

# UTILITIES SERVICES STATEMENT

## MILTON KEYNES EAST

### MARCH 2021





Berkeley St James Group Limited

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# MILTON KEYNES EAST

Utility Services Assessment





Berkeley St James Group Limited

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## **MILTON KEYNES EAST**

Utility Services Assessment

**PUBLIC**

**PROJECT NO. 70057521**

**OUR REF. NO. 70057521-UT1**

**DATE: MARCH 2021**

WSP

Grosvenor House  
2 Grosvenor Square  
Southampton  
SO15 2BE

Phone: +44(0) 23 8010 1700

WSP.com

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# QUALITY CONTROL

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Prepared by	Anthony Horswell	Anthony Horswell		
Signature				
Checked by	Bahadir Uyduran	Bahadir Uyduran		
Signature				
Authorised by	Bahadir Uyduran	Bahadir Uyduran		
Signature				
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# CONTENTS

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<b>1.</b>	<b>INTRODUCTION</b>	<b>1</b>
1.1.	BACKGROUND	1
1.2.	SITE LOCATION	1
1.3.	DEVELOPMENT PROPOSAL	2
1.4.	SCOPE OF WORK	3
1.5.	BASIS OF COST	4
1.6.	EXCLUSIONS	4
<b>2.</b>	<b>CONTACTS DIRECTORY</b>	<b>5</b>
2.1.	UTILITY PROVIDERS	5
<b>3.</b>	<b>ELECTRICITY INFRASTRUCTURE</b>	<b>6</b>
3.1.	EXISTING NETWORK	6
3.2.	NETWORK CAPACITY	6
3.3.	NETWORK MODIFICATIONS	7
3.4.	NEW INFRASTRUCTURE	7
3.5.	LEGAL TENURE	7
<b>4.</b>	<b>GAS INFRASTRUCTURE</b>	<b>8</b>
4.1.	EXISTING NETWORK	8
4.2.	NETWORK CAPACITY	8
4.3.	NETWORK MODIFICATIONS	8
4.4.	NEW INFRASTRUCTURE	8
4.5.	LEGAL TENURE	9
<b>5.</b>	<b>FOUL SEWERAGE</b>	<b>10</b>
5.1.	EXISTING NETWORK	10

---

5.2.	NETWORK CAPACITY	10
5.3.	NETWORK MODIFICATIONS	10
5.4.	NEW INFRASTRUCTURE	10
5.5.	LEGAL TENURE	11
<b>6.</b>	<b>POTABLE WATER INFRASTRUCTURE</b>	<b>12</b>
<hr/>		
6.1.	EXISTING NETWORK	12
6.2.	NETWORK CAPACITY	12
6.3.	NETWORK MODIFICATIONS	12
6.4.	NEW INFRASTRUCTURE	12
6.5.	LEGAL TENURE	12
<b>7.</b>	<b>TELECOMMUNICATIONS INFRASTRUCTURE</b>	<b>14</b>
<hr/>		
7.1.	EXISTING NETWORK	14
7.2.	NETWORK CAPACITY	14
7.3.	NETWORK MODIFICATIONS	14
7.4.	NEW INFRASTRUCTURE	14
7.5.	LEGAL TENURE	ERROR! BOOKMARK NOT DEFINED.
<b>8.</b>	<b>SUMMARY OF UTILITY INFRASTRUCTURE COSTS</b>	<b>15</b>
<b>9.</b>	<b>CONCLUSIONS</b>	<b>16</b>
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## **APPENDICES**

APPENDIX A WPD RESPONSE

APPENDIX B ANGLIAN WATER RESPONSE

APPENDIX C UTILITY RECORD PLANS

APPENDIX D UTILITY DIVERSIONS

APPENDIX E UTILITIES TRACKER

APPENDIX F PROPOSED HIF FOUL DRAINAGE AND UTILITY ROUTES

# 1. INTRODUCTION

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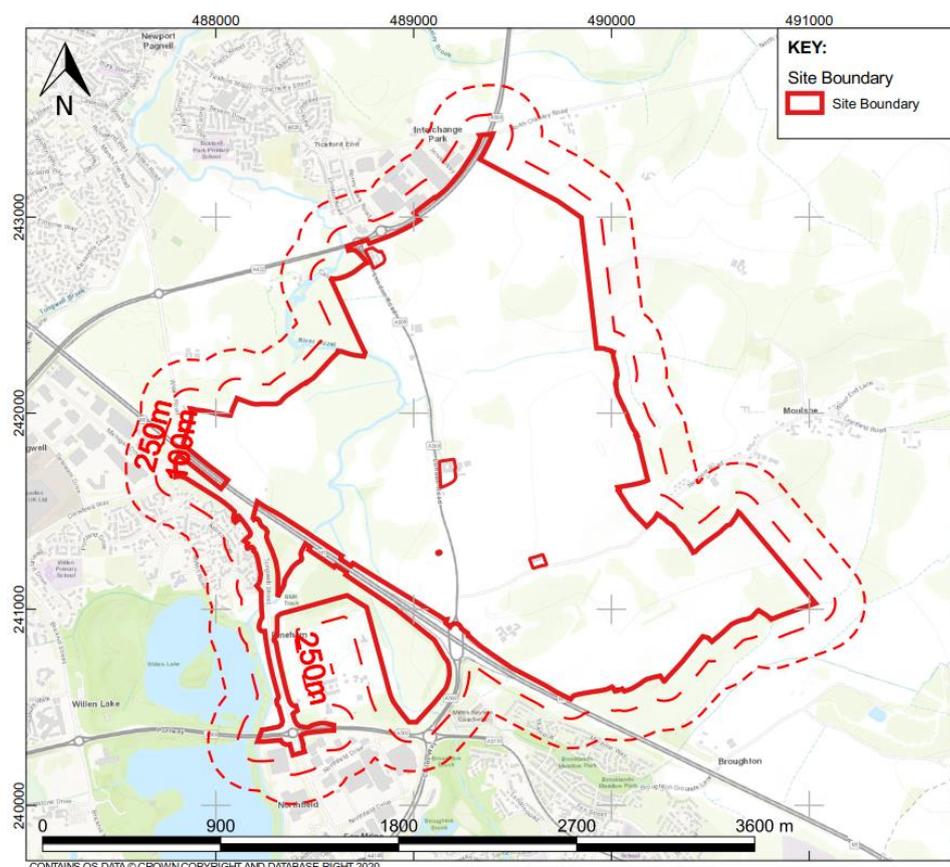
## 1.1. BACKGROUND

- 1.1.1. WSP UK Ltd (WSP) has been appointed by St James Group Ltd (St James) to prepare a utility services assessment to support the planning application for a large mixed use development located on the land to the east of the M1 Motorway at Milton Keynes, (Approximate Post Code: MK15 9LZ).
- 1.1.2. The proposed development, referred to as Milton Keynes East (MKE) will consist of at least 4,000 homes, with up to 403,650m<sup>2</sup> of employment uses, along with associated community facilities and infrastructure.
- 1.1.3. The objective of this report is to provide details of the utilities which are currently located within the development area and proposed supply strategies.

## 1.2. SITE LOCATION

- 1.2.1. The Site is located between the M1 which largely forms the southern boundary of the Site and the A422 which forms the northern boundary, with the River Ouzel flowing through the Site generally flowing north-west. Bordering the Site to the east is undeveloped land. The grid reference for the Site is 488630, 241770.
- 1.2.2. The Site is located between the M1 which largely forms the southern boundary of the Site and the A422 which forms the northern boundary. The grid reference for the Site is 488630, 241770, with a nearest postcode of MK15 9LZ. The Site has an area of 437.46 hectares.
- 1.2.3. The Site largely consists of undeveloped land and is bordered by:
  - The A422 to the north;
  - Agricultural land to the east;
  - The M1 Motorway to the south; and
  - Willen Road to the west.
- 1.2.4. The Site location plan is shown in figure below.

**Figure 1-1 - Site Location**



### 1.3. DEVELOPMENT PROPOSAL

1.3.1. The masterplan for the Scheme is shown in Figure 1-1 and provided in Appendix A and is expected to include:

- Up to 4,600 new homes;
- Approximately 80 hectares of employment land (including B2 and B8);
- A community hub including a range of shops and services;
- Other facilities within the Site such as allotments and burial space;
- A 10FE secondary school;
- 3 x 2/3FE primary schools;
- A linear park along the River Ouzel corridor;
- Access roads, pedestrian and cycle routes (along with the diversion and stopping up of existing routes within the Site);
- A new bridge over the M1 motorway, access route and other transport infrastructure connecting into Milton Keynes;
- A new bridge across the River Ouzel floodplain; and
- Associated infrastructure, drainage and other works.

**Figure 1-2 - Masterplan**



## **1.4. SCOPE OF WORK**

- 1.4.1. Utility companies that supply or transport gas, electricity, water, telecoms and wastewater disposal nationally or regionally were contacted requesting information of the possible presence of their apparatus within and adjacent to the Site.
- 1.4.2. The utility companies who responded showing existing apparatus have been reviewed to ascertain the potential constraints and risks associated with the development proposals.
- 1.4.3. An assessment of the utilities has been carried out for the Site to investigate the following issues;
  - The presence of existing utility apparatus on the Site that will require diversion in order to avoid imposition of unacceptable constraints to the development strategy;
  - The feasibility of either utilising existing utilities apparatus or bringing utilities apparatus to the Site through new connection points to serve future development;
  - Establishing decommissioning cost estimates;
  - Providing guidance on any necessary easement widths and no build zone requirements to protect existing strategic utilities, should there be a requirement for existing utilities to remain within the proposed development zone; and
  - Confirmation of network capacity and new supply challenges/issues associated with proposed development.

## 1.5. BASIS OF COST

- 1.5.1. A capacity assessment will be provided in this report which will include calculations for the supply demand for the proposed development for each utility service. A number of utility companies have been approached to provide budget cost estimates for the utility provision and to establish whether improvement works will be required to support the proposed development.
- 1.5.2. The supply demand estimations are based on standard assumptions for utility demand in regard to domestic units and commercial properties. The estimations were sent to the utility providers for a quote to connect to existing infrastructure and works for new infrastructure necessary to deliver the development.
- 1.5.3. The estimated costs for the infrastructure to deliver the development have been provided by the statutory undertakers upon our request for:
- Electricity from Western Power Distribution;
  - Potable water from Anglian Water; and
  - Sewerage from Anglian Water.

## 1.6. EXCLUSIONS

- 1.6.1. The following has been excluded from the scope of this assessment:
- On-Site utility conceptual strategies;
  - Detailed design/ construction stage services;
  - Local authority / utility fees and charges;
  - Third party network modelling studies and surveys;
  - Inflation from base date of cost estimates from utility providers to the commencement of the Site and during the construction period;
  - Additional legal and/or insurance charges.

## 2. CONTACTS DIRECTORY

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### 2.1. UTILITY PROVIDERS

2.1.1. The following Utility and Service Providers have been contacted to request information on the possible presence of their apparatus on the Site.

- Western Power Distribution [Electricity]  
Herald Way  
Pegasus Business Park  
Castle Donington  
DE74 2TU  
  
wpdnewsupplies@westernpower.co.uk
  
- Cadent [Gas]  
Brick Kiln Street  
Hinckley  
Leicestershire  
LE10 0NA  
  
Box.OTC.NONSTANDARD@cadentgas.com
  
- Anglian Water [Water Mains & Sewerage]  
Great Billing WRC  
23 Crow Lane  
Northampton  
NN3 9BX  
  
developmentservices@anglianwater.co.uk

### 3. ELECTRICITY INFRASTRUCTURE

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#### 3.1. EXISTING NETWORK

- 3.1.1. The Distribution Network Operator (DNO) for the area is Western Power Distribution (WPD). WPD has a number of both low voltage (LV) and high voltage (HV) assets located within and adjacent to the Site.
- 3.1.2. WPD records indicate HV infrastructure entering the Site over the M1 from Tongwell Street. The overhead cable splits approximately 200m into the Site, one overhead cable heads north out of the Site, the second overhead cable goes east towards London Road. The cable then heads south east, supplying the Holiday Inn and pumping station on London Road, as well as the existing buildings located on Newport Road.
- 3.1.3. HV and LV cables can be found crossing Tongwell Street, connected to the substation which is located to the north west of Cotton Valley Sewage Treatment Works (STW). A HV cable runs parallel to Tongwell Street, on the eastern side, from the substation down to Pineham Roundabout.
- 3.1.4. Additional WPD infrastructure can be located entering the Site from the north, down London Road. This infrastructure heads down London Road for approximately 400m, supplying Newport Stables and the existing dwellings.
- 3.1.5. To the south east of the Site there is an overhead HV cable which runs through the development for approximately 230m. The cable heads in a north easterly direction.
- 3.1.6. The A422 and A509, which form the northern boundary of the development, are indicated to contain several overhead and underground WPD cables within both sides of the road.
- 3.1.7. Record plans for electricity can be found in Appendix C and a schedule of the utilities within the site boundary can be found in Appendix E.

#### 3.2. NETWORK CAPACITY

- 3.2.1. WPD were contacted to provide a budget estimate to supply the development. There is currently not sufficient capacity within the local network to supply the development without a number of off-Site works, these are discussed below in chapter 3.4 New Infrastructure.
- 3.2.2. Utility demand assessments were conducted to find out the demand of electricity for the proposed developments. The results are shown below in table.

Phase	Load (kW)
Phase 1	17,091
Phase 2	6,669
Phase 3	11,920
<b>Total</b>	<b>35,680</b>

### 3.3. NETWORK MODIFICATIONS

- 3.3.1. All WPD infrastructure which is located within the Site boundary is currently anticipated to either require diversionary work or adequate protection or lowering.
- 3.3.2. WPD have been approached for diversion estimates for their assets. A response has not yet been received.
- 3.3.3. A drawing highlighting the assets which require diversionary works is found in Appendix D.

### 3.4. NEW INFRASTRUCTURE

- 3.4.1. The budget estimate received from WPD has detailed the following works which will be required to supply the development:
  - New 40MVA 33/11kV primary substation from Bletchley bulk supply point (BSP)
  - 9.5km EHV route and extension of switchboard at Bletchley
  - 11kV HV and LV network throughout development
  - 30 number 1MW on-Site distribution substations

- 3.4.2. WPD have been approached for a budget estimate, and attached as Appendix A. The cost is shown below:

Contestable Works	£18,883,594.31
Non-Contestable Works	£1,046,332.00
VAT at 20%	£3,985,985.26
<b>Total</b>	<b>£23,915,911.58</b>

- 3.4.3. Proposed utility routes and foul network within the HIF infrastructure is attached as Appendix F.

### 3.5. LEGAL TENURE

- 3.5.1. Wayleaves have been received for a number of WPD assets located within the Site boundary. References for these wayleaves are shown in Appendix E.
- 3.5.2. If new connections to the existing WPD cables was implemented, a freehold / lease agreement may be required. Please note the developers will need to investigate whether an easement has already been implemented for the third party land.

## 4. GAS INFRASTRUCTURE

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### 4.1. EXISTING NETWORK

- 4.1.1. Cadent Gas is the distribution network operator for the area.
- 4.1.2. Utility mapping information received from Cadent indicates that gas supply infrastructure is located only within London Road, entering the Site to the north from Tickford Roundabout and heading south for approximately 1250m and supplying the Holiday Inn.
- 4.1.3. Record plans for gas can be found in Appendix C and a schedule of the utilities within the site boundary can be found in Appendix E.

### 4.2. NETWORK CAPACITY

- 4.2.1. Utility demand assessments were conducted to find out the demand of gas for the proposed developments. The results are shown below:

Building	Estimated Annual Load (MWh)
Commercial	55874
School	3203
Community Hub	1134
<b>Total</b>	<b>60211</b>

- 4.2.2. Cadent have been approached for a budget estimate to supply the development. A response has not yet been received.

### 4.3. NETWORK MODIFICATIONS

- 4.3.1. The gas infrastructure will require lowering or protection works to ensure that they are not adversely affected by the constructions works taking place within London Road.
- 4.3.2. A drawing highlighting the assets which require diversionary works is found in Appendix D.

### 4.4. NEW INFRASTRUCTURE

- 4.4.1. New gas mains will be required within the Site to supply parts of the development, namely the educational buildings and commercial units.
- 4.4.2. Space heating and hot water will be provided by electricity in residential properties.
- 4.4.3. It is envisaged that network connections will be provided from the existing infrastructure within London Road.



4.4.4. Proposed utility routes and foul network within the HIF infrastructure is attached as Appendix F

## **4.5. LEGAL TENURE**

4.5.1. If new connection/s from the existing mains were to be implemented to feed the proposed/existing gas governors, a wayleaves/easement agreement may be required. Please note the developers will need to investigate whether wayleaves/easement are already in place for existing assets.

## 5. FOUL SEWERAGE

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### 5.1. EXISTING NETWORK

- 5.1.1. Anglian Water (AW) is the Water and Sewerage Company (WaSC) for the area.
- 5.1.2. AW sewer records indicate the presence of a 2.4m tunnel sewer within the development area. The sewer is the final effluent channel from Cotton Valley Sewage Treatment Works (STW) and travels north, through the west of the Site, and discharges to the River Great Ouse located 3.3km north of the sewage treatment works.
- 5.1.3. Dual 450mm rising mains are also located to the west of the development. The rising mains take effluent from Newport Pagnell Pumping Station, which is situated north of the A422, approximately 300m from the northern boundary of the Site.
- 5.1.4. Utility records also indicate a 150mm cast iron gravity sewer supplying the village of Moulsoe. The sewer flows west through the development, running parallel to Newport Road, towards the AW pumping station located within the Site boundary. The effluent is then pumped under the M1 to Cotton Valley STW.
- 5.1.5. Foul drainage record plans are found in Appendix C and a schedule of the utilities within the site boundary can be found in Appendix E.

### 5.2. NETWORK CAPACITY

- 5.2.1. A Pre-planning Assessment report has been received from AW. They have advised that their network does have capacity for the flows from the development. The Pre-planning Assessment is attached as Appendix B.

### 5.3. NETWORK MODIFICATIONS

- 5.3.1. The tunnel sewer and dual rising mains located to the west of the development will remain in-situ. Protection will be required to ensure that the AW assets are not damaged during any construction works.
- 5.3.2. The 150mm diameter gravity sewer, which serves Moulsoe, will be capped at the point where it enters the development. These existing flows will then be integrated into the proposed foul network.
- 5.3.3. The existing pumping station and rising main which are located within the development will be abandoned once the development is completed, however, will remain live in the interim.
- 5.3.4. A drawing highlighting the assets which require diversionary works is found in Appendix D.

### 5.4. NEW INFRASTRUCTURE

- 5.4.1. The Pre-planning Assessment received from AW has indicated that the closest point of connection suitable to handle the calculated discharge flows is a pumped connection directly to Cotton Valley STW.
- 5.4.2. The development will be required to pay an infrastructure charge of £570 for each new connection. Non-household units will be charged according to the number and type of water fittings.
- 5.4.3. It is proposed for the development to flow towards a terminal pumping station located on the site of the existing AW pumping station, which is located to the south of the development, within the site

boundary. The pumping station will be upgraded to manage the proposed flows of approximately 181 l/s and the existing flows from the village of Moulsoe.

- 5.4.4. Due to the topography of the Site, five pumping stations will be required throughout the development to enable the site to drain towards the terminal pumping station. The terminal pumping station will connect directly to Cotton Valley STW. The rising main which will connect the proposed terminal pumping station with Cotton Valley STW (running under the M1) will be requisitioned from AW under Section 98 of Water Industry Act 1981.
- 5.4.5. Based upon the current masterplan and existing levels, it is not currently envisaged that any foul water infrastructure will be located within the Eastern Link road.
- 5.4.6. Proposed utility routes and foul network within the HIF infrastructure is attached as Appendix F.

## **5.5. LEGAL TENURE**

- 5.5.1. Details of easements for the existing tunnel sewer and dual rising mains from Newport Pagnell pumping station are shown in Appendix E.
- 5.5.2. If new connections to/from the existing sewers were to be implemented to service the site, a wayleaves/easement agreement may be required. Please note the developers will need to investigate whether wayleaves/easement are already in place for existing assets.

## 6. POTABLE WATER INFRASTRUCTURE

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### 6.1. EXISTING NETWORK

- 6.1.1. AW is the WaSC for the area.
- 6.1.2. Asset records received from AW indicate the presence of potable water assets within London Road, a 90mm MDPE pipe flowing from Tickford Roundabout and supplying Newport Stables.
- 6.1.3. Additional infrastructure is located to the south of the development. A 125mm HPPE main enters the Site 300m south east of Junction 14 and flows in a north westerly direction, supplying the Old Stables and flowing to Newport Road. The main then continues up London Road and ends as a fire hydrant located just north of the Holiday Inn.
- 6.1.4. A 100mm AC pipe connects to the 125mm main at Newport Road and flows east, supplying the village of Moulsoe.
- 6.1.5. A 300mm DI pipe is located running parallel to Tongwell Street.
- 6.1.6. Potable water record plans are found in Appendix C and a schedule of the utilities within the site boundary can be found in Appendix E.

### 6.2. NETWORK CAPACITY

- 6.2.1. A Pre-planning Assessment report has been received from Anglian Water. AW have advised that their network does have capacity for the flows from the development. The Pre-planning Assessment is attached as Appendix B.

### 6.3. NETWORK MODIFICATIONS

- 6.3.1. All AW potable water infrastructure which is located within the site boundary is currently anticipated to either require diversionary work or adequate protection or lowering.
- 6.3.2. The existing main adjacent to Tongwell Street will require lowering or protection works to enable the proposed highway improvement works.
- 6.3.3. A drawing highlighting the assets which require diversionary works is found in Appendix D.

### 6.4. NEW INFRASTRUCTURE

- 6.4.1. The Pre-planning Assessment received from AW has indicated that the closest point of connection is the 300mm DI main on the A422 Monks Way near Tickford Roundabout. The connecting pipe should be 160m of 400mm HPPE. Off-site reinforcement works will be required.
- 6.4.2. New potable water infrastructure will be required within the development to supply the Site.
- 6.4.3. AW have estimated the on-site water main cost at £174,449.
- 6.4.4. Proposed utility routes and foul network within the HIF infrastructure is attached as Appendix F.

### 6.5. LEGAL TENURE

- 6.5.1. Wayleave information has been received for the potable water asset located to the north of A509 / London Road. The reference for this wayleave is shown in Appendix E.



- 6.5.2. If new connections to/from the existing mains were to be implemented to service the site, a wayleaves/easement agreement may be required. Please note the developers will need to investigate whether wayleaves/easement are already in place for existing assets.

## 7. TELECOMMUNICATIONS INFRASTRUCTURE

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### 7.1. EXISTING NETWORK

- 7.1.1. Utility mapping information highlights the existence of several telecommunications companies which have assets within and close to the development area. These are highlighted below:
- Openreach
  - Vodafone
  - Virgin Media
  - Zayo
  - Telent
- 7.1.2. Openreach, Virign Media and Zayo are located within the Site boundary and are located within the entirety of London Road and Newport Road.
- 7.1.3. Vodafone is indicated to exist to the north of the development, within A509 and A422.
- 7.1.4. Telent is the National Roads Telecommunications Service and is located to the south west of the M1.
- 7.1.5. Telecommuncation record plans are found in Appendix C and a schedule of the utilities within the site boundary can be found in Appendix E.

### 7.2. NETWORK CAPACITY

- 7.2.1. Openreach and Virgin both offer Fibre to the Premises (FTPP) connections and have both been approached to provide budget estimates.
- 7.2.2. Virgin Media have confirmed that they would be able to install the network free of charge.
- 7.2.3. Openreach have not yet responded but their website indicates that they would be able to supply the development for free as it is larger than 20 units.

### 7.3. NETWORK MODIFICATIONS

- 7.3.1. All telecommunications infrastructure which is located within the Site boundary is currently anticipated to either require diversionary work or adequate protection or lowering.
- 7.3.2. The Vodafone infrastructure will require diversionary work to enable the construction of the eastern link of the development
- 7.3.3. The Telent infrastructure will require diversionary work to enable the construction of the M1 bridge.
- 7.3.4. A drawing highlighting the assets which require diversionary works is found in Appendix D.

### 7.4. NEW INFRASTRUCTURE

- 7.4.1. New telecommunications infrastructure will be required within the development to supply the Site.
- 7.4.2. It is envisaged that network connections will be provided from the existing infrastructure within London Road.
- 7.4.3. Proposed utility routes and foul network within the HIF infrastructure is attached as Appendix F.

## 8. SUMMARY OF UTILITY INFRASTRUCTURE COSTS

8.1.1. A summary of the new infrastructure costs to support the proposed development can be found below in Table 8.1. The financial considerations only apply to the estimated cost of the utility connections. Further assessment will need to be included for costs to include legal prerequisites or consents to deliver the infrastructure.

Table 8.1 – Summary of Costs

Utility Provider	Infrastructure	Estimated Loading	Budget Cost Estimate
Western Power Distribution	Electricity	35680 kW	£23,915,911.58
Cadent	Gas	1856 kW/h	TBC
Anglian Water	Foul Water	Information not provided	Infrastructure charge of £570 per connection
Anglian Water	Potable Water	4500 dwellings + schools and commercial units	£174,449

## 9. CONCLUSIONS

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- 9.1.1. This report provides an assessment of ability of existing utility networks for electricity, gas, potable water and drainage to support the proposed development at Milton Keynes East. Budget cost estimates have been provided by WPD and Anglian Water. The assessment establishes that:
- All utility services have the capacity to supply the proposed development with changes/modifications to the existing network.
  - WPD has proposed works to their Bletchley BSP to enable suitable supply to the development. 30 substations will be required within the development for implementing the HV and LV infrastructure.
  - New gas infrastructure will be required to supply the Site. Awaiting response from Cadent.
  - Anglian Water has foul water network capacity and have identified the most suitable POC as a direct pumped connection to Cotton Valley STW under the M1.
  - Anglian Water has network capacity for potable water and identified the most suitable POC as the water main within Monks Way.
  - Existing telecommunications infrastructure is located throughout London Road and Newport Road. It is considered that the Site will be supplied from these existing networks.

Network modifications as described within the report will be required to deliver the utility infrastructure.

# Appendix A

## WPD RESPONSE



## Budget Estimate

Anthony Horswell  
WSP  
WSP  
2 Grosvenor Square  
Southampton  
Southampton  
SO15 2BE

Western Power Distribution  
Kilvey Road  
Brackmills Ind Estate  
NORTHAMPTON  
NN4 7BQ

Telephone: 01332 827496  
Email: [awilmot@westernpower.co.uk](mailto:awilmot@westernpower.co.uk)

**Our ref**  
3829054

**Date**  
16/12/2020

Dear Anthony Horswell,

### Budget Estimate for electricity connection works by Western Power Distribution (South West) plc ("WPD") for a 30MW Connection at Milton Keynes East London Road Milton Keynes Milton Keynes, MK16 0JA

Thank you for your recent enquiry. I am pleased to provide an indication of WPD's likely costs to carry out the connection works for you ("the Budget Estimate").

Our estimate for this work is based upon the information you have provided and is shown below.

Estimated Connection Charge		
	Contestable works	£ 18,883,594.31
	Non-Contestable works	£ 1,046,332.00
	VAT at 20 %	£ 3,985,985.26
	<b>Total</b>	<b>£ 23,915,911.58</b>

Non-Contestable works are those works that only WPD can undertake. It is possible for you to get someone else to quote for the contestable part of the works. For further information please visit our website: <https://westernpower.co.uk/Connections/Competition-in-Connections.aspx>

### Your supply will have the following electrical characteristics

Voltage	230 / 400 Volts
Phase	Three Phase
Agreed Import Capacity	30043kVA
Agreed Export Capacity	0kVA

Please note that the proposed works and estimated connection charge is for **guidance purposes** only and has been derived from a desk-top design exercise. It is non-binding and subject, in particular, to any legal permission, wayleaves and any other consents being successfully obtained. It is based on present day prices. It does not include the cost of any necessary on-site civil works, which should be provided by you at your expense.

### Enclosures

Please also find enclosed:

- Our summary document entitled "Budget Estimates - Your Budget Estimate Explained"
- A drawing showing the indicative point of connection (POC) of the new assets to our existing distribution system, in relation to the proposed development. Plan Number: GH3829054



Western Power Distribution (South Wales, West Midlands, East Midlands, South West) plc  
Registered in England and Wales No. (2366985, 3600574, 2366923, 2366894)  
Registered Office:  
Avonbank, Feeder Road, Bristol BS2 0TB

## Competition in Connections

The Budget Estimate is based upon WPD undertaking both the contestable and non-contestable connection works. You are able to seek competitive prices for some or all of the contestable elements.

You have the option to appoint an Independent Connection Provider (ICP) or Independent Distribution Network Operator (IDNO) to carry out some of the connection works, referred to as the Contestable Connection Works. Any connection works that can only be undertaken by WPD are referred to as Non-contestable Connection Works. See our enclosed Budget Estimate guide for more information.

## Proposed Connection Works

### Our estimate of the connection charge is for providing the following works:

New 40MVA 33/11kV Primary Substation fed from Bletchley BSP. EHV route length = 9.5km(approx) and extension of B switchboard at Bletchley assumed.

Extend 11kV network through new development and install 30 x 1MW substations. Extend LV network throughout site estimated 30km LV cable

4140 three phase cut outs

estimated 10m of service cable per service approx 41kM

It is assumed the onsite developer will complete the following activities

- All onsite excavation of cable routes
- All civils works to establish substation buildings

This budget includes no charges for reinforcement of the network which currently has capacity available however this area has a high demand for new load connections and upstream reinforcement may be required when you request a formal offer

Please note that these proposals are based upon a desk top provisional investigation and no site visit or detailed study has been carried out.

The estimate does not include costs for any reinforcement or diversionary work that may be required, or for any environmental, or stability studies which may also be necessary, although these are generally only required for larger capacity connections.

## Progression to Connection Offer stage

This Budget Estimate is not a legally binding contract, but sets out the amount we reasonably estimate we would require you to pay for the connection works under a formal Connection offer.

If you would like us to undertake a more detailed analysis, including an assessment of any network reinforcement required we can provide a formal Connection Offer. Further information regarding how to apply is provided in our enclosed summary guide.

Upon receipt of your application we will carry out detailed network studies to finalise the design of the connection works (and any associated reinforcement works), and provide a Connection Offer detailing the works required, the associated costs, timescales, payment terms and conditions for the connection.

If you have any queries regarding this Budget Estimate please do not hesitate to contact me via the contact details at the top of this letter.

Yours sincerely,

Andy Wilmot  
Primary Sys Des Eng



# Budget Estimates

Your Budget Estimate Explained

# A guide to help you understand your Budget Estimate and to outline your options for obtaining an offer to connect to WPD's Distribution System

Thank you for requesting a Budget Estimate for a connection to our distribution system. This guide is designed to help you understand the basis upon which the Budget Estimate is prepared and to highlight the options available to you should you wish to proceed to a formal offer for connection (the 'Connection Offer').

## Budget Estimate

Provision of a Budget Estimate is a free of charge service, the purpose of which is to give you an indication of the likely cost of your connection(s). We do not carry out any detailed design work and the assessment is carried out as a desktop exercise that does not take account of any site specific considerations. You should note that the estimate that we provide at this stage may vary significantly from the price subsequently calculated in any Feasibility Study or Connection Offer. This is because it does not include the costs for any necessary network reinforcement, changed circumstances, or other influencing factors that come to light when the detailed investigation is undertaken. A Budget Estimate is not a formal offer for connection and cannot be accepted by you.

## Exclusions from the Budget Estimate

Costs associated with the following activities are **NOT** included in the Budget Estimate:

- The diversion of our existing assets (if any) or any third party apparatus that is required
- Any associated reinforcement works
- Any on-site excavation and reinstatement
- The inclusion of any payment required in accordance with the Electricity (Connection Charges) Regulations 2017
- Any associated civil works, for example the provision of a substation plinth
- Detailed earthing studies are your responsibility
- Permits required under the Traffic Management Act 2004
- Out-of-hours working
- Legal requirements or consents
- Disturbing loads, for example motors, welders, electric vehicle chargers, heat pumps, etc.
- Any associated disconnections
- Any associated temporary supply
- Final competitive tenders and increases in labour, contract, or material costs
- Any required surveys, including any site survey

- Testing and commissioning (where applicable) that is undertaken in accordance with Engineering Recommendation G99 that must be witnessed by us
- Any impact on the transmission system and/or NGENSO requirements arising

## Application of the Electricity (Connection Charges) Regulations 2017 (ECCRs)

If your new electricity connection will connect to and utilise assets installed and paid for in respect to a previous connection the ECCRs may come in to effect. The ECCRs empower us to recover from you a proportion of those costs and refund the initial connection customer. Any calculated ECCR payments will be included in your Connection Offer.

## Ways to proceed

If you want to take your enquiry further there are a number of ways you can proceed. You can request:

- A Feasibility Study; or
- A formal Connection Offer; or
- A Study & Offer quotation (Distributed Energy Resources (DER) only – limitations apply)

## Feasibility Study

A Feasibility Study is generally used for more complex connections and involves a more detailed assessment that may consider a number of connection options. When more than one viable option is available we will provide estimated costs for each option. Once you have decided which option you would like to progress you can apply for a Connection Offer. There is a charge associated for this work; therefore we recommend you speak to your WPD contact first to find out more.

## Formal Connection Offer

If you request a Connection Offer we will undertake a more detailed assessment of the network, design the solution, including any reinforcement required and calculate the associated connection charge. The Connection Offer will include two options for acceptance. The first option will include a price for us to undertake all the connection works.

The second option will include a price for us to undertake just the works that only we are allowed to do; the 'non-contestable works'. You can get a competitive quotation for the remaining works; the 'contestable works' and may appoint an accredited Independent Connection Provider (ICP) to undertake these works. For further information please see our section on Competitions in Connections.

The Connection Offer is open for acceptance for 90 days and includes all our terms and conditions for connection. Once accepted it will become a binding contract between us.

The Connection Offer will include charges for the costs we incur in preparing it. For those Connection Offers that include an element of works at extra high voltage (22kV and above) we will charge you for the costs incurred regardless of whether or not you accept the Connection Offer (see 'Assessment & Design Fees' below).

### Study & Offer Process

If you are unsure of the capacity you wish to connect, a Study & Offer quotation allows you to assess the capacity options available without submitting multiple formal applications. Please note that this option is only available for generation connections with export capacity of 5MVA and above.

Each application allows up to three different capacity options you may require. We conduct a Feasibility Study for the approximate cost and works required to connect the generation to our network. This includes an indication of any reinforcement or diversionary works that may be required.

The standard application form should be completed as well as an additional covering form for the Study & Offer process. For more information [www.westernpower.co.uk/connections-landing/connection-offers-and-agreements/types-of-connection-offer](http://www.westernpower.co.uk/connections-landing/connection-offers-and-agreements/types-of-connection-offer)

### Assessment & Design Fees (A&D Fees)

If your proposed electricity connection requires work at 22kV and above we will charge you for the time we spend preparing the connection offer in accordance with the Electricity (Connection Offer Expenses) Regulations 2018, (the 'A&D Fee'). We will require payment even if you do not accept the Connection Offer. The charge covers costs we reasonably incur when assessing the impacts of the proposed connection on the distribution/transmission system, designing the connection (including any reinforcement works) and preparing the Connection Offer. Further information may be found on our website:

[www.westernpower.co.uk/connections-landing/connections-regulations-and-policy/electricity-connection-offer-expenses-regulations](http://www.westernpower.co.uk/connections-landing/connections-regulations-and-policy/electricity-connection-offer-expenses-regulations)

### How to apply

You can apply in writing via the following addresses:

#### Western Power Distribution (East & West Midlands)

Records Team  
6th Floor  
Toll End Road  
Tipton  
DY4 0HH  
[wpdnewsuppliesmids@westernpower.co.uk](mailto:wpdnewsuppliesmids@westernpower.co.uk)

#### Western Power Distribution (South Wales)

Records Team  
Phoenix Way  
Swansea Enterprise Park  
Llansamlet  
Swansea  
SA7 9HW  
[wpdnewsupplieswales@westernpower.co.uk](mailto:wpdnewsupplieswales@westernpower.co.uk)

#### Western Power Distribution (South West)

Records Team  
Lostwithiel Road  
Bodmin  
Cornwall  
PL31 1DE  
[wpdnewsupplies@westernpower.co.uk](mailto:wpdnewsupplies@westernpower.co.uk)

You can also apply **online**:

[www.westernpower.co.uk/connections-landing/connecting-dwellings-or-commercial-premises/apply-online-for-a-new-connection](http://www.westernpower.co.uk/connections-landing/connecting-dwellings-or-commercial-premises/apply-online-for-a-new-connection)

If you are unsure as to how to proceed you can also contact us to discuss your connection proposals further. Please see the 'Connection Appointments' section in this Guide.

### Competition in Connections (CiC)

We offer a complete and comprehensive connection service but, if you wish, there are other companies you may ask to undertake some of the work known as the 'contestable' work. ('Non-contestable' works are the elements of the connections work which must be completed by WPD). An Independent Connection Provider (ICP) can build electricity networks for adoption by us or by an Independent Distribution Network Operator (IDNO).

An IDNO is a company that can construct electricity networks, arrange connections to WPD's network or adopt networks built by ICPs then retains ownership of and be responsible for the operation, repair and maintenance of that new network.

The ICP must be registered with Lloyds Register EMEA under the National Electricity Registration Scheme (NERS) and they are required to work in accordance with the national framework and WPD documents that provide specifications for design, material procurement and installation and recording of assets.

The new connection (up to the start of your electrical installation) will be adopted by us (where no IDNO is involved) and become part of our electricity network on satisfactory final inspection, testing and connection. We will own the new connection from that time, and will take responsibility for future operation, repair, maintenance and replacement (subject to any guarantee requirements of the Adoption Agreement). More information regarding Competition in Connections can be found on our website at [www.westernpower.co.uk/connections-landing/competition-in-connections](http://www.westernpower.co.uk/connections-landing/competition-in-connections)

### Safety

If you are already on site, or about to move on to site, please remember to take adequate precautions to protect yourself from potential electrical hazards.

### Overhead Lines

Particular care must be taken in the handling of mechanical plant, cranes, scaffolding or ladders in the vicinity of our overhead lines. You should always seek guidance before any work takes place on site from your appointed Site Manager, who will ensure that all works are carried out safely and in accordance with Health and Safety Guidance Instruction GS6 – Avoidance of Danger from Overhead Electric Power Lines. ([hse.gov.uk/pubns/gs6.htm](http://hse.gov.uk/pubns/gs6.htm))

### Safe Excavation

Obtain the latest copies of our cable records for the site from [linesearchbeforeudig.co.uk](http://linesearchbeforeudig.co.uk). You must excavate by hand digging trial holes to establish the actual positions of all cables before any mechanical excavation works commence. Please contact your

Site Manager who will help you ensure that all your works are carried out safely and in accordance with Health and Safety Guidance Instruction HSG47 – Avoiding Danger from Underground Services. ([hse.gov.uk/pubns/gs47.htm](http://hse.gov.uk/pubns/gs47.htm))

### Legal Permissions and Consents

We have a legal obligation to provide new electricity connections, as well as to maintain and upgrade the existing distribution system in our area. For a new connection we need land rights to install and thereafter use, maintain and renew our equipment on privately owned land. When this is necessary we secure our equipment by legal agreement (Wayleaves and/or Deeds) with landowners. This helps to ensure that the

equipment stays where it has been placed and can be maintained when necessary.

All land rights/legal and consents must be in place before we install and energise a new connection to our network. It is important that customers/developers are aware that the statutory process for acquiring compulsory land rights can be time consuming, it is not guaranteed to be successful and could be extremely costly. For this reason you should be prepared and if a third party is involved in the scheme, to start the negotiations before instructing us to pursue the compulsory land rights process.

**Please note that we cannot energise our equipment until land rights are legally secured.**

Please see the Legal Process on our website – [www.westernpower.co.uk/connections-landing/legal-permissions-and-consents](http://www.westernpower.co.uk/connections-landing/legal-permissions-and-consents)

### National Grid Electricity System Operator (NGESO) – The Electricity Transmission System

Larger installations, (typically generation requiring 1MW of export capacity and above and demand requiring 10MW of import capacity and above) may have an impact on the National Grid Electricity System Operator (NGESO) transmission system. Although we may flag any existing limiting network conditions in your Budget Estimate, it does not take account of any impact of the proposed connection(s) on the transmission system, including the outcome of any modification application that we may be required to submit to NGESO.

We may be required to request a ‘Statement of Works’ from NGESO in accordance with section 6.5.5, or a Modification in accordance with section 6.9 of the Connection and Use of System Code (the “CUSC”) in order to ascertain the effect of the proposed connection on the transmission system. On receipt of this request, NGESO will consider, in accordance with the CUSC, whether or not a formal modification application is required.

For further information concerning the Statement of Works process please see our website – [www.westernpower.co.uk/our-network/statement-of-works](http://www.westernpower.co.uk/our-network/statement-of-works)

### Further Network Information

We have a large range of network asset data available for access by third party users through a variety of services.

### Constraint Maps

The constraint map provides an overview of our EHV networks (33kV and above), highlighting those circuits which are operating at or near their limits for the connection of any further Distributed Generation (DG). Please see the constraint maps for all four WPD areas on our website – [www.westernpower.co.uk/our-network/distributed-generation-ehv-constraint-maps](http://www.westernpower.co.uk/our-network/distributed-generation-ehv-constraint-maps)

### Network Capacity Maps

The network capacity map provides an indication of the networks capability to connect large-scale developments to major substations. The network capacity map is a guide to show the network where a connection is more likely to be achieved without significant reinforcement.

The map does not replace a full Formal Application in determining network capacity.

Please see the capacity map on our website for a login – [www.westernpower.co.uk/our-network/network-capacity-map](http://www.westernpower.co.uk/our-network/network-capacity-map)

### Alternative Connections

WPD offers alternative connections, which enable customers willing to have their capacity temporarily reduced to connect ahead of the required reinforcement without contribution. The level of curtailment experienced by the connection can be fixed or dynamic, depending on the type of alternative connection offered.

Please see alternative connections webpage – [www.westernpower.co.uk/connections-landing/connection-offers-and-agreements/alternative-connections](http://www.westernpower.co.uk/connections-landing/connection-offers-and-agreements/alternative-connections)

### Flexible Power - Flexibility

DNO's are committed to openly comparing reinforcement and market flexibility, it has become one of the new fast moving areas when it comes to managing electricity distribution networks.

Any significant reinforcement scheme once at feasibility study or formal offer stage will require a flexibility assessment.

For more information, please visit

[www.westernpower.co.uk/network-flexibility-map](http://www.westernpower.co.uk/network-flexibility-map)

### Connection Appointments

Make an appointment with an engineer to discuss your requirements and the connection process ahead of making an actual application for a connection to the network.

To find out more or make an appointment

Call;

South Wales & South West: **0800 028 6229**

East & West Midlands: **0800 121 4909**

Email: [wpdconnectappoint@westernpower.co.uk](mailto:wpdconnectappoint@westernpower.co.uk)

Western Power Distribution (East Midlands) plc, No2366923  
Western Power Distribution (West Midlands) plc, No3600574  
Western Power Distribution (South West) plc, No2366894  
Western Power Distribution (South Wales) plc, No2366985  
Registered in England and Wales  
Registered Office: Avonbank, Feeder Road, Bristol BS2 0TB

[wpdconnectionspolicy@westernpower.co.uk](mailto:wpdconnectionspolicy@westernpower.co.uk)

[www.westernpower.co.uk](http://www.westernpower.co.uk)  [@wpduk](https://twitter.com/wpduk)





# Appendix B

## **ANGLIAN WATER RESPONSE**



# Pre-planning Assessment Report

## Milton Keynes East Berkeley Homes

**InFlow Reference: PPE-0099339**

**Assessment Type: Water & Used Water**

**Revised report published: 08/09/2020**



Thank you for submitting a pre-planning enquiry.

This report has been produced for WSP

Your InFlow reference number is PPE-0099339

If you have any questions upon receipt of this report, please contact the Pre-development team on **03456 066 087** or email [planningliaison@anglianwater.co.uk](mailto:planningliaison@anglianwater.co.uk).

## Section 1

### Proposed Development

The response within this report has been based on the following information which was submitted as part of your application:

List of planned developments	
Type of development	No. Of units
Shops	1
Restaurants & Cafes	1
Business	1
Storage or distribution	1
Residential institution	1
Assembly and leisure	1
Dwellings	4500

Anticipated build rate:

Year	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12
Build Rate	50	100	200	200	200	200	150	200	200	200	200	2610

Development type: Greenfield

Planning application status: Unknown

Site grid reference number: SP 89391 42003

The comments contained within this report relate to the public water mains and sewers indicated on our records.

Your attention is drawn to the disclaimer in the useful information section of this report.

## Section 2 Assets affected

Our records indicate that we have the following types of assets within or overlapping the boundary of your development site as listed in the table below

Additionally, it is highly recommended that you carry out a thorough investigation of your proposed working area to establish whether any unmapped public or private sewers and lateral drains are in existence. We are unable to permit development either over or within the easement strip without our prior consent. The extent of the easement is provided in the table below. Please be aware that the existing water mains/public sewers should be located in highway or open space and not in private gardens. This is to ensure available access for any future maintenance and repair and this should be taken into consideration when planning your site layout

Water and Used Water Easement Information		
Asset Type	Pipe Size (mm)	Total Easement Required (m)
Sewer Mains	150mm	3.0m either side of the centre line
Sewer Rising Mains	Unknown	6.0 m either side of the centre line
Sewer Rising Mains	Unknown	6.00 m either side of the centre line
Water Mains	100mm	4.50 m either side of the centre line
Water Mains	125mm	4.50 m either side of the centre line

If it is not possible to avoid our assets then these may need to be diverted in accordance with Section 185 of the Water Industry Act (1991). You will need to make a formal application if you would like a diversion to be considered

### Pumping Station

The development site is within 15 metres of a sewage pumping station. This asset requires access for maintenance and will have sewerage infrastructure leading to it. For practical reasons therefore it cannot be easily relocated. Anglian Water consider that dwellings located within 15 metres of the pumping station would place them at risk of nuisance in the form of noise, odour or the general disruption from maintenance work caused by the normal operation of the pumping station. The site layout should take this into account and accommodate this infrastructure type through a necessary cordon sanitaire, through public space or highway infrastructure to ensure that no development within 15 metres from the boundary of a sewage pumping station if the development is potentially sensitive to noise or other disturbance or to ensure future amenity issues are not created. Due to the private sewer transfer in October 2011 many newly adopted public used water assets and their history are not indicated on our records. You also need to be aware that your development site may contain private water mains, drains or other assets not shown on our records. These are private assets and not the responsibility of Anglian Water but that of the landowner

### **Section 3 Water supply**

In examining the available capacity for your development site we assess the capacity and costs for two categories of water main. These are:

#### **Strategic**

These are the offsite potable water mains which deliver water within an area to a large number of development sites often across a number of towns. The strategic provision of these water mains enables us to provide of the cheapest solution across a large geographical area.

#### **Local reinforcement**

These are localised reinforcement mains to enable us to provide water to your development site.

On most sites we also have two categories of water mains the Spine Mains and Housing Estate Mains (HEMs). To support your budgeting arrangements we have also examined the estimated cost for delivering the onsite water mains needed for a site of your size.

#### **Water supply network**

Your site will benefit from the strategic water main(s) as listed below. This strategic scheme has been designed to cater for the predicted growth in this area. In addition, there is also insufficient capacity in the localised network to supply your site and therefore offsite local reinforcements are needed. Details of the necessary upgrades can be found in the water infrastructure section of this report and the cost of these works are included in the infrastructure charge. If you wish to proceed with the development then you will need to complete an application for a new supply.

This is recommended to be done at the earliest opportunity as it could take a minimum of 18 months to install any offsite reinforcement works. The connection point for the site will be from the existing water main in Monks Way (A422) east of river.

The requested preferred connection point is to the 125mm MDPE on London Road (A509) which terminates outside the hotel, this does not have capacity to supply such a large development. The existing network can currently supply a maximum of 20 dwellings from the 125mm MDPE main after that the new 400mm site supply must be laid and the offsite mains reinforcements on Monks Way start to be required.

The site should be connected to the 300mm DI/CM main on the A422 Monks Way on the east side of the river Ouzel near the Tickford Roundabout with a 400mm HPPE SDR17 connection and pipework. As part of the connection it must also include a 250mm DMA meter with telemetry

## Water infrastructure & costs

In order to supply your site, the following upgrades are required:

Local reinforcement water main	Based on
Milton Keynes East Growth	1. (IMW route circa 2775m in total (incl twin drill shot M1) : 854m 355mm Type 1 road with 1x100m Drill shot, 585m field 355mm. 721m 400mm field plus 2x100m 400mm drill shots (1 rd 1 river crossing). 2. Upsize meter NPR1WM and pipework to 450mm HPPE pipework with a 300mm meter at Willen Road junction Monks Way roundabout. Grid ref SP8770642657 3. 2x 150m (300m total) 500mm HPPE pipe slipped with 2 x355mm
MK East connection	To connect development to the network requires 160m of 400mm HPPE SDR17 from the 300mm DI/CM across the dual carriageway and along London Road to the site boundary. Start grid ref SP8865742864, end grid ref SP8876542769. The connection to the network must also include a 250mm DMA meter with telemetry.
Monks Way growth	1.15km of 450mm HPPE reinforcement of the existing 450mm AC main on Monks Way between Watling Street and the A5, from the 600mm DI at Centurion Court north east along Monks Way to the 450mm AC main west side of Abbey Hill roundabout of Monks Way with the A5. Start grid ref SP8110738761, end grid ref SP8195239387

Your development site will be required to pay an **infrastructure charge** for each new property connecting to the public sewer that benefits from Full planning permission.

You will be required to pay an infrastructure charge upon connection for each new plot on your development site. The infrastructure charge are types of charges set out in Section 146(2) of the Water Industry Act 1991

The charge should be paid by anyone who wishes to build or develop a property and is payable upon request of connection.

Payment of the infrastructure charge must be made before premises are connected to the public sewer.

Infrastructure charge for water	Anglian Water supply	<b>£340.00</b>
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The **infrastructure discount** is a new element, introduced to reflect the changes in Ofwat's charging rules.

The discount is **£400** for each connection to the water supply network in the Anglian and Hartlepool Water area.

Due to the changes in the charging rules, any discount must now be applied to the infrastructure charge rather than the requisition charge. This has provided us the opportunity to offer the discount (via the infrastructure charge) not just to water main requisitioners, but to those seeking water connections too.

Infrastructure charges are raised on a standard basis of one charge per new connection (one for water and one for sewerage). However, if the new connection is to non- household premises, the fixed element is calculated according to the number and type of water fittings in the premises. This is called the "relevant multiplier" method of calculating the charge.

For commercial developments, details of the relevant multiplier for each fitting can be found at our [website](#).

The total infrastructure charge for your dwellings is:

Infrastructure charge	Number of units	Total
£340.00	4500	£ 1,530,000.00

The infrastructure discount for your dwellings is:

Infrastructure discount	Number of units	Total
-£400.00	4500	-£1,800,000.00

The estimated cost for the onsite water main for your development is:

Onsite water main	£
Estimated cost of delivery	£174,449.00

Please note, a detailed cost breakdown will be provided on receipt of a formal application for a new water main. Alternatively, you may wish to have the onsite main delivered by a Self-lay Provider under terms set out in a self-lay agreements.

For more information on water mains and self-lay of water mains, please visit our [website](#)

## **Section 4 Water recycling services**

In examining the used water system we assess the ability for your site to connect to the public sewerage network without causing a detriment to the operation of the system. We also assess the receiving water recycling centre and determine whether the water recycling centre can cope with the increased flow and influent quality arising from your development.

### **Water recycling centre**

The foul drainage from this development is in the catchment of Cotton Valley Water Recycling Centre, which currently does have capacity to treat the flows from your development site.

### **Used water network**

Our assessment has been based on development flows connecting to the nearest accessible foul water sewer of the same size or greater pipe diameter to that required to drain the site. The infrastructure to convey foul water flows to the receiving sewerage network is assumed to be the responsibility of the developer.

Conveyance to the connection point is considered as Onsite Work and includes all work carried out upstream from of the point of connection, including making the connection to our existing network. This connection point has been determined in reference to the calculated discharge flow and on this basis, the nearest network connection point that meets these criteria is a pumped solution direct to Cotton Valley Water Recycling Centre at National Grid Reference NGR SP8857540629. This is the recommended connection point. Due to the size of your proposed development, in order to define a feasible foul water drainage strategy, we will need to understand your onsite drainage design in greater detail. Therefore, we would like to arrange a meeting to examine the available options and establish an effective strategy. Mark Rhodes, our Pre-Development Senior Engineer for this area and will be responsible for evaluating the foul water drainage strategy.

We'd grateful if you could advise Mark of your availability for a meeting (Microsoft Teams or Zoom). For your reference, Mark can be contacted at 07980756440 or [mrhodes@anglianwater.co.uk](mailto:mrhodes@anglianwater.co.uk) Please note that Anglian Water will request a suitably worded condition at planning application stage to ensure this strategy is implemented to mitigate the risk of flooding

### **Surface water disposal**

You indicated on the Pre-Planning Application form that a connection to the public surface water sewer network is not required as infiltration and a connection to a watercourse is to be utilised. A new surface water sewer can be used as a mechanism to discharge surface water to a watercourse or as part of a Suds scheme where appropriate. Subject to the sewer being designed in accordance with the current version of Sewers For Adoption, the sewer can be put forward for adoption by Anglian Water under Section 104 of the Water Industry Act 1991. If the outfall is to a watercourse, the applicant will be required to obtain consent to discharge via the appropriate body.

Therefore, a capacity assessment has not been made on the public surface water network. However, should this situation change and you wish to have a surface water connection assessment on the local network, then we will provide this free of charge if requested within 12 months of this report and you are able to provide the relevant evidence that your original strategy was unviable

As you may be aware, Anglian Water will consider the adoption of SuDs provided that they meet the criteria outline in our SuDs adoption manual. This can be found on our website at <http://www.anglianwater.co.uk/developers/suds.aspx>. We will adopt features located in public open

space that are designed and constructed, in conjunction with the Local Authority and Lead Local Flood Authority (LLFA), to the criteria within our SuDs adoption manual. Specifically, developers must be able to demonstrate:

1. Effective upstream source control,
2. Effective exceedance design, and
3. Effective maintenance schedule demonstrating that the assets can be maintained both now and in the future with adequate access.

If you wish to look at the adoption of any SuDs then an expression of interest form can be found on our [website](#).

The proposed method of surface water disposal is not relevant to Anglian Water; we suggest that you contact the relevant Local Authority, Lead Local Flood Authority, the Environment Agency or the Internal Drainage Board, as appropriate.

### Trade Effluent

We note that you do not have any trade effluent requirements. Should this be required in the future you will need our written formal consent. This is in accordance with Section 118 of the Water Industry Act (1991).

### Used Water Budget Costs

Your development site will be required to pay an infrastructure charge for each new property connecting to the public sewer that benefits from Full planning permission.

You will be required to pay an infrastructure charge upon connection for each new plot on your development site. The infrastructure charge are types of charges set out in Section 146(2) of the Water Industry Act 1991

The charge should be paid by anyone who wishes to build or develop a property and is payable upon request of connection.

Payment of the infrastructure charge must be made before premises are connected to the public sewer.

Infrastructure charge for water recycling: **£570.00**

The total infrastructure charge payable for your site for water is:

Infrastructure charge	Number of units	Total
£570.00	4500	£ 2,565,000.00

Infrastructure charges are raised on a standard basis of one charge per new connection (one for water and one for sewerage). However, if the new connection is to non-household premises, the fixed element is calculated according to the number and type of water fittings in the premises. This is called the "relevant multiplier" method of calculating the charge.

Details of the relevant multiplier for each fitting can be found at our [website](#).

It has been assumed that the onsite used water network will be provided under Section 104 of the Water Industry Act

It is recommended that you also budget for connection costs.

Please note that we offer alternative types of connections depending on your needs and these costs are available at our [website](#).

### Section 5 Map of proposed connection points



Figure 1: Showing your water point of connection

### Section 6 Useful information

#### Water Industry Act – Key Water Sections:

##### Section 41

This provides you with the right to requisition a new water main for domestic purposes to connect your site to the public water network.

##### Section 45

This provides you with the right to have a connection for domestic purposes from a building or part of a building to the public water main.

##### Section 51A - E

This provides you with the right to provide the water main or service connection yourself and for us to vest them into our company.

##### Section 55

This applies where you request a supply of water for non-domestic purposes.

### **Section 185**

This provides you with the right to make a reasonable request to have a public water main, sewer or public lateral drain removed or altered, at your expense.

Details on how you can make a formal application for a new water main, new connection or diversion are available from our Development Services team on **03456 066 087** or via our [website](#)

If you have any other queries on the rights to requisition or connect your housing to the public water and sewerage infrastructure then please contact our Development Services team at:

Development Services

Anglian Water

PO Box 495

Huntingdon

PE29 6YY

Telephone: 0345 6066 087

Email: [developmentservices@anglianwater.co.uk](mailto:developmentservices@anglianwater.co.uk)

### **Water pressure and flow rate**

The water pressure and consistency that we must meet for your site is laid out in the Water Industry Act(1991). This states that we must supply a flow rate of 9 litres per minute at a pressure of 10 metres of head to the external stop tap. If your water pressure requirements exceed this then you will need to provide and maintain any booster requirements to the development site.

Self-lay of Water Mains: A list of accredited Self-lay providers organisations can be found on the Lloyds Registrar [website](#) .

### **Water Industry Act – Key Used Water Sections:**

#### **Section 98:**

This provides you with the right to requisition a new public sewer. The new public sewer can be constructed by Anglian Water on your behalf. Alternatively, you can construct the sewer yourself under section 30 of the Anglian Water Authority Act 1977.

#### **Section 102:**

This provides you with the right to have an existing sewerage asset vested by us. It is your responsibility to bring the infrastructure to an adoptable condition ahead of the asset being vested.

#### **Section 104**

This provides you with the right to have a design technically vetted and an agreement reached that will see us adopt your assets following their satisfactory construction and connection to the public sewer.

## **Section 106**

This provides you with the right to have your constructed sewer connected to the public sewer.

## **Section 185**

This provides you with the right to have a public sewerage asset diverted.

Details on how to make a formal application for a new sewer, new connection or diversion are available on our [website](#) or our Development Services team on 03456 066 087.

## **Sustainable drainage systems**

Many existing urban drainage systems can cause problems of flooding, pollution or damage to the environment and are not resilient to climate change in the long term.

Our preferred method of surface water disposal is through the use of Sustainable Drainage Systems or SuDS.

SuDS are a range of techniques that aim to mimic the way surface water drains in natural systems within urban areas. For more information on SuDS, please visit our [website](#)

We recommend that you contact the Local Authority and Lead Local Flood Authority (LLFA) for your site to discuss your application.

## **Private sewer transfer**

Sewers and lateral drains connected to the public sewer on the 1 July 2011 transferred into Water Company ownership on the 1 October 2011. This follows the implementation of the Floods and Water Management Act (FWMA). This included sewers and lateral drains that were subject to an existing Section 104 Adoption Agreement and those that were not. There were exemptions and the main non-transferable assets were as follows:

Surface water sewers and lateral drains that do not discharge to the public sewer, e.g. those that discharged to a watercourse.

Foul sewers and lateral drains that discharge to a privately owned sewage treatment/collection facility.

Pumping stations and rising mains will transfer between 1 October 2011 and 1 October 2016.

The implementation of Section 42 of the FWMA will ensure that future private sewers will not be created.

It is anticipated that all new sewer applications will need to have an approved Section 104 application ahead of a Section 106 connection.

## **Encroachment**

Anglian Water operates a risk-based approach to development encroaching close to our used water infrastructure. We assess the issue of encroachment if you are planning to build within 400 metres of a water recycling centre or, within 15 metres to 100 metres of a pumping station. We have more information available on our website at <http://anglianwater.co.uk/developers/encroachment.aspx>

## **Locating our assets**

Maps detailing the location of our water and used water infrastructure including both underground assets and above ground assets such as pumping stations and recycling centres are available from [digdat](#).

All requests from members of the public or non-statutory bodies for maps showing the location of our assets will be subject to an appropriate administrative charge.

We have more information on our [website](#)

### **Charging Arrangements**

Our charging arrangements and summary for this year's water and used water connection and infrastructure charges can be found on our [website](#).

### **Section 7 Disclaimer**

The information provided in this report is based on data currently held by Anglian Water Services Limited ('Anglian Water') or provided by a third party. Accordingly, the information in this report is provided with no guarantee of accuracy, timeliness, completeness and is without indemnity or warranty of any kind (express or implied).

This report should not be considered in isolation and does not nullify the need for the enquirer to make additional appropriate searches, inspections and enquiries. Anglian Water supports the plan led approach to sustainable development that is set out in the National Planning Policy Framework ('NPPF') and any infrastructure needs identified in this report must be considered in the context of current, adopted and/or emerging local plans. Where local plans are absent, silent or have expired these needs should be considered against the definition of sustainability holistically as set out in the NPPF.

Whilst the information in this report is based on the presumption that proposed development obtains planning permission, nothing in this report confirms that planning permission will be granted or that Anglian Water will be bound to carry out the works/proposals contained within this report.

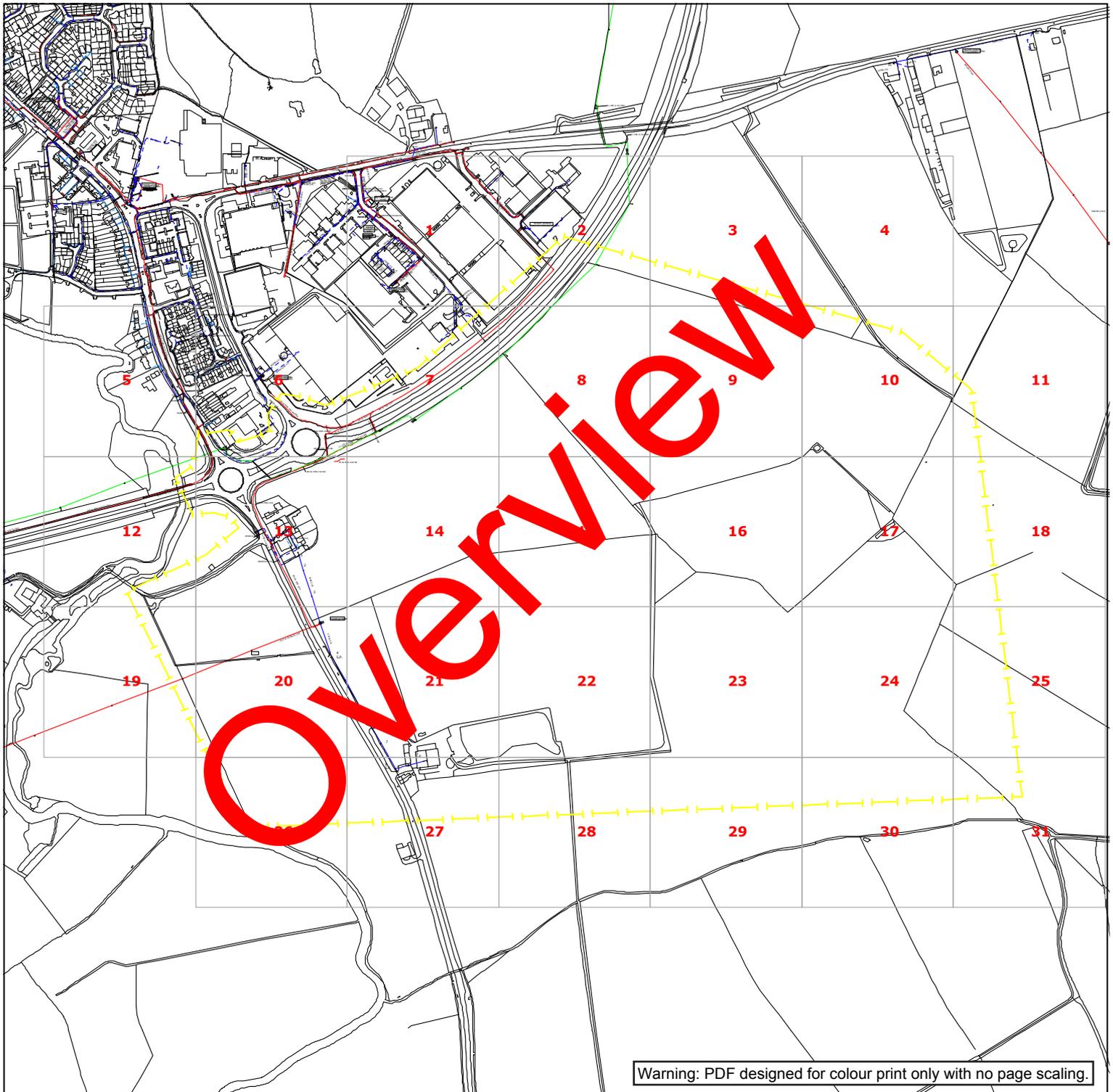
No liability whatsoever, including liability for negligence is accepted by Anglian Water or its partners, employees or agents, for any error or omission, or for the results obtained from the use of this report and/or its content. Furthermore, in no event will any of those parties be liable to the applicant or any third party for any decision made or action taken as a result of reliance on this report.

**This report is valid for the date printed and the enquirer is advised to resubmit their request for an up to date report should there be a delay in submitting any subsequent application for water supply/sewer connection(s).**

# Appendix C

## UTILITY RECORD PLANS





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 Site Location: 489254 242787  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-1

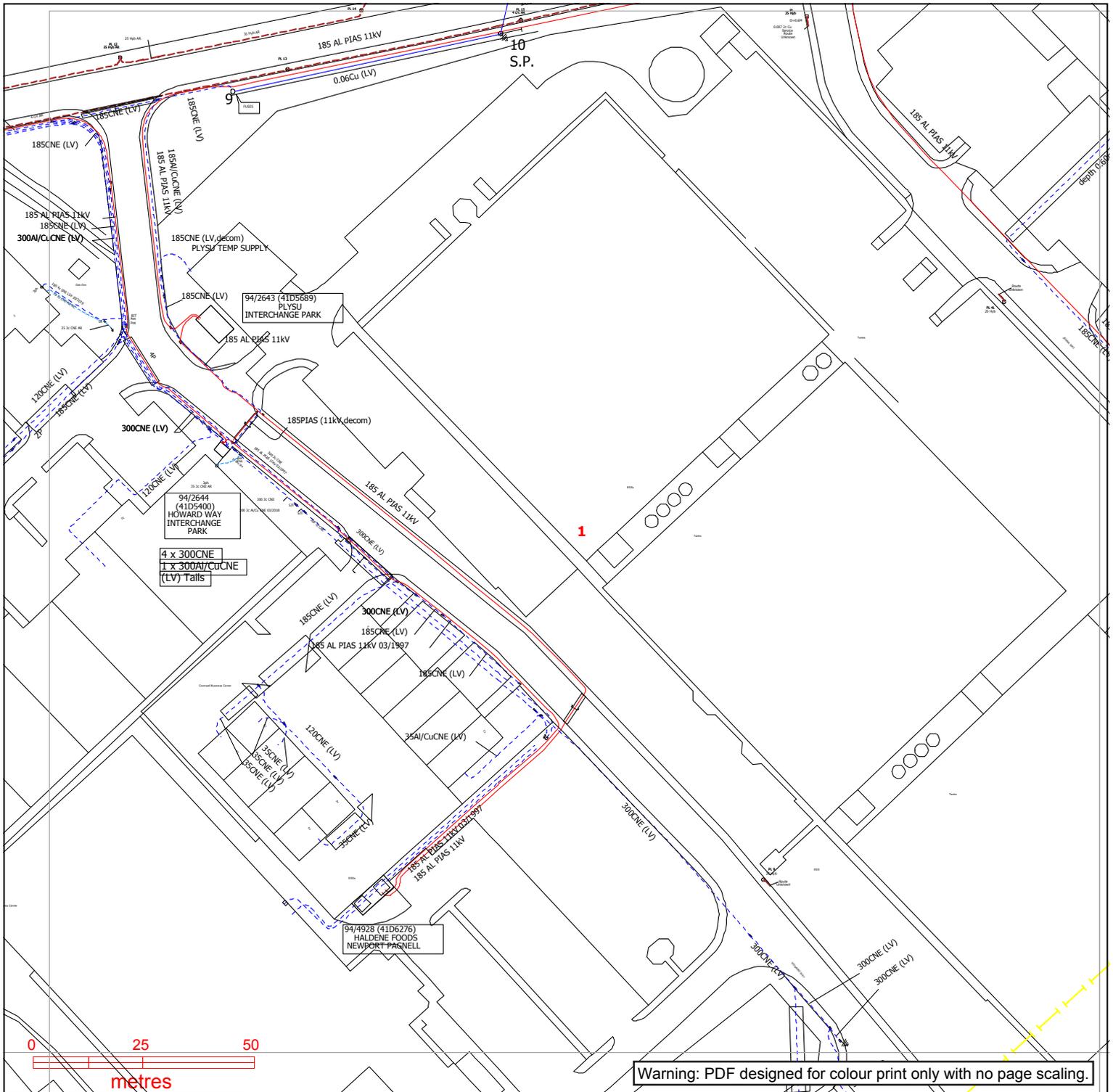
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL	— — — — —	— S — S —	— P — P —
○	○ Service	— — — — —	— — — — —	○ Pole Mounted Transformer
○	○ LV (11kV)	— — — — —	— — — — —	□ Ground Mounted Transformer
○	○ HV (11kV)	— — — — —	— — — — —	
○	○ HV (33kV)	— — — — —	— — — — —	
○	○ HV (66kV)	— — — — —	— — — — —	
○	○ HV (132kV)	— — — — —	— — — — —	
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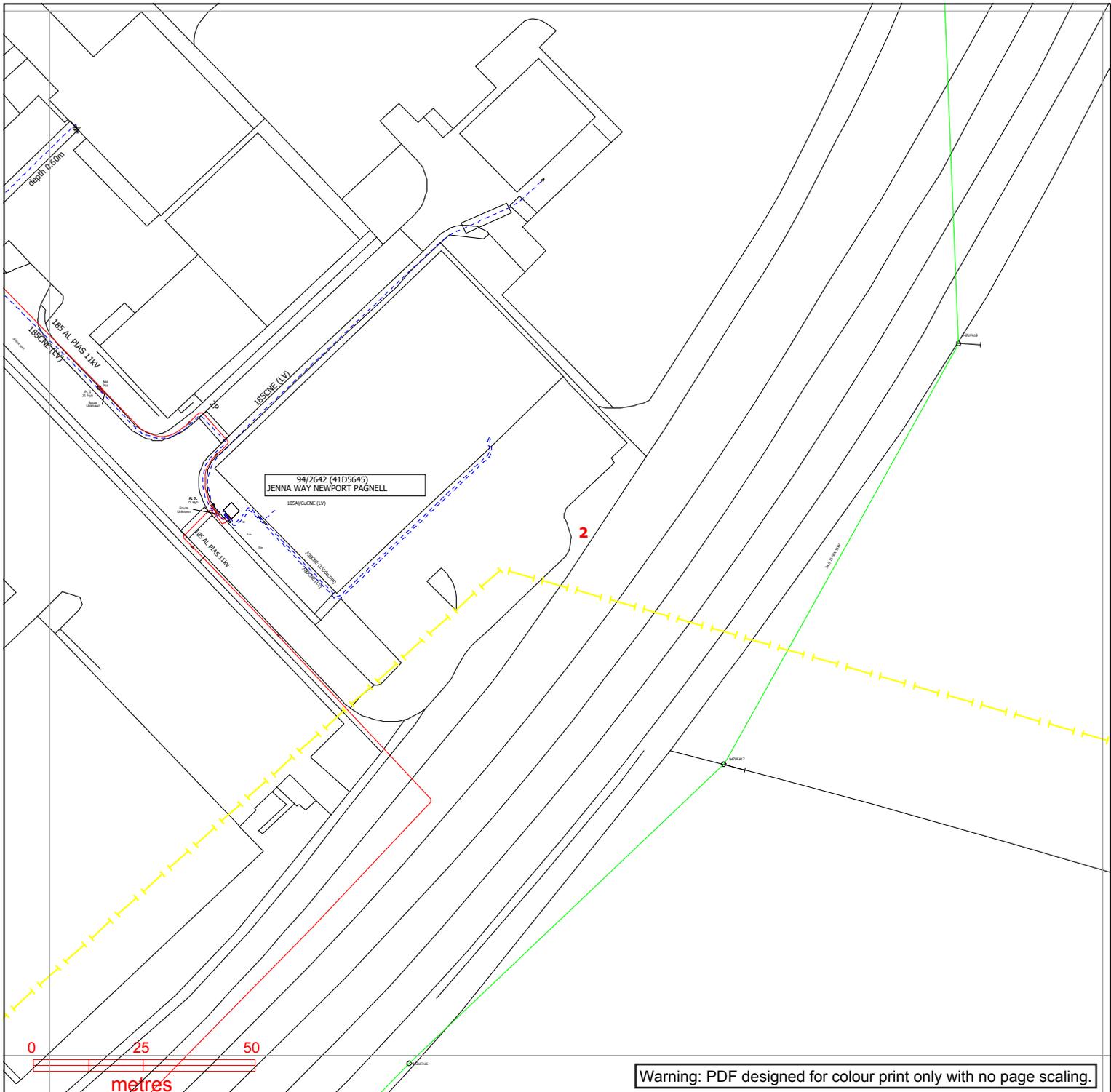
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> - - - PL - - - Service - - - LV - - - HV (11kV) - - - HV (33kV) - - - HV (66kV) - - - HV (132kV)	<b>SURF Telecoms</b> - - - S - - - S PME Earth Underground Earth	<b>Pilot Cables</b> - - - P - - - P Pole Mounted Transformer Ground Mounted Transformer
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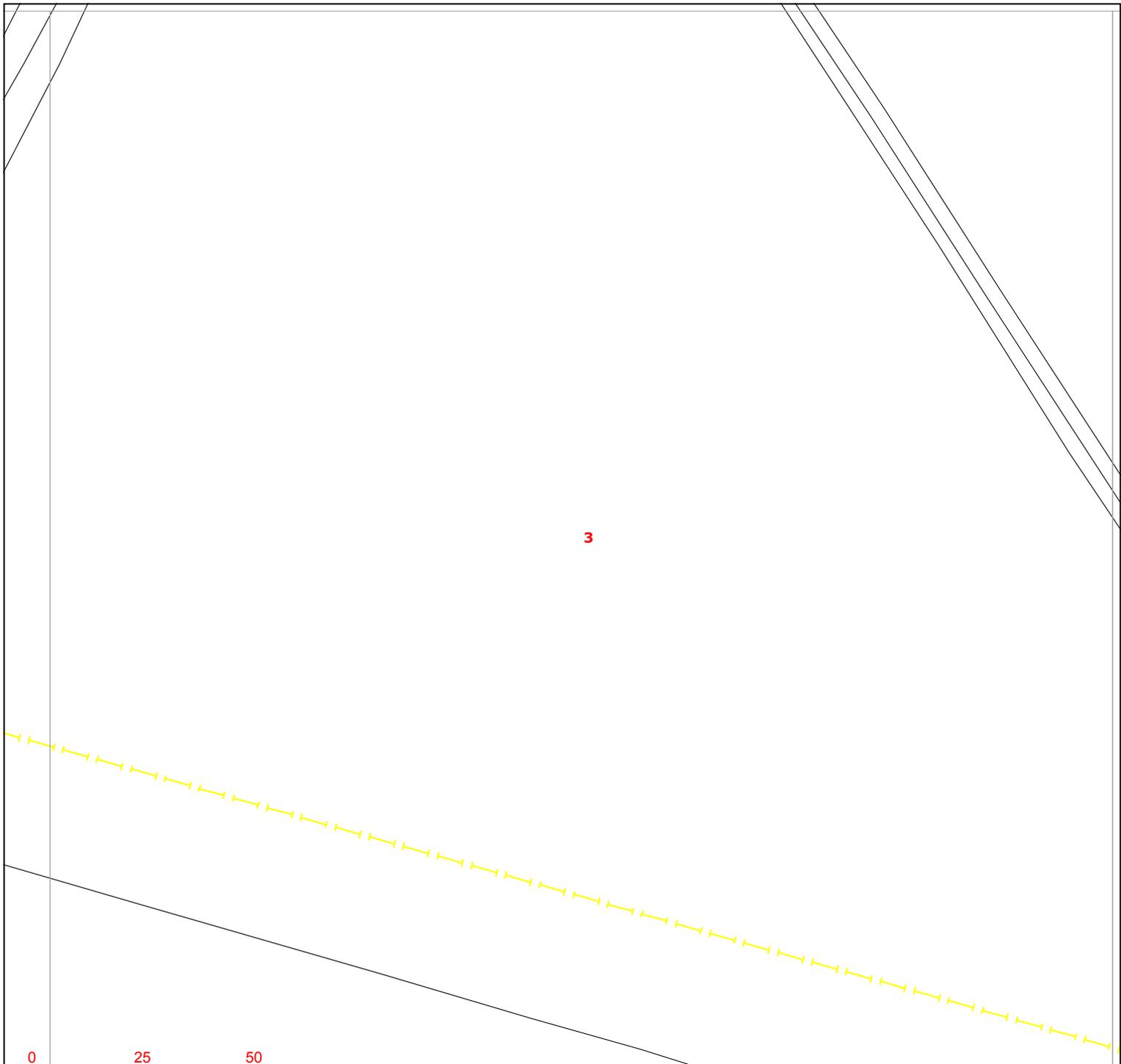
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> - - - PL - - - Service - - - LV - - - HV (11kV) - - - HV (33kV) - - - HV (66kV) - - - HV (132kV)	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> P-P- Pole Mounted Transformer Ground Mounted Transformer
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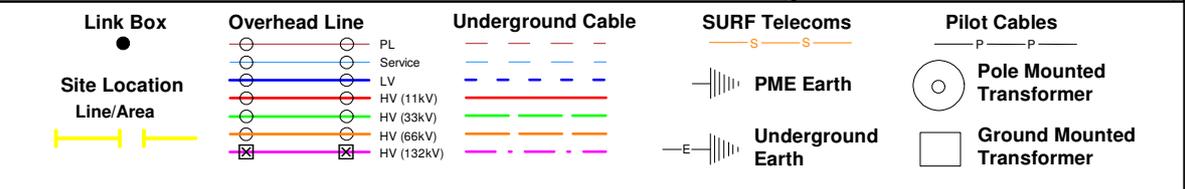
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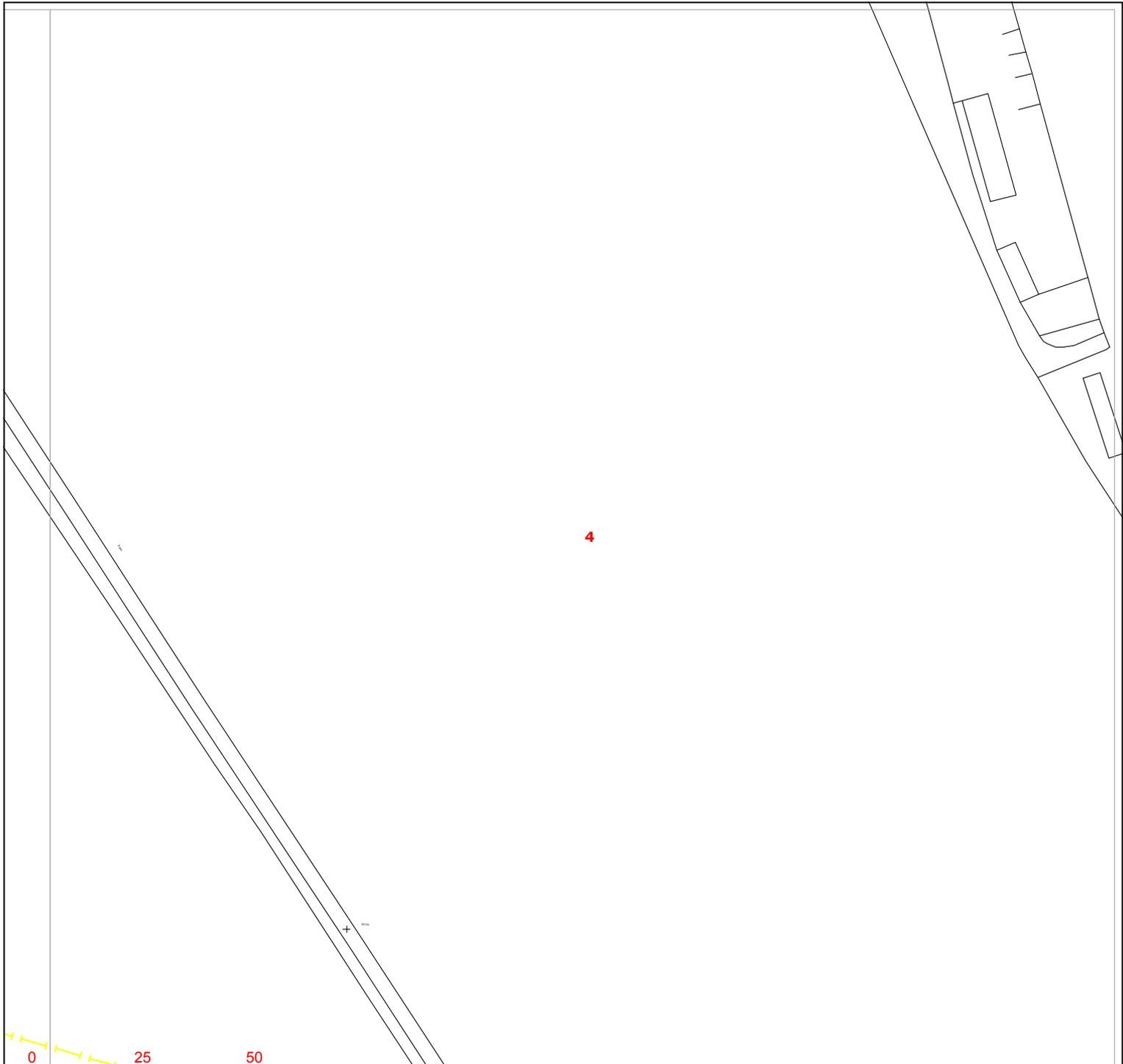


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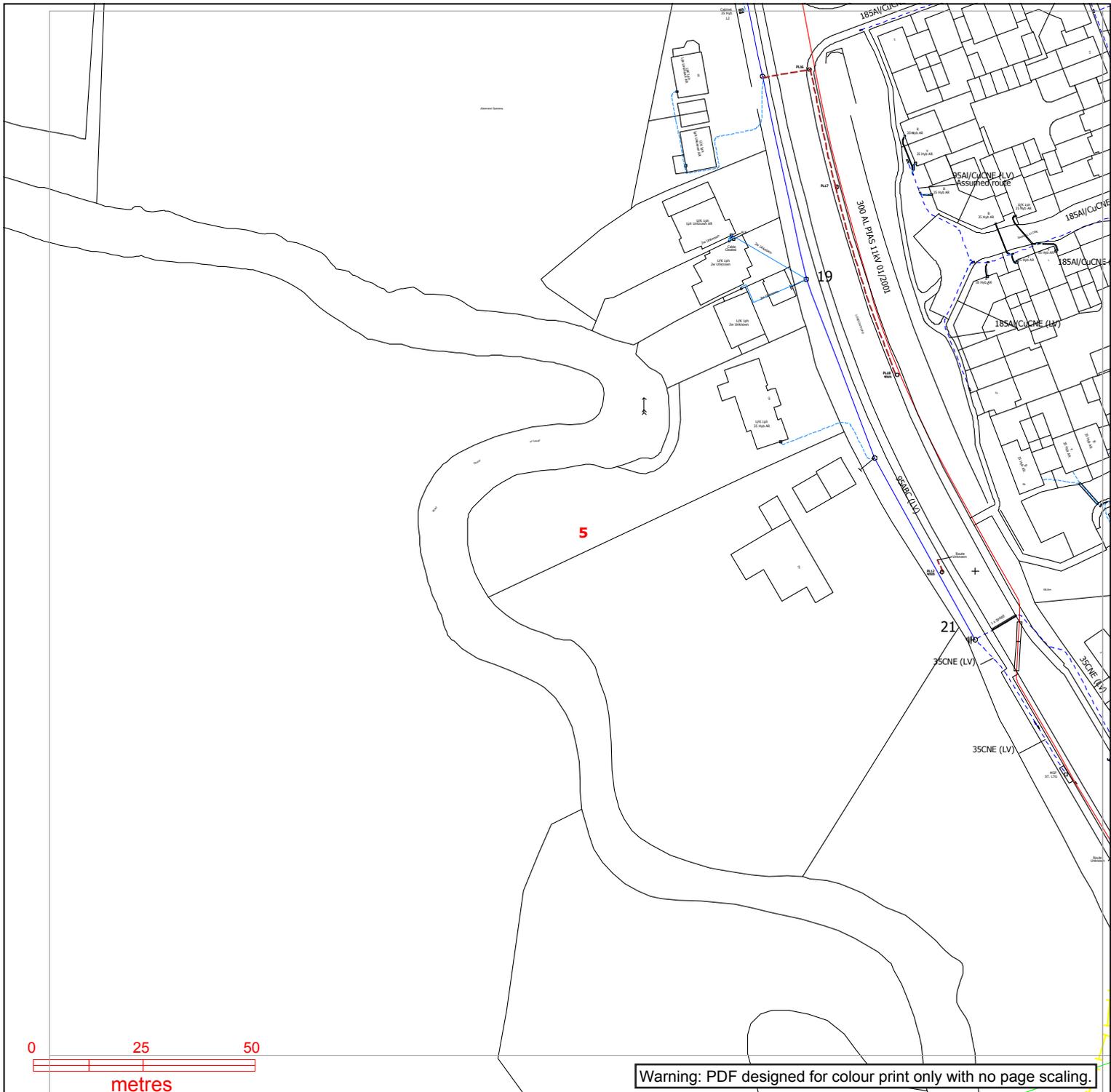
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Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
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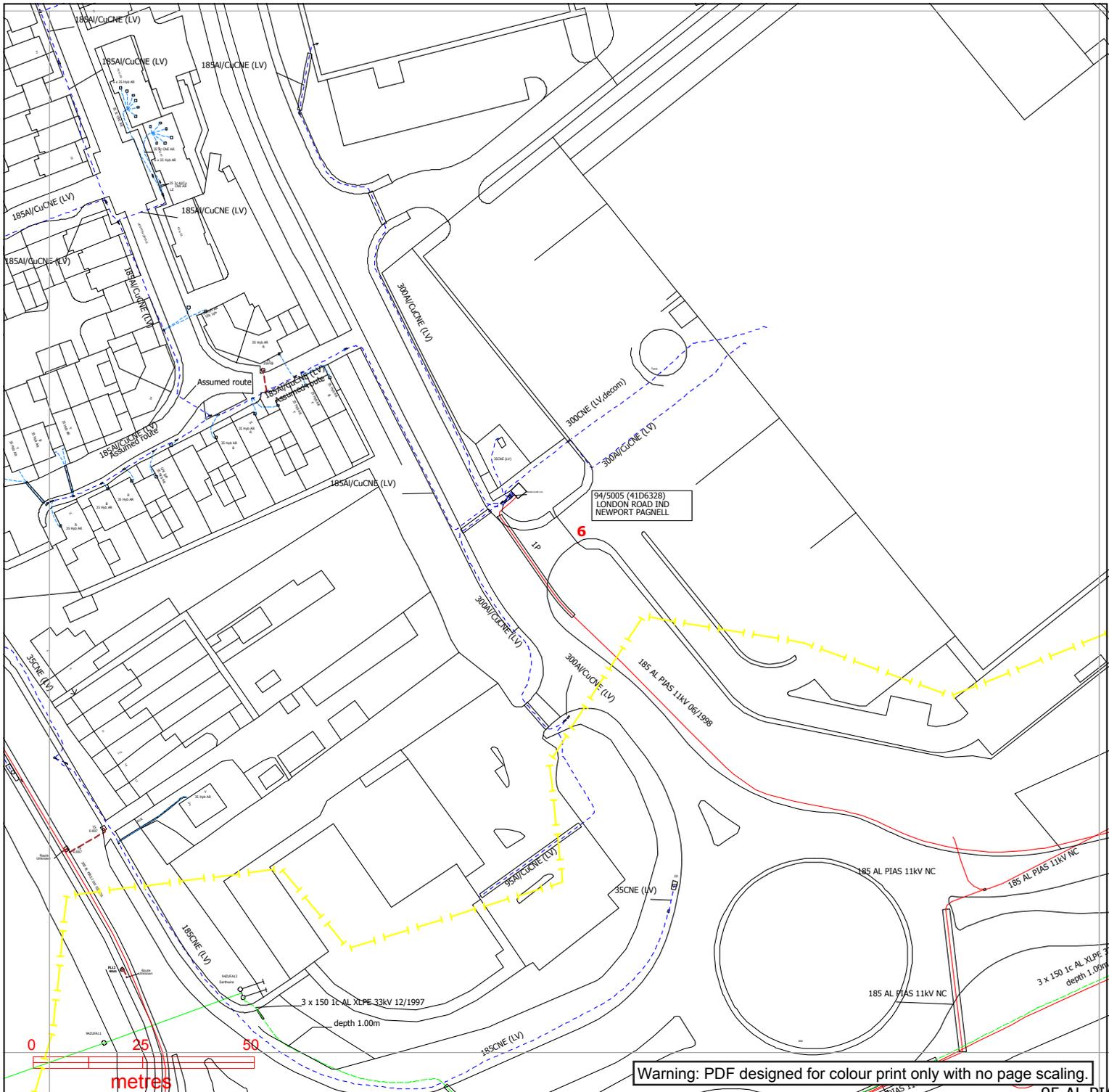
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Exact Scales:  
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●	—	---	⎓ PME Earth	○ Pole Mounted Transformer
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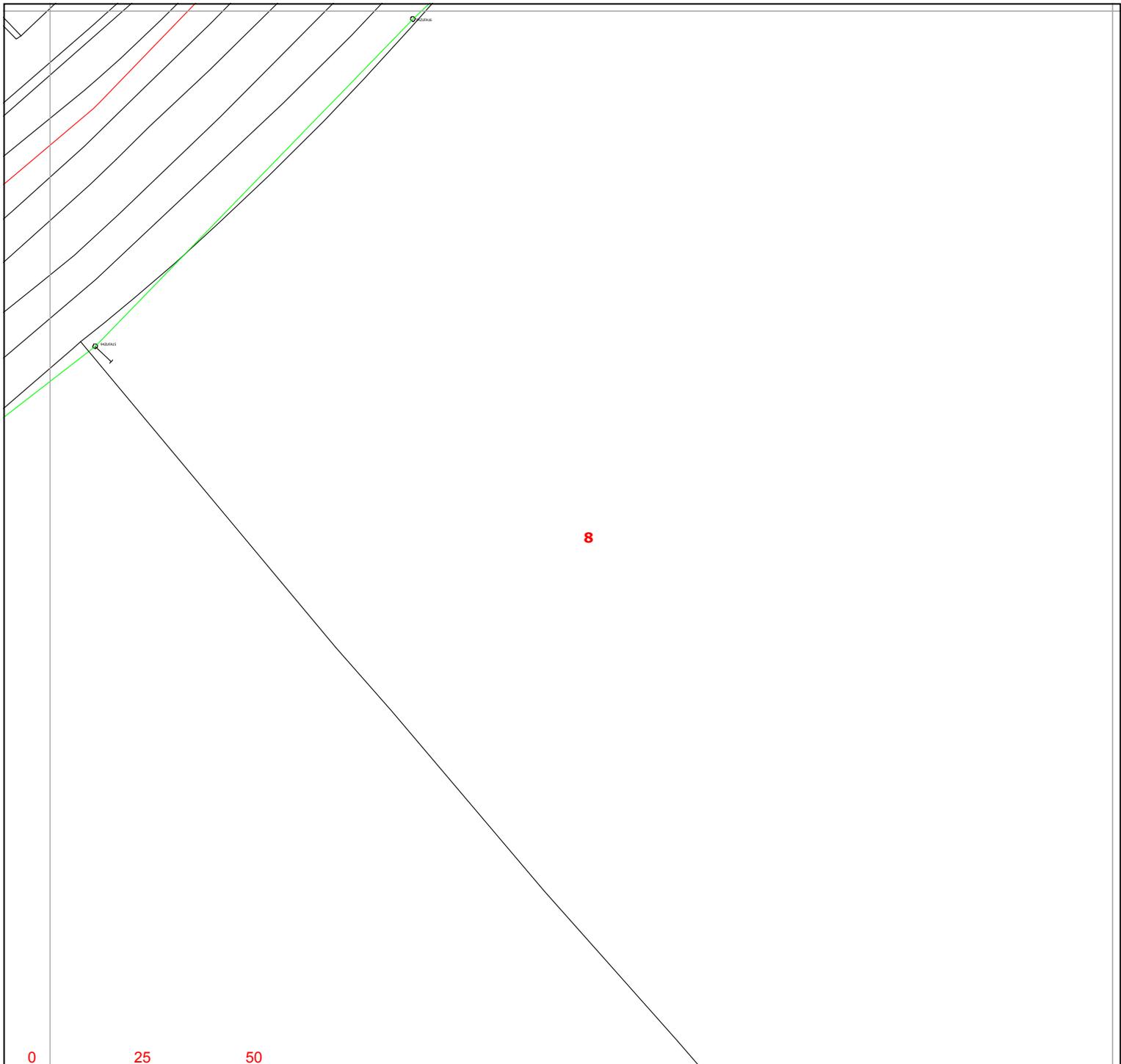
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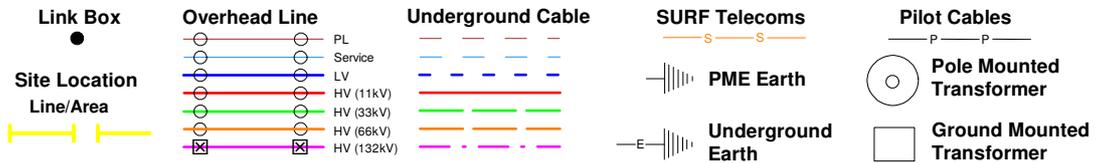




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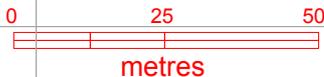


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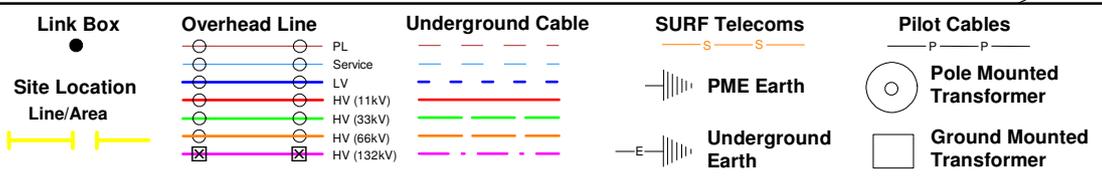
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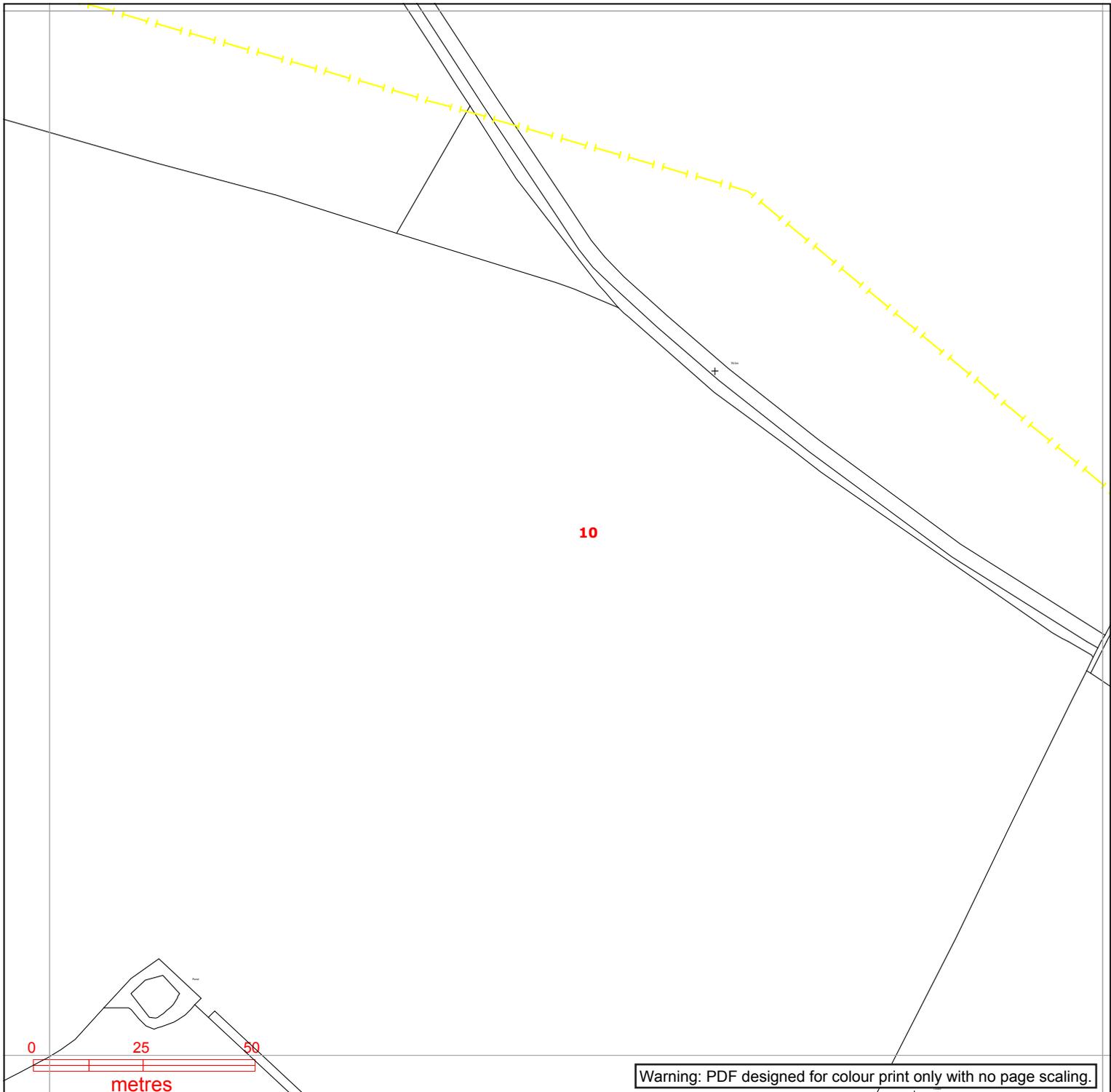


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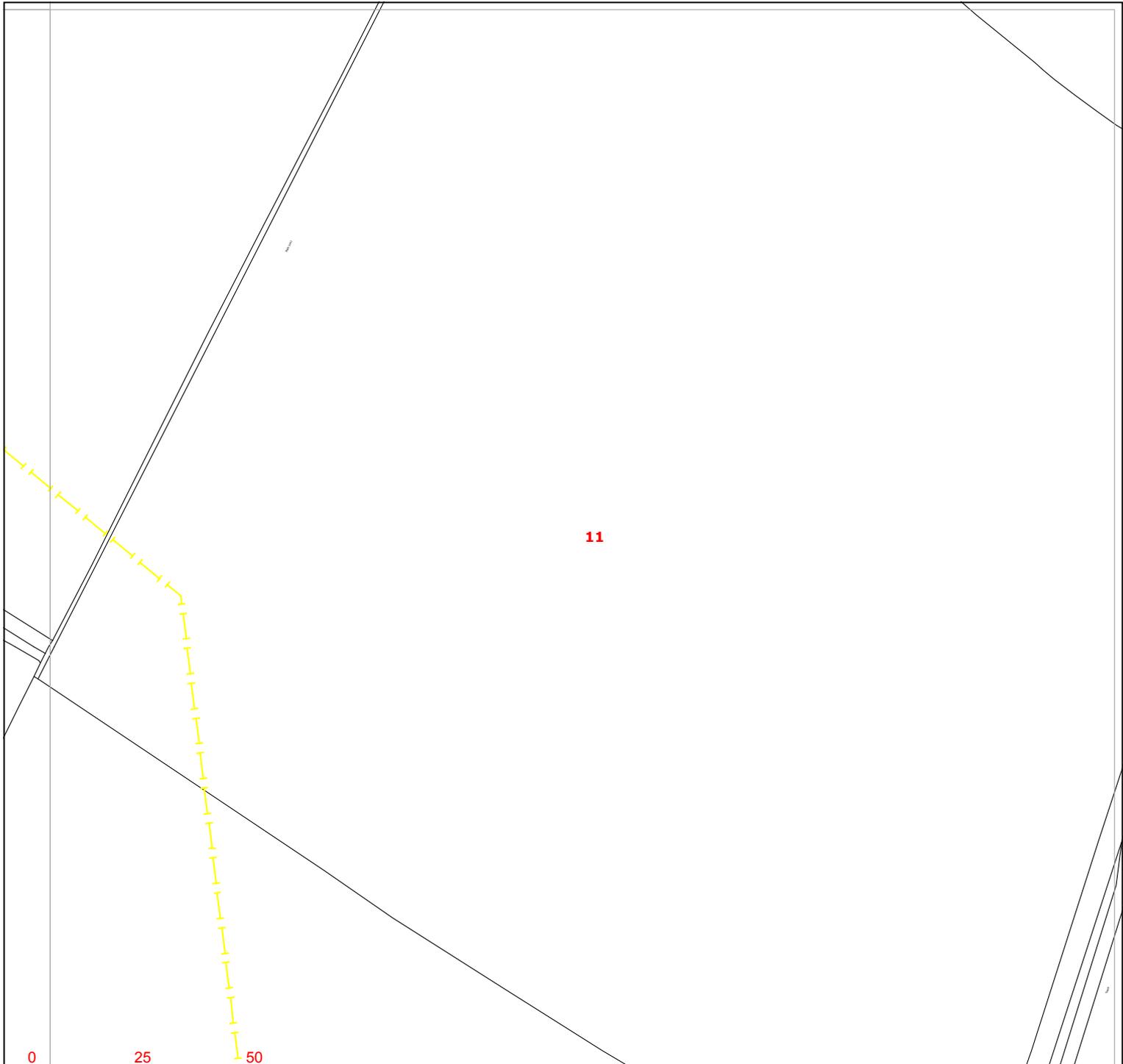
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●				
<b>Site Location</b>  <b>Line/Area</b>				

**IMPORTANT NOTICES**

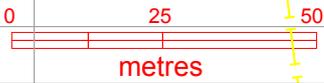
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**General Enquiries:**  
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Date Requested: 21/10/2020  
 Job Reference: 20279938  
 Site Location: 489254 242787  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-1

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

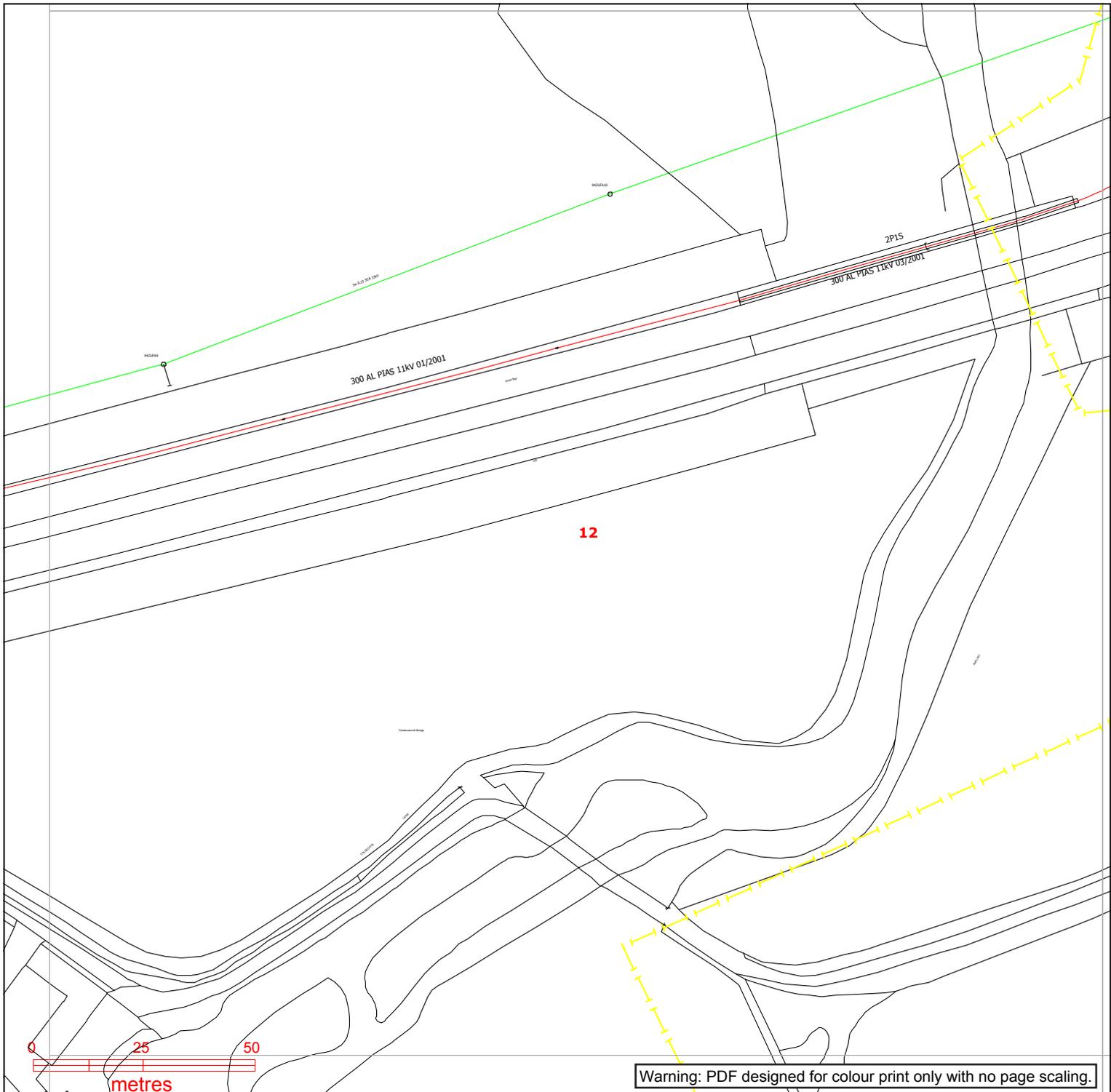
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - -	<b>SURF Telecoms</b> -S-S-  PME Earth  Underground Earth	<b>Pilot Cables</b> -P-P-  Pole Mounted Transformer  Ground Mounted Transformer
----------------------	--	---	---	--

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 1:500 Line dig site

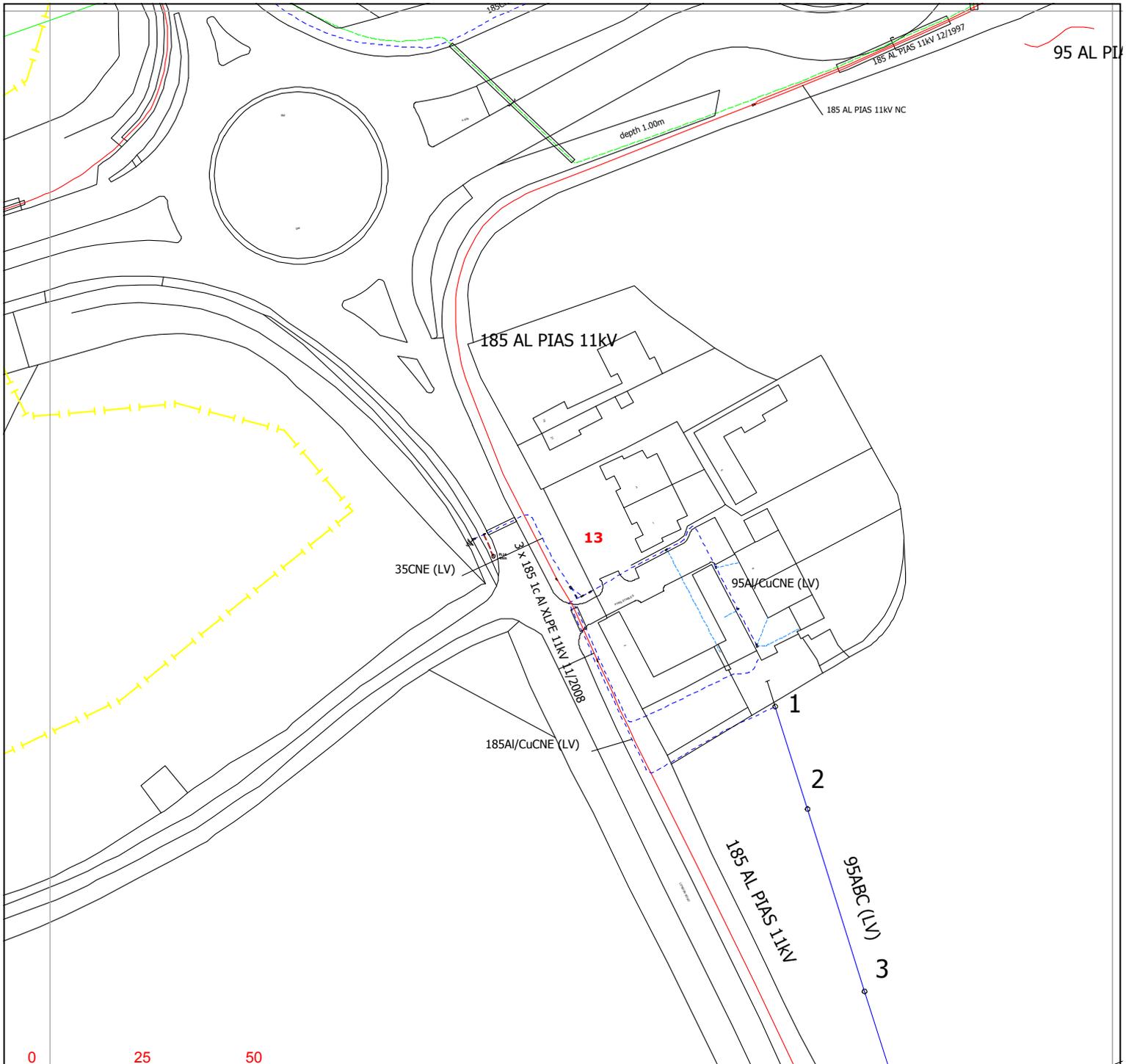
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ○—○ HV (132kV)	<b>Underground Cable</b> — — — — — PL — — — — — Service — — — — — LV — — — — — HV (11kV) — — — — — HV (33kV) — — — — — HV (66kV) — — — — — HV (132kV)	<b>SURF Telecoms</b> — S — S — PME Earth Underground Earth	<b>Pilot Cables</b> P — P — Pole Mounted Transformer Ground Mounted Transformer
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Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	— —	— S — S — PME Earth Underground Earth	— P — P — Pole Mounted Transformer Ground Mounted Transformer

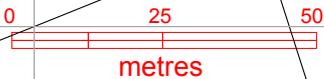
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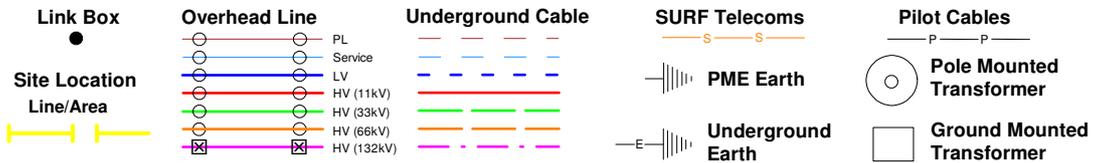
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 Site Location: 489254 242787  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-1

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

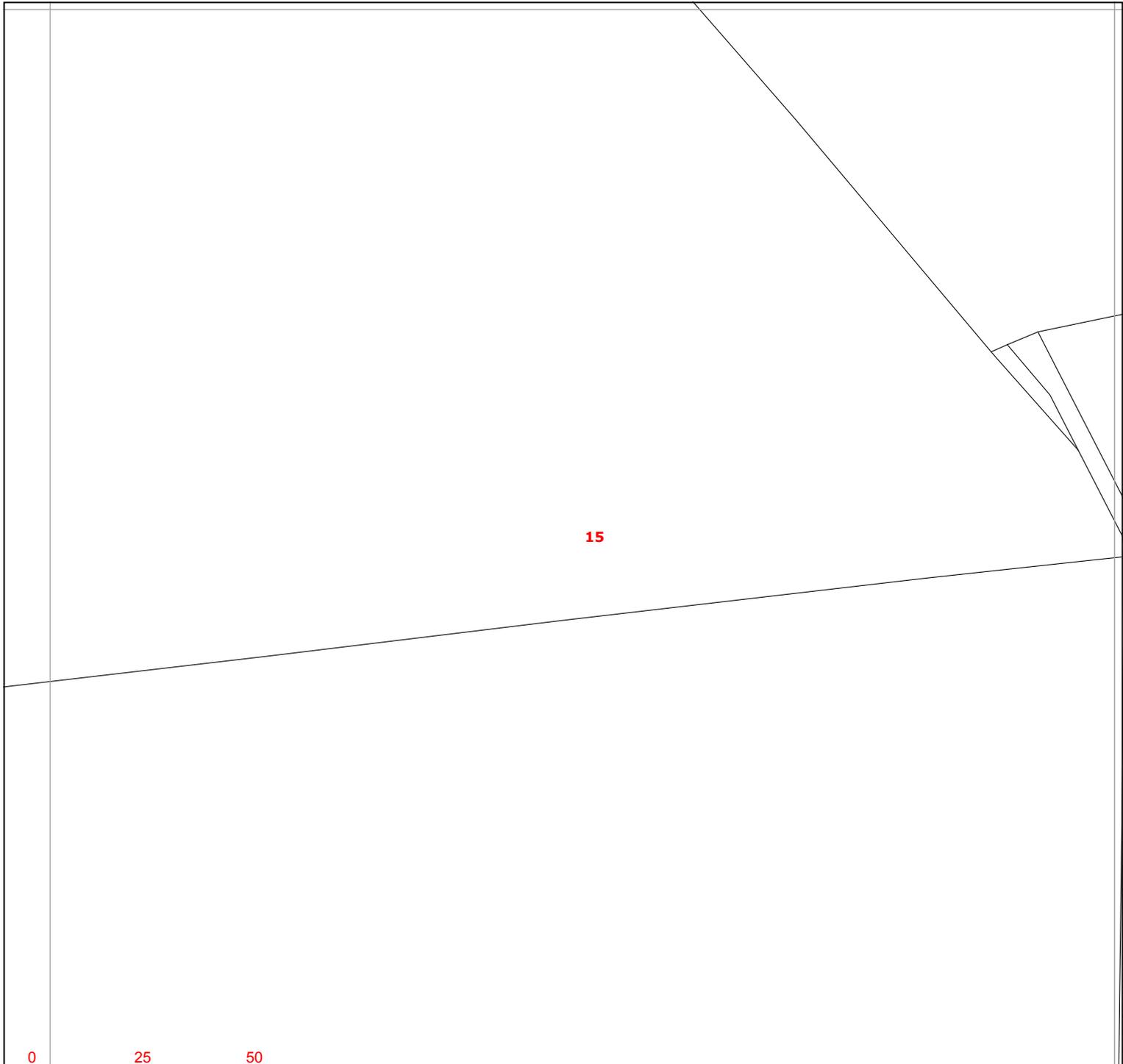


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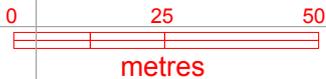
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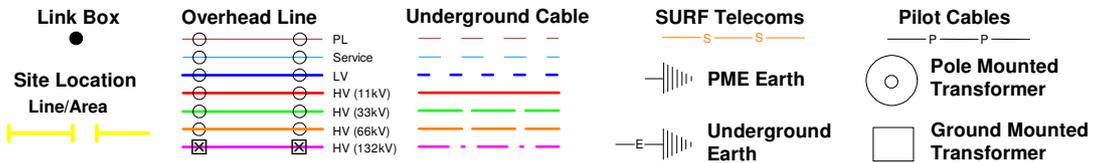
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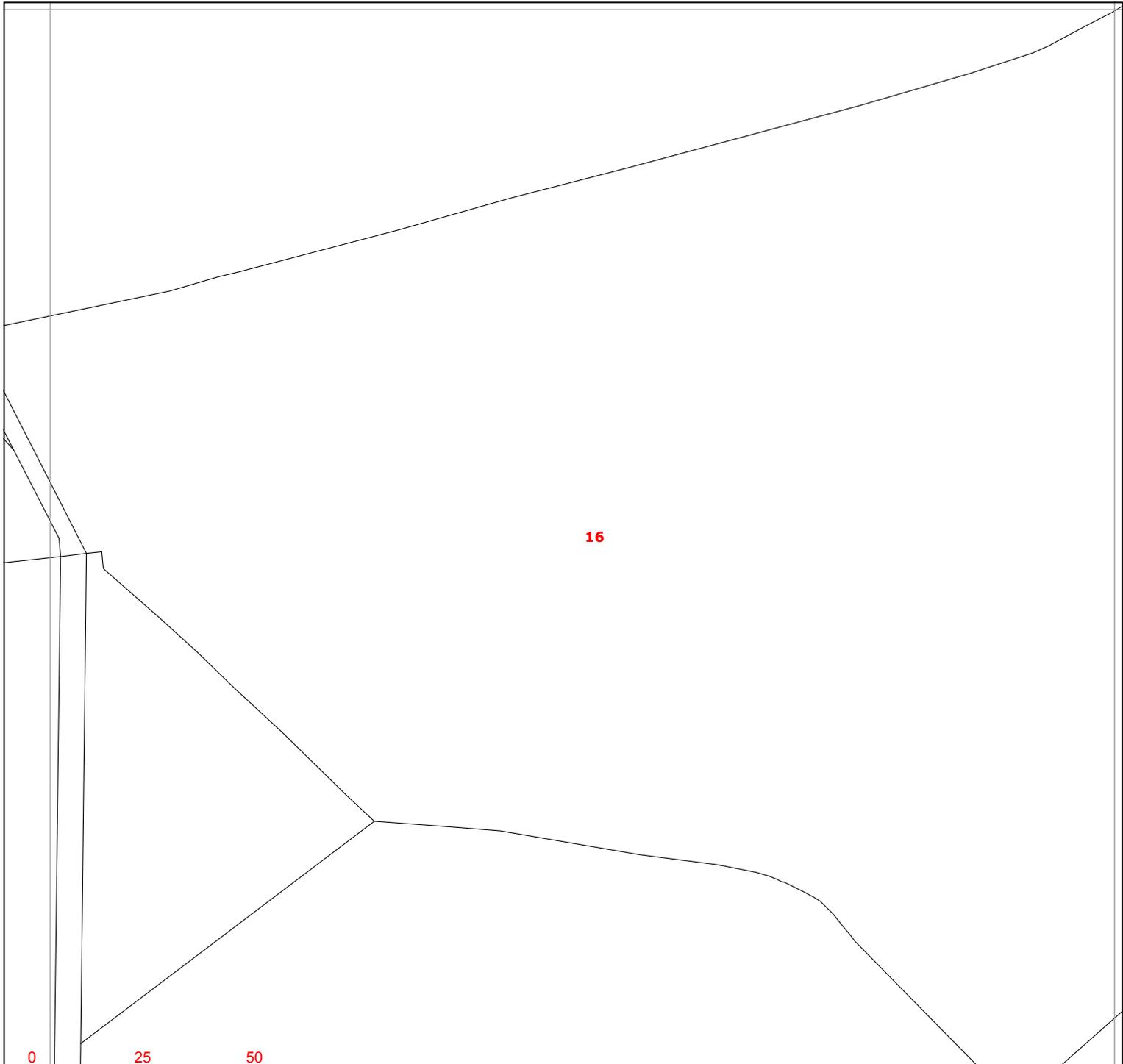


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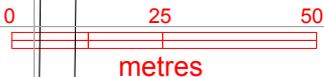
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<b>Link Box</b> 	<b>Overhead Line</b> 	<b>Underground Cable</b> 	<b>SURF Telecoms</b> 	<b>Pilot Cables</b> 
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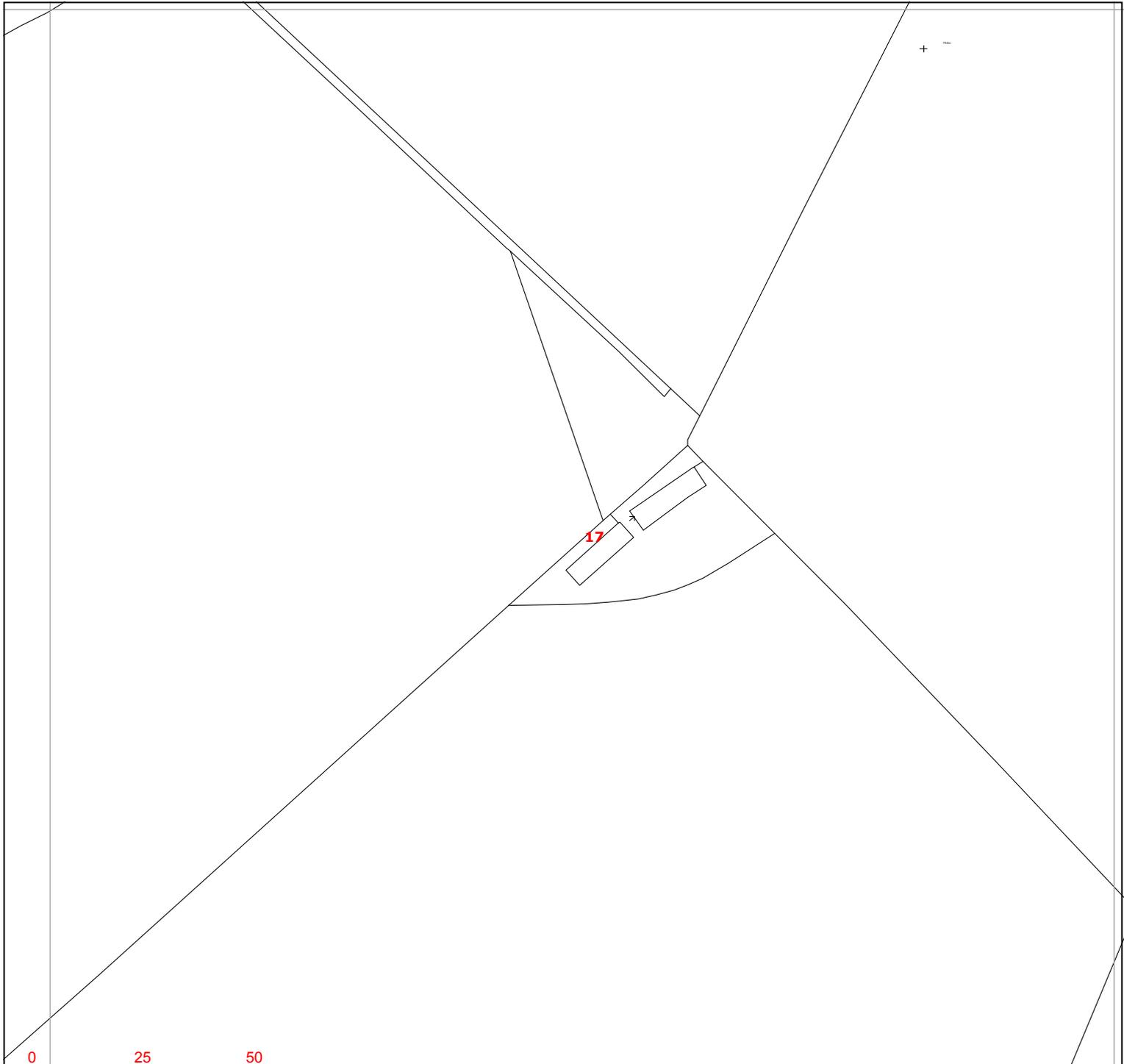
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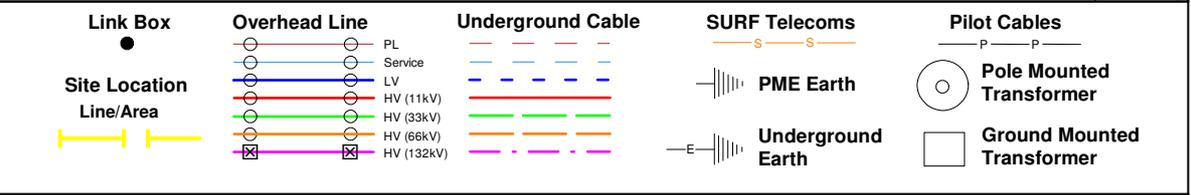
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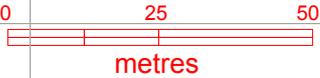
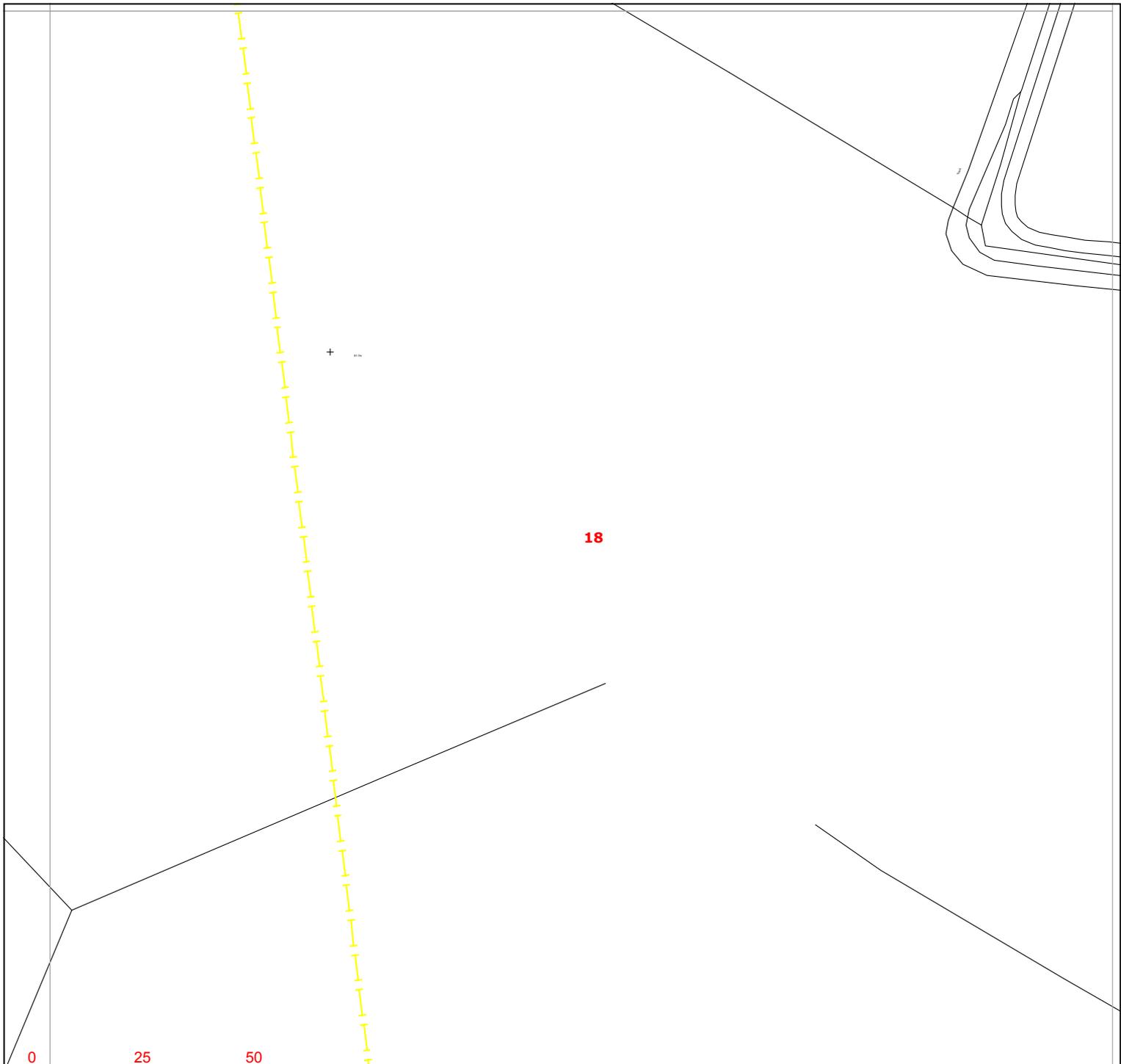


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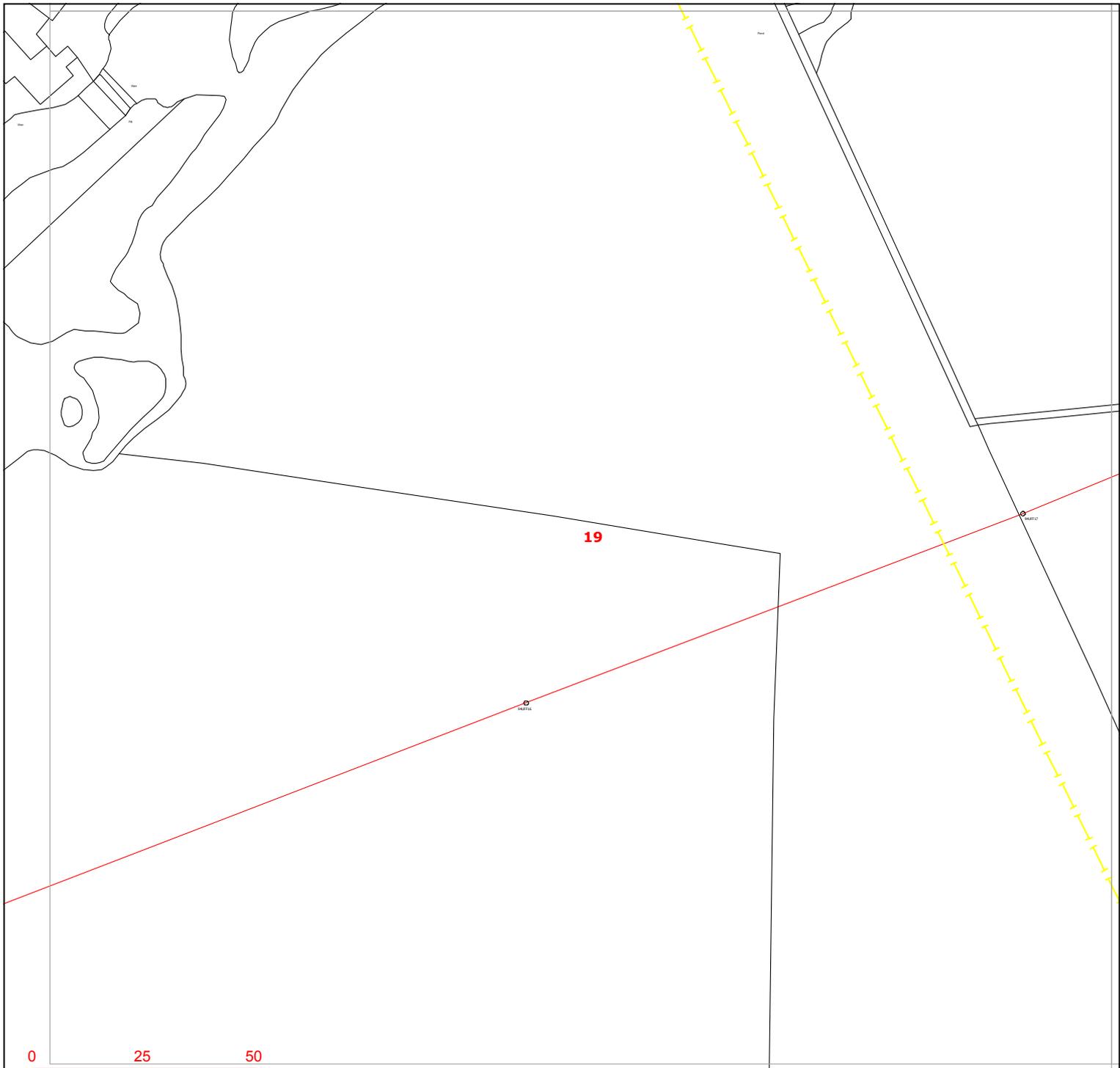
<p><b>Link Box</b> ●</p> <p><b>Site Location</b> <b>Line/Area</b></p>	<p><b>Overhead Line</b></p> <ul style="list-style-type: none"> <li> PL</li> <li> Service</li> <li> LV</li> <li> HV (11kV)</li> <li> HV (33kV)</li> <li> HV (66kV)</li> <li> HV (132kV)</li> </ul>	<p><b>Underground Cable</b></p> <ul style="list-style-type: none"> <li> Red dashed line</li> <li> Blue dashed line</li> <li> Green dashed line</li> <li> Orange dashed line</li> <li> Purple dashed line</li> </ul>	<p><b>SURF Telecoms</b></p> <ul style="list-style-type: none"> <li> S S</li> <li> PME Earth</li> <li> Underground Earth</li> </ul>	<p><b>Pilot Cables</b></p> <ul style="list-style-type: none"> <li> P P</li> <li> Pole Mounted Transformer</li> <li> Ground Mounted Transformer</li> </ul>
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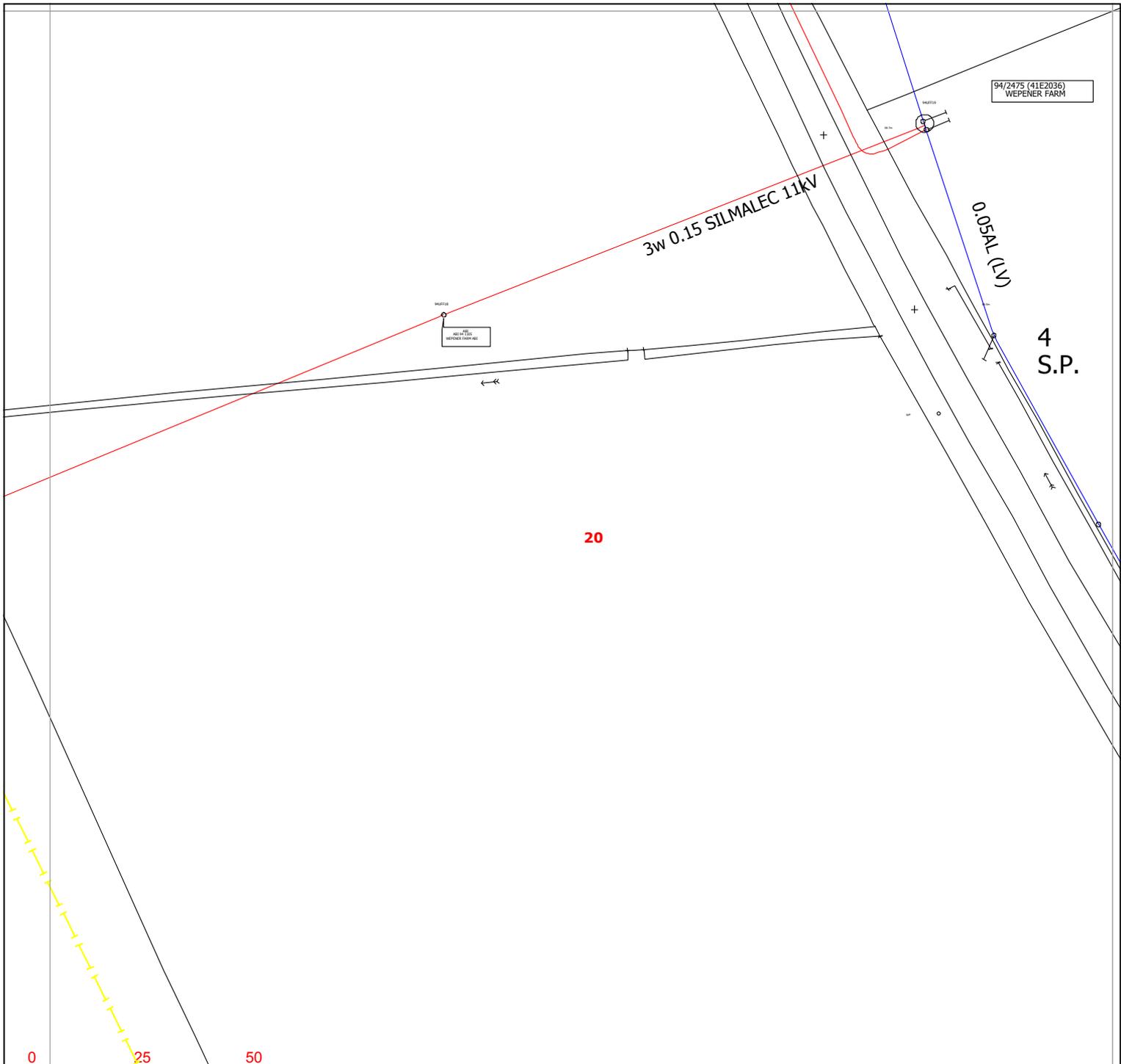
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV (11kV) ○ HV (33kV) ○ HV (66kV) ☒ HV (132kV)	--- --- --- ---	—S—S— PME Earth —E—	—P—P— ○ Pole Mounted Transformer □ Ground Mounted Transformer

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94/2475 (41E2036)  
WEPENER FARM

WEPENER FARM

3w 0.15 SILMALEC 11kV

0.05AL (LV)

4 S.P.

20



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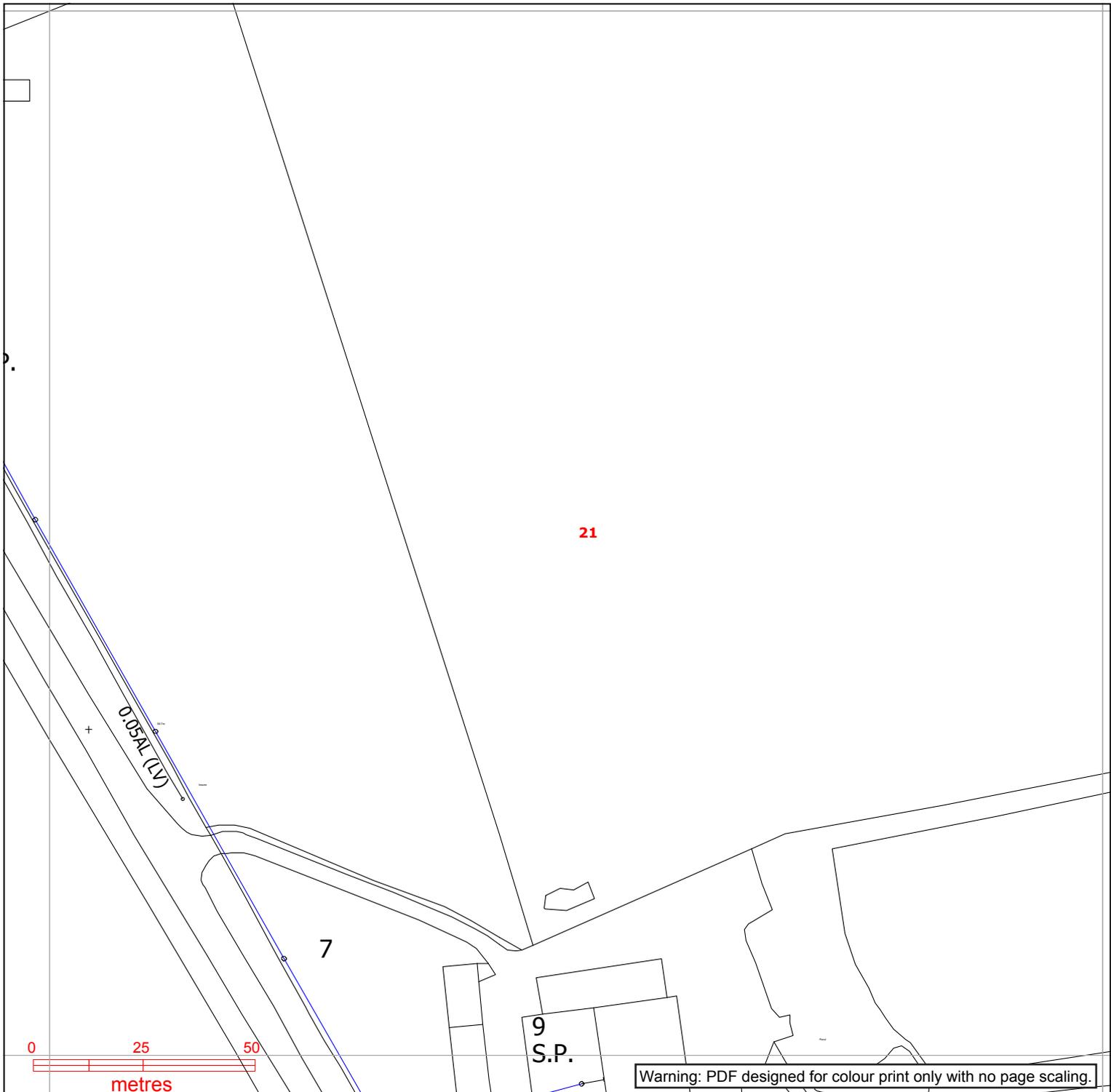
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	— —	—S—S— PME Earth Underground Earth	—P—P— ○ Pole Mounted Transformer □ Ground Mounted Transformer

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**IMPORTANT NOTICES**

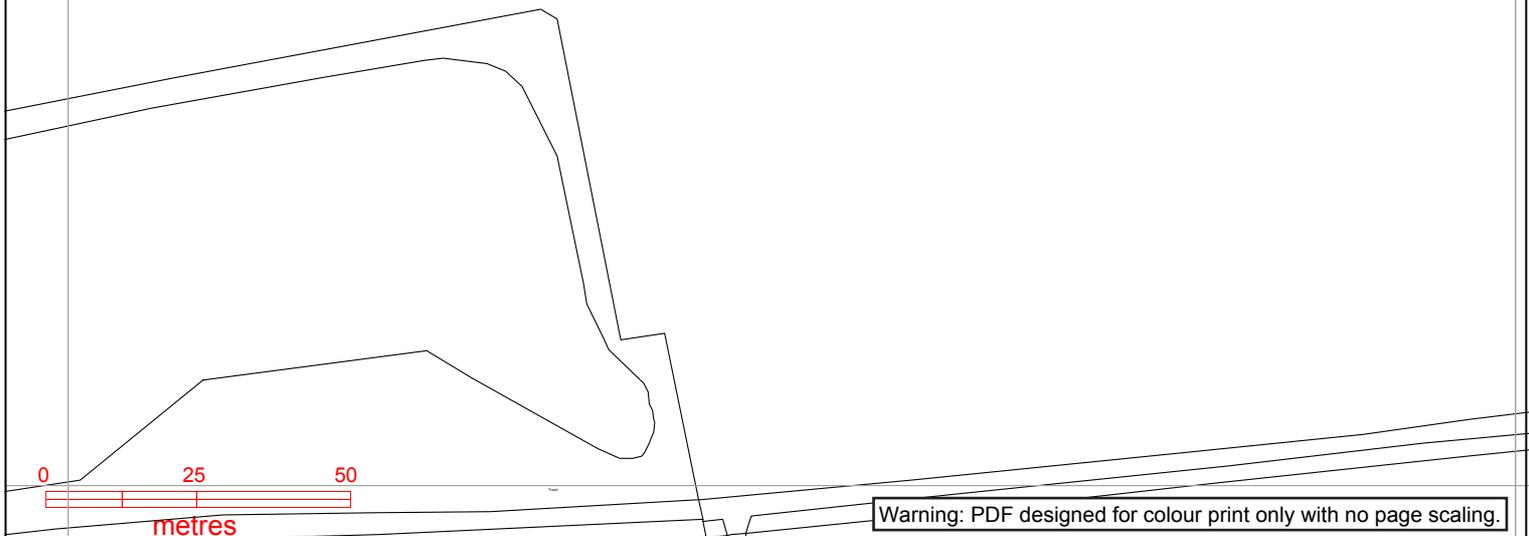
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Date Requested: 21/10/2020  
 Job Reference: 20279938  
 Site Location: 489254 242787  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-1

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

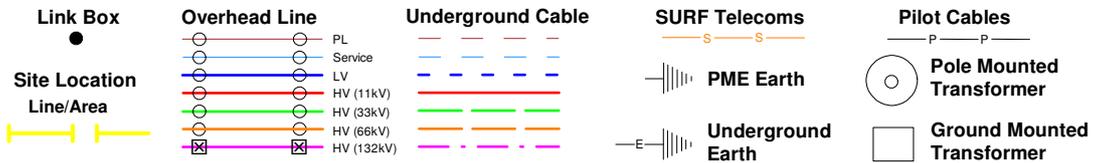
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**General Enquiries:**  
 All areas 0800 096 3080

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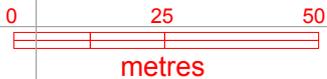


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- When working within 10m of any overhead electric line you should follow the requirements of HSE Guidance Note GS6.
- For further advice on working near our electricity cables or lines, call our General Enquiries number.
- Advice should be sought from the Western Power Distribution General Enquiries team for any work that is to take place in proximity to 132kV underground cables and 132kV overhead lines.

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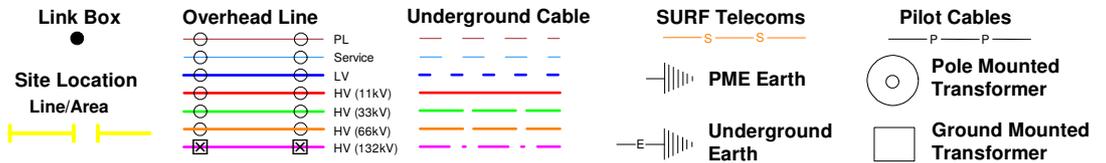
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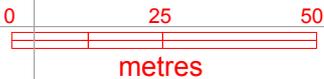
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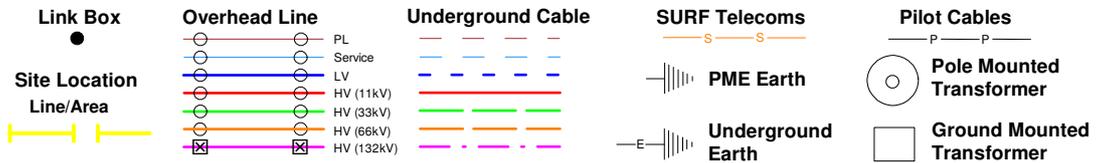
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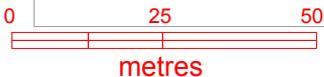
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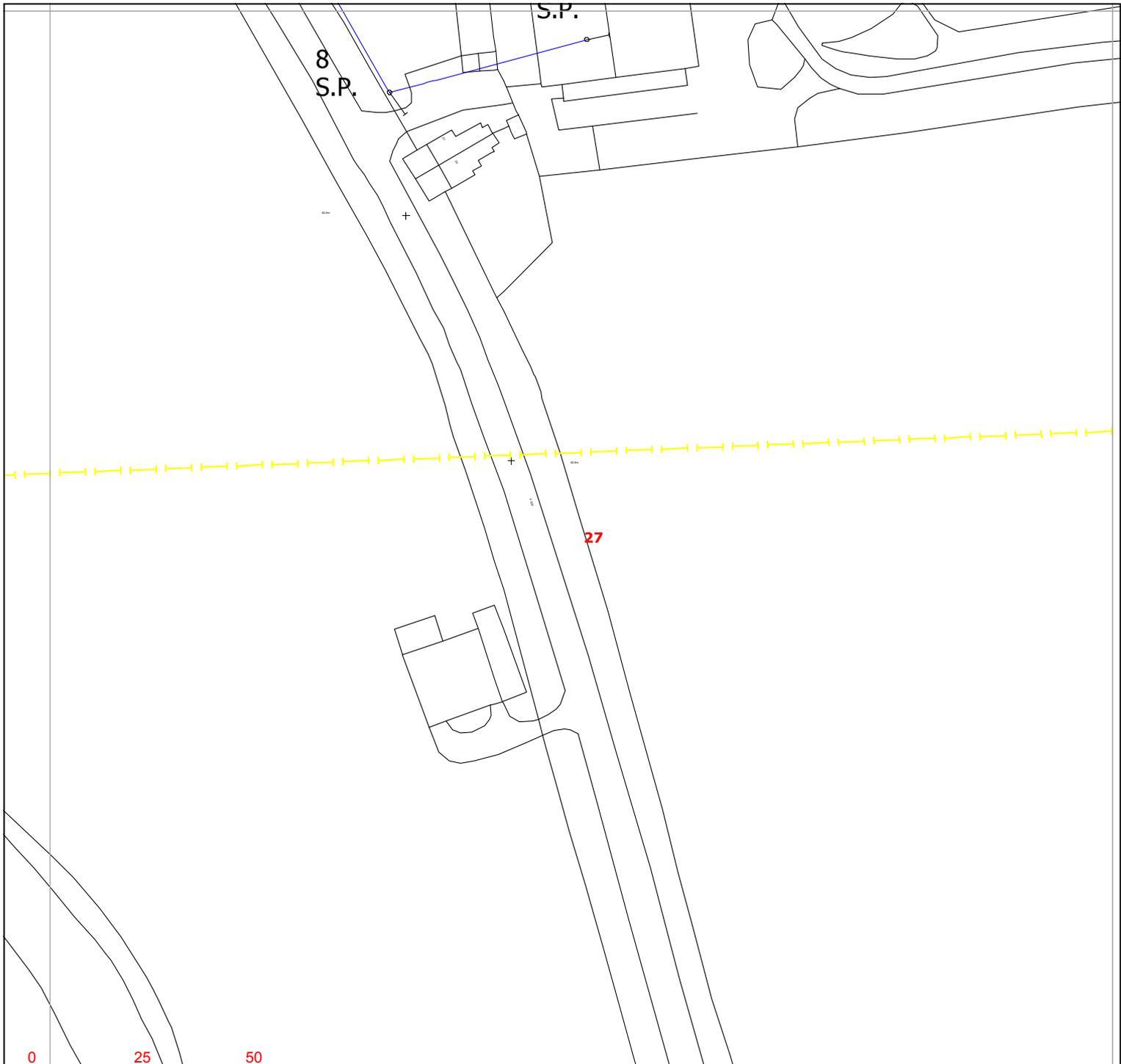
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  —E—	<b>Pilot Cables</b> —P—P—  ○ <b>Pole Mounted Transformer</b>  □ <b>Ground Mounted Transformer</b>
<b>Site Location</b> <b>Line/Area</b> 			<b>PME Earth</b>	

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 Site Location: 489254 242787  
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Exact Scales:  
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<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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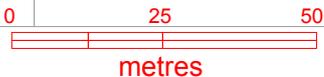
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<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth  Underground Earth	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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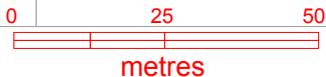
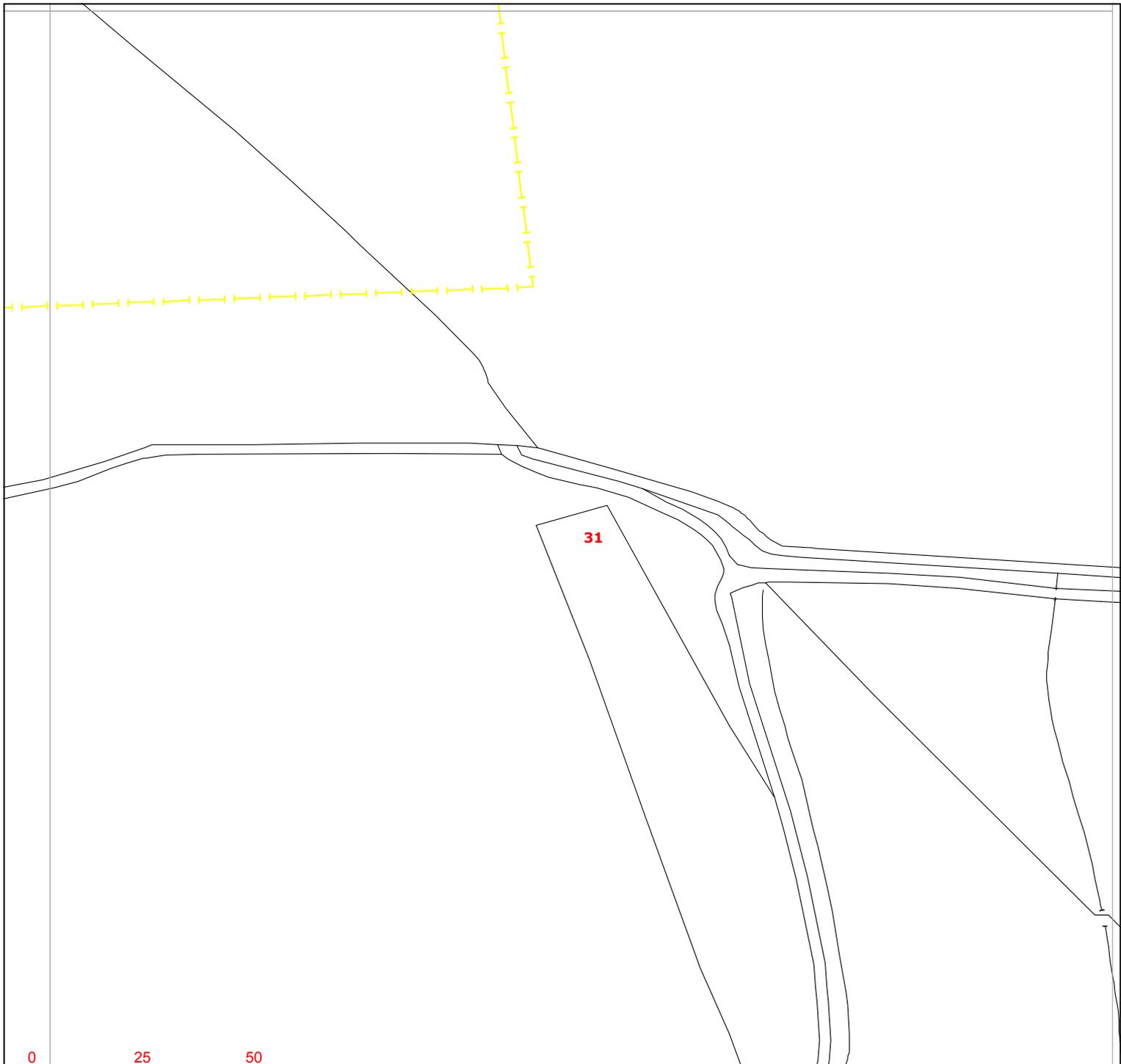
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ☒ HV (132kV)	---	—S—S—	—P—P—
Site Location Line/Area	—	---	⎓ PME Earth ⎓ Underground Earth	○ Pole Mounted Transformer □ Ground Mounted Transformer
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 All areas 0800 096 3080

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Our Ref: 20280161      Your Ref: 89518/BRK-2

Wednesday, 21 October 2020

Chrissy Elliott  
The Hub 500 Park Avenue, Aztec West, Patchway  
Almondsbury  
Bristol  
BS32 4RZ

**Western Power Distribution,**  
Mapping Centre  
Toll End Road  
Tipton  
West Midlands  
United Kingdom  
DY4 0HH  
www.westernpower.co.uk

Dear Chrissy Elliott

Thank you for your enquiry dated Wednesday, 21 October 2020

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

Map Response  
T 0121 623 9780  
WPDMapResponse  
@westernpower.co.uk

**LinesearchbeforeUdig**  
Help Desk 0845 437 7365

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

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

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

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

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

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

Western Power Distribution PLC  
South West - 02366894  
South Wales - 02366985  
East Midlands - 02366923  
West Midlands - 03600574

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

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

Registered in  
England and Wales

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

Registered Office:  
Avonbank  
Feeder Road  
Bristol  
BS2 0TB

Yours sincerely  
WPD Map Response Team

## Contact Us

### Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

### Mapping Enquiries

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

Telephone           0121 623 9780  
Email                WPDMapResponse@westernpower.co.uk

### General Enquiries

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

All areas            0800 096 3080

### LinesearchbeforeUdig

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

Telephone           0845 437 7365  
Email                enquiries@linesearchbeforeudig.co.uk  
Website             www.linesearchbeforeudig.co.uk

## Steps to help keep you safe

- **If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.**

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

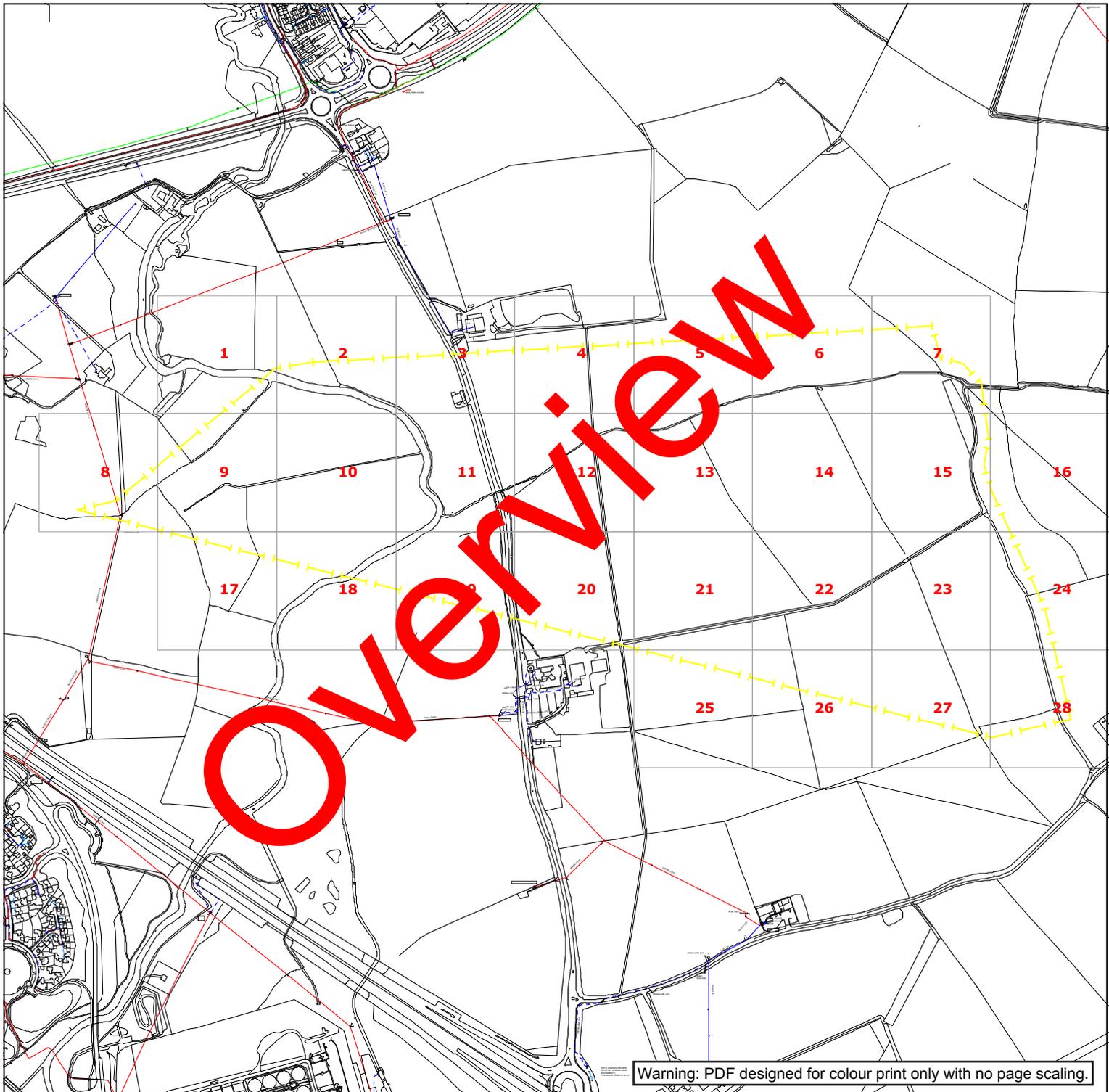
<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete **MUST** be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

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

### **Safety Documents:**

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>



**WESTERN POWER DISTRIBUTION**  
*Serving the Midlands, South West and Wales*

**Contact Us**  
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**General Enquiries:**  
 All areas 0800 096 3080

Date Requested: 21/10/2020  
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 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-2

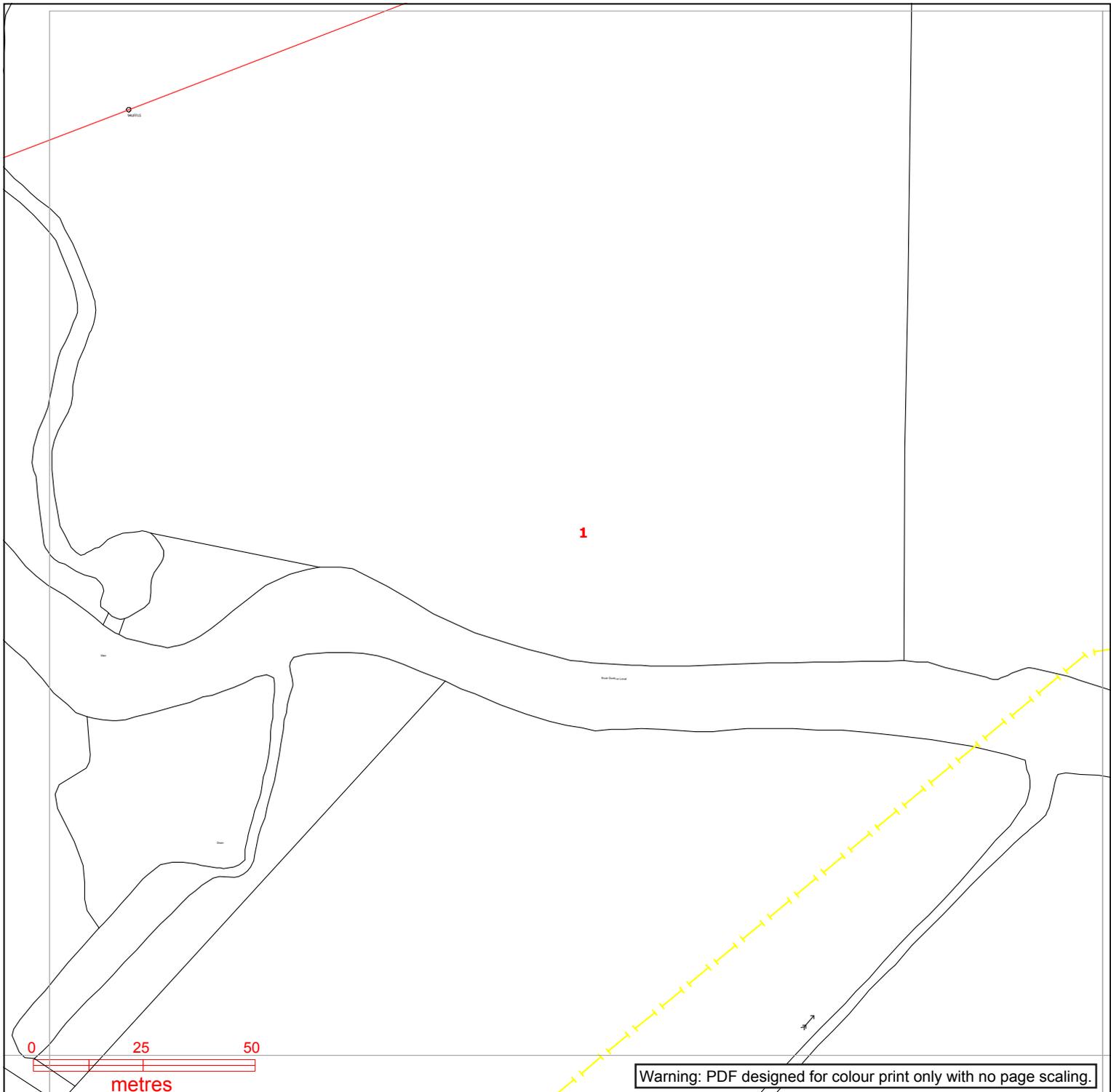
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV (11kV) ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	— — — — — — — — — —	— S — S — PME Earth Underground Earth	— P — P — Pole Mounted Transformer Ground Mounted Transformer

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**0800 6783 105**

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<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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Date Requested: 21/10/2020  
 Job Reference: 20280161  
 Site Location: 489222 242013  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-2

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

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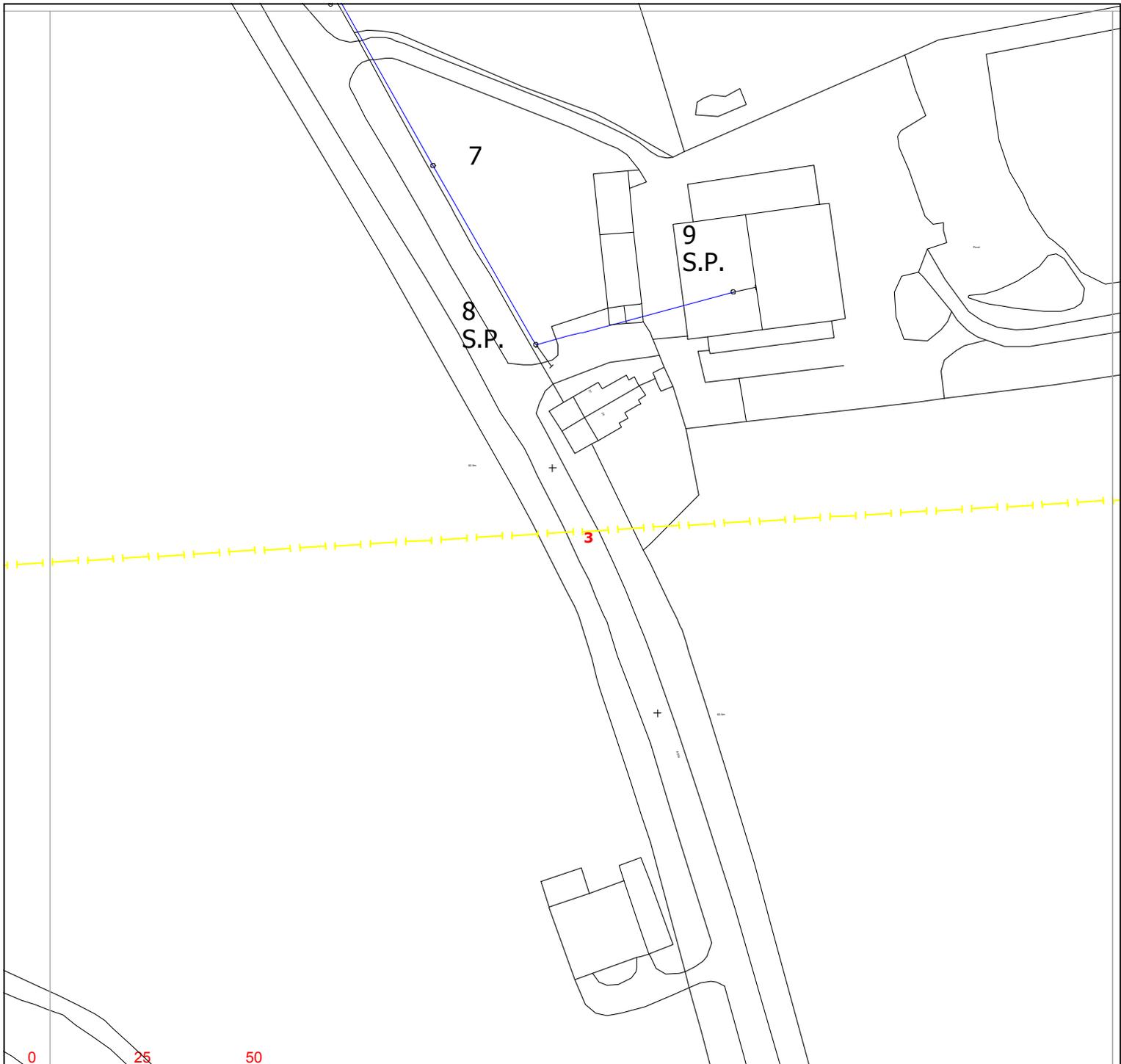
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> -S-S- <b>PME Earth</b> ⎓ <b>Underground Earth</b> -E-⎓	<b>Pilot Cables</b> -P-P- <b>Pole Mounted Transformer</b> ○ <b>Ground Mounted Transformer</b> □
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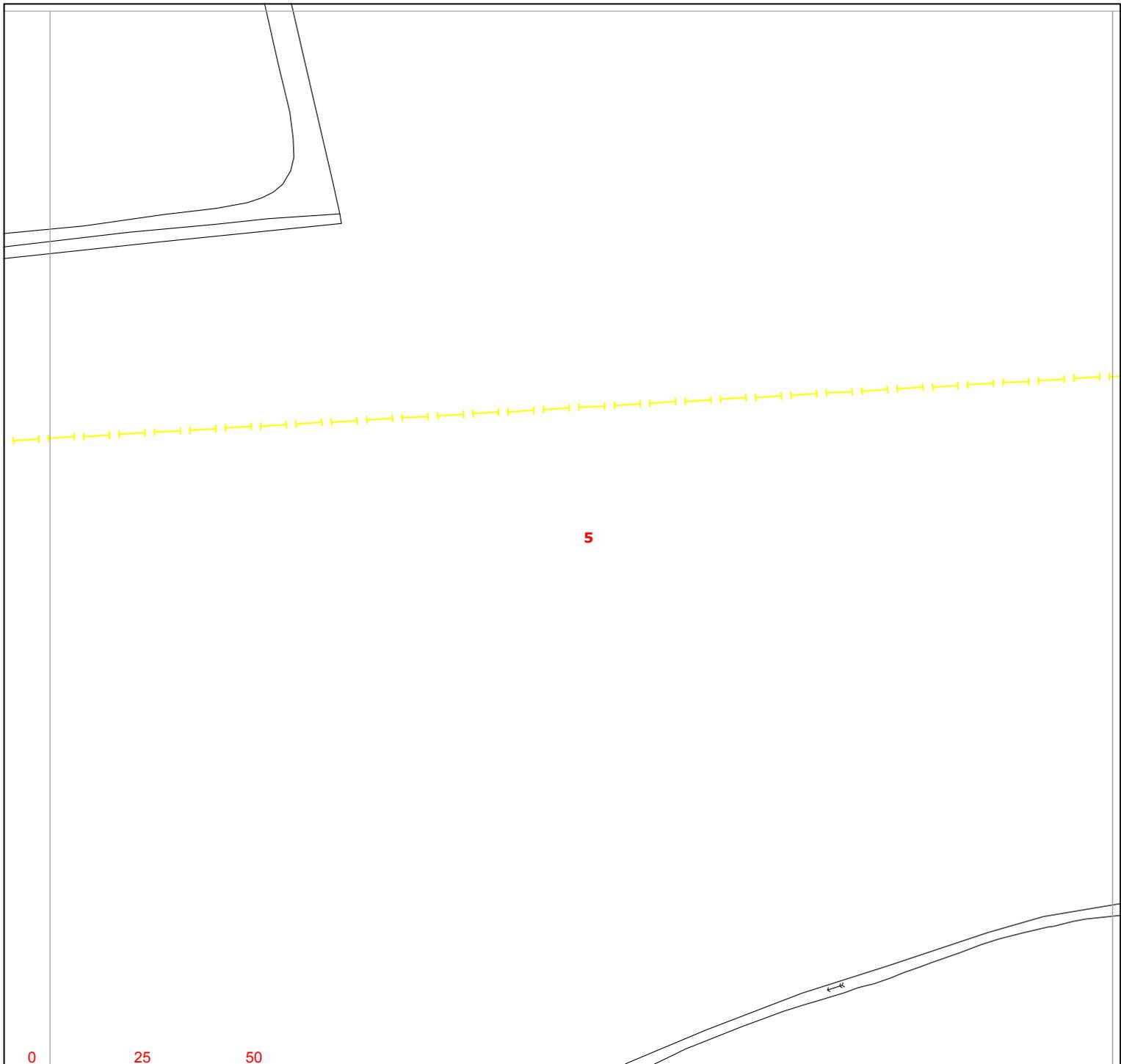
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV (11kV) ○ HV (33kV) ○ HV (66kV) ☒ HV (132kV)	<b>Underground Cable</b> - - - PL - - - Service - - - LV (11kV) - - - HV (33kV) - - - HV (66kV) - - - HV (132kV)	<b>SURF Telecoms</b> S S PME Earth E	<b>Pilot Cables</b> P P Pole Mounted Transformer Ground Mounted Transformer
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**IMPORTANT NOTICES**

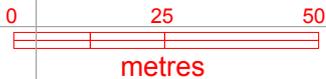
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Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ☒ HV (132kV)	- - - - - - - - - -	S S PME Earth E	P P Pole Mounted Transformer Ground Mounted Transformer

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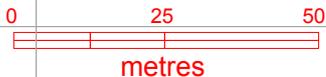
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ☒—☒ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth  Underground Earth	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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<b>Site Location</b> <b>Line/Area</b>  -----			<b>PME Earth</b>	

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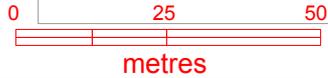
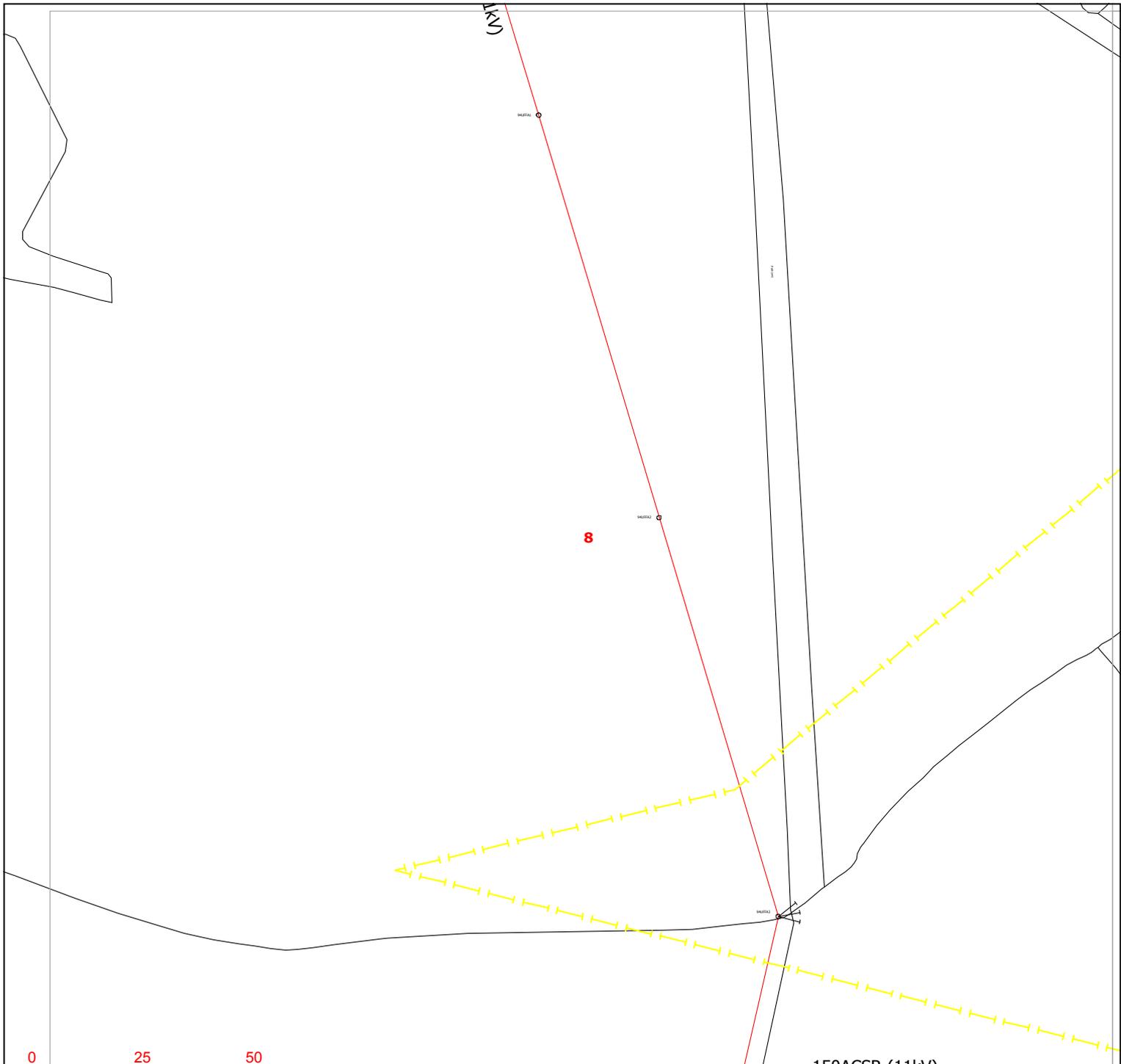
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150ACSR (11kV)  
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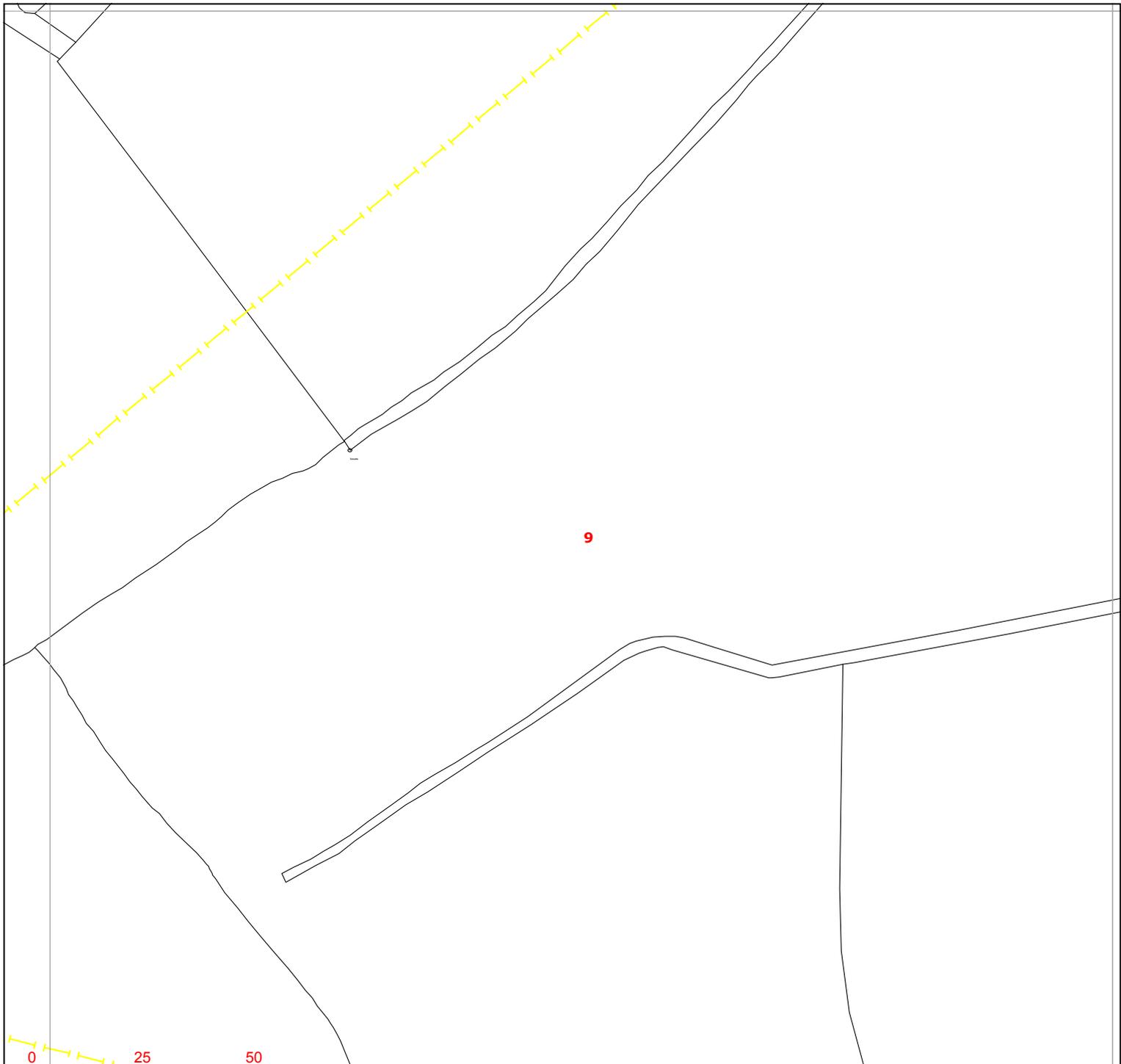
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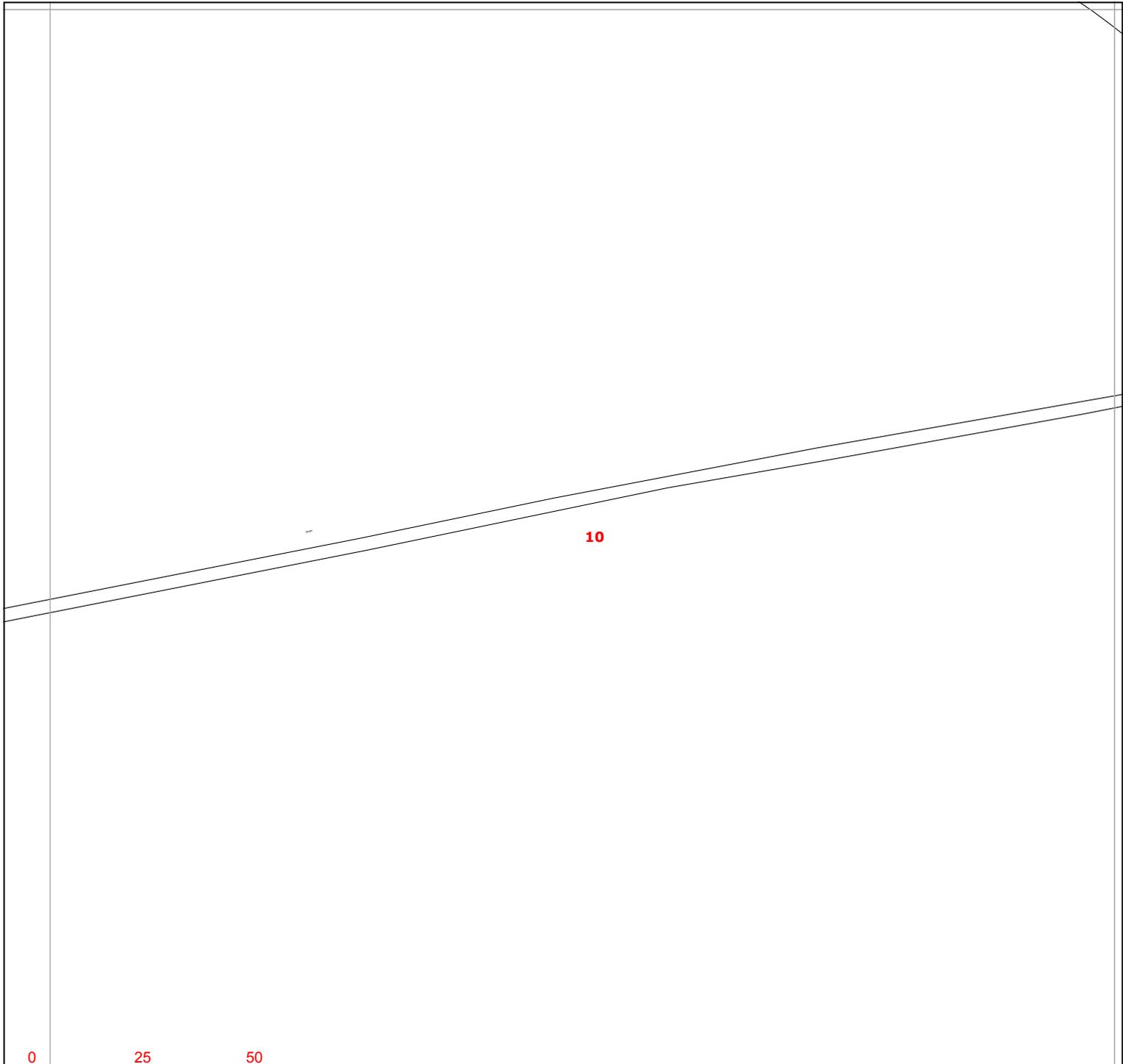
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> —S—S—  PME Earth  Underground Earth	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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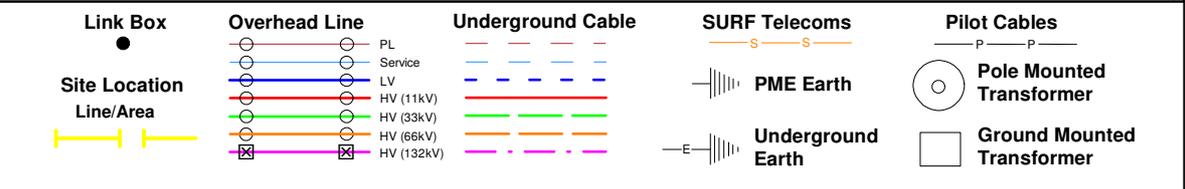
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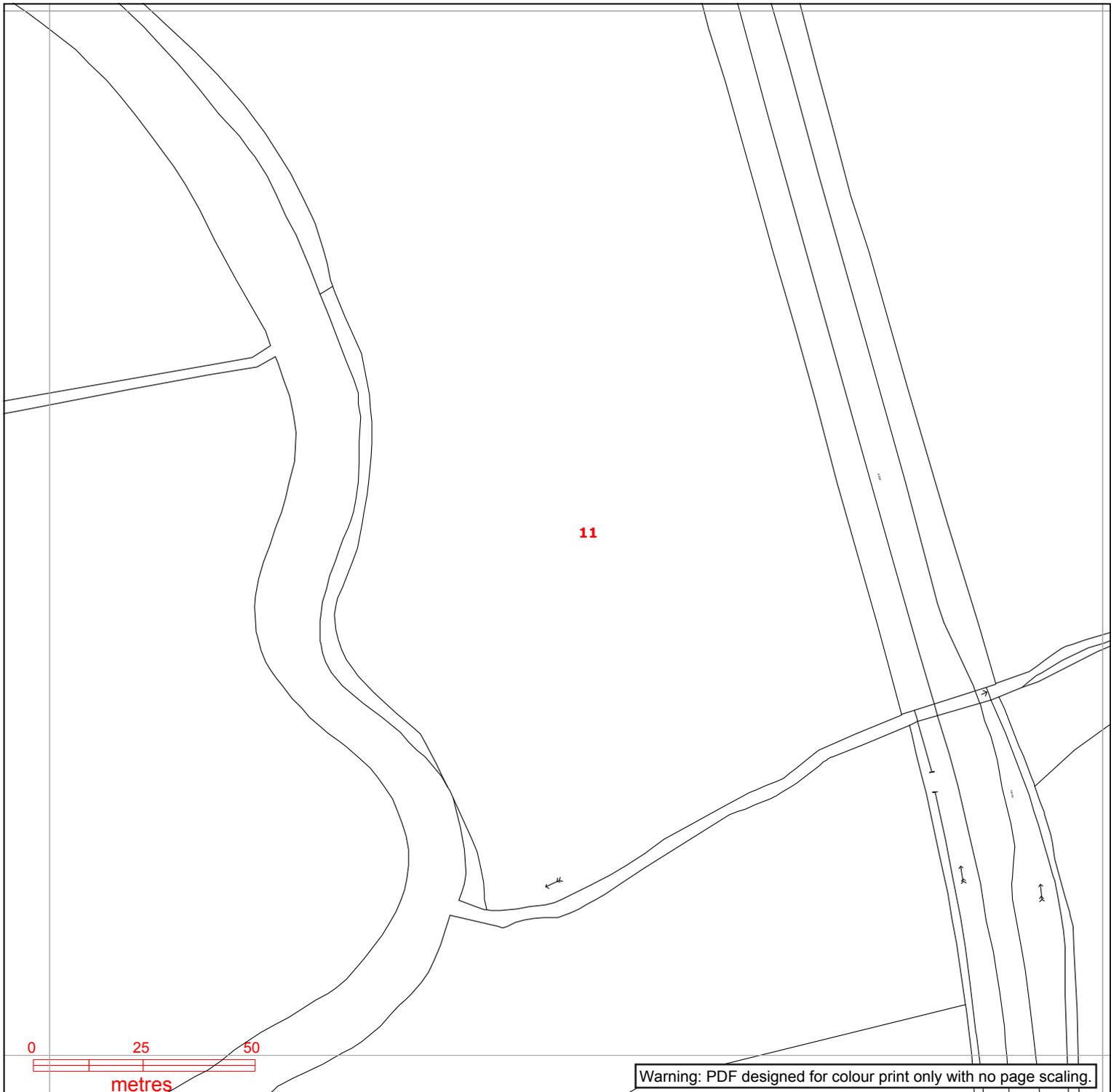


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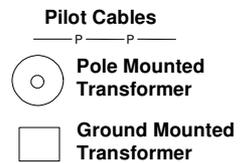
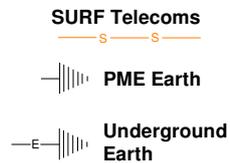
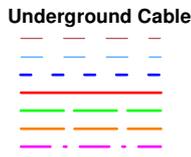
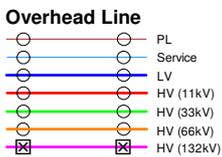
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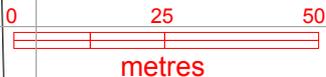


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<b>Link Box</b> 	<b>Overhead Line</b> 	<b>Underground Cable</b> 	<b>SURF Telecoms</b> 	<b>Pilot Cables</b> 
<b>Site Location</b> 			<b>PME Earth</b>	<b>Pole Mounted Transformer</b>
<b>Line/Area</b> 			<b>Underground Earth</b>	<b>Ground Mounted Transformer</b>

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**General Enquiries:**  
 All areas 0800 096 3080

Date Requested: 21/10/2020  
 Job Reference: 20280161  
 Site Location: 489222 242013  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-2

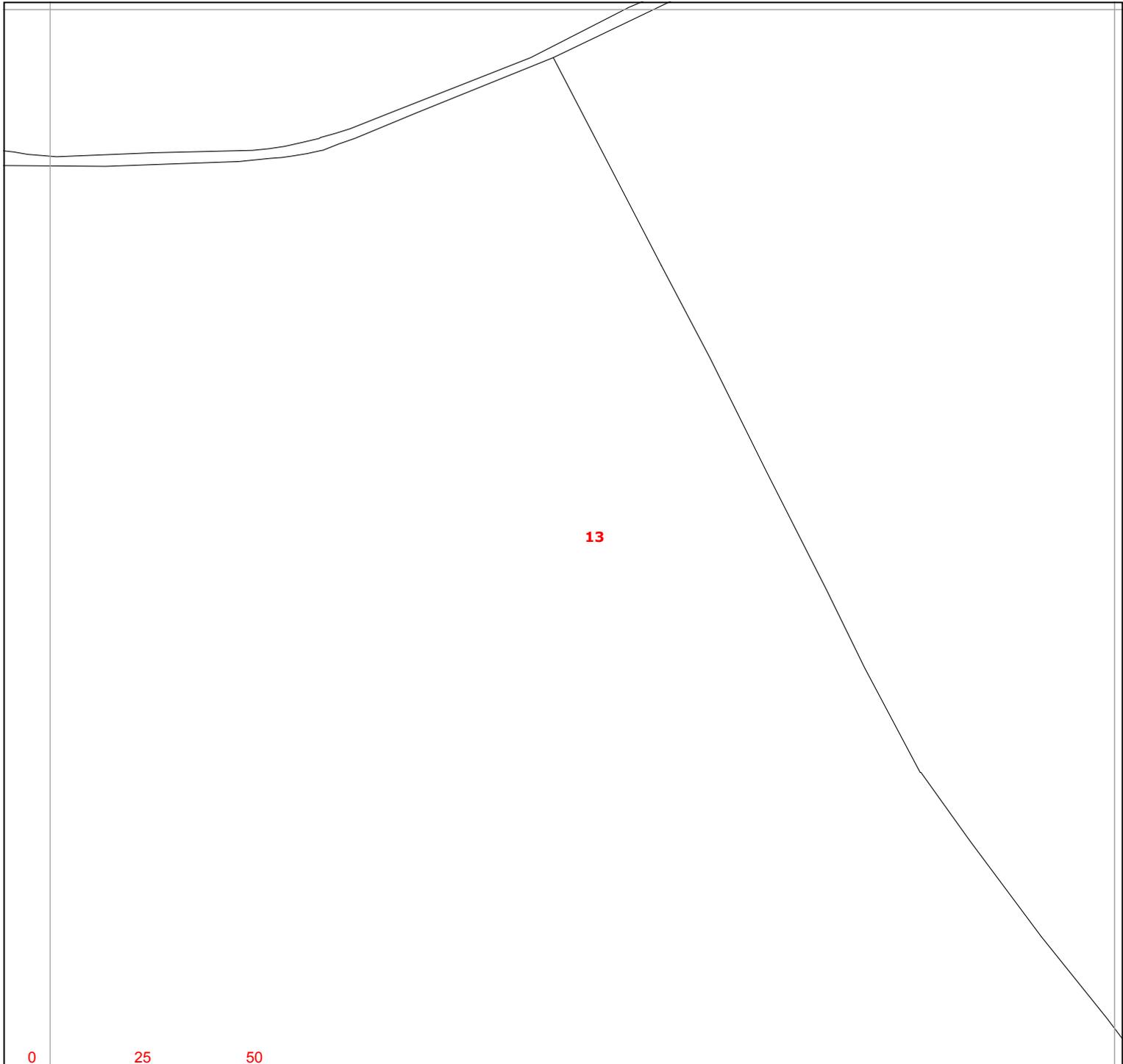
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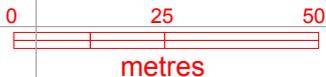
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Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

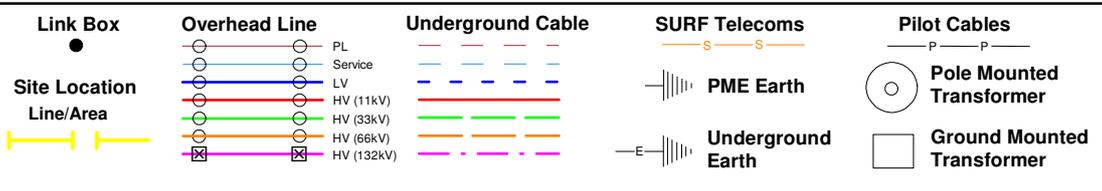
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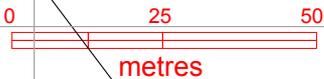
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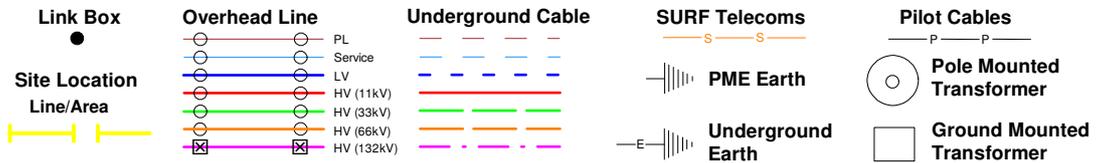
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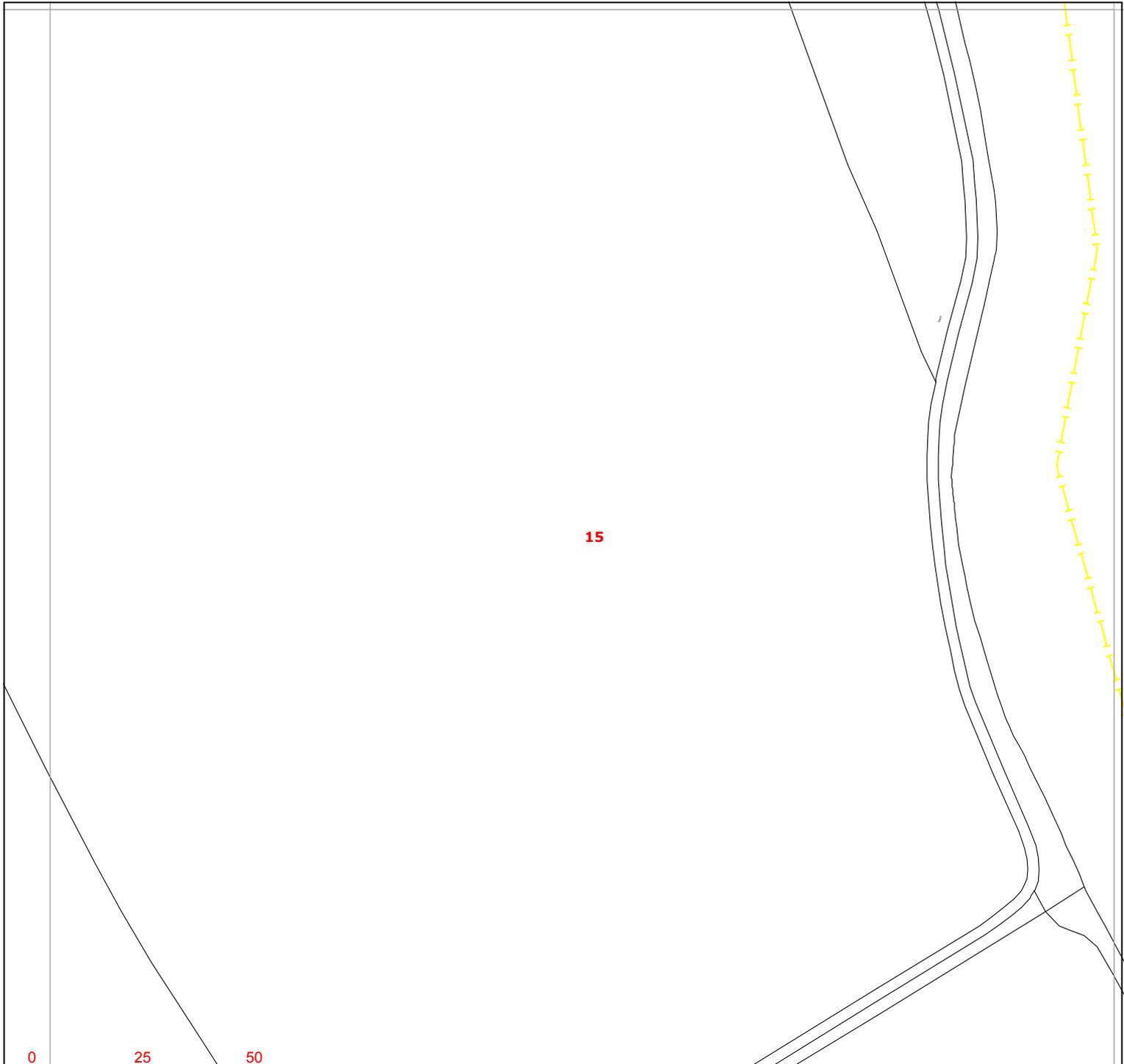


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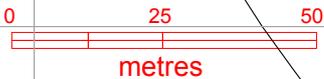
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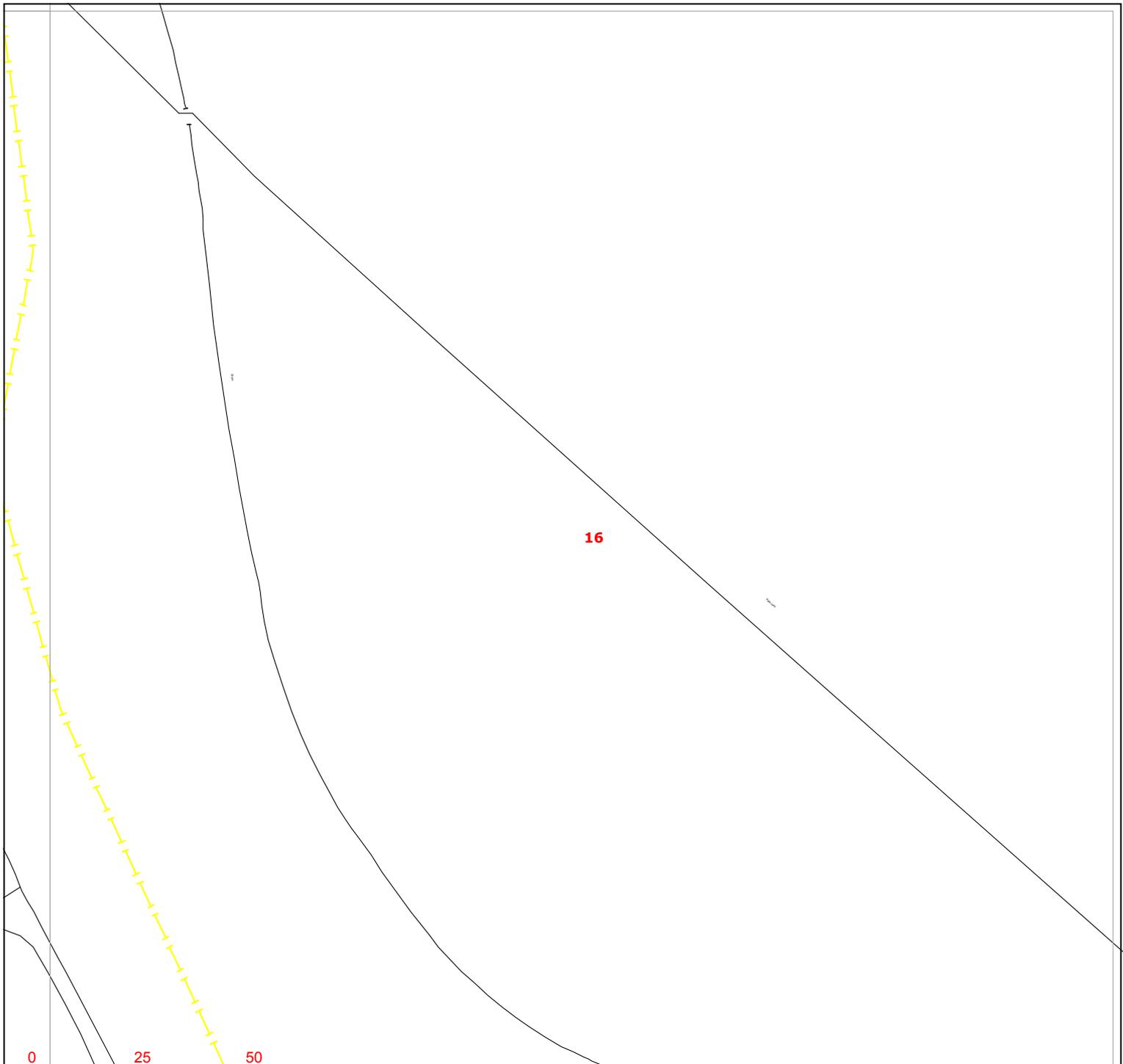
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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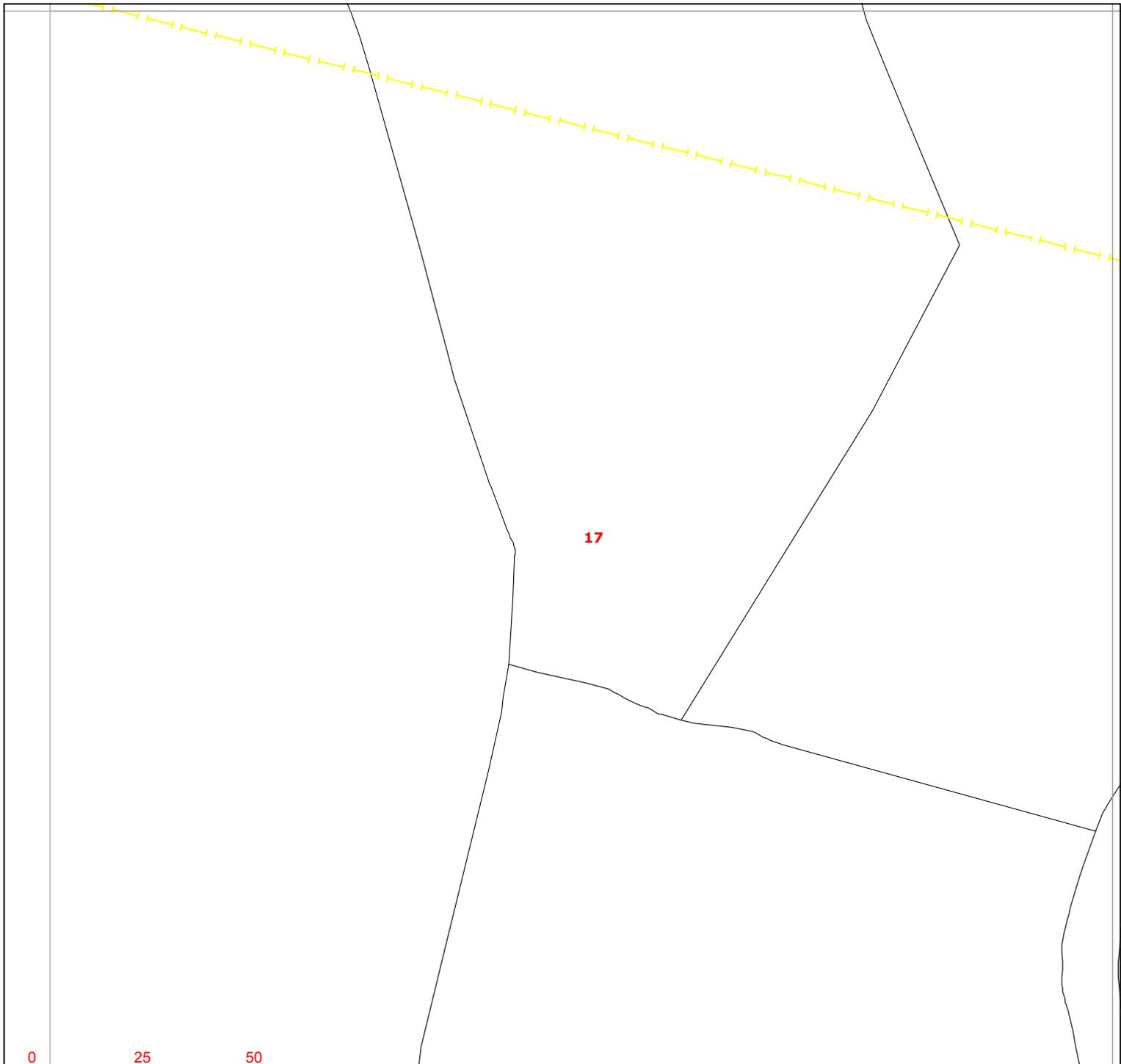
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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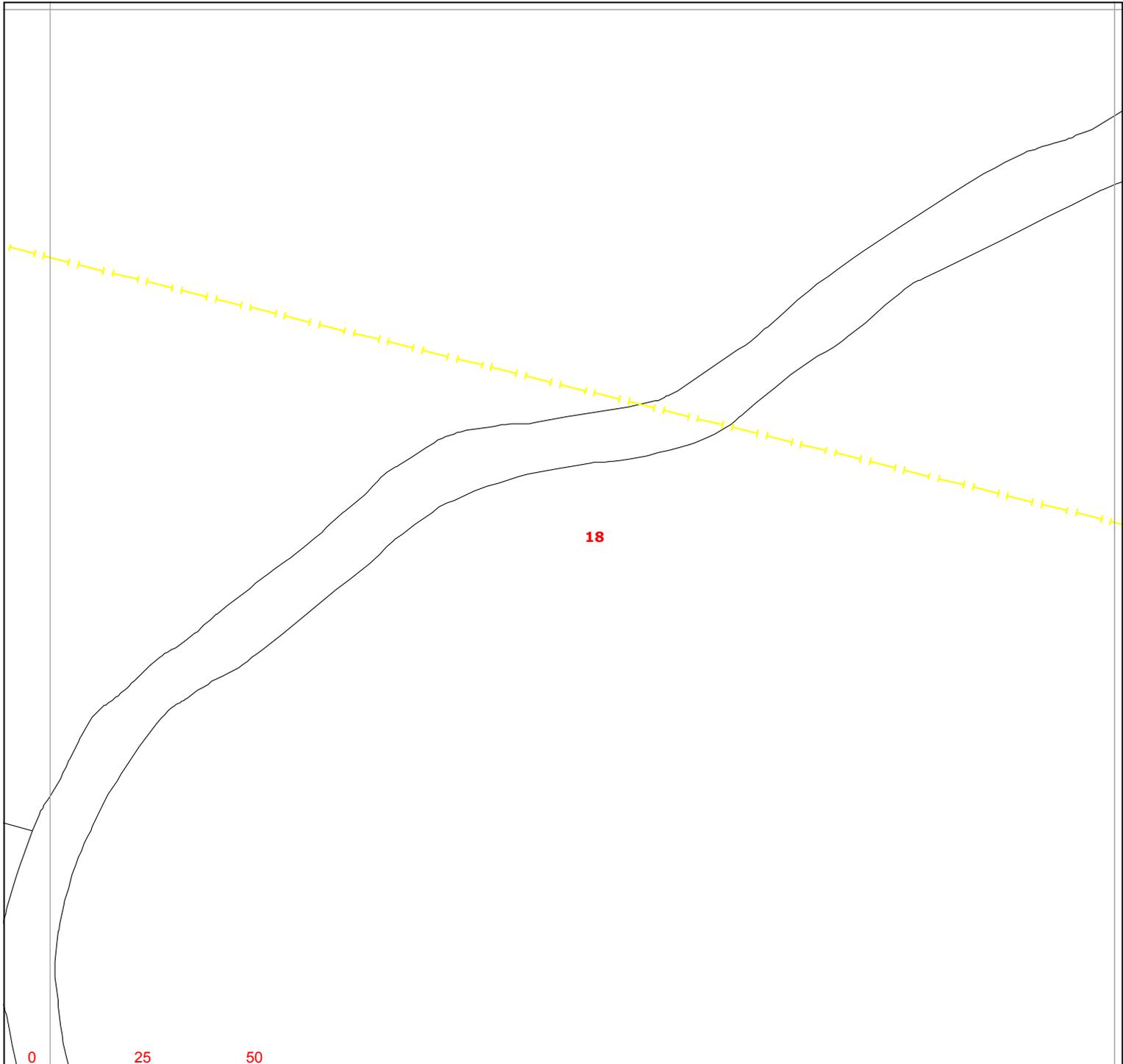
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  —E—	<b>Pilot Cables</b> —P—P—  ○ <b>Pole Mounted Transformer</b>  □ <b>Ground Mounted Transformer</b>
<b>Site Location</b> <b>Line/Area</b>  -----			<b>PME Earth</b>	

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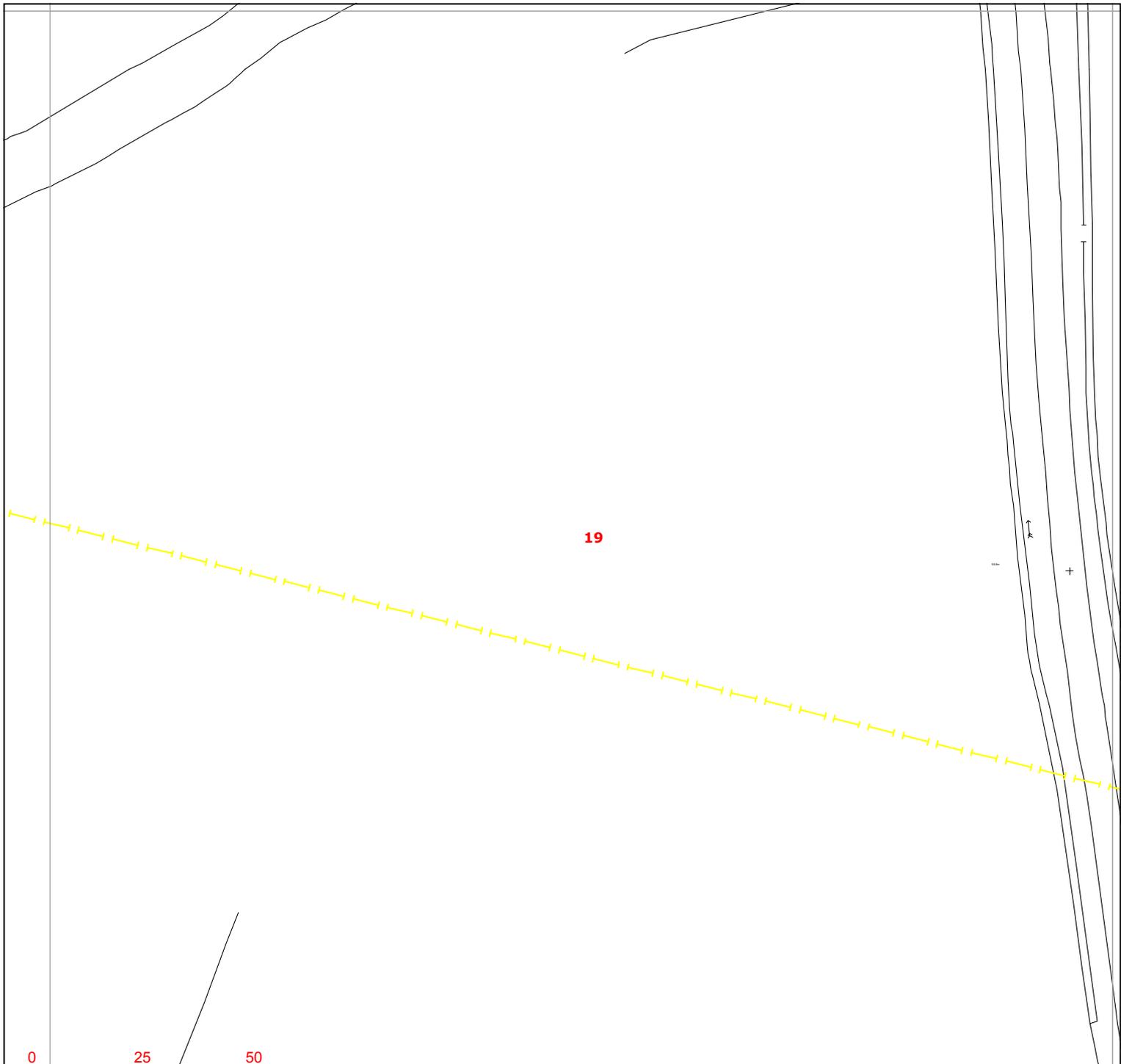
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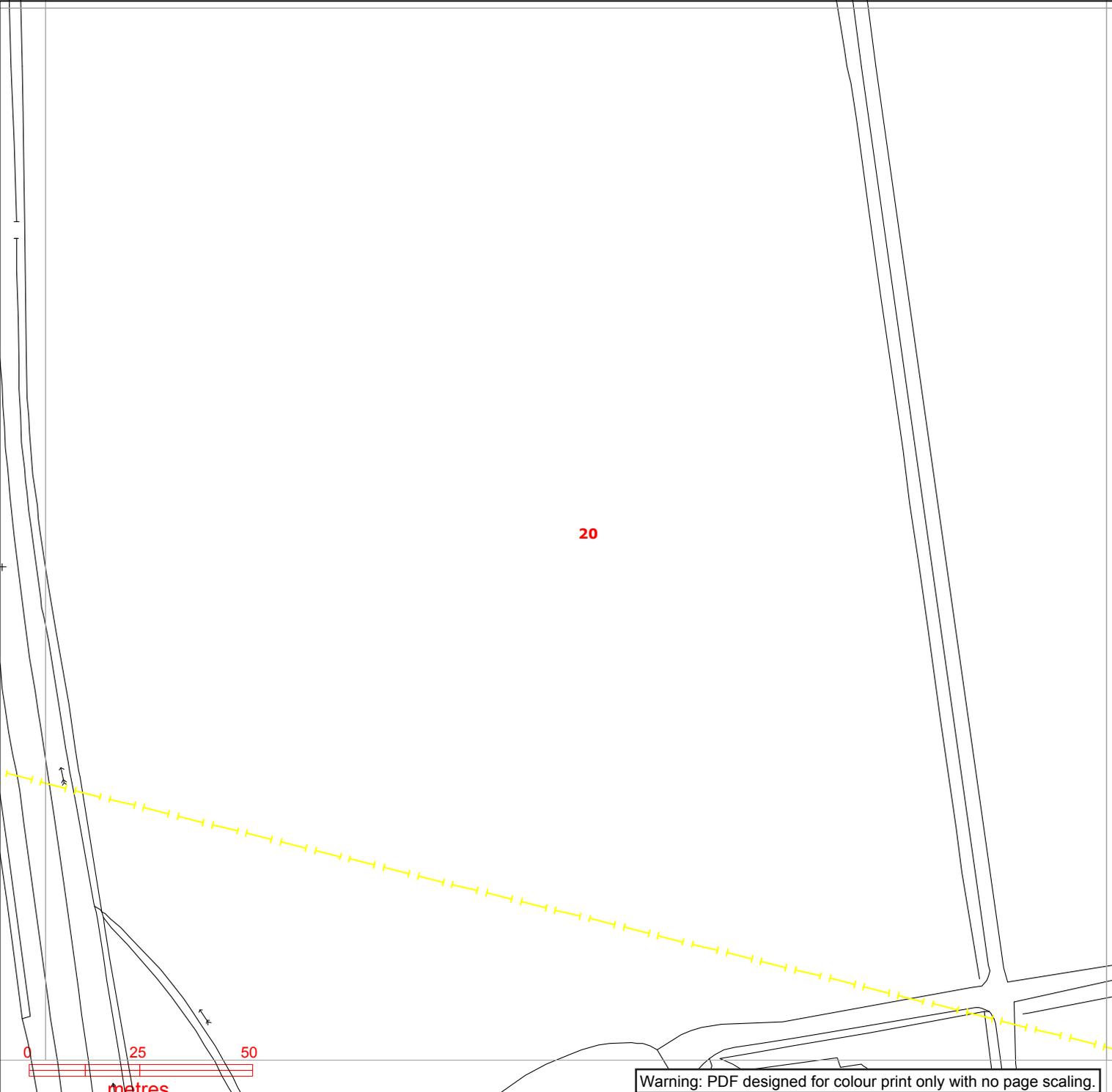
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ☒—☒ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> —S—S—  PME Earth  Underground Earth	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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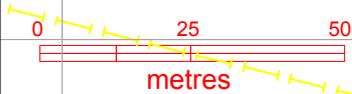
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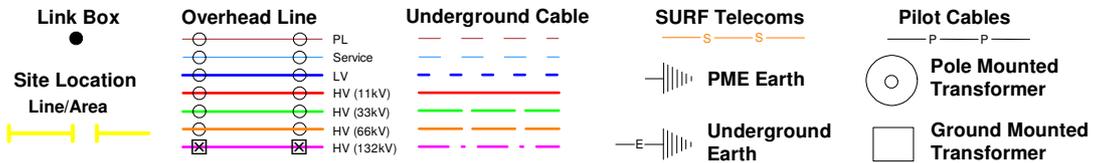
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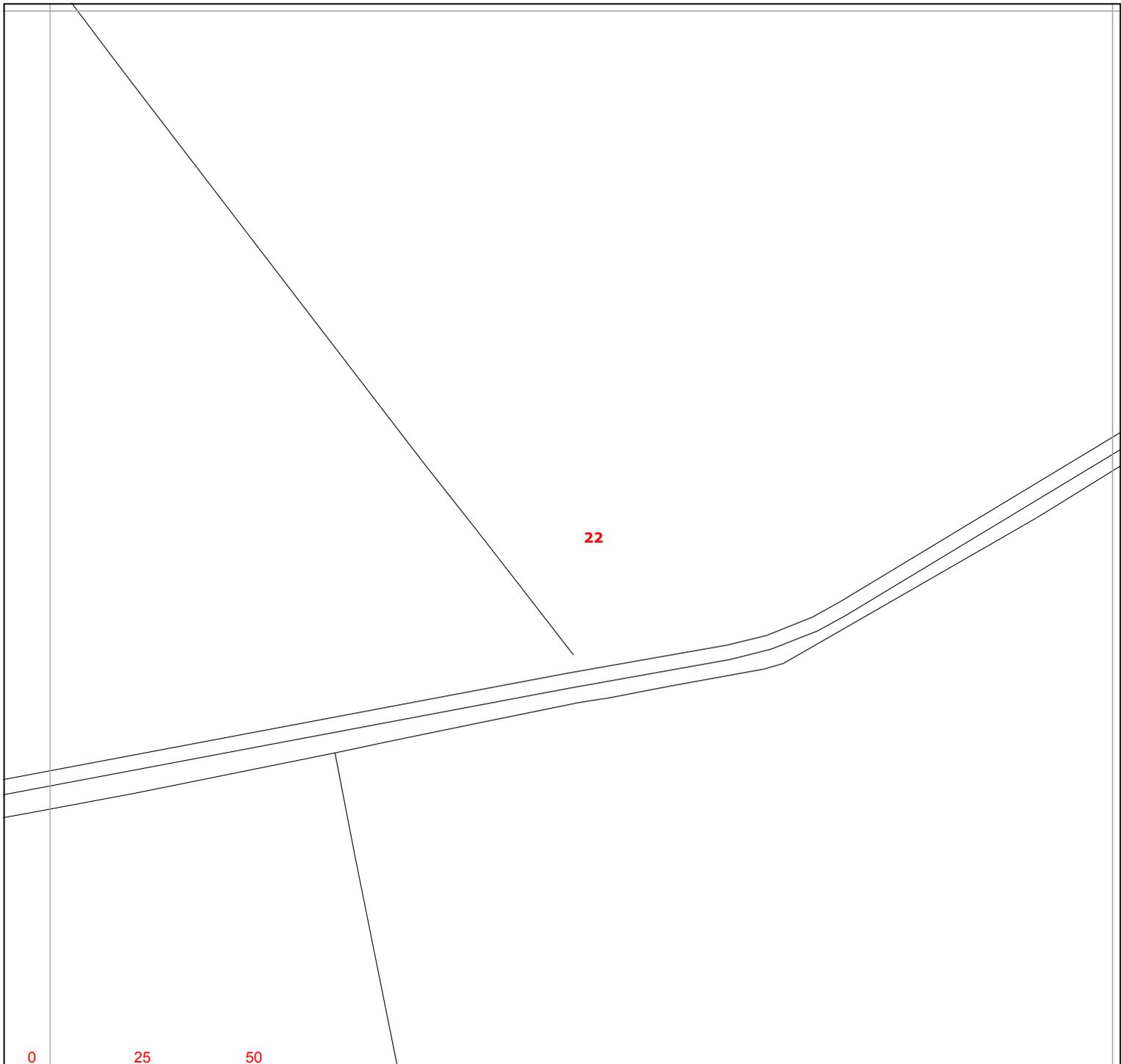


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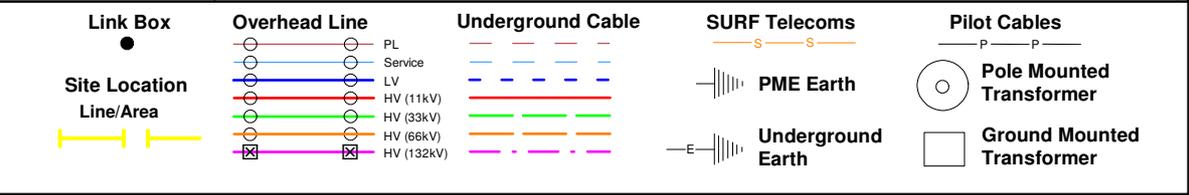
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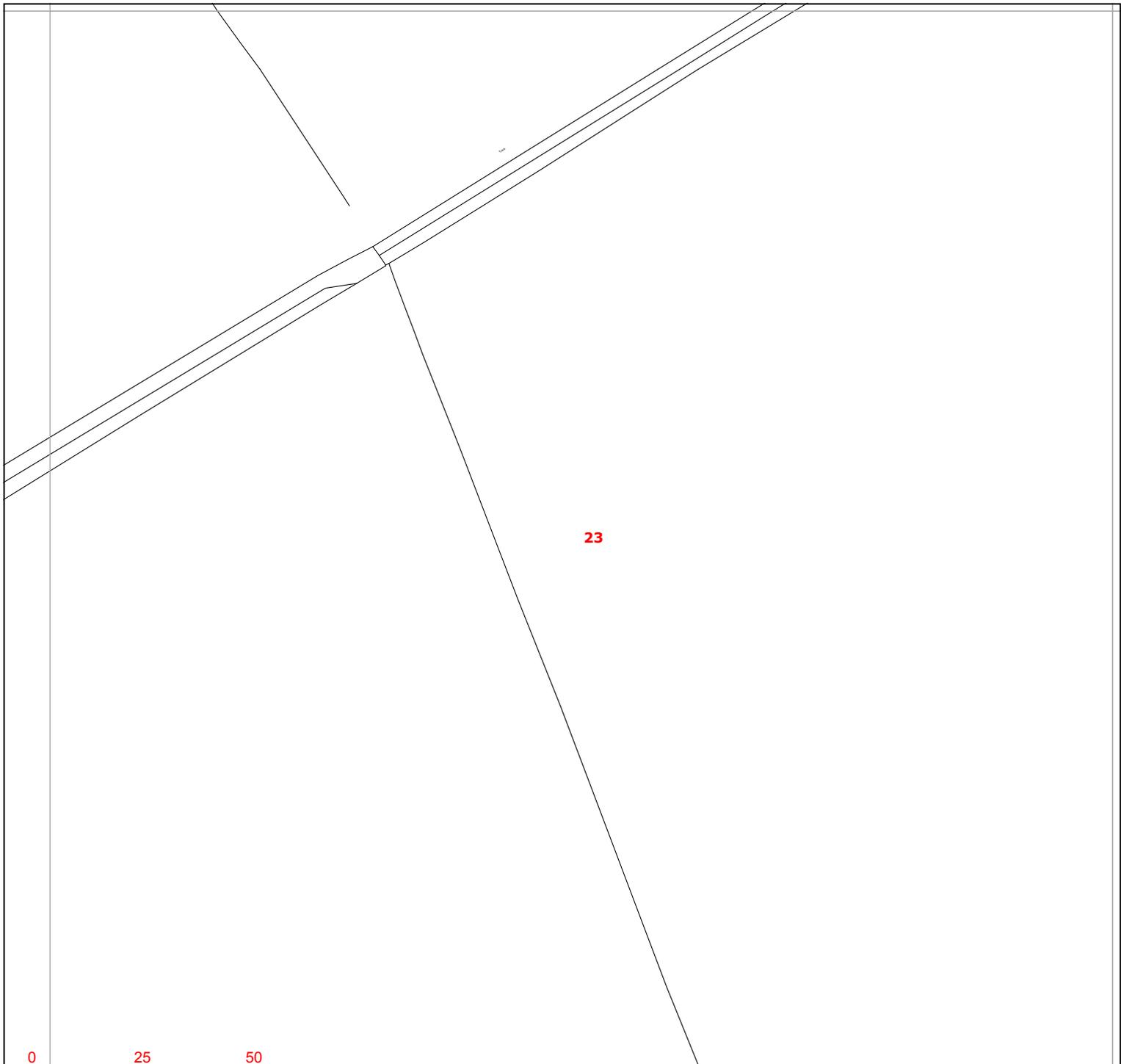


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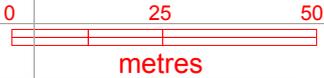
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23



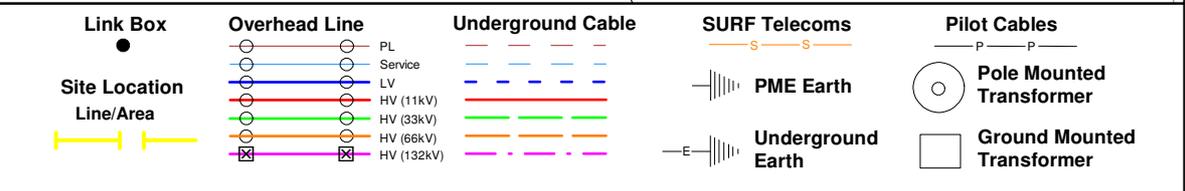
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**Contact Us**  
**Mapping Enquiries:**  
 All areas 0121 623 9780  
**General Enquiries:**  
 All areas 0800 096 3080

Date Requested: 21/10/2020  
 Job Reference: 20280161  
 Site Location: 489222 242013  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-2

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

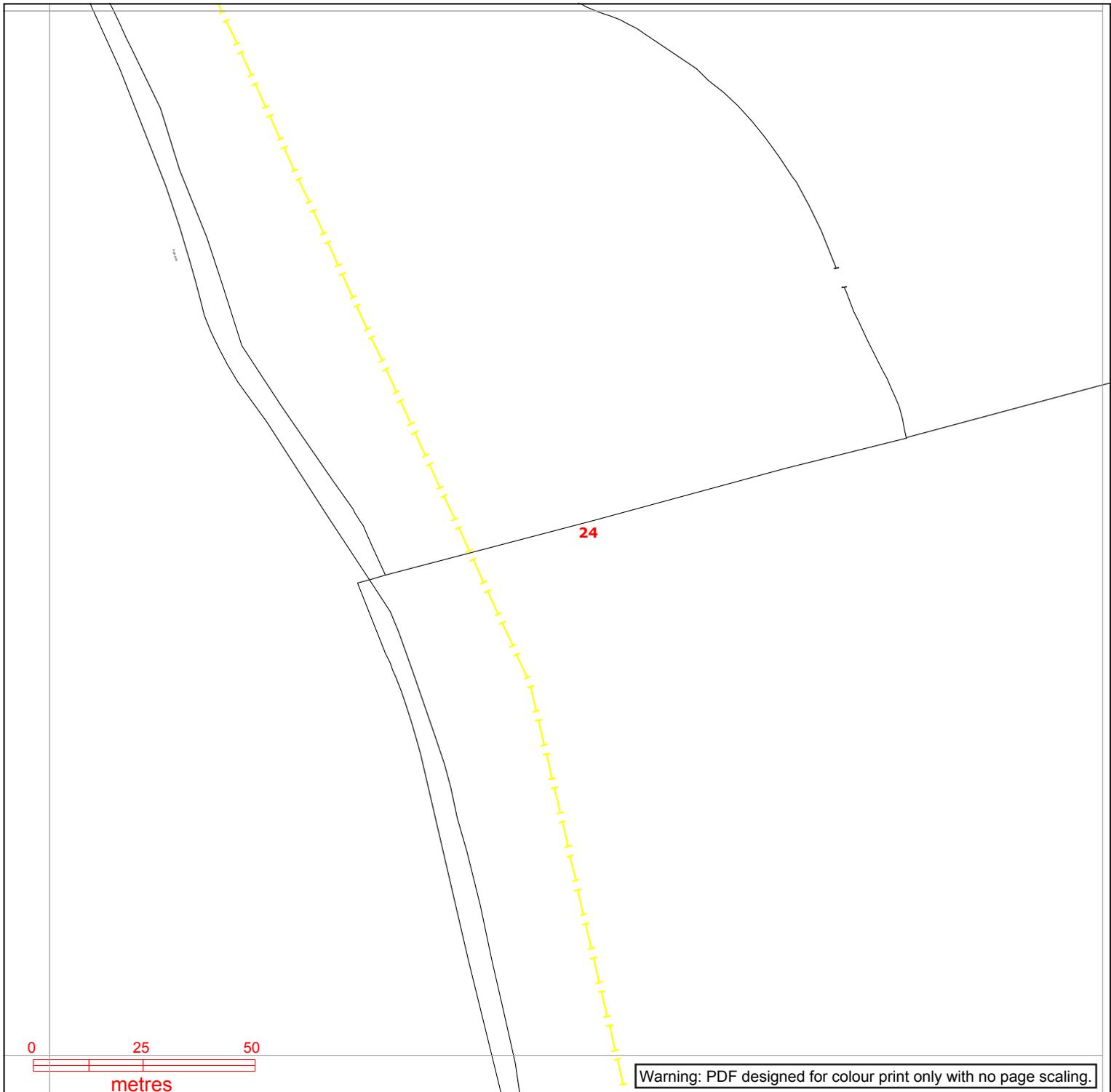


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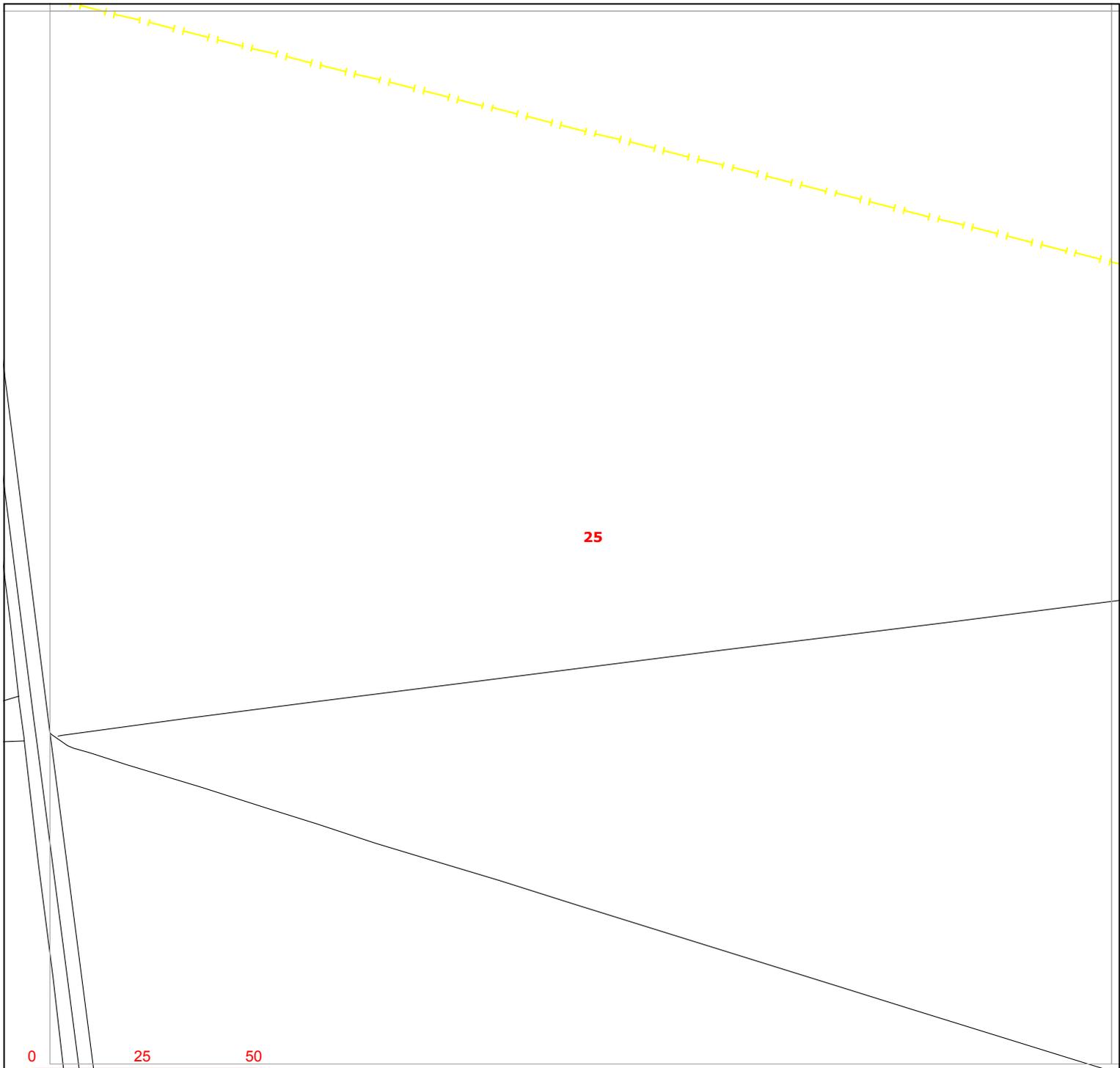
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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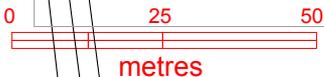
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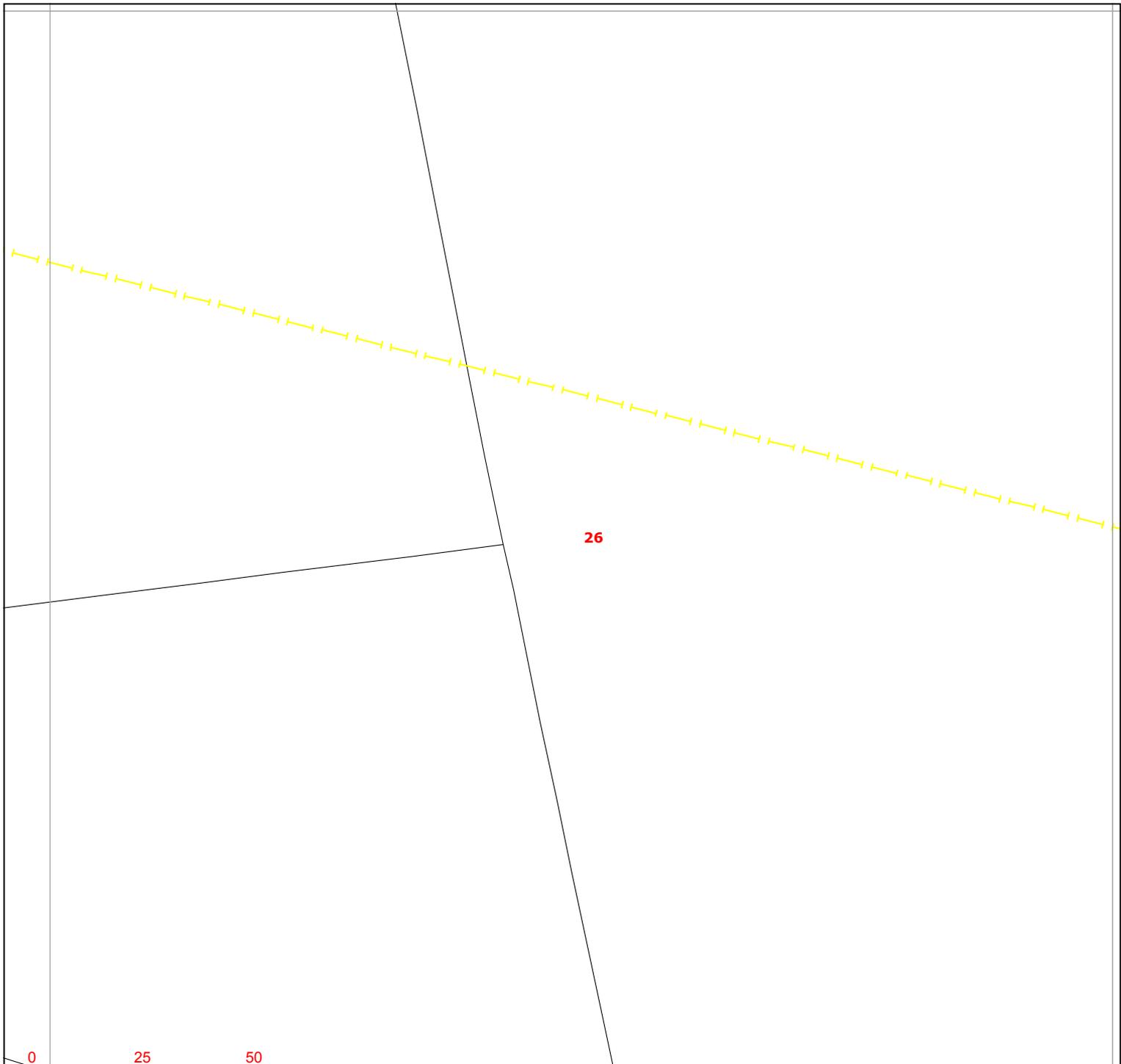
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<b>Site Location</b> <b>Line/Area</b>  -----			<b>PME Earth</b>	

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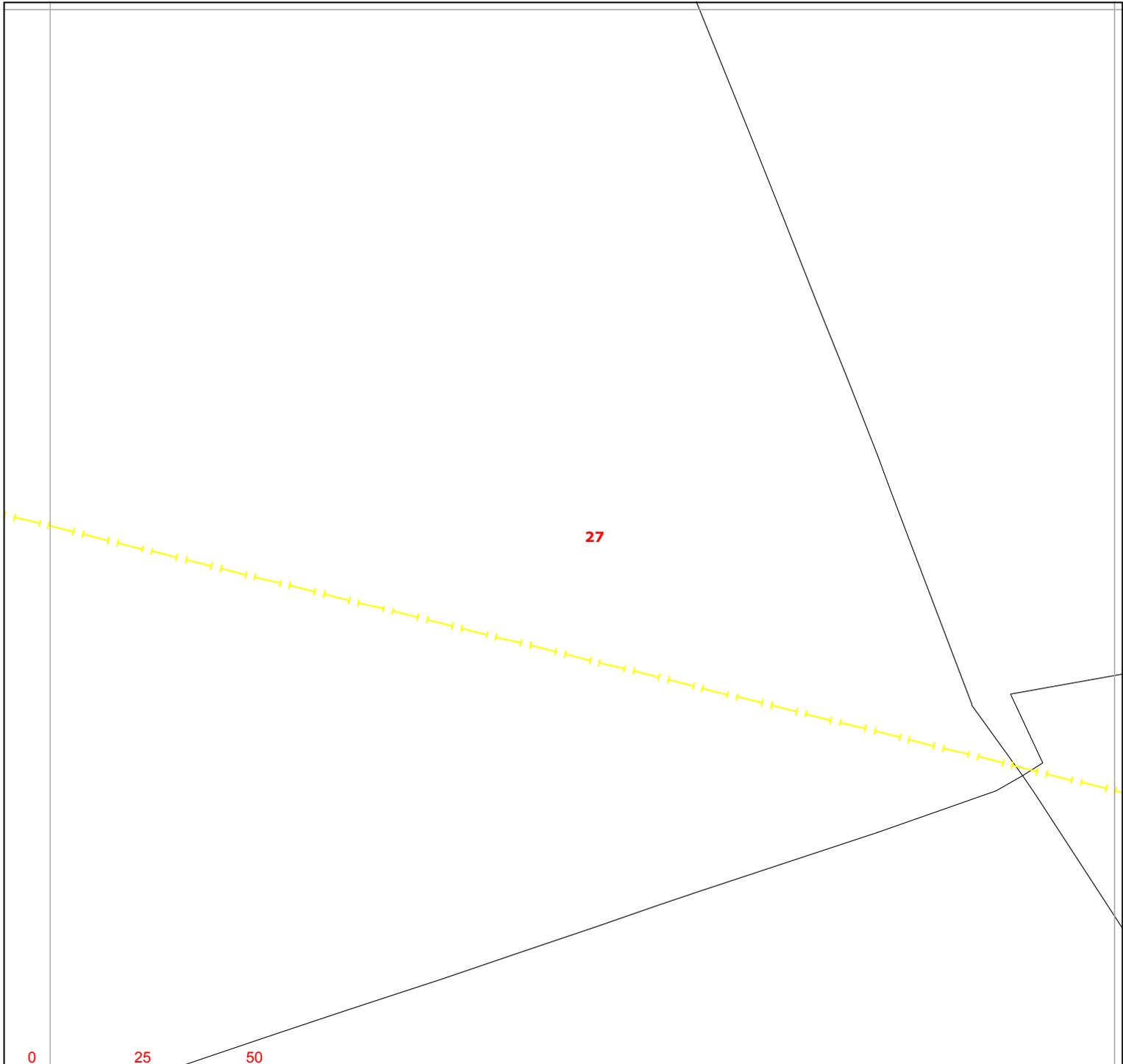
<p><b>Link Box</b> ●</p> <p><b>Site Location</b> <b>Line/Area</b></p>	<p><b>Overhead Line</b></p> <ul style="list-style-type: none"> <li>○ PL</li> <li>○ Service</li> <li>○ LV</li> <li>○ HV (11kV)</li> <li>○ HV (33kV)</li> <li>○ HV (66kV)</li> <li>⊠ HV (132kV)</li> </ul>	<p><b>Underground Cable</b></p> <ul style="list-style-type: none"> <li>---</li> <li>---</li> <li>---</li> <li>---</li> <li>---</li> <li>---</li> <li>---</li> </ul>	<p><b>SURF Telecoms</b></p> <p>—S—S—</p> <p>—E—</p> <p><b>PME Earth</b></p> <p><b>Underground Earth</b></p>	<p><b>Pilot Cables</b></p> <p>—P—P—</p> <p>○ <b>Pole Mounted Transformer</b></p> <p>□ <b>Ground Mounted Transformer</b></p>
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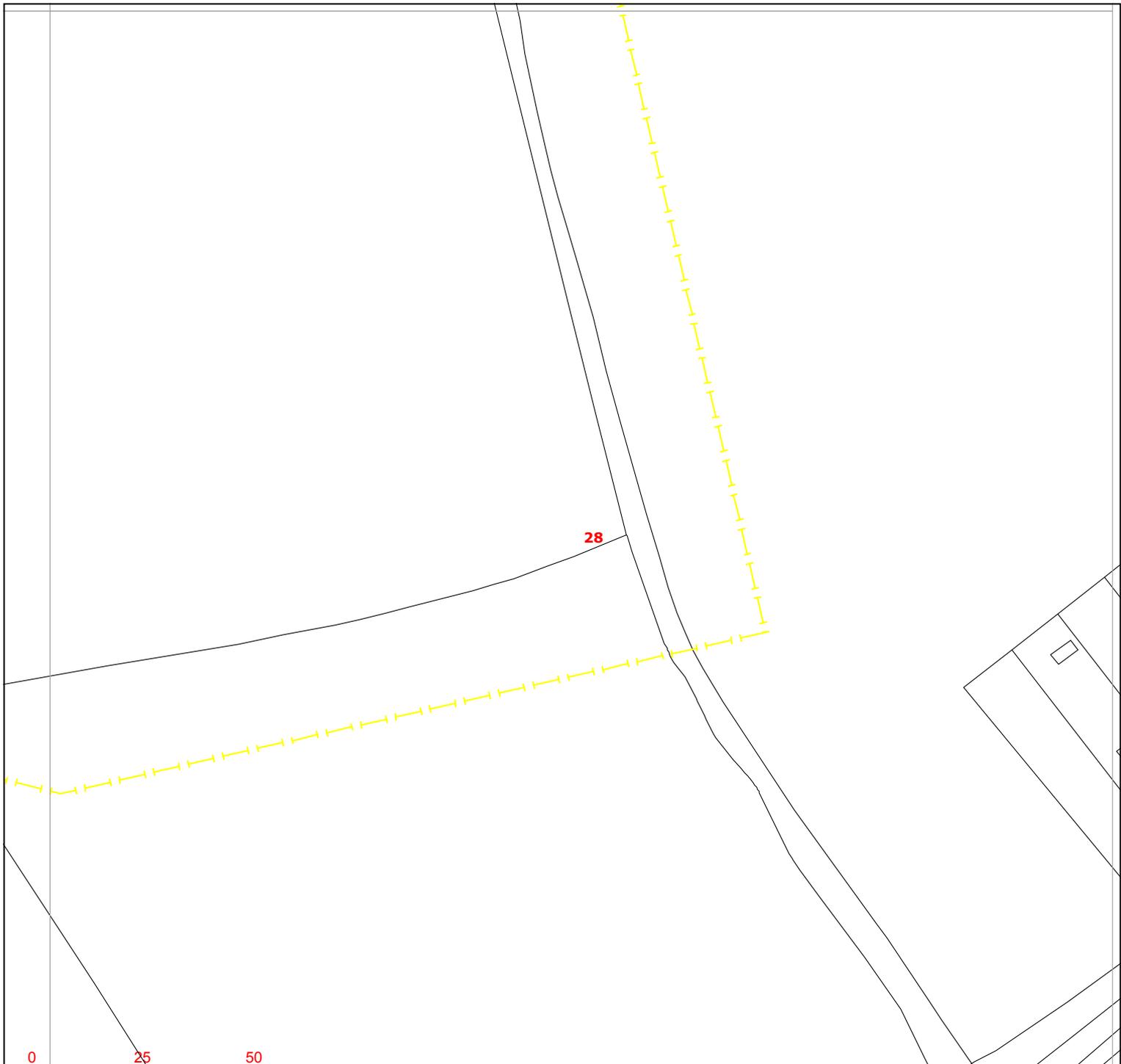
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Our Ref: 20280238      Your Ref: 89518/BRK-3

Wednesday, 21 October 2020

Chrissy Elliott  
The Hub 500 Park Avenue, Aztec West, Patchway  
Almondsbury  
Bristol  
BS32 4RZ

**Western Power Distribution,**  
Mapping Centre  
Toll End Road  
Tipton  
West Midlands  
United Kingdom  
DY4 0HH  
www.westernpower.co.uk

Dear Chrissy Elliott

Thank you for your enquiry dated Wednesday, 21 October 2020

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

Map Response  
T 0121 623 9780  
WPDMapResponse  
@westernpower.co.uk

**LinesearchbeforeUdig**  
Help Desk 0845 437 7365

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

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

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

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

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

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

Western Power Distribution PLC  
South West - 02366894  
South Wales - 02366985  
East Midlands - 02366923  
West Midlands - 03600574

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

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

Registered in  
England and Wales

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

Registered Office:  
Avonbank  
Feeder Road  
Bristol  
BS2 0TB

Yours sincerely  
WPD Map Response Team

## Contact Us

### Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

### Mapping Enquiries

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

Telephone           0121 623 9780  
Email                WPDMapResponse@westernpower.co.uk

### General Enquiries

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

All areas            0800 096 3080

### LinesearchbeforeUdig

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

Telephone           0845 437 7365  
Email                enquiries@linesearchbeforeudig.co.uk  
Website             www.linesearchbeforeudig.co.uk

## Steps to help keep you safe

- **If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.**

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

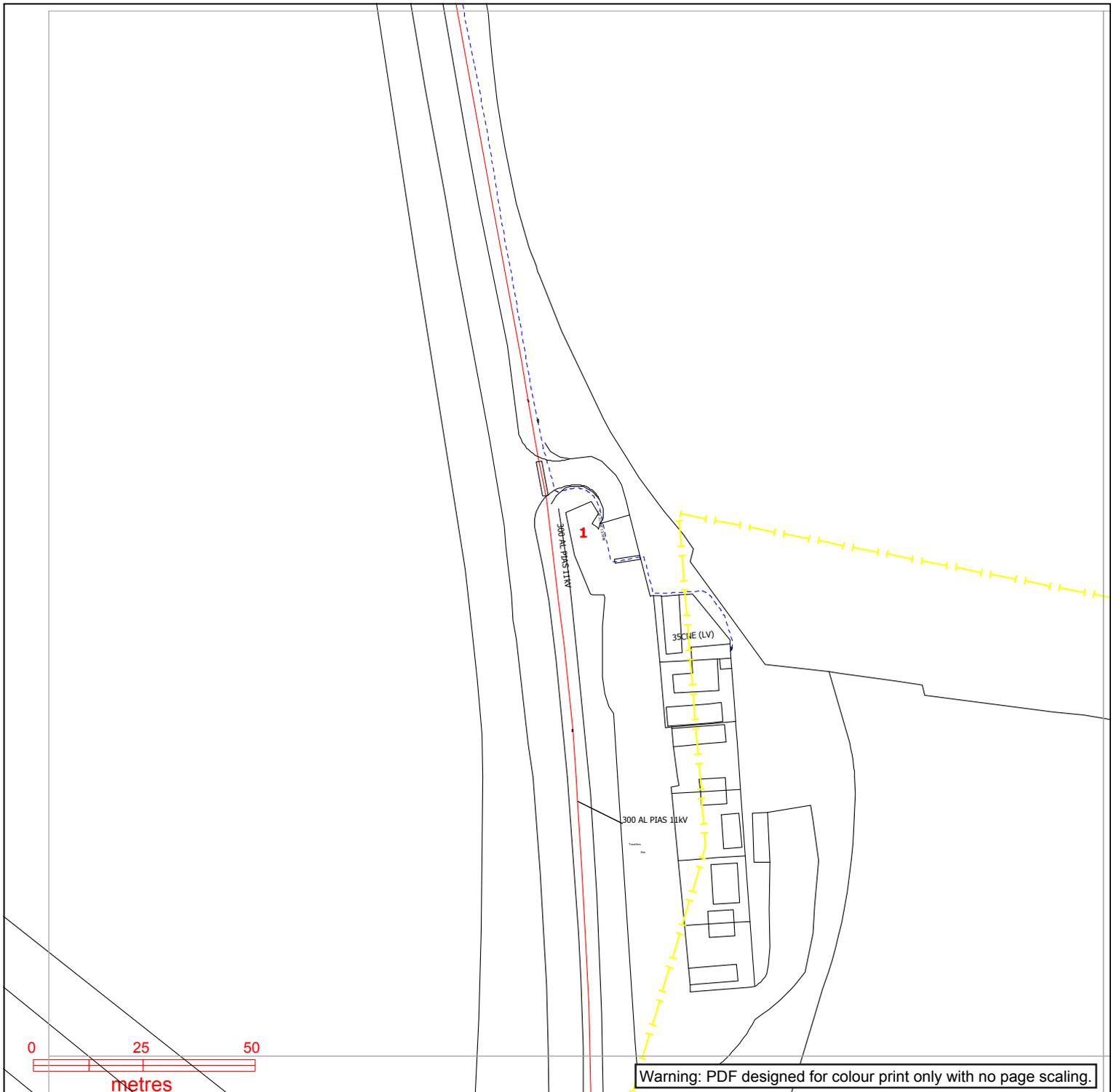
- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

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

### **Safety Documents:**

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>





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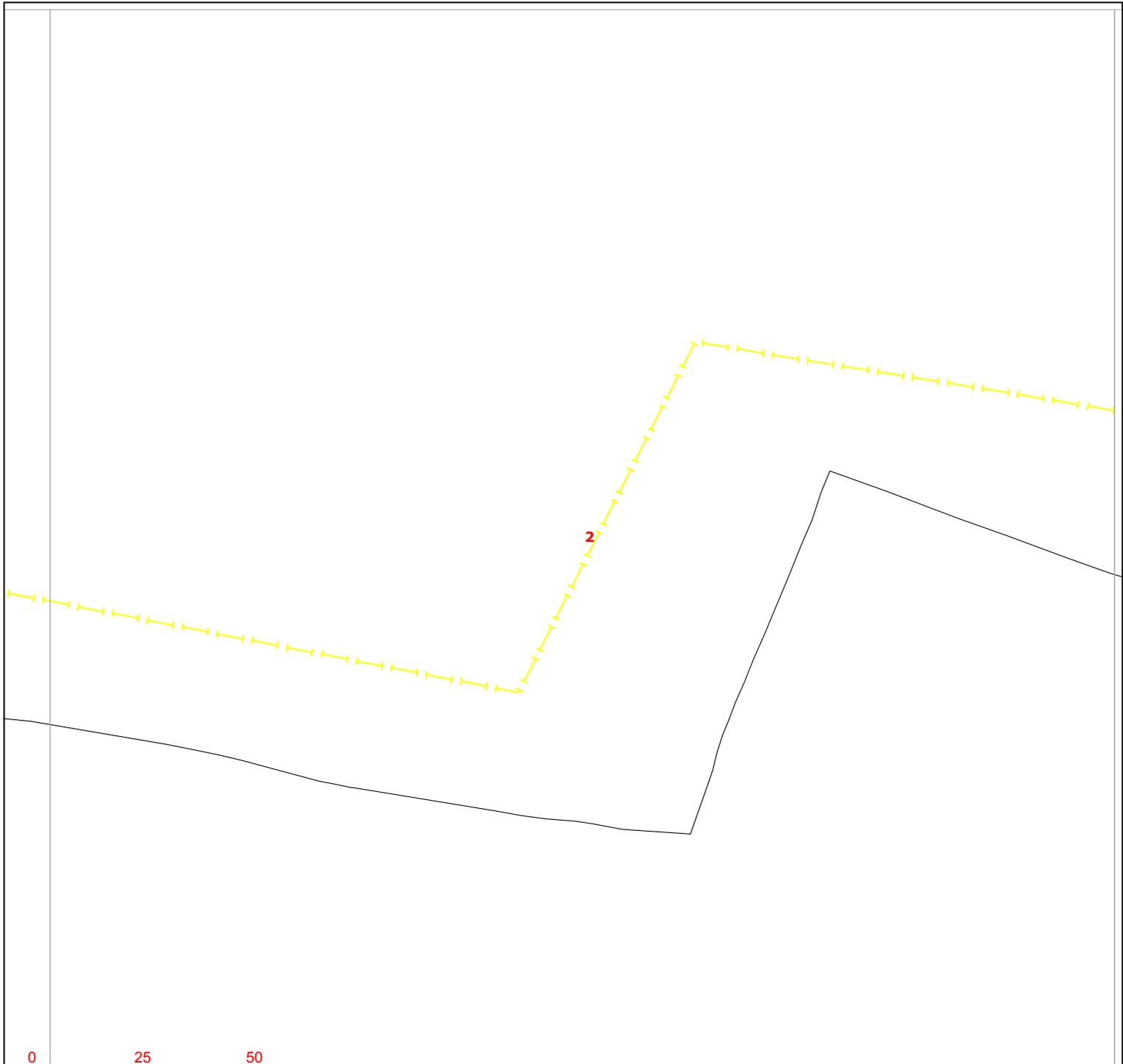
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**Link Box**



**Site Location**  
**Line/Area**



**Overhead Line**

- PL
- Service
- LV
- HV (11kV)
- HV (33kV)
- HV (66kV)
- ⊠ HV (132kV)

**Underground Cable**

- 
- 
- 
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**SURF Telecoms**

- S—S—
- ⎓ **PME Earth**
- E⎓ **Underground Earth**

**Pilot Cables**

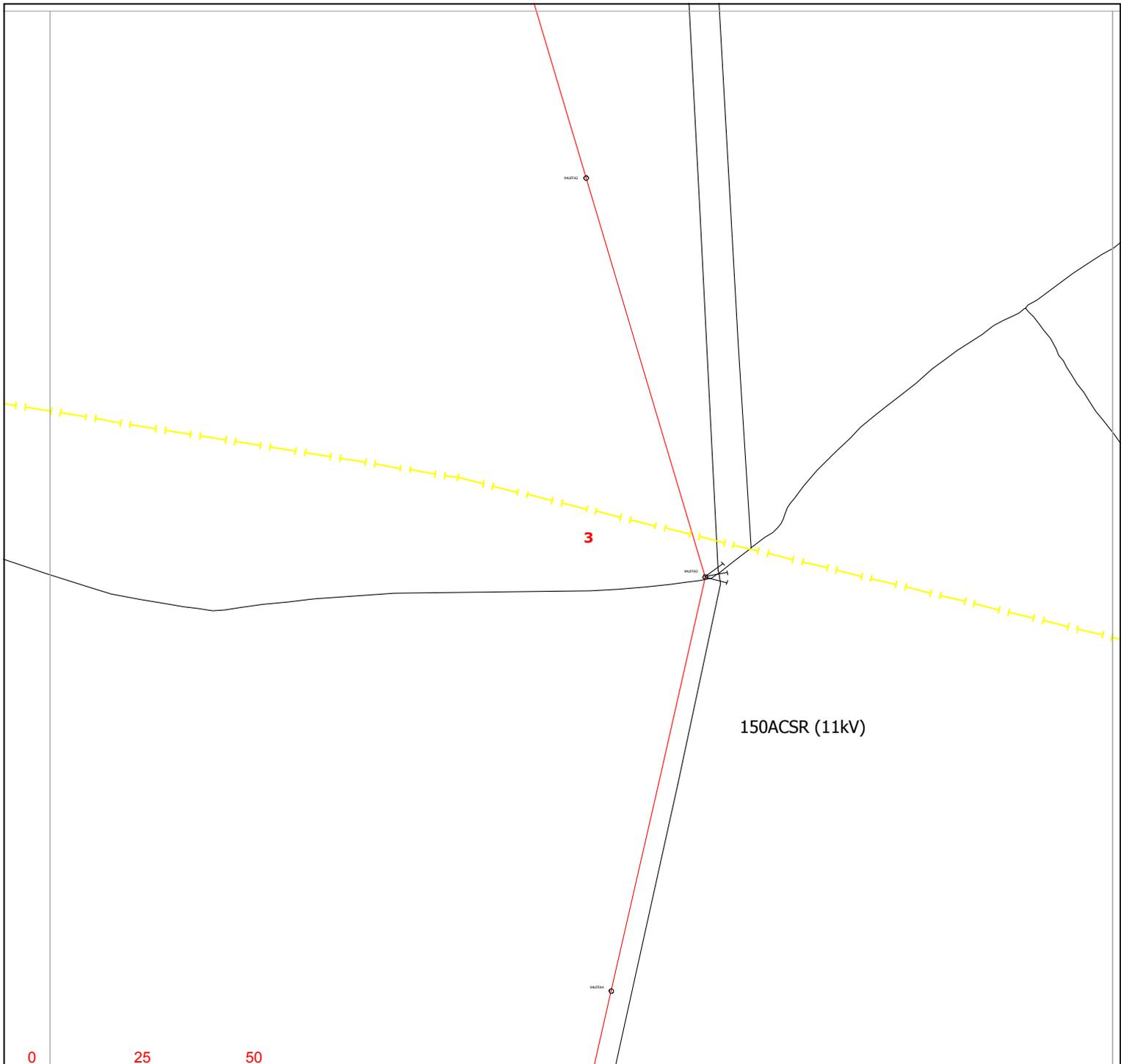
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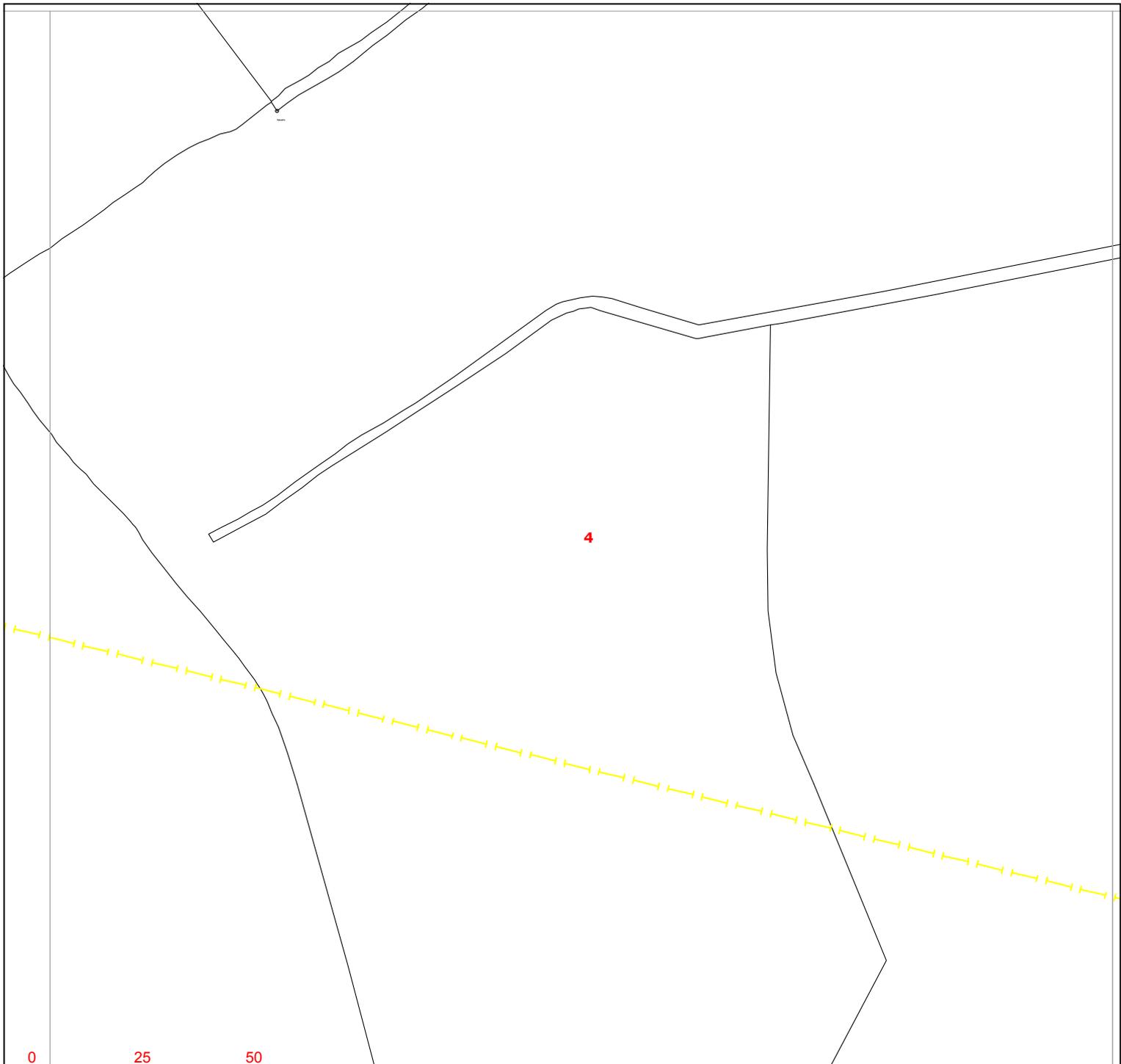
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> - - - PL - - - Service - - - LV (11kV) - - - HV (33kV) - - - HV (66kV) - - - HV (132kV)	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> -P-P- Pole Mounted Transformer Ground Mounted Transformer
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**General Enquiries:**  
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Date Requested: 21/10/2020  
 Job Reference: 20280238  
 Site Location: 489001 241699  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-3

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

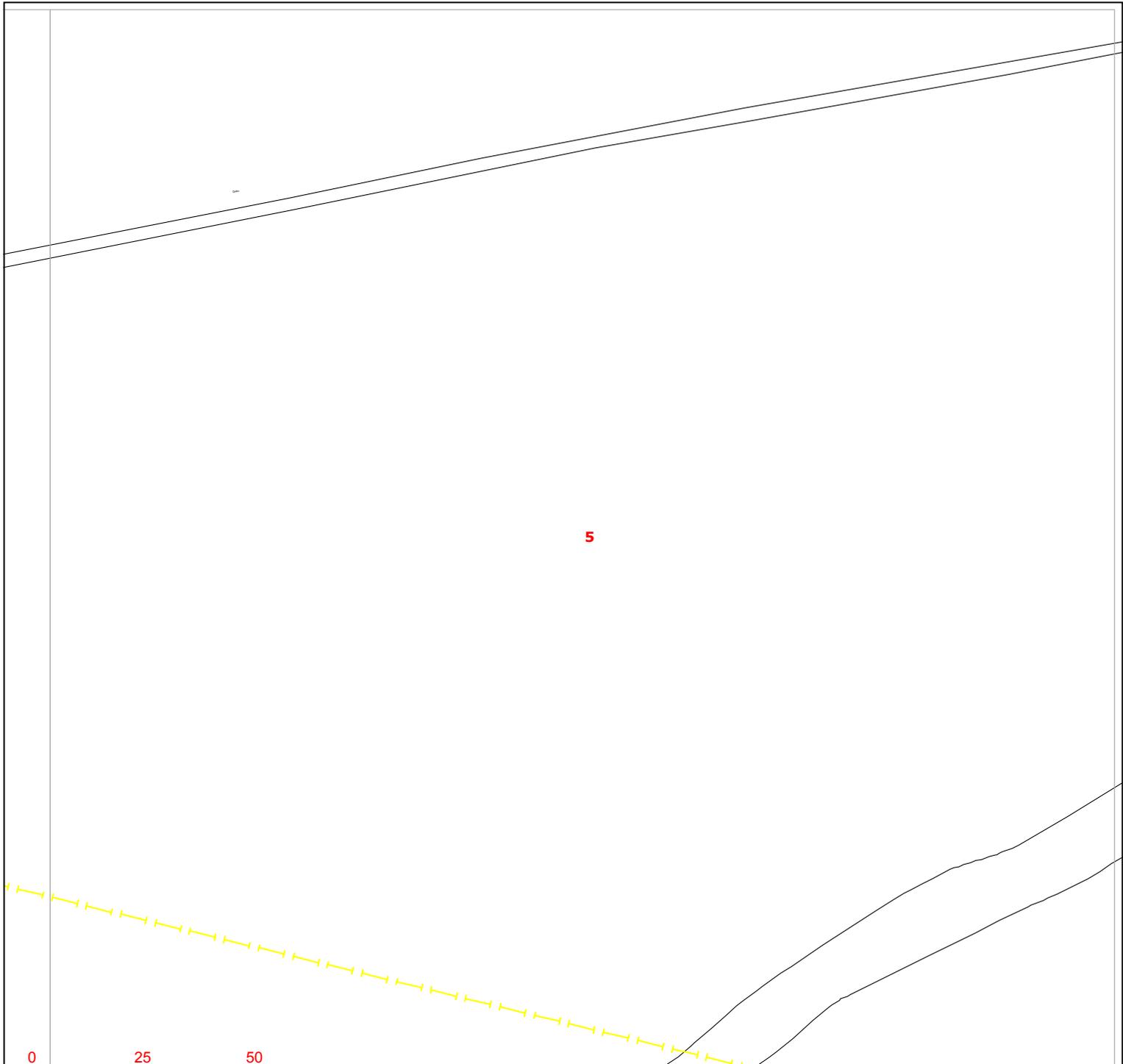
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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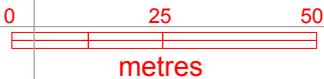
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<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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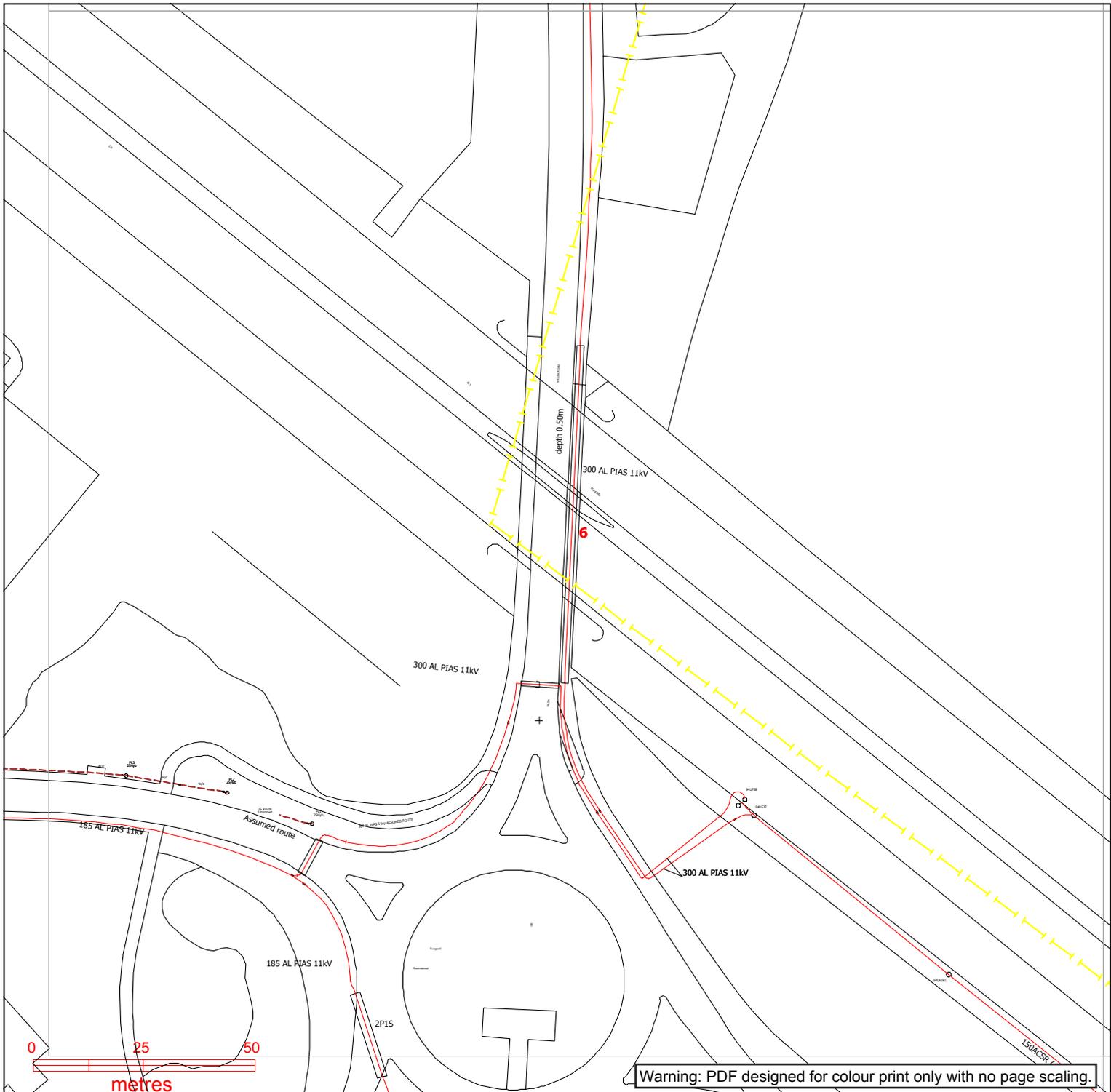
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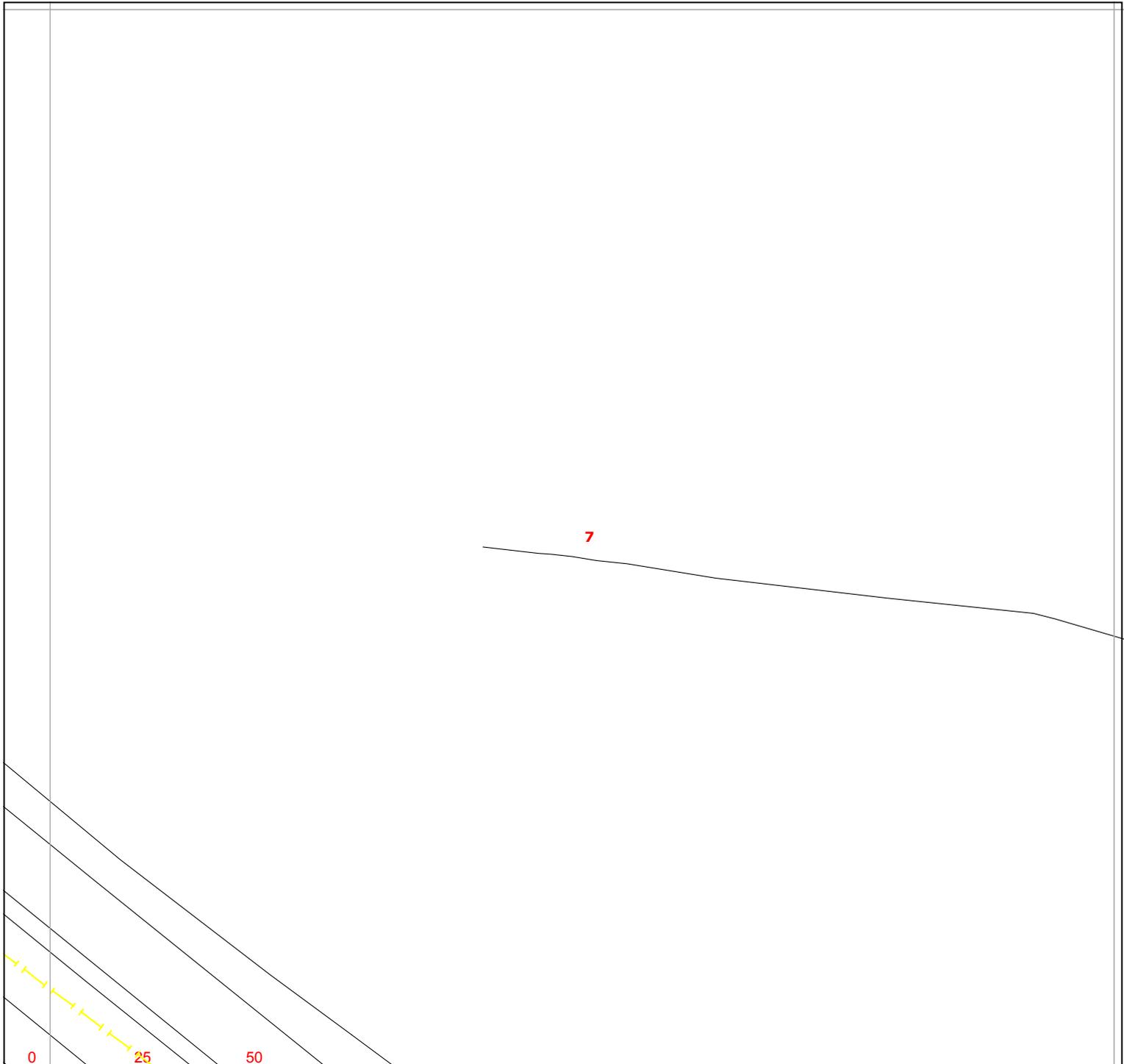
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	---	—S—S—	—P—P—
●	—	---	⊥ PME Earth	○ Pole Mounted Transformer
—	—	---	⊥ Underground Earth	□ Ground Mounted Transformer

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<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> -P-P- Pole Mounted Transformer Ground Mounted Transformer
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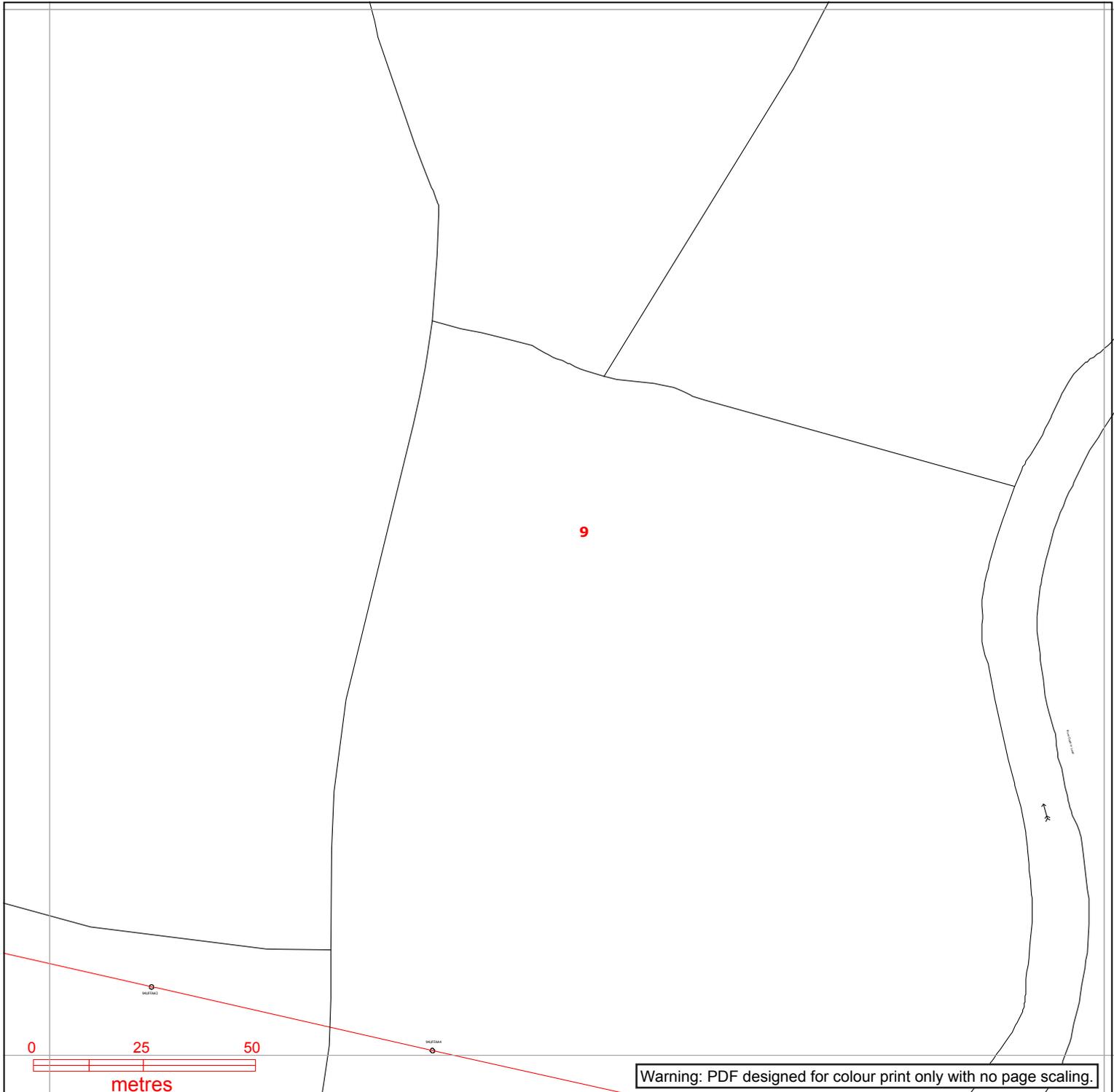
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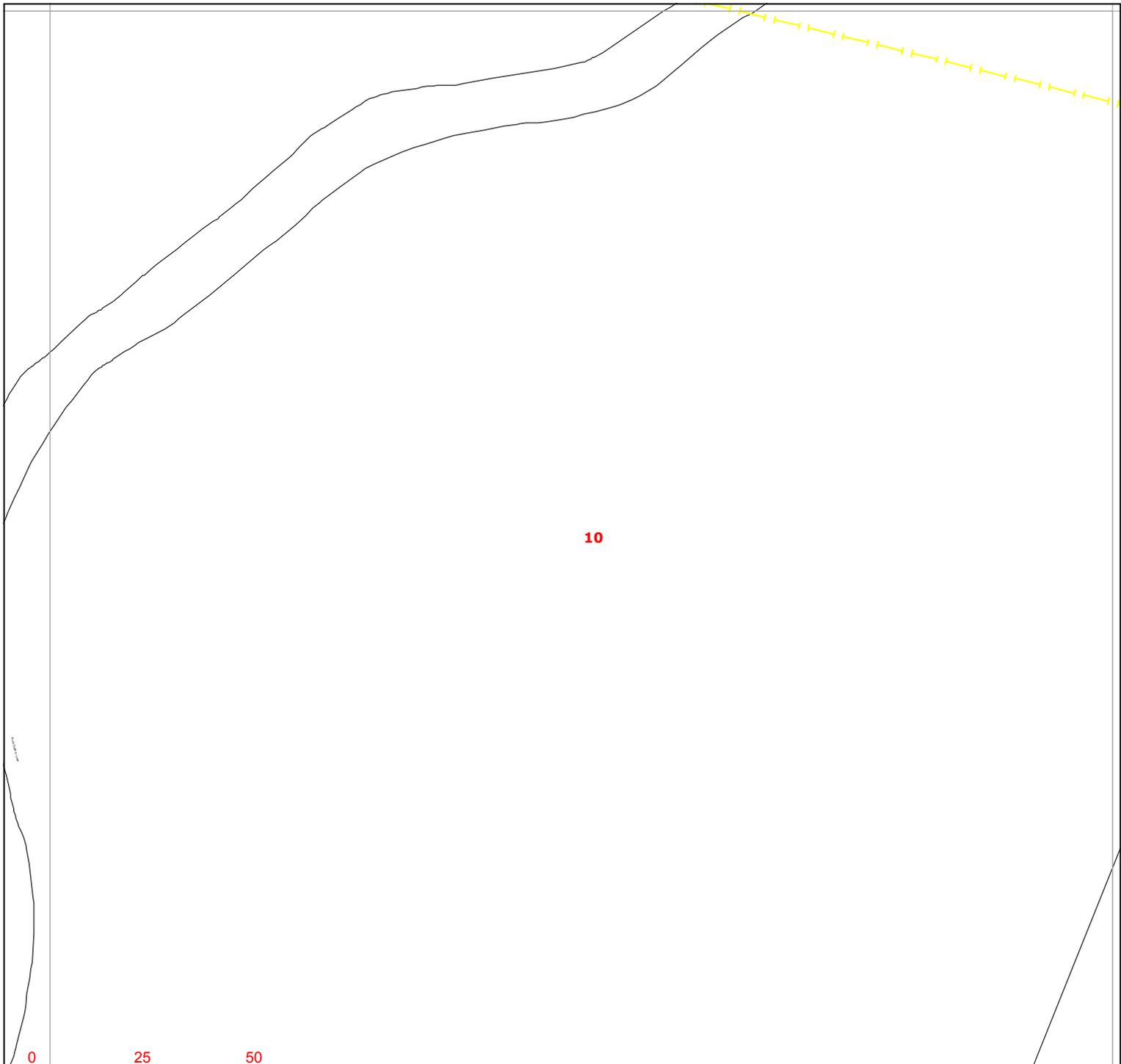
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> -P-P- ○ Pole Mounted Transformer □ Ground Mounted Transformer
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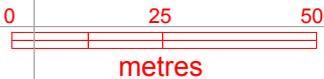
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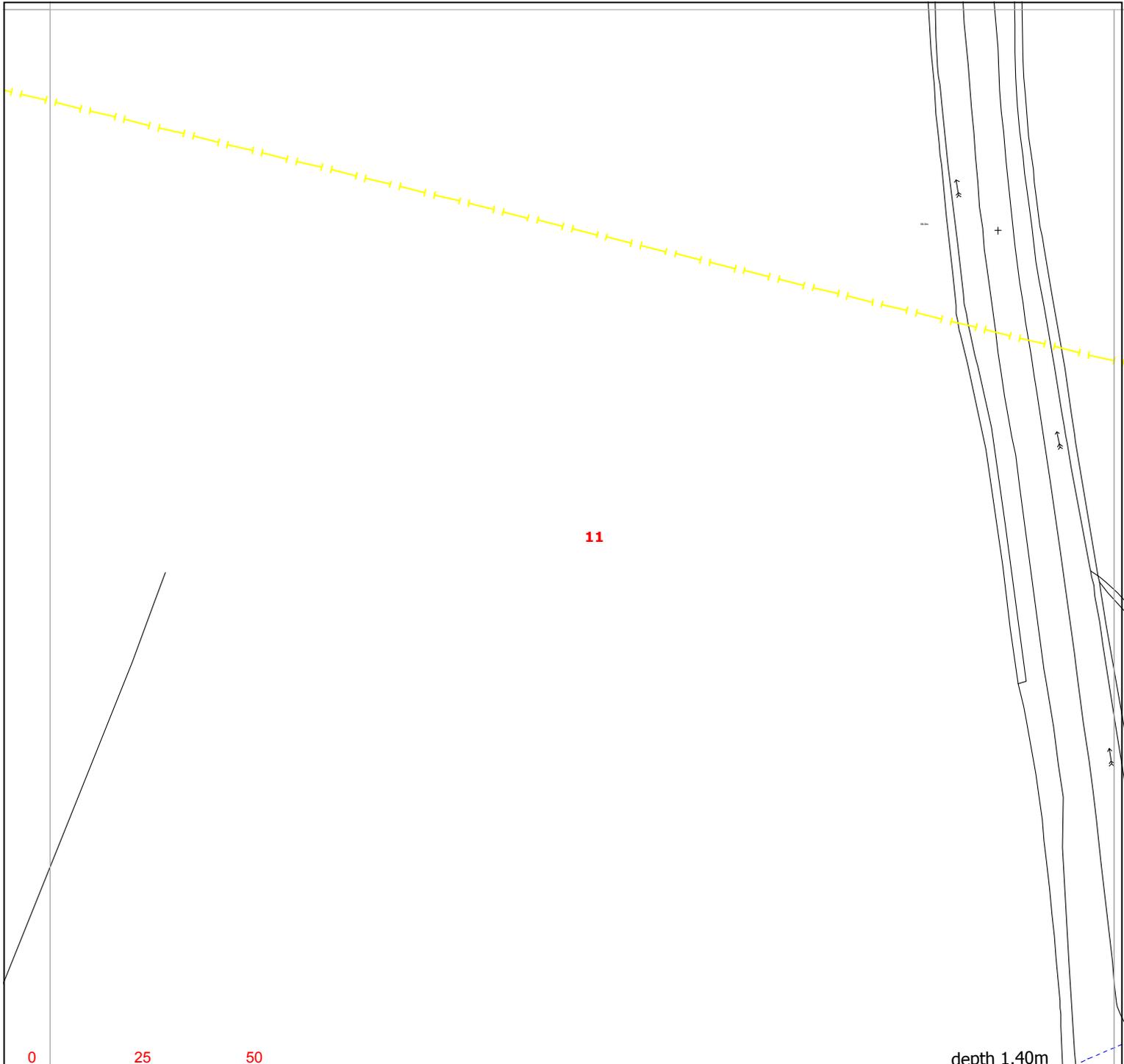
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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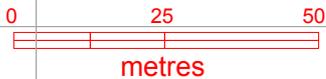
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11



depth 1.40m

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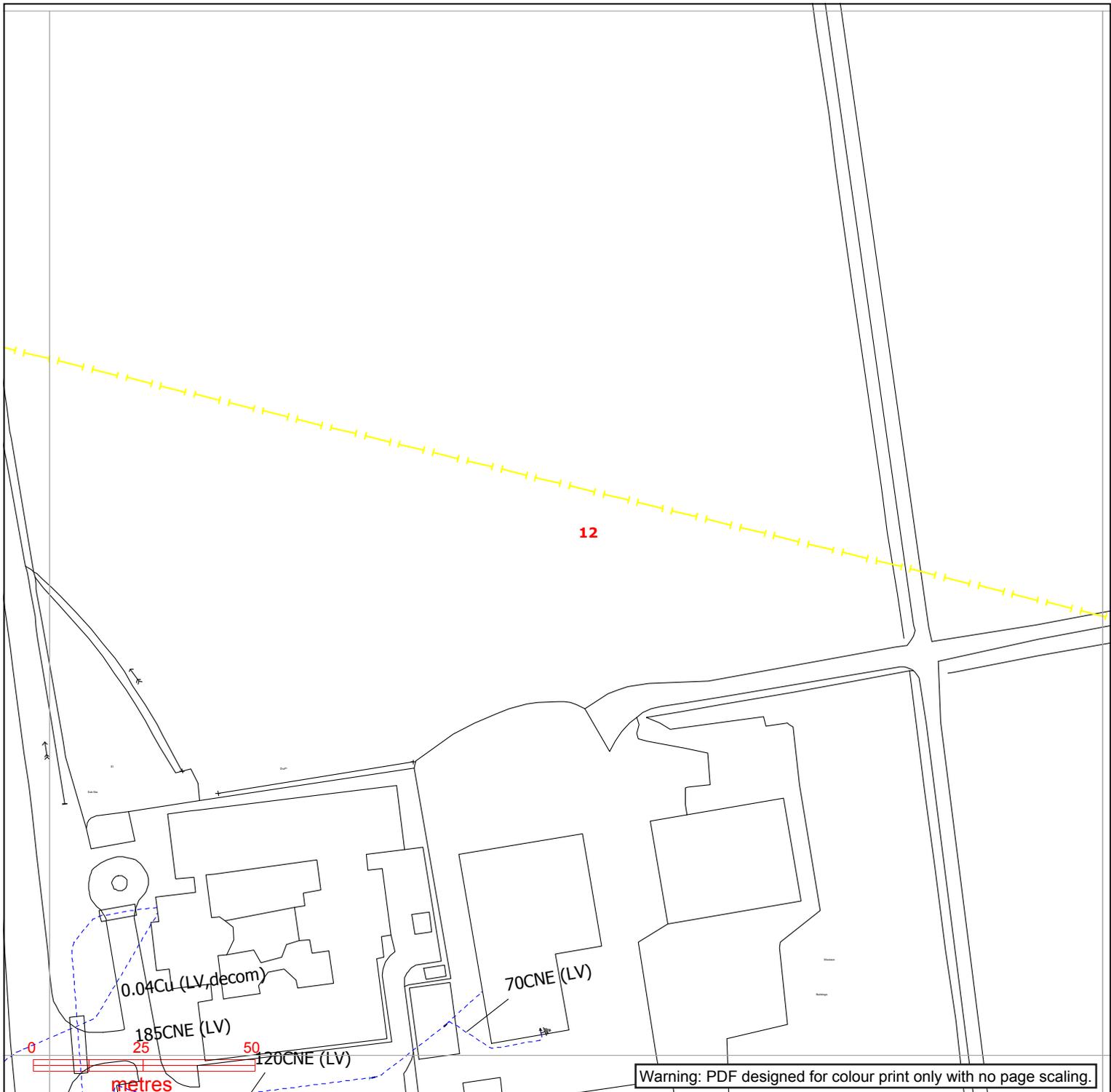
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> P—P— Pole Mounted Transformer Ground Mounted Transformer
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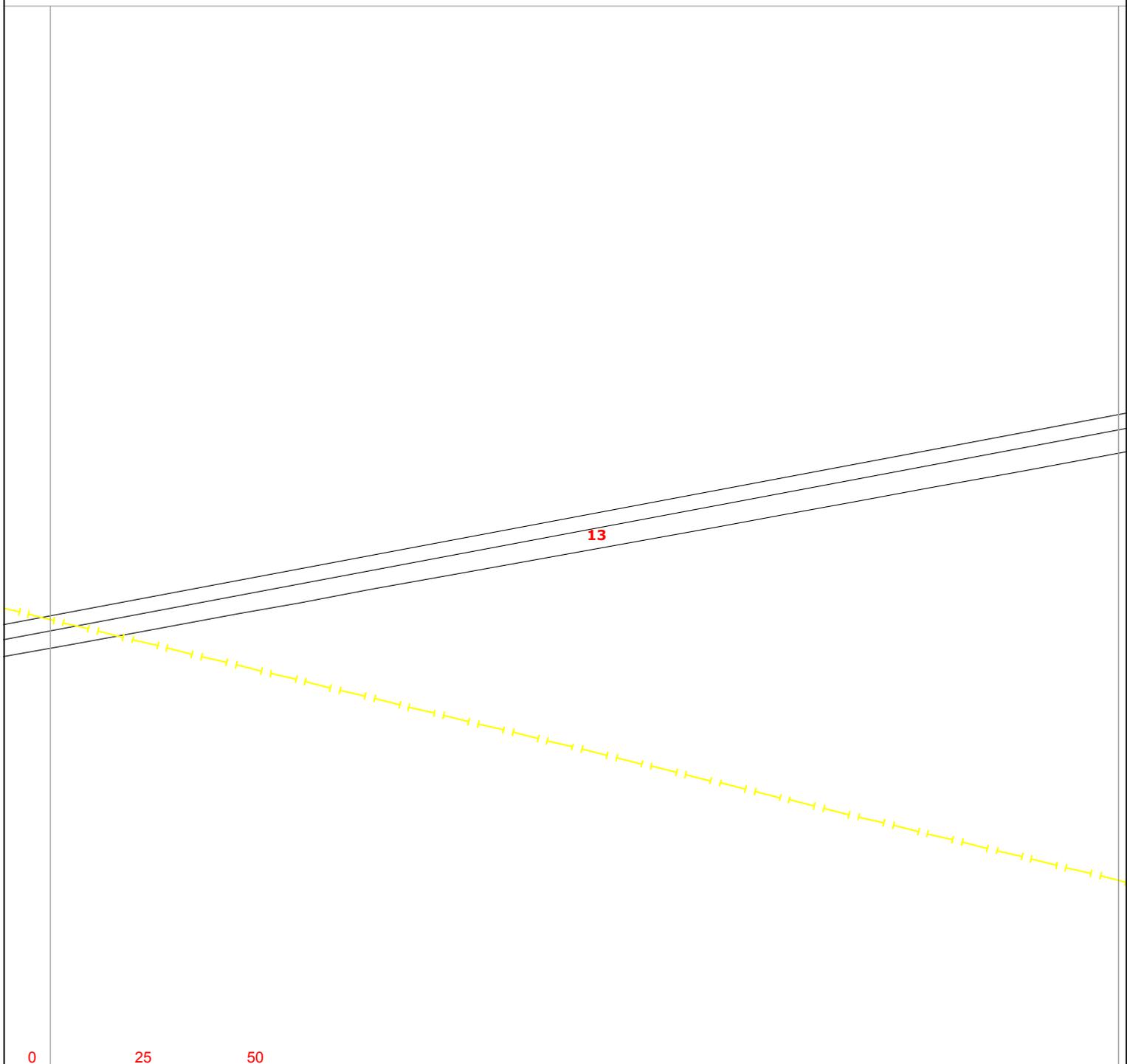
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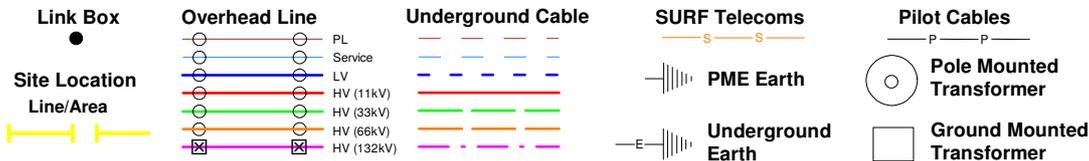
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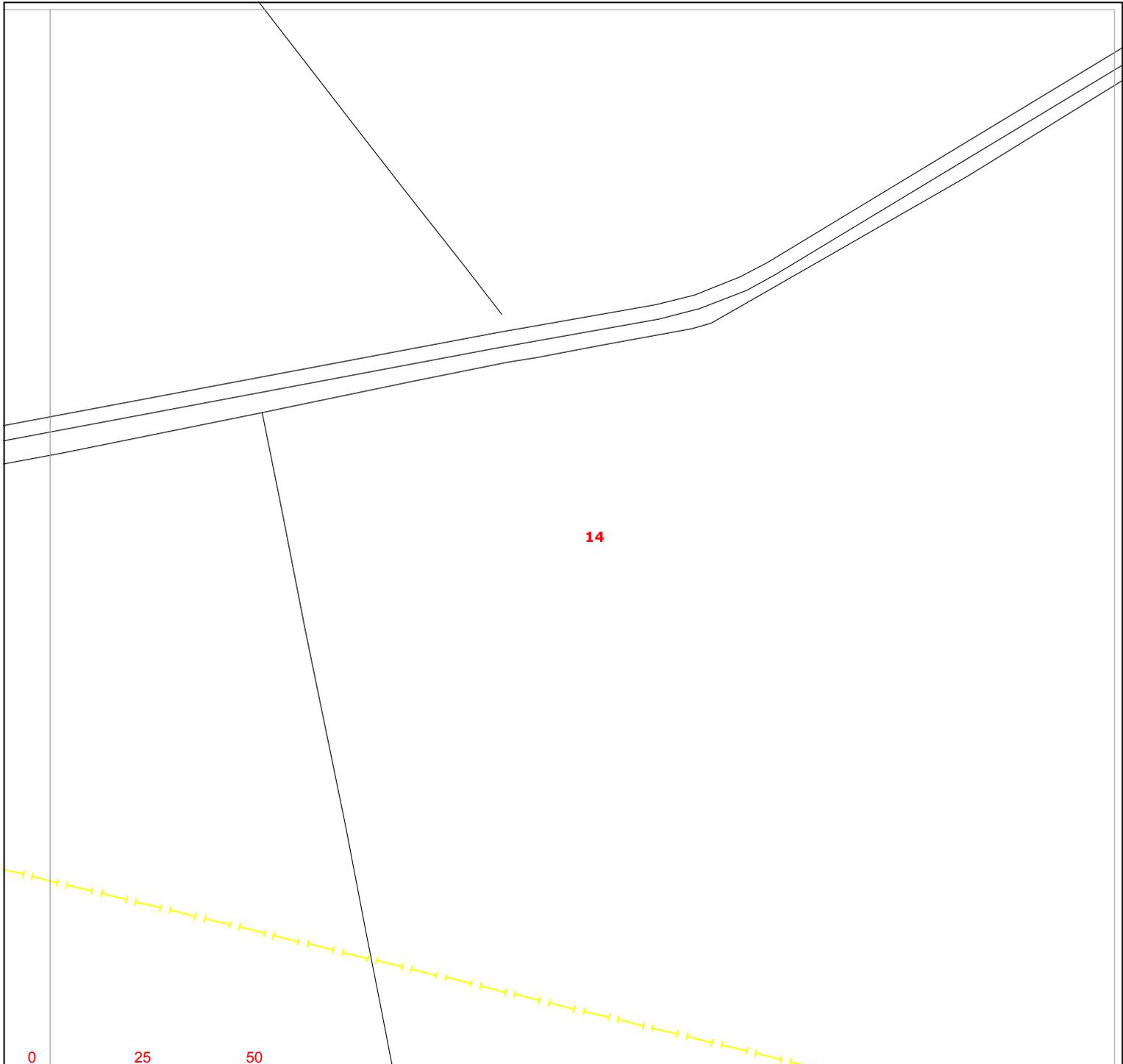


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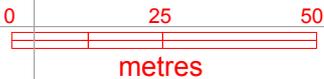
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<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth  Underground Earth	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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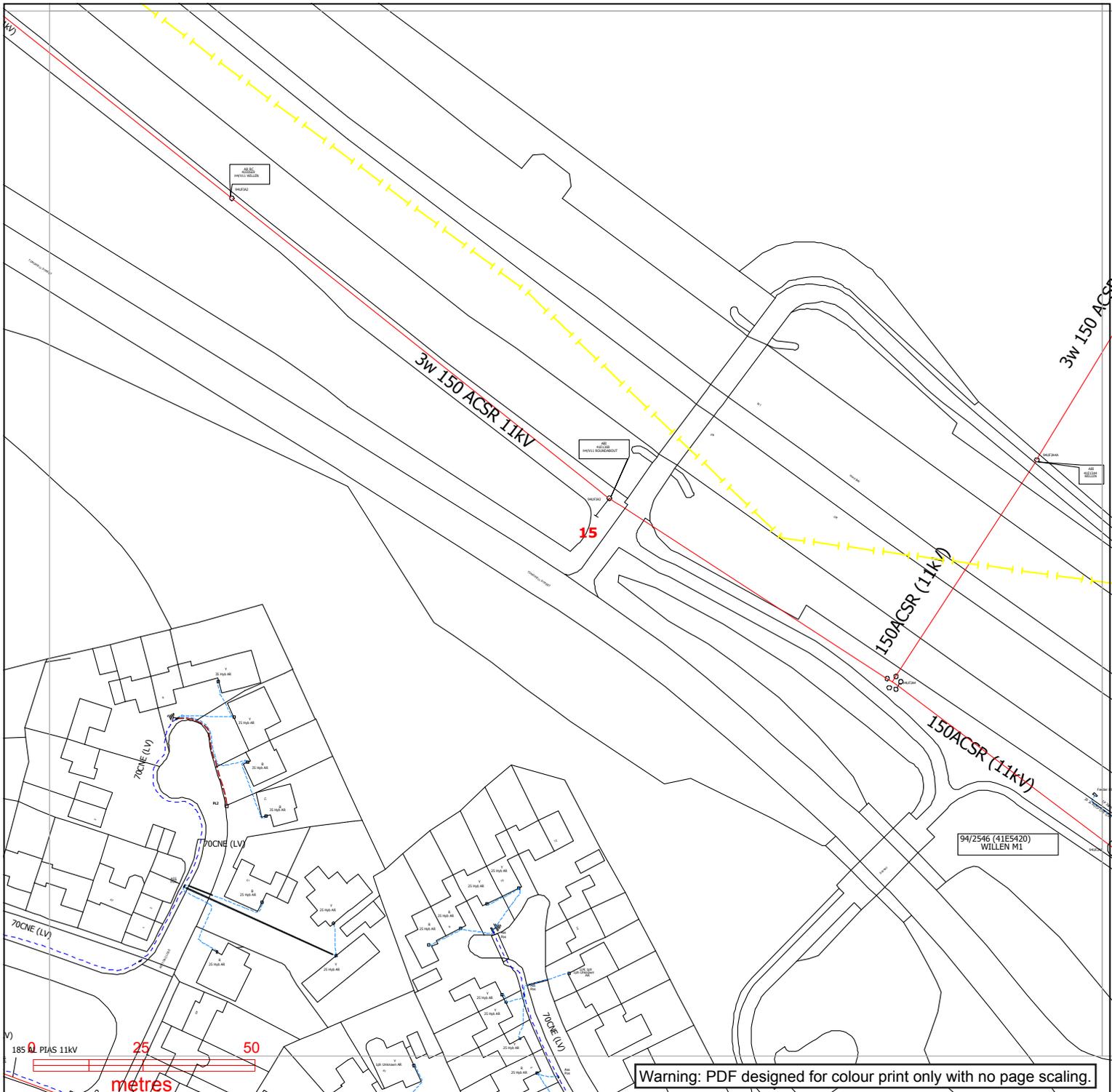
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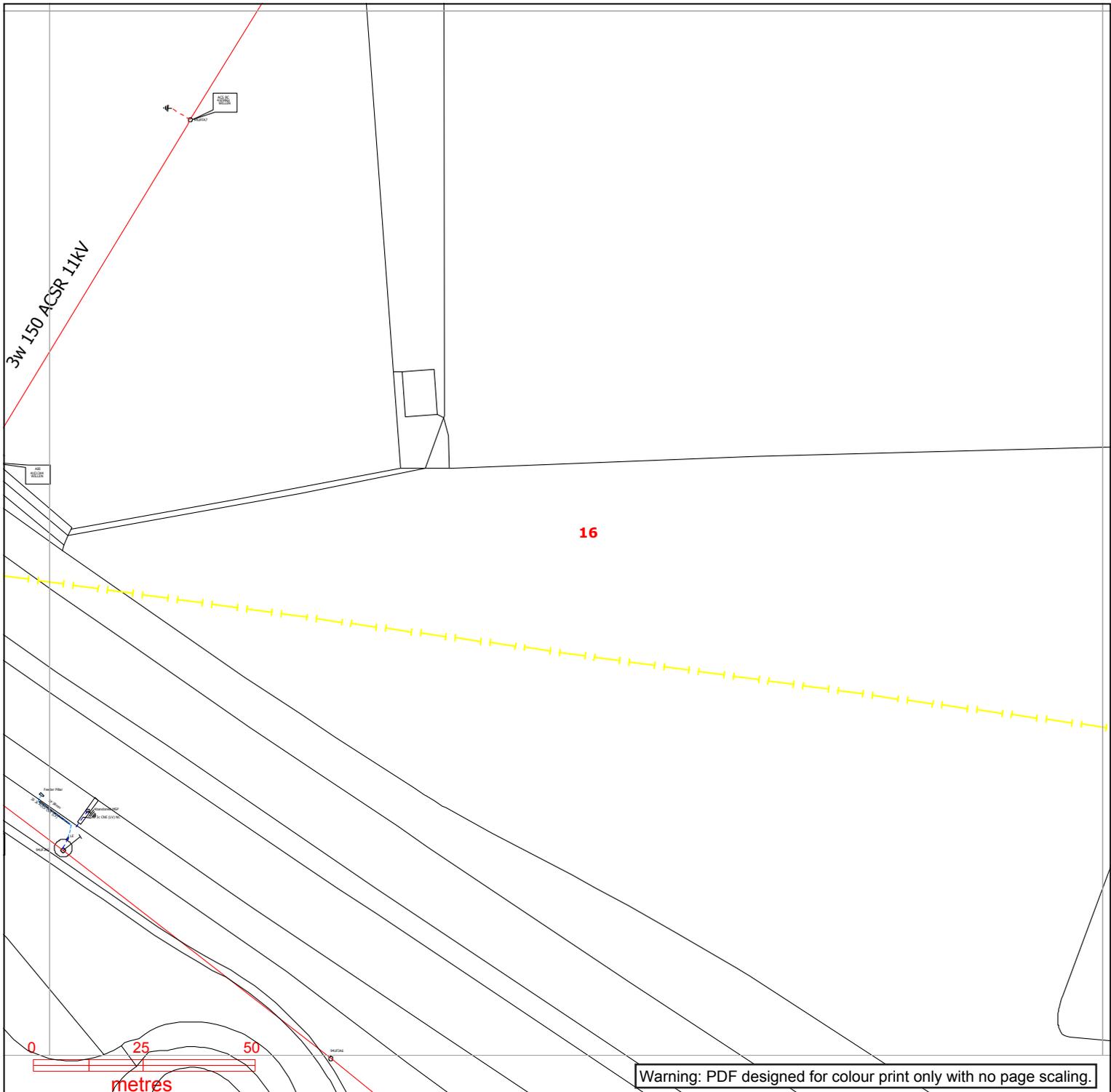
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV (11kV) ○ HV (33kV) ○ HV (66kV) ○ HV (132kV)	--- PL --- Service --- LV (11kV) --- HV (33kV) --- HV (66kV) --- HV (132kV)	—S—S— PME Earth —E—	—P—P— Pole Mounted Transformer □ Ground Mounted Transformer

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Date Requested: 21/10/2020  
 Job Reference: 20280238  
 Site Location: 489001 241699  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-3

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

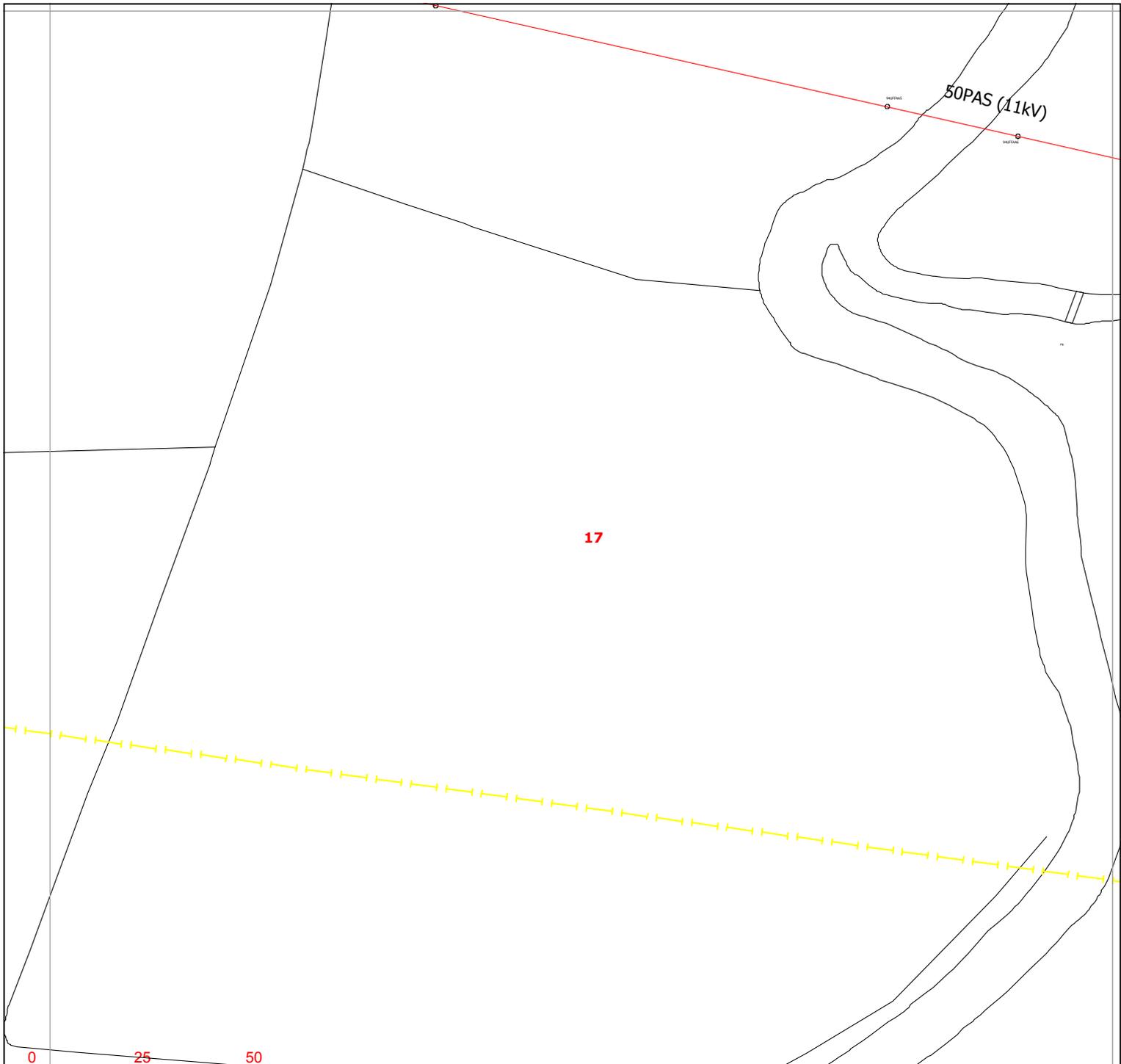
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> -S-S-  PME Earth -E-	<b>Pilot Cables</b> -P-P-  Pole Mounted Transformer Ground Mounted Transformer
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<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> —S—S—  PME Earth  Underground Earth	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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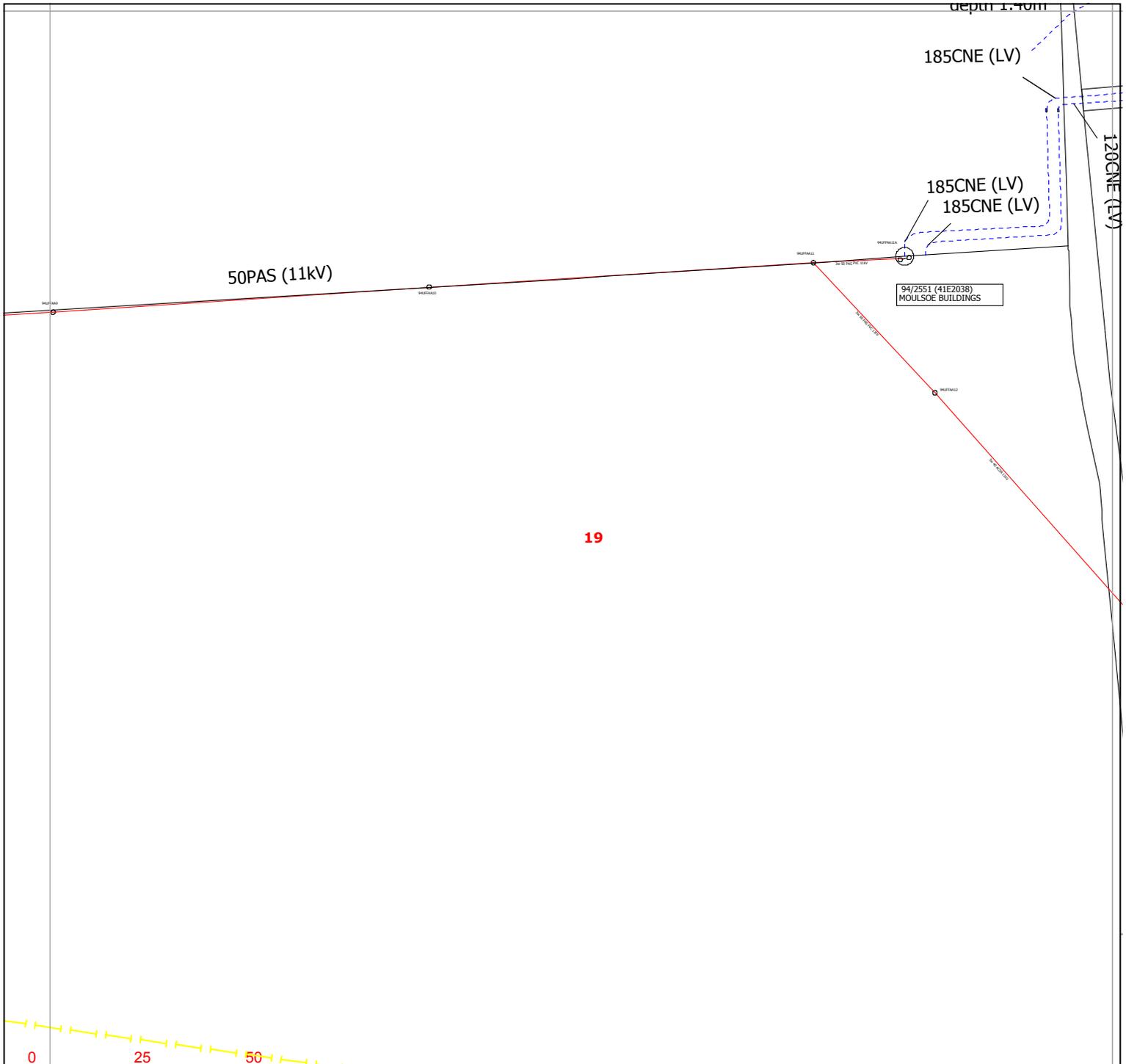
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> -P-P- Pole Mounted Transformer Ground Mounted Transformer
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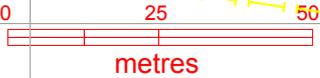
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19



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<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> - - - PL - - - Service - - - LV - - - HV (11kV) - - - HV (33kV) - - - HV (66kV) - - - HV (132kV)	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> -P-P- Pole Mounted Transformer Ground Mounted Transformer
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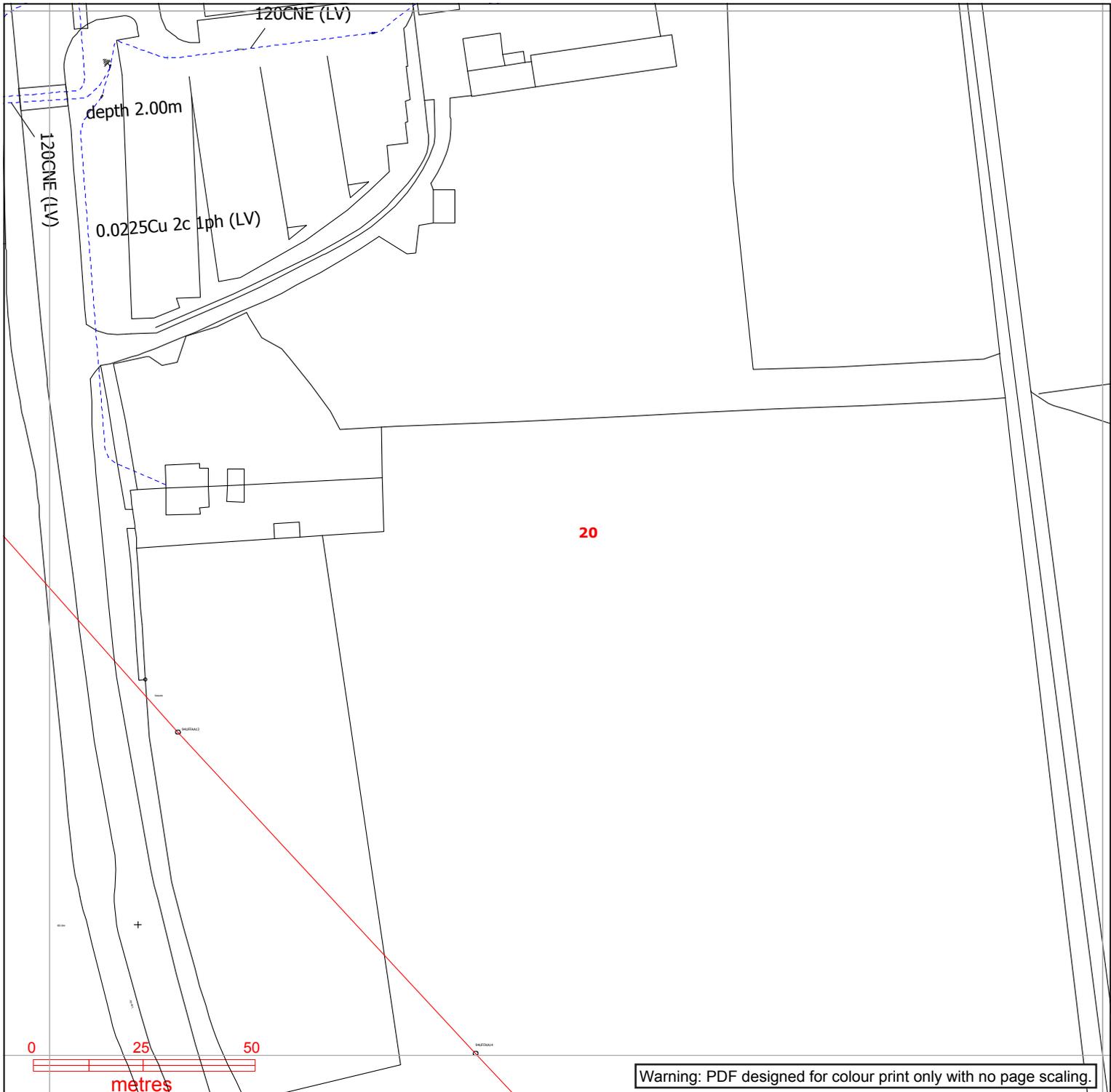
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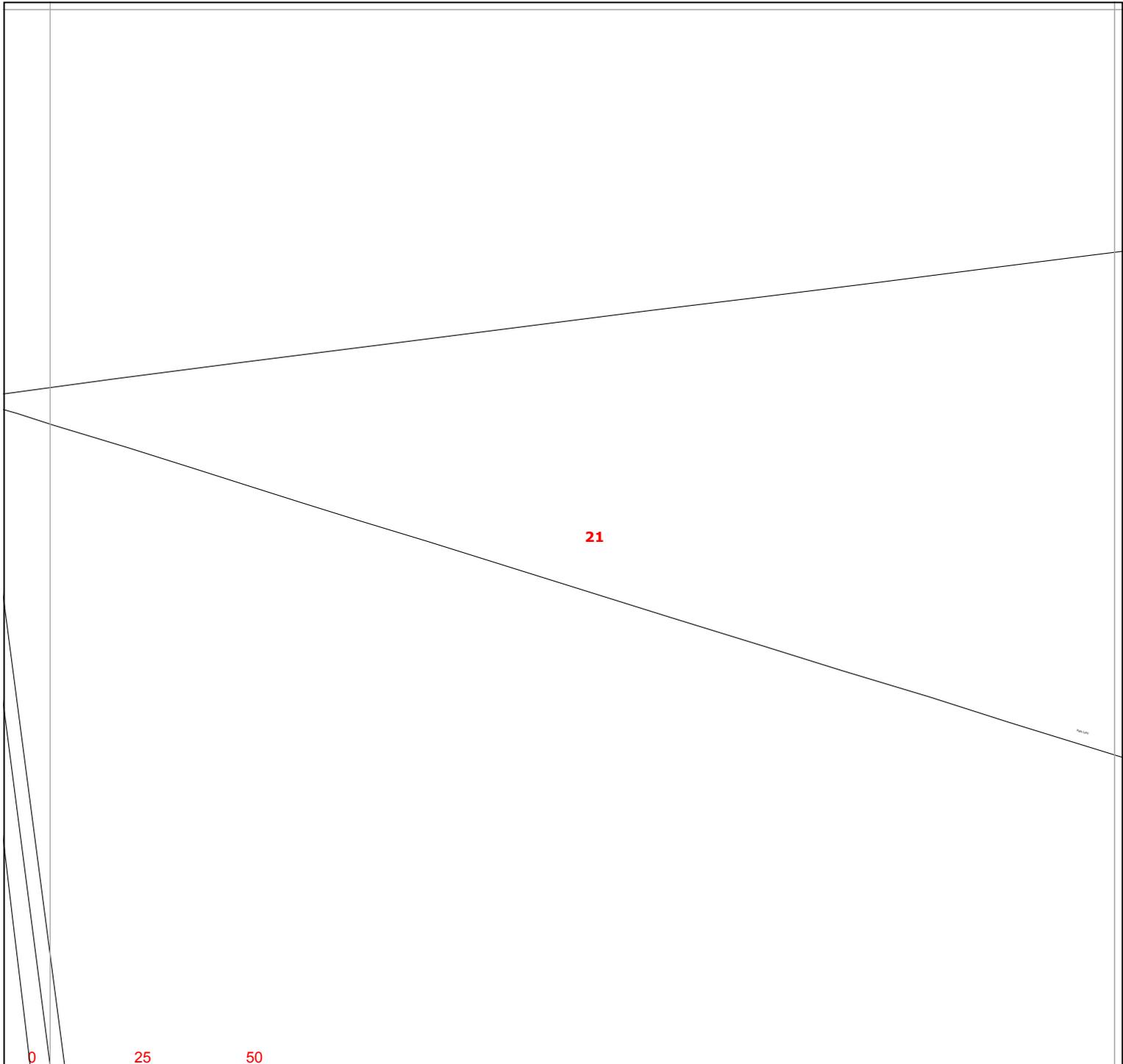
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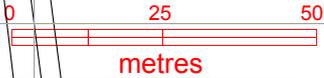
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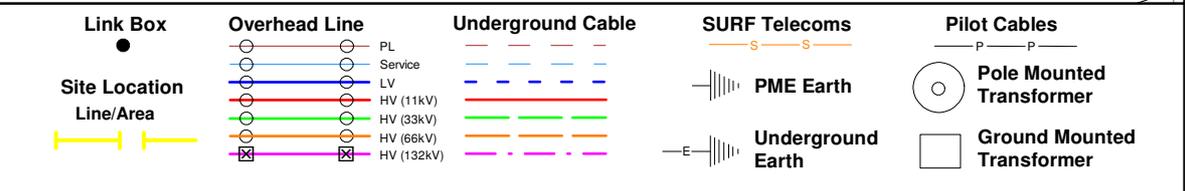
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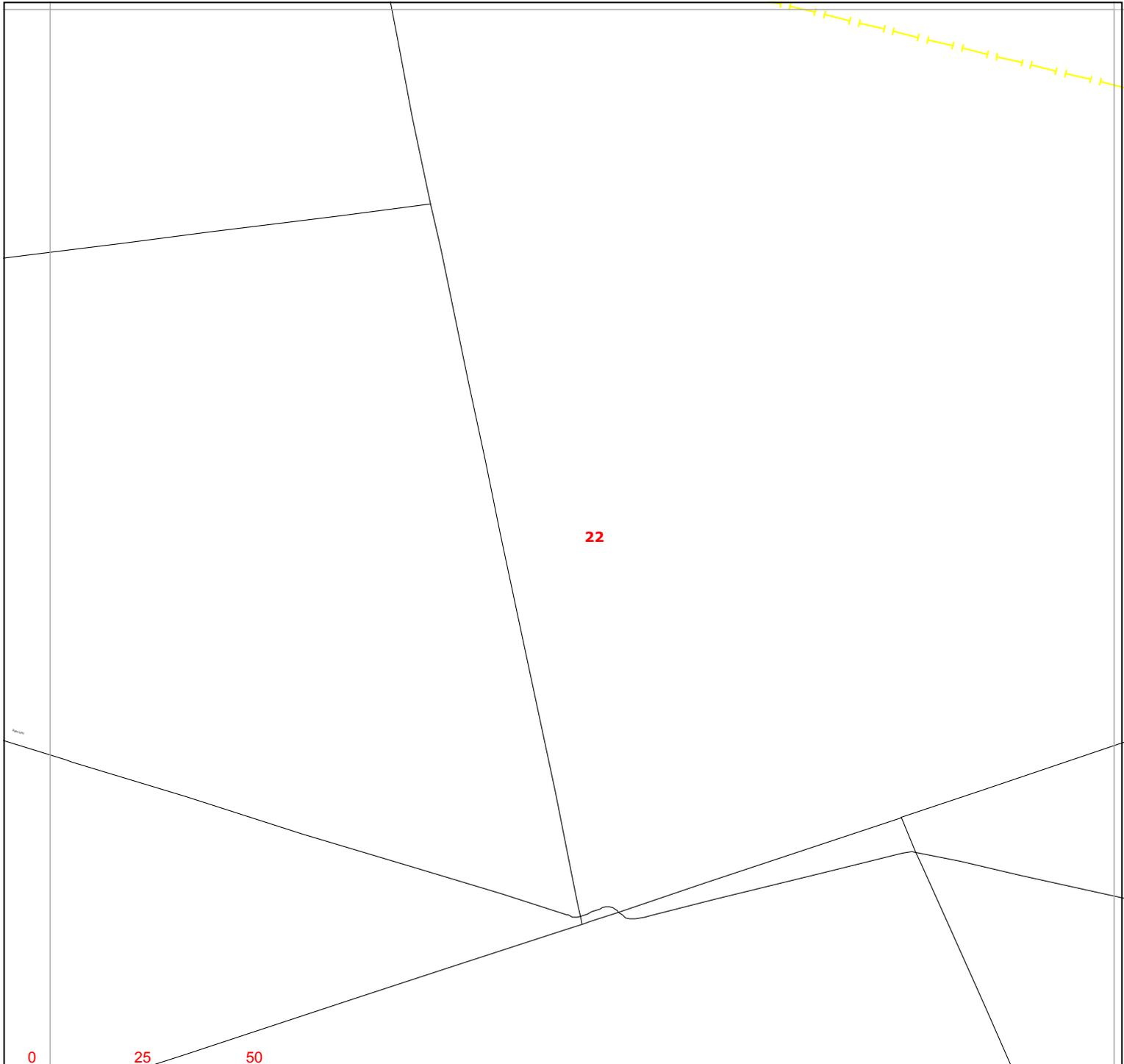


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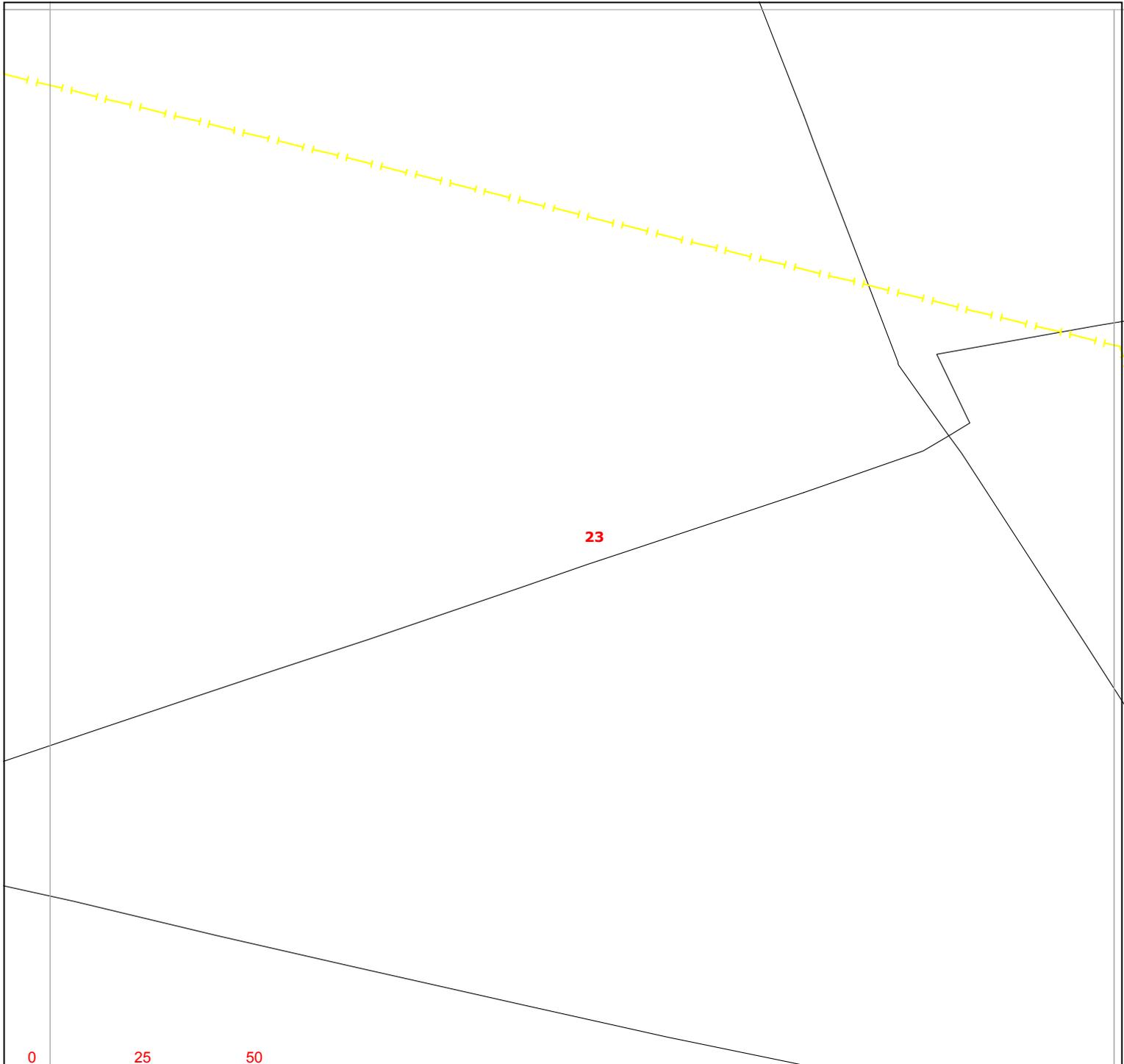
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> —S—S—  PME Earth  Underground Earth	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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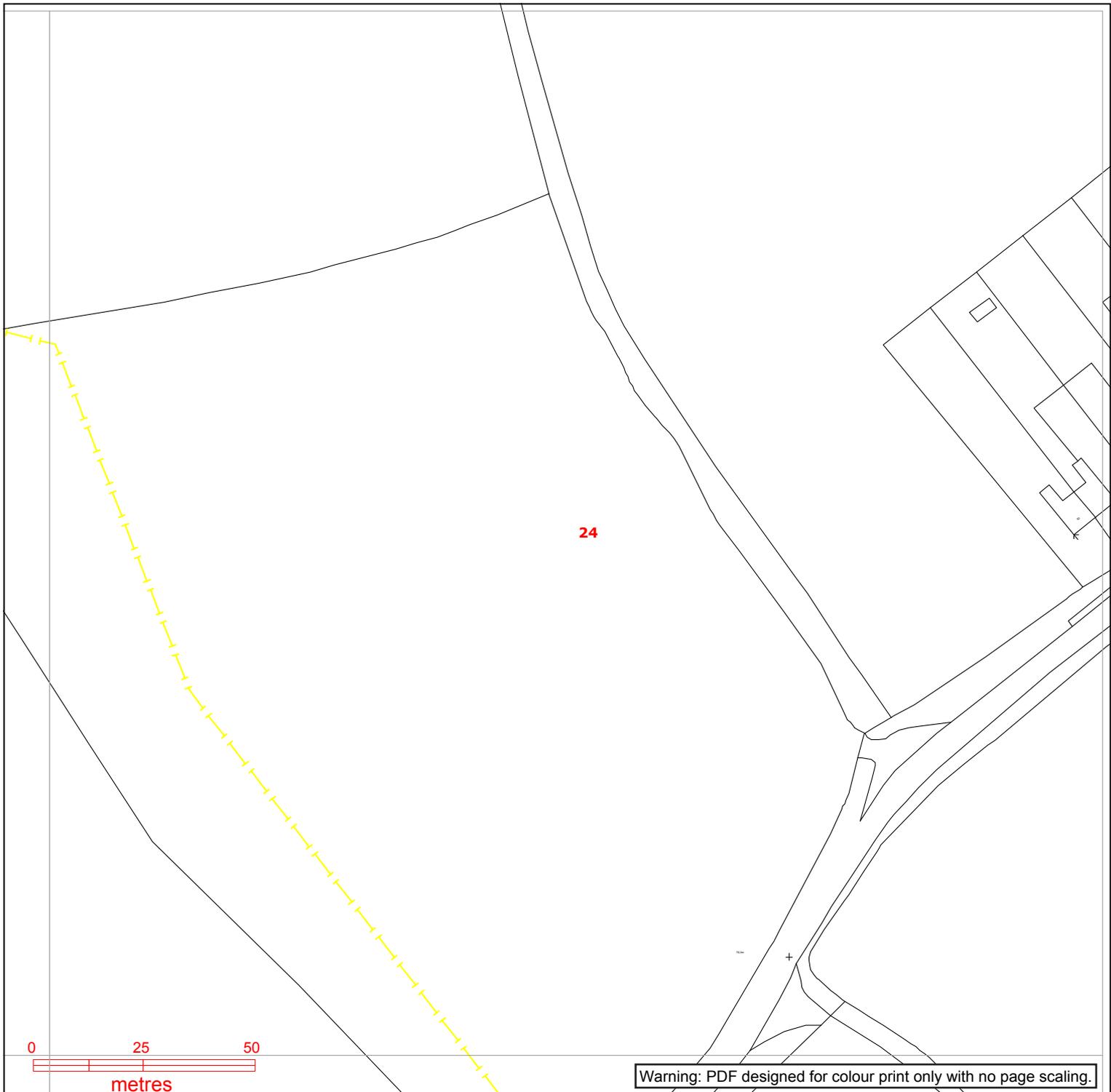
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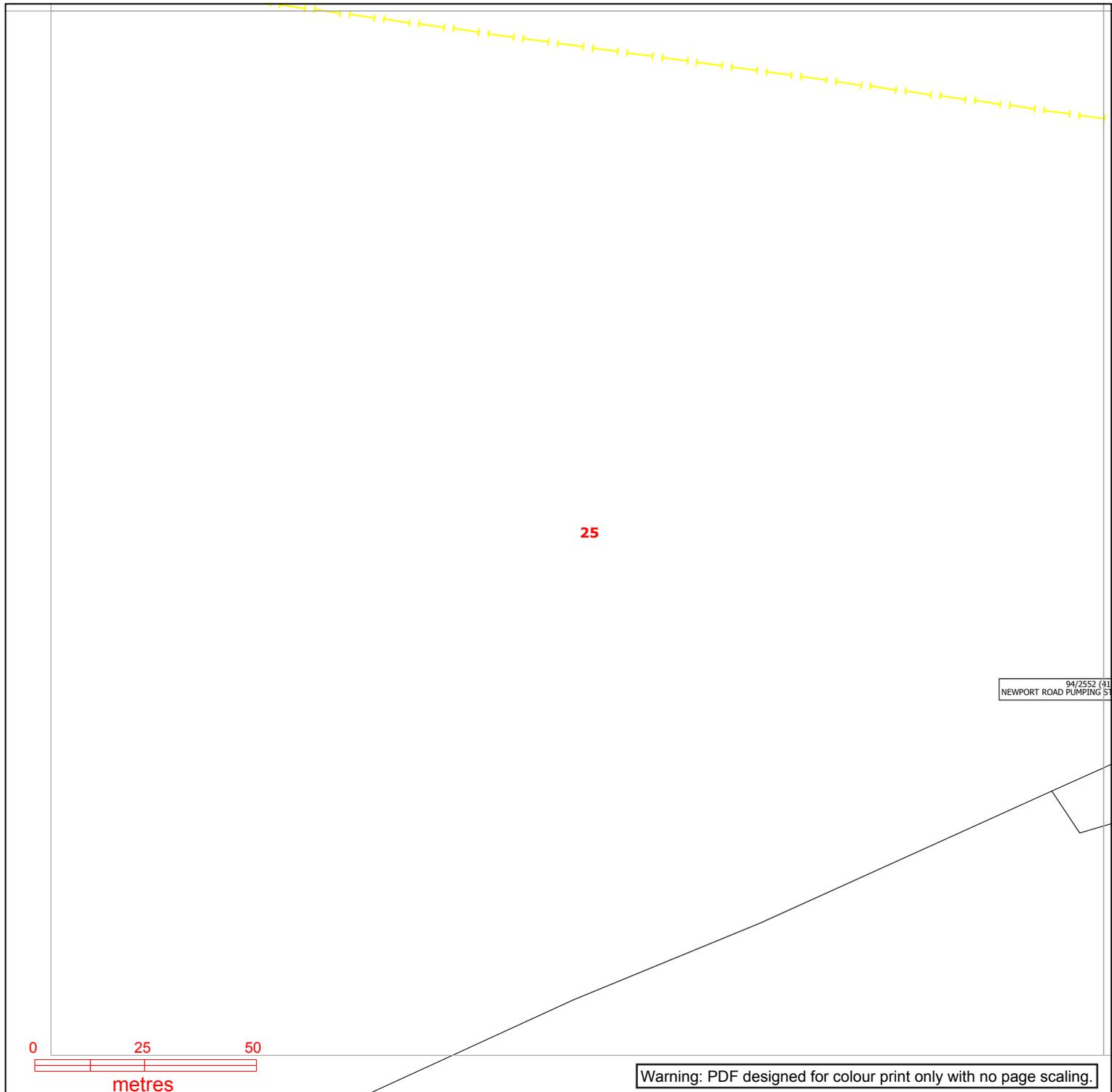
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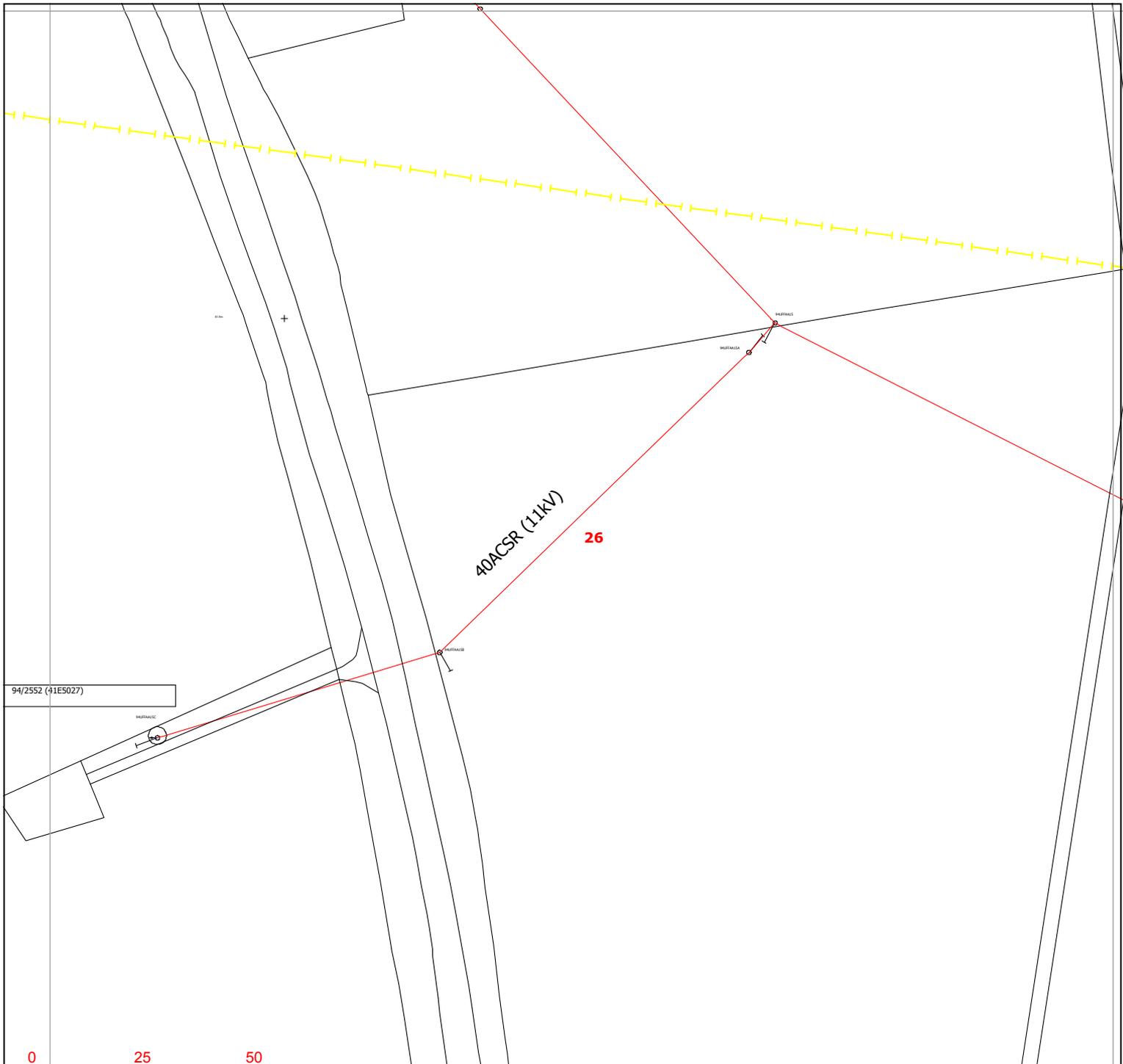
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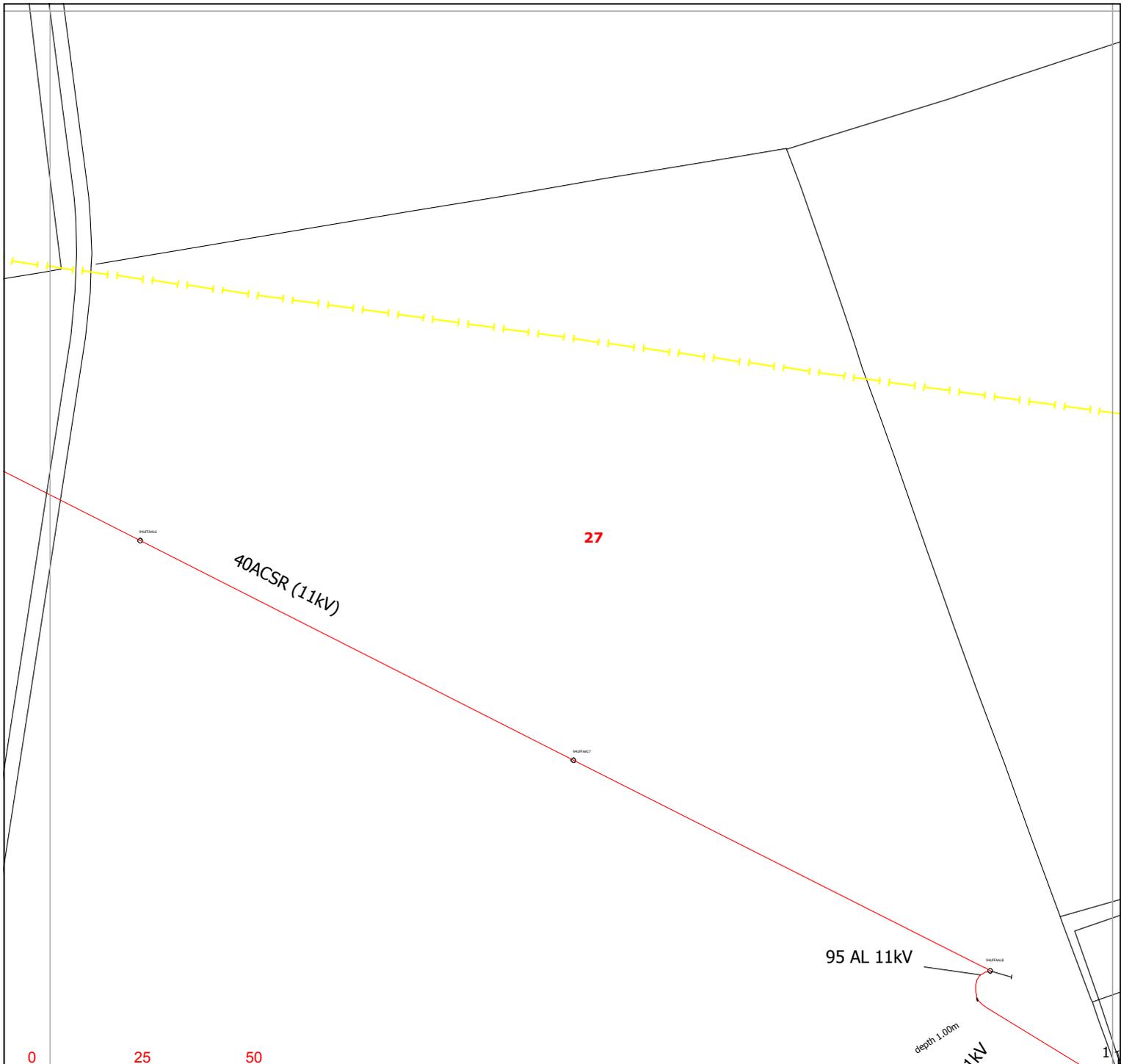
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**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA**  
**0800 6783 105**

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**Contact Us**  
**Mapping Enquiries:**  
 All areas 0121 623 9780  
**General Enquiries:**  
 All areas 0800 096 3080

Date Requested: 21/10/2020  
 Job Reference: 20280238  
 Site Location: 489001 241699  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-3

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

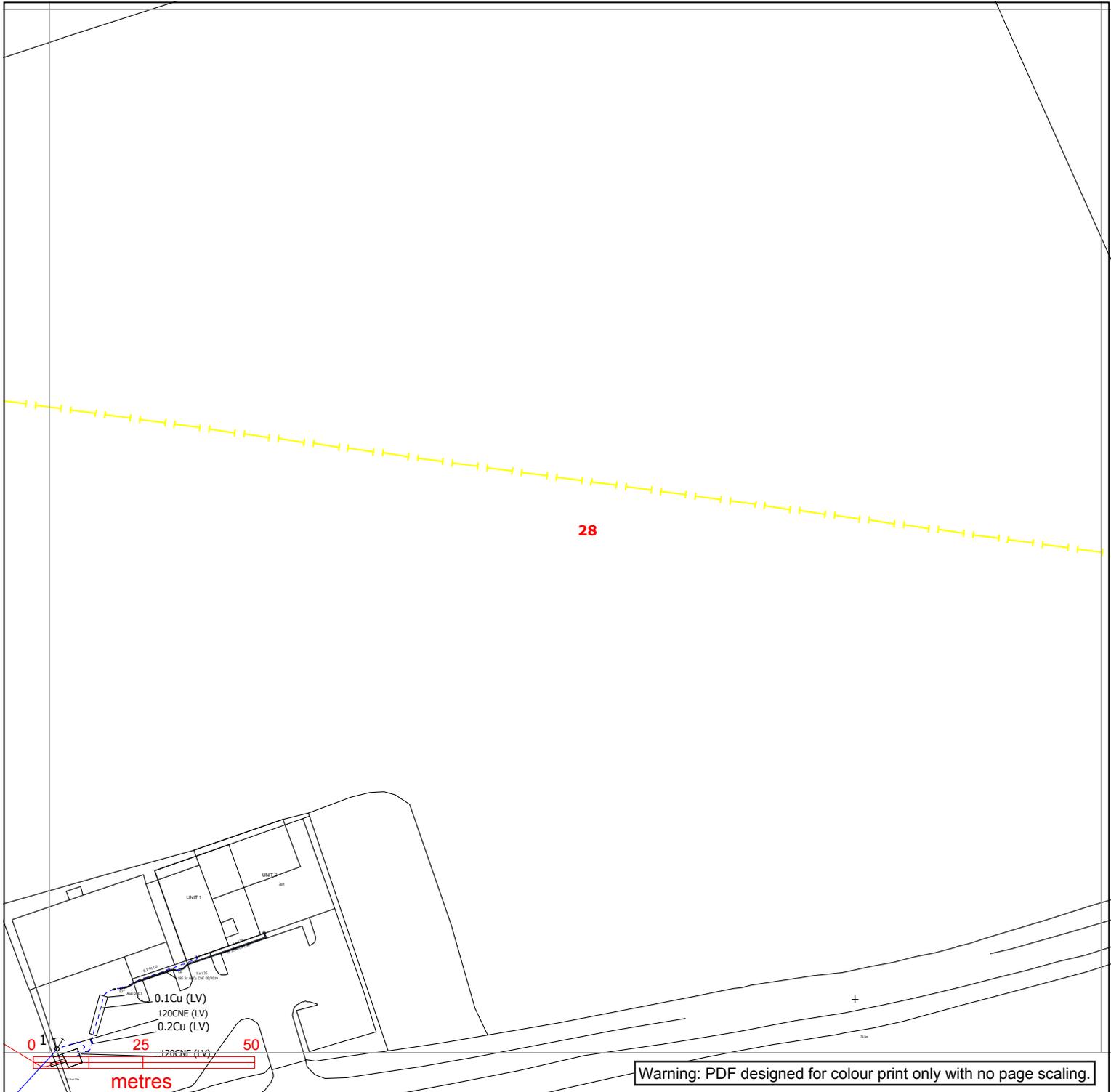
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV (11kV) ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	---	—S—S—	—P—P—
●	—	---	—E—	○ Pole Mounted Transformer
Site Location Line/Area	—	---	—E—	□ Ground Mounted Transformer
— — —	—	---	—E—	

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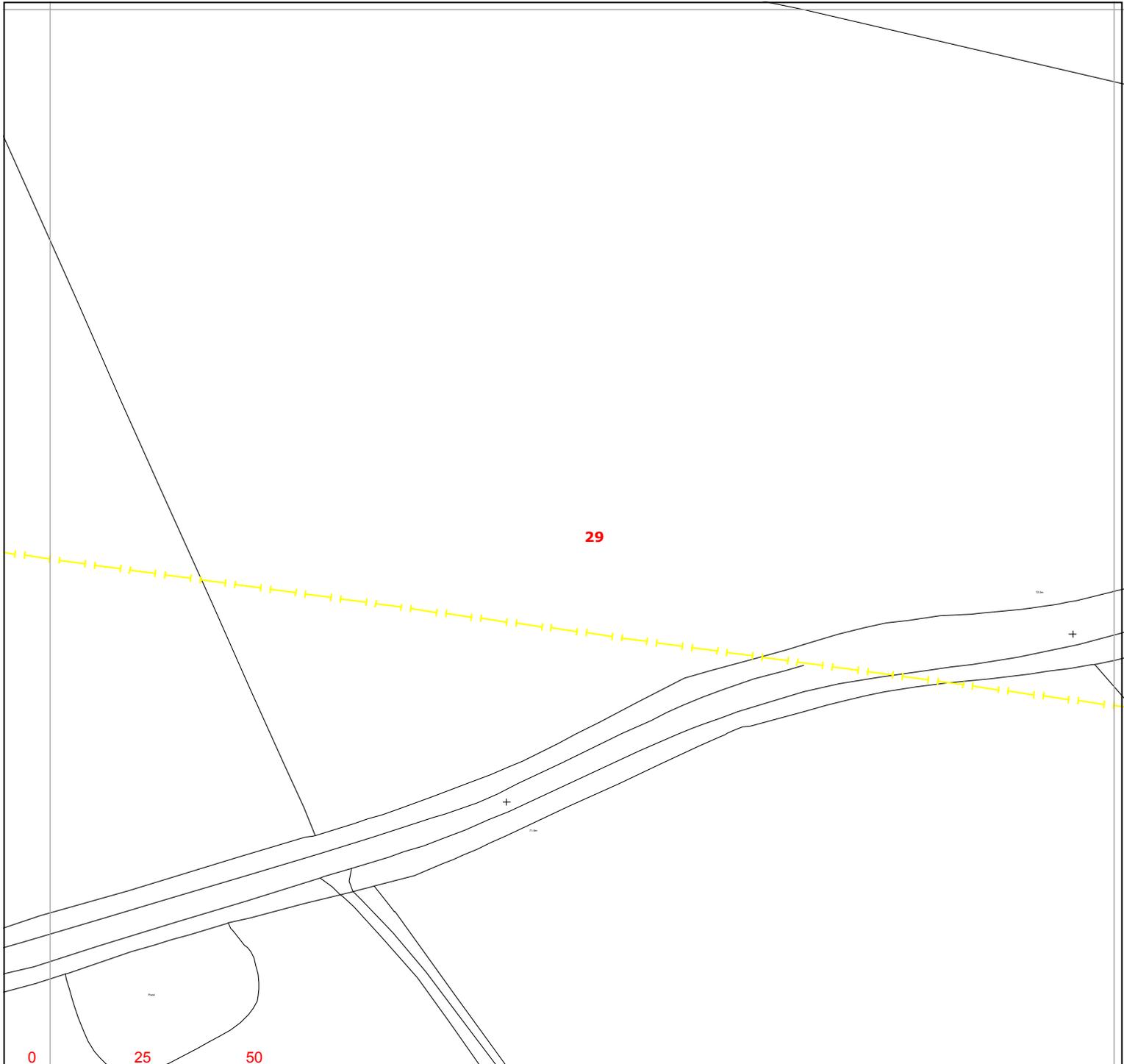
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	---	—S—S—	—P—P—
●	—	---	⊥ PME Earth	○ Pole Mounted Transformer
Site Location Line/Area	—	---	⊥ Underground Earth	□ Ground Mounted Transformer

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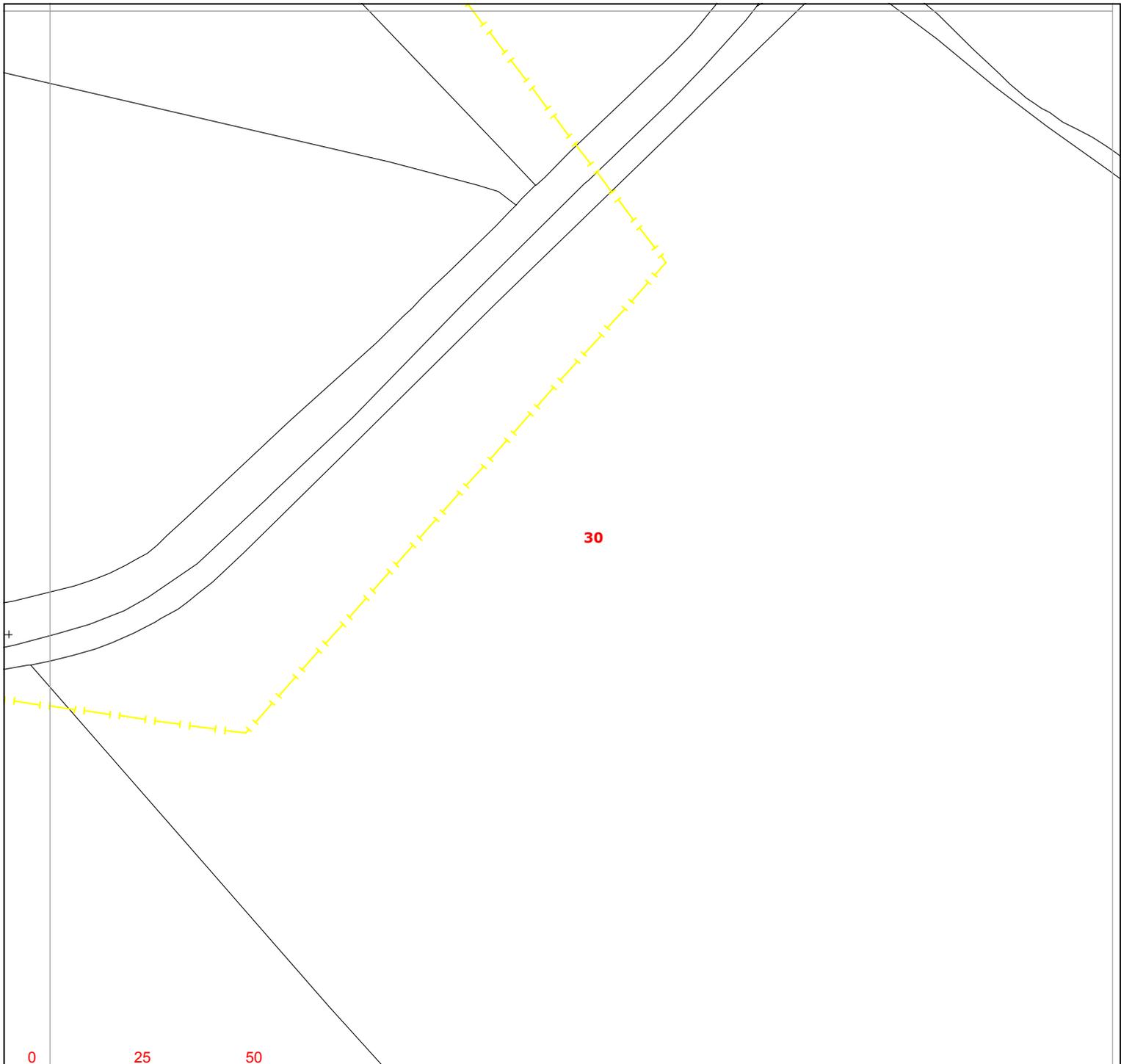
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> P-P- Pole Mounted Transformer Ground Mounted Transformer
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Our Ref: 20280294      Your Ref: 89518/BRK-4

Wednesday, 21 October 2020

Chrissy Elliott  
The Hub 500 Park Avenue, Aztec West, Patchway  
Almondsbury  
Bristol  
BS32 4RZ

**Western Power Distribution,**  
Mapping Centre  
Toll End Road  
Tipton  
West Midlands  
United Kingdom  
DY4 0HH  
www.westernpower.co.uk

Dear Chrissy Elliott

Thank you for your enquiry dated Wednesday, 21 October 2020

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

Map Response  
T 0121 623 9780  
WPDMapResponse  
@westernpower.co.uk

**LinesearchbeforeUdig**  
Help Desk 0845 437 7365

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

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

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

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

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

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

Western Power Distribution PLC  
South West - 02366894  
South Wales - 02366985  
East Midlands - 02366923  
West Midlands - 03600574

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

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

Registered in  
England and Wales

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

Registered Office:  
Avonbank  
Feeder Road  
Bristol  
BS2 0TB

Yours sincerely  
WPD Map Response Team

## Contact Us

### Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

### Mapping Enquiries

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

Telephone           0121 623 9780  
Email                WPDMapResponse@westernpower.co.uk

### General Enquiries

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

All areas            0800 096 3080

### LinesearchbeforeUdig

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

Telephone           0845 437 7365  
Email                enquiries@linesearchbeforeudig.co.uk  
Website             www.linesearchbeforeudig.co.uk

## Steps to help keep you safe

- **If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.**

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

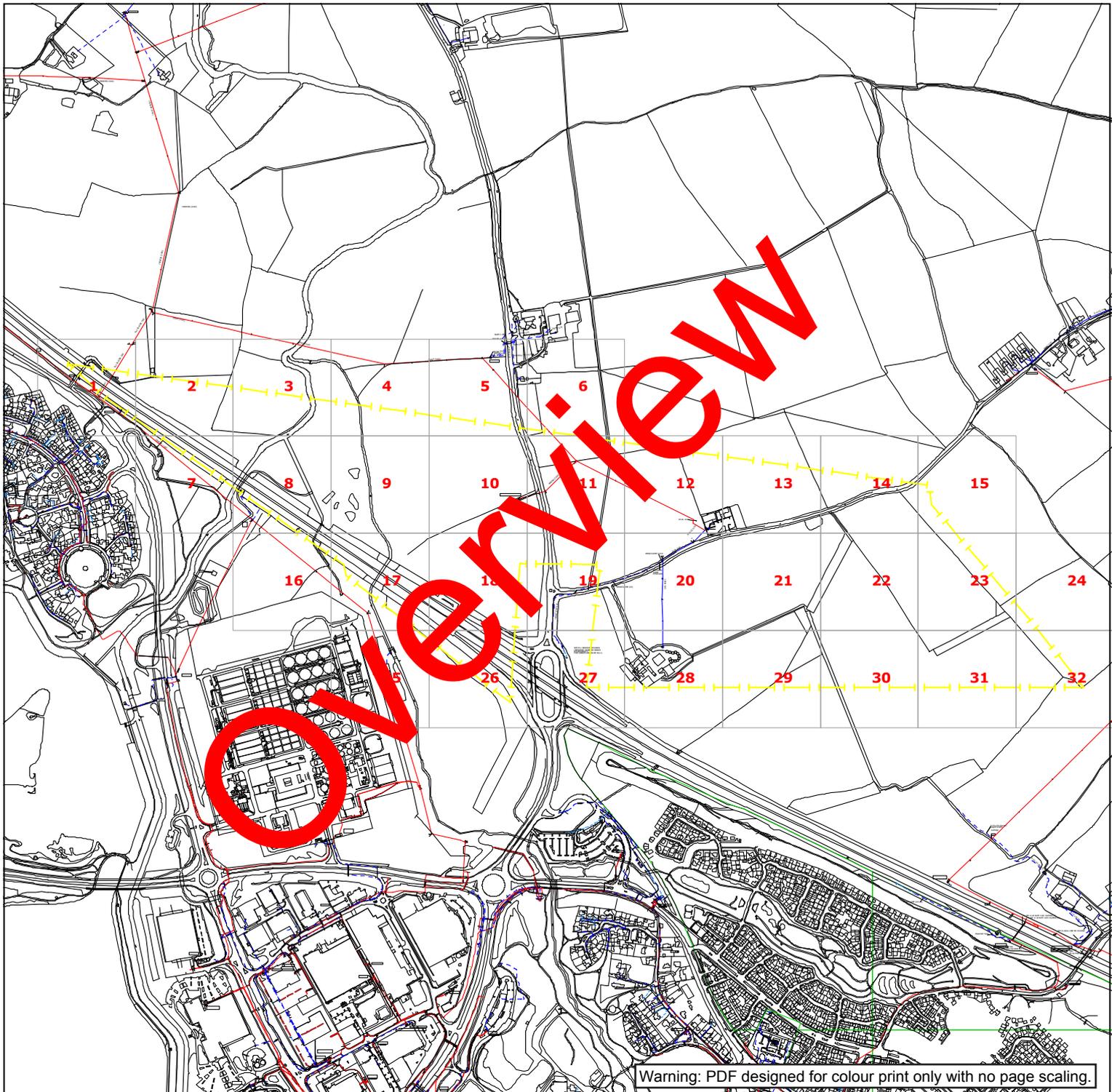
<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete **MUST** be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

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

### **Safety Documents:**

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>



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**Contact Us**

**Mapping Enquiries:**

All areas 0121 623 9780

**General Enquiries:**

All areas 0800 096 3080

Date Requested: 21/10/2020

Job Reference: 20280294

Site Location: 489280 241214

Requested by:

Miss Chrissy Elliott

Your Scheme/Reference:

89518/BRK-4

**Link Box**



**Site Location  
Line/Area**



**Overhead Line**

- PL
- Service
- LV
- HV (11kV)
- HV (33kV)
- HV (66kV)
- ⊠ HV (132kV)

**Underground Cable**

- PL
- Service
- LV
- HV (11kV)
- HV (33kV)
- HV (66kV)
- HV (132kV)

**SURF Telecoms**

- S — S —
- ⊠ PME Earth
- ⊠ Underground Earth

**Pilot Cables**

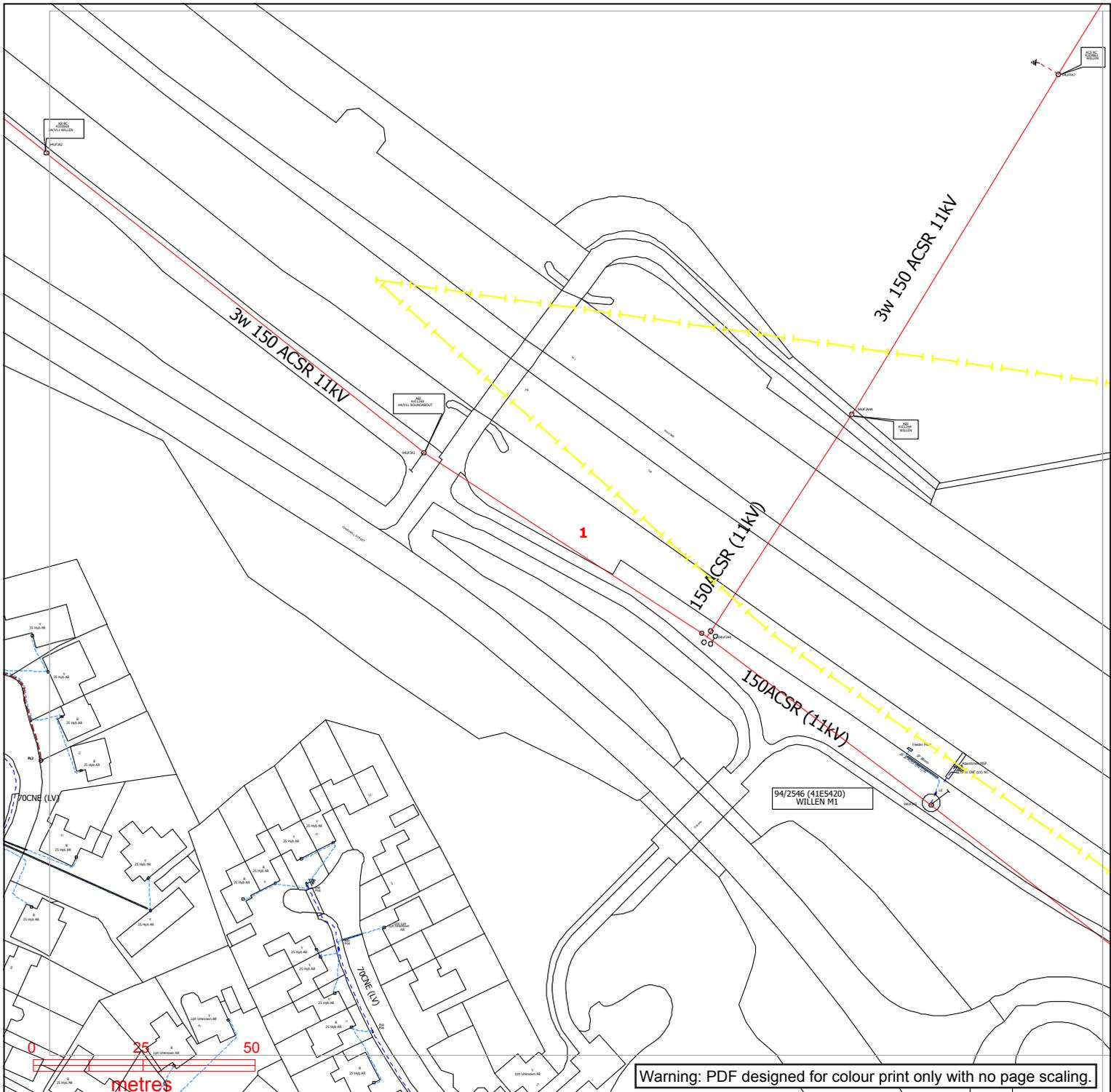
- P — P —
- Pole Mounted Transformer
- Ground Mounted Transformer

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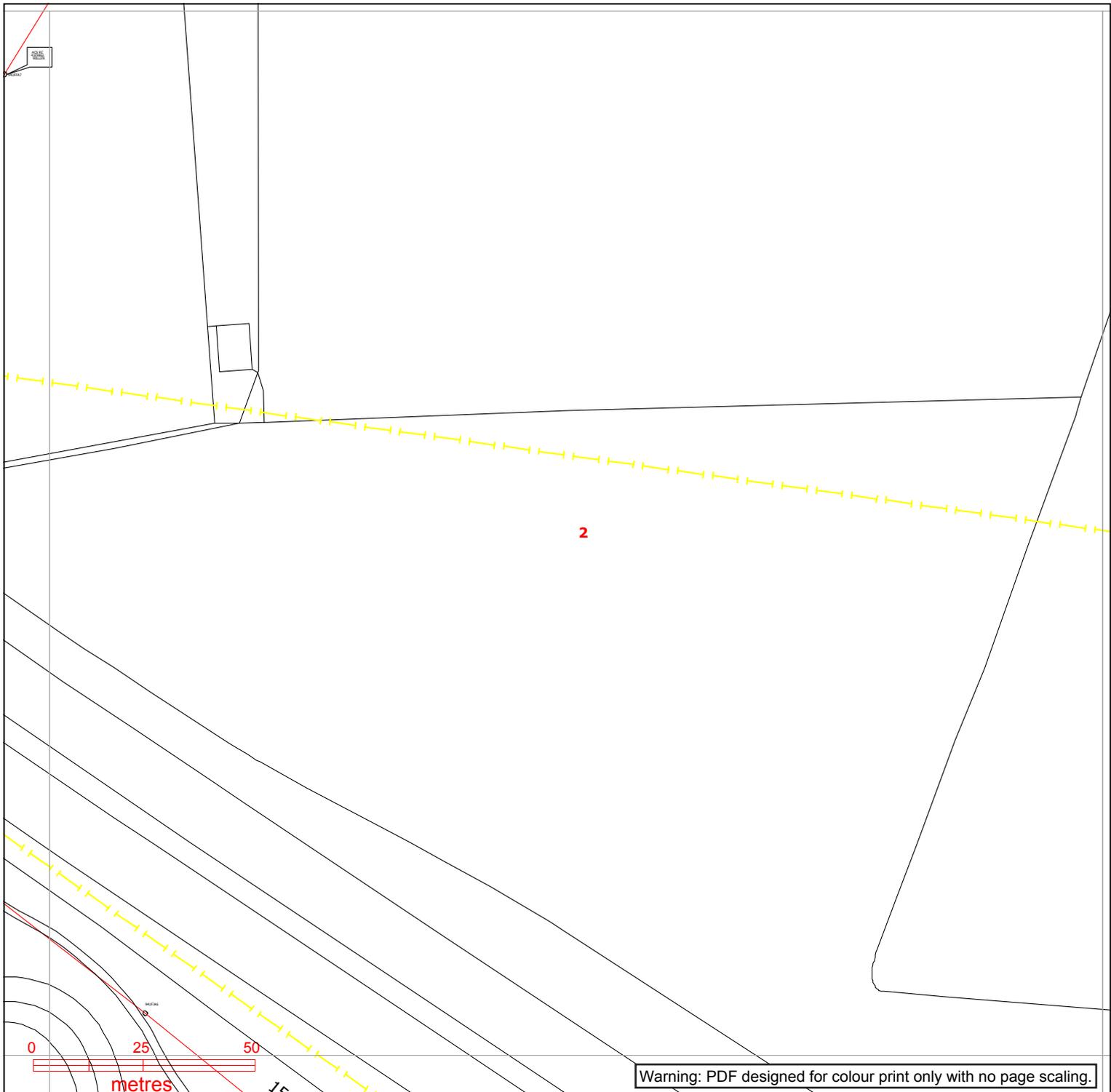
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○	○ Service	---	—E—E—	○ Pole Mounted Transformer
○	○ LV	---	—E—E—	□ Ground Mounted Transformer
○	○ HV (11kV)	---		
○	○ HV (33kV)	---		
○	○ HV (66kV)	---		
○	○ HV (132kV)	---		
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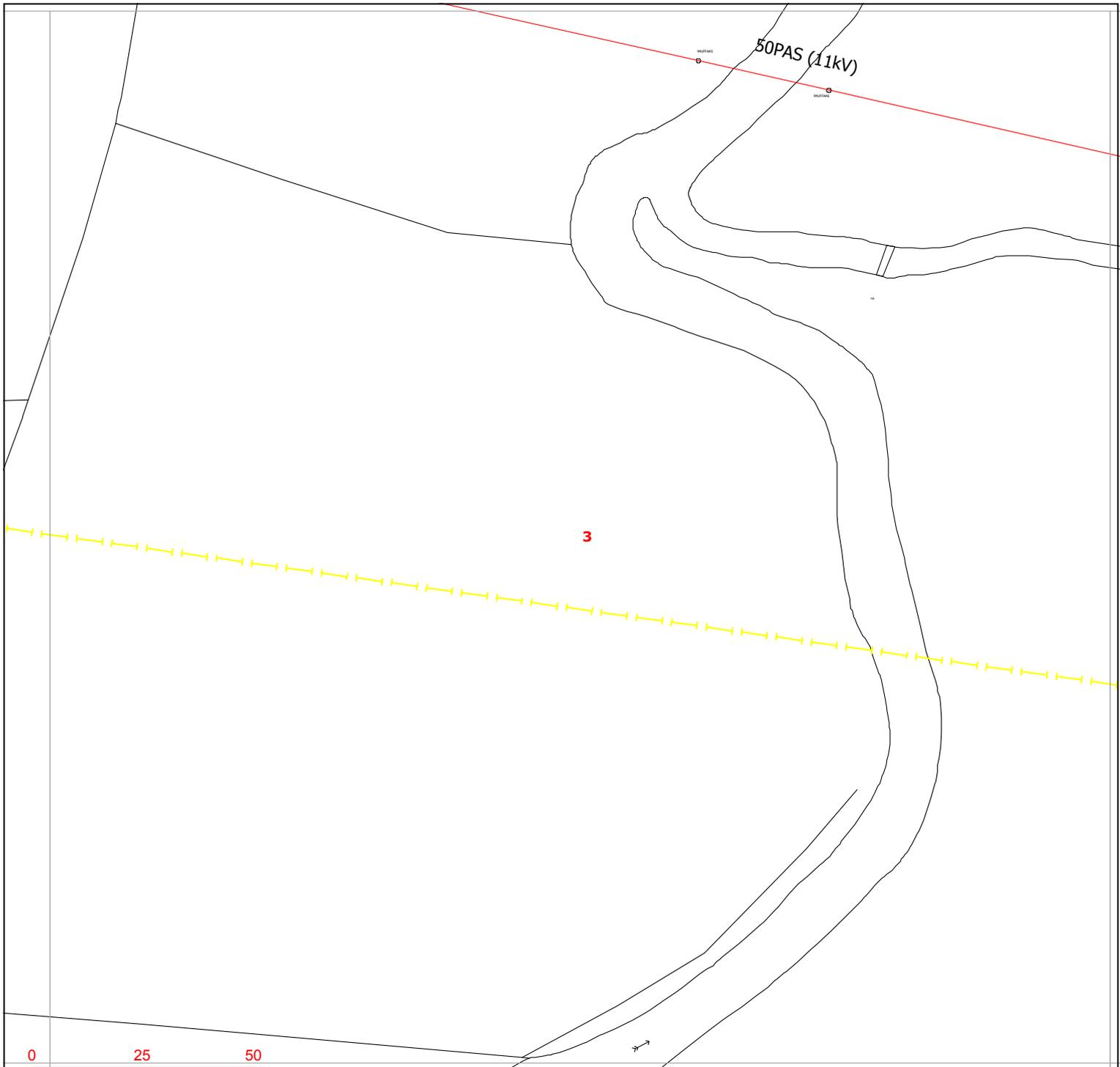
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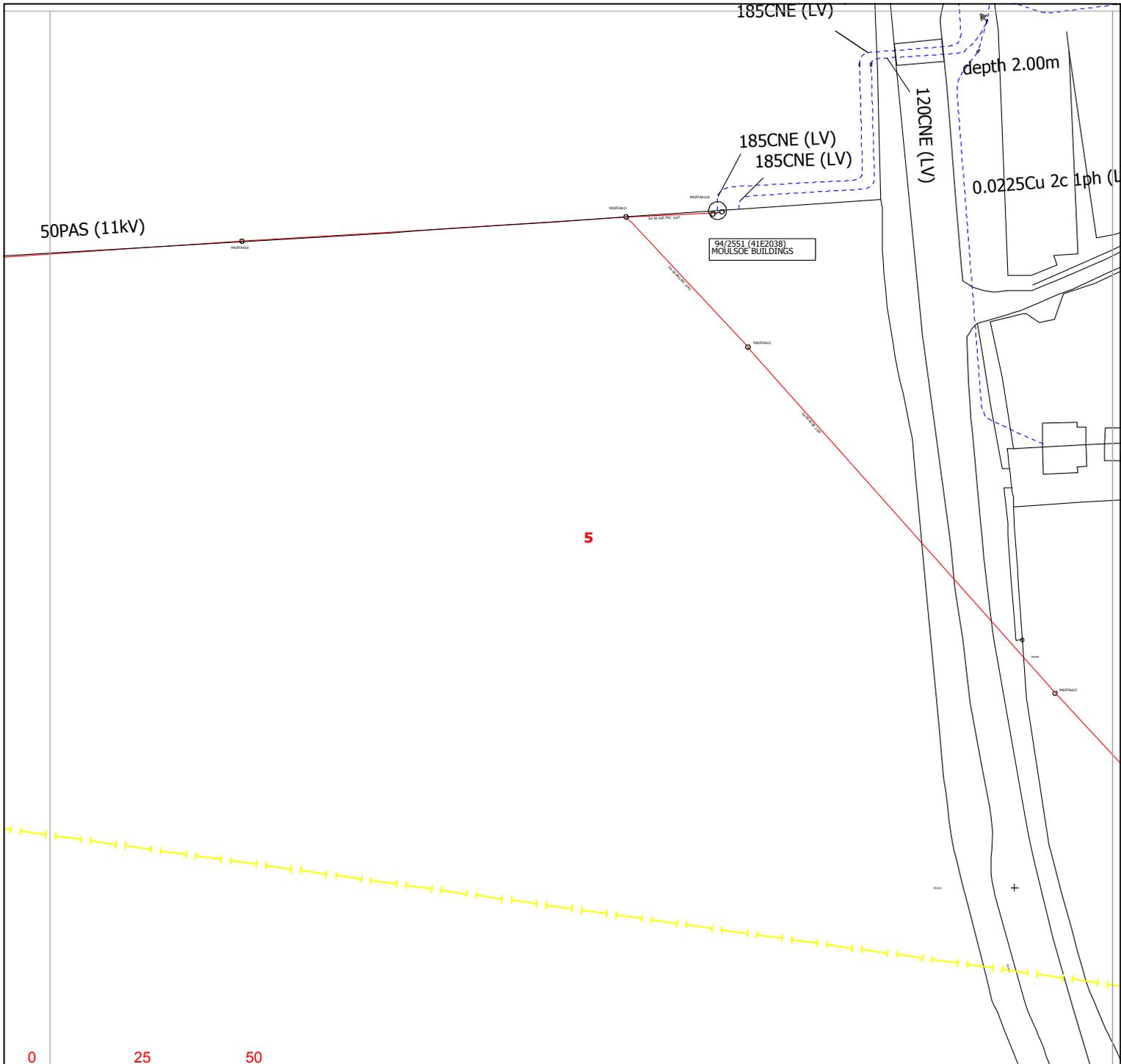
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**General Enquiries:**  
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Date Requested: 21/10/2020  
 Job Reference: 20280294  
 Site Location: 489280 241214  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-4

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

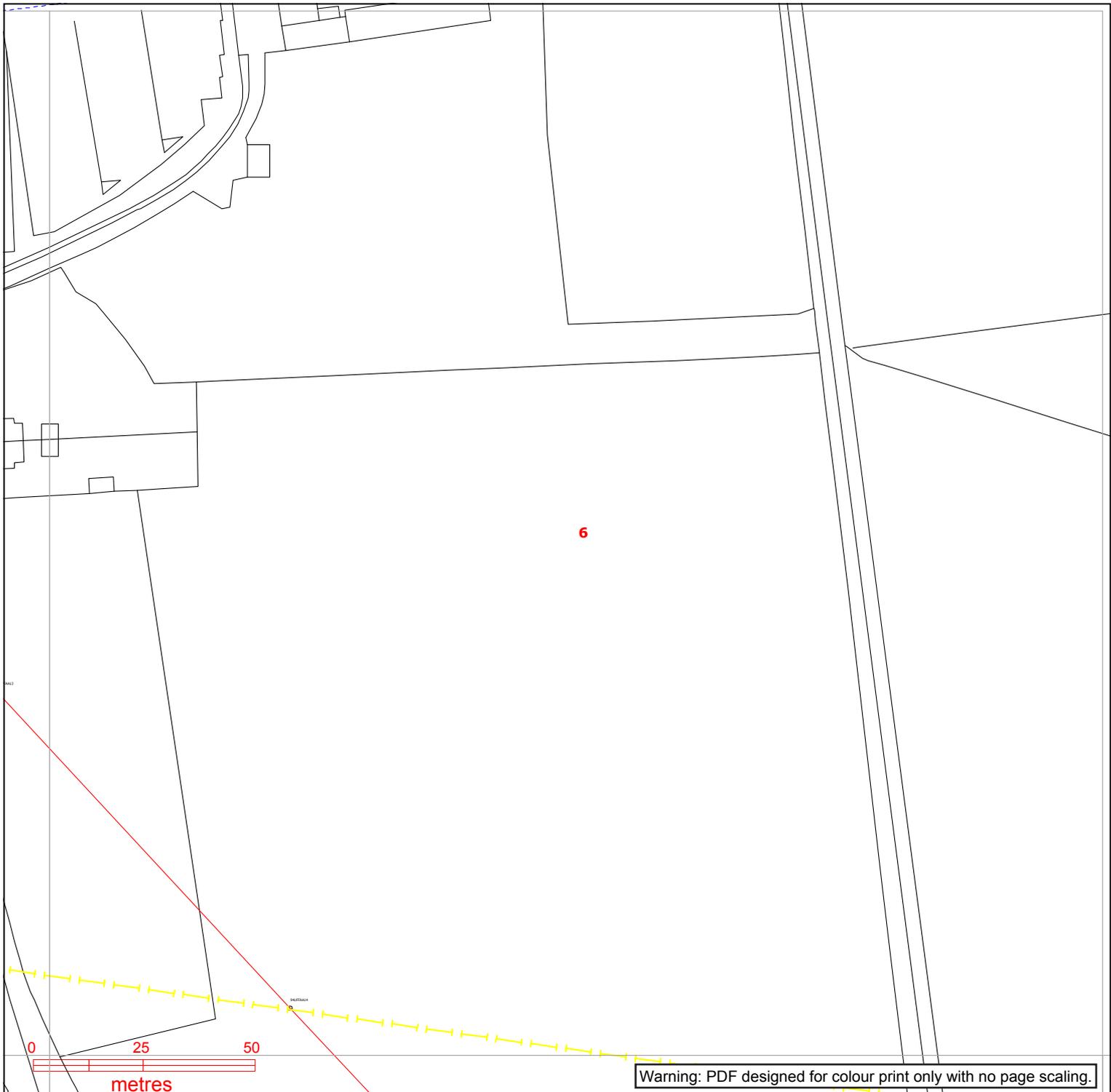
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	— —	— S — S —  PME Earth  Underground Earth	— P — P —  ○ Pole Mounted Transformer  □ Ground Mounted Transformer

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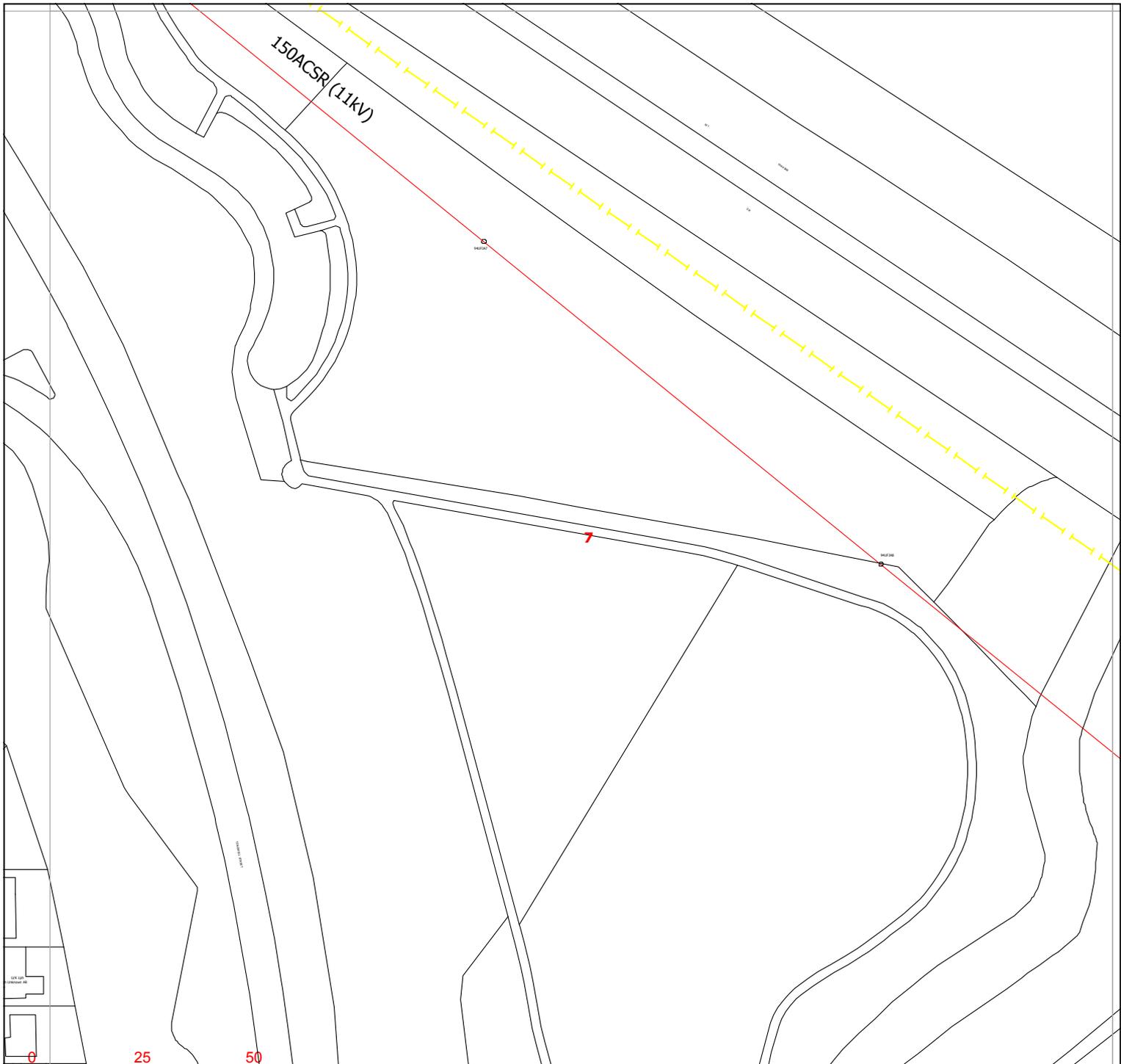
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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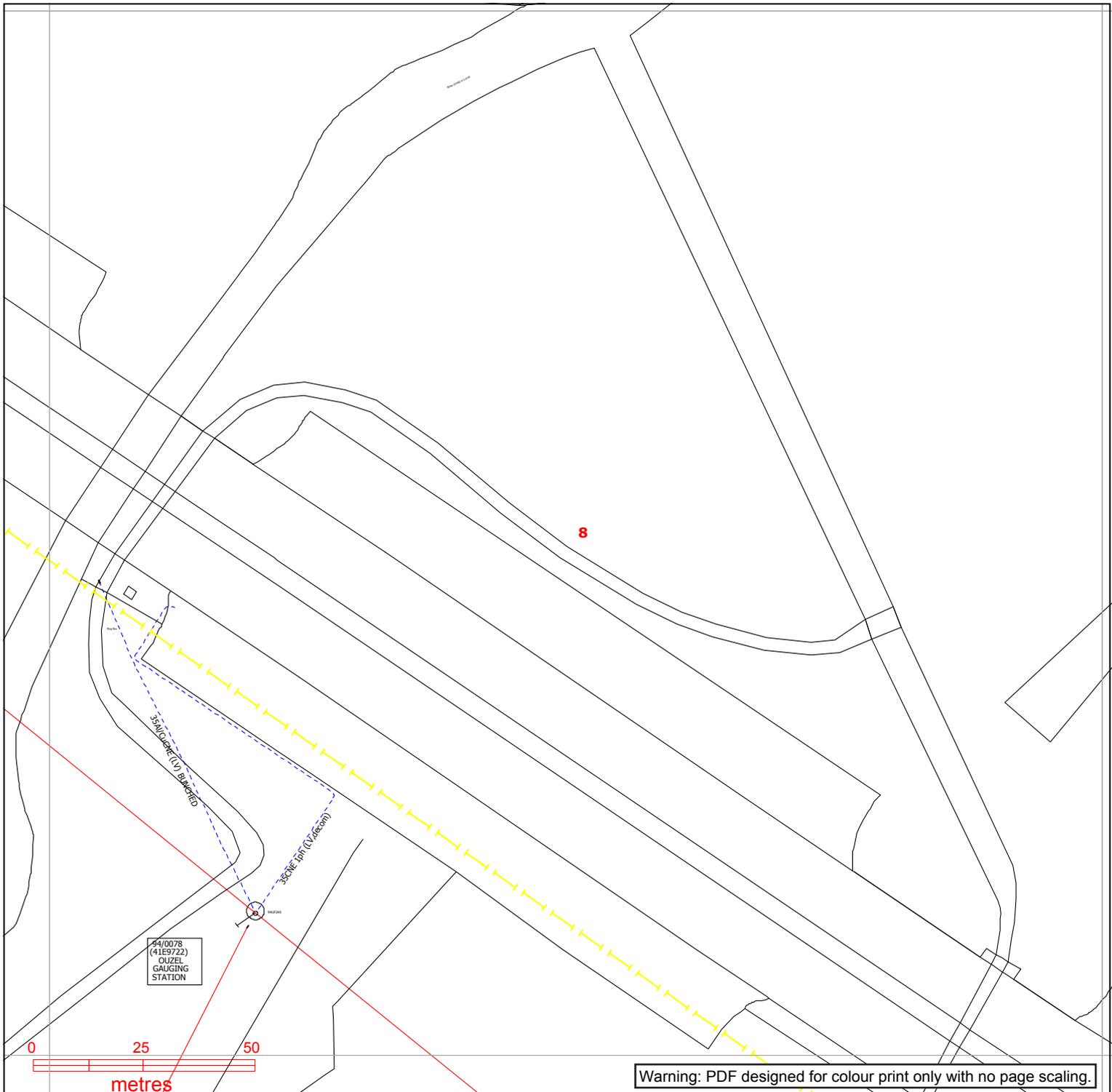
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	— —	— S — S — PME Earth Underground Earth	— P — P — ○ Pole Mounted Transformer □ Ground Mounted Transformer

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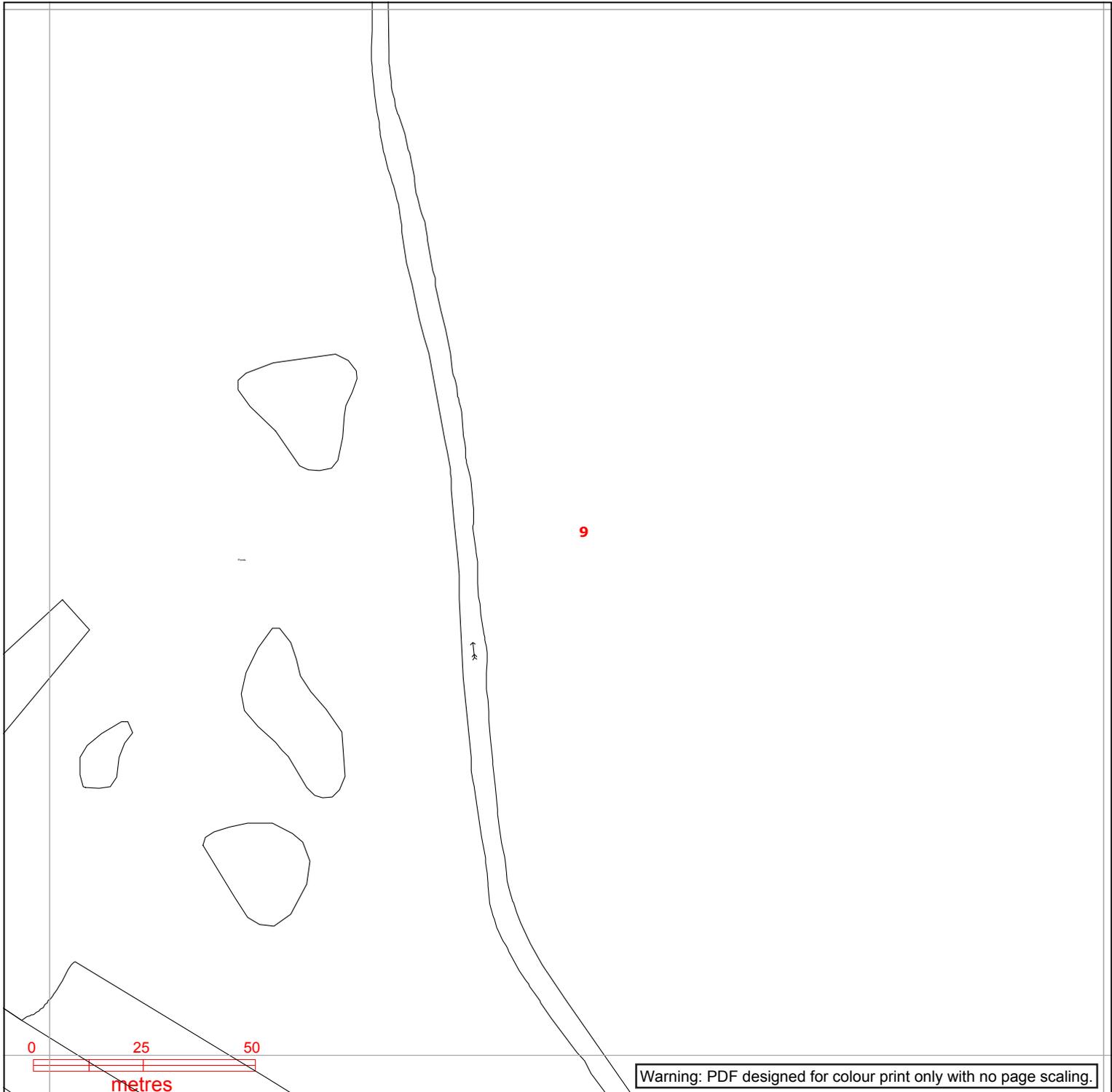
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ○—○ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> P—P— Pole Mounted Transformer Ground Mounted Transformer
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<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> —S—S—  PME Earth  Underground Earth	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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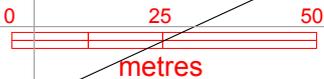
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10

94/2552 (41E5027)  
NEWPORT ROAD PUMPING STATION MOULSOE



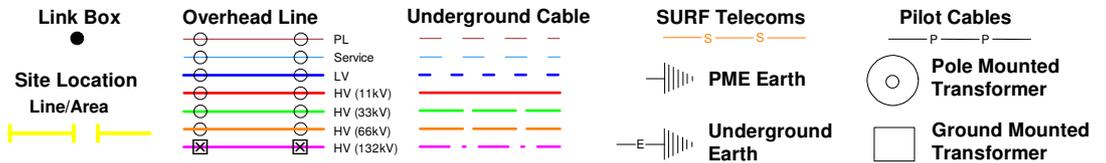
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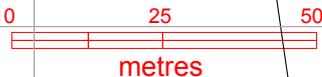
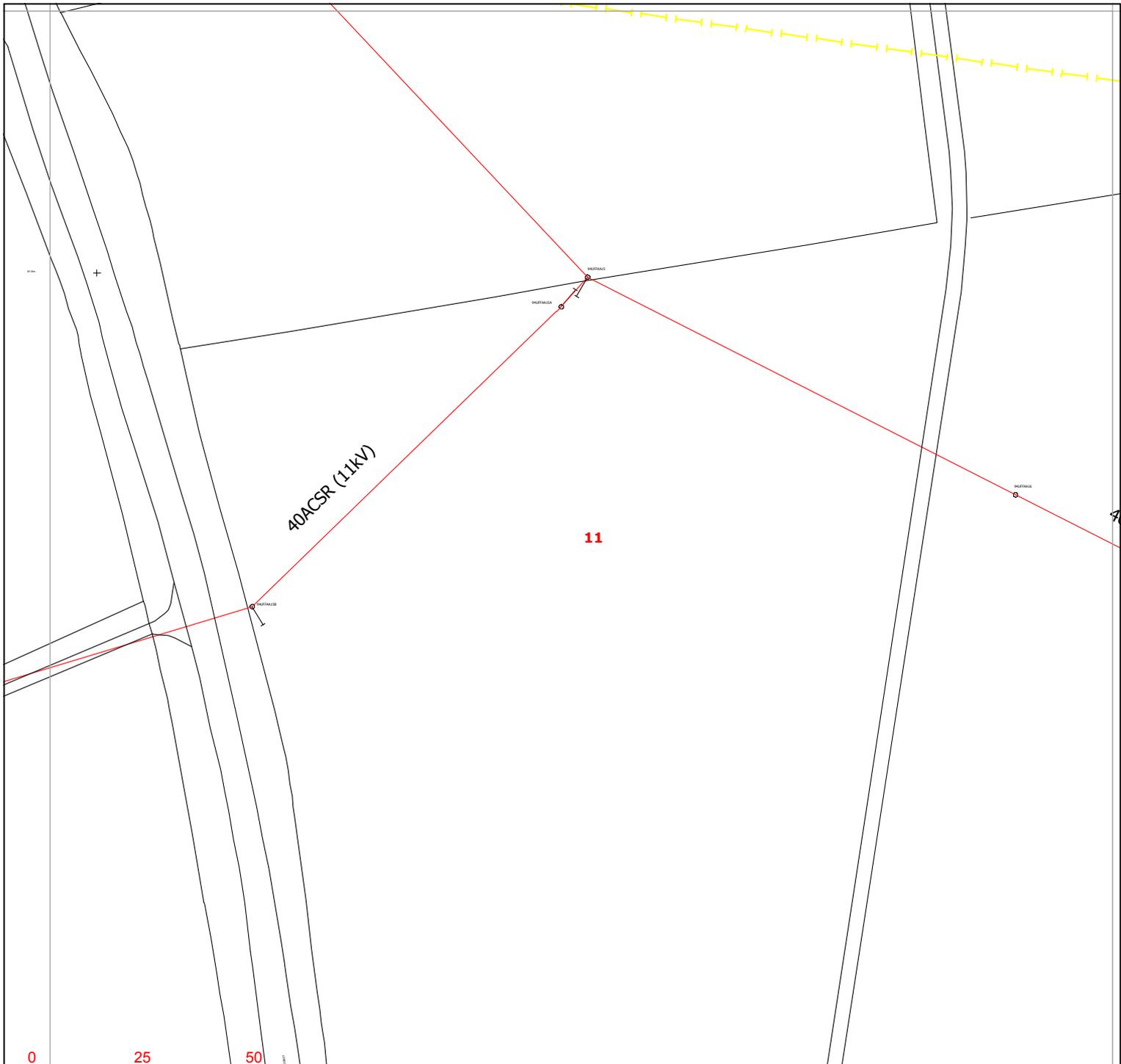


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<b>Link Box</b> 	<b>Overhead Line</b> 	<b>Underground Cable</b> 	<b>SURF Telecoms</b> 	<b>Pilot Cables</b> 
<b>Site Location</b> 			<b>PME Earth</b>	<b>Pole Mounted Transformer</b>
<b>Line/Area</b> 			<b>Underground Earth</b>	<b>Ground Mounted Transformer</b>

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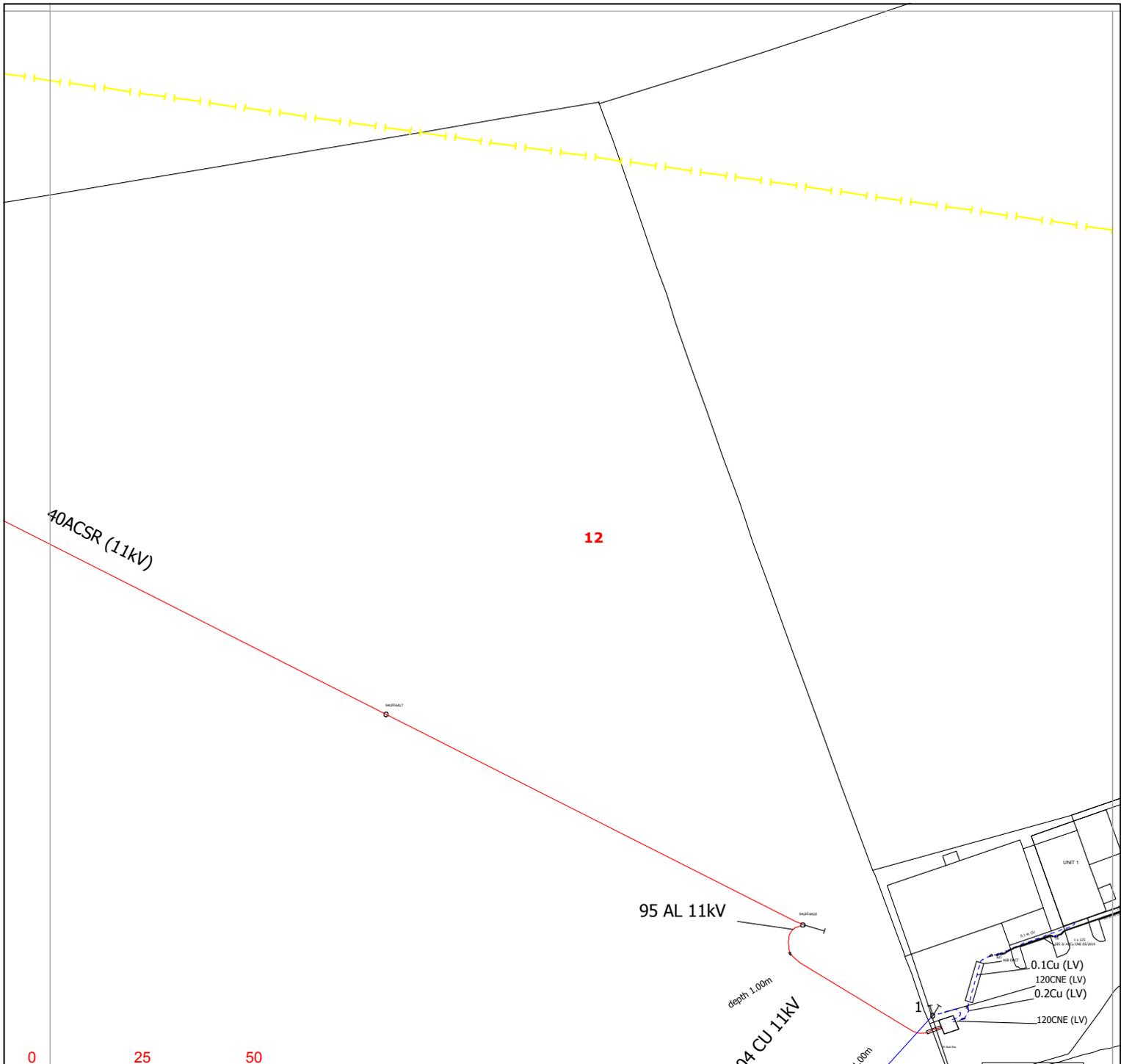
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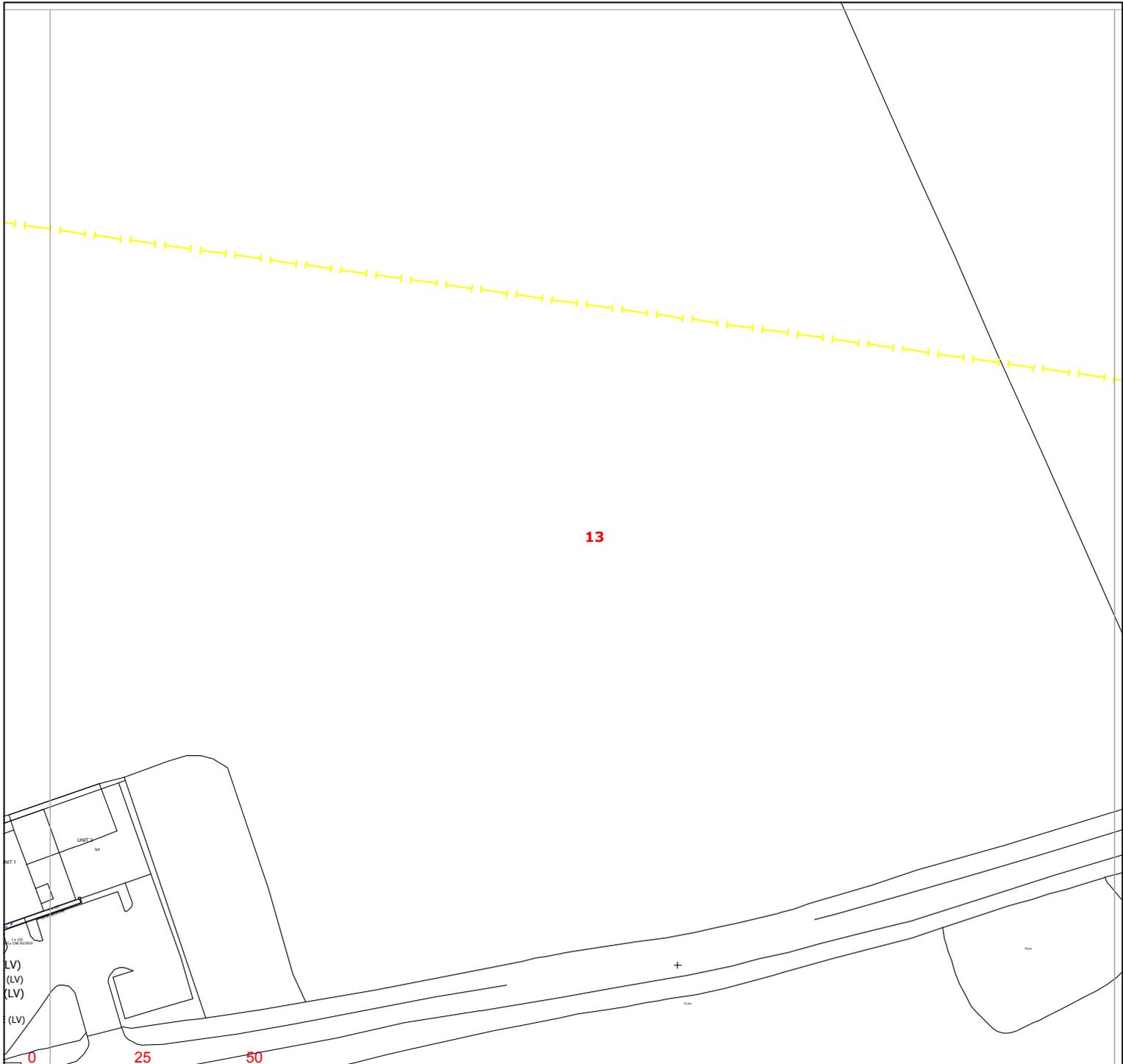
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> P—P— Pole Mounted Transformer Ground Mounted Transformer
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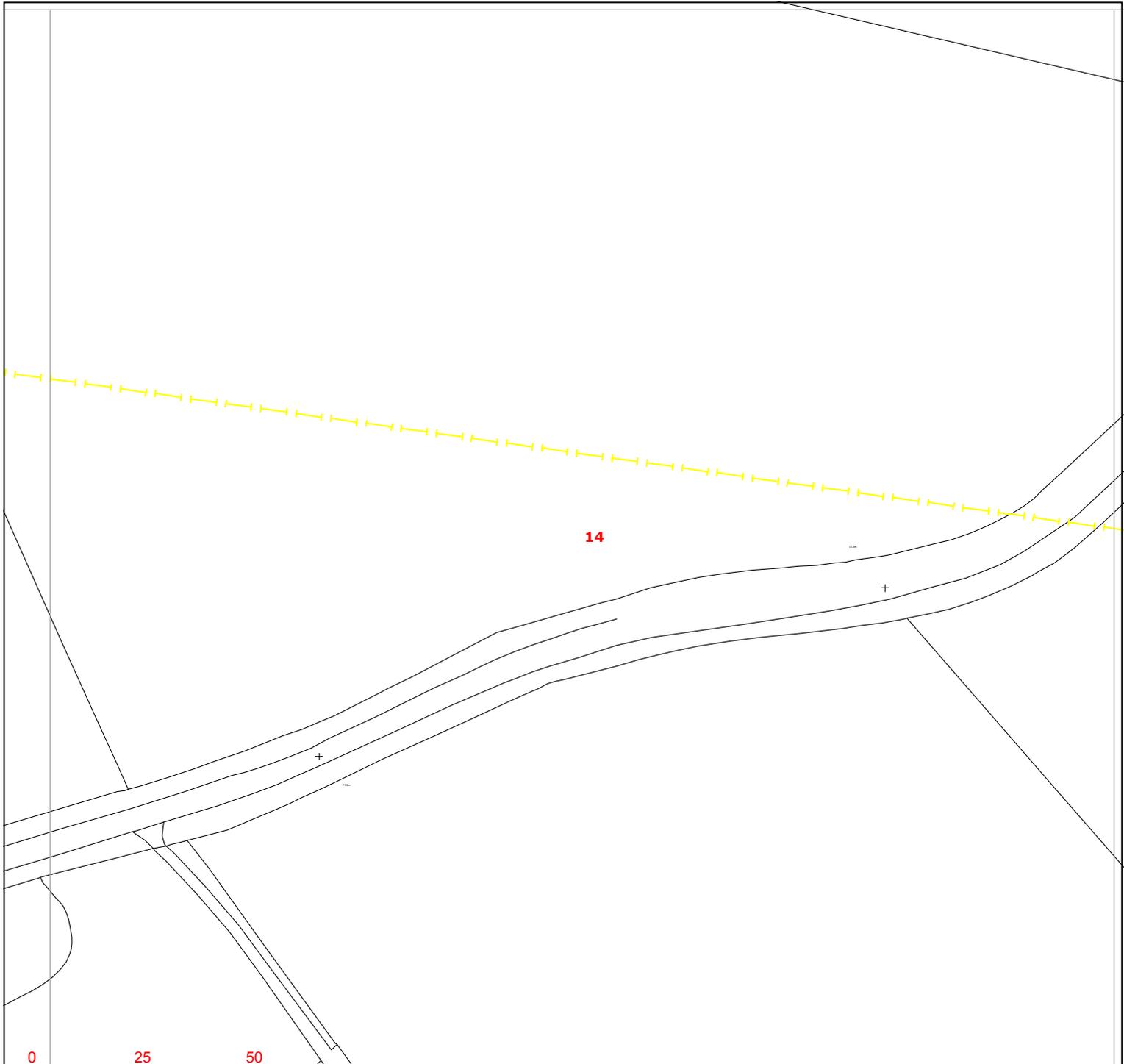
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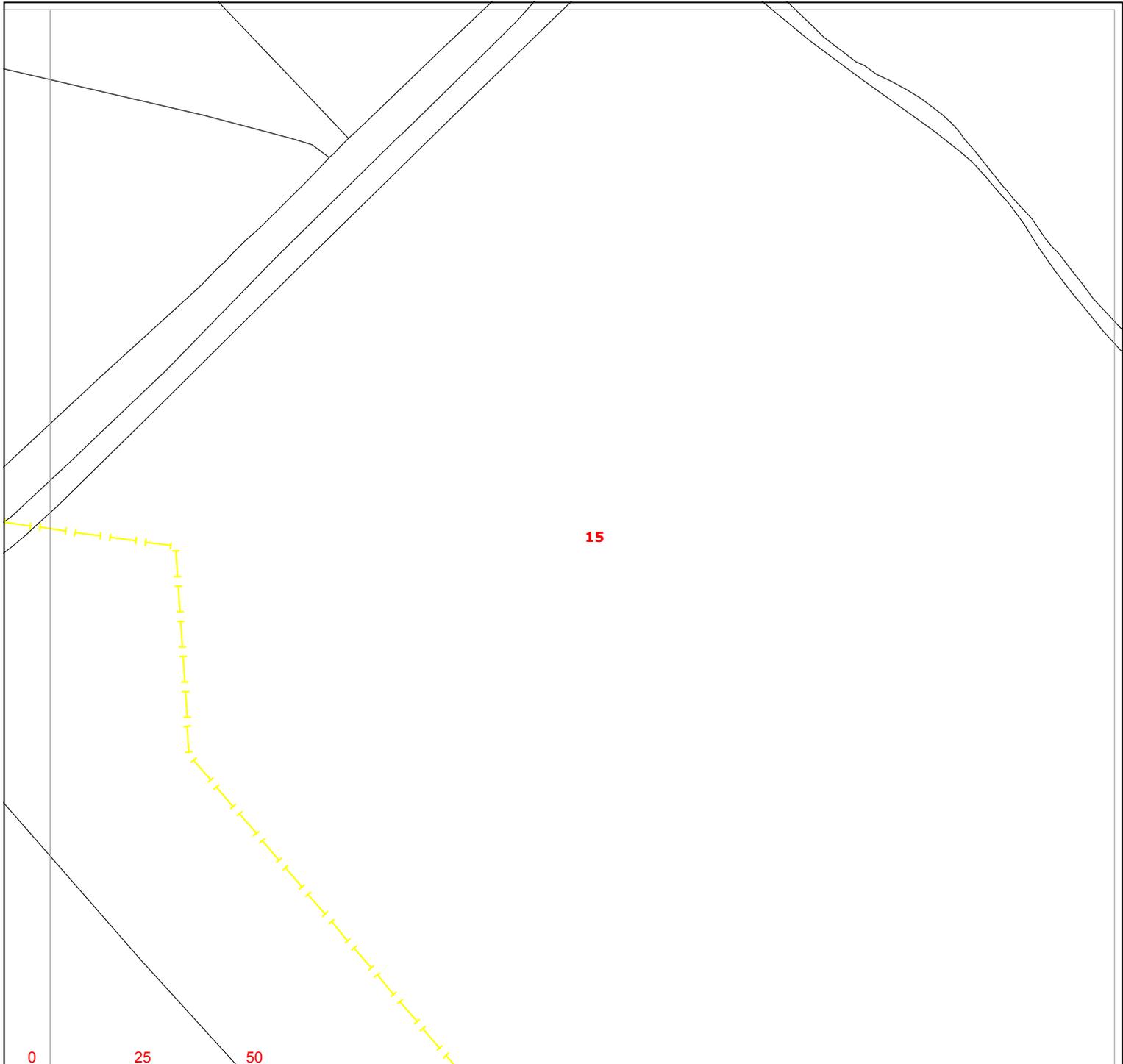
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> —S—S—  PME Earth —E—	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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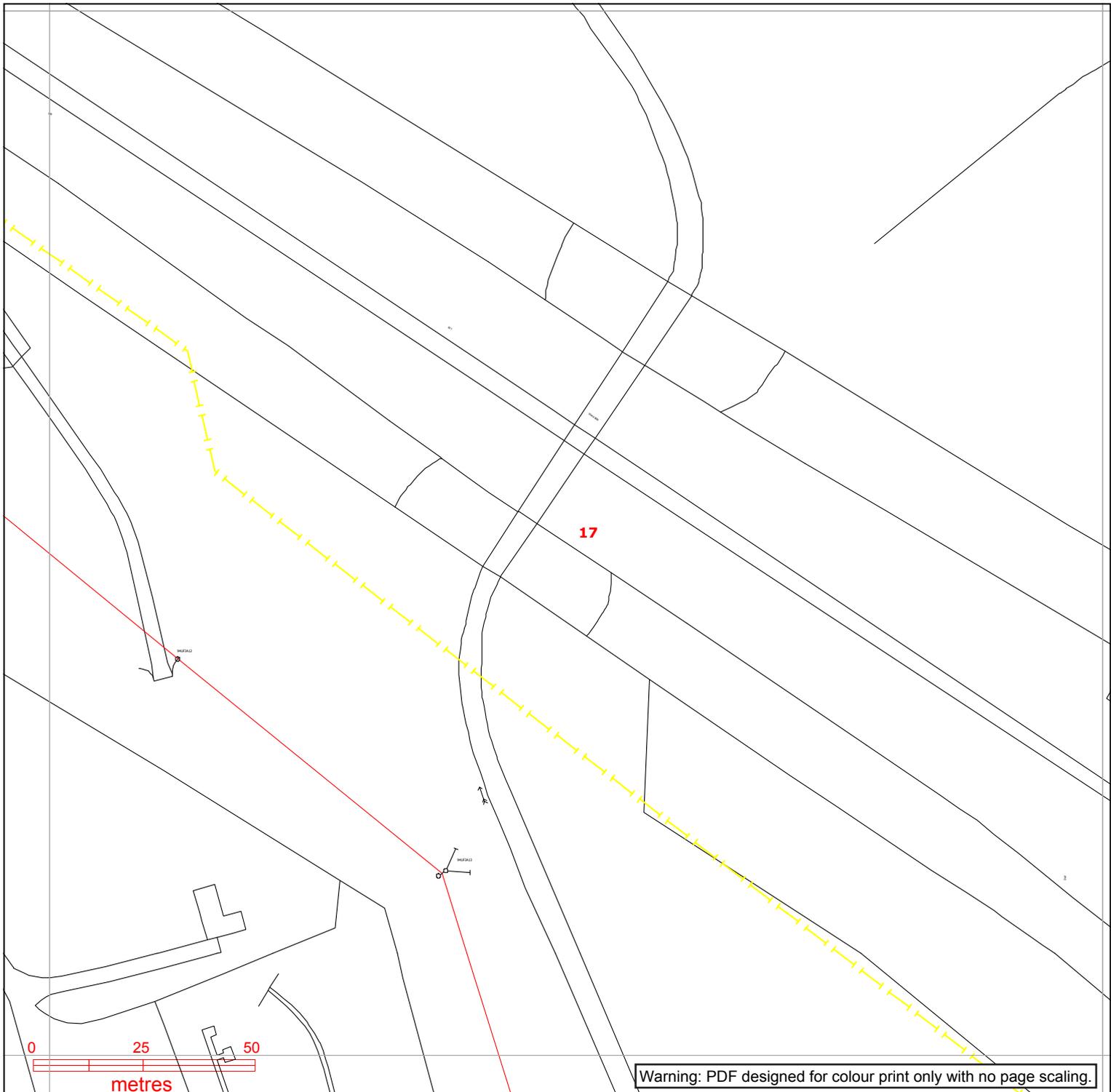
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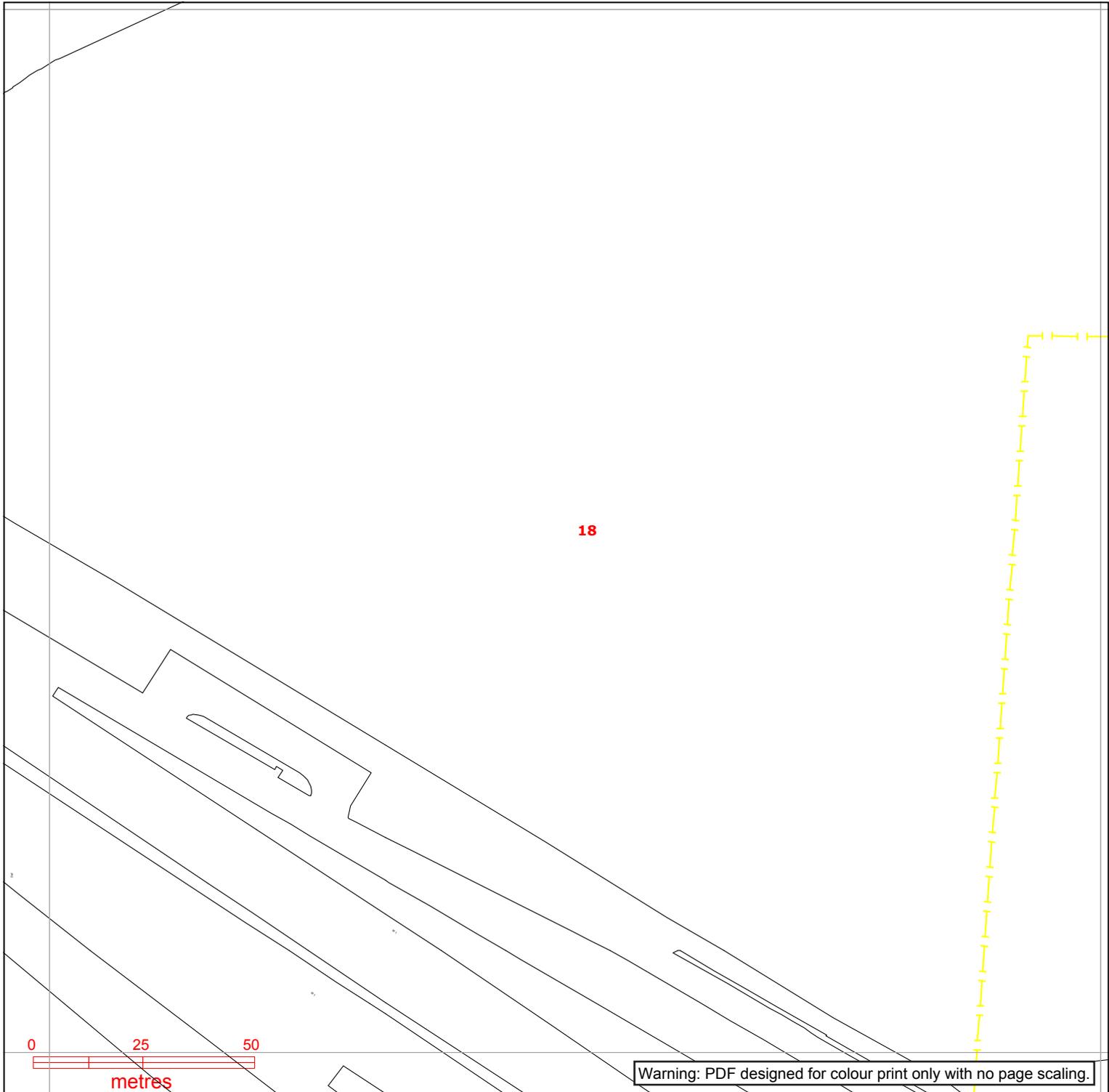
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	<b>Underground Cable</b> - - - PL - - - Service - - - LV - - - HV (11kV) - - - HV (33kV) - - - HV (66kV) - - - HV (132kV)	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> P-P- Pole Mounted Transformer Ground Mounted Transformer
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**IMPORTANT NOTICES**

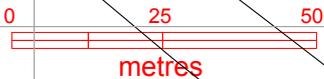
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Date Requested: 21/10/2020  
 Job Reference: 20280294  
 Site Location: 489280 241214  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-4

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

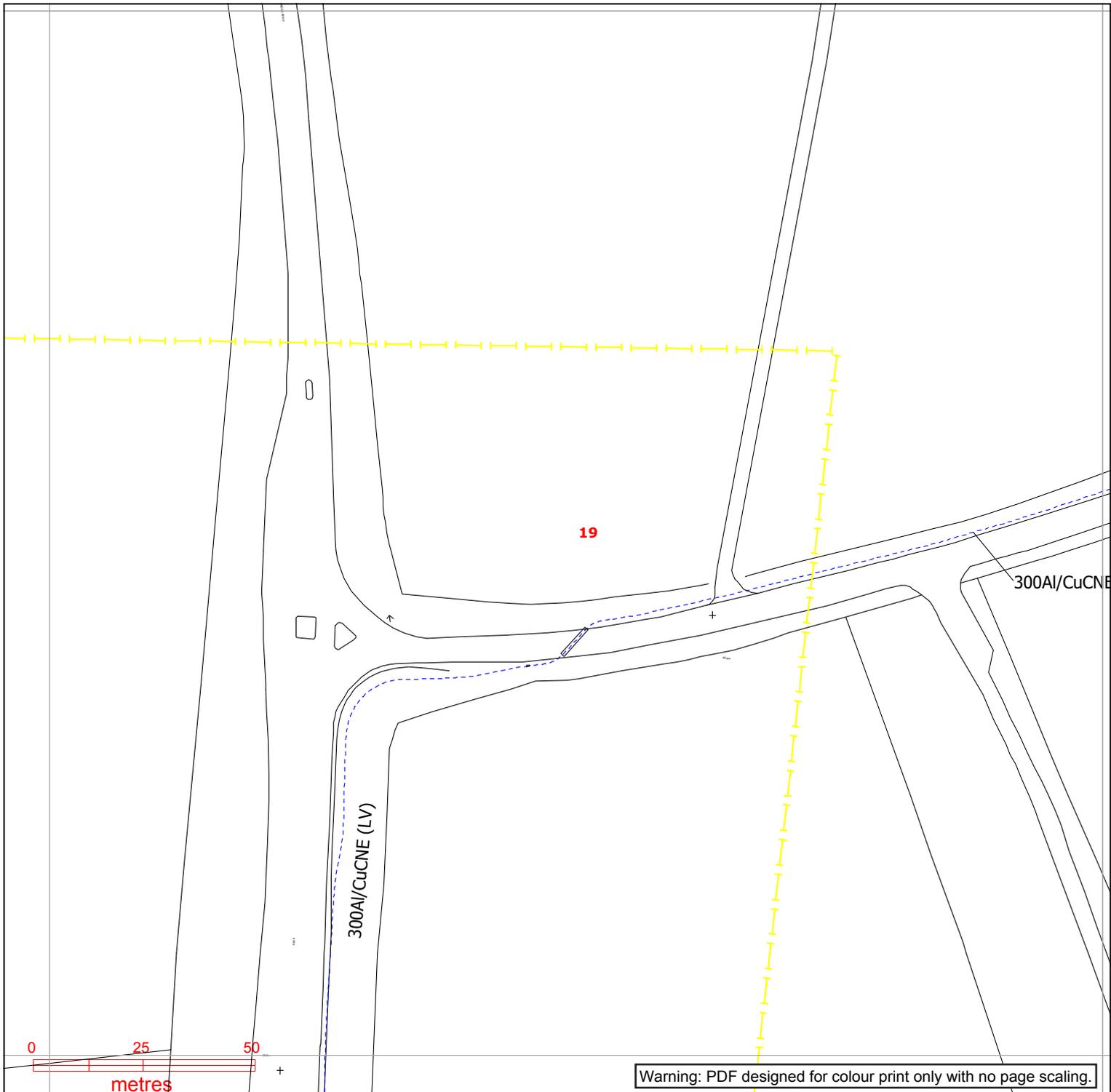
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●				

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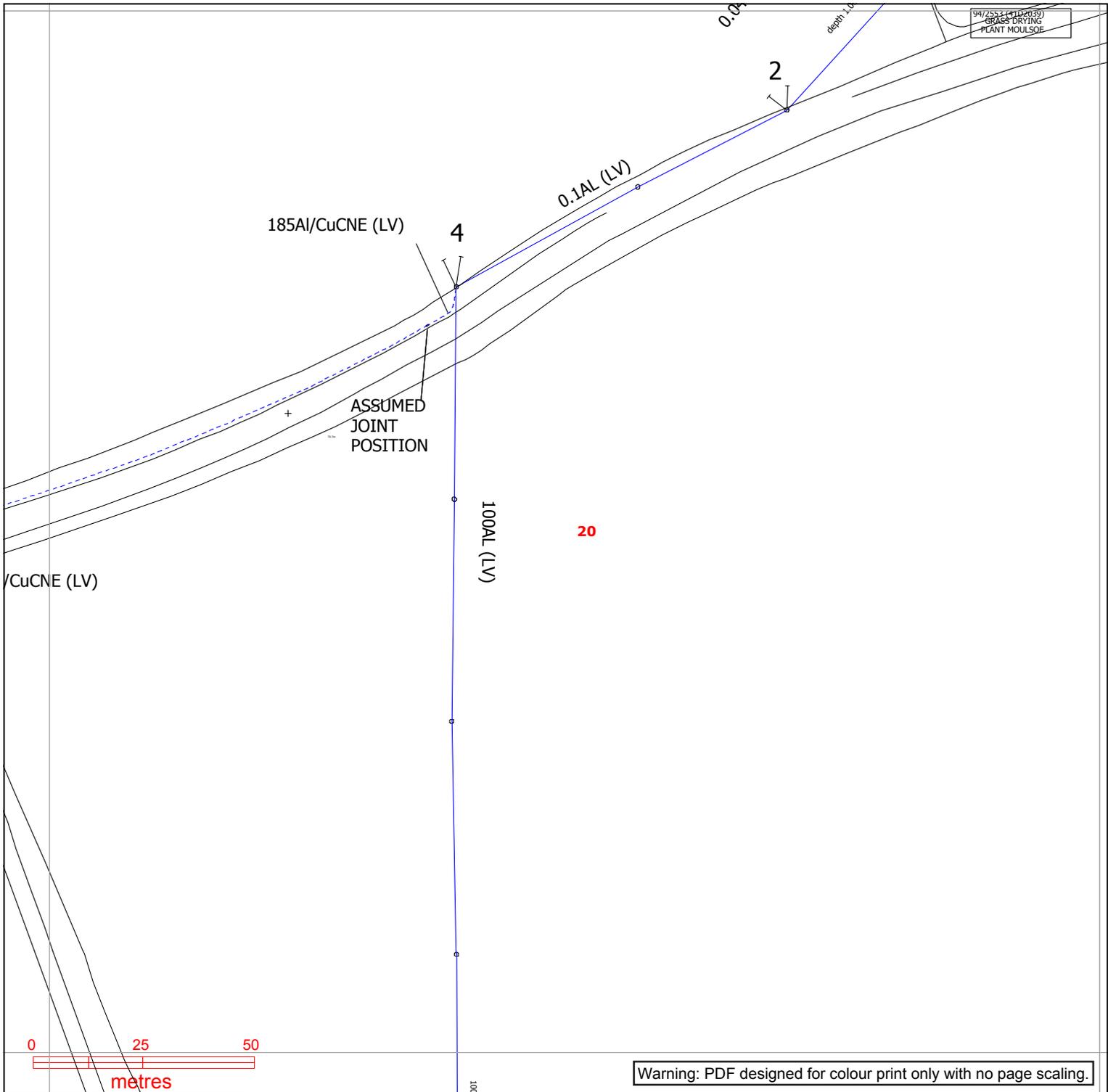
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ○—○ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> P—P— Pole Mounted Transformer Ground Mounted Transformer
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89518/BRK-4

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1:500 Line dig site

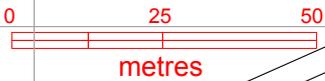
<b>Link Box</b> ●	<b>Overhead Line</b> ○ ○ PL ○ ○ Service ○ ○ LV ○ ○ HV (11kV) ○ ○ HV (33kV) ○ ○ HV (66kV) ⊠ ⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> - S - S - <b>PME Earth</b> - E - <b>Underground Earth</b>	<b>Pilot Cables</b> - P - P - <b>Pole Mounted Transformer</b> <b>Ground Mounted Transformer</b>
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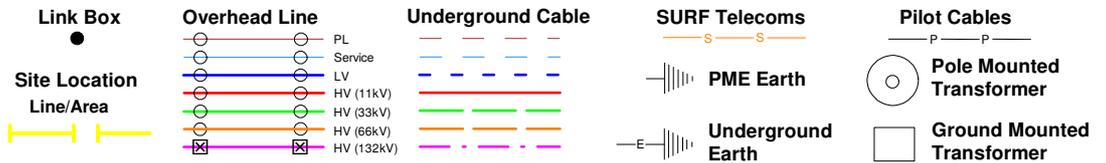
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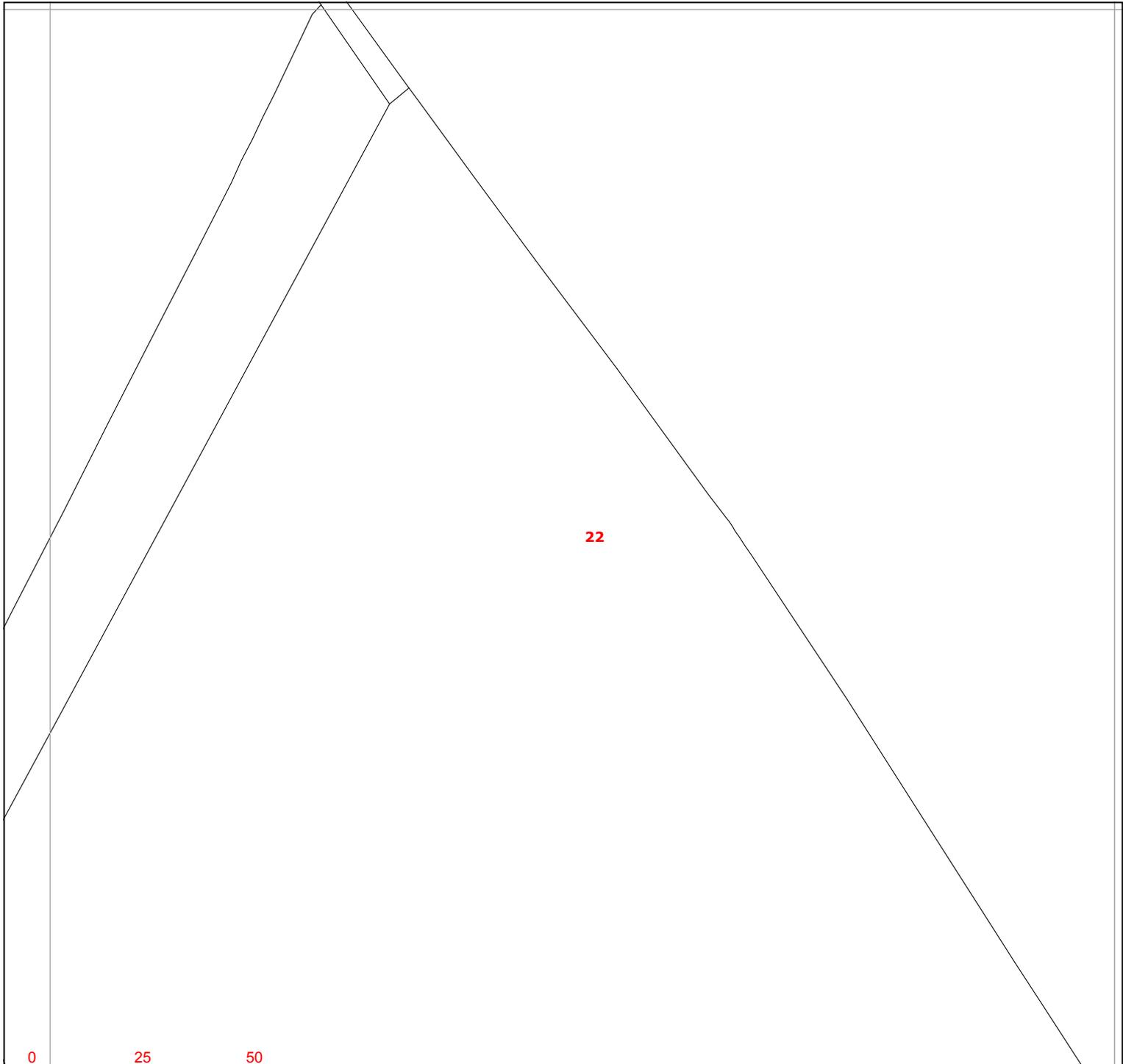


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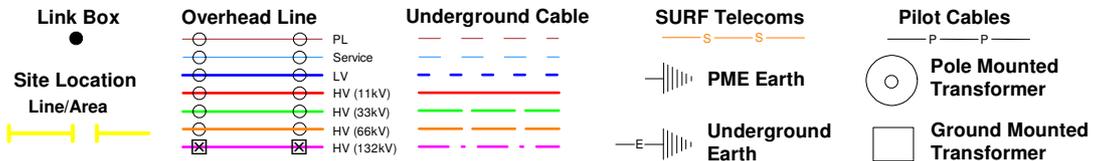
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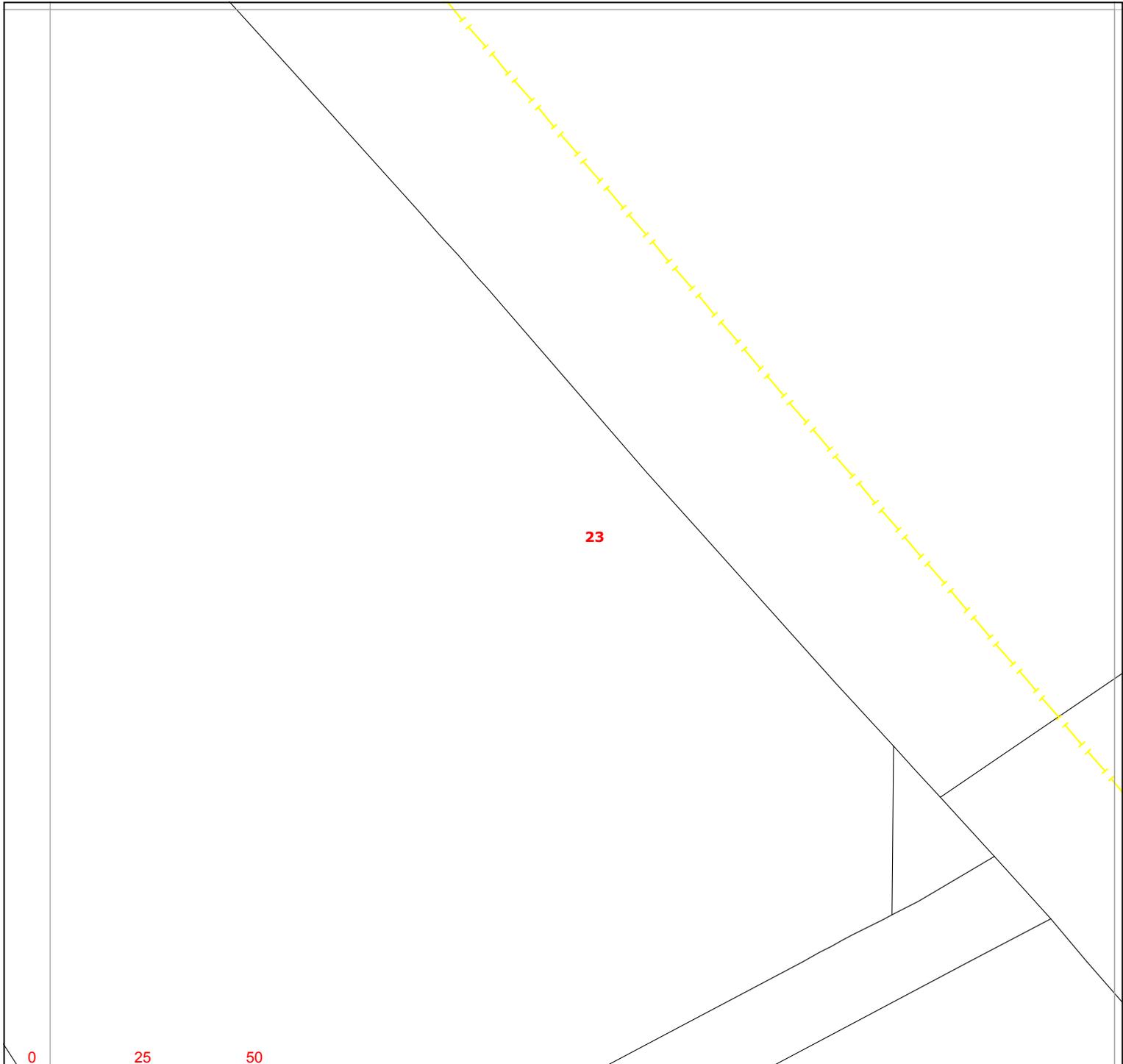


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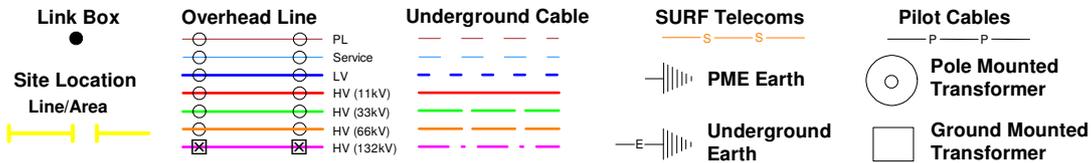
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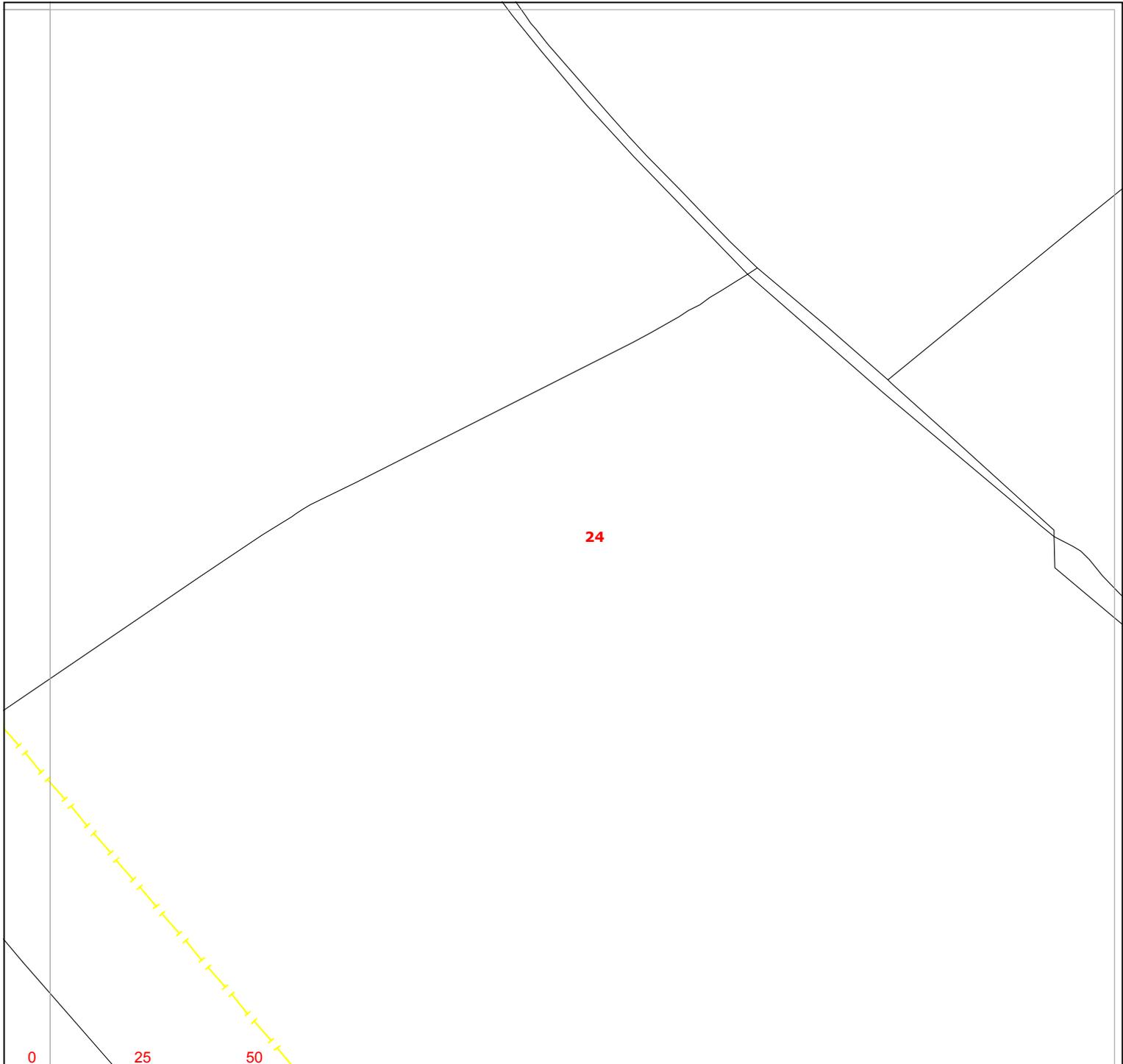


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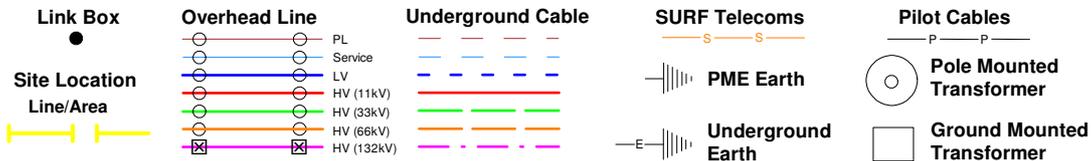
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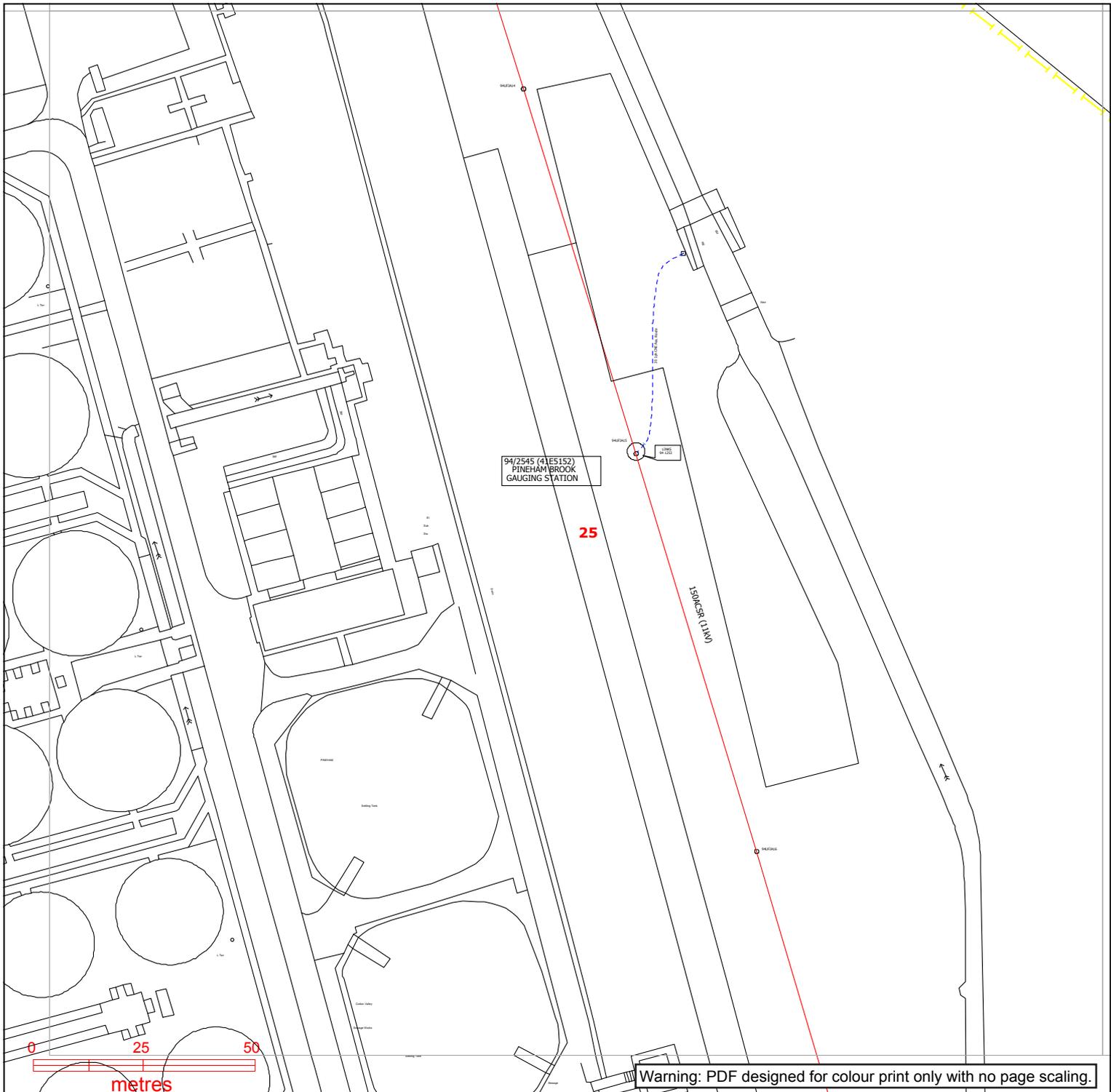


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<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> -S-S- <b>PME Earth</b> ⊥ <b>Underground Earth</b> -E-	<b>Pilot Cables</b> -P-P- <b>Pole Mounted Transformer</b> ○ <b>Ground Mounted Transformer</b> □
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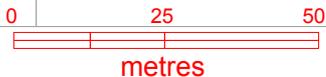
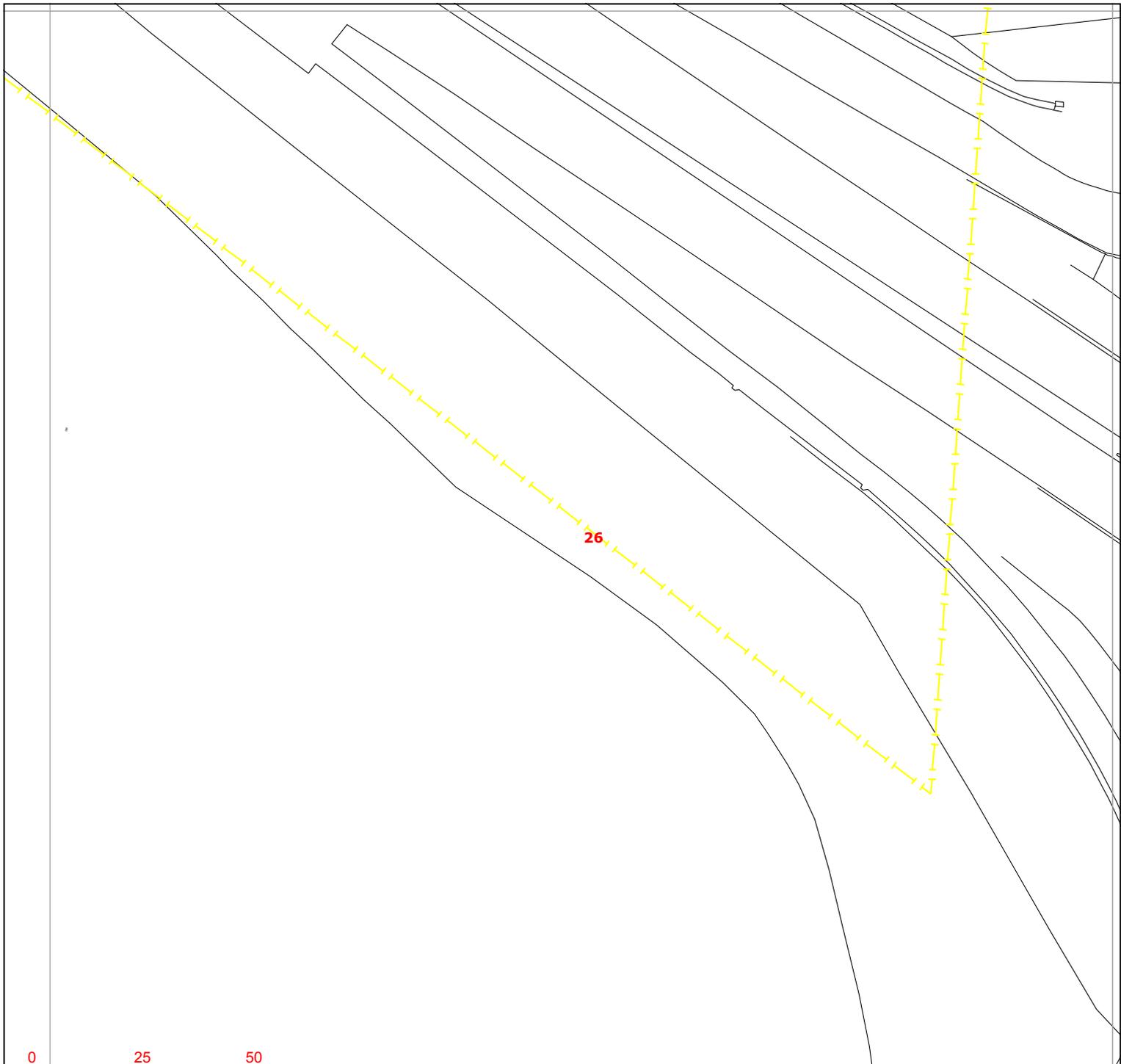
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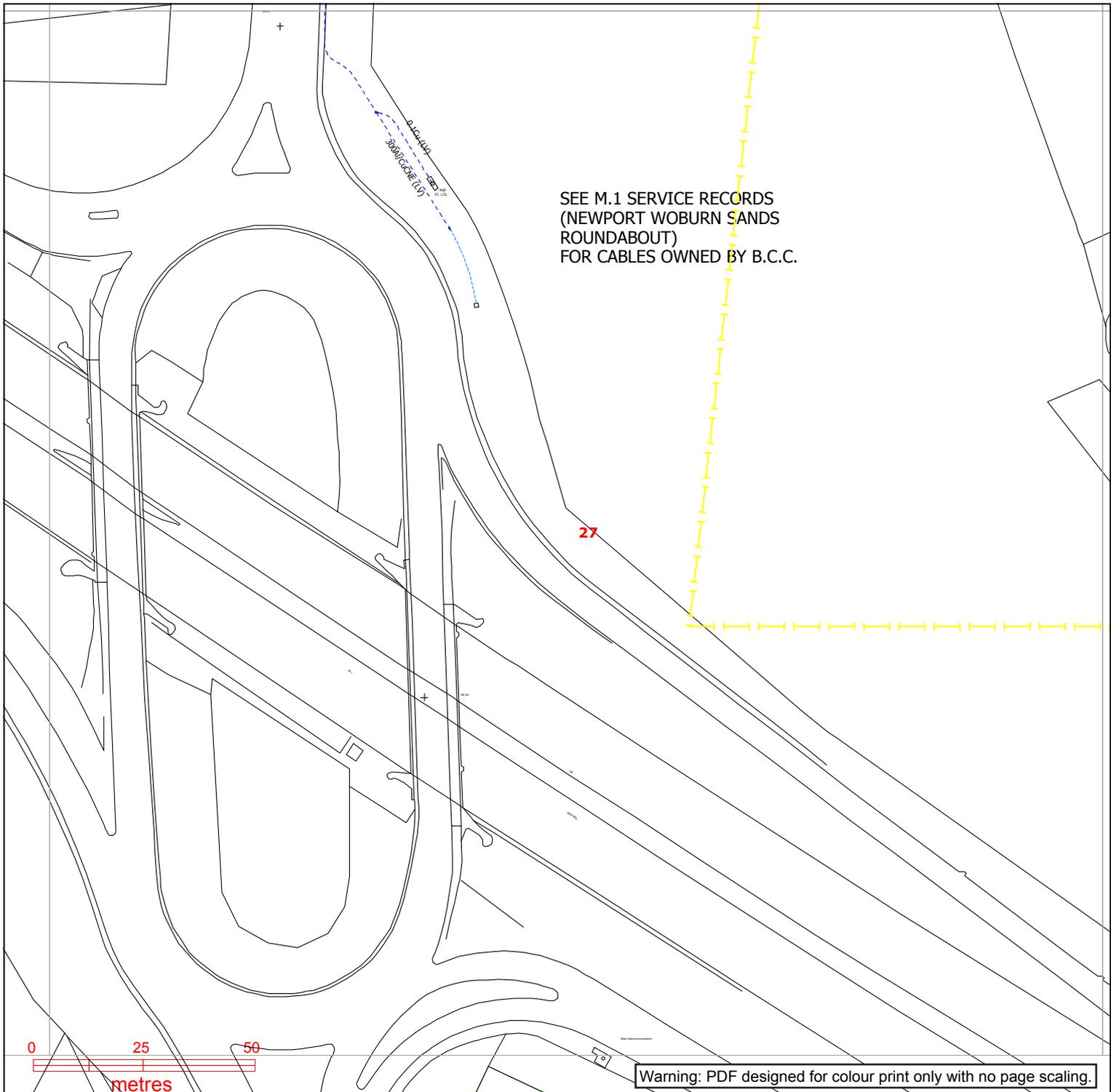
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●				
<b>Site Location</b>  <b>Line/Area</b> 				

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(NEWPORT WOBURN SANDS  
ROUNDBOUT)  
FOR CABLES OWNED BY B.C.C.

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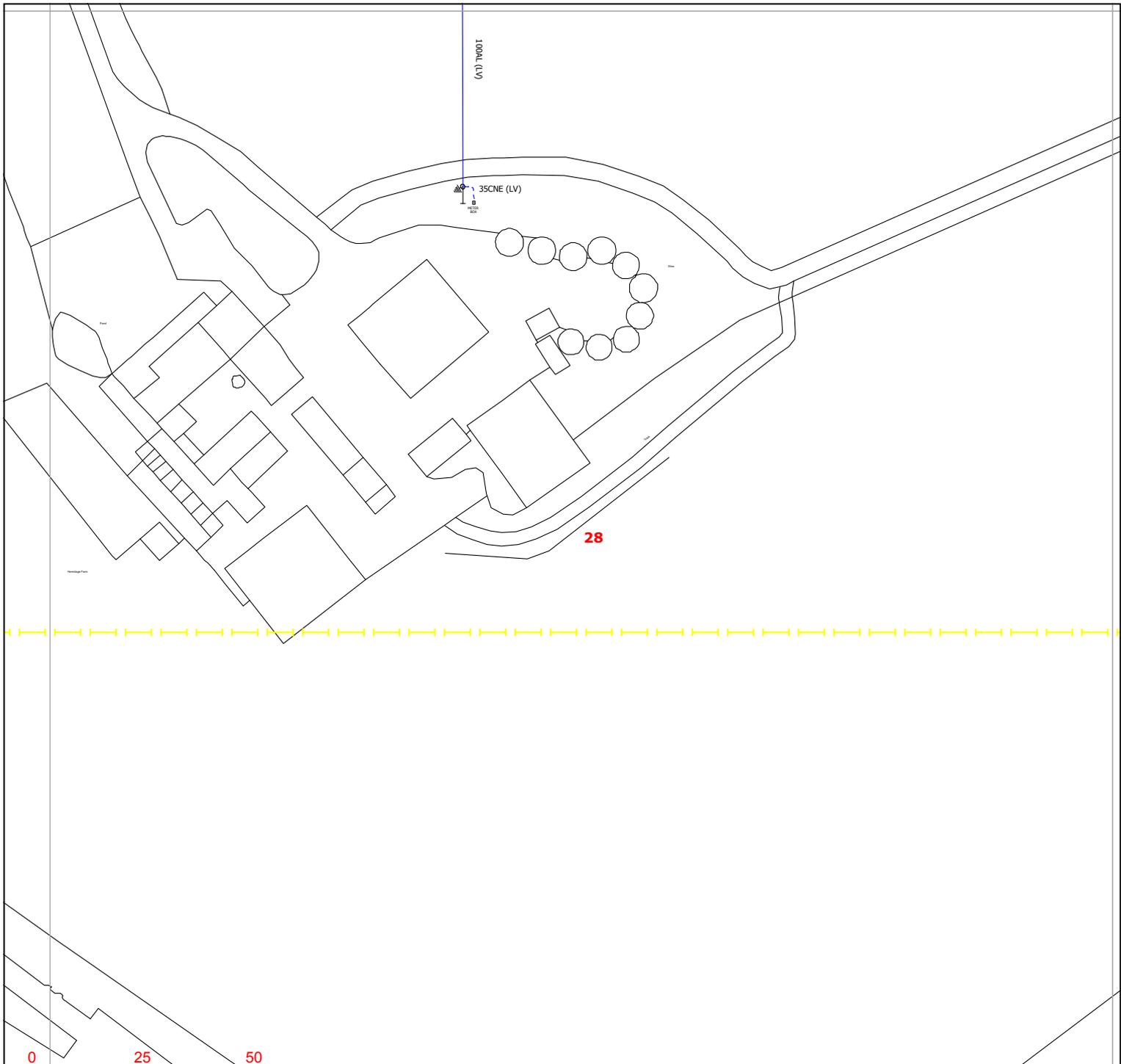
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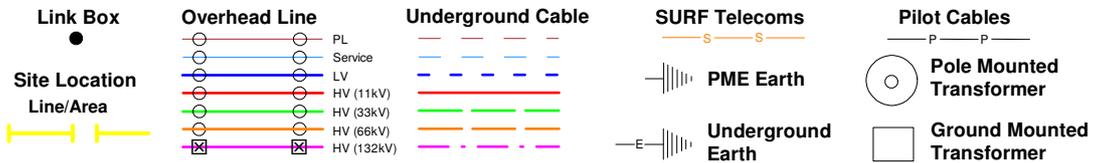
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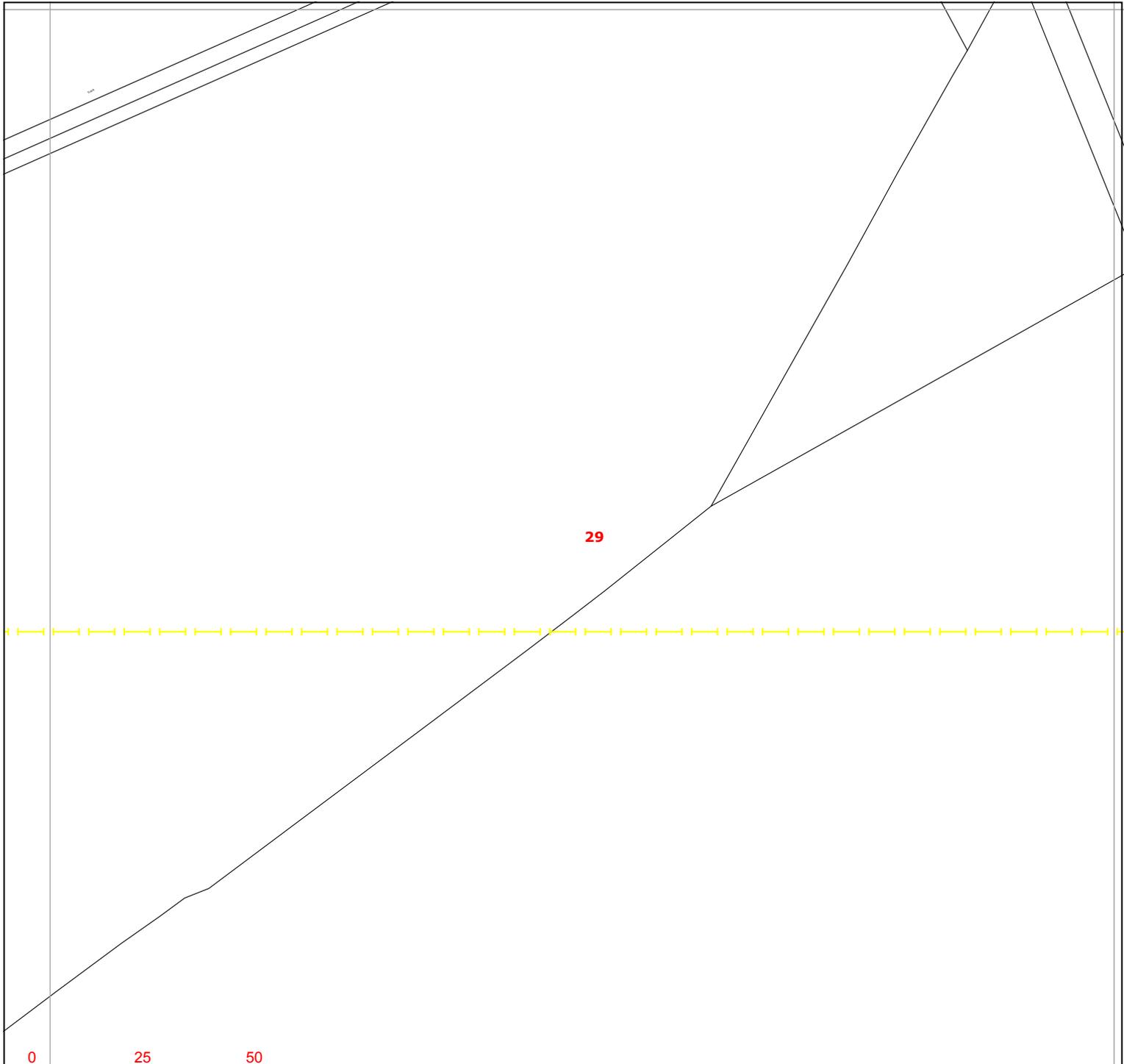


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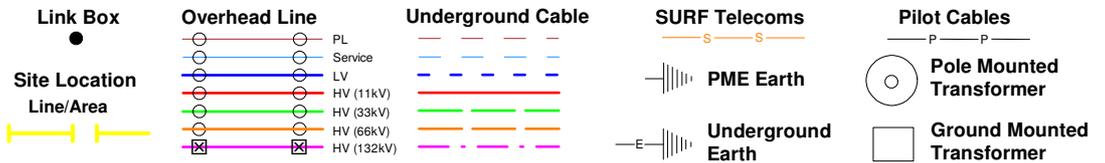
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 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-4

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

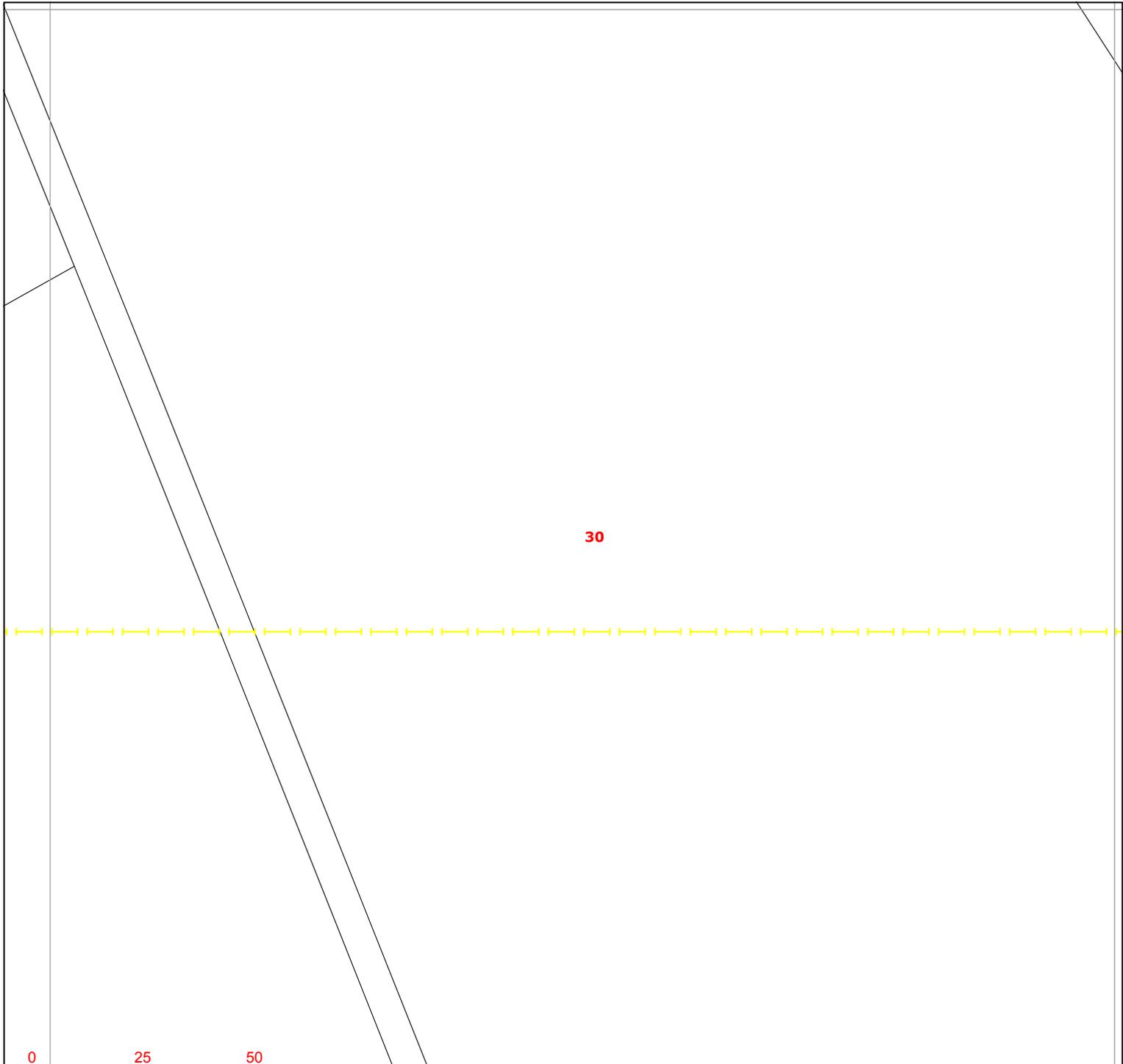


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**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA**  
**0800 6783 105**

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**Contact Us**  
**Mapping Enquiries:**  
 All areas 0121 623 9780  
**General Enquiries:**  
 All areas 0800 096 3080

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<p><b>Link Box</b> ●</p> <p><b>Site Location Line/Area</b>  ----- </p>	<p><b>Overhead Line</b></p> <ul style="list-style-type: none"> <li>○ PL</li> <li>○ Service</li> <li>○ LV</li> <li>○ HV (11kV)</li> <li>○ HV (33kV)</li> <li>○ HV (66kV)</li> <li>⊠ HV (132kV)</li> </ul>	<p><b>Underground Cable</b></p> <ul style="list-style-type: none"> <li>--- PL</li> <li>--- Service</li> <li>--- LV</li> <li>--- HV (11kV)</li> <li>--- HV (33kV)</li> <li>--- HV (66kV)</li> <li>--- HV (132kV)</li> </ul>	<p><b>SURF Telecoms</b></p> <p>—S—S—</p> <p>⊥ PME Earth</p> <p>—E⊥ Underground Earth</p>	<p><b>Pilot Cables</b></p> <p>—P—P—</p> <p>○ Pole Mounted Transformer</p> <p>□ Ground Mounted Transformer</p>
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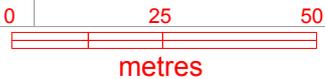
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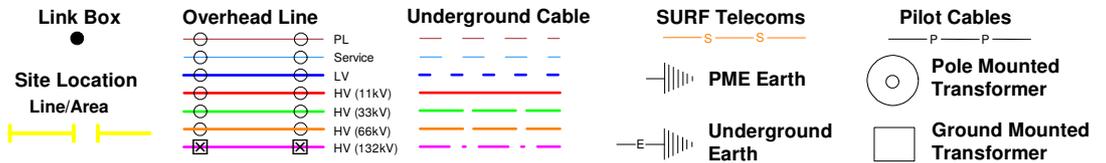
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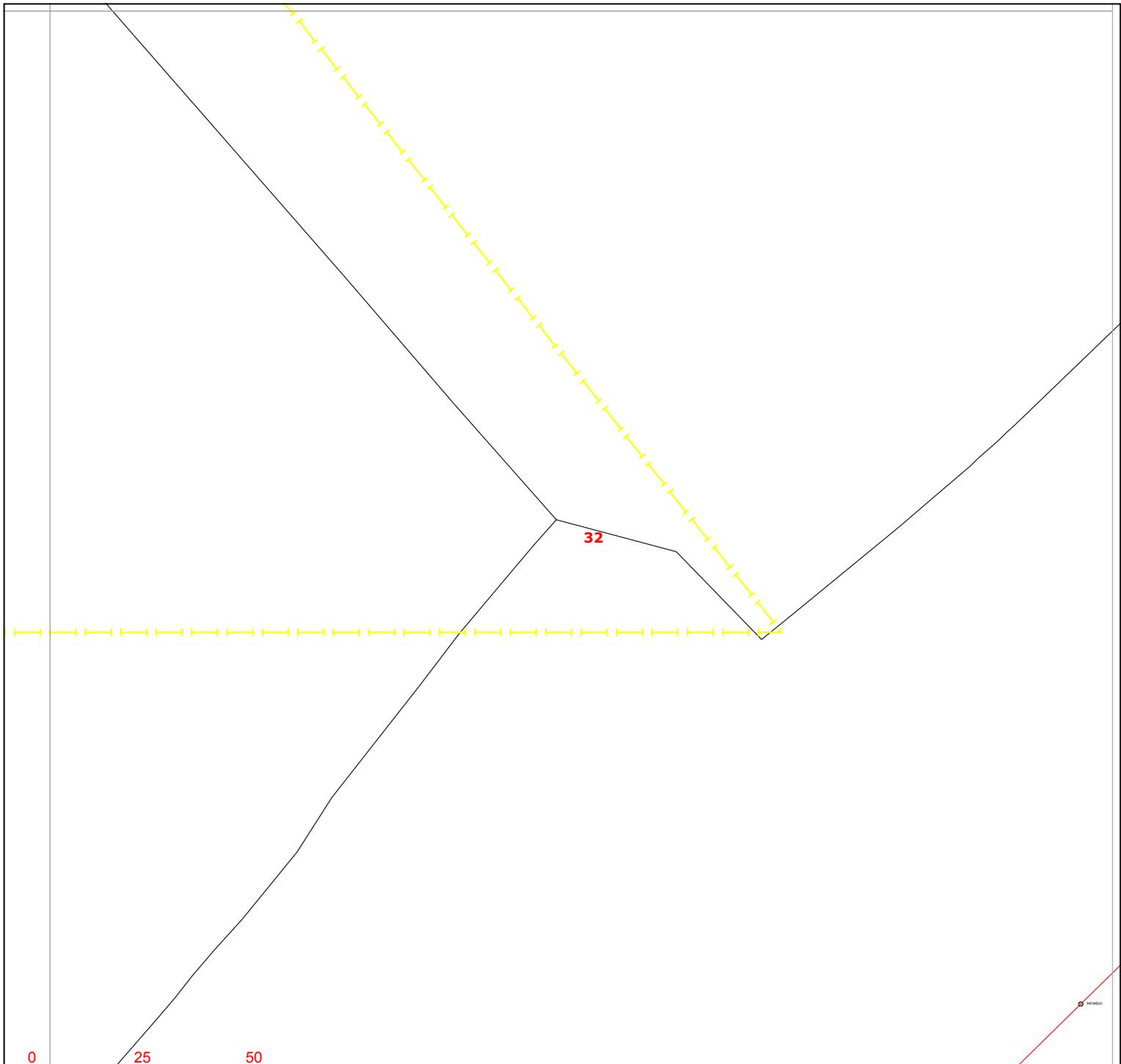


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Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ☒ HV (132kV)	---	—S—S—	—P—P—
Site Location Line/Area  -----			⏏ PME Earth —E—⏏ Underground Earth	○ Pole Mounted Transformer □ Ground Mounted Transformer

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Our Ref: 20280303      Your Ref: 89518/BRK-5

Wednesday, 21 October 2020

Chrissy Elliott  
The Hub 500 Park Avenue, Aztec West, Patchway  
Almondsbury  
Bristol  
BS32 4RZ

**Western Power Distribution,**  
Mapping Centre  
Toll End Road  
Tipton  
West Midlands  
United Kingdom  
DY4 0HH  
www.westernpower.co.uk

Dear Chrissy Elliott

Thank you for your enquiry dated Wednesday, 21 October 2020

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

Map Response  
T 0121 623 9780  
WPDMapResponse  
@westernpower.co.uk

**LinesearchbeforeUdig**  
Help Desk 0845 437 7365

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

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

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

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2015.

Safe working procedures should be defined and practiced

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

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

Western Power Distribution PLC  
South West - 02366894  
South Wales - 02366985  
East Midlands - 02366923  
West Midlands - 03600574

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

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

Registered in  
England and Wales

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

Registered Office:  
Avonbank  
Feeder Road  
Bristol  
BS2 0TB

Yours sincerely  
WPD Map Response Team

## Contact Us

### Emergency or Power Supply issues

In an emergency call 105, 24 hours a day.

### Mapping Enquiries

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

Telephone           0121 623 9780  
Email                WPDMapResponse@westernpower.co.uk

### General Enquiries

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

All areas            0800 096 3080

### LinesearchbeforeUdig

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

Telephone           0845 437 7365  
Email                enquiries@linesearchbeforeudig.co.uk  
Website             www.linesearchbeforeudig.co.uk

## Steps to help keep you safe

- **If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.**

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

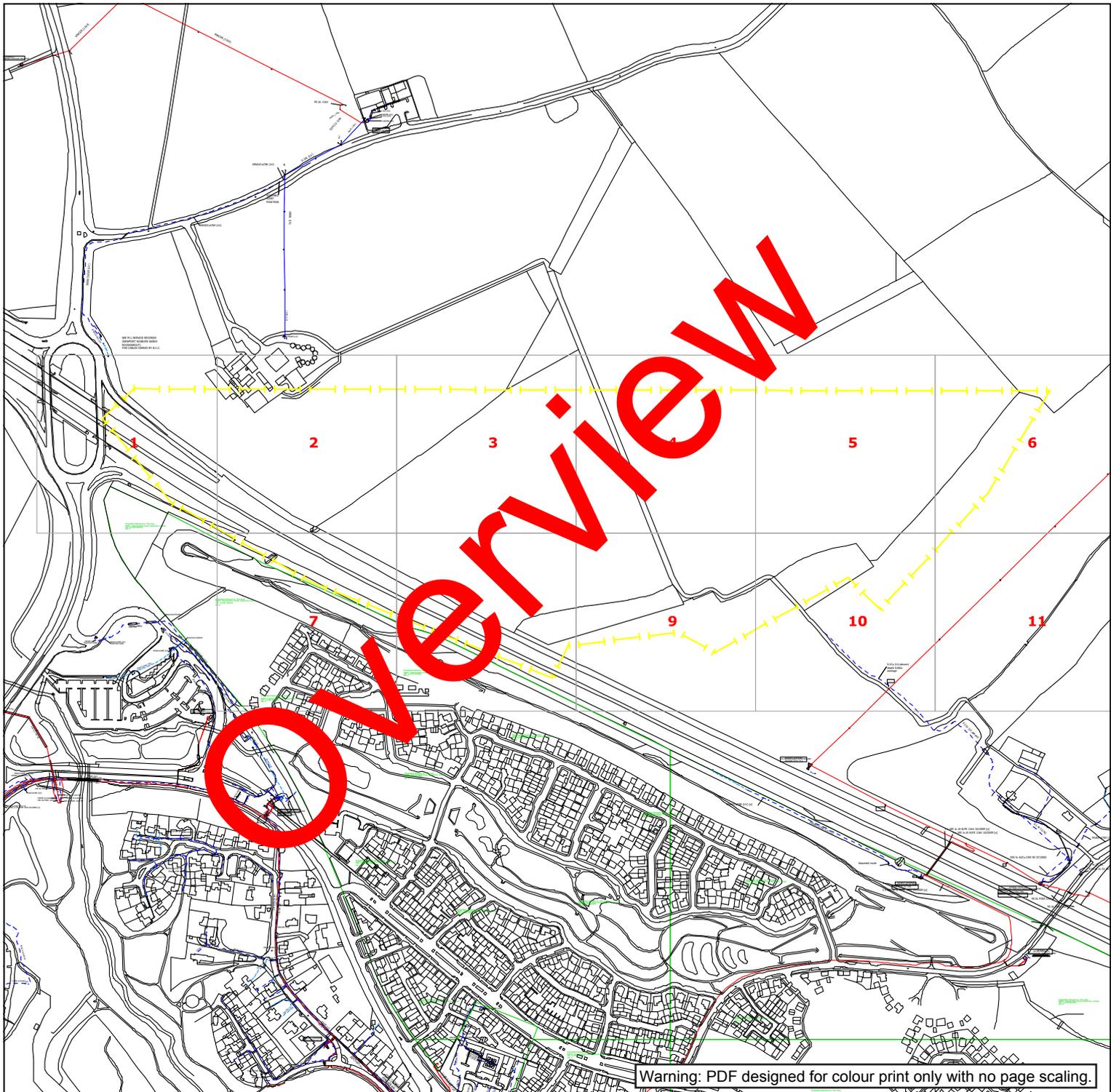
<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete MUST be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

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

### **Safety Documents:**

<https://www.westernpower.co.uk/customers-and-community/health-safety/public-safety-advice>



**WESTERN POWER DISTRIBUTION**  
*Serving the Midlands, South West and Wales*

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 All areas 0121 623 9780  
**General Enquiries:**  
 All areas 0800 096 3080

Date Requested: 21/10/2020  
 Job Reference: 20280303  
 Site Location: 489876 240674  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-5

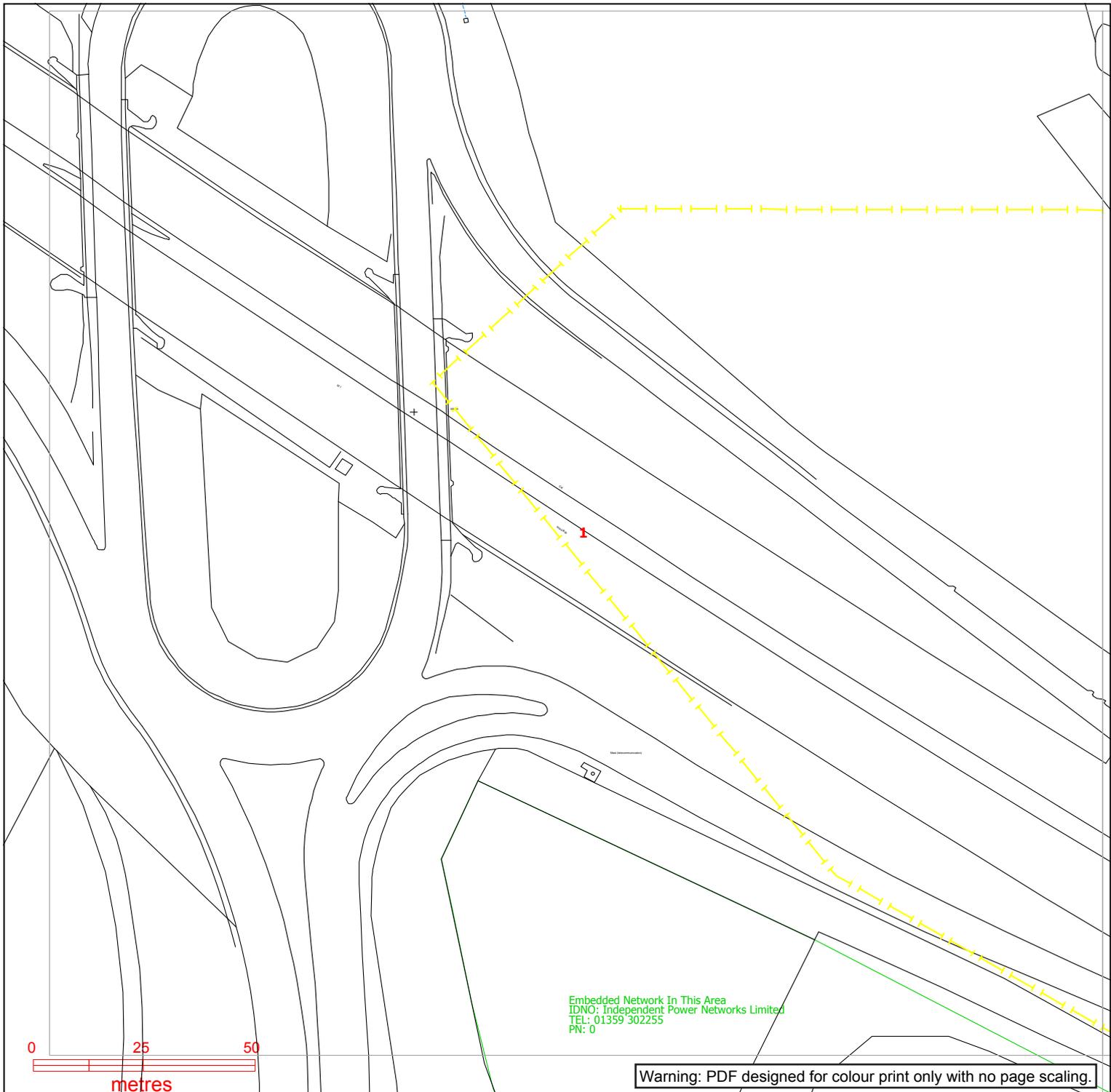
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	— — — — — — — — — —	— S — S — — S — S — — S — S — — S — S —	— P — P — — P — P — — P — P — — P — P —
Site Location Line/Area			⊥ PME Earth ⊥ E Underground Earth	○ Pole Mounted Transformer □ Ground Mounted Transformer

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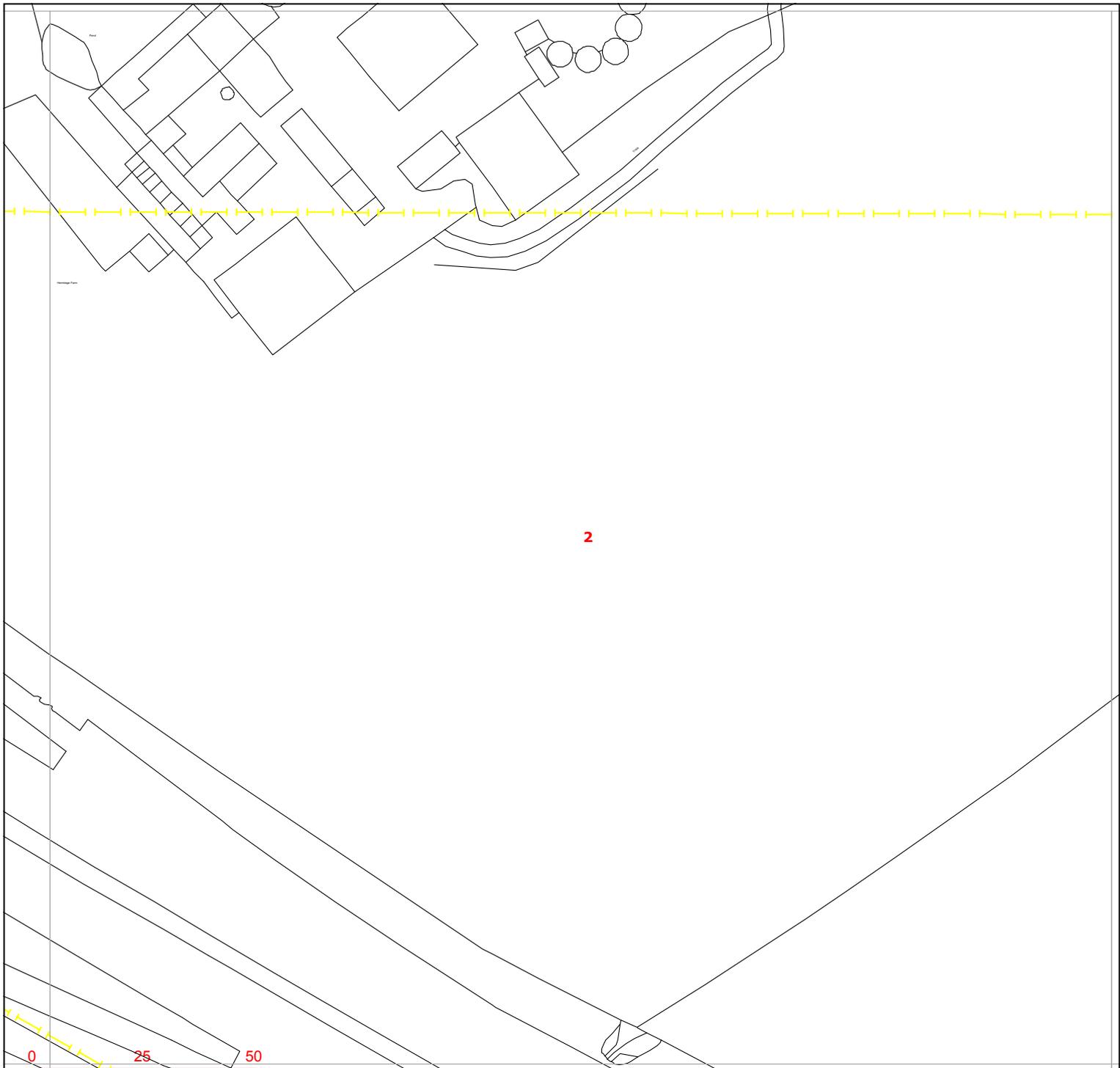
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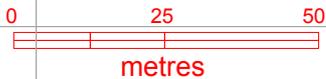
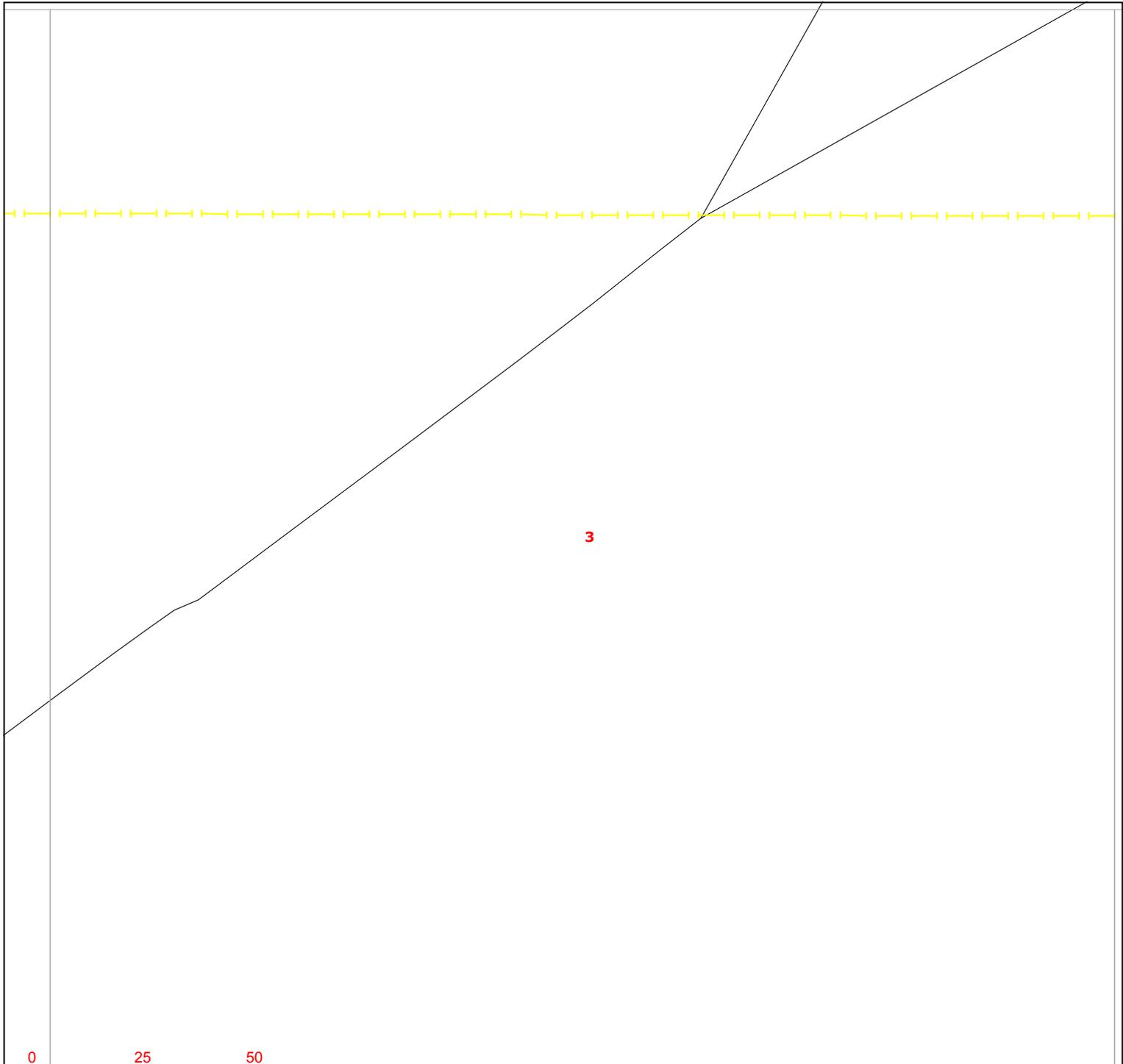
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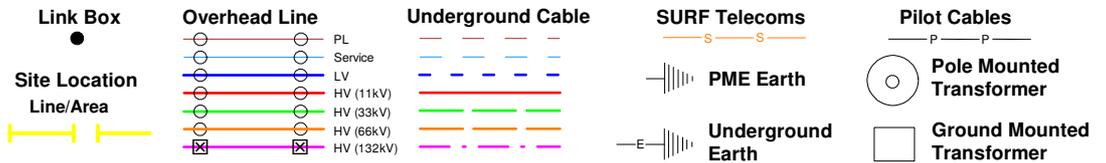
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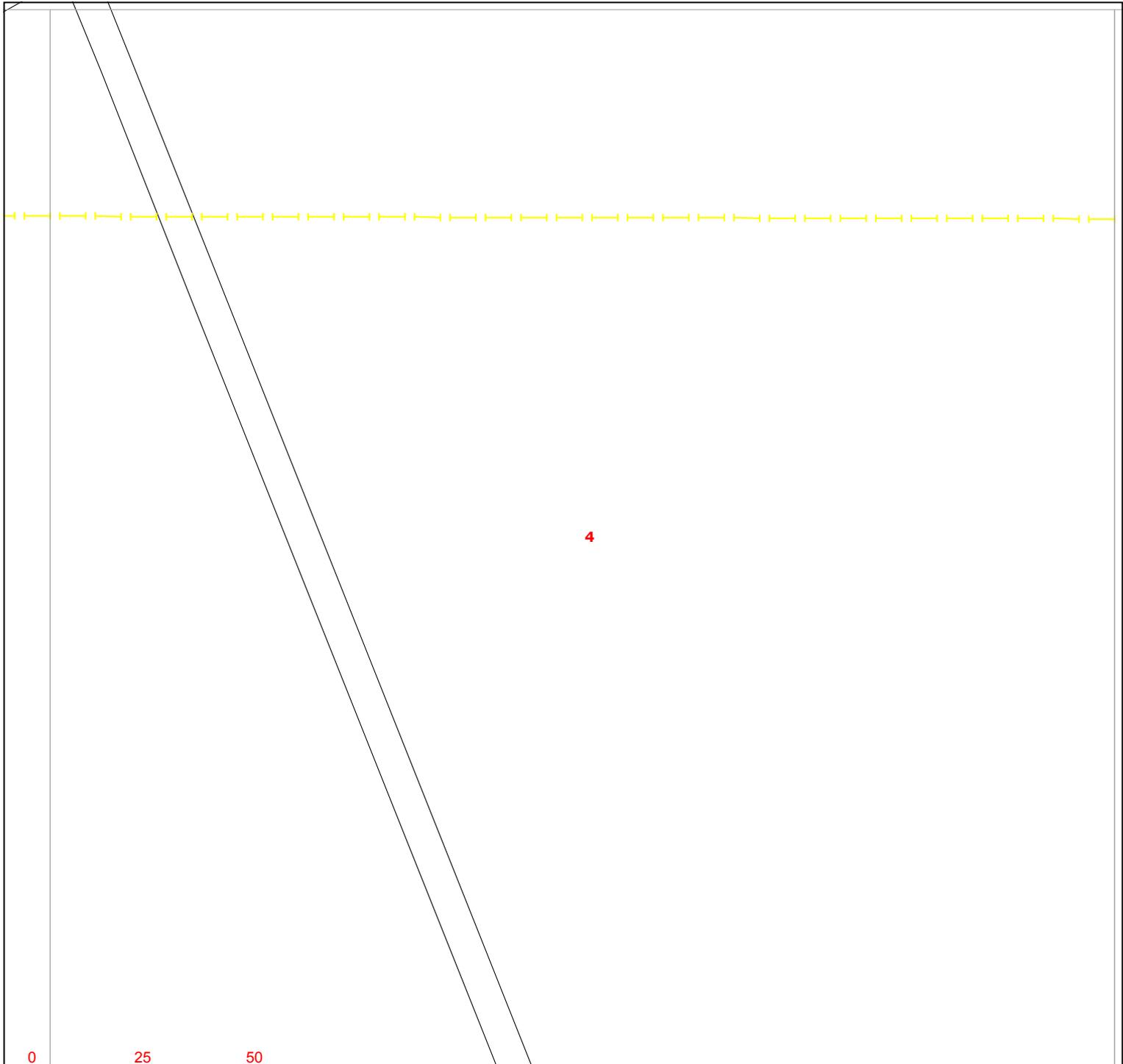


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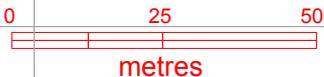
<p><b>Link Box</b> ●</p> <p><b>Site Location</b> <b>Line/Area</b></p>	<p><b>Overhead Line</b></p> <ul style="list-style-type: none"> <li> PL</li> <li> Service</li> <li> LV</li> <li> HV (11kV)</li> <li> HV (33kV)</li> <li> HV (66kV)</li> <li> HV (132kV)</li> </ul>	<p><b>Underground Cable</b></p> <ul style="list-style-type: none"> <li> PL</li> <li> Service</li> <li> LV</li> <li> HV (11kV)</li> <li> HV (33kV)</li> <li> HV (66kV)</li> <li> HV (132kV)</li> </ul>	<p><b>SURF Telecoms</b></p> <ul style="list-style-type: none"> <li> SURF</li> <li> <b>PME Earth</b></li> <li> <b>Underground Earth</b></li> </ul>	<p><b>Pilot Cables</b></p> <ul style="list-style-type: none"> <li> Pilot Cables</li> <li> <b>Pole Mounted Transformer</b></li> <li> <b>Ground Mounted Transformer</b></li> </ul>
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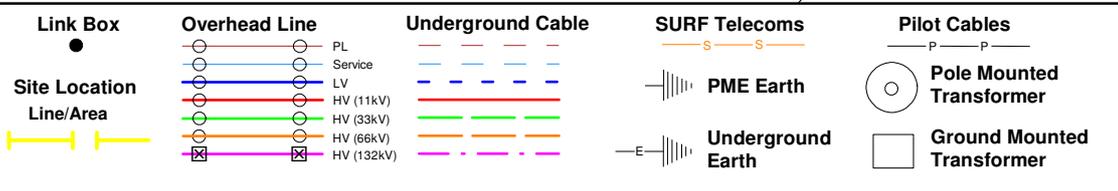
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**General Enquiries:**  
 All areas 0800 096 3080

Date Requested: 21/10/2020  
 Job Reference: 20280303  
 Site Location: 489876 240674  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 89518/BRK-5

Exact Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

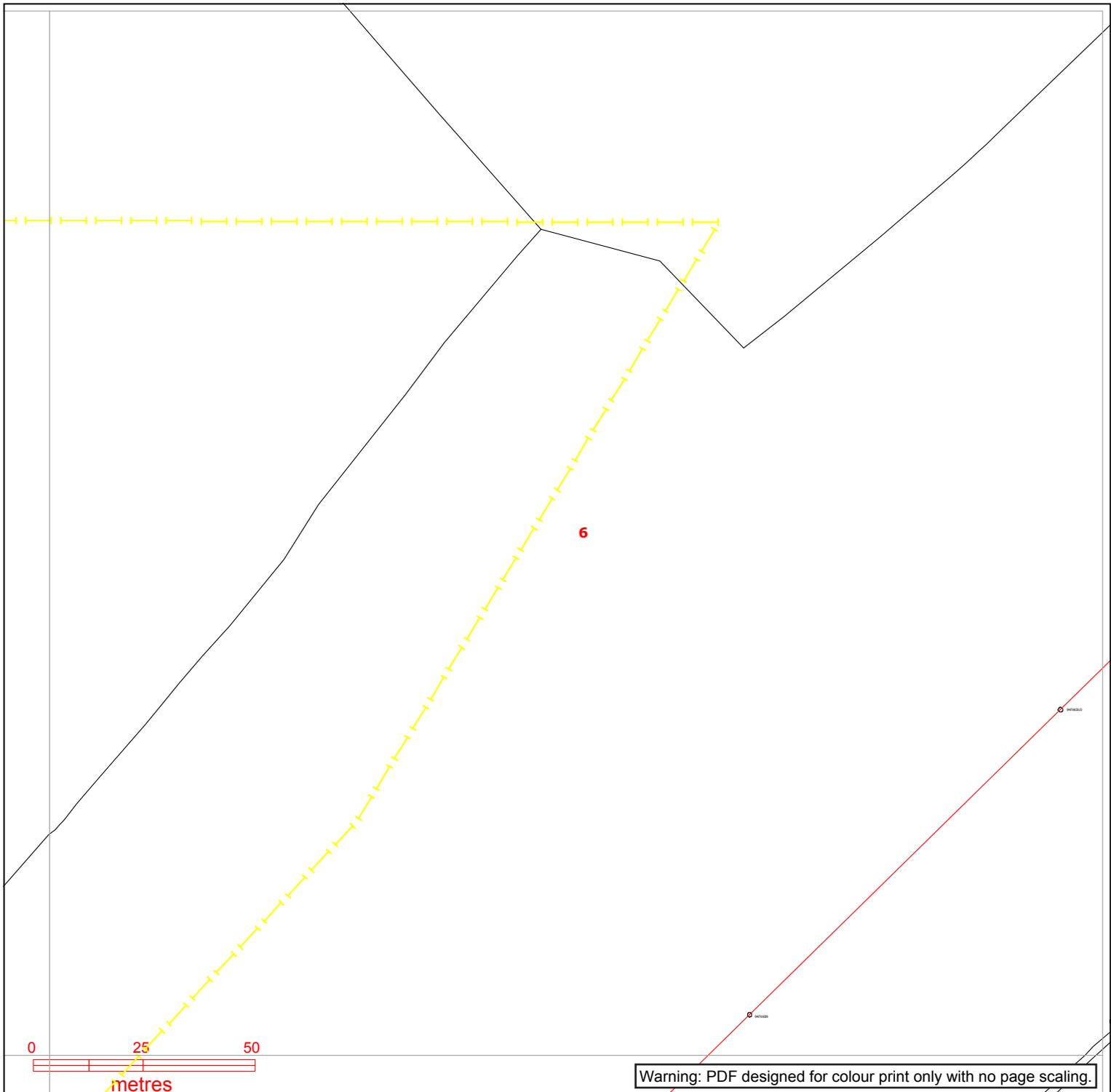


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**Link Box**



**Site Location  
Line/Area**



**Overhead Line**

- PL
- Service
- LV
- HV (11kV)
- HV (33kV)
- HV (66kV)
- HV (132kV)

**Underground Cable**

- PL
- Service
- LV
- HV (11kV)
- HV (33kV)
- HV (66kV)
- HV (132kV)

**SURF Telecoms**

- SURF
- PME Earth
- Underground Earth

**Pilot Cables**

- Pilot Cables
- Pole Mounted Transformer
- Ground Mounted Transformer

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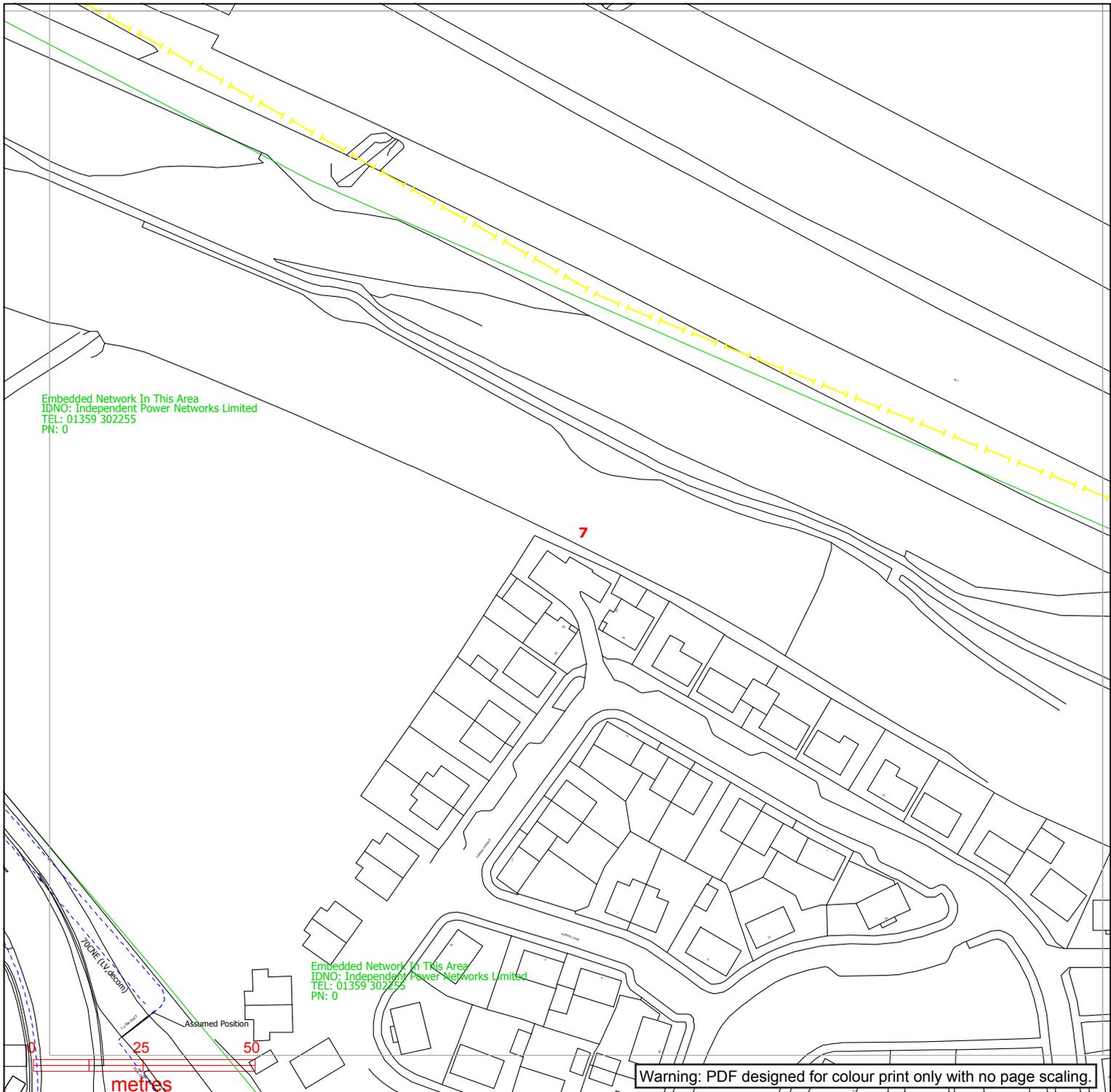
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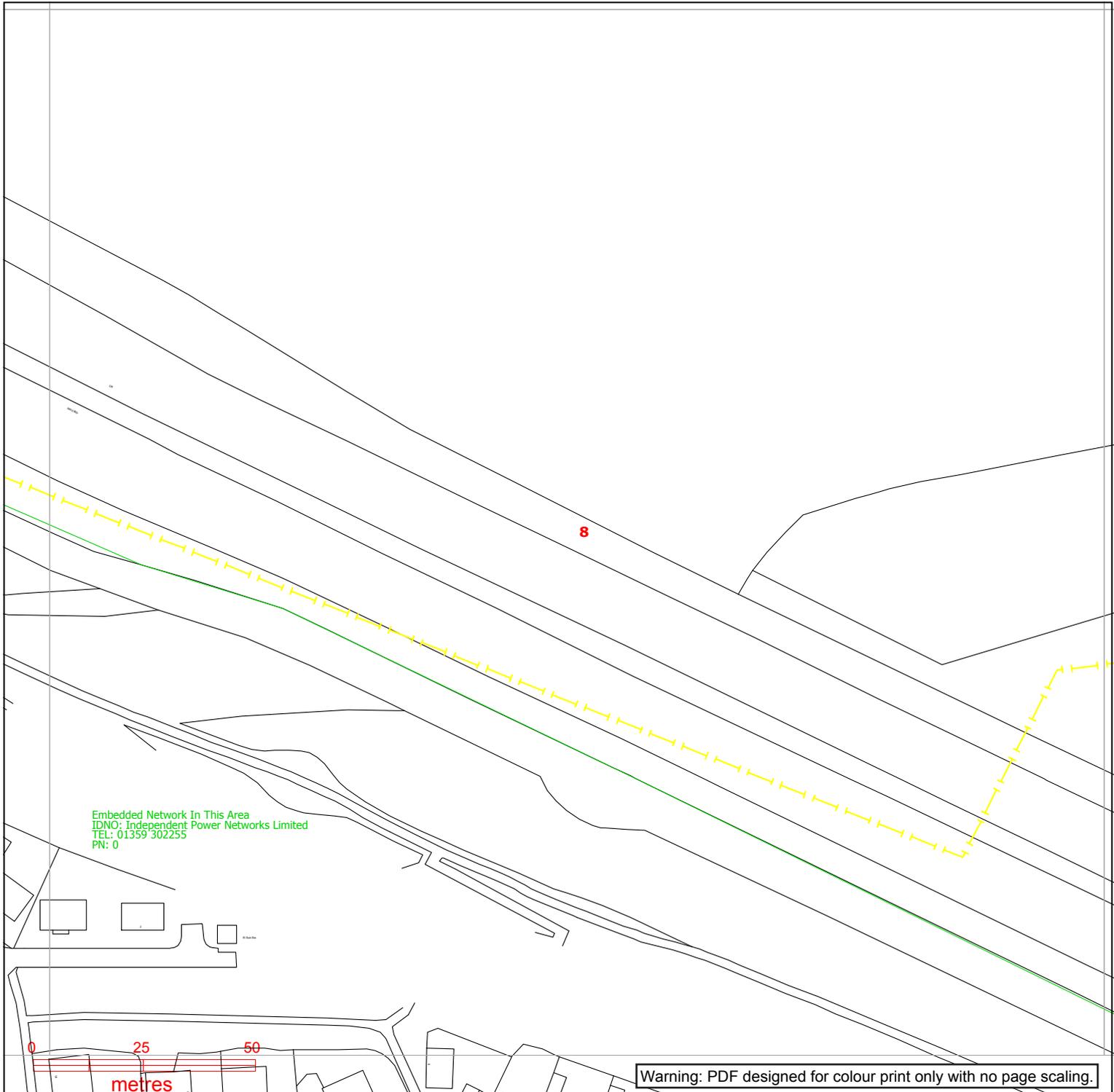
<b>Link Box</b> ●	<b>Overhead Line</b> ○ — ○ PL ○ — ○ Service ○ — ○ LV ○ — ○ HV (11kV) ○ — ○ HV (33kV) ○ — ○ HV (66kV) ⊠ — ⊠ HV (132kV)	<b>Underground Cable</b> — — — — — — — — — —	<b>SURF Telecoms</b> — S — S — <b>PME Earth</b> — E — <b>Underground Earth</b>	<b>Pilot Cables</b> — P — P — <b>Pole Mounted Transformer</b> <b>Ground Mounted Transformer</b>
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Embedded Network In This Area  
 IDNO: Independent Power Networks Limited  
 TEL: 01359 302255  
 PN: 0

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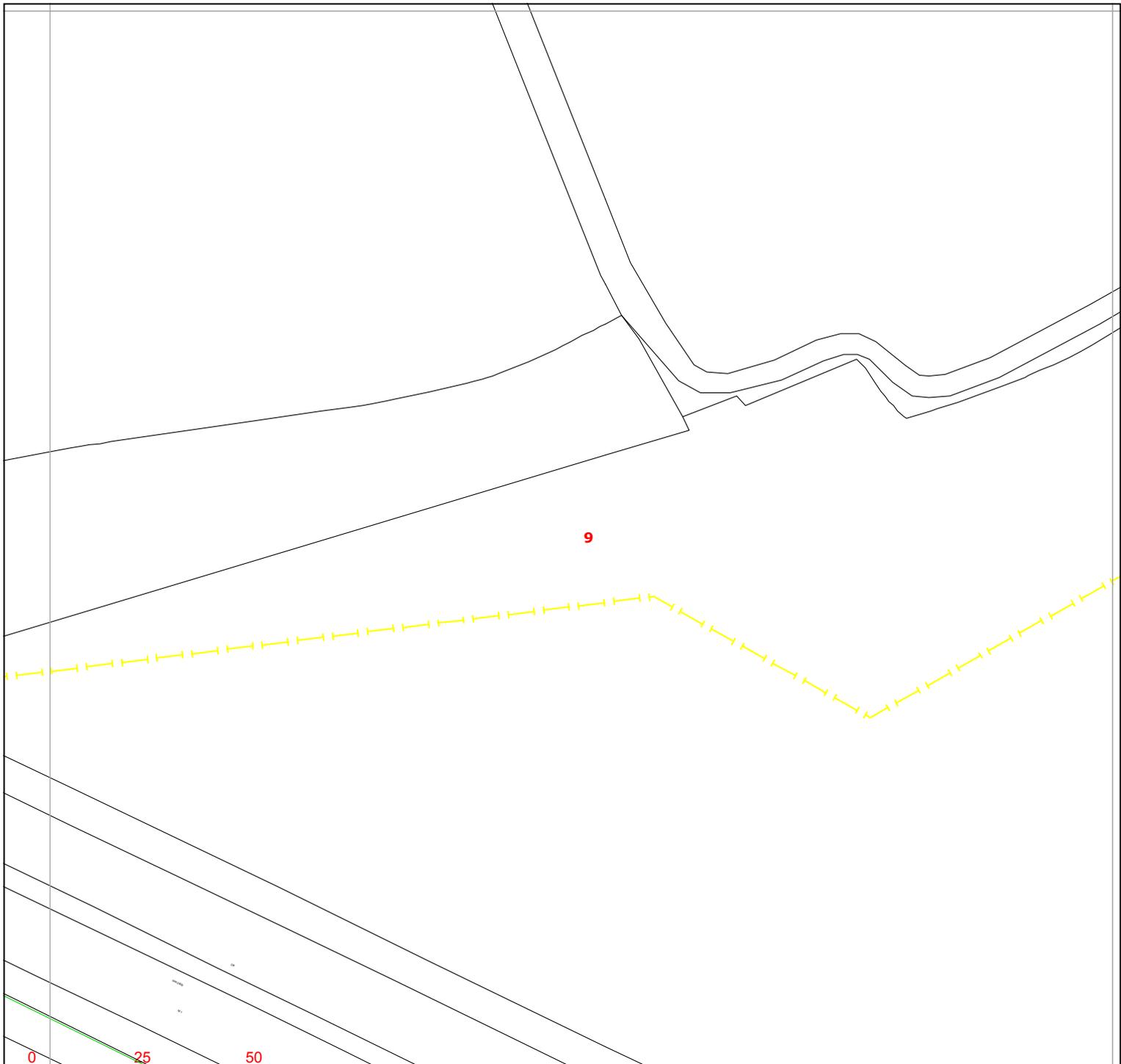
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ⊠ HV (132kV)	— —	— S — S —  PME Earth  Underground Earth	— P — P —  Pole Mounted Transformer  Ground Mounted Transformer

**IMPORTANT NOTICES**

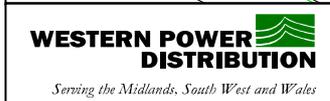
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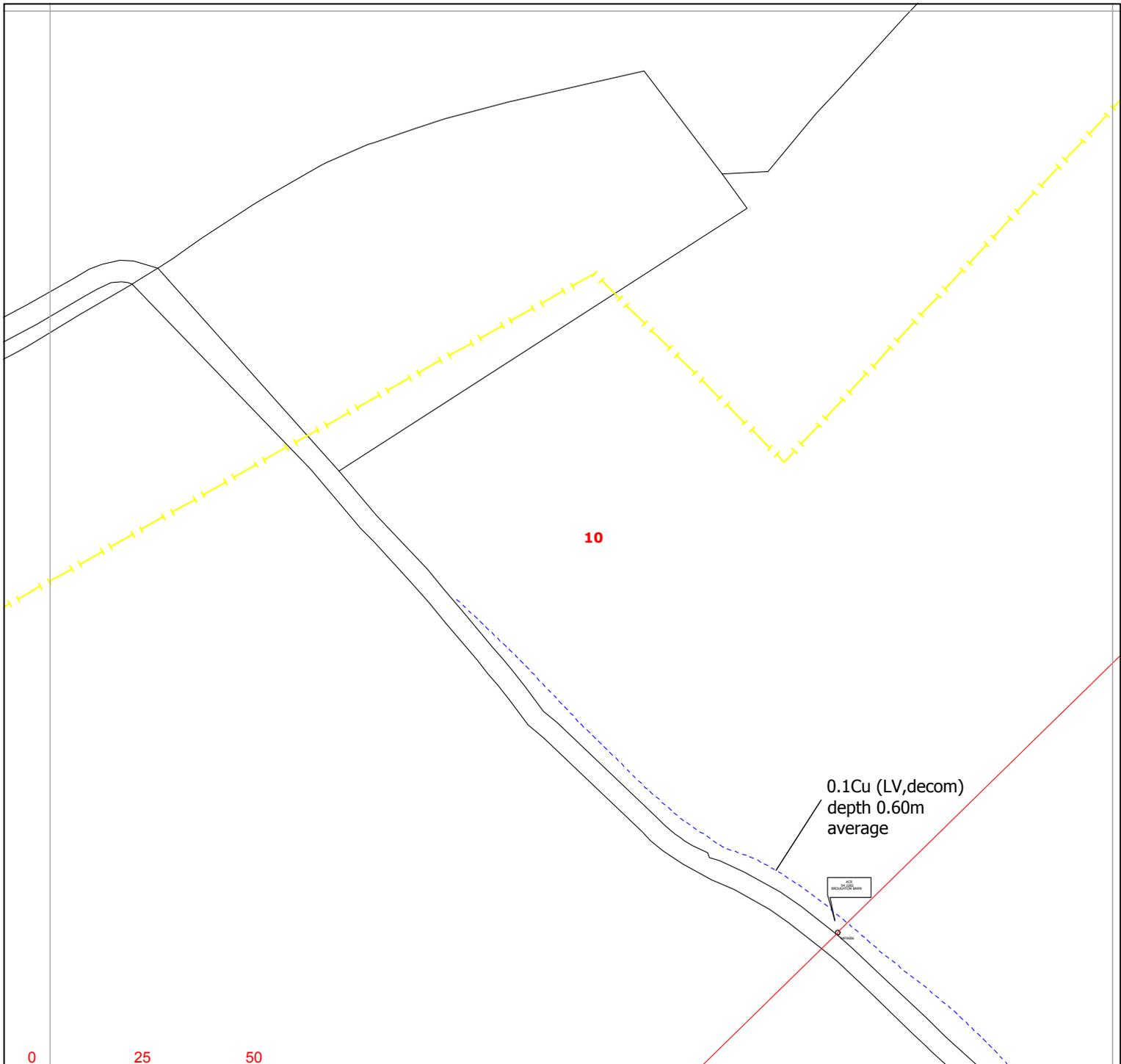
<b>Link Box</b> ●	<b>Overhead Line</b> ○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ☒ HV (132kV)	<b>Underground Cable</b> - - - - - - - - - -	<b>SURF Telecoms</b> -S-S- PME Earth Underground Earth	<b>Pilot Cables</b> -P-P- Pole Mounted Transformer Ground Mounted Transformer
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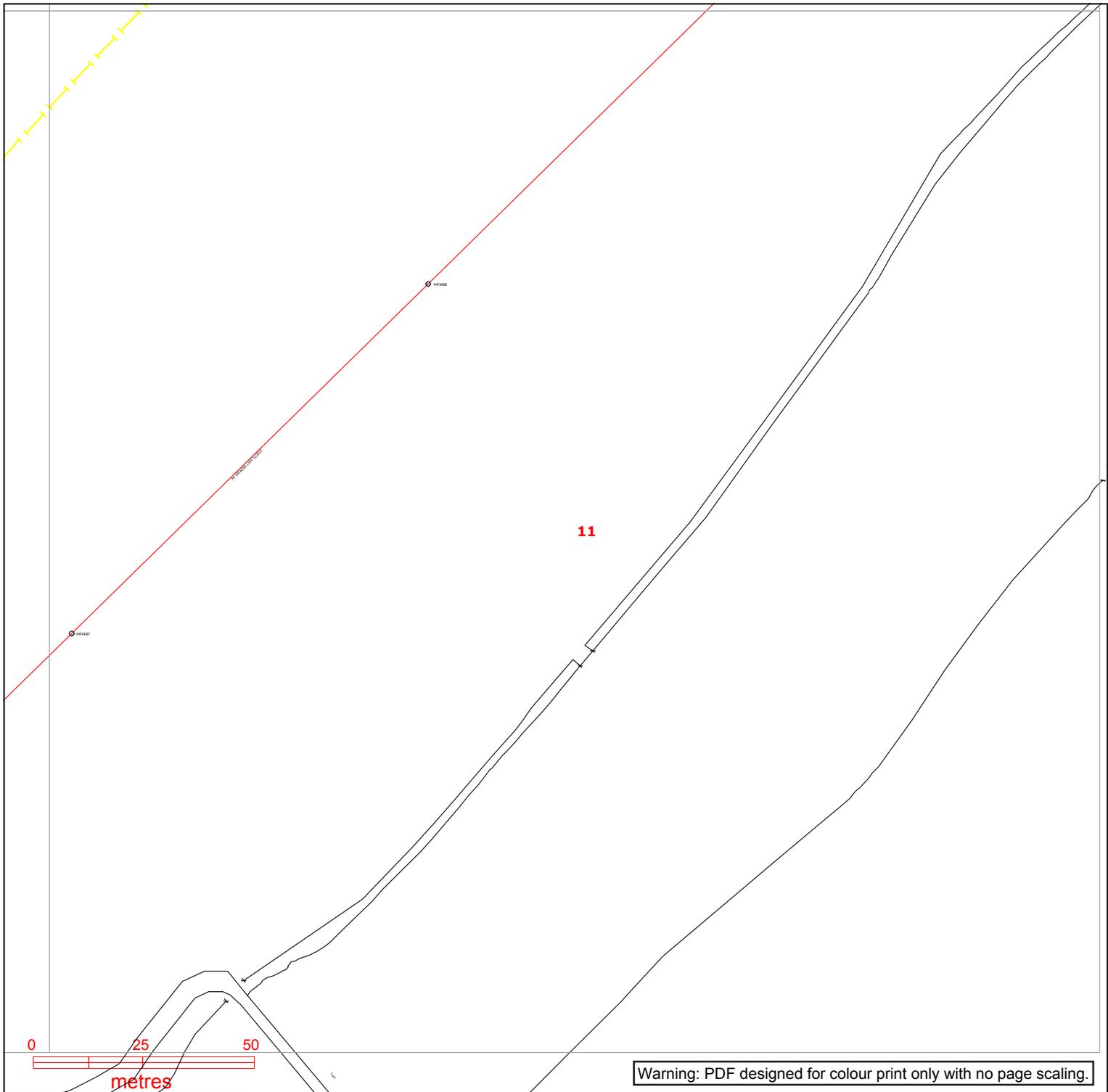
<b>Link Box</b> ●	<b>Overhead Line</b> ○—○ PL ○—○ Service ○—○ LV ○—○ HV (11kV) ○—○ HV (33kV) ○—○ HV (66kV) ⊠—⊠ HV (132kV)	<b>Underground Cable</b> -	<b>SURF Telecoms</b> —S—S—  PME Earth  Underground Earth	<b>Pilot Cables</b> —P—P—  Pole Mounted Transformer  Ground Mounted Transformer
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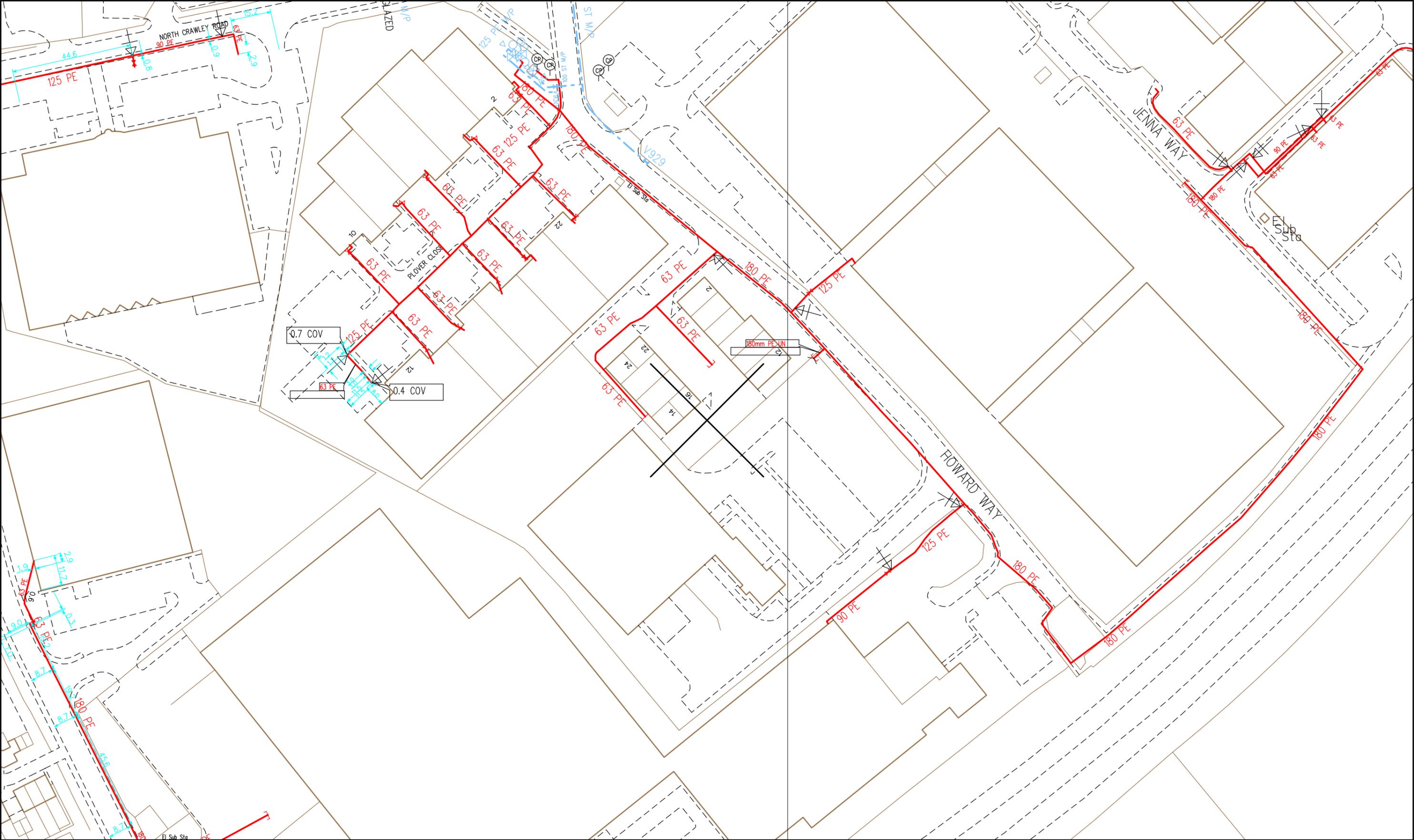
Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●				
<b>Site Location</b> 				

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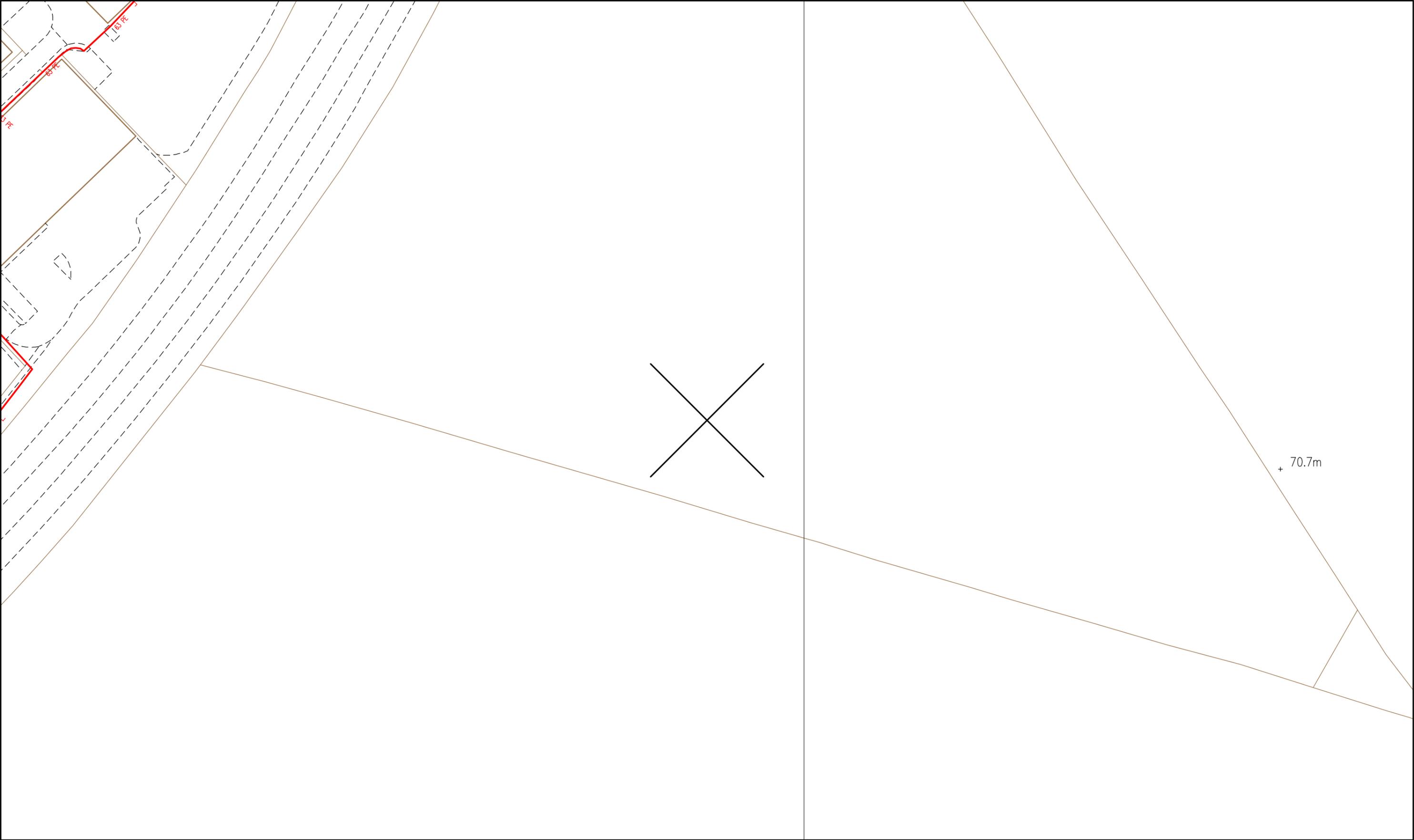
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SCALE: 1 : 1250	LP MAINS MP MAINS IP MAINS LHP MAINS	<p>This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.</p>	MAPS Viewer Version 5.8.0.1	
USER ID: MLOH2099			<div style="border: 2px solid red; padding: 10px; display: inline-block;"> <p><b>CHECKED</b></p> </div>	Local Machine
DATE: 22/10/2020				<p>This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.</p>
EXTRACT DATE: 10/06/2020				
MAP REF: SP8843				
CENTRE: 488970, 243192	<p>Some examples of Plant Items:</p> Valves Depth of Cover Syphons Diameter Change Material Change Out of Standard Service			



SCALE: 1 : 1250  
 USER ID: MLOH2099  
 DATE: 22/10/2020  
 EXTRACT DATE: 10/06/2020  
 MAP REF: SP8943  
 CENTRE: 489464, 243192

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LHP MAINS	

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Some examples of Plant Items:

Valve	Depth of Cover	Syphon	Diameter Change	Material Change	Out of Standard Service

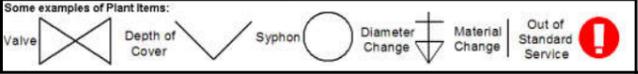


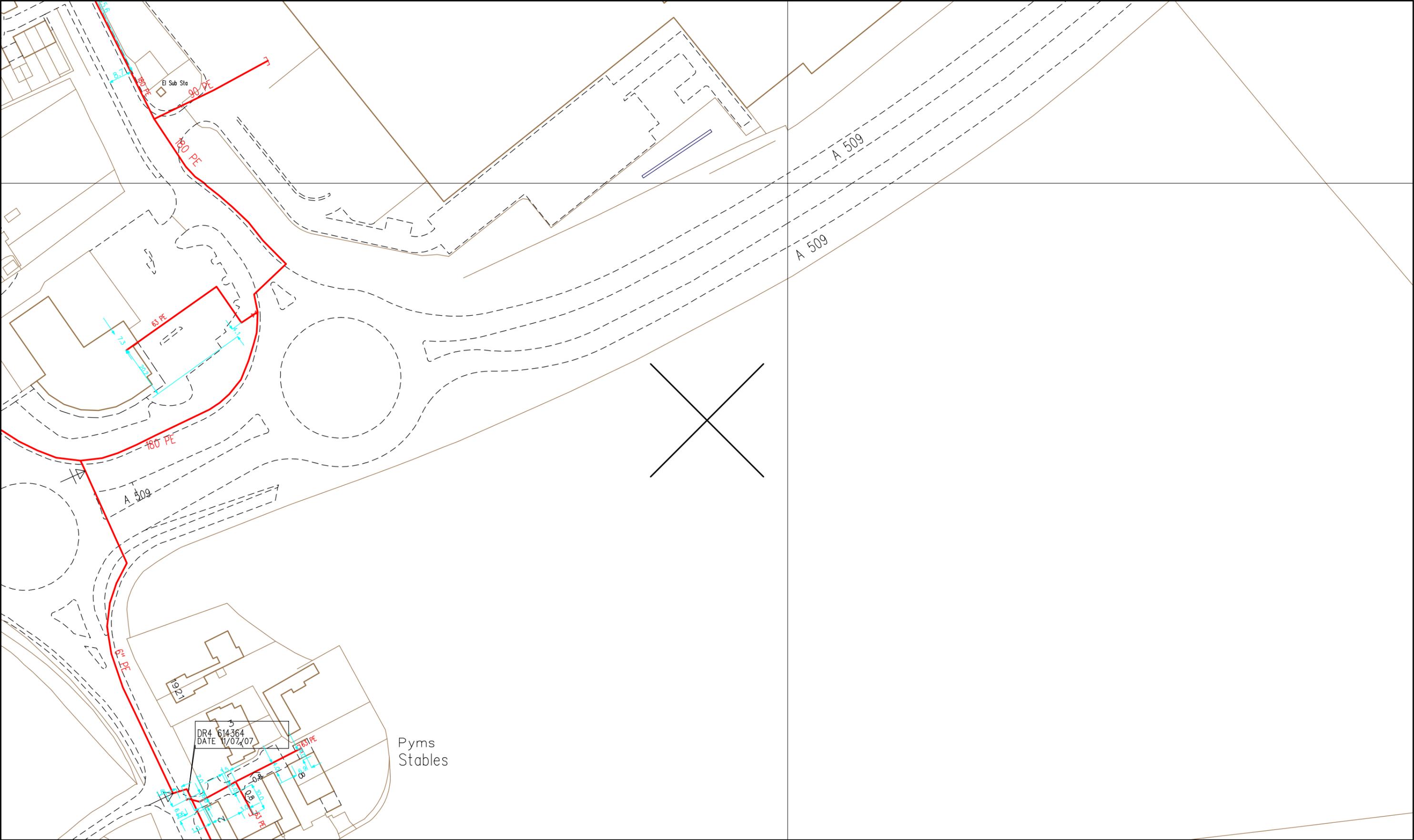
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 DATE: 22/10/2020  
 EXTRACT DATE: 10/06/2020  
 MAP REF: SP8842  
 CENTRE: 488477, 242912

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	

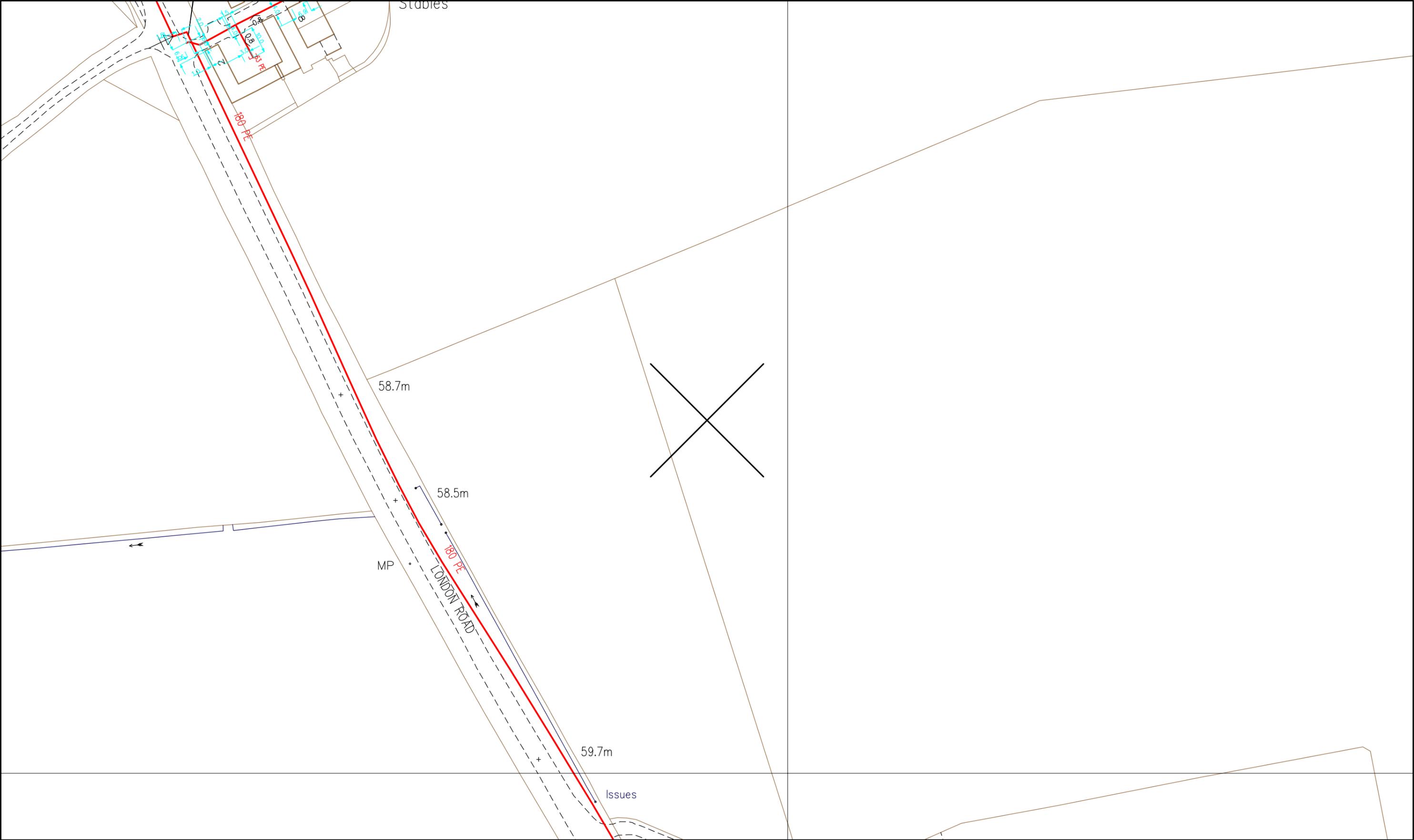
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USER ID: MLOH2099				Local Machine
DATE: 22/10/2020				
EXTRACT DATE: 10/06/2020				
MAP REF: SP8842				
CENTRE: 488970, 242912	Some examples of Plant Items:  Valve  Depth of Cover  Syphon  Diameter Change  Material Change  Out of Standard Service		This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.	



<p>SCALE: 1 : 1250</p> <p>USER ID: MLOH2099</p> <p>DATE: 22/10/2020</p> <p>EXTRACT DATE: 10/06/2020</p> <p>MAP REF: SP8842</p> <p>CENTRE: 488970, 242631</p>	<p>LP MAINS </p> <p>MP MAINS </p> <p>IP MAINS </p> <p>LHP MAINS </p>	<p>This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.</p>	<p>MAPS Viewer Version 5.8.0.1</p> <p>Local Machine</p>
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 MAP REF: SP8842  
 CENTRE: 488970, 242351

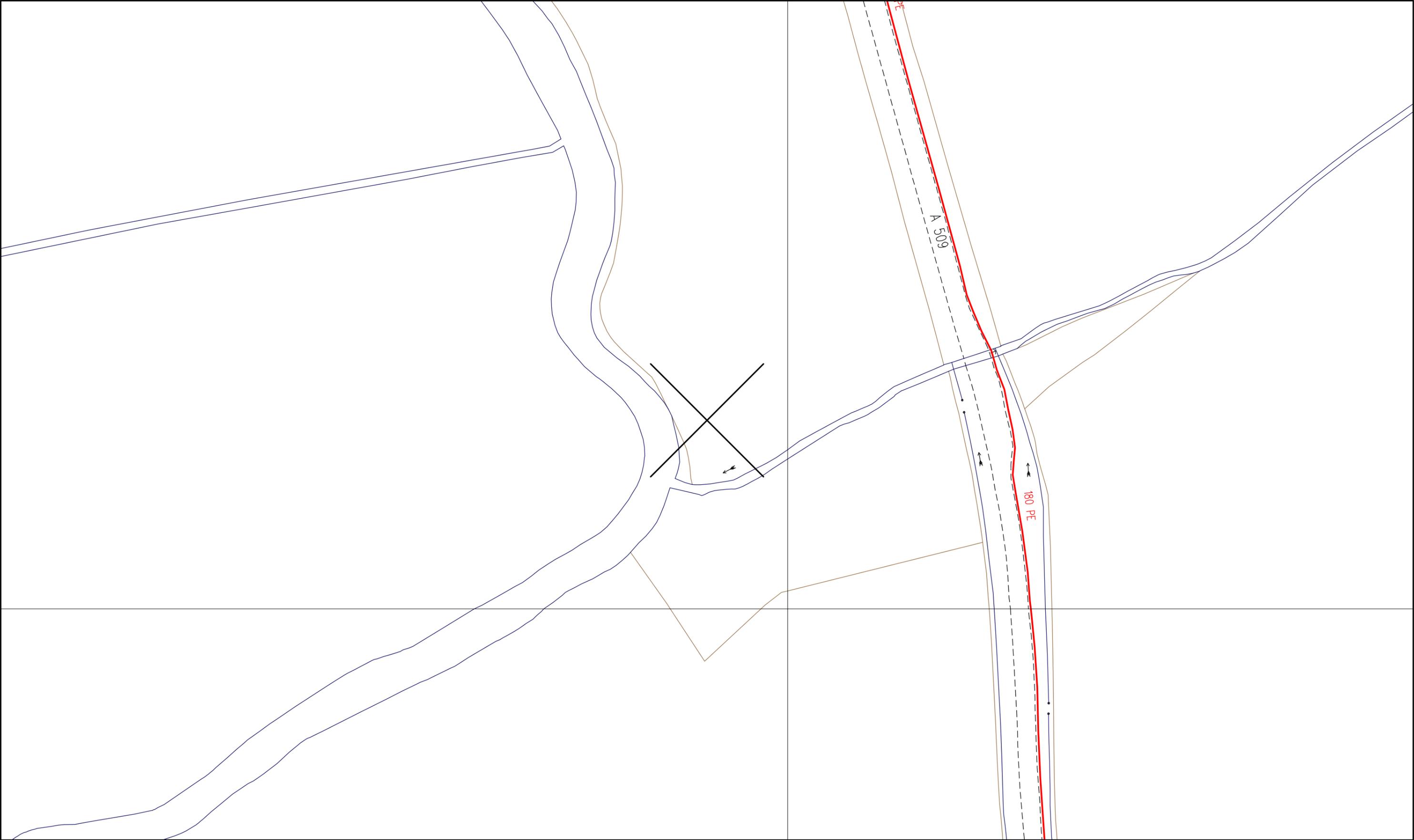
LP MAINS	
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IP MAINS	
LHP MAINS	

This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.

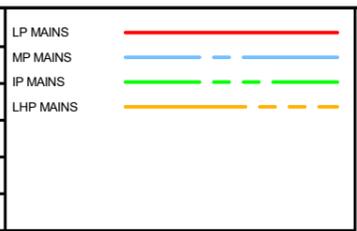
MAPS Viewer Version 5.8.0.1  
 Local Machine  
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Some examples of Plant Items:

Valve	Depth of Cover	Syphon	Diameter Change	Material Change	Out of Standard Service



SCALE: 1 : 1250  
 USER ID: MLOH2099  
 DATE: 22/10/2020  
 EXTRACT DATE: 10/06/2020  
 MAP REF: SP8842  
 CENTRE: 488970, 242070



This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.

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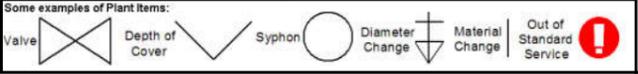


SCALE: 1 : 1250  
 USER ID: MLOH2099  
 DATE: 22/10/2020  
 EXTRACT DATE: 10/06/2020  
 MAP REF: SP8841  
 CENTRE: 488970, 241789

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	

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Potable Water		Fitting	
Raw Water		Hydrant	
Decommissioned Water			

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RIS18





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This plan is provided by Anglian Water pursuant to obligations under the Water Industry Act 1981 sections 198 or 199. It must be used in conjunction with any health and safety notices issued. The information on this plan is based on data currently reported but position must be regarded as approximate. Service pipes, private drains and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan. Details concerning any works. The actual position of all apparatus MUST be established by field notes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy or omission, including the fact that the plan is not a true copy of the original plan. The location of any water main (discharge pipe, sewer or disposal main or any form of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (© Crown copyright and database rights 2020 Ordnance Survey 100022432). This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

Potable Water		Fitting	
Raw Water		Hydrant	
Decommissioned Water			

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Potable Water		Fitting	
Raw Water		Hydrant	
Decommissioned Water			

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Potable Water		Fitting	
Raw Water		Hydrant	
Decommissioned Water			

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0m 250m 500m 750m 1000m 1250m 1500m 1750m 2000m 2250m 2500m 2750m 3000m 3250m 3500m 3750m 4000m 4250m 4500m 4750m 5000m 5250m 5500m 5750m 6000m 6250m 6500m 6750m 7000m 7250m 7500m 7750m 8000m 8250m 8500m 8750m 9000m 9250m 9500m 9750m 10000m

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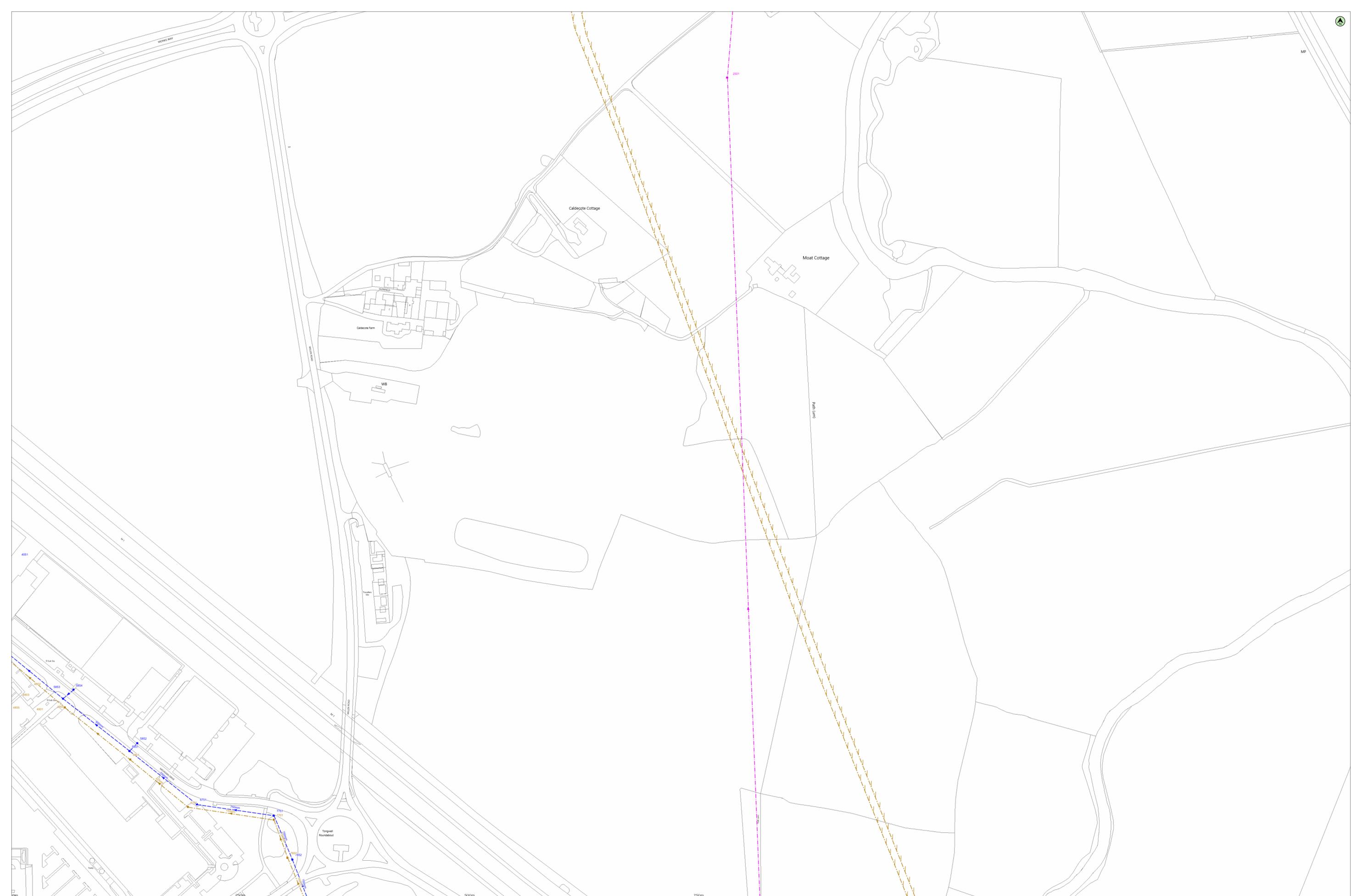
Potable Water		Fitting	
Raw Water		Hydrant	
Decommissioned Water			

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 Date: 28/10/20  
 Scale: 1:1250  
 Map Centre: 488172.24135  
 Data updated: 30/09/20  
 Our Ref: 452497 - 4  
 Wastewater Plan A1

- |                      |                |         |                                |
|----------------------|----------------|---------|--------------------------------|
| Foul Sewer           | Surface Sewer  | Outfall | Sewage Treatment Works         |
| Combined Sewer       | Final Effluent | Inlet   | Public Pumping Station         |
| Rising Main          | Private Sewer  | Manhole | Decommissioned Pumping Station |
| Decommissioned Sewer |                |         | Private Sewer                  |

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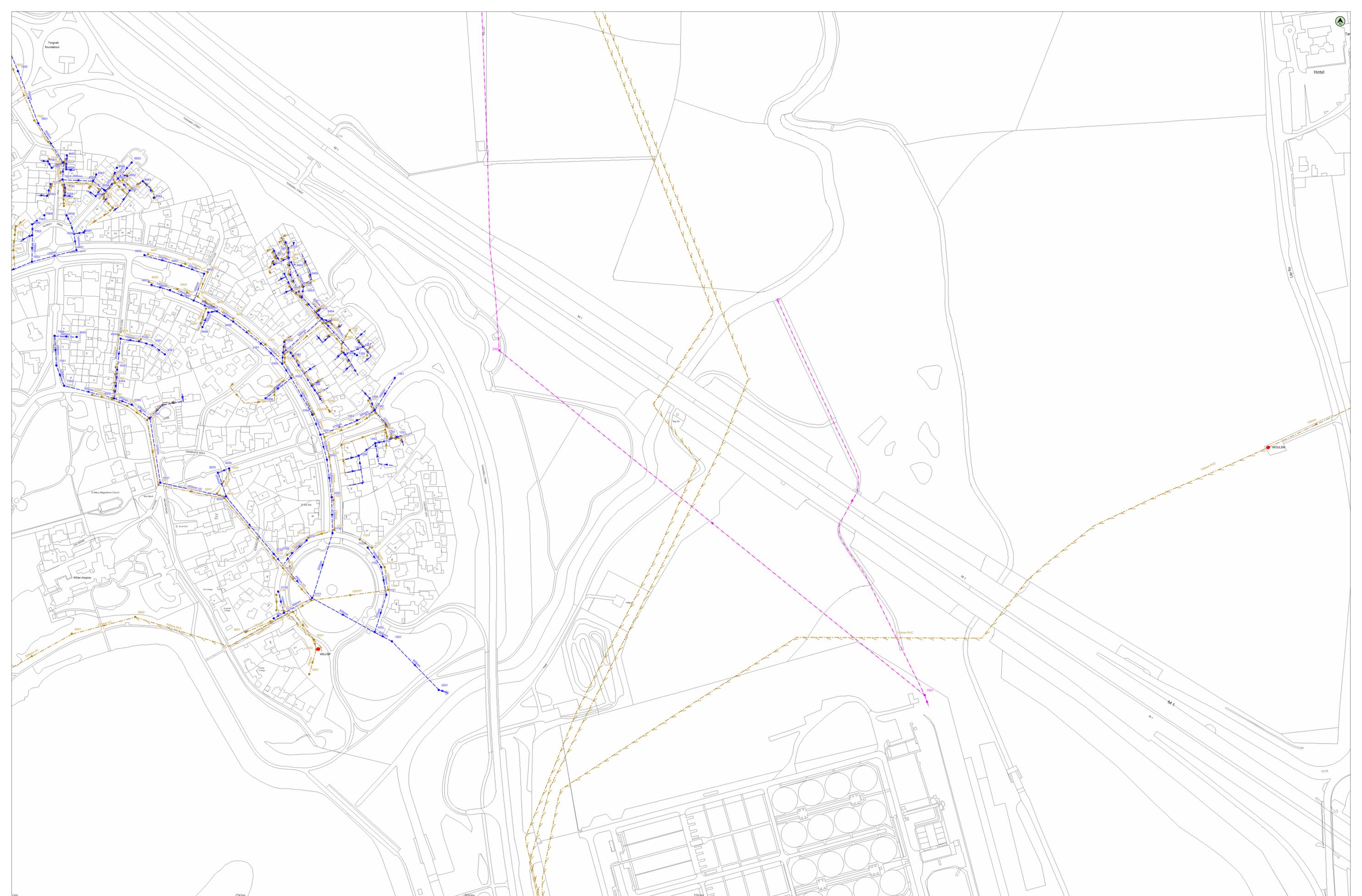
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This plan is provided by Anglian Water pursuant to obligations under the Water Industry Act 1989 sections 198 or 199. It must be used in conjunction with any other plans available. The information on this plan is based on data currently reported for position must be regarded as approximate. For the plans, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the site shown on the plan (which may include carrying out any works). The actual position of all apparatus MUST be established by field notes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy or omission, including the failure to accurately record or report at all, the location of any water main, discharge pipe, sewer or disposal main or any form of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (© Crown copyright and database rights 2020 Ordnance Survey, 10002432). This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

Date: 28/10/20	Scale: 1:1250	Map Centre: 49488.241939	Data updated: 30/09/20	Our Ref: 452497 - 6	Wastewater Plan A0
<b>Foul Sewer</b> Surface Sewer Combined Sewer Final Effluent Rising Main Private Sewer Decommissioned Sewer	      	Outfall Inlet Manhole Sewage Treatment Works Public Pumping Station Decommissioned Pumping Station *Colour denotes effluent type	  	Payments.utilitysolutions@atkinsglobal.com R9518	







Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
2300	488273	241389	E	60	51.09	8.91
7001	488137	241324	S	64.96	63.8	1.16
0001	488066	241036	F	58.5	56.84	1.66
0002	488073	241063	F	58.7	54.74	3.96
0003	488071	241074	F	58.8	54.89	3.91
0101	488048	241104	F	59.4	55.14	4.26
0102	488068	241117	F	59.7	55.34	4.36
0103	488027	241163	F	62.1	-	-
0104	488048	241140	F	-	-	-
0105	488030	241106	F	-	-	-
0106	488030	241123	F	-	-	-
0107	488093	241193	F	-	-	-
0108	488065	241185	F	-	-	-
0109	488042	241166	F	-	-	-
0201	488082	241295	F	-	-	-
0202	488088	241273	F	-	-	-
0203	488092	241226	F	-	-	-
0301	488018	241396	F	-	-	-
0302	488039	241376	F	66.53	61.83	4.7
0303	488047	241363	F	66.64	61.23	5.41
0304	488071	241320	F	-	-	-
0305	488039	241385	F	66.39	62.13	4.26
0306	488028	241348	F	67.15	64.8	2.35
0307	488088	241323	F	-	-	-
0308	488086	241327	F	-	-	-
0309	488069	241352	F	-	-	-
0310	488052	241378	F	-	-	-
0401	488042	241492	F	65.64	64	1.64
0402	488043	241472	F	65.84	63.63	2.21
0403	488056	241448	F	65.64	63.38	2.26
0404	488080	241419	F	65.38	62.97	2.41
0405	488067	241464	F	-	-	-
0406	488040	241400	F	-	-	-
0407	488086	241404	F	-	-	-
0408	488089	241421	F	-	-	-
0409	488077	241435	F	-	-	-
0410	488047	241454	F	-	-	-
0411	488058	241459	F	-	-	-
0412	488055	241485	F	-	-	-
0413	488028	241491	F	-	-	-
0414	488042	241500	F	-	-	-
1101	488121	241183	F	-	-	-
1102	488134	241174	F	-	-	-
1103	488148	241153	F	-	-	-
1104	488152	241128	F	-	-	-
1201	488150	241293	F	65.43	62.37	3.06
1202	488101	241287	F	-	-	-
1203	488151	241295	F	-	-	-
1204	488165	241294	F	-	-	-
1301	488138	241321	F	64.96	62.98	1.98
1302	488118	241309	F	-	-	-
1303	488101	241396	F	65.68	63.47	2.21
1304	488149	241303	F	-	-	-
1305	488130	241335	F	-	-	-
1306	488101	241388	F	-	-	-
1400	488110	241411	F	-	-	-
7403	487743	241499	F	-	-	-
7501	487794	241573	F	66.75	63.41	3.34
7502	487795	241595	F	66.64	63.12	3.52
7506	487798	241554	F	-	-	-
7507	487798	241563	F	-	-	-
7508	487798	241568	F	-	-	-
7509	487798	241547	F	-	-	-
7510	487800	241594	F	-	-	-
7511	487785	241570	F	-	-	-
7512	487782	241598	F	-	-	-
7513	487745	241524	F	-	-	-
7514	487744	241516	F	-	-	-
7601	487766	241640	F	67.37	-	-
7602	487743	241696	F	67.26	61.95	5.31
8001	487807	241080	F	61.1	59.96	1.14
8002	487876	241099	F	61.27	60.39	0.88
8301	487855	241371	F	67.01	64.12	2.89
8302	487854	241354	F	66.89	63.86	3.03
8303	487851	241336	F	66.65	63.59	3.06
8304	487829	241341	F	67	64.69	2.31
8305	487867	241329	F	66.45	63.33	3.12
8306	487889	241313	F	66.57	62.95	3.62
8401	487890	241494	F	-	-	-
8402	487891	241464	F	-	-	-
8403	487882	241401	F	66.88	65.51	1.37
8404	487858	241406	F	66.03	64.76	1.27
8501	487854	241572	F	64.65	65.87	1.22
8502	487842	241560	F	66.13	64.36	1.77
8503	487829	241572	F	65.84	63.98	1.86
8504	487827	241568	F	-	-	-
8505	487842	241555	F	-	-	-
8506	487851	241545	F	-	-	-
8507	487862	241564	F	-	-	-
8508	487872	241566	F	-	-	-
8509	487862	241575	F	-	-	-
8510	487853	241580	F	-	-	-
8511	487851	241578	F	-	-	-
9001	487996	241082	F	59.2	-	-
9201	487901	241243	F	66.5	61.94	4.56
9202	487973	241228	F	66.38	61.02	5.36
9203	487965	241233	F	66.1	63.77	2.33
9204	487979	241258	F	67.1	65.3	1.8
9401	487930	241484	F	-	-	-
9402	487955	241475	F	-	-	-
9403	487944	241448	F	-	-	-
9404	487922	241456	F	-	-	-
9405	487962	241437	F	65.8	62.71	3.09
9406	487983	241424	F	-	-	-
9407	487947	241419	F	66.35	63.94	2.41
9408	487953	241435	F	65.83	63.05	2.78
0501	488027	241197	S	59.44	57.89	1.75
0151	488069	241119	S	59.8	57.79	2.01
0152	488027	241167	S	62.3	60.04	2.26
0153	488037	241155	S	-	-	-
0154	488038	241103	S	-	-	-
0155	488032	241126	S	-	-	-
0156	488091	241190	S	-	-	-
0157	488063	241182	S	-	-	-
0158	488047	241168	S	-	-	-
0251	488078	241297	S	-	-	-
0252	488085	241270	S	-	-	-
0253	488090	241229	S	-	-	-
0351	488013	241397	S	-	-	-
0352	488036	241375	S	66.49	62.58	3.91
0353	488046	241359	S	66.65	62.2	4.45
0354	488069	241319	S	-	-	-
0355	488037	241387	S	66.39	62.78	3.61
0356	488018	241337	S	67.14	65.85	1.29
0357	488048	241383	S	-	-	-
0358	488069	241351	S	-	-	-
0359	488039	241399	S	-	-	-
0451	488043	241490	S	65.68	64.17	1.51
0452	488045	241472	S	65.85	63.99	1.86
0453	488058	241447	S	65.62	63.76	1.86
0454	488079	241424	S	65.35	63.34	2.01
0455	488068	241406	S	-	-	-
0456	488088	241405	S	-	-	-
0457	488088	241421	S	-	-	-
0458	488077	241433	S	-	-	-
0459	488047	241456	S	-	-	-
0460	488059	241459	S	-	-	-
0461	488027	241483	S	-	-	-
0462	488030	241483	S	-	-	-
0550	488043	241501	S	-	-	-
1051	488156	241072	S	58.4	56.67	1.73
1052	488137	241082	S	-	-	-
1151	488150	241123	S	-	-	-
1152	488144	241153	S	-	-	-
1153	488130	241174	S	-	-	-
1251	488161	241295	S	65.42	62.56	2.86
1252	488148	241290	S	-	-	-
1253	488138	241288	S	-	-	-
1254	488120	241274	S	-	-	-
1256	488166	241295	S	-	-	-

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
1351	488159	241359	S	-	-	-
1352	488137	241324	S	-	-	-
1353	488118	241313	S	-	-	-
1354	488112	241388	S	65.69	64.03	1.66
1355	488118	241384	S	-	-	-
1356	488132	241337	S	-	-	-
1357	488124	241393	S	-	-	-
1358	488105	241385	S	-	-	-
2051	488207	241010	S	58.2	56.47	1.73
7351	487790	241373	S	66.11	64.76	1.35
7352	487798	241351	S	67.12	64.54	2.58
7453	487763	241486	S	-	-	-
7454	487788	241405	S	66.88	65.07	1.81
7551	487797	241576	S	66.79	63.38	3.41
7552	487797	241594	S	66.67	63.36	3.31
7553	487764	241515	S	-	-	-
7558	487799	241567	S	-	-	-
7559	487799	241558	S	-	-	-
7560	487785	241588	S	-	-	-
7561	487781	241595	S	-	-	-
7562	487793	241571	S	-	-	-
7563	487780	241558	S	-	-	-
7564	487777	241537	S	-	-	-
7565	487769	241531	S	-	-	-
7566	487764	241527	S	-	-	-
7651	487770	241637	S	67.36	63.04	4.32
7652	487748	241694	S	67.58	62.78	4.8
8351	487895	241395	S	66.77	65.29	1.48
8352	487880	241399	S	66.95	65.02	1.93
8353	487856	241368	S	67.04	64.12	2.92
8354	487855	241351	S	67.08	63.95	3.13
8355	487853	241337	S	66.6	63.84	2.76
8356	487872	241330	S	66.42	63.58	2.84
8357	487882	241315	S	66.64	63.35	3.29
8451	487812	241499	S	66.47	64.75	1.72
8452	487886	241493	S	-	-	-
8453	487894	241461	S	-	-	-
8454	487860	241402	S	67.05	64.44	2.61
8455	487812	241404	S	66.77	65.39	1.38
8551	487870	241564	S	66	64.23	1.77
8552	487857	241577	S	65.83	64.04	1.79
8553	487872	241594	S	-	-	-
8554	487843	241564	S	66.1	63.82	2.28
8555	487830	241574	S	65.82	63.64	2.18
8556	487808	241516	S	-	-	-
8557	487801	241593	S	-	-	-
8558	487800	241587	S	-	-	-
8559	487801	241537	S	-	-	-
8560	4					



0m 250m 500m 750m 1000m Date: 28/10/20 Scale: 1:1250 Map Centre: 49851 24100 Data updated: 30/09/20 Our Ref: 452497 - 10 Wastewater Plan A1

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Foul Sewer		Outfall	
Surface Sewer		Inlet	
Combined Sewer		Manhole	
Final Effluent		Decommissioned Sewer	
Rising Main			
Private Sewer			
Decommissioned Sewer			

	Sewage Treatment Works
	Public Pumping Station
	Decommissioned Pumping Station
	Private Sewer
	Manhole

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89518



Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
0300	490010	241380	F	73	71.45	1.55
0400	490096	241436	F	73.96	72.15	1.71
2301	489216	241333	F	62.27	61.14	1.13
3301	489313	241338	F	63.32	62.21	1.11
4301	489413	241350	F	64.4	63.33	1.07
5301	489563	241330	F	68.52	67.19	1.33
5302	489511	241360	F	66.28	65.07	1.21
6201	489658	241288	F	71.81	69.36	2.45
7301	489762	241308	F	73.6	70.1	3.7
8301	489867	241324	F	73.08	70.9	2.18
9301	489938	241328	F	72.03	70.95	1.08

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
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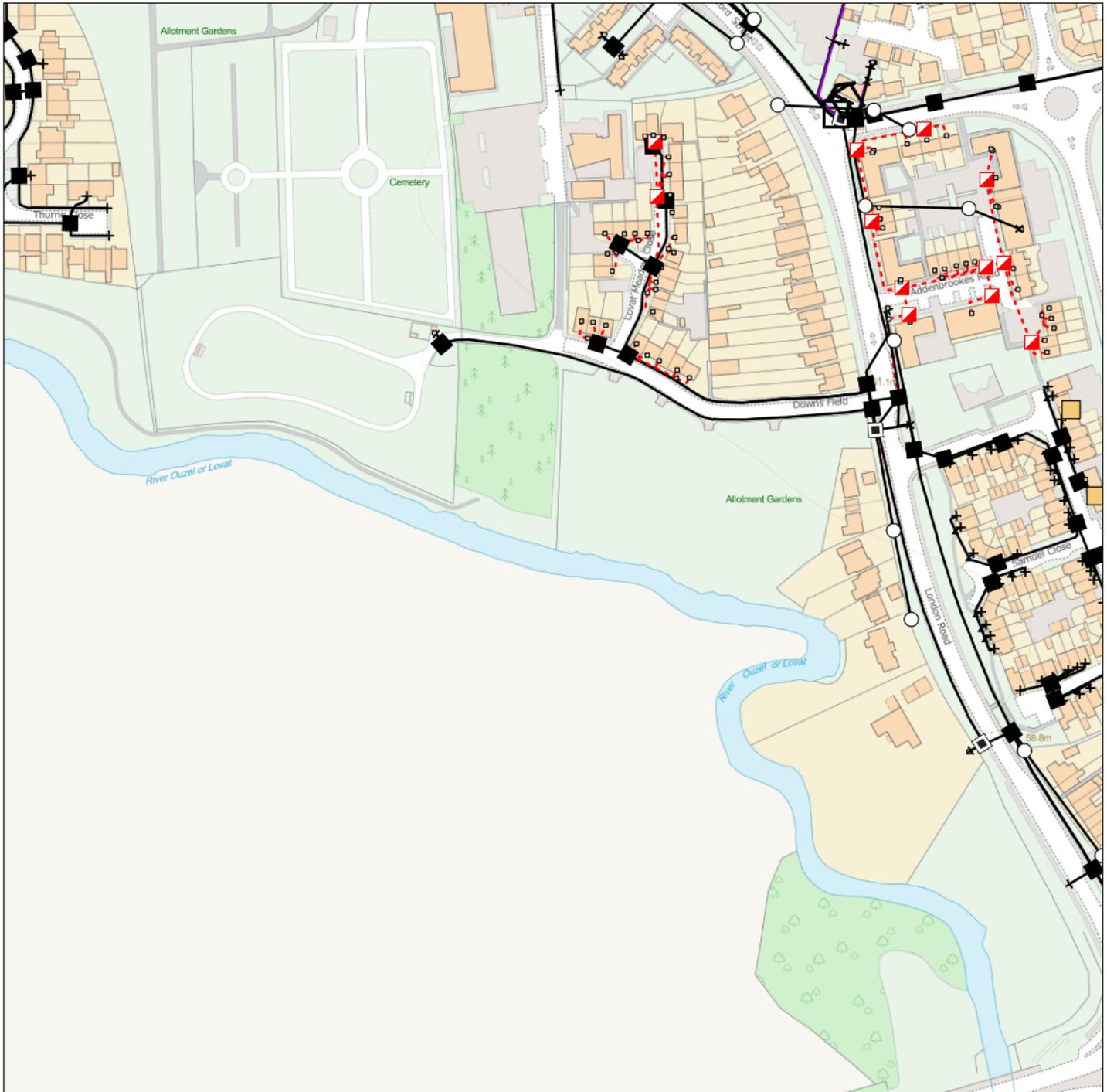
Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
-------------------	---------	----------	-------------	-------------	--------------	-----------------

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
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Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
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Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
-------------------	---------	----------	-------------	-------------	--------------	-----------------

# Maps by email Plant Information Reply



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KEY TO BT SYMBOLS		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

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BT Ref : JYB07521T

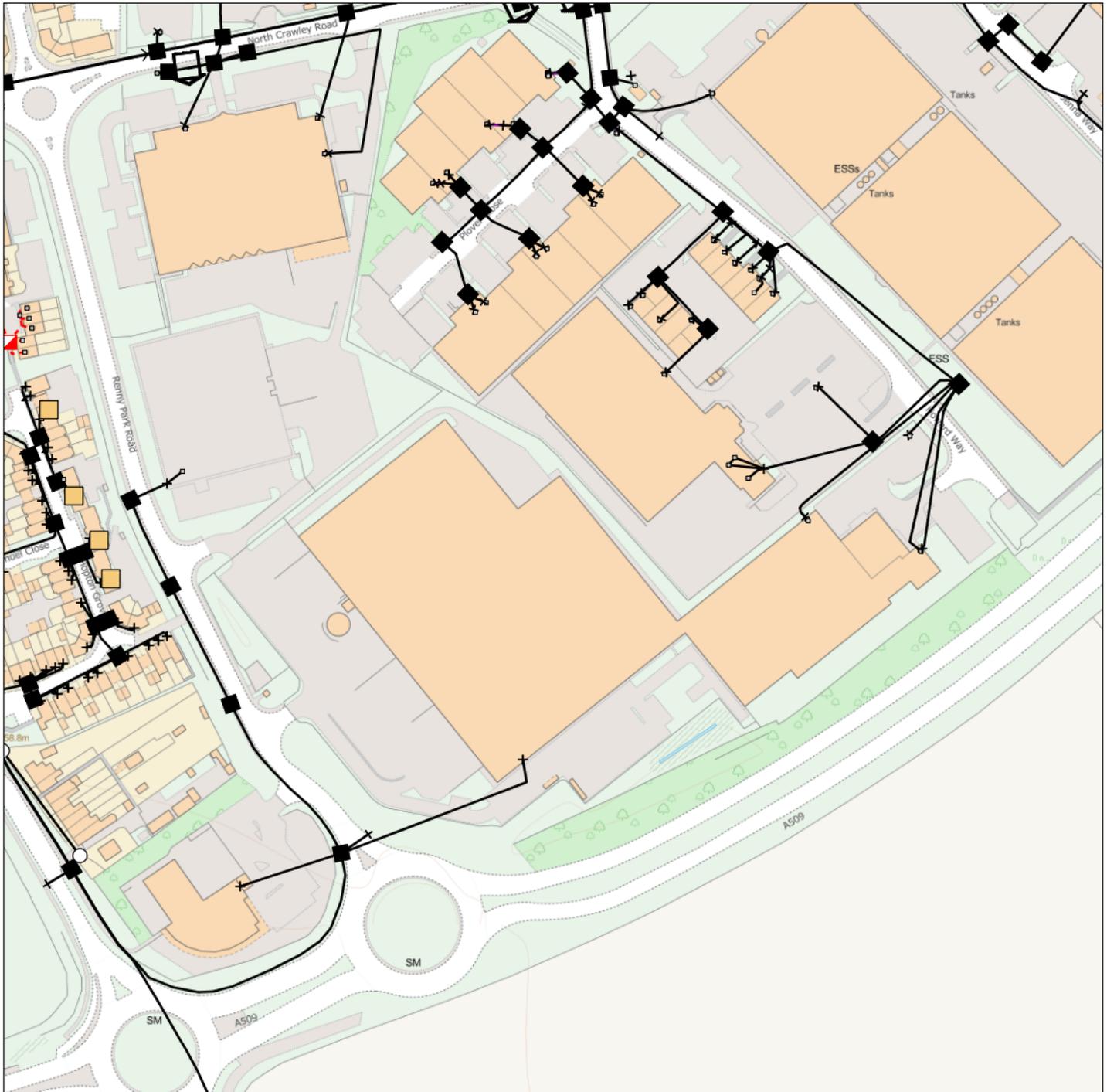
Map Reference : (centre) SP8843343100

Easting/Northing : (centre) 488433,243100

Issued : 21/10/2020 19:53:01

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## KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	Split Coupling	×	Built	
PCP		Duct Tee	▲	Planned	
Pole		Building		Inferred	
Box		Kiosk		Duct	
Manhole		Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

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BT Ref : VEI07529D

Map Reference : (centre) SP8889843100

Easting/Northing : (centre) 488898,243100

Issued : 21/10/2020 19:53:04

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KEY TO BT SYMBOLS		Change Of State	+	Hatchings		
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : XMN07524R

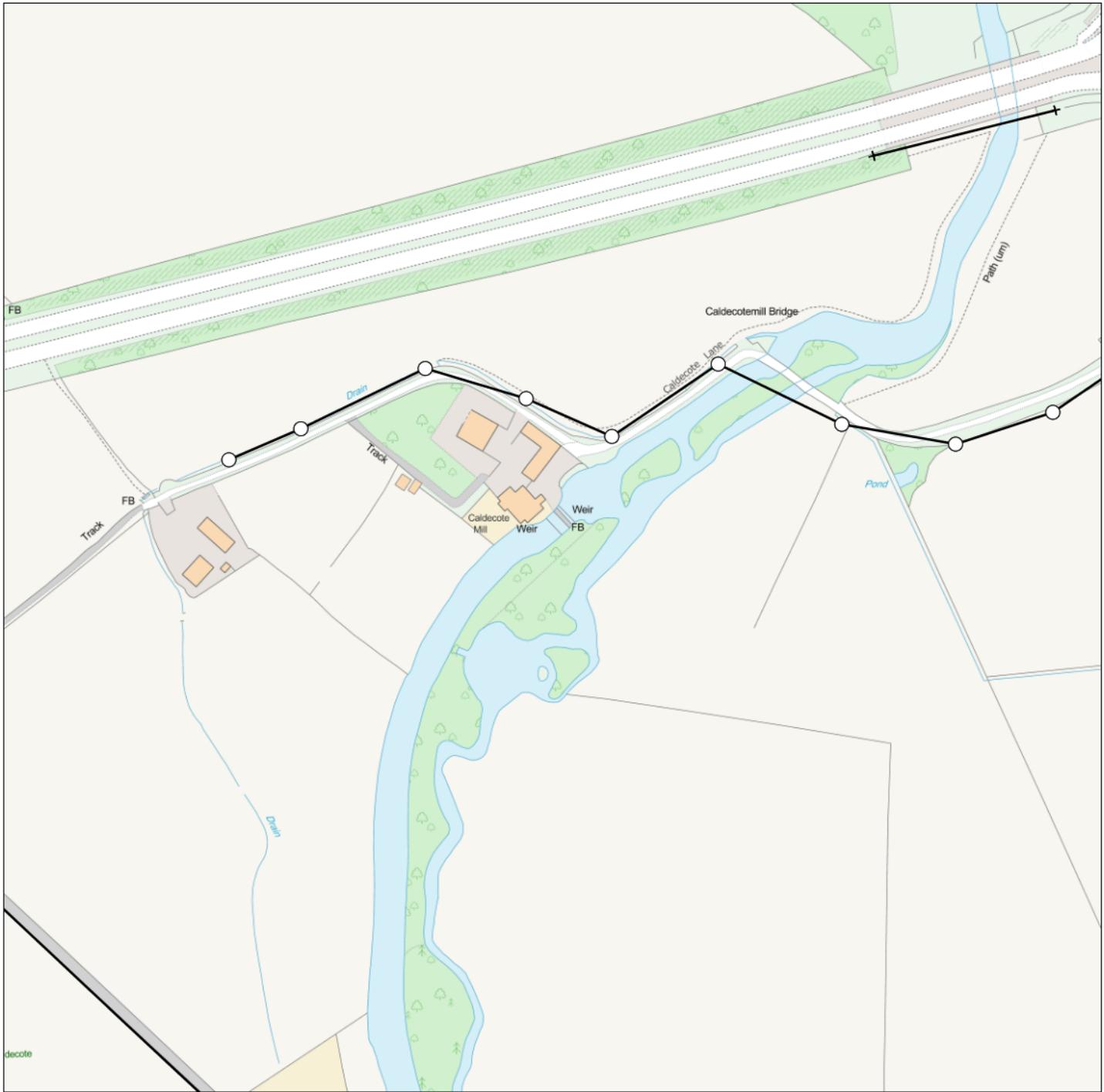
Map Reference : (centre) SP8936343100

Easting/Northing : (centre) 489363,243100

Issued : 21/10/2020 19:53:06

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# Maps by email Plant Information Reply



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KEY TO BT SYMBOLS		Change Of State	+	Hatchings		
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : JBQ07536U

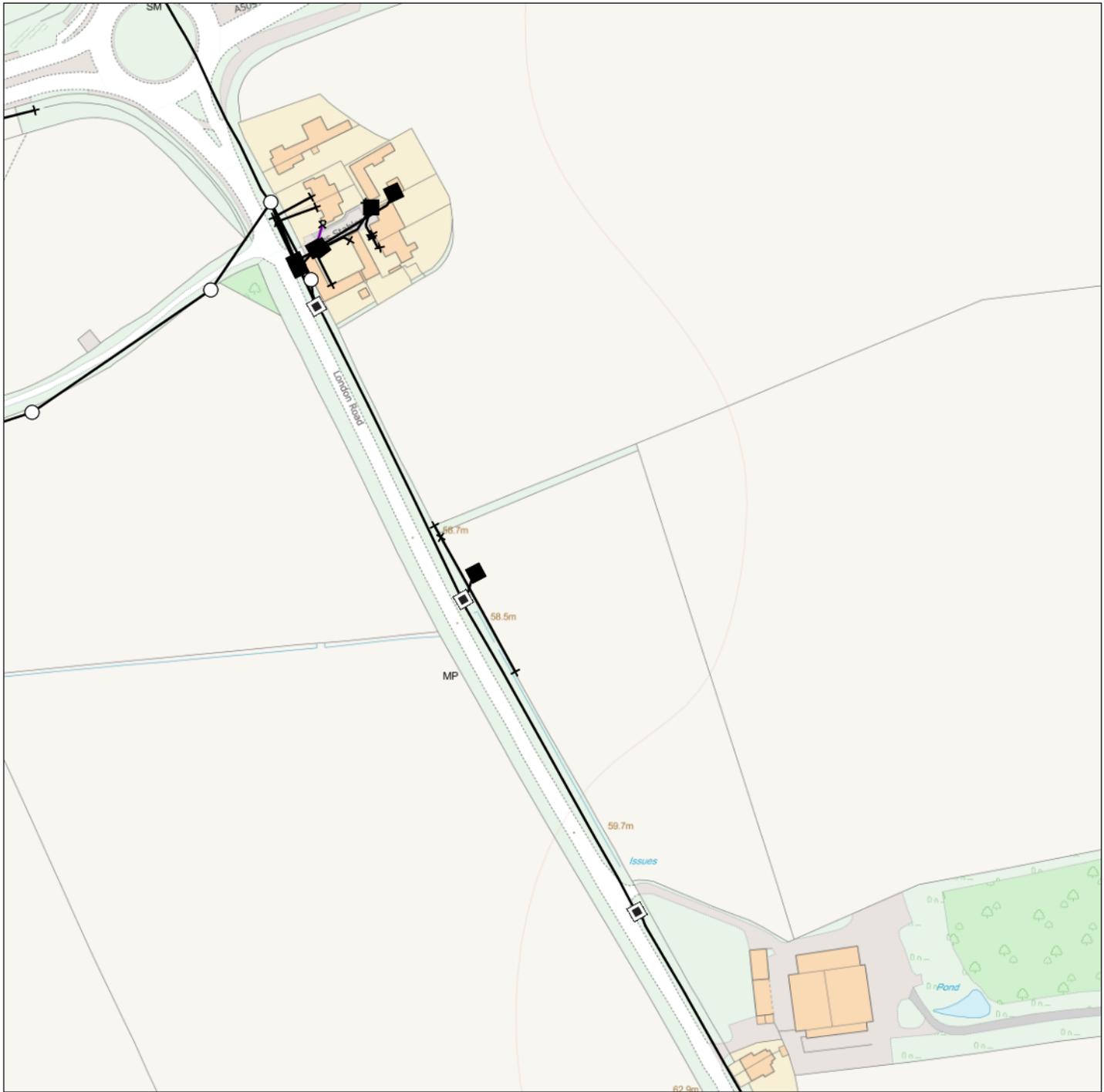
Map Reference : (centre) SP8843342636

Easting/Northing : (centre) 488433,242636

Issued : 21/10/2020 19:53:19

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# Maps by email Plant Information Reply



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	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : UYR07536S

Map Reference : (centre) SP8889842636

Easting/Northing : (centre) 488898,242636

Issued : 21/10/2020 19:53:22

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# Maps by email Plant Information Reply



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KEY TO BT SYMBOLS		Change Of State	+	Hatchings		
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : BCG07538S

Map Reference : (centre) SP8796942171

Easting/Northing : (centre) 487969,242171

Issued : 21/10/2020 19:53:33

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	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building	■	Inferred	
Box			Kiosk	Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : UBU075351  
Map Reference : (centre) SP8843342171  
Easting/Northing : (centre) 488433,242171  
Issued : 21/10/2020 19:53:37

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PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : TCW07531G

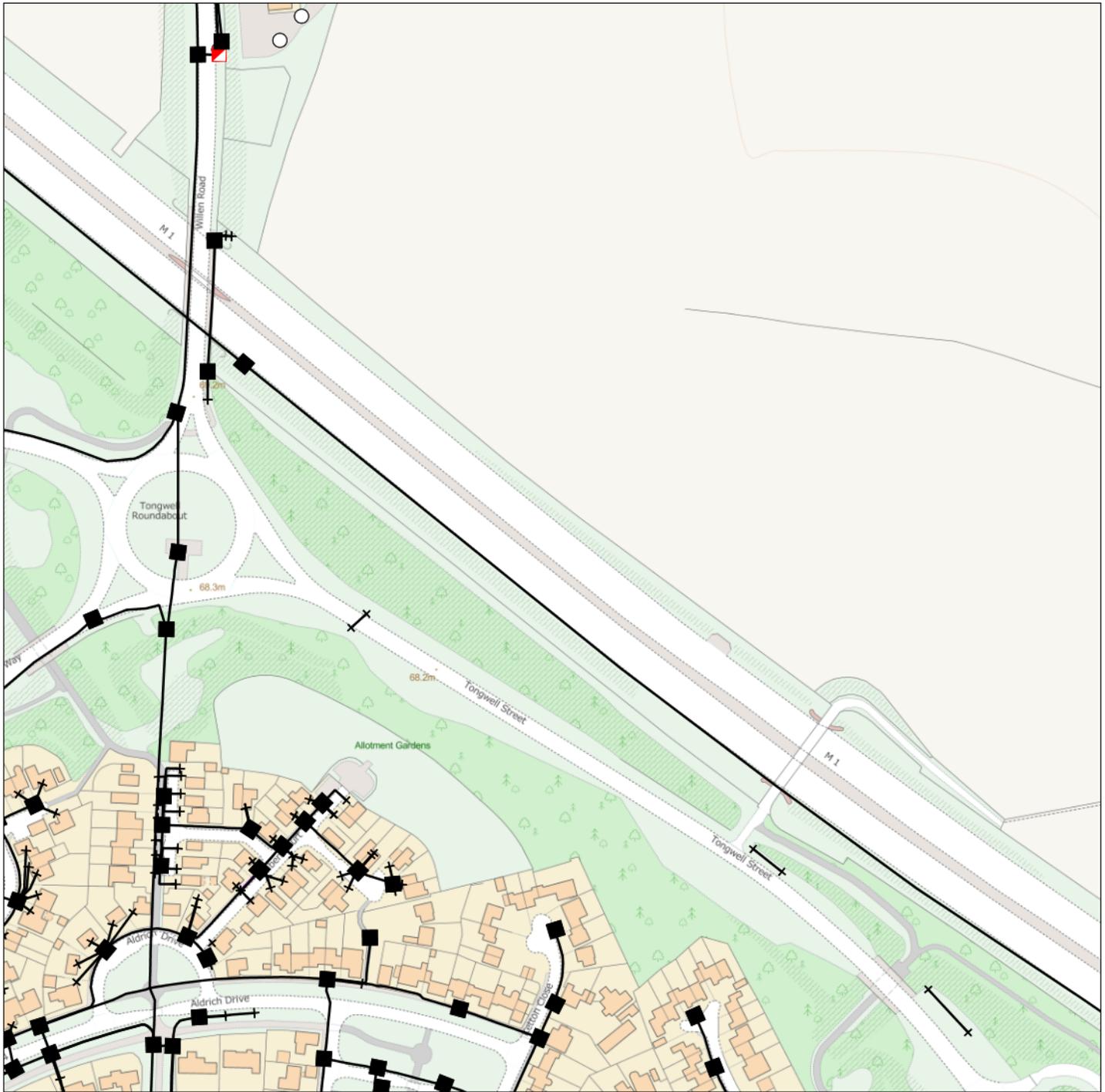
Map Reference : (centre) SP8889842171

Easting/Northing : (centre) 488898,242171

Issued : 21/10/2020 19:53:39

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PCP		Duct Tee	▲	Planned	
Pole		Building		Inferred	
Box		Kiosk		Duct	
Manhole		Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

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BT Ref : LKF07536G

Map Reference : (centre) SP8796941706

Easting/Northing : (centre) 487969,241706

Issued : 21/10/2020 19:53:57

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## KEY TO BT SYMBOLS

	<i>Planned</i>	<i>Live</i>	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

BT Ref : LQL07539E

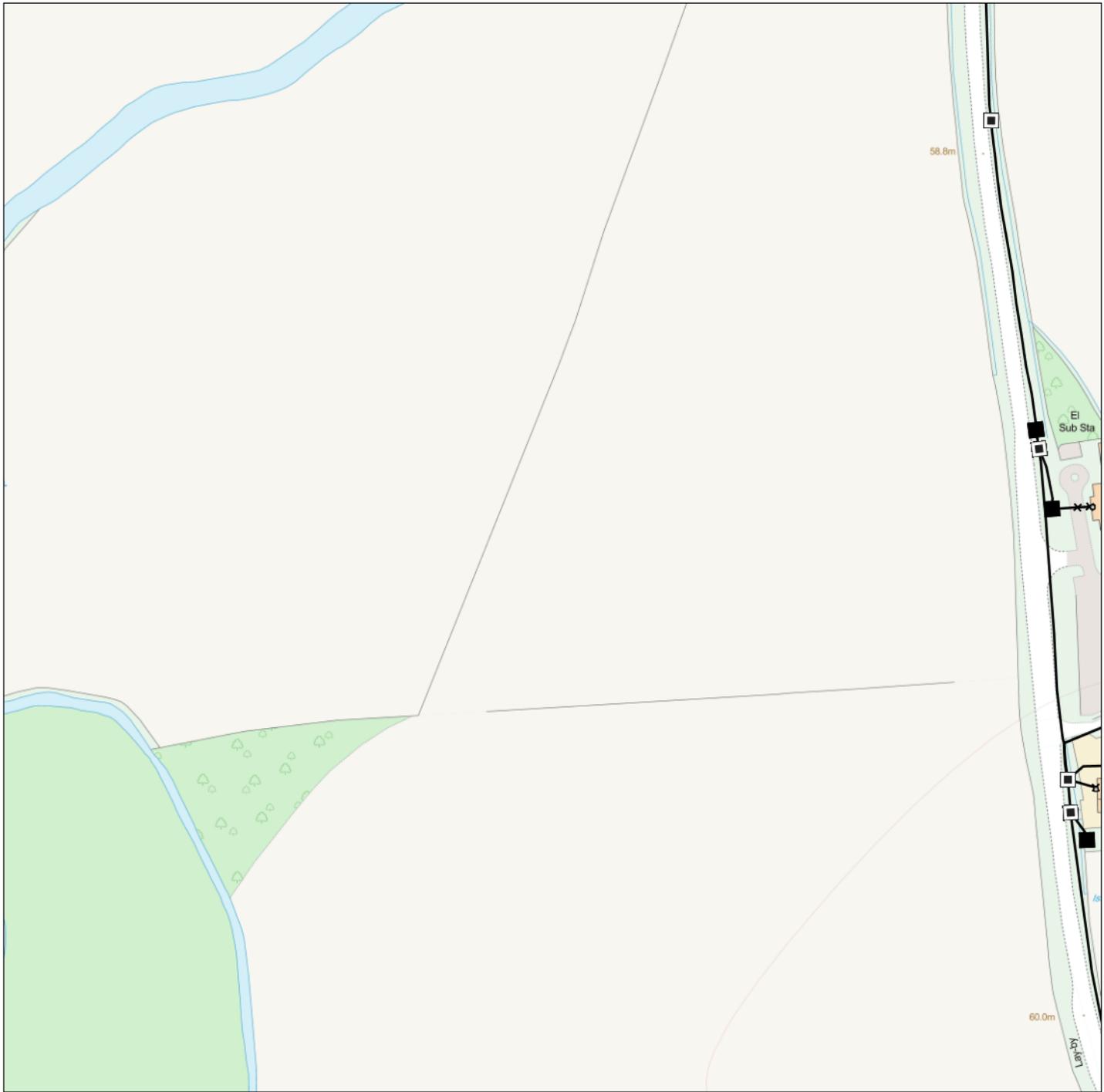
Map Reference : (centre) SP8843341706

Easting/Northing : (centre) 488433,241706

Issued : 21/10/2020 19:53:59

**WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: [nnhc@openreach.co.uk](mailto:nnhc@openreach.co.uk)**

# Maps by email Plant Information Reply



## IMPORTANT WARNING

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(Office hours: Monday - Friday 08.00 to 17.00)  
[www.openreach.co.uk/cbyd](http://www.openreach.co.uk/cbyd)

### Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

KEY TO BT SYMBOLS		Change Of State	+	Hatchings		
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : GZX07534R

Map Reference : (centre) SP8889841706

Easting/Northing : (centre) 488898,241706

Issued : 21/10/2020 19:54:04

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# Maps by email Plant Information Reply



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KEY TO BT SYMBOLS		Change Of State	+	Hatchings		
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : RGT07538S  
Map Reference : (centre) SP8936341706  
Easting/Northing : (centre) 489363,241706  
Issued : 21/10/2020 19:54:06

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# Maps by email Plant Information Reply



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KEY TO BT SYMBOLS		Change Of State	+	Hatchings		
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : TIT07544P

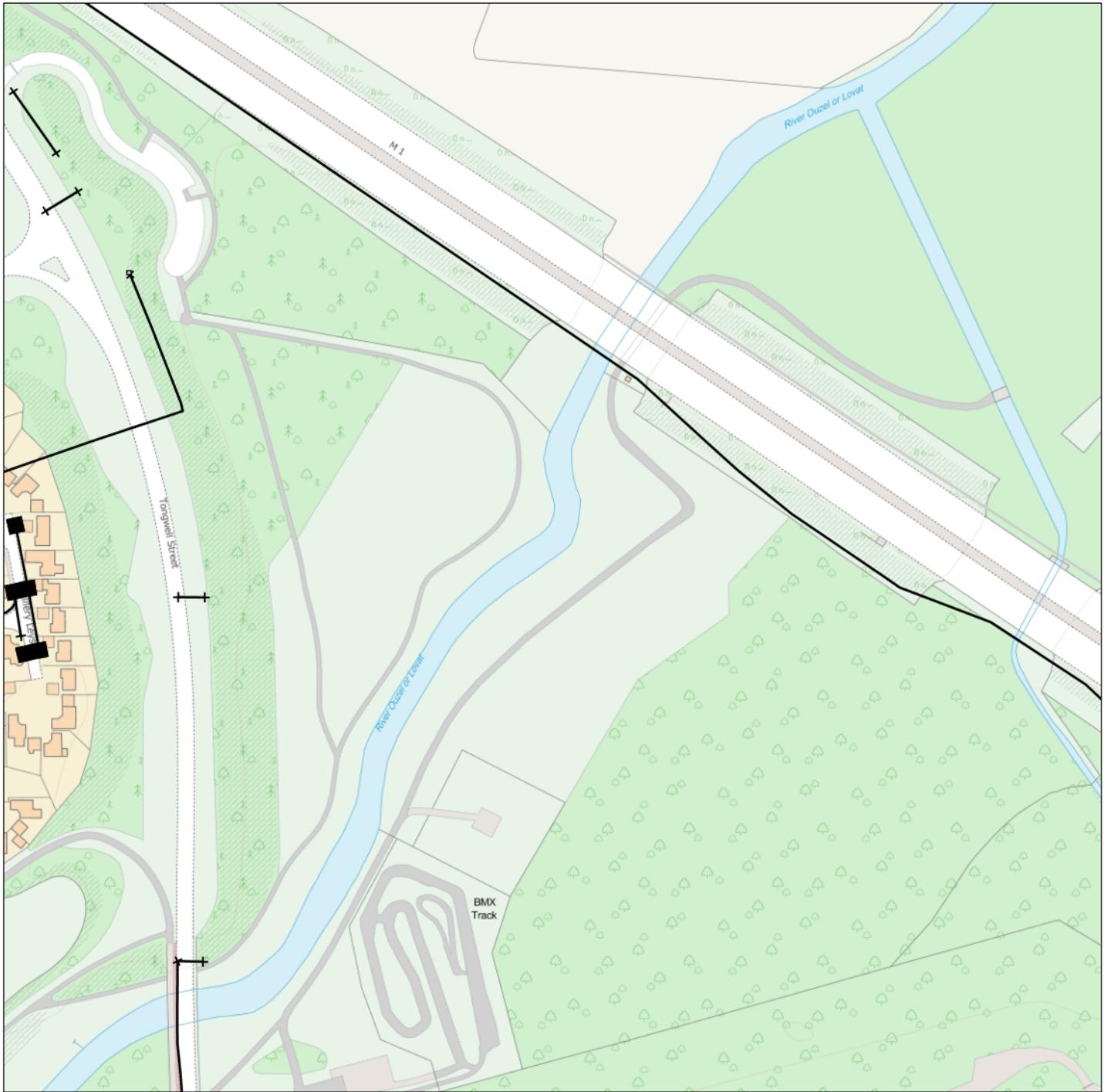
Map Reference : (centre) SP9029241706

Easting/Northing : (centre) 490292,241706

Issued : 21/10/2020 19:54:14

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# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

		Change Of State	+	Hatchings	
	<i>Planned</i>	Split Coupling	×	Built	
	<i>Live</i>	Duct Tee	▲	Planned	
PCP		Building		Inferred	
Pole		Kiosk		Duct	
Box					
Manhole					
Cabinet					
		Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

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BT Ref : WUR07547W

Map Reference : (centre) SP8843341242

Easting/Northing : (centre) 488433,241242

Issued : 21/10/2020 19:54:16

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# Maps by email Plant Information Reply



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KEY TO BT SYMBOLS		Change Of State	+	Hatchings		
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : PSD07542N

Map Reference : (centre) SP8889841242

Easting/Northing : (centre) 488898,241242

Issued : 21/10/2020 19:54:19

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# Maps by email Plant Information Reply



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KEY TO BT SYMBOLS		Change Of State	+	Hatchings		
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : FSA07541E

Map Reference : (centre) SP8936341242

Easting/Northing : (centre) 489363,241242

Issued : 21/10/2020 19:54:21

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# Maps by email Plant Information Reply



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KEY TO BT SYMBOLS		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

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BT Ref : SQM07547H

Map Reference : (centre) SP8982741242

Easting/Northing : (centre) 489827,241242

Issued : 21/10/2020 19:54:33

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# Maps by email Plant Information Reply



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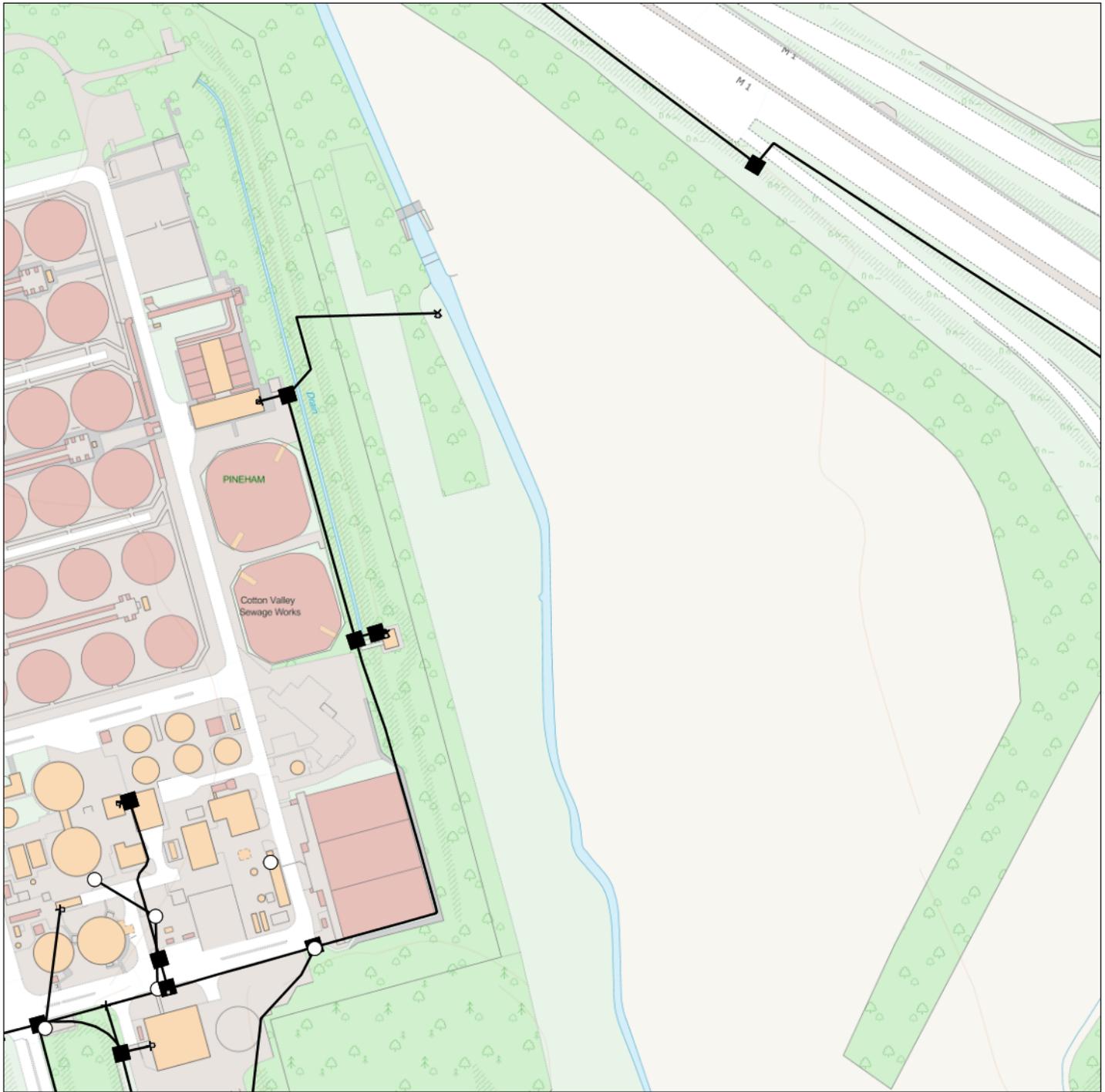
KEY TO BT SYMBOLS		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

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BT Ref : HUL075461  
Map Reference : (centre) SP9029241242  
Easting/Northing : (centre) 490292,241242  
Issued : 21/10/2020 19:54:36

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# Maps by email Plant Information Reply



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KEY TO BT SYMBOLS		Change Of State	+	Hatchings		
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : JSS07542D

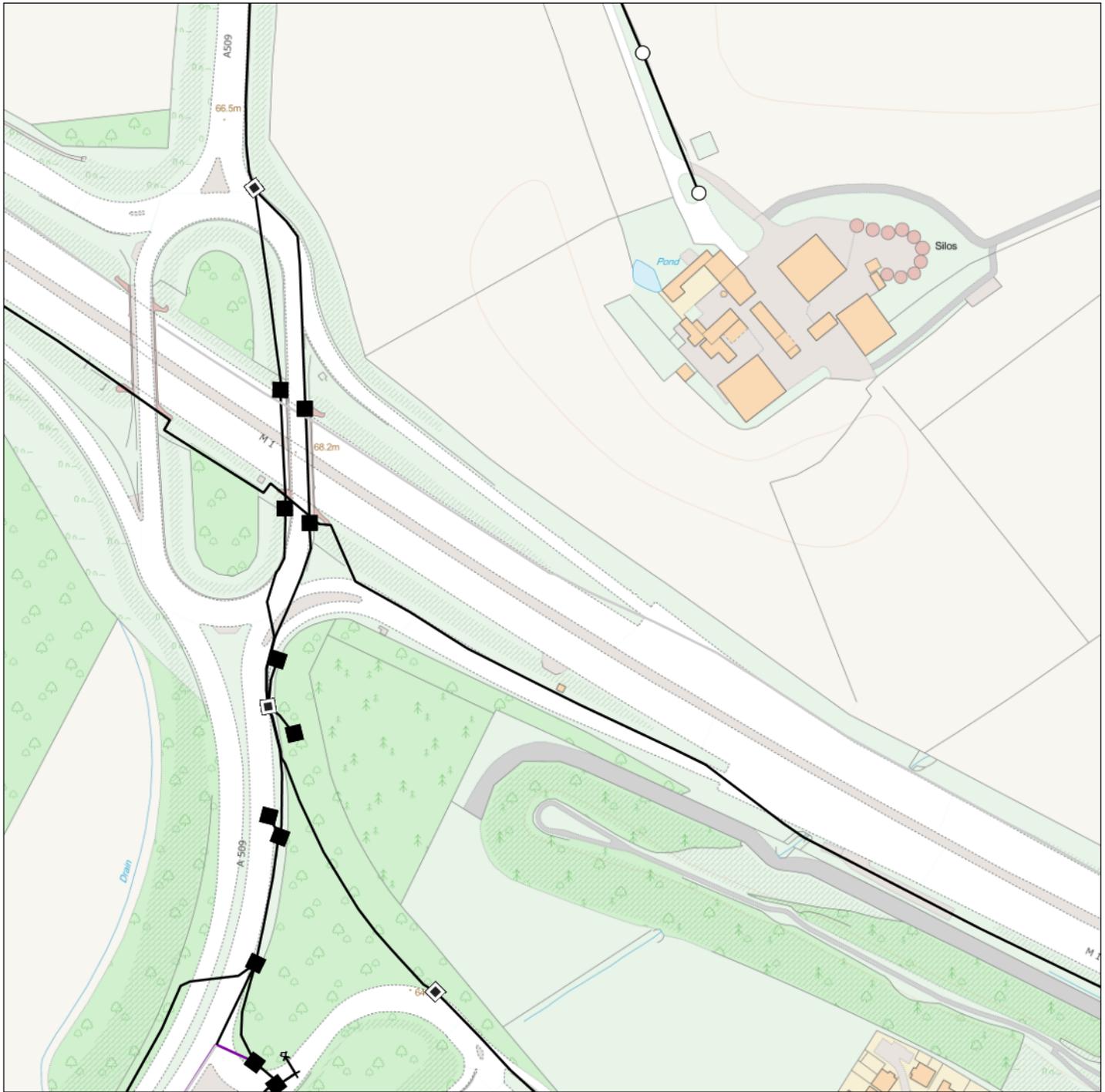
Map Reference : (centre) SP8889840777

Easting/Northing : (centre) 488898,240777

Issued : 21/10/2020 19:54:38

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# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

			Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building		Inferred	
Box			Kiosk		Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

BT Ref : ROJ07546Z

Map Reference : (centre) SP8936340777

Easting/Northing : (centre) 489363,240777

Issued : 21/10/2020 19:54:41

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# Maps by email Plant Information Reply



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	<i>Planned</i>	<i>Live</i>	Split Coupling	×	Built	
PCP			Duct Tee	▲	Planned	
Pole			Building	■	Inferred	
Box			Kiosk	Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
Cabinet						
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>		
Power Cable						
Power Duct				N/A		

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BT Ref : PRA075420

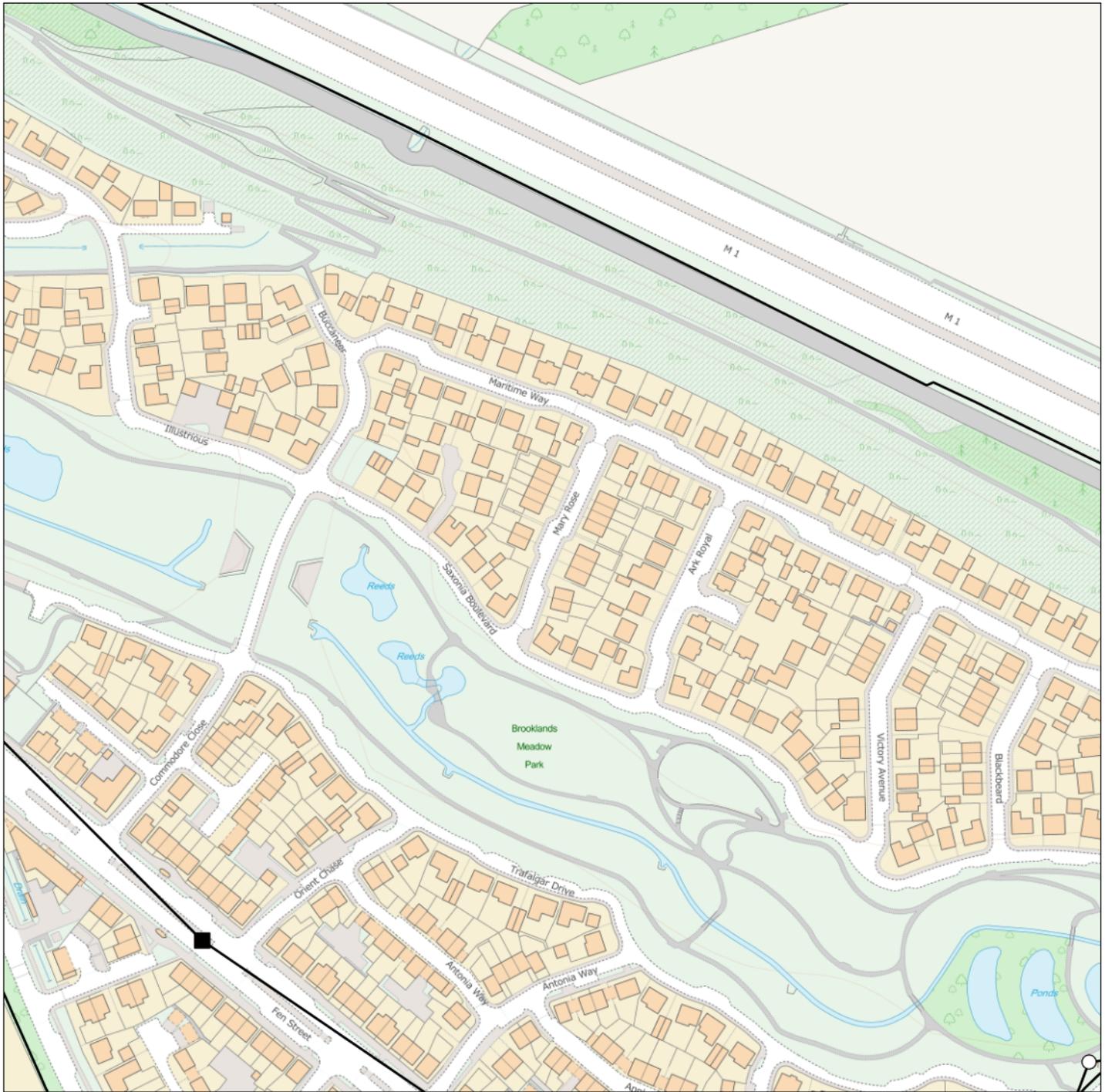
Map Reference : (centre) SP8982740777

Easting/Northing : (centre) 489827,240777

Issued : 21/10/2020 19:54:46

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# Maps by email Plant Information Reply



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KEY TO BT SYMBOLS		Change Of State	+	Hatchings	
	<i>Planned</i>	<i>Live</i>	×	Built	
PCP			▲	Planned	
Pole			■	Inferred	
Box			Ⓚ	Duct	
Manhole			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
Cabinet					
	<i>Pending Add</i>	<i>In Place</i>	<i>Pending Remove</i>	<i>Not In Use</i>	
Power Cable					
Power Duct				N/A	

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BT Ref : KUH07543A

Map Reference : (centre) SP8982740313

Easting/Northing : (centre) 489827,240313

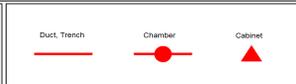
Issued : 21/10/2020 19:55:00

**WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: [nnhc@openreach.co.uk](mailto:nnhc@openreach.co.uk)**



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Important information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where marine voltage cover cables have been placed inside green cable runs which are not shown during the 'Advanced' installation stage. Which can be disconnected from the website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual location of all underground cables should be determined by means of a cable detector, or other method, prior to any excavation work. Accuracy, unless it is due to the negligence of Virgin Media, its employees or agents. Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of or reliance on this plan. This plan is provided by Virgin Media Limited (c) Crown copyright and database rights 2020 Ordnance Survey 100019209



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BR1518_1





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Important information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where certain voltage cover cables have been placed inside green cable ducts during further works can be found using the 'Advanced' functionality, which can be downloaded from the website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual location of any underground apparatus will be confirmed by the relevant field engineer. The location of any underground apparatus will be confirmed by the relevant field engineer. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is provided by Virgin Media Limited © Crown copyright and database rights 2020 Ordnance Survey 100019209

Duct, Trench	Chamber	Cabinet

ben.evans2@virginmedia.com
BR518_3

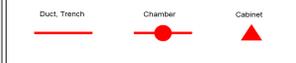




0m 250m 500m 750m

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Important information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where active voltage cover cables have been placed inside green cable ducts during the lifetime of the apparatus. Further details can be found using the 'Advanced' functionality, which can be downloaded from the website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual location of any underground cabling must be confirmed by cable location equipment, etc. and undertaken on the surface by the relevant civils team. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is provided by Virgin Media Limited (c) Crown copyright and database rights 2020 Ordnance Survey 100019209



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BIS18_4





0m 250m 500m  
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Important information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be infrastructure where neither voltage cover cables have been tested nor ground wires other than those during. Further details can be found using the 'Advanced' toolbar tool, which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual location of any underground services must be verified by cable detector equipment, etc. and established on site before any mechanical work is done. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is provided by Virgin Media Limited (c) Crown copyright and database rights 2020 Ordnance Survey 100019209

Duct, Trench	Chamber	Cabinet

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 R0518\_5

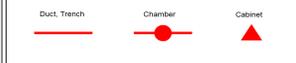




0m 250m 500m 750m

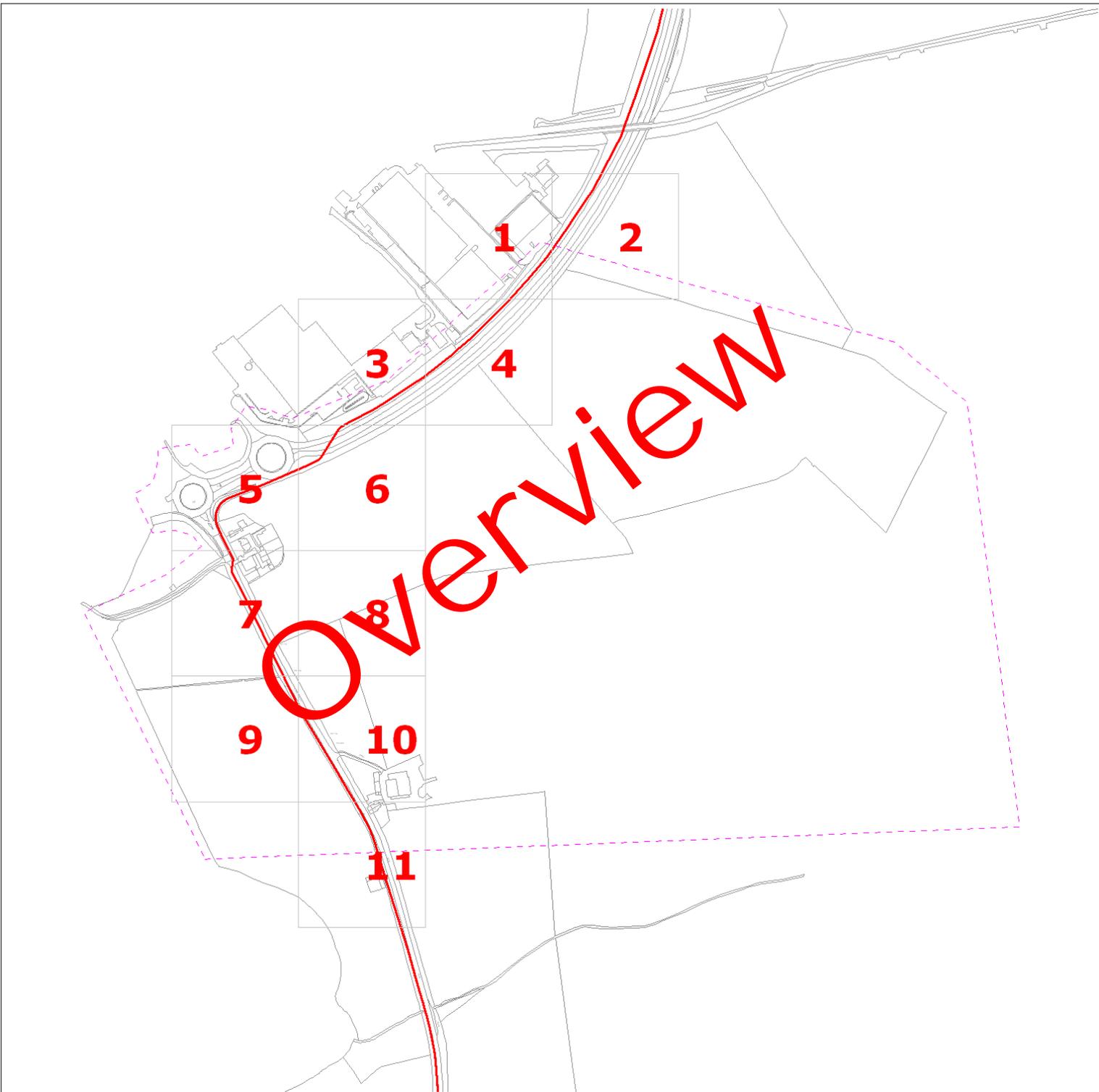
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Important information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be infrastructure where future village tower cables have been placed inside ground - either new cables during the rollout or cables that have been placed there previously. We cannot be held responsible for any damage to property or injury to persons caused by the use of this plan. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual location of all underground services must be verified by cable detection equipment, etc. and established on the surface by the relevant plan if used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is provided by Virgin Media Limited (c) Crown copyright and database rights 2020 Ordnance Survey 100019209



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BIS18_6





Date Requested: 21/10/2020  
 Requested by: Chrissy Elliott  
 Company: Atkins  
 Job Reference: 20279938  
 Your Scheme/Reference: 89518/BRK-1

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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 T: 01992 788 019



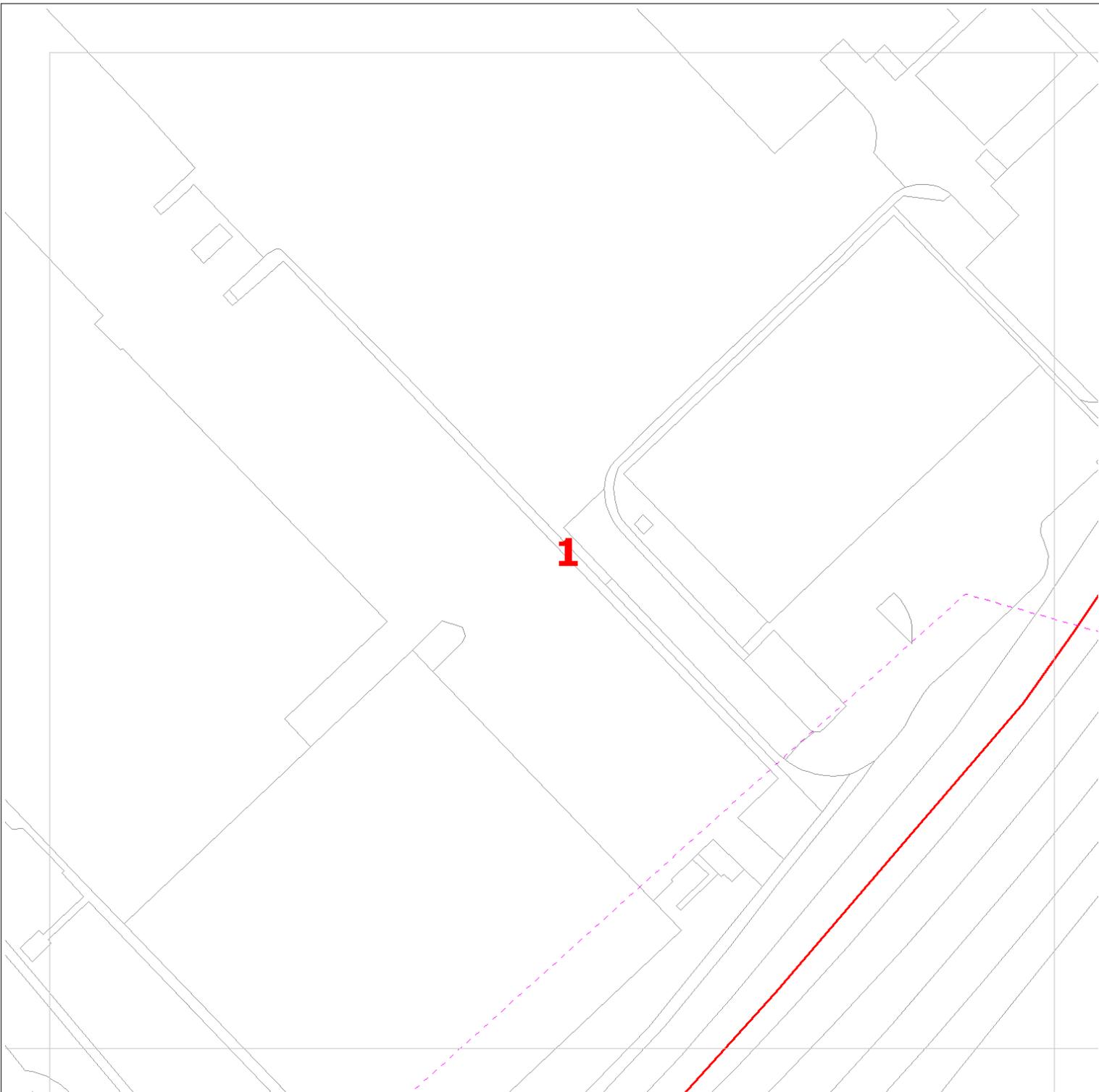
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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20279938

Your Scheme/Reference: 89518/BRK-1

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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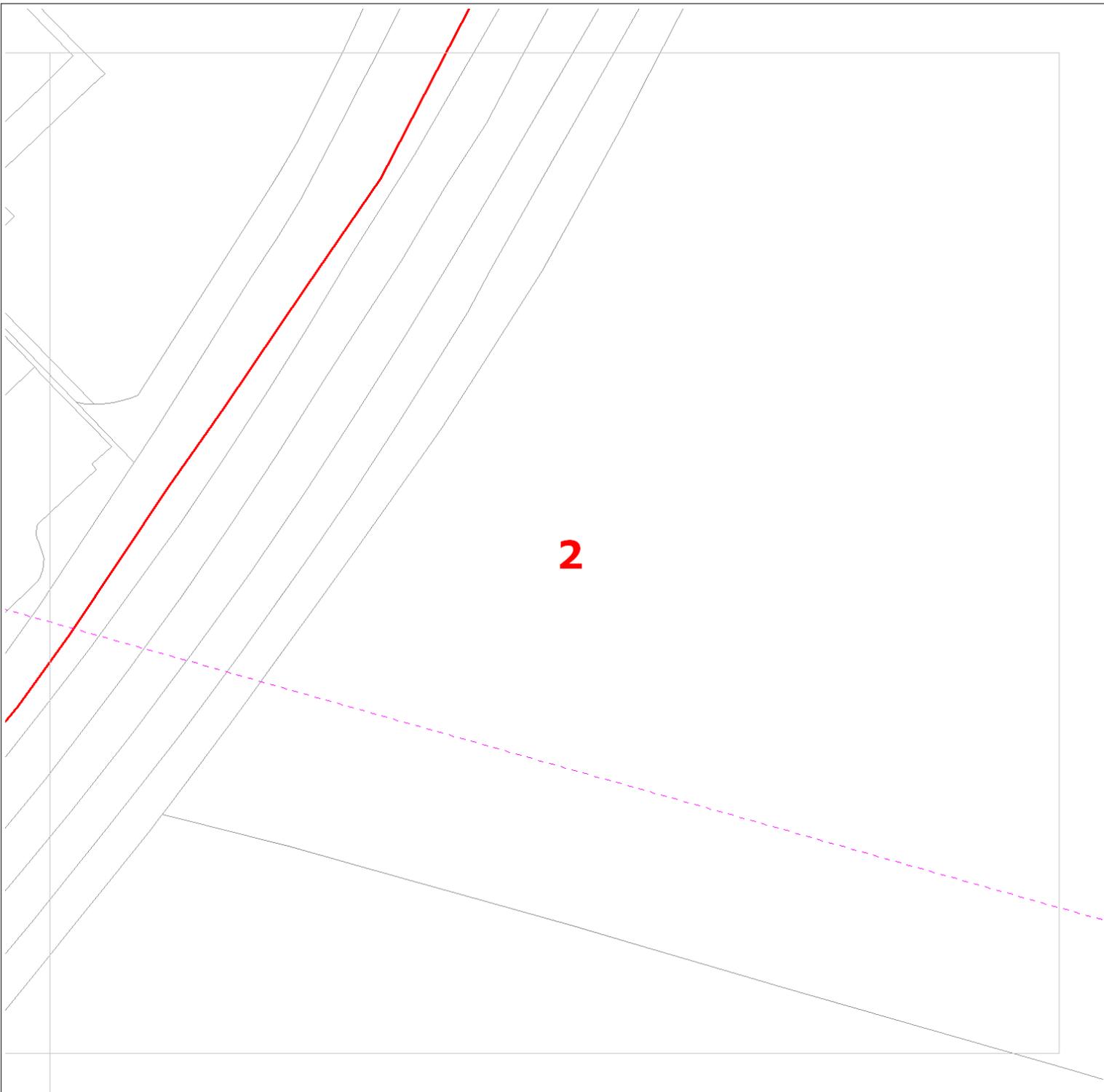
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Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20279938

Your Scheme/Reference: 89518/BRK-1

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 or  ZAYO CHAMBER  
 Dig Sites:    Line     Area   
 Scale on A4 paper: 1:1000



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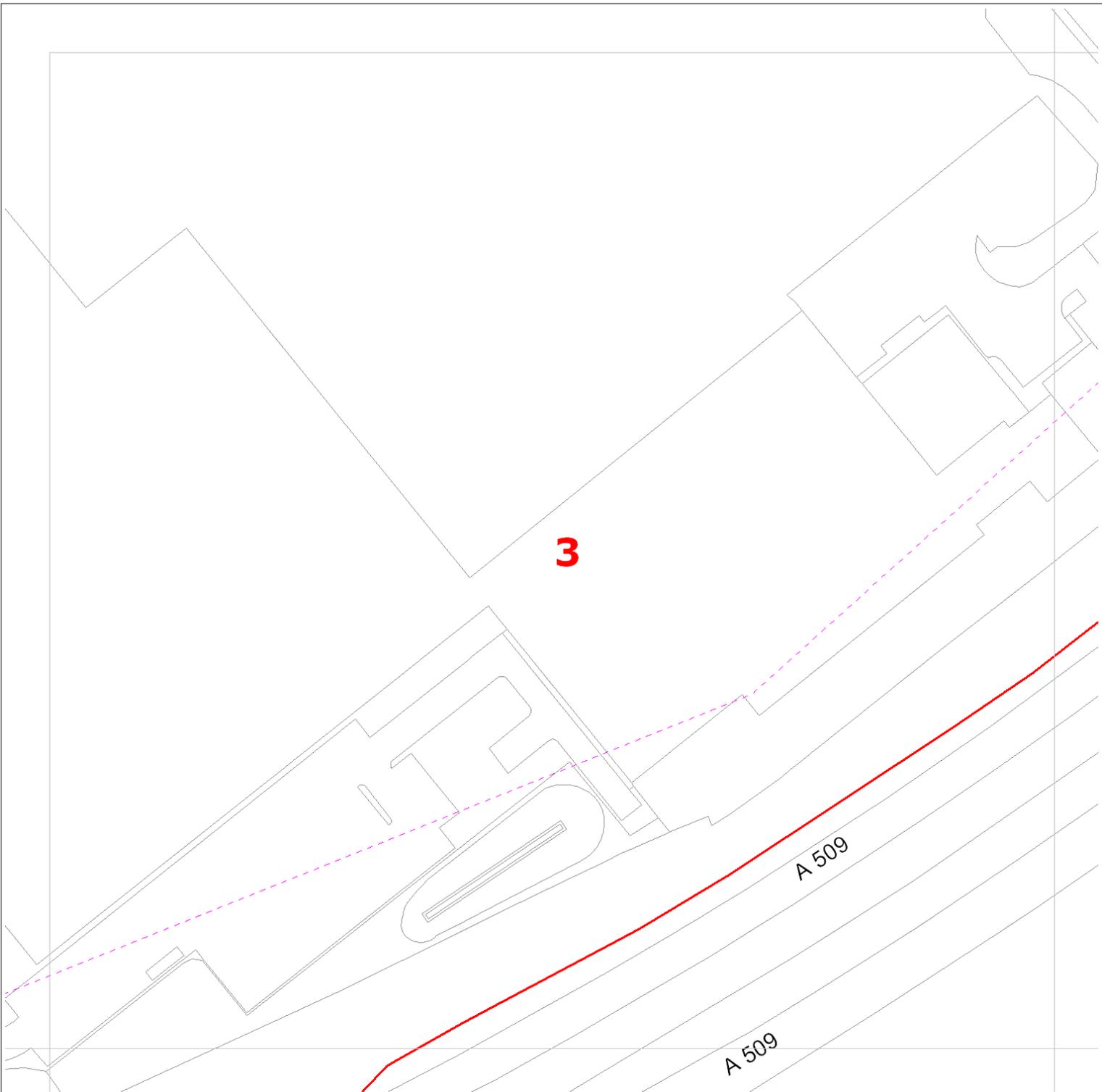
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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20279938

Your Scheme/Reference: 89518/BRK-1

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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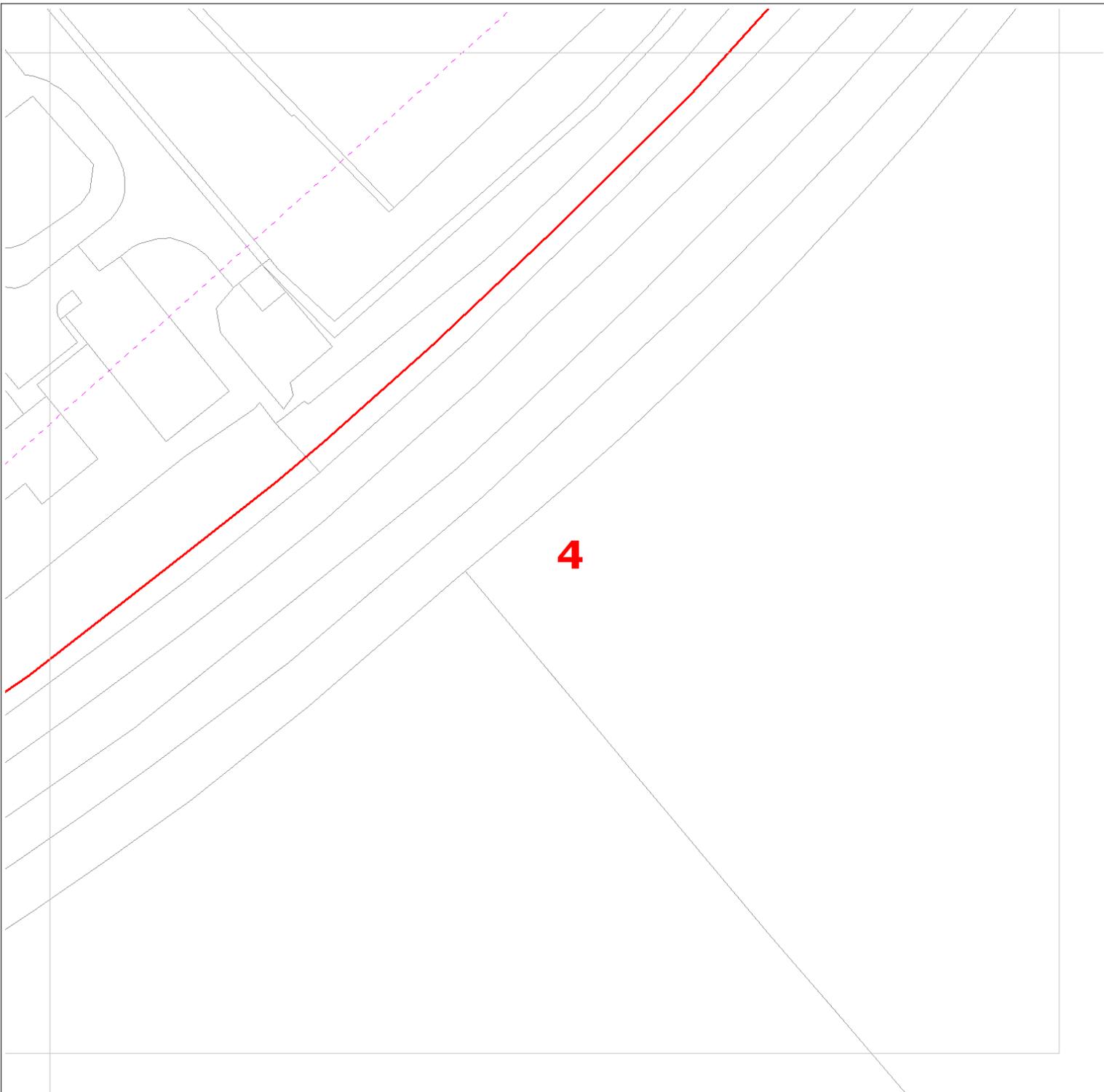
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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20279938

Your Scheme/Reference: 89518/BRK-1

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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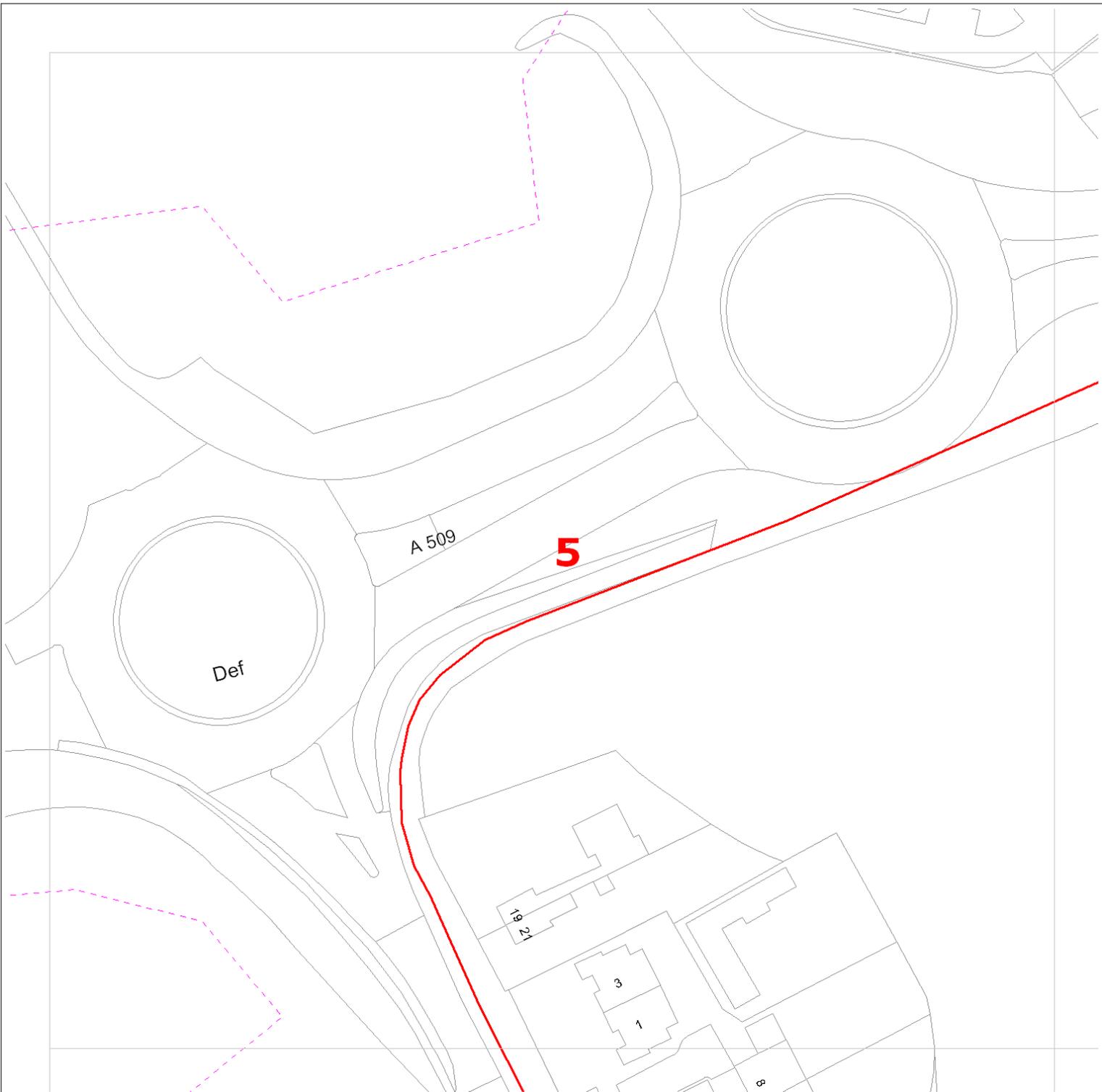
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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20279938

Your Scheme/Reference: 89518/BRK-1

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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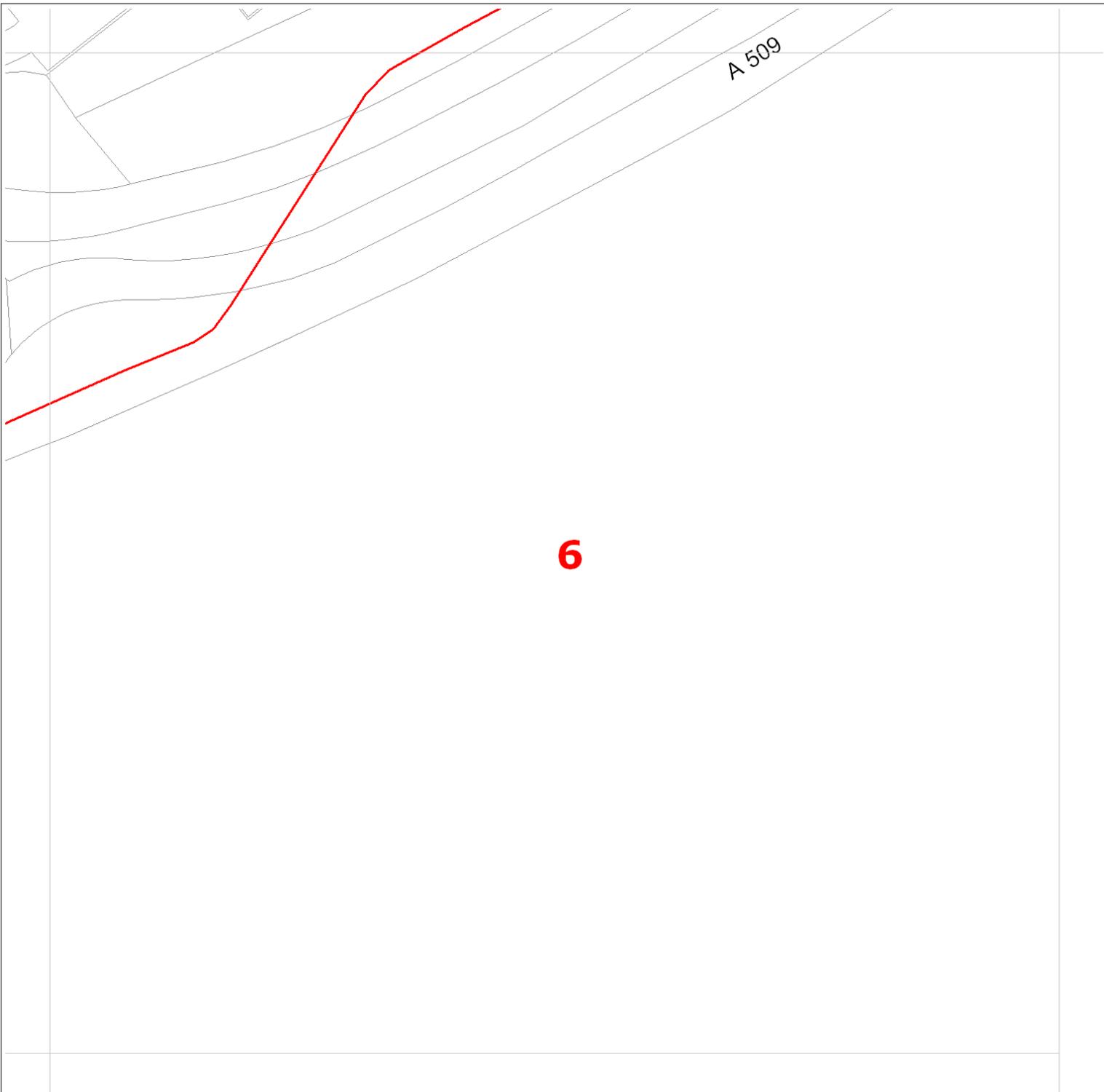
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Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20279938

Your Scheme/Reference: 89518/BRK-1

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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 Dig Sites: Line  Area   
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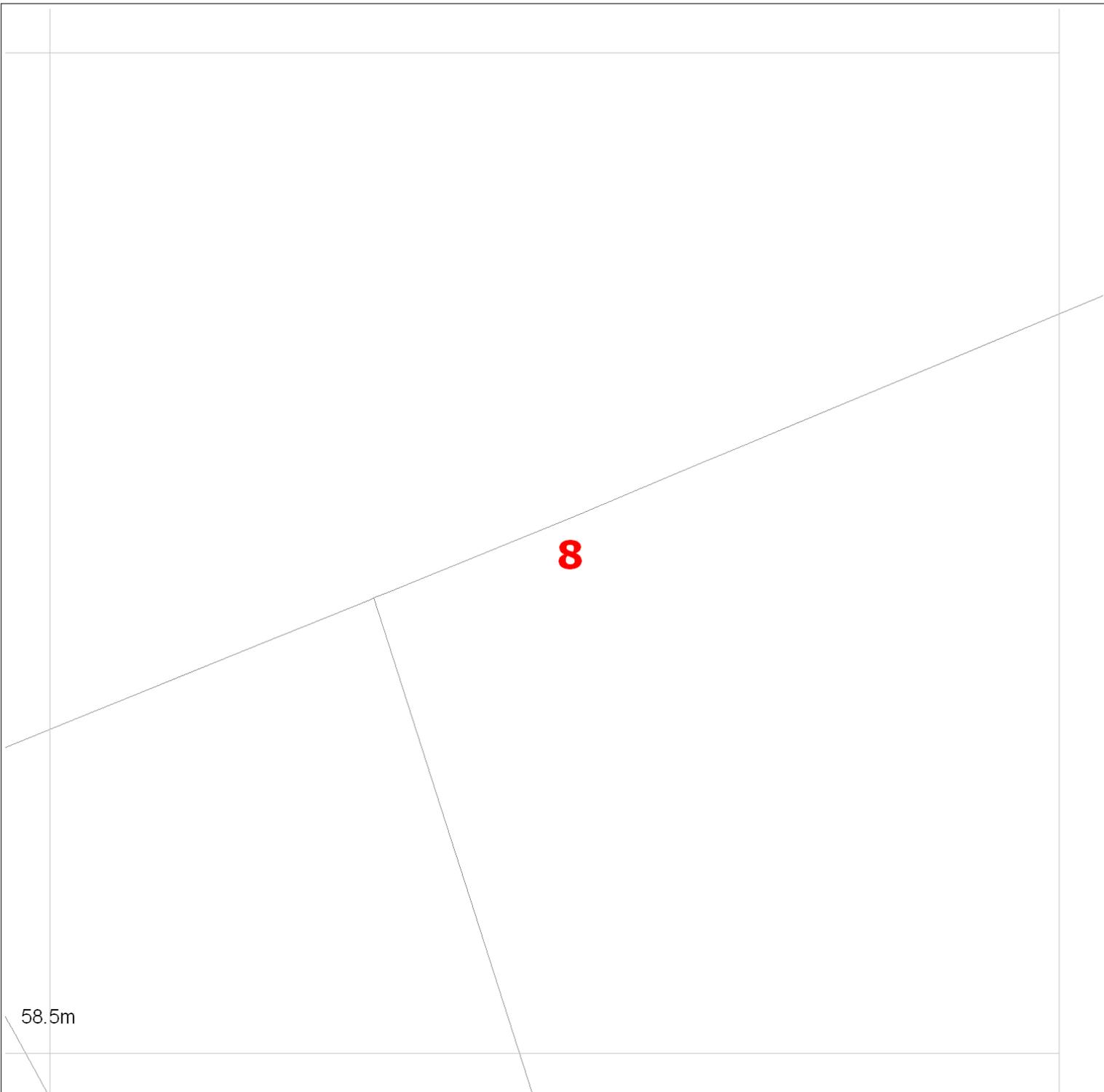
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Your Scheme/Reference: 89518/BRK-1

 ZAYO DUCT

 or  ZAYO CHAMBER

Dig Sites:  Line  Area 

Scale on A4 paper: 1:1000



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Mutton Lane, Potters Bar  
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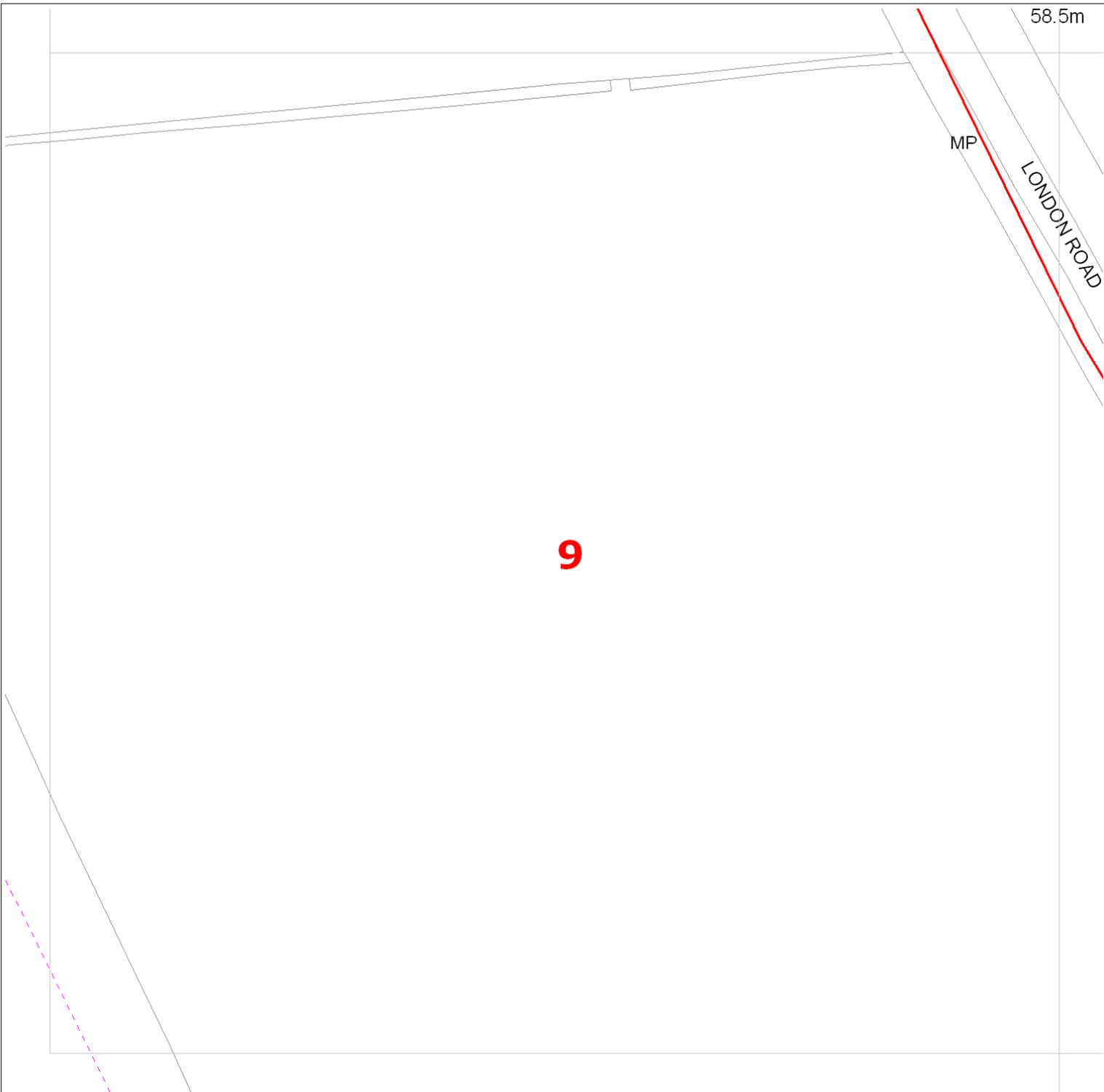
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Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20279938

Your Scheme/Reference: 89518/BRK-1

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 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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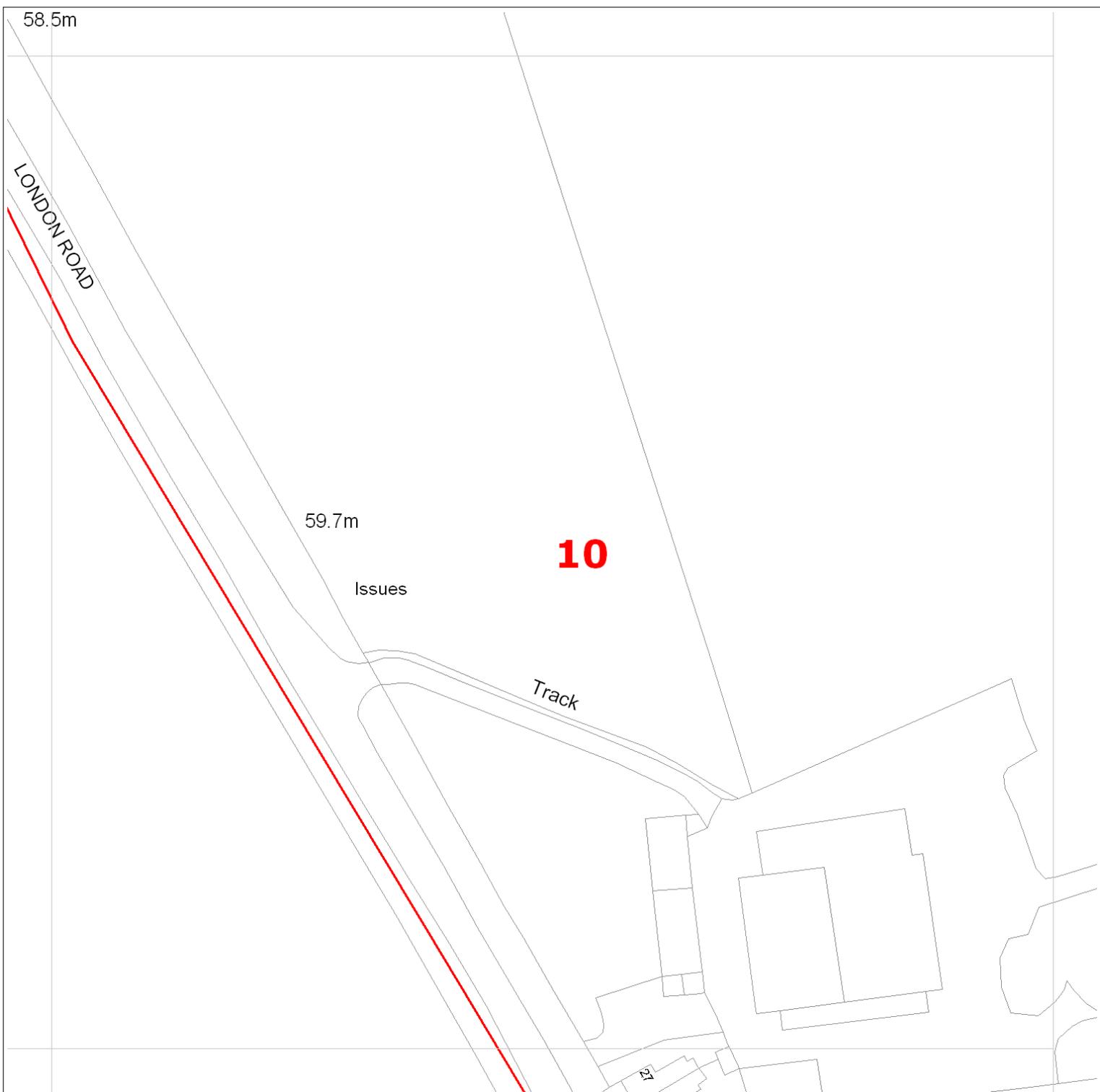


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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20279938

Your Scheme/Reference: 89518/BRK-1

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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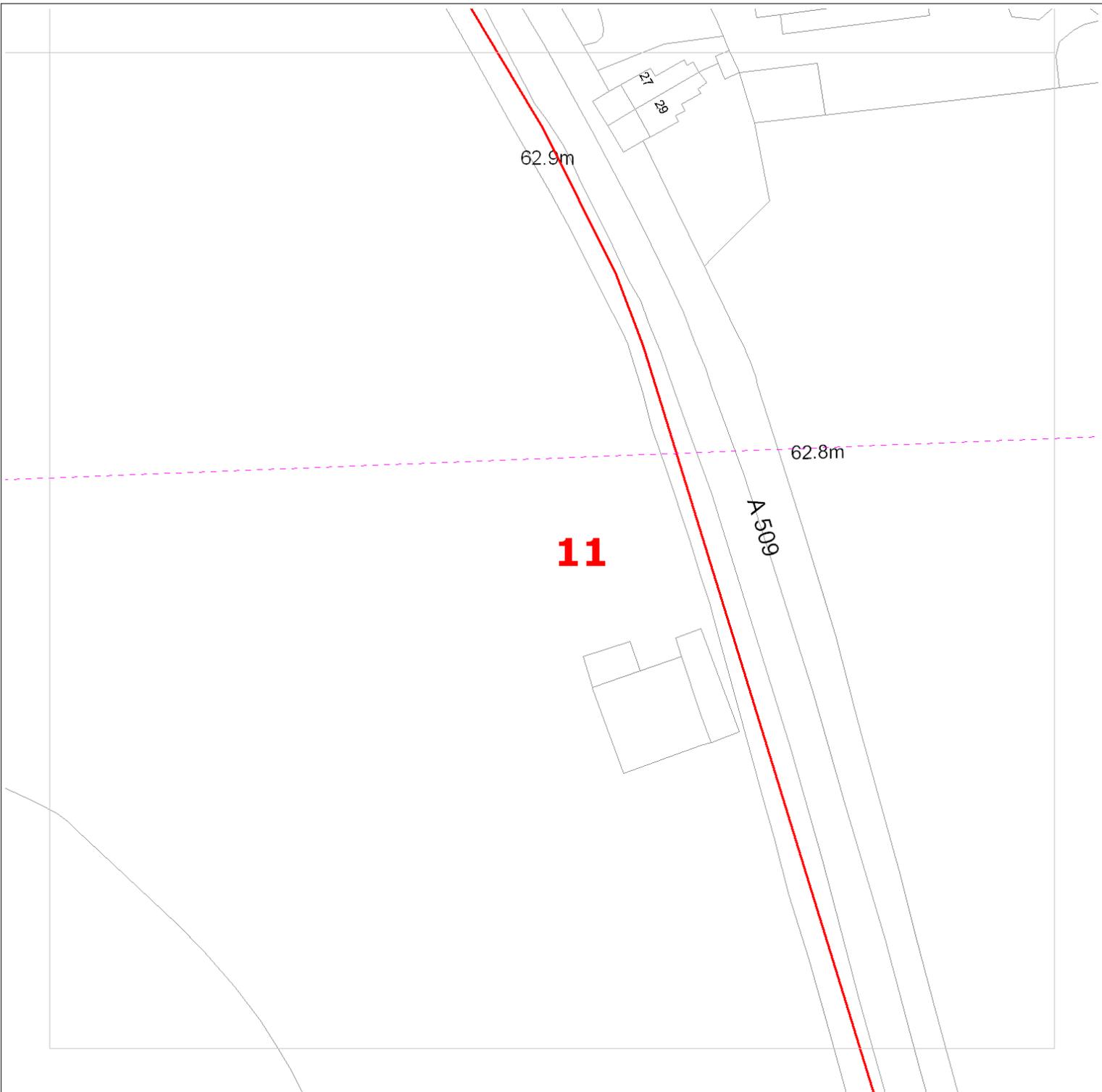
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Date Requested: 21/10/2020  
 Requested by: Chrissy Elliott  
 Company: Atkins  
 Job Reference: 20279938  
 Your Scheme/Reference: 89518/BRK-1

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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**Miss Chrissy Elliott**  
**Atkins**  
**The Hub 500 Park Avenue, Aztec West, Patchway**  
**Almondsbury Bristol**  
**BS32 4RZ**

**Zayo Plant Protection Centre**  
c/o JSM Group Ltd  
Plant Protection Department  
Sterling House  
Mutton Lane  
Potters Bar  
Herts, EN6 3AR

**Date: 21/10/2020**

**Your Reference: 89518/BRK-2**

**Our Reference: 20280161**

**Dear Miss Chrissy Elliott,**

#### **ZAYO GROUP LTD UK AFFECTED C2 PRELIMINARY PLANT ENQUIRY**

**We acknowledge with thanks your request dated 21/10/2020 12:32:38 PM for information on the location of our assets.**

We confirm we have reviewed your proposed plan and have enclosed maps of the area in which Zayo Group UK Ltd have apparatus.

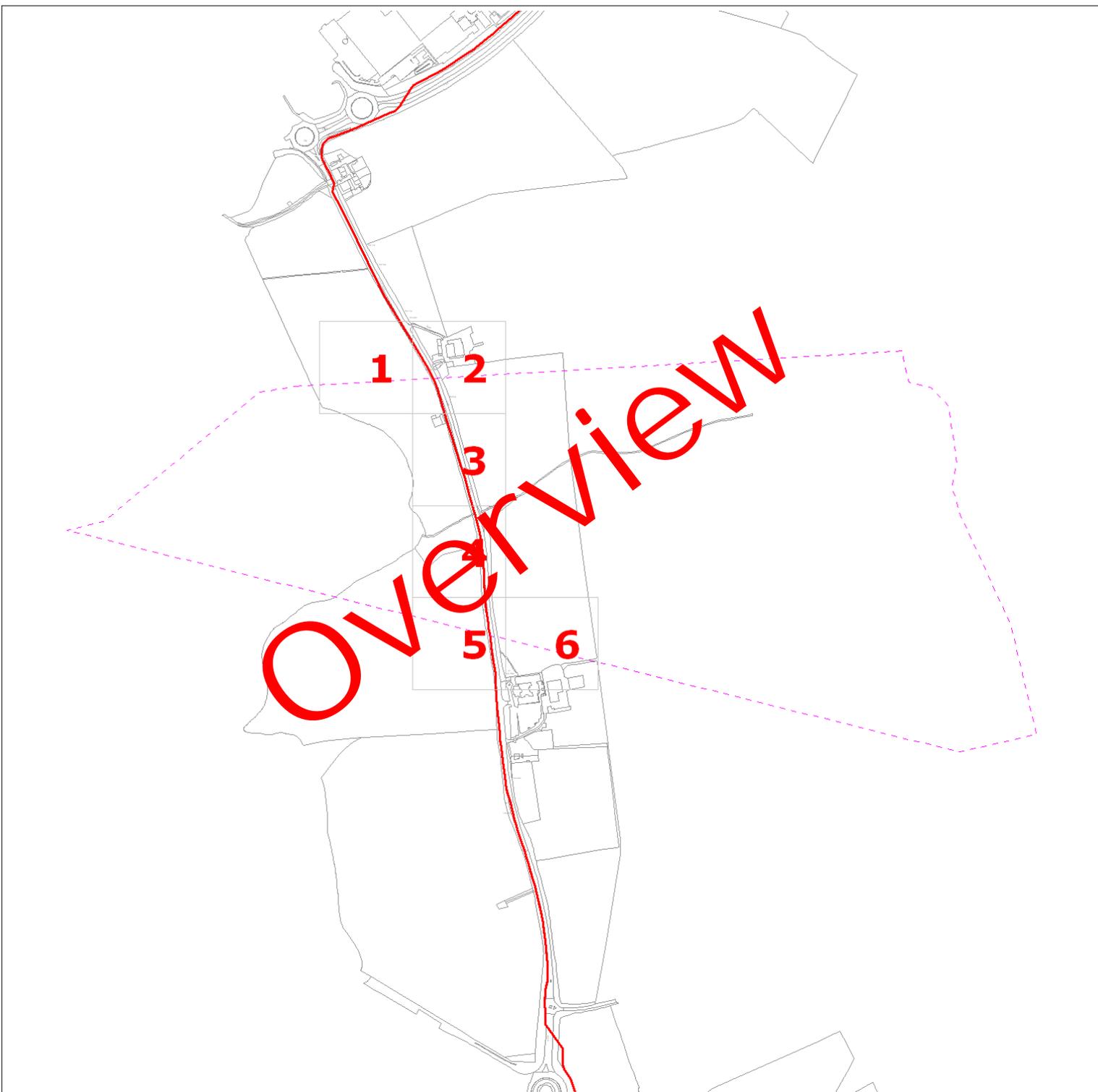
Please note these maps indicate approximate location only and their accuracy cannot be guaranteed. To determine the exact location a trial hole must be dug using extreme caution and hand dig methods only. Please refer to the attached document "Guide to Excavation within the vicinity of Zayo Apparatus".

Please forward all C3 and C4 Diversionary Estimate requests for diversionary works under the New Roads and Street Works Act 1991 "Measures necessary where apparatus is affected by Major Works (Diversionary Works), A Code of Practice", to [zayodiversions@jsmgroup.com](mailto:zayodiversions@jsmgroup.com).

Please do not hesitate to contact us for further assistance.

Yours faithfully,

Zayo Group UK Ltd c/o JSM Group Ltd  
JSM Plant Protection Department  
T: 01992 655 919  
[zayoplantenquiries@jsmgroup.com](mailto:zayoplantenquiries@jsmgroup.com)



Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280161

Your Scheme/Reference: 89518/BRK-2

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 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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Hertfordshire, EN6 3AR  
T: 01992 788 019



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[zayoplantenquiries@jsmgroup.com](mailto:zayoplantenquiries@jsmgroup.com)

1

Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280161

Your Scheme/Reference: 89518/BRK-2

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280161

Your Scheme/Reference: 89518/BRK-2

 ZAYO DUCT

 or  ZAYO CHAMBER

Dig Sites: Line  Area 

Scale on A4 paper: 1:1000



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Company: Atkins

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 Dig Sites: Line  Area   
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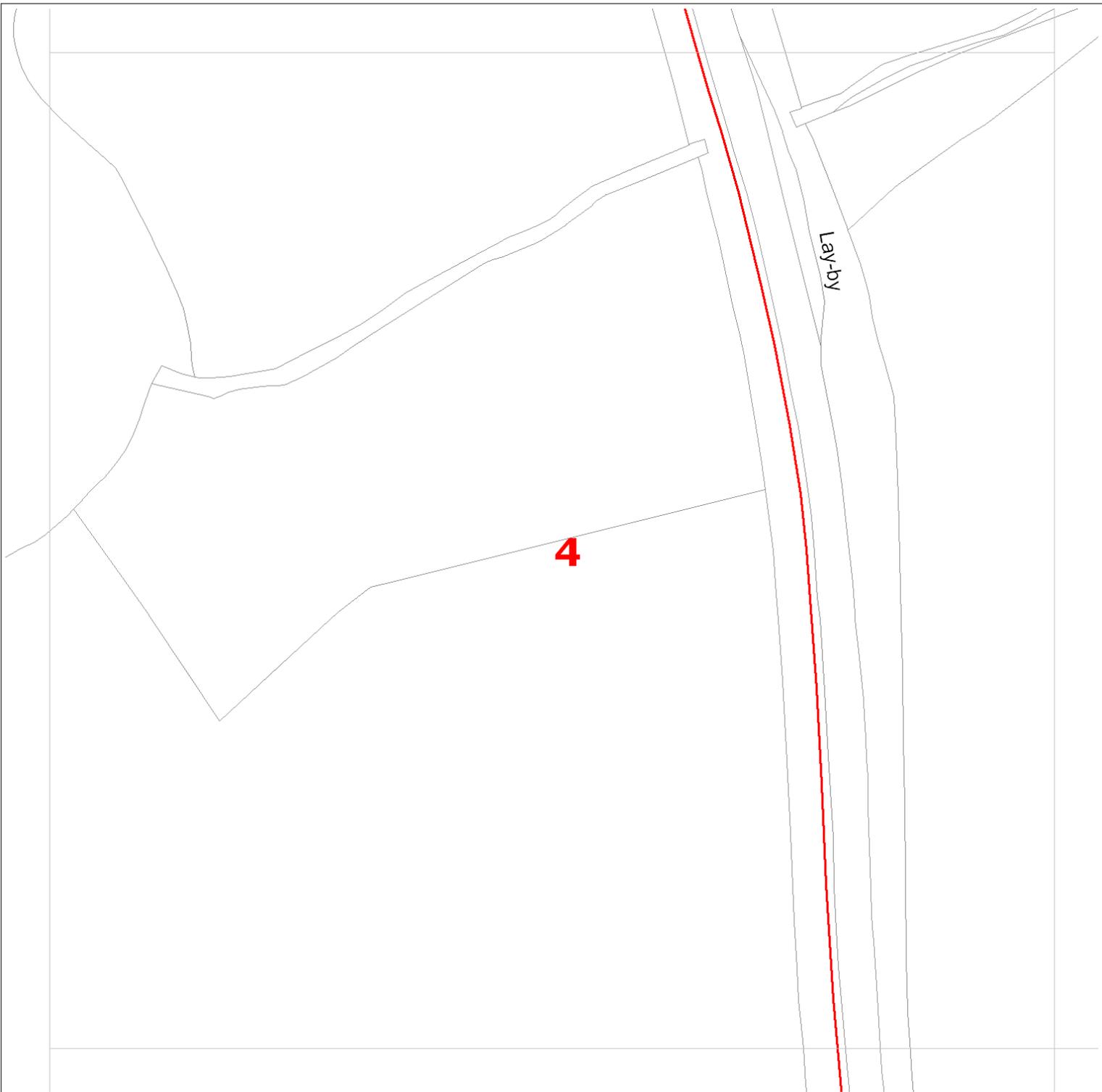
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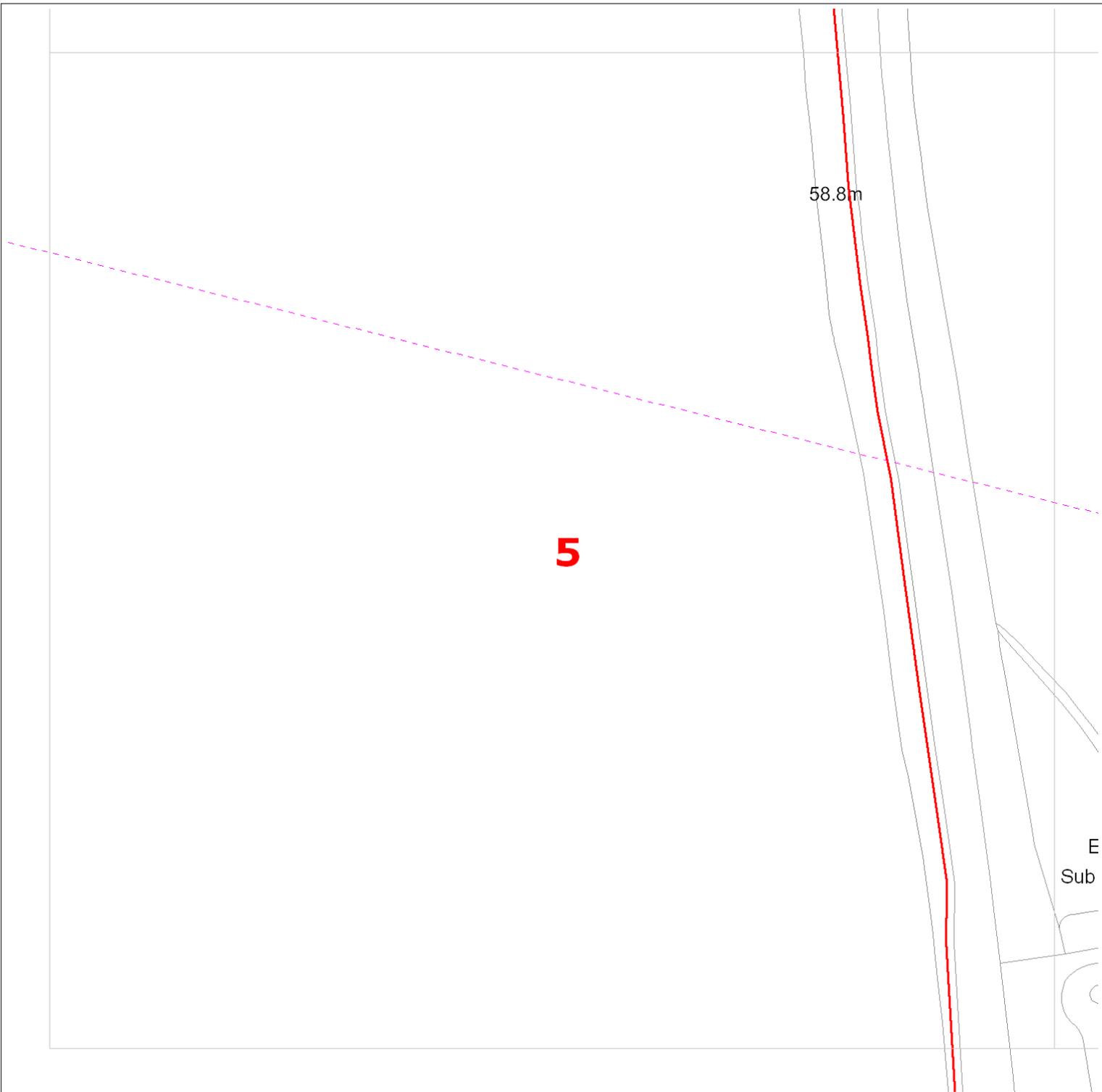
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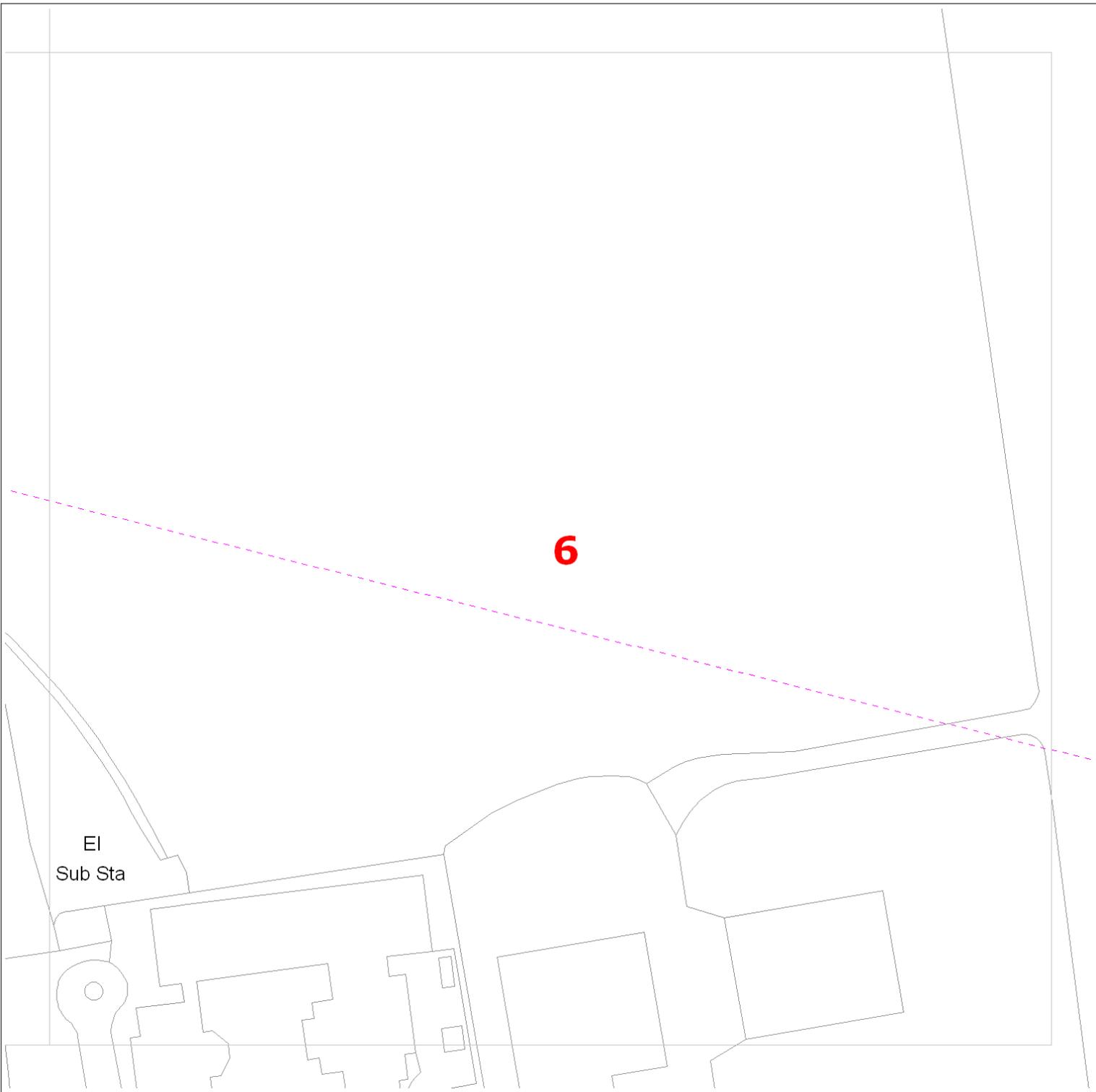


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**Miss Chrissy Elliott**  
**Atkins**  
**The Hub 500 Park Avenue, Aztec West, Patchway**  
**Almondsbury Bristol**  
**BS32 4RZ**

**Zayo Plant Protection Centre**  
c/o JSM Group Ltd  
Plant Protection Department  
Sterling House  
Mutton Lane  
Potters Bar  
Herts, EN6 3AR

**Date: 21/10/2020**

**Your Reference: 89518/BRK-3**

**Our Reference: 20280238**

**Dear Miss Chrissy Elliott,**

#### **ZAYO GROUP LTD UK AFFECTED C2 PRELIMINARY PLANT ENQUIRY**

**We acknowledge with thanks your request dated 21/10/2020 12:36:44 PM for information on the location of our assets.**

We confirm we have reviewed your proposed plan and have enclosed maps of the area in which Zayo Group UK Ltd have apparatus.

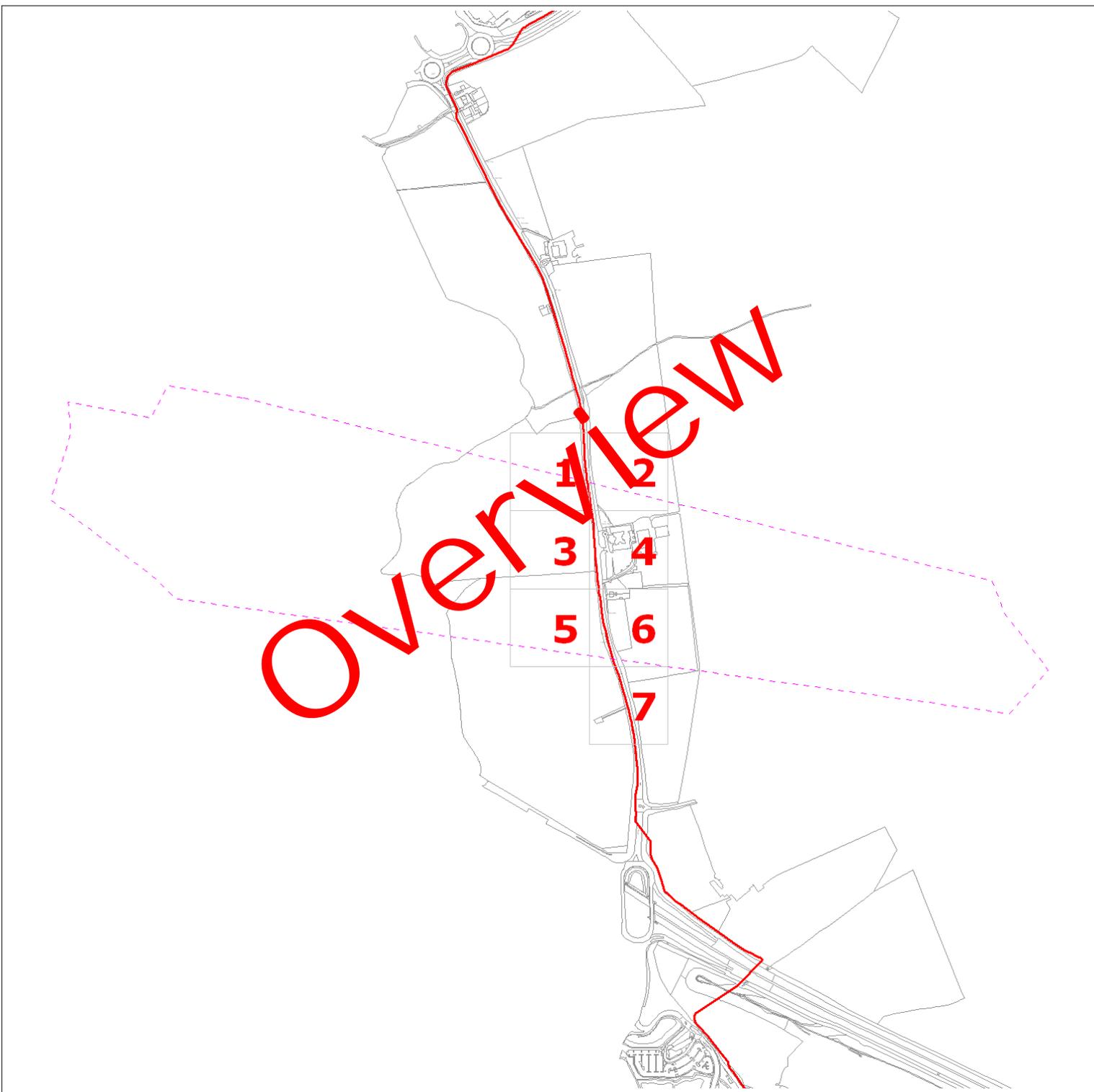
Please note these maps indicate approximate location only and their accuracy cannot be guaranteed. To determine the exact location a trial hole must be dug using extreme caution and hand dig methods only. Please refer to the attached document "Guide to Excavation within the vicinity of Zayo Apparatus".

Please forward all C3 and C4 Diversionary Estimate requests for diversionary works under the New Roads and Street Works Act 1991 "Measures necessary where apparatus is affected by Major Works (Diversionary Works), A Code of Practice", to [zayodiversion@jsmgroup.com](mailto:zayodiversion@jsmgroup.com).

Please do not hesitate to contact us for further assistance.

Yours faithfully,

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JSM Plant Protection Department  
T: 01992 655 919  
[zayoplantenquiries@jsmgroup.com](mailto:zayoplantenquiries@jsmgroup.com)



Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280238

Your Scheme/Reference: 89518/BRK-3

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 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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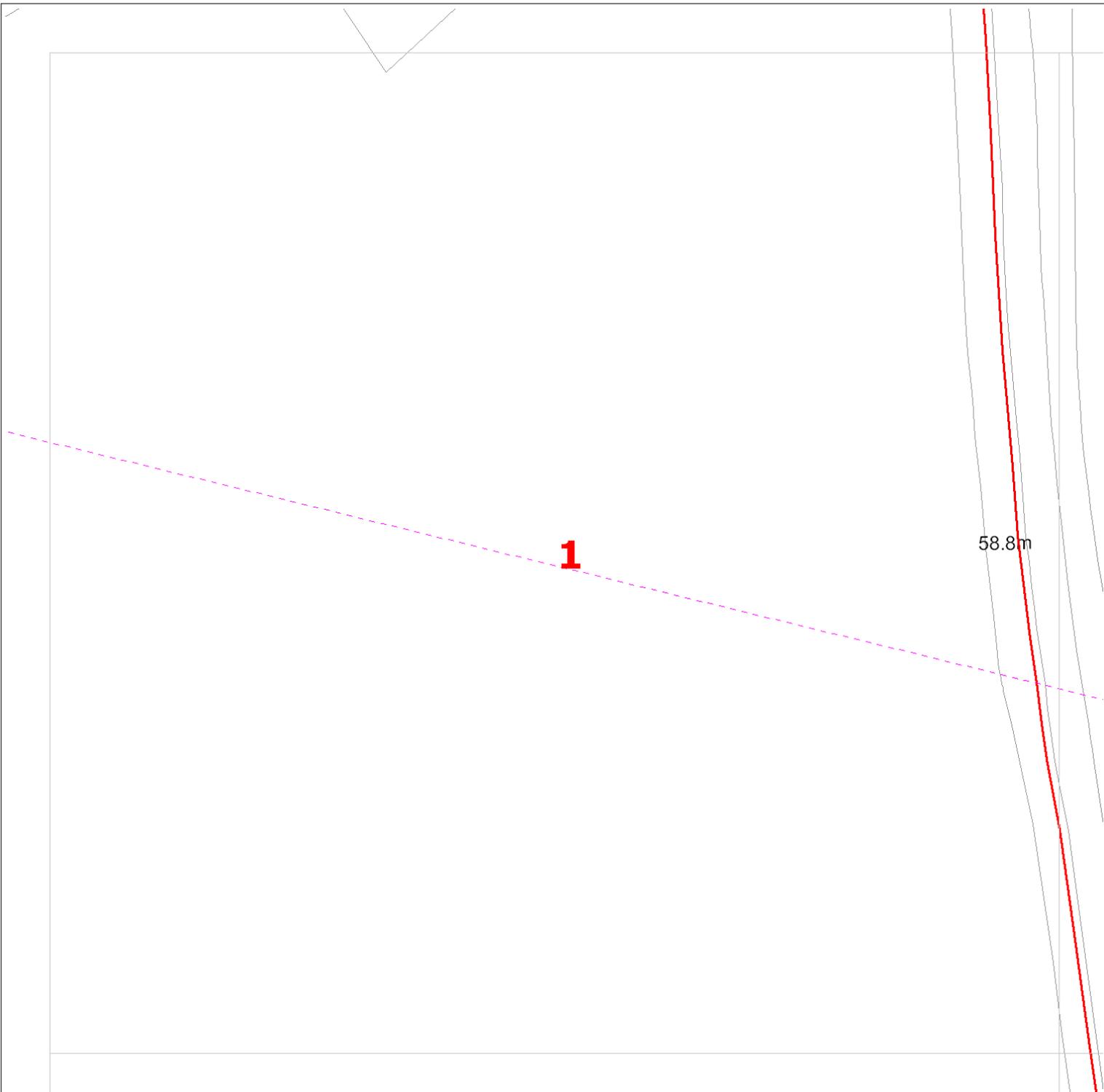
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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280238

Your Scheme/Reference: 89518/BRK-3

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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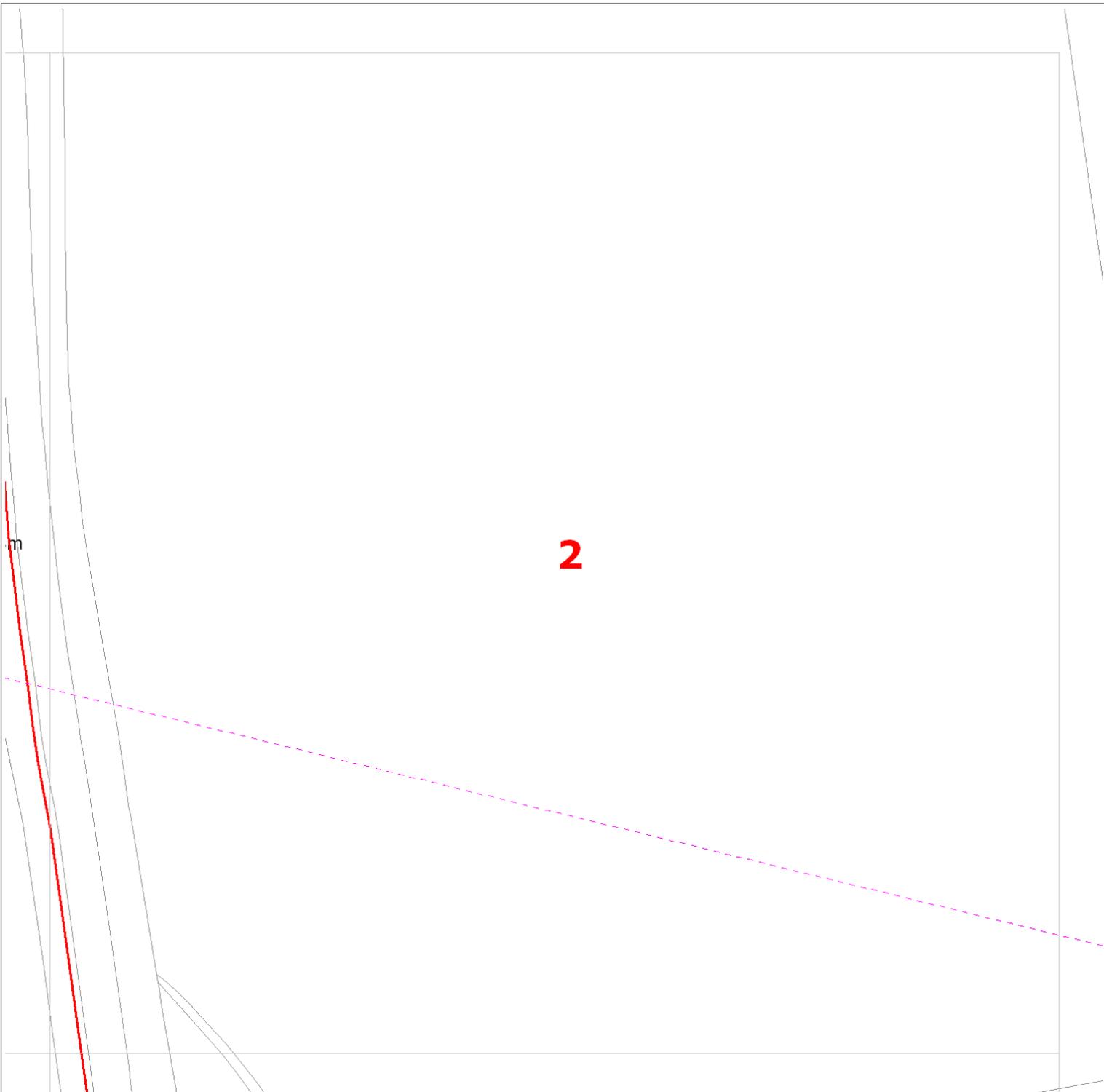
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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280238

Your Scheme/Reference: 89518/BRK-3

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 or  ZAYO CHAMBER

Dig Sites:  Line  Area 

Scale on A4 paper: 1:1000



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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280238

Your Scheme/Reference: 89518/BRK-3

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Dig Sites: Line  Area   
Scale on A4 paper: 1:1000

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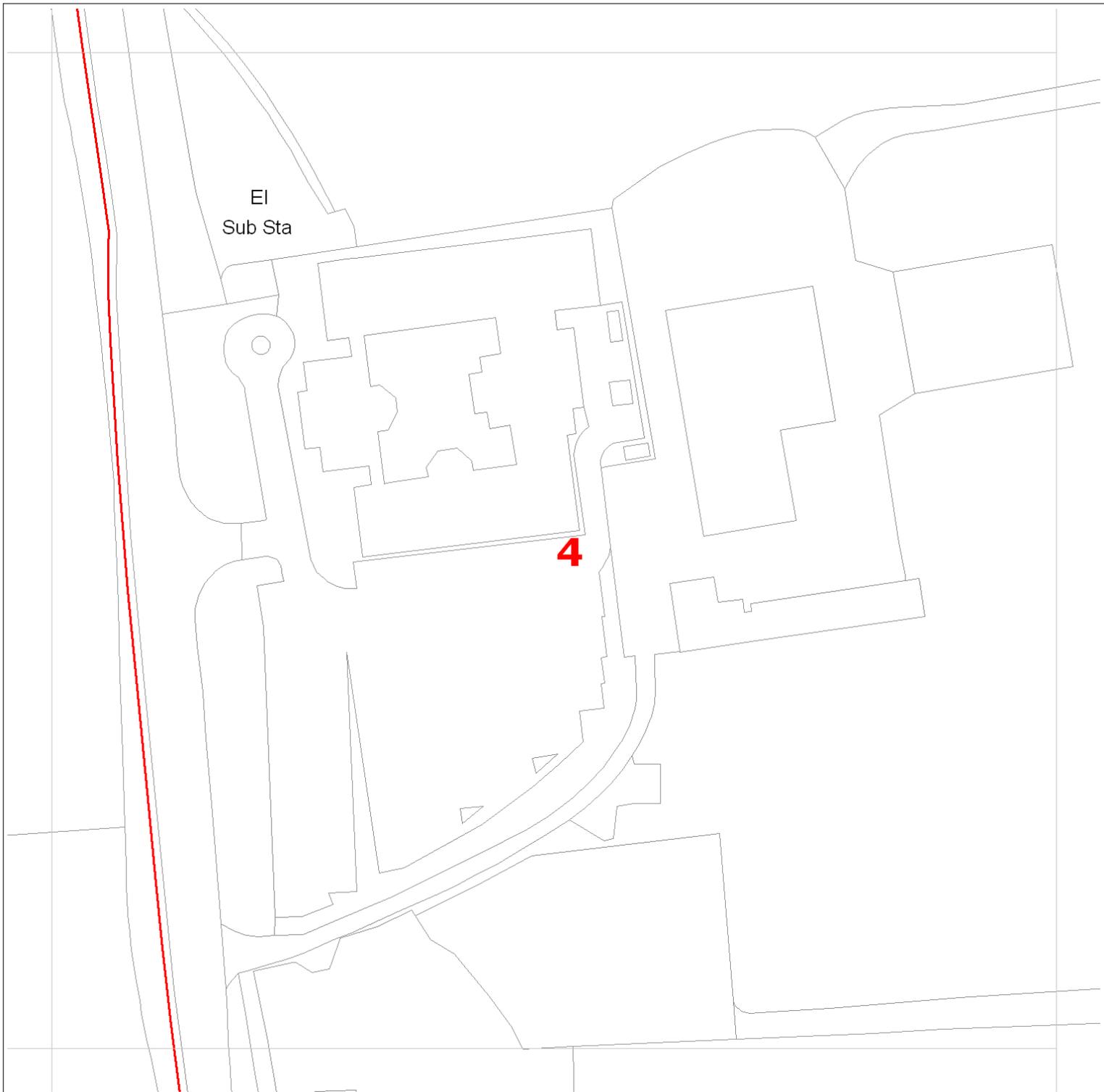
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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280238

Your Scheme/Reference: 89518/BRK-3

 ZAYO DUCT  
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 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



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Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280238

Your Scheme/Reference: 89518/BRK-3

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Dig Sites: Line  Area 

Scale on A4 paper: 1:1000

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 ZAYO DUCT

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Dig Sites: Line  Area 

Scale on A4 paper: 1:1000



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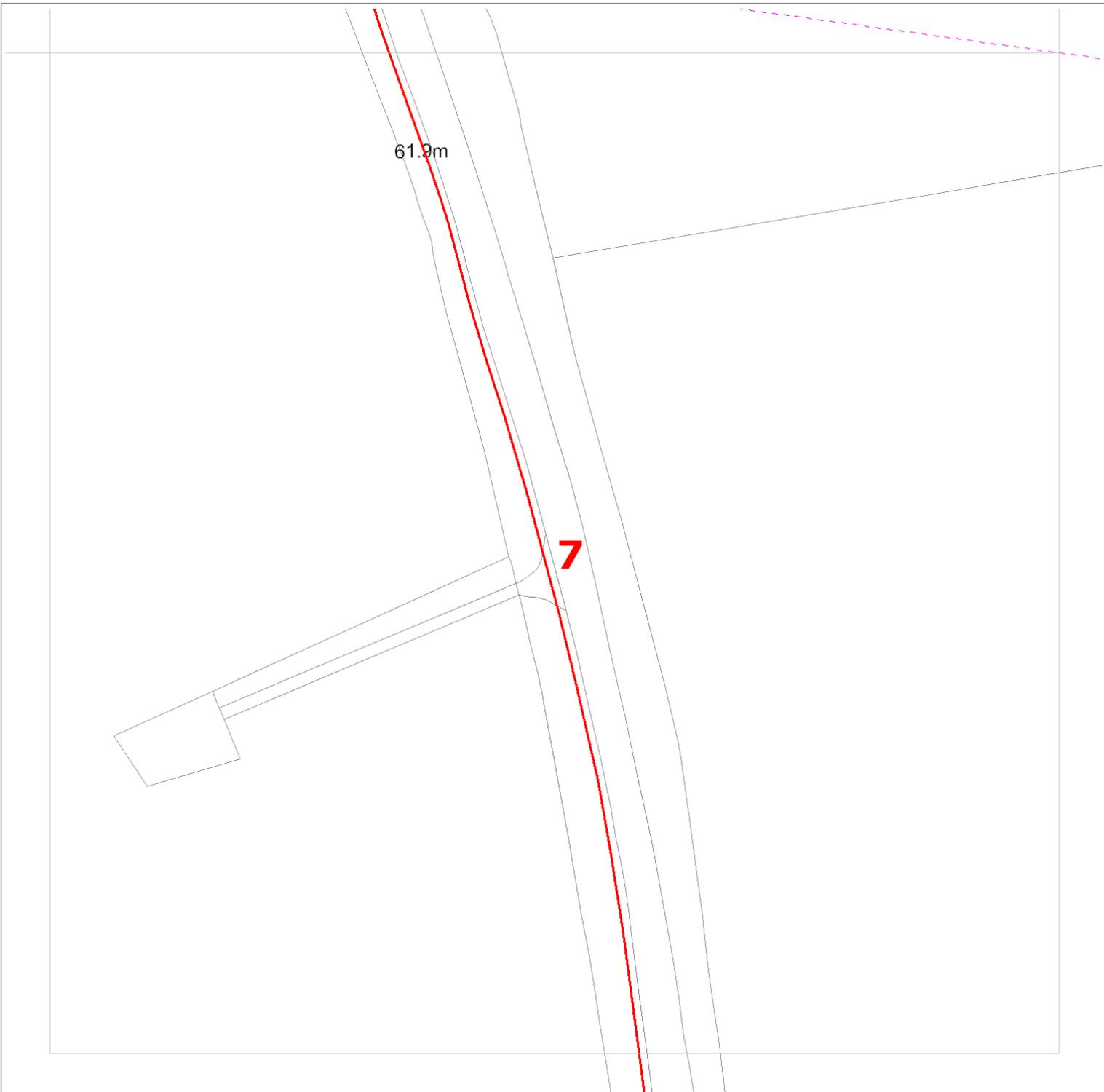
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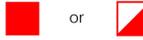
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Company: Atkins

Job Reference: 20280238

Your Scheme/Reference: 89518/BRK-3

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**Atkins**  
**The Hub 500 Park Avenue, Aztec West, Patchway**  
**Almondsbury Bristol**  
**BS32 4RZ**

**Zayo Plant Protection Centre**  
c/o JSM Group Ltd  
Plant Protection Department  
Sterling House  
Mutton Lane  
Potters Bar  
Herts, EN6 3AR

**Date: 21/10/2020**

**Your Reference: 89518/BRK-4**

**Our Reference: 20280294**

**Dear Miss Chrissy Elliott,**

#### **ZAYO GROUP LTD UK AFFECTED C2 PRELIMINARY PLANT ENQUIRY**

**We acknowledge with thanks your request dated 21/10/2020 12:38:48 PM for information on the location of our assets.**

We confirm we have reviewed your proposed plan and have enclosed maps of the area in which Zayo Group UK Ltd have apparatus.

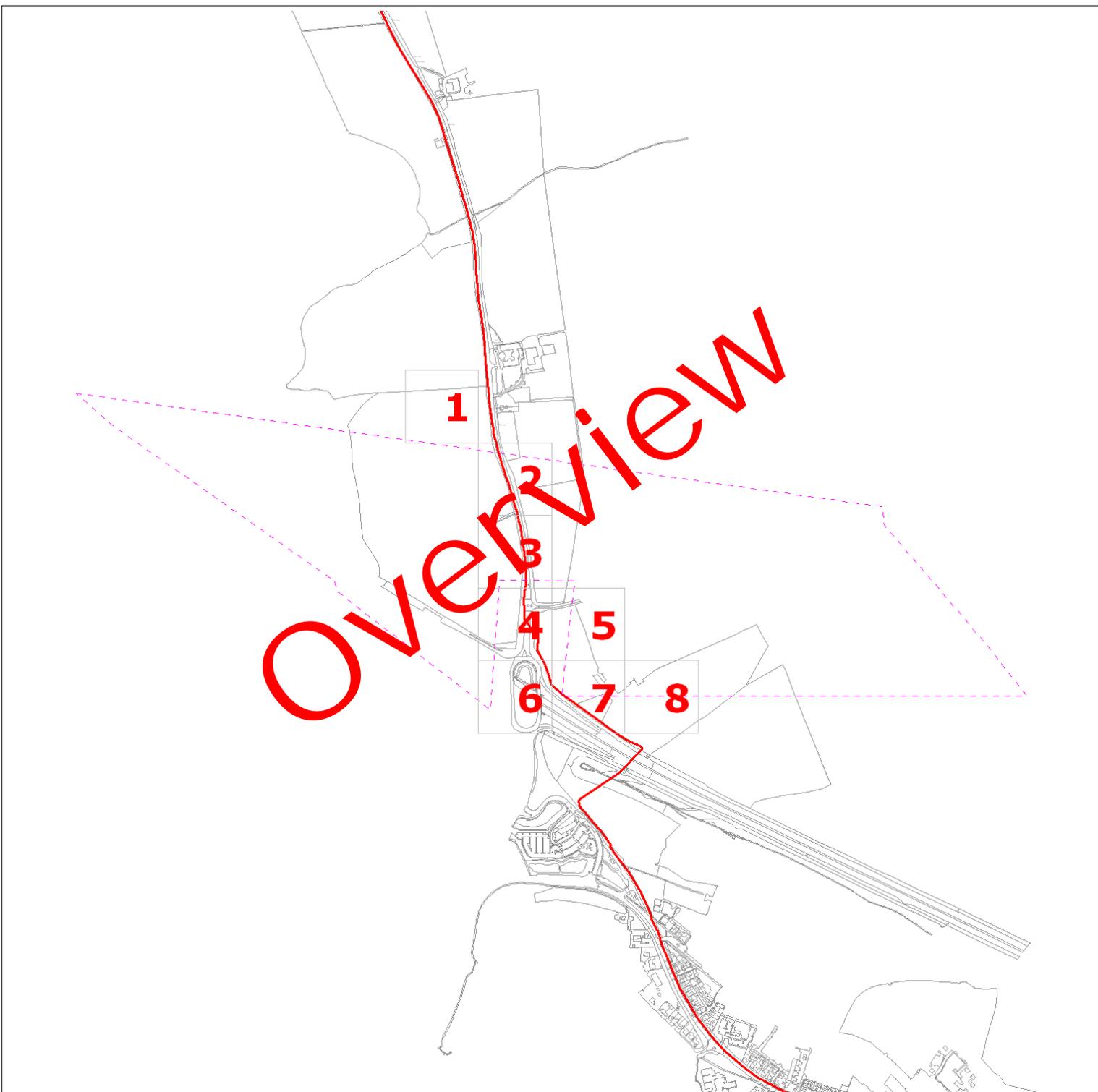
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Please do not hesitate to contact us for further assistance.

Yours faithfully,

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JSM Plant Protection Department  
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[zayoplantenquiries@jsmgroup.com](mailto:zayoplantenquiries@jsmgroup.com)



Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280294

Your Scheme/Reference: 89518/BRK-4

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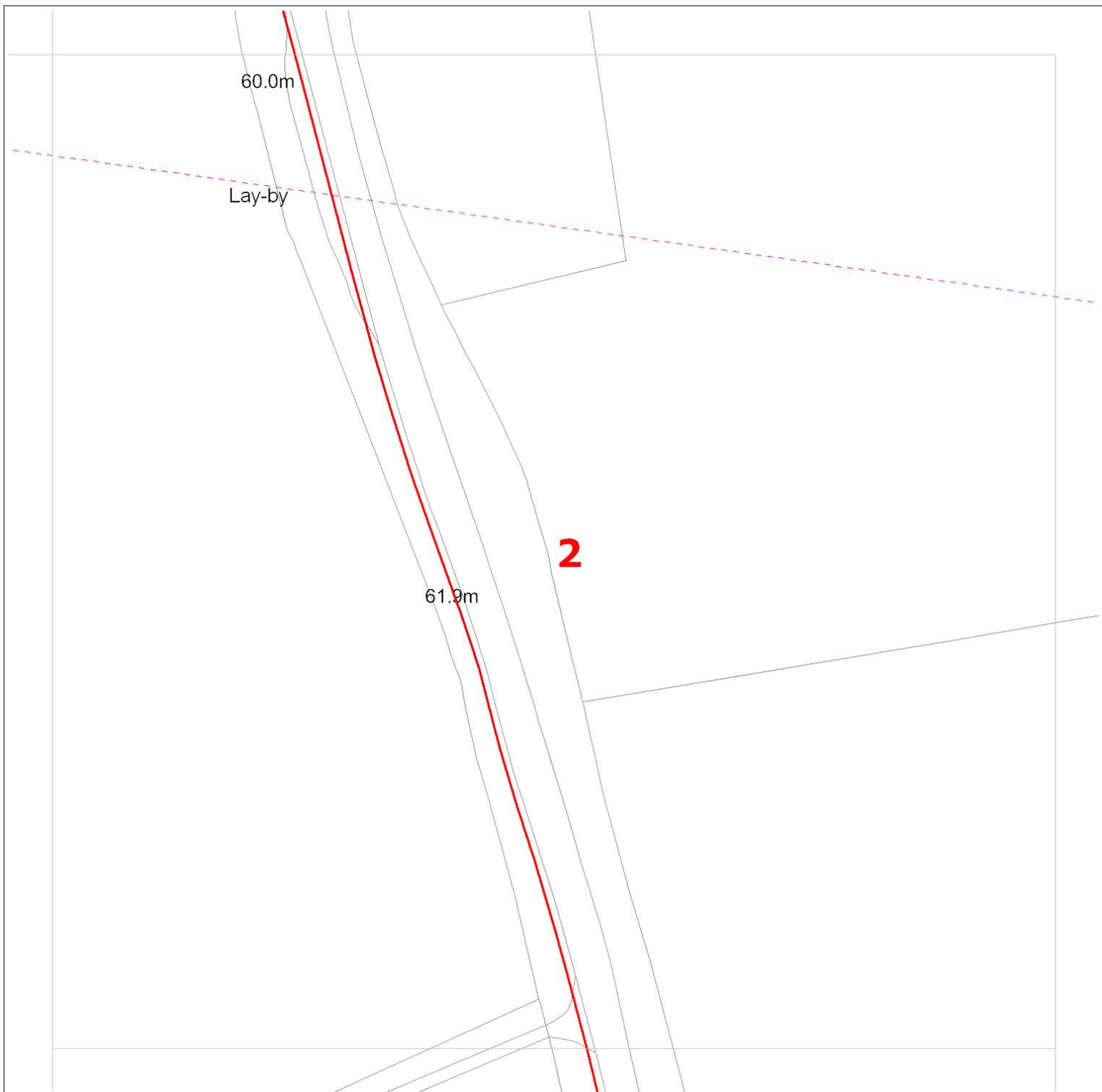
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Company: Atkins

Job Reference: 20280294

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[zayoplantenquiries@jsmgroup.com](mailto:zayoplantenquiries@jsmgroup.com)



Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280294

Your Scheme/Reference: 89518/BRK-4

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line  Area   
 Scale on A4 paper: 1:1000



4th Floor Harmsworth House  
13-15 Bouverie Street  
London EC4Y 8DP

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Mutton Lane, Potters Bar  
Hertfordshire, EN6 3AR  
T: 01992 788 019



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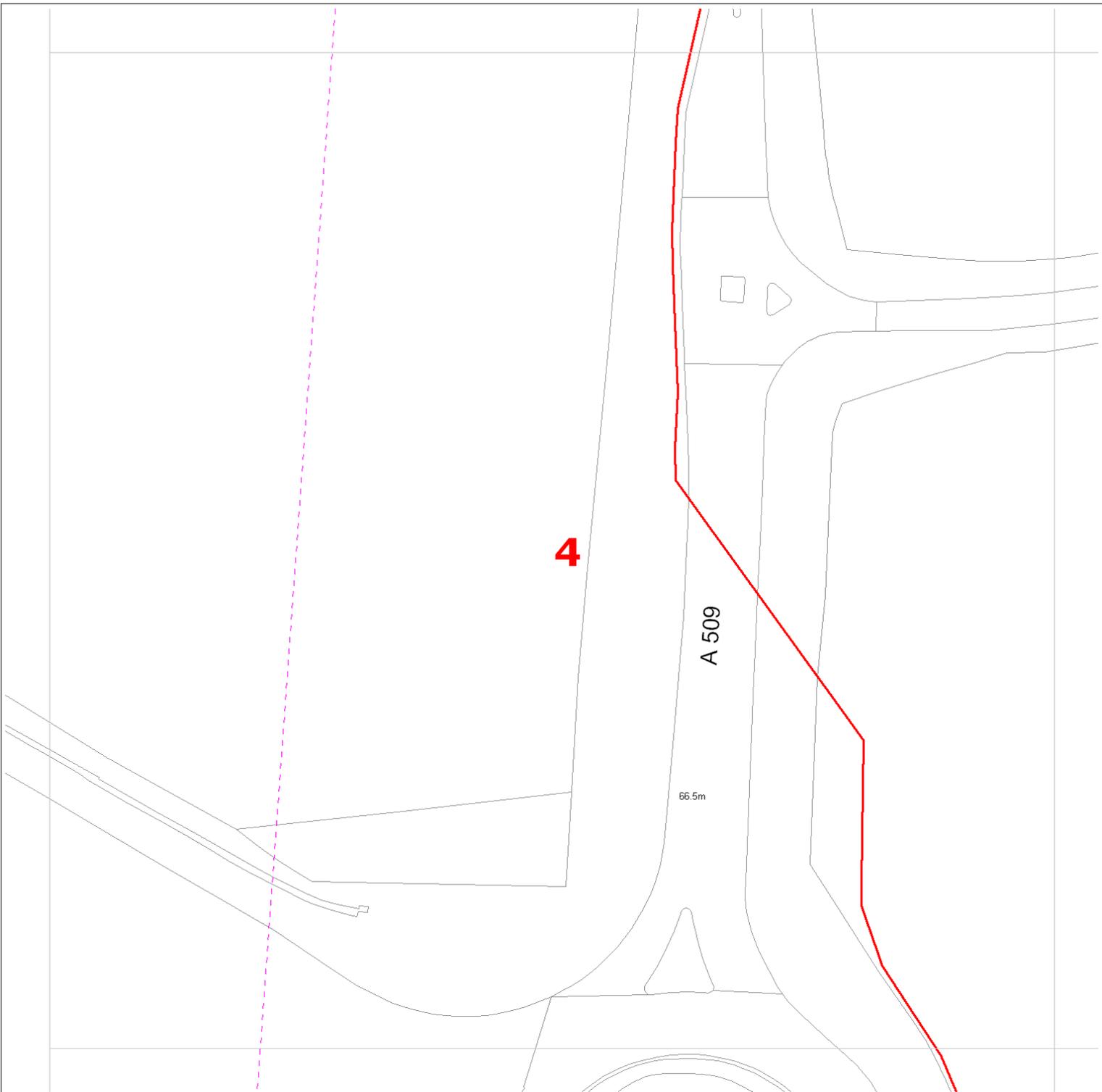
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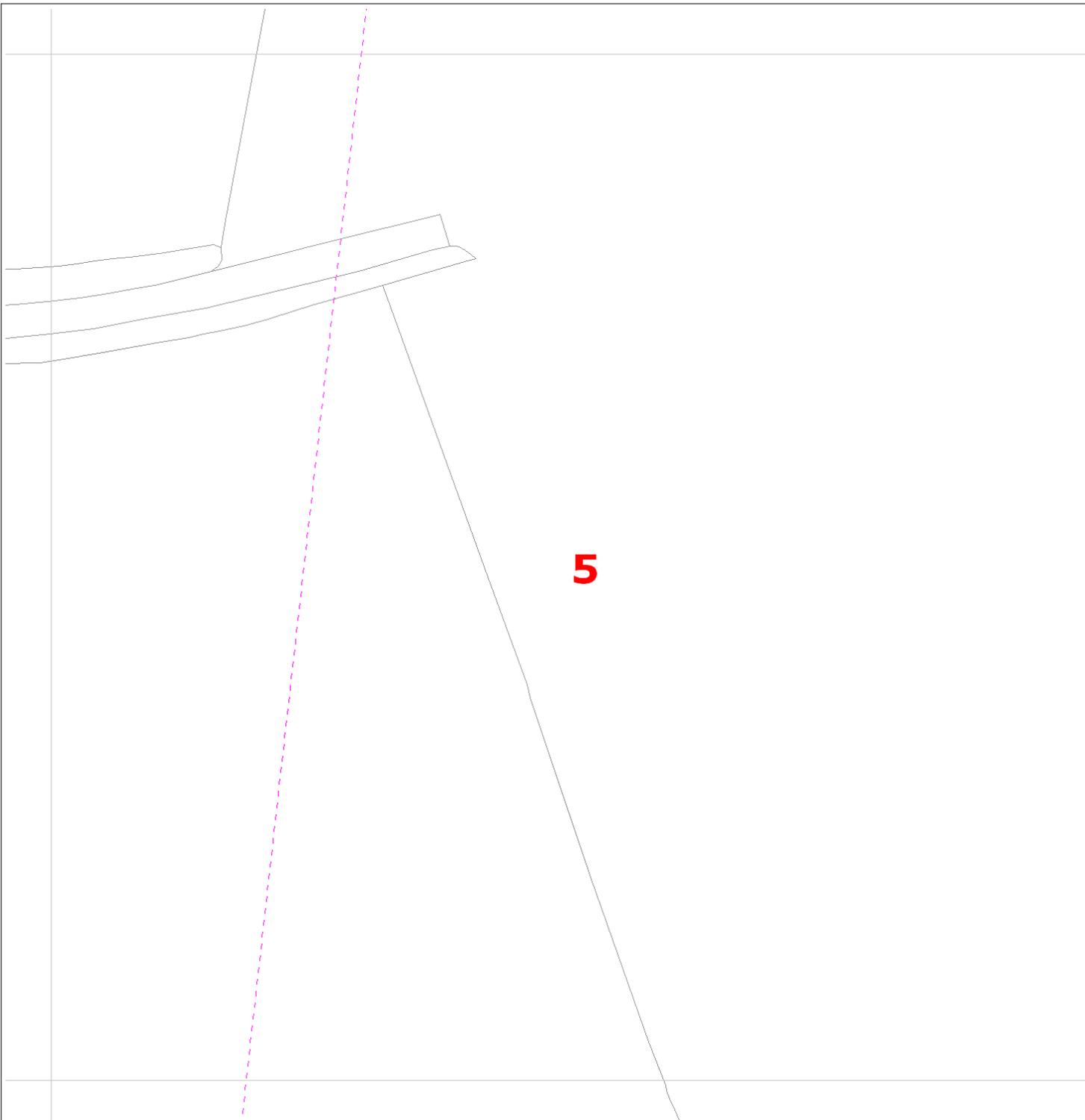
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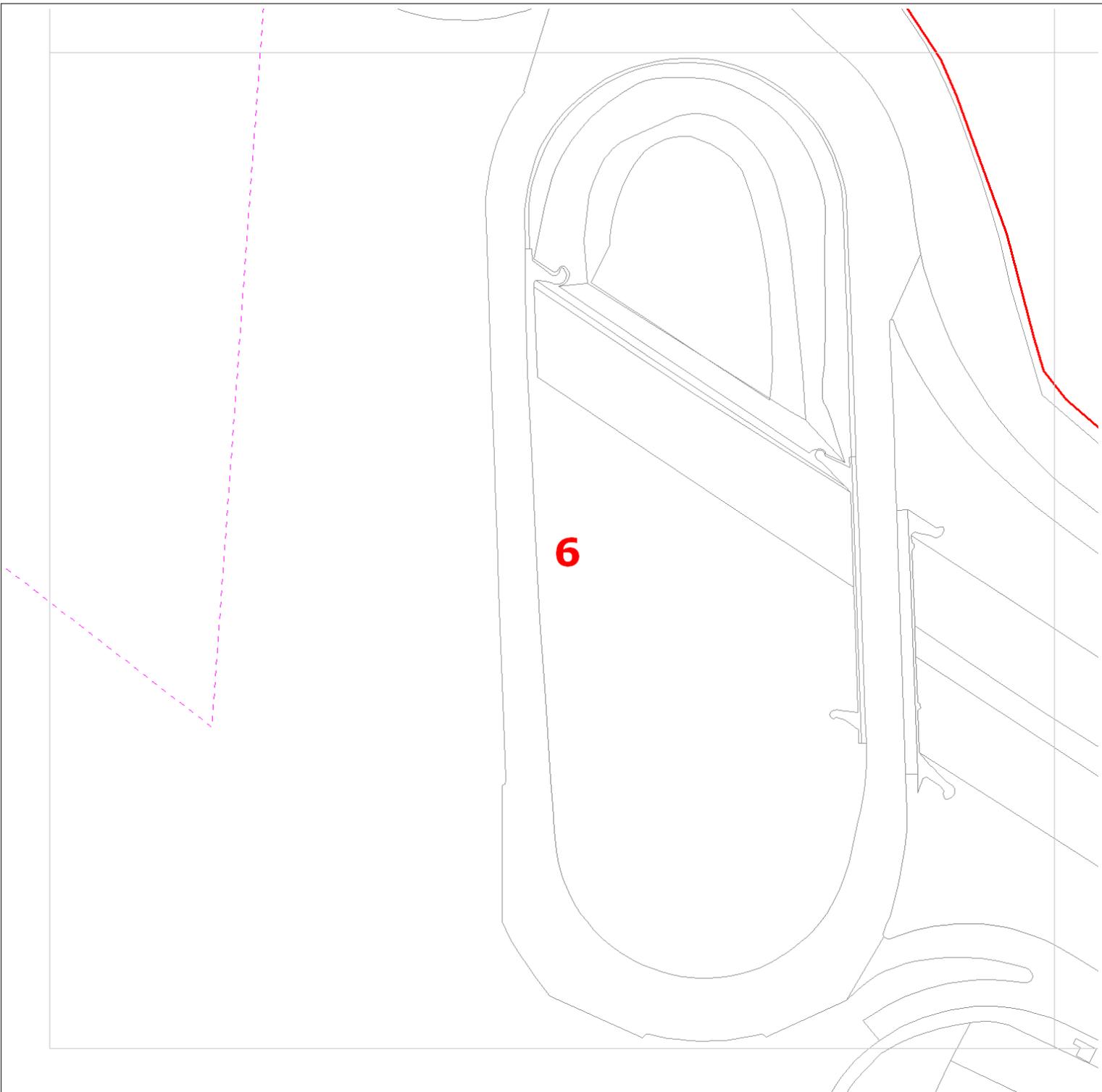
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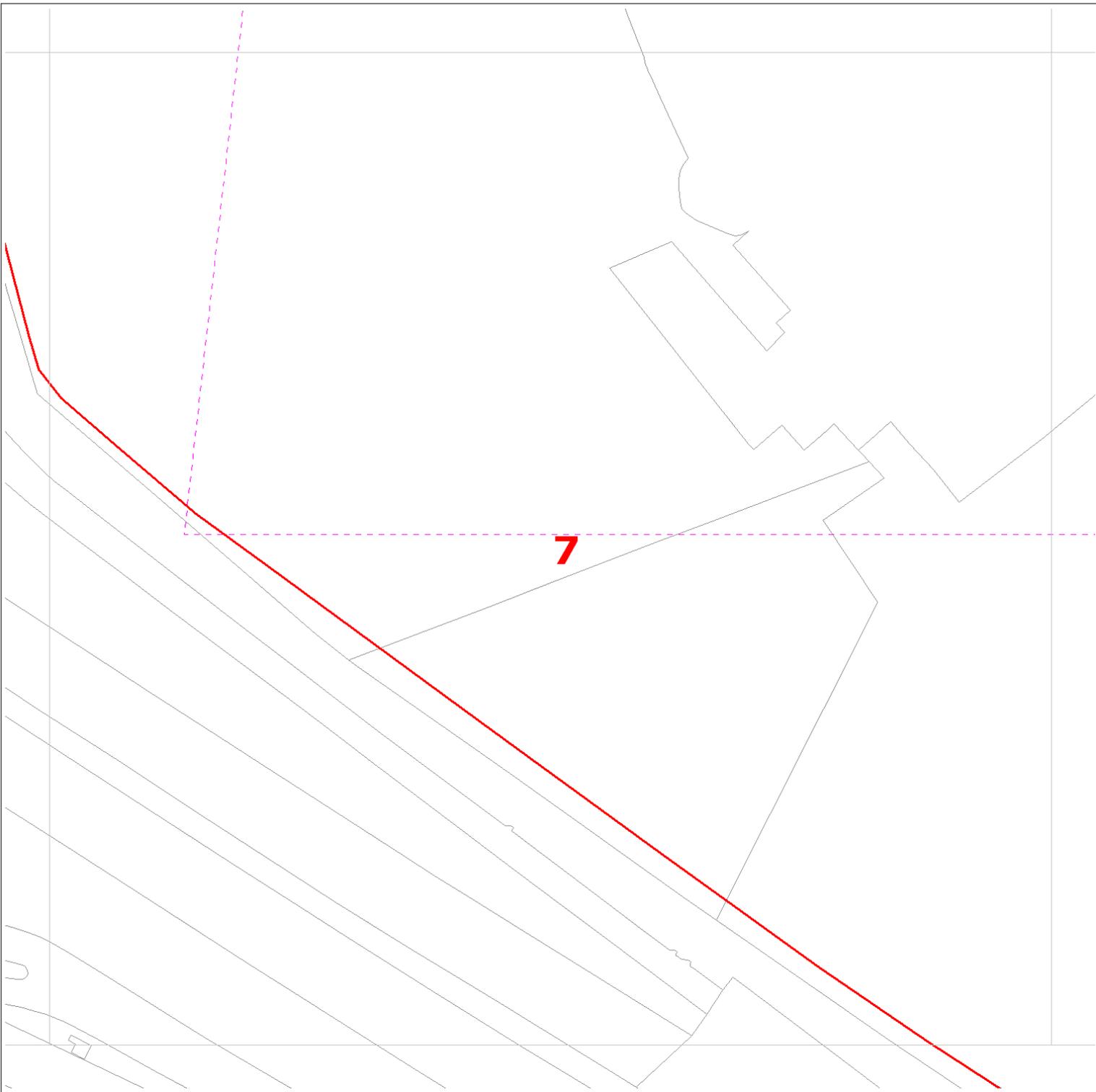
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Dig Sites: Line  Area 

Scale on A4 paper: 1:1000



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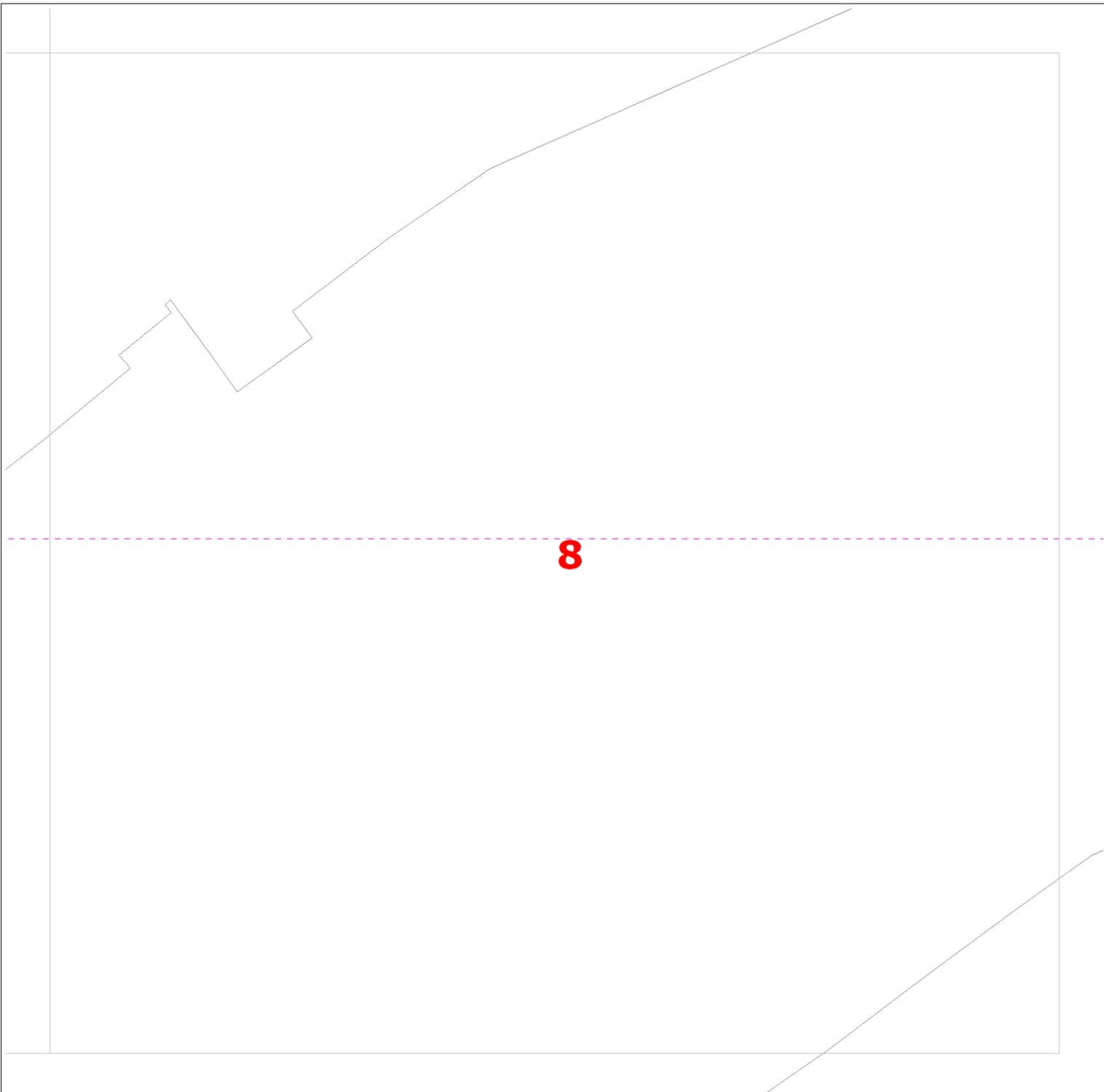
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**Miss Chrissy Elliott**  
**Atkins**  
**The Hub 500 Park Avenue, Aztec West, Patchway**  
**Almondsbury Bristol**  
**BS32 4RZ**

**Zayo Plant Protection Centre**  
c/o JSM Group Ltd  
Plant Protection Department  
Sterling House  
Mutton Lane  
Potters Bar  
Herts, EN6 3AR

**Date: 21/10/2020**

**Your Reference: 89518/BRK-5**

**Our Reference: 20280303**

**Dear Miss Chrissy Elliott,**

#### **ZAYO GROUP LTD UK AFFECTED C2 PRELIMINARY PLANT ENQUIRY**

**We acknowledge with thanks your request dated 21/10/2020 12:38:49 PM for information on the location of our assets.**

We confirm we have reviewed your proposed plan and have enclosed maps of the area in which Zayo Group UK Ltd have apparatus.

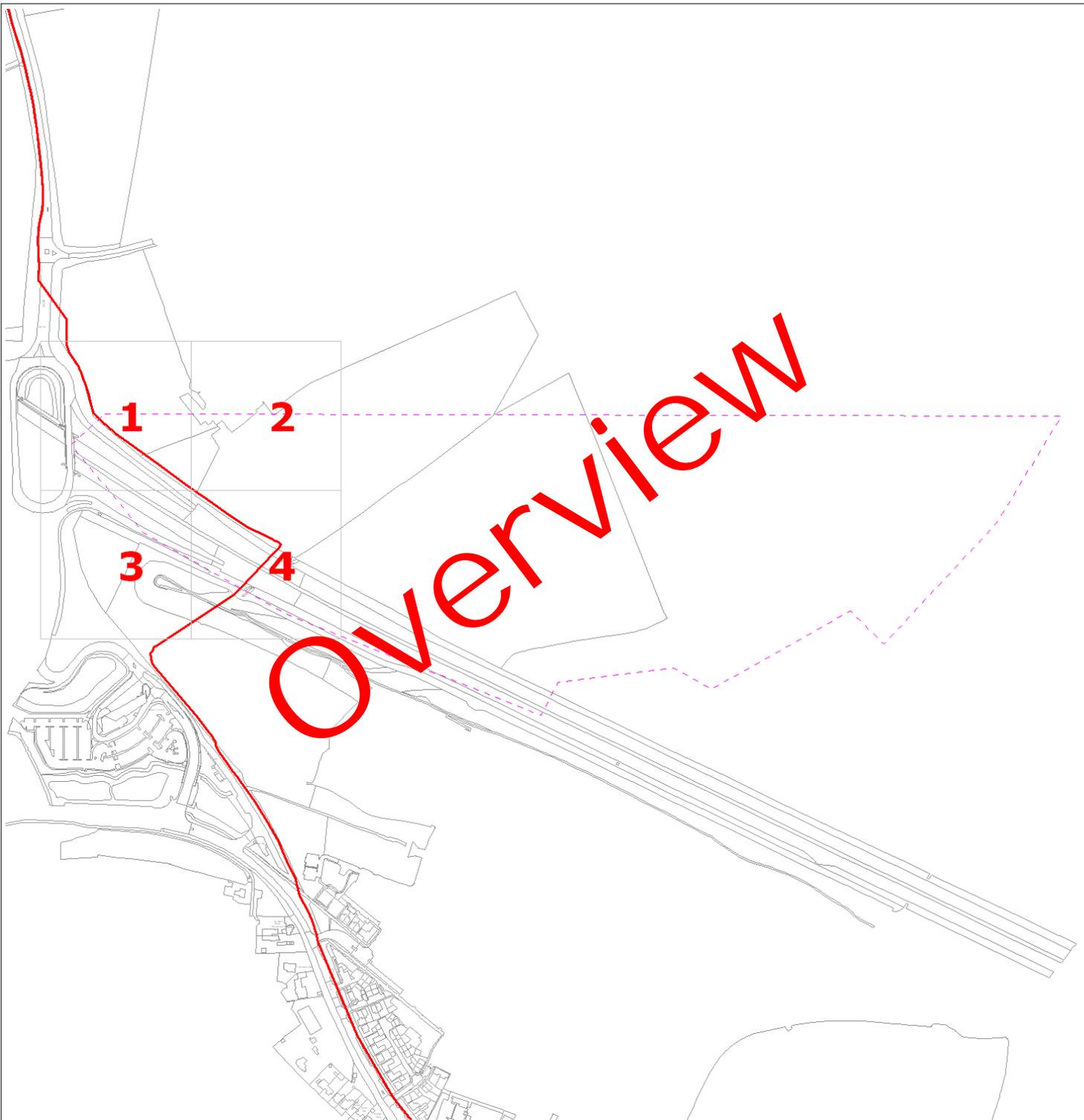
Please note these maps indicate approximate location only and their accuracy cannot be guaranteed. To determine the exact location a trial hole must be dug using extreme caution and hand dig methods only. Please refer to the attached document "Guide to Excavation within the vicinity of Zayo Apparatus".

Please forward all C3 and C4 Diversionary Estimate requests for diversionary works under the New Roads and Street Works Act 1991 "Measures necessary where apparatus is affected by Major Works (Diversionary Works), A Code of Practice", to [zayodiversions@jsmgroup.com](mailto:zayodiversions@jsmgroup.com).

Please do not hesitate to contact us for further assistance.

Yours faithfully,

Zayo Group UK Ltd c/o JSM Group Ltd  
JSM Plant Protection Department  
T: 01992 655 919  
[zayoplantenquiries@jsmgroup.com](mailto:zayoplantenquiries@jsmgroup.com)



Date Requested: 21/10/2020

Requested by: Chrissy Elliott

Company: Atkins

Job Reference: 20280303

Your Scheme/Reference: 89518/BRK-5

 ZAYO DUCT

 or  ZAYO CHAMBER

Dig Sites: Line  Area 

Scale on A4 paper: 1:1000

**zayo**  
GROUP

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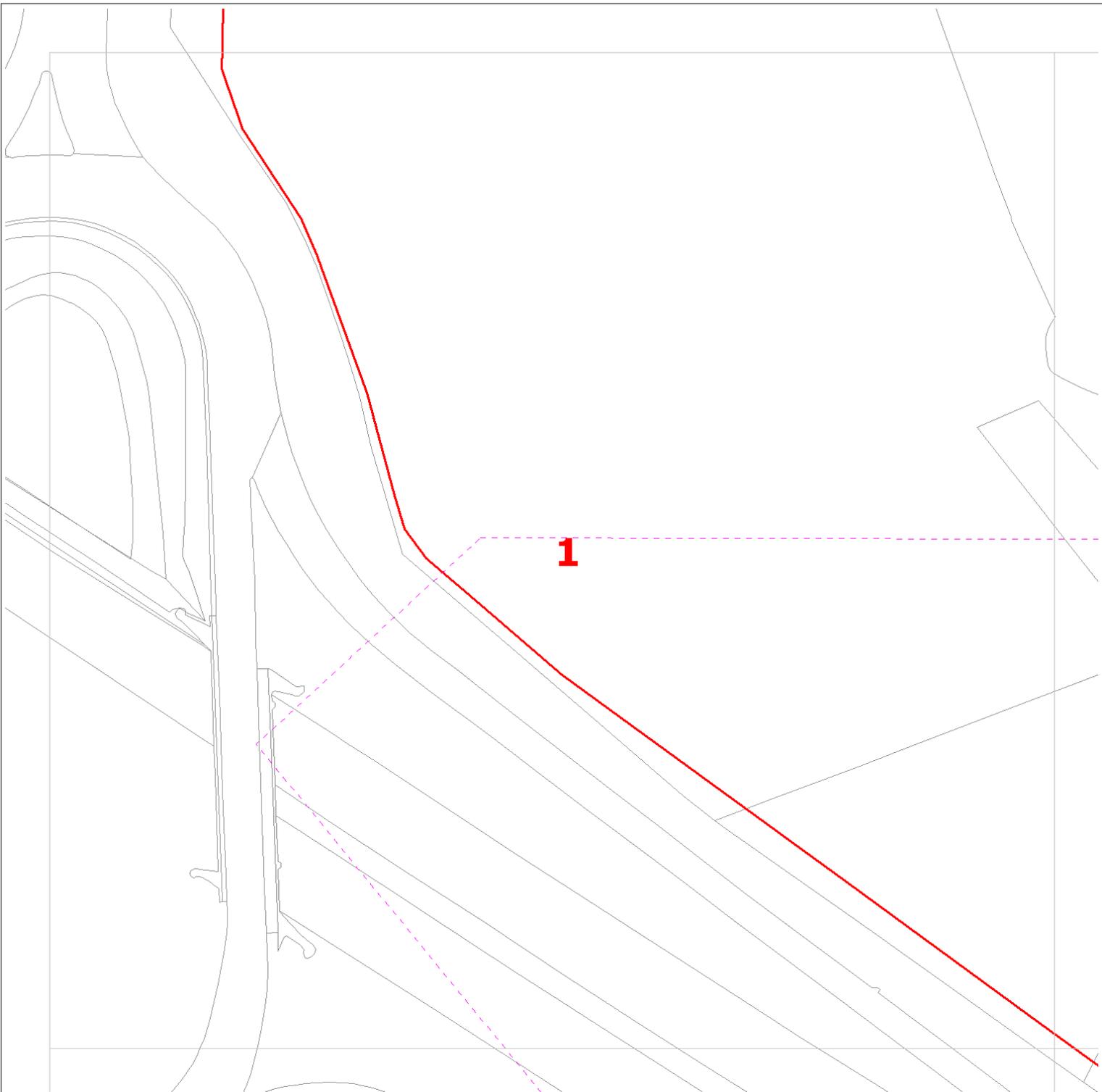
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Company: Atkins

Job Reference: 20280303

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 or  ZAYO CHAMBER

Dig Sites: Line  Area 

Scale on A4 paper: 1:1000



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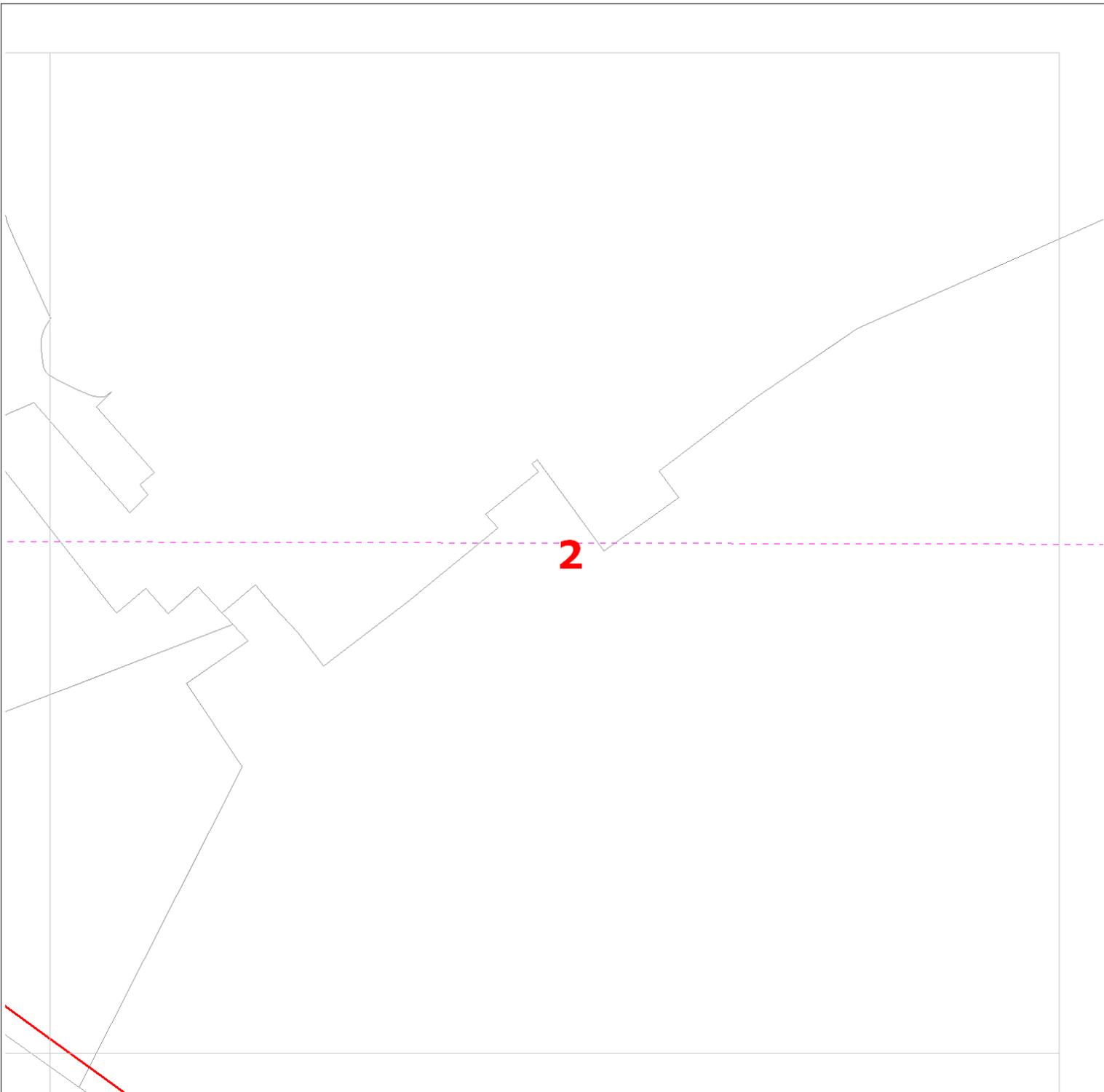
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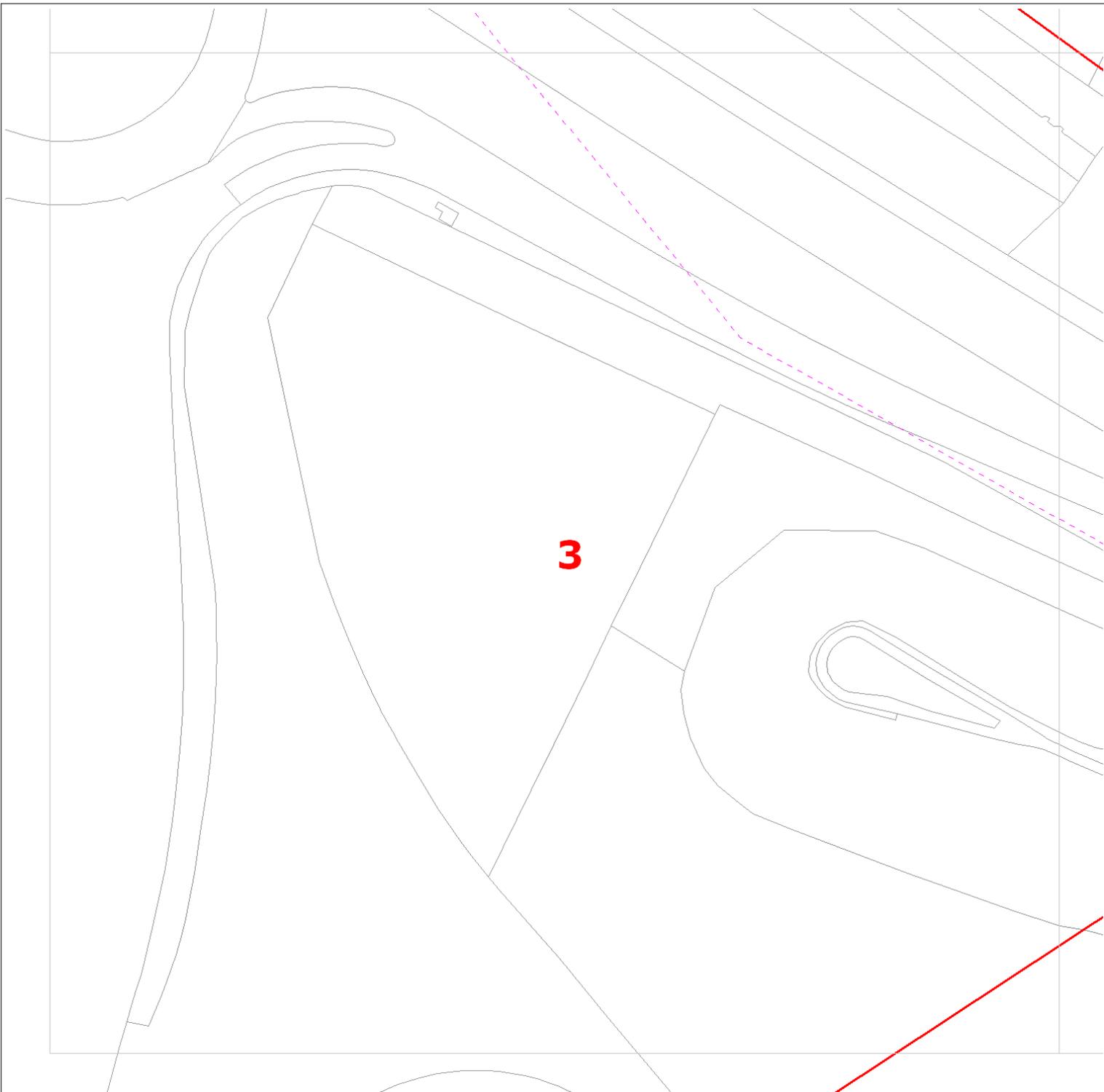
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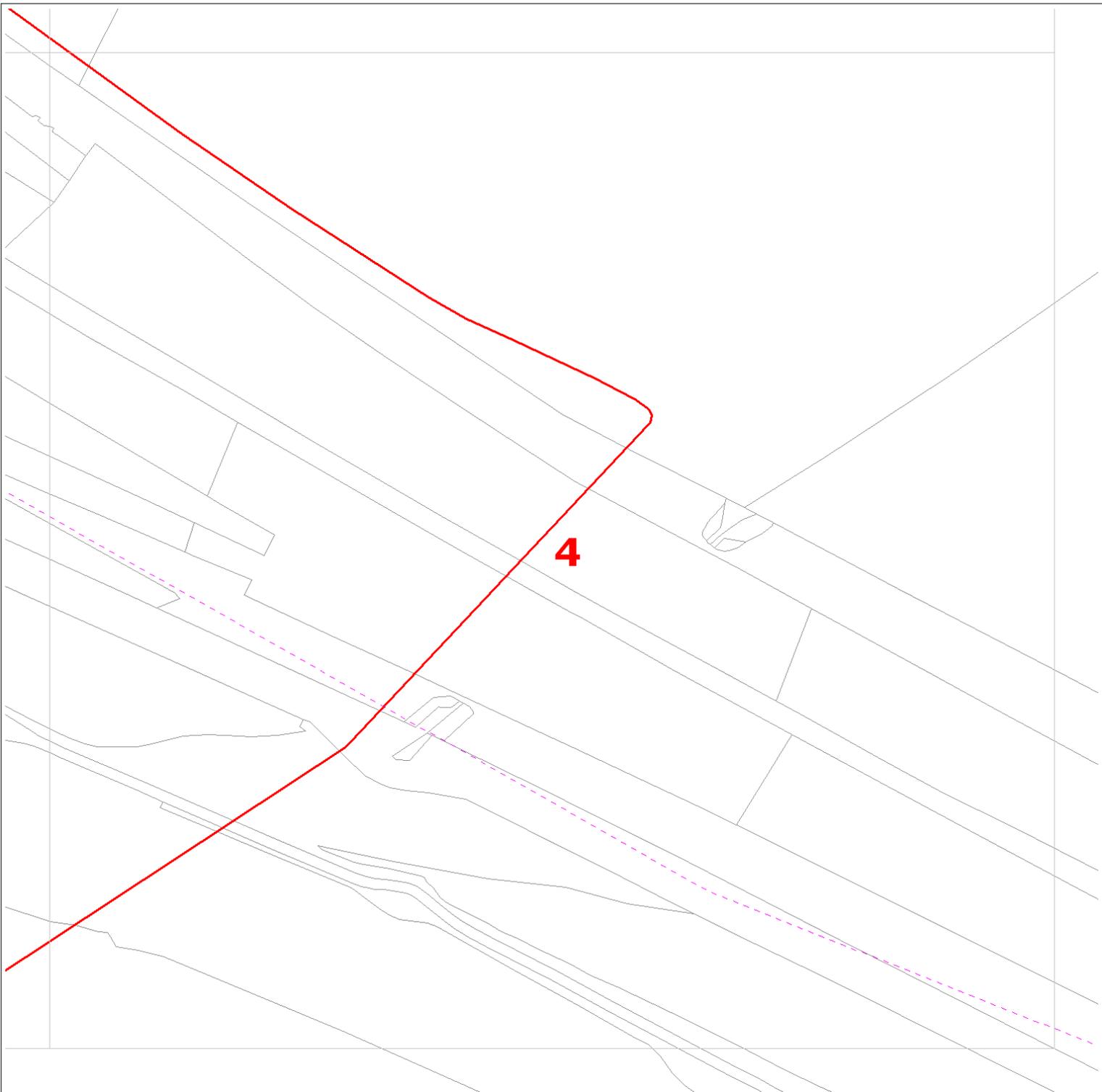
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### Legend

- Access Chamber.Location Active Footway Chamber
- Underground Route.Route Act. - Owned



Vodafone Limited (No01471587) registered office is at Vodafone House, The Connection, Newbury, Berkshire, RG142FN

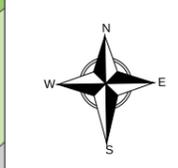
Plot Date : 28/10/2020

Scale : 1:1250

This plan shows apparatus owned by members of the Vodafone Group of companies (including legacy telecommunication companies currently within the group)

Information with regard to such apparatus should always be obtained from Vodafone or its appointed agents.





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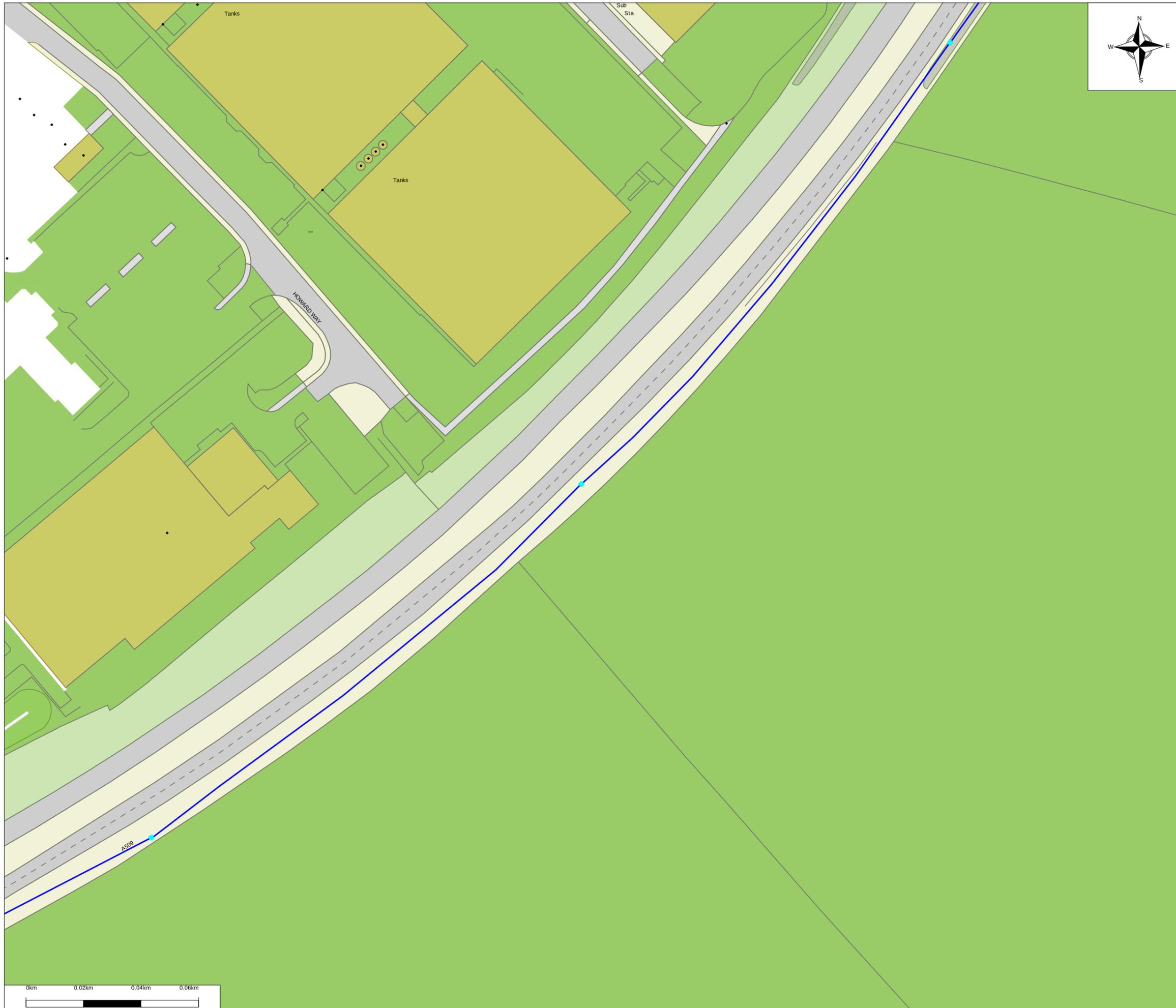
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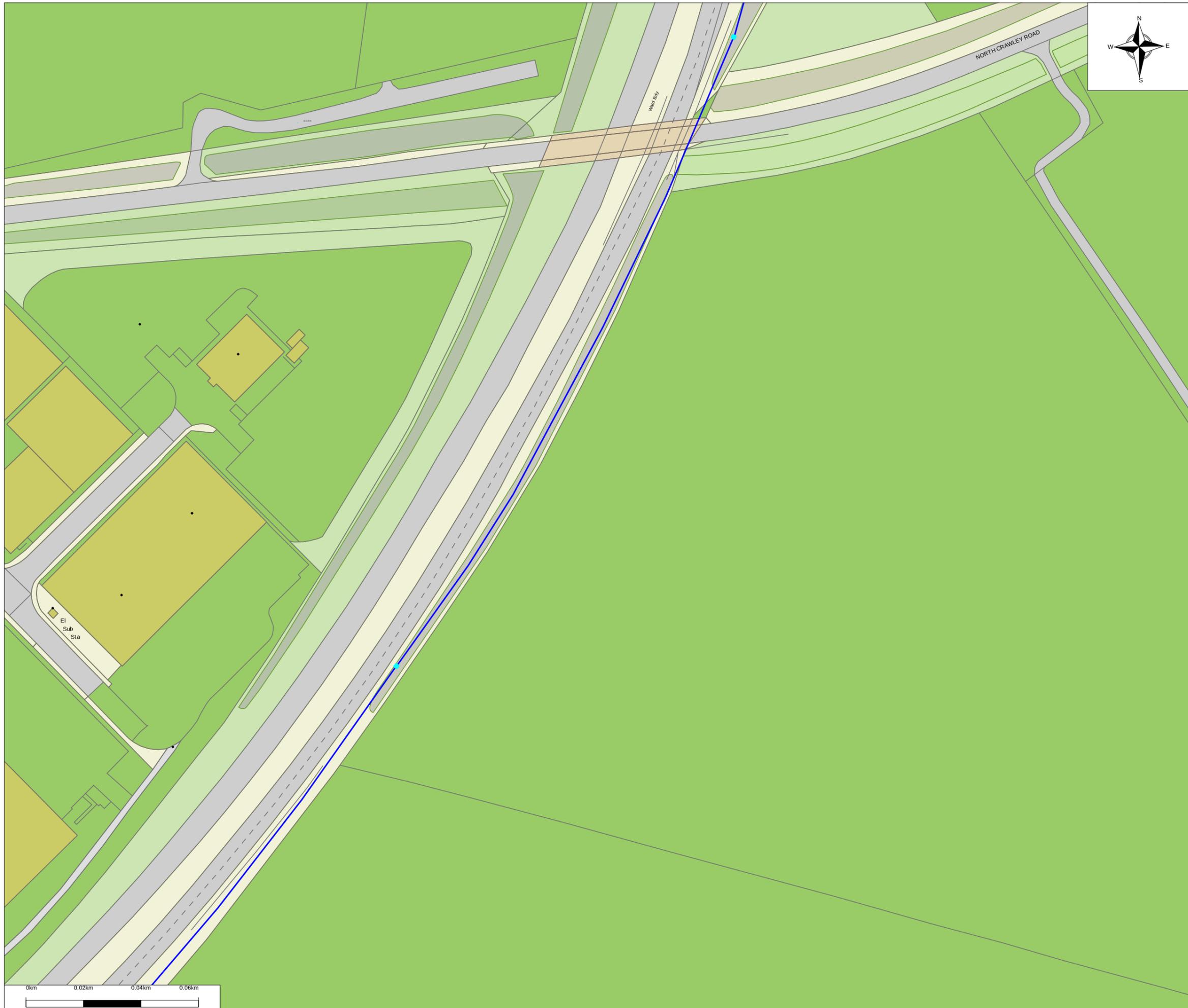
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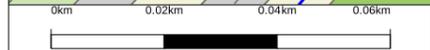


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MARKER POSTS - FROM/TO 79.4/80.9  
 DRAWING No. MCY/030/M1/AB  
 Layer Active  
 1 ✓  
 2 ✓  
 3 ✓  
 4 ✓  
 5 ✓  
 6 ✓  
 7 ✓  
 8 ✓  
 9 ✓  
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 44 ✓

**LEGEND**

LOCATION BLOCK  
 MP MOTORWAY MARKER POST WITH NUMBER

TRANSMISSION/RCC STATION  
 CABLE TYPE  
 TELEPHONE  
 LOOP SITE

POST JS FOR ONE MOTORWAY SIGNAL  
 AMBIENT LIGHT MONITOR  
 CCTV CAMERA  
 CANTILEVER GANTRY WITH EMS AND EM

611 CABINET WITH ONE ITEM OF EQUIPMENT  
 611 CABINET WITH TWO ITEMS OF EQUIPMENT  
 611 CABINET WITH THREE ITEMS OF EQUIPMENT  
 FEEDER PILLAR CABINET

61P CABINET WITH ONE ITEM OF EQUIPMENT  
 61P CABINET WITH TWO ITEMS OF EQUIPMENT  
 CHAMBER TYPE A.B.C. etc IN DUCT SYSTEM

PORTAL GANTRY MOUNTED SIGNALS FOR ONE LANE  
 PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS  
 PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS  
 PORTAL GANTRY MOUNTED AMI FOR TWO LANES

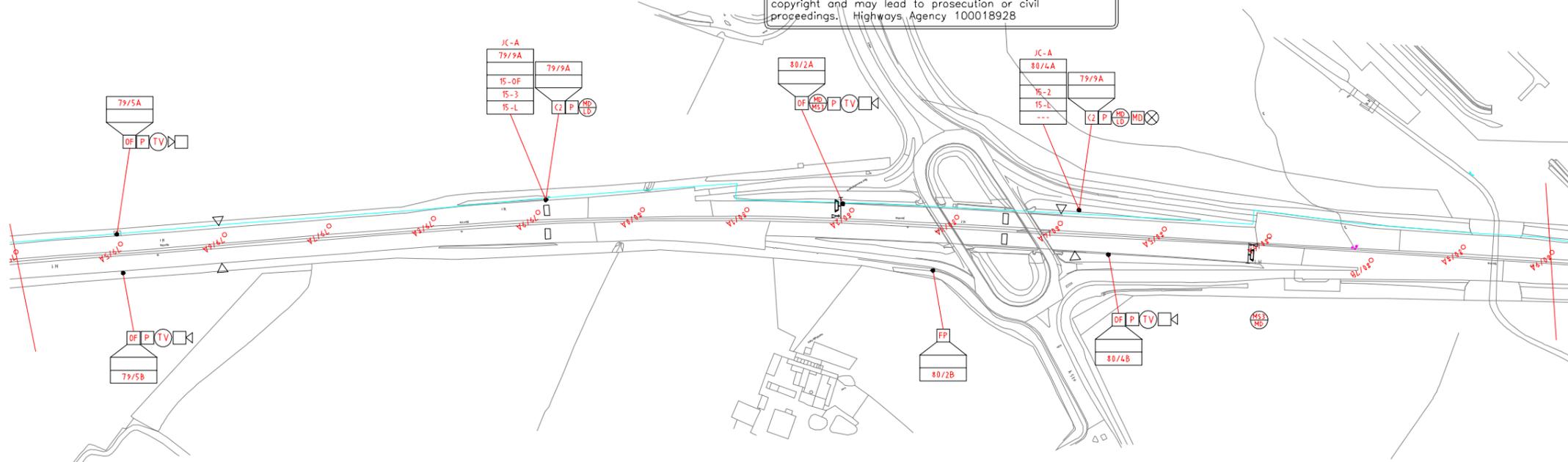
PORTAL GANTRY MOUNTED AMI FOR TWO LANES WITH EMS  
 VARIABLE MESSAGE SIGN MOUNTED ON ONE POST  
 CABLE JOINT ENCLOSURE (CJE)

1234 TELEPHONE/SIGNAL/EMS ADDRESS

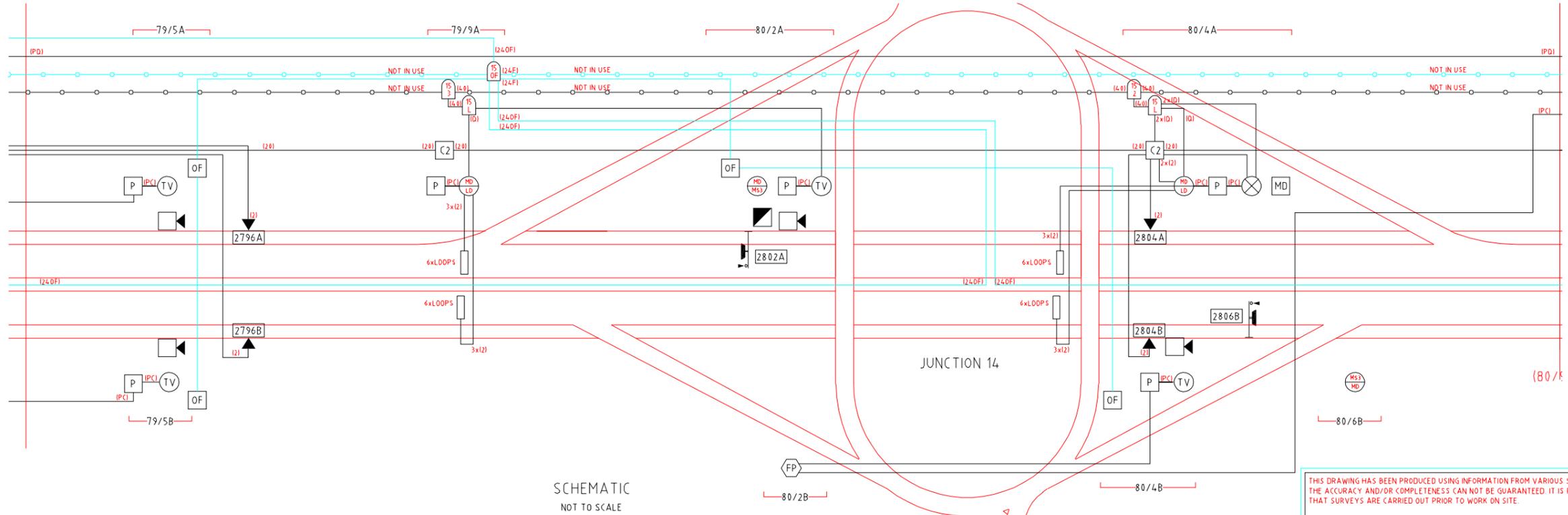
NEW NRTS DUCT or CABLE ROUTE (GEOGRAPHIC DRAWING)  
 NEW NRTS DUCT or CABLE ROUTE (SCHEMATIC DRAWING)  
 EXISTING DUCT or CABLE ROUTE (GEOGRAPHIC DRAWING)  
 EXISTING DUCT or CABLE ROUTE (SCHEMATIC DRAWING)



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GEOGRAPHIC LAYOUT



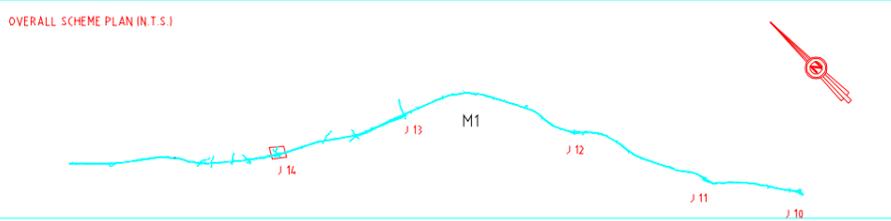
SCHEMATIC  
NOT TO SCALE

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CABLE OFFSET SCHEDULE - Longitudinal communications cable in metres from kerline (K) or fenceline (F)

MP LOCATION	CABLE OFFSET										
79/400A	K2.5	79/420A	K1.8	79/840A	K4.2	80/060A	K5.2	80/160A	K2.3	80/360A	K1.9
79/422A	K2.4	79/440A	K2.3	79/868A	K4.3	80/080A	K4.6	80/180A	K2.3	80/380A	K1.6
79/440A	K2.4	79/460A	K2.6	79/880A	K5.8	80/098A	K4.2	80/200A	K2.2	80/387A	K3.0
79/443A	K2.3	79/480A	K2.7	79/900A	K2.6	80/100J	K4.2	80/220A	K2.2	80/400A	K3.0
79/452A	K1.4	79/498A	K2.8	79/920A	K2.9	80/120J	K3.9	80/240A	K2.2	80/420A	K3.0
79/460A	K1.1	79/700A	K2.7	79/940A	K3.2	80/140J	K3.5	80/260A	K1.6	80/440A	K2.2
79/480A	K1.2	79/720A	K2.4	79/960A	K3.2	80/146J	K3.4	80/280A	K1.6	80/460A	K2.3
79/500A	K1.2	79/740A	K2.5	79/980A	K3.2	80/160J	K2.6	80/300A	K1.5	80/480A	K2.2
79/520A	K1.2	79/760A	K2.5	80/000A	K2.3	80/180J	K2.9	80/309A	K1.5	80/500A	K2.1
79/540A	K1.2	79/780A	K2.5	80/004A	K2.1	80/098A	K2.4	80/320A	K2.0	80/520A	K2.4
79/560A	K1.2	79/800A	K2.8	80/012A	K2.1	80/100A	K2.4	80/337A	K1.9	80/540A	K3.0
79/580A	K1.6	79/820A	K3.3	80/020A	K2.4	80/120A	K2.4	80/340A	K2.0	80/560A	K3.2
79/600A	K1.2	79/840A	K4.2	80/040A	K3.6	80/140A	K2.4	80/353A	K1.7	80/563A	K3.2

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Highways Agency South East  
 Heron House  
 4.9/5.3 Goldington Road  
 Bedford, MK40 3LL  
 Tel 04459 556575

**HIGHWAYS AGENCY**

TITLE  
**M1 COMMUNICATIONS RECORDS**  
 MP 79/4 TO 80/9

DRAWN: TE DATE: NOV 11  
 CHECKED: PB DATE: NOV 11  
 AUTHORISED: JS DATE: NOV 11

ORIGINAL DRAWING SIZE A1  
 Original Line Length 30mm

SCALE: 1:2500 DATE: OCT. 2001 DRAWING No. MCY/030/M1/AB MARKER POSTS - FROM/TO 79.4/80.9 ISSUE No. B

MARKER POSTS - FROM/TO 79.4/80.9  
DRAWING No. MCY/030/M1/DT  
Layer Active  
1 ✓  
2 ✓  
3 ✓  
4 ✓  
5 ✓  
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40 ✓  
41 ✓  
42 ✓  
43 ✓  
44 ✓

**LEGEND**

LOCATION BLOCK

MP MOTORWAY MARKER POST WITH NUMBER

TRANSMISSION/RCC STATION

CABLE TYPE

TELEPHONE

LOOP SITE

POST JS FOR ONE MOTORWAY SIGNAL

AMBIENT LIGHT MONITOR

CCTV CAMERA

CANTILEVER GANTRY WITH EMS AND EM

611 CABINET WITH ONE ITEM OF EQUIPMENT

611 CABINET WITH TWO ITEMS OF EQUIPMENT

611 CABINET WITH THREE ITEMS OF EQUIPMENT

FEEDER PILLAR CABINET

61P CABINET WITH ONE ITEM OF EQUIPMENT

61P CABINET WITH TWO ITEMS OF EQUIPMENT

CHAMBER TYPE A.B.C. etc IN DUCT SYSTEM

PORTAL GANTRY MOUNTED SIGNALS FOR ONE LANE

PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS

PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS

PORTAL GANTRY MOUNTED AMI FOR TWO LANES

PORTAL GANTRY MOUNTED AMI FOR TWO LANES WITH EMS

VARIABLE MESSAGE SIGN MOUNTED ON ONE POST

CABLE JOINT ENCLOSURE (CJE)

1234 TELEPHONE/SIGNAL/EMS ADDRESS

NEW NRTS DUCT or CABLE ROUTE (GEOGRAPHIC DRAWING)

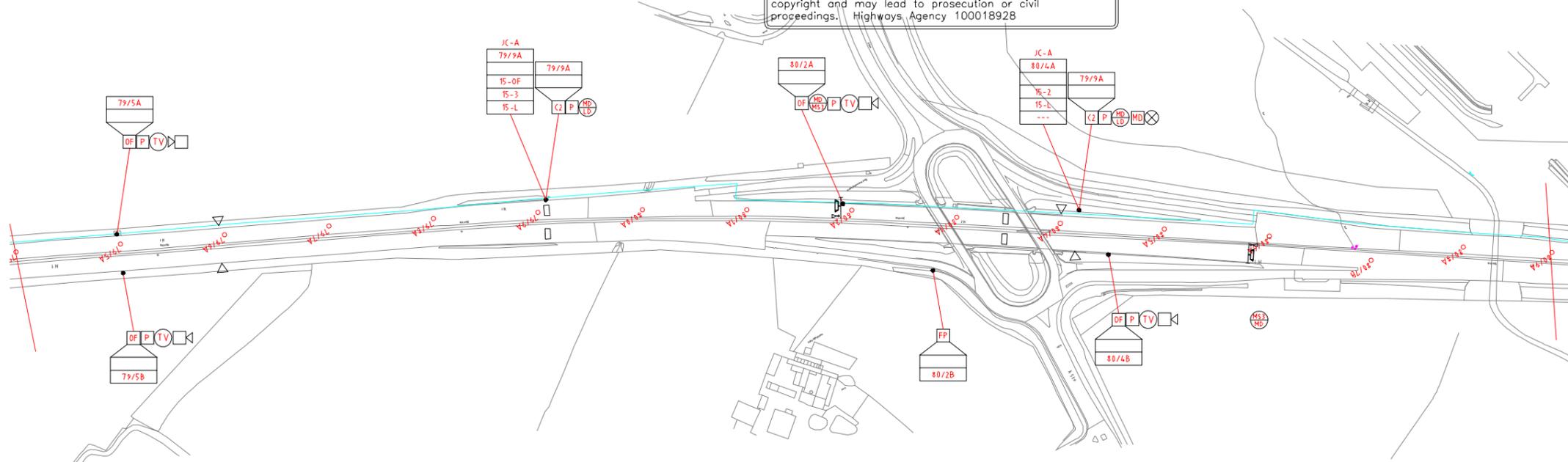
NEW NRTS DUCT or CABLE ROUTE (SCHEMATIC DRAWING)

EXISTING DUCT or CABLE ROUTE (GEOGRAPHIC DRAWING)

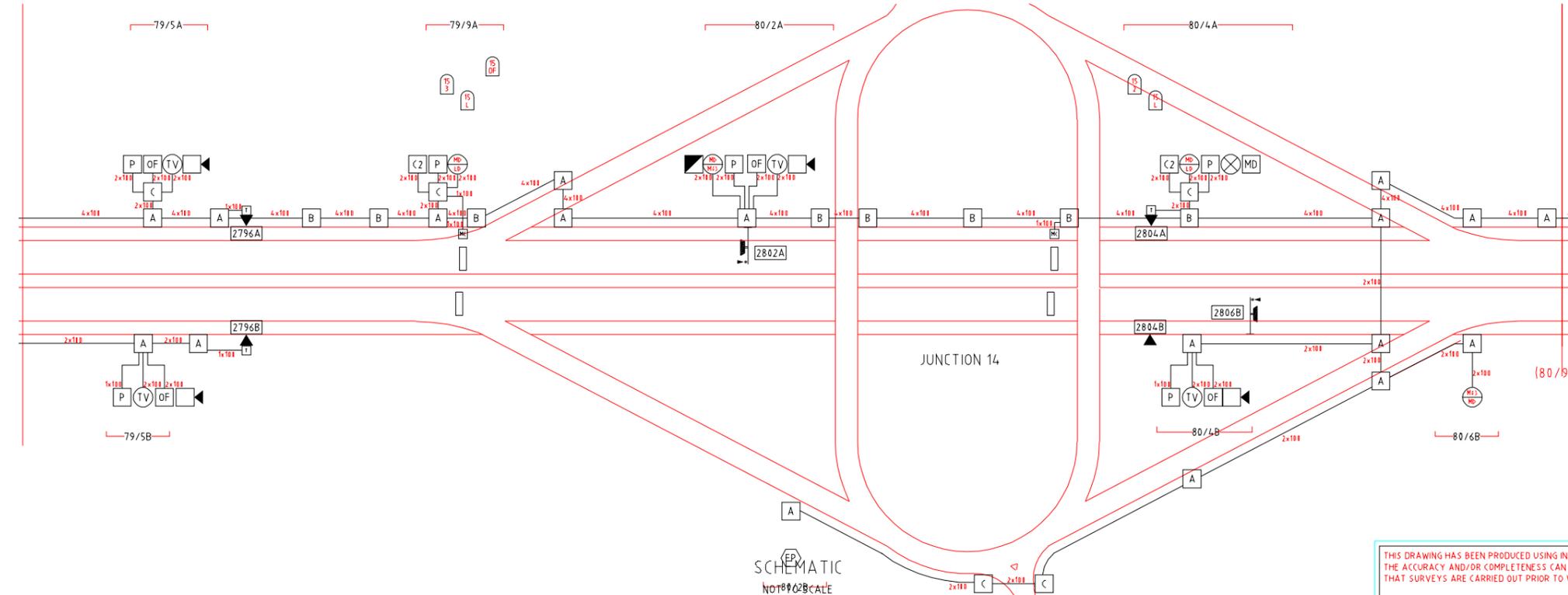
EXISTING DUCT or CABLE ROUTE (SCHEMATIC DRAWING)

NOTE: FULL LIBRARY OF SYMBOLS IS SHOWN ON MCY/000/STANDARD/SCHEMATIC & MCY/000/STANDARD/GEOGRAPHIC

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GEOGRAPHIC LAYOUT



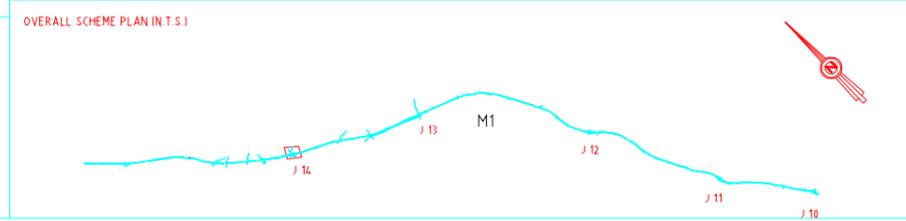
SCHEMATIC

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CABLE OFFSET SCHEDULE - Longitudinal communications cable in metres from kerline (K) or fenceline (F)

MP LOCATION	CABLE OFFSET										
79/400A	K2.5	79/420A	K1.8	79/840A	K4.2	80/060A	K5.2	80/160A	K2.3	80/360A	K1.9
79/422A	K2.4	79/440A	K2.3	79/868A	K4.3	80/080A	K4.6	80/180A	K2.3	80/380A	K1.6
79/440A	K2.4	79/460A	K2.6	79/880A	K5.8	80/098A	K4.2	80/200A	K2.2	80/387A	K3.0
79/443A	K2.3	79/480A	K2.7	79/900A	K2.6	80/100J	K4.2	80/220A	K2.2	80/400A	K3.0
79/452A	K1.4	79/498A	K2.8	79/920A	K2.9	80/120J	K3.9	80/240A	K2.2	80/420A	K3.0
79/460A	K1.1	79/700A	K2.7	79/940A	K3.2	80/140J	K3.5	80/260A	K1.6	80/440A	K2.2
79/480A	K1.2	79/720A	K2.4	79/960A	K3.2	80/146J	K3.4	80/280A	K1.6	80/460A	K2.3
79/500A	K1.2	79/740A	K2.5	79/980A	K3.2	80/160J	K2.6	80/300A	K1.5	80/480A	K2.2
79/520A	K1.2	79/760A	K2.5	80/000A	K2.3	80/180J	K2.9	80/309A	K1.5	80/500A	K2.1
79/540A	K1.2	79/780A	K2.5	80/004A	K2.1	80/320A	K2.0	80/320A	K2.0	80/520A	K2.4
79/560A	K1.2	79/800A	K2.8	80/012A	K2.1	80/337A	K1.9	80/337A	K1.9	80/540A	K3.0
79/580A	K1.6	79/820A	K3.3	80/020A	K2.4	80/340A	K2.0	80/340A	K2.0	80/560A	K3.2
79/600A	K1.2	79/840A	K4.2	80/040A	K3.6	80/353A	K1.7	80/353A	K1.7	80/563A	K3.2

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Highways Agency South East  
Heron House  
49/53 Goldington Road  
Bedford, MK40 3LL  
Tel 04459 556575

**HIGHWAYS AGENCY**

TITLE  
**M1 COMMUNICATIONS RECORDS**  
MP 79/4 TO 80/9

DRAWN: DATE: NOV 11  
TE: NOV 11  
CHECKED: DATE: NOV 11  
PB: NOV 11  
AUTHORISED: DATE: NOV 11  
JS: NOV 11

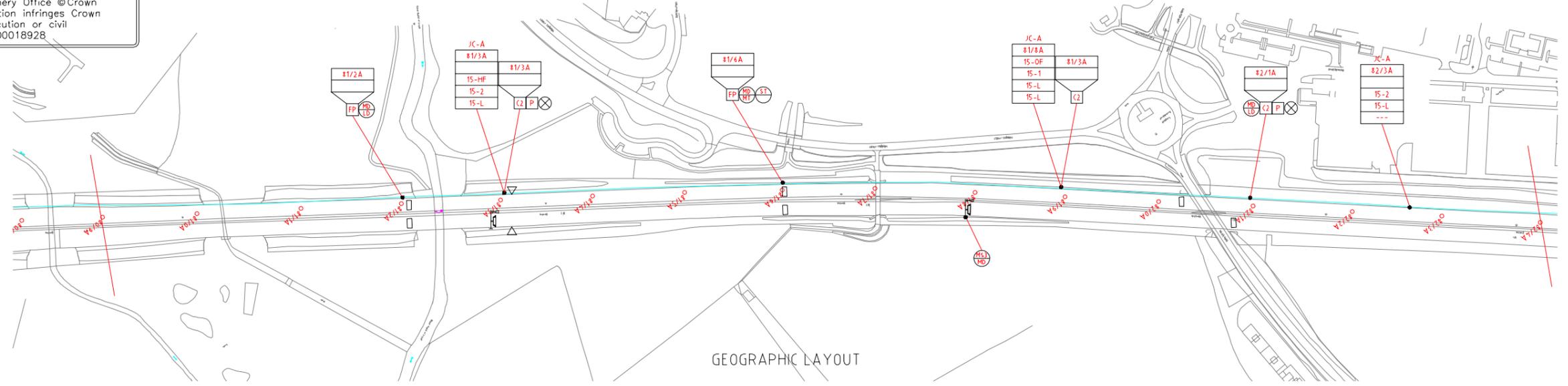
ORIGINAL DRAWING SIZE A1  
Original Line Length 30mm

SCALE: 1:2500  
DATE: OCT. 2001  
DRAWING No. MCY/030/M1/DT  
MARKER POSTS - FROM/TO: 79.4/80.9  
ISSUE No. A

**LEGEND**

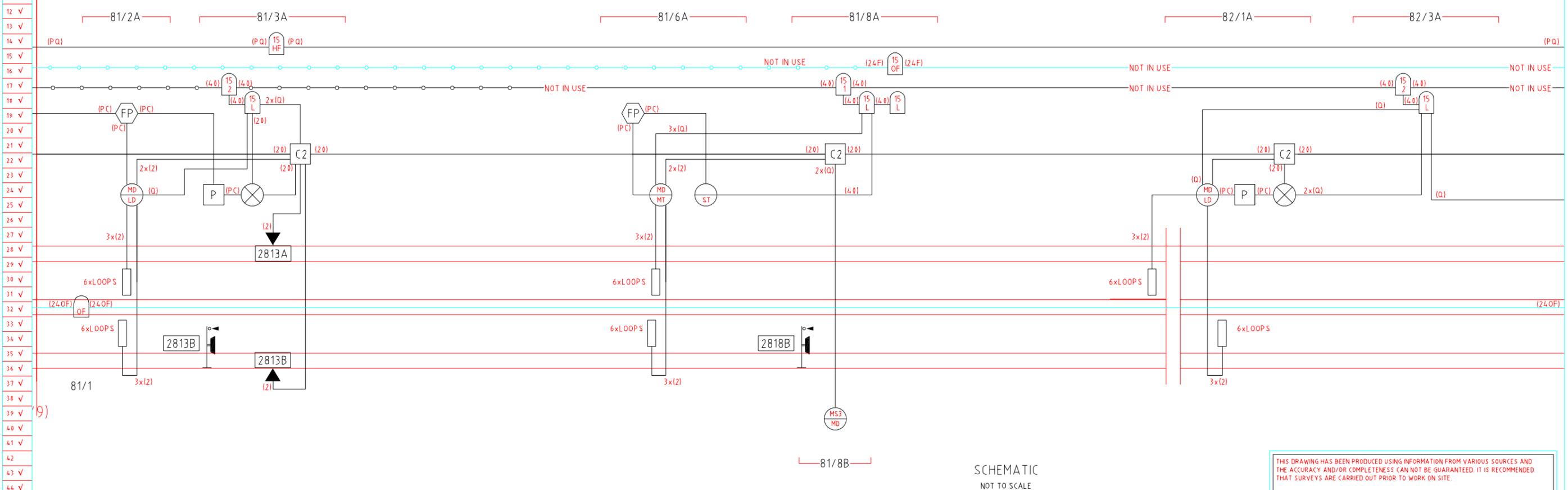
- LOCATION BLOCK
- MOTORWAY MARKER POST WITH NUMBER
- TRANSMISSION/RCC STATION
- CABLE TYPE
- TELEPHONE
- LOOP SITE
- POST JS FOR ONE MOTORWAY SIGNAL
- AMBIENT LIGHT MONITOR
- CCTV CAMERA
- CANTILEVER GANTRY WITH EMS AND EM
- 611 CABINET WITH ONE ITEM OF EQUIPMENT
- 611 CABINET WITH TWO ITEMS OF EQUIPMENT
- 611 CABINET WITH THREE ITEMS OF EQUIPMENT
- FEEDER PILLAR CABINET
- 61P CABINET WITH ONE ITEM OF EQUIPMENT
- 61P CABINET WITH TWO ITEMS OF EQUIPMENT
- CHAMBER TYPE A,B,C etc IN DUCT SYSTEM
- PORTAL GANTRY MOUNTED SIGNALS FOR ONE LANE
- PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS
- PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS
- PORTAL GANTRY MOUNTED AMI FOR TWO LANES
- PORTAL GANTRY MOUNTED AMI FOR TWO LANES WITH EMS
- VARIABLE MESSAGE SIGN MOUNTED ON ONE POST
- CABLE JOINT ENCLOSURE (CJE)
- TELEPHONE/SIGNAL/EMS ADDRESS
- NEW NTS DUCT or CABLE ROUTE (GEOGRAPHIC DRAWING)
- NEW NTS DUCT or CABLE ROUTE (SCHEMATIC DRAWING)
- EXISTING DUCT or CABLE ROUTE (GEOGRAPHIC DRAWING)
- EXISTING DUCT or CABLE ROUTE (SCHEMATIC DRAWING)

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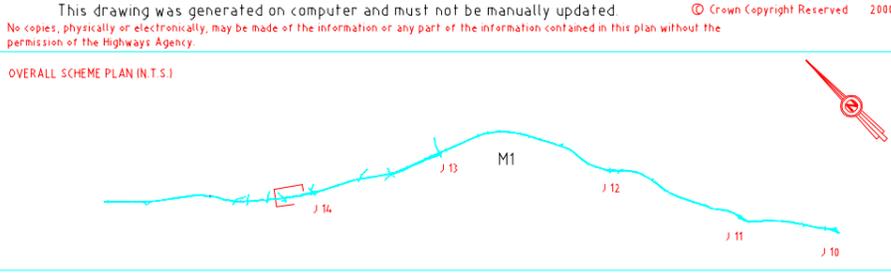
Layer Active

MP LOCATION	CABLE OFFSET
1 ✓	82/160A K2.4
2 ✓	82/160A K2.5
3 ✓	82/180A K2.8
4 ✓	82/200A K2.8
5 ✓	82/220A K3.8
6 ✓	82/240A K3.6
7 ✓	82/240A K3.5
8 ✓	82/300A K3.7
9 ✓	82/311A K3.4
10 ✓	82/320A K3.3
11 ✓	82/340A K3.7
12 ✓	82/360A K3.5
13 ✓	82/380A K3.4
14 ✓	82/400A K3.4



**CABLE OFFSET SCHEDULE - Longitudinal communications cable in metres from kerline (K) or fenceline (F)**

MP LOCATION	CABLE OFFSET										
80/900A	K2.0	81/100A	K2.2	81/266A	K2.5	81/500A	K2.3	81/700A	K1.5	81/920A	K1.6
80/920A	K1.9	81/120A	K1.5	81/295A	K2.5	81/520A	K2.1	81/720A	K1.5	81/940A	K1.6
80/940A	K2.1	81/140A	K2.1	81/300A	K2.1	81/540A	K2.2	81/740A	K1.6	81/960A	K1.8
80/960A	K2.3	81/160A	K1.7	81/314A	K2.2	81/560A	K2.0	81/760A	K1.5	81/980A	K1.8
80/980A	K2.3	81/180A	K2.5	81/320A	K2.0	81/562A	K2.0	81/780A	K1.6	82/000A	K1.8
81/000A	K1.0	81/194A	K2.5	81/340A	K1.7	81/564A	K2.3	81/800A	K1.7	82/015A	K1.6
81/020A	K1.0	81/200A	K2.3	81/360A	K1.7	81/580A	K2.8	81/803A	K1.7	82/020A	K1.7
81/040A	K1.0	81/204A	K2.3	81/380A	K2.0	81/587A	K2.8	81/806A	K1.3	82/040A	K1.7
81/060A	K1.0	81/210A	K1.1	81/400A	K1.9	81/600A	K2.2	81/820A	K1.3	82/057A	K2.2
81/064A	K1.0	81/220A	K1.1	81/420A	K2.1	81/620A	K2.2	81/840A	K1.2	82/060A	K2.2
81/064A	K3.0	81/240A	K1.1	81/440A	K2.2	81/640A	K2.2	81/860A	K1.3	82/080A	K2.2
81/070A	K3.0	81/260A	K1.1	81/460A	K2.8	81/660A	K2.1	81/880A	K1.2	82/100A	K2.2
81/080A	K2.2	81/265A	K3.3	81/480A	K2.5	81/680A	K1.9	81/900A	K1.1	82/120A	K1.9



Highways Agency South East  
Heron House  
49/53 Goldington Road  
Bedford, MK40 3LL  
Tel 04459 554575

**HIGHWAYS AGENCY**

TITLE  
**M1 COMMUNICATIONS RECORDS  
MP 80/9 TO 82/4**

SCALE: 1:2500  
DATE: OCT. 2001  
DRAWING No: MCY/030/M1/AB  
MARKER POSTS - FROM/TO: 80.9/82.4  
ISSUE No: B

MARKER POSTS - FROM/TO 80/9/82.4

DRAWING No. MCY/030/M1/DT

Layer Active

1 ✓

2 ✓

3 ✓

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43 ✓

44 ✓

**LEGEND**

LOCATION BLOCK

MP MOTORWAY MARKER POST WITH NUMBER

TRANSMISSION/RCC STATION

CABLE TYPE

TELEPHONE

LOOP SITE

POST JS FOR ONE MOTORWAY SIGNAL

AMBIENT LIGHT MONITOR

CCTV CAMERA

CANTILEVER GANTRY WITH EMS AND EM

611 CABINET WITH ONE ITEM OF EQUIPMENT

611 CABINET WITH TWO ITEMS OF EQUIPMENT

611 CABINET WITH THREE ITEMS OF EQUIPMENT

FEEDER PILLAR CABINET

61P CABINET WITH ONE ITEM OF EQUIPMENT

61P CABINET WITH TWO ITEMS OF EQUIPMENT

61P CABINET WITH THREE ITEMS OF EQUIPMENT

CHAMBER TYPE A,B,C etc IN DUCT SYSTEM

PORTAL GANTRY MOUNTED SIGNALS FOR ONE LANE

PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS

PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS

PORTAL GANTRY MOUNTED AMI FOR TWO LANES

PORTAL GANTRY MOUNTED AMI FOR TWO LANES WITH EMS

VARIABLE MESSAGE SIGN MOUNTED ON ONE POST

CABLE JOINT ENCLOSURE (CJE)

1234 TELEPHONE/SIGNAL/EMS ADDRESS

NEW NRTS DUCT or CABLE ROUTE (GEOGRAPHIC DRAWING)

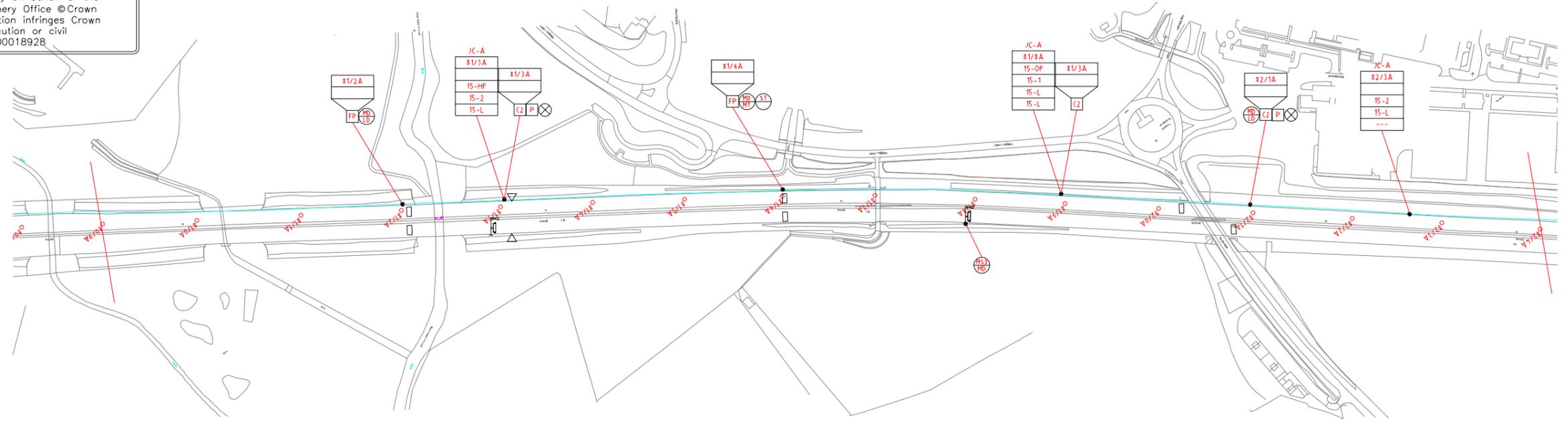
NEW NRTS DUCT or CABLE ROUTE (SCHEMATIC DRAWING)

EXISTING DUCT or CABLE ROUTE (GEOGRAPHIC DRAWING)

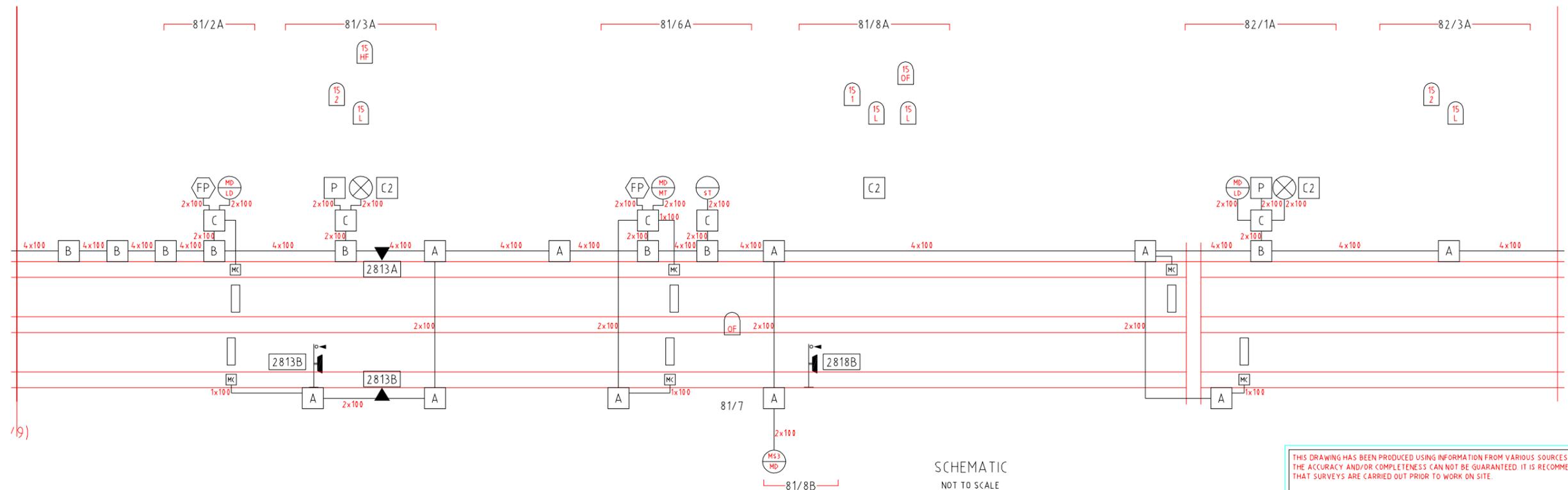
EXISTING DUCT or CABLE ROUTE (SCHEMATIC DRAWING)



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GEOGRAPHIC LAYOUT



SCHEMATIC NOT TO SCALE

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**CABLE OFFSET SCHEDULE - Longitudinal communications cable in metres from kerline (K) or fenceline (F)**

MP LOCATION	CABLE OFFSET										
80/900A	K2.0	81/100A	K2.2	81/266A	K2.5	81/500A	K2.3	81/700A	K15	81/920A	K1.6
80/920A	K1.9	81/120A	K1.5	81/295A	K2.5	81/520A	K2.1	81/720A	K15	81/940A	K1.6
80/940A	K2.1	81/140A	K2.1	81/300A	K2.1	81/540A	K2.2	81/740A	K16	81/960A	K1.8
80/960A	K2.3	81/160A	K1.7	81/314A	K2.2	81/560A	K2.0	81/760A	K15	81/980A	K1.8
80/983A	K2.3	81/180A	K2.5	81/320A	K2.0	81/562A	K2.0	81/780A	K16	82/000A	K1.8
81/000A	K1.0	81/194A	K2.5	81/340A	K1.7	81/564A	K2.3	81/800A	K17	82/015A	K1.6
81/020A	K1.0	81/200A	K2.3	81/360A	K1.7	81/580A	K2.8	81/820A	K17	82/020A	K1.7
81/040A	K1.0	81/204A	K2.3	81/380A	K2.0	81/587A	K2.8	81/840A	K13	82/040A	K1.7
81/060A	K1.0	81/210A	K1.1	81/400A	K1.9	81/600A	K2.2	81/820A	K13	82/057A	K2.2
81/064A	K1.0	81/220A	K1.1	81/420A	K2.1	81/620A	K2.2	81/840A	K12	82/060A	K2.2
81/064A	K3.0	81/240A	K1.1	81/440A	K2.2	81/640A	K2.2	81/860A	K13	82/080A	K2.2
81/070A	K3.0	81/260A	K1.1	81/460A	K2.8	81/660A	K2.1	81/880A	K12	82/100A	K2.2
81/080A	K2.2	81/265A	K3.3	81/480A	K2.5	81/680A	K1.9	81/900A	K11	82/120A	K1.9

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OVERALL SCHEME PLAN (I.T.S.)

DRAWN: TE	DATE: NOV 11		Highways Agency South East Heron House 4/9/53 Goldington Road Bedford, MK40 3LL Tel 04459 556575			
CHECKED: PB	DATE: NOV 11		TITLE			
AUTHORISED: JS	DATE: NOV 11		M1 COMMUNICATIONS RECORDS MP 80/9 TO 82/4			
ORIGINAL DRAWING SIZE A1	Original Line Length 30mm	SCALE: 1:2500	DATE: OCT. 2001	DRAWING No. MCY/030/M1/DT	MARKER POSTS - FROM/TO: 80.9/82.4	ISSUE No. A

MARKER POSTS - FROM/TO  
82/4/83/9

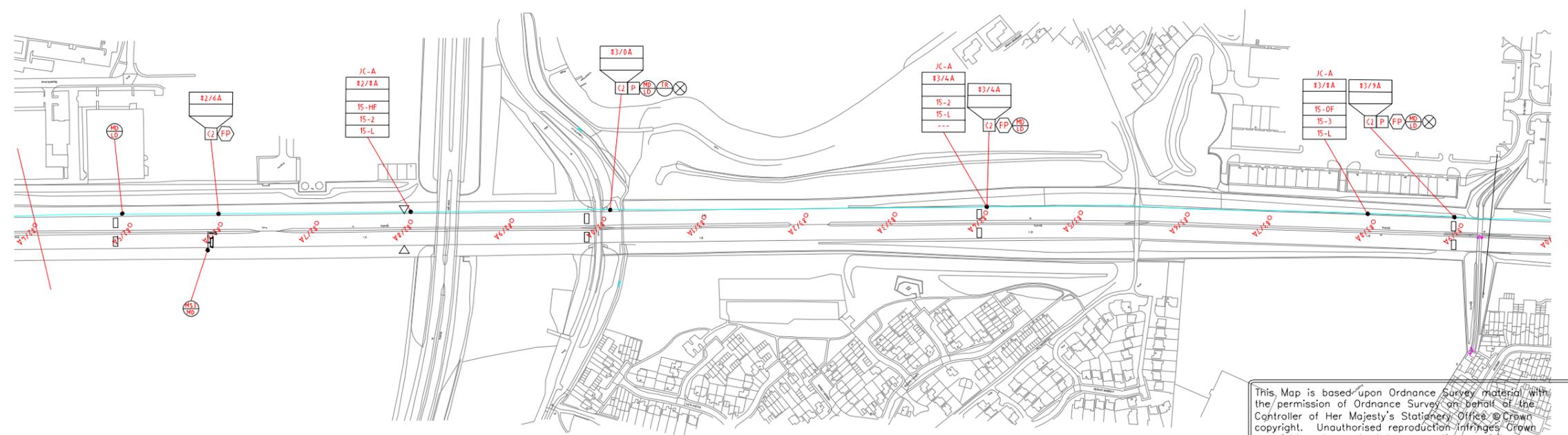
DRAWING No.  
MCY/030/M1/AB

Layer	Active
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3	✓
4	✓
5	✓
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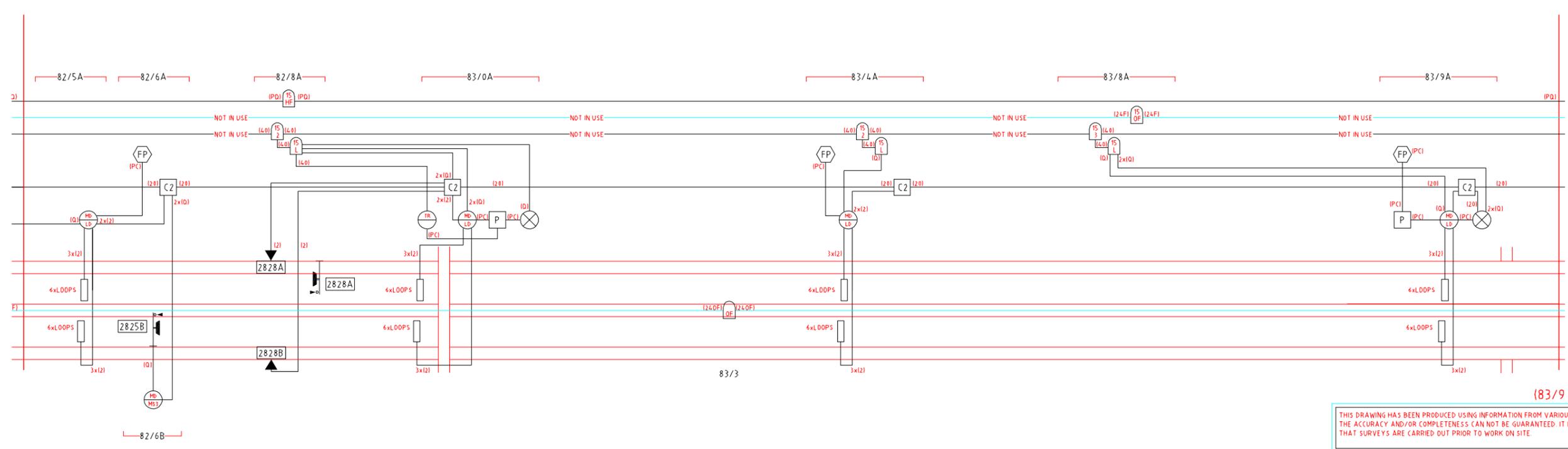
**LEGEND**

LOCATION BLOCK	TRANSMISSION/RCC STATION	POST TS FOR ONE MOTORWAY SIGNAL	488 CABINET WITH ONE ITEM OF EQUIPMENT	489 CABINET WITH ONE ITEM OF EQUIPMENT	PORTAL GANTRY MOUNTED SIGNALS FOR ONE LANE	PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS	NEW NITS DUCT or CABLE ROUTE GEOGRAPHIC DRAWING
MOTORWAY MARKER POST WITH NUMBER	CABLE TYPE	AMBIENT LIGHT MONITOR	488 CABINET WITH TWO ITEMS OF EQUIPMENT	489 CABINET WITH TWO ITEMS OF EQUIPMENT	PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS	VARIABLE MESSAGE SIGN MOUNTED ON ONE POST	NEW NITS DUCT or CABLE ROUTE SCHEMATIC DRAWING
	TELEPHONE	CCTV CAMERA	488 CABINET WITH THREE ITEMS OF EQUIPMENT	489 CABINET WITH THREE ITEMS OF EQUIPMENT	PORTAL GANTRY FOR TWO LANES WITH EMS	CABLE JOINT ENCLOSURE (CJE)	EXISTING DUCT or CABLE ROUTE GEOGRAPHIC DRAWING
	LOOP SITE	CANTILEVER GANTRY WITH EMS AND EM	FEEDER PILLAR CABINET	CHAMBER TYPE A, B, C, etc. IN DUCT SYSTEM	PORTAL GANTRY MOUNTED AM FOR TWO LANES	EXISTING DUCT or CABLE ROUTE SCHEMATIC DRAWING	

NOTE: FULL LIBRARY OF SYMBOLS IS SHOWN ON MCY/000/STANDARD/SCHEMATIC & MCY/000/STANDARD/GEOGRAPHIC



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CABLE OFFSET SCHEDULE - Longitudinal communications cable in metres from kerline (K) or fenceline (F)

MP LOCATION	CABLE OFFSET										
82/420A	K2.7	82/440A	K2.7	82/465A	K3.4	83/120A	K2.2	83/140A	K2.9	83/440A	K2.5
82/440A	K2.9	82/480A	K2.4	82/480A	K3.0	83/140A	K2.0	83/400A	K3.1	83/480A	K2.5
82/460A	K3.0	82/700A	K2.4	82/900A	K3.0	83/160A	K1.7	83/420A	K3.2	83/700A	K2.4
82/480A	K2.7	82/720A	K2.4	82/920A	K3.1	83/180A	K1.7	83/460A	K3.2	83/720A	K2.5
82/493A	K2.4	82/740A	K2.7	82/940A	K3.1	83/200A	K2.2	83/480A	K2.4	83/740A	K2.4
82/500A	K3.3	82/760A	K2.7	82/960A	K3.1	83/220A	K2.2	83/500A	K3.1	83/760A	K3.0
82/520A	K3.3	82/780A	K5.5	82/980A	K3.3	83/240A	K2.2	83/520A	K3.2	83/780A	K2.5
82/540A	K2.7	82/805A	K5.5	83/000A	K2.9	83/260A	K2.2	83/540A	K3.4	83/800A	K2.6
82/560A	K2.6	82/810A	K6.0	83/020A	K2.4	83/280A	K2.2	83/560A	K3.9	83/820A	K3.2
82/580A	K2.6	82/820A	K8.7	83/040A	K2.9	83/300A	K2.5	83/580A	K2.7	83/840A	K3.2
82/600A	K3.4	82/840A	K8.7	83/060A	K2.4	83/320A	K3.1	83/600A	K3.7	83/860A	K3.2
82/620A	K3.4	82/844A	K8.7	83/079A	K2.3	83/340A	K3.4	83/620A	K2.4	83/880A	K3.4
82/640A	K2.4	82/860A	K3.4	83/100A	K2.0	83/360A	K3.7	83/640A	K2.4	83/900A	K3.4

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OVERALL SCHEME PLAN (IN T.S.)

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CHECKED: PB	DATE: NOV 11			
AUTHORISED: JS	DATE: NOV 11			
ORIGINAL DRAWING SIZE A1 Original Line Length 30mm				
SCALE: 1:2500	DATE: OCT. 2001	DRAWING No.: MCY/030/M1/AB	MARKER POSTS - FROM/TO: 82/4/83/9	ISSUE No.: B

TITLE: M1 COMMUNICATIONS RECORDS MP 82/4 TO 83/9

MARKER POSTS - FROM/TO  
82/4/83/9

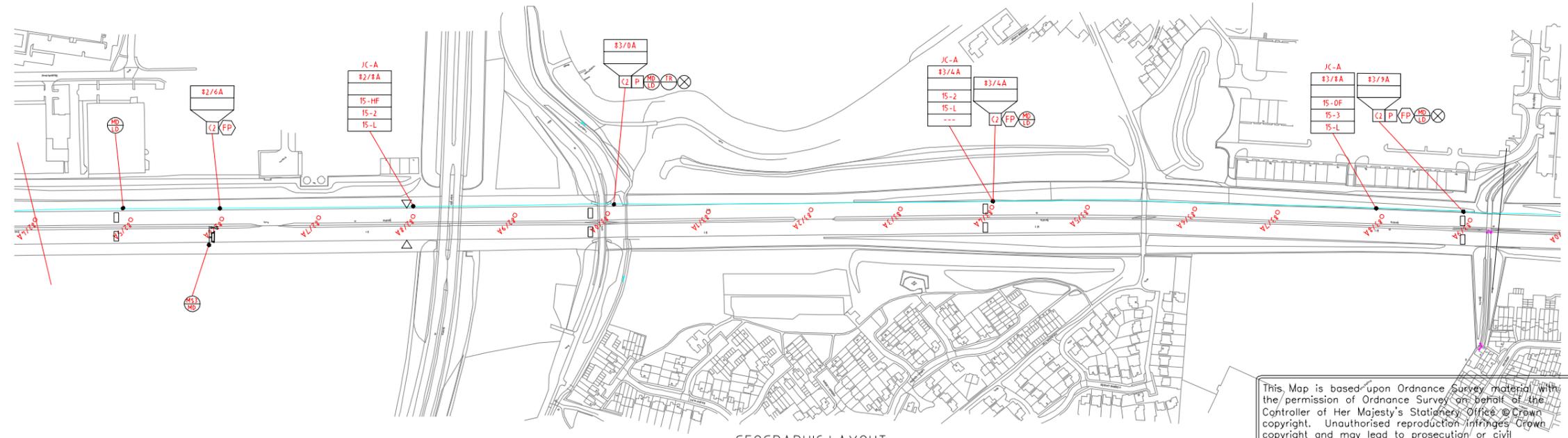
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MCY/030/M1/DT

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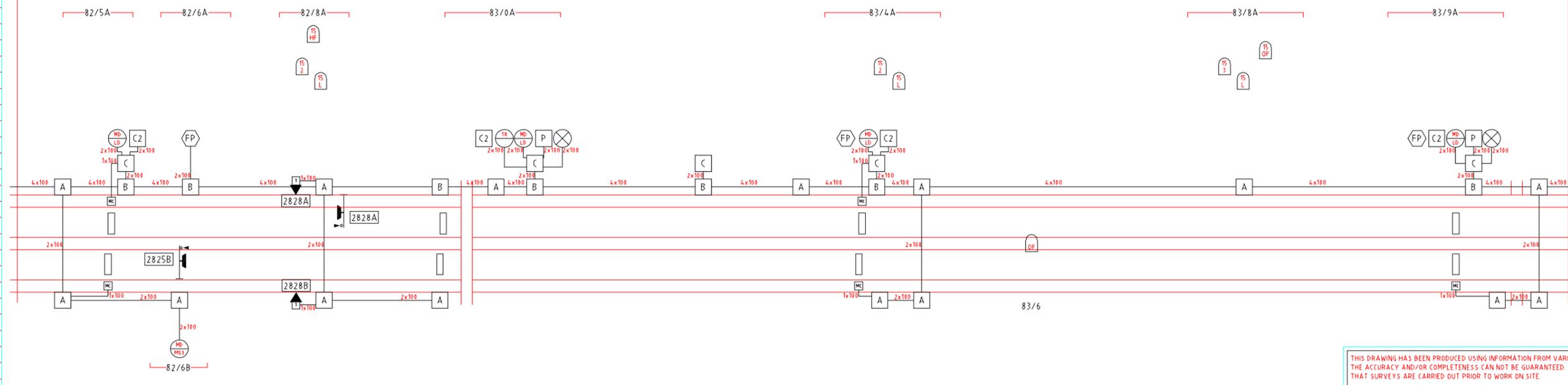
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LOCATION BLOCK	TRANSMISSION/RCC STATION	POST TS FOR ONE MOTORWAY SIGNAL	488 CABINET WITH ONE ITEM OF EQUIPMENT	488 CABINET WITH ONE ITEM OF EQUIPMENT	PORTAL GANTRY MOUNTED SIGNALS FOR ONE LANE	PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS	NEW NITS DUCT or CABLE ROUTE GEOGRAPHIC DRAWING
MOTORWAY MARKER POST WITH NUMBER	CABLE TYPE	AMBIENT LIGHT MONITOR	488 CABINET WITH TWO ITEMS OF EQUIPMENT	488 CABINET WITH TWO ITEMS OF EQUIPMENT	PORTAL GANTRY MOUNTED SIGNALS FOR TWO LANES WITH EMS	VARIABLE MESSAGE SIGN MOUNTED ON ONE POST	NEW NITS DUCT or CABLE ROUTE SCHEMATIC DRAWING
	TELEPHONE	CCTV CAMERA	488 CABINET WITH THREE ITEMS OF EQUIPMENT	488 CABINET WITH THREE ITEMS OF EQUIPMENT	PORTAL GANTRY FOR TWO LANES WITH EMS	CABLE JOINT ENCLOSURE (JCE)	EXISTING DUCT or CABLE ROUTE GEOGRAPHIC DRAWING
	LOOP SITE	CANTILEVER GANTRY WITH EMS AND AMI	FEEDER PILLAR CABINET	CHAMBER TYPE A, B, C, etc. IN DUCT SYSTEM	PORTAL GANTRY MOUNTED AMI FOR TWO LANES	TELEPHONE/SIGNAL/EMS ADDRESS	EXISTING DUCT or CABLE ROUTE SCHEMATIC DRAWING

NOTE: FULL LIBRARY OF SYMBOLS IS SHOWN ON MCY/000/STANDARD/SCHEMATIC & MCY/000/STANDARD/GEOGRAPHIC



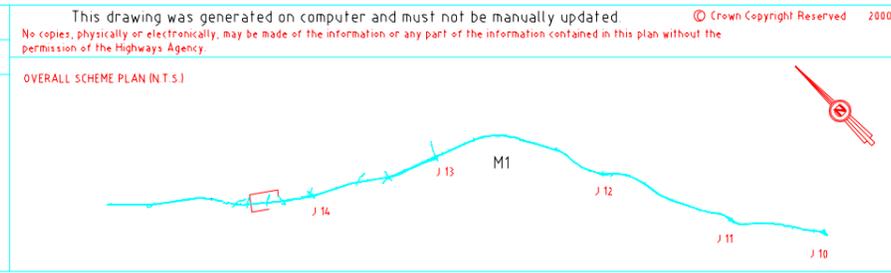
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CABLE OFFSET SCHEDULE - Longitudinal communications cable in metres from kerline (K) or fenceline (F)

MP LOCATION	CABLE OFFSET										
82/420A	K2.7	82/440A	K2.7	82/460A	K2.7	82/480A	K2.7	82/500A	K2.7	82/520A	K2.7
82/440A	K2.9	82/460A	K2.9	82/480A	K2.9	82/500A	K2.9	82/520A	K2.9	82/540A	K2.9
82/460A	K3.0	82/480A	K3.0	82/500A	K3.0	82/520A	K3.0	82/540A	K3.0	82/560A	K3.0
82/480A	K2.7	82/500A	K2.7	82/520A	K2.7	82/540A	K2.7	82/560A	K2.7	82/580A	K2.7
82/493A	K2.8	82/510A	K2.8	82/530A	K2.8	82/550A	K2.8	82/570A	K2.8	82/590A	K2.8
82/500A	K3.3	82/520A	K3.3	82/540A	K3.3	82/560A	K3.3	82/580A	K3.3	82/600A	K3.3
82/520A	K3.3	82/540A	K3.3	82/560A	K3.3	82/580A	K3.3	82/600A	K3.3	82/620A	K3.3
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82/660A	K2.6	82/680A	K2.6	82/700A	K2.6	82/720A	K2.6	82/740A	K2.6	82/760A	K2.6
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82/700A	K2.6	82/720A	K2.6	82/740A	K2.6	82/760A	K2.6	82/780A	K2.6	82/800A	K2.6
82/720A	K2.6	82/740A	K2.6	82/760A	K2.6	82/780A	K2.6	82/800A	K2.6	82/820A	K2.6
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82/760A	K2.6	82/780A	K2.6	82/800A	K2.6	82/820A	K2.6	82/840A	K2.6	82/860A	K2.6
82/780A	K2.6	82/800A	K2.6	82/820A	K2.6	82/840A	K2.6	82/860A	K2.6	82/880A	K2.6
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82/820A	K2.6	82/840A	K2.6	82/860A	K2.6	82/880A	K2.6	82/900A	K2.6		
82/840A	K2.6	82/860A	K2.6	82/880A	K2.6	82/900A	K2.6				
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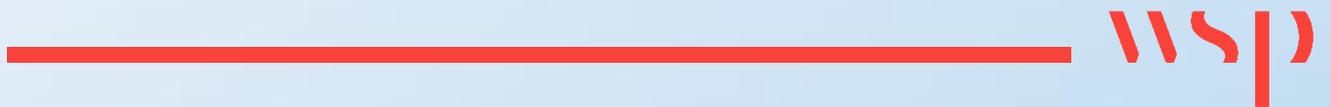


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SCALE: 1:2500	DATE: OCT. 2001	DRAWING No.: MCY/030/M1/DT	MARKER POSTS - FROM/TO: 82/4/83/9	ISSUE No.: A

TITLE: M1 COMMUNICATIONS RECORDS MP 82/4 TO 83/9

# Appendix D

## UTILITY DIVERSIONS





DO NOT SCALE

NOTES:

- DO NOT SCALE FROM THIS DRAWING.
- ALL DESIGN CRITERIA AND DIMENSIONS ARE SUBJECT TO APPROVAL FROM THE LOCAL AUTHORITY.

KEY:

- SITE BOUNDARY
- UTILITY INFRASTRUCTURE REQUIRED TO BE DIVERTED OR REMOVED
- PROPOSED DIVERSION ROUTE
- HV SUPPLY DIVERSION ROUTE OPTION 1
- HV SUPPLY DIVERSION ROUTE OPTION 2
- RISING MAIN DIVERSION ROUTE

UTILITIES:

- LOW VOLTAGE
- HIGH VOLTAGE (11KV)
- HIGH VOLTAGE OVER GROUND (11KV)
- FOUL WATER SEWER
- FOUL RISING MAIN
- TUNNEL SEWER
- SURFACE WATER SEWER
- LOW PRESSURE GAS
- POTABLE WATER
- POTABLE WATER ABANDONED
- FIBRE OPTIC

POTABLE WATER PROPOSED POINT OF CONNECTION TO BE MADE ON EXISTING 300mm MAIN. GRID REFERENCE SP 88657 42864

OPTION 2: HV SUPPLY TO COME ALONG MONKS WAY AND ENTER THE SITE THROUGH LONDON ROAD

VIKING ENCAMPMENT. ARCHAEOLOGICAL SITE REQUIRED TO BE PRESERVED IN SITU. IDENTIFIED IN RPS GEOPHYSICAL SURVEY MARCH 2020

UTILITIES TO BE DIVERTED TO AVOID ROUNDABOUT CONSTRUCTION

EXISTING SEWER TO REMAIN

OPTION 1: HV SUPPLY TO SITE TO BE WITHIN DUCTING OF PROPOSED M1 BRIDGE

RISING MAINS TO BE DIVERTED

HOTEL ELECTRICITY SUPPLY TO COME FROM PROPOSED DIVERTED ROUTE

EXISTING INFRASTRUCTURE TO BE DIVERTED TO FOLLOW PROPOSED ROAD NETWORK

FOUL SEWER TO BE DIVERTED BEYOND THIS POINT AND INTEGRATED INTO NEW FOUL NETWORK. PLEASE SEE DRAWING MKE-WSP-ZZ-ZZ-C-SK-0045

EXISTING DEVELOPMENT TO BE SUPPLIED FROM PROPOSED DIVERTED ROUTES

WATER SUPPLY TO BE DIVERTED. POTENTIAL FOR COMMERCIAL DEVELOPMENT TO BE SUPPLIED FROM EXISTING MAINS

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES OR STATUTORY BODIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR AND / OR EMPLOYER COMMENCE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT THEIR OWN RISK

PO2	02/02/2020	AH	UPDATED DIVERSIONS	IK	IK
PO1	20/11/2020	AH	FIRST ISSUE	IF	SNP
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: S2 - FOR INFORMATION



Grosvenor House, 2 Grosvenor Square, Southampton, SO15 2BE, UK  
T+ 44 (0) 2380 101 700  
wsp.com

CLIENT: BERKELEY GROUP

ARCHITECT: JTP/STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: UTILITY DIVERSIONS

SCALE @ A1: 1:5000 CHECKED: HP APPROVED: SAP

PROJECT NO: 70057521 DESIGNED: AH DRAWN: AH DATE: November 20

DRAWING NO: MKE-WSP-ZZ-ZZ-C-SK-0049 REV: P02

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File name: \\UK.VSPGROUP.COM\CENTRAL\DATA\PROJECTS\70057521\MKE - PLANNING APPLICATIONS\DRAWINGS\MKE-WSP-ZZ-ZZ-C-SK-0049.DWG, printed on 11 March 2021 17:58:08, by: Hecaval, Anthony

# Appendix E

## UTILITIES TRACKER



Utility Asset Description and Ownership											
Asset Reference Number	Plan Ref:	Utility Category	Utility Subcategory	Description <i>Brief description of asset</i>	Specification <i>(Quantity, size and material)</i>	Start Location <i>(coordinates, chainage, location)</i>	End Location <i>(coordinates, chainage, location)</i>	Asset Owner <i>Owner after Handover</i>	Easements (m) / Wayleaves reference	Works Required	Comments
<b>100000</b>		<b>Electricity</b>									
101001	E1	Electricity	High Voltage Electricity	HV Supply	TBC	Adjacent to walkway crossing the M1; 488151, 241600	Leaves site boundary at 488313, 242052	WPD		Diversion	Diverted to follow proposed highway over M1 and away from proposed roundabout
101002	E2	Electricity	High Voltage Electricity	HV Supply	TBC	Forms 'T' with 101001 at 488248, 241754	Supplies LV supply to Holiday Inn at 489074, 241645	WPD	0411005 & 1090	Diversion	Will not be effected by highway works but will require diversion to allow for construction of Phase 3
101003	E3	Electricity	High Voltage Electricity	HV Supply	TBC	Forms 'T' with 101002 at 489058, 241644	Supplies LV supply to Farm on Newport Road at 489569, 241246	WPD	Reference not available: MOULSOE GRASS DRIER LINE REPLACEMENT & 10987 & 12714	Diversion	To be diverted to follow the proposed highway alignment
101004	E4	Electricity	High Voltage Electricity	HV Supply	TBC	Forms 'T' with 101003 at 489284, 241391	Supplies Anglian Water pumping station at 489146, 241297	WPD	Reference not available: MOULSOE GRASS DRIER LINE REPLACEMENT & 1073	Diversion	Diverted to follow proposed highway alignment and supply proposed pumping station
101005	E5	Electricity	High Voltage Electricity	HV Supply	TBC	Enters site at 488639, 242556	Supplies LV supply along London Road at 488855,242641	WPD	SP/8842	Diversion	Will be effected by highway works on the A509 and Phase 2
101006	E6	Electricity	High Voltage Electricity	HV Supply	TBC	Adjacent to London Road at 488793, 242734	488853, 242637	WPD	41/B1566 & 44/P019444	Diversion	Will be effected by works on London Road
101007	E7	Electricity	High Voltage Electricity	HV Supply	TBC	Supplies 101006 at 488793, 242734	Located within south side of A509 before moving to the north side approximately 70m from Renny Lodge Roundabout. Continues east, supplying Interchange Park.	WPD		Diversion	Will be effected by proposed works at Tickford Roundabout & Renny Lodge Roundabout. Will also require diversionary work at the proposed Eastern Link Roundabout
101008	E8	Electricity	High Voltage Electricity	HV Supply	TBC	Connected to 101007 at 488939, 242976	North up Renny Park Road	WPD		None	Works at Tickford and Renny Lodge Roundabout are not expected to impact on this asset. This may change if proposed works are planned to the east of Renny Lodge Roundabout
101009	E9	Electricity	High Voltage Electricity	HV Supply	TBC	Located to the north of A422 at Marsh End Roundabout and heads east, crossing to the south side of A509 between Tickford and Renny Lodge Roundabouts	North Crawley Road Bridge	WPD	44/0019639	Diversion	Will require diversionary work as part of works at Tickford and Renny Lodge Roundabout, and proposed roundabout at Eastern Link Roundabout
101010	E10	Electricity	High Voltage Electricity	HV Supply	TBC	Connected to 101009 at 488817, 242884	Supplies Interchange Park via south west corner	WPD		Diversion	May require diversionary works as part of works at Tickford and Renny Lodge Roundabout
101011	E11	Electricity	High Voltage Electricity	HV Supply	TBC	Located to the north of A422 at Marsh End Roundabout and heads east	North up London Road at Tickford Roundabout	WPD		None	Works at Tickford and Renny Lodge Roundabout are not expected to impact on this asset. This may change if proposed works are west of Tickford Roundabout
101012	E12	Electricity	High Voltage Electricity	HV Supply	TBC	Located to the south east of the development at 490792, 240963	490968, 241109	WPD	41/SP 9042 & 9041	Diversion	Effected by Phase 3
101013	E13	Electricity	High Voltage Electricity	HV Supply	TBC	To the east of Tongwell Street at 488269, 240911	A509 / Tongwell Street Roundabout at 488436, 240388	WPD		Lowering	Underground asset connected to substation at STW
102001	E14	Electricity	Low Voltage Electricity	LV Supply	TBC	Supplied by HV cable 101002 at 489074, 241645	Holiday Inn	WPD		Diversion	Effected by Phase 3 and highway works along A509
102002	E15	Electricity	Low Voltage Electricity	LV Supply	TBC	Supplied by HV Cable 101003 at 489569, 241246	Newport Road Farm	WPD	Reference not available: MOULSOE GRASS DRIER LINE REPLACEMENT & 10987 & 12714	Diversion	Effected by Phase 1 Employment
102003	E16	Electricity	Low Voltage Electricity	LV Supply	TBC	Supplied by HV Cable 101003, forms 'T' with LV cable 102002 at 489589	Leaves site at Junction 14; 489226, 240962	WPD	41/8841 & 10987 & 12714	Diversion	Diverted to follow proposed highway alignment. Additionally, will be effected by works at Junction 14
102004	E17	Electricity	Low Voltage Electricity	LV Supply	TBC	Supplied by HV Cable 101003, forms 'T' with LV cable 102003 at 489489	Supplies The Old Stables	WPD	41/8841	Diversion	Effected by Phase 3
102005	E18	Electricity	Low Voltage Electricity	LV Supply	TBC	Supplied by HV Cable 101005 at 488855, 242641	Supplies Farm along London Road	WPD	11135	Diversion	Effected by highways works along London Road
102006	E19	Electricity	Low Voltage Electricity	LV Supply	TBC	Supplied by HV Cable 101005 at 488855, 242641	Supplies Newport Stables	WPD	11135 & 44/P019444	Diversion	Effected by highways works along London Road
102007	E20	Electricity	Low Voltage Electricity	LV Supply	TBC	North of Tickford Roundabout within east side of London Road	North of Renny Lodge Roundabout within west side of Renny Park Road	WPD		Diversion	Will require diversionary works as part of works at Tickford and Renny Lodge Roundabout
102008	E21	Electricity	Low Voltage Electricity	LV Supply	TBC	Crosses Tongwell Street at 488270, 240859		WPD		Lowering	Underground asset connected to substation at STW
<b>200000</b>		<b>Domestic Water</b>									
201001	W1	Domestic Water	Mains Cold Water Supply	Potable Water Supply M	4" CI / 125mm	Enters the site at 489533, 240682	Forms 'T' on Newport Road at 489373, 241090	Anglian Water		Diversion	Effected by Phase 1 Employment
201002	W2	Domestic Water	Mains Cold Water Supply	Potable Water Supply M	100mm AC	Supplied by 201001 at 489373, 241090	Supplies the village of Moulsoe and leaves the site at 490065, 241319	Anglian Water		Diversion	Diverted to follow proposed highway alignment. Effected by Phase 1 Employment
201003	W3	Domestic Water	Mains Cold Water Supply	Potable Water Supply M	125mm MDPE	Supplied by 201001 at 489373, 241090	Supplies Holiday Inn at 489117, 241759	Anglian Water		Diversion	Diversion works required to south to follow proposed highway alignment. North section may require lowering for works on London Road
201004	W4	Domestic Water	Mains Cold Water Supply	Potable Water Supply M	90mm MDPE	Enters the site at 488754, 242879	Supplies the houses at 488777, 242773	Anglian Water	Wayleave available but no reference given	Diversion	Effected by works within London Road and Tickford / Renny Lodge Roundabouts
201005	W5	Domestic Water	Mains Cold Water Supply	Potable Water Supply M	300mm DI / 3	Located to the north side of A422/A509 between Marsh End Roundabout and North Crawley Road Bridge		Anglian Water		Diversion	Diversionary works required at Tickford / Renny Lodge Roundabouts and proposed Eastern Link roundabout
201006	W6	Domestic Water	Mains Cold Water Supply	Potable Water Supply M	225mm HPPE	489760, 243133	489861, 242991	Anglian Water		Lowering	Effected by proposed link from Eastern Link Roundabout 3
201007	W7	Domestic Water	Mains Cold Water Supply	Potable Water Supply M	300mm DI	Located to the east of Tongwell Street		Anglian Water		Protection	Lowering may be required depending on depth
<b>300000</b>		<b>Telecommunications</b>									
301001	T1	Telecommunications	Data Transmission Network	Virgin Media Telecoms	TBC	Enters the site at Tickford Roundabout; 488655, 242843	Follows London Road down to junction with Newport Road, then heads east	Virgin Media		Diversion	Diverted to follow proposed highway alignment. Also effected by highway works along London Road; will require diversion at proposed roundabout and lowering for further extents within London Road.
302001	T2	Telecommunications	Data Transmission Network	Zayo Telecoms	TBC	Enters the site at Tickford Roundabout; 488773, 242867	Follows London Road down to Junction 14 Roundabout, follows the roundabout clockwise before running adjacent to the southern boundary of the site and exiting the boundary at 489510, 240694	Zayo Group		Diversion	Diverted to follow proposed highway alignment. Also effected by highway works along London Road; will require diversion at proposed roundabout and lowering for further extents within London Road.
302002	T3	Telecommunications	Data Transmission Network	Zayo Telecoms	TBC	Enters the site at Tickford Roundabout; 488773, 242867	Heads east, initially on the southern side of A509 before crossing and continuing along the northern side towards North Crawley Road Bridge.	Zayo Group		Diversion	Effected by proposed crossing at Tickford / Renny Lodge Roundabout, and The proposed Eastern Link Roundabout
303001	T4	Telecommunications	Data Transmission Network	Vodafone Telecoms	TBC	Enters the site at Tickford Roundabout; 488655, 242843	Continues along the southern side of A509 towards North Crawley Road Br	Vodafone		Diversion	Effected by proposed crossing at Tickford / Renny Lodge Roundabout, and The proposed Eastern Link Roundabout
304001	T5	Telecommunications	Data Transmission Network	OpenReach Telecoms	TBC	Enters the site at Tickford Roundabout; 488730, 242873	Supplies all the properties along London Road before travelling along Newport Road to supply to the Old Stables	Openreach		Diversion	Diverted to follow proposed highway alignment. Also effected by highway works along London Road; will require diversion at proposed roundabout and lowering for further extents within London Road.
304002	T6	Telecommunications	Data Transmission Network	OpenReach Telecoms	TBC	Forms 'T' with 304001 at 488769, 242794	Located adjacent to boundary and leaves the site at 488579, 242688	Openreach		Diversion	Effected by Phase 2 of the development
304003	T7	Telecommunications	Data Transmission Network	OpenReach Telecoms	TBC	Connected to 304001 at 489267, 241062	Exits site at junction 14; 489230, 240920	Openreach		Diversion	Diversionary work required as park of works at Junction 14

**DRAFT**

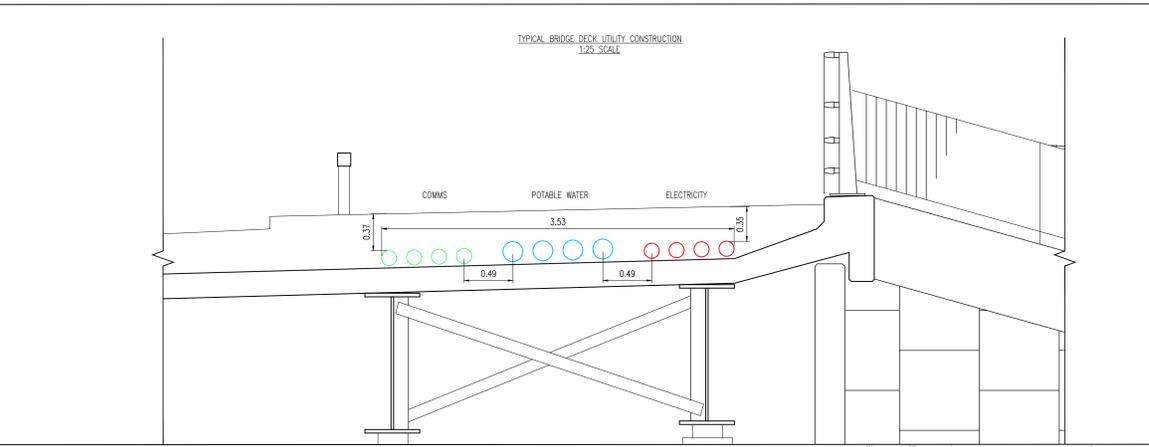
304004	T8	Telecommunicati	Data Transmission Network	OpenReach Telecoms	TBC	Enters the site at Tickford Roundabout; 488730, 242873	Located within Tickford Roundabout, splits and heads north up both Londo	Openreach		Diversion	Diversionary works required at Tickford / Renny Lodge Roundabouts
304005	T9	Telecommunicati	Data Transmission Network	OpenReach Telecoms	TBC	Located within and adjacent to Tongwell Street		Openreach		Lowering	
305001	T10	Telecommunicati	Data Transmission Network	Highway Authority	TBC	Along M1	Along M1	Highways England		Diversion	May require diversionary work to enable construction of M1 bridge
306001	T11	Telecommunicati	Data Transmission Network	CGT	TBC	Along M1	Along M1	CGT		Diversion	May require diversionary work to enable construction of M1 bridge
307001	T12	Telecommunicati	Data Transmission Network	Telnet - Data cabling	TBC	Along M1	Along M1	Telnet		Diversion	May require diversionary work to enable construction of M1 bridge
<b>400000</b>		<b>Drainage</b>									
401001	D1	Drainage	Foul	Foul Water Pipe	150mm CI	Enters the site at 490021, 241387	Flows towards pumping station at 489118, 241286	Anglian Water		Abandoned	Flows from this main to be integrated into development foul strategy
401002	D2	Drainage	Foul	Rising Main	TBC	Flows from pumping station at 489118, 241286	Exits the site at the M1; 488848, 241137	Anglian Water		Abandoned	Proposed to construct a new rising main to manage flows from the development
401003	D3	Drainage	Foul	Rising Main	450mm CI	Enters the site at 488273, 242047	Exits the site at 488522, 241415	Anglian Water	7	Protection	Effected by Phase 3 and proposed highway works
401004	D4	Drainage	Foul	Rising Main	450mm UPVC	Enters the site at 488264, 242047	Exits the site at 488463, 241389	Anglian Water	7	Protection	Effected by Phase 3 and proposed highway works
401005	D5	Drainage	Foul	Tunnel Sewer	2.4m Material	Enters the site at 488262, 241515	Exits the site at 488242, 242047	Anglian Water	13	Protection	
401006	D6	Drainage	Foul	Tunnel Sewer	2430mm	Located to the east of Tongwell Street at approximately 488361, 240496		Anglian Water		Protection	Highway works are currently expected to stop short of area but protection works may be required
402001	D7	Drainage	Surface	Surface water pipe	300mm PVC	Located to the east of Tongwell Street at approximately 488361, 240496		Anglian Water		Protection	Highway works are currently expected to stop short of area but protection works may be required
<b>500000</b>		<b>Gas</b>									
501001	G1	Gas	Gas Supply - LP	Low Pressure Gas Supply	6" PE	Enters the site along London Road at 488795, 242735	Supplies Holiday Inn at 489150, 241740	Cadent		Diversion	Diversionary work required at proposed roundabout on London Road. Diversionary / lowering required for remaining extents
501002	G2	Gas	Gas Supply - LP	Low Pressure Gas Supply	180mm PE	Supplies gas main 501001	Crosses the A509, splits and heads north up London Road and Renny Park F	Cadent		Diversion	Effected by proposed crossing at Tickford / Renny Lodge Roundabout
501003	G3	Gas	Gas Supply - LP	Low Pressure Gas Supply	180mm PE	489094, 243116; to the north of A509	489251, 243348; supplies Interchange Park	Cadent		None	Utility records suggest that asset is sufficiently distanced from the proposed Eastern Link Roundabout

**DRAFT**

# Appendix F

## **PROPOSED HIF FOUL DRAINAGE AND UTILITY ROUTES**





DO NOT SCALE

- NOTES:
1. DRAWINGS ARE PREPARED TO SUPPORT DETAILED PLANNING APPLICATION FOR THE STRATEGIC HIGHWAY INFRASTRUCTURE ASSOCIATED WITH MILTON KEYNES EAST (MKE) DEVELOPMENT.
  2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
  3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, DRAWINGS AND STANDARDS DETAILS.
  4. THIS DRAWING IS NOT TO BE REPRODUCED IN ANY PART OF FORM WITHOUT PRIOR CONSENT FROM WSP UK LIMITED, ALL COPY RIGHT RESERVED.
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  6. CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.
  7. THE MILTON KEYNES HIGHWAY BOUNDARY IS TAKEN FROM INTERACTIVE HIGHWAY BOUNDARY MAPPING FOUND ON THE MILTON KEYNES COUNCIL'S WEBSITE.
  8. TOPOGRAPHICAL INFORMATION PROVIDED BY MK SURVEYS FILE - "28562" ON THE 11/06/2020 AND 3D ENGINEERING SURVEYS FILE - "DES21007\_MKE\_REV1" ON THE 22/02/2021. WSP CAN NOT ACCEPT RESPONSIBILITY FOR ANY INACCURACIES.
  9. PUMPING STATIONS MAY REQUIRE DOSING
  10. FOR SECTION DETAILS SEE DRAWING MKE-WSP-ZZ-ZZ-C-SK-0105.
  11. FOR BRIDGE DECK DETAILS SEE DRAWING MKE-WSP-CBR-M18-DR-BR-001.
  12. EXACT NUMBER OF DUCTS AND SERVICES SHALL BE DETERMINED AT DETAILED DESIGN
  13. FOR SURFACE WATER DRAINAGE SEE MKE-WSP-ZZ-ZZ-C-DR-0501 TO 0542 AND MKE-WSP-ZZ-ZZ-C-DR-0501 TO 0552.

- KEY:
- SITE BOUNDARY
- FOUL KEY:
- PROPOSED GRAVITY SEWER
  - PROPOSED RISING MAIN
  - PROPOSED PUMPING STATION
  - EXISTING MAIN TO BE ABANDONED
- UTILITIES KEY:
- HV — PROPOSED HIGH VOLTAGE
  - PROPOSED PRIMARY SUBSTATION (100m x 100m)
  - POTABLE WATER
  - CLP — PROPOSED GAS
  - OF — PROPOSED FIBRE - OPENREACH
  - VF — PROPOSED FIBRE - VIRGIN MEDIA

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REV	DATE	BY	DESCRIPTION	CHK	APP
P01	24/02/2021	AH	FOUL RISING MAIN TO SKM ADDED	NI	SKM
P01	12/02/2021	AH	FIRST ISSUE	NI	SKM

DRAWING STATUS: **S2 - FOR INFORMATION**

Mountain House, Basing View, Basingstoke, RG21 4HL UK  
T +44 (0) 1256 316 800, F +44 (0) 1256 316 700  
wsp.com

CUSTOMER: **BERKELEY ST JAMES**

ADDRESSEE: **JTP / STEPHEN GEORGE AND PARTNERS**

PROJECT: **MILTON KEYNES EAST**

TITLE: **PROPOSED HF FOULED DRAINAGE AND UTILITIES SHEET 1 OF 2**

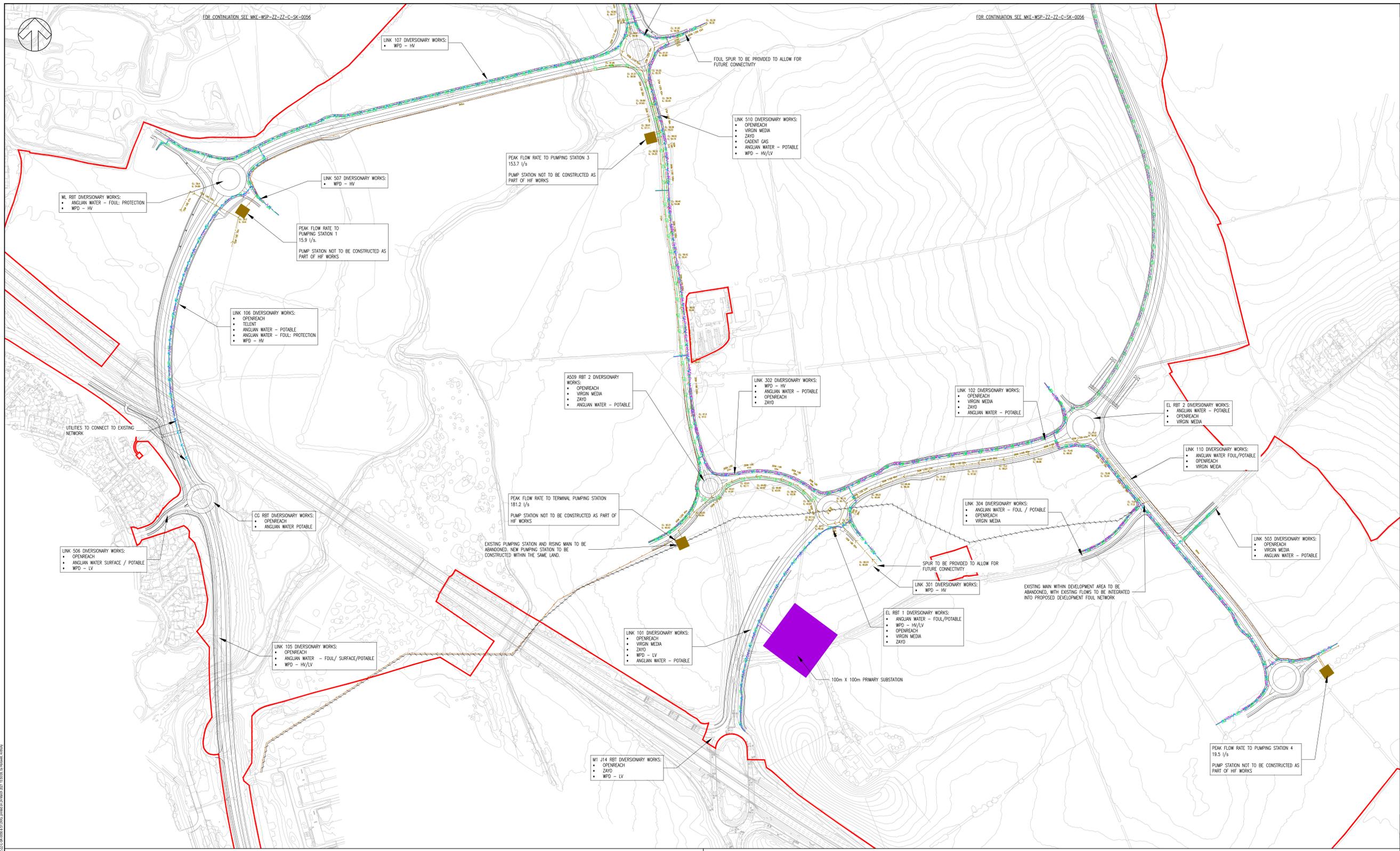
SCALE	DESIGNED	CHECKED	APPROVED
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PROJECT NO.	DESIGNED	CHECKED	DATE
70057521	AH	AH	March 21

DRAWING NO: **MKE-WSP-ZZ-ZZ-C-SK-0056** P02

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FOR CONTINUATION SEE MKE-WSP-ZZ-ZZ-C-SK-0057

FOR CONTINUATION SEE MKE-WSP-ZZ-ZZ-C-SK-0057



**DO NOT SCALE**

- NOTES:**
1. DRAWINGS ARE PREPARED TO SUPPORT DETAILED PLANNING APPLICATION FOR THE STRATEGIC HIGHWAY INFRASTRUCTURE ASSOCIATED WITH MILTON KEYNES EAST (MKE) DEVELOPMENT.
  2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
  3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT DOCUMENTATION, DRAWINGS AND STANDARD DETAILS.
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  11. FOR BRIDGE DECK DETAILS SEE DRAWING MKE-WSP-CBR-M18-DR-BR-001.
  12. EXACT NUMBER OF DUCTS AND SERVICES SHALL BE DETERMINED AT DETAILED DESIGN.
  13. FOR SURFACE WATER DRAINAGE SEE MKE-WSP-ZZ-ZZ-C-SR-0591 TO 0542 AND MKE-WSP-ZZ-ZZ-C-SR-0591 TO 0592.

- KEY:**
- SITE BOUNDARY
- FOUL KEY:**
- PROPOSED GRAVITY SEWER
  - PROPOSED RISING MAIN
  - PROPOSED PUMPING STATION
  - EXISTING MAIN TO BE ABANDONED
- UTILITIES KEY:**
- PROPOSED HIGH VOLTAGE
  - PROPOSED PRIMARY SUBSTATION (100m x 100m)
  - PROPOSED POTABLE WATER
  - PROPOSED GAS
  - PROPOSED FIBRE - OPENREACH
  - PROPOSED FIBRE - VIRGIN MEDIA



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REV	DATE	BY	DESCRIPTION	CHK	APP
P01	24/02/2021	AH	FOUL RISING MAIN TO STW ADDED	HE	SK
P01	12/02/2021	AH	FIRST ISSUE	HE	SK

DRAWING STATUS: **S2 - FOR INFORMATION**



Mountbatten House, Basing View, Basingstoke, RG21 4HL UK  
T +44 (0) 1256 316 800, F +44 (0) 1256 316 700  
wsp.com

**CLIENT:** BERKELEY ST JAMES

**ARCHITECT:** JTP / STEPHEN GEORGE AND PARTNERS

**PROJECT:** MILTON KEYNES EAST

**TITLE:** PROPOSED HIF FOUL DRAINAGE AND UTILITIES SHEET 2 OF 2

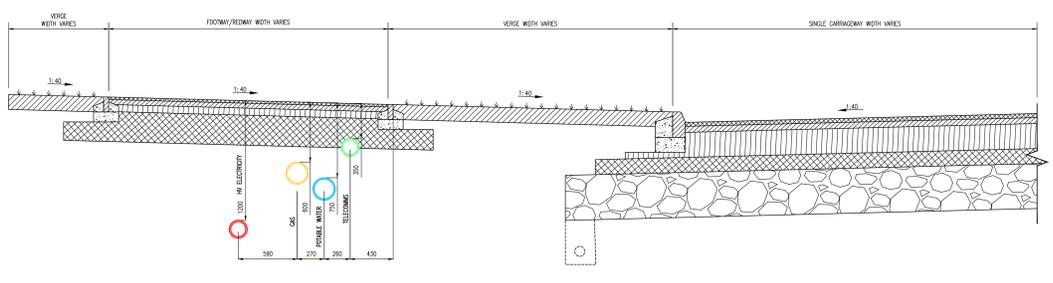
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PROJECT NO	DATE	REV
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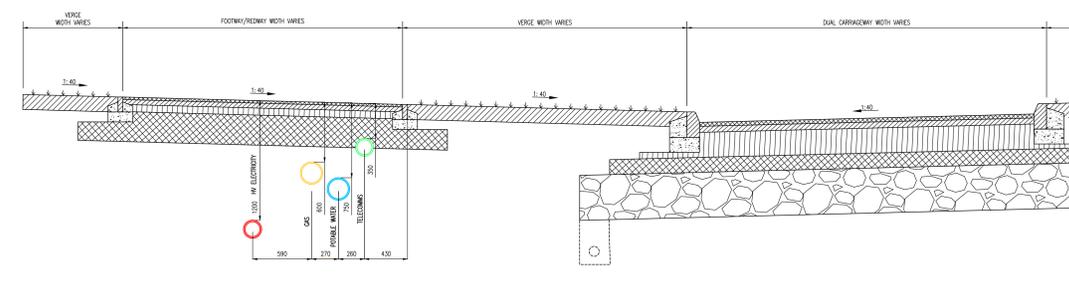
**DRAWING NO:** MKE-WSP-ZZ-ZZ-SK-0057 **REV:** P02

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**TYPICAL SINGLE CARRIAGEWAY UTILITY CONSTRUCTION 1:25 SCALE**



**TYPICAL DUAL CARRIAGEWAY UTILITY CONSTRUCTION 1:25 SCALE**





Grosvenor House  
2 Grosvenor Square  
Southampton  
SO15 2BE

**wsp.com**

