

# Cross Section B

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Plotted On : 13/10/2023

Plotted by: sw-cloud-user

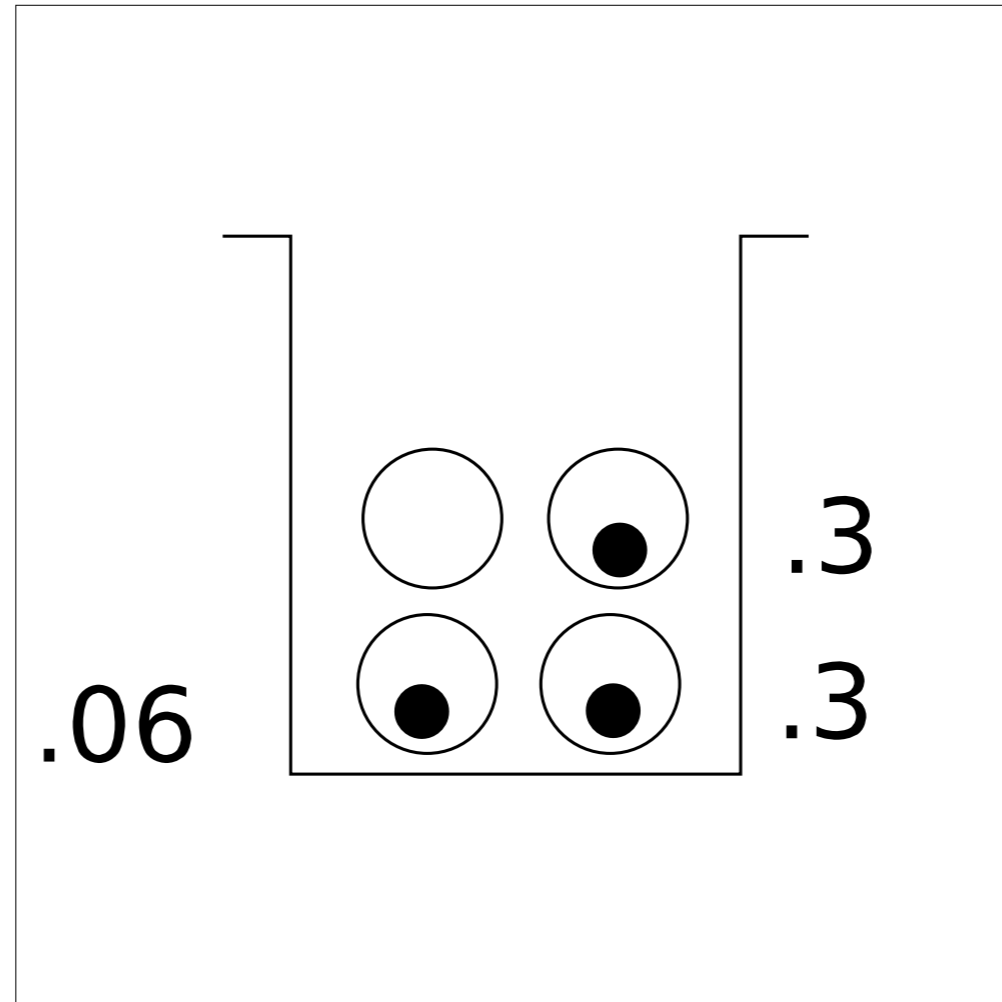
IF ANY DOUBT - ASK! PHONE 0800 056 5866  
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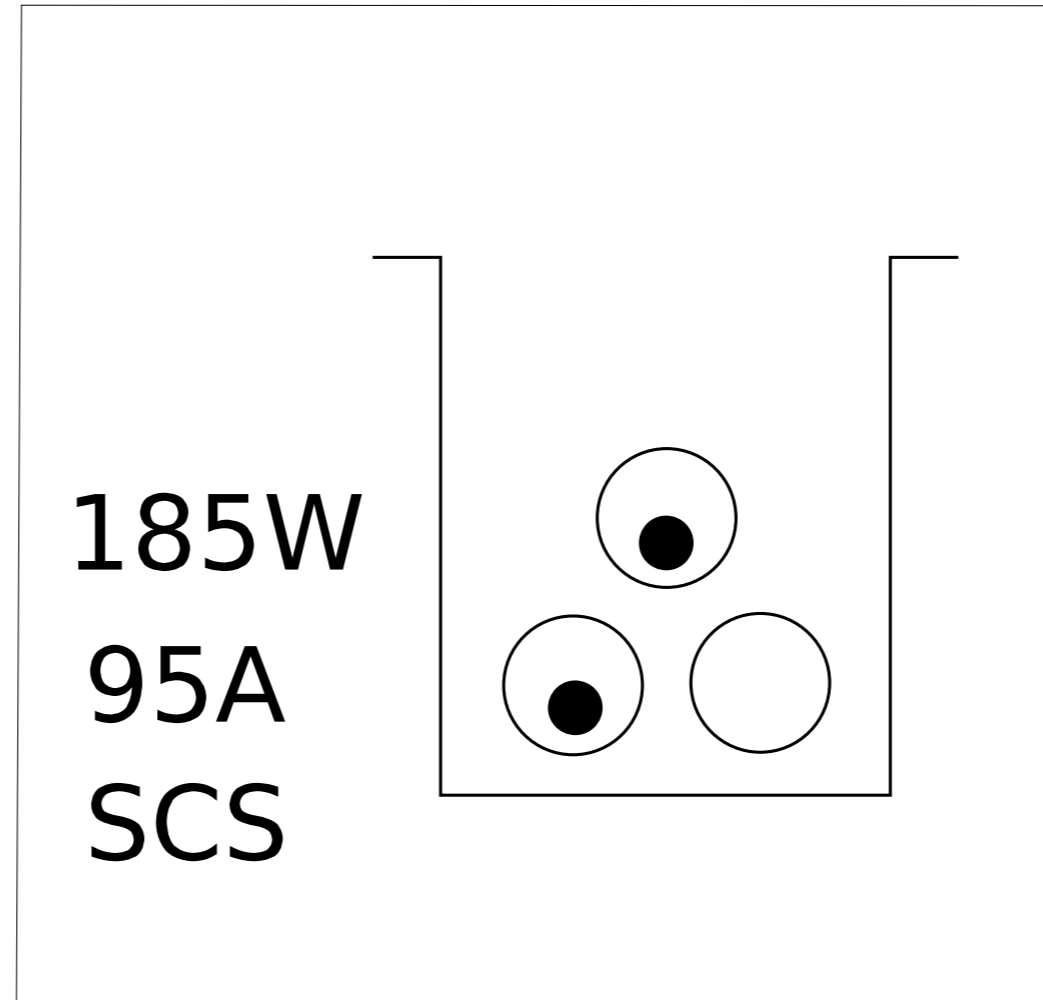
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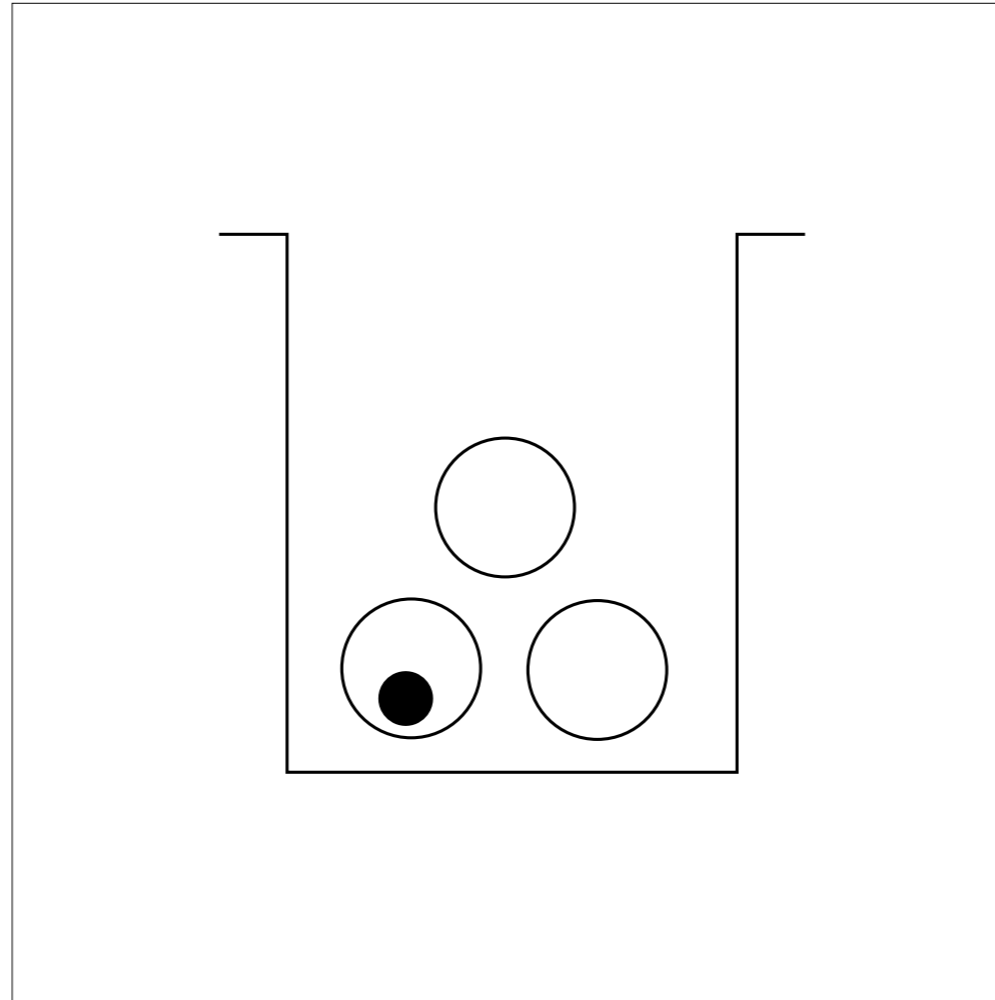
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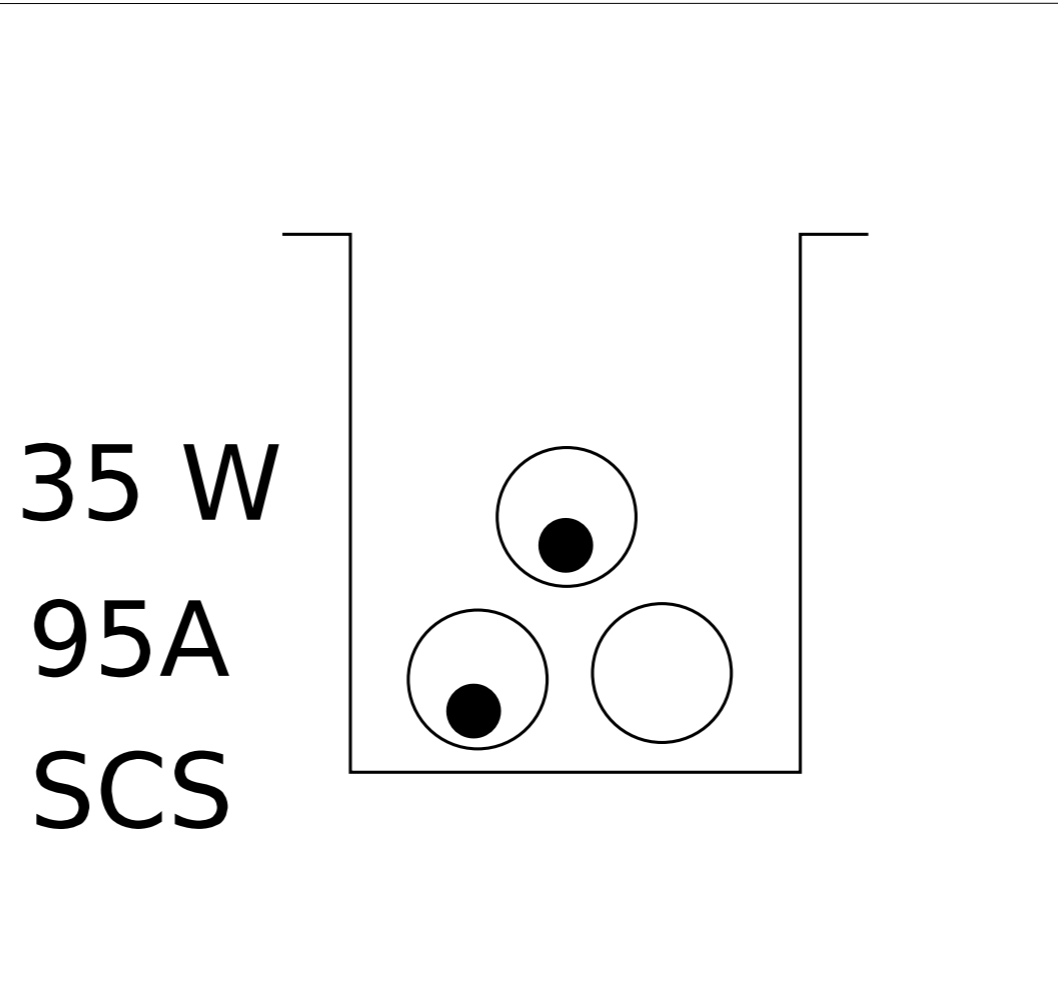
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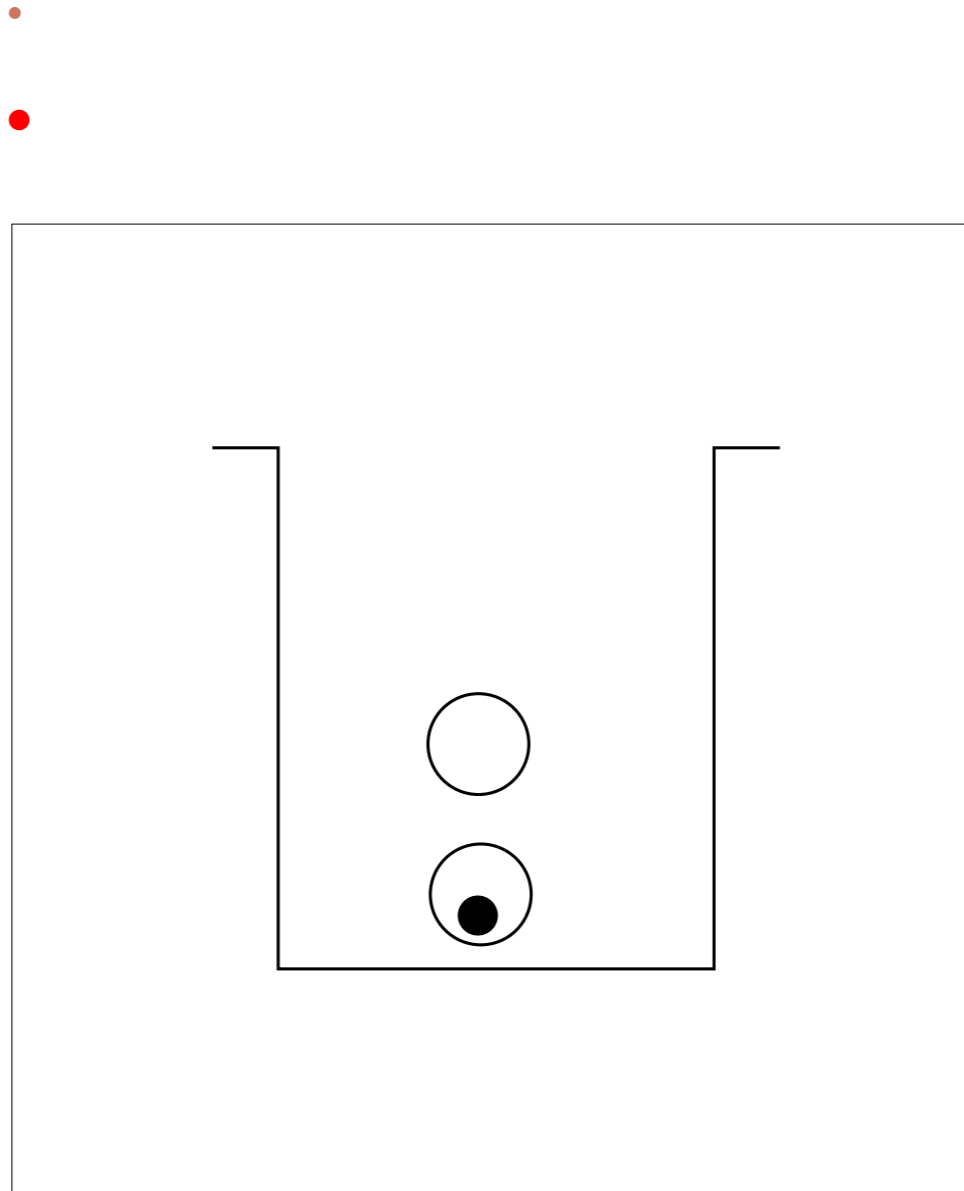


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title:

Cable cross section

Title: C



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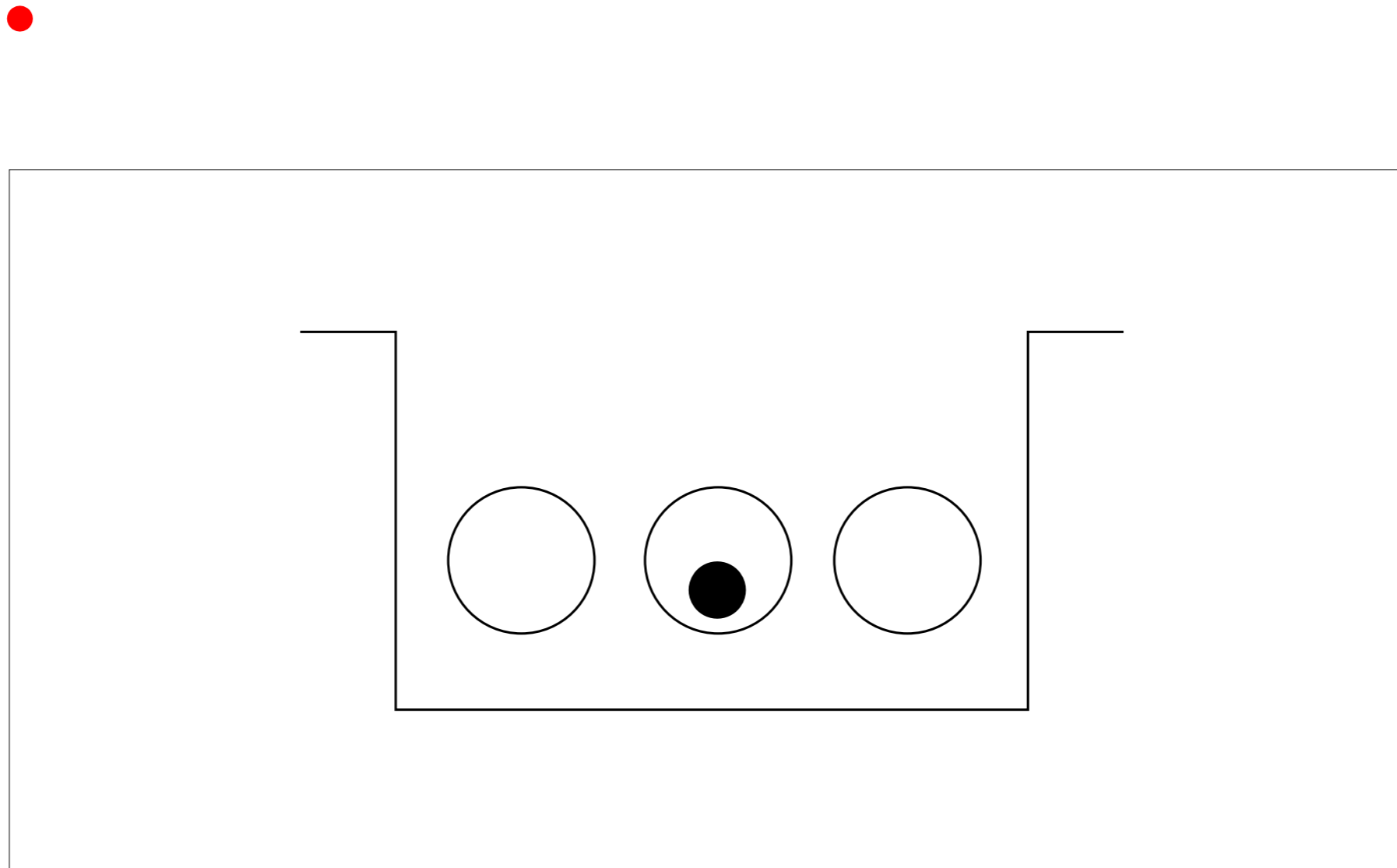


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title:

Cable cross section

Title: A



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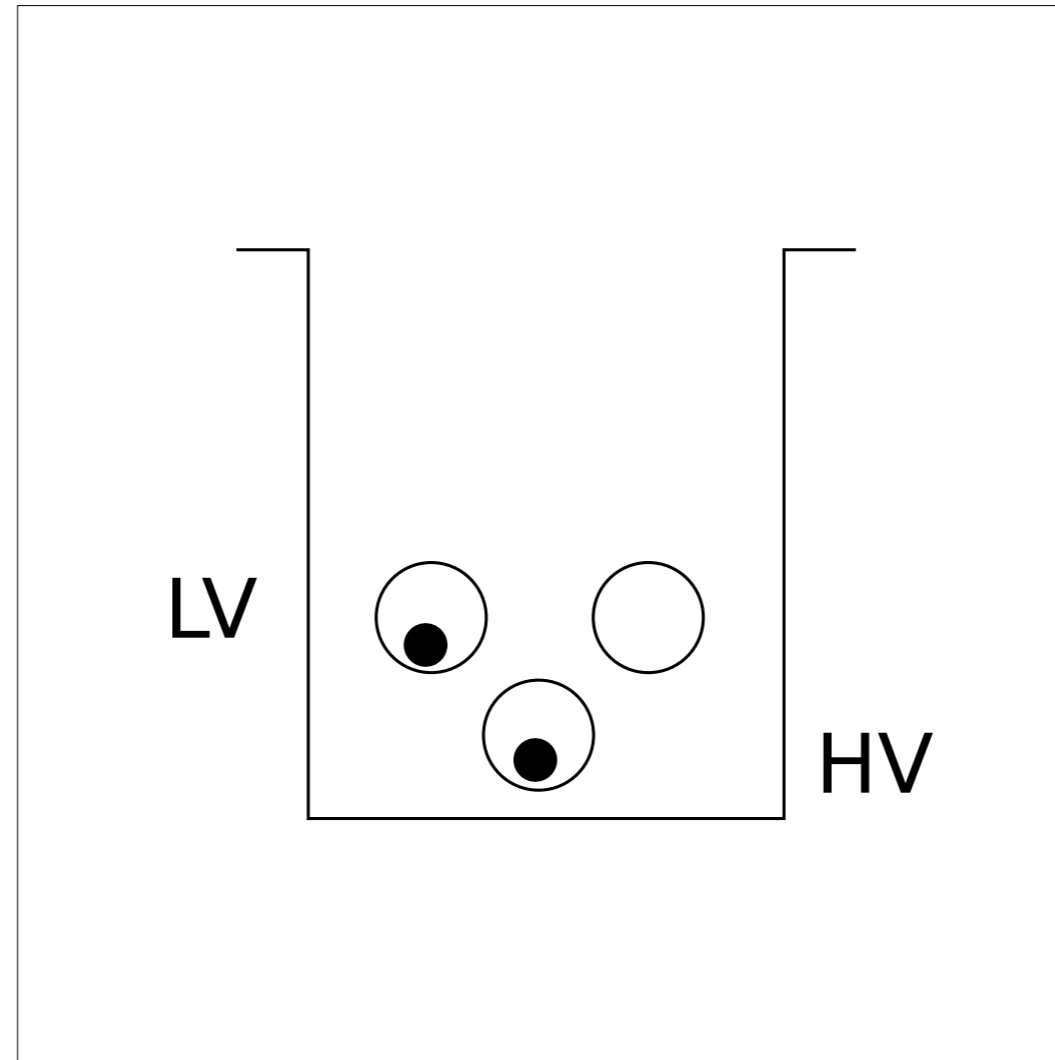
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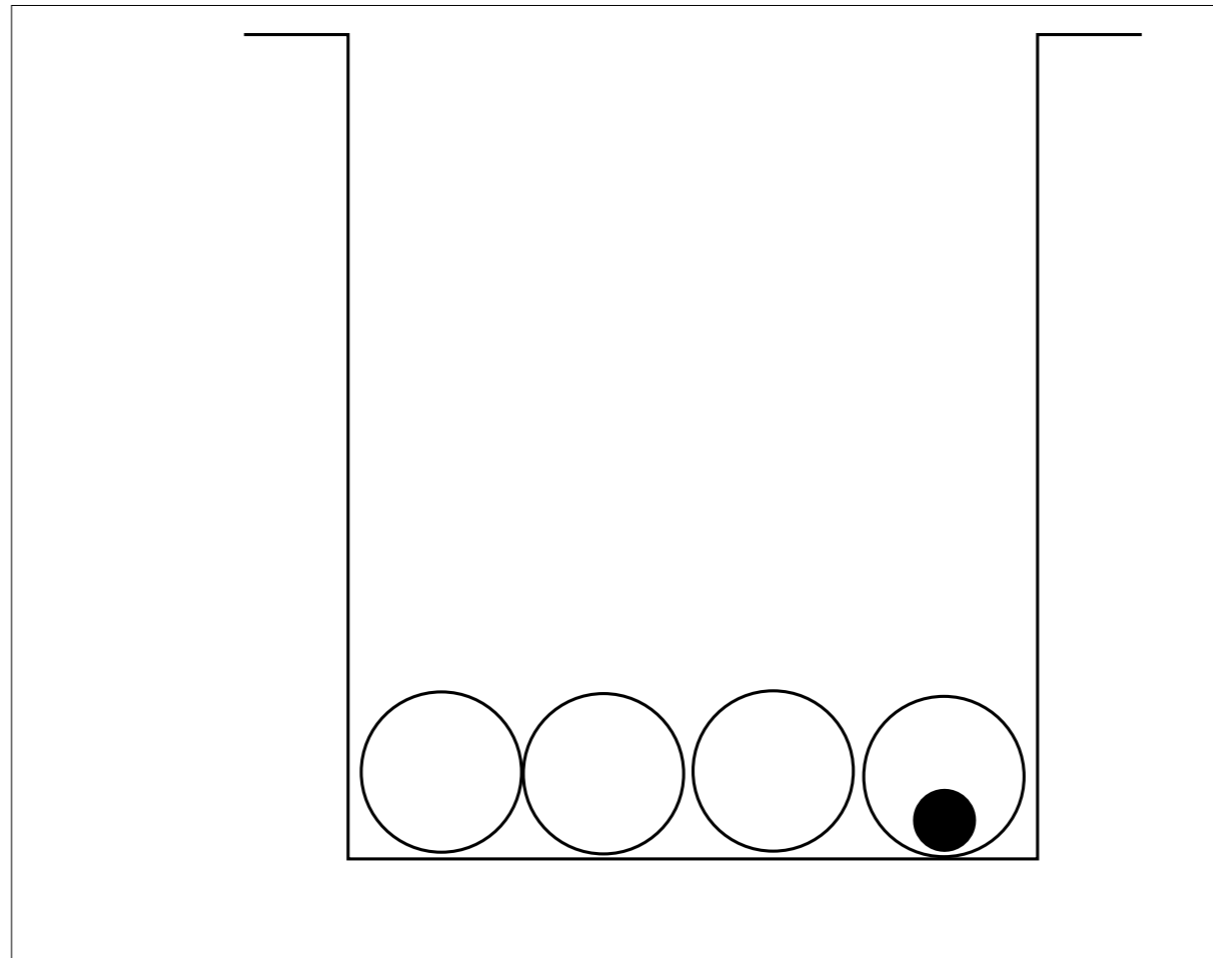
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title:

Cable cross section

Title: A



# Cross Section

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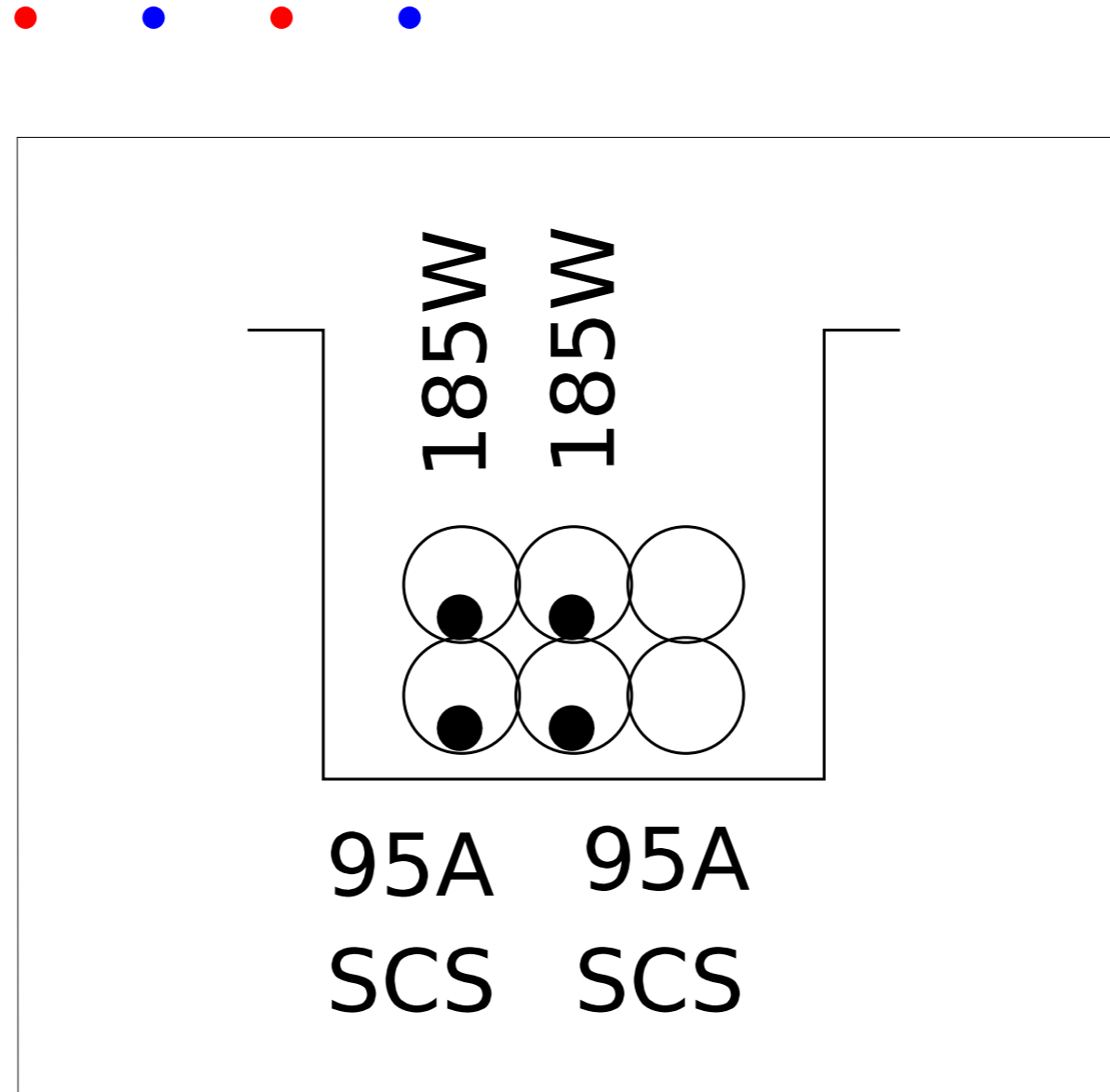
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# Network Records NetMAP Symbols Booklet - South East England

**Version 1.2**

Released October 2010

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(i)

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(ii)

## Guidance notes.

### **Important notice:**

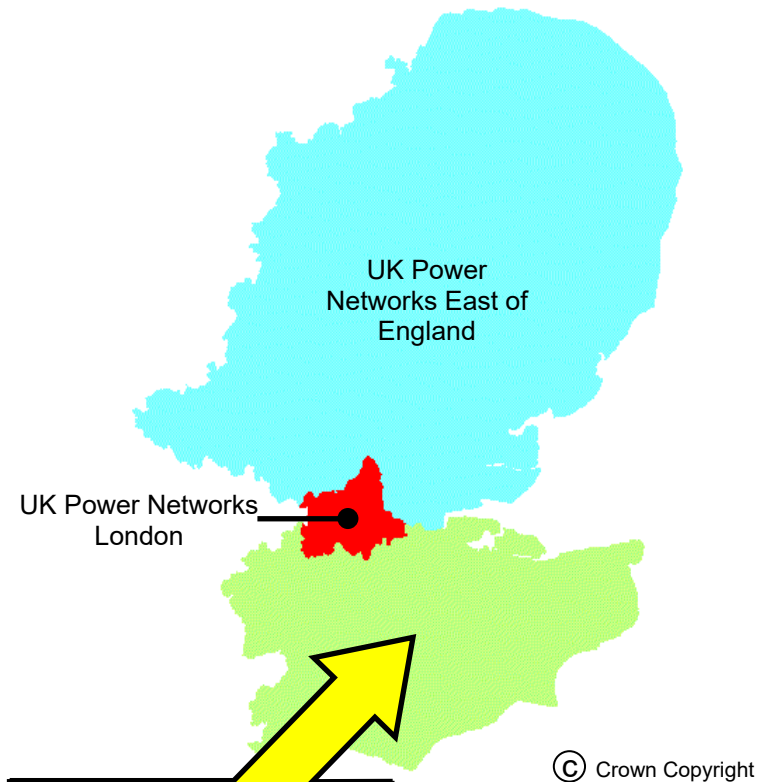
If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance on  
**Tel: 08000 565866.**

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



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

## **The area covered by this guide:**







### **UK Power Networks South East England.**








This is the only area  
where this booklet  
applies

## 1:500 (& 1:1250) view








### Scenery

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

## Scenery for UK Power Networks use only - boxed in red









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

**Scenery for UK Power Networks use only - boxed in red**




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

**section continued on next page**

**Scenery for UK Power Networks use only - boxed in red**














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

### Primary distribution line route (1:500 view)

NetMAP system	Description
	275–400kV National Grid route
	132kV cable route
	33kV cable route

Approximate routes only – see separate record

### Secondary distribution cables (1:500 view)

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

## Secondary distribution cable terminology (1:500 view)

### HV underground

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

### HV overhead

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

### Overhead line materials

sca	Steel cored aluminium
cc	Cadmium copper
st	Steel
sil	Simalec
ccs	Copper covered steel
cpl	Compactal

section continued on next page

## Secondary distribution cable terminology continued (1:500 view)

### LV underground mains and services

W	Waveform
We	Waveform with separate earth wire
H	Hybrid – copper neutral with aluminium phase conductor
He	Hybrid with separate earth wire
ua	PILC (paper insulated lead covered) unarmoured
(no text)	PILC (paper insulated lead covered) with/without armour
XLPE	XLPE (cross linked polyethylene) insulation
DISTR1	PISTA (paper insulated steel tape armour) 4c SAC (solid aluminium core) with lead covered neutral
c/c	Concentric cores
s/c	Split concentric with separated neutral and earth wires
CONSAC	Paper insulated aluminium sheathed 3 core with solid aluminium cores
vb	Vulcanised bitumen/rubber insulation
Capothene	Capothene core insulation
tby	Tape braid and yarn
swa	PILSWA (paper insulated lead steel wire armour)
sac	PILSTA (paper insulated steel tape armour) solid aluminium core
Solidal	4 sector SAC with solid aluminium cores
LSF	Low smoke and fume (orange cable)
Trough	Cable laid in filled trough

### LV overhead mains and services

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

section continued on next page



**Secondary distribution cable terminology continued**  
(1:500 view)










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













**Cable ducts (1:500 view)**

NetMAP system	Description
	<p>Duct 2 way</p> <p>Duct 1 way (no text)</p> <p>Spare duct</p> <p>Cross section arrow</p> <p>Cross section showing: duct, tile depth, tile, single LV cable and HV Triplex cable</p>

**Duct materials**

<p>(no text)</p> <p>pvc</p> <p>st</p> <p>asb</p> <p>fbr</p> <p>wi</p> <p>cp</p> <p>t/e</p>	<p>Earthenware</p> <p>PVC</p> <p>Steel</p> <p>Asbestos</p> <p>Fibre</p> <p>Iron</p> <p>Concrete pipe</p> <p>Trenchless excavation</p>
--	---

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

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

Joints (1:500 view)	
NetMAP system	Description
	Straight (same for HV)
	Pot end (same for HV)
	Branch (same for HV)
	Sleeve repair
	Capped end
	Service to LV main
	Under eaves service
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>□</p> <p>.1 .15 □</p> <p>R - R</p> <p>Y - B</p> <p>B - Y</p> </div>	Jointing phase drawing

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

Miscellaneous (1:500 view)	
NetMAP system	Description
	<p>Underground chamber or draw pit</p> <p>Earth conductor</p> <p>Earth pin</p> <p>Height marker</p> <p>Depth marker</p> <p>Supply point</p> <p>Missing data in or near this location</p> <p>Contaminated land reference</p>

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

### Abbreviations (1:500 view)

NetMAP system	Description
NR	No record
SU	Size unknown
AB	Abandoned
(M)	PME available
V05	Year LV linking verified
MS	Milestone
MP	Marker post
pmt	Pole mounted transformer
pl	Public lighting
TBS	Temporary builder's supply
TCB	Telephone call box
CET	Cable electronically traced
IT	Instrument traced (same as CET)
CAT	Cable avoidance tool (same as CET)
+sl	Street lighting
+sw	Switch wire
2c	2 core
PESL	Public Electricity Supply License
Added	Supplied by SPN
Excluded	Not supplied by SPN
IIP	Assumed open point
VSxxxx	Vacant site
CB	Callender box

### Cable phasing (1:500 view)

<u>Old core colours</u>	<u>Shown on map</u>	<u>New core colours</u>
Neutral	Neutral	Neutral
Red	R	L1
Yellow	Y	L2
Blue	B	L3

Note:- Scott is a different phasing system

### Operational status colours (1:500 view)

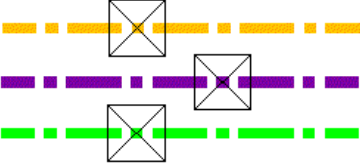
PROPOSAL ———— Symbols and cables appear in ORANGE  
OUT OF SERVICE ———— Cable and joints appear in BLACK  
ABANDONED ———— Cables and joints appear in GREY

### 1:2500 view - for UK Power Networks use only - boxed red






#### Notes

1. No underground HV cables are shown on the 1:2500 view
2. Poles and joint details are similar to the 1:500 view
3. For cable/line information refer to the 1:500 view

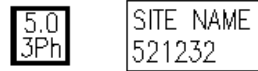

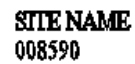
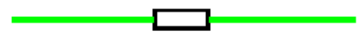

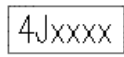
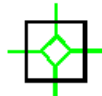
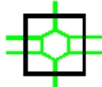

**Primary distribution line route (1:2500 view)**

NetMAP system	Description
	<p>275–400kV National Grid route</p> <p>132kV cable route</p> <p>33kV cable route</p>

**Secondary distribution cables (1:2500 view)**







NetMAP system	Description
	<p>11kV overhead line</p>
	<p>6.6kV overhead line</p>
	<p>&lt;6.6kV overhead line</p>
	<p>LV underground cable</p>
	<p>LV overhead line</p>

### Primary and secondary sites (1:2500 view)

NetMAP system	Description
Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)	
	Ground mounted substation showing capacity, phase, name and SPENS number
	Pole mounted substation showing capacity, phase, name and SPENS number
	Primary substation showing name and SPENS number (no site shown)
	2 way link box
	4 way link box
	Link box identifier
	4 way link box without busbar
	6 way link box without busbar
	8 way link box without busbar

section continued on next page

### Primary and secondary sites continued (1:2500 view)

NetMAP system	Description
	LV distribution pillar
	Voltage regulator
	Voltage balancer
	Open point
	Open point - out of phase
	Earth pin



### Switch types (1:2500 view)







NetMAP system	Description
ABSD	Air brake switch disconnecter
A/R	Auto recloser
A/S	Sectionaliser
FUSE	Fuse
S/D	Surge diverter
PF	Pathfinder
ASL	Automatic sectionalising links
PMR	Pole mounted recloser
PMS	Pole mounted sectionaliser
GVR	Gas vacuum recloser

### 1:10000 view - for UK Power Networks use only - boxed red











#### Notes

1. No EHV cables/overhead lines shown on 1:10000 view.
2. For congested areas print at 1:5000.
3. HV site used instead of branch joint on 1:10000 for connectivity purposes. The site is not displayed until it is selected.

## Secondary distribution cables (1:10000 view)

NetMAP system	Description
	11kV underground cable
	6.6kV underground cable
	<6.6kV underground cable
	11kV overhead line
	6.6kV overhead line
	<6.6kV overhead line

## Primary and secondary sites (1:10000 view)

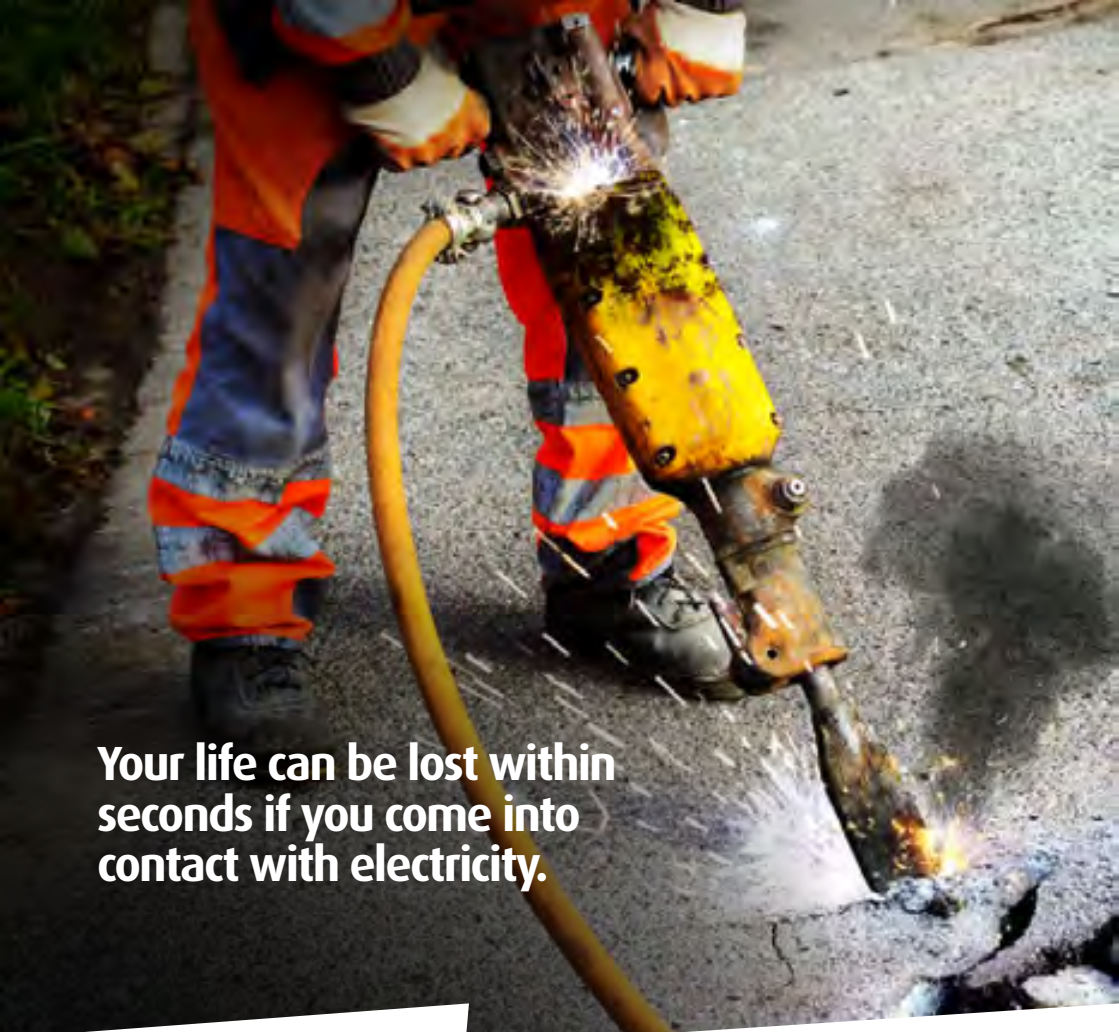
NetMAP system	Description		
Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)			
<table border="1"> <tr> <td>SITE NAME 008590</td> <td></td> </tr> </table>	SITE NAME 008590		Primary substation showing name and SPENS number
SITE NAME 008590			
SITE NAME 521234			
SITE NAME 524514			
SITE NAME 523634			
SITE NAME pmt 527522			
SITE NAME pmt 525743			
SITE NAME pmt 526543			
SITE NAME 527238			



Be Bright

Stay Safe

**Stop!**  
Think before  
you dig!



**Your life can be lost within seconds if you come into contact with electricity.**

**Every year, people are killed or seriously injured when they come into contact with high voltage electricity.**

This can have a far-reaching and devastating effect on family, friends and colleagues.

Distractions, working long hours, rushing to get the job done, can all impact on how we work and our safety.

Taking time to plan, being prepared and focusing on the way we work can help keep us safe.

WOODEN POLES CAN CARRY TELEPHONE AND ELECTRICITY WIRES. **NEVER ASSUME** THE WIRE IS A TELEPHONE WIRE



LINES CAN BE **RE-ENERGISED** AT ANY TIME



**400,000 VOLTS**

ELECTRICITY SYSTEMS CARRY VOLTAGE UP TO 400,000 VOLTS. **EVEN 230 VOLTS (DOMESTIC VOLTAGE) CAN BE LETHAL**

**Be Bright**

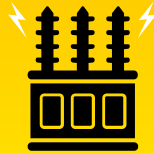
**Stay Safe**

UK Power Networks  
Delivering your electricity



**RUBBER BOOTS WILL NOT PROTECT YOU!**

**OUR NETWORK** DISTRIBUTES ELECTRICITY THROUGH UNDERGROUND CABLES, PYLONS, OVERHEAD POWER LINES, SUBSTATIONS AND OTHER EQUIPMENT



National power cut helpline

**POWER CUT?  
CALL 105**

OR CALL US 24 HOURS A DAY ON  
**0800 31 63 105**

**TAKE NOTICE** OF ANY YELLOW 'DANGER OF DEATH' WARNING SIGNS. AND STAY WELL AWAY!



REMEMBER ELECTRICITY **CAN JUMP GAPS**



**OVERHEAD POWER LINES** ARE OFTEN UNINSULATED (BARE)



**CABLES ARE OUT OF SIGHT** ALWAYS REQUEST CABLE PLANS BEFORE STARTING WORK



**TOUCHING ANYTHING** IN CONTACT WITH ELECTRICAL EQUIPMENT, EVEN THE LOWEST OF VOLTAGES, CAN BE FATAL



CARRY OBJECTS AND EQUIPMENT **HORIZONTALLY AND AT LOW LEVEL** TO THE GROUND



# The electricity network is designed to keep you safe. But how safe are you when you are working?

**UK Power Networks** is the country's biggest electricity distributor, making sure the lights stay on for more than eight million homes and businesses across London, the South East and the East of England.

**The safety of our customers and staff is our top priority.**

Underground cables carry a powerful electrical charge which can be conducted through machinery and equipment with fatal consequences. Anyone working close to live underground cables should take the time to read this simple leaflet and identify the precautions they should be taking.



**WATCH OUR EXCAVATION  
ANIMATION BY SCANNING  
THE QR CODE WITH YOUR  
PHONE CAMERA.**



# Keep well away - Electricity can kill



## Remember:

- The depth and location of cables and services shown on the plans may have changed because of subsequent site alterations
- Be aware that not all cables and services may be shown on the plans
- Cables do not run in straight lines. Underground cables may be deflected around underground obstacles and can change depth
- Wear Personal Protective Equipment to minimise the harm of electric shock and burns



# How can we help?

If you work or live in the UK Power Networks area contact us or look on our website. We provide free information and advice about the precautions and safe working practices to be followed when working close to electrical equipment.

Further advice and guidance is available from the Health and Safety Executive (HSE):

**HSG85 - Electricity at Work – Safe Working Practices**

**GS6 - Avoiding Danger from Overhead Power Lines**

**HSG47 - Avoiding Danger from Underground Services**

## What to do in an emergency

If a mains electricity cable is damaged:

- **STOP WORK IMMEDIATELY**
- Notify UK Power Networks: Dial 105
- If you damage a cable, stay calm, keep clear, and call for help
- Call the emergency services if anyone is injured or there is a fire. Anyone who has received an electric shock should go to hospital as damage may have occurred to the heart
- Always treat the cable(s) as live even if they are not sparking
- Never remove anything that is stuck or in contact with the cable
- Stay clear - keep everyone away until assistance arrives



To request your FREE vehicle cab stickers visit [www.ukpowernetworks.co.uk/internet/en/safety/](http://www.ukpowernetworks.co.uk/internet/en/safety/)

If you are unsure who your network operator is then please visit [www.energynetworks.org](http://www.energynetworks.org)







**Be Bright**

**Stay Safe**

**You could be in danger when carrying out your everyday trades activities such as digging, construction and demolition.**

 **Contact UK Power Networks or Line Search Before U Dig (LSBUD) in advance of the works to obtain relevant cable plans or to request disconnections. The cable plans will only show the indicative route and not the route into the property**


 **Ensure the cable plans are shown to and understood by those on site BEFORE starting work**

 **Confirm the cable location by using a Cable Avoidance Tool (CAT) before digging commences. Once found, mark cable positions with spray paint or similar**


**For cable plans visit  
[www.linesearchbeforeudig.co.uk](http://www.linesearchbeforeudig.co.uk)  
or [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk)**

 **Complete a risk assessment and ensure it covers electrical hazards**

 **Use spades and shovels with insulated handles in preference to forks and picks**

 **Look around for anything in the vicinity that would have an electricity service such as street lights, CCTV cameras, or meter boxes and identify where the cables are**

 **Look for electrical wires, cables and equipment near to where you are going to work and check for warning signs and any other hazards**

 **Contact UK Power Networks to agree a safe method of work if there is a cable encased in concrete, DO NOT BREAK OPEN**

 **Make sure everyone on site is aware of the presence and location of electrical cables**

 **Before demolishing a building make sure supplies are disconnected, preferably well clear of the work area. For guidance on how to arrange a disconnection visit [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk)**

**NATIONAL POWER CUT HELPLINE**

**POWER CUT?  
CALL 105**

**ADD THIS NUMBER TO YOUR  
TELEPHONE CONTACTS LIST**



# Stop! Think before you dig!

#bebrightstaysafe



@UKPowerNetworks



/ukpowernetworks

National power cut helpline

**POWER CUT?  
CALL 105**




Or call us  
24 hours a day on  
**0800 31 63 105**

For safety advice about overhead power lines, disconnections and general enquiries, go to:  
[www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk)

To request your FREE vehicle cab stickers visit  
[www.ukpowernetworks.co.uk/internet/en/safety/](http://www.ukpowernetworks.co.uk/internet/en/safety/)

If you are unsure who your network operator is then please visit  
[www.energynetworks.org](http://www.energynetworks.org)

 what3words

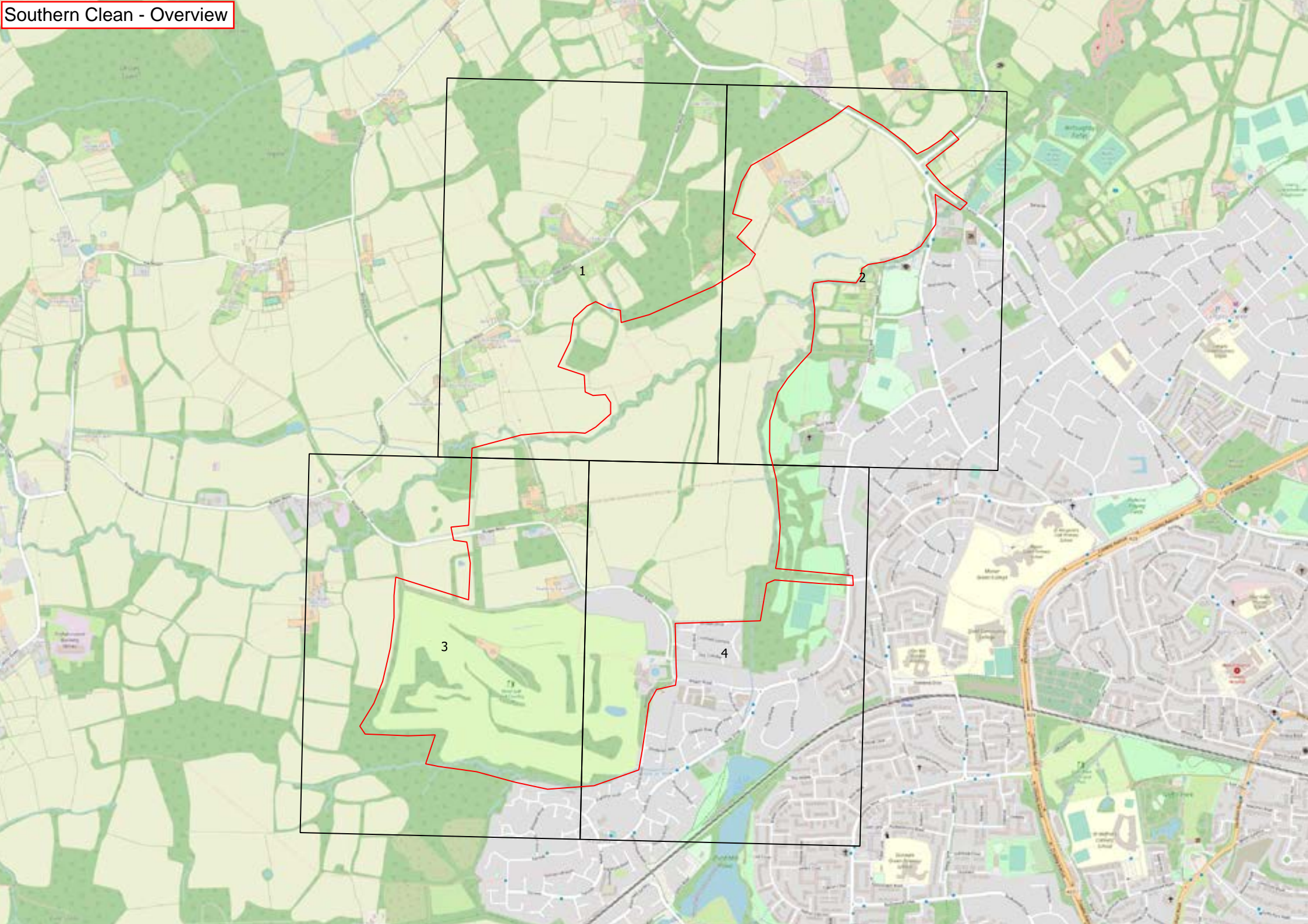


Scan the QR code on your phone to get the app

To report broken or damaged electrical equipment or in an emergency call 0800 31 63 105 or 105 and use what3words to help us locate you faster.



**UK Power Networks**  
Delivering your electricity



1

2

3

4



0m 100m 200m 300m

© Crown copyright and database right 2023 Ordnance Survey 100010737  
Data updated 21/09/23

Scale: 1:200  
Map Coords: 52978.194153  
OU Ref: 10K053 - 2  
Draw: 101023  
Overlaid Plan (A3)  
Powered by dgi

martin.darison@premierenergy.co.uk  
[field - 1]

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accepts no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd © Crown copyright and database right 2023 Ordnance Survey 100010737. This map is to be used for the purposes of stating the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.  
WARNING: BAC pipes are constructed of Boronated Adhesive Cement.  
WARNING: Unknown (UNK) materials may include Boronated Adhesive Cement.





0m 100m 200m 300m

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Data updated 21/09/23

martin.darison@premierenergy.co.uk  
Ifield - 2

Scale: 1:200  
Map Coords: 524878.191653  
Date: 15/10/23  
OU Ref: 10K035 - 4  
Drawn: [Name]  
Checked: [Name]  
Approved: [Name]

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WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.  
Produced by dgi





0m 100m 200m 300m

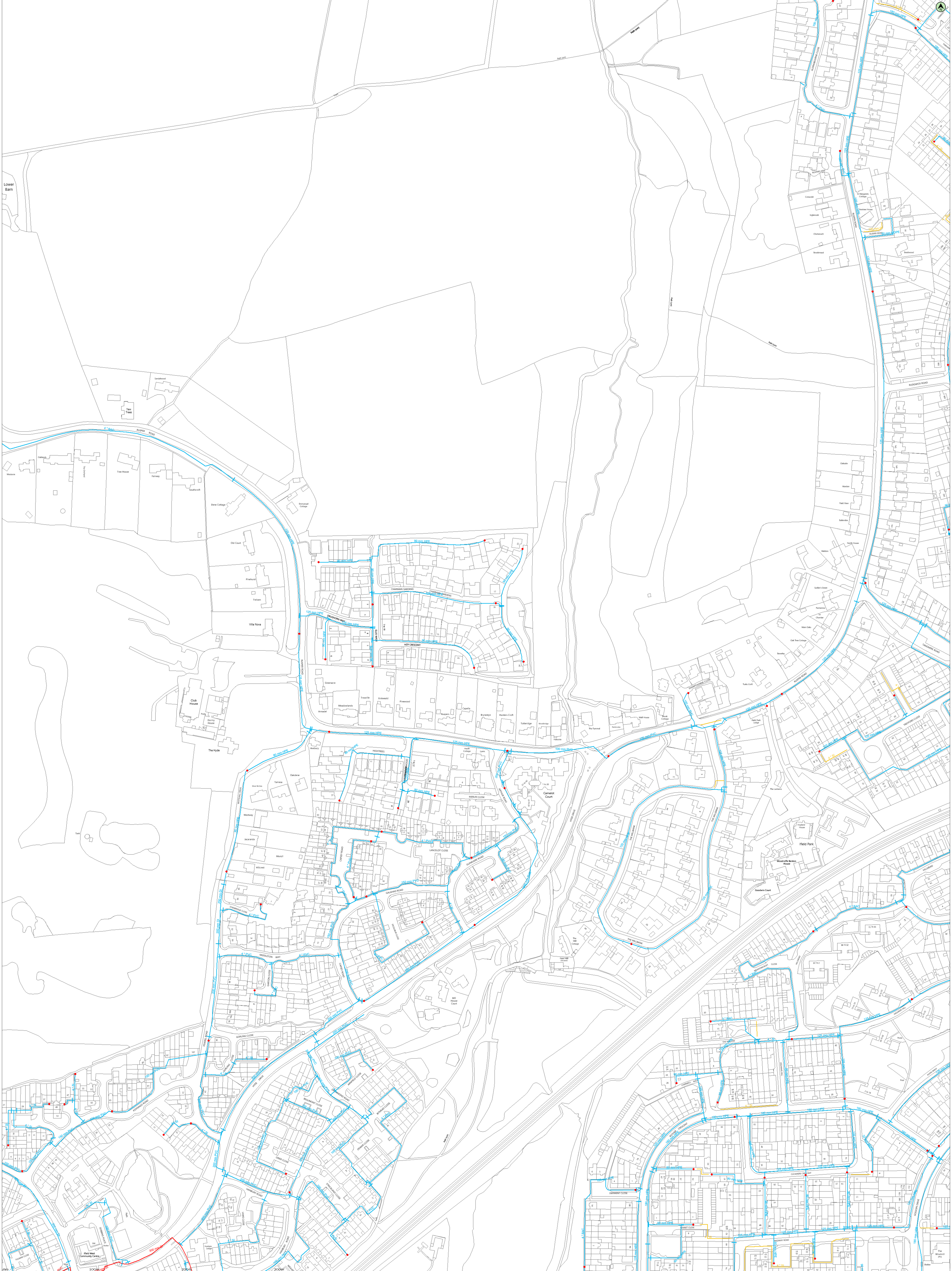
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Data updated 21/09/23

Scale: 1:2500  
Map Centre: 52418.196653  
Grid Ref: 10K053.4  
Draw: 101023  
Over View Plan (O) -  
Produced by dgipl

martin.darison@premierenergy.co.uk  
[Grid - 3]

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd © Crown copyright and database right 2023 Ordnance Survey 100010773. This map is to be used for the purposes of showing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.  
WARNING: BAC pipes are constructed of Boronated Adhesive Cement.  
WARNING: Unknown (UNK) materials may include Boronated Adhesive Cement.





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 Data updated 21/09/23

	Water Mains		Water Meter
	Proposed Water		Water Main
	Trunk Water		Water Main
	Non-pressurised Water		Water Main
	Pressurised Water		Water Main
	Water Main		Water Main

martin.darlison@premierenergy.co.uk  
 10/01/24

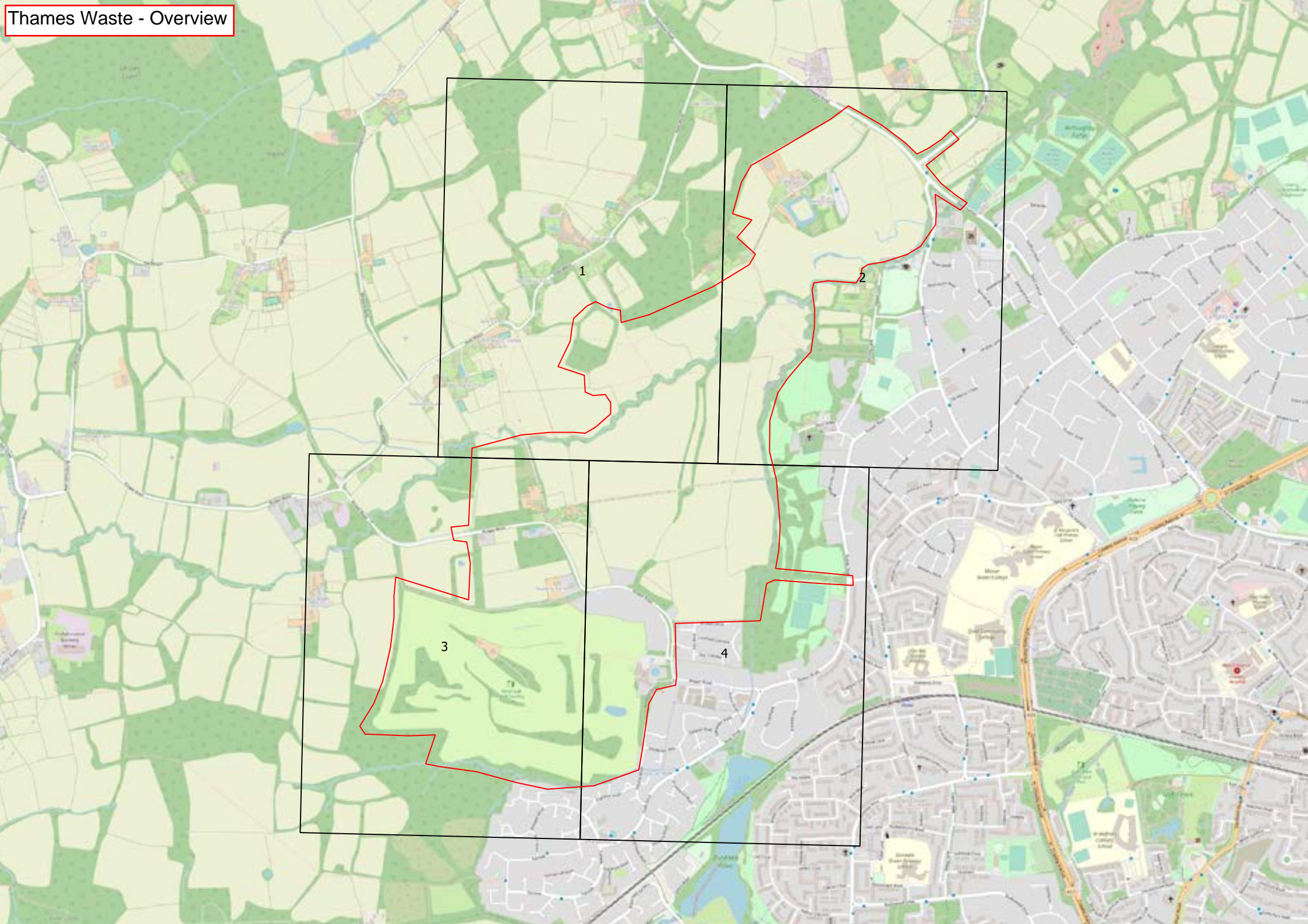
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 Map Centre: 52418.19665  
 Date: 10/01/24  
 Grid Ref: 10K053.8  
 Drawn: Water Plan 01  
 Produced by: dpl



The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accepts no responsibility in the event of inaccuracy. The actual positions should be determined on site. This map is produced by Southern Water Services Ltd © Crown copyright and database right 2023 Ordnance Survey 100010723. This map is to be used for the purposes of relating the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Boronated Adhesive Cement.  
 WARNING: Unknown (UNO) materials may include Boronated Adhesive Cement.

# Thames Waste - Overview



1

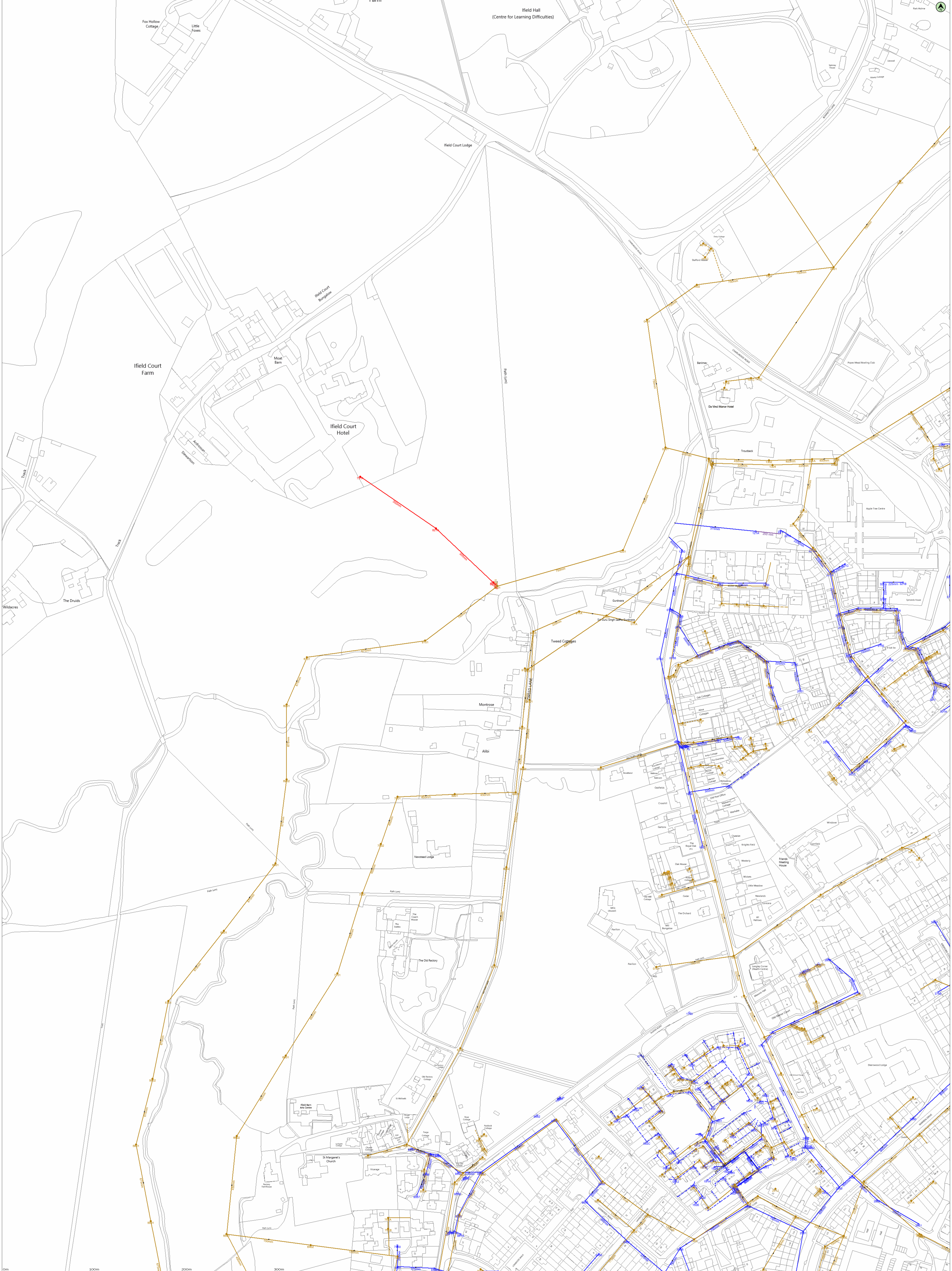
2

3

4







0m 100m 200m 300m

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 Data updated: 06/09/23

Scale: 1:250  
 Map Coords: 524978, 106155  
 Date: 15/10/23  
 Our Ref: 10K053-3  
 Version: Plan 02  
 Produced by: dgl

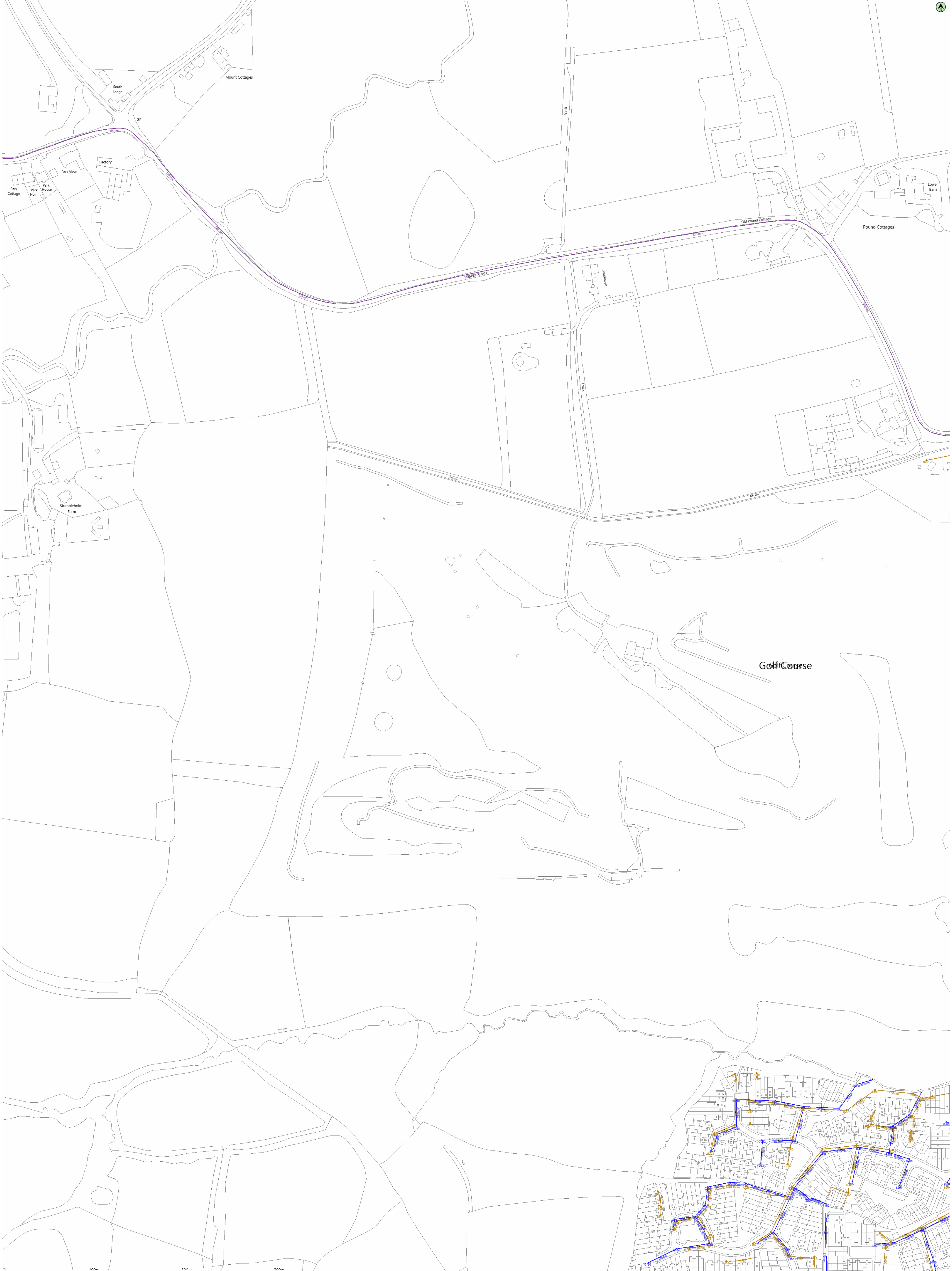
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<ul style="list-style-type: none"> <li>Fixed Sewer</li> <li>Surface Sewer</li> <li>Combined Sewer</li> <li>Abandoned Sewer</li> <li>Pressure Main</li> <li>Private Asset</li> <li>Proposed Asset</li> <li>Other apparatus as defined type</li> </ul>	<ul style="list-style-type: none"> <li>Fixed Manhole</li> <li>Surface Manhole</li> <li>Combined Manhole</li> <li>Abandoned Manhole</li> <li>Other Manhole</li> <li>End Box</li> <li>S104 Boundary</li> </ul>
--	--

martin.darison@premierenergy.co.uk  
 01603 212121







0m 100m 200m 300m

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(Data updated 06/09/23)

Scale: 1:200  
Map Centre: 523418.196653  
Date: 15/10/23  
OU Ref: 100003-1  
Version: Plan 02  
Produced by: dgpl

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<ul style="list-style-type: none"> <li>Foul Sewer</li> <li>Surface Sewer</li> <li>Combined Sewer</li> <li>Abandoned Sewer</li> <li>Pressure Main</li> <li>Private Asset</li> <li>Proposed Asset</li> <li>Other Manhole</li> <li>End Run</li> <li>S104 Boundary</li> </ul>	<ul style="list-style-type: none"> <li>Foul Manhole</li> <li>Surface Manhole</li> <li>Combined Manhole</li> <li>Abandoned Manhole</li> <li>Other Manhole</li> <li>End Run</li> <li>S104 Boundary</li> </ul>
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martin.darlison@premierenergy.co.uk  
[Grid - 3]

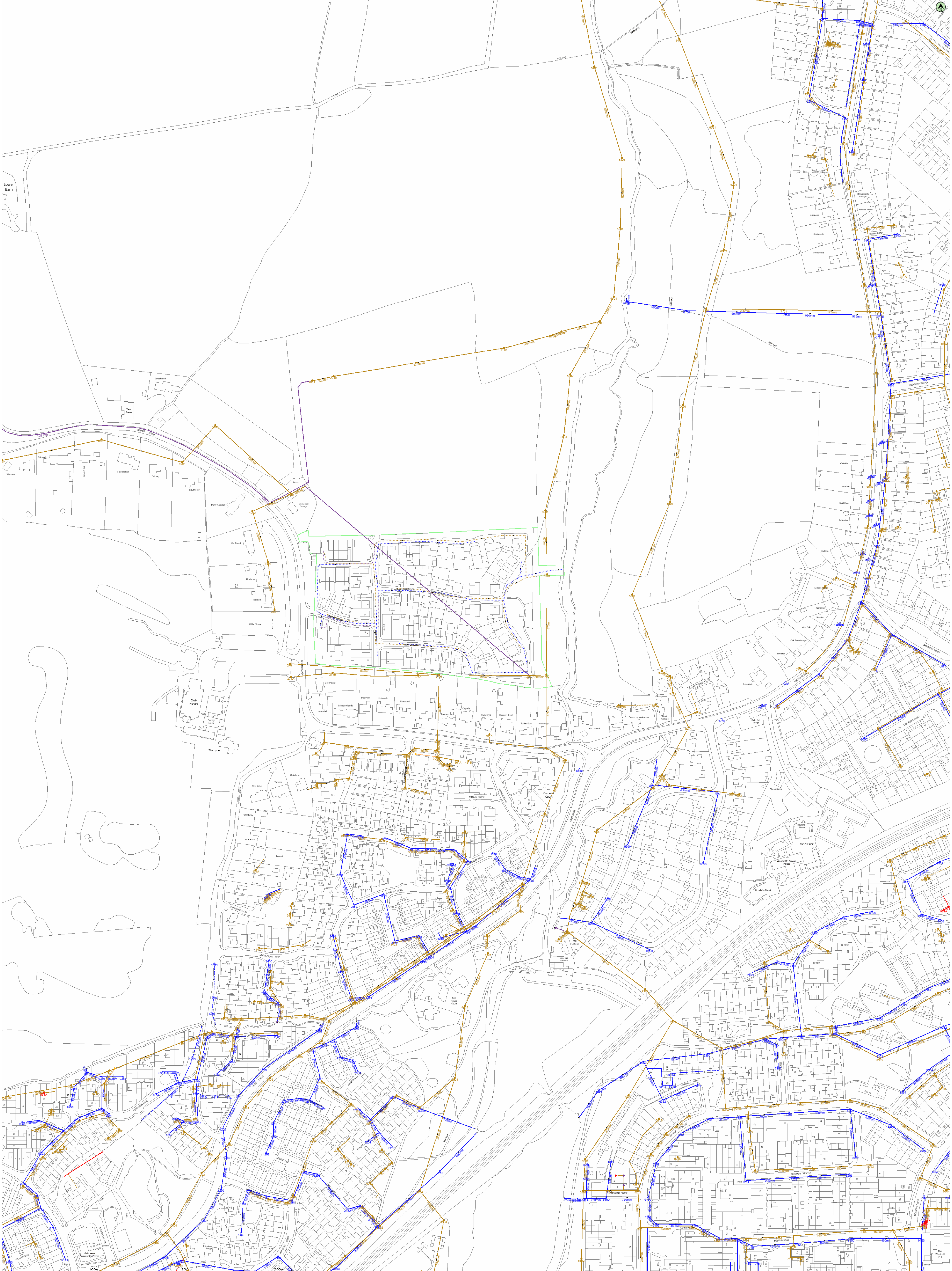


Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
6101	523669	136187	F	82.9	80.88	2.22
6102	523656	136175	F	83.71	80.87	2.84
6103	523671	136155	F	84.68	82.22	2.46
6104	523673	136144	F	85.06	82.47	2.59
6105	523647	136141	F	84.74	82.75	1.99
6106	523635	136170	F	83.72	81.21	2.51
6107	523632	136160	F	84.12	82.1	2.02
611A	523689	136126	F	-	-	-
611B	523617	136194	F	-	-	-
611C	523616	136185	F	-	-	-
611D	523616	136176	F	-	-	-
6150	523666	136188	S	82.9	81.2	1.7
6151	523655	136175	S	83.65	81.33	2.32
6152	523663	136163	S	84.21	82.23	1.98
6153	523671	136146	S	84.98	82.91	2.07
6154	523635	136140	S	84.85	83.14	1.71
6155	523604	136125	S	84.88	83.43	1.45
6156	523633	136172	S	83.72	81.41	2.31
6157	523631	136162	S	84.05	82.47	1.88
6201	523698	136274	F	79.38	76.7	2.58
6202	523676	136265	F	79.53	77.23	2.3
6203	523672	136245	F	80.26	78.34	1.92
6204	523670	136205	F	82.6	80.64	1.96
6205	523692	136209	F	82.43	80.38	2.05
621A	523615	136202	F	-	-	-
6250	523679	136264	S	79.57	77.28	1.69
6251	523675	136248	S	80.2	78.98	1.22
6252	523669	136207	S	82.6	81.06	1.54
6253	523693	136212	S	82.31	80.83	1.48
6301	523699	136302	F	78.7	76.13	2.57
631A	523698	136329	F	-	-	-
631B	523699	136323	F	-	-	-
7103	523755	136196	F	81.81	79.86	1.95
7104	523737	136158	F	83.69	81.55	2.14
7105	523750	136144	F	84.24	81.77	2.47
7106	523756	136133	F	84.65	82.49	2.16
7107	523718	136146	F	84.73	83.07	1.66
711A	523794	136132	F	-	-	-
711B	523789	136131	F	-	-	-
711C	523707	136128	F	-	-	-
7150	523758	136196	S	81.67	80.22	1.45
7151	523740	136158	S	83.56	82.04	1.52
7155	523754	136141	S	84.33	82.25	2.08
7156	523759	136131	S	84.83	83.1	1.73
7157	523723	136147	S	84.55	83.15	1.4
7158	523796	136159	S	-	-	-
7159	523797	136189	S	81.7	-	-
7160	523783	136195	S	-	-	-
7161	523778	136194	S	-	-	-
7201	523741	136298	F	78.85	75.17	3.48
7202	523774	136292	F	77.7	74.69	3.01
7203	523761	136281	F	78.2	76.12	2.08
7204	523793	136248	F	78.27	76.37	1.9
7205	523760	136207	F	81.22	79.57	1.65
7206	523710	136208	F	82.27	80.32	1.95
721A	523714	136290	F	-	-	-
721B	523715	136276	F	-	-	-
721C	523755	136231	F	-	-	-
721D	523758	136249	F	-	-	-
7250	523773	136294	S	77.53	76.09	1.44
7251	523763	136257	S	78.16	76.61	1.55
7252	523728	136258	S	79.09	77.89	1.2
7253	523726	136232	S	80.25	78.67	1.68
7254	523700	136272	S	79.32	77.64	1.68
7255	523709	136211	S	82.05	80.67	1.38
7256	523735	136203	S	81.98	80.54	1.44
7257	523762	136206	S	81.17	79.67	1.5
7258	523794	136245	S	78.32	77.04	1.28
7301	523722	136200	S	-	-	-
731A	523722	136326	F	-	-	-
731B	523722	136330	F	-	-	-
7350	523700	136302	S	78.56	76.86	1.7
7351	523742	136300	S	78.35	76.53	1.82
8101	523899	136163	F	82.4	80.05	2.35
8102	523867	136148	F	83.65	80.47	2.58
8103	523855	136157	F	82.37	80.56	1.81
8104	523861	136143	F	83.39	80.73	2.66
811A	523821	136200	F	-	-	-
8150	523850	136145	S	83.44	81.04	2.4
8151	523871	136147	S	83.07	80.91	2.16
8201	523819	136290	F	75.64	73.85	1.79
8202	523890	136284	F	75.73	72.16	3.57
8203	523870	136271	F	75.92	73.26	2.66
8204	523869	136247	F	77.22	74.52	2.7
8205	523830	136252	F	77.57	75.44	2.13
8206	523822	136211	F	79.38	77.3	2.08
8207	523854	136273	F	76.07	73.46	2.61
821B	523890	136259	F	-	-	-
821D	523889	136268	F	-	-	-
821E	523849	136288	F	-	-	-
821F	523841	136273	F	-	-	-
821G	523846	136275	F	-	-	-
821H	523845	136280	F	-	-	-
821I	523847	136284	F	-	-	-
8250	523811	136292	S	75.86	74.56	1.3
8251	523887	136285	S	75.79	73.25	2.54
8252	523869	136273	S	75.86	74.13	1.73
8253	523865	136244	S	77.3	75.18	2.12
8254	523833	136250	S	77.56	75.66	1.9
8255	523825	136212	S	79.3	77.46	1.84
8256	523887	136237	S	77.41	75.92	1.49
8257	523876	136208	S	78.77	77.16	1.61
8301	523850	136312	F	73.61	72.39	1.22
8302	523891	136308	F	73.31	71.42	1.89
8350	523830	136318	S	74.51	73.27	1.24
9152	523902	136161	S	82.35	80.63	1.72
9155	523913	136127	S	83.73	81.77	1.96
9204	523928	136208	F	78.94	77	1.94
9254	523928	136212	S	78.68	77.66	1.02
9256	523927	136277	S	74.8	73.73	1.07
9301	523901	136303	F	73.57	71.08	2.49
9302	523912	136305	F	-	-	-
9901	523906	136993	F	-	-	-

Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
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Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
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Manhole Reference	Easting	Northing	Liquid Type	Cover Level	Invert Level	Depth to Invert
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 Date updated: 06/09/23

Foul Sewer  
 Surface Sewer  
 Combined Sewer  
 Abandoned Sewer  
 Private Main  
 Proposed Asset  
 Other Manhole  
 End Stop  
 S104 Boundary

Foul Manhole  
 Surface Manhole  
 Combined Manhole  
 Abandoned Manhole  
 Other Manhole  
 End Stop  
 S104 Boundary

martin.darison@premierenergy.co.uk  
 [Grid - 4]

Scale: 1:2500  
 Map Centre: 524718.196650  
 Date: 15/10/23  
 Out Ref: 100033-7  
 Worksheet: Plan 00



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Our Ref: 31116022      Your Ref: Land West of Ifield - 1

Monday, 09 October 2023

Max Allfrey  
Premier House Premier House Daux Road  
Billingshurst  
West Sussex  
RH14 9SJ

Dear Max Allfrey

Thank you for your enquiry dated Monday, 09 October 2023

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.

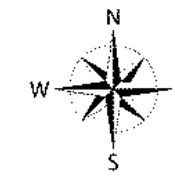
It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge to you or the organisation carrying out work on your behalf. Your works should be carried out in such a manner that 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](http://sgn.co.uk)**  
Tel: 0800 912 1722



# Overview Map of Worksite



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

Date Requested: 09/10/2023  
 Job Reference: 31116022  
 Site Location: 524726 138201  
 Requested by: Mr Max Allfrey

Your Scheme/Reference: Land West of Ifield - 1

Scale: 1:5125 (When plotted at A3)

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**

- Low Pressure Mains —
- Medium Pressure Mains - - -
- Intermediate Pressure Mains - · - · -
- High Pressure Mains - · - · -

- LAs
- GTs
- SSSIs

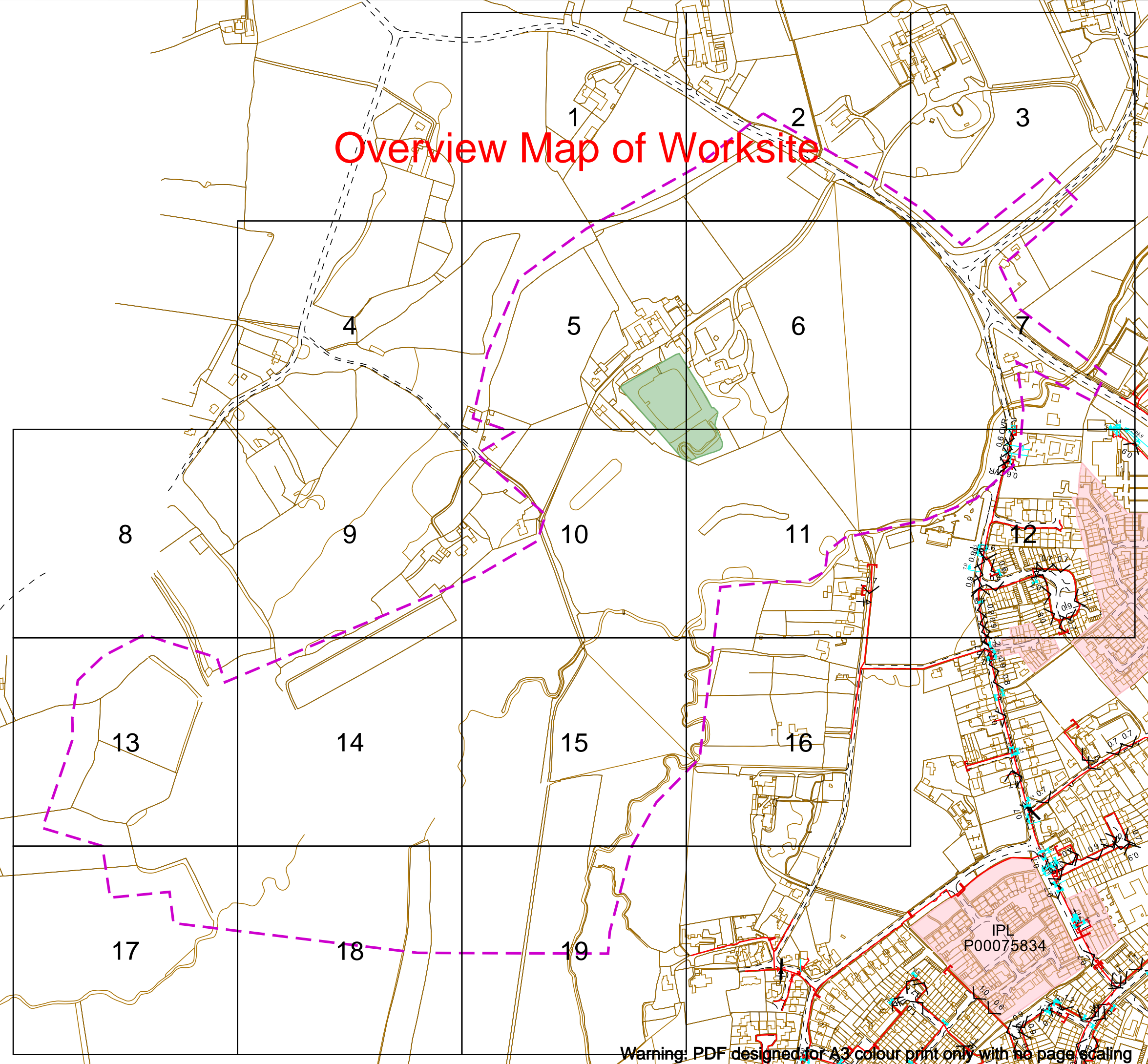
- Some Examples Of Plant Items
- Valve
  - Syphon
  - Depth of Cover
  - Diameter Change
  - Material Change

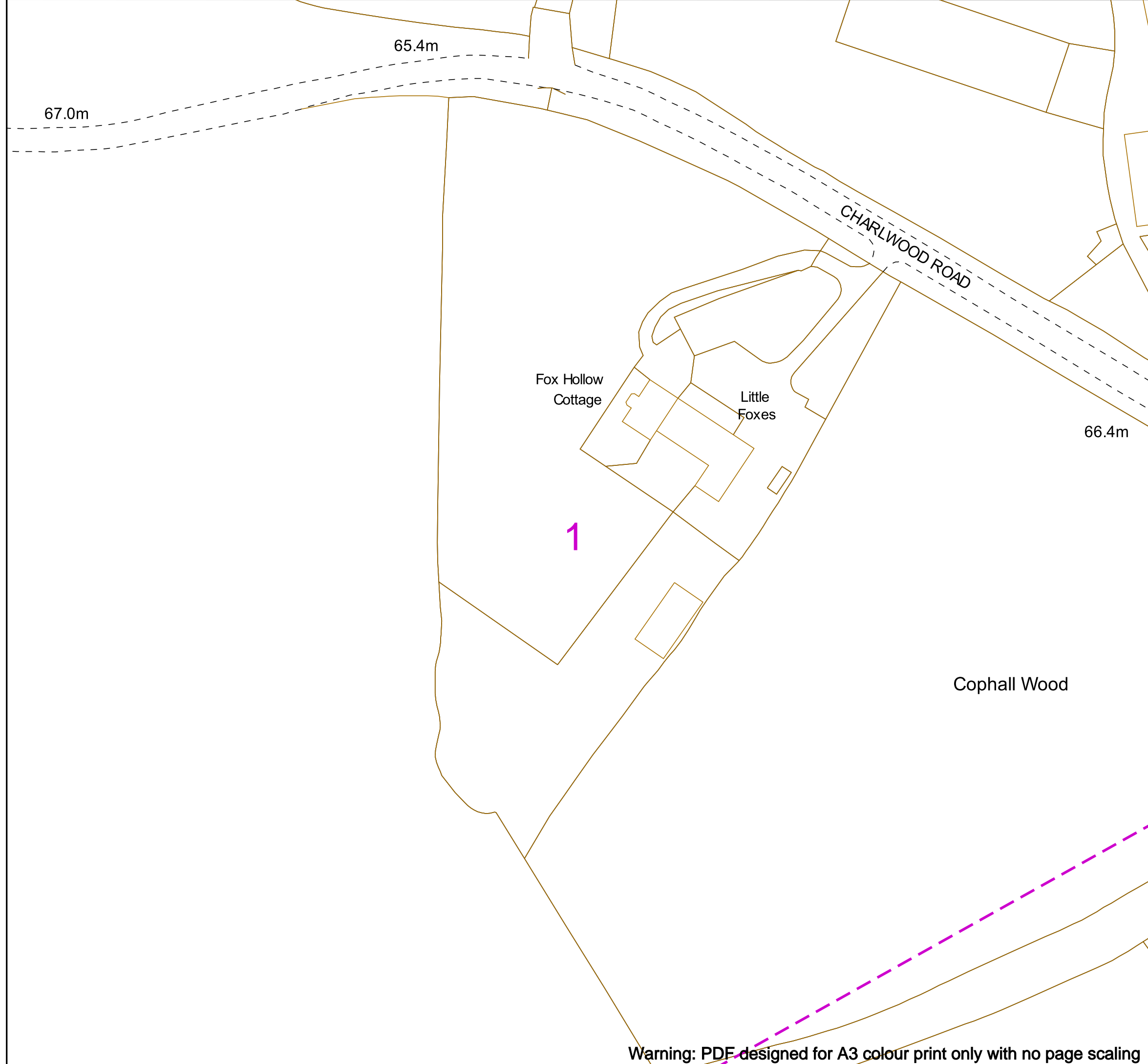
Digsite: Line: - - - - - Area:



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

Date Requested: 09/10/2023  
 Job Reference: 31116022  
 Site Location: 524726 138201  
 Requested by: Mr Max Allfrey  
 Your Scheme/Reference: Land West of Ifield - 1  
 Scale: 1:1000 (When plotted at A3)

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**0800 111 999**

Low Pressure Mains	
Medium Pressure Mains	
Intermediate Pressure Mains	
High Pressure Mains	
LAs	
GTs	
SSSIs	

Some Examples Of Plant Items

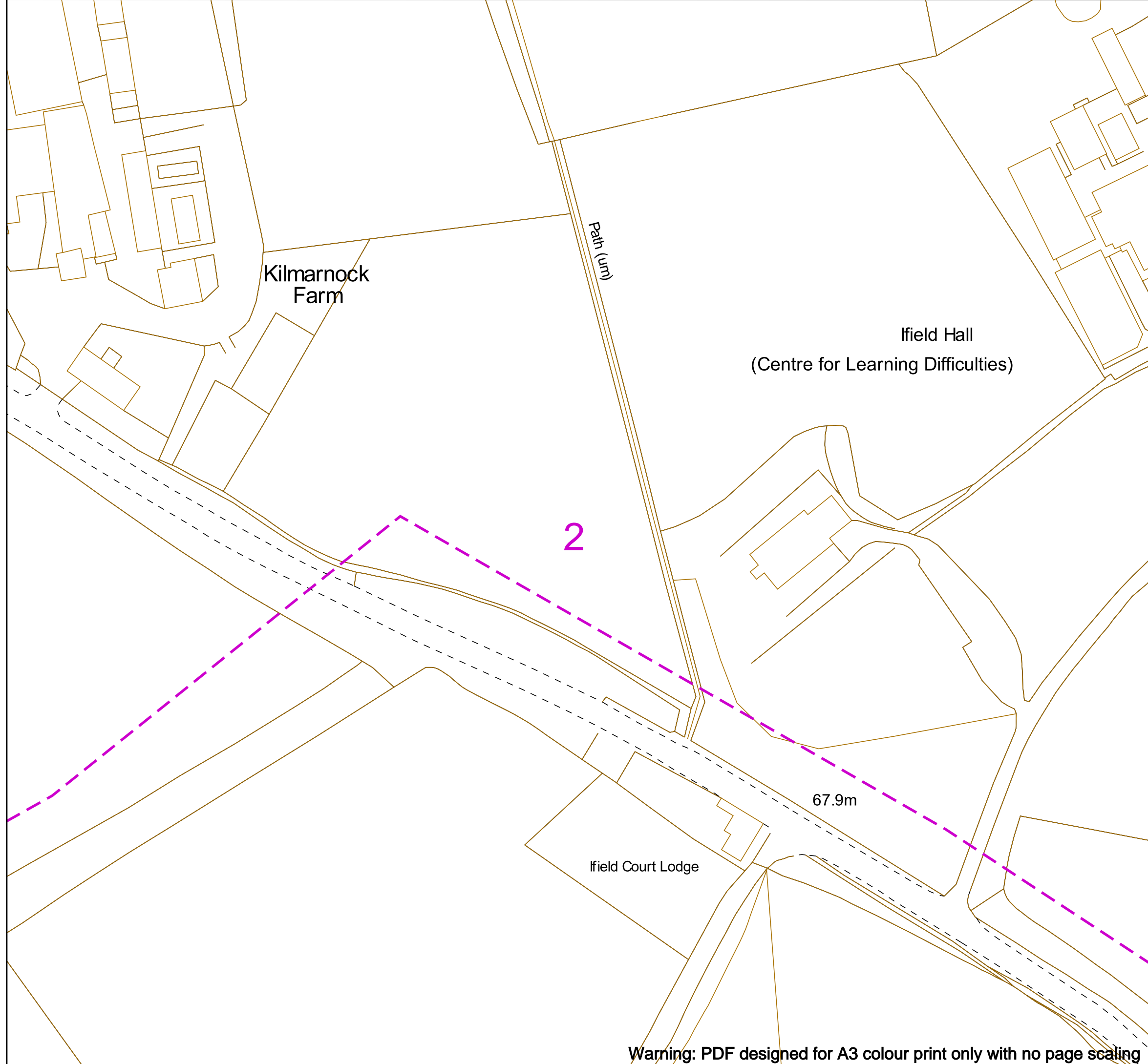
Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
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Digsite: Line: Area:



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

Date Requested: 09/10/2023  
 Job Reference: 31116022  
 Site Location: 524726 138201  
 Requested by: Mr Max Allfrey  
 Your Scheme/Reference: Land West of Ifield - 1  
 Scale: 1:1000 (When plotted at A3)

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

Low Pressure Mains	
Medium Pressure Mains	
Intermediate Pressure Mains	
High Pressure Mains	
LAs	
GTs	
SSSIs	

Some Examples Of Plant Items

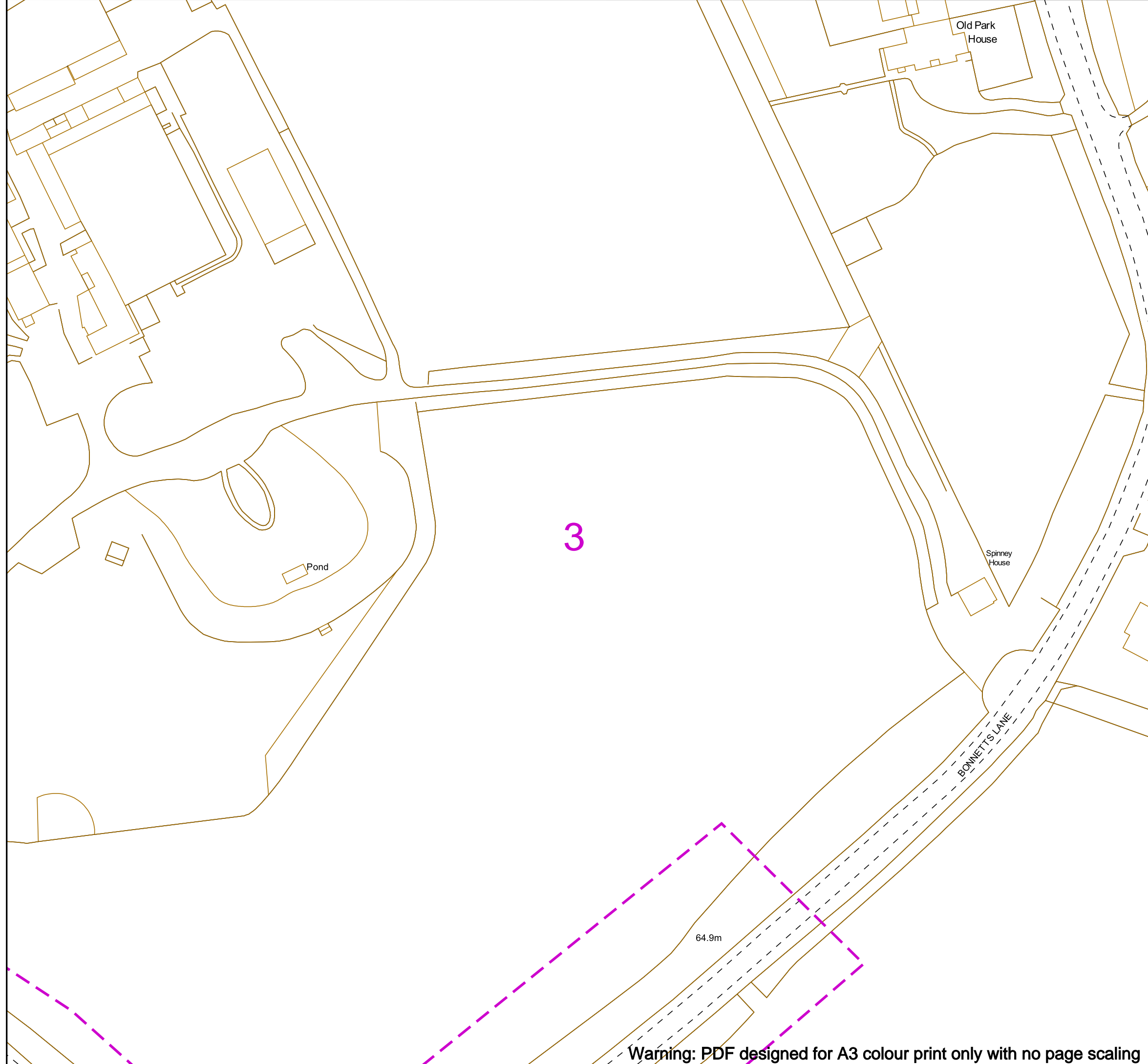
Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
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Digsite: Line: Area:



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

Date Requested: 09/10/2023  
 Job Reference: 31116022  
 Site Location: 524726 138201  
 Requested by: Mr Max Allfrey  
 Your Scheme/Reference: Land West of Ifield - 1  
 Scale: 1:1000 (When plotted at A3)

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**

Low Pressure Mains	
Medium Pressure Mains	
Intermediate Pressure Mains	
High Pressure Mains	
LAs	
GTs	
SSSIs	

Some Examples Of Plant Items

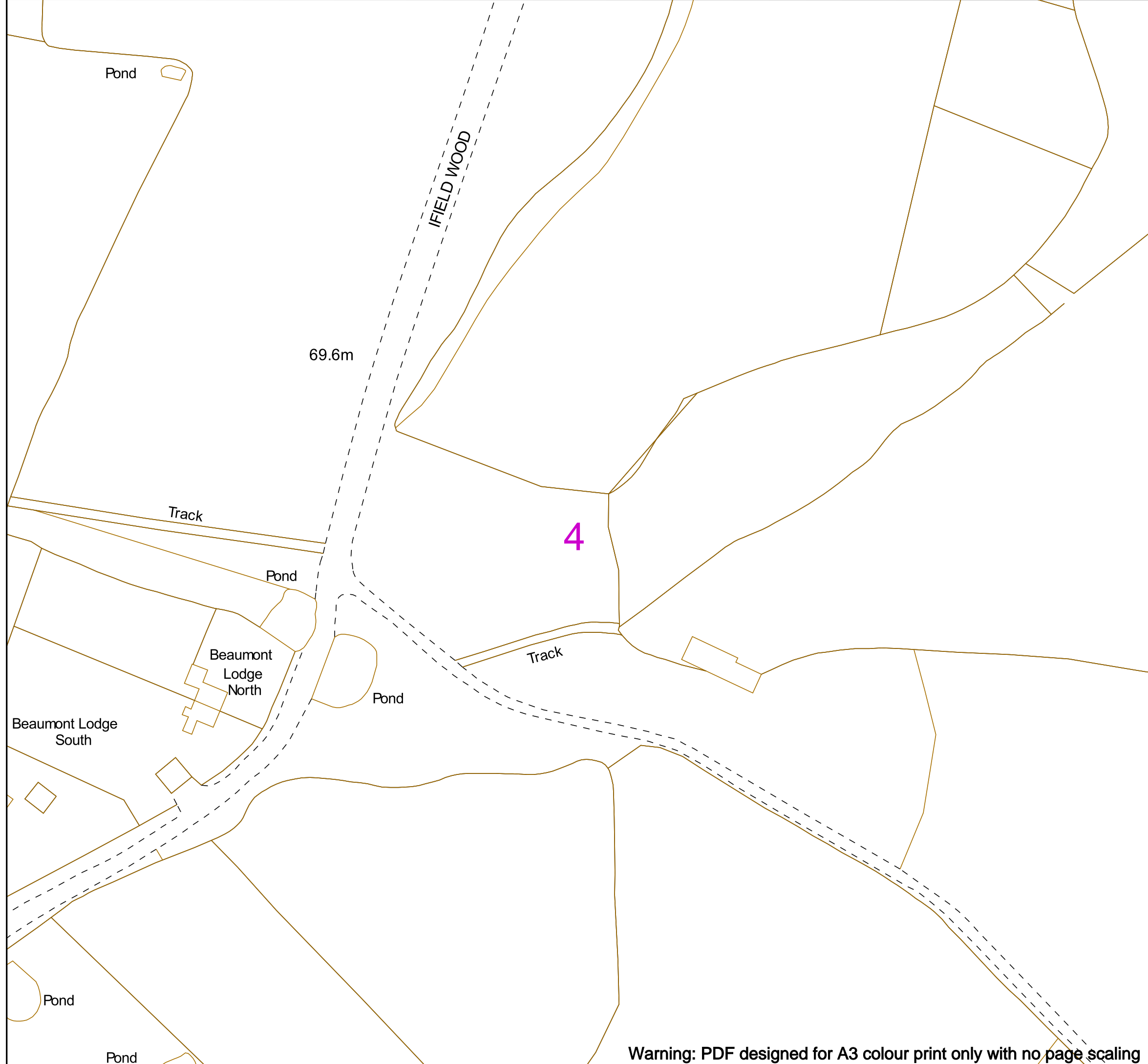
Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
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Digsite: Line: Area:



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

Date Requested: 09/10/2023  
 Job Reference: 31116022  
 Site Location: 524726 138201  
 Requested by: Mr Max Allfrey  
 Your Scheme/Reference: Land West of Ifield - 1  
 Scale: 1:1000 (When plotted at A3)

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Low Pressure Mains	
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Some Examples Of Plant Items

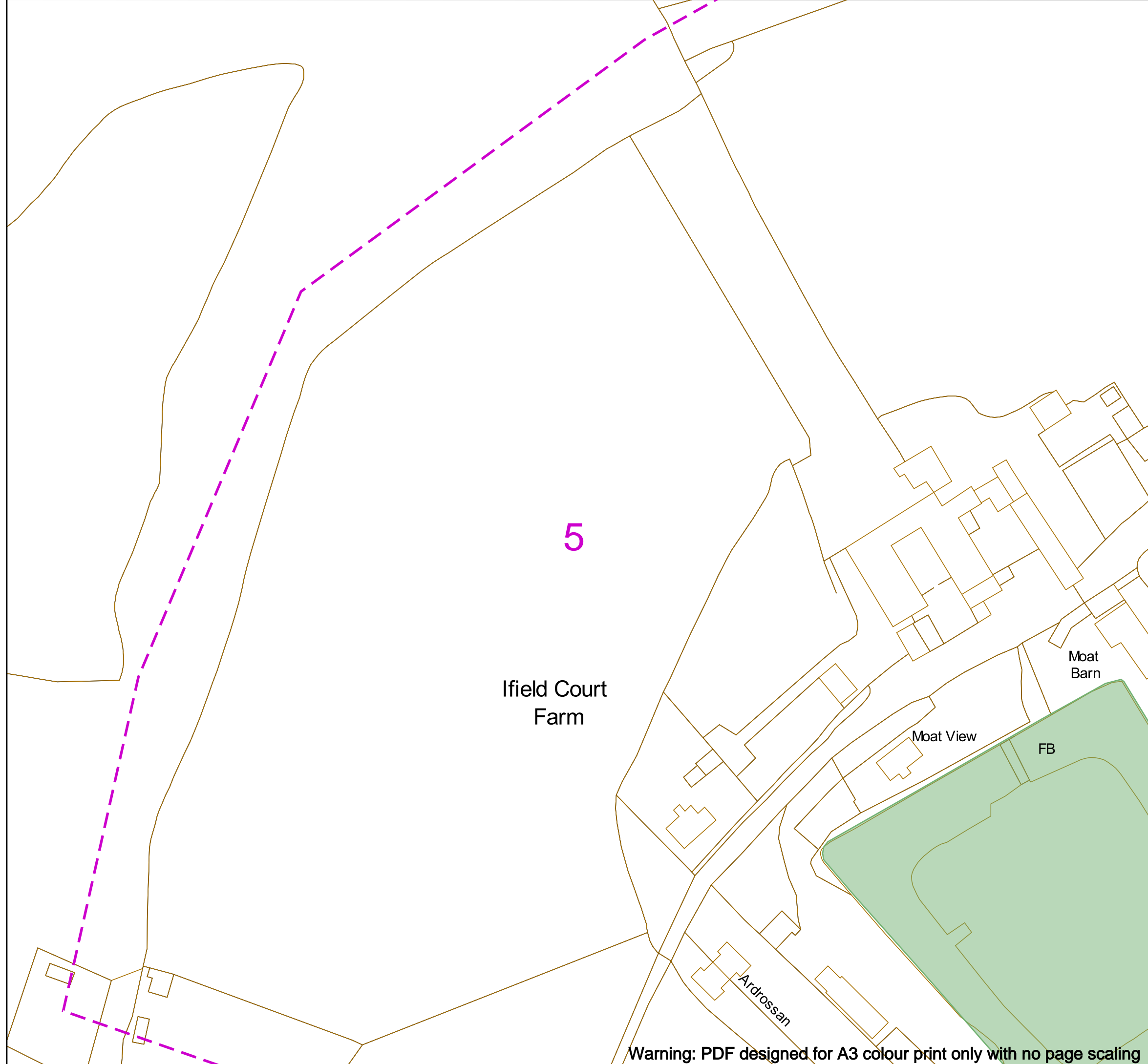
Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
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Digsite: Line: Area:



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Some Examples Of Plant Items

Valve		Syphon		Depth of Cover		Diameter Change		Material Change	
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