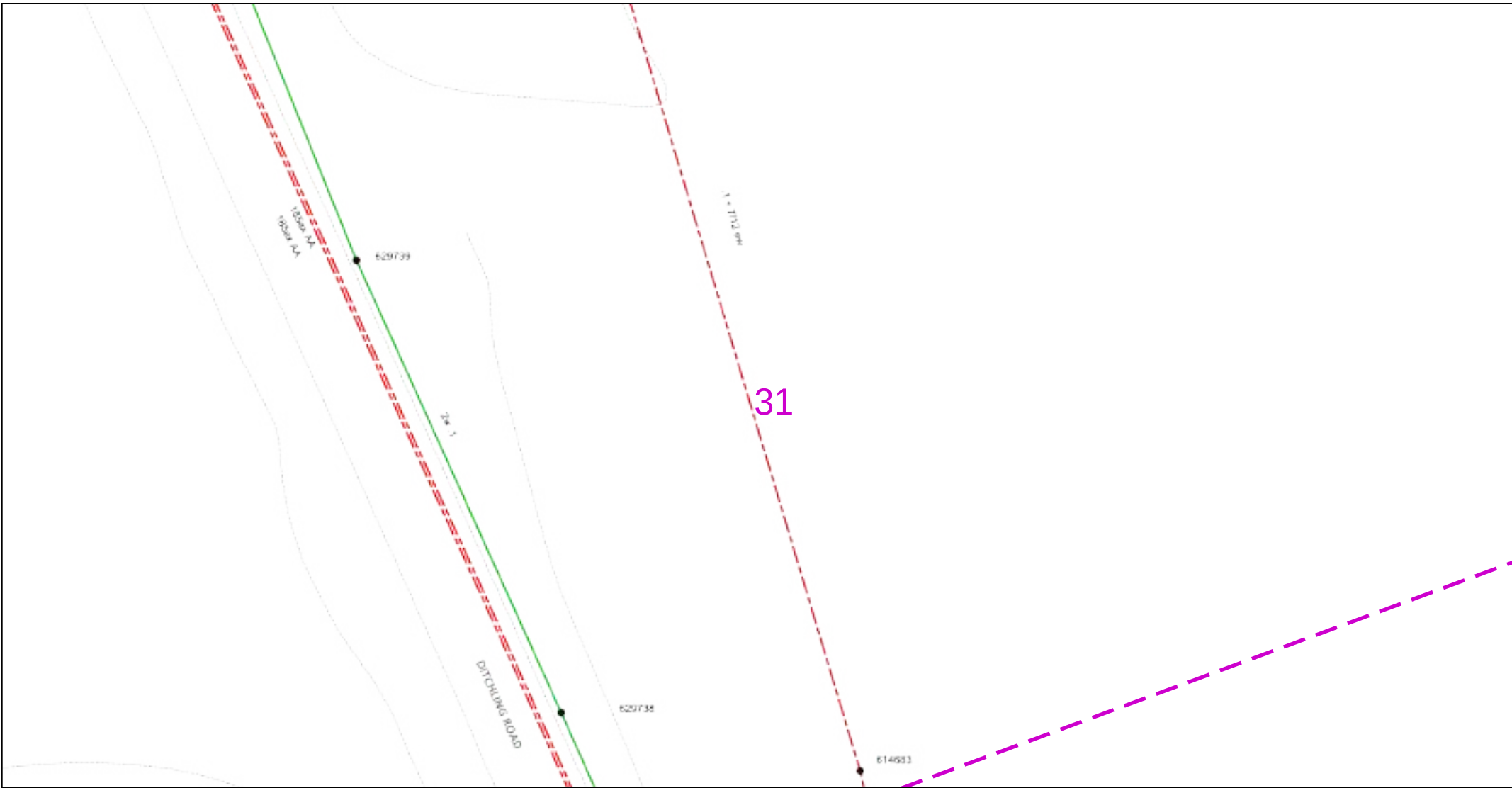
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Date Requested: 03/09/2024

Job Reference: 34590289

Site Location: 533729 121563

Requested by: Mr Ben Evans

Your Scheme/Reference:

230231/YG

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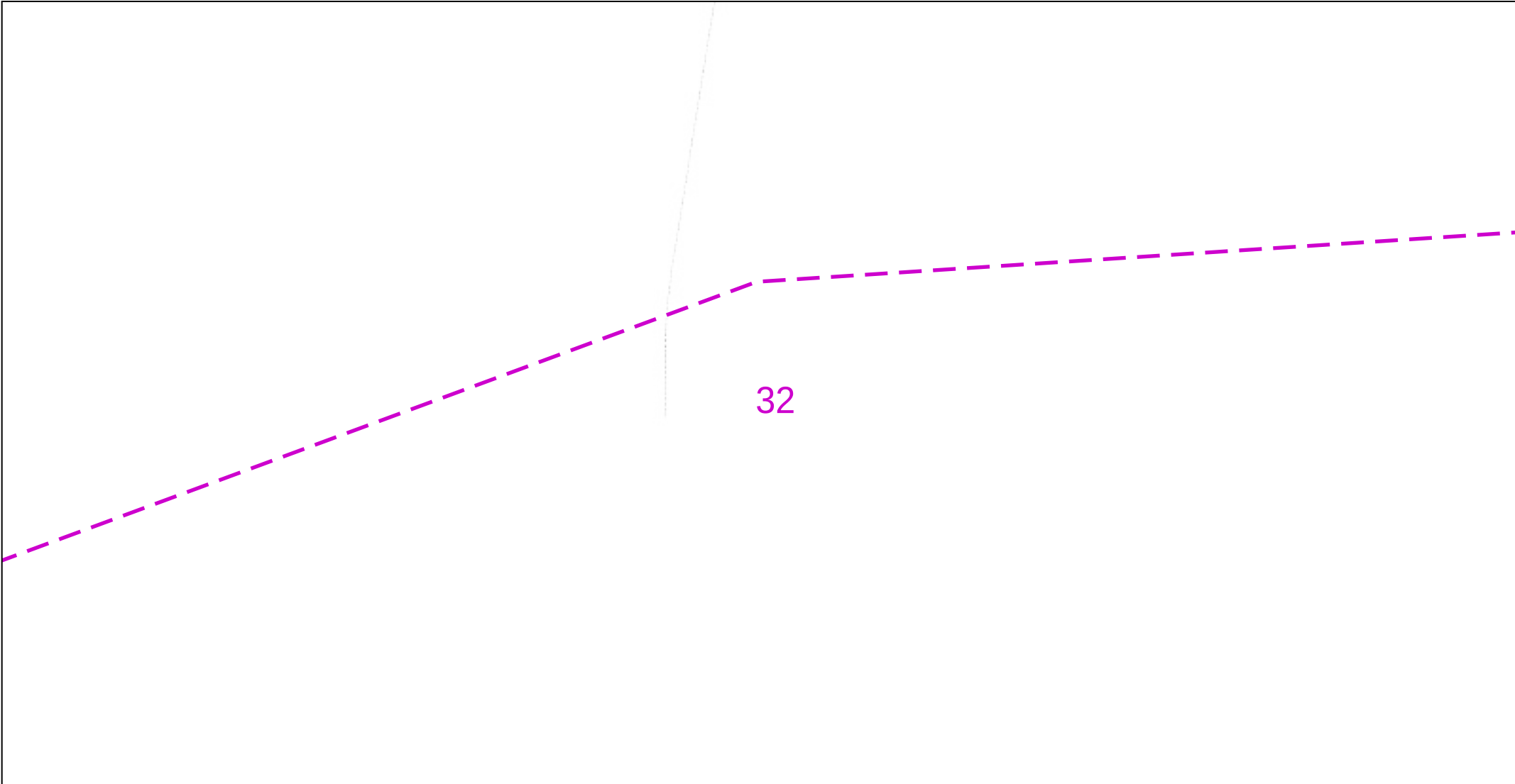


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0

12.5

25

metres

Dig Sites

Area: 

Line: 

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Date Requested: 03/09/2024

Job Reference: 34590289

Site Location: 533729 121563

Requested by: Mr Ben Evans

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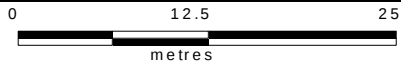
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Date Requested: 03/09/2024
Job Reference: 34590289
Site Location: 533729 121563
Requested by: Mr Ben Evans

Your Scheme/Reference:
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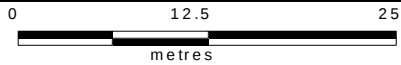
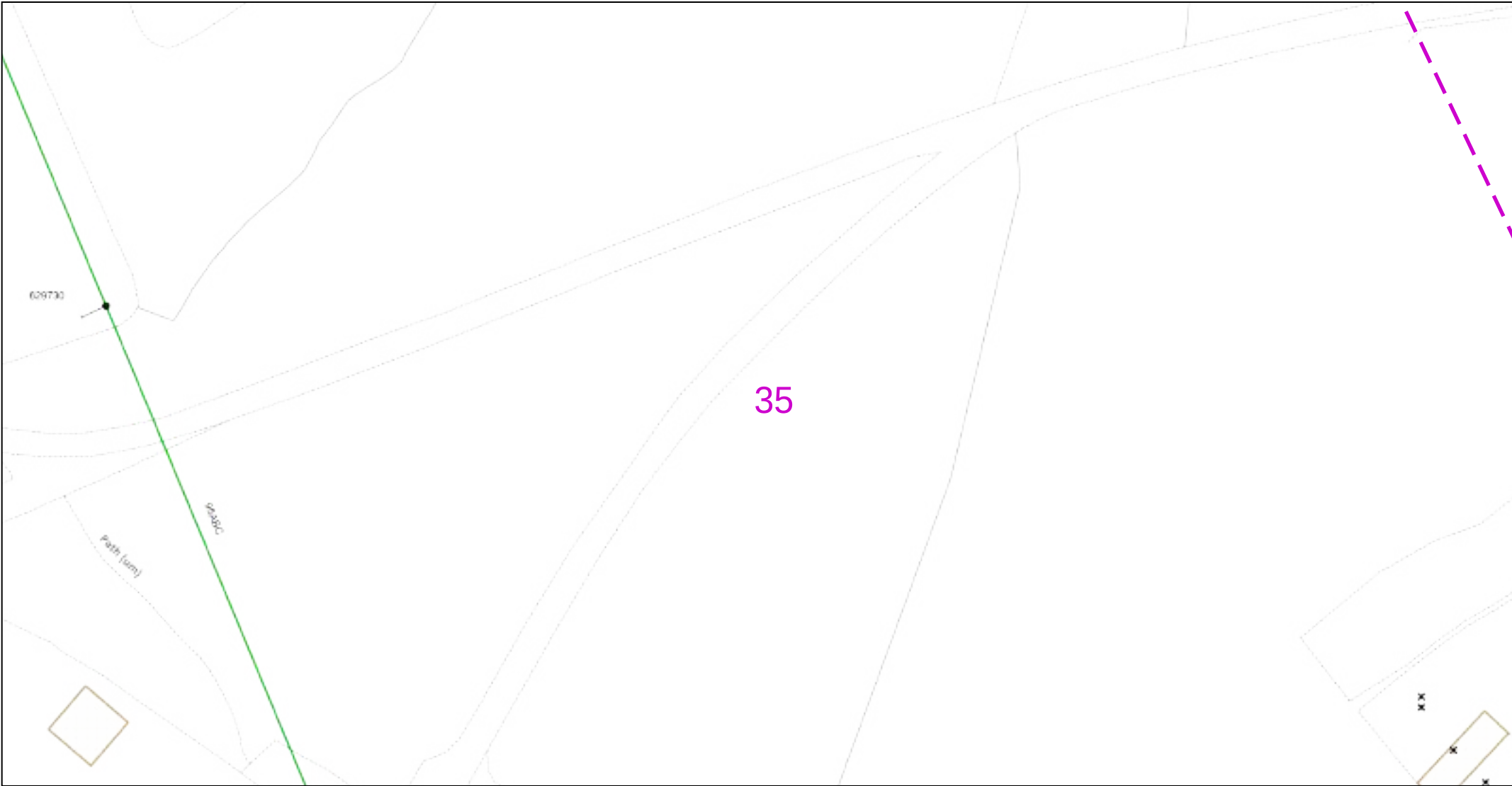


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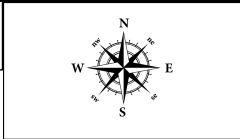
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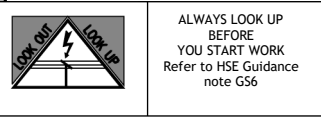
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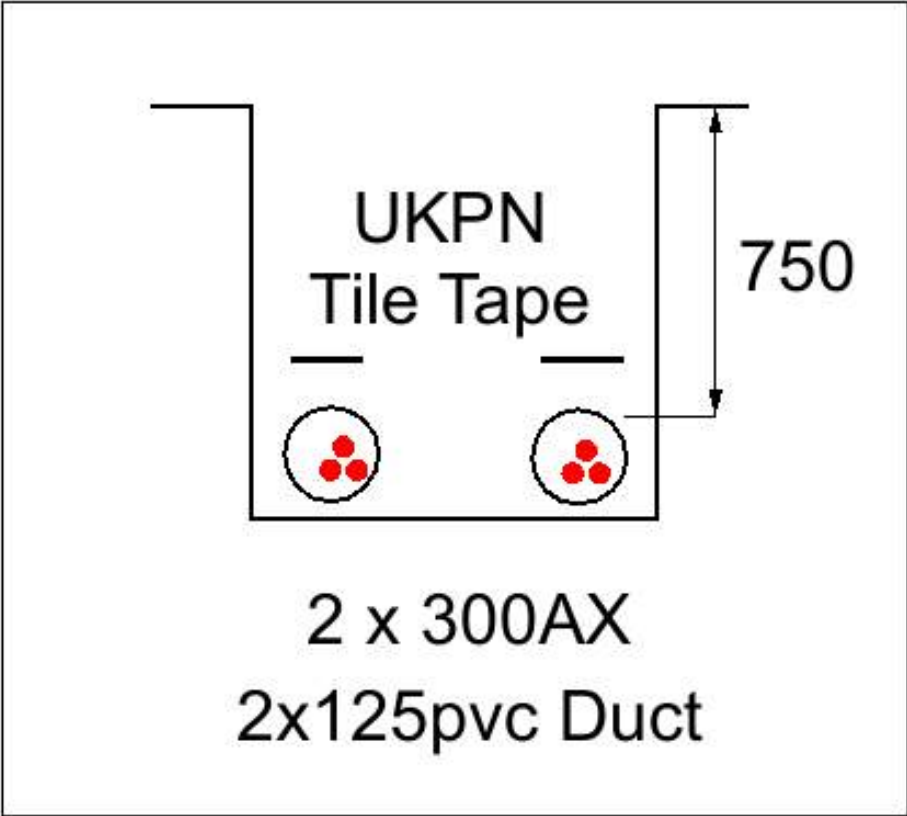
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Cross Section : 2608917



Cross Section
2608917

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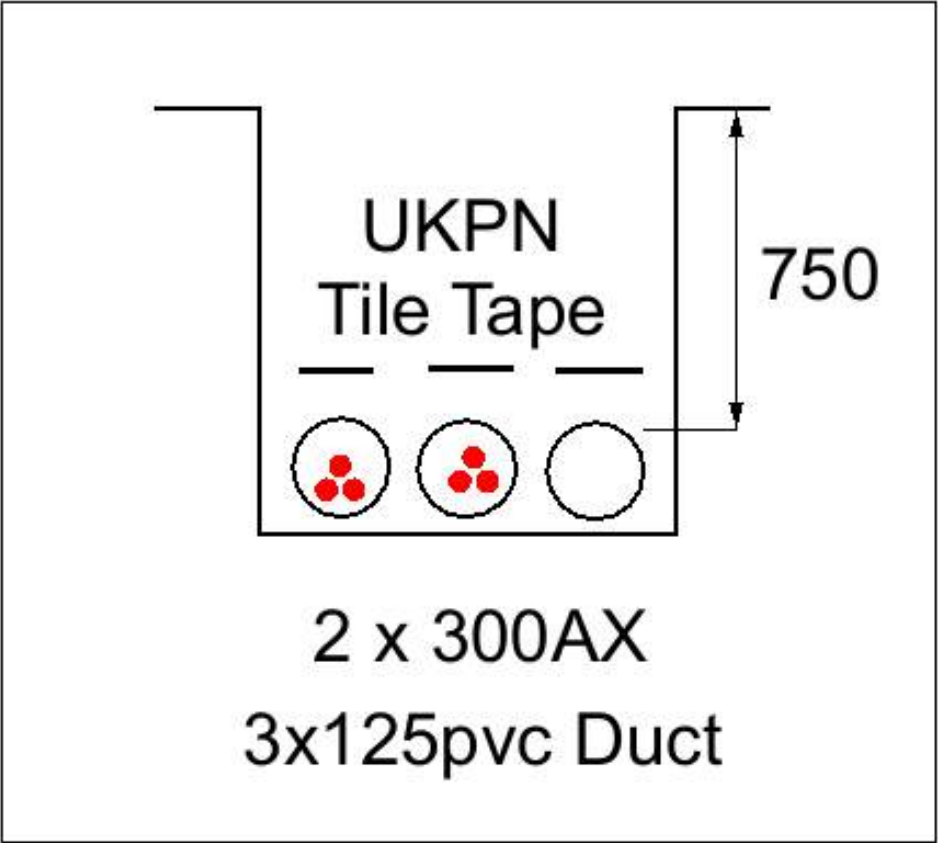
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UKPNENTL7



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Cross Section : 2608918



Cross Section
2608918

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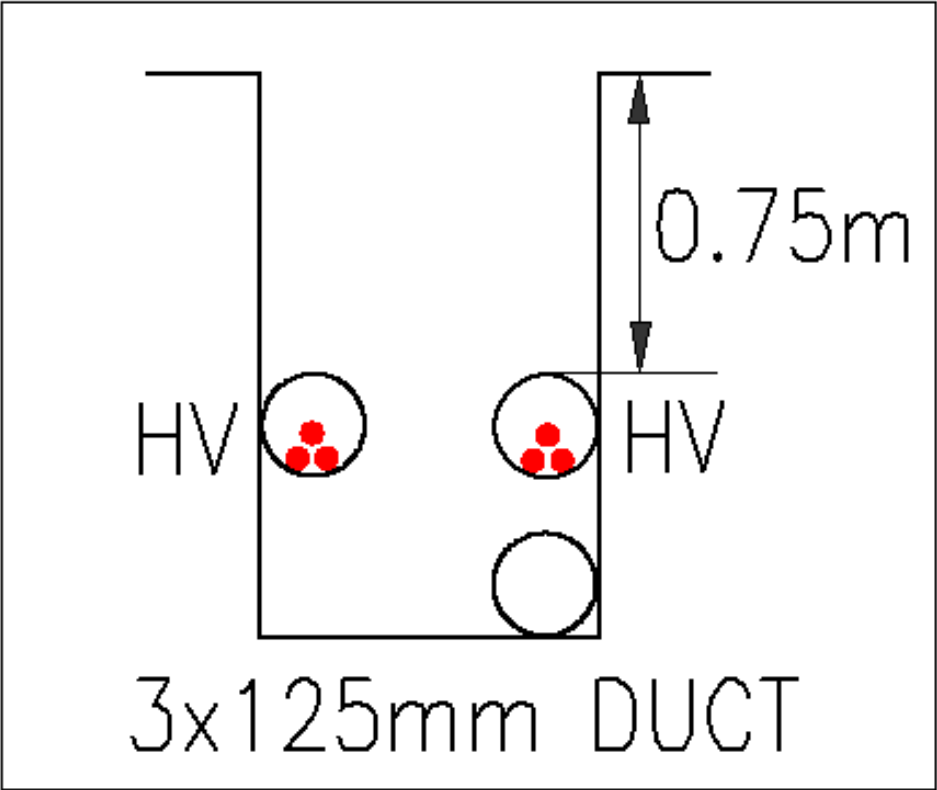
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UKDNLT17



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Cross Section : 2465473



Cross Section
2465473

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5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

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2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
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IF IN DOUBT - ASK! PHONE
0800 836 5846
EMERGENCY - If you damage
a cable or line
Phone 0800 732 5839 (24hrs)
UK POWER NETWORKS

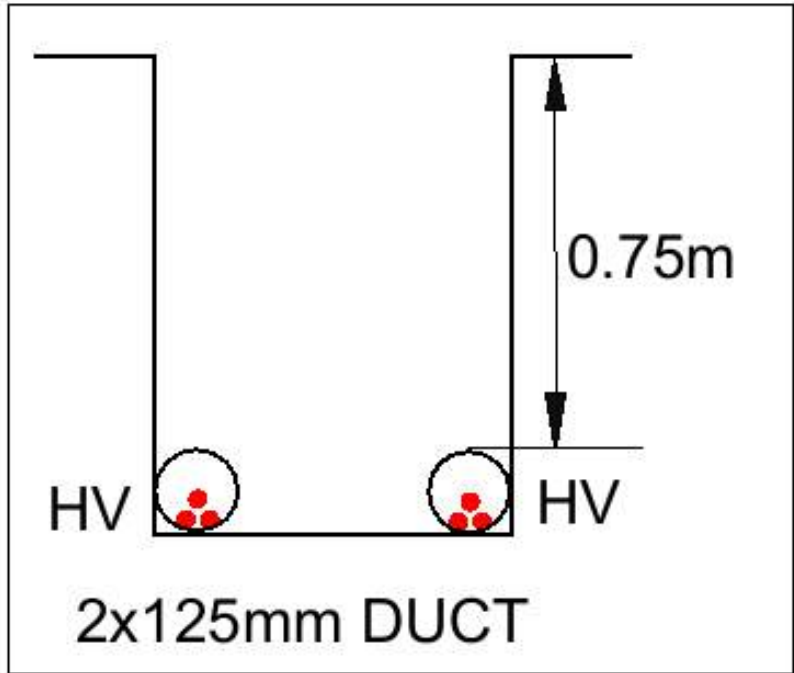


ALWAYS LOOK UP BEFORE
YOU START WORK
Refer to HSE Guidance note G56

Maps produced at 1:2500 scale are best-sightings which show electrical cables and
are fixed lines (or cable ducts or sockets). Prior to carrying out excavations, you must refer
to the 1:500 records to determine the location of all known underground plant and
equipment.



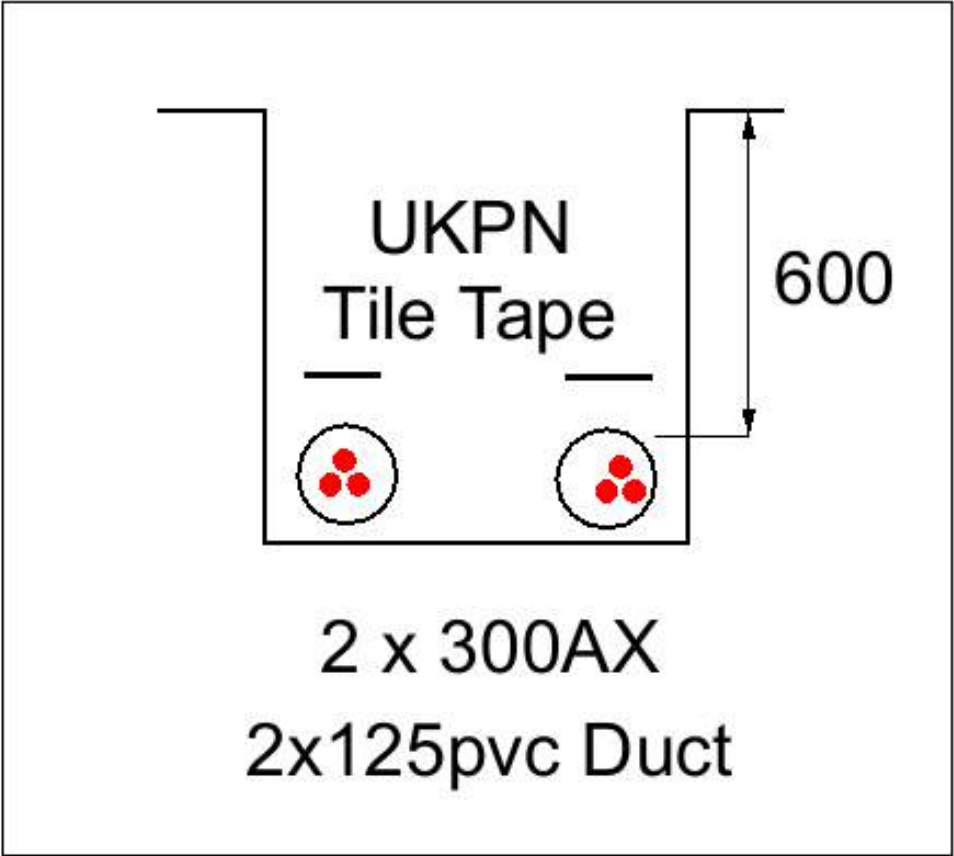
Cross Section : 2465472



Cross Section 2465472

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed. 2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools. 3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined. 4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc. 5. All cables must be treated as being live unless proved otherwise by UK Power Networks. 6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes. 7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.	1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk. 2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person. 3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever. 4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter. 5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.	IF IN DOUBT - ASK! PHONE 0800 836 5846 EMERGENCY - If you damage a cable or line Phone 0800 732 5839 (24hrs) UNIDENTIFY	UK Power Networks
	ALWAYS LOOK UP BEFORE YOU START WORK Refer to HSE Guidance note G56		
Maps produced at 1:2500 scale are best-sightings which show electrical cables and overhead lines (or some dated old drawings). Prior to carrying out excavations, you must refer to the 1:500 records to determine the location of all known underground plant and equipment.			

Cross Section : 2608919



Cross Section
2608919

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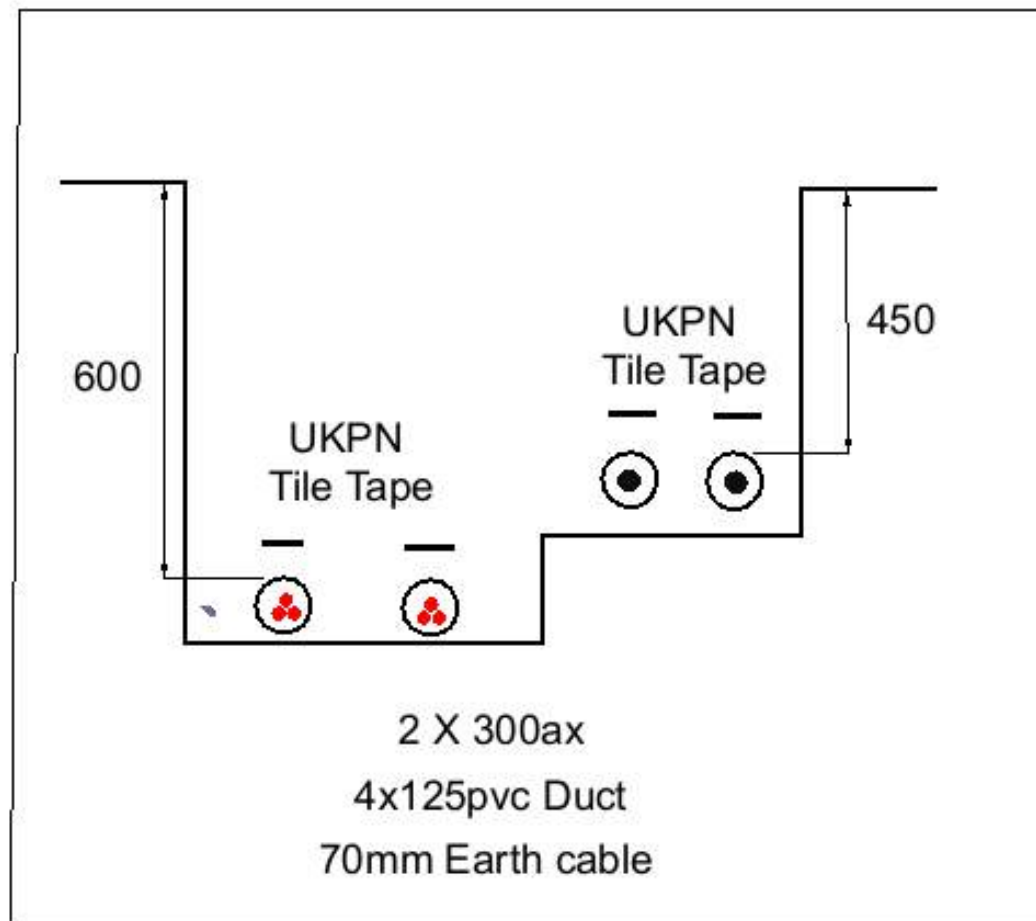
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UK POWER NETWORKS



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Cross Section : 2608916



Cross Section 2608916

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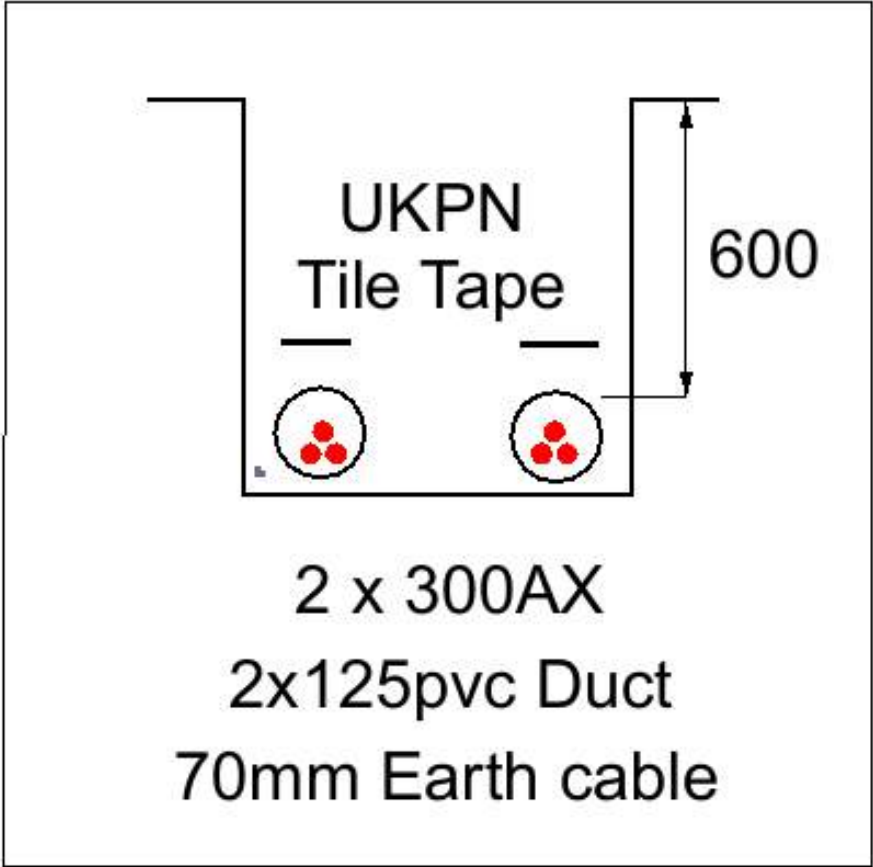
IF IN DOUBT - ASK! PHONE
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EMERGENCY - If you damage
a cable in line
Phone 0800 732 5839 (24 hrs)
UNIDENTIFY



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are produced from (or have taken all) sources prior to carrying out excavations. You must refer
to the 1:500 records to determine the location of all known underground plant and
equipment.

Cross Section : 2608920



Cross Section
2608920

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UKPNENTL7



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Maps produced at 1:2500 scale are best-sightings which show electrical cables and overhead lines (or cable ducts or sockets). Prior to carrying out excavations, you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

UK Power Networks Feedback Tool

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

All you need to do is:

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



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

UK Power Networks, working with LSBUD



Network Records NetMAP Symbols Booklet - South East England

Version 1.2

Released October 2010

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

Index:-

Page no:	Contents:
1	Guidance notes.
2	The area covered by this guide.
3	<u>1:500 (& 1:1250) view</u>
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4	Scenery (UK Power Networks use only).
7	Primary distribution line route (EHV).
8	Secondary distribution cables (HV/LV).
9	Secondary distribution cable terminology.
12	Cable ducts.
13	Poles.
14	EHV, HV and LV sites.
15	Joints.
16	Street furniture
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18	Connectivity.
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	Notes.
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24	Secondary distribution cables.
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27	Switch types.
28	<u>1:10000 view</u> (UK Power Networks use only).
	Notes.
29	Secondary distribution cables.
30	Primary and secondary sites.

Guidance notes.

Important notice:

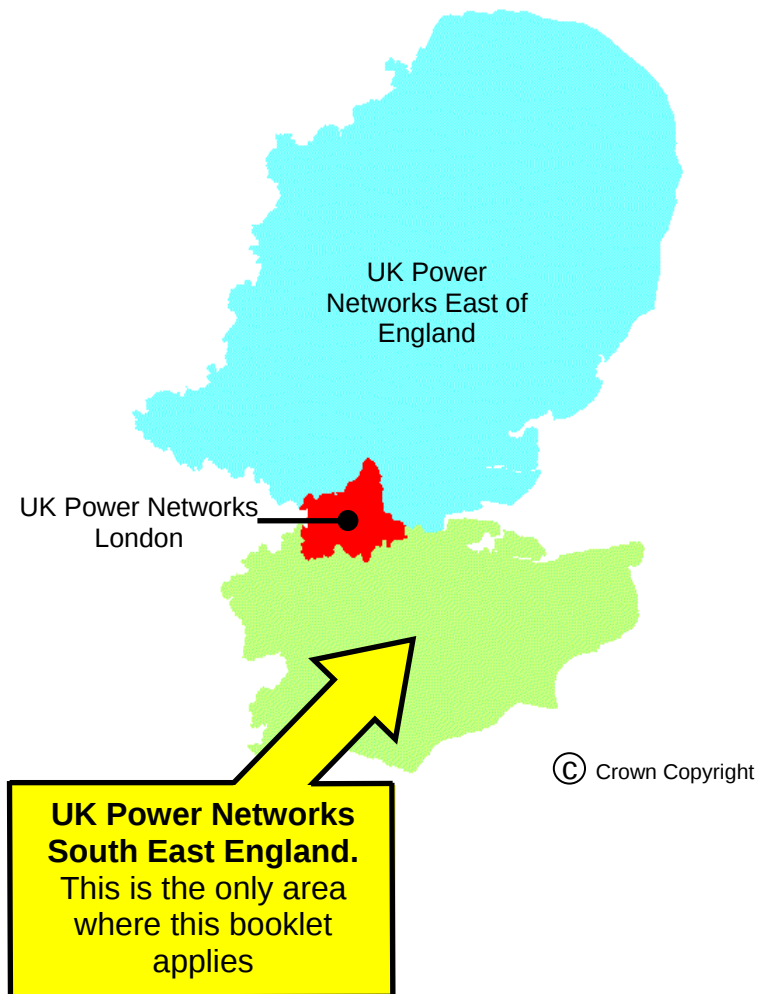
If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance on
Tel: 08000 565866.

- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc.
- Third party cables are not usually shown.
- When viewed in black and white, the line-style indicates the voltage.
- All LV cables are 4 core and all HV cables are 3 core – unless otherwise stated.
- All cables are copper – unless otherwise stated.



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

The area covered by this guide:



1:500 (& 1:1250) view

Scenery

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

Scenery for UK Power Networks use only - boxed in red

NetMAP system	Description
 Inset Network – Contact xxxx IDNO for further information	Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors)
	Proposed Cross Rail route (only visible to UK Power Networks and their immediate contractors)
	High pressure pipelines in the general vicinity (only visible to UK Power Networks and their immediate contractors)
Note: Pipelines are only viewable on NetMAP by UK Power Networks staff and their immediate contractors. Do not carry out any excavation without consent from the relevant agency - legally protected high pressure petroleum products pipeline route in the general vicinity - consult www.linewatch.co.uk for contacts and guidance. Pipeline contact numbers can also be found on the intranet – out of hours, contact our Control Centre.	
	Water - surface water (only visible to UK Power Networks and their immediate contractors)
	Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors)
	Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors)
	Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors)
section continued on next page	

Scenery for UK Power Networks use only - boxed in red

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

Scenery for UK Power Networks use only - boxed in red

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

Primary distribution line route (1:500 view)

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

Secondary distribution cables (1:500 view)

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

Secondary distribution cable terminology (1:500 view)

HV underground

sta	PILCSTA (paper insulated lead covered steel tape armour)
{no text}	PILCSWA (paper insulated lead covered steel wire armour)
XLPE	XLPE (cross linked polyethylene) insulation
bcs	CAS (corrugated aluminium sheath) belted construction
sca	CAS (corrugated aluminium sheath) with screened cores
ua	PILC (paper insulated lead covered) unarmoured
c/c	Concentric cores
Foly	Poly (polyethylene) insulation
BOTES	BOTES – Board of Trade earth screen
oF	Oil filled
33 kV design	Constructed to 33 kV specification
ac	Triplex with aluminium conductor
cx	Triplex with copper conductor

HV overhead

(no text)	Bare open wire
pvc	Open wire PVC covered
cat	ABC (aerial bundled or bunched conductor) with supporting strain wire
+ew	Open wire with extra earth conductor
ccc	Compact covered conductor

Overhead line materials

sca	Steel cored aluminium
cc	Cadmium copper
st	Steel
sil	Simulac
ccs	Copper covered steel
cpl	Compactol

section continued on next page

Secondary distribution cable terminology continued (1:500 view)

LV underground mains and services

W	Waveform
We	Waveform with separate earth wire
H	Hybrid – copper neutral with aluminium phase conductor
He	Hybrid with separate earth wire
ua	PILC (paper insulated lead covered) unarmoured
(no text)	PILC (paper insulated lead covered) with/without armour
XLPE	XLPE (cross linked polyethylene) insulation
DISTR	PISTA (paper insulated steel tape armour) 4c SAC (solid aluminium core) with lead covered neutral
c/c	Concentric cores
s/c	Split concentric with separated neutral and earth wires
CONSAC	Paper insulated aluminium sheathed 3 core with solid aluminium cores
vb	Vulcanised bitumen/rubber insulation
Capothene	Capothene core insulation
tby	Tape braid and yarn
swa	PILSWA (paper insulated lead steel wire armour)
sac	PILSTA (paper insulated steel tape armour) solid aluminium core
Solidal	4 sector SAC with solid aluminium cores
LSF	Low smoke and fume (orange cable)
Trough	Cable laid in filled trough

LV overhead mains and services

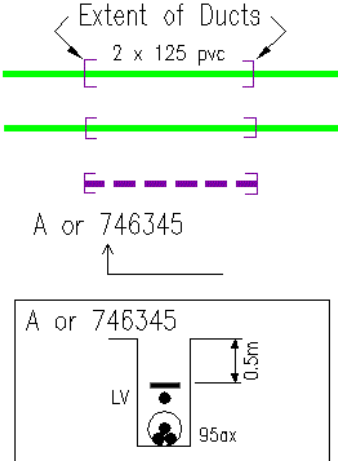
(no text)	Bare open wire
ABC	Aerial bundled (or bunched) conductor
cat	ABC (aerial bundled or bunched conductor) with supporting strain wire
pvc	PVC covered open wire
c/c	Concentric cores
H	Hybrid – copper neutral with aluminium phase conductor
ue	Under eaves – hessian covered lead cable
vir	Vulcanised India rubber insulation

section continued on next page

Secondary distribution cable terminology continued (1:500 view)

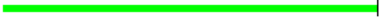
Various annotation	
.1	Cable size (sq. inches)
185	Cable size (sq. millimetres)
a	Aluminium
ITC	Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar

Cable ducts (1:500 view)

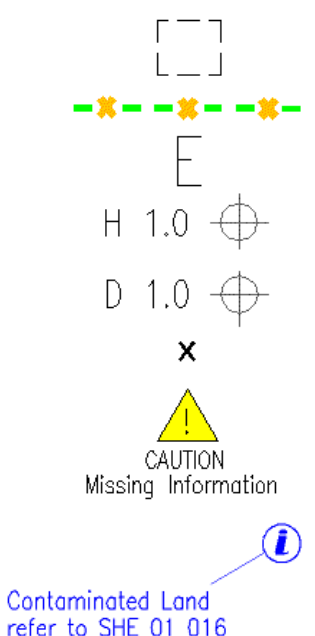
NetMAP system	Description
	Duct 2 way Duct 1 way (no text) Spare duct Cross section arrow Cross section showing: duct, tile depth, tile, single LV cable and HV Triplex cable
Duct materials	
(no text) pvc st asb fbr wi cp t/e	Earthenware PVC Steel Asbestos Fibre Iron Concrete pipe Trenchless excavation

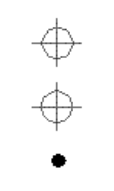
Poles (1:500 view)	
NetMAP system	Description
(5) 999999 	Section pole Pole number (unique) Single leg
	H pole
	3 member
	4 member
	Strut
	Pole support (stay)
	Flying stay
	Tower 33kV to 400kV

EHV, HV and LV sites (1:500 view)	
NetMAP system	Description
Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)	
 SITE NAME 33/11kV 003432	Ground mounted primary substation showing name, transformer voltage and SPENS number
 SITE NAME pmt 525123	Pole mounted substation showing name and SPENS number
 SITE NAME 523445	Ground mounted substation showing name and SPENS number
	2 way link box
	4 way link box
	Link box without busbar
	(options similar to 1:2500 view) LV distribution pillar
	Voltage regulator
	Voltage balancer
	Open point
	Open point – out of phase
	Overhead open point
Note: For LV linking, use the 1:2500 view	

Joints (1:500 view)	
NetMAP system	Description
       □ .1 .15 □ R – R Y – B B – Y	Straight (same for HV) Pot end (same for HV) Branch (same for HV) Sleeve repair Capped end Service to LV main Under eaves service Jointing phase drawing

Street furniture (1:500 view)	
NetMAP system	Description
    <u>Text displayed/description</u>  	Pole mounted street light Street light Zebra crossing Road sign Bollard Pelican crossing Traffic controller Advertising sign Amplifier station Control cubicle <u>Text displayed/description</u> Pay and display Bus shelter TBS Kiosk Water meter PL pillar TCB Unknown

Miscellaneous (1:500 view)	
NetMAP system	Description
 Contaminated Land refer to SHE 01 016	Underground chamber or draw pit Earth conductor Earth pin Height marker Depth marker Supply point Missing data in or near this location Contaminated land reference

Connectivity (1:500 view)	
NetMAP system	Description
	Edge node Node Connector Pole termination (nothing visible unless selected) Edge nodes, nodes, connectors and pole termination joints may not appear on screen unless turned on and selected.