

# GROUNDWISE



Groundwise Searches Ltd



Constructionline



## Groundwise Searches Limited

Suite 8, Chichester House

45 Chichester Road

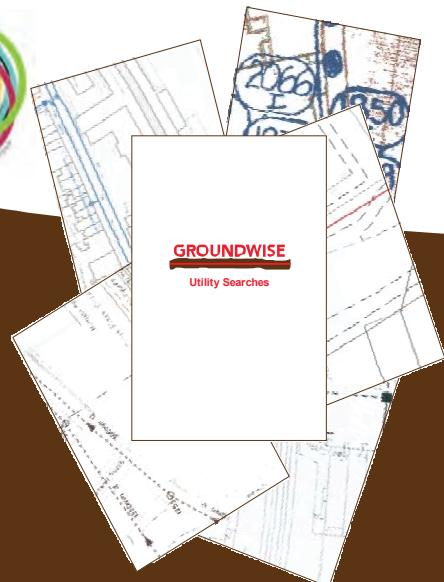
Southend on Sea

Essex, SS1 2JU

Telephone 01702 615566

Email [mail@groundwise.com](mailto:mail@groundwise.com)

Website [www.groundwise.com](http://www.groundwise.com)



# GROUNDWISE

## Groundwise Searches Ltd

**Product** Desktop Utility Search

**Scope** PAS 128 – Level D

**Groundwise Reference** 27840DM

**Site** Land and Buildings on the East side of Dawley Road, Hayes, UB3 1DA

**Client** Searchflow

**Company** Gowling WLG

**Client Reference** SF29805074000

### Purchase Order



**Researcher**

Debbie Miller  
dmiller@groundwise.com

### Groundwise Searches Limited

Suite 8, Chichester House

45 Chichester Road

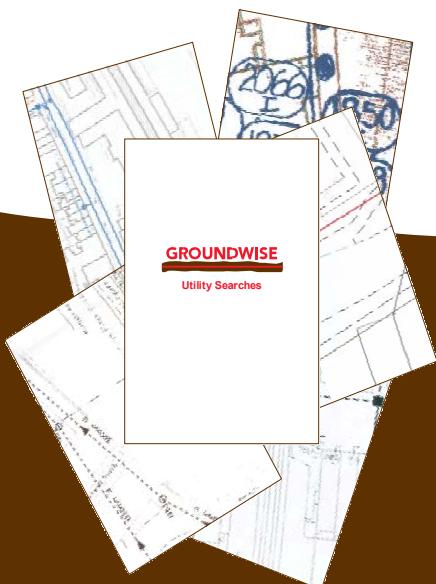
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## Groundwise Searches Ltd

Groundwise Reference

27840DM

Site

Land and Buildings on the East side of Dawley Road, Hayes, UB3 1DA

Version	Date Issued	Notes
#1	24/02/2021	Utility Report issued to Client – Complete.

### Groundwise Searches Limited

Suite 8, Chichester House

45 Chichester Road

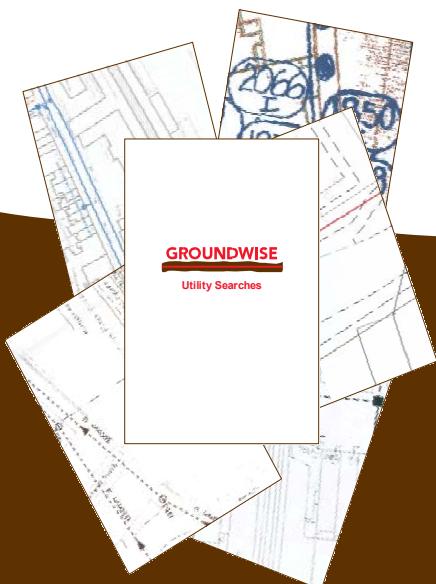
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## Groundwise Searches Ltd

Groundwise Reference	27840DM
Site	Land and Buildings on the East side of Dawley Road, Hayes, UB3 1DA

**Click on a Data Supplier to view their response**

Type	Data Supplier	Date Sent	Assets in Area
Electricity	Last Mile	24/2	
Electricity	SSE	24/2	x
Electricity	Utility Assets Ltd	24/2	
Gas	Fulcrum	24/2	x
Gas	GTC	24/2	
Gas	Cadent	24/2	x
Mobile Phone Masts	Mast Data	24/2	
Telecom	BskyB Telecommunications Services Ltd	24/2	
Telecom	BT	24/2	x
Telecom	C.A. Telecom - Colt	24/2	
Telecom	CityFibre	24/2	
Telecom	euNetworks	24/2	x
Telecom	Instalcom Ltd	24/2	x
Telecom	MBNL	24/2	
Telecom	SSE	24/2	x
Telecom	Trafficmaster	24/2	
Telecom	Verizon	24/2	
Telecom	Virgin Media	24/2	x
Telecom	Vodafone	24/2	x
Transport	Crossrail	24/2	
Transport	HS1 / HS2	24/2	
Transport	London Underground HV Power Assets	24/2	
Transport	London Underground	24/2	
Transport	Network Rail	24/2	
Transport	Transport for London	24/2	
Tunnels	MOD	24/2	
Tunnels	Thames Tideway Tunnels	24/2	
Various	HSE	24/2	
Various	LinesearchbeforeUdig	24/2	
Distribution	Cadent	24/2	x
Transmission	National Grid	24/2	
District Energy	ENGIE	24/2	

## Debbie Miller

---

**From:** Plant Enquiries <[plantenquiries@lastmile-uk.com](mailto:plantenquiries@lastmile-uk.com)>  
**Sent:** 11 February 2021 16:31  
**To:** Debbie Miller  
**Subject:** RE: Ref: 27840DM - Site: Land and Buildings on the East side of Dawley Road, Hayes, UB3 1DA

Dear Sir/Madam,

Thank you for submitting your recent plant enquiry.

Based on the information provided, I can confirm that Last Mile **does not** have any plant within the area(s) specified in your request.

If you require further assistance with outstanding enquiries, please call 03300 587 443.

Please ensure all plant enquiries are sent to [plantenquiries@lastmile-uk.com](mailto:plantenquiries@lastmile-uk.com)

Regards



### Plant Enquiries

|  
e: [plantenquiries@lastmile-uk.com](mailto:plantenquiries@lastmile-uk.com) | w: [www.energetics-uk.com](http://www.energetics-uk.com)  
a: Fenick House, Lister Way, Hamilton International Technology Park



---

**From:** Debbie Miller <[DMiller@groundwise.com](mailto:DMiller@groundwise.com)>

**Sent:** 11 February 2021 16:04

**To:** Plant Enquiries <[plantenquiries@lastmile-uk.com](mailto:plantenquiries@lastmile-uk.com)>; [osm.enquiries@atkinsglobal.com](mailto:osm.enquiries@atkinsglobal.com); [plantenquiries@instalcom.co.uk](mailto:plantenquiries@instalcom.co.uk); [osp-team@uk.verizonbusiness.com](mailto:osp-team@uk.verizonbusiness.com); [LULHpowerassets@tfl.gov.uk](mailto:LULHpowerassets@tfl.gov.uk); [plantenquiries@psgservices.co.uk](mailto:plantenquiries@psgservices.co.uk); [locationenquiries@tube.tfl.gov.uk](mailto:locationenquiries@tube.tfl.gov.uk); [plantenquiries@tfl.gov.uk](mailto:plantenquiries@tfl.gov.uk); [plantenquiries@catelecomuk.com](mailto:plantenquiries@catelecomuk.com); [NRSWA@bskyb.com](mailto:NRSWA@bskyb.com); [OPBuriedServicesEnquiries@networkkraill.co.uk](mailto:OPBuriedServicesEnquiries@networkkraill.co.uk); [plantenquiries@trafficmaster.co.uk](mailto:plantenquiries@trafficmaster.co.uk); [assetrecords@utilityassets.co.uk](mailto:assetrecords@utilityassets.co.uk); [Katie.Bowdich100@mod.gov.uk](mailto:Katie.Bowdich100@mod.gov.uk); [LONDONSTREETS@tfl.gov.uk](mailto:LONDONSTREETS@tfl.gov.uk); [mbnl.plant.enquiries@turntown.com](mailto:mbnl.plant.enquiries@turntown.com)

**Subject:** Ref: 27840DM - Site: Land and Buildings on the East side of Dawley Road, Hayes, UB3 1DA

**Ref: 27840DM**

**Site: Land and Buildings on the East side of Dawley Road, Hayes, UB3 1DA**

**Easting/Northing: 508968,180017**

**Requests:**

**For your reference, we have provided a site plan. Please use both the grid reference/postcode & site plan when responding to our requests.**

We are doing research on the above site for a client and would be grateful if you could confirm whether the above operators have any cabling or apparatus in the immediate vicinity. Should there be anything detected in the vicinity plus 50 meters around the site, I would appreciate a plan showing the location. The reason we need the information is so our client can avoid digging through your cables or can investigate the potential for connecting with your network.

Our Ref: 21267938      Your Ref: 27840

Tuesday, 23 February 2021

Joe Shawyer  
Suite 8 Chichester House Suite 8 Chichester House 45 Chichester Road  
Southend on Sea  
Essex  
SS1 2JU

---

Dear Joe Shawyer

**SSE Networks - Asset Network Plans**

We have sent you the plans of our network records within the area requested. You will shortly receive responses each of the following; any High Voltage Mains cables and Low Voltage Mains cables.

Attached to this email is the 'Guide to Interpreting' which includes the legends for the plans on pages 7-9.

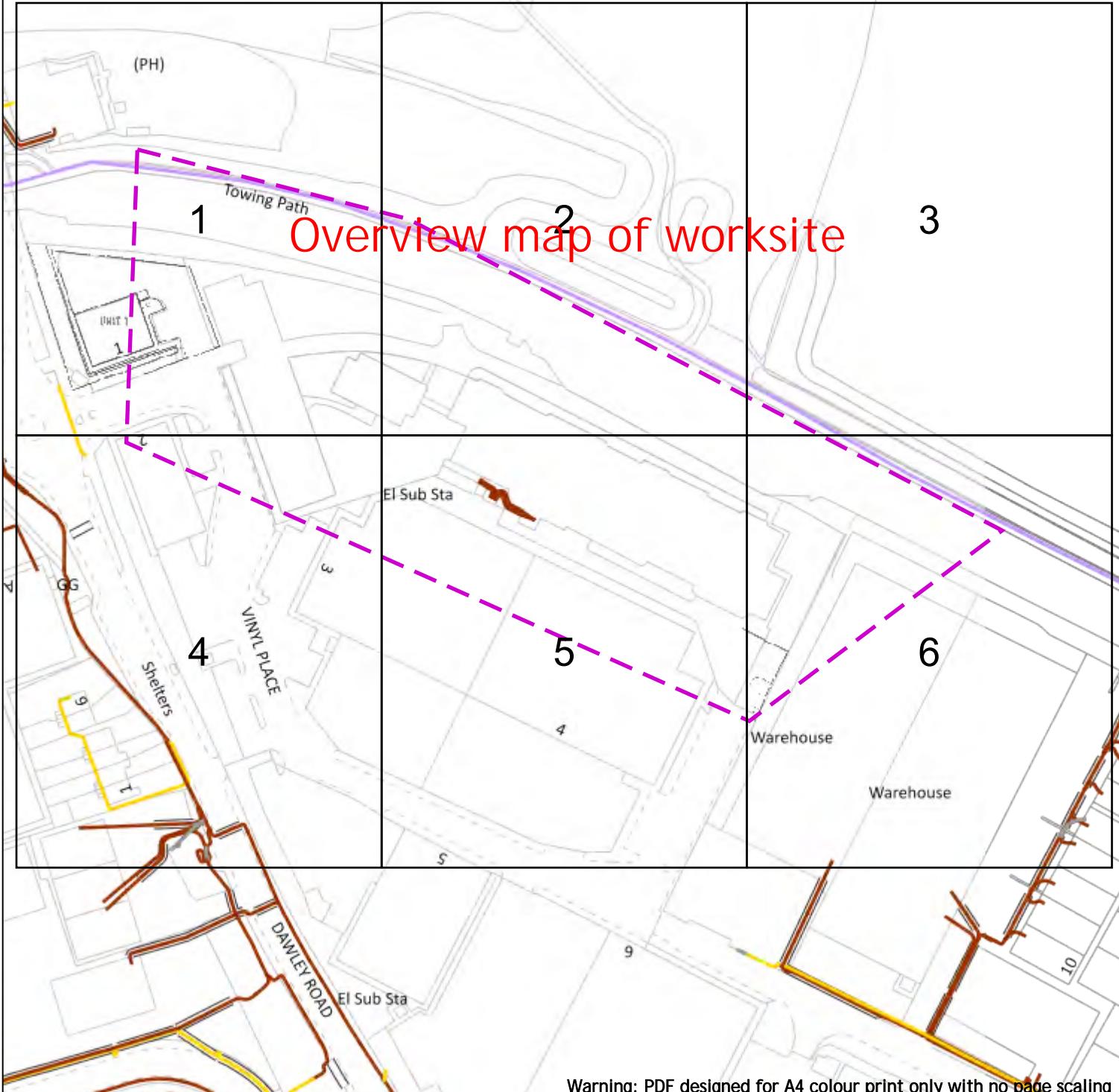
If a Service Cable is not shown on our maps sent, and you require the Cable to be Traced, please contact the General Enquiries Department on 0800 048 3516 (option 3) or via email, [ge@ssen.co.uk](mailto:ge@ssen.co.uk)

If you need further information on our network in this area or a quotation for any required works, please contact the Connections & Engineering Department on 0800 048 3516 or via email, [connections@sse.com](mailto:connections@sse.com)

Kind Regards,

Asset Data Team  
01256 337 294  
[Asset.data@sse.com](mailto:Asset.data@sse.com)

# Overview map of worksite



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

Dig Sites

Area:

Line:

Date Requested: 23/02/2021  
 Job Reference: 21267938  
 Site Location: 508968 180017  
 Requested by: Mr Joe Shawyer  
 Your Scheme/Reference: 27840

Voltages (V)			
LV (Low Voltage) and Services			Up to 1,000V
HV (High Voltage)			Over 1,000V to 11,000V
EHV (Extra High Voltage)			22,000V to 132,000V
Transmission			275,000V and 400,000V
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID			
Footpath/Unmade	Services	LV	HV
Road Crossing		0.45m	0.45m
Agricultural		0.6m	0.6m
		1m	1m
		0.75m	0.9m
		1m	1.1m



#### Distribution Structures (Electric)

Pole Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route



Scottish & Southern Electricity Networks

#### Scottish and Southern Energy Power Distribution Ltd.

Registered Office: Inveralmond House,  
 200 Dunkeld Road, Perth, PH1 3AQ  
 Registered in Scotland No. SC213459

If you're unsure & need to seek advice before commencing excavations, please contact:  
 General Enquiries: 0800 048 3516

Subject to revision – Master held by SSEN Asset Data Team:  
[Asset.Data@sse.com](mailto:Asset.Data@sse.com)  
 01256 337 294

Scale: 1:1537 (When plotted at A4)

**WARNING**  
 There may have been subsequent alteration to the surface levels. Trial holes must be undertaken to determine position and depths of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work.  
 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

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 Plans generated by DigSAFE Pro™ software provided by Linesearchbeforedig.

The Woolpack

(PH)

1

Towing Path

UNIT 1

0 20m  
Dig Sites Area:  Line:   
Date Requested: 23/02/2021  
Job Reference: 21267938  
Site Location: 508968 180017  
Requested by: Mr Joe Shawyer  
Your Scheme/Reference: 27840

Voltages (V)				
LV (Low Voltage) and Services	Up to 1,000V			
HV (High Voltage)	Over 1,000V to 11,000V			
EHV (Extra High Voltage)	22,000V to 132,000V			
Transmission	275,000V and 400,000V			
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
Footpath/Unmade	0.45m	0.45m	0.6m	0.8m
Road Crossing	0.6m	0.6m	0.75m	0.9m
Agricultural	1m	1m	1m	1.1m

Legend  
Service Cables  
LV Main  
2 - 3.3kV  
6.6kV  
11kV  
22kV  
33kV  
50kV  
112kV  
275kV  
400kV  
Fibre Optic  
Ella Cables

Distribution Structures (Electric)  
Pole Existing Location  
Pole Structure, Existing Location - Single  
Pole Structure, Existing Location - H  
Duct Route  
Cross Section Route



Scottish & Southern Electricity Networks

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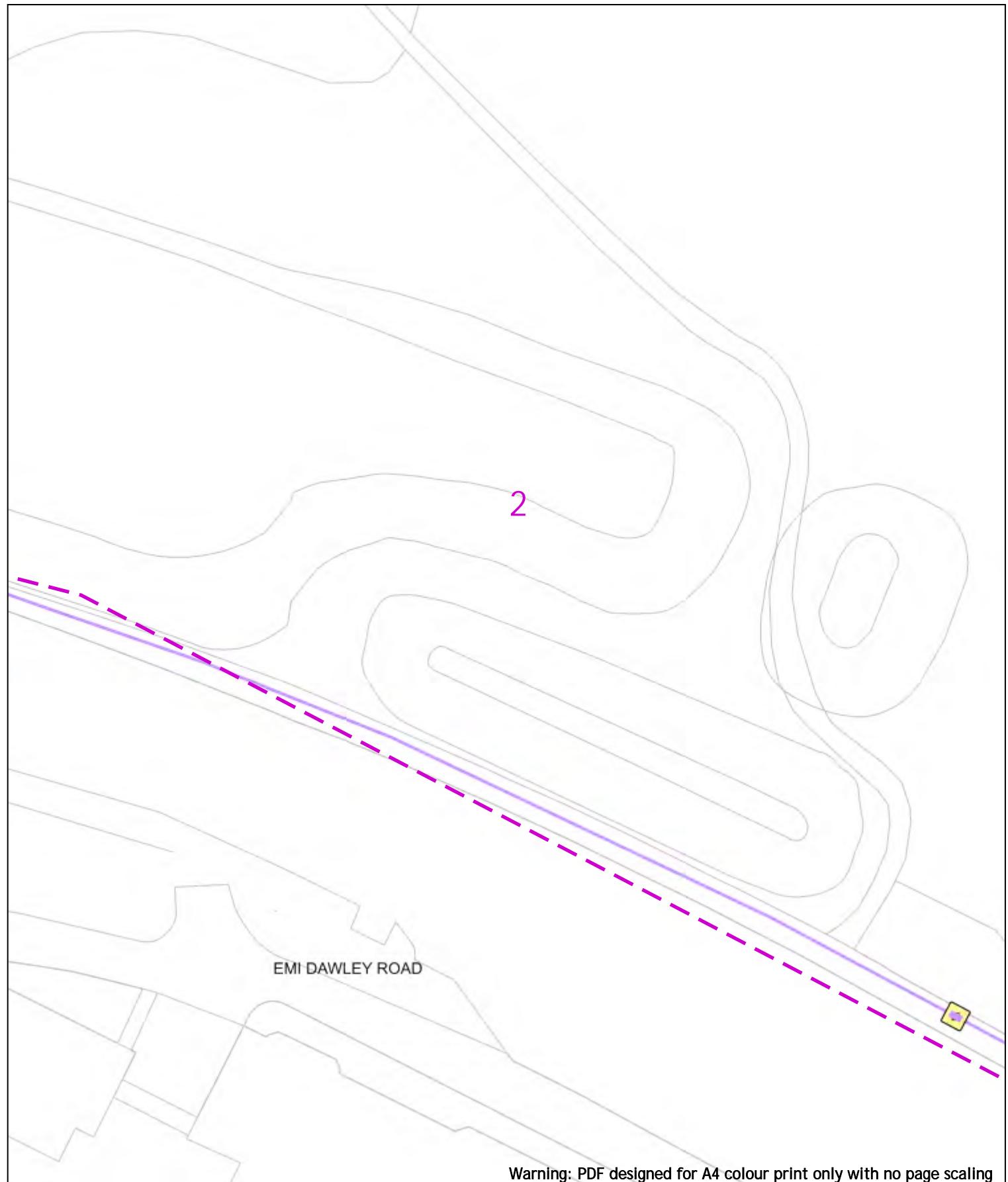
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[Asset.Data@sse.com](mailto:Asset.Data@sse.com)  
01256 337 294

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0 20m Dig Sites Area:

Date Requested: 23/02/2021

Job Reference: 21267938

Site Location: 508968 180017

Your Scheme/Reference: 27840

Voltages (V)			
LV (Low Voltage) and Services	Up to 1,000V		
HV (High Voltage)	Over 1,000V to 11,000V		
EHV (Extra High Voltage)	22,000V to 132,000V		
Transmission	275,000V and 400,000V		
<b>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID</b>			
	Services	I.V.	H.V.

Legend:

- Service Cable
- EV Main
- 2-3.3kV
- 6kV
- 11kV
- 22kV
- 33kV
- 50kV
- 132kV
- 275kV
- 400kV
- Fiber Optic
- fiber Cable

### Distribution Structures (Electric)



Scottish and Southern Energy Power Distribution Ltd.

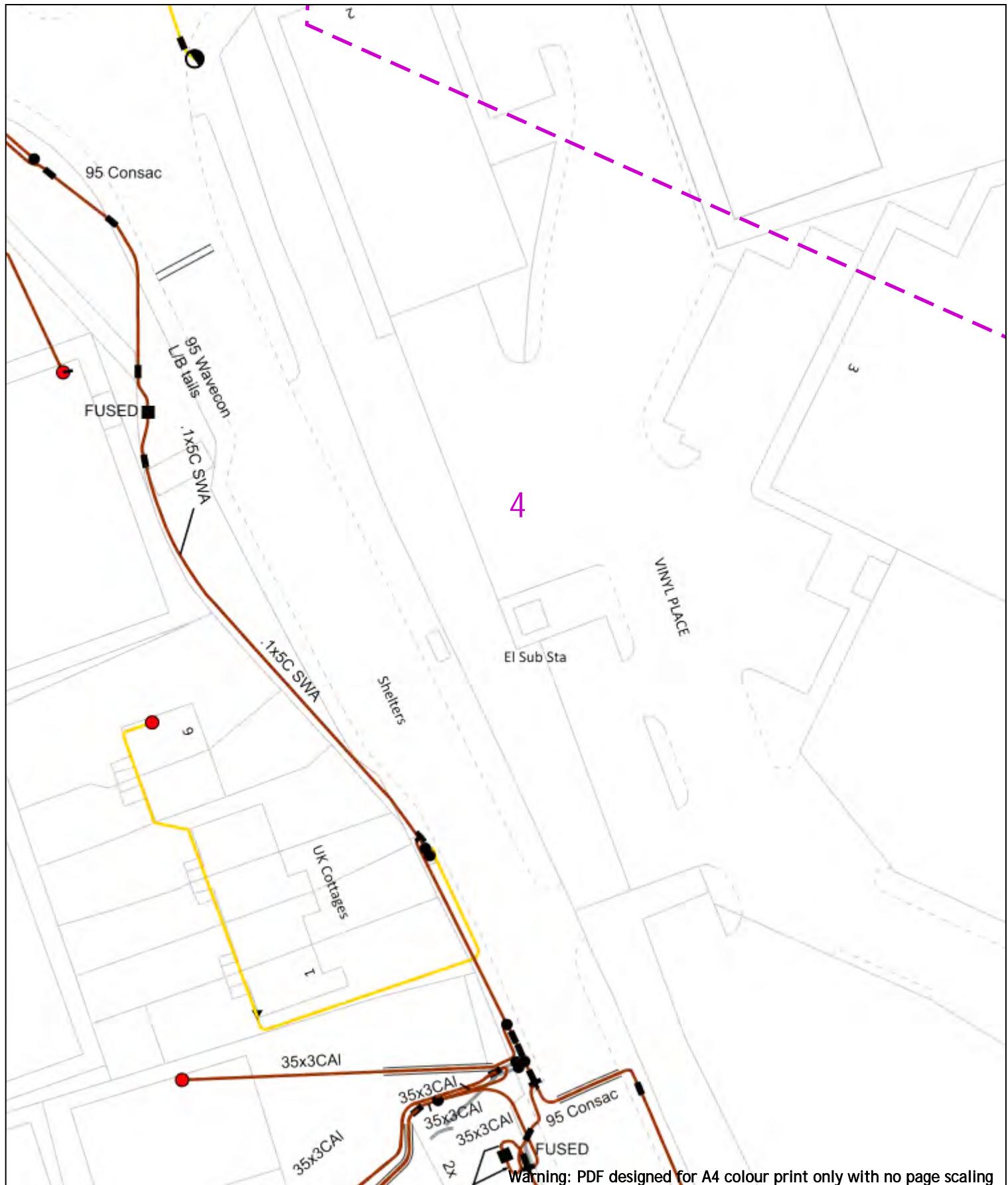
Registered Office: Inveralmond House,  
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General Enquiries: 0800 048 3516

Scale: 1:500 (When plotted at A4)

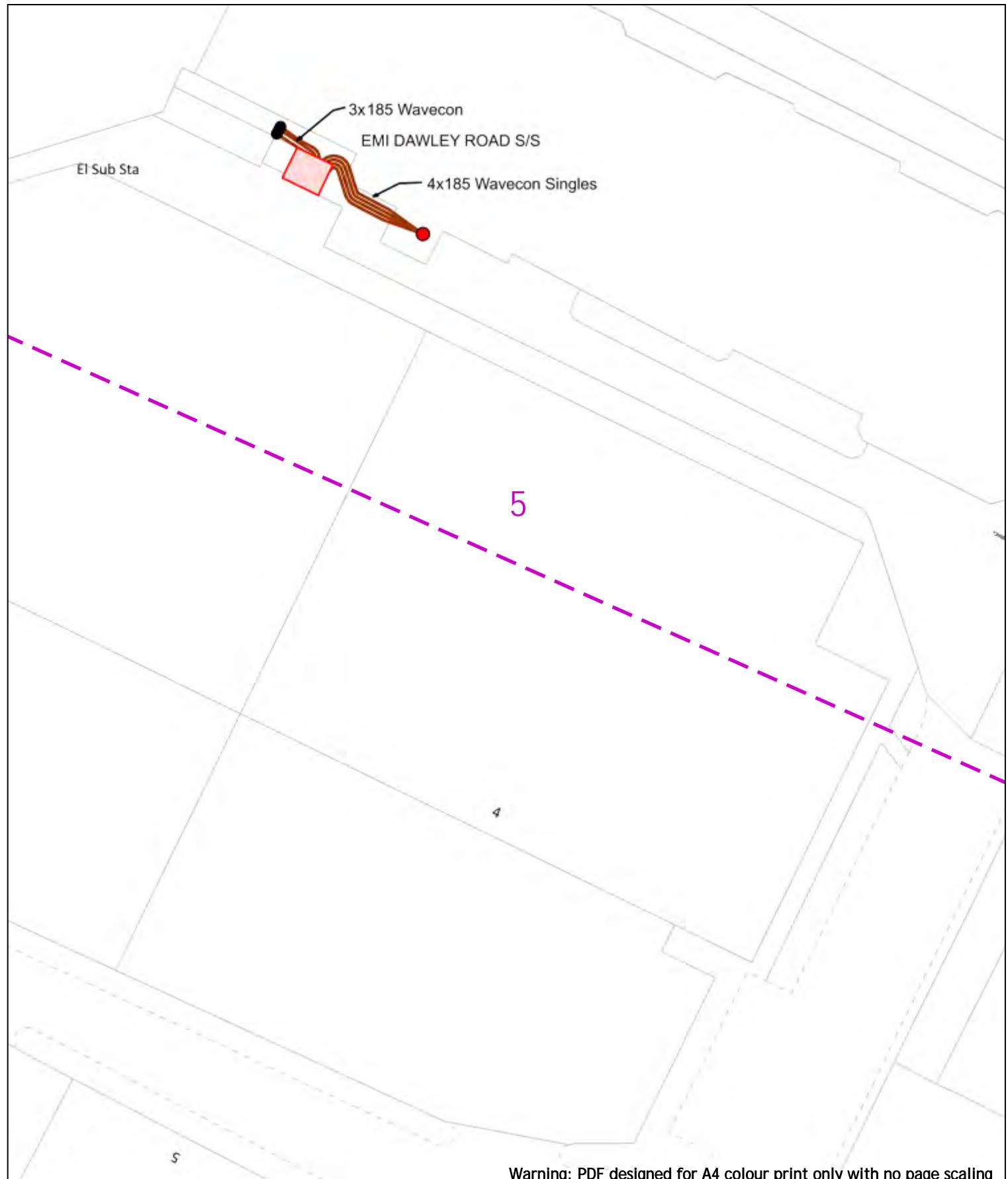
**WARNING**





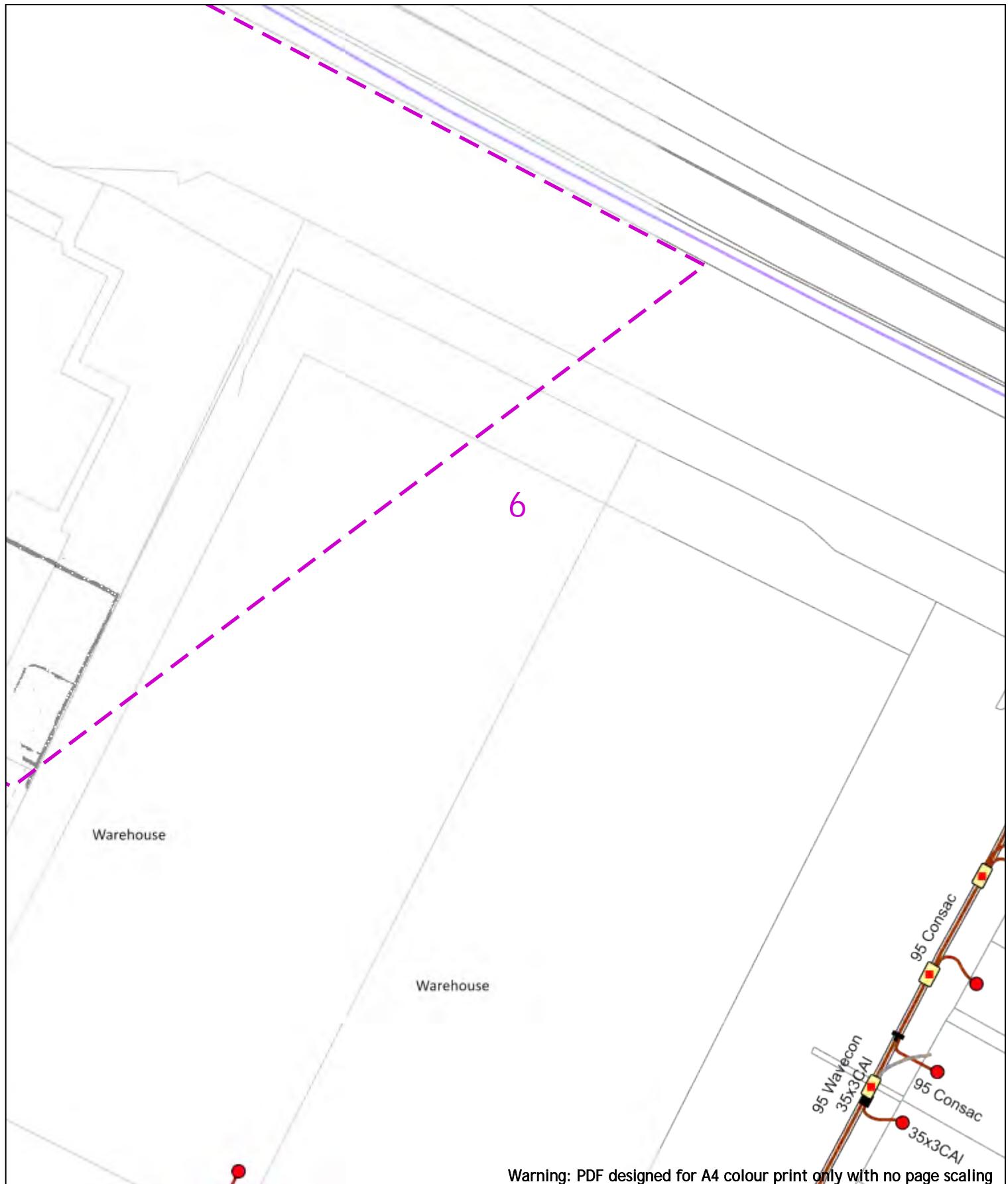
Warning: PDF designed for A4 colour print only with no page scaling

0	20m	Dig Sites	Area:	Line:	 																					
Date Requested: 23/02/2021 Job Reference: 21267938 Site Location: 508968 180017 Requested by: Mr Joe Shawyer Your Scheme/Reference: 27840  Scale: 1:500 (When plotted at A4)			Voltages (V) LV (Low Voltage) and Services: Up to 1,000V HV (High Voltage): Over 1,000V to 11,000V EHV (Extra High Voltage): 22,000V to 132,000V Transmission: 275,000V and 400,000V  NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID <table border="1"> <tr> <td>Footpath/Unmade</td> <td>Services</td> <td>LV</td> <td>HV</td> <td>EHV</td> </tr> <tr> <td>0.45m</td> <td></td> <td>0.45m</td> <td>0.6m</td> <td>0.8m</td> </tr> <tr> <td>Road Crossing</td> <td></td> <td>0.6m</td> <td>0.6m</td> <td>0.75m</td> </tr> <tr> <td>Agricultural</td> <td></td> <td>1m</td> <td>1m</td> <td>1m</td> </tr> </table> Legend  Distribution Structures (Electric)		Footpath/Unmade	Services	LV	HV	EHV	0.45m		0.45m	0.6m	0.8m	Road Crossing		0.6m	0.6m	0.75m	Agricultural		1m	1m	1m	  Scottish and Southern Energy Power Distribution Ltd. Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ Registered in Scotland No. SC213459	
Footpath/Unmade	Services	LV	HV	EHV																						
0.45m		0.45m	0.6m	0.8m																						
Road Crossing		0.6m	0.6m	0.75m																						
Agricultural		1m	1m	1m																						
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						Subject to revision – Master held by SSEN Asset Data Team: Asset.Data@sse.com 01256 337 294																				



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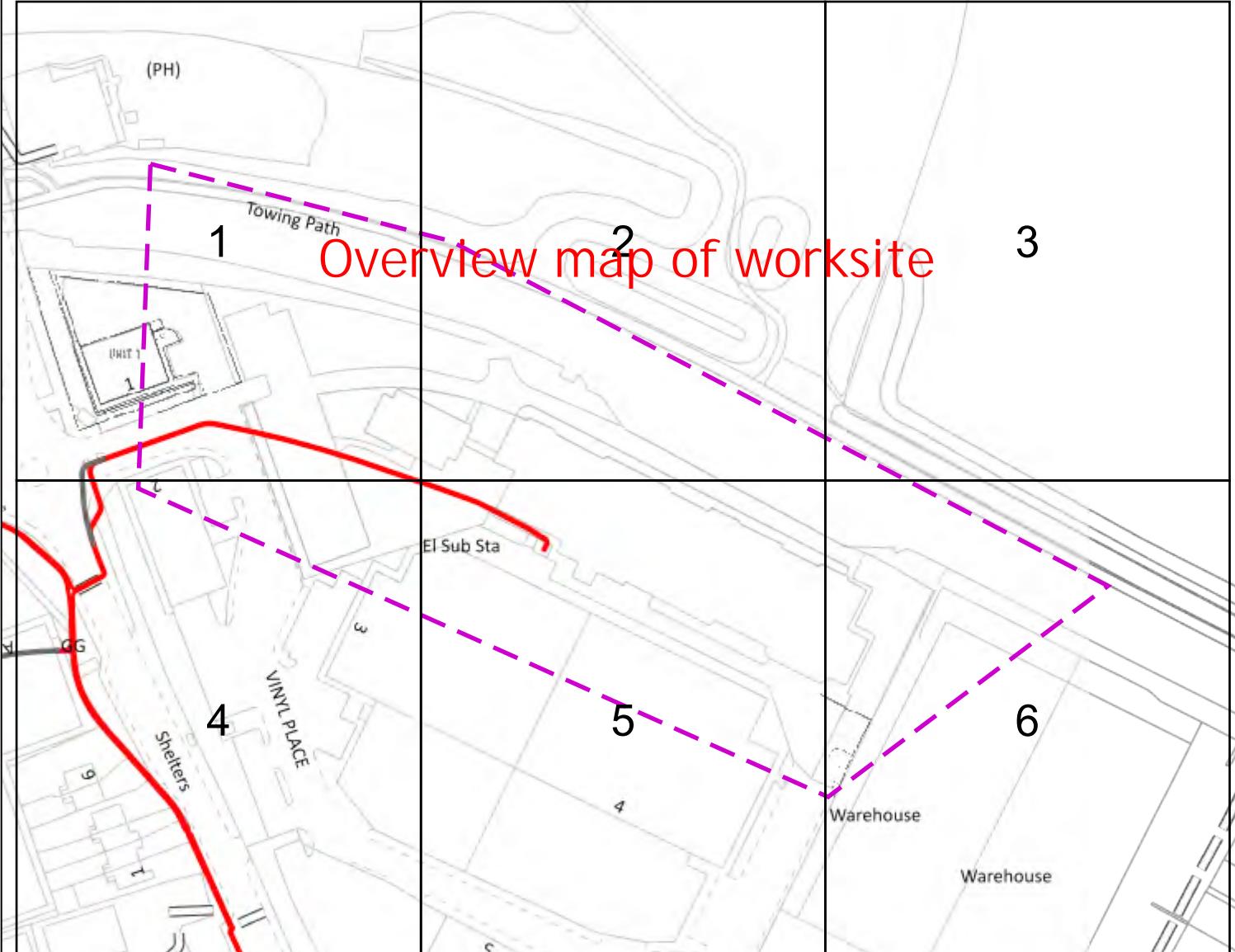
0	20m	Dig Sites	Area: 	Line: 	 <b>Scottish &amp; Southern Electricity Networks</b>
Date Requested: 23/02/2021	Job Reference: 21267938	Site Location: 508968 180017	Requested by: Mr Joe Shawyer	Your Scheme/Reference: 27840	
<b>Voltages (V)</b> LV (Low Voltage) and Services Up to 1,000V HV (High Voltage) Over 1,000V to 11,000V EHV (Extra High Voltage) 22,000V to 132,000V Transmission 275,000V and 400,000V <b>NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID</b> Footpath/Unmade Services LV HV EHV 0.45m 0.45m 0.6m 0.8m Road Crossing 0.6m 0.6m 0.75m 0.9m Agricultural 1m 1m 1m 1.1m		<b>Legend</b>  Service Cables  2-3.3kV  6.6kV  11kV  22kV  33kV  50kV  110kV  275kV  400kV  Fibre Optic  Elec Cable	<b>Distribution Structures (Electric)</b>  Pole Existing Location  Pole Structure, Existing Location - Single  Pole Structure, Existing Location - H  Duct Route  Cross Section Route		
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# Overview map of worksite



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Dig Sites

Area:

Line:

Date Requested: 23/02/2021  
 Job Reference: 21267938  
 Site Location: 508968 180017  
 Requested by: Mr Joe Shawyer  
 Your Scheme/Reference: 27840

Voltages (V)			
LV (Low Voltage) and Services	Up to 1,000V		
HV (High Voltage)	Over 1,000V to 11,000V		
EHV (Extra High Voltage)	22,000V to 132,000V		
Transmission	275,000V and 400,000V		
NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID			
Footpath/Unmade	0.45m	0.45m	0.6m
Road Crossing	0.6m	0.6m	0.75m
Agricultural	1m	1m	1.1m



#### Distribution Structures (Electric)

Pole Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route



Scottish & Southern Electricity Networks

#### Scottish and Southern Energy Power Distribution Ltd.

Registered Office: Inveralmond House,  
 200 Dunkeld Road, Perth, PH1 3AQ  
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 WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)

The Woolpack

(PH)

1

Towing Path

UNIT 1

1

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

0

20m

Dig Sites

Area:

Line: -----

Date Requested: 23/02/2021

Job Reference: 21267938

Site Location: 508968 180017

Requested by: Mr Joe Shawyer

Your Scheme/Reference: 27840

Scale: 1:500 (When plotted at A4)

**Voltages (V)**

LV (Low Voltage) and Services Up to 1,000V

HV (High Voltage) Over 1,000V to 11,000V

EHV (Extra High Voltage) 22,000V to 132,000V

Transmission 275,000V and 400,000V

**NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID**

Footpath/Unmade Services LV HV EHV

Road Crossing 0.45m 0.45m 0.6m 0.8m

Agricultural 1m 1m 0.75m 0.9m

1.1m



**Distribution Structures (Electric)**

Pole Existing Location

Pole Structure, Existing Location - Single

Pole Structure, Existing Location - H

Duct Route

Cross Section Route



**Scottish & Southern Electricity Networks**

**Scottish and Southern Energy Power Distribution Ltd.**

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200 Dunkeld Road, Perth, PH1 3AQ

Registered in Scotland No. SC213459

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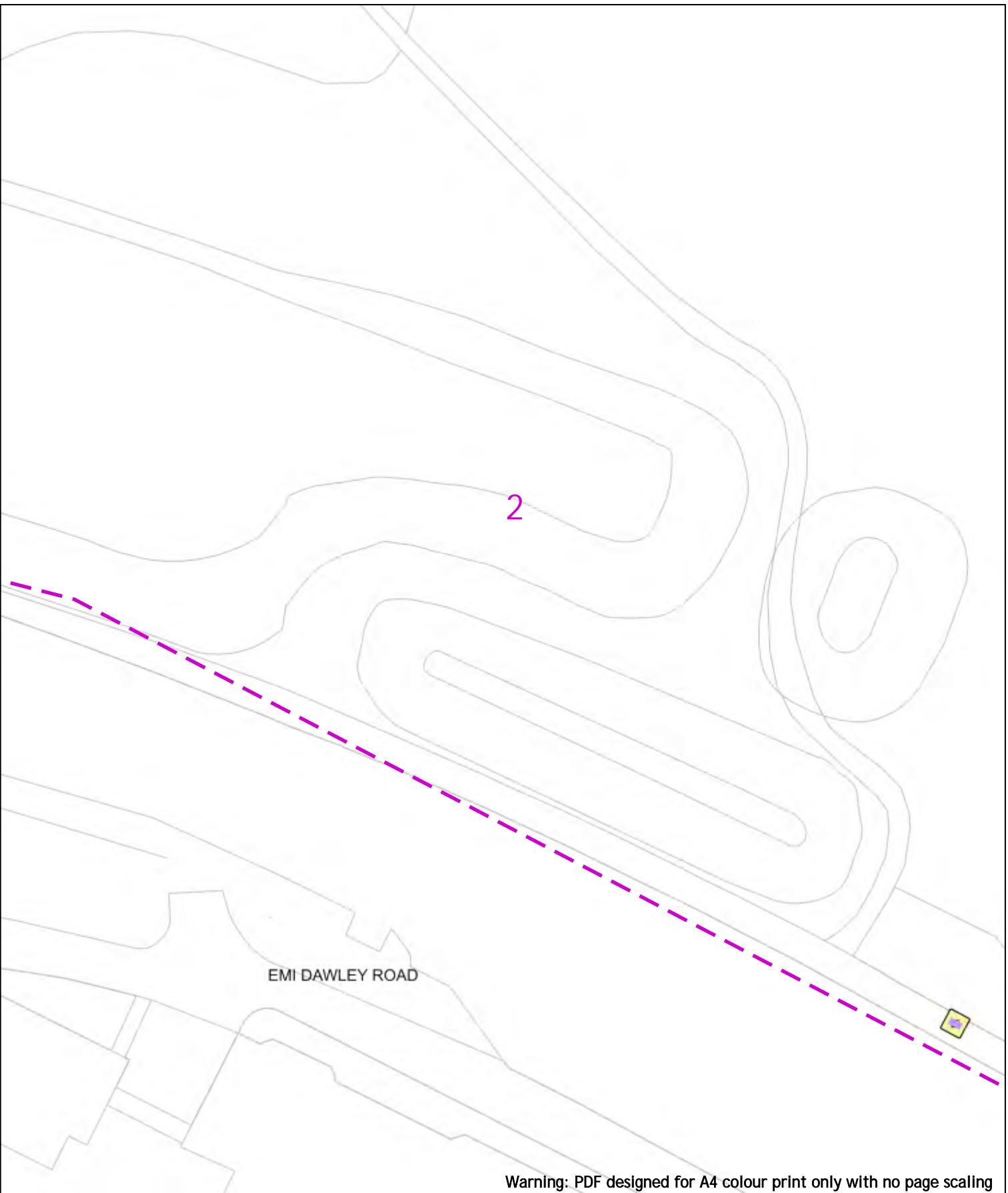
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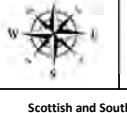
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WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTES G56 SHOULD BE CONSULTED (AVAILABLE FROM THE HSE WEBSITE)



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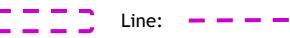
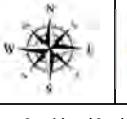
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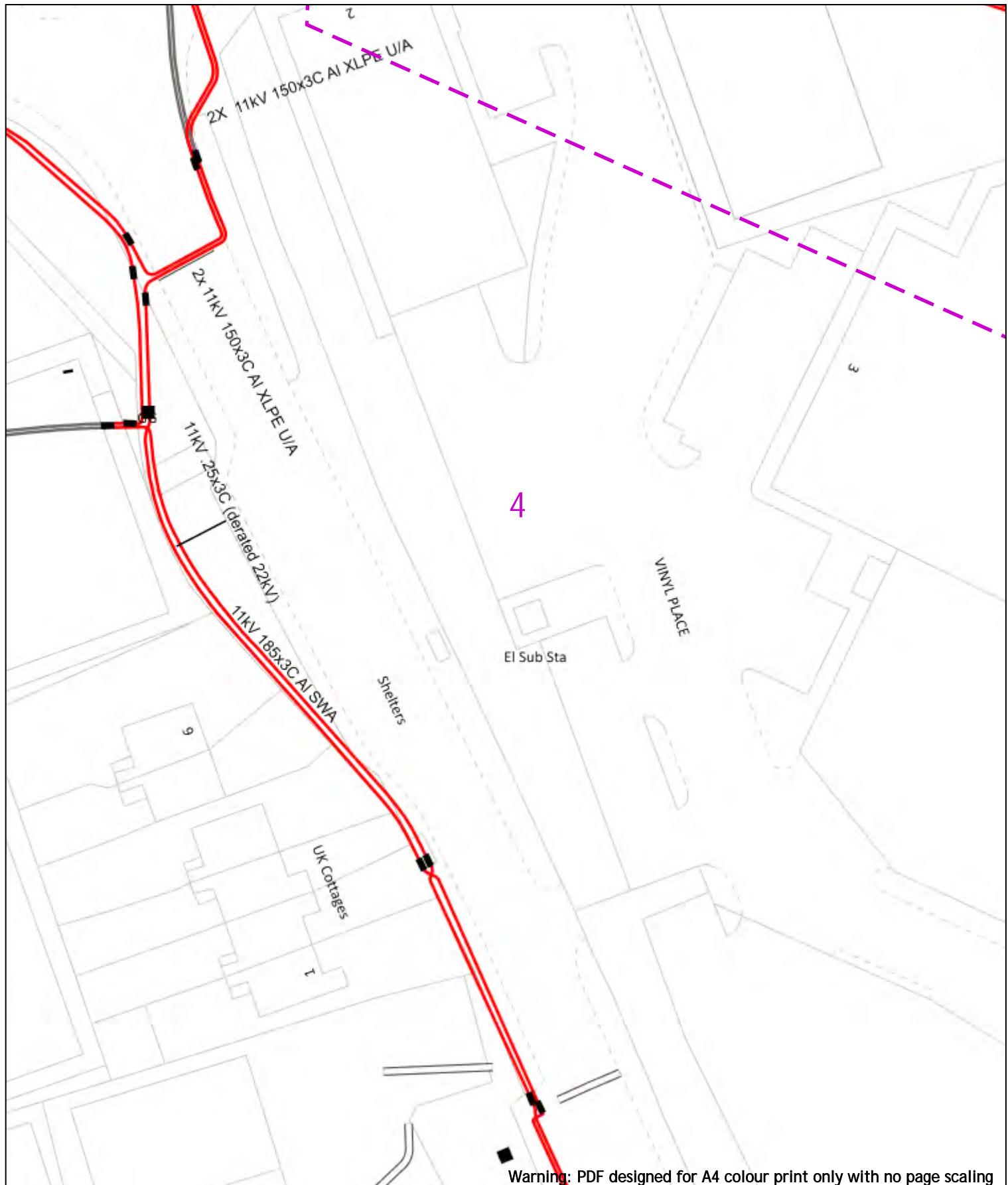
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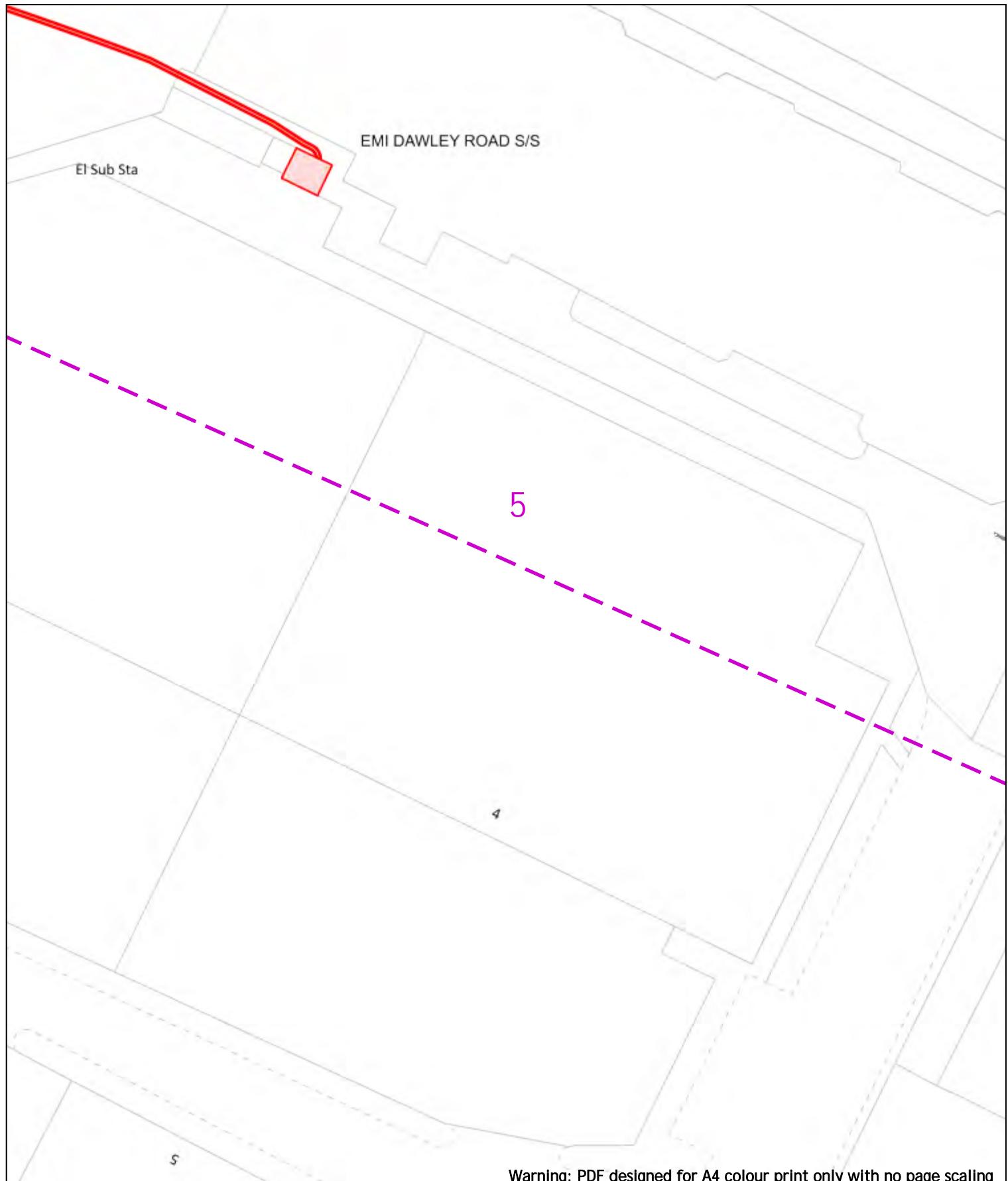
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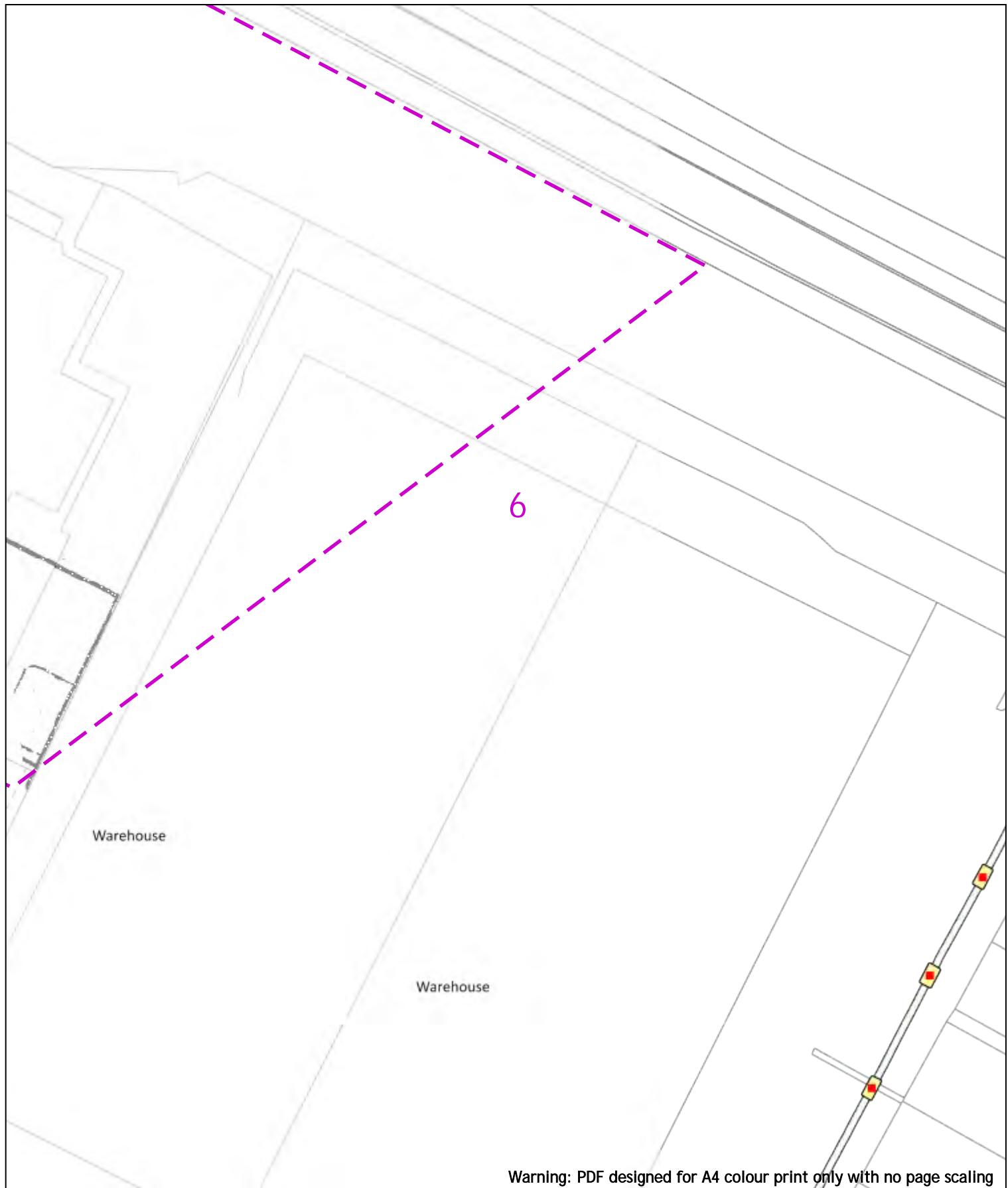


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## GUIDE TO INTERPRETING MAINS RECORDS PLAN



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## INTRODUCTION

The Health & Safety Executive have produced a document entitled 'Avoiding danger from underground services'. Copies are available from HMSO's accredited agents and good booksellers, Ref HS(G)47, ISBN 0118854925.

### **WHEN WORKING IN THE VICINITY OF ELECTRICITY CABLES AND OVERHEAD LINES PLEASE FOLLOW THE DO'S & DON'T'S LISTED BELOW.**

#### DO'S

- Do** Make sure that you have plans of the cables in the area before any excavation work starts. Remember that some cables such as service cables may not be shown on the plans. Cables owned by other companies are not shown, e.g. local authorities, Department of the Environment, National Grid Co. etc.
- Do** Make sure that you understand the plans that have been supplied to you. For detailed explanation of the symbols used by Scottish & Southern Electricity Networks refer to this guide & the key shown on the plan
- Do** Use a cable avoidance tool (CAT) to determine the position of the existing cables in the work area. The positions should be clearly marked, and further tests made as work proceeds. **If in doubt, get advice from your supervisor.**
- Do** Hand dig trial holes over the indicated route of the cable, excavate alongside.
- Do** Ask for a cable to be made dead if it is buried in concrete. Please note that this is likely to be a costly process.
- Do** Watch for signs of cables as work progresses, such as marker tapes or cable covers which may be exposed.
- Do** Backfill carefully using stone free soil around cables, replacing marker tapes and covers.

- Do** Ensure that there is maximum clearance above all cable & joints.
- Do** Notify Scottish & Southern Electricity Networks immediately should accidental damage to cables occur however large or small. Arrange to keep people well clear of the cable that has been damaged. Do not backfill an area where cable damage has occurred.

## **DON'T'S**

- Don't** Operate a bulldozer, scraper, dragline or excavator unless you are satisfied that there are no buried cables or overhead lines in the working area.
- Don't** Use picks, forks or pointed instruments in soft clay or soil where cables are present, exercise extreme caution where such instruments are used to free lumps of stone or to break up firmly compacted ground.
- Don't** Use exposed cables as a convenient step or handhold.
- Don't** Handle or attempt to alter the position of any cable.

**REMEMBER THAT A DAMAGED CABLE MAY CAUSE EXTENSIVE LOSS OF SUPPLIES, MAKE EXPENSIVE REPAIRS NECESSARY AND CAUSE SERIOUS OR EVEN FATAL INJURY.**

**IF IN DOUBT ASK SCOTTISH & SOUTHERN ELECTRICITY NETWORKS**

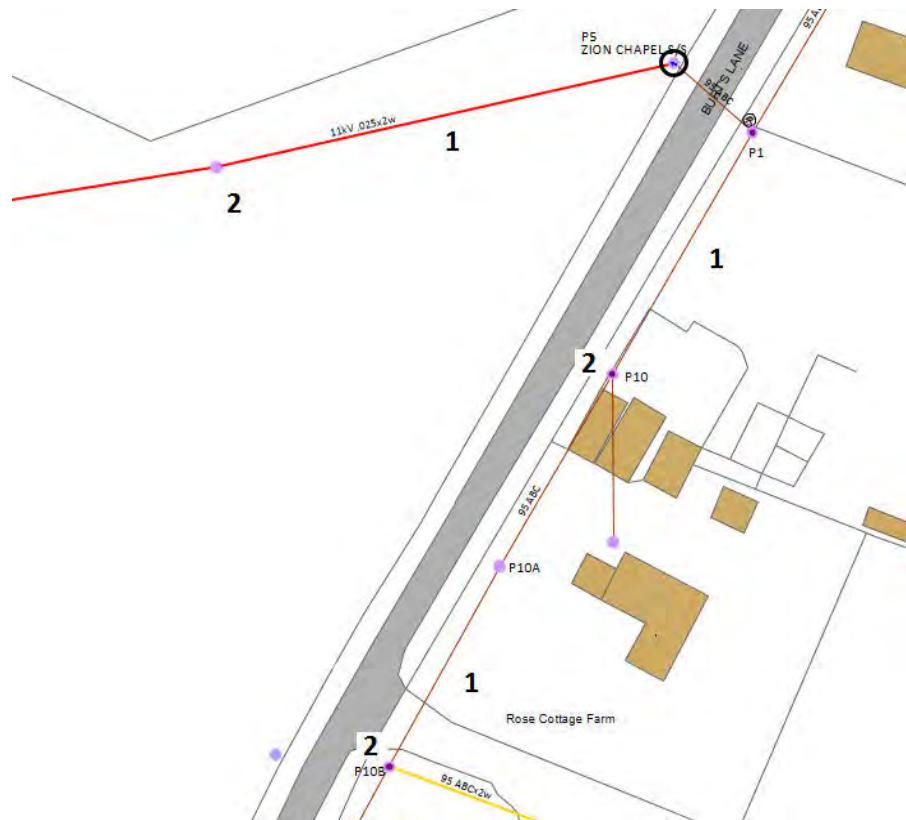
## **UNDERSTANDING THE INFORMATION ON THE PLANS.**

AVERAGE DEPTH OF CABLES:      Footpaths 0.6 metres  
    Road Crossings 0.75metres

NB These depths are only approximate, depths may vary. It should also be noted that surface levels can change subsequent to the cables being laid.

### **Mains records symbols definitions and examples:**

#### **A ) Overhead lines & Poles – These are depicted as follows:**



1. Overhead Line – These can be either High Voltage or Low Voltage, colour denotes voltage.
2. Poles.
3. Pole Mounted Transformer.

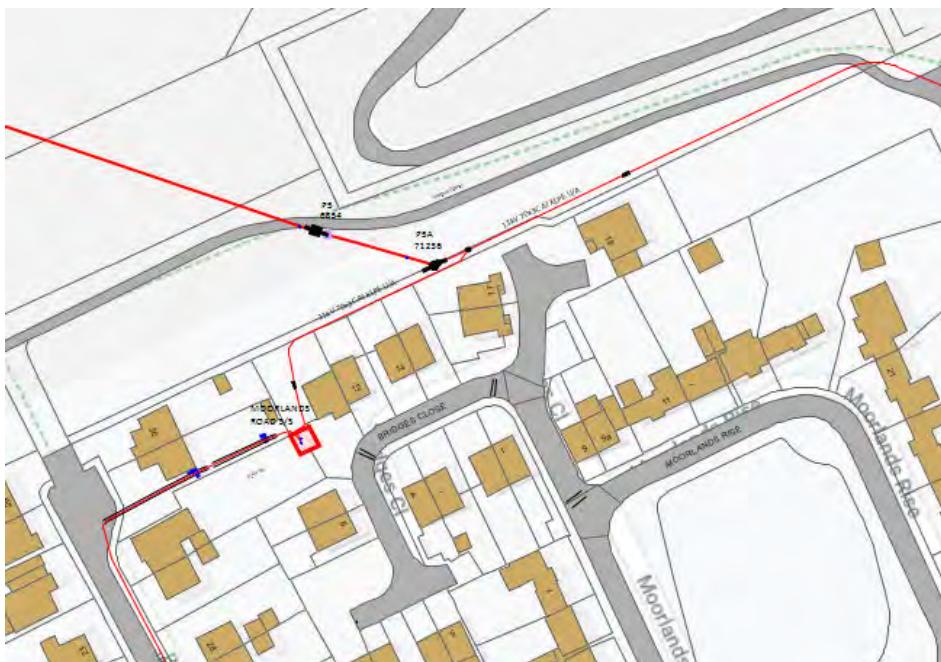
**B) Typical example of Low Voltage cable records:**



1. Sub Station
2. Low Voltage Underground cable.
3. Link Boxes: This is a box with a manhole cover marked as belonging to Scottish & Southern Energy containing links. Either two or four cables will lead away from a link box.
4. Straight Joint: This is where two separate cables are joined together.
5. Breech Joint: This is where another cable is attached to the main.
6. Pot End: This is the end of the cable. In certain circumstances service cables to properties can be taken from the pot end. These services may not be shown on the plans.
7. Road crossing duct where a cable is routed under a path or road.
8. Cable terminations/Pole Box: Where underground cables are connected to overhead lines
9. Overhead line.
10. Street Lamps.

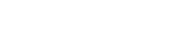
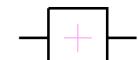
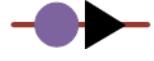
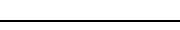
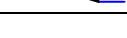
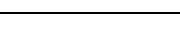
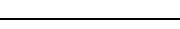
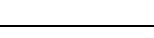
11. Services to properties: The service cable to an individual property are not always shown on the mains records that Scottish & Southern Electricity Networks supply. In some cases, a service can be looped from an adjacent property.

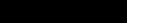
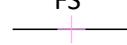
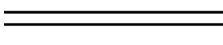
**C) Typical example of High Voltage cable record.**



1. Sub Station
2. High Voltage Underground cable – Colour denotes voltage.
3. Straight Joint: This is where two separate cables are joined together.
4. Breech Joint: This is where another cable is attached to the main.
5. Cable terminations/Pole Box: Where underground cables are connected to overhead lines
6. Overhead Switch.

## GIS ELECTRIC SYMBOLS

Service cable		Single Poles	
LV Mains		H Poles	
LV Mains and Services (Split Phase)		3 Poles	
2-3.3kV		Tower	
6.6kV		Pole Mounted Transformer	
11kV		Circuit Breaker	
22kV		Switch Disconnector/ OH Air Break	
33kV		Pole Box	
66kV		Straight Joint	
132kV		Mains Breech Joint (Tee)	
275kV		Service Breech Joint	
320 kV		Trifurcating Joint	
400kV		Pot End	
Fibre Optic		Capped End	
Pilot Cable		Sealing End	

Assumed Route		Surge Diverters	
Out of Service		Pillar	
Service Connector Joint		Substation	
Overhead Connector		Non Electrical Item	
Wall Box Joint		Street Furniture	
Flying Stay		LV Link Box	
Stay		LV Supply Point	
PME Earth		Oil Pipeline	
Neutral Earth		Gas Pipeline	
Ducting		Areas of Outstanding Natural Beauty	
Pit		National Park	
Embedded Network		Borehole	
Other Network		ASLs	
Water Extraction Point		Sensitive Waterway	

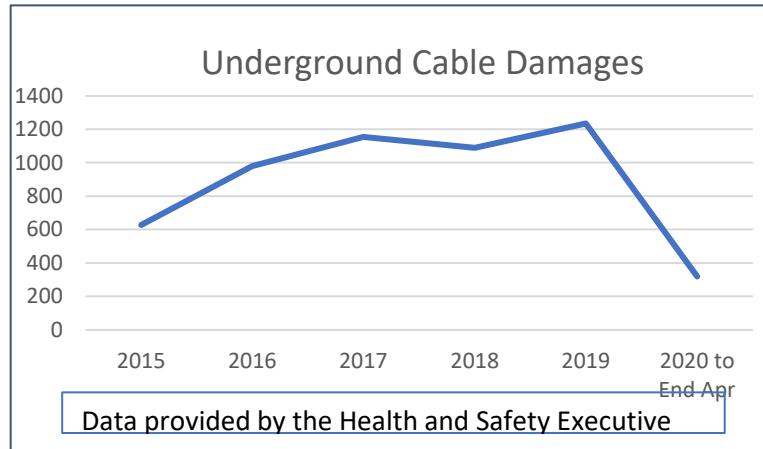
Source Protection Zone		Site of Special Scientific Interest (SSSI)	
Vulnerability Zone		National Nature Reserve (NNR)	
Access		RAMSAR Special Area of Conservation (SAC)	
Ownership		Special Protection Area (SPA)	
Monuments		Ancient Woodland	
Flood Area		Restricted Access	

## 'Watch Out, Cables About!'

During the COVID-19 pandemic, construction work and projects across the UK have experienced a period of downtime, affecting the amount of excavation work undertaken. As a result, energy network companies have experienced a welcome reduction in third-party damages to their buried apparatus. In reality, this reduction in damage to underground cables, gas pipelines and other utility equipment, means a reduction in the risk of harm to those involved in the damage.

As lockdown restrictions begin to ease across the UK and work levels increase, it's essential that excavation teams remember the basic safety precautions necessary to ensure they stay safe.

When you are carrying out any excavations or work that involves breaking ground, **be aware of what is buried in the ground before you start. Work out how you are going to locate utility equipment and avoid the risk of damaging it.**



Follow the advice in Health and Safety Executive (HSE) [Guidance HSG47 'Avoiding danger from underground services'](#) and ENA's ['Watch Out, Cables About'](#) Safety advice leaflet. Complete your risk assessment before starting work and share the details of this with everyone involved in the work. Further guidance and advice is available via the Utility Strike Avoidance web site: <https://www.utilitystrikeavoidancegroup.org>

- Be aware of the location of underground utility equipment before digging or excavating.
- Request location details and plans from Utility Companies well in advance of work starting. Remember that these are a guide only – you are responsible for confirming the exact location of all equipment and avoiding damage.
- Use a cable avoidance tool to identify the presence of buried cables before you start to dig. Rescan the area as your work progresses. Hand Dig — use safe digging techniques to dig trial holes to establish the line and depth of underground utility equipment.
- Always assume underground cables are Live. If they appear to be damaged do not approach them and contact the Network Operator using 105 for GB (or 03457 643 643 in Northern Ireland). Take care when lowering the ground levels as there may be underground cables in the area.
- If you damage an underground cable, vacate the excavation immediately, phone your electricity network operator's emergency number and keep everybody clear.

In an emergency dial **999** and tell them electricity is involved. Call 105 for GB (or 03457 643 643 in Northern Ireland) if you have a safety concern related to the electricity network or if you spot damage to overhead power lines, underground cables and substations that could put you, or someone else, in danger. If you are in any doubt about whether an underground cable or other piece of equipment is safe, always assume it is live, keep away from it and contact your local electricity network operator.

**Plan your work safely and help us to keep Britain's energy flowing.**

To find the local electricity network operator, search 'electricity distribution map' on the ENA website at [www.energynetworks.org](http://www.energynetworks.org).

## Watch it!

### Safety advice brought to you by Scottish and Southern Electricity Networks

These notes are intended to help all those who have to work in the vicinity of electrical apparatus. Employers have a legal obligation to ensure that their operatives are fully instructed in the correct procedures.

The Electricity at Work Regulations 1989 impose health and safety requirements upon employers, employees and self-employed persons with respect to electricity at work. The regulations impose restrictions on persons being engaged in work activities on or near live conductors.

Regulation 14 requires that: "No person shall be engaged in any work activity on or near any live conductor (other than one suitably covered with insulating material so as to prevent danger) that danger may arise unless:

- ◆ it is unreasonable in all circumstances for it to be dead; and
- ◆ it is reasonable in all circumstances for him to be at work on or near it while it is live; and
- ◆ suitable precautions (including where necessary the provision of suitable protective equipment) are taken to prevent injury."

The purpose of the regulations is to require precautions to be taken against the risk of death or personal injury from electricity in work activities.

### Publications

The Health and Safety Executive have produced a document entitled 'Avoiding Danger from Underground Services', and the Appendix 1 deals specifically with electric cables. Copies are available from the HSE's Accredited Agents and good booksellers, Ref. HS (G) 47.

Copies of Health and Safety Guidance note GS 6 relating to safe working in proximity to overhead lines, are available from the Health and Safety Executive's website - [www.hse.gov.uk](http://www.hse.gov.uk).

### Note

In situations of emergency or danger, or where the advice contained in these notes cannot be followed, you must consult Scottish and Southern Electricity Networks immediately. Tel. 0800 0727282 for southern England or 0800 300999 for Scotland.

Additional copies of these "Watch it!" leaflets can be obtained from our Asset Data Team office upon request. Tel. 01256 337294, or Fax 01256 337295.

You must read and accept the following safety notes as part of the contract to receive our network plans. You will have the option to print these and issue them to site staff.

### Watch it! - Working in the vicinity of underground cables

Our plans show the positions and normal depths for the buried cables and pipes at the time when they were installed. However, alterations to road alignments surface levels and buildings may have occurred subsequently without our knowledge. If you discover plant or cables that are not marked or incorrectly marked, then you are required to contact us as soon as possible to give us the opportunity to amend our plans.

These plans show the equipment owned by Scottish and Southern Electricity Networks. There may be other privately owned plant in the area, which is outside of our control. You should always check with the Local Authority, National Grid Company, Department of the Environment, other Electricity Companies and other utilities before proceeding.

It is not intended that the issue of these plans will absolve either party from their obligation under any of the acts that control digging in the public highways.

### Supplies To Properties, etc.

The location of cables supplying individual properties, street lighting, traffic signs, telephone kiosks etc. are not always shown on the plans. You should assume that each property, streetlight etc. will have its own supply cable.

### Major Circuits

Where our plans indicate the presence of cables with a voltage exceeding 11,000 volts, you are advised to contact our local depot (telephone number is on the plans), before commencing any excavations within the vicinity of these cables. These major circuits form an extremely important link in Scottish and Southern Electricity Networks' networks, and damaging or modifying these circuits is a major and costly undertaking. Any development should therefore be designed to allow these circuits to remain undisturbed and accessible in their present location.

For your own and your workmates' safety, please follow the do's and don'ts listed below:

- Ü do make sure you have plans of the underground cables in the area before any excavation work starts. Remember that some cables may not be shown on plans. If carrying out emergency work, excavate as though there are buried live cables in the vicinity.
- Ü do use a cable locator to determine the position of existing cables in the work area. The positions should be marked and tests made as work proceeds. If in doubt, get advice from your supervisor.
- Ü do ask for a cable to be made dead if it is buried in concrete.

- Ü do backfill carefully, using stone-free soil around the cables, replacing marker-tapes and / or covers.
- Ü do notify us immediately if you accidentally damage our cables. Arrange to keep people well clear of a cable that has been damaged until we have confirmed it has been made safe.
- Ü do make sure before starting to demolish a building that all cables have been disconnected. We welcome prior notice of the intention to demolish buildings. This enables us to ensure that the site has been made safe electrically.
- Ü don't operate a bulldozer, scraper, dragline or excavator; unless you are satisfied that there are no buried cables in the working area.
- Ü don't use picks, pins, forks or pointed instruments in soft clay or soil when cables are present. Exercise extreme caution where such instruments are used to free lumps of stone, or break up firmly compacted ground. Never throw a fork or sharp instrument into the ground.
- Ü don't dig trial holes over the indicated route of the cable. Excavate alongside instead.
- Ü don't use exposed cables as a convenient step or handhold.
- Ü don't handle or attempt to alter the position of any cable.

Remember that a damaged cable may cause extensive loss of supplies, make expensive repairs necessary and cause serious or even fatal injury.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make cables dead without interrupting supplies to our customers. But given adequate notice, we will wherever possible, give advice regarding special precautions which may be necessary on any site where particular problems are likely to be encountered. The right is reserved to make a charge for this service.

Electricity cables can exist anywhere - under paths or roads, in gardens or driveways, on new housing or industrial development sites or even farmland.

### Watch it! - Working in the vicinity of overhead lines

For your own and your workmates' safety, please follow the do's and don'ts listed below

- Ü do carefully note the position of all overhead lines before commencing work.
- Ü do co-operate with us during planning and sitework stages.
- Ü do follow the advice given in HSE Guidance Note GS 6 when siting barriers, goal posts, bunting etc.
- Ü do keep overhead lines in view when moving scaffolding or machinery and take special care when felling or lopping trees.
- Ü do remember that the raising or slewing of a crane or excavator jib may cause danger when operating near an overhead line.

- Ü do avoid any machinery that is in contact with an overhead line until we confirm that conditions are safe.
- Ü do warn others to keep well clear.
- Ü don't drive a high vehicle below an overhead line when an alternative route is available.
- Ü don't raise the bed of a tipper lorry beneath an overhead line or drive under the line with the body of the vehicle raised.
- Ü don't steady any suspended load until you are satisfied that there is no danger from overhead lines.
- Ü don't handle or use scaffold platforms, poles, pipes or ladders unless they are at a safe distance from overhead lines.
- Ü don't transport long objects beneath overhead lines, unless they are carried in a horizontal position.
- Ü don't approach or touch any broken or fallen overhead lines.

Always remember that:

- Electricity can jump gaps.
- Contact or near contact with a crane jib, scaffold or ladder can cause a discharge of electricity with a risk of fatal or severe shock and burns to any person in the vicinity.

If effective measures are not adopted to protect our equipment, we will take steps to recover the cost of any damage caused. Persons causing damage resulting in loss of supply to customers can be held legally responsible for any claims made by those customers. Promptness in reporting an incident will minimise costs.

In most cases it is not practicable to make overhead lines dead without interrupting supplies to customers. However, provided adequate notice is given, then we will, whenever possible, give advice regarding special precautions which may be necessary on site where specific problems may be encountered. The right is reserved to make a charge for this service.

Scottish and Southern Electricity Networks is a trading name of: Scottish and Southern Energy Power Distribution Limited Registered in Scotland No. SC213459; Scottish Hydro Electric Transmission plc Registered in Scotland No. SC213461; Scottish Hydro Electric Power Distribution plc Registered in Scotland No. SC213460 (all having their Registered Offices at Inveralmond House 200 Dunkeld Road Perth PH1 3AQ); and Southern Electric Power Distribution plc Registered in England & Wales No. 04094290 having its Registered Office at No.1 Forbury Place 43 Forbury Road Reading RG1 3JH which are members of the SSE Group [www.ssen.co.uk](http://www.ssen.co.uk)

# Utility Assets Ltd

Thank you for recently contacting Utility Assets plant record department. **We will check whether we have any plant present at your site and contact you within 5 - 7 working days ONLY if we own any plant in the vicinity.**

**If we do not reply, we do not have any apparatus in the area of your works.** However, PLEASE TAKE CARE when excavating around electricity cables in the event that not all cables present may be accurately shown. We recommend you use detecting equipment to map the site before excavating and fully comply with HSG47. DO NOT assume that a cable is dead if you don't have a record of its presence. The cable must be treated as live unless PROVEN DEAD by the cable owner. In case of emergency please contact your local electricity distribution company.

This is an automated reply from our dedicated asset records email address. If you receive further correspondence from us it will be from [asset.manager@utilityassets.co.uk](mailto:asset.manager@utilityassets.co.uk) quoting a site reference number.

Asset Manager - Utility Assets Ltd



Mr Joe Shawyer  
Groundwise Searches Ltd  
Suite 8 Chichester House Suite 8 Chichester House 45 Chic  
Southend on Sea Essex  
SS1 2JU

2 Europa View  
Sheffield Business Park  
Sheffield S9 1XH

Web: fulcrum.co.uk  
Email: [enquiries@fulcrum.co.uk](mailto:enquiries@fulcrum.co.uk)

Our Reference: 21267938  
Your Reference: 27840

Dear Mr Joe Shawyer,

Thank you for your request regarding the position of our pipelines received through the LinesearchbeforeUdig service.

We can confirm that Fulcrum Pipelines Limited currently has or is planning to have gas pipes in the vicinity of your proposed works. I have enclosed a copy of our drawings and site location to help you to locate them.

If you are proposing to carry out an excavation on or near a valve, please refer to the "Appendix 1 - Safe working practices in the vicinity of metallic valves" attached.

We will do everything we can to assist you in your safe working procedures, however, it's worth bearing in mind that we are not responsible for any incidents or accidents that may occur whilst working around our pipe network.

With this in mind, we'd recommend the following practices are adhered to maintain the integrity of the pipeline:-

- Trial Holes to find our pipes.
- Hand Digging to find our pipes and their vicinity once found.
- Adequate protection of the pipe if exposed and once your work is completed i.e. sand covering

It is essential to refer to the HSE document HSG47 for information regarding trial holes and safe digging practice when working near our pipes. A copy of this document can be downloaded from the following HSE website link - <http://www.hse.gov.uk/pubns/books/hsg47.htm>

Additional costs may be incurred if our plant has to be relocated due to your proposed works.

Registered in England No: 6034362 Registered Office: 6 St Annes Street, 3rd Floor, London EC1A 2AE Incorporated in England and Wales





Please note that other gas transporters may have plant in the area which could be affected by your proposed works.

If you need any help or information simply contact Fulcrum on 03330 146 455. In case of an emergency please phone 0800 111 999.

Yours Sincerely,

**Fulcrum Pipelines Limited**

03330 146 455

FPLConnectionRequest@fulcrum.co.uk

**Disclaimer**

Plans provided by Fulcrum Pipelines Limited only primarily show those pipes owned by Fulcrum Pipelines Limited in its role as a Licensed Independent Gas Transporter ("iGT"). The plan may show future pipework, plant or other assets or existing pipework, plant or other assets which may be removed or abandoned by Fulcrum Pipelines Limited from its gas network at any time in the future. Apparatus installed within the last 90 days and other apparatus including (but not limited to) service pipes, valves, siphons and stub connections may be present in the area but may not be shown on the plan, however, their presence should be anticipated. Gas pipes owned by any other Gas Transporters, or otherwise privately owned, may also be present in this area but may not be shown. Areas of operation or facilities operated by any other Gas Transporter may be shown on the plan, however, such information is based on information provided by such Gas Transporters. Information with regard to such third party pipes, operations or facilities should be obtained from the relevant owners.

The information shown on this plan is given without warranty or representation by Fulcrum Pipelines Limited as to its completeness, accuracy or as to its up to date representation of any geography or pipework or other assets. Save for any matter for which it is not permitted by law to exclude or limit its liability, neither Fulcrum Pipelines Limited nor its affiliates, nor any agents, servants or contractors of the same, shall have any liability arising out of or in connection with the information provided in the plan (whether present or future), whether in contract, tort, misrepresentation (excluding fraudulent misrepresentation), under statute or otherwise, howsoever caused including (without limitation) by negligence. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Fulcrum Pipelines Limited is a trading name for Fulcrum Pipelines Limited. Registered in England No: 6030362. Registered Office: 6 St Annes Street, 3rd Floor, London EC1A 2AE. Incorporated in England and Wales.



## As Laid Drawing



Morland Utilities Ltd  
Unit H8  
Halesfield 19  
Telford  
TF7 4QT

Project :-  
Utility installations  
Unit 4  
Dawley Road  
Hayes  
UB3 1HH

GT Reference:-  
9105109

Grid/Map Reference:-  
509033/179861

### Valve Details

Position	Size	Type	Serial number

### Description of Work:-

CUT OFF OLD 90MM  
SERVICE AND  
ABANDON 37M OF  
90MM PIPE  
AT 0,8M COVER

Designer:- D J Morgan

Scale 1:500 @ A3

Drawn By :- M GREENFIELD

Contact Number:-

Install by :- KARL HOPE

Date Laid:- 17/04/18

Installation technique :-

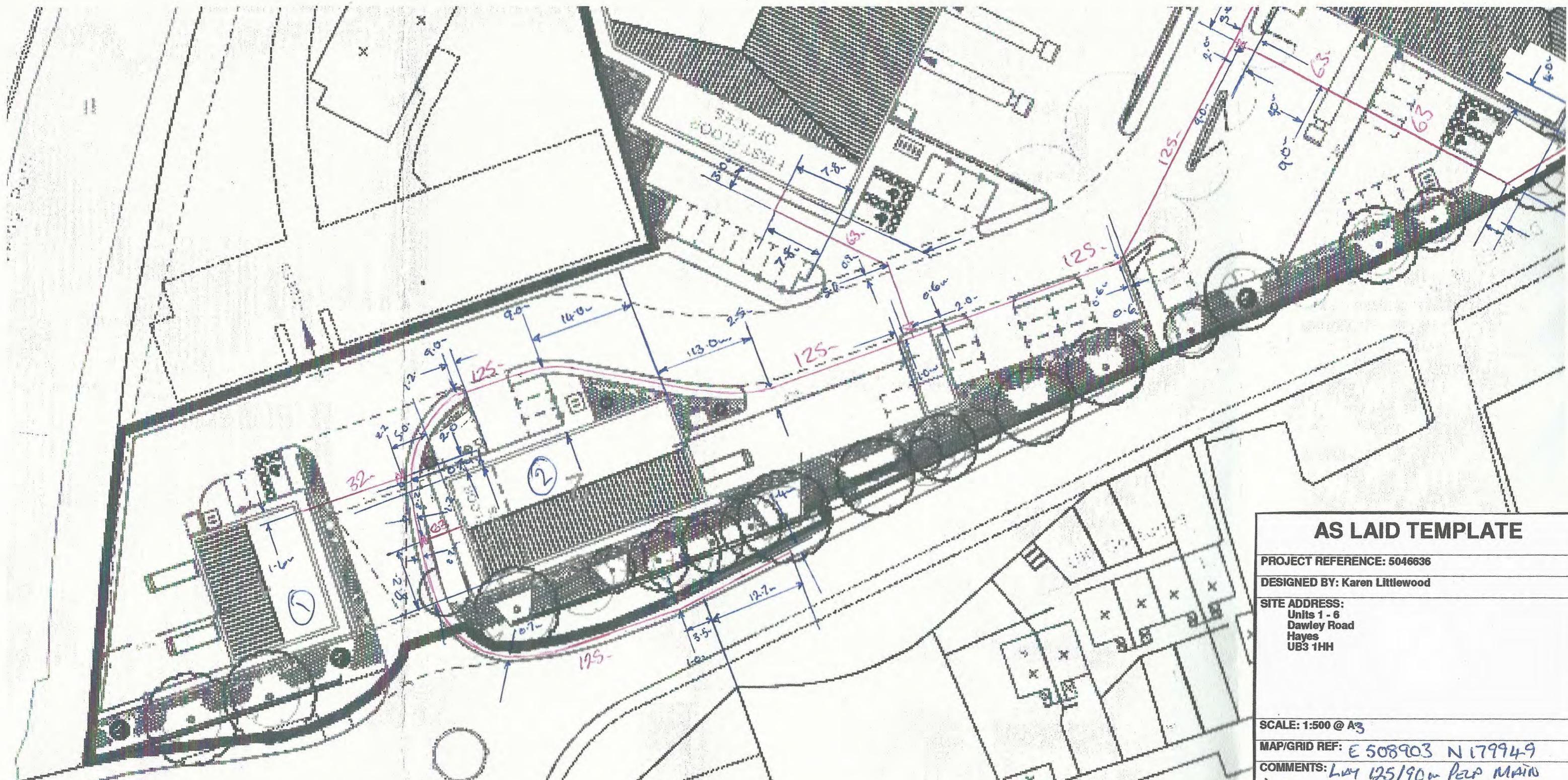
OPEN CUT

Checked By :-

Notes / Comments

Drawing 1 Of 2





### AS LAID TEMPLATE

PROJECT REFERENCE: 5046636

DESIGNED BY: Karen Littlewood

SITE ADDRESS:  
Units 1 - 6  
Dawley Road  
Hayes  
UB3 1HH

SCALE: 1:500 @ A3

MAP/GRID REF: E 508903 N 179949

COMMENTS: Lay 125/90m PE80 Main  
+ 6x 32/63/80mm PE80 Services.  
U.P.T. Connection via 18" C.I.C.P.  
Main.

DEPTH 0.75m.

DRAWN BY:

P. KITCHEN  
FCCRCM

COMPANY:

0114 280 4233

CONTACT NO:

CHECKED BY:

DATE LAID:

1-4-16

METHOD LAID:

0/C O/T

DRAWING of