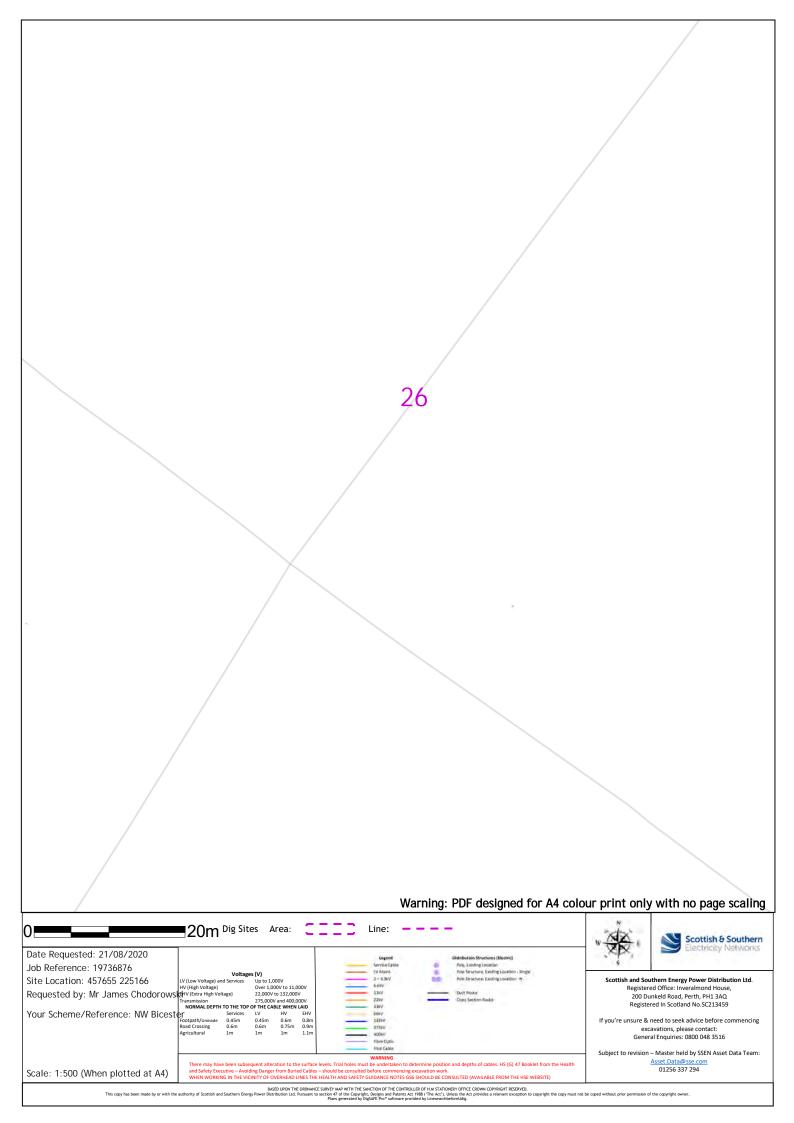


24 Warning: PDF designed for A4 colour print only with no page scaling ■20m Dig Sites Area: Scottish & Southern Date Requested: 21/08/2020 Job Reference: 19736876 SILE LOCATION: 457655 225166 LV (Low Voltage) and Services HV (High Voltage) (Vertura High Voltage) (Vertura High Voltage) (Transmission) Up to 1,000V Over 1,000V to 11,000V 22,000V to 132,000V Scottish and Southern Energy Power Distribution Ltd.
Registered Office: Inveralmond House,
200 Dunkeld Road, Perth, PH1 3AQ
Registered In Scotland No.SC213459 Your Scheme/Reference: NW Bicester Footpath/ul Road Cross 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 01256 337 294 Scale: 1:500 (When plotted at A4)

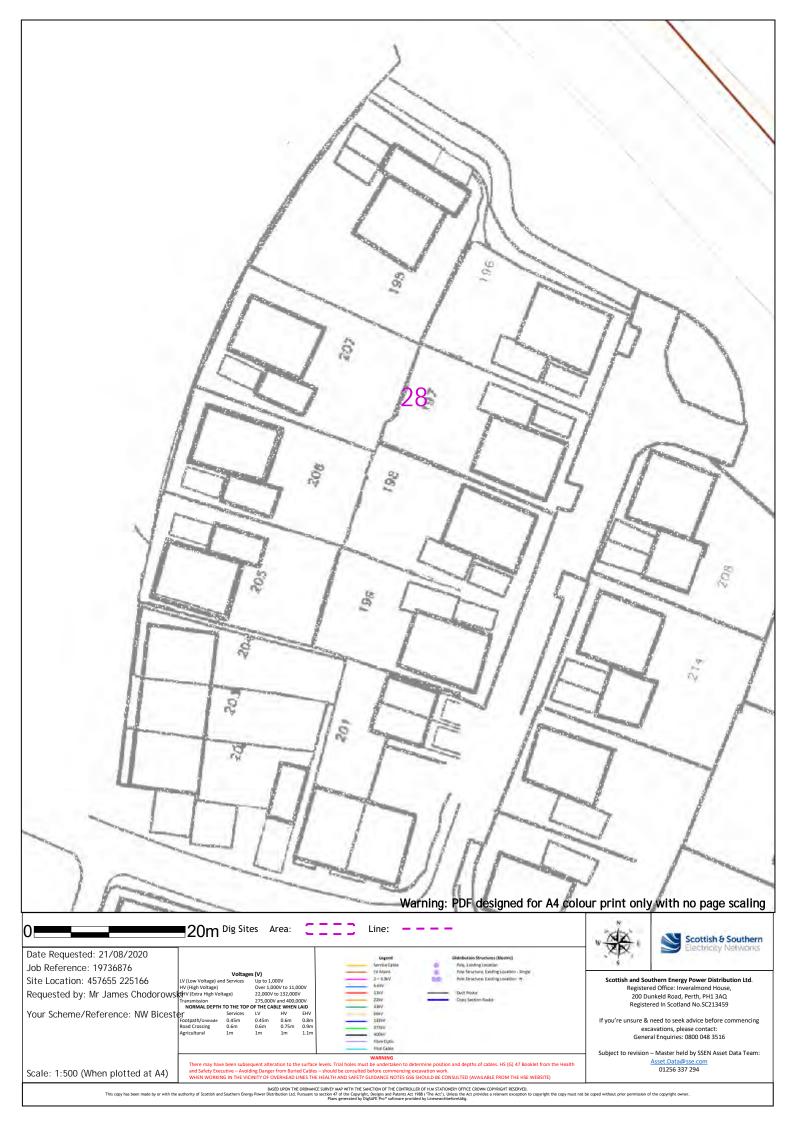
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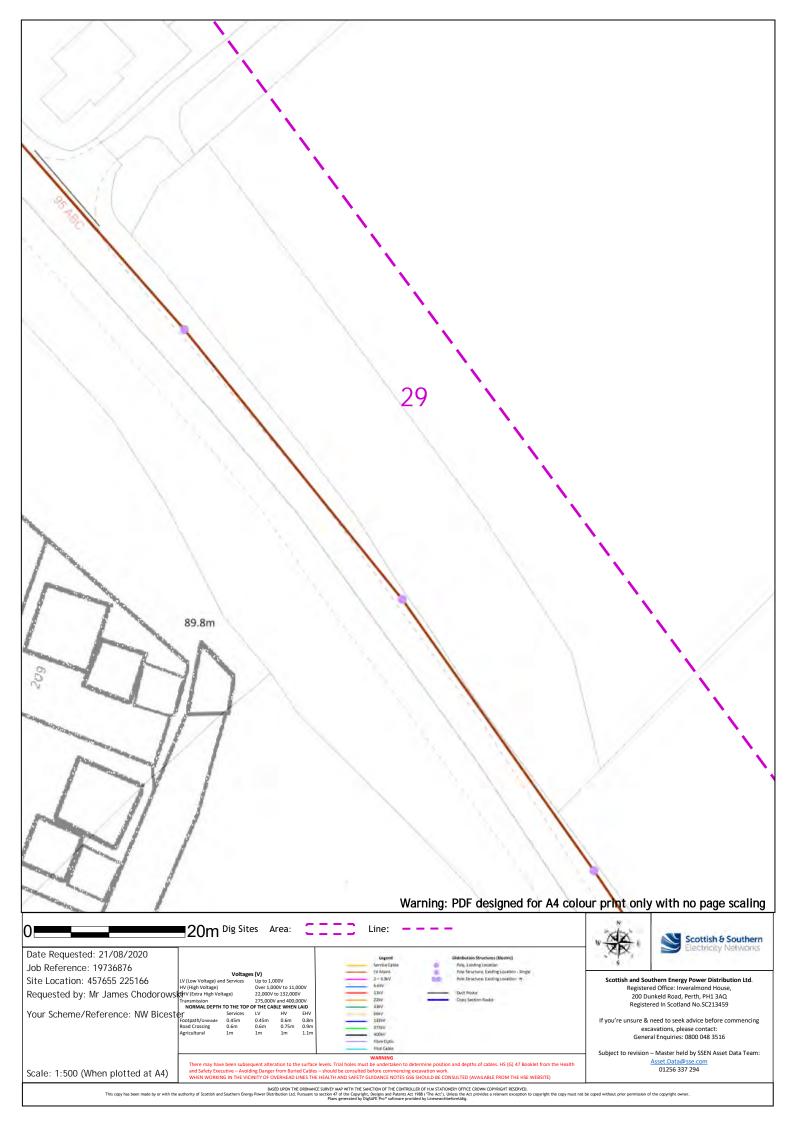


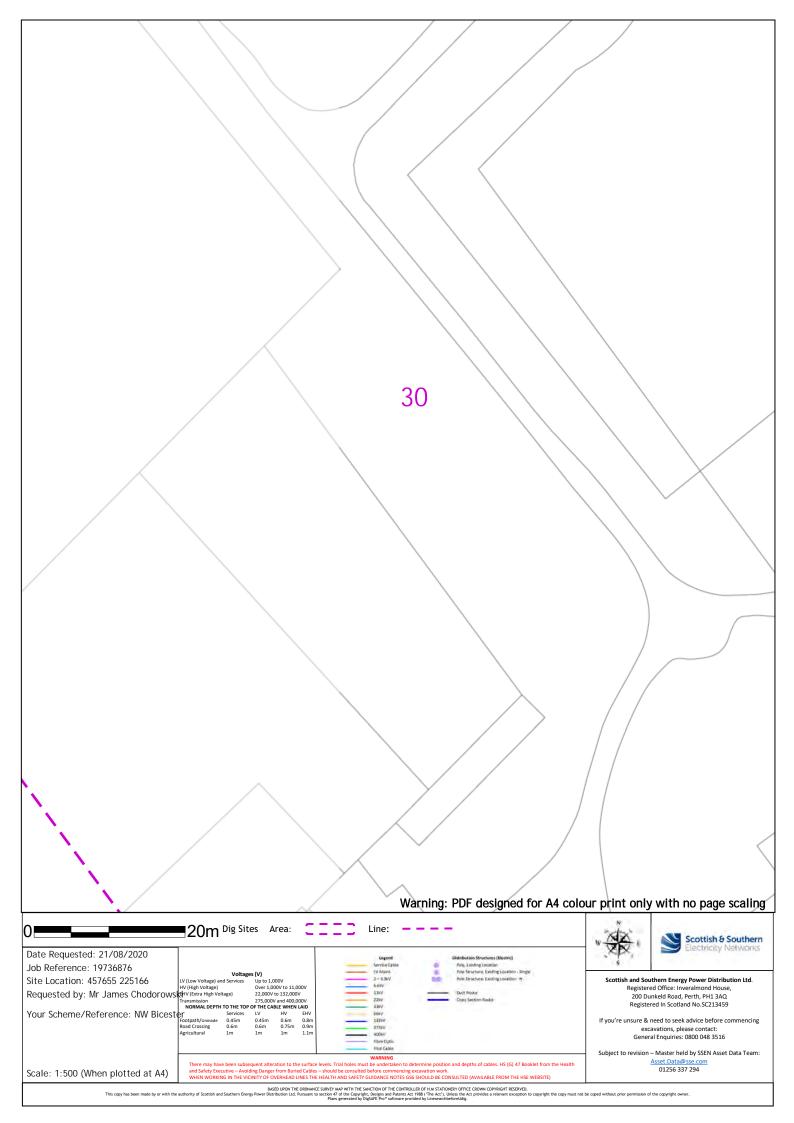
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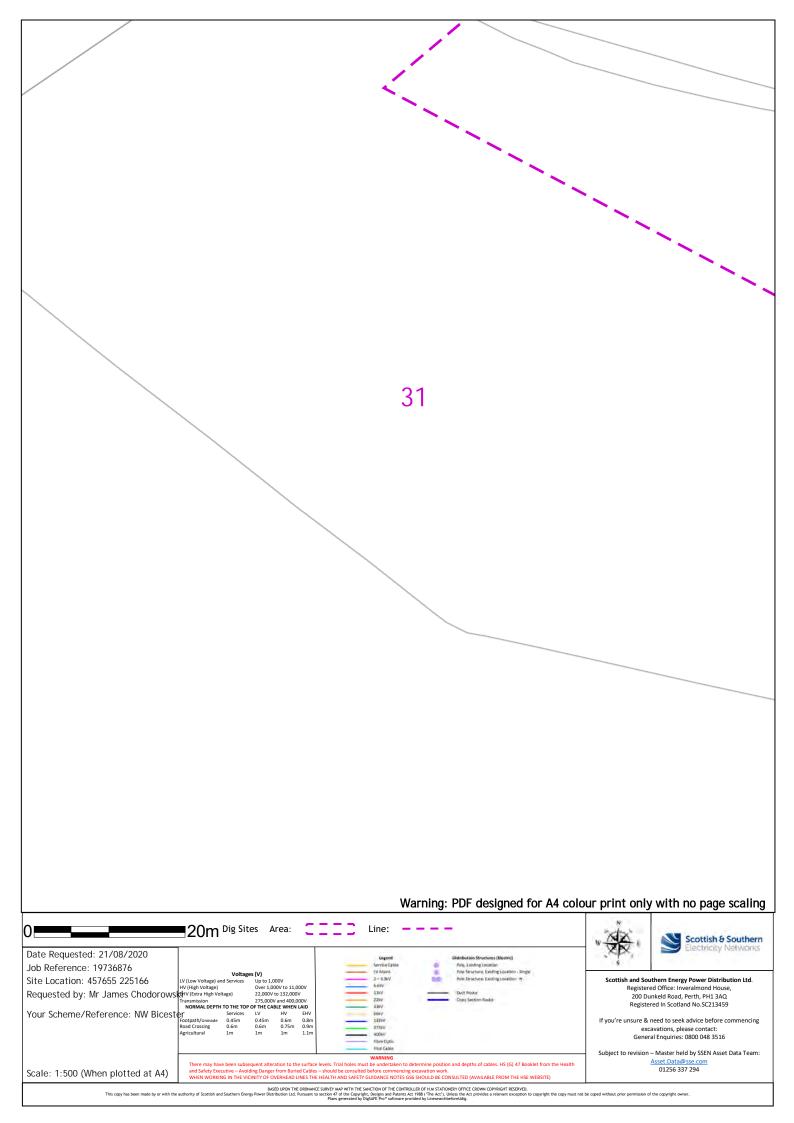
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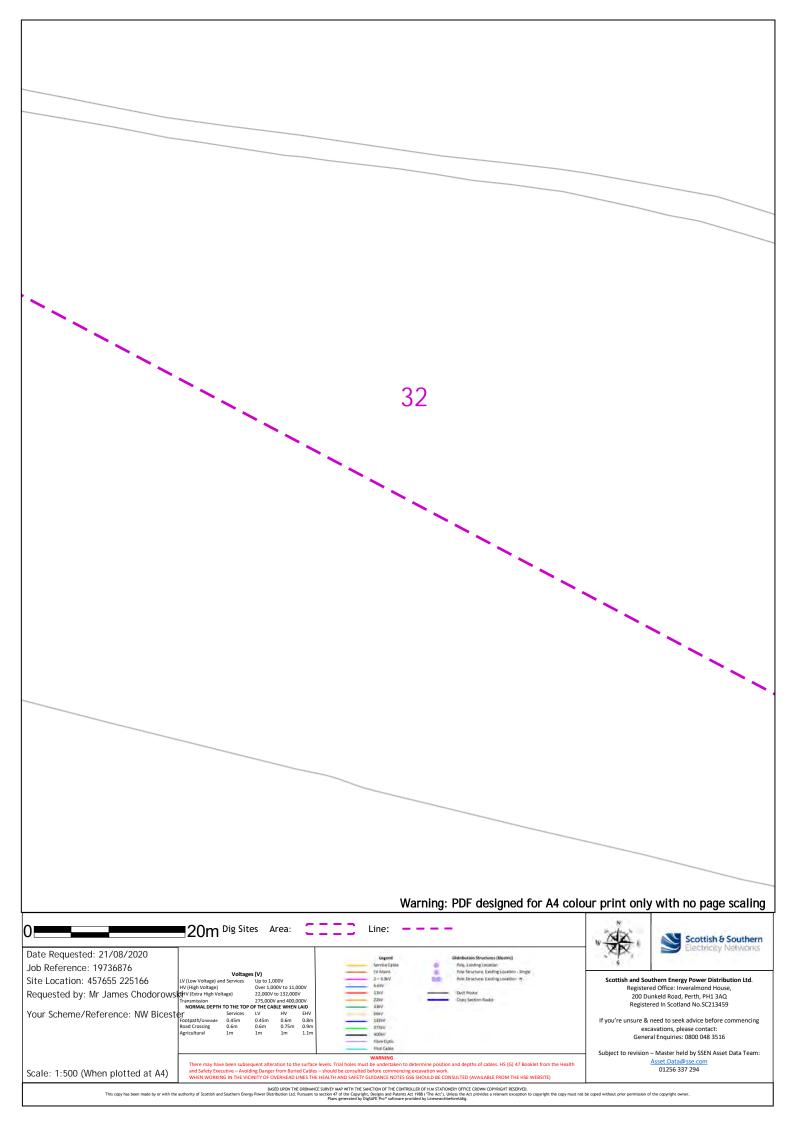
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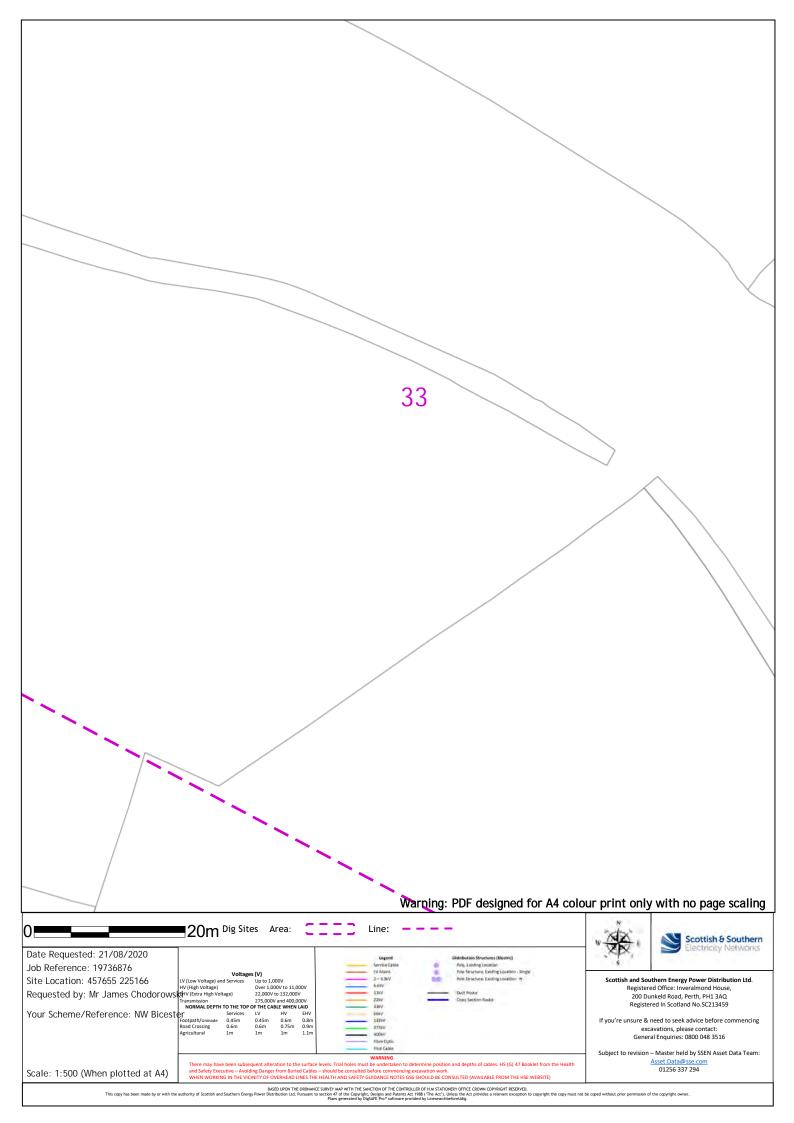


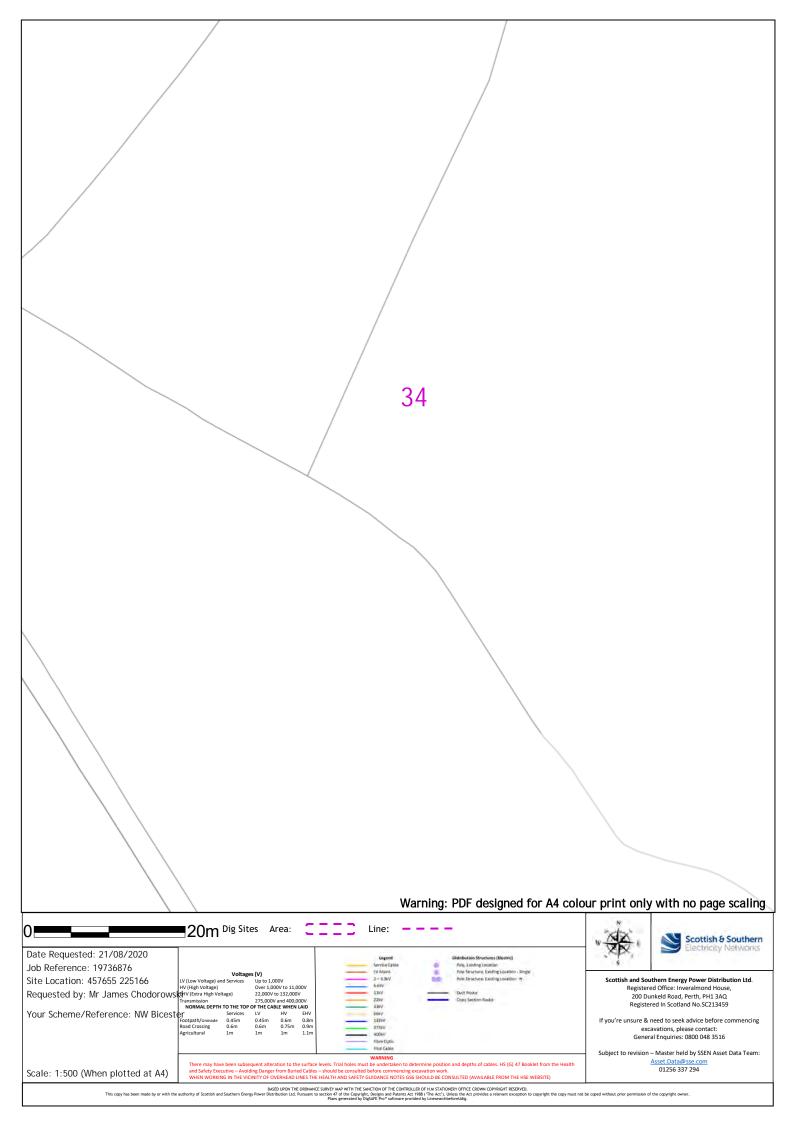


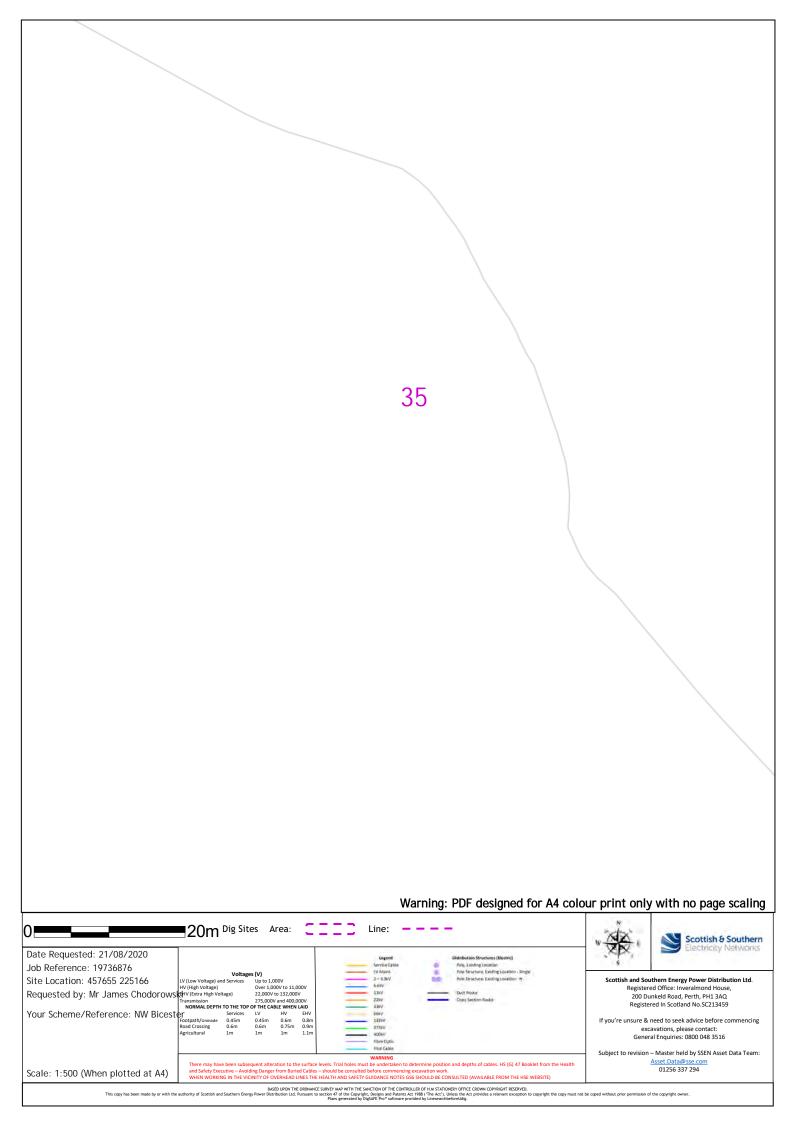


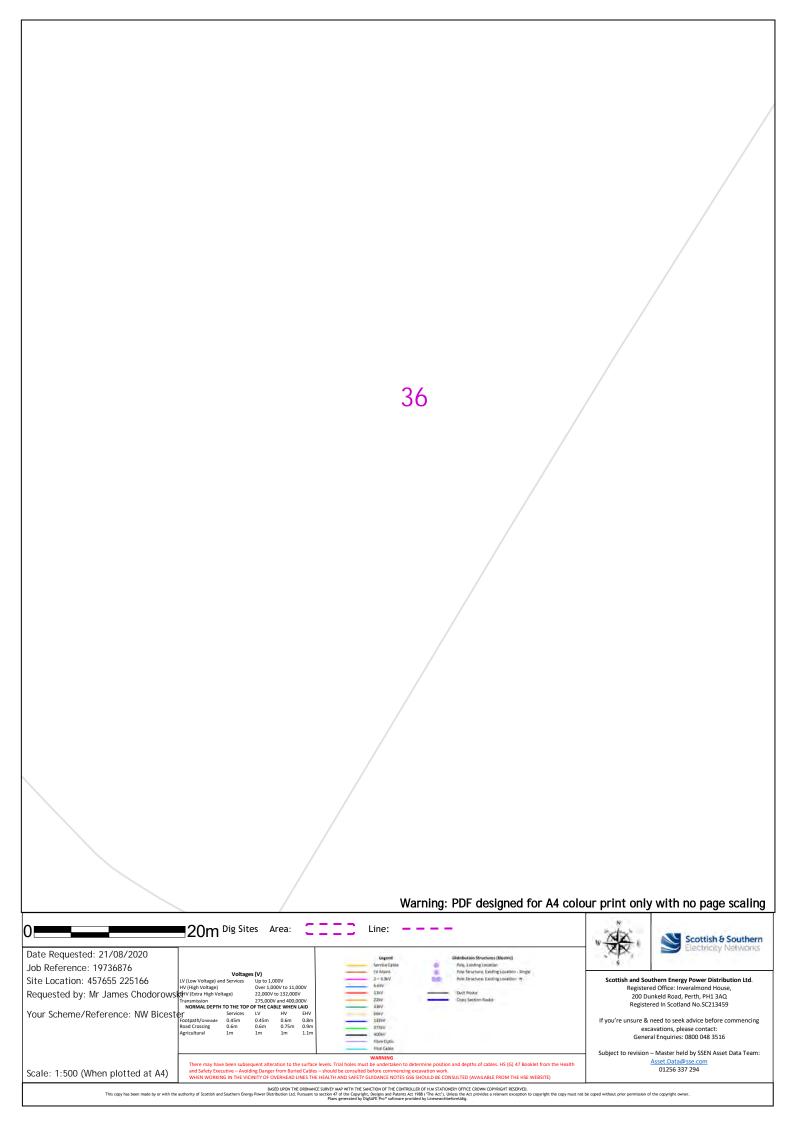








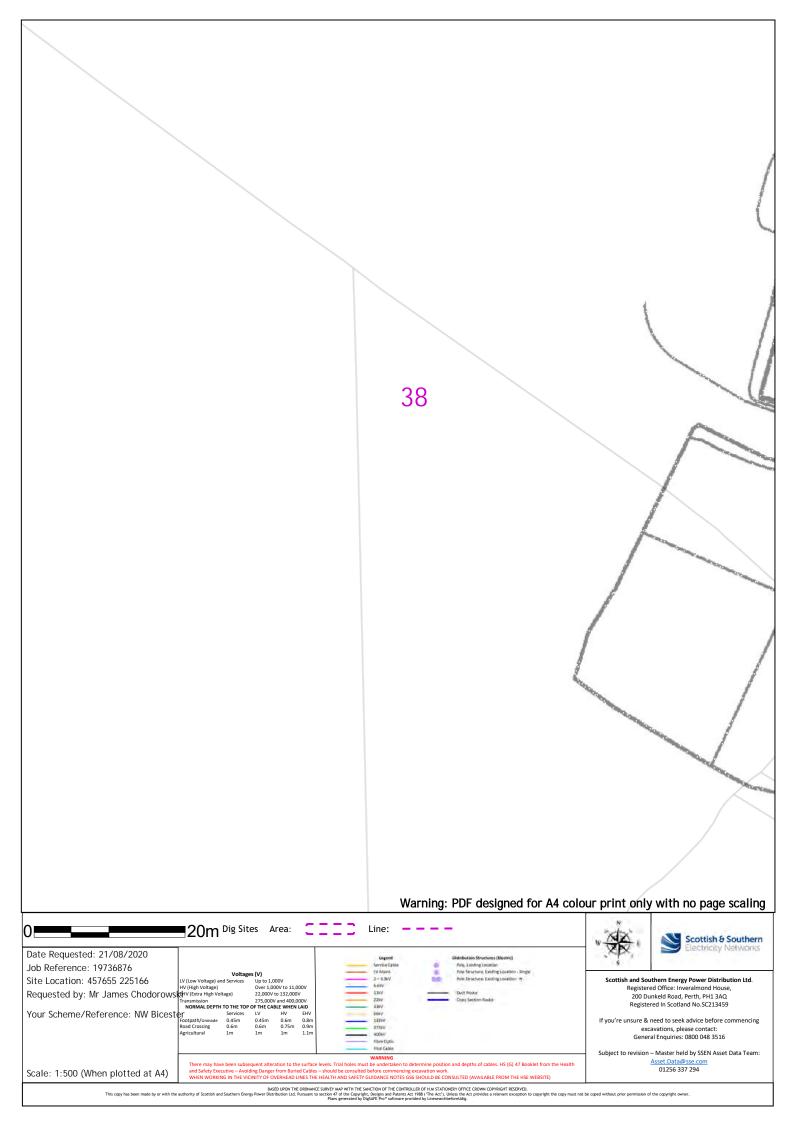




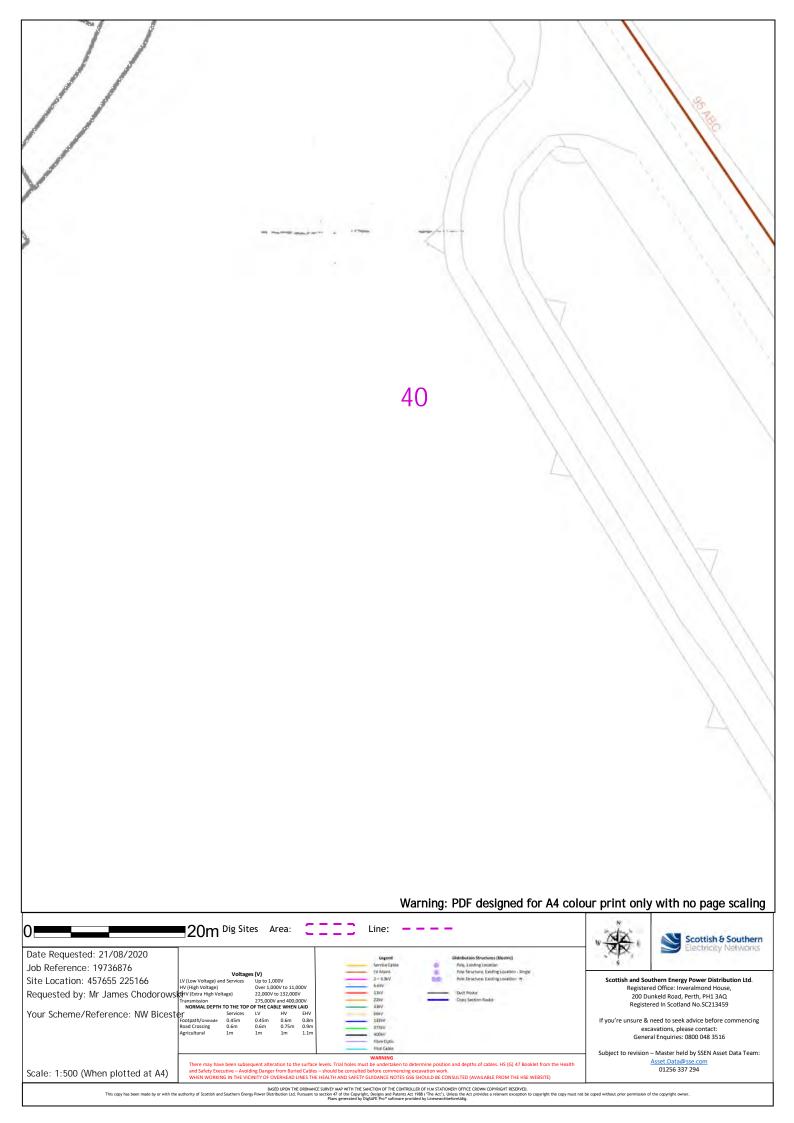
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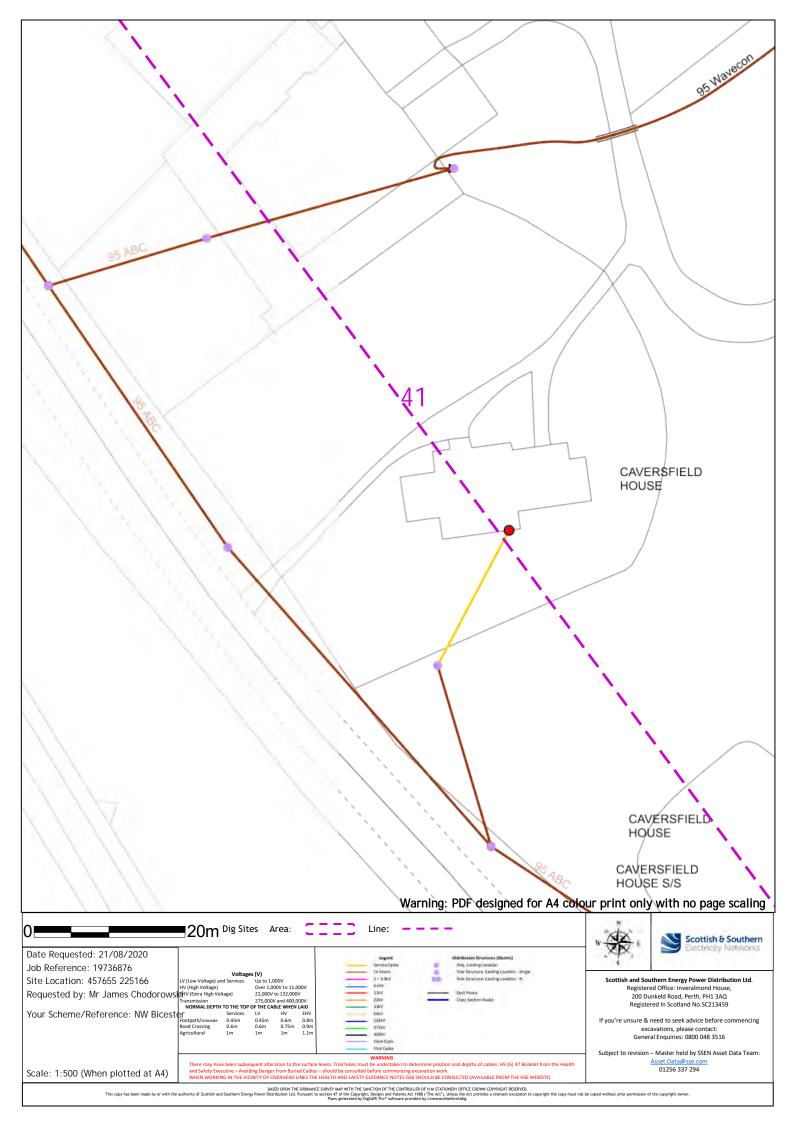
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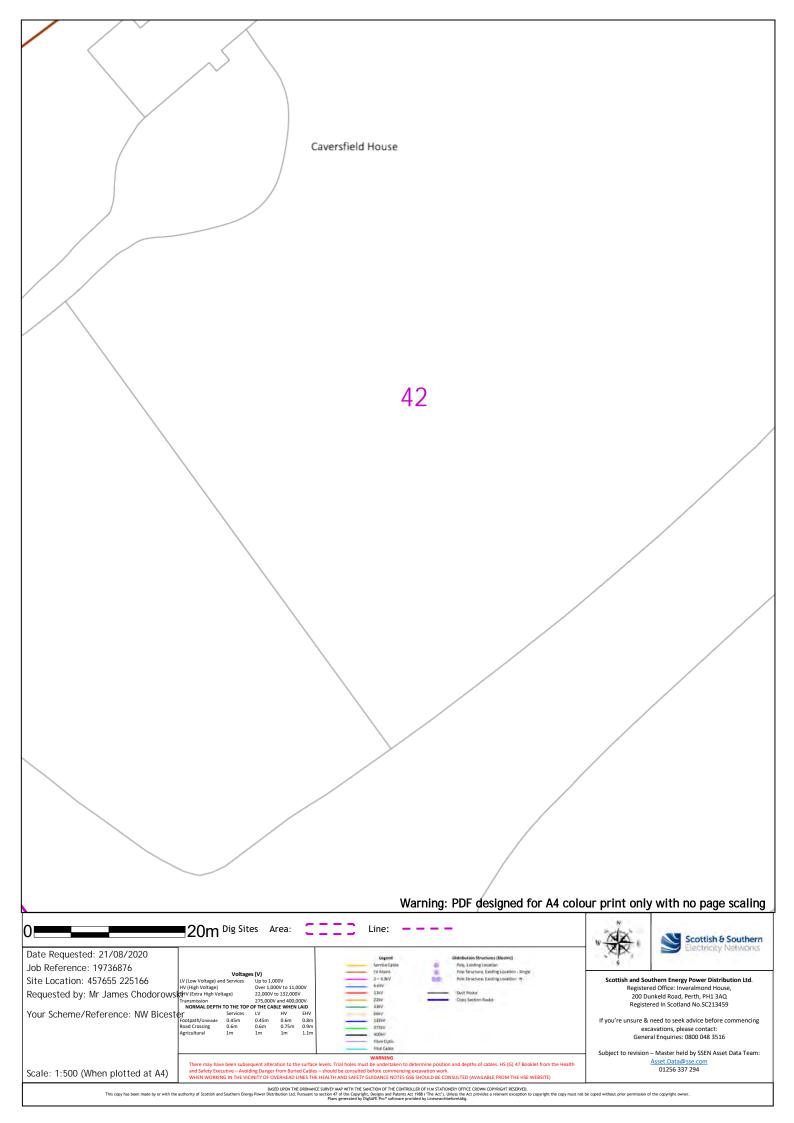
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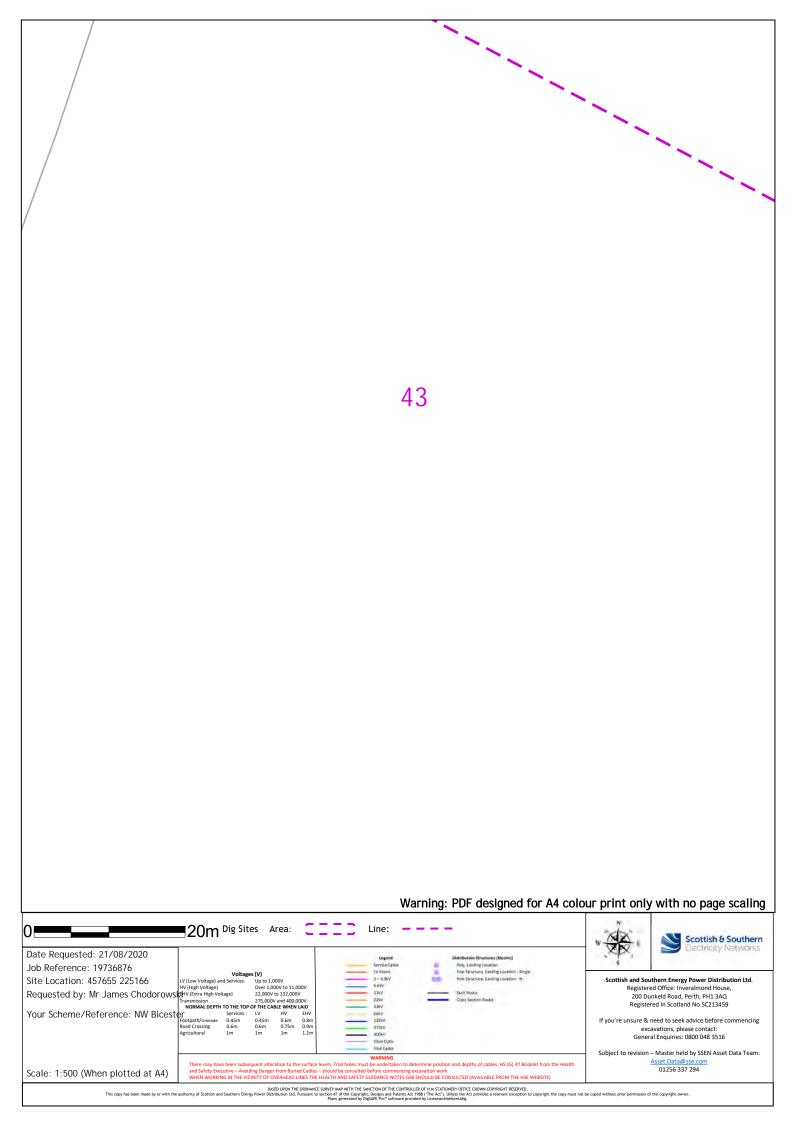


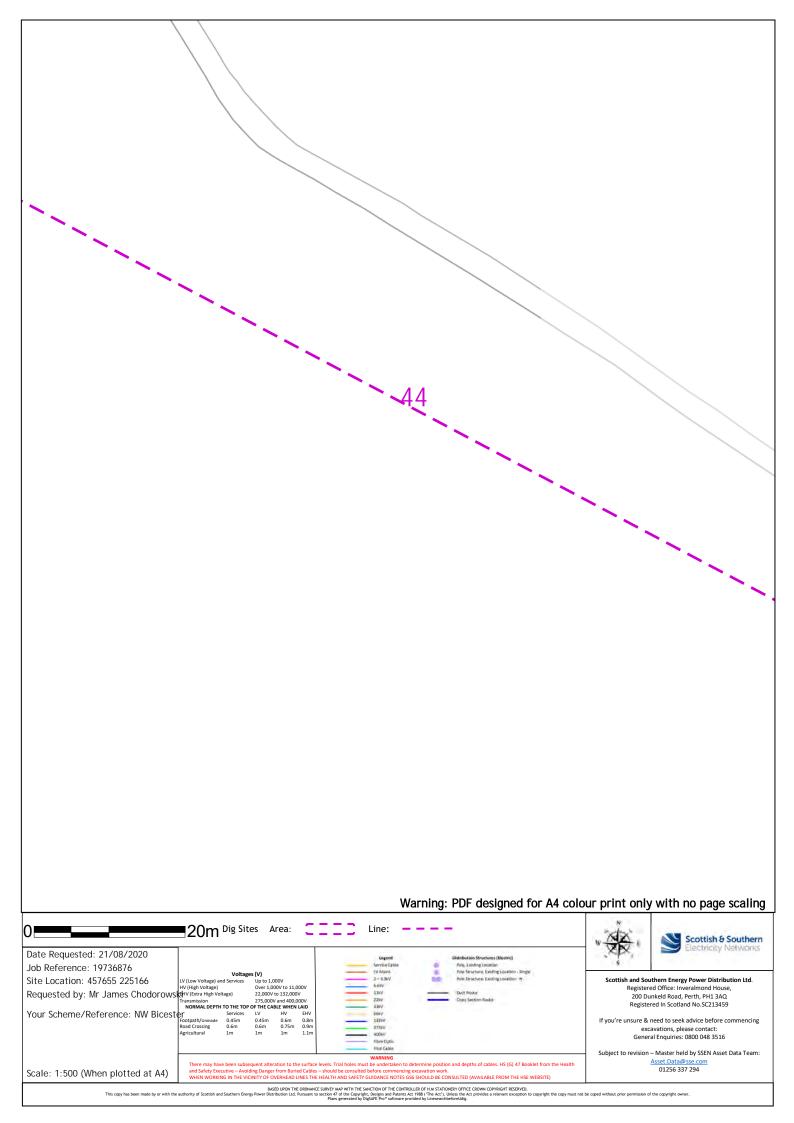


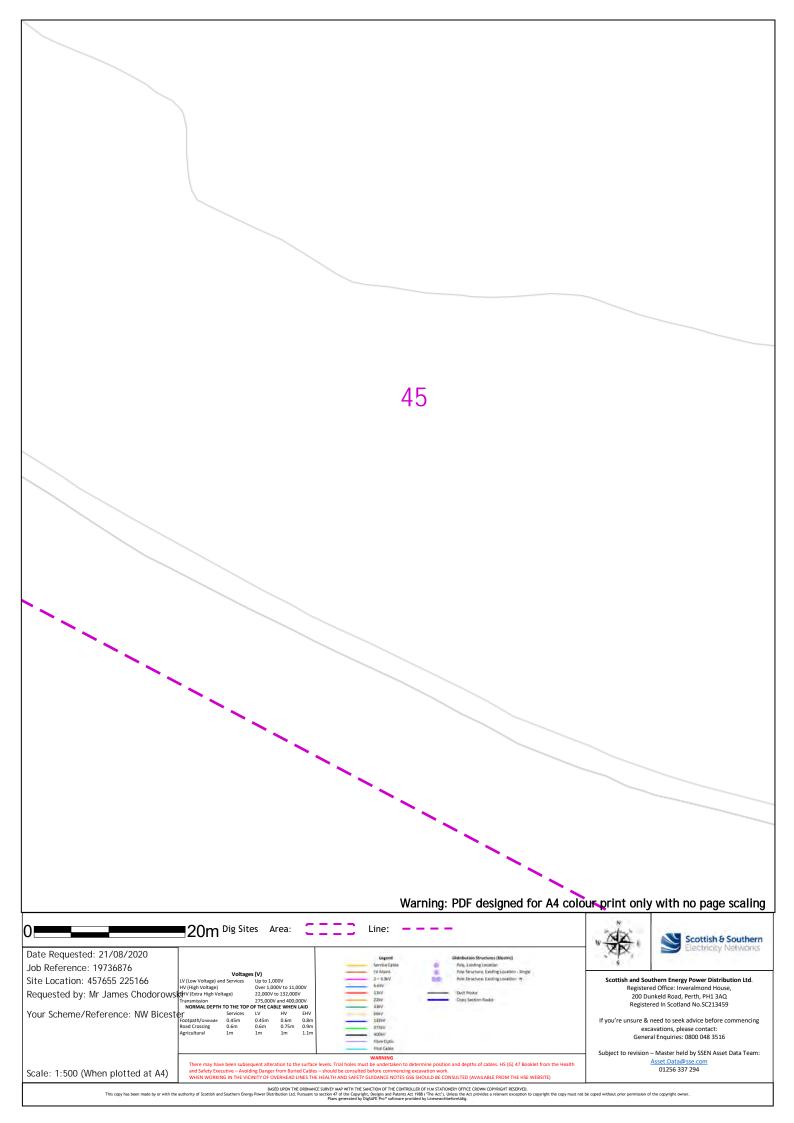


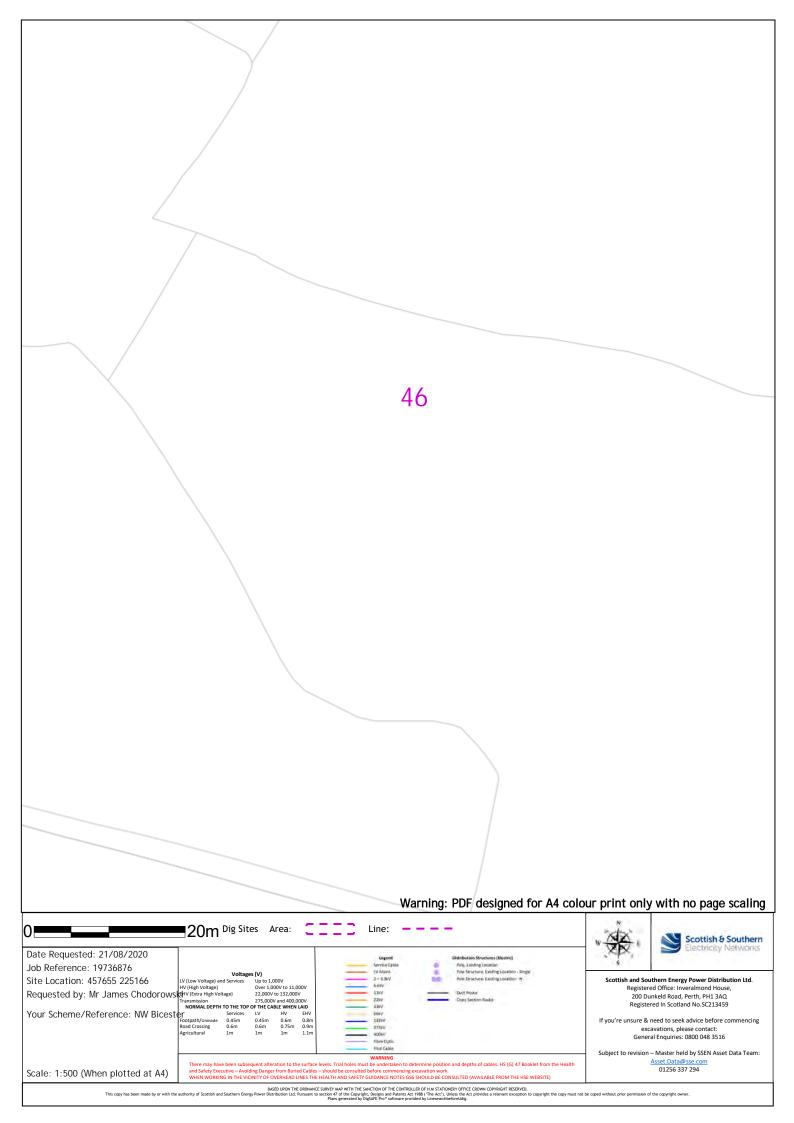


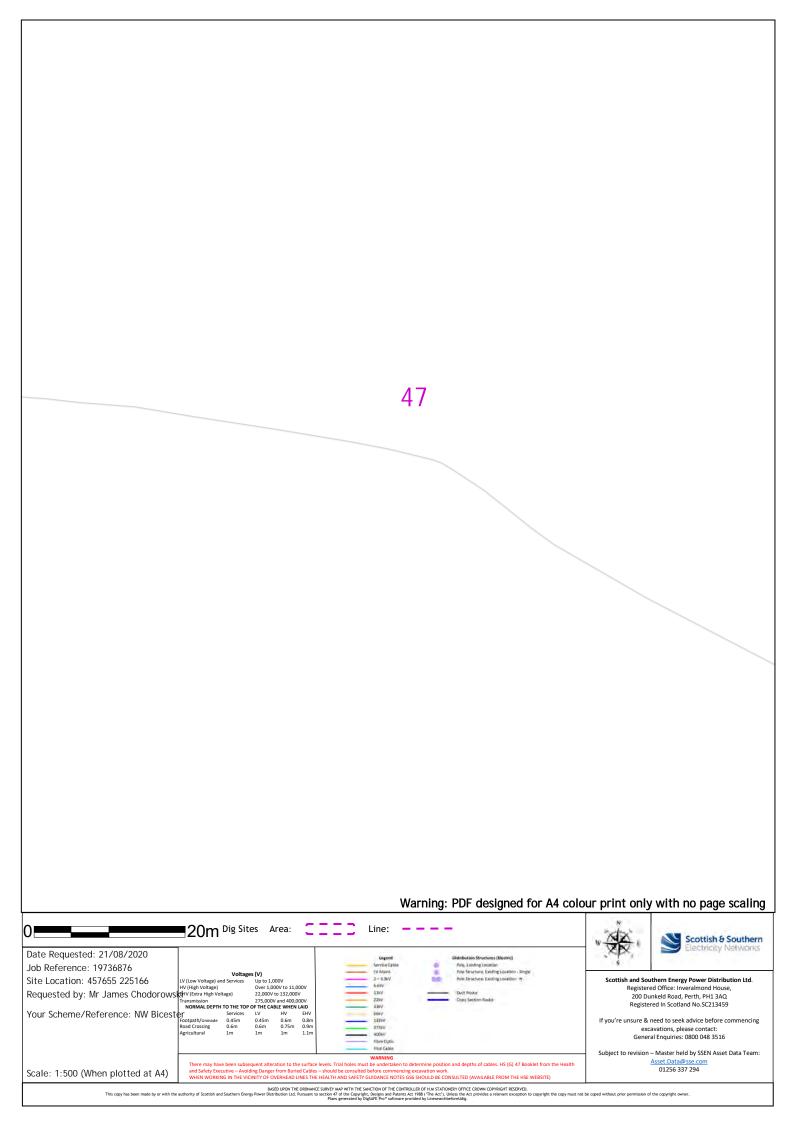


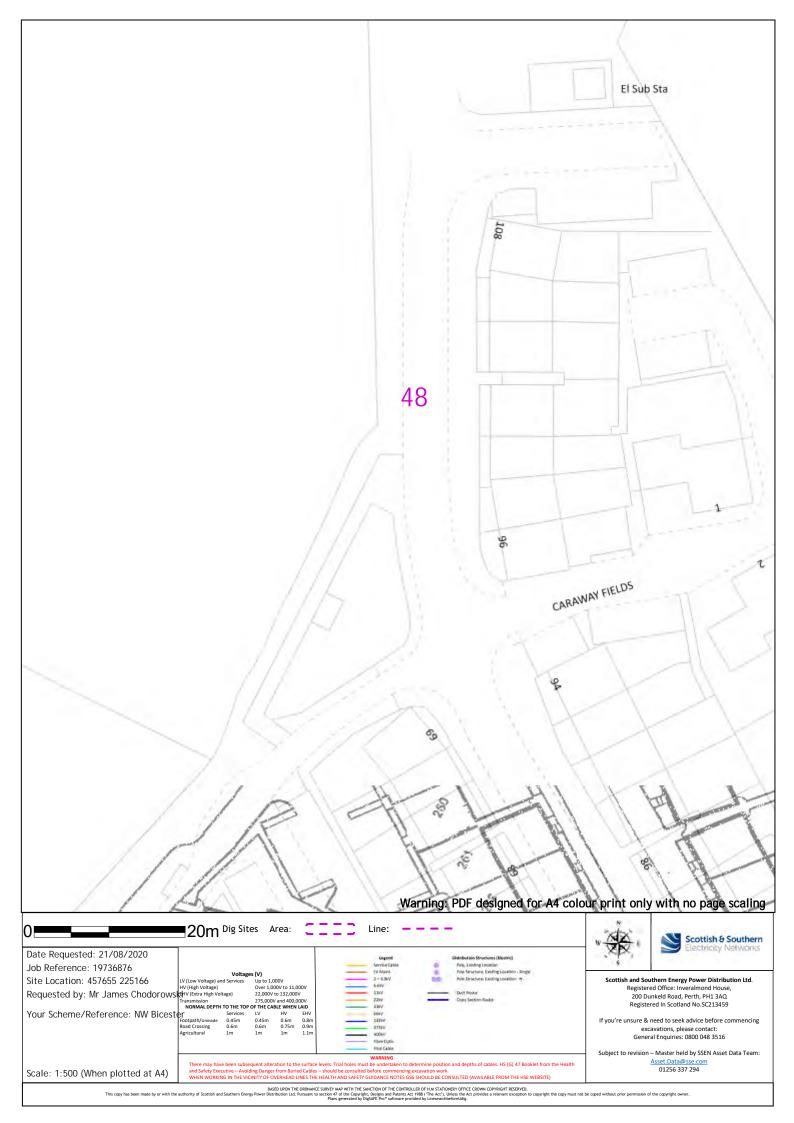


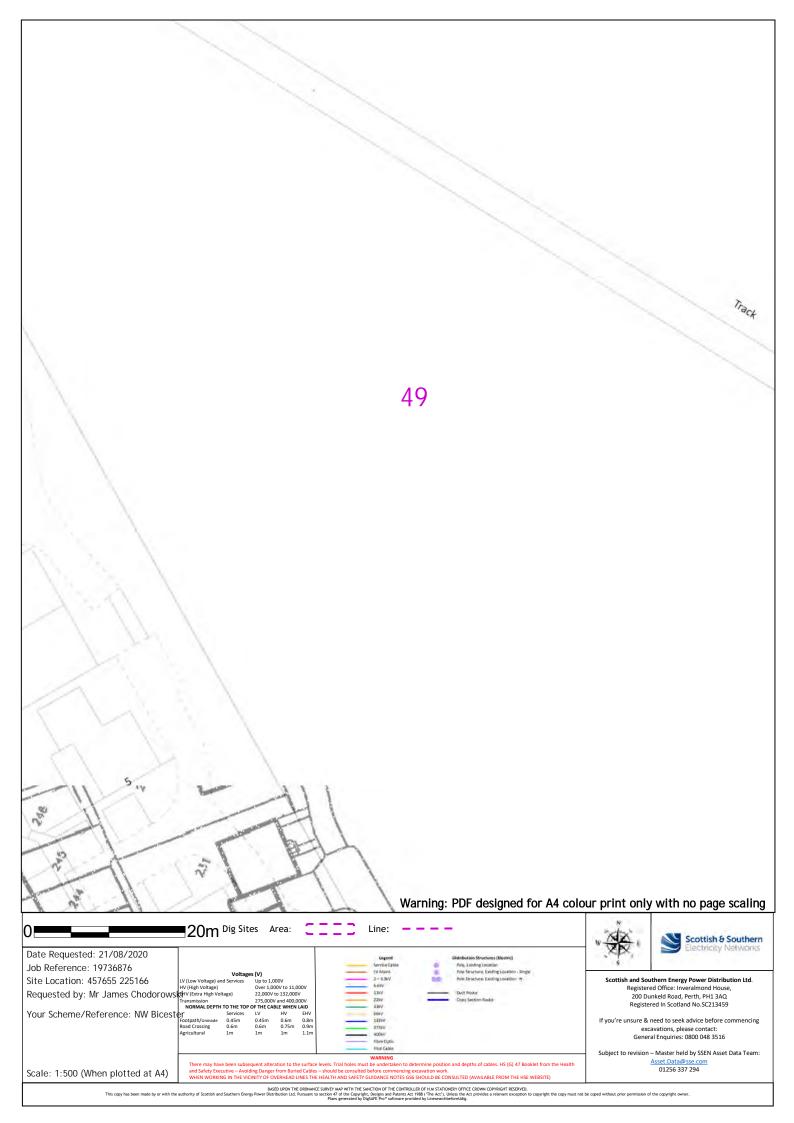


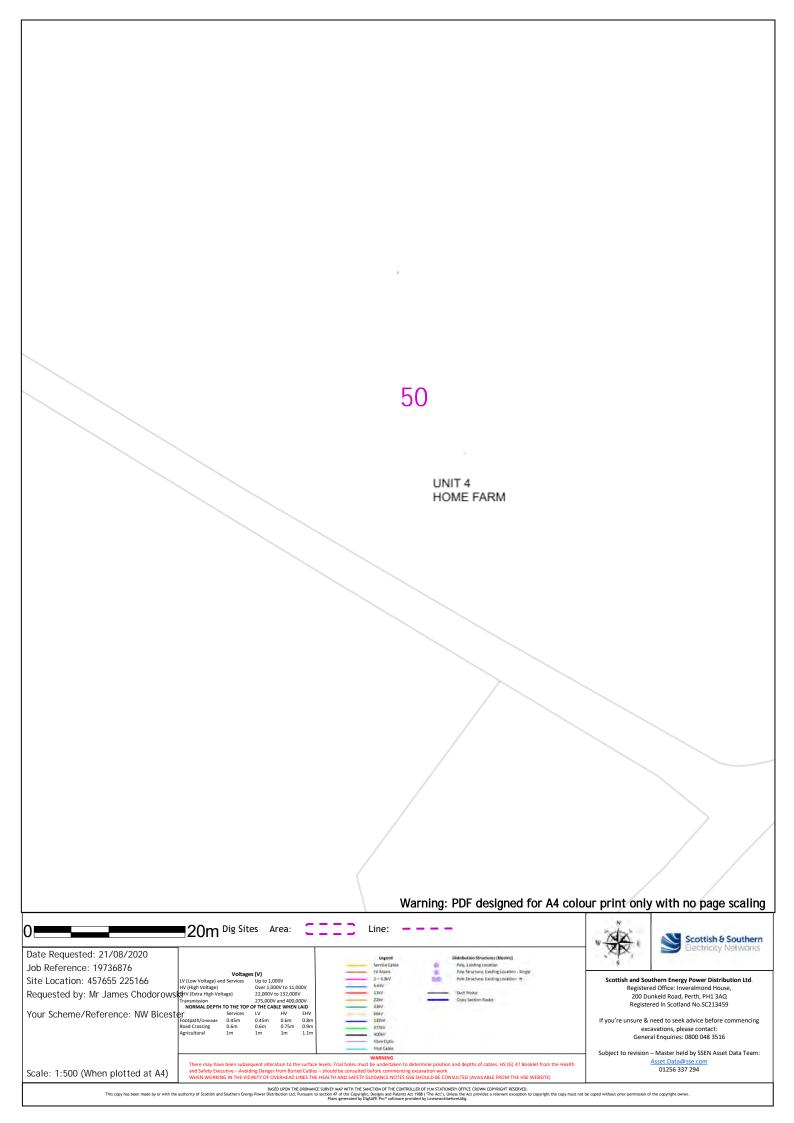


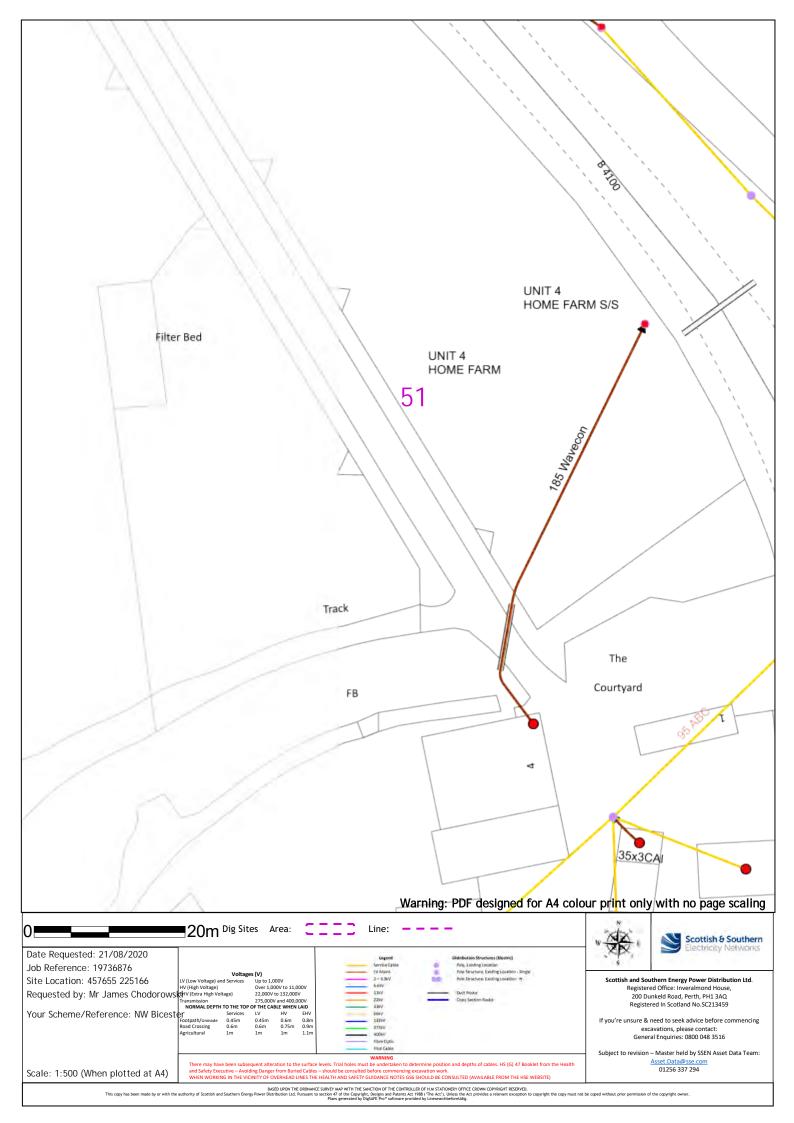


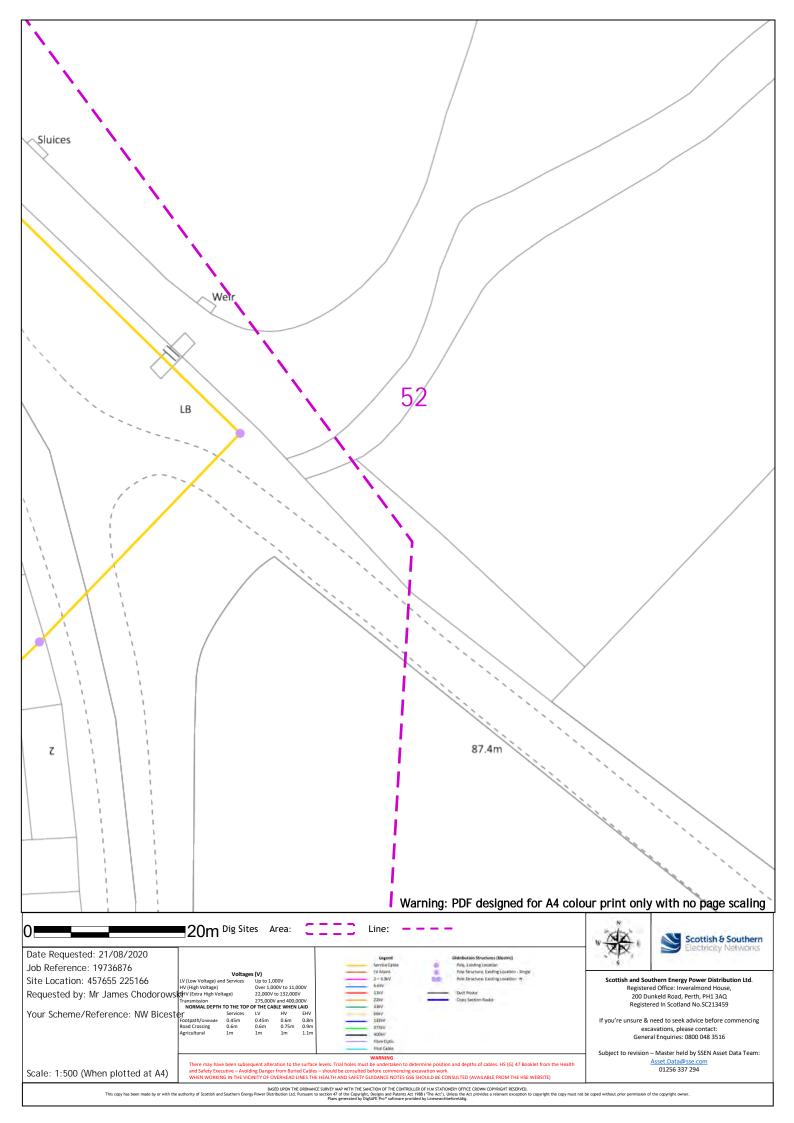


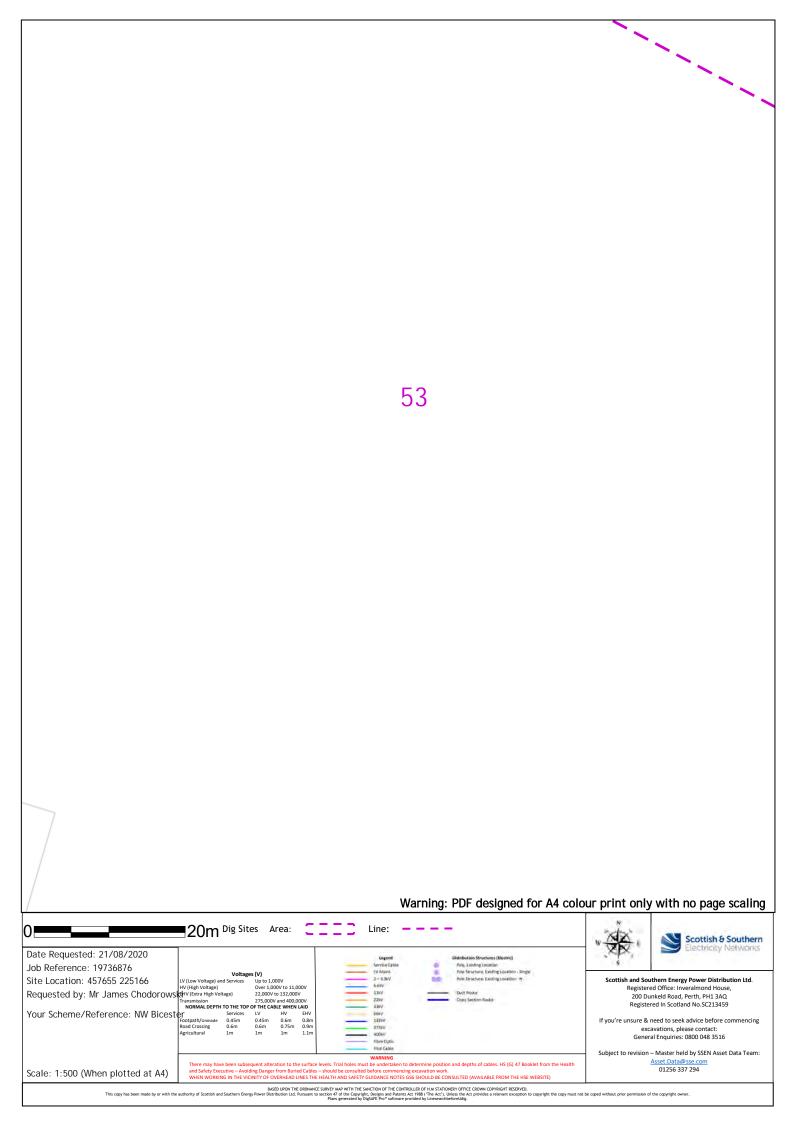


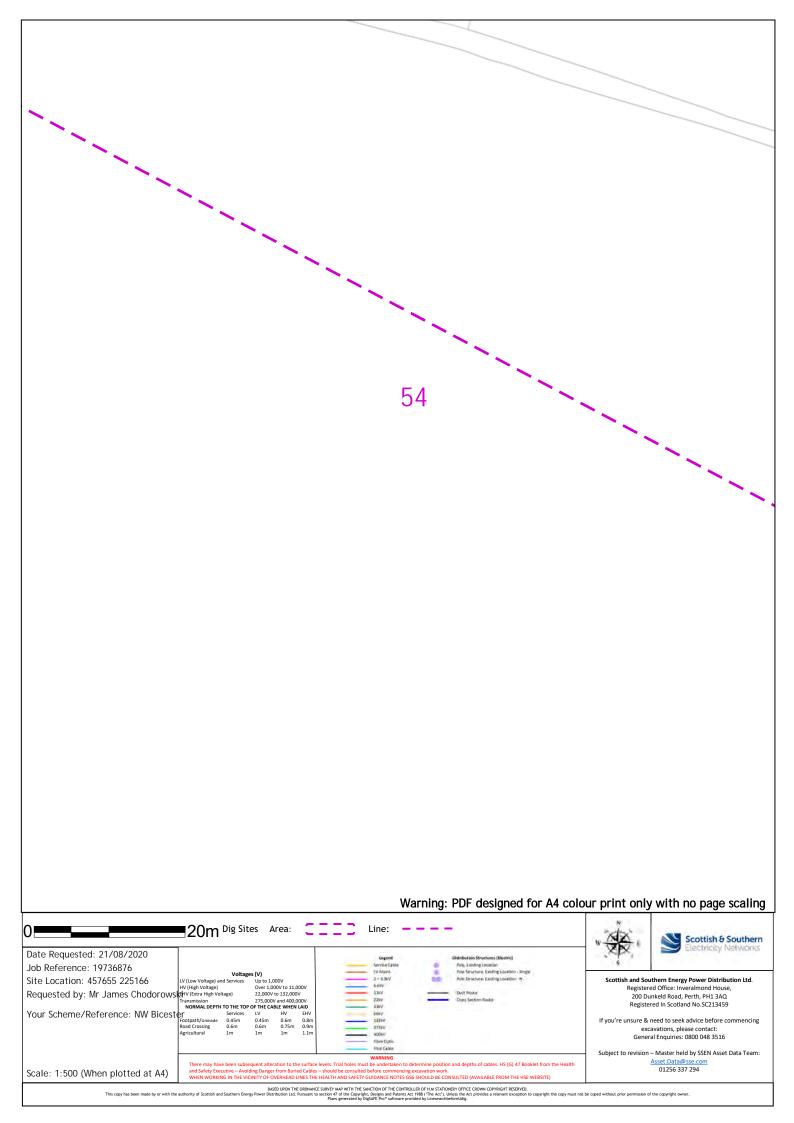


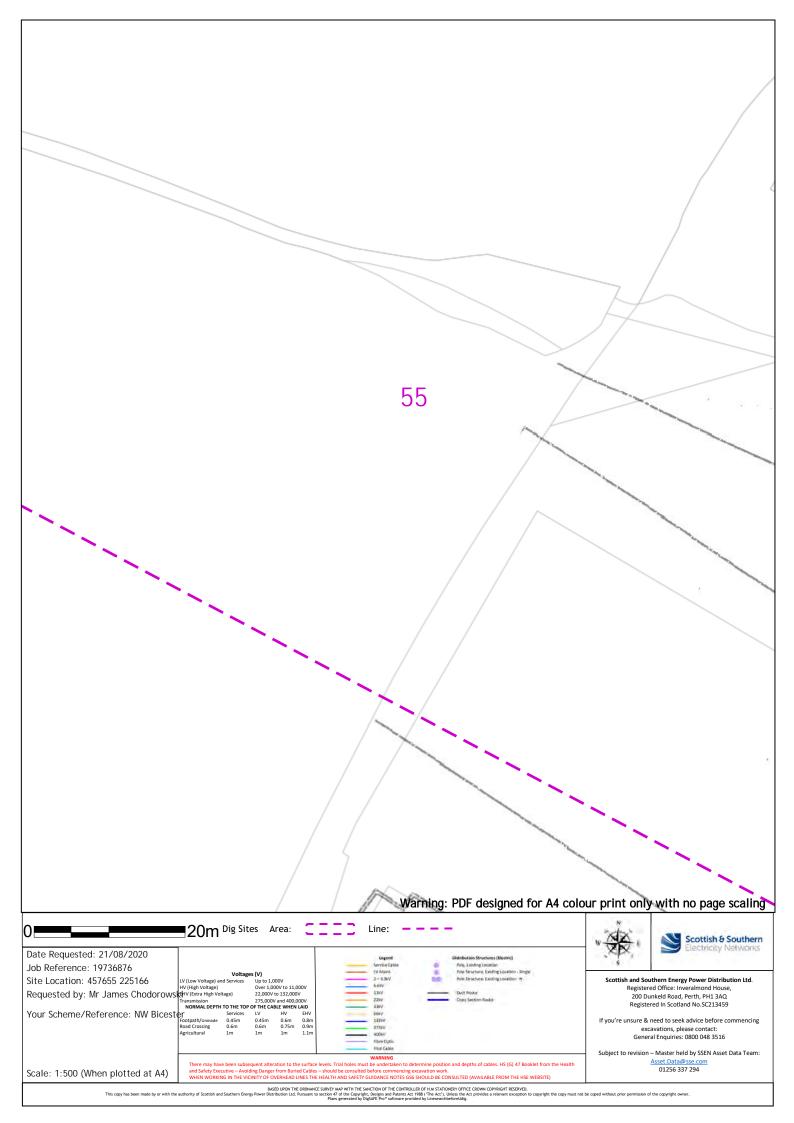


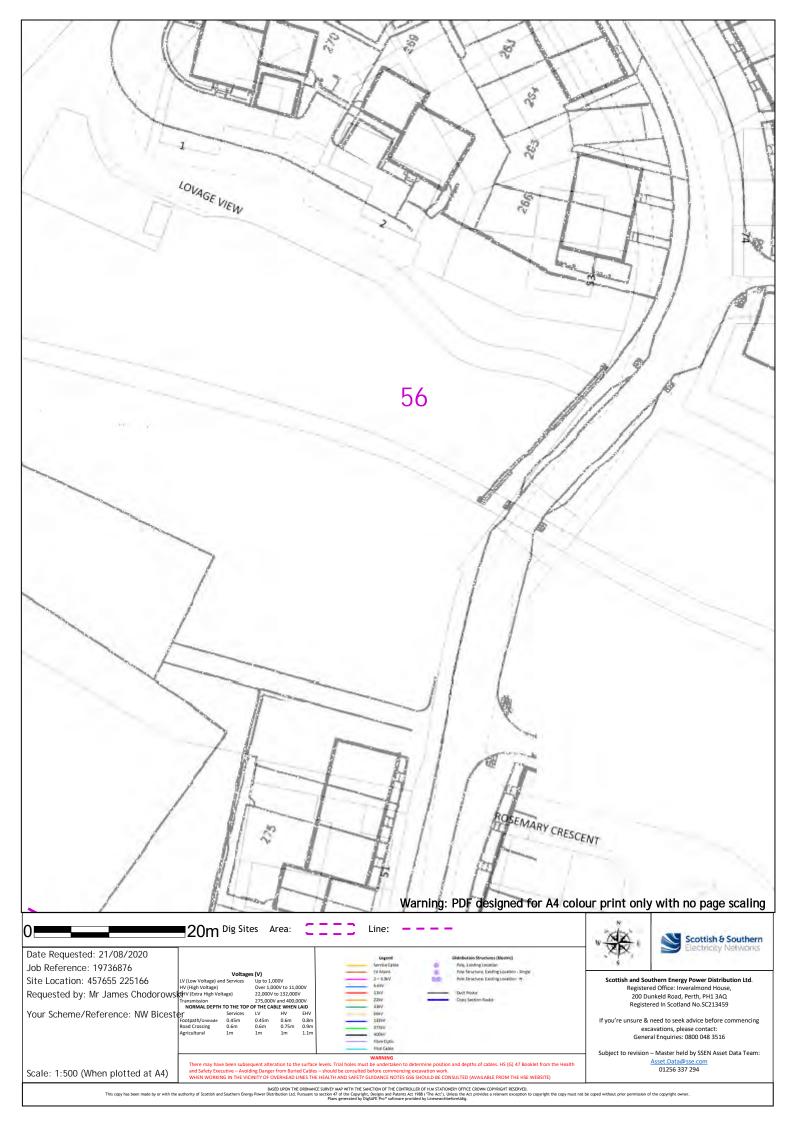


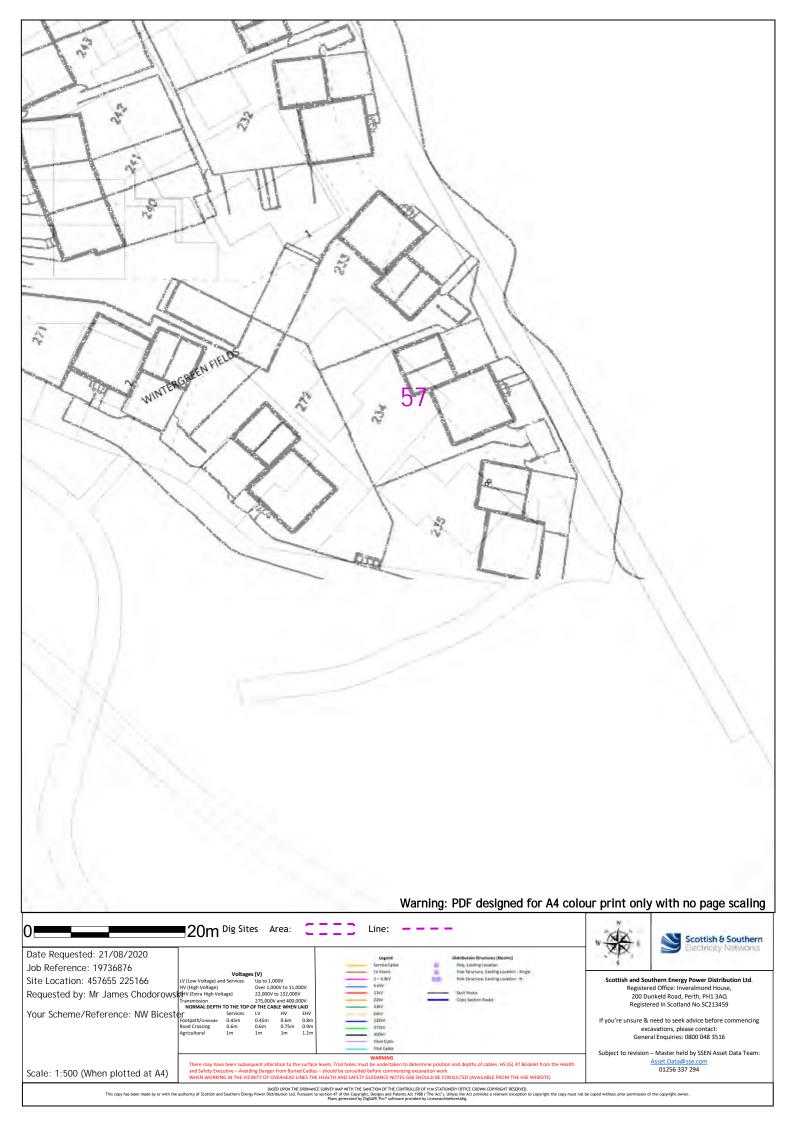


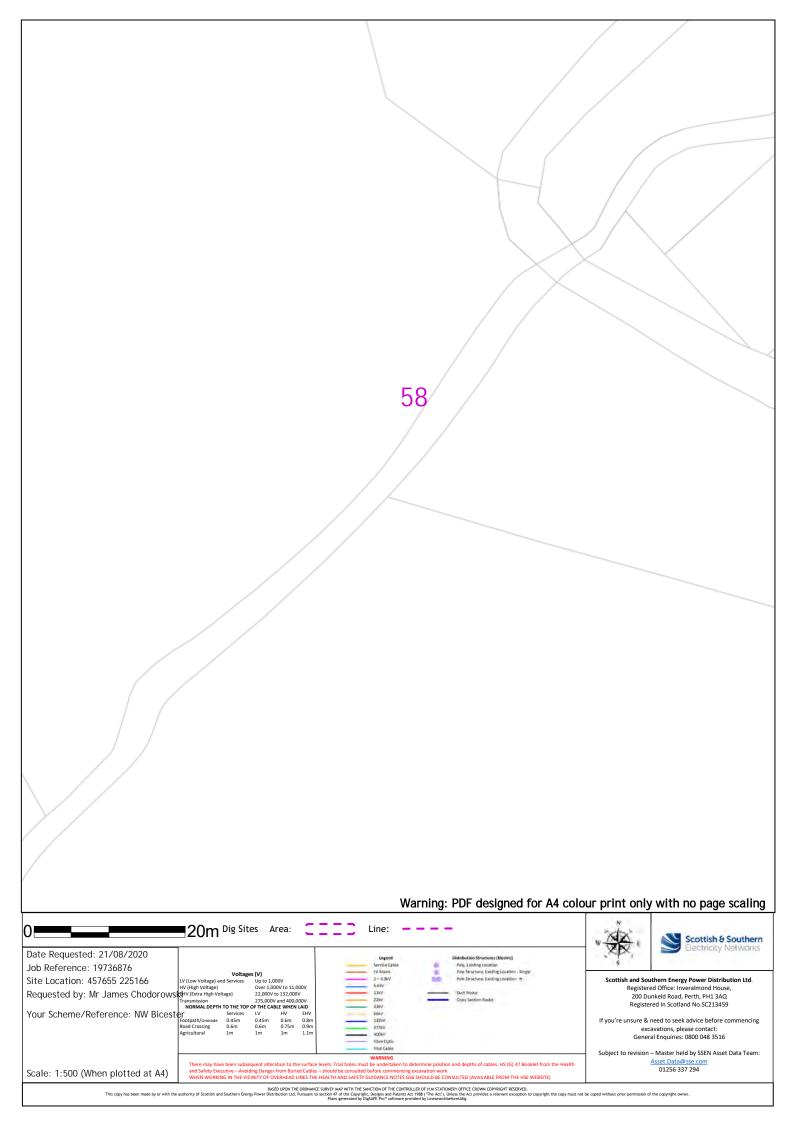


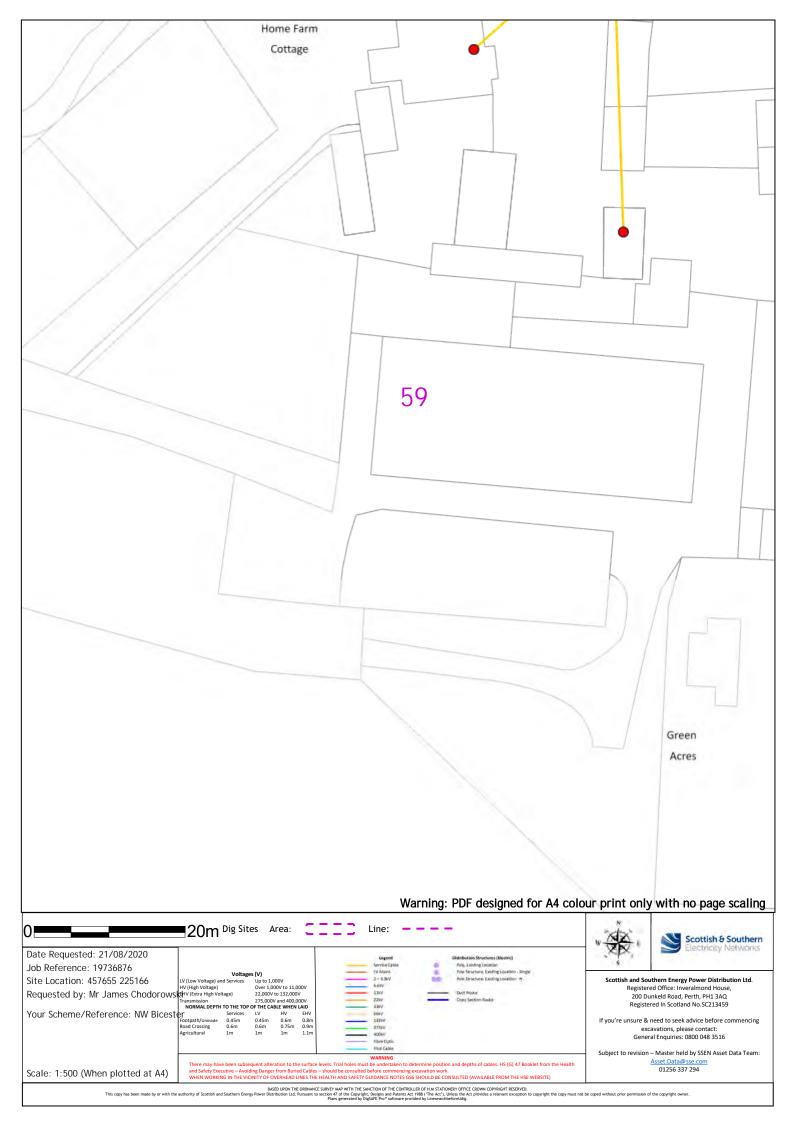


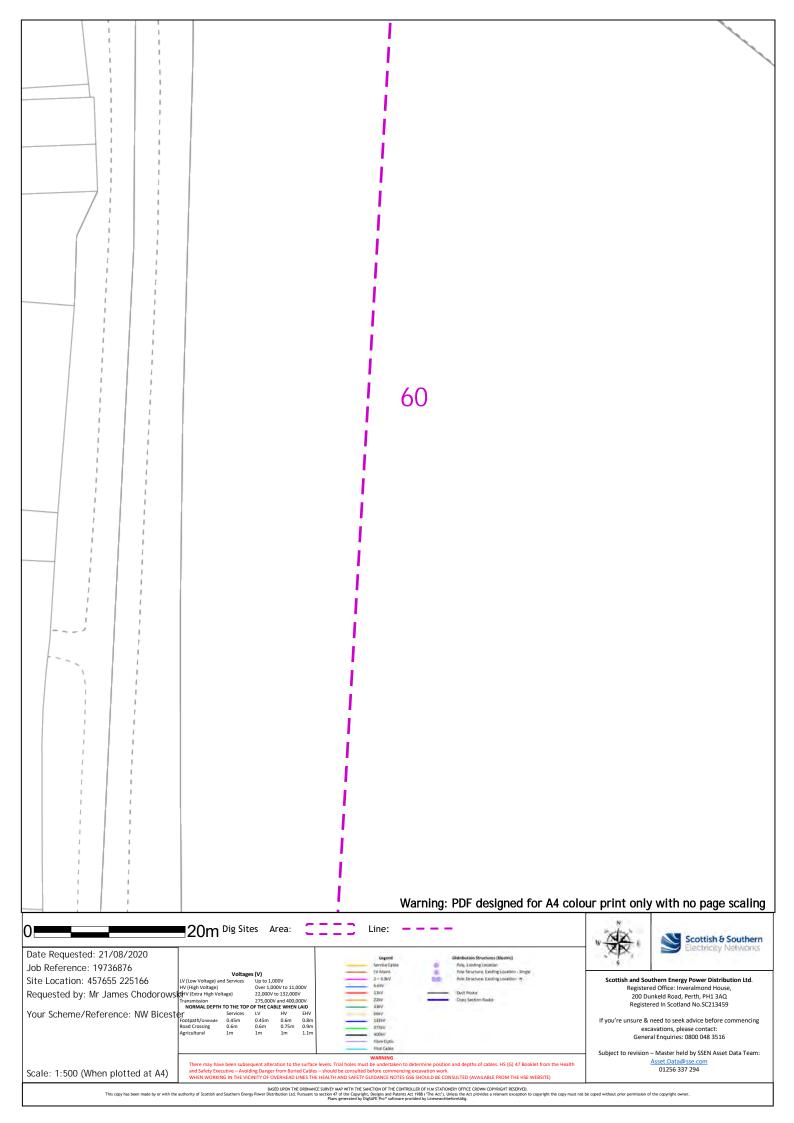


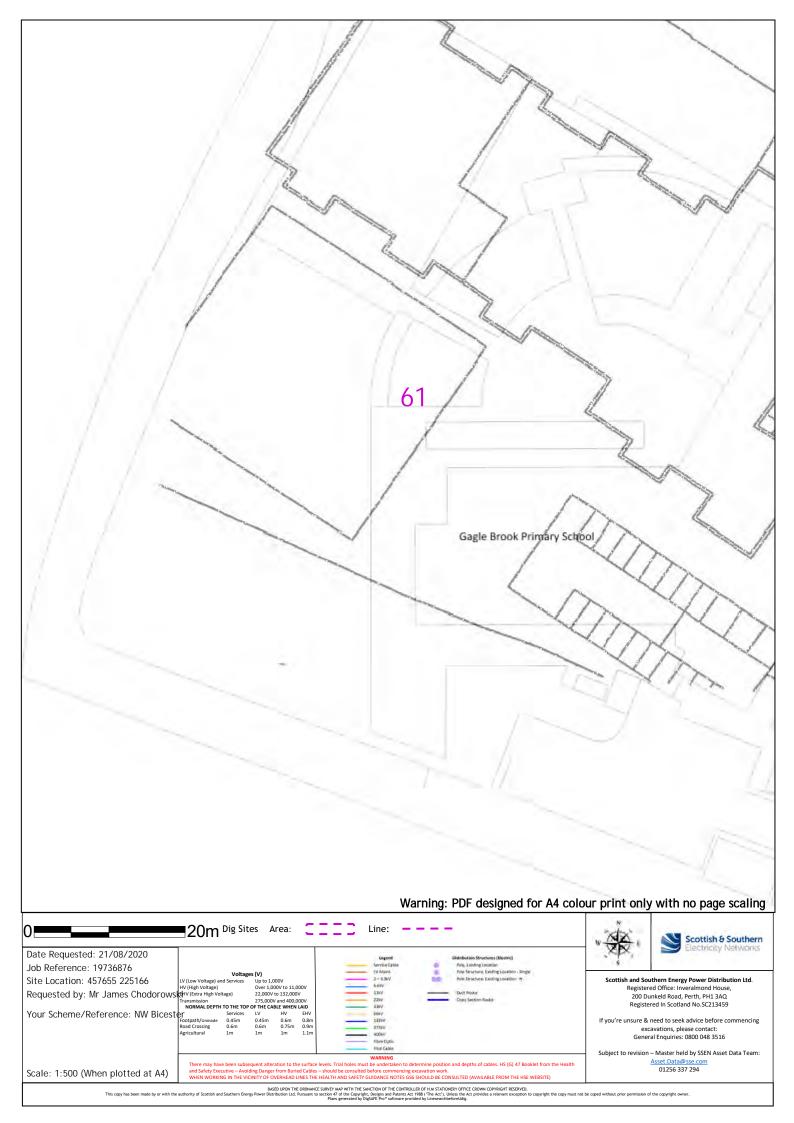


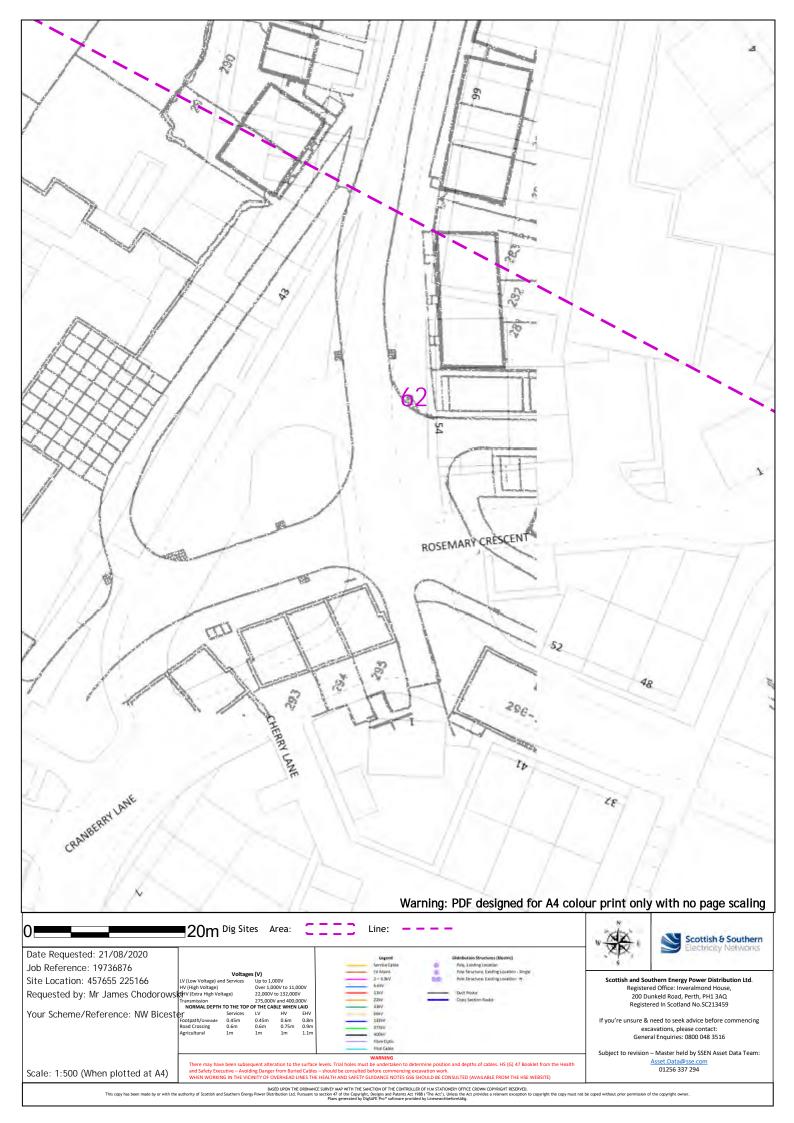


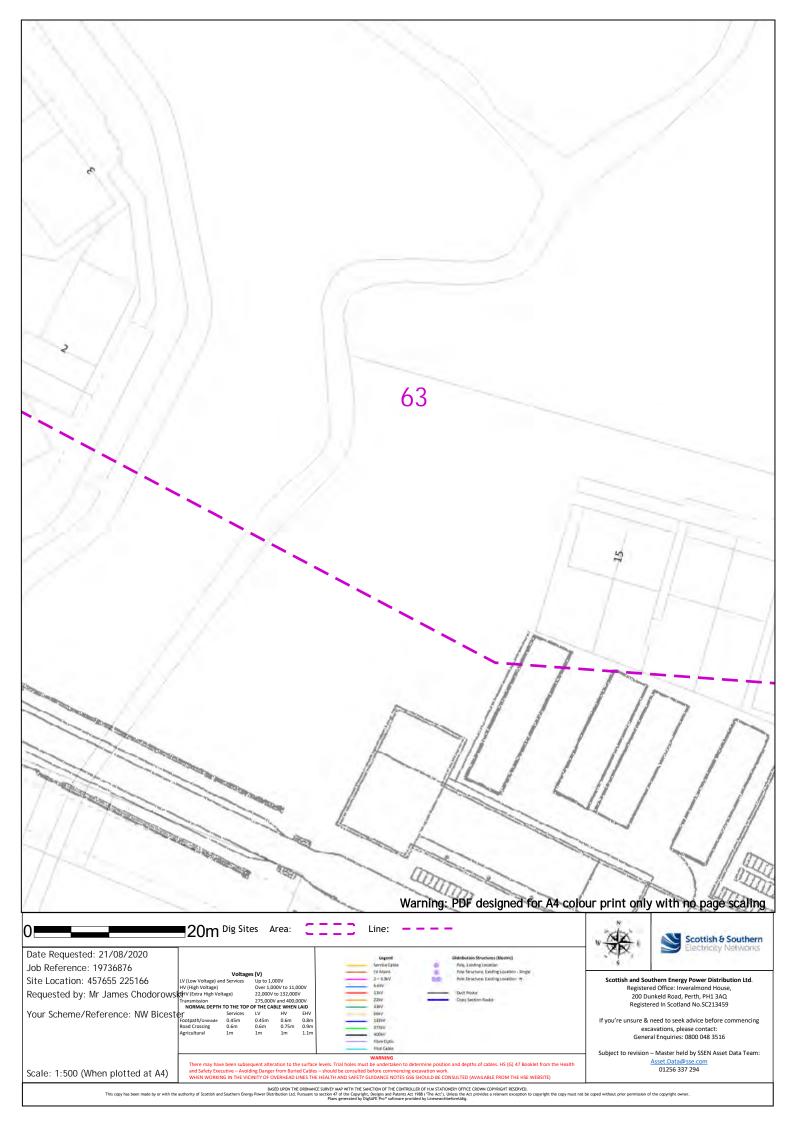


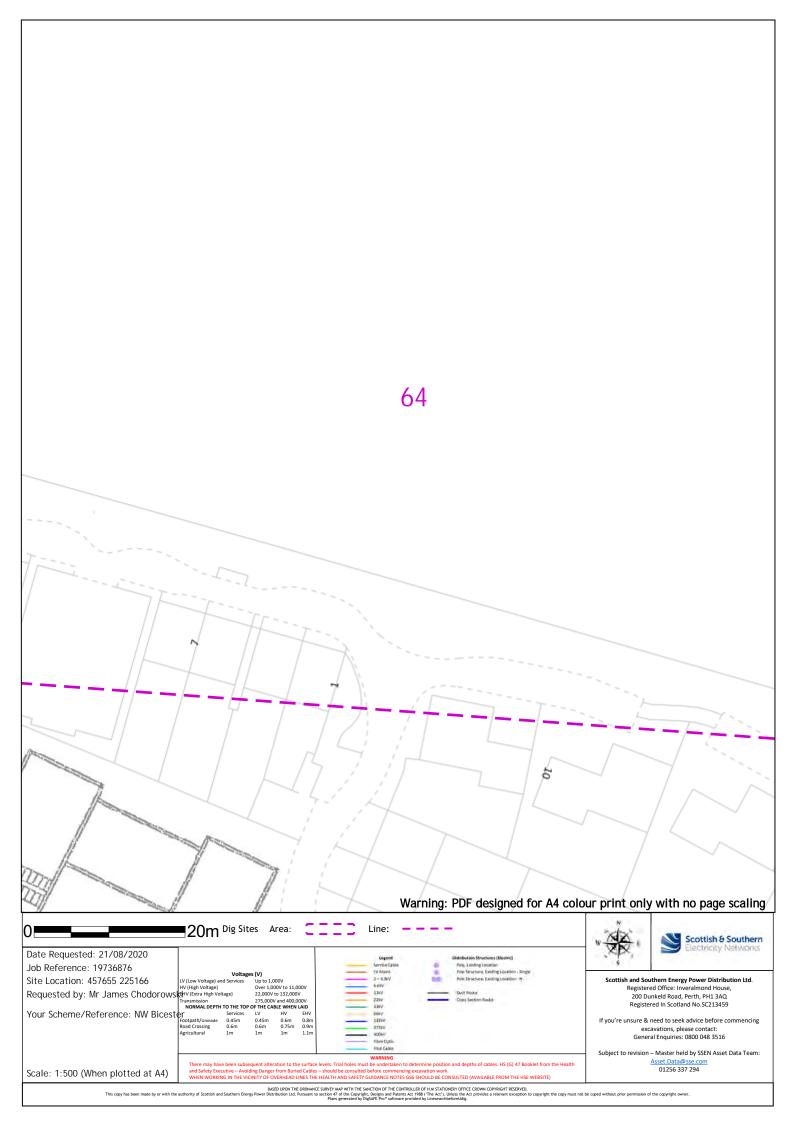


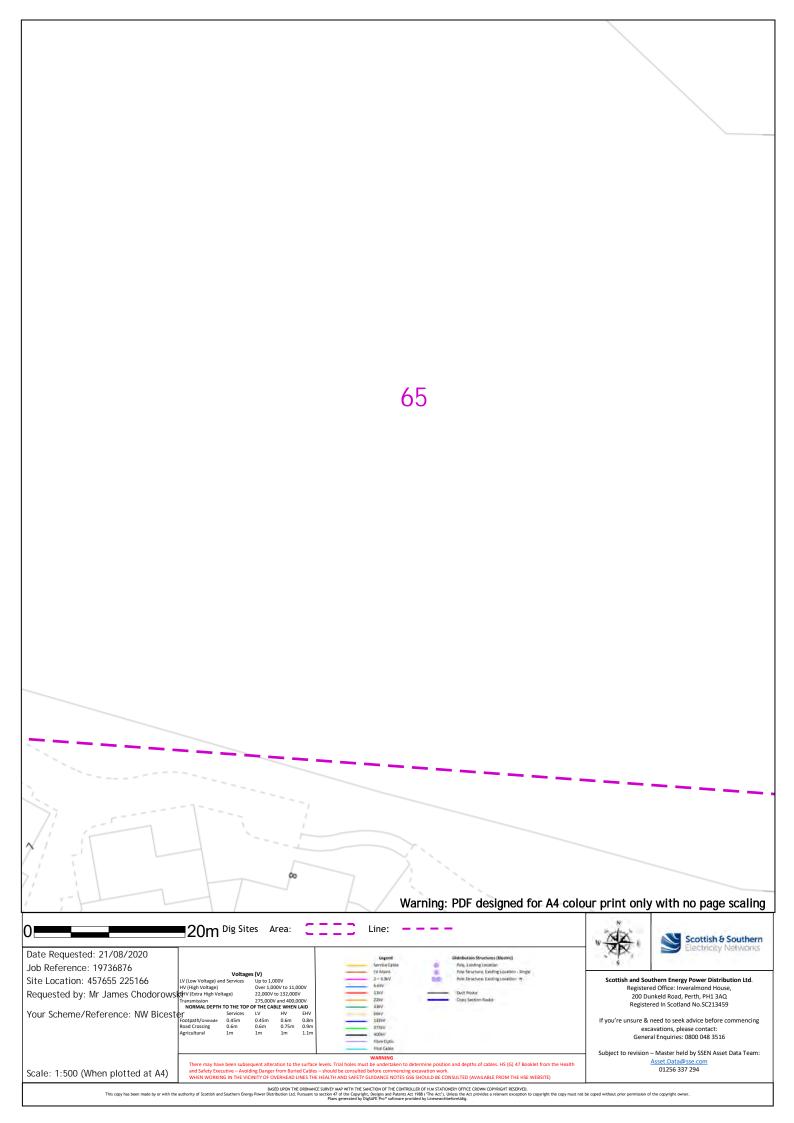


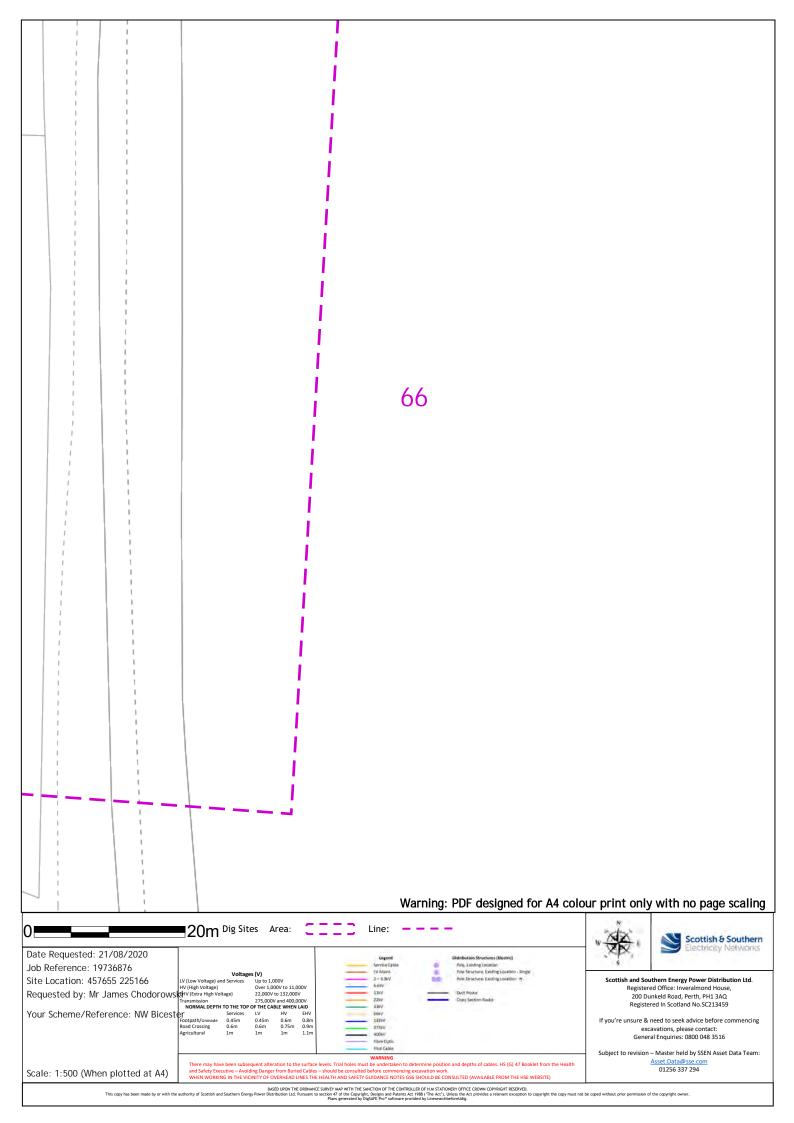


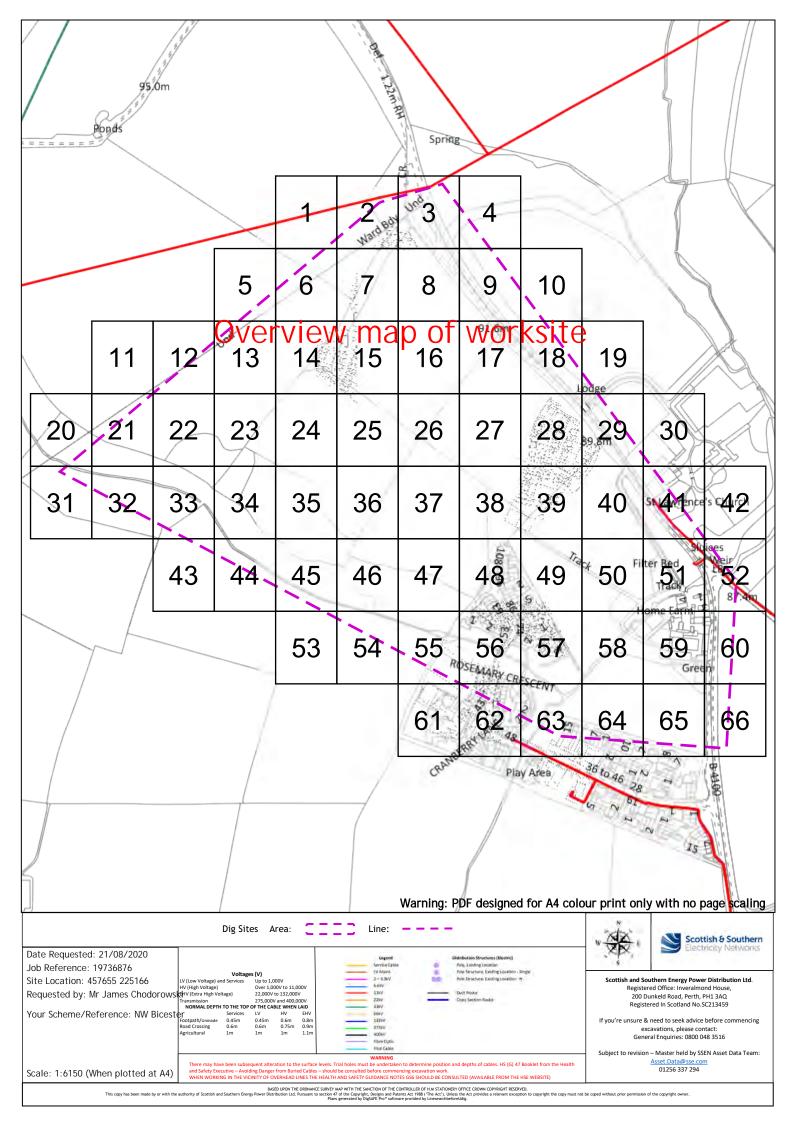


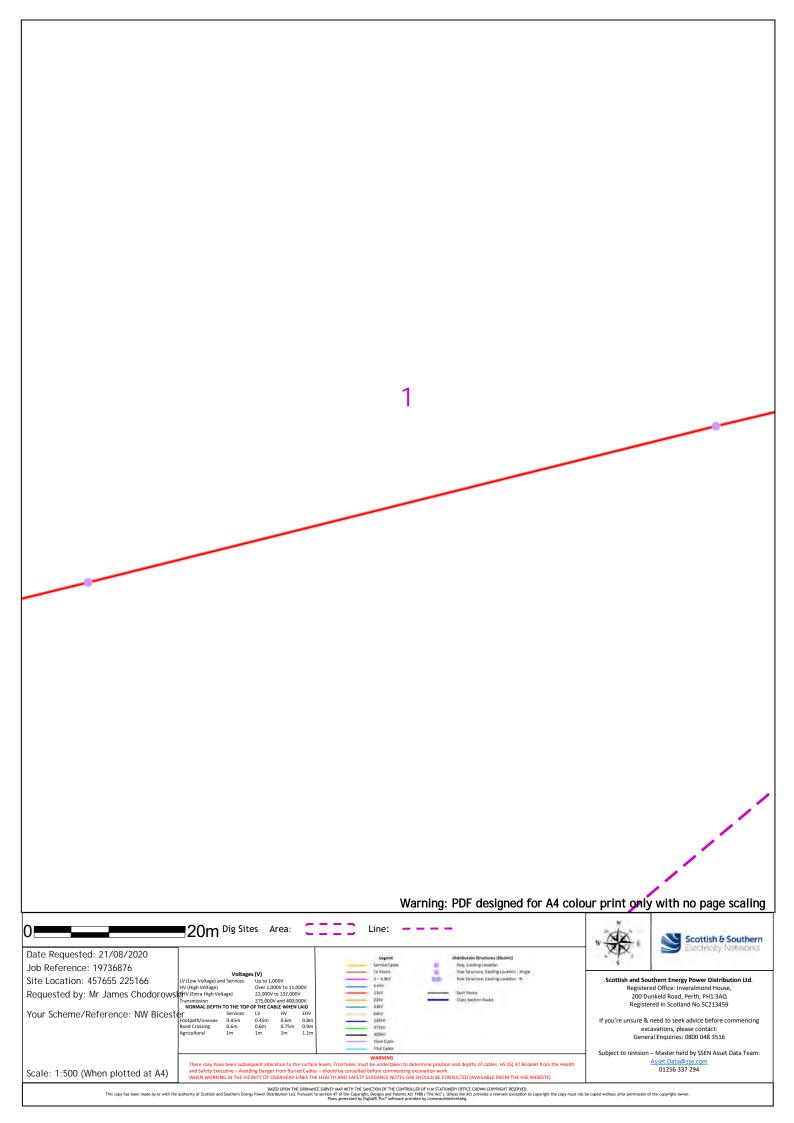


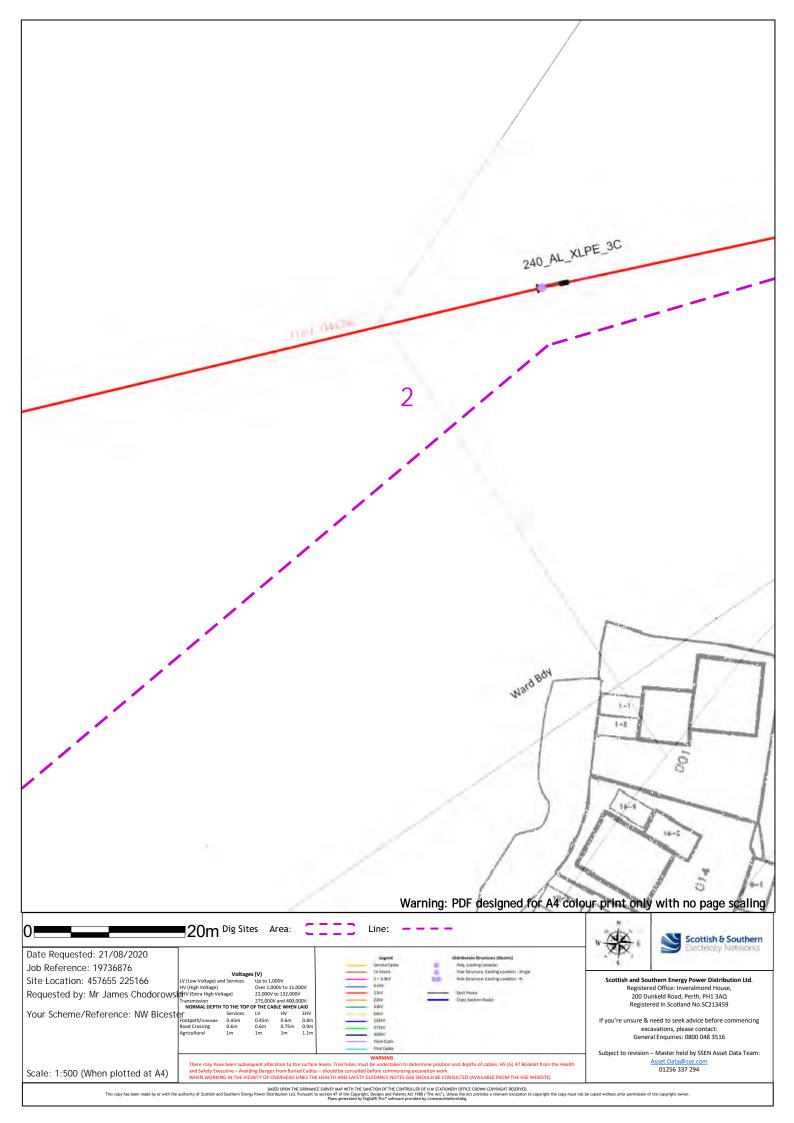


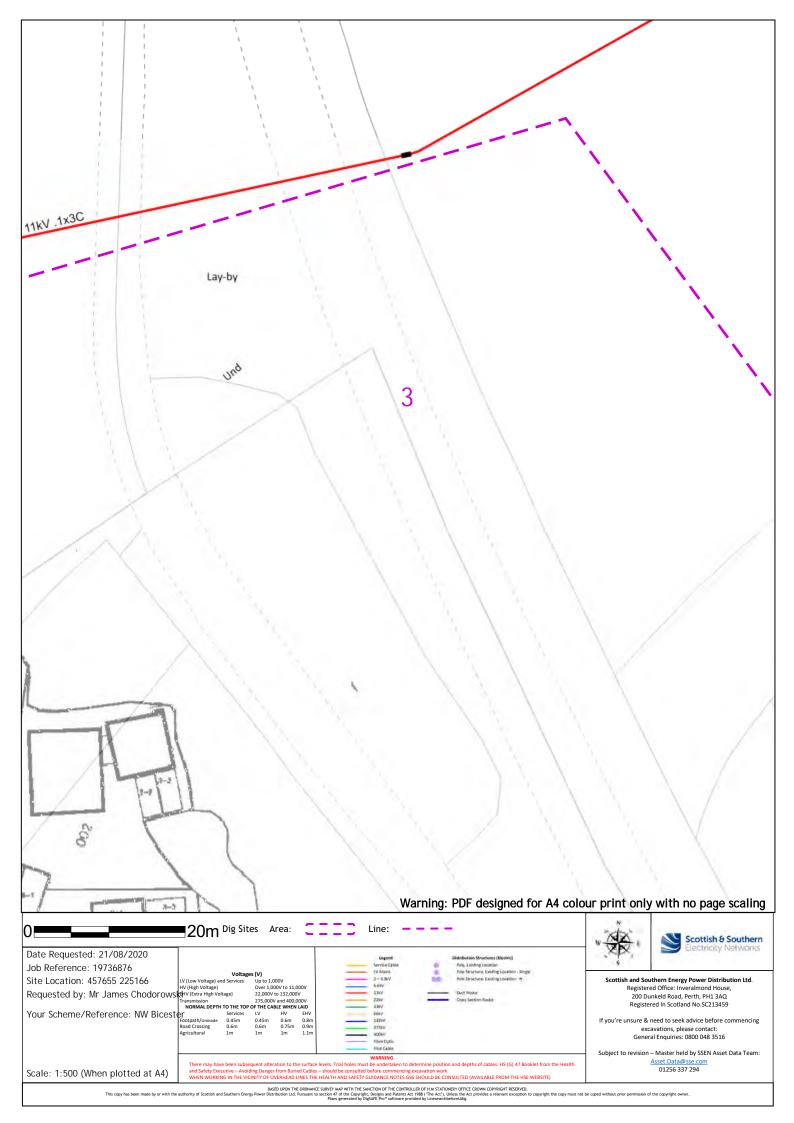


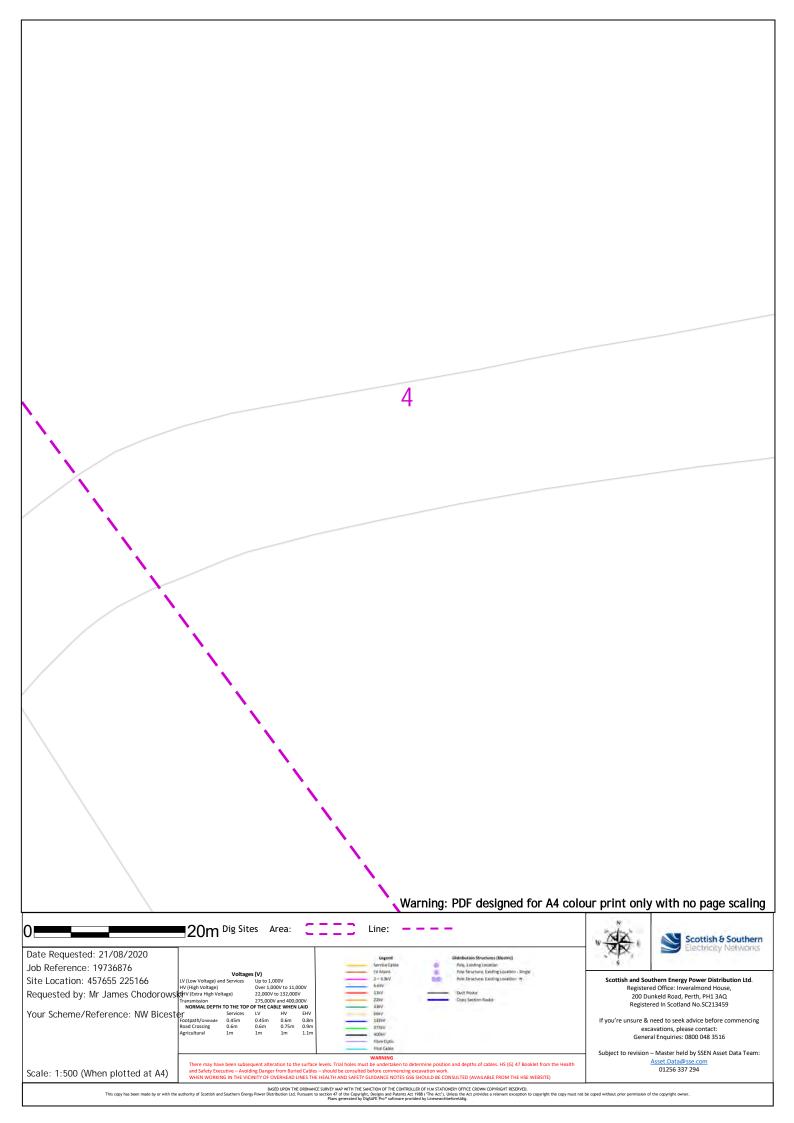


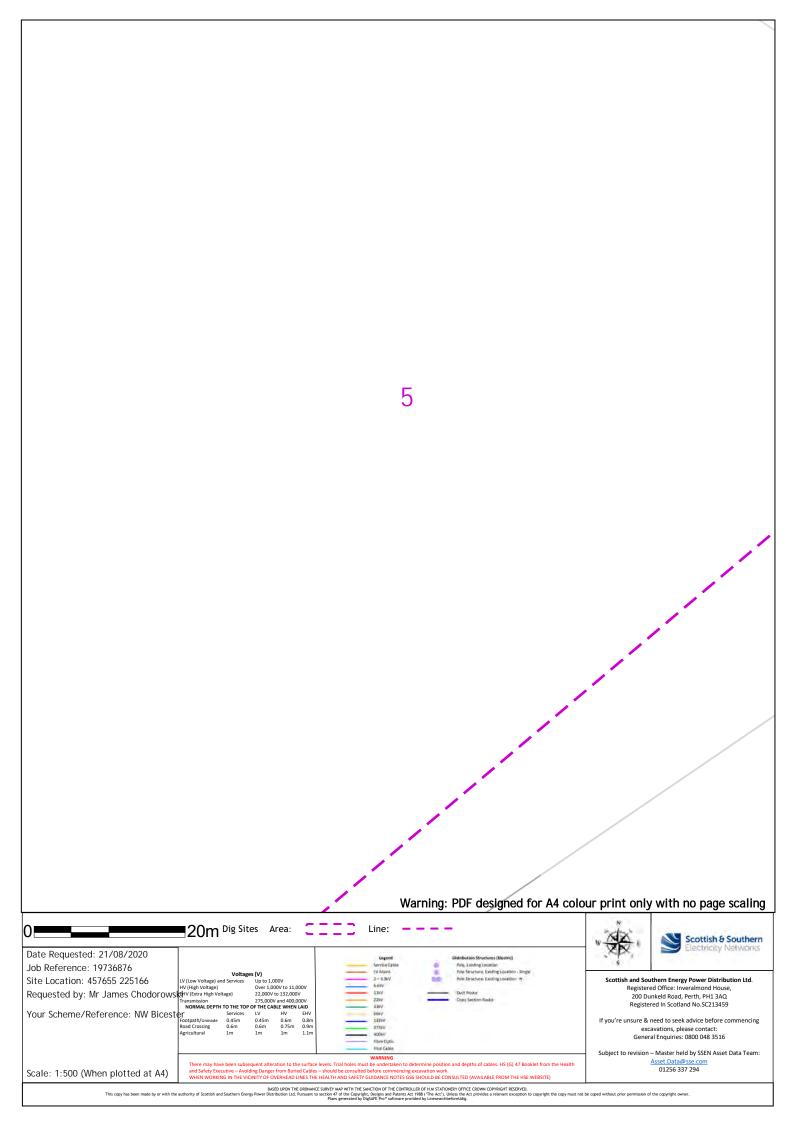


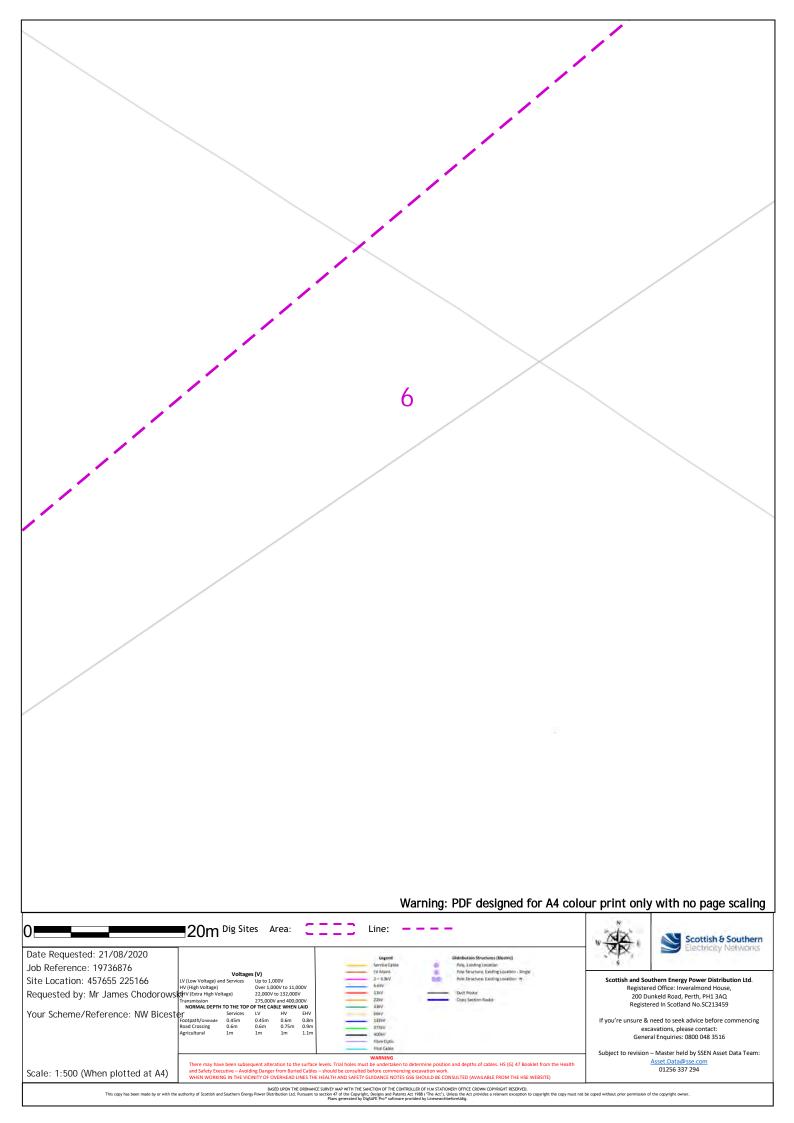


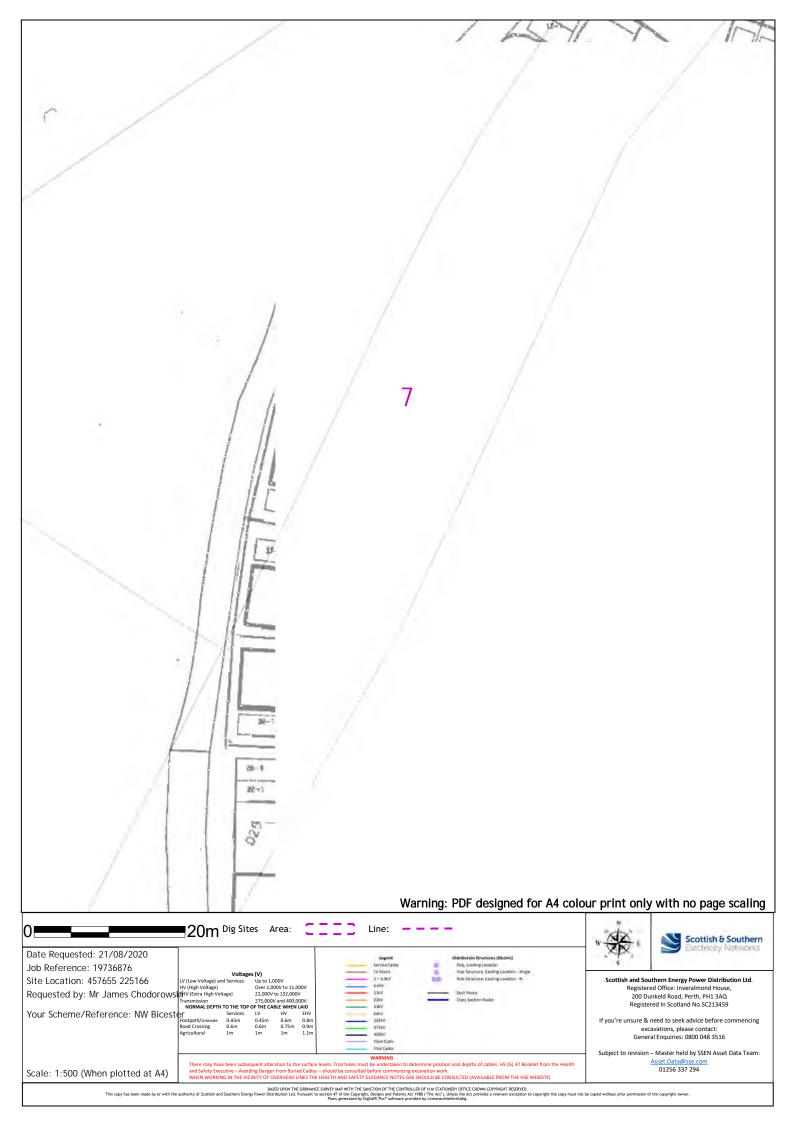


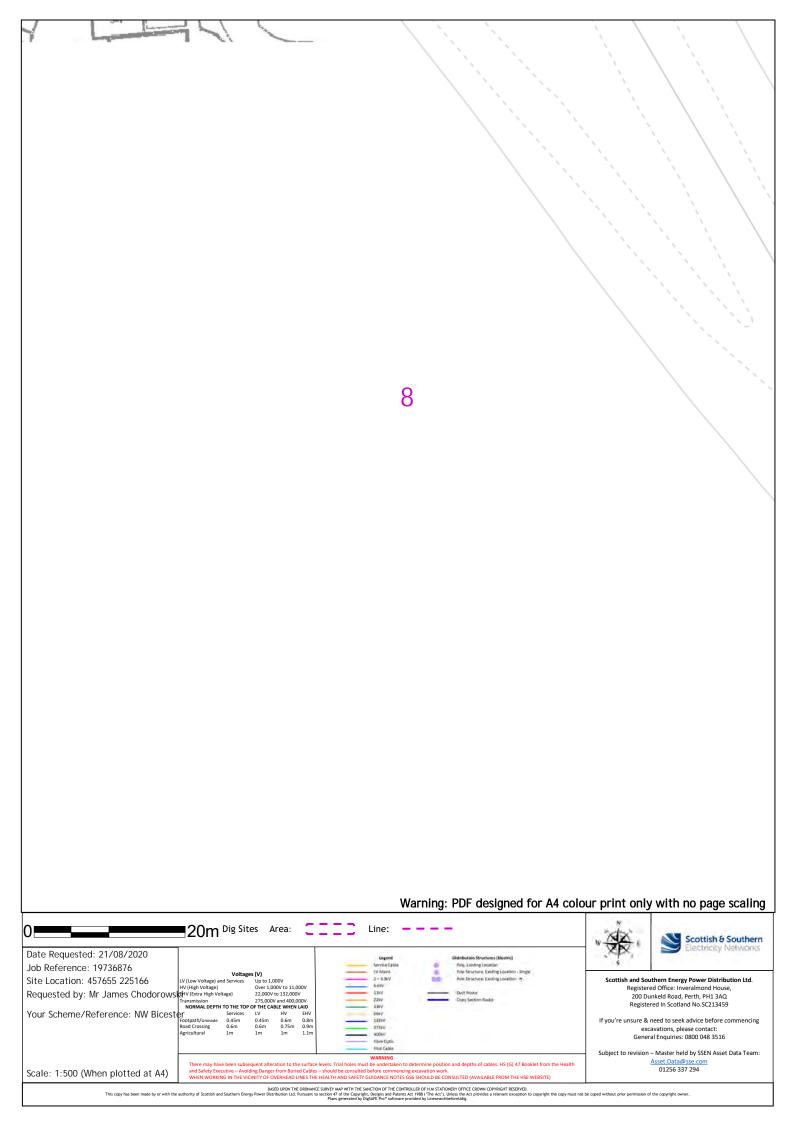


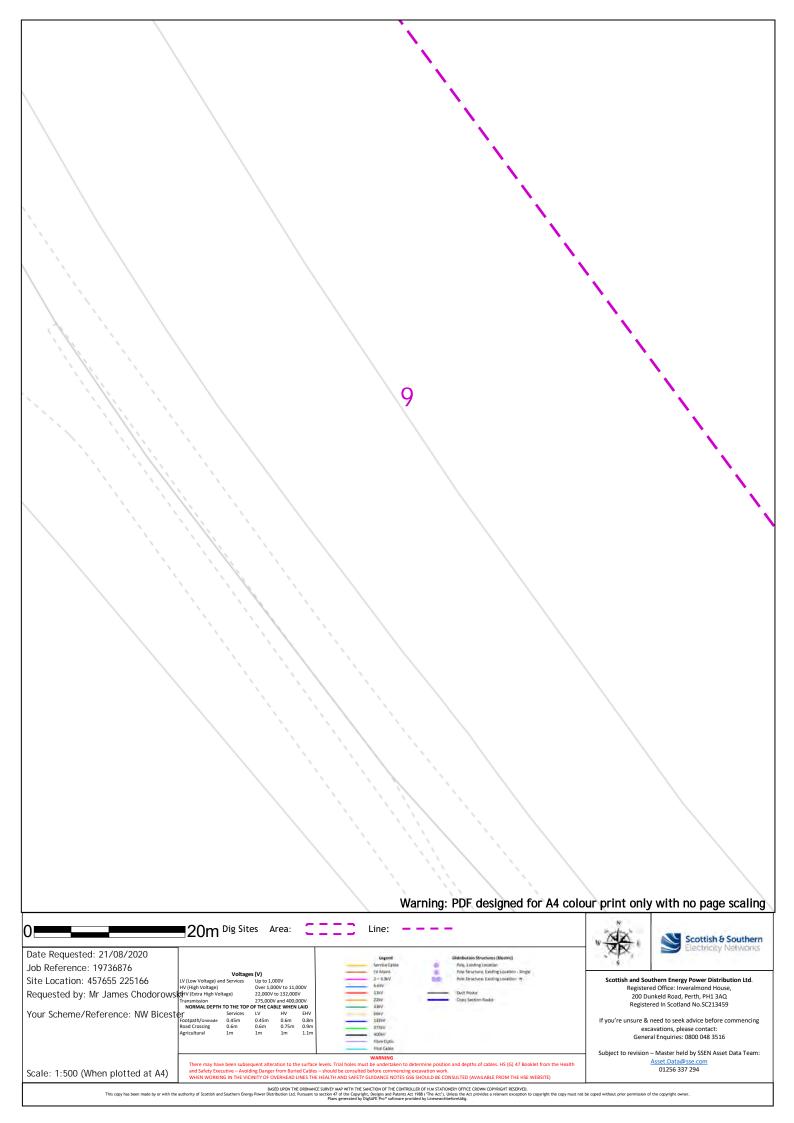


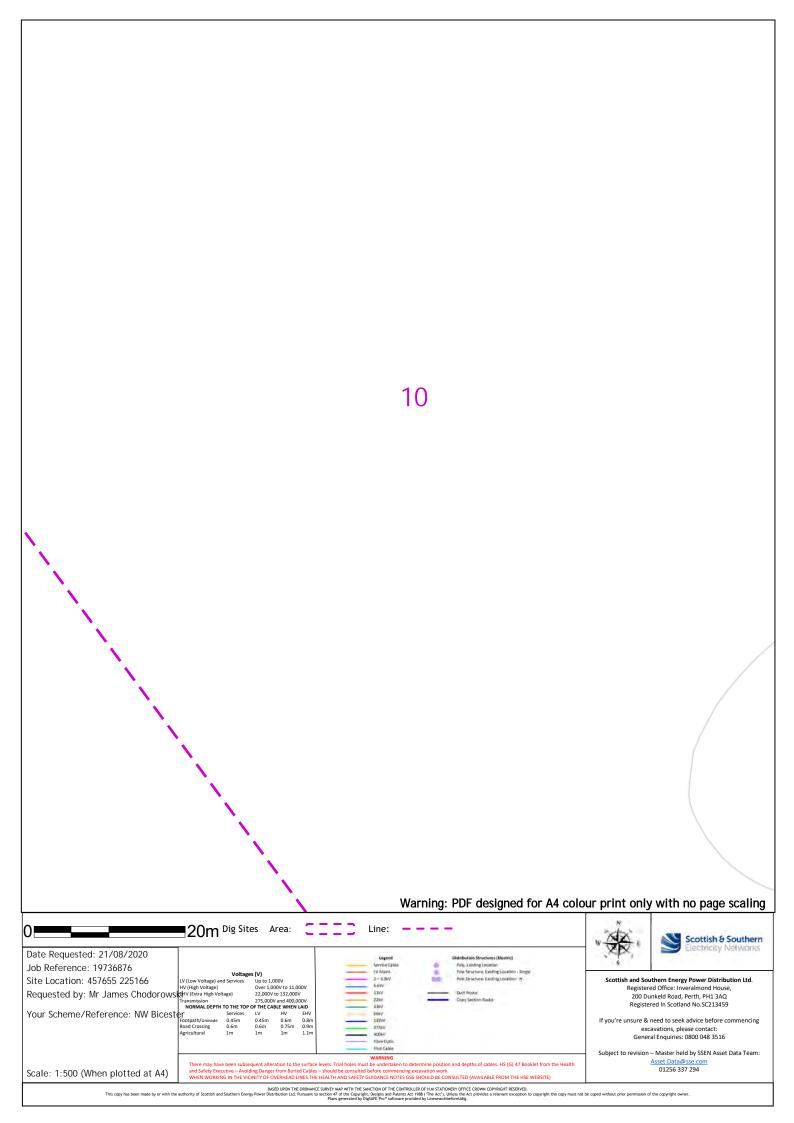






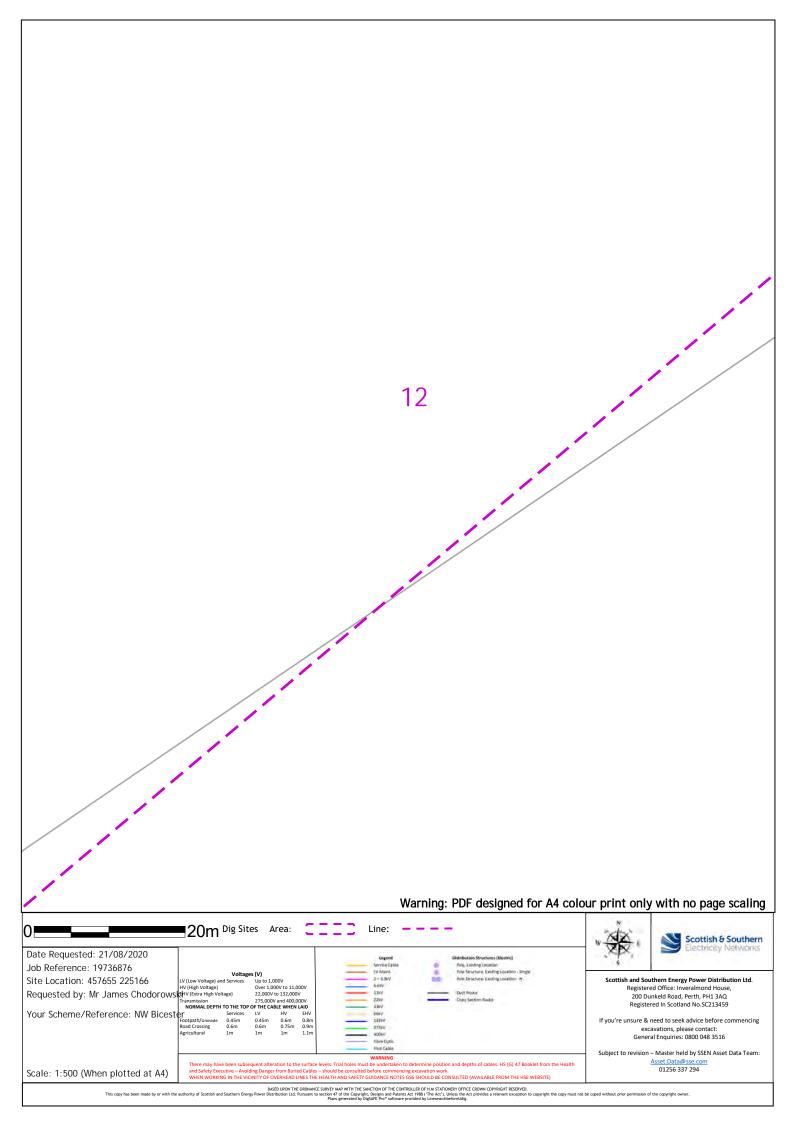


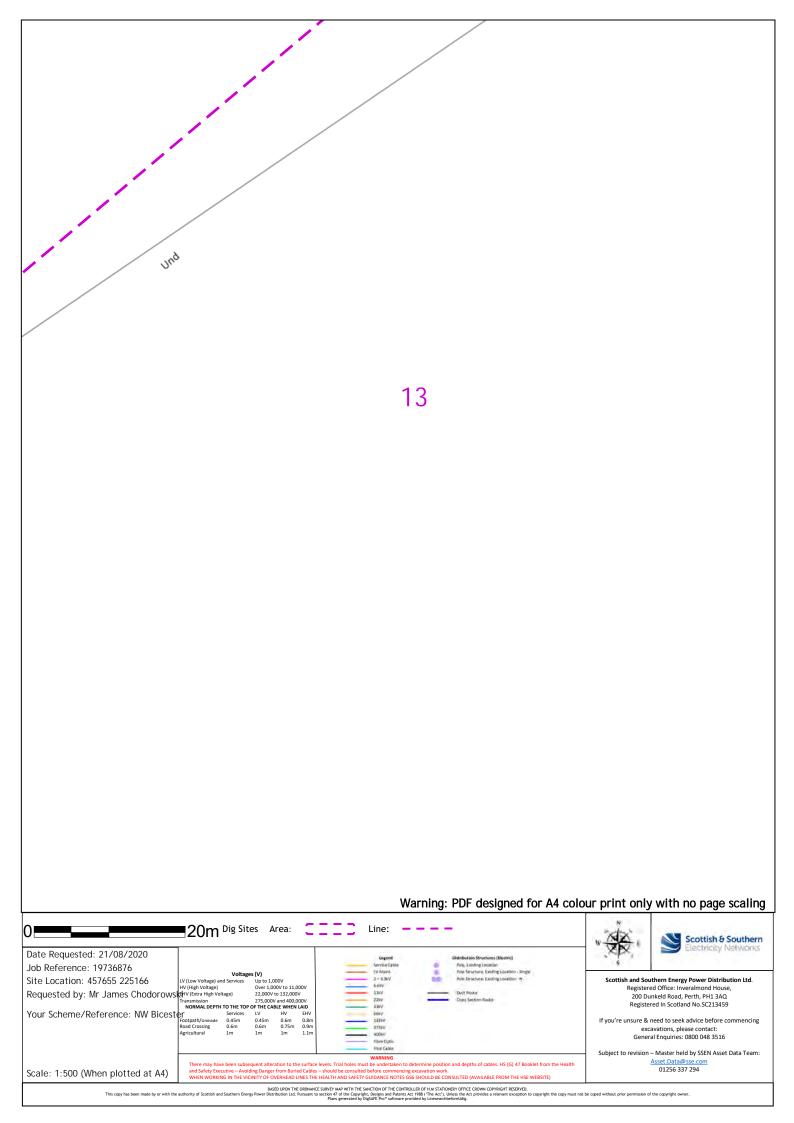


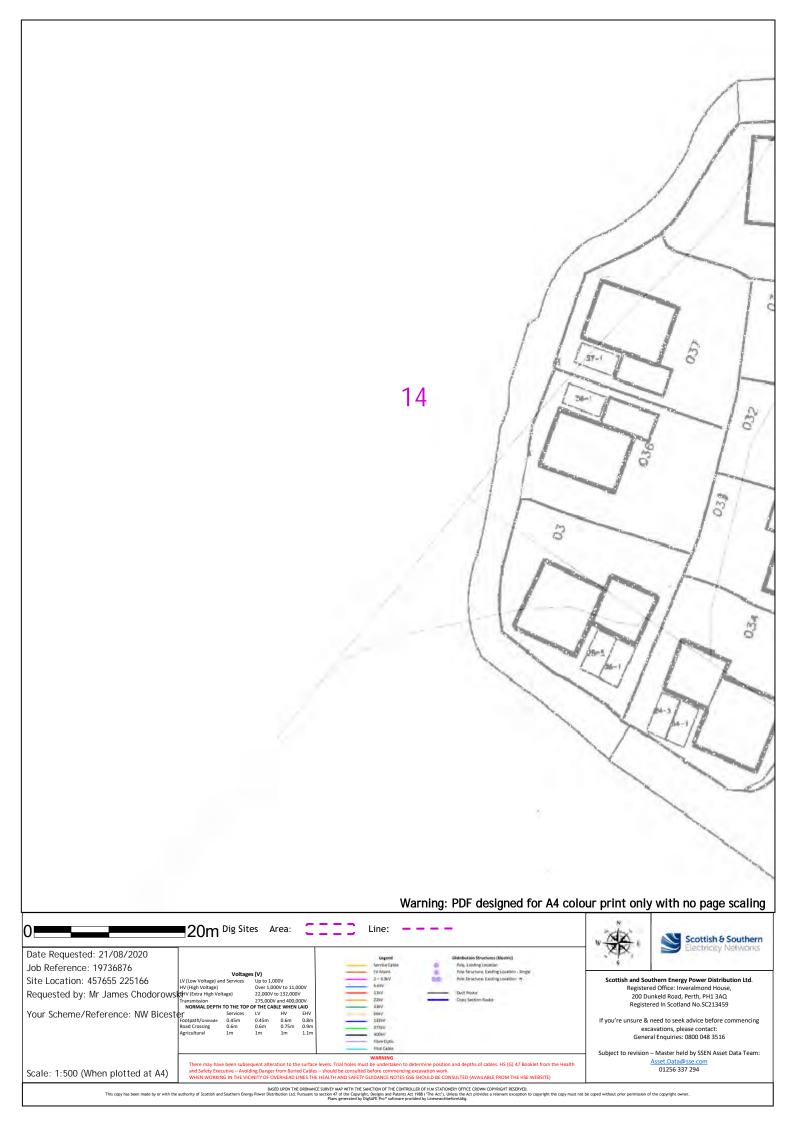


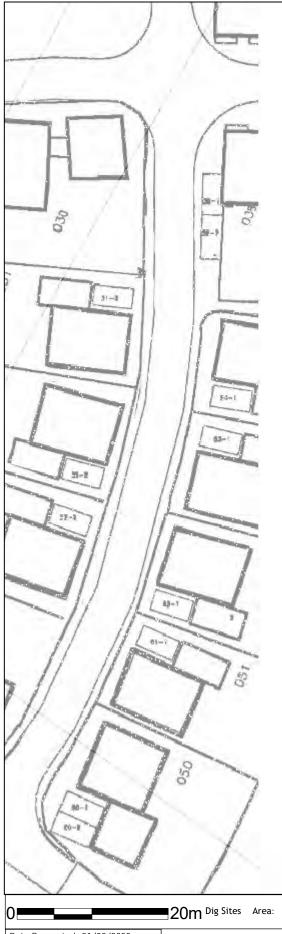
11 Warning: PDF designed for A4 colour print only with no page scaling 20m Dig Sites Area: Scottish & Southern Date Requested: 21/08/2020 Job Reference: 19736876 Site Location: 457655 225166

Requested by: Mr James Chodorows (All Live (Low Voltage) and Services HV (High Voltage) and Services Footpath/Unimade Od Sm (Rod Crossing Agricultural 1m) Up to 1,000V Over 1,000V to 11,000V 22,000V to 132,000V 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 01256 337 294 Scale: 1:500 (When plotted at A4)



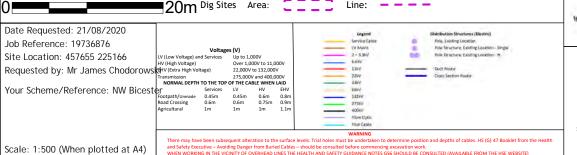






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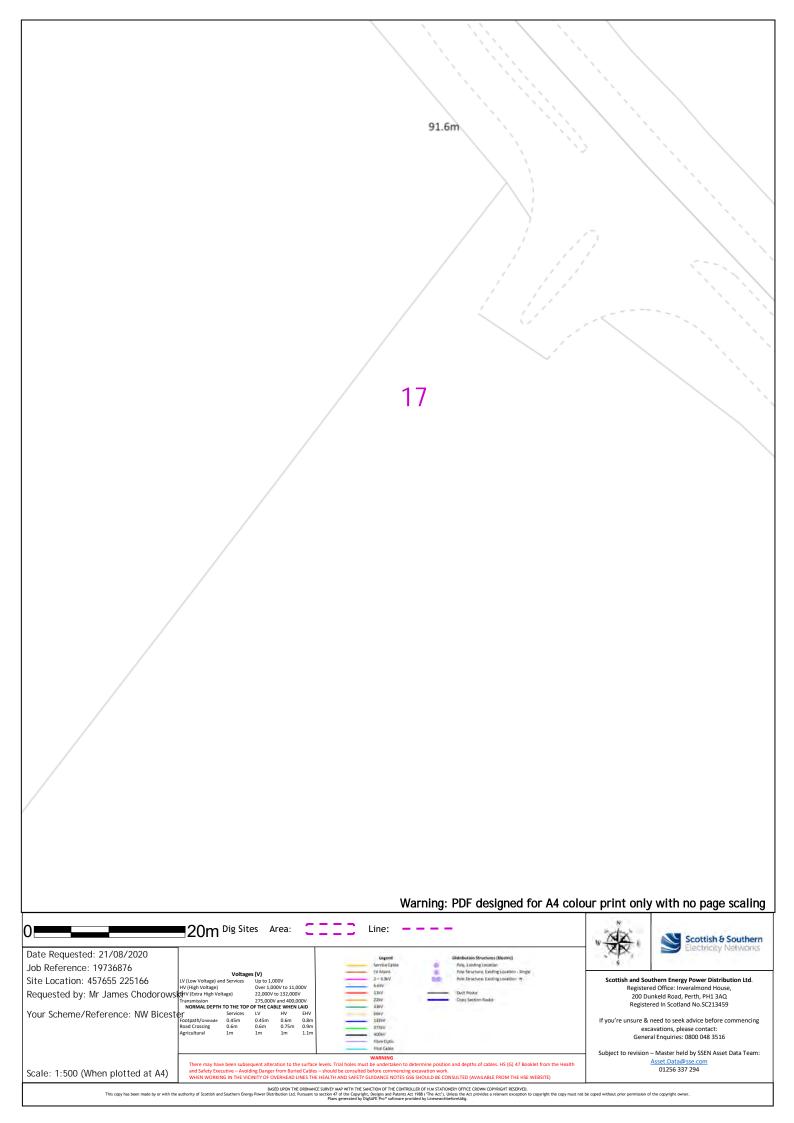
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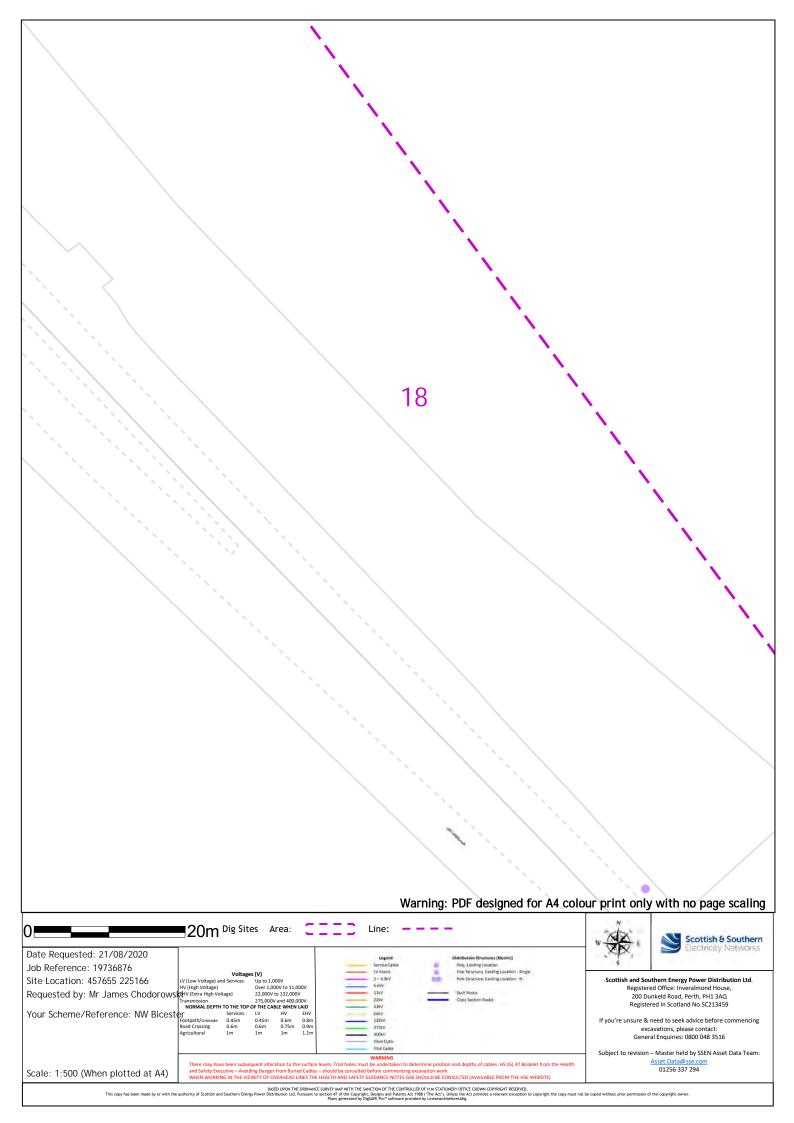
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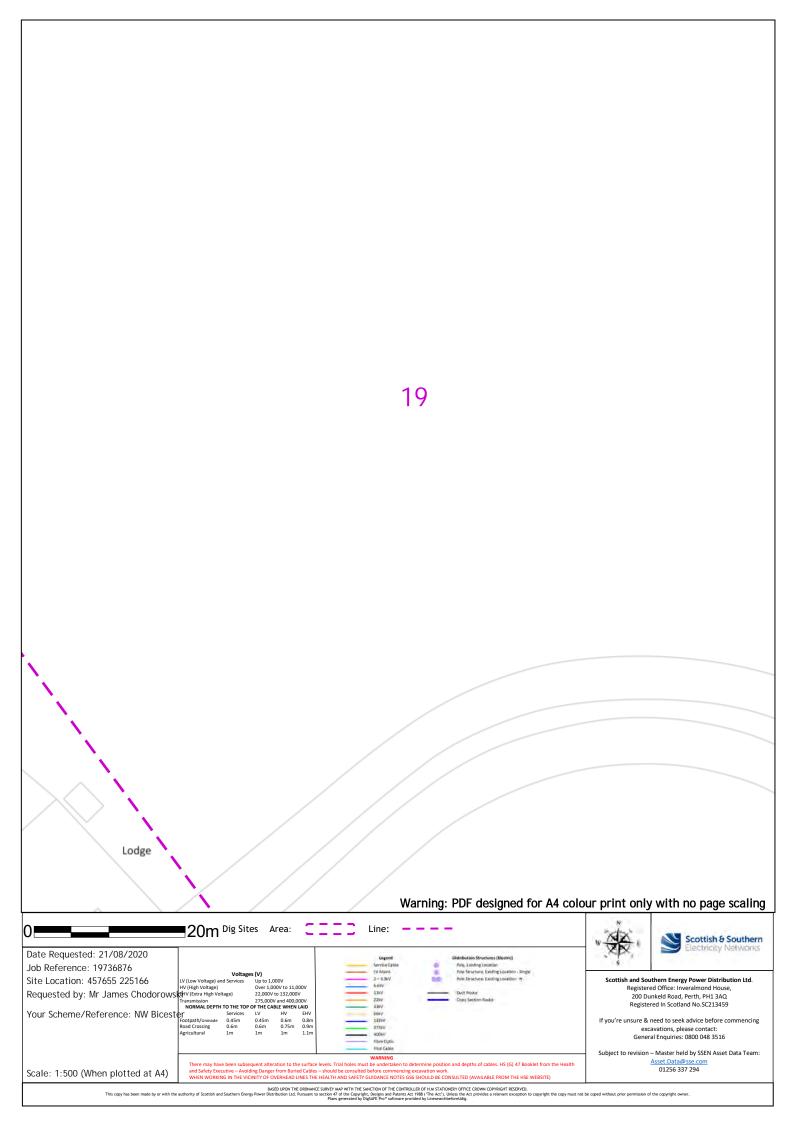
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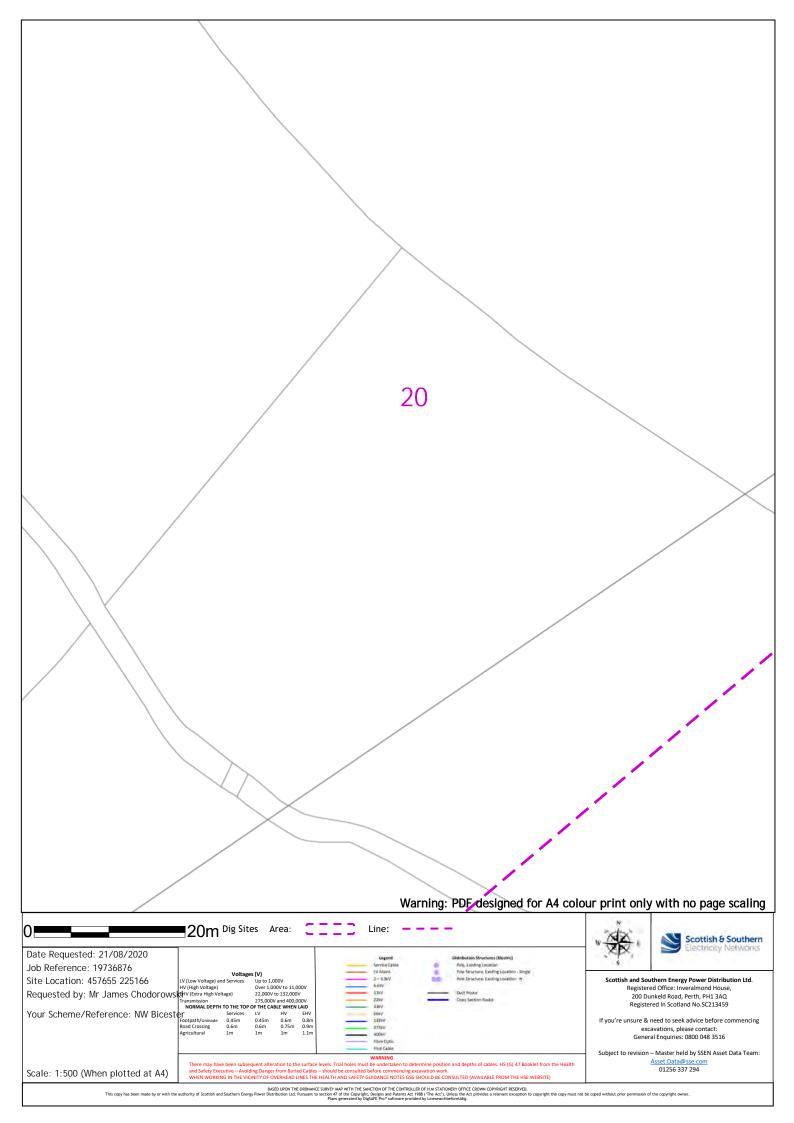
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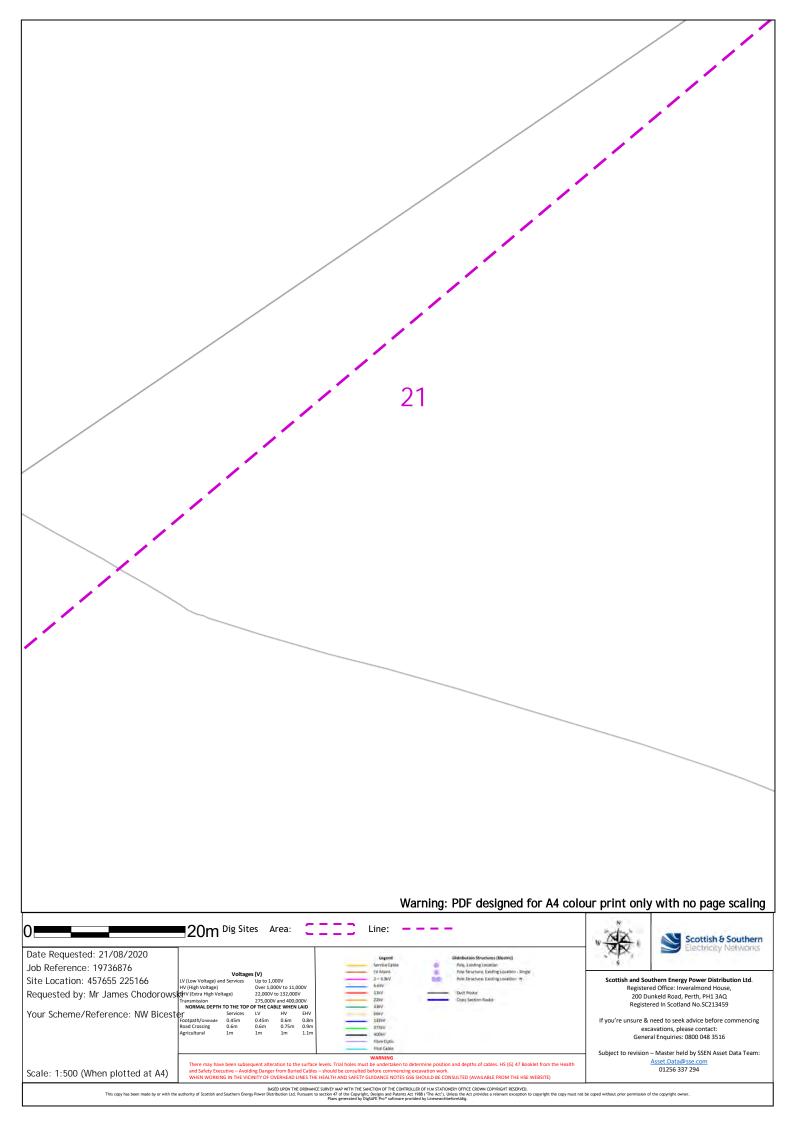
16 Warning: PDF designed for A4 colour print only with no page scaling ■20m Dig Sites Area: Line: Scottish & Southern Date Requested: 21/08/2020 Job Reference: 19736876 SILE Location: 457655 225166 LV (Low Voltage) and Services Hy (High Voltage) Requested by: Mr James Chodorows Hy (High Voltage) Transmission Scottish and Southern Energy Power Distribution Ltd.
Registered Office: Inveralmond House,
200 Dunkeld Road, Perth, PH1 3AQ
Registered In Scotland No.SC213459 22,000V to 132,000V Your Scheme/Reference: NW Bicester Footpath/u 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 01256 337 294 Scale: 1:500 (When plotted at A4)

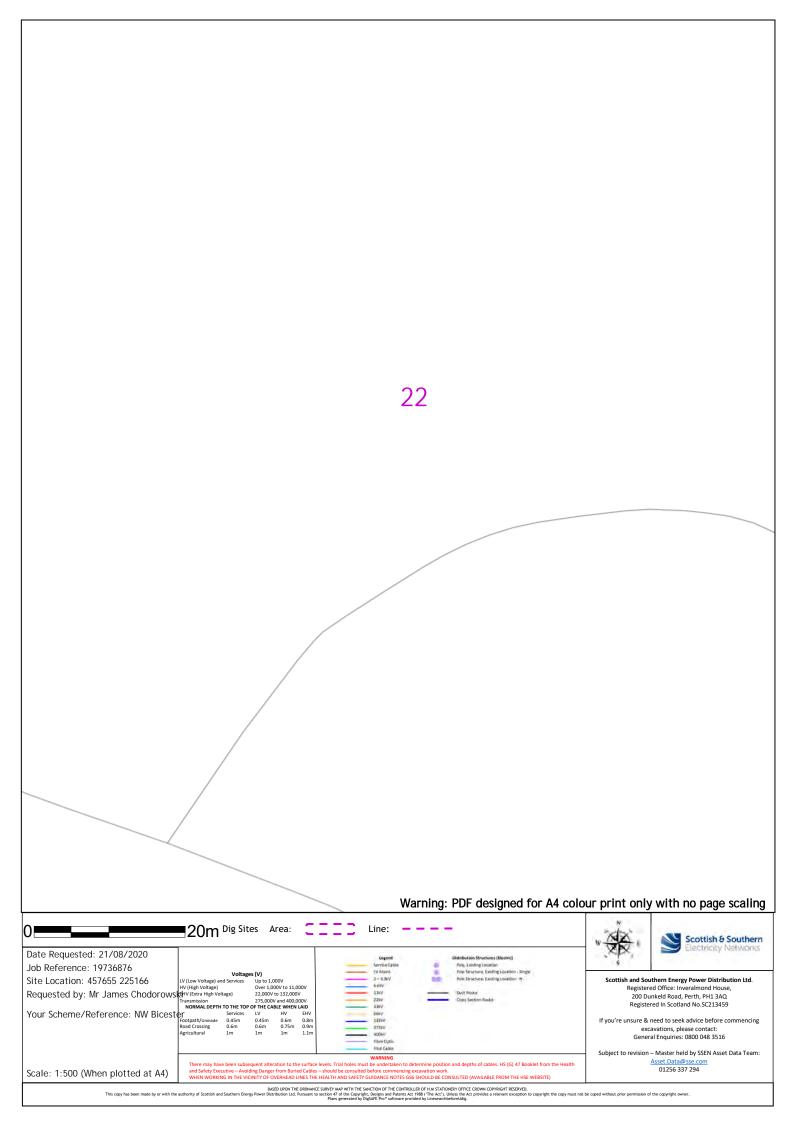


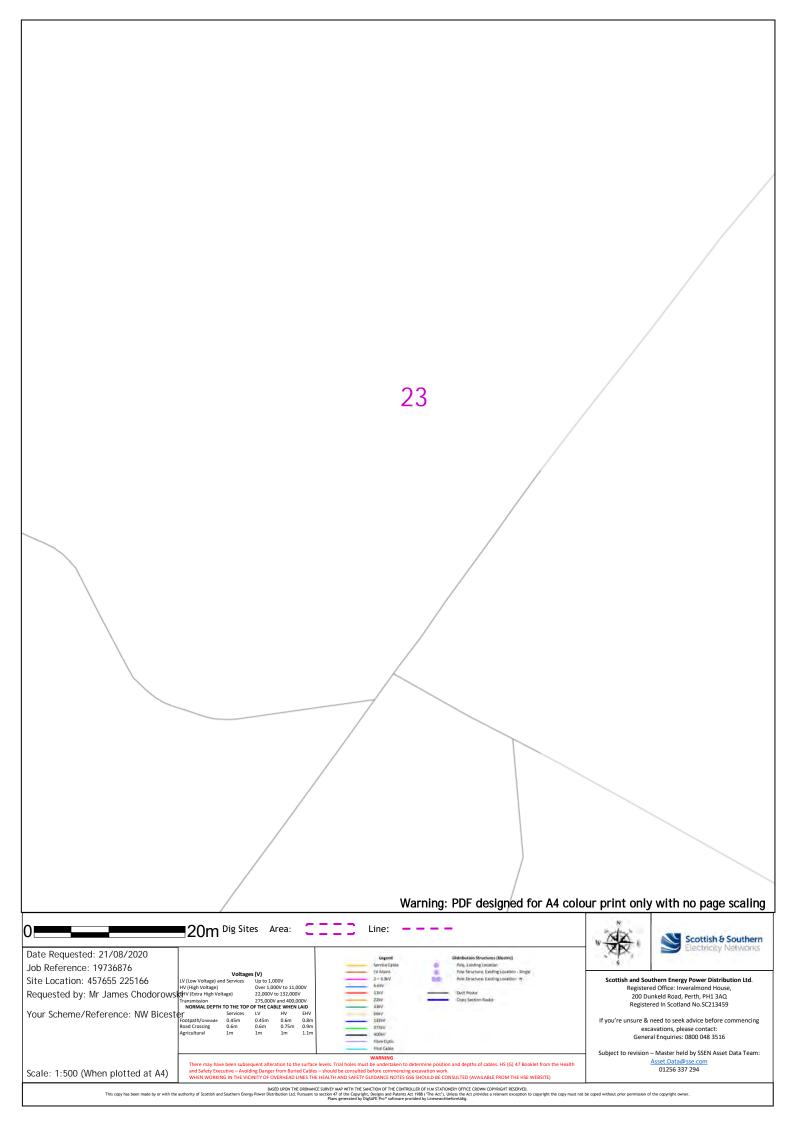






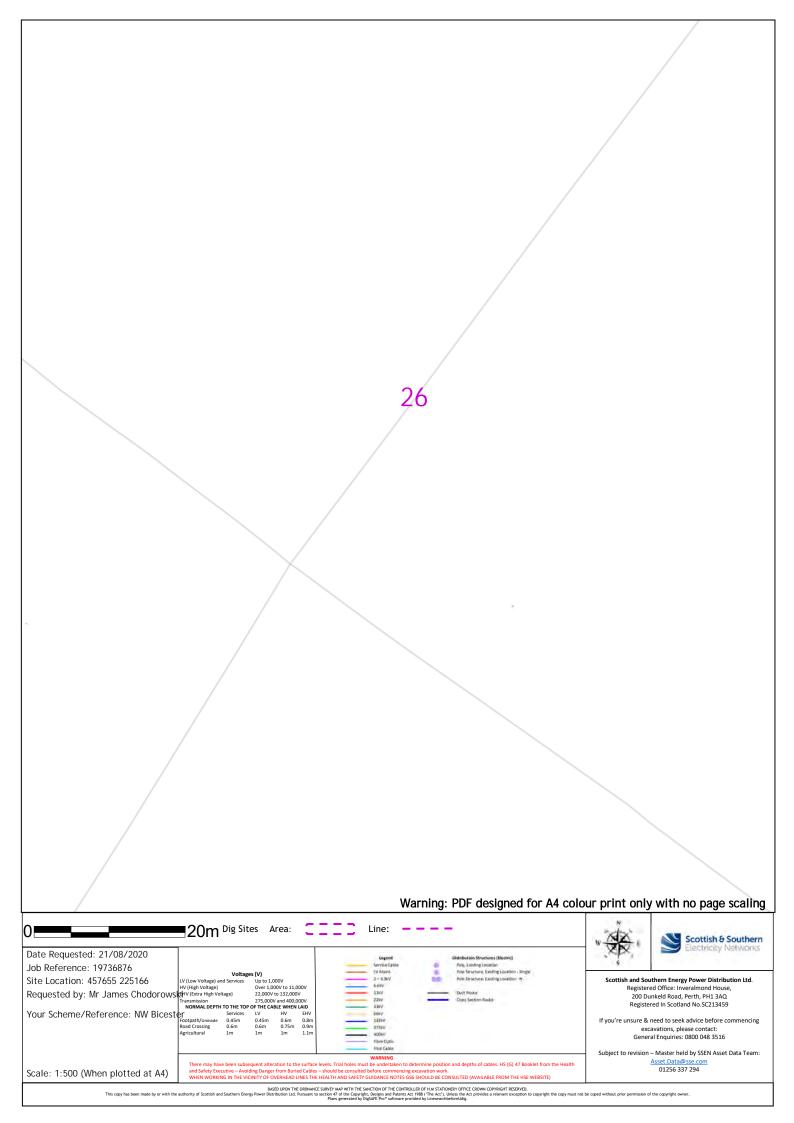






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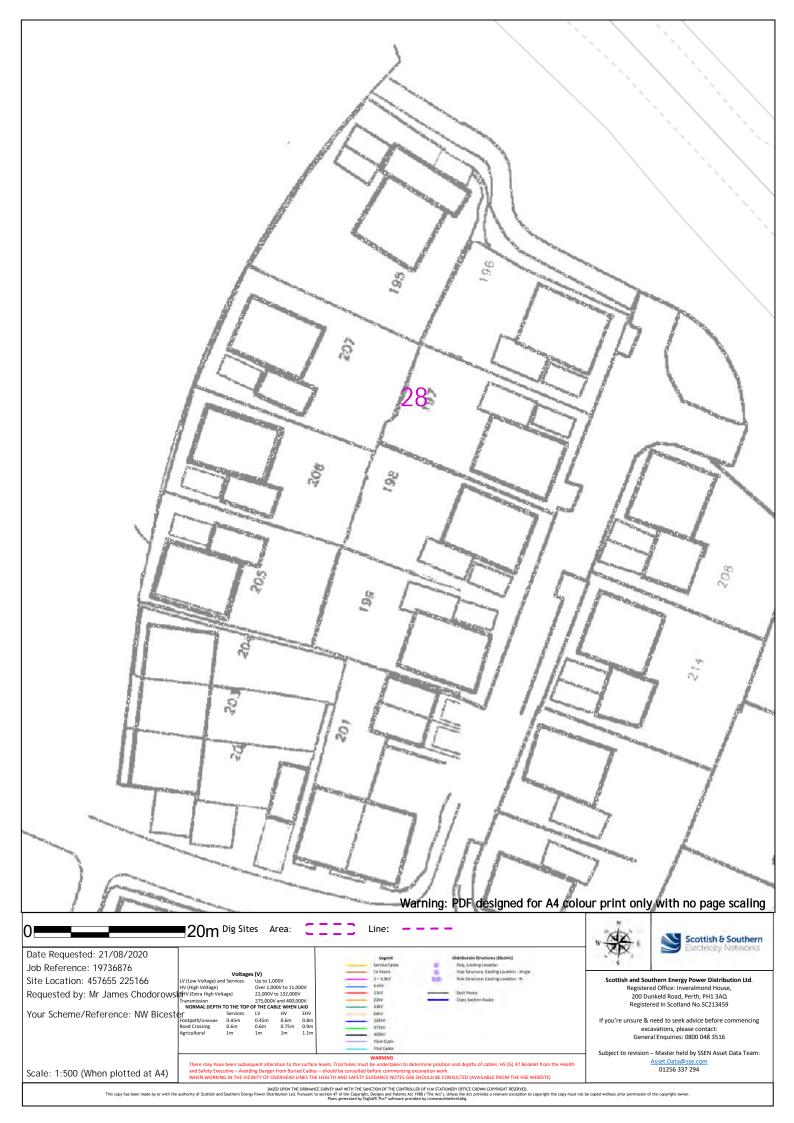
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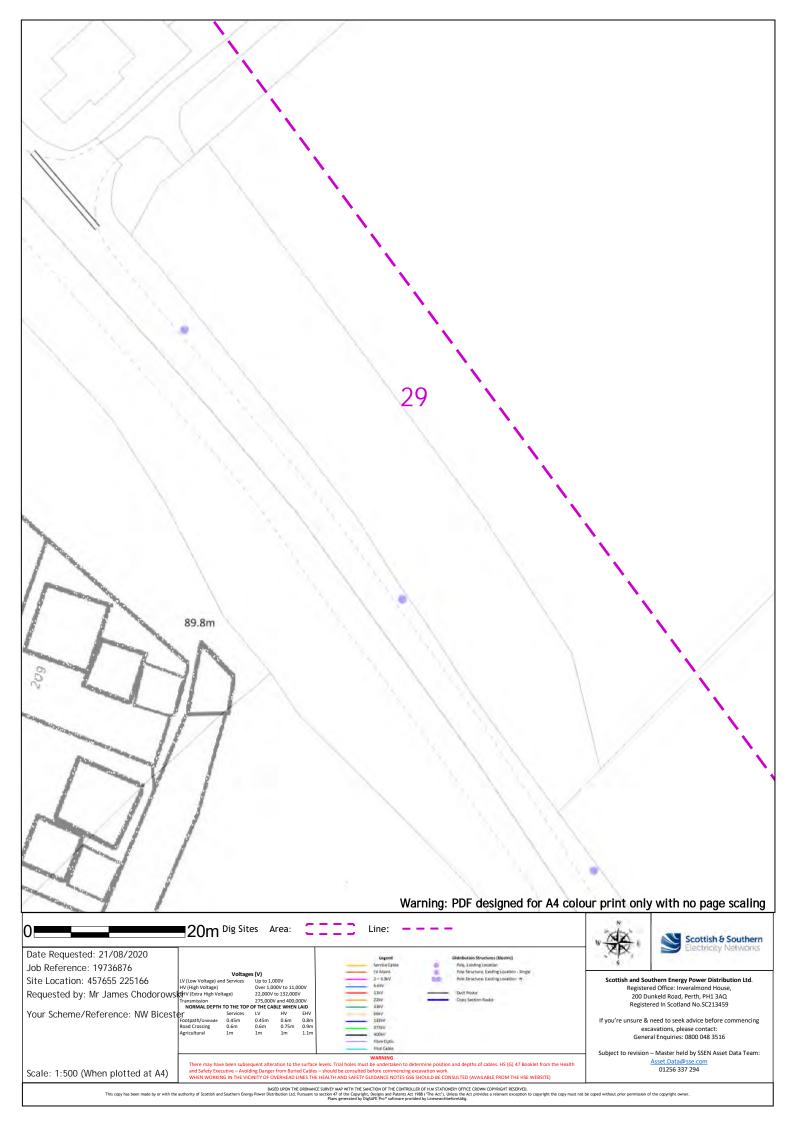


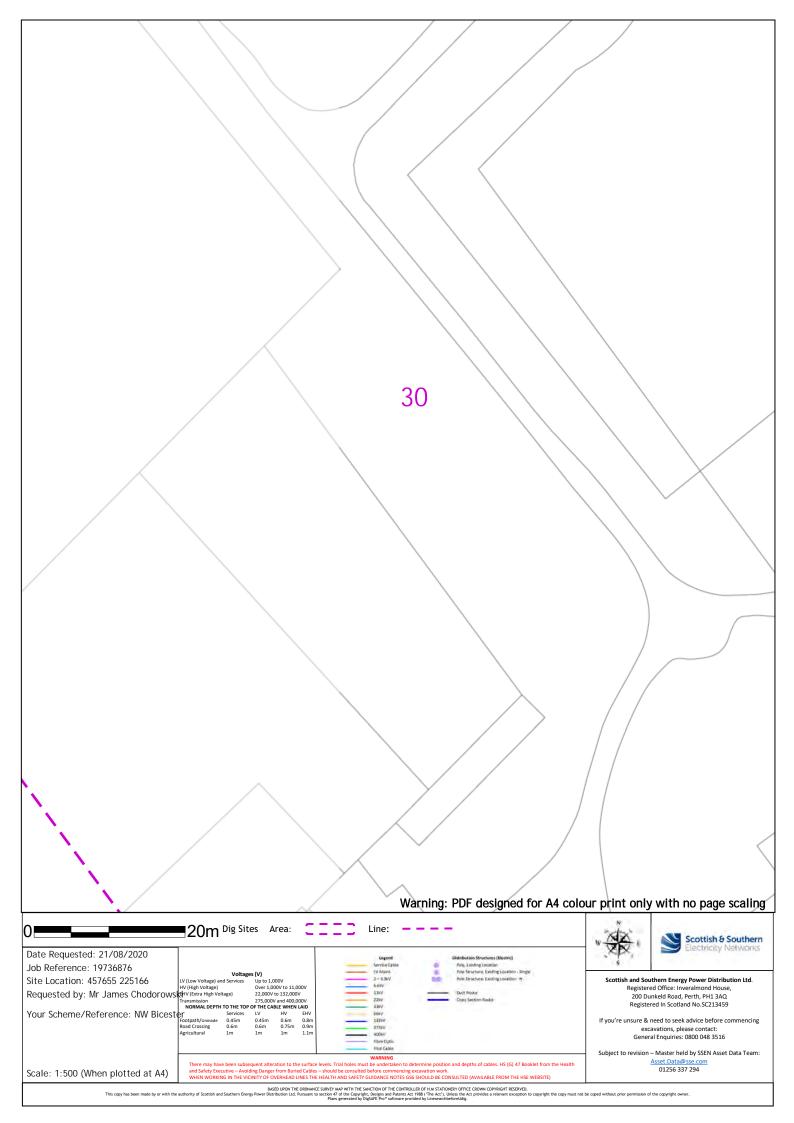
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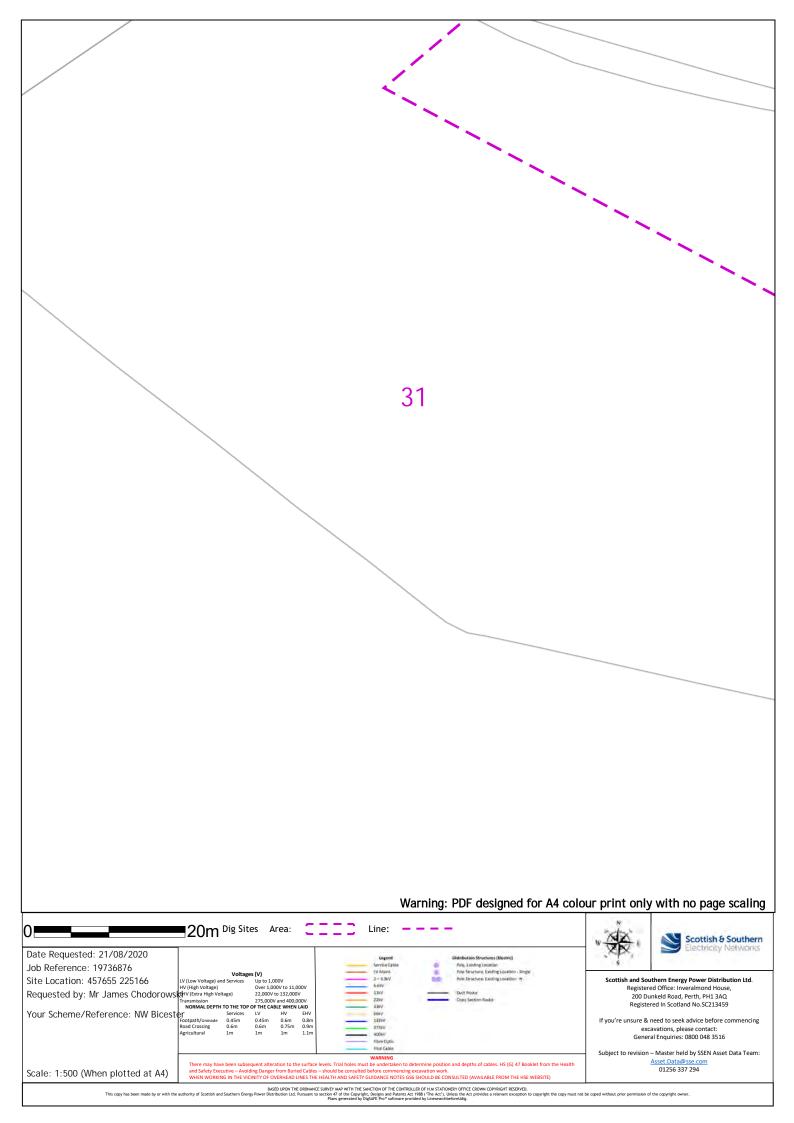
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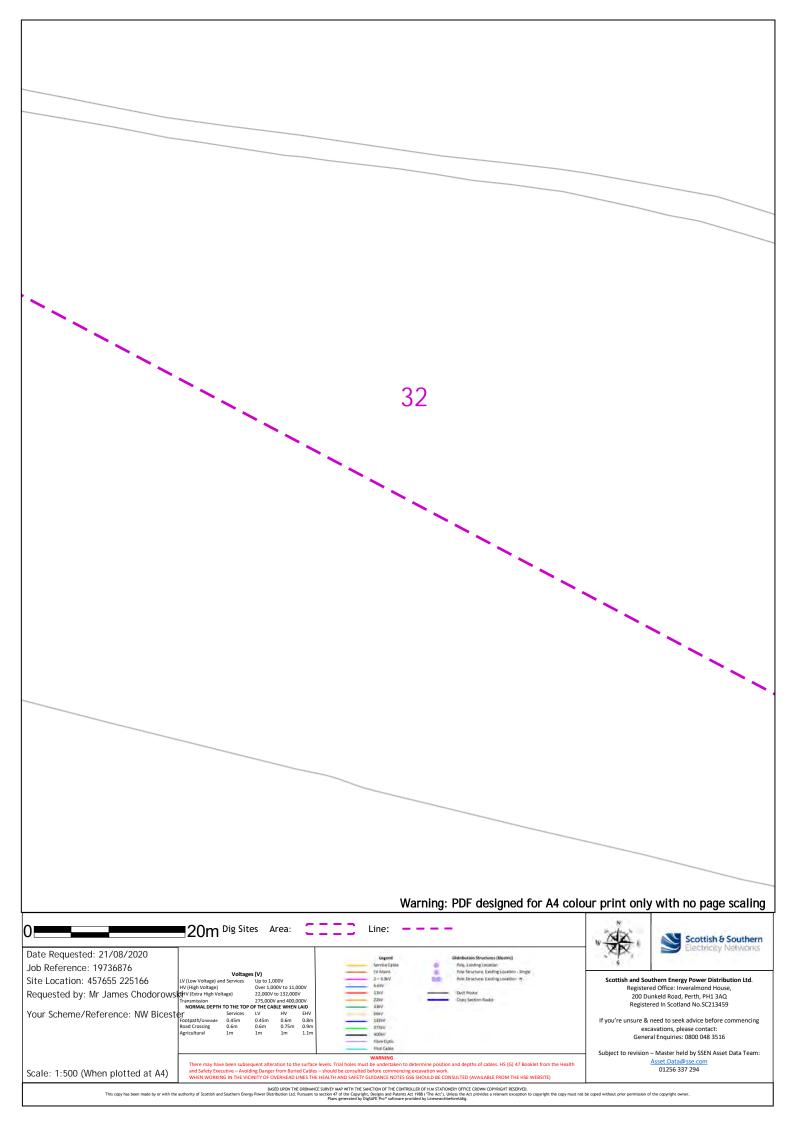
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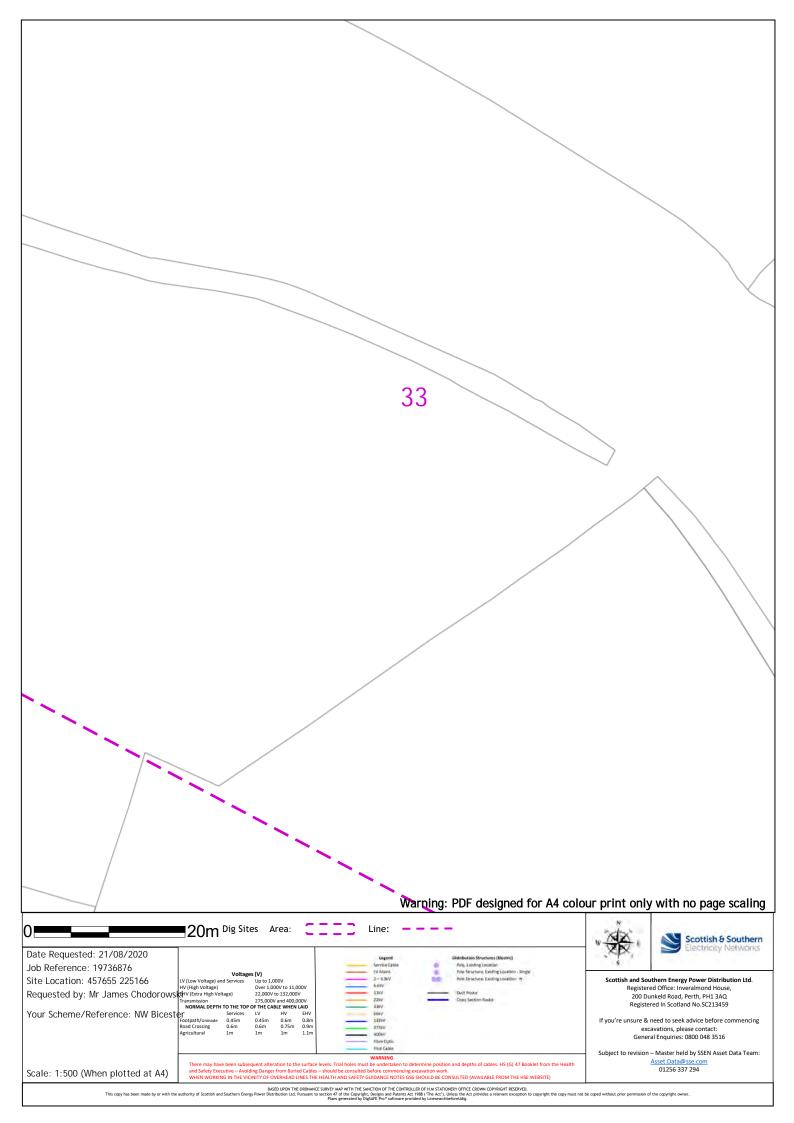


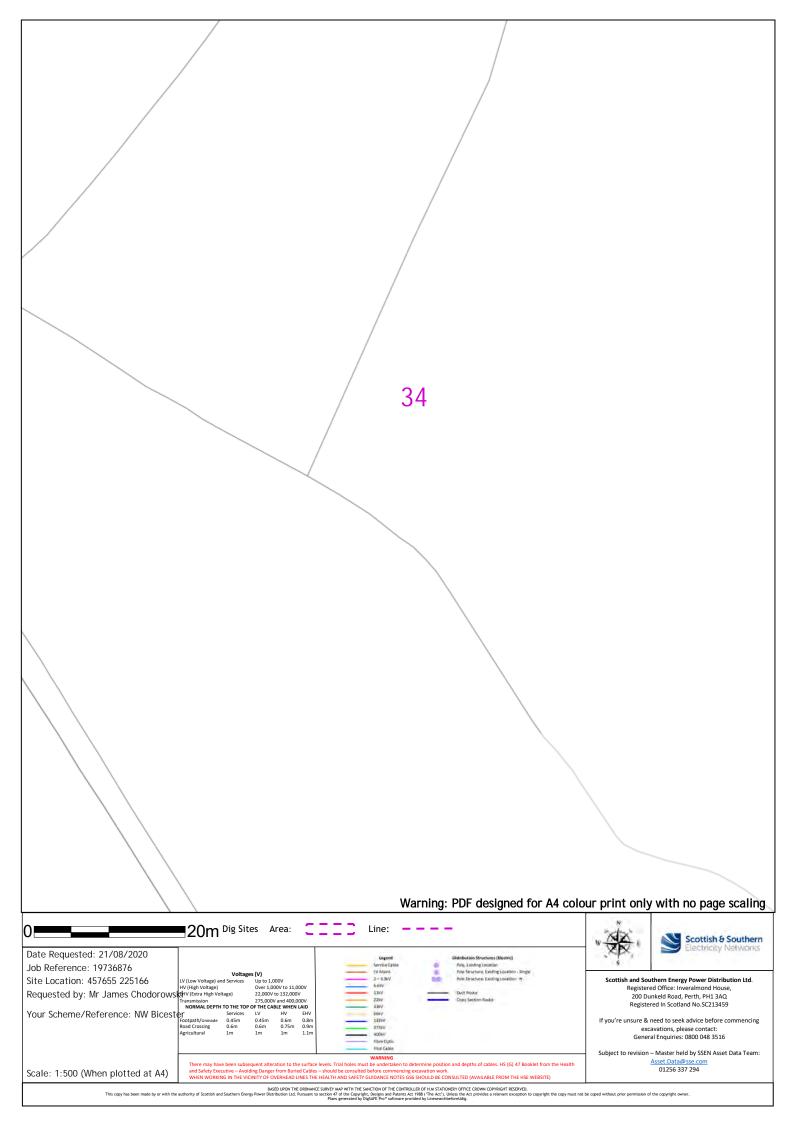


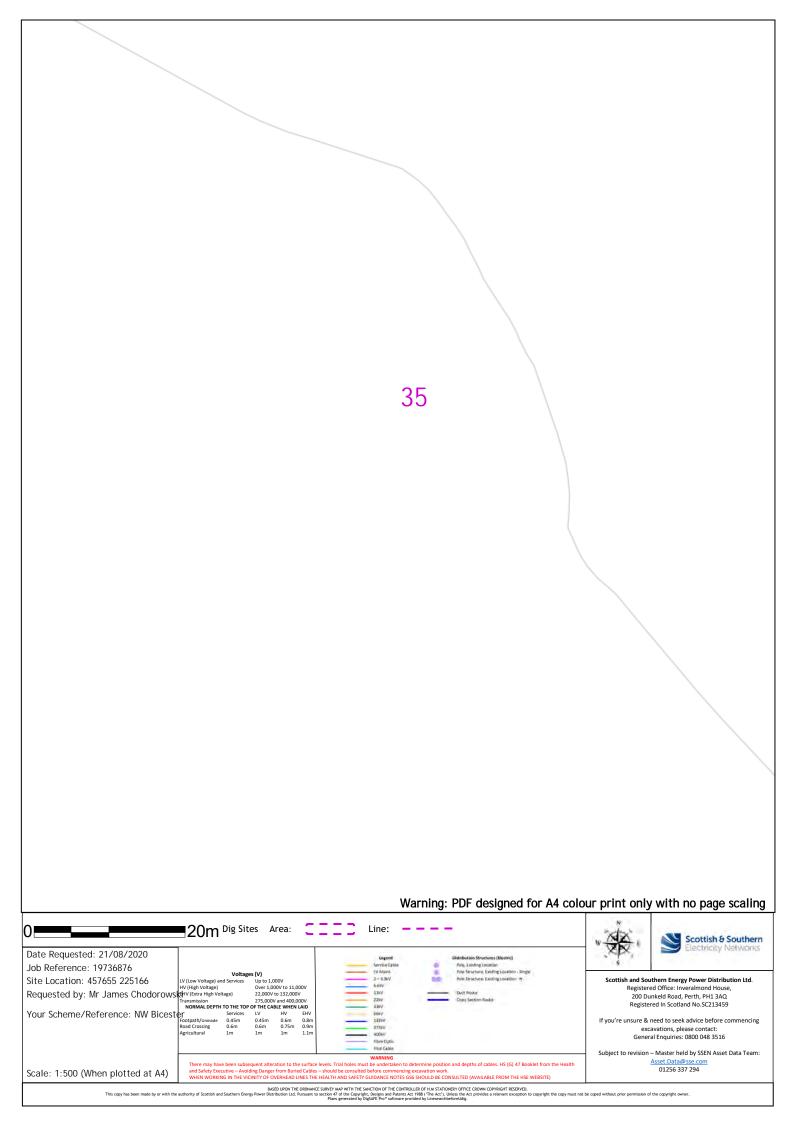


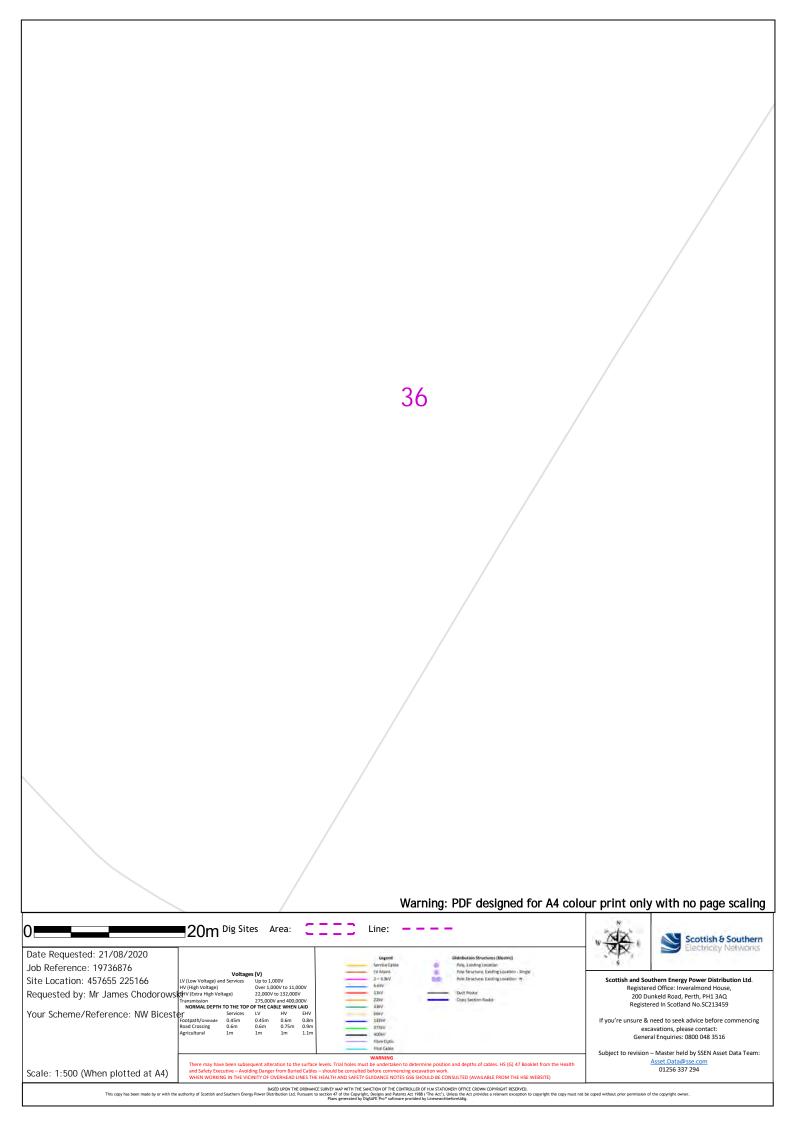








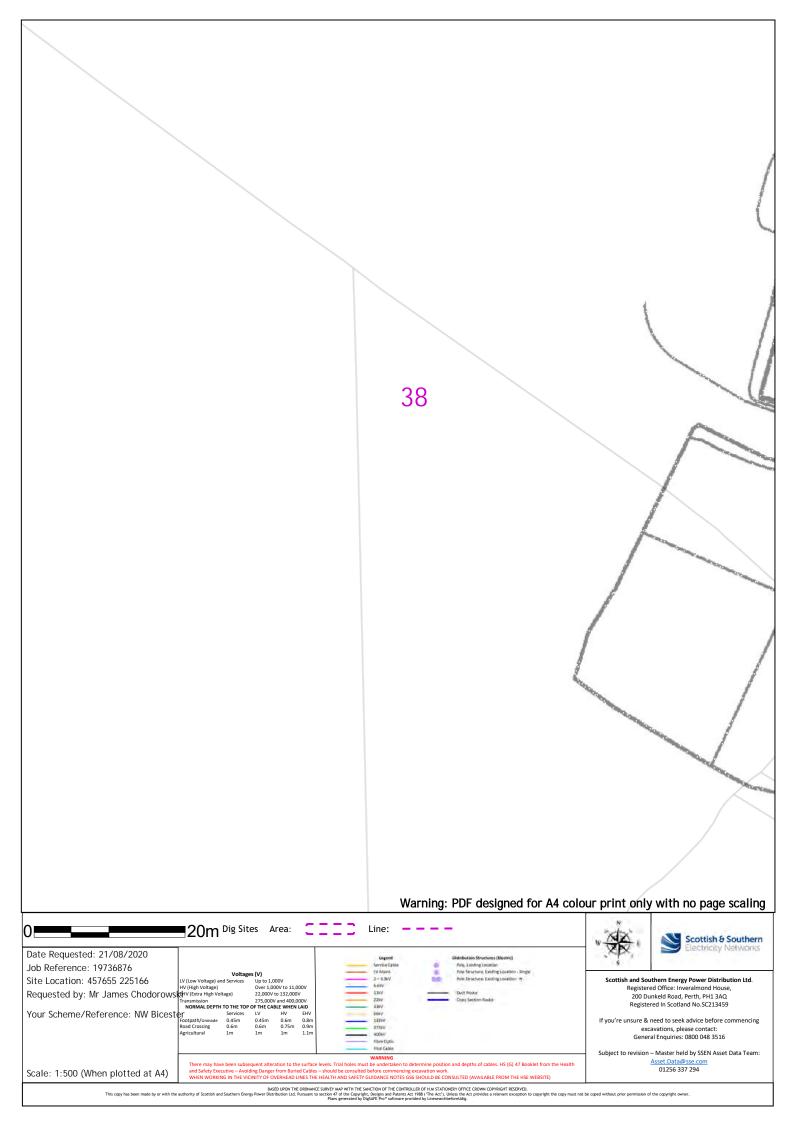




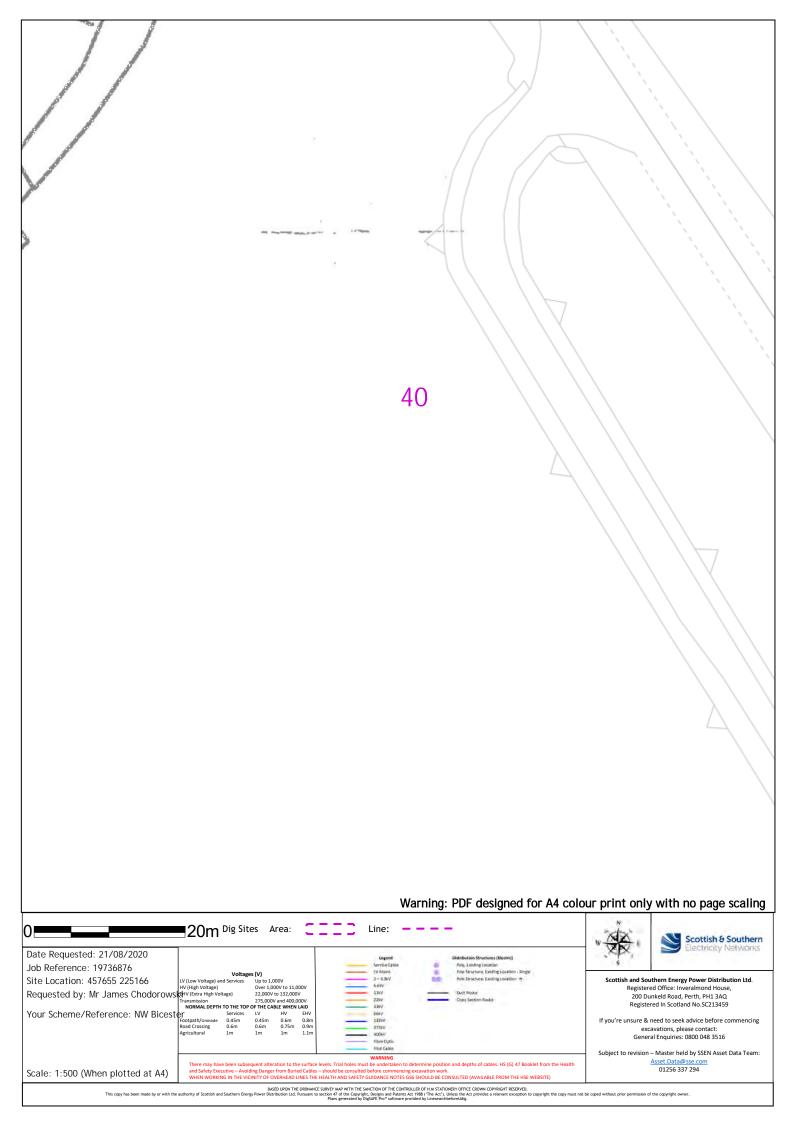
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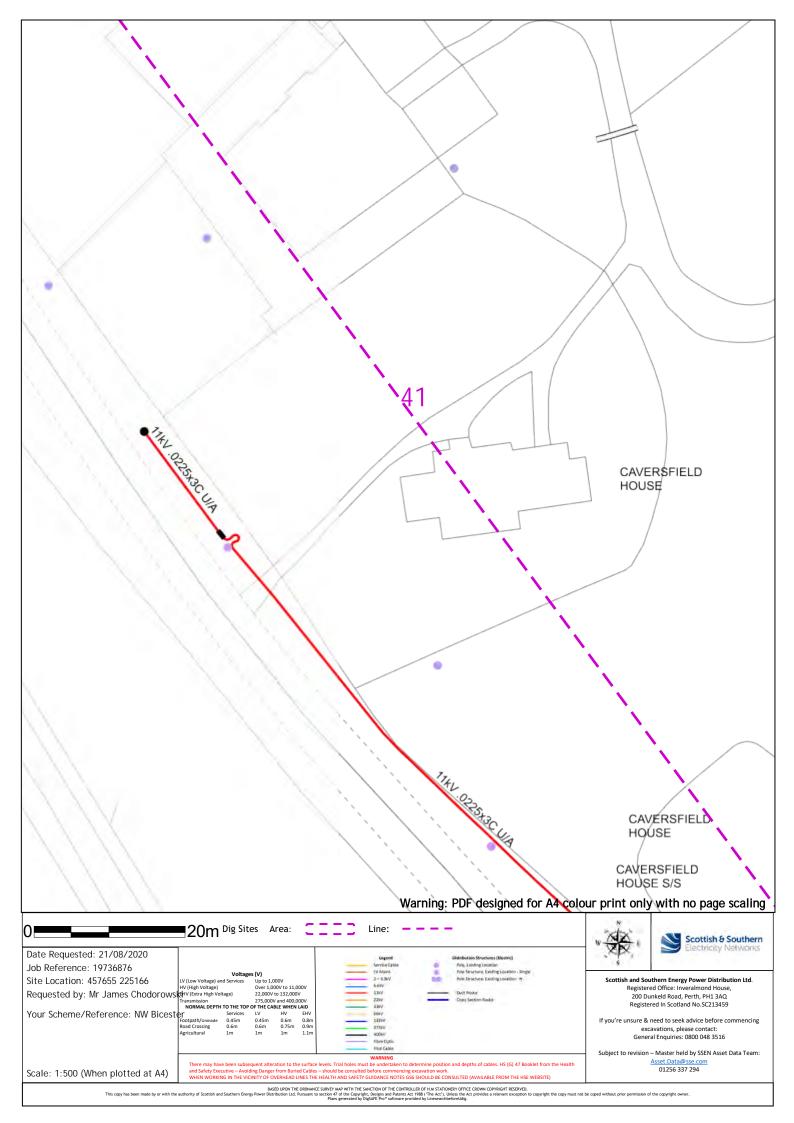
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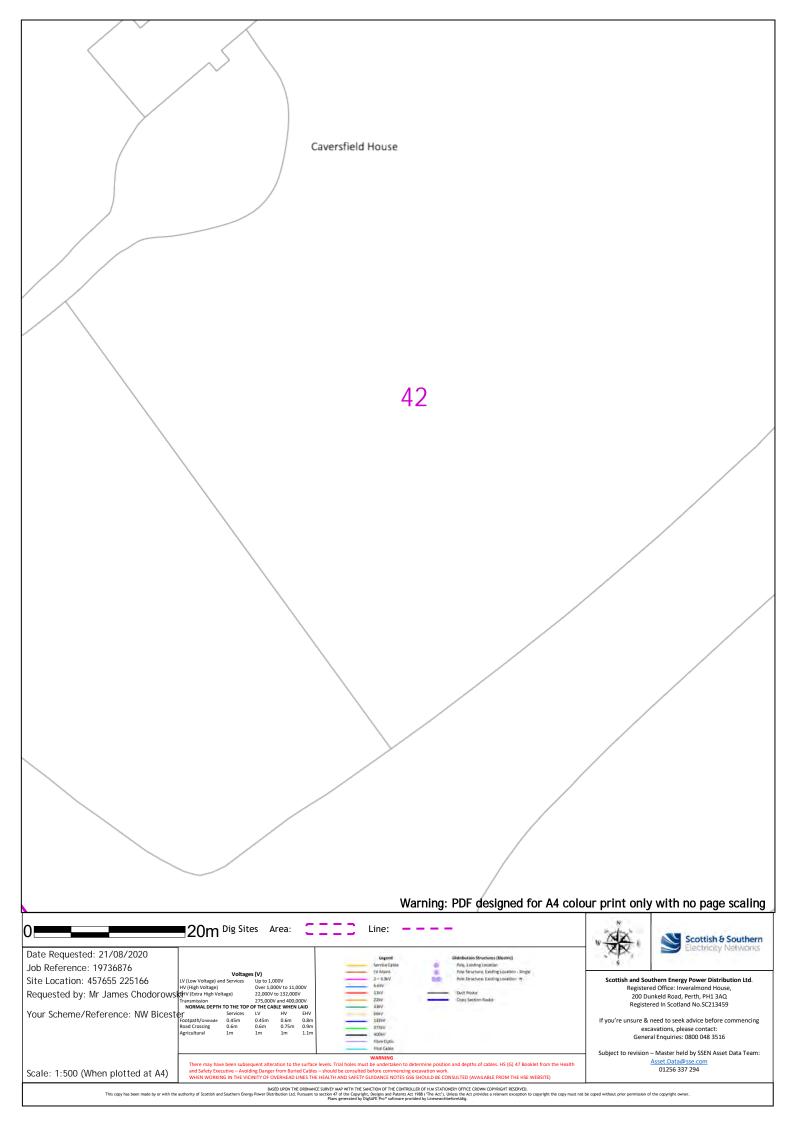
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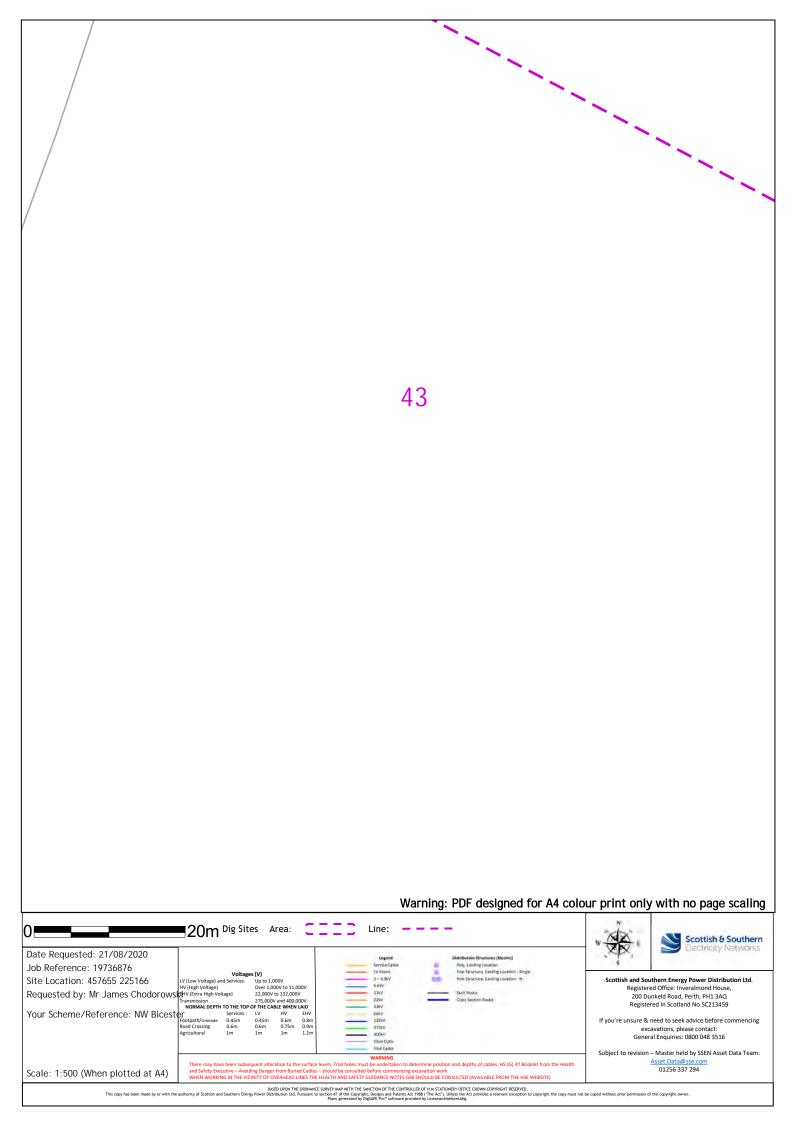


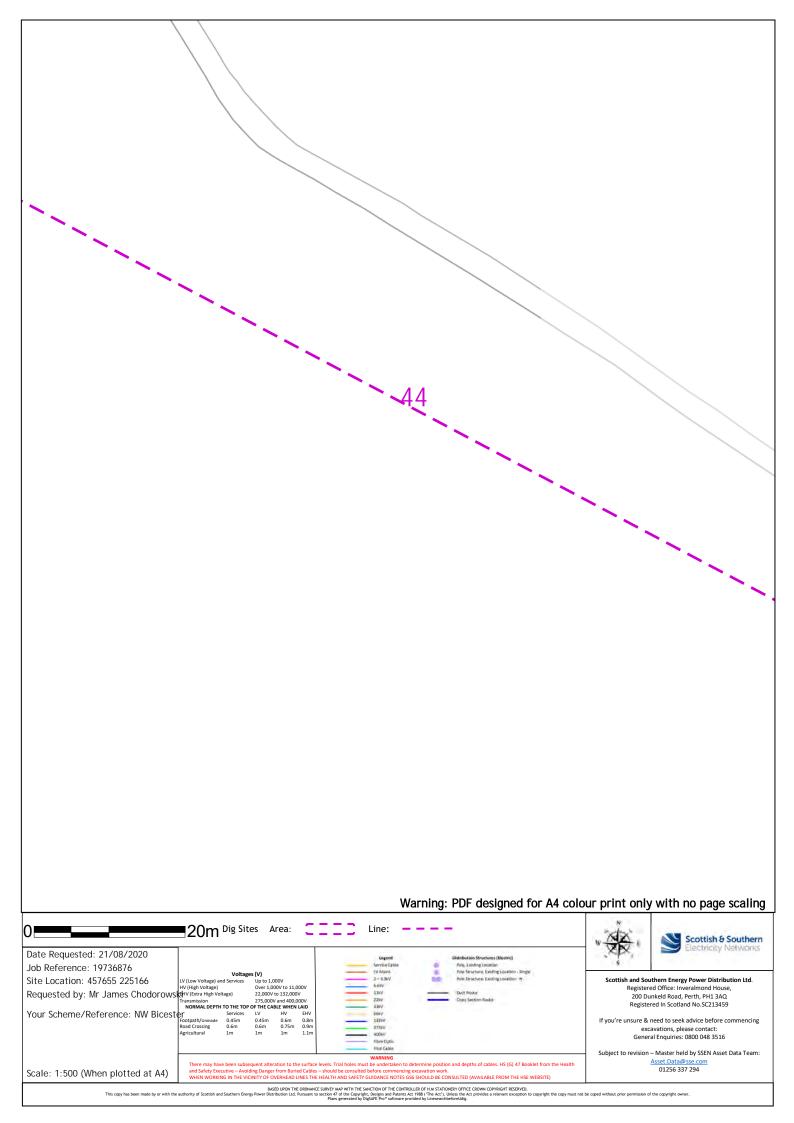


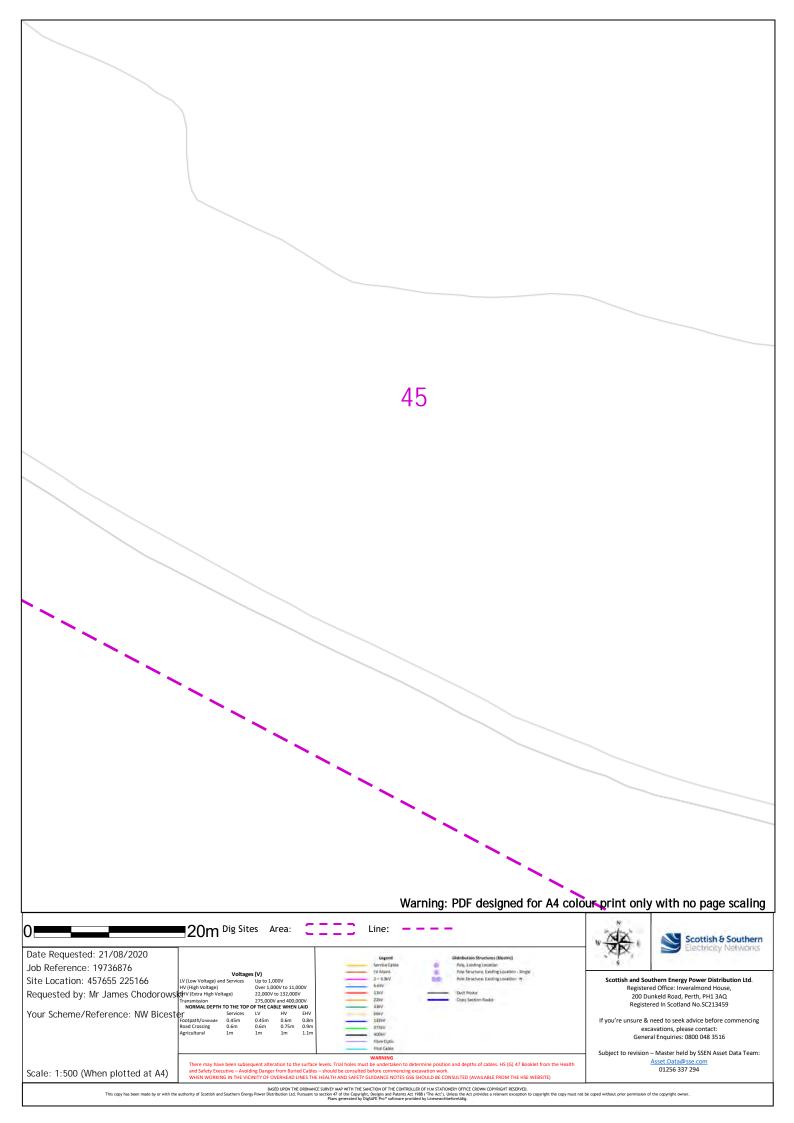


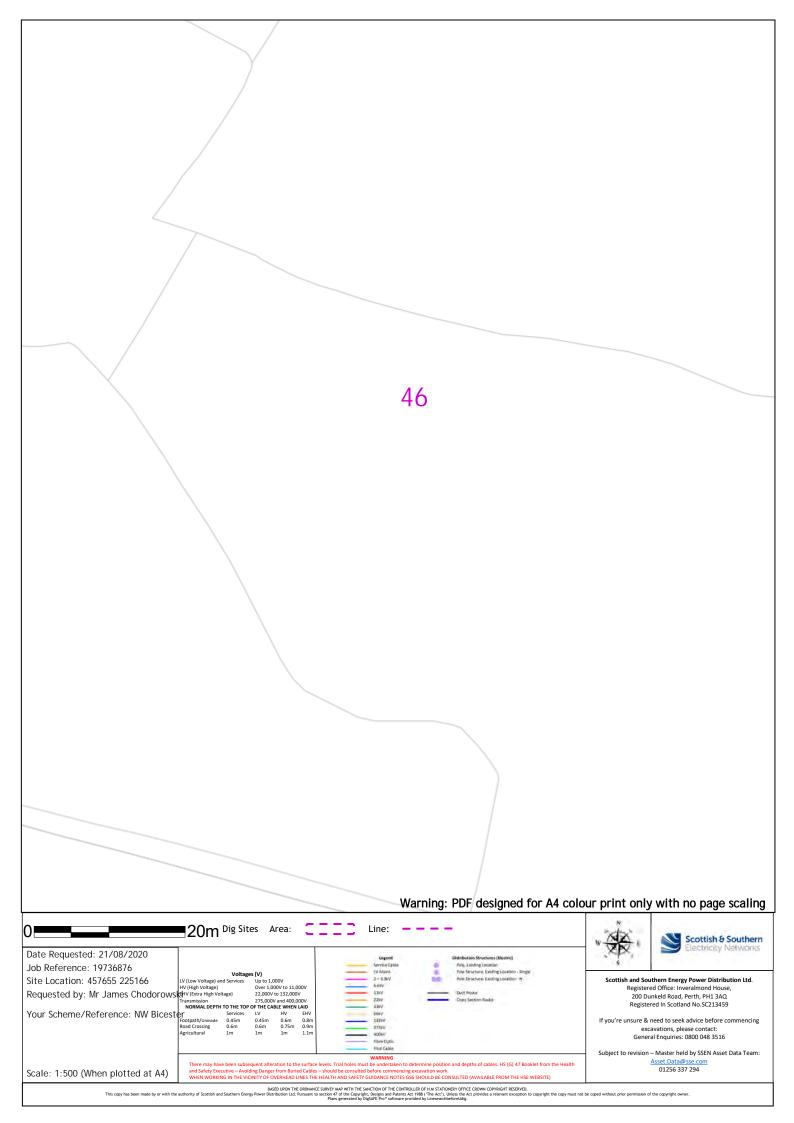


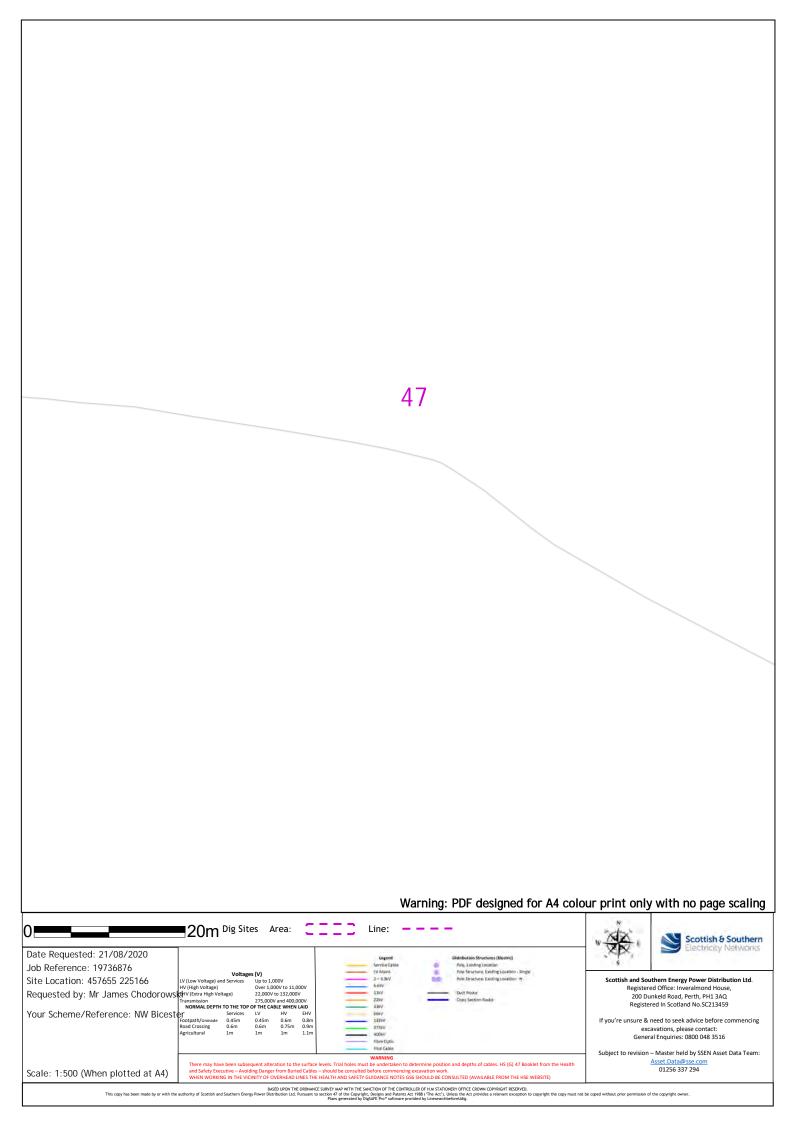


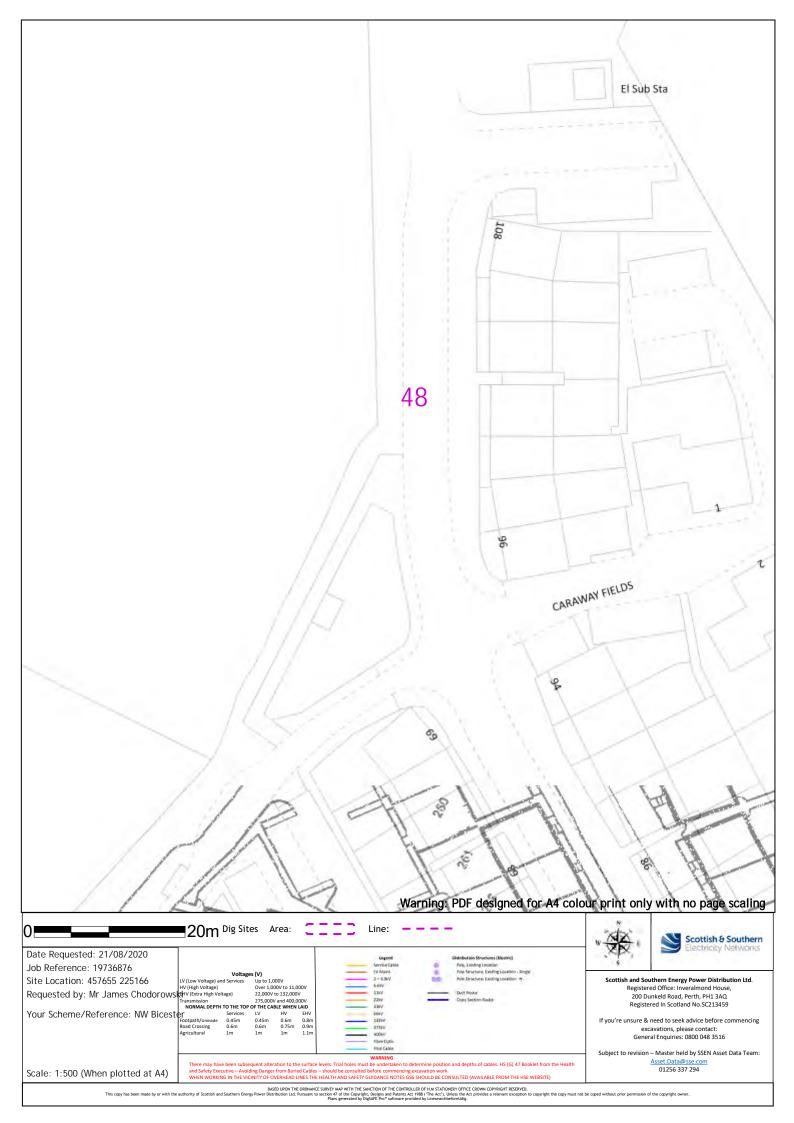


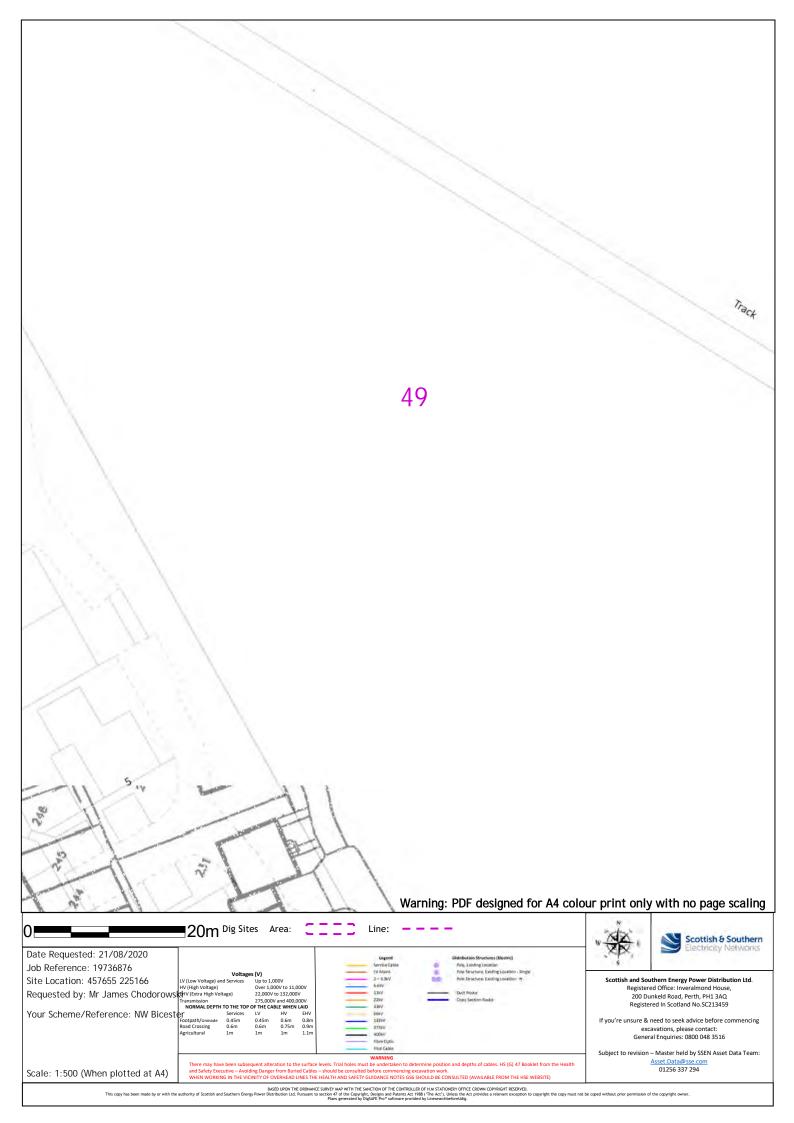


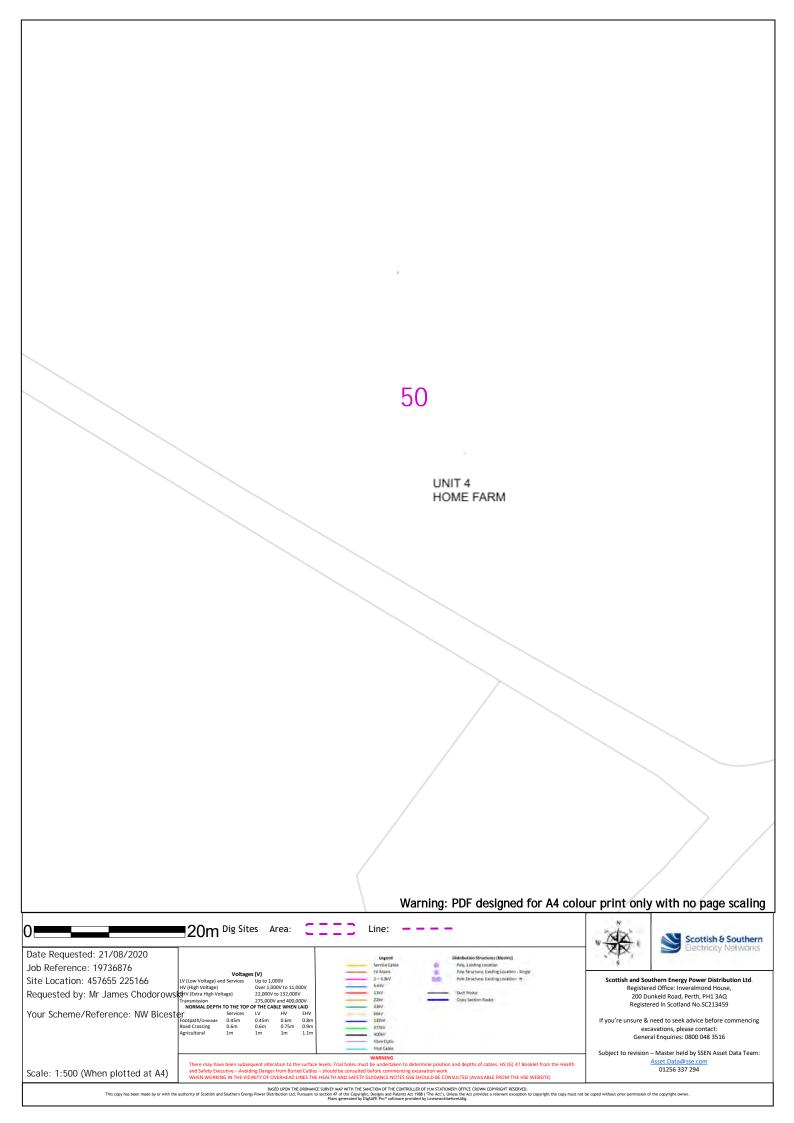


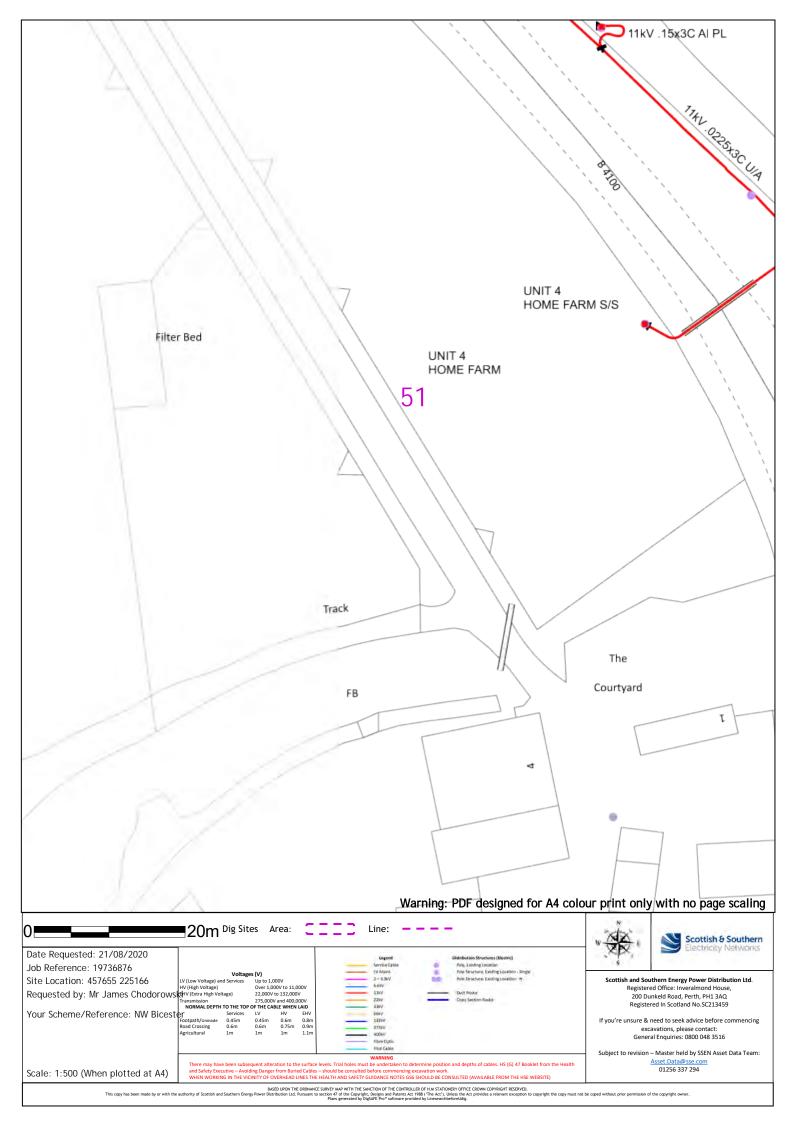


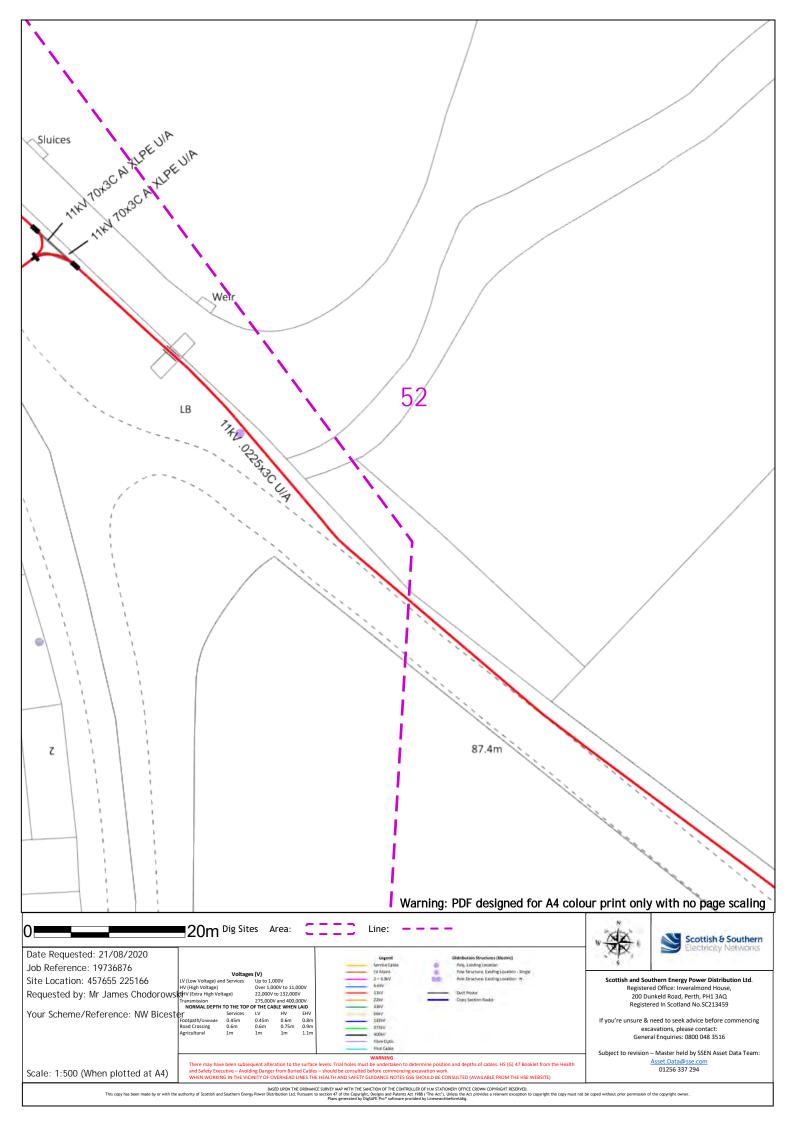


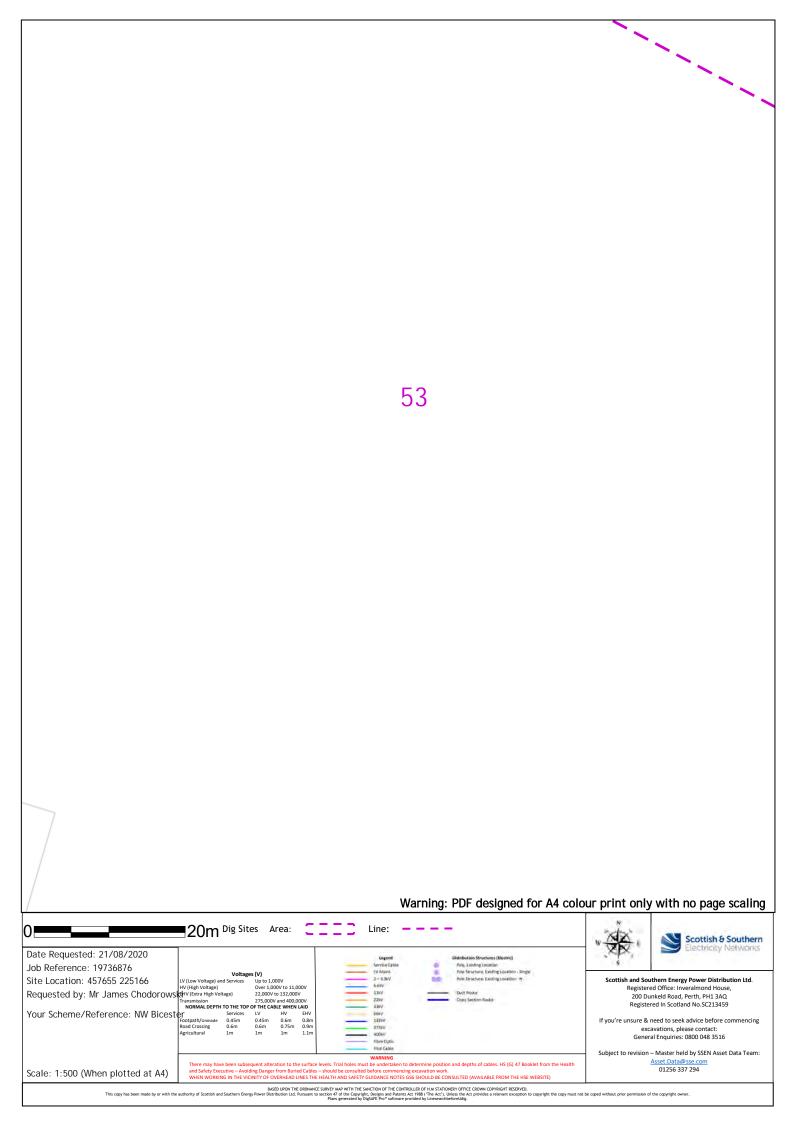


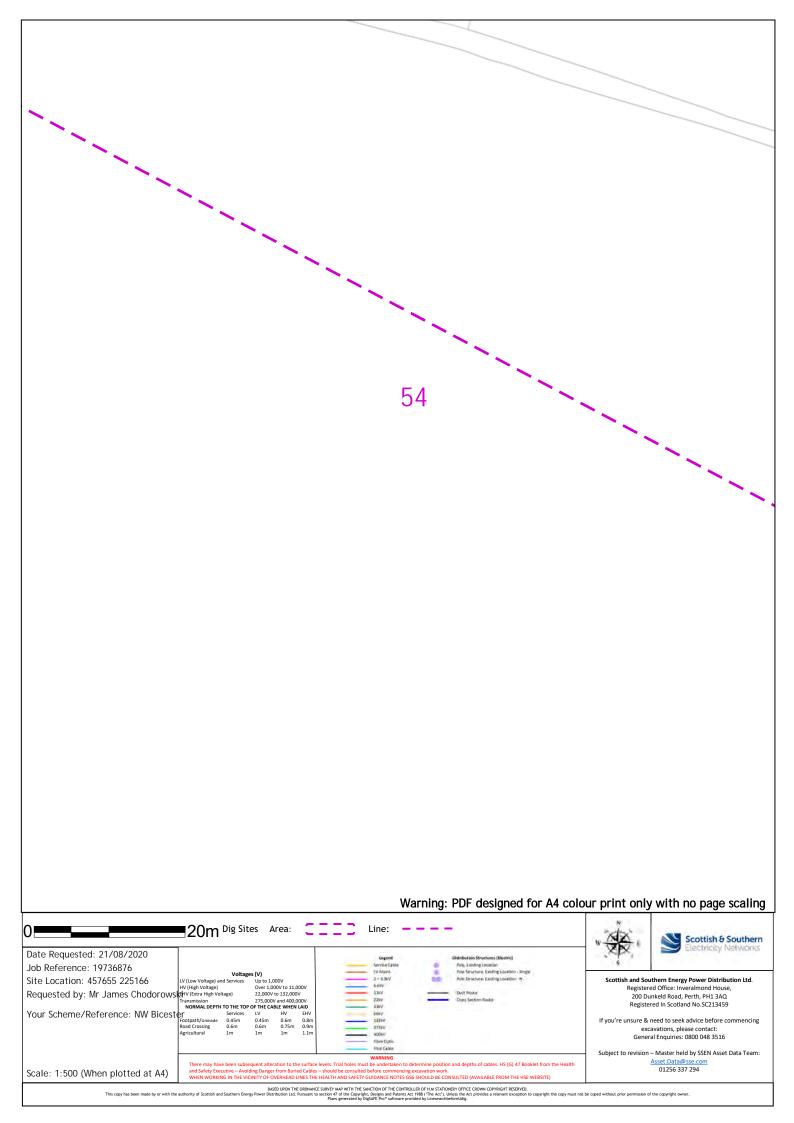


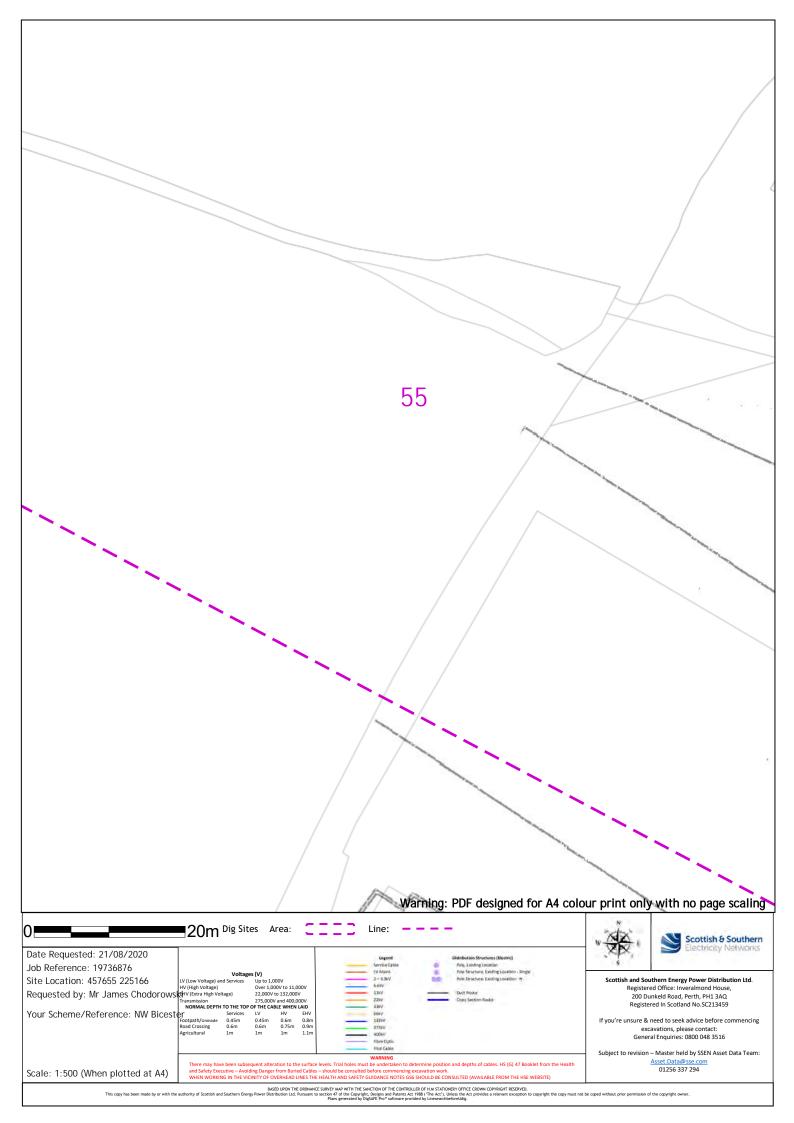


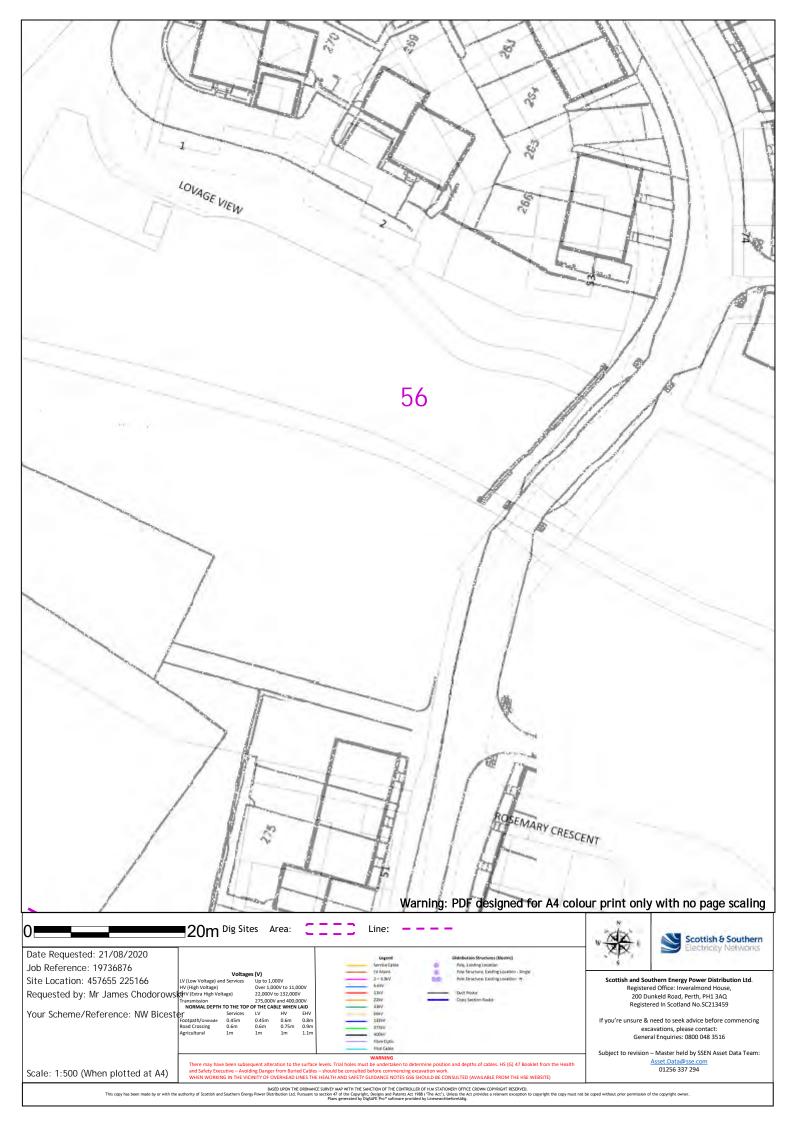


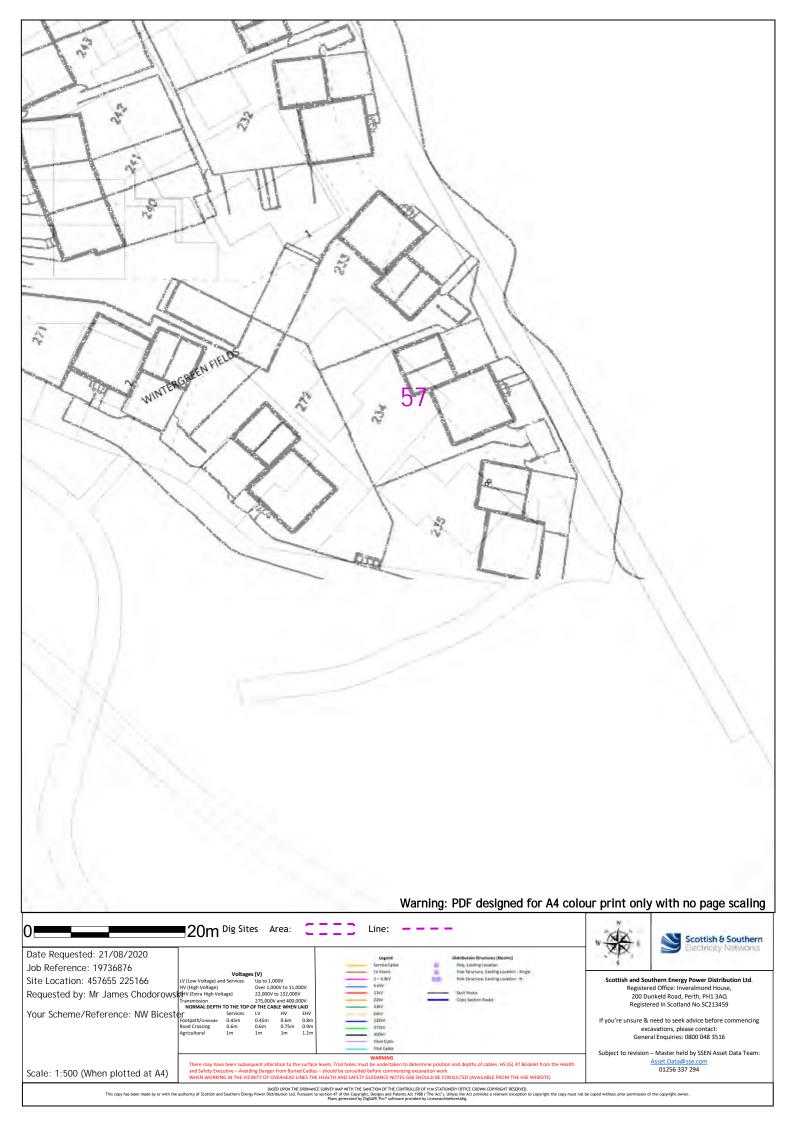


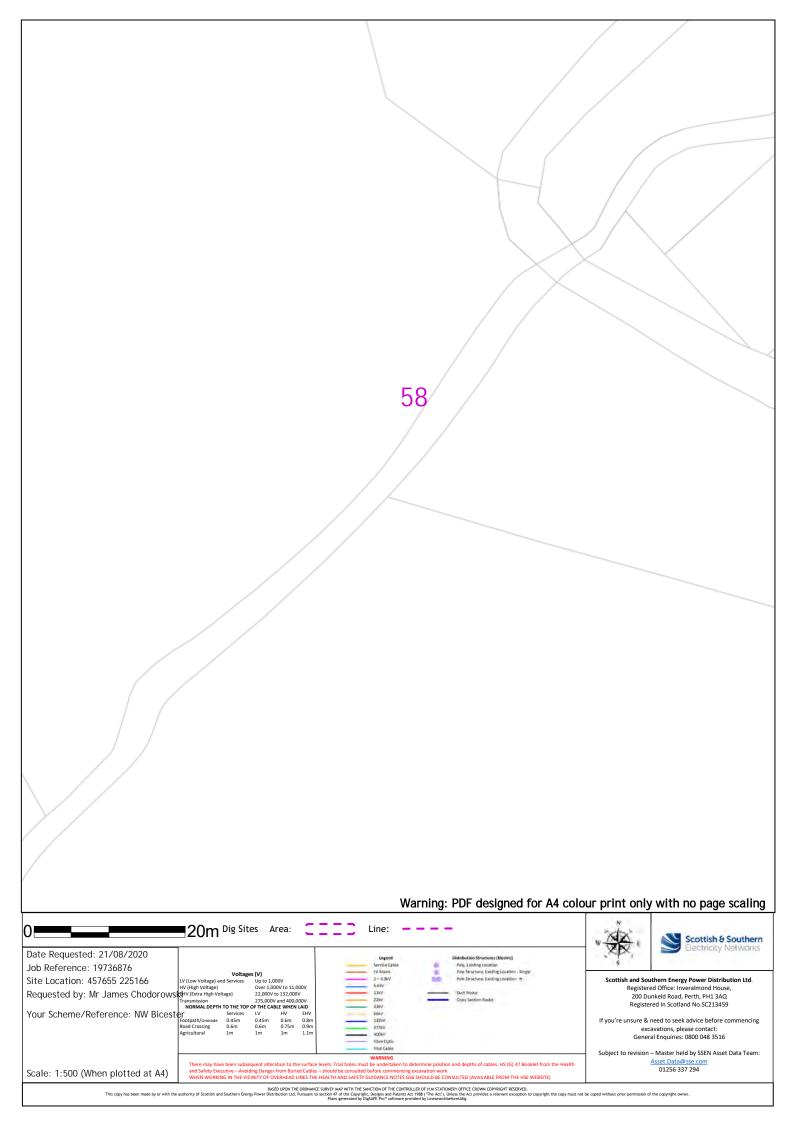


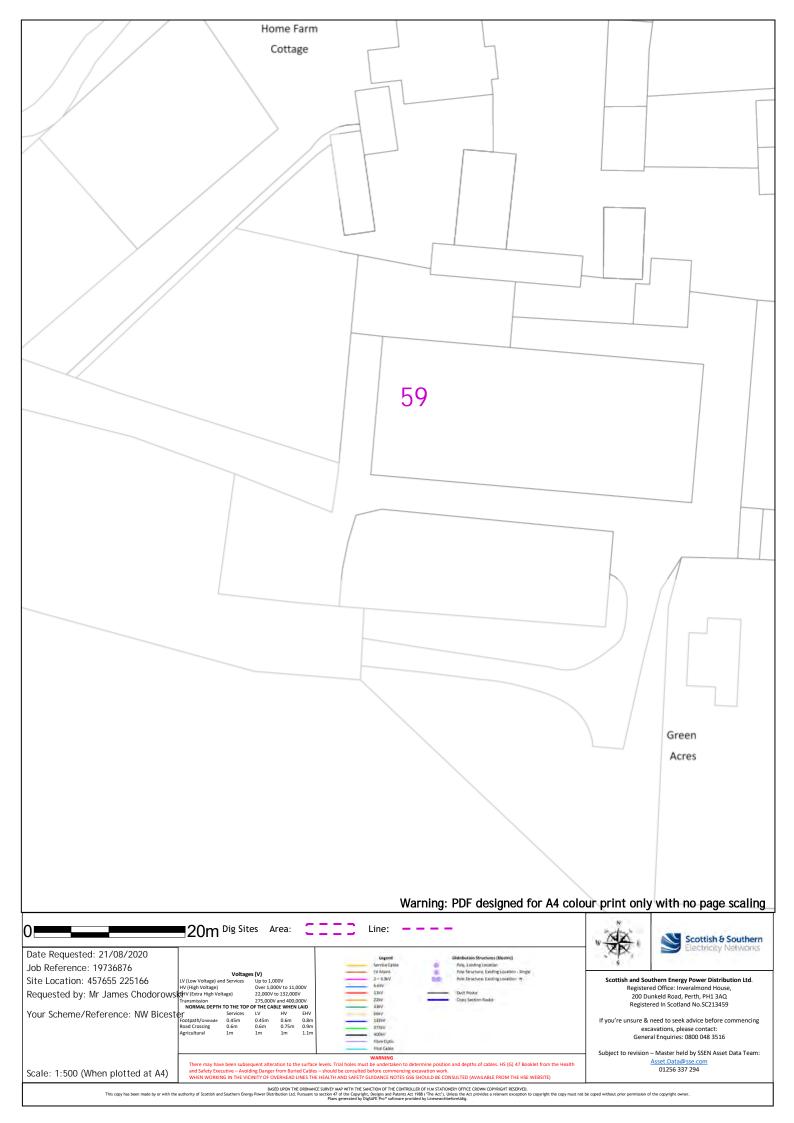


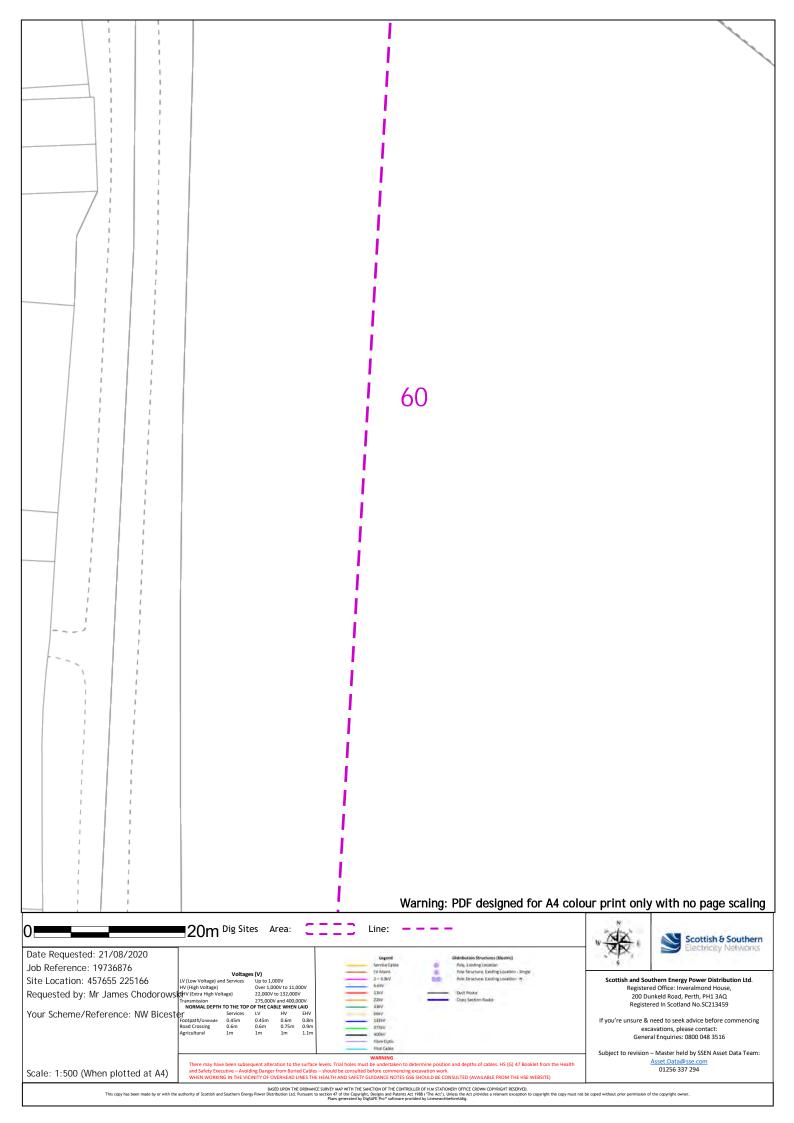


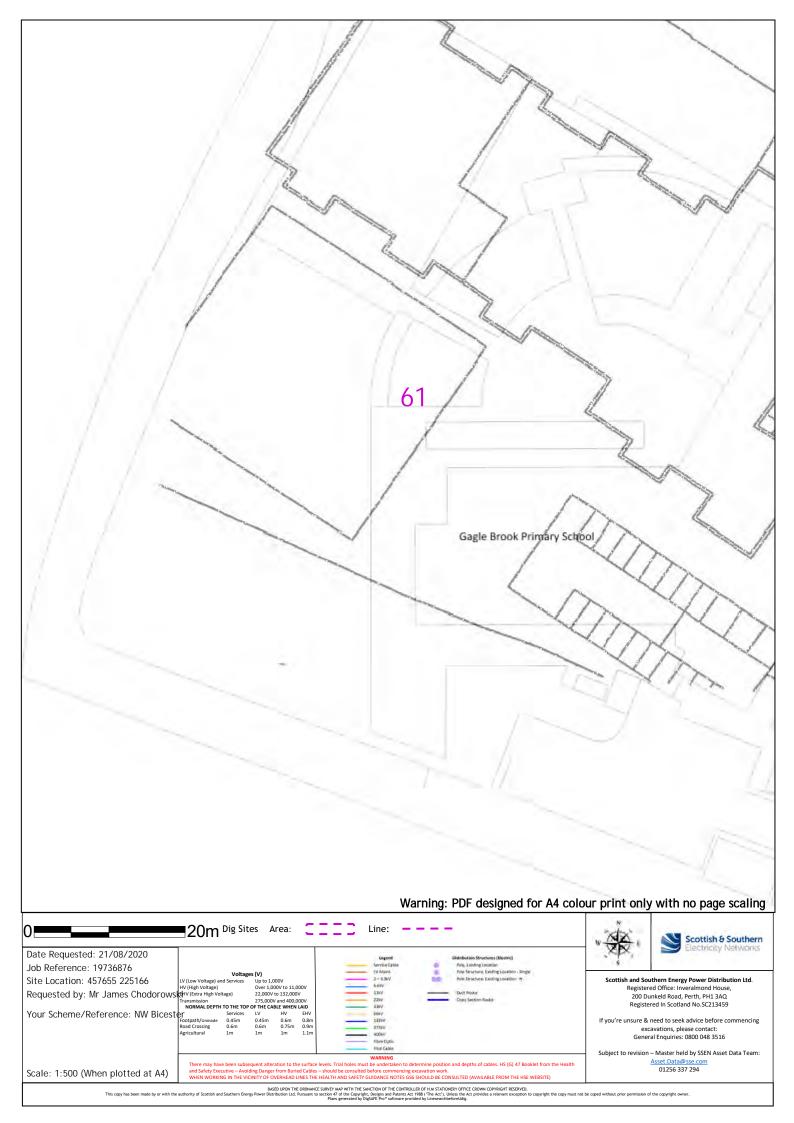


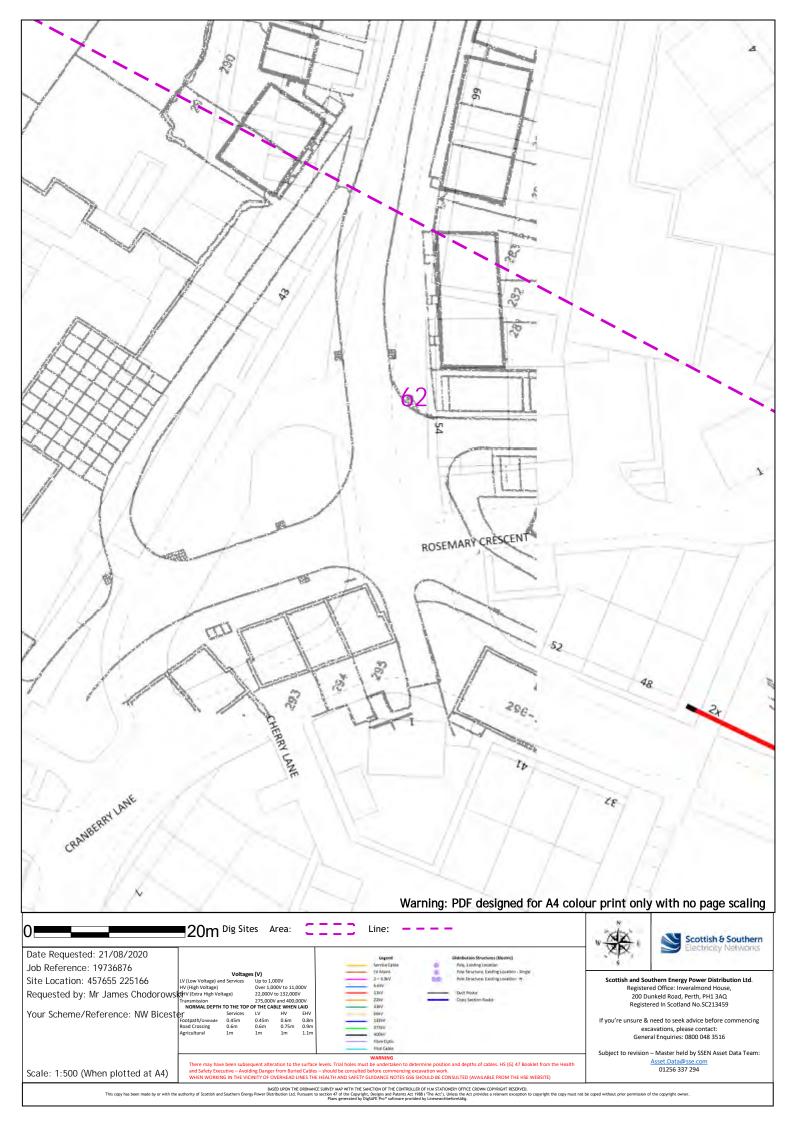


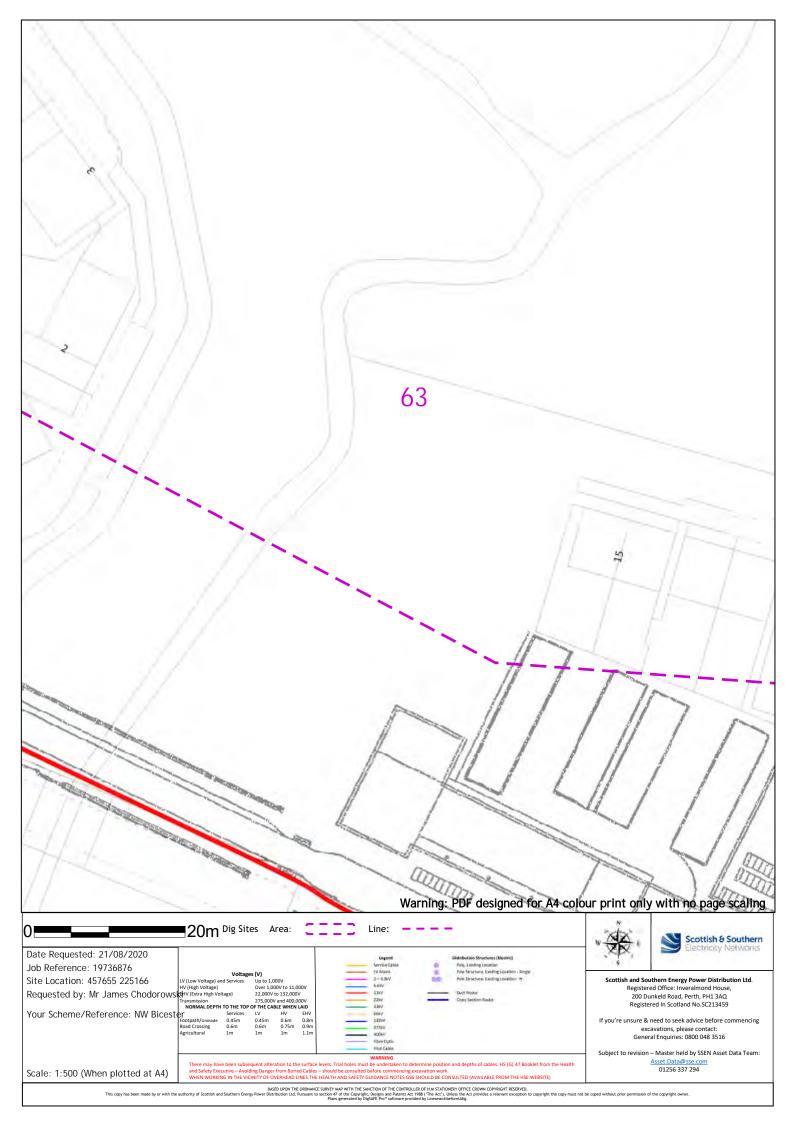


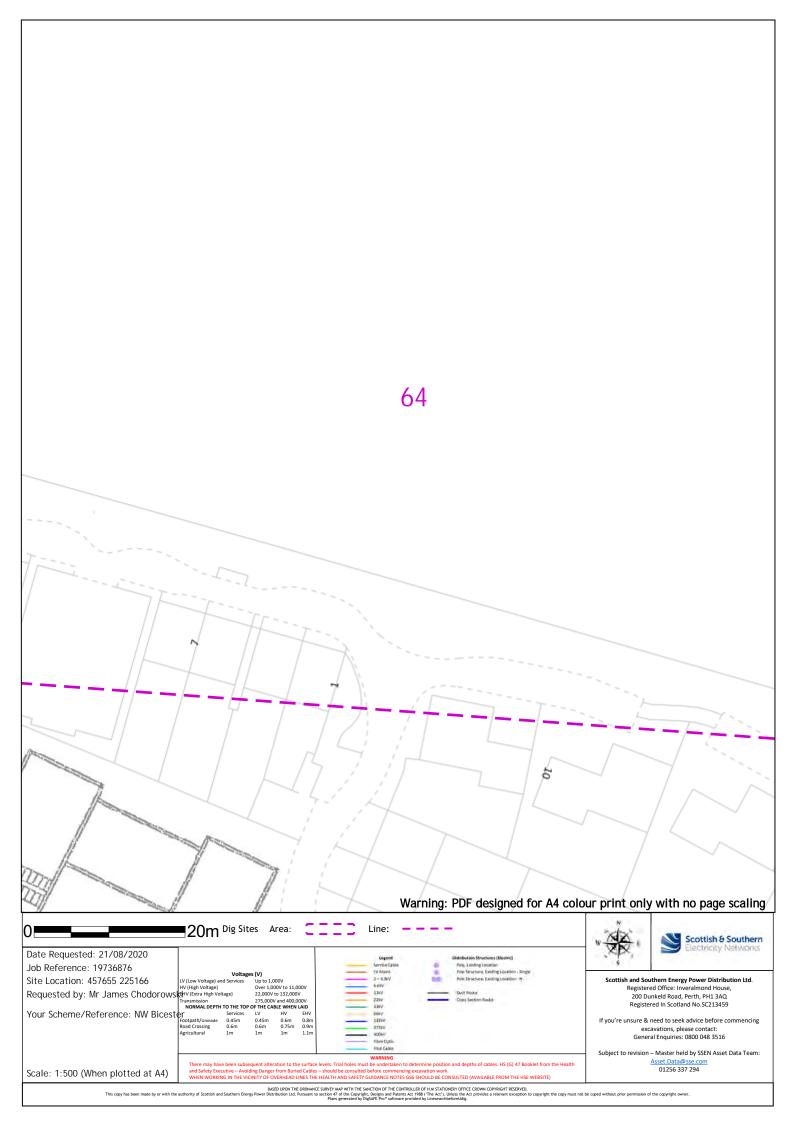


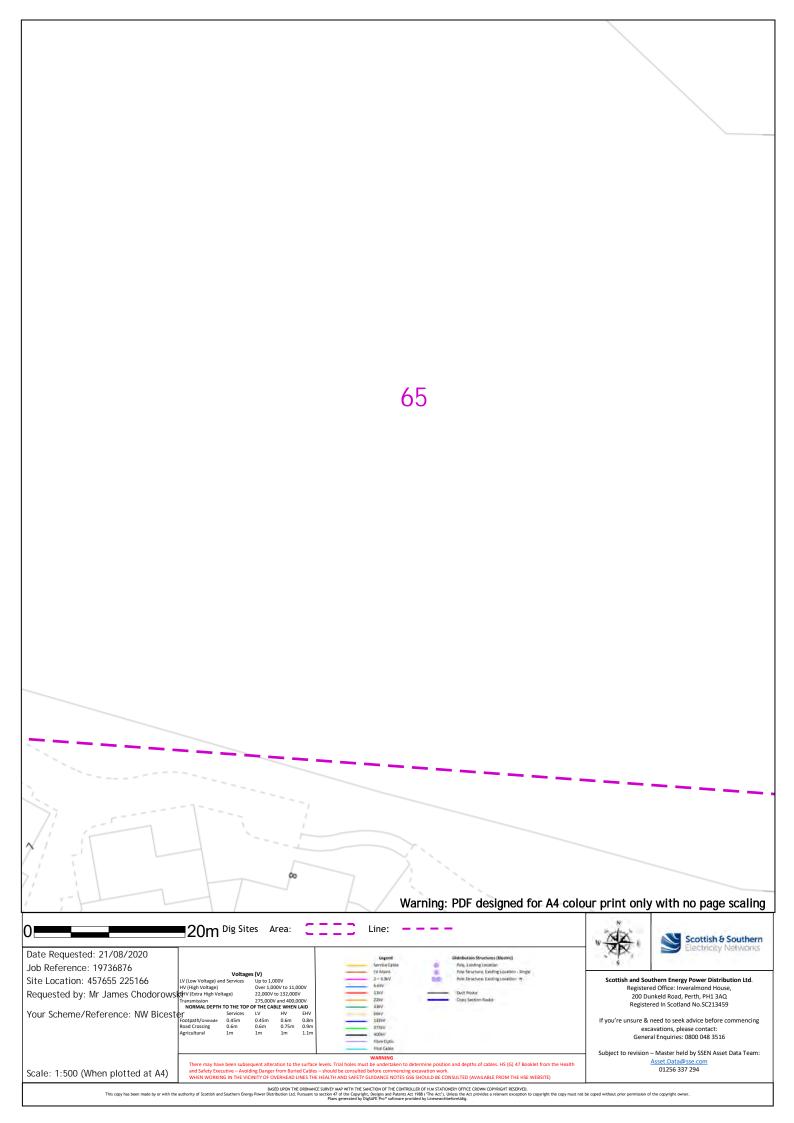


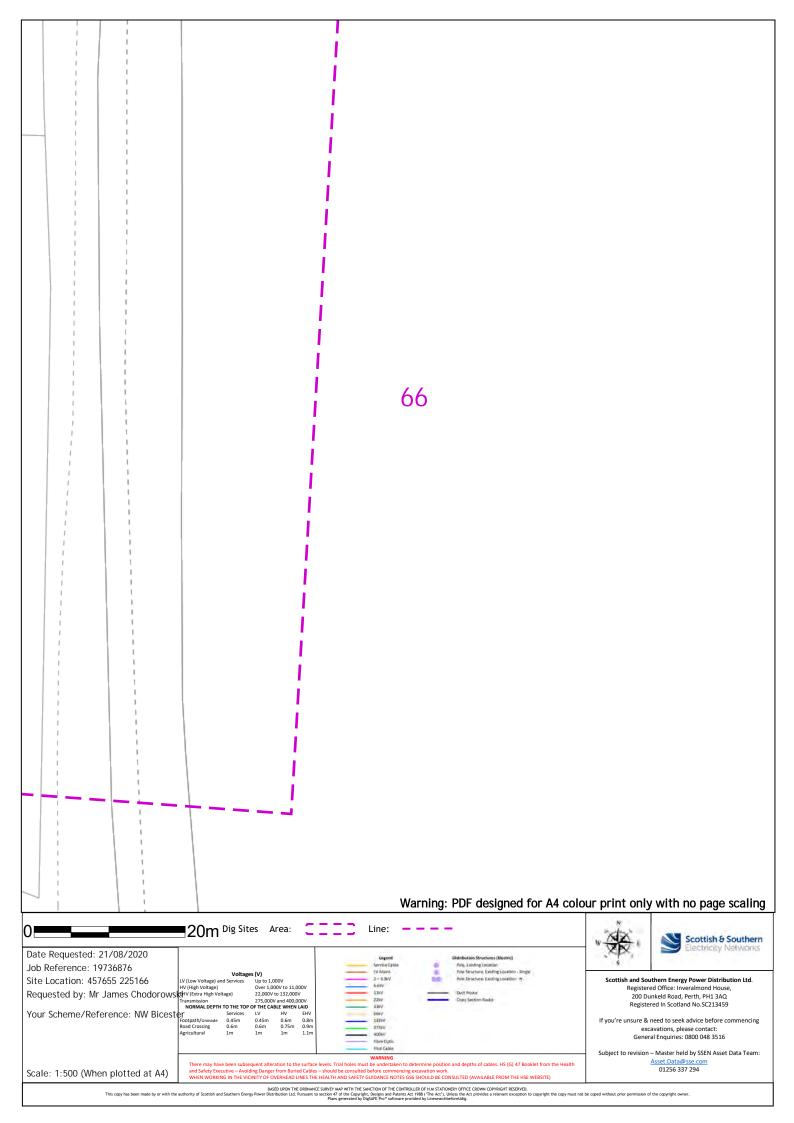
















# GUIDE TO INTERPRETING MAINS RECORDS PLAN







# 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 FOLOW THE DO'S & DON'T'S LISTED BELOW.

# DO'S

- 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.
- 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
- 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 not 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 clearnace above all cable & joints.
- 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.

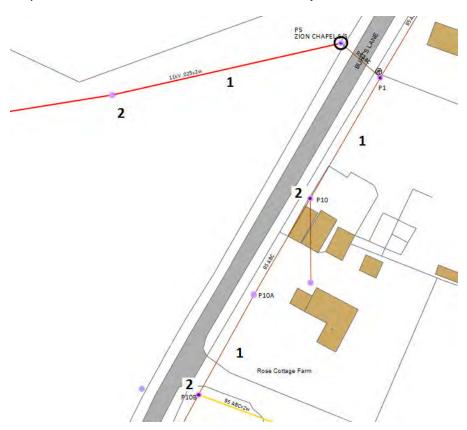
AVERAGE DEPTH OF CABLES: Footpaths 0.6 metres

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:



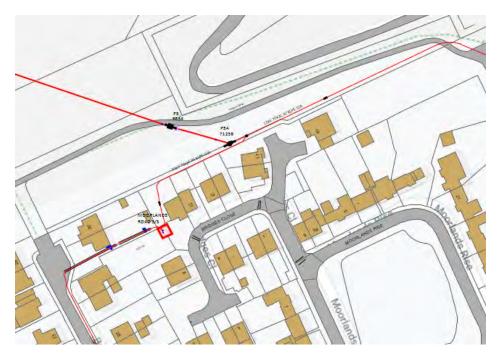
- 1. Sub Station
- 2. Low Voltage Underground cable.
- 3. Link Boxes: This is a box with a manhole cover marked as belonging to Scottish & Southern Energy containing links. Either two or four cables will lead away from a link box.
- 4. Straight Joint: This is where two separate cables are joined together.
- 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	
Service cubic	Single 1 dies	
LV Mains	 H Poles	
LV Mains and Services (Split Phase)	3 Poles	8
2-3.3kV	 Tower	
6.6kV	Pole Mounted Transformer	11kV
11kV	Circuit Breaker	
22kV	Switch Disconnector/ OH Air Break	S
33kV	Pole Box	
66kV	Straight Joint	
132kV	Mains Breech Joint (Tee)	•
275kV	Service Breech Joint	•
320 kV	Trifurcating Joint	<b>—</b>
400kV	Pot End	P/E ●
Fibre Optic	Capped End	C/E
Pilot Cable	 Sealing End	





	T	T	T. T.
Assumed Route		Surge Diverters	W
Out of Service		Pillar	
Service Connector Joint	•	Substation	
Overhead Connector	+	Non Electrical Item	
Wall Box Joint	•	Street Furniture	
Flying Stay	FS	LV Link Box	+
Stay		LV Supply Point	• •
PME Earth	( <del>1)</del>	Oil Pipeline	
Neutral Earth	41-0	Gas Pipeline	
Ducting		Areas of Outstanding Natural Beauty	
Pit		National Park	
Embedded Network		Borehole	
Other Network		ASLs	<b>→ → → → → → → → → →</b>
Water Extraction Point		Sensitive Waterway	





Source Protection Zone	VIII	Site of Special Scientific Interest (SSSI)	
Vulnerability Zone		National Nature Reserve (NNR)	
Access		RAMSAR Special Area of Conservation (SAC)	<b>313</b>
Ownership		Special Protection Area (SPA)	
Monuments		Ancient Woodland	
Flood Area		Restricted Access	

#### 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.

#### Note

In situations of emergency or danger, or where the advice contained in these notes cannot befollowed, 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:

- 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.
- 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.

do backfill carefully, using stone-free soil around the cables, replacing marker-tapes and / or covers.
 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.
 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.
 don't operate a bulldozer, scraper, dragline or excavator; unless you are satisfied that there are no buried cables in the working area.
 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.
 don't dig trial holes over the indicated route of the cable. Excavate alongside instead.

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

don't use exposed cables as a convenient step or handhold.

don't handle or attempt to alter the position of any cable.

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.

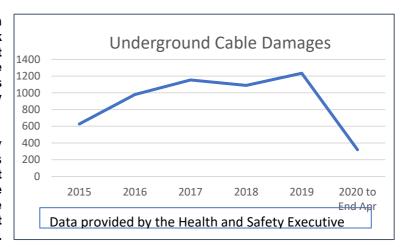
Scottish and Southern Electricity Networks is a trading name of: Scottish and Southern Energy Power Distribution Limited Registered in Scotland No. SC213459; Scottish Hydro Electric Transmission plc Registered in Scotland No. SC213461; Scottish Hydro Electric Power Distribution plc Registered in Scotland 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

# '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) <u>Guidance HSG47</u> 'Avoiding <u>danger from underground services</u>' and ENA's '<u>Watch Out, Cables About</u>' 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: <a href="https://www.utilitystrikeavoidancegroup.org">https://www.utilitystrikeavoidancegroup.org</a>

- 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 Norther 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 Norther 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 <a href="https://www.energynetworks.org">www.energynetworks.org</a> .



# Appendix D Gas



Our Ref: 19736876 Your Ref: NW Bicester

Friday, 21 August 2020

James Chodorowski Caversham Bridge House Waterman Place Reading Berkshire RG1 8DN

Dear James Chodorowski

Thank you for your enquiry dated Friday, 21 August 2020

Please find an extract from our mains records for your proposed work area, any SGN assets are described in the map legend. On some occasions blank maps may be sent to you, this is due to your proposed work being in a no gas area but within our operational boundaries.

This mains record only shows the pipes owned by SGN in our role as a Licensed Gas Transporter (GT). Please note that privately owned gas pipes or pipes owned by other GTs may be present in this area and information regarding those pipes needs to be requested from the owners. If we know of any other pipes in the area we will note them on the plans as a shaded area and/or a series of x's.

The information shown on this plan is given without obligation or warranty and the accuracy cannot be guaranteed. Service pipes, valves, siphons, stub connections etc. are not shown but their presence should be anticipated. Your attention is drawn to the information and disclaimer on these plans. The information included on the plan is only valid for 28 days.

On the mains record you may see the low/medium/intermediate pressure gas main near your site. There should be no mechanical excavations taking place above or within 0.5m of a low/medium pressure system or above or within 3.0m of an intermediate pressure system. You should, where required confirm the position using hand dug trial holes.

A colour copy of these plans and the gas safety advice booklet enclosed should be passed to the senior person on site in order to prevent damage to our plant and potential direct or consequential costs to your organisation.

Safe digging practices in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of the 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 relevant people (direct labour or contractors) working for you on or near gas pipes.

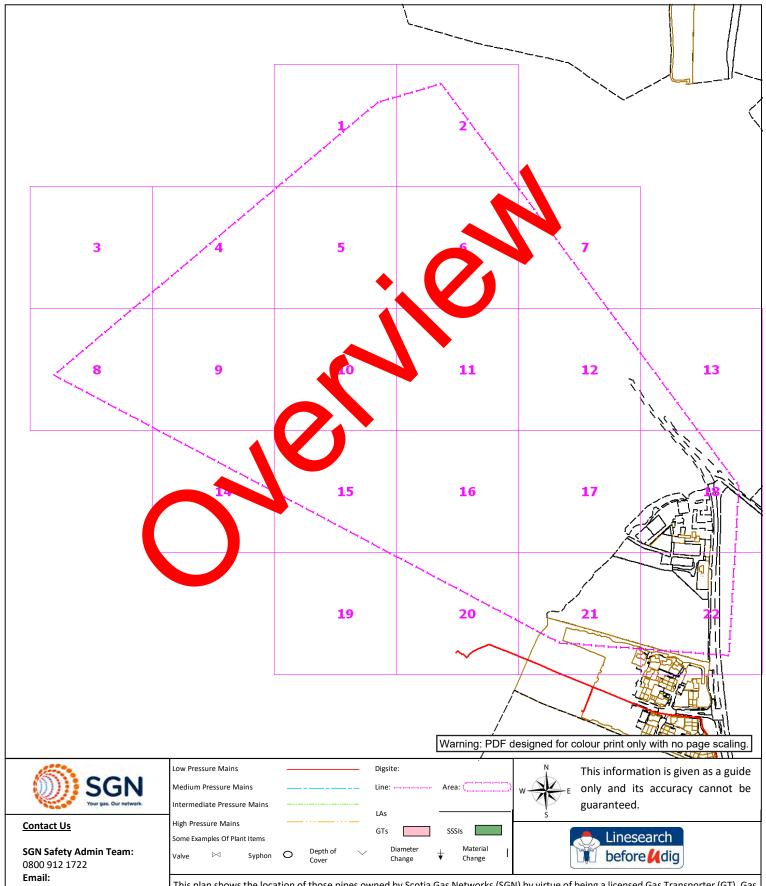
It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge to you or the organisation carrying out work on your behalf. Your works should be carried out in such a manner that we are able to gain access to our apparatus throughout the duration of your operations.

If you require any further information please do not hesitate to contact us.

Yours sincerely,
The Safety Admin Team
For more information, visit our Dig Safely pages on sgn.co.uk

Tel: 0800 912 1722

Smell gas? Call 0800 111 999

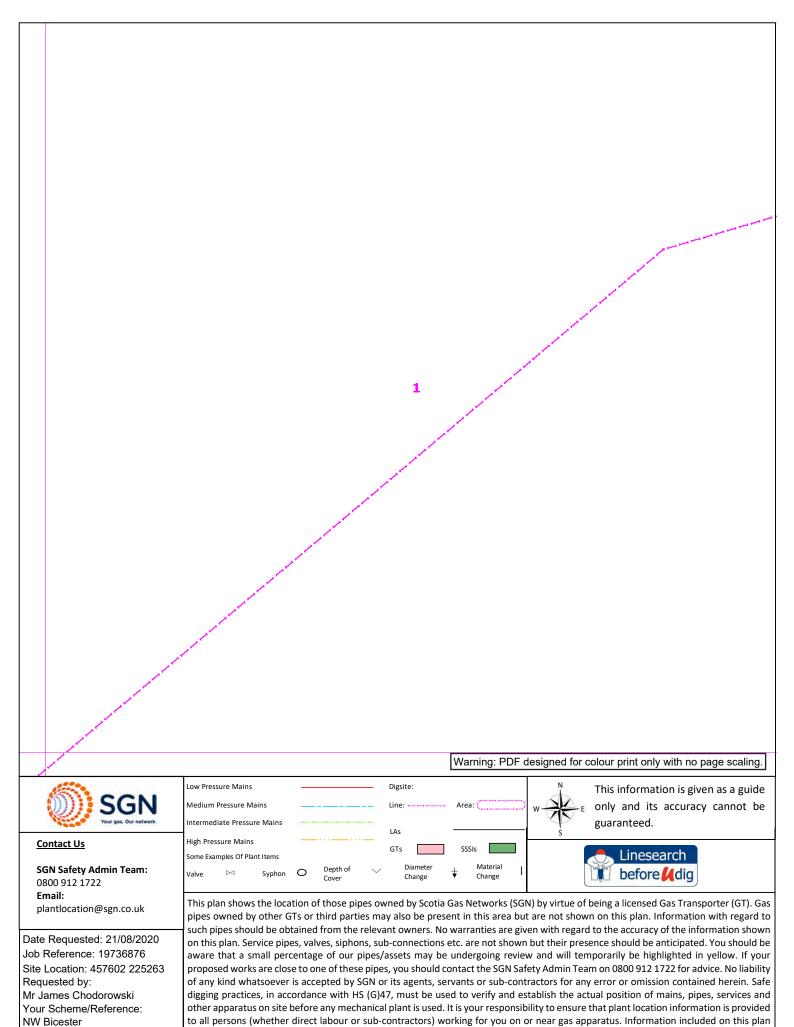


plantlocation@sgn.co.uk

Date Requested: 21/08/2020 Job Reference: 19736876 Site Location: 457602 225263 Requested by: Mr James Chodorowski Your Scheme/Reference: **NW Bicester** 

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. 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 plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA 0800 111 999

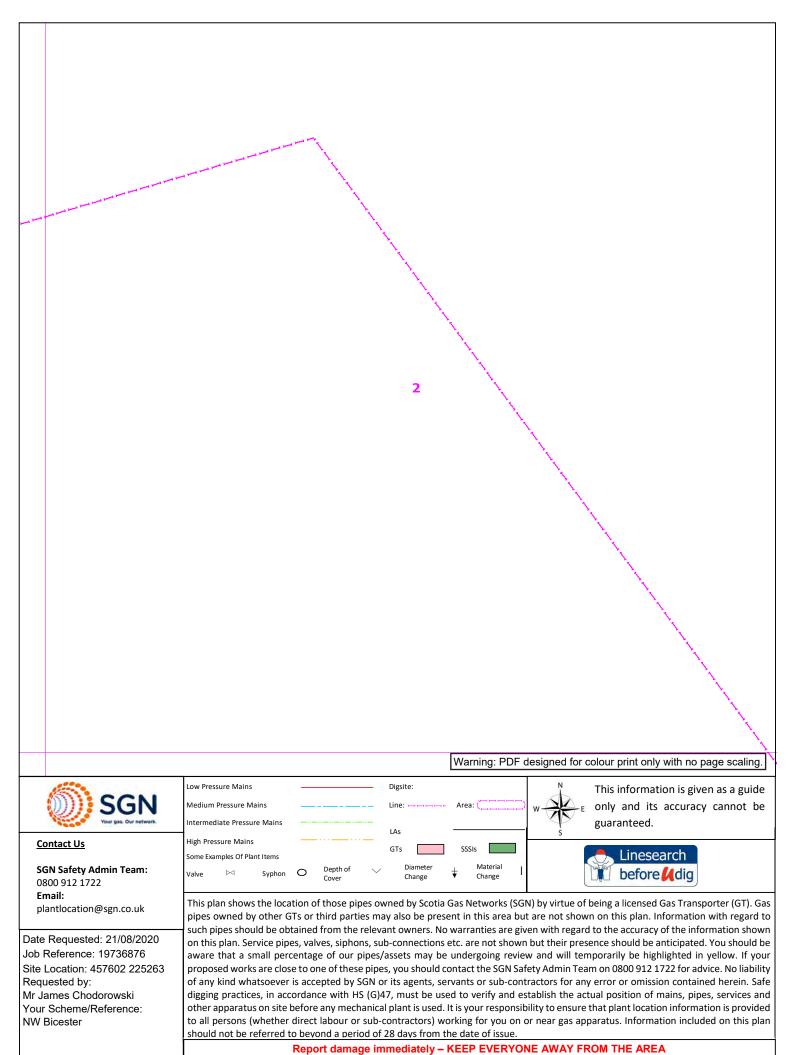


0800 111 999 1:1000 Area or Circle dig site This plan is reproduced from or based on the OS map by Scotia Gas Networks plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Southern Gas – 1:1000 Line dig site 100044373 and Scotland Gas - 100044366

should not be referred to beyond a period of 28 days from the date of issue.

**Exact Scales:** 

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA



100044373 and Scotland Gas – 100044366.

Plans generated by DigSAFE Pro (tm) software provided by LinesearchbeforeUdig

0800 111 999

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**Exact Scales:** 

1:1000 Line dig site

1:1000 Area or Circle dig site

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



## **Contact Us**

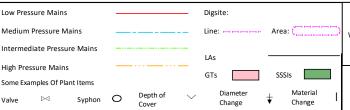
SGN Safety Admin Team: 0800 912 1722 Email: plantlocation@sgn.co.uk

Date Requested: 21/08/2020 Job Reference: 19736876 Site Location: 457602 225263 Requested by:

Mr James Chodorowski Your Scheme/Reference: NW Bicester

Exact Scales:

1:1000 Area or Circle dig site
1:1000 Line dig site



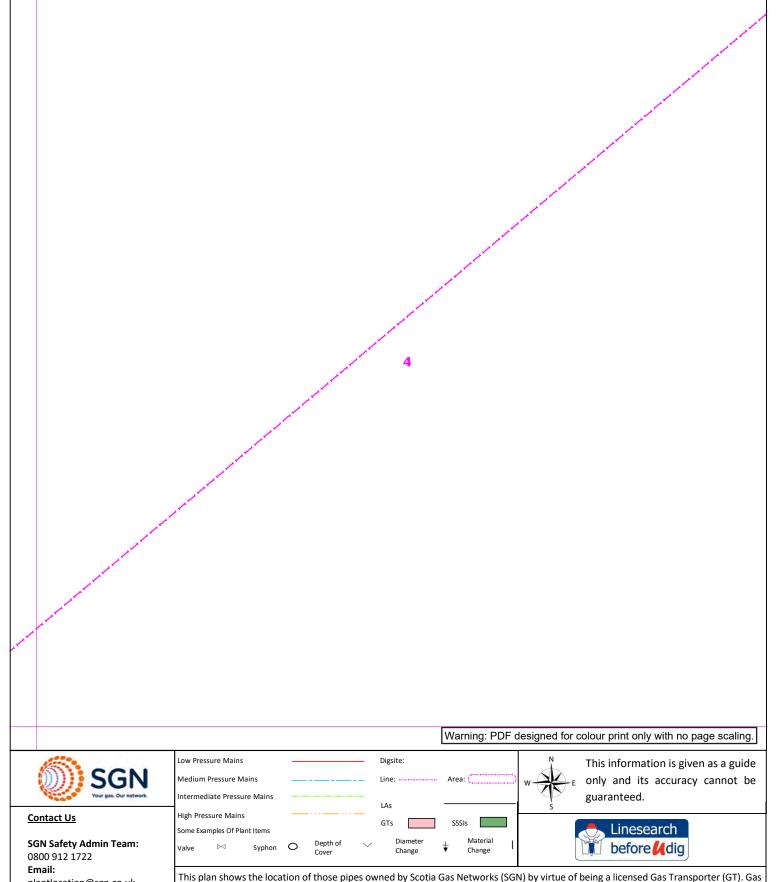


This information is given as a guide only and its accuracy cannot be guaranteed.



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plantlocation@sgn.co.uk

Date Requested: 21/08/2020 Job Reference: 19736876 Site Location: 457602 225263 Requested by: Mr James Chodorowski Your Scheme/Reference: **NW Bicester** 

**Exact Scales:** 

1:1000 Area or Circle dig site 1:1000 Line dig site

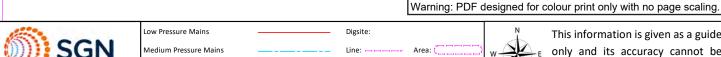
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#### Intermediate Pressure Mains High Pressure Mains Some Examples Of Plant Items Material Depth of Valve Syphon Change Change



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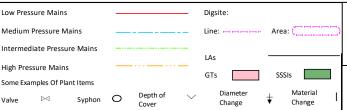


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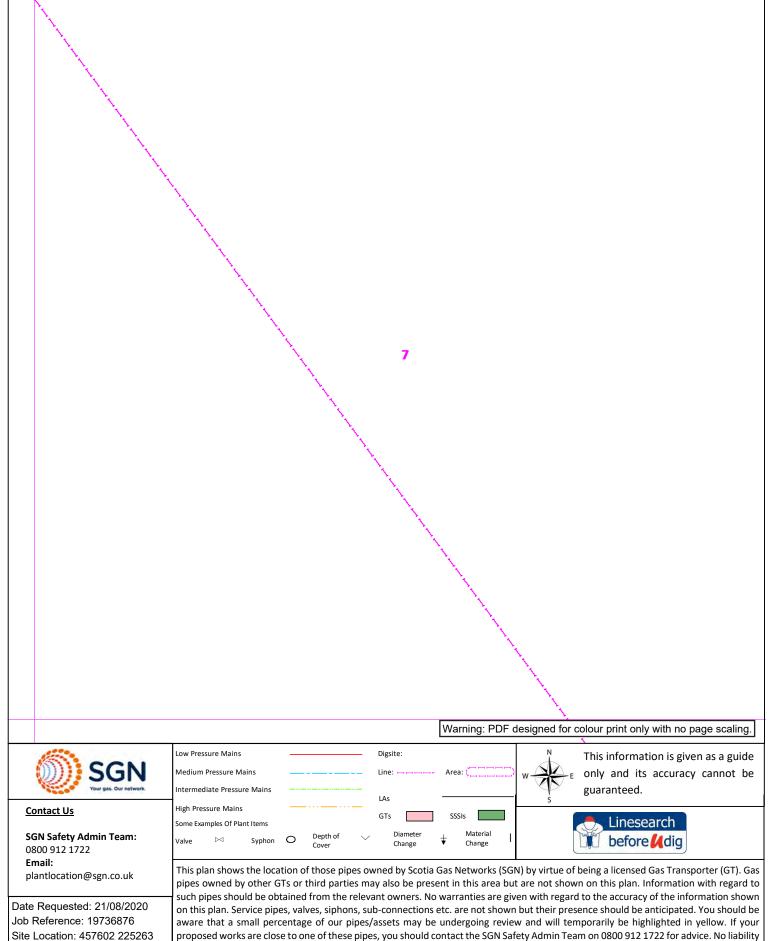


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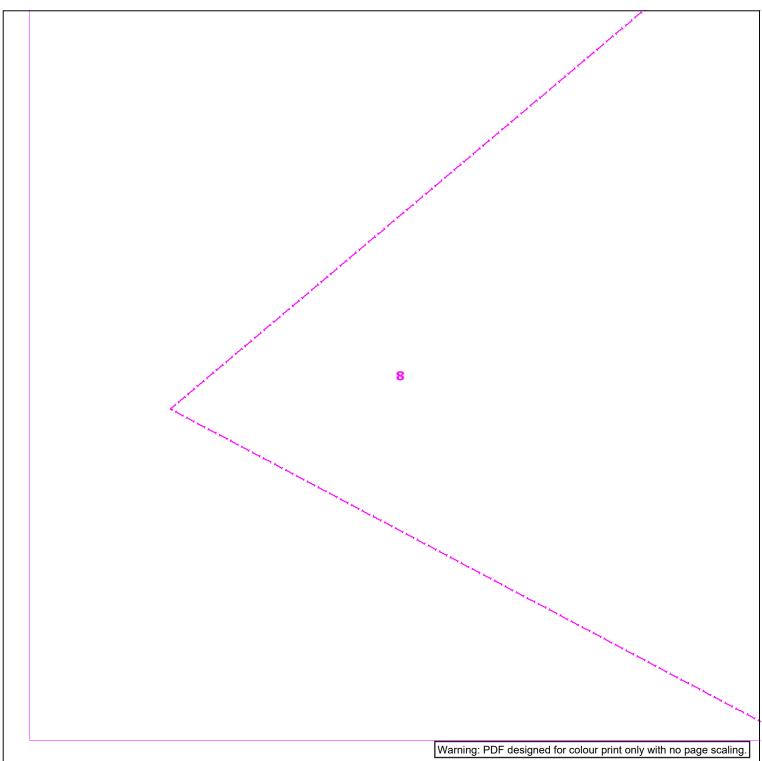
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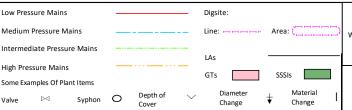
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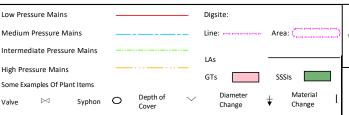


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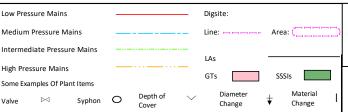
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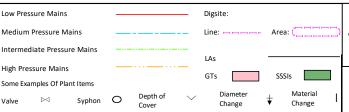
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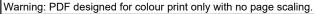


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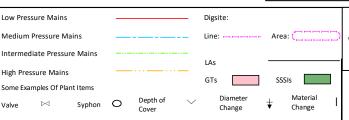
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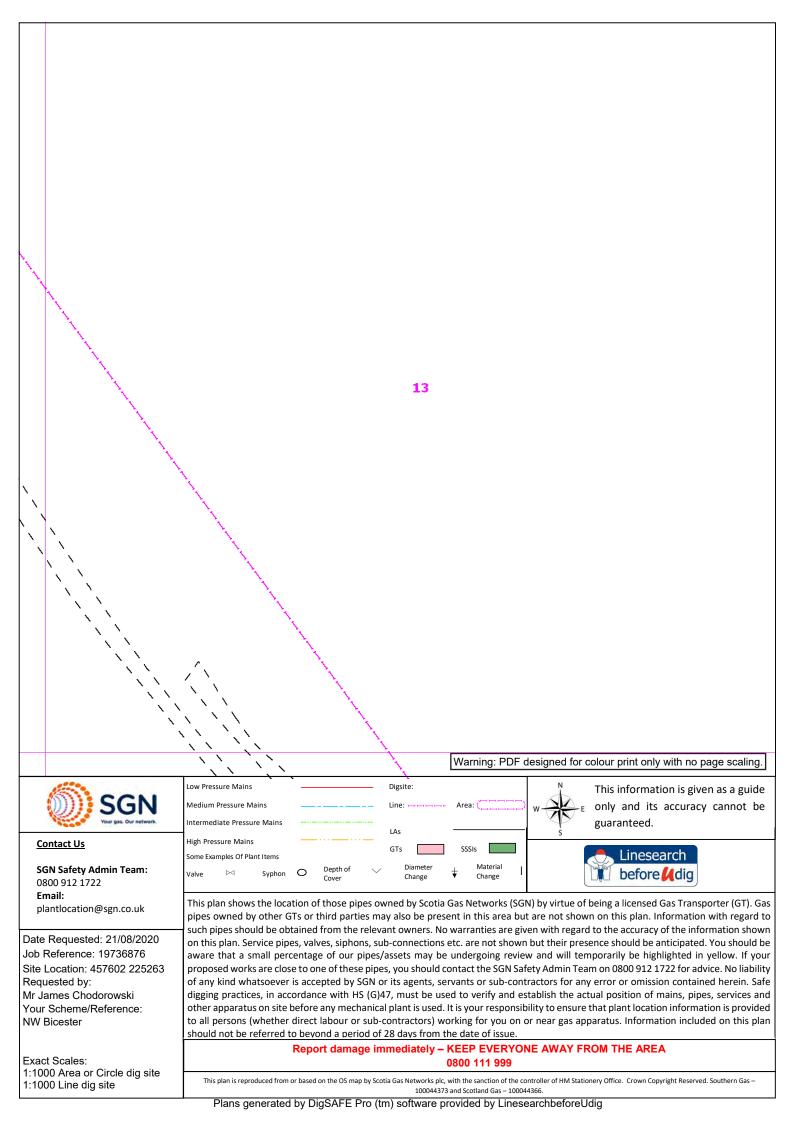


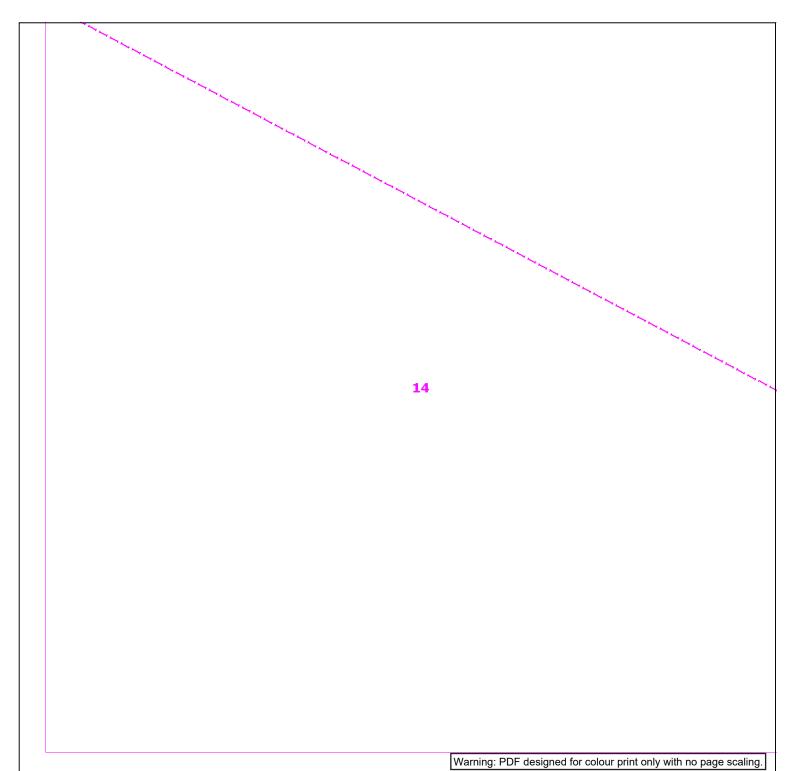
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Low Pressure Mains Digsite: Medium Pressure Mains Intermediate Pressure Mains High Pressure Mains Some Examples Of Plant Items Material Depth of Valve Syphon Change Change

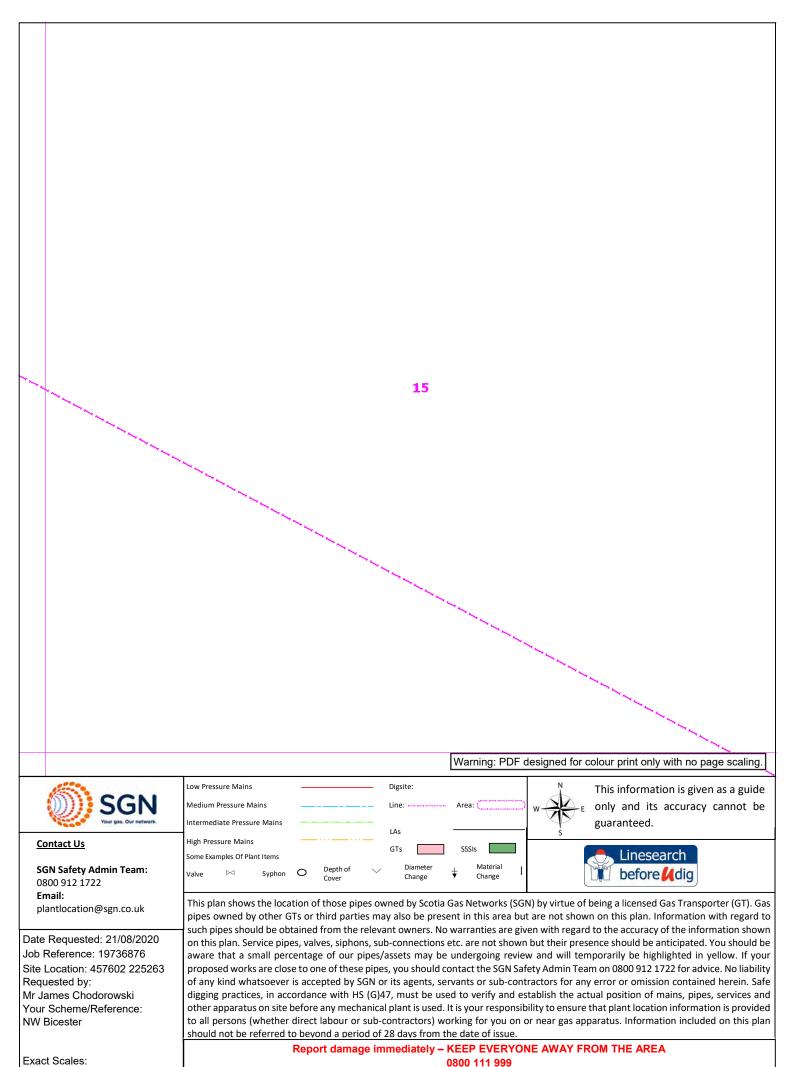


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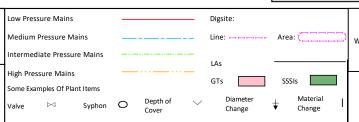
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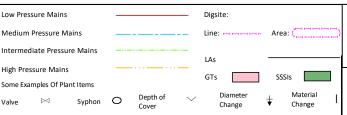
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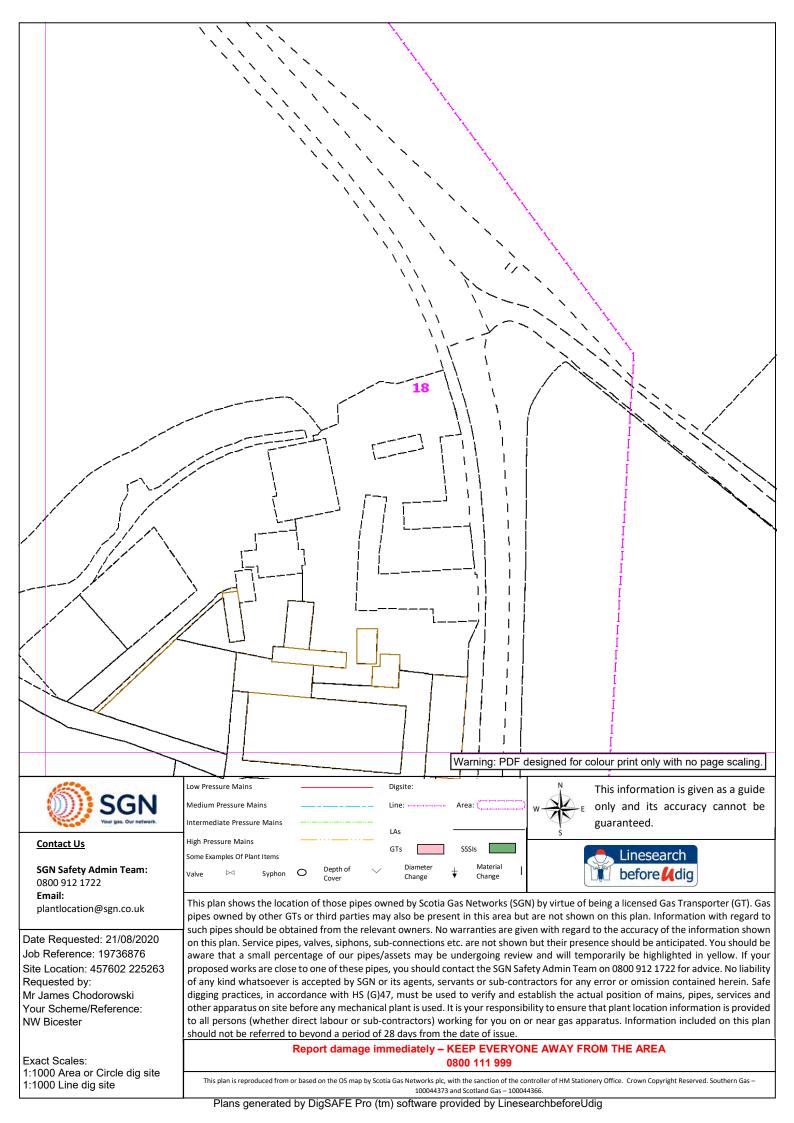
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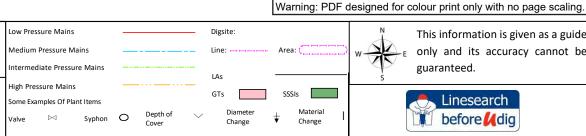


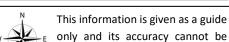


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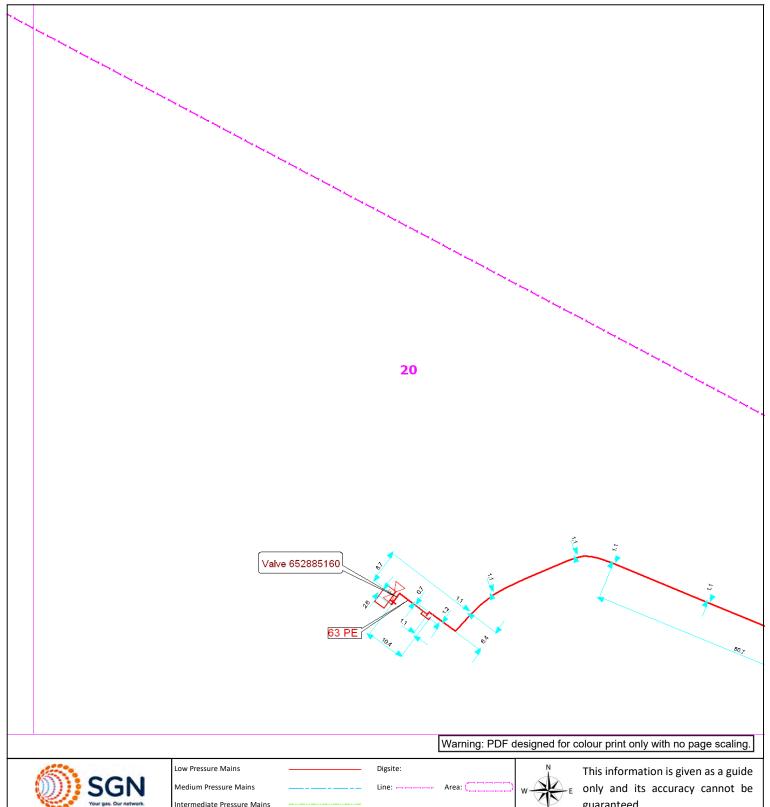


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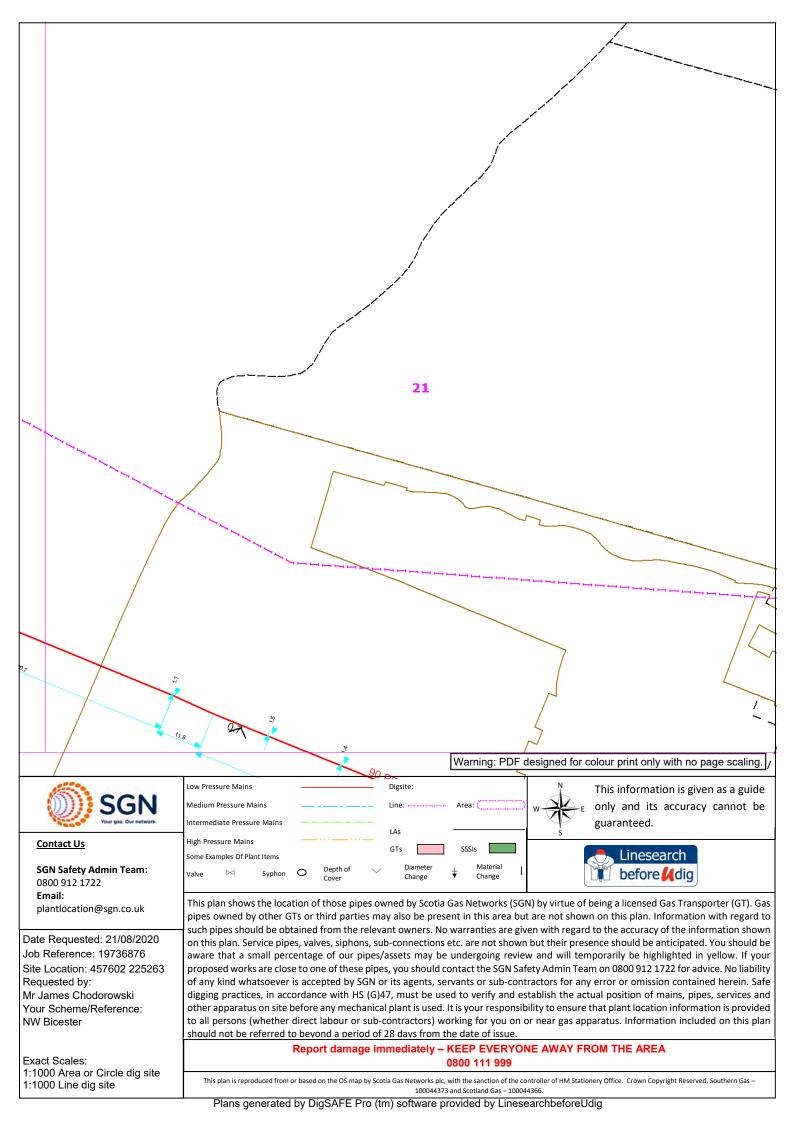


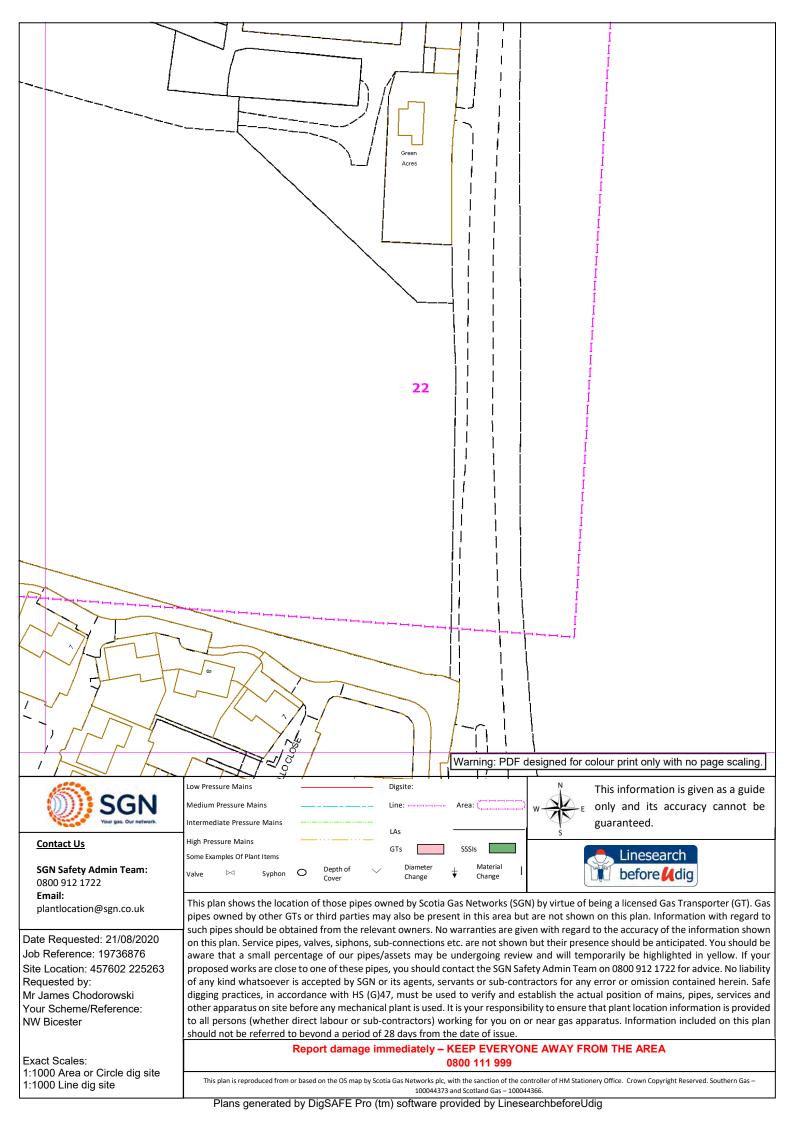
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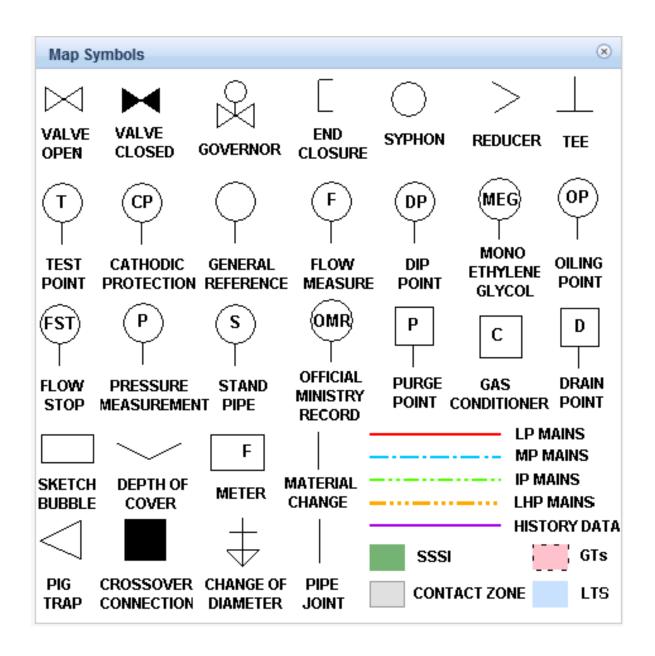


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The following protective and precautionary measures MUST be taken when working in the vicinity of gas mains and services.

It is the responsibility of the property owner or company carrying out the work to make sure they've complied with the relevant legislation and Health and Safety Executive (HSE) guidance, eg HS(G)47. In practice, this means that whoever is carrying out the work MUST obtain gas mains location information and/or maps showing the indicative position of the gas network before any work takes place.

To avoid injury to yourself, your employees, colleagues and the general public you MUST suitably mark the position of the pipes on site.

HS(G)47 outlines best practice that should be followed to ensure you work safely:

- 1. Plan the work, obtain maps.
- 2. Detecting, identifying and marking underground services.
- 3. Safe excavation and safe digging practices.

In addition to the requirements under the Health and Safety At Work etc. Act 1974 to prevent injuries to employees and others (not employee), it is an offence under regulation 15 of the Pipelines Safety Regulations 1996 to cause damage to a pipeline (which includes gas mains and services as well as higher pressure pipelines) so as to give rise to a danger to persons.

You MUST make sure that current full colour copies of our maps are issued to all relevant personnel on site and they're aware of the presence and location of our gas mains and services prior to any excavation.

### In a gas emergency

If you cause a gas leak or suspect a main or service pipe or equipment is leaking, you MUST take the following emergency actions immediately:

- Ask people to move away from the area of the gas escape.
- Call 0800 111 999 immediately.

- 1. Don't attempt to repair the escape or stop the leakage.
- 2. As gas may enter buildings, ask people in the surrounding premises to leave until it's safe for them to return.
- 3. Stop anyone going near the immediate vicinity of the gas escape.
- 4. Prohibit smoking and extinguish all naked flames.
- Don't use mobile phones or other ignition sources.
- 6. Assist our representatives and other emergency services such as the police, ambulance, and fire service as requested.

### Additional reference material

- SGN guidance for Safe Working in the Vicinity of Pipelines & Associated Installations operating >7barg. Applicable for HP only.
- HS(G)47 Avoiding Danger from Underground Services available from hse.gov.uk
- NJUG Utilities Guidance on Positioning and Colour Coding of Apparatus available from njug.org.uk





## Making an enquiry for gas mains or services maps

Please visit our **Dig safely** pages on **sgn.co.uk** for plant protection information and links to our online mapping system and other associated information and guidance.

Our simple and easy to use online mapping system is available 24/7, 365 days a year.

You'll need to register/log in and provide a few details about your site location and the work you'll be carrying out. We'll respond immediately by email.

### What you're likely to be sent

You'll be sent an email with a map. This will be an extract from our gas mains record, showing your site and any of our gas pipes as well as relevant safety information.

We always send out safety information, however we may forward your enquiry on to a local plant protection officer or a pipelines engineer to make direct contact with you depending on the work location.



Example of a gas map

Note: Service pipes are not shown on our maps

## When working near our gas mains and services

### Safe system of work

To satisfy ourselves that work in the vicinity of our gas mains is being carried out safely, we may ask for a copy of your risk assessment and/or method statement paperwork.

Where work falls under the Construction (Design and Management) Regulations 2015 reference to our gas mains and services MUST be made within your site Health and Safety file.

#### **Financial**

Every reasonable precaution MUST be taken to avoid personal injury or damage to our gas network at all times.

If we incur any costs to repair direct or consequential damage or divert any gas main or service, you'll be recharged in full.

### **HSE**

Any damage to our gas mains or services will be subject to legislative reporting responsibilities to the Health and Safety Executive under Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013, Gas Safety Management Regulations 1996, and the Pipelines Safety Regulations 1996.

## Minimum safe working distances

Depending on the activity being undertaken and the gas mains or services you are working within the vicinity of, there are different safe distances that MUST be adhered to. SGN plant protection officers or pipeline engineers will inform you of these if required.

### Surface boxes and manholes

Do not bury or move our surface boxes. Free access MUST be maintained during and after your work. No manhole cover or other structure can be built over, around or under a gas main, and no work is to be carried out that results in a reduction or increase in cover or protection without prior written agreement.

### **Deep excavations**

Adequate protection, approved by us, MUST be applied for any deep excavations in the vicinity of our gas mains and services that may affect its security and integrity. Ground movement around gas mains MUST be prevented. We MUST be contacted if a sewer trench or any other water authority is to be constructed at greater than 1.5 metres depth near a buried gas main or service pipe. You MUST give us detailed drawings showing the line and width of the proposed sewer or other trench, together with the soil group classification of the area concerned.



## Crossing our mains or services

The placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over our gas mains is prohibited unless specifically agreed protective measures (ie the construction of reinforced crossing points) have been carried out. This is particularly important where reductions in side support or ground cover are planned. You MUST NOT carry out any work in servitudes/easements without our prior written consent.

### **Exposed plant**

Where excavations in the vicinity of our gas mains affect its support, the plant MUST be adequately supported and protected in consultation with us and to our satisfaction. It MUST be protected from impact, restraints and thrust blocks, and supports MUST NOT be removed without our agreement.

### Hot work

One of our representatives should be present when welding or other hot work involving naked flames is being carried out near our gas mains, as there's potential for heat damage to plastic pipeline/coatings.

### **Backfilling**

Concrete backfill should not be placed closer than 300mm to our mains. No concrete or hard material should be placed under or adjacent to any of our gas mains. Shuttering MUST be constructed to maintain the stated clearances and prevent fresh concrete encasing our mains or services. Material used for backfill around our gas mains MUST conform to the following:

- If sand, it MUST be well-graded in accordance with BS EN 12620:2002.
- It MUST NOT contain any sharp particles (stones, bricks, lumps or corrosive materials).
- Foamed concrete MUST NOT be used.
- It MUST be laid to a minimum depth of 250mm above the crown of the gas main.

Note: Power ramming MUST NOT take place until a 300mm hand rammed layer has been completed over the crown of the main.

#### **Access**

Free access to our sites, mains and services, including temporary structures and spoil heaps MUST be available at all times.





### Mechanical excavation

Mechanical excavators (including breaker attachments) MUST NOT be used within the following distances from the confirmed location of our gas mains and services shown on our gas maps without prior agreement:

Type of mains and services identification		Hand excavation required inside	Pipe pressure indication shown on map	
Low Pressure (LP)	0 - 75mbar	0.5 metres		
Medium 75mbar to Pressure (MP) 2 bar		0.5 metres		
Intermediate Pressure (IP) 2 - 7 bar		3.0 metres		
High Pressure (HP) Above 7 bar		You must seek approval from us prior to any work		

### Major accident hazard pipelines

### High pressure pipeline

No work is to take place near an HP pipeline until it is agreed with us. After agreement and before any work does take place, the location of our pipeline MUST be marked up and its position confirmed by digging trial holes with our personnel in attendance.





Pipeline markers

### High pressure

We will be involved in any work taking place near high pressure pipelines. We will provide you with additional information that you MUST familiarise yourself with before carrying out any work.

The default method of excavating near high pressure gas pipelines MUST always be by hand.



Wind turbines

The UK Onshore Pipelines Operations Association (UKOPA) has identified the appropriate exclusion zone (distance from the base of the wind turbine mast to the edge of the pipeline) as 1.5 times the turbine height. Contact MUST be made with us during the planning stages of a wind turbine or wind farm.



### Tree planting

If trees or shrubs are to be planted in the vicinity of our gas mains and services, the selection of tree or shrub type and how it's planted MUST be considered carefully. This is to avoid root damage to buried mains or services, and to ensure our subsequent excavations for main repair and maintenance won't damage the trees or shrubs.

Written approval from us MUST be obtained before any tree planting is carried out on a servitude/easement. Any approval we grant to plant trees

The following trees and those of similar size (deciduous or evergreen) MUST NOT be planted within 6m of the centre line of the main: ash, beech, birch, most conifers, elm, maple, lime, horse chestnut, oak, and sycamore. Apple and pear trees are also included in this category.

Dwarf apple stocks may be planted up to 3m of the centre line of the main.



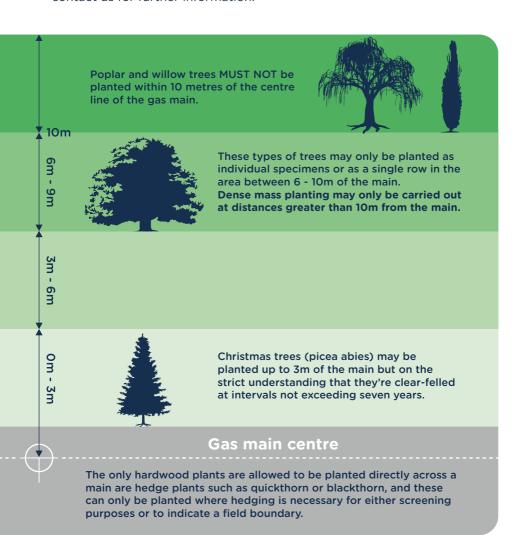
In cases where screening is required, the following are shallow rooting and may be planted close to the gas mains and services: blackthorn, broom, cotoneaster, elder, hazel, laurel, quickthorn, privet, snowberry and most ornamental shrubs.

#### Gas main centre

Raspberries, gooseberries and blackcurrants may be planted on the gas main, but a four metre strip, centred on the main, MUST be left clear at all times.

on a servitude/easement will be subject to us retaining the right to remove any tree, which in our opinion may become a danger to our mains in the future.

The written consent to plant trees will state what area may be planted and also the type of tree. The diagram details the specific species and the distances they MUST be planted from gas mains or services. You MUST contact us for further information.



Note: For further guidance, please refer to NJUG 10.



### Gas services/work in gardens

If you're going to be carrying out work around your home, or a third party is carrying out work on your behalf, we may send you a site map of our gas mains and services but your own gas service won't be marked.

The simplest way to understand the location of your gas service is to know where it enters your house.







< Your gas service pipe usually takes the shortest route to the gas main, as shown on the sample network map/drawing.



We provide a free plant location enquiry service and we're always happy to help.



Visit our Dig safely pages on sgn.co.uk



0800 912 1722 \*

\*All calls are recorded and may be monitored





**Know what's below** 

Protecting you and your family

## **Protecting you and your family**

Are you planning on carrying out any home improvements such as building a conservatory, an extension, a new pond, decking, concreting, landscaping, fencing or planting trees in your garden? You must make sure you have drawings/maps showing any pipes or cables around your home. To obtain copies of our gas drawings/maps please visit our **Dig safely** pages on **sgn.co.uk** and follow the link to our online system.

This service is free of charge.

Our Dig safely page is also where you'll find advice on any protective measures you may need to take before you start work, whether you're planning on doing it yourself or hiring a professional.

Damaging gas pipes is dangerous and could lead to a fire or an explosion. It could also cause large-scale loss of gas supply to the local community and is potentially very expensive.



### Responsibilities

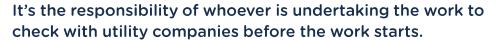
It's the responsibility of whoever is doing the work to make sure they've complied with the relevant legislation and Health and Safety Executive (HSE) guidance.

In practice, this means anyone carrying out work must obtain a copy of any available colour drawings showing the position of buried utilities for reference before and during the project.

#### Non-recording of service pipes >

Individual service pipes are not normally recorded pm gas network drawings. This is accepted practice and reinforced by guidance given in Design, construction and installation of service pipes – approved code of practice, published by the HSE, and IGE/TD/4 – Gas Services, published by the Institute of Gas Engineers and Managers.

# What you need to do when planning a conservatory or house extension, landscaping, fencing or any other groundworks



If you're planning any building or digging work remember that gas pipes, power cables, water pipes and sewers all run underground and could be right beneath your feet.

Construction or excavation work can damage underground services or prevent further maintenance.

Remember that obtaining planning permission or a building warrant from your local authority doesn't normally involve consultation with utility companies so you should get in touch with them when you start planning your project. This will help keep everyone safe.

Please visit our **Dig safely** pages on **sgn.co.uk** for more information and our online mapping system.



### Gas services/work in gardens

If you're going to be carrying out work around your home, or a third party is carrying out work on your behalf and you have requested a map from us, **your own gas service may not be marked**. The simplest way to understand the location of your gas service is to know where it enters your house, as pictured.

Your gas service pipe usually takes the shortest route to the gas main, as shown on the sample network map/drawing above.

If you're unsure and need further help, please contact us and we'll arrange for a Plant Protection officer to contact you.





Any damage, however minor, must be reported to the National Gas Emergency Service

## Planting a tree or landscaping your garden

Tree roots can damage utilities.

If you're planting trees or shrubs, make sure you consider the type of plant, root type and their location in relation to buried gas pipes to avoid any damage. We may need access to repair and maintain our pipes and equipment in the future, and we reserve the right to remove any tree or bush if we need to.

## What happens if you damage a pipe?

### If you damage a gas pipe:

- Call the National Gas Emergency Service on 0800 111 999 immediately
- DON'T attempt to make repairs yourself
- **DON'T** handle or attempt to alter the position of the exposed pipe

### Damaging a gas pipe can result in:

- Major fire/explosion leading to death or serious injury
- Asphyxiation due to gas exposure leading to death or serious injury
- Loss of gas supply to individuals or communities
- Financial costs to you for repair and remedial work
- Enforcement action by the HSE

We will recover all reasonable costs incurred in repairing damaged gas pipes.

## Delivering gas safely, reliably and efficiently

### Your safety is our top priority

We manage the network that distributes natural and green gas to over 5.9 million customers in Scotland and the south of England.

We own and operate 74,000km of gas mains, and associated plant and equipment.

We're committed to delivering gas safely, reliably and efficiently to every one of our customers.

Accidental damage to our pipes could put you or members of the public at risk.

All our
engineers and
contractors carry a
photo ID card with our
company logo on it. Don't be
afraid to check with our
Security team on
0800 015 5170 that the
person on your property
is supposed to
be there.



Service entry

Meter box

## Help

If you're planning any work on or around your property and you need more information, you'll find everything you need on our Dig Safely pages.



sgn.co.uk



0800 912 1722

Smell gas? 0800 111 999

## Follow these six steps if you smell gas:







DO turn off the gas supply at the meter and make sure any gas appliances are turned off



DO call the National Gas Emergency number on 0800 111 999. Lines are open 24 hours a day, 365 days a year



DON'T smoke or use any naked flames



DON'T touch any electrical switches.

Turning a switch on or off could ignite
a gas leak



DON'T enter a cellar if you smell gas, even if your gas meter is located in the cellar

## Safety Advice - Valves



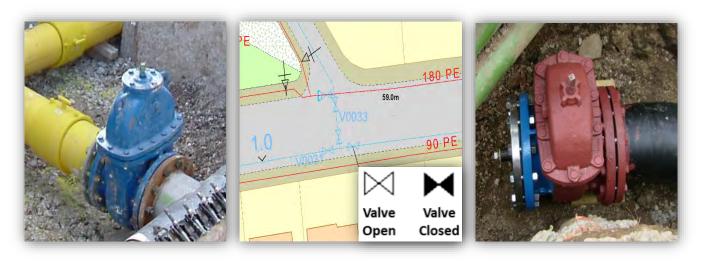
### Guidance when undertaking work near gas valves in our network areas

SGN manages the network that distributes gas to 5.8 million homes and businesses across Scotland and the south of England.

Due to a manufacturing issue, we are currently replacing or upgrading certain valve types that are at risk of bolt failure. In extreme cases, this can lead to gas escapes. This is a safety hazard and we have produced this guide to ensure you undertake adequate safety precautions when working near gas valves.

### **Identifying gas valves**

The images below are an illustration of typical gas valves. Please note, valves come in various colours, shapes and sizes, and you may come across a valve that looks different to those found in the images.



### What should you do?

When planning to work in our network areas, please observe the following points:

- **1.** You must contact us before starting any work activity within **3.0m** of a gas valve identified on our maps.
- **2.** If an unexpected gas valve is exposed you must immediately stop excavation works and report this to us.
- **3.** To protect yourself against the risks associated with exposing a valve, we advise that you contact us when in doubt.

### **Contact details**

If you require further information or need assistance please contact us:

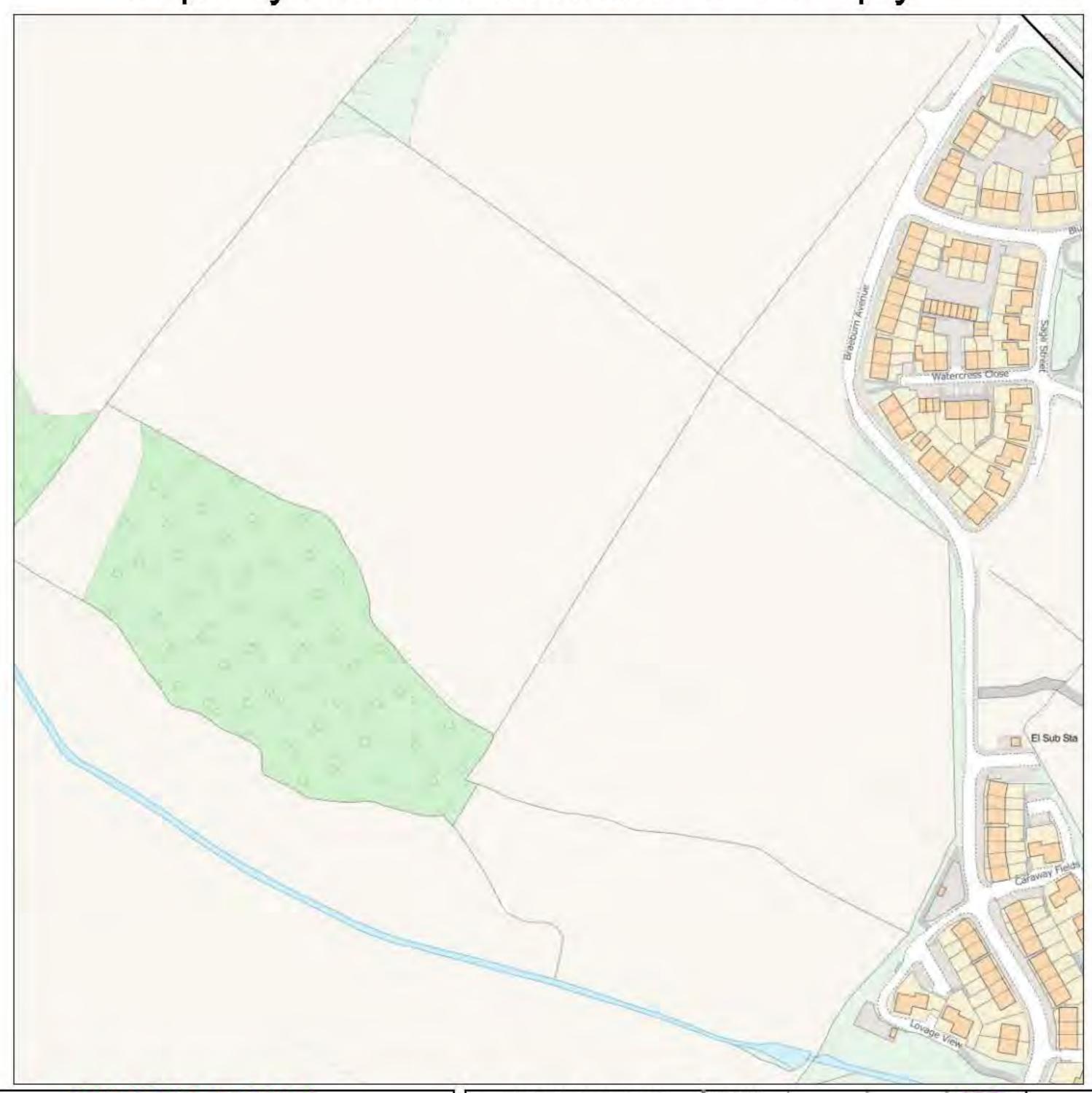
Safety Admin Team: 0800 912 1722

plantlocation@sgn.co.uk

Valve enquiries will be forwarded to a local engineer who will provide further safety information.



## **Appendix E** Telecommunications



## IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



## openreach

### CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

## email cbyd@openreach.co.uk

(Office hours: Monday - Friday 08.00 to 17.00) 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

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office (C) Crown Copyright British Telecommunications plc 100028040

KEY TO BT SYMBOLS		Change Of State	+	Hatchings	<b>XX</b>	
	Planned	Live	Split Coupling	×	Built	^
PCP	12	Ø	Duct Tee		Planned	
Pole	0	0	Building		Inferred	^
Вох			Kiosk	(K)	Duct	/
Manhole			THE MARKET AND ADDRESS OF THE PARTY OF THE P		shown using da	
Cabinet	10	Û	BT Symbols not listed above may be disregarded.  Existing BT Plant may not be recorded.			
					e of preparation ter the date of p	the State of the S
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable	H-H	NN	A.A.	HH		
	11.1	-1-	44.	N/A		

BT Ref: DMU04094T

Map Reference: (centre) SP5755925227 Easting/Northing: (centre) 457559,225227

Issued: 21/09/2020 16:09:56



## IMPORTANT WARNING

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KEY	TO BT SYM	BOLS	Change Of State	+	Hatchings	<b>XX</b>
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Manhole	[2]		The second of the second		shown using da	
Cabinet	1		BT Symbols not listed above may be disregarded.  Existing BT Plant may not be recorded.			
					e of preparation fter the date of p	The state of the s
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable	H-H	NN	A.A.	HH		
Power Duct	44		11	N/A		

BT Ref: KBZ04027N

Map Reference: (centre) SP5783825004 Easting/Northing: (centre) 457838,225004

Issued: 21/09/2020 16:02:17



### IMPORTANT WARNING

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### 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

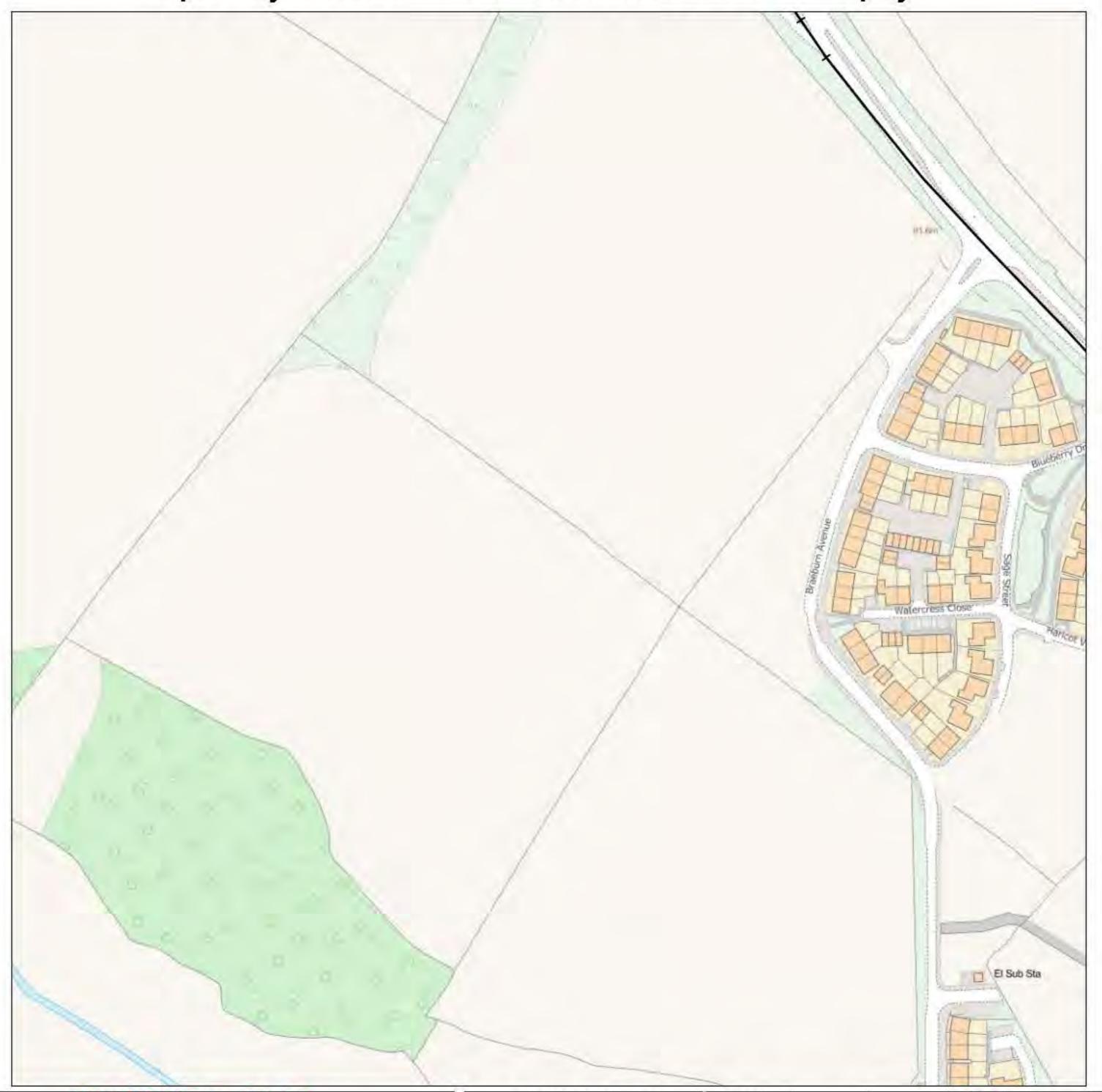
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KEY TO BT SYMBOLS		Change Of State	+	Hatchings	<b>XX</b>	
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Вох			Kiosk	(K)	Duct	/
Manhole			THE MARKET AND ADDRESS OF THE PARTY OF THE P		shown using da	
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Power Cable	HH	NN	11.	HH		
Power Duct	44		44	N/A		

BT Ref: TUY04037E

Map Reference: (centre) SP5808125024 Easting/Northing: (centre) 458081,225024

Issued: 21/09/2020 16:03:37



## IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



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

### Accidents happen

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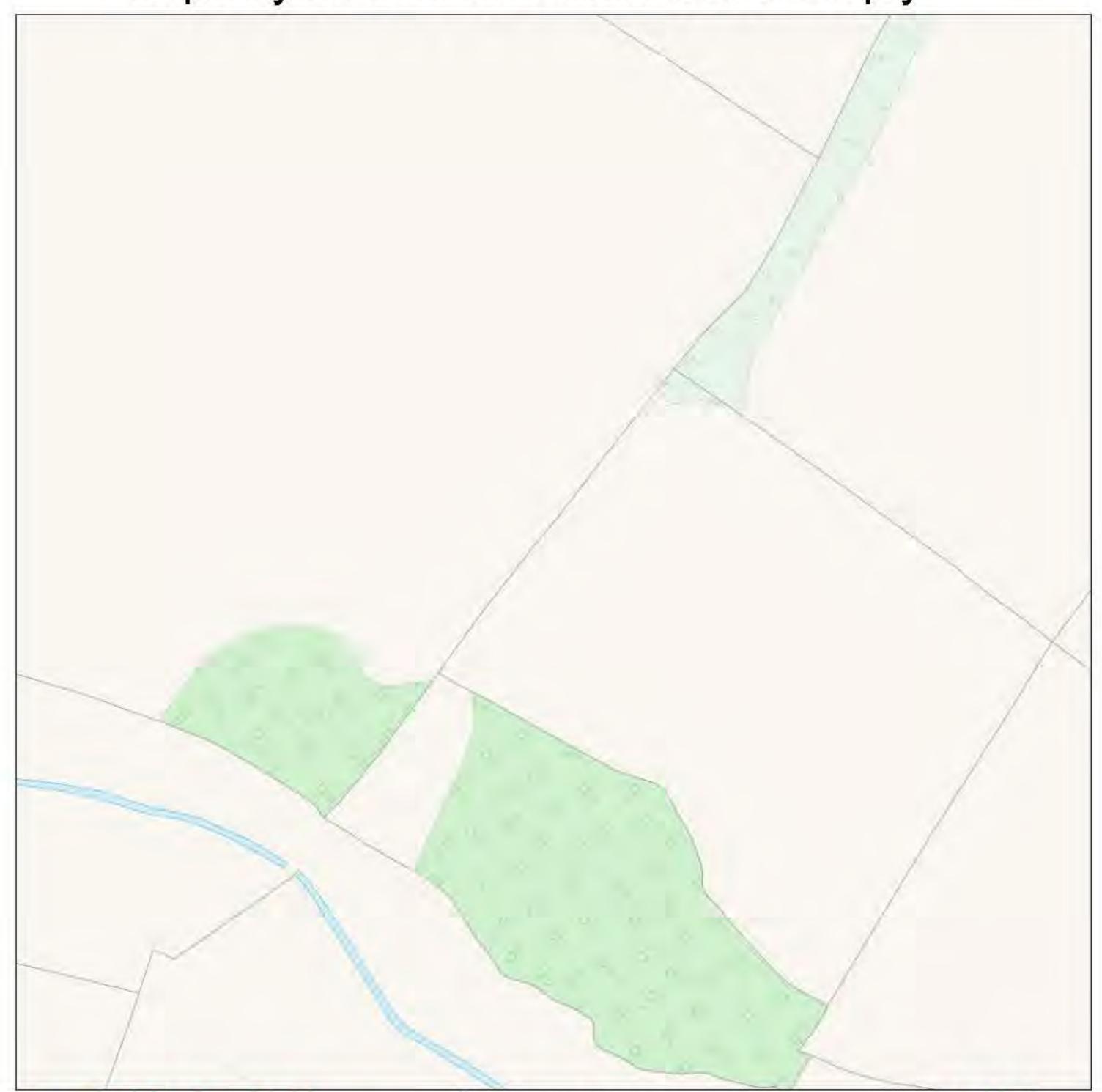
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KEY TO BT SYMBOLS		Change Of State	+	Hatchings	<b>XX</b>	
	Planned	Live	Split Coupling	×	Built	1
PCP	愈	Ø	Duct Tee	*	Planned	
Pole	0	0	Building		Inferred	/
Вох			Kiosk	(K)	Duct	/
Manhole		•	THE PARTY OF THE P		shown using d	
Cabinet	1	Û	BT Symbols not listed above may be disregarded.  Existing BT Plant may not be recorded.			
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	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable	HH	NN	A.A.	HH		
Power Duct	44		44	N/A		

BT Ref: TXB052480

Map Reference: (centre) SP5757725336 Easting/Northing: (centre) 457577,225336

Issued: 17/09/2020 17:24:25



## IMPORTANT WARNING

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(Office hours: Monday - Friday 08.00 to 17.00) 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

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KEY TO BT SYMBOLS			Change Of State	+	Hatchings	<b>XX</b>
	Planned	Live	Split Coupling	×	Built	/
PCP	愈	Ø	Duct Tee		Planned	
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Power Cable	HH	NN	AA.	NN		
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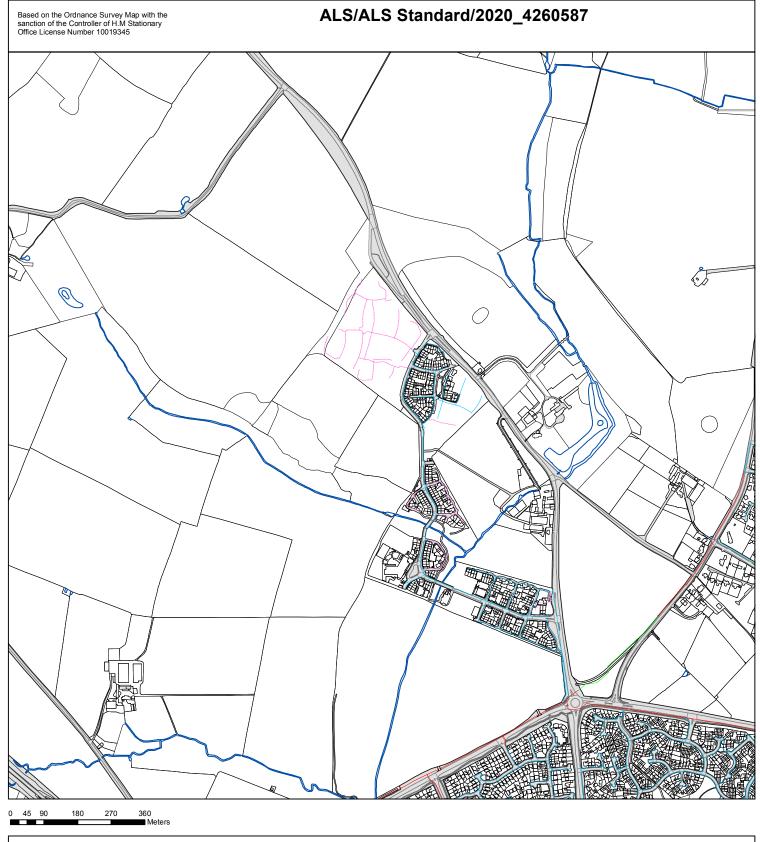
BT Ref: XDK04169X

Map Reference: (centre) SP5740625351 Easting/Northing: (centre) 457406,225351

Issued: 21/09/2020 16:16:55



## **Appendix F** Potable Water



The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified before any works are undertaken. Crown copyright Reserved

Scale:	1:7158
Width:	2000m
Printed By:	G1KANAGA
Print Date:	23/09/2020
Map Centre:	457647,225228
Grid Reference:	SP5725SE

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