Tower Surveys Associates
Chartered Surveyors
Geomatics - Land, Utilities, Engineering & Building

William Stukeley C of E School, Spalding Road, Holbeach.

October: 2021





Site Location



Grid Reference in Centre of Area

TF 35625 24790

Grid Reference (6 figure)

TF356247

X (Easting):	Y (Northing)
535625	**324790**
Latitude:	Longitude:
52.803618	**0.0104123335**

Address

William Stukeley C of E School, Spalding Road, Holbeach.

Postcode (nearest):

PE12 7HG

What3words:

acoustics.kept.chart

Enclosures

Utility Type	Company	In-house Search	In Vicinity of Development	Not In Vicinity of Development	No Re-sponse Received to Date
Water Mains	Anglian Water		25/10/2021		
Drainage	Anglian Water		25/10/2021		
Gas	Cadent		25/10/2021		
Openreach (BT)	BT	x	25/10/2021		
CATV	Virgin	x	25/10/2021		
Electric	WPD		25/10/2021		
Communication	Colt				25/10/2021
	Sky			25/10/2021	
	Instalcom (inc 51 Degrees)			25/10/2021	
	SOTA			25/10/2021	
	Zayo Europe			25/10/2021	
	SSE Neos Networks			25/10/2021	
	KPN			25/10/2021	
	Cityfibre			25/10/2021	
	Verizon			25/10/2021	
	SSE Neos Comms			25/10/2021	
	Gamma			25/10/2021	
	Lastmile		25/10/2021		
	gtc			25/10/2021	
Environment Agency				25/10/2021	
Council				25/10/2021	
Tunnels & Pipelines	BT Deep Level Tunnels			25/10/2021	
	Thames Water Ring Main			25/10/2021	
	Post Office Tunnels			25/10/2021	
	Cemex (Cement Tunnel)			25/10/2021	
	MOD			25/10/2021	
	Post Office			25/10/2021	
	CHL (Fisher German)			25/10/2021	
Transport	Canal & River Trust			25/10/2021	
	Network Rail			25/10/2021	
	Crossrail			25/10/2021	
	London Underground			25/10/2021	
	Docklands Light Railway			25/10/2021	
	Private Rail Lines			25/10/2021	
	Trams			25/10/2021	
	Traffic Master			25/10/2021	

Also None Affected in This Search

	AWE Pipeline Esso Petroleum Company Limited	CATS Pipeline c/o Wood Group
	Perenco UK Limited (Purbeck Southampton Pipeline)	PSN Humbly Grove
	BOC Limited	Energy Redundant Pipelines - LPDA
	Fulcrum Pipelines Limited	Cemex
	Petroineos	IGas Energy
	BP Midstream Pipelines	RWEnpower (Little Barford and South Haven)
	Phillips 66	Centrica Energy

Abbreviations

Apparatus	
Electric:	
DNO	Distribution Network Operator
iDNO	Independent Distribution Network Operator
ICP	Independent Connections Provider
LV	Low Voltage
HV	High Voltage
EHV	Extra High Voltage
kVA	Kilovolt Amperes
MVA	Megavolt Amperes
AC	Alternating Current
S/S	Substation
PMT	Pole Mounted Transformer
Gas:	
GT	Gas Transporter
iGT	Independent Gas Transporter
UIP	Utility Infrastructure Provider
PRS	Pressure Reducing Station (Governor)
LP	Low Pressure
MP	Medium Pressure
IP	Intermediate Pressure
HP	High Pressure
Water	
SLO	Self Lay Organization
Incumbent	Local Water only or Water & Sewerage Company
WRAS	Water Regulation Advisory Scheme
Other	
PE	Polyethylene
DI	Ductile Iron
ST	Steel
CI	Cast Iron
SI	Spun Iron
HPPE	High Performance Polyethylene
MDPE	Medium Density Polyethylene
CATV	Cable Television
GRP	Glass Reinforced Plastic
FTTP	Fibre to the premise
FTTC	Fibre to the cabinet
l/min	Litres per minute
H&S	Health and Safety
HBF	House Builders Federation
TPO	Tree Preservation Order

Enclosure Table Key

Desk Research
A tick in this column indicates that the response has been determined In-house.

In Vicinity
Utility plant is expected to be within, adjacent to or very close to the search area. It is recommended to liaise with the utility in advance of any works taking place.

Not In Vicinity
Utility plant is not expected to be within, adjacent to or very close to the search area. It may be located some distance from the search area.

Disclaimer

Relevant Documents

The following documents must be referred to before work commences in the vicinity of existing services:

Health and Safety Booklet HS (GS) 6 Avoidance of Danger from Overhead Electric Lines.
General Safety Measures to Avoid Injury and Damage to Gas Apparatus.
HSE Guidance Note HS (G) 47 Avoiding Danger from Underground Services.
National Joint Utilities Group (NJUG) Publications Vol. 1.
CDM Regulations 2007 (Regulation 34 – Energy Distribution Installations).
Electricity at Work Regulations 1989.

Basic Risk Assumption for all Services

When dealing with existing services the following assumptions must always be accepted:
All existing buildings have gas, water electric and telecoms supplies to them until proven otherwise. Any supply to an existing building, no matter how old the building is or how deteriorated the supply may appear, is taken to be 'live' until proven otherwise. All open land, vacant lots and derelict sites are deemed to have services beneath them until proven otherwise.

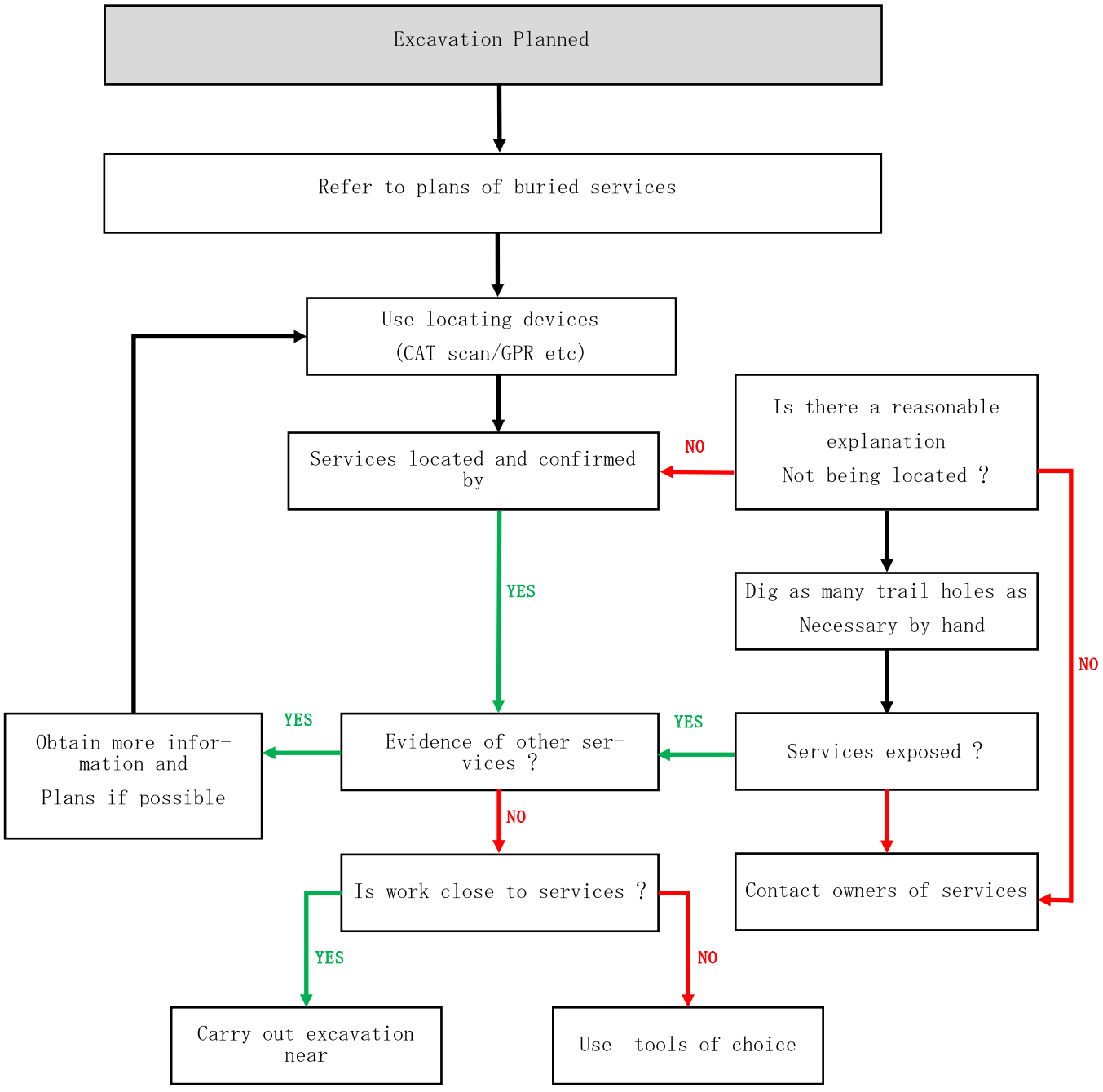
The only acceptable proof that a service is 'dead' and can be removed is written confirmation from the owner of the service. The quality and accuracy of information provided by utilities about their existing plant is indicative and no warranty is made as to its accuracy. Therefore, any utility record plans and/or marked up drawings provided by each utility must only be used as a guide and the actual location of plant should be verified by CAT Scan or trial holes before construction works commence. Please note not all service connections are shown on the utility record plans.

Plant Found Within Site Boundaries

Where utility plant is found within the site boundary, it is recommended for the client to check for legal easements or wayleaves.

Diversions of plant within site boundaries can be expensive and time consuming to relocate. Further investigation of costs and timescales are recommended. Please ask PES for further details.

This flow diagram is intended to help give an understanding of the process from referring to plans on-site through to the start of excavation.



For example, could services be non-metallic pipes? Please refer to HS (G) 47 text for further information.

† In particular; visual evidence. Ensure that the presence of services, which may be unmarked on plans or for which no plans are available, has been considered, for example service connections.

*** If there is visual evidence of services, but owners cannot be traced, despite all reasonable attempts to do so, any excavation could proceed but using hand-dug trial holes and proceeding with great care.*

Guidelines on the Positioning and Colour Coding of Underground Utilities' Apparatus

Recommended Colour Coding of Underground Utilities Apparatus All depths are from the surface level to the crown of the apparatus.

Utility	Duct	Pipe	Cable	Marker Systems	Recommended Minimum Depths	
					Footway Verge	Carriageway
Electricity HV (High Voltage)	Black or red duct or tile	N/A	Red or black	Yellow with black and red legend or concrete tiles	450mm - 1200mm	750m - 1200mm
Electricity LV (Low Voltage)	Black or red duct or tile	N/A	Black or red	Yellow with black legend		750mm
Gas	Yellow	* See row below	N/A	Black legend on PE pipes every linear metre.	600mm footway 750mm verge	750mm
	*** PE - up to 2 bar - yellow or yellow with brown stripes (removable skin revealing white or black core pipe). - between 2 to 7 bar -orange. Steel pipes may have yellow wrap or black tar coating or no coating. Ductile Iron may have plastic wrapping Asbestos & Pit / Spun Cast Iron – No distinguishable colour					
Water non Potable & Grey Water	N/A	Black with green stripes	N/A	N/A	600mm - 750mm	600mm - 750mm
Water - Firefighting	N/A	Black with red stripes or bands	N/A	N/A	600mm - 750mm	600mm - 750mm
Oil / fuel pipelines	N/A	Black	N/A	Various Surface markers Marker tape or tiles above red concrete	900mm All work within 3 metres of oil fuel pipelines must receive prior approval	900mm All work within 3 metres of oil fuel pipelines must receive prior approval
Sewerage	Black	No distinguishing colour / material (eg: Ductile Iron may be red; PVC may be brown)	N/A	N/A	Variable	Variable
Communications	Grey, white, green, Black, purple	N/A	Black or Light Grey	Various	250mm - 350mm	750mm minimum
Water	Blue or Grey	Blue polymer or blue or uncoated Iron / GRP. Blue polymer with brown stripe (removable skin revealing white or black pipe)	N/A	Blue or blue/ black	750mm	750mm minimum
Water pipes for special purposes (e.g. contaminated ground)	N/A	Blue polymer with brown stripes (non removable skin)	N/A	Blue or blue/ black	750mm	750mm minimum

*These guidelines describe utility industry practice. However, it should not be Assumed that all apparatus will conform the recommendations for positioning And colour coding contained in this report.

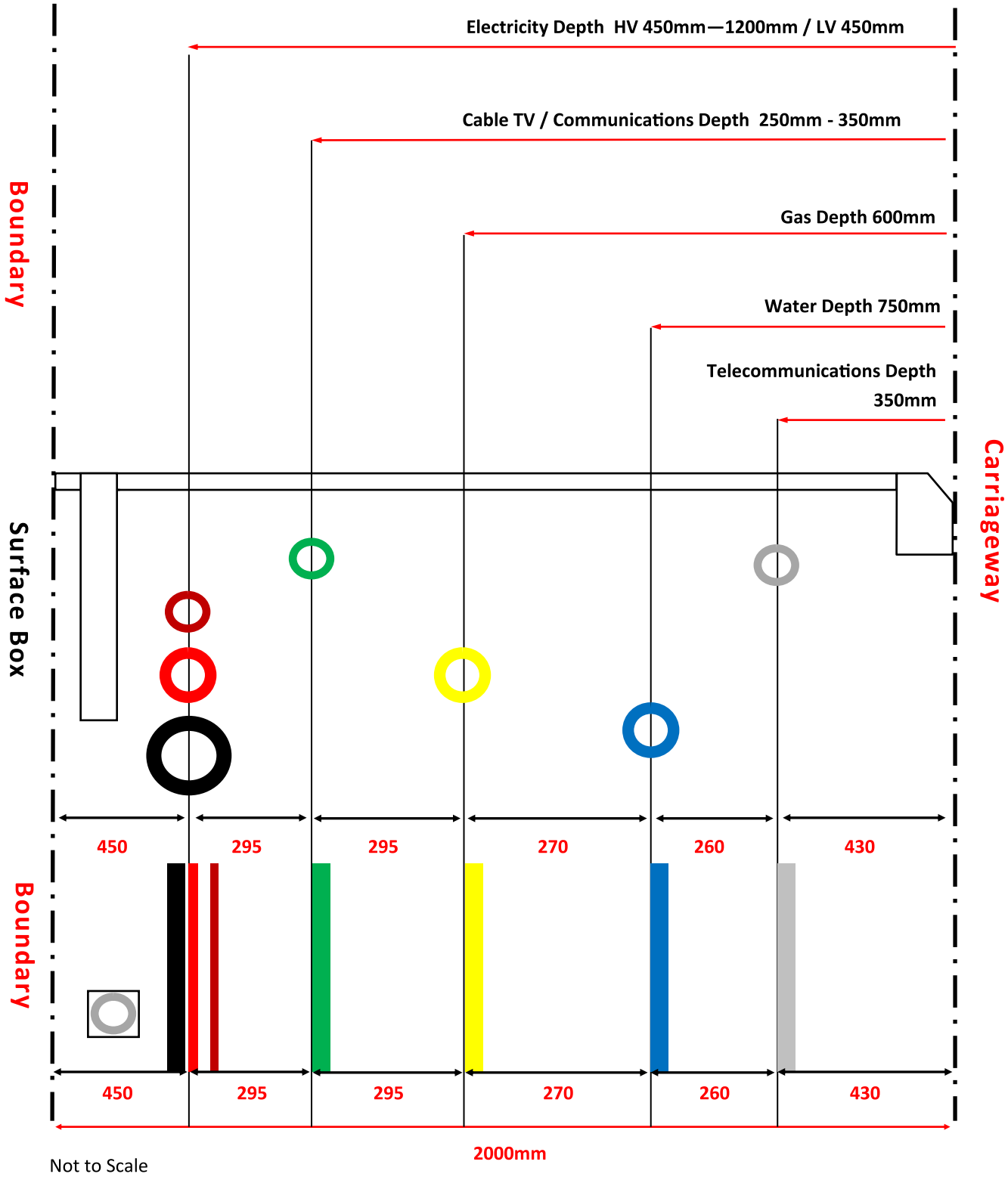
Recommended Colour Coding of Other Underground Apparatus
All depths are from the surface level to the crown of the apparatus

Utility	Duct	Pipe	Cable	Marker Systems	Recommended Minimum Depths	
					Footway Verge	Carriageway
At the time of publication the following were curHighway Authority Services At the time of publication the following were current examples of known highway authority apparatus colour coding but local variations may occur rent examples of known highway authority apparatus colour coding but local variations may occur.						
Street Lighting						
England and Wales	Orange	N/A	Black	Yellow with black legend	450mm	600mm
Scotland	Purple	N/A	Purple	Yellow with black legend	450mm	450mm
Northern Ireland	Orange	N/A	Black or orange		450mm	450mm
Other						
Traffic Control	Orange	N/A	Orange	Yellow with black legend		
Street Furniture		N/A	Black	Yellow with black legend	450mm	600mm
Communications		N/A	Light grey or black	Yellow with black legend		
CCTV	Purple	N/A		Yellow with black legend		
Motorways and Trunk Roads England and Wales						
Communications	Purple	N/A	Grey	Yellow with black legend	450mm	
Communications Power	Purple	N/A	Black	Yellow with black legend		
Road Lighting	Orange	N/A	Black	Yellow with black legend		
Scotland						
Communications ○ ●	Black or grey	N/A	Black	Yellow with black legend		
Road Lighting	Purple	N/A	Purple	Yellow with black legend		

NJUG Guidelines on the Positioning and Colour Coding of Underground Utilities

Recommended Positioning of Utility Apparatus in a 2 metre Footway (s)

Note - the same positioning should apply in the carriageway service strip (if safe and practical to do so) where a development has footways). available for services and or the boundary of the property in on the carriageway (please refer to minimum depths in carriageways)
For further advise please contact the asset owner.



Not to Scale

Other warnings

WARNING
PIPELINE OFFSET BEHIND MARKER

The markers may not always be directly over the pipeline. In which case an additional waring sticker will indicate the direction of off-set.



Studs such as these may be found in footpaths and car parks etc.



Stile warning marker

CAUTION

THIS STRUCTURE IS IN CLOSE PROXIMITY TO A HIGH PRESSURE OIL PIPELINE.
BEFORE COMMENCING ANY EXCAVATION WORK PLEASE CALL

FREEFONE 0800 XXXXXX.

You may find signs such as these on apparatus close to the pipeline.



When the pipeline route has been located it will be marked with location pegs.



Pole warning marker

IMPORTANT

Marker posts only denote the presence of our pipelines. Never presume that the pipeline runs in a straight line between marker posts as there could either be a bend or the posts may have been moved without our knowledge.

DO NOT PRESUME ANYTHING; TELEPHONE OUR AGENTS AND WE WILL SEND SOMEONE TO VERIFY EXACTLY WHERE THE PIPELINE IS SITUATED.



Watch out– there's a pipeline about!

Typical pipeline Markers

GOVERNMENT PIPELINES AND STORAGE SYSTEM

MAINLINE PIPELINES LIMITED

LINEWATCH WEBSITE
www.linewatch.co.uk

Revision No **06.1**

Awareness and preparation is the key to safe excavation

Typical pipeline markers



Mainline marker post



Huntsman marker post



BPA marker post



ConocoPhillips marker post



MJL marker post



BP marker post



Esso marker posts



Total marker post



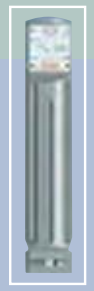
GPSS marker post



Shell marker posts



Beware of posts with brass studs (such as the post above) which have cables connecting to the pipeline below.



New design marker post

Typical pipeline aerial markers





Shell aerial marker



Esso & MLP aerial marker



GPSS aerial marker



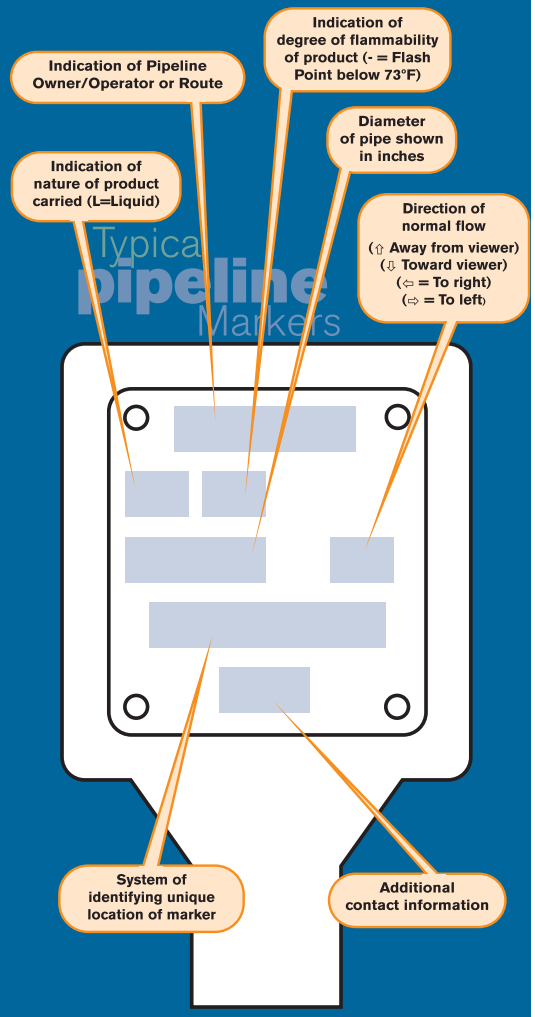
BP aerial marker



Plain orange with white stick

BPA
ConocoPhillips
Total/Huntsman
have similar aerial
markers to left

Standard symbols on marker posts



The above information may not appear in the same order as indicated and some items may be omitted

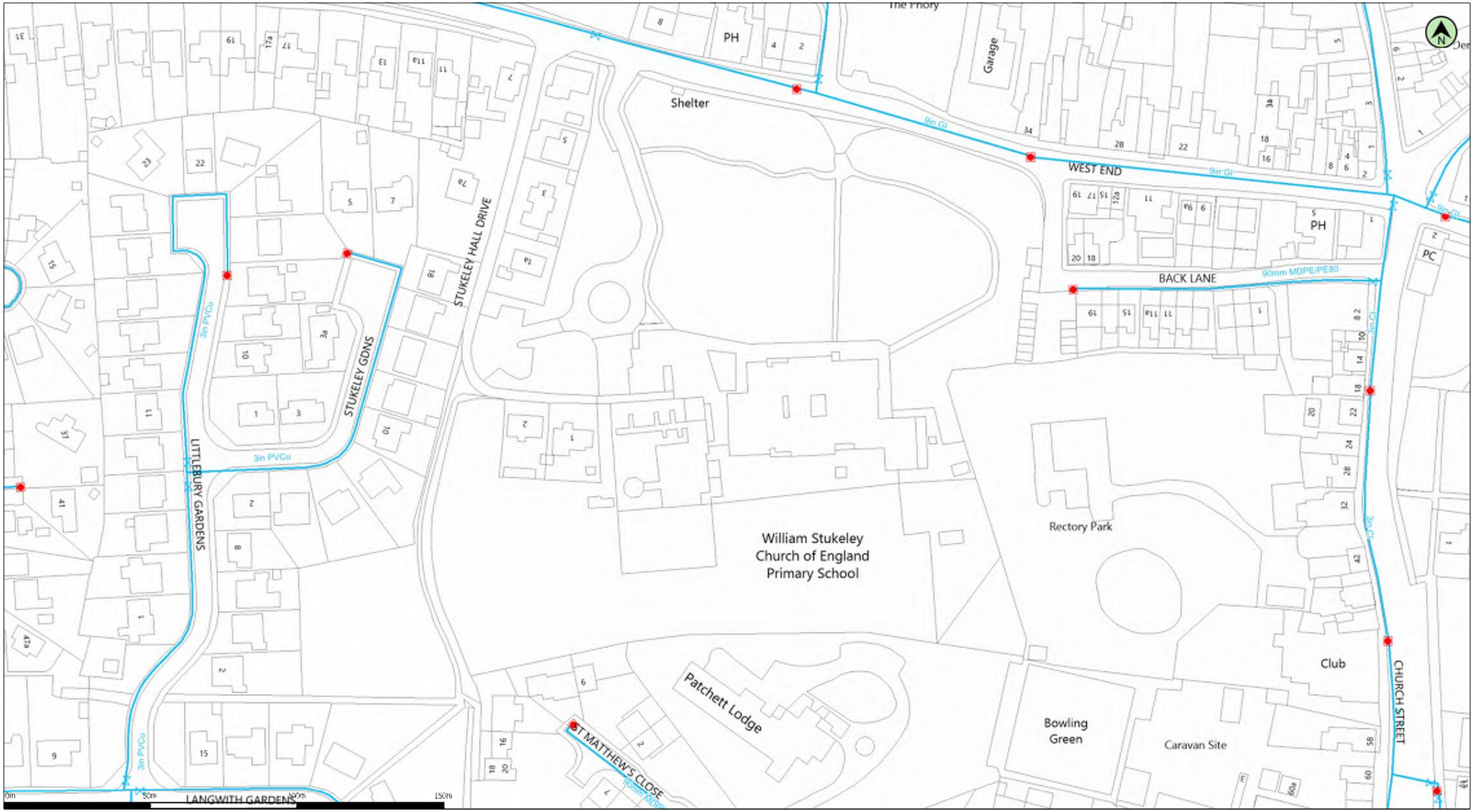
Useful pipeline enquiry sites

www.linewatch.co.uk

for links to individual pipeline websites

www.linesearch.org

Water



(c) Crown copyright and database rights 2021 Ordnance Survey 100022432 | Date: 19/10/21 | Scale: 1:1250 | Map Centre: 535625,324780 | Data updated: 30/09/21 | Our Ref: 679205 - 4 | Clean Water Plan A3

This plan is provided by Anglian Water pursuant its obligations under the Water Industry Act 1991 sections 198 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any works. The actual position of all apparatus MUST be established by trial holes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy or omission, including the failure to accurately record, or record at all, the location of any water main, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (c) Crown copyright and database rights 2021 Ordnance Survey 100022432.This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

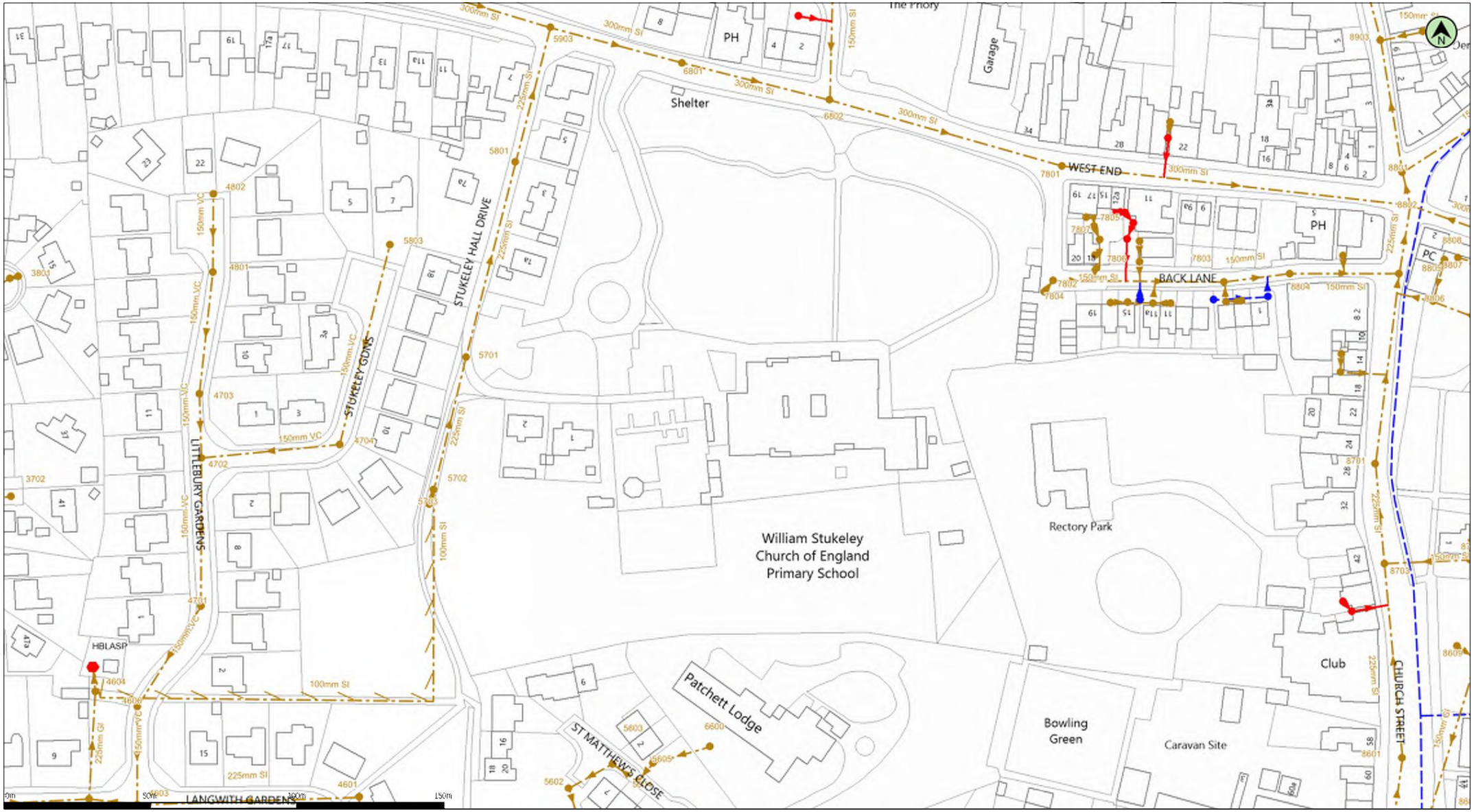
Potable Water
Raw Water
Decommissioned Water
Fitting
Hydrant

utilitysitesearch@outlook.com

WILLIAM STKELEY

love every drop
anglianwater

Drainage



(c) Crown copyright and database rights 2021 Ordnance Survey 100022432 | Date: 19/10/21 | Scale: 1:1250 | Map Centre: 535625,324780 | Data updated: 30/09/21 | Our Ref: 679205 - 5 | Wastewater Plan A3

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

*(Colour denotes effluent type)

utilitysitesearch@outlook.com

WILLIAM STKELEY

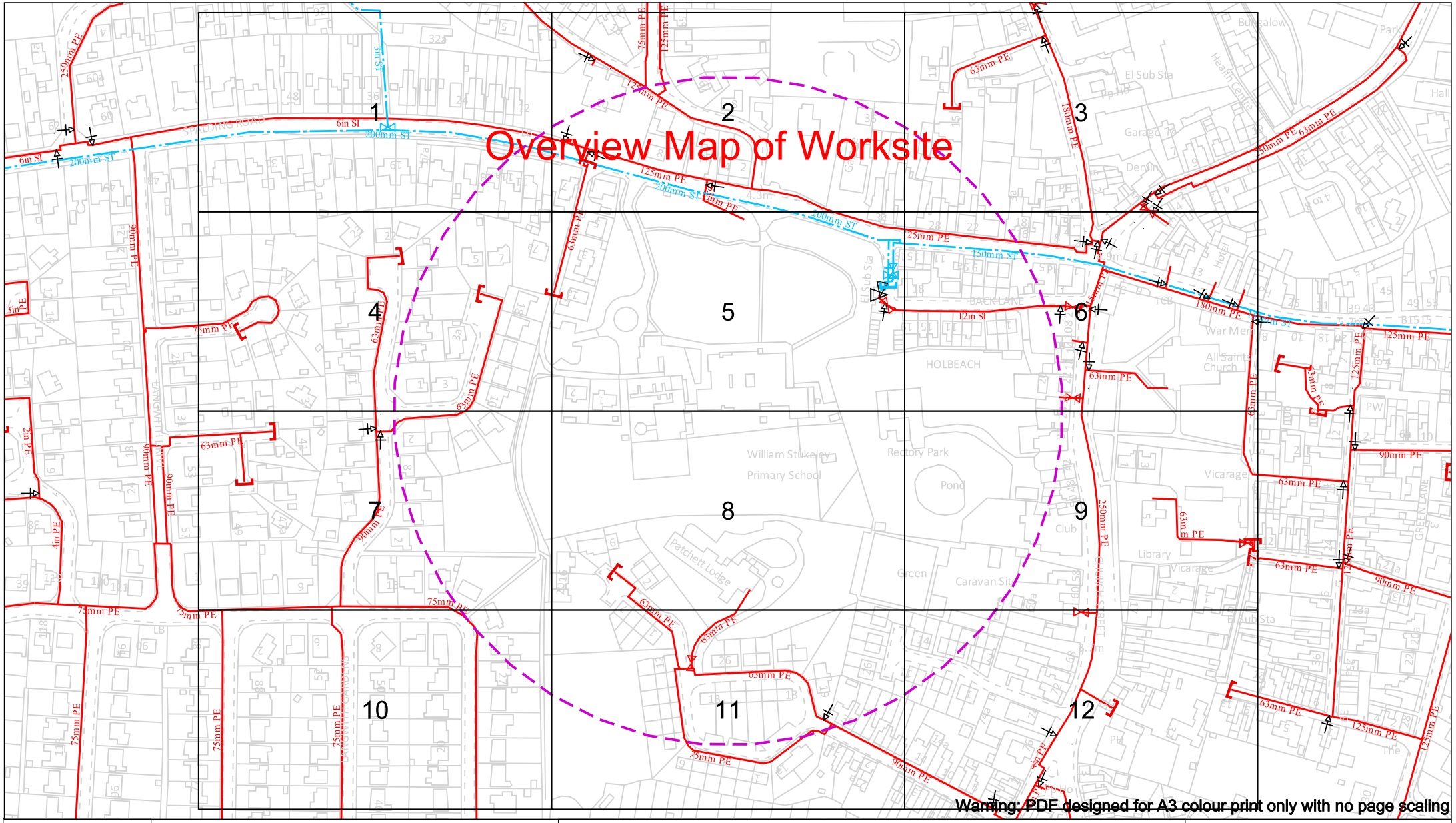
love every drop anglianwater

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
3702	F	3.2	1.82	1.38
3801	F	3.3	2.16	1.14
3804	F	-	-	-
4601	F	2.99	-	-
4602	F	3.2	-0.47	3.67
4603	F	3.154	0.256	2.898
4604	F	-	-	-
4606	F	3.336	0.491	2.845
4701	F	3.235	0.795	2.44
4702	F	3.287	1.152	2.135
4703	F	3.245	1.31	1.935
4704	F	3.301	1.421	1.88
4801	F	3.276	1.486	1.79
4802	F	3.326	1.776	1.55
5602	F	3.24	1.765	1.475
5603	F	3.114	1.865	1.249
5604	F	2.013	1.938	0.075
5605	F	-	-	-
5701	F	3.29	1.06	2.23
5702	F	3.34	1.16	2.18
5703	F	-	-	-
5801	F	3.9	0.77	3.13
5803	F	3.399	1.899	1.5
5903	F	4.11	0.57	3.54
6600	F	-	-	-
6801	F	4.34	0.33	4.01
6802	F	4.25	0.19	4.06
7801	F	4.68	-0.05	4.73
7802	F	4.58	3.18	1.4
7803	F	4.82	2.96	1.86
7804	F	-	-	-
7805	F	-	-	-
7806	F	-	-	-
7807	F	-	-	-
8601	F	3.65	1.31	2.34
8609	F	-	-	-
8701	F	4.08	0.82	3.26
8702	F	4.22	3.3	0.92
8703	F	4.06	1.01	3.05
8801	F	5	-0.56	5.56
8802	F	5.16	-0.51	5.67
8804	F	4.88	2.8	2.08
8805	F	4.65	0.46	4.19
8806	F	-	-	-
8807	F	-	-	-
8808	F	-	-	-
8903	F	4.51	-0.81	5.32
8904	F	4.61	3.53	1.08

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert

Gas



View extent: 200m, 115m

IMPORTANT NOTICES

This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

In case of an emergency call 0800 111 999

Dig Sites

Area: Line:

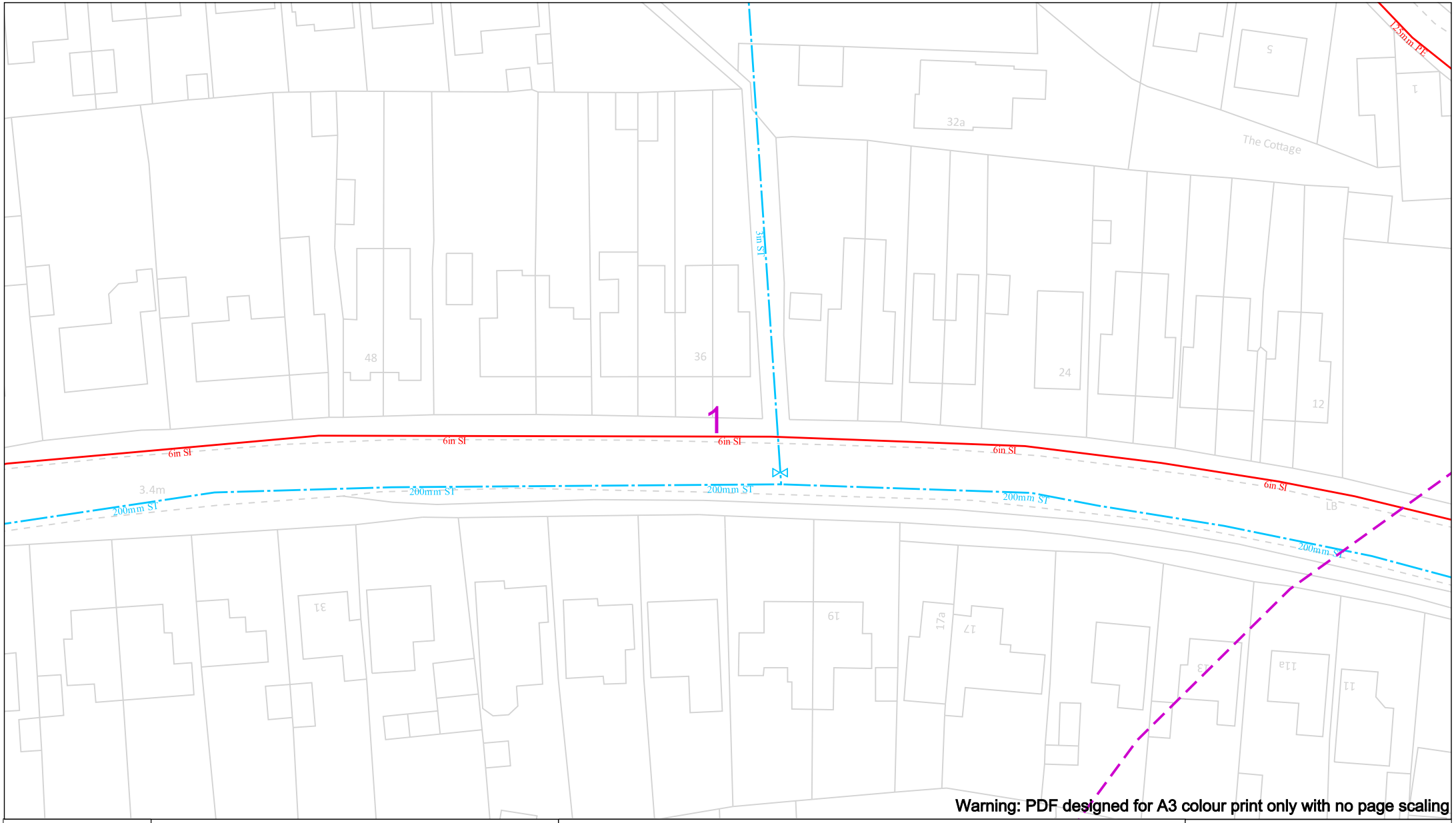
- LP Mains
- MP Mains
- IP Mains
- LHP Mains

- Valve
- Depth of cover
- Syphon
- Diameter Change
- Material Change
- Out of Standard Service

Cadent

Your Gas Network

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Warning: PDF designed for A3 colour print only with no page scaling

View extent: 200m, 115m

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50m

Dig Sites

Area:

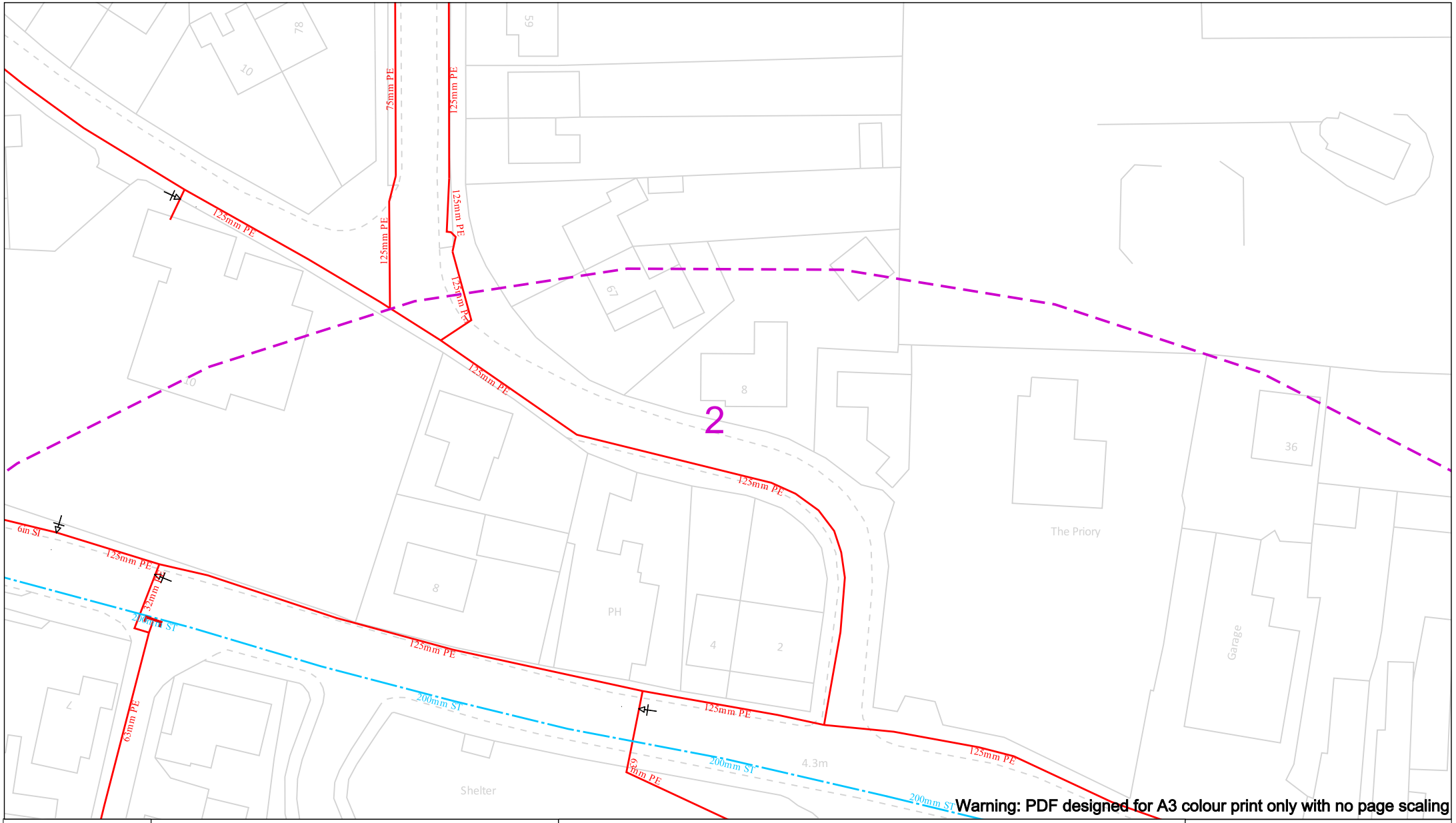
Line:

LP Mains
MP Mains
IP Mains
LHP Mains

Valve
Depth of cover
Syphon
Diameter Change
Material Change
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Cadent
Your Gas Network

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50m

Dig Sites

Area:

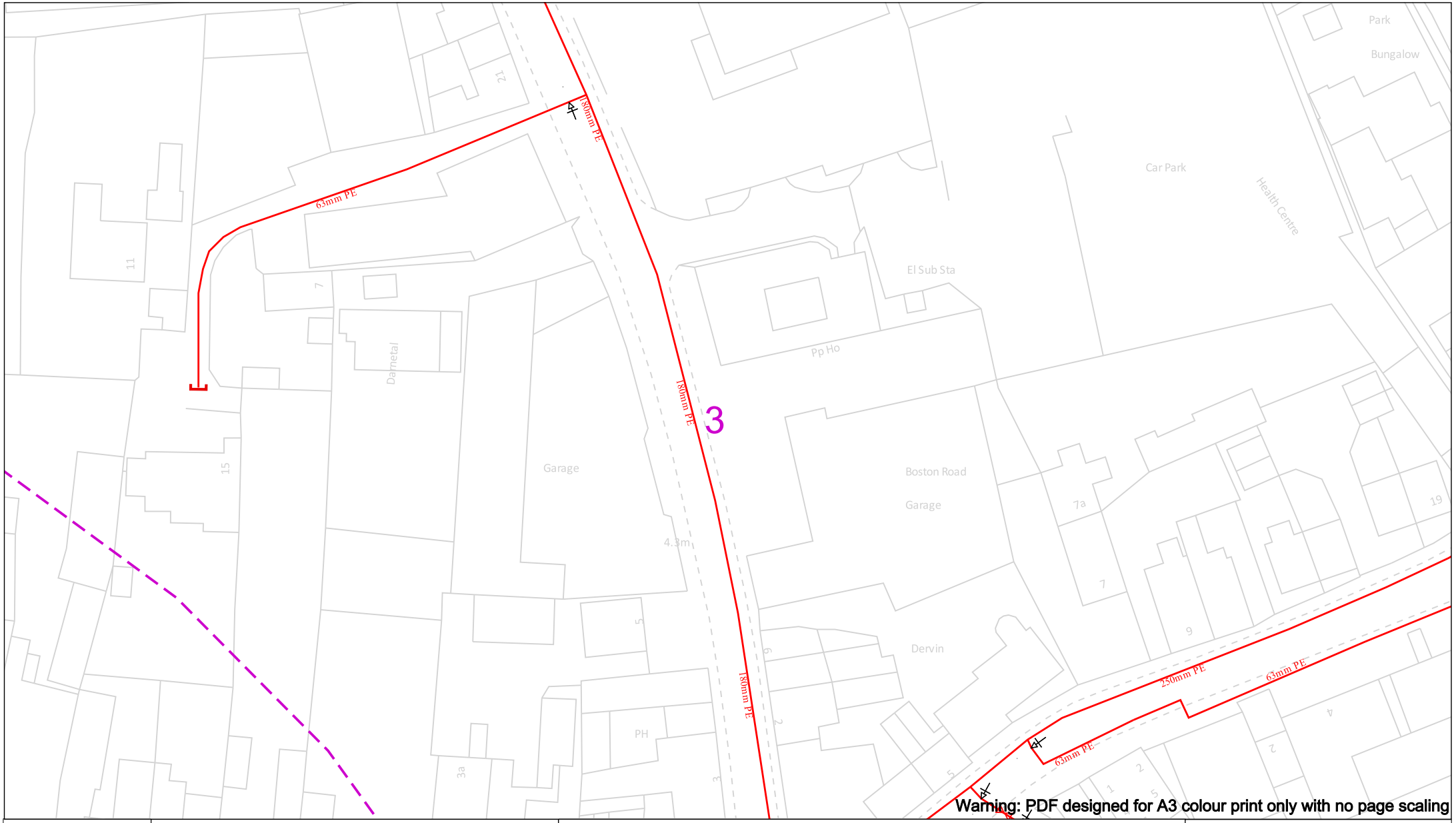
Line:

- LP Mains
- MP Mains
- IP Mains
- LHP Mains
- Valve
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50m

Dig Sites

Area:

Line:

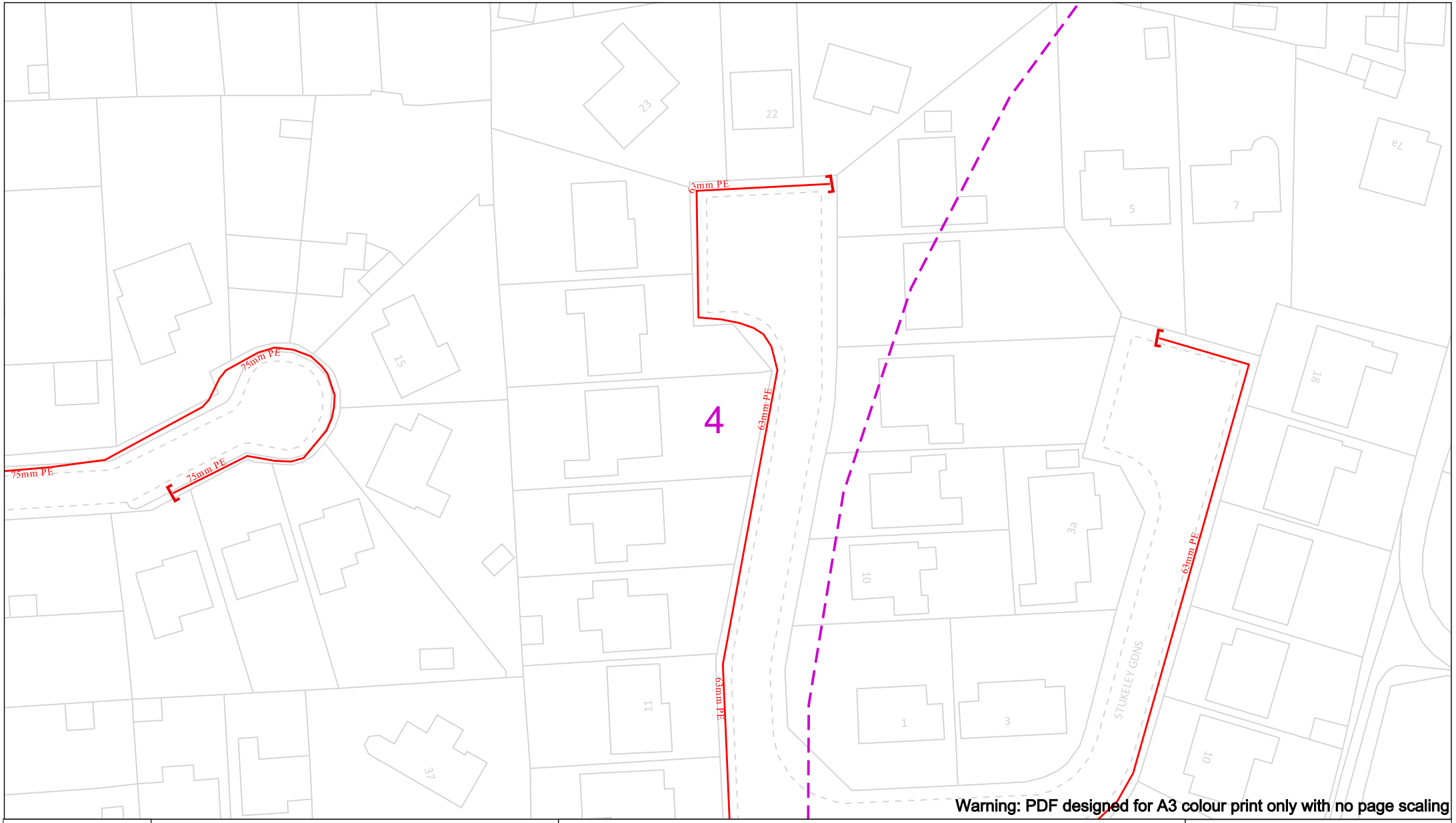
- LP Mains
- MP Mains
- IP Mains
- LHP Mains

- Valve
- Depth of cover
- Syphon
- Diameter Change
- Material Change
- Out of Standard Service

Cadent

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In case of an emergency call 0800 111 999

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Dig Sites

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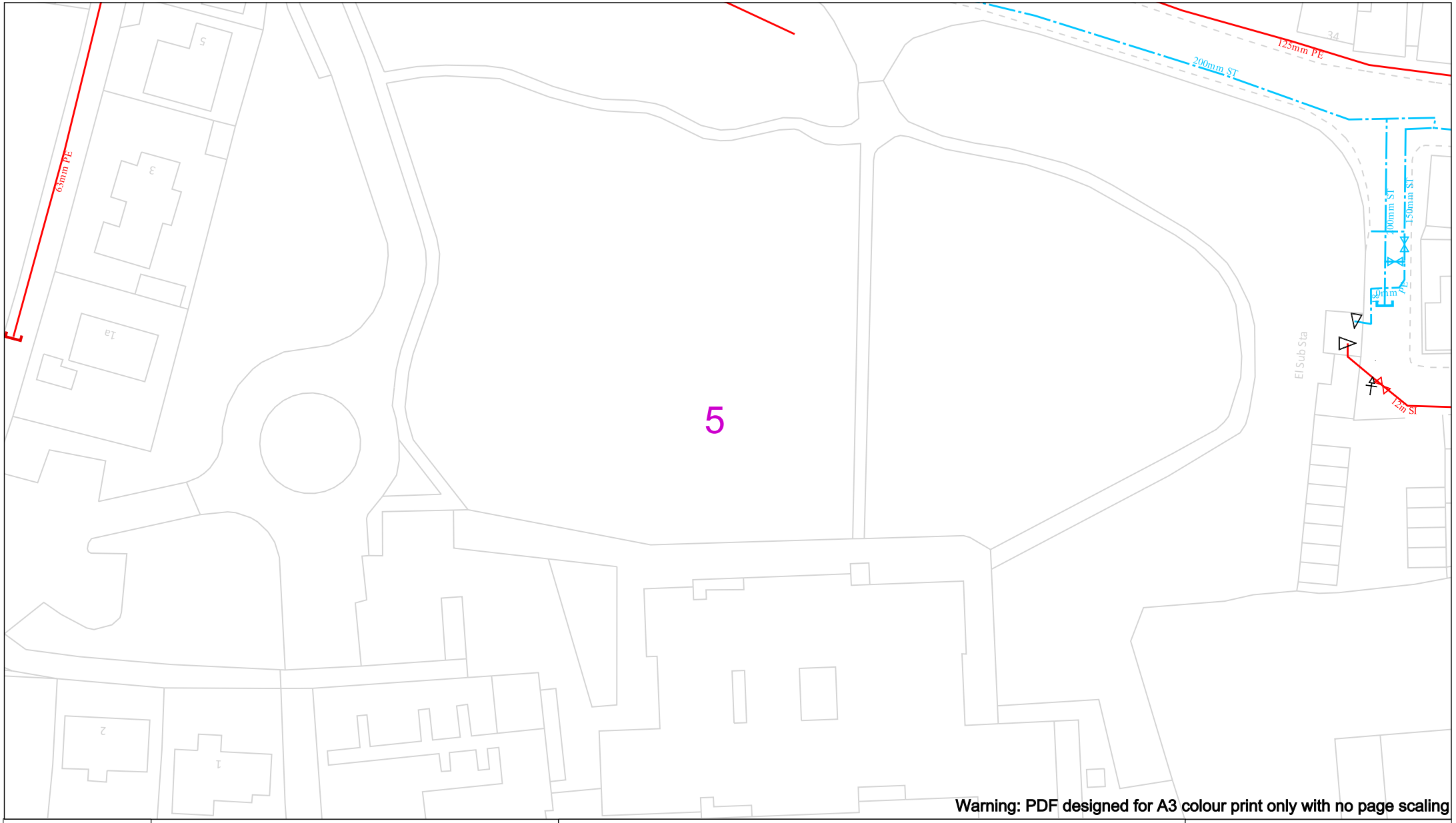
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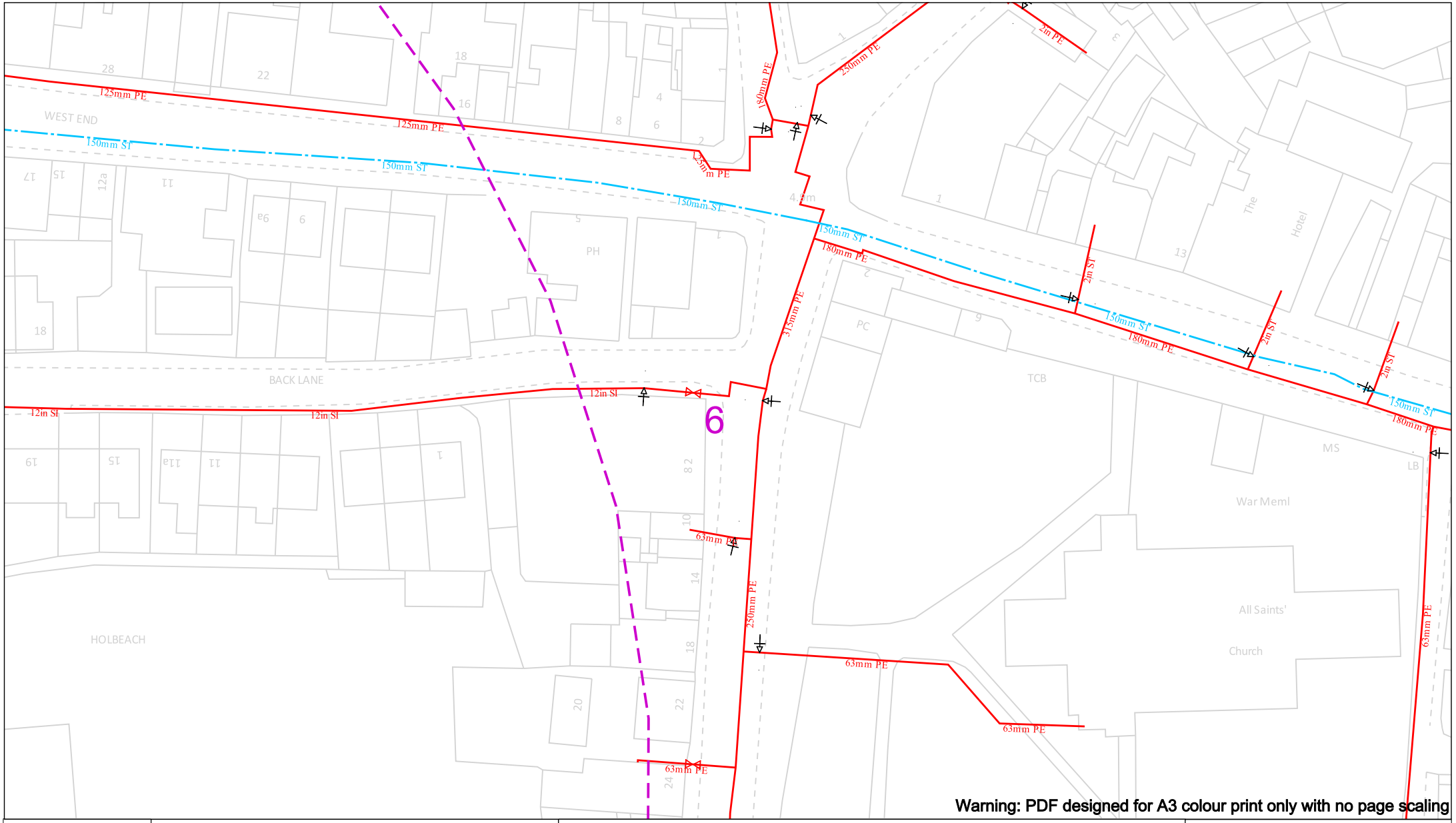
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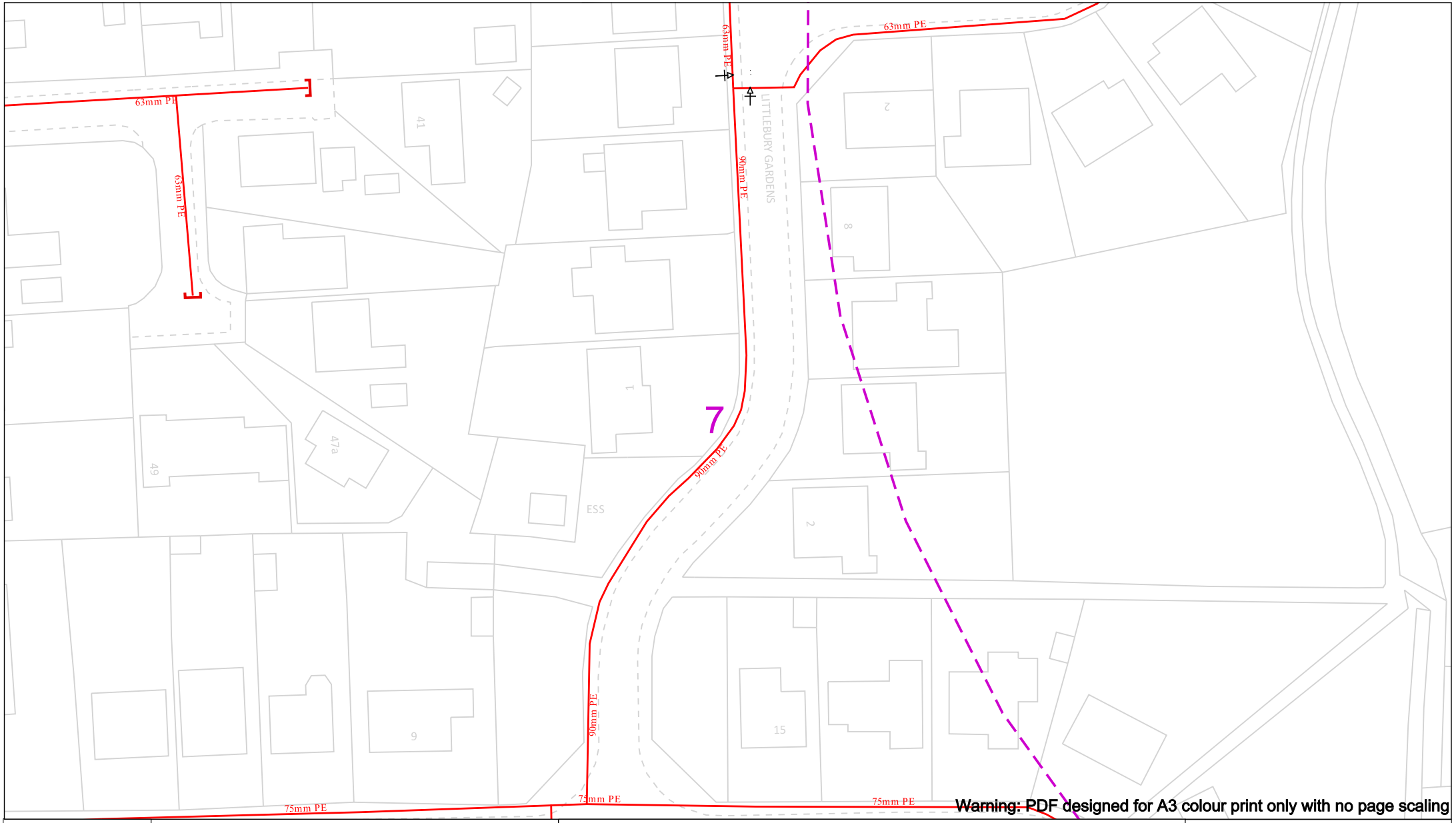
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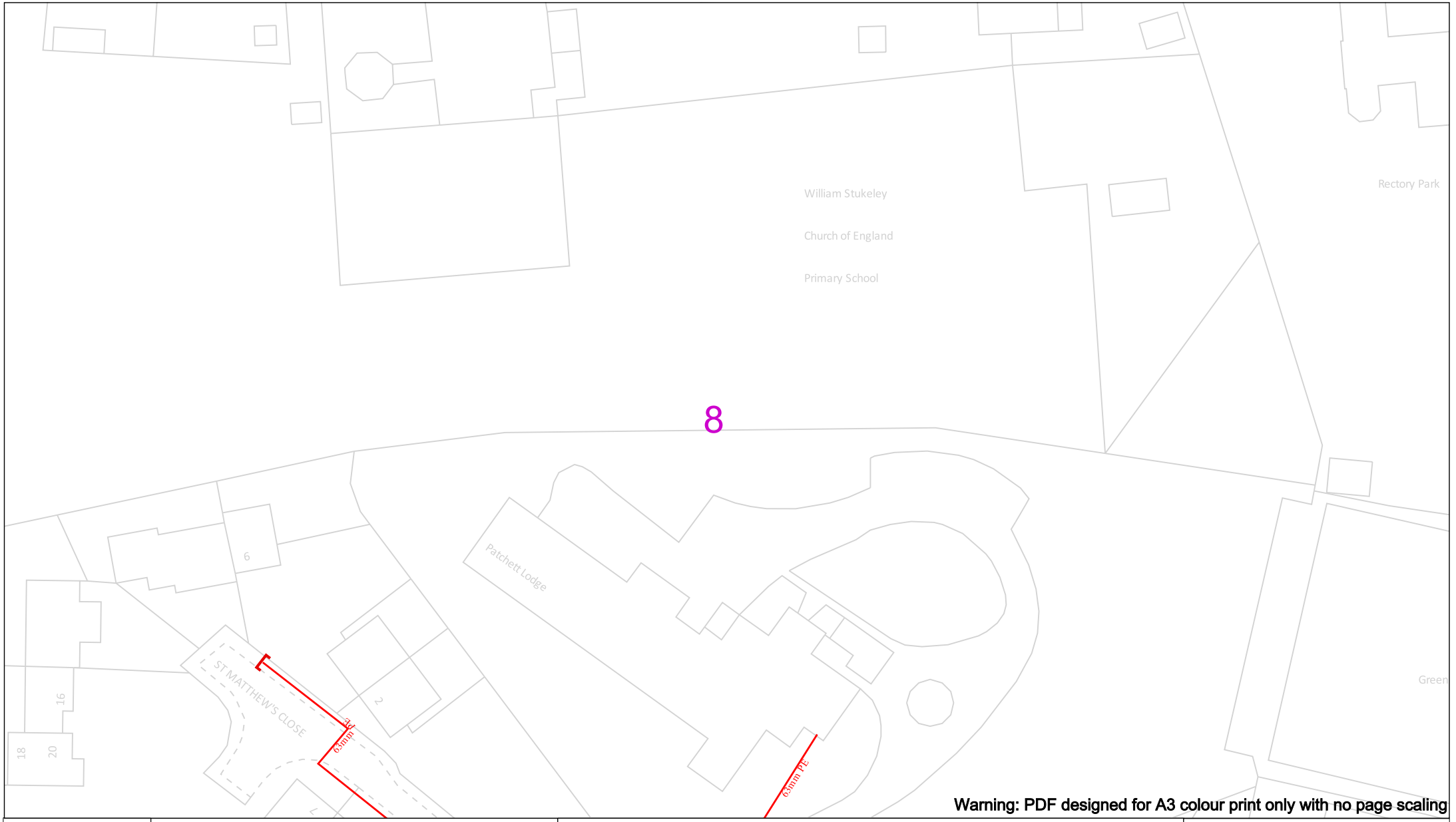
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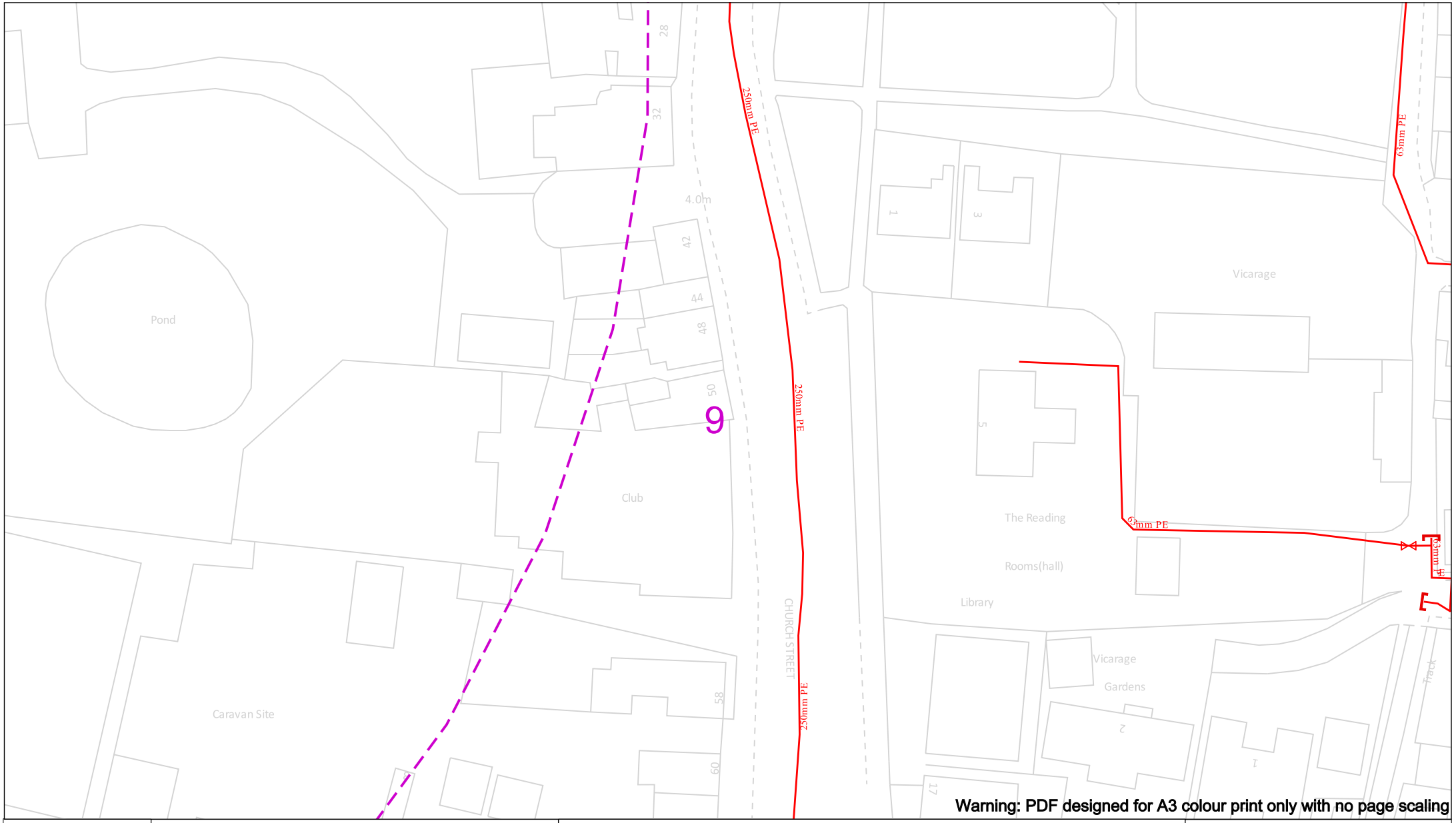
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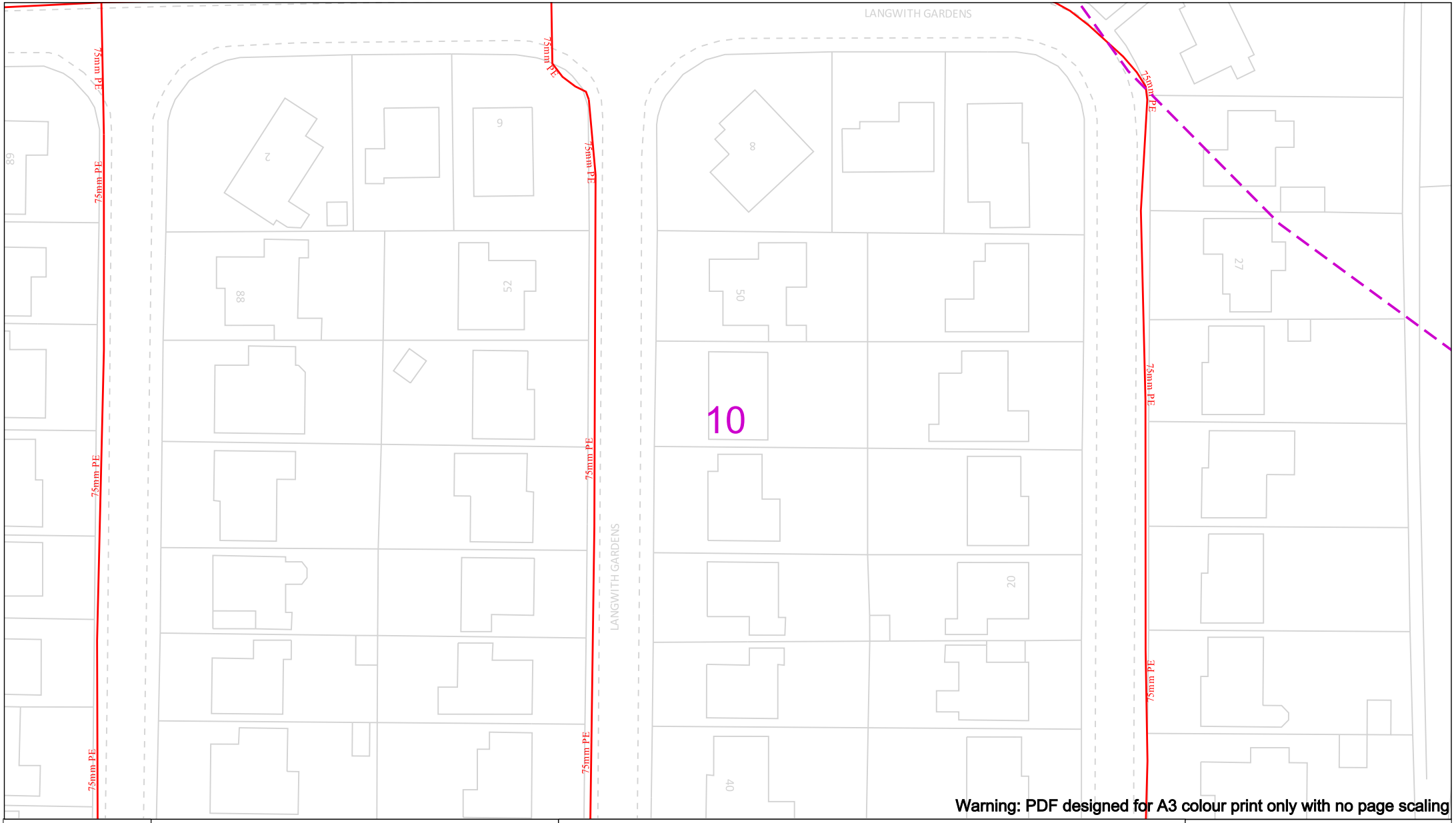
Material Change

Out of Standard Service

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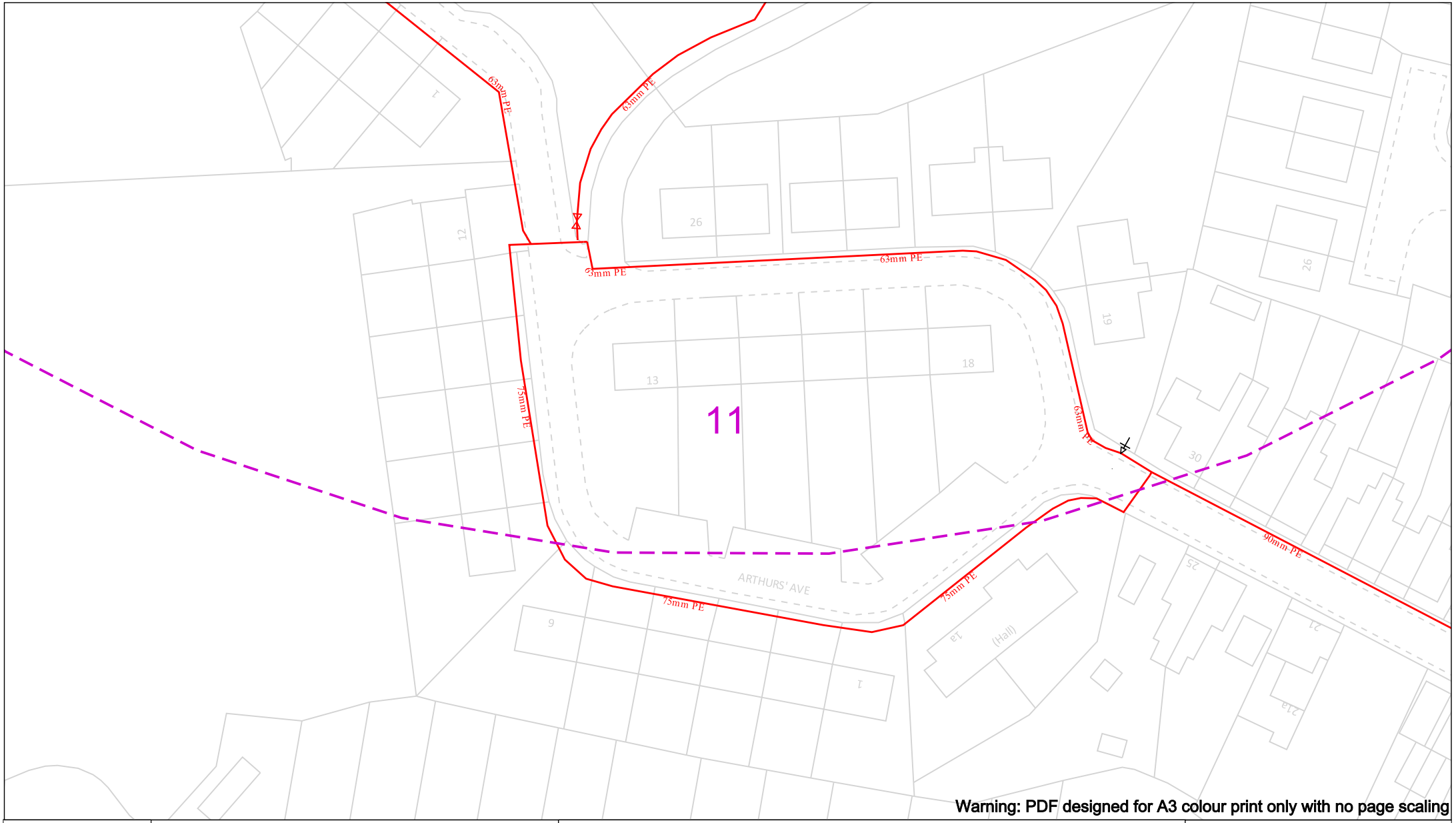
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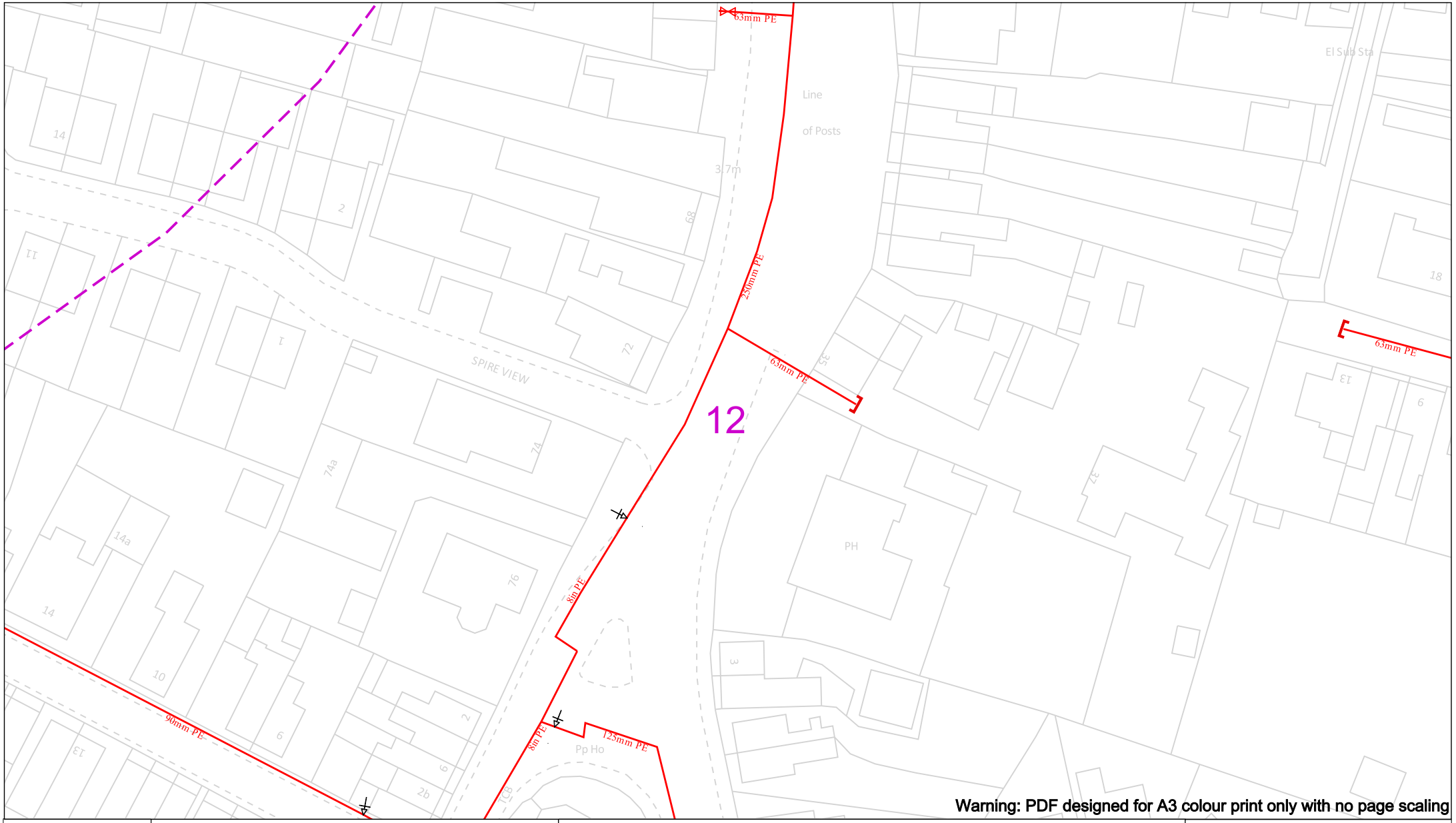
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Your Gas Network

Specification for safe working in the vicinity of Cadent assets - requirements for third parties



SSW22_v1

Cadent contact details

Disclaimer

This document is provided for use by third parties for safe working in the vicinity of Cadent assets. Where this document is used by any other party it is the responsibility of that party to ensure that this document is correctly applied.

Mandatory and non-mandatory requirements

In this document:

shall: indicates a mandatory requirement.

should: indicates best practice and is the preferred option.

If an alternative method is used then a suitable and sufficient risk assessment shall be completed to show that the alternative method delivers the same, or better, level of protection.

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11 Glossary of terms 30

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Smell gas? Call the free, 24 hour National Gas Emergency Service:

0800 111 999*

*All calls are recorded and may be monitored

Introduction



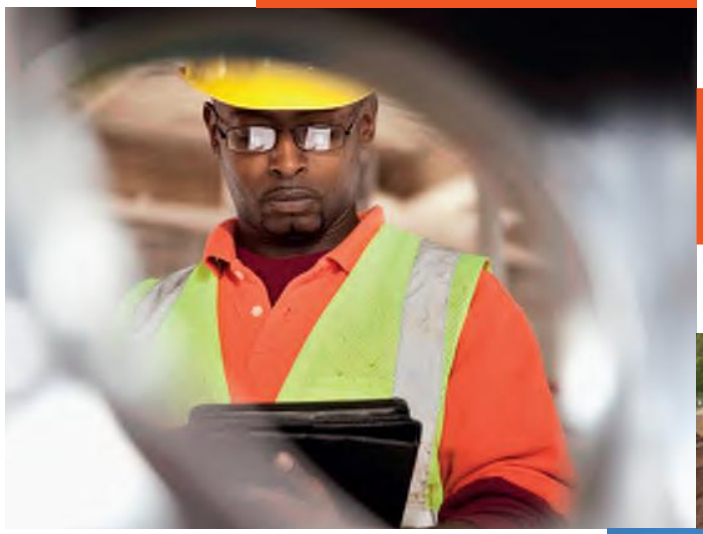
Specification for safe working in the vicinity of Cadent assets – requirements for third parties.

This specification is for issue to third parties carrying out work in the vicinity of Cadent gas assets and associated installations. It is provided to ensure that individuals planning and undertaking work take appropriate measures to prevent damage.

Any damage to a gas asset, or its coating can affect its integrity and can result in failure of the asset with potentially serious hazardous consequences for individuals located in the vicinity.

It is therefore essential that the safety advice outlined in this document is complied with when working near to a Cadent asset. If Cadent consider any work to be in breach of the requirements stipulated in this document, then the Cadent responsible person will request that work is suspended until the non- compliances have been rectified.

Keeping you, your workers and the public safe when working near our pipelines.







The Pipelines Safety Regulations *1996* state that 'No person shall cause such damage to a pipeline as may give rise to a danger to persons' (Regulation 15). Failing to comply with these requirements could therefore result in prosecution by the Health and Safety Executive (HSE). The requirements in this document are in line with the requirements of the Institution of Gas Engineers and Managers (IGEM) recommendations *IGEM/SR/18 Edition 3 Safe Working Practices to Ensure the Integrity of Gas Assets and Associated Installations* and the HSE's guidance document *HS(G)47 Avoiding Danger from Underground Services*. It is the responsibility of the third party to ensure that any work carried out also conforms with the requirements of the Construction and Design Management (CDM) Regulations 2015 and all other relevant health and safety legislation.

Always contact Cadent prior to carrying out any work in the vicinity of Cadent assets

Contact Cadent

Contact Cadent on 0800 688588 to obtain formal consent at least 14 days before starting work. See Section 2 for more details.

Consider safety

Consider the safety requirements – Section 3 of this document.

Inform Cadent and request asset location

For asset location please contact Cadent at least 14 days before work starts to request formal asset location. See Section 4 of this document.

Observe restrictions

Observe Cadent restrictions on the allowed proximity of mechanical excavators and other power tools and the measures to protect the asset from construction vehicles when carrying out the work – Sections 5, 6.1, 6.2,7.1 and 7.2 of this document. Note: Cadent may wish to monitor the work, consult Cadent to confirm whether or not this is the case.

Specific activities

- No-dig techniques
- Change in cover
- Piling
- Seismic surveys
- Hot work
- Blasting
- Demolition
- Surface mineral extraction
- Landfilling
- Pressure testing
- Deep mining
- Wind and solar farms
- Crossing with plant and equipment

See Sections 6.3 & 7.3

Consult Cadent

Consult Cadent prior to any backfilling over, alongside or under the asset and obtain Cadent's agreement to proceed. Normally Cadent requires 48 hours' notice prior to backfilling. See Sections 6.4 & 7.4 of this document.

Important: This flowchart should be used in conjunction with the entire SSW22 document and not in isolation. If, at any time during the works, the asset is damaged even slightly then observe the precautions in Section 9 of this document.

If in doubt, contact Cadent.

1 Scope

This specification sets out the safety precautions and other conditions associated with working in the vicinity of all Cadent assets, located in both negotiated easements (see Section 11) and public highways.

2 Formal consent

Cadent assets are located either, within an easement agreed with the landowner (at the time of installation) or within the highway. As the required arrangements for working within an easement and working within the highway differ, this document highlights the specific requirements for these two types of area.

No work shall be undertaken in the vicinity of the asset without the formal written consent of Cadent.

Any documents handed to contractors, or other individuals undertaking work (e.g. farmer, local authority etc.), on site by Cadent, shall be signed for by the site manager (to be shared with all individuals on site).







2 Formal consent

2.1 Within an easement

The promoter of any works (see Section 11) within an easement (or within 3m of asset location) shall provide Cadent with details of the proposed works including a risk assessment and method statement of how the work is intended to be carried out. Work shall not go ahead until formal written consent has been given by Cadent. This will include details of Cadent's protection requirements, contact telephone numbers and the emergency telephone number. On acceptance of Cadent's requirements, the promoter of the works shall give Cadent at least 14 days notice before commencing work on site.

In addition to formal written consent, an easement crossing agreement (deed of indemnity) may be required. This shall be discussed with the Cadent responsible person prior to the commencement of the works.

2.2 Within a highway

Work shall be notified to Cadent in accordance with the requirements of The New Roads and Street Works Act (NRSWA) and HS(G)47. The promoter of any works within the highway should provide Cadent with details of the proposed works, including a risk assessment and method statement of how the work is intended to be carried out. This shall be submitted at least 14 days before the planned work is to be carried out. If similar works are being carried out at a number of locations in close proximity, a single risk assessment and method statement should be adequate depending on the nature of the works. Work should not go ahead until formal written consent has been given by Cadent. This will include details of Cadent's protection requirements, contact telephone numbers and the emergency telephone number.

3 Health, safety and environmental considerations

3.1 Safe control of operations

All working practices shall be agreed by Cadent prior to work commencing. All personnel working on site shall be made aware of the potential hazard of the asset and the actions they should follow in case of an emergency.

3.2 Deep excavations

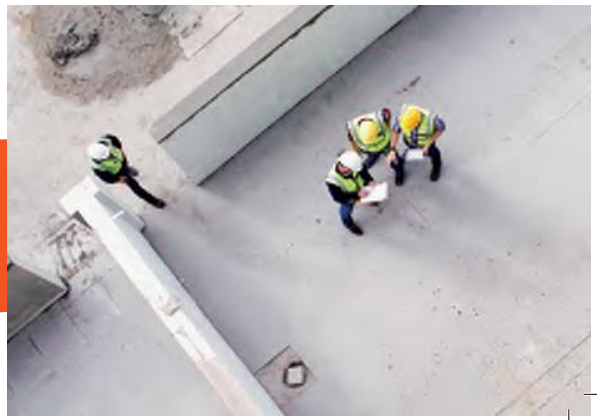
Special consideration should be given to the hazards associated with deep excavations when working within or at a close proximity to the asset.

3.3 Positioning of plant

Unless written authority has been given by Cadent, mechanical excavators and any other powered mechanical plant shall not be sited or moved over an asset location. Mechanical excavators and any other powered mechanical plant shall not dig on one side of the asset when the cab of the excavator positioned on the other side. Mechanical excavators, any other powered mechanical plant, and other traffic shall be positioned far enough away from the asset trench to prevent trench wall collapse.

3.4 Risk assessment

Works in the vicinity of gas assets may have an impact on the safety of the general public, site workers, Cadent staff and contractors, and may affect the local environment. Anyone (e.g. contractors, site workers, farmers, local authorities etc.) working close to the asset, shall carry out suitable and adequate risk assessments. The risk assessment must have acceptance from the Cadent responsible person prior to the commencement of work, to ensure that all such issues are properly considered and risks mitigated.



4 Location of gas assets

Cadent asset records shall be consulted to establish the indicative location of the gas assets in relation to the promoters work area.

Prior to site work commencing the gas assets should be located to verify the indicative location.

This should be carried out through non-intrusive methods utilising pipe locators. Once located the gas assets should be marked out at regular intervals using asset location markers with triangular flags (see Appendix A) or other suitable methods.

The requirements for trial holes to locate the asset or determine levels at crossing points shall be determined on site by the Cadent responsible person.

For assets exceeding 2 bar, the excavation of all trial holes shall be monitored by Cadent. For assets not exceeding 2 bar, this monitoring will be at the discretion of the Cadent responsible person. Any changes shall be agreed by Cadent.

Safe digging practices, in accordance with HSE publication HS(G)47 should be followed. Direct and consequential damage to gas plant can be dangerous both to employees and to the general public

5 Temporary and permanent protective measures

No temporary or permanent protective measures, including the installation of concrete slab protection, shall be installed over or near to the Cadent asset without the prior permission of Cadent. Cadent will need to approve the material, dimensions and method of installation of the proposed protective measure.

The method of installation shall be confirmed through the submission of a formal written method statement from the contractor to Cadent. Where permanent slab protection is to be applied over the asset, Cadent will normally carry out a coating survey of metallic assets to check that there is no existing damage to the coating prior to the slab protection being put in place.

Cadent shall therefore be given at least 14 days notice prior to the laying of any slab protection to arrange for this survey to be carried out.

Generally, due to the need for future access to below 2 bar gas assets, permanent slabs are not permitted but, can be approved at Cadent's discretion.

The safety precautions detailed in section 3 and either section 6 or 7 of this document should also be observed during the installation of the asset protection.



6 Working in the vicinity of a gas asset exceeding 2 bar

6.1 Excavation

6.1.1 In proximity to an asset in an easement

Following location and marking of the asset in agreement with the Cadent responsible person, powered mechanical excavation may be used no closer than 3 meters **(see Figure 1)**. The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

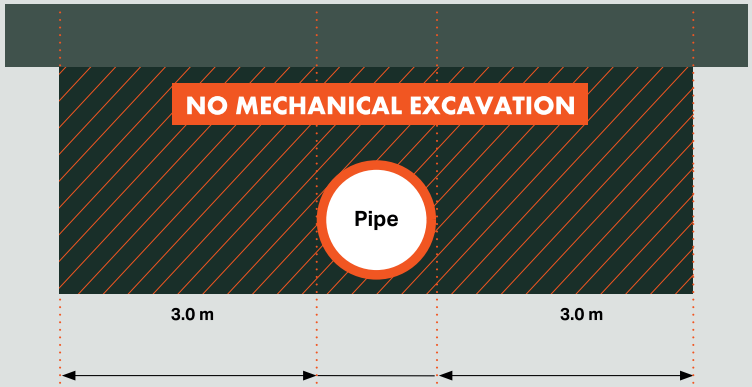
Any fitting, attachment or connecting pipework on the asset shall be exposed by hand. If third parties are using any form of trench support system they shall ensure that none of the components are in contact with the Cadent asset.

Consideration may be given to a relaxation of these limits or lower risk excavation methods by agreement with the Cadent responsible person on site.

Where sufficient depth of cover exists and the absence of attachments and projections has been confirmed (e.g. valve spindles, pressure points etc.) and following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 0.25 metres, using a toothless bucket.

No topsoil or other materials shall be stored within the easement without the written permission of Cadent. No fires are allowed in the easement strip or close to above ground gas installations.

Figure 1. Excavation restrictions



After the completion of the work, the level of cover over the asset should be the same as that prior to work commencing, unless otherwise agreed by Cadent.

No new service shall be laid parallel to the asset within the easement. In special circumstances, and only with formal written agreement from Cadent, this may be relaxed for short excursions where the service shall be laid no closer than 0.6 metres.

Where work is being carried out parallel to the asset, within or just alongside the easement, suitable barriers shall be erected for protection between the works and the asset to prevent encroachment.

6.1.2 In proximity to an asset in the highway

Following location and marking of the asset in agreement with the Cadent responsible person, powered mechanical excavation may be used no closer than 3 meters **(see Figure 1)**.

The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.



Any fitting, attachment or connecting pipework shall be exposed by hand. If third parties are using any form of trench support system they shall ensure that none of the components are in contact with the Cadent asset.

Removal of the bituminous or concrete highway surface layer by mechanical means is permitted to a depth of 0.3 metres, unless any attachments or projections are present on the asset (e.g. valve spindles, pressure points etc.). The use of chain trenchers is not permitted within 3 metres of the asset. The Cadent responsible person may need to be present to monitor this work. Where the bituminous or concrete highway surface layer extends below 0.3 metres deep, it shall only be removed by hand-held power assisted tools under the observation of Cadent.

In special circumstances, consideration may be given to a relaxation of these rules by agreement with the Cadent responsible person and only whilst they remain on site.

6 Working in the vicinity of a gas asset exceeding 2 bar

6.1.3 Crossing over an asset (Open cut)

Where a new service is to cross over the asset, a clearance distance of 0.6 metres between the crown of the asset and underside of the service should be maintained. If this cannot be achieved, the service shall cross below the asset, **(see section 6.1.4).**

In special circumstances, this distance may be reduced at the discretion of the Cadent responsible person on site.

6.1.4 Crossing below an asset (Open cut)

Where a service is to cross below the asset, a clearance distance of 0.6 metres between the crown of the service and underside of the asset shall be maintained. Where lengths of pipe greater than one metre are to be exposed, the Cadent responsible person shall be consulted.
The exposed asset/s should be suitably supported and protected by matting and timber cladding.
Any supports shall be removed prior to backfilling.

In special circumstances, this clearance distance may be reduced at the discretion of the Cadent responsible person on site.



6 Working in the vicinity of a gas asset exceeding 2 bar

6.1.5 Cathodic protection

Cathodic protection (CP) is applied to Cadent's buried steel pipe and is a method of protecting assets from corrosion by maintaining an electrical potential between the pipe and anodes placed at strategic points along the asset.

Where a new service is to be laid and similarly protected, the party installing the CP system will undertake tests to determine whether the new service is interfering with the cathodic protection of the Cadent asset.

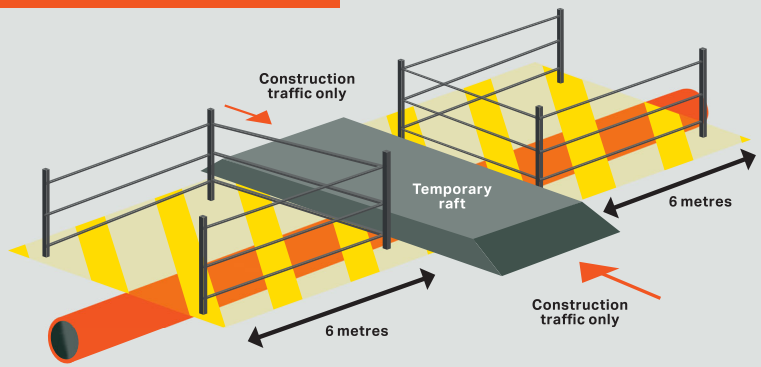
Should any cathodic protection posts or associated apparatus need to be moved to facilitate third party works, at least 14 days notice shall be given to Cadent. Cadent will undertake this work and any associated costs will be borne by the third party.

6.1.6 Installation of electrical equipment

Where electrical equipment is being installed close to Cadent's buried steel assets, the effects of a rise of earth potential under fault conditions shall be considered by the third party and a risk assessment and method statement shall be submitted to Cadent for approval, prior to the works.

The installation of electrical cables parallel to Cadent assets may induce currents into the asset. This may interfere with the effective operation of the cathodic protection system. In these instances, Cadent will require the promoter of the works to conduct pre and post energisation potential surveys of Cadent's asset. The costs for any stray current mitigation systems required will be borne by the third party promoter.

Figure 2. Construction traffic requirements



6.2 Construction traffic

Where existing roads cannot be used, construction traffic should ONLY cross the asset at agreed locations. Notices shall be placed directing traffic to the crossing points. Post and wire fencing shall be erected at all crossing points. The fence should cover the width of the easement and extend a further 6 metres along the length of the easement on both sides. **(See figure 2)**

The asset shall be protected, at the crossing points by a suitable method agreed with the Cadent responsible person prior to installation. The third party shall review ground conditions, vehicle types and crossing frequencies to determine the type and construction of the raft required.

For larger scale projects, or permanent solutions, a protection slab may be required.

6.3 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of the asset. The promoter of works is required to consult Cadent when intending to undertake one of the listed activities and/or further advice is required on whether the work has the potential to affect the asset. The table to the right shows, for some specific activities, the prescribed distances where the advice of Cadent shall be sought **(see sections 6.3.1 to 6.3.13 for further details)**

Activity	**Distance within which Cadent advice shall be sought**
Piling	**15 m**
Surface mineral extraction	**100m**
Landfilling	**100 m**
Demolition	**150 m or 400m for structure mass >10000 tonnes**
Blasting	**500 m if the MIC is greater than 200 kg** **250 m if the MIC is greater than 10 kg but less than 200 kg** **100 m if the MIC is 10 kg or less.**
Deep mining	**1000 m**
Wind turbine	**Not permitted within 1.5 times the turbine mast height from the nearest edge of a pipeline (please see www.ukopa.co.uk)**

6 Working in the vicinity of a gas asset exceeding 2 bar

6.3.1 Trenchless techniques

Where trenchless techniques are being considered, a formal risk assessment and method statement shall be produced. This risk assessment and method statement shall be formally agreed with Cadent prior to the commencement of the work. Please provide Cadent with at least 14 days notice as the Cadent responsible person may wish to be present to monitor this work.

6.3.2 Changes to depth of cover

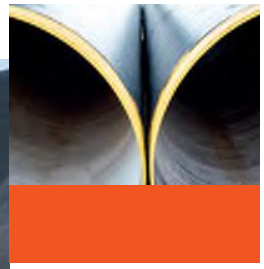
The depth of cover over Cadent's asset shall not be altered. Cadent shall be consulted for any activity proposed that will lead to a change in cover over the asset. Expert advice may need to be sought, which will be determined by the Cadent responsible person.

6.3.3 Piling

No piling shall be allowed within 15 metres of an asset without an assessment of the vibration levels at the asset. The peak particle velocity at the asset shall be limited to a maximum level of 75 mm/ sec. The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.





6.3.4 Demolition

No demolition should be allowed within 150 metres of an asset, or 400 metres for a structure mass greater than 10,000 tonnes, without an assessment of the vibration levels at the asset. The peak particle velocity at the asset shall be limited to a maximum level of 75 mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

6.3.5 Blasting

The Maximum Instantaneous Charge (MIC) dictates the distance at which an assessment of the vibration levels (at the located asset) is required. The measured distances are as follows:

- 500 m if the MIC is greater than 200 kg
- 250 m if the MIC is greater than 10 kg but less than 200 kg
- 100 m if the MIC is 10 kg or less.

The peak particle velocity at the asset shall be limited to a maximum level of 75 mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

6 Working in the vicinity of a gas asset exceeding 2 bar

6.3.6 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100 metres of an asset. Consideration should also be given to extraction around other plant and equipment associated with assets (e.g cathodic protection ground beds).

Where the mineral extraction extends up to the asset easement, a stable slope angle and stand-off distance between the asset and slope crest shall be determined by Cadent. The easement strip should be clearly marked by a suitable permanent boundary, such as a post and wire fence. Additionally, where appropriate, slope indicator markers shall be erected to facilitate the verification of the recommended slope angle as the slope is formed, by the third party. The asset easement and slope needs to be inspected periodically to identify any signs of developing instability. This may include any change of slope profile including:

- bulging,
- the development of tension cracks on the slope or easement,
- any changes in drainage around the slope.

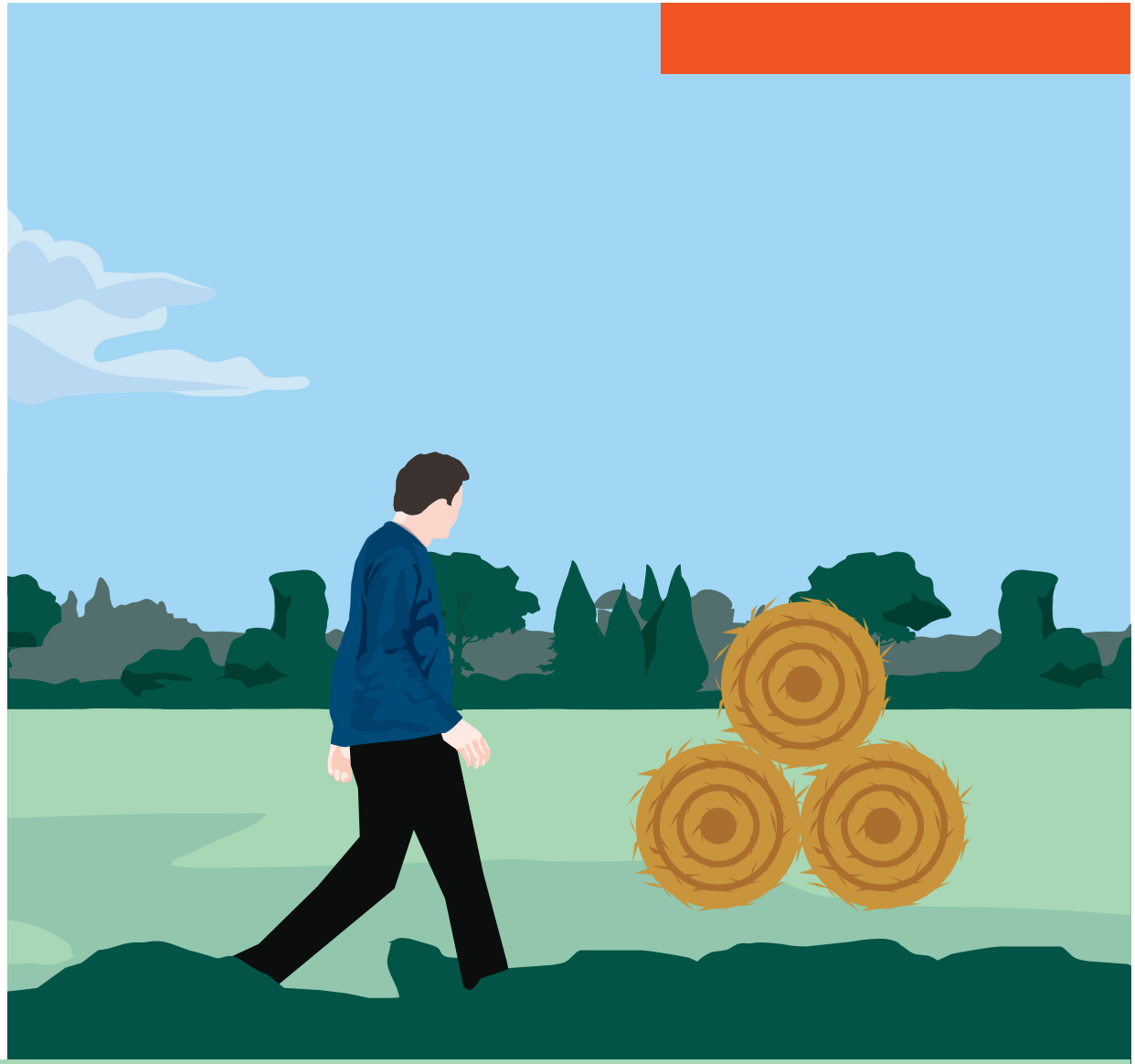
The results of each inspection should be recorded.

Where surface mineral extraction activities are planned within 100 metres of the asset but do not extend up to the asset easement boundary, Cadent shall assess whether this could promote instability in the vicinity of the asset. This may occur where the asset is routed across a natural slope or the excavation is deep. A significant cause of this problem is where the groundwater profile is affected by changes in drainage or the development of lagoons.

Where the extraction technique involves explosives, the provisions of **section 6.3.5 apply.**

6.3.7 Deep Mining

Assets routed within 1 km of active deep mining may be affected by subsidence resulting from mineral extraction. The determination of protective or remedial measures will normally require expert assistance, which can be arranged through Cadent.



6 Working in the vicinity of a gas asset exceeding 2 bar

6.3.8 Landfilling

The creation of slopes outside of the asset easements may promote instability within the vicinity of the asset. Cadent should carry out an assessment to determine the effect of any landfilling activity within 100 metres of an asset.
The assessment is particularly important if landfilling operations are taking place on a slope in which the asset is routed.

6.3.9 Pressure testing

Hydrostatic testing of a third party asset should not be permitted within 8 metres either side of a Cadent asset, to provide protection against the effects of a burst. Where this cannot be achieved, typically where the third party asset needs to cross a Cadent asset, one of the following precautions would need to be adopted:

a) limiting of the design factor of the third party pipeline to 0.3 at the asset's nominated maximum operating pressure (MOP), and the use of pre-tested pipe, or

b) the use of sleeving, or

c) Cadent conduct risk analysis of pipe failure

In either case, the third party shall submit their site specific risk assessment and safe system of works for consideration by Cadent.

6.3.10 Seismic surveys

The promoter of works shall advise Cadent of any seismic surveying work in the vicinity of an asset that will result in peak particle velocities in excess of 50 mm/ sec at the asset.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

6.3.11 Hot work

Where the Cadent's metallic gas asset has been exposed, welding (or other hot works that may involve naked flames) should not be carried out in proximity of the gas asset. This may be reduced if suitable protection and precautions has been agreed with Cadent.

If the gas asset is PE (or a PE asset is contained within a metallic sleeve) welding, or other hot works that may involve naked flames, should not take place within 0.5 m of the gas asset. This may be reduced if suitable protection and precautions have been agreed with the Cadent responsible person to prevent against the effects of sparks, radiant heat transfer etc.

The Cadent responsible person will be present to monitor all welding, burning or other 'hot work' that takes place.

6.3.12 Wind turbines

Wind turbines shall not be sited any closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of the asset.

6.3.13 Solar farms

Solar farms can be built adjacent to assets but never within the easement. Advice shall be sought from Cadent at the early stages of design to ensure that electrical interference, security, future access and construction methods can be mutually agreed.

6.4 Backfilling

No backfilling should be undertaken without Cadent's agreement to proceed. The Cadent responsible person will stipulate the necessary consolidation requirements. Some equipment may not be suitable for use over or around the asset due to the adverse effects of excessive compaction and vibration levels. The Cadent responsible person will be able to advise on suitable equipment. Third parties undertaking work shall provide Cadent with 48 hours notice, or shorter only if agreed with Cadent, of the intent to backfill over, under or alongside the asset.

This requirement should also apply to any backfilling operations that:

- are within 3 metres of the asset, or
- could influence the ground stability.

Any damage to the asset or coating shall be reported to Cadent in order that damage can be assessed and repairs can be carried out.

Minor damage to pipe coating and test leads will be repaired by Cadent free of charge. If the asset has been backfilled without the knowledge of the Cadent responsible person, the third party will need to re-excavate to enable the condition of the asset coating to be assessed.

7 Working in the vicinity of a gas asset not exceeding 2 bar

7.1 Excavation

7.1.1 Working in vicinity of iron pipework

Where excavation work this is deeper than 1.5 metres is within 8 metres of grey iron mains an integrity assessment will be required by the Cadent responsible person.

Care should be taken to ensure that any cast iron asset is suitably protected and supported during the works. This is due to the susceptibility of the pipe material to fracture and joint leakage.

Precautionary measures should be agreed with the Cadent responsible person before exposing an iron fitting, for example, bend, tee or cap, etc. This is to ensure that fittings that are not self-anchored are adequately protected against failure during excavation.

7.1.2 In proximity to an asset in an easement

Excavation with a powered mechanical excavator should not be carried out until the asset has been located using vacuum or hand excavation. All mechanical excavation should be undertaken whilst utilising a banksman and shall not be permitted within 0.5 metres of the asset.

The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

Any fitting, attachment or connecting pipework shall be exposed by hand. If third parties are using any form of trench support system they shall ensure that none of the components are in contact with the Cadent asset.

Consideration may be given to a relaxation of these limits or lower risk excavation methods by agreement with the Cadent responsible person on site.

Where sufficient depth of cover exists and the absence of attachment and projections has been confirmed (e.g. valve spindles, pressure points etc.) and following evidence from hand dug trial holes, light tracked vehicles may be permitted to strip topsoil to a depth of 0.25 metres, using a toothless bucket.

No topsoil or other materials shall be stored within the easement without the written permission of Cadent. No fires are allowed in the easement strip or close to above ground gas installations.

After the completion of the work, the level of cover over the asset should be the same as that prior to work commencing, unless otherwise agreed with by Cadent.

No new service shall be laid parallel to the asset within the easement. In special circumstances, and only with formal written agreement from Cadent, this may be relaxed for short excursions where the service shall be laid no closer than 0.6 metres.

Where work is being carried out parallel to the asset, within or just alongside the easement, suitable barriers shall be erected for protection between the works and the asset to prevent encroachment.

7.1.3 In proximity to an asset in the highway

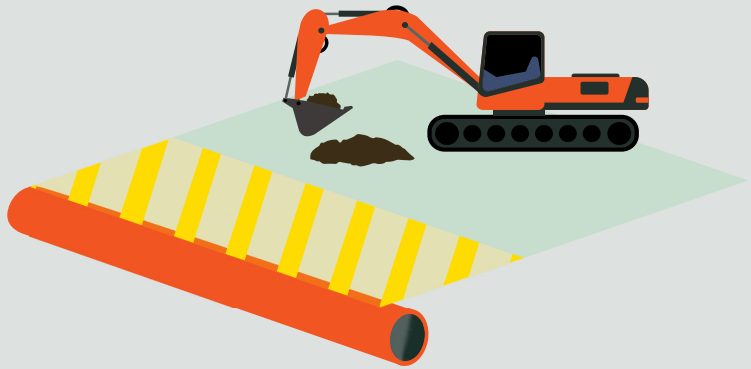
Excavation with a powered mechanical excavator should not be carried out until the asset has been located using vacuum or hand excavation. All mechanical excavation should be undertaken while utilising a banksman and shall not be permitted within 0.5 metres of the asset.

The use of toothed excavator buckets vastly increases the potential for damage to assets, therefore only toothless buckets shall be used.

Any fitting, attachment or connecting pipework on the asset shall be exposed by hand. If third parties are using any form of trench support system they shall ensure that none of its components are in contact with the asset.

Removal of the bituminous or concrete highway surface layer by mechanical means is permitted to a depth of 0.3 metres, unless any attachments or projections are present on the asset (e.g. valve spindles, pressure points etc.). The use of chain trenchers to do this is not permitted within 3 metres of the asset. The Cadent responsible person may need to be present to monitor this work. Where the bituminous or concrete highway surface layer extends below 0.3 metres deep, it shall only be removed by hand-held power assisted tools under the observation of Cadent.

In special circumstances, consideration may be given to a relaxation of these rules by agreement with the Cadent responsible person on site and only whilst they remain on site.



7 Working in the vicinity of a gas asset not exceeding 2 bar

7.1.4 Crossing over an asset (Open cut)

Where a new service is to cross over the asset, a minimum clearance distance of 1.5 times the diameter or 0.3 metres, whichever is greater should be maintained. If this cannot be achieved, the service shall cross below the asset, see **Section 7.1.4.**

In special circumstances, this distance may be reduced at the discretion of the Cadent responsible person on site.

7.1.5 Crossing below an asset (Open cut)

Where a service is to cross below the asset, a minimum clearance distance of 1.5 times the diameter or 0.3m, whichever is greater, between the crown of the new service and underside of the asset shall be maintained. The exposed asset/s should be suitably supported and protected by matting and timber cladding. Any supports shall be removed prior to backfilling.

7.1.6 Cathodic protection

Cathodic protection (CP) is applied to some buried steel pipes and is a method of protecting assets from corrosion by maintaining an electrical potential between the asset and anodes placed at strategic points along the asset. Where a new service is to be laid and similarly protected, the party installing the CP system will undertake tests to determine whether the new service is interfering with the cathodic protection of the Cadent asset.

Should any cathodic protection posts or associated apparatus need moving to facilitate third party works, appropriate notice, at least 14 days, shall be given to Cadent. Cadent will undertake this work and any associated costs will be borne by the third party.

7.1.7 Installation of electrical equipment

Where electrical equipment is being installed close to Cadent's buried steel asset, the effects of a rise of earth potential under fault conditions shall be considered by the third party and a risk assessment and method statement shall be submitted to Cadent for approval, prior to the works.

The installation of electrical cables parallel to Cadent assets may induce currents into the asset. This may interfere with the effective operation of the cathodic protection system. In these instances, Cadent will require the promoter of the works to conduct pre and post energisation potential surveys of Cadent's asset. The costs for any stray current mitigation systems required will be borne by the third party promoter.

7.2 Construction traffic

Where existing roads cannot be used, construction traffic should ONLY cross the asset at agreed locations. Notices shall be placed directing traffic to the crossing points. Post and wire fencing shall be erected at all crossing points. The fence should cover the width of the easement and extend a further 6 metres along the length of the easement on both sides. **(See figure 2)**

The asset shall be protected, at the crossing points, by a suitable method agreed with the Cadent responsible person prior to installation. The third party shall review ground conditions, vehicle types and crossing frequencies to determine the type and construction of the raft required.

For larger scale projects, or permanent solutions, a protection slab may be required.

7.3 Specific activities

This section details the precautions that need to be taken when carrying out certain prescribed activities in the vicinity of the asset. The promoter of works is required to consult Cadent when intending to undertake one of the listed activities and/or further advice is required on whether the work has the potential to affect the asset. The table to the right shows, for some specific activities, the prescribed distances where the advice of Cadent shall be sought **(see Sections 6.3.1 to 6.3.13 for further details)**

Activity	**Distance within which Cadent advice shall be sought**
Piling	**15 m**
Surface mineral extraction	**100 m**
Landfilling	**100 m**
Demolition	**150 m or 400m for structure mass >10000 tonnes**
Blasting	**500 m if the MIC is greater than 200 kg** **250 m if the MIC is greater than 10 kg but less than 200 kg** **100 m if the MIC is 10 kg or less.**
Deep mining	**1000 m**
Wind turbine	**Not permitted within 1.5 times the turbine mast height from the nearest edge of a pipeline (please see www.ukopa.co.uk)**

7 Working in the vicinity of a gas asset not exceeding 2 bar

7.3.1 Trenchless techniques

Where trenchless techniques are being considered, a formal risk assessment and method statement shall be produced. This risk assessment and method statement shall be formally agreed with Cadent prior to the commencement of the work. Please provide Cadent with at least 14 days notice as the Cadent responsible person may wish to be present to monitor this work.

7.3.2 Changes to depth of cover

The depth of cover over Cadent's asset shall not be altered. Cadent shall be consulted for any activity proposed that will lead to a change in cover over the asset. Expert advice may need to be sought, which will be determined by the Cadent responsible person.



7.3.3 Piling

No piling shall be allowed within 15 metres of an asset without an assessment of the vibration levels at the asset.

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75 mm/ sec.

For ductile or cast iron assets, the peak particle velocity shall be limited to a maximum level of 25 mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

7.3.4 Demolition

No demolition should be allowed within 150 metres of an asset for 400m for a structure mass greater than 10000 tonnes without an assessment of the vibration levels at the asset.

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75 mm/sec.

For cast iron or ductile iron assets, the peak particle velocity at the asset shall be limited to a maximum level of 25 mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

7.3.5 Blasting

The Maximum Instantaneous Charge (MIC) dictates the distance at which an assessment of the vibration levels (at the located asset) is required. The measured distances are as follows:

- 500 m if the MIC is greater than 200 kg
- 250 m if the MIC is greater than 10 kg but less than 200 kg
- 100 m if the MIC is 10 kg or less.

For steel or PE assets, the peak particle velocity at the asset shall be limited to a maximum level of 75 mm/sec.

For ductile or cast iron assets, the peak particle velocity at the asset shall be limited to a maximum level of 25 mm/sec.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

Where ground conditions include silt or sand, an assessment of the effect of vibration on settlement and liquefaction at the asset shall be made. Expert advice may need to be sought, which can be arranged through Cadent.

7 Working in the vicinity of a gas asset not exceeding 2 bar

7.3.6 Surface mineral extraction

An assessment shall be carried out on the effect of surface mineral extraction activity within 100 metres of an asset. Consideration should also be given to extraction around plant and equipment associated with assets (e.g cathodic protection ground beds).

Where the mineral extraction extends up to the asset easement, a stable slope angle and stand-off distance between the asset and slope crest shall be determined by Cadent. Where an easement exists, the easement strip should be clearly marked by a suitable permanent boundary, such as a post and wire fence. Additionally, where appropriate, slope indicator markers shall be erected to facilitate the verification of the recommended slope angle as the slope is formed, by the third party. The asset easement and slope needs to be inspected periodically to identify any signs of developing instability. This may include any change of slope profile including:

- bulging,
- the development of tension cracks on the slope or easement,
- any changes in drainage around the slope.

The results of each inspection should be recorded.

Where surface mineral extraction activities are planned within 100 metres of the asset but do not extend up to the asset easement boundary, Cadent shall assess whether this could promote instability in the vicinity of the asset.

This may occur where the asset is routed across a natural slope or the excavation is deep. A significant cause of this problem is where the groundwater profile is affected by changes in drainage or the development of lagoons.

Where the extraction technique involves explosives, the provisions of **Section 7.3.5** apply.

7.3.7 Deep mining

Assets routed within 1 km of active deep mining may be affected by subsidence resulting from mineral extraction. The determination of protective or remedial measures will normally require expert assistance, which can be arranged through Cadent.

7.3.8 Landfilling

The creation of slopes outside of the asset easements may promote instability within the vicinity of the asset. Cadent should carry out an assessment to determine the effect of any landfilling activity within 100 metres of an asset. The assessment is particularly important if landfilling operations are taking place on a slope in which the asset is routed.

7.3.9 Pressure testing

Pressure testing should not be permitted within 8 m of an asset unless suitable precautions have been taken against the effects of a pipe failure.

7.3.10 Seismic surveys

The promoter of works shall advise Cadent of any seismic surveying work in the vicinity of PE or steel assets that will result in peak particle velocities in excess of 50 mm/sec at the asset or for ductile or cast iron assets that will result in peak particle velocities in excess of 25 mm/ sec at the asset.

The promoter of the works should provide Cadent the anticipated vibration levels prior to the work commencing. The ground vibration should be monitored by the promoter to verify the anticipated levels and to ensure allowable peak particle velocity is not exceeded. Alarms should be set at suitable increments to provide a forewarning of limit exceedance. The promoter shall retain records of ground vibration levels for provision of the Cadent responsible person on request.

7.3.11 Hot work

Where the Cadent's metallic gas asset has been exposed, welding (or other hot works that may involve naked flames) should not be carried out in proximity of the gas asset. This may be reduced if suitable protection and precautions has been agreed with Cadent.

If the gas asset is PE (or a PE asset is contained within a metallic sleeve) welding, or other hot works that may involve naked flames, should not take place within 0.5 metres of the gas asset. This may be reduced if suitable protection and precautions have been agreed with the Cadent responsible person to prevent against the effects of sparks, radiant heat transfer etc.

The Cadent responsible person will determine the need to remain on site to monitor all welding, burning or other 'hot work' that takes place.

7.3.12 Wind turbines

Wind turbines shall not be sited any closer than 1.5 times the proposed height of the turbine mast away from the nearest edge of the asset.

7.3.13 Solar Farms

Solar Farms can be built adjacent to assets but never within the easement. Advice shall be sought from Cadent at the early stages of design to ensure that electrical interference, security, future access and construction methods can be mutually agreed.



7 Working in the vicinity of a gas asset not exceeding 2 bar

7.4 Backfilling

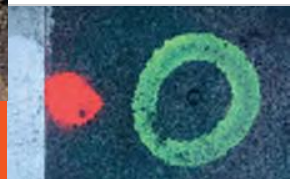
No backfilling should be undertaken without Cadent's agreement to proceed. The Cadent responsible person will stipulate the necessary consolidation requirements. Some equipment may not be suitable for use over or around the asset due to the adverse effects of excessive compaction and vibration levels. The Cadent responsible person will be able to advise on suitable equipment. Third parties undertaking work shall provide Cadent with 48 hours notice, or shorter notice only if agreed with Cadent, of the intent to backfill over, under or alongside the asset. This requirement should also apply to any backfilling operations that:

- are within 3 metres of the asset, or
- could influence the ground stability.

Any damage to the asset or coating shall be reported to the Cadent responsible person in order that damage can be assessed and repairs can be carried out.

Minor damage to pipe coating and test leads will be repaired by Cadent free of charge. If the asset has been backfilled without the knowledge of the Cadent responsible person, the third party will need to re-excavate to enable the condition of the asset coating to be assessed.





8 Working in the vicinity of an Above Ground Installation (AGI)

Where excavations are to be made within 10 metres of the perimeter of an associated gas installation, appropriate protection methods should be determined and recorded by the Cadent responsible person.

At least 14 days notice is required as Cadent may wish to be on site when specific activities are being undertaken.

In addition to this, the safety advice detailed in either section 6 or 7 shall be observed when working in the proximity of an AGI.

Access to the gas asset should be maintained at all times.

9 Action in the case of damage to the asset

If the Cadent asset is damaged, even slightly, and even if no gas leak has occurred, then the following precautions shall be taken immediately:

- Shut down all plant and machinery and extinguish any potential sources of ignition.
- Evacuate all personnel from the vicinity of the asset
- Notify Cadent using the free 24 hour emergency telephone number 0800 111999
- Notify the Cadent responsible person immediately using the contact telephone number provided.
- Ensure no one approaches the asset.
- Do not try to stop any leaking gas.
- Provide assistance as requested by Cadent, or emergency services to safeguard persons and property.

10 References

NRSWA	**New Roads & Street Works Act**
HS(G)47	**HSE Guidance 'Avoiding Danger from Underground Services'**
IGEM/SR/18	**Safe Working Practices to Ensure the Integrity of Gas Pipelines and Associated Installations (Institution of Gas Engineers)**

11 Glossary of Terms

Easement

Easements are negotiated legal entitlements between Cadent and landowners and allow Cadent to lay, operate and maintain assets within the easement strip. Easement strips may vary in width, typically between 6 and 25 metres depending on the diameter and pressure of the pipeline. Consult Cadent for details of the extent of the easement strip where work is intended.

Liquefaction

Liquefaction is a phenomenon in which the strength and stiffness of the soil is reduced by earthquake shaking or other rapid loading. Liquefaction occurs in saturated soils, that is, soils in which the space between individual particles is completely filled with water. When liquefaction occurs, the strength of the soil decreases and the ability of the soil to support assets are reduced.

Promoter of works

The person or persons, firm, company or authority for whom new services, structures or other works in the vicinity of existing Cadent assets are being undertaken.

Cadent responsible person

The person or persons appointed by Cadent with the competencies required to act as the Cadent representative for the purpose of monitoring the particular activity.

Banksman

Another person who assists the machine operator to drive from a position where they can safely see into the excavation and warn the driver of any services or other obstacles.

This person should remain outside of the operating radius of the excavator arm and bucket.

Appendix A

Asset location markers



Emergency

If you hit an asset, whether the damage is visible or not, or in the event of an emergency, call the National Gas Emergency Service immediately on

0800 111 999*

*All calls are recorded and may be monitored

If you are planning to do work near or in the vicinity of an asset, please contact the Plant Protection team for free on:

0800 688 588*
plantprotection@cadentgas.com

Cadent Plant Protection
Block 1
Brick Kiln Street
Hinckley
LE10 0NA

Self service for plant enquiries

beforeyoudig.nationalgrid.com

This is a free online enquiry service giving results within minutes from a grid reference, postcode or street name. This site allows you to submit enquiries about activities and work that you are planning, which may have an impact on the Cadent gas distribution and networks.

linesearchbeforeudig.co.uk

This is a free online enquiry service giving instant results from a grid reference, postcode or street name. If your result is within a zone of interest, you can click directly through to **cadentgas.com/digging-safely.**

Note
Linesearch service is not available for all Cadent assets. Therefore, please click on the Cadent link or call Plant Protection to ensure you have all the available information.

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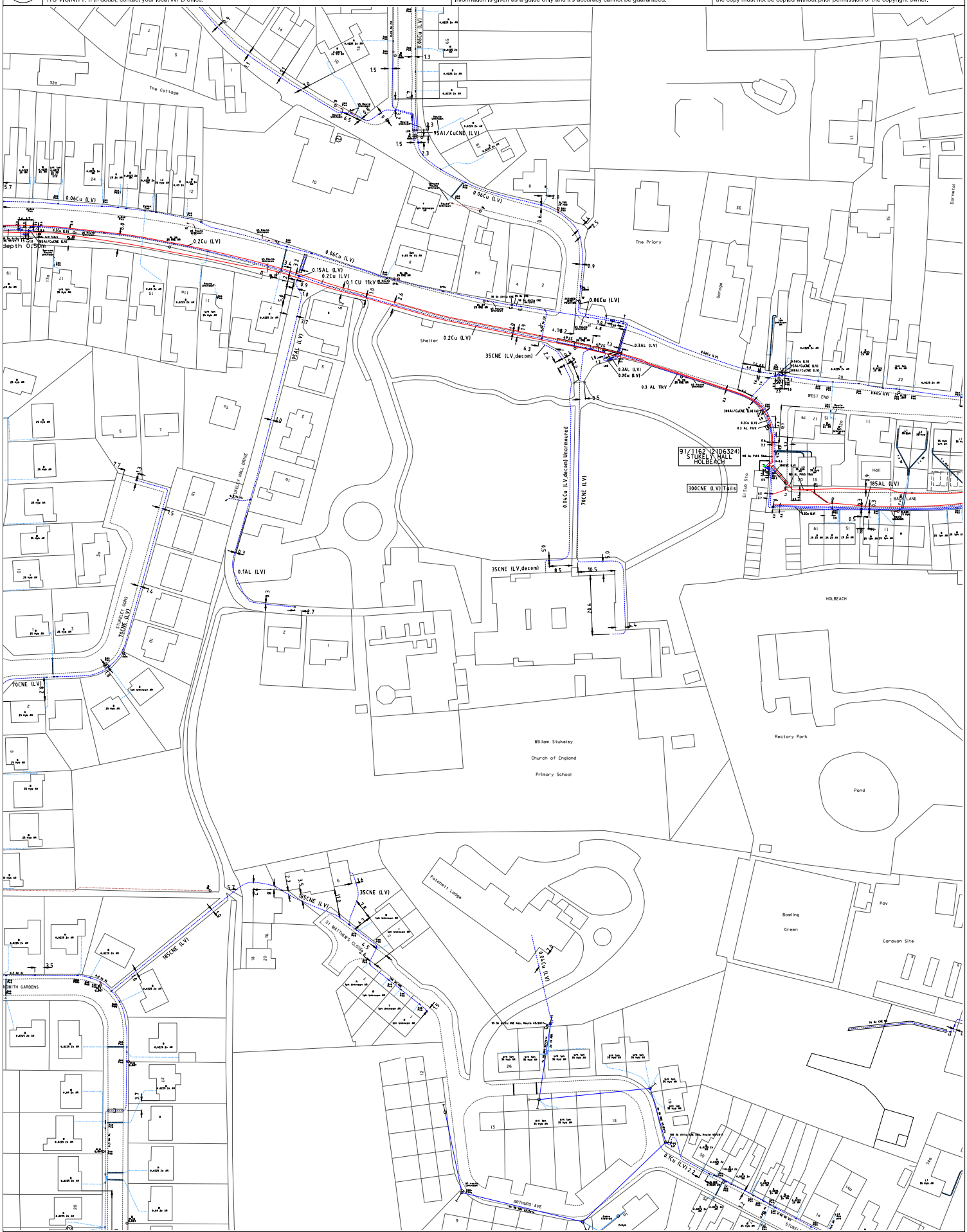
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Electric

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SURF TELECOMS APPARATUS — S — S

PILOT CABLES — P — P

OVERHEAD LINE: PL, SERVICE, LV, HV (11kV), HV (33kV), HV (66kV), HV (132kV)

UNDERGROUND CABLE

PME Earth — Pole Mounted Transformer

Underground Earth — Ground Mounted Transformer

ADVICE SHOULD BE SOUGHT FROM THE WESTERN POWER DISTRIBUTION GENERAL ENQUIRIES (0800 096 3080) FOR ANY WORK THAT IS TO TAKE PLACE IN PROXIMITY TO 132kV UNDERGROUND CABLES AND 132kV OVERHEAD LINES

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PRINTED BY:	Paul Hodgson
DATE:	19/10/2021
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PRODUCED BY:	WPD Data Portal - EMU Online

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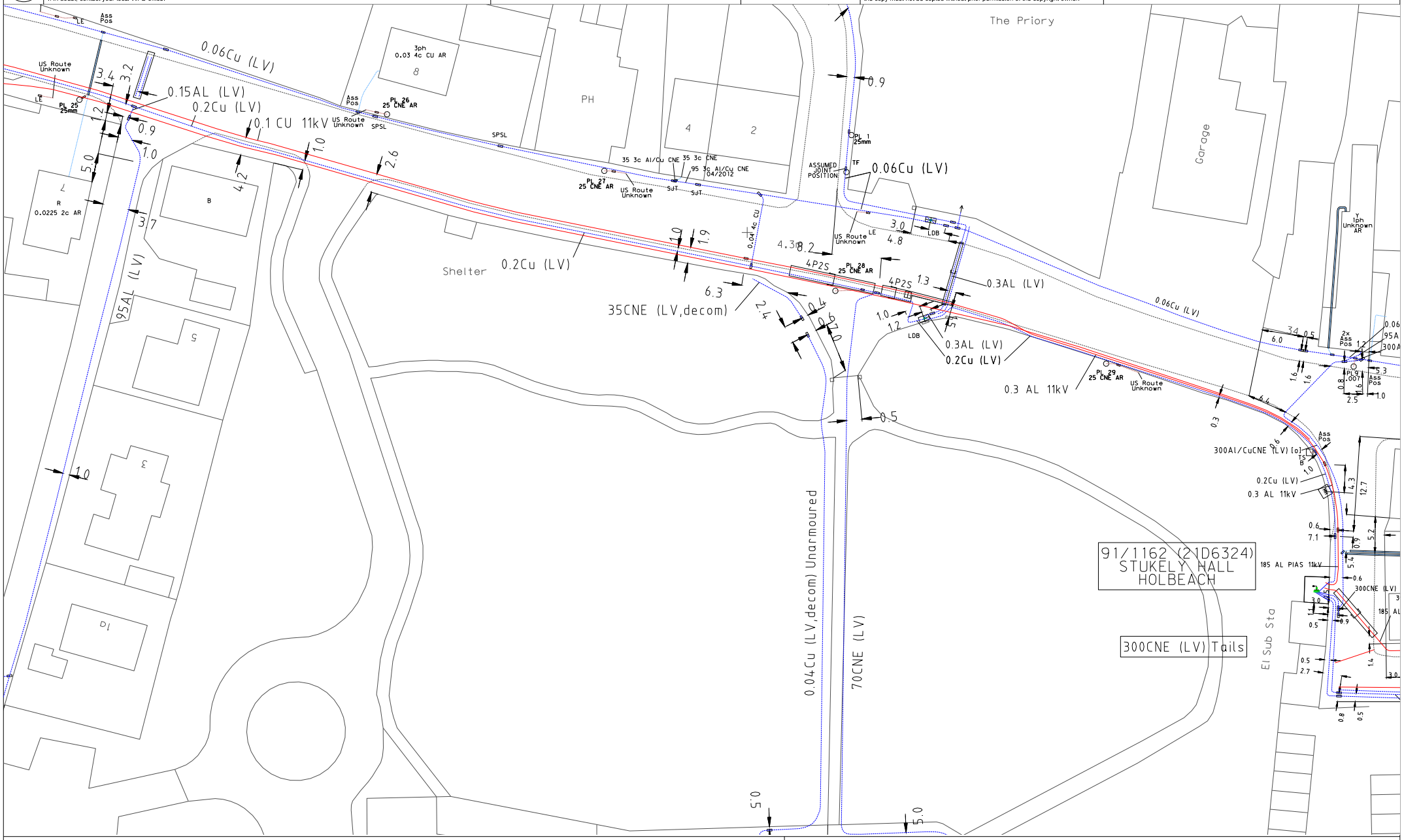
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SURF TELECOMS APPARATUS

PILOT CABLES

OVERHEAD LINE

UNDERGROUND CABLE
PL
SERVICE
LV
HV (11kV)
HV (33kV)
HV (66kV)
HV (132kV)

PME Earth

Underground Earth

Pole Mounted Transformer

Ground Mounted Transformer

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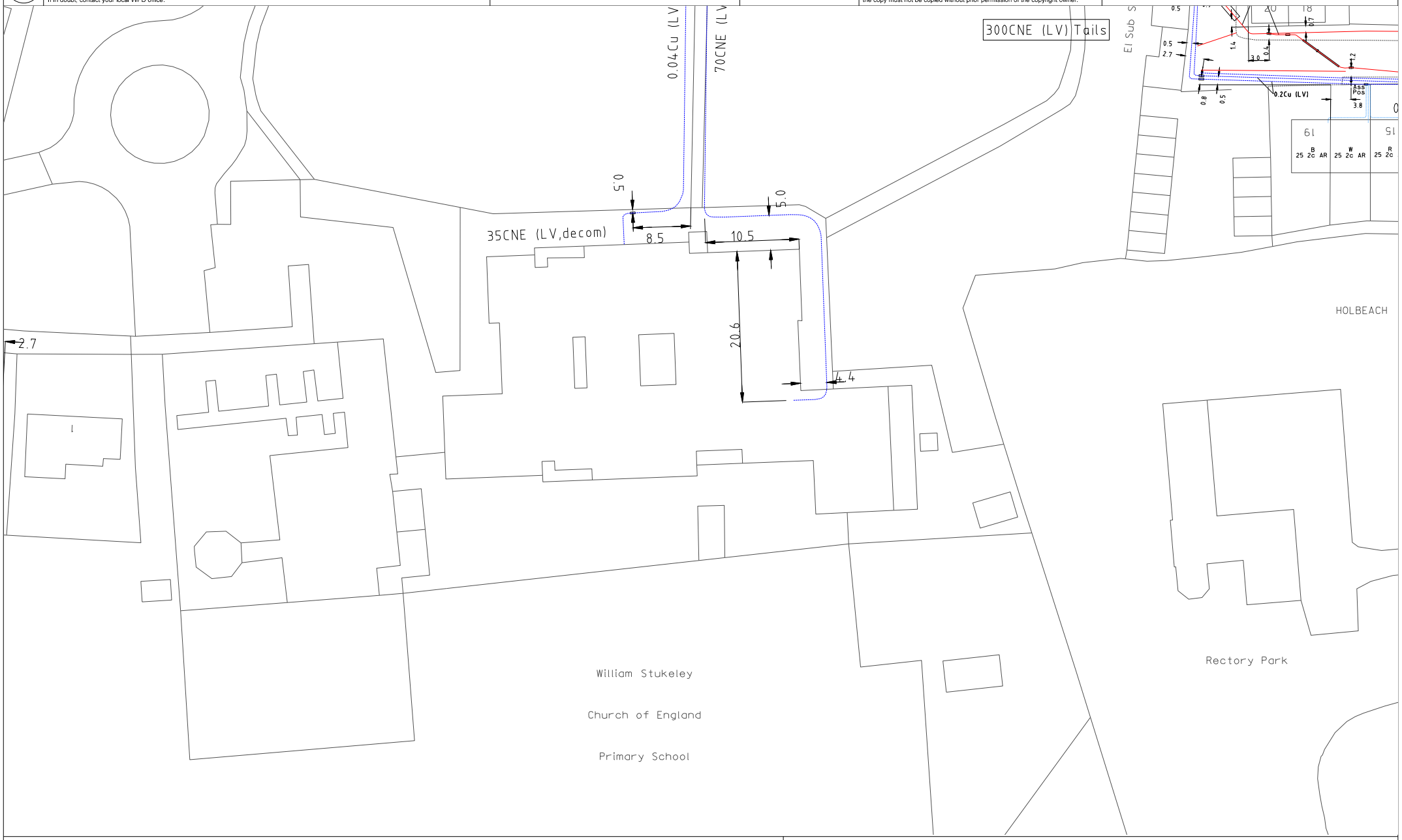
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SURF TELECOMS APPARATUS

PILOT CABLES

OVERHEAD LINE

UNDERGROUND CABLE

PL
SERVICE
LV
HV (11kV)
HV (33kV)
HV (66kV)
HV (132kV)

PME Earth

Underground Earth

Pole Mounted Transformer

Ground Mounted Transformer

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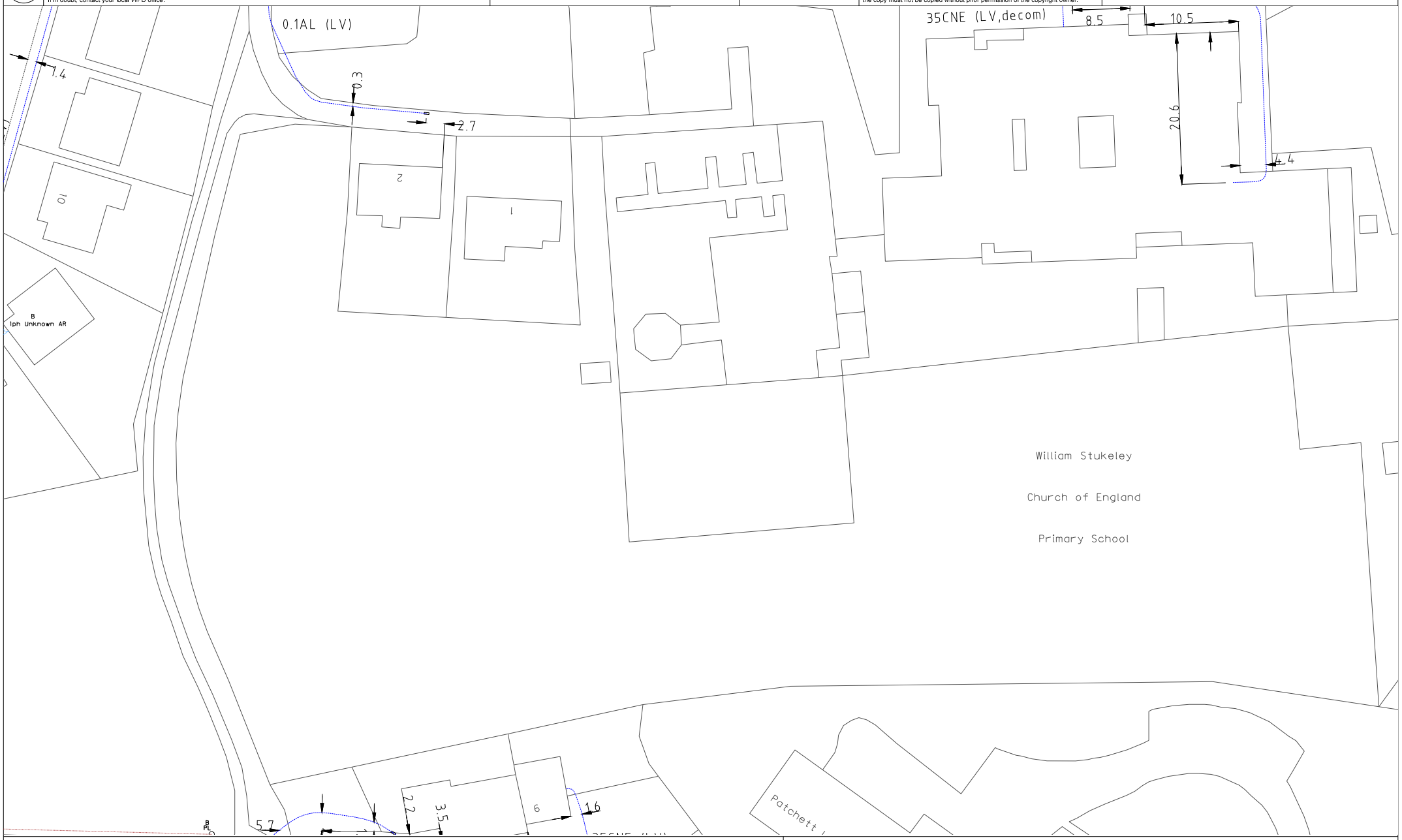
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SURF TELECOMS APPARATUS

PILOT CABLES

OVERHEAD LINE

UNDERGROUND CABLE

PL
SERVICE
LV
HV (11kV)
HV (33kV)
HV (66kV)
HV (132kV)

PME Earth

Underground Earth

Pole Mounted Transformer

Ground Mounted Transformer

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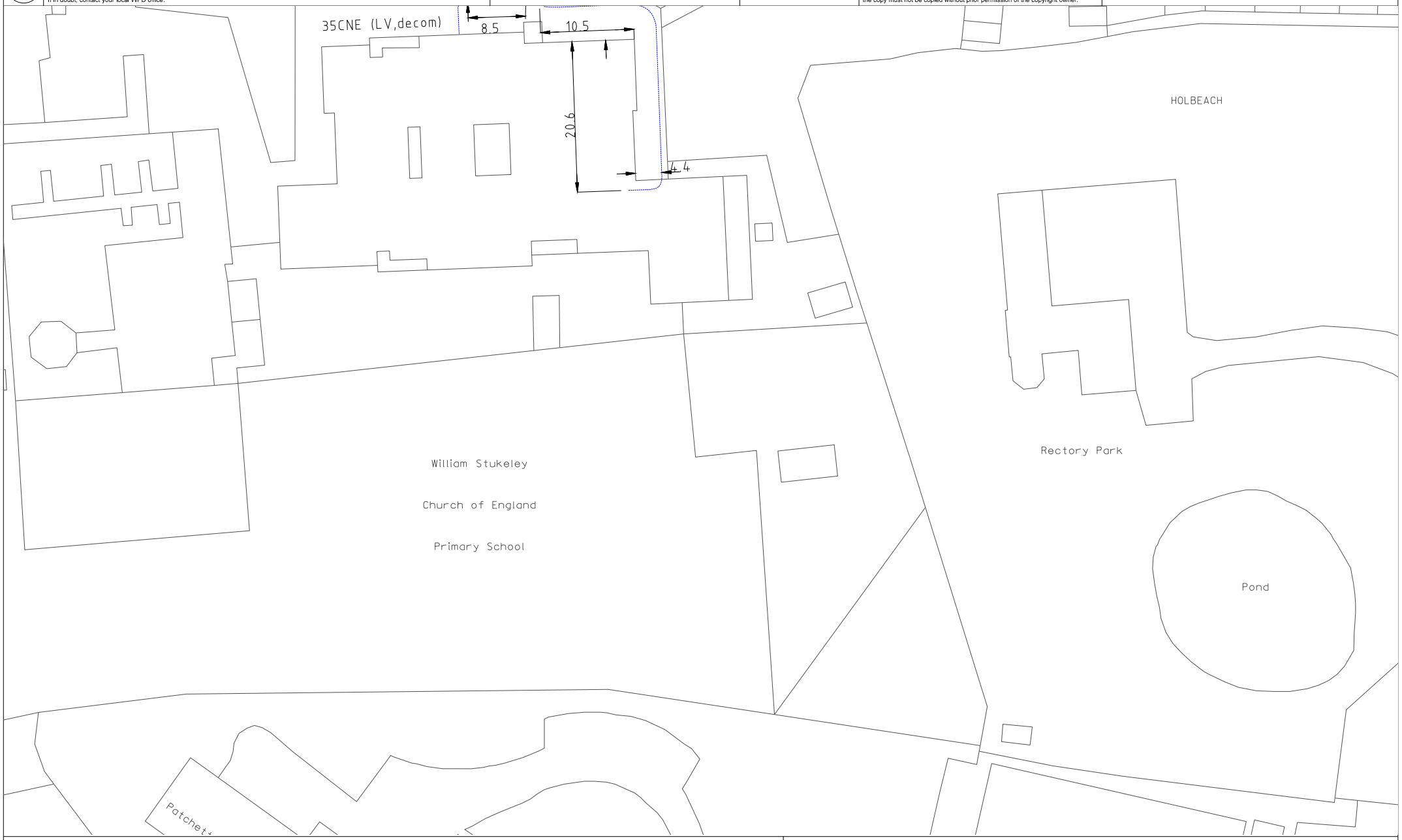
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SURF TELECOMS APPARATUS

PILOT CABLES

OVERHEAD LINE

UNDERGROUND CABLE
PL
SERVICE
LV
HV (11kV)
HV (33kV)
HV (66kV)
HV (132kV)

PME Earth

Underground Earth

Pole Mounted Transformer

Ground Mounted Transformer

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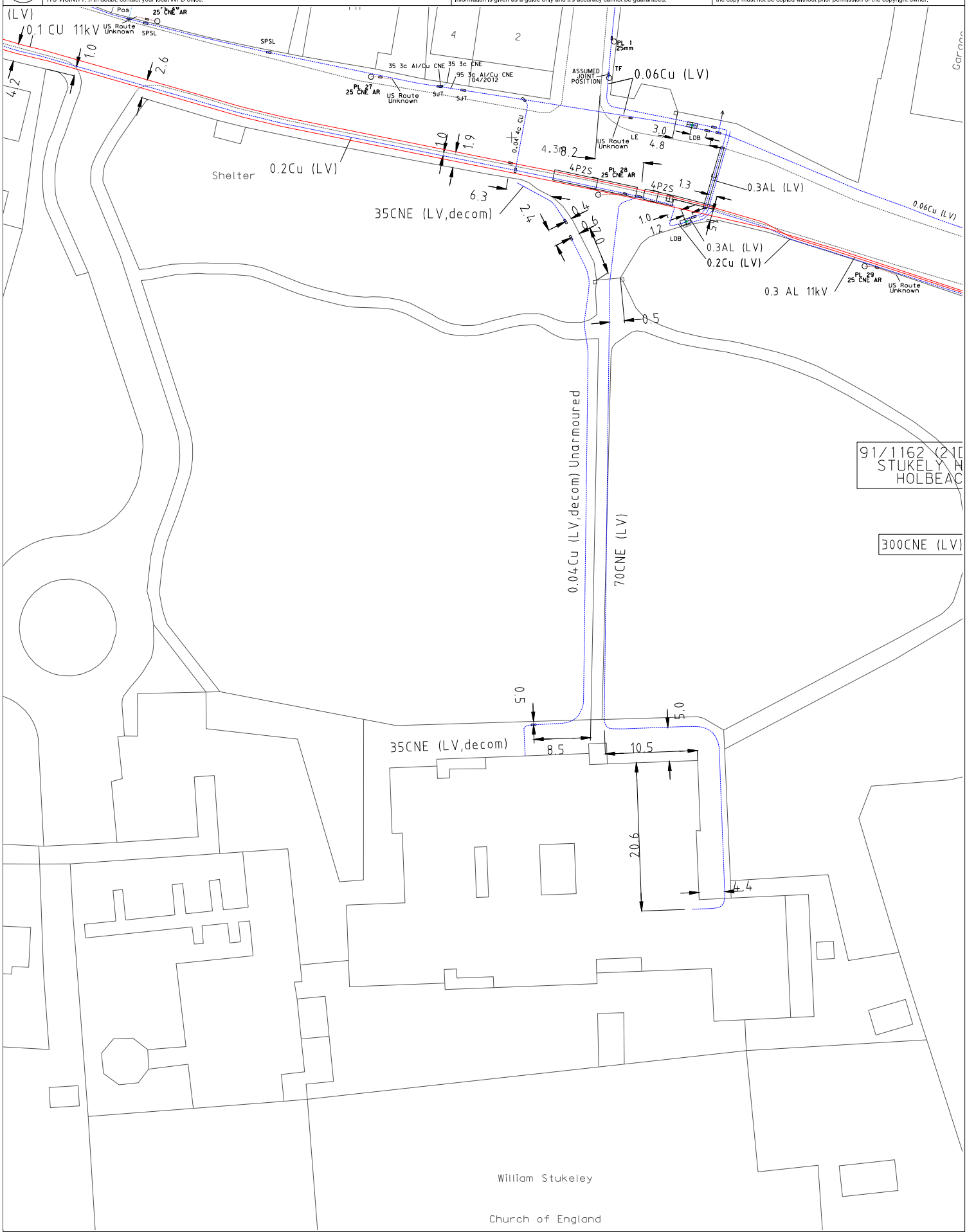
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OVERHEAD LINE / UNDERGROUND CABLE
PL
SERVICE
LV
HV (11kV)
HV (33kV)
HV (66kV)
HV (132kV)
SURF TELECOMS APPARATUS
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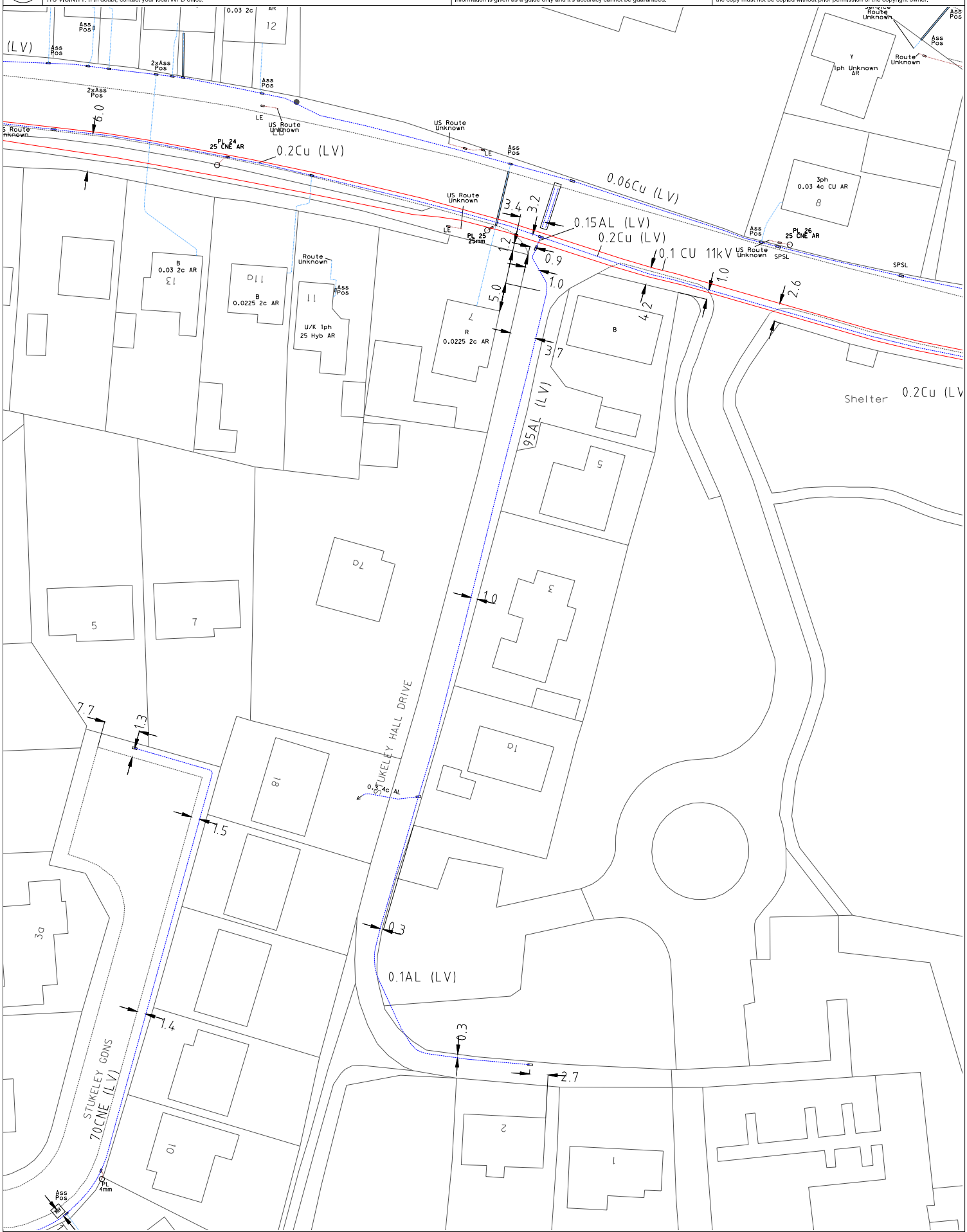
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PILOT CABLES — P — P

OVERHEAD LINE / UNDERGROUND CABLE

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

PME Earth — Pole Mounted Transformer

E — Underground Earth — Ground Mounted Transformer

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LOOK OUT-



LOOK UP!

A Guide to the Safe Use of Mechanical Plant in the Vicinity of Electricity Overhead Lines

WESTERN POWER DISTRIBUTION
Serving the Midlands, South West and Wales

The Safe Use of Mechanical Plant in the Vicinity of Electricity Overhead Lines

Introduction

Every year in the UK on average, two people are killed and many more are injured when mechanical plant and machinery comes into contact or close proximity to overhead electricity lines.

This booklet has been produced for anyone who uses mobile plant, (such as Hiabs, MEWPs, Tipper Lorries and Trailers, Grab Lorries, Concrete Conveyors and Excavators) for short duration work and provides general guidance on how to avoid becoming part of these statistics.



1 BEFORE STARTING WORK

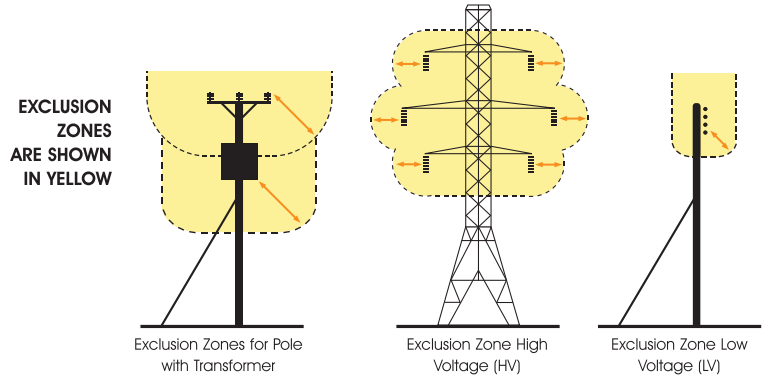
- Overhead lines have the advantage that they can easily be seen, so before you set up your vehicle or plant always:

STOP AND LOOK UP!

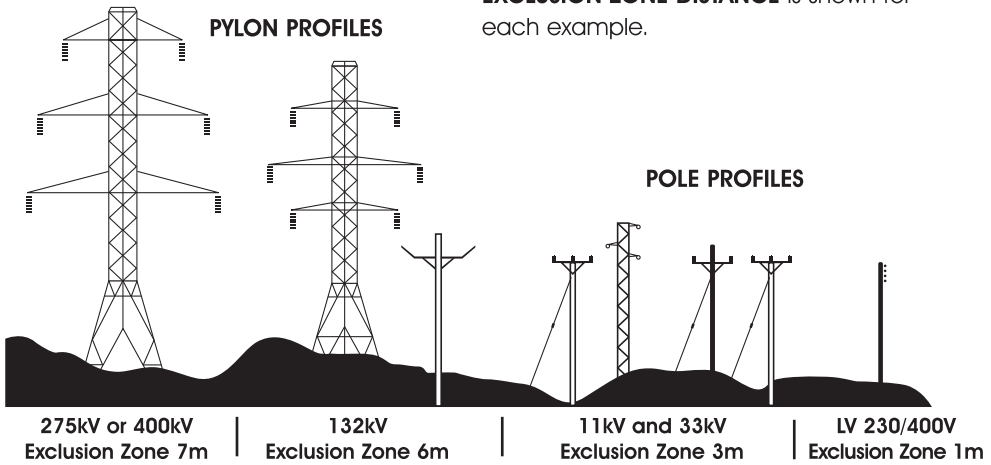
- If you are working at night, or in conditions of poor visibility, you should use spotlights or a torch to carefully check that there are no overhead lines within your vehicle's reach.
- Always assume that our lines are live unless we have informed you otherwise in writing.
- If you are in any doubt about whether the lines in question are power or telephone (this is a very common mistake) – always assume that they are power lines and are live.
- It is not normally practical for electricity companies to shroud high voltage conductors and even when low voltage conductors are shrouded, the shrouding is not designed to protect against contact by mechanical plant – again, always assume the lines are live.

2 EXCLUSION ZONES

- Overhead power lines are not normally insulated and so any contact can result in serious or fatal injuries.
- Electricity at high voltages can also jump gaps with no warning whatsoever, so it is also dangerous to let your plant approach too close to a line.
- The distance that electricity can jump depends on the voltage of the line. The higher the voltage, the further you must stay away from the line and any other equipment that may be fitted to the pole or pylon. This distance is called the **EXCLUSION ZONE.** Examples of this are shown highlighted in the diagram below.



- You must not allow any part of your plant to enter the **EXCLUSION ZONE.**
- The diagram below shows typical types of overhead lines and provides a guide to help you assess the line voltage of lines on wooden poles or steel pylons. The minimum **EXCLUSION ZONE DISTANCE** is shown for each example.

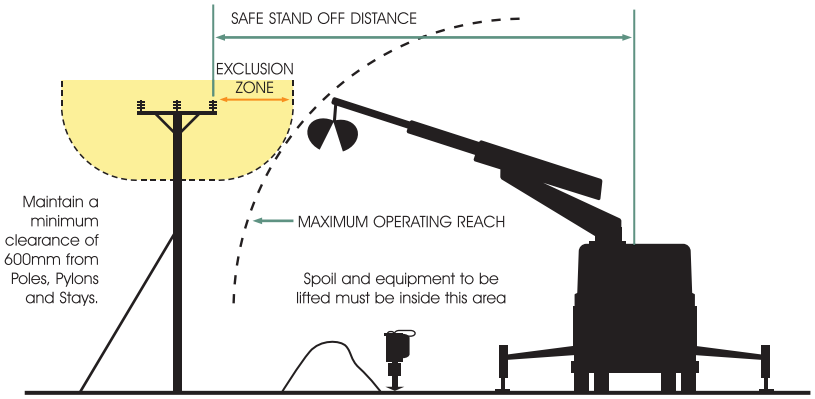


- Please note that these are absolute minimum distances that should under no circumstances be infringed. ***If you do – it could prove fatal.***

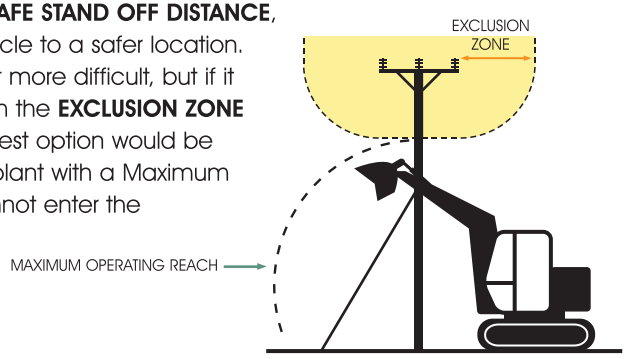
- As well as staying away from the lines or equipment, you should also stay at least 600mm away from any part of poles, pylons and stay wires.
- Please remember that is for guidance only, and if you are in any doubt, please call us for advice before setting up your plant or starting work.

3 STAND OFF DISTANCES

- If there are power lines in the vicinity of your work the best way to make sure you stay out of the **EXCLUSION ZONE** is to position your vehicle at a **SAFE STAND OFF DISTANCE** so that, even when fully extended, no part of it can accidentally reach inside the **EXCLUSION ZONE**.
- This **SAFE STAND OFF DISTANCE** can be calculated by adding the **EXCLUSION ZONE** distance for the appropriate voltage of the line to the Maximum Operating Reach of your vehicle. This is shown in the diagram below.

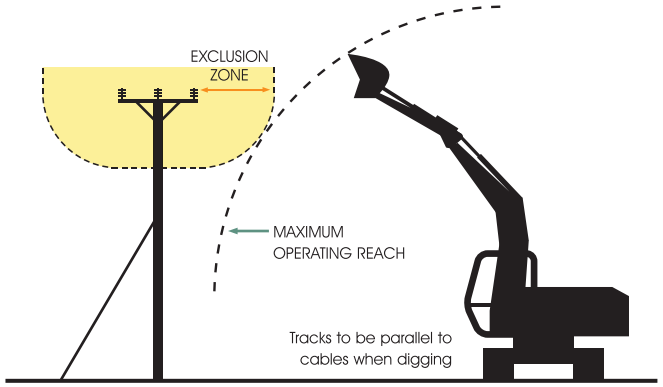


- If you position your vehicle outside of the **SAFE STAND OFF DISTANCE**, there is no risk of accidental contact with the lines and no danger of electricity jumping from the line to your vehicle.
- If you cannot achieve a **SAFE STAND OFF DISTANCE**, consider moving your vehicle to a safer location. It may make your job a bit more difficult, but if it means you stay away from the **EXCLUSION ZONE** - it will be safer. The next best option would be to consider using smaller plant with a Maximum Operating Reach that cannot enter the **EXCLUSION ZONE**.



- You may not be able to achieve either of these options, so, as a last resort, if you cannot avoid operating large items of plant in the vicinity of lines, you **MUST** make sure that the plant is fitted with restraints to ensure that the **EXCLUSION ZONE** cannot be entered. These restraints may be electrical or hydraulic systems fitted to the plant, or mechanical devices such as chains.

  Please seek advice from the plant manufacturer for more information on choices available for your particular item of plant.
- If you are using a mechanical excavator to dig parallel to the line, it is good practice to position the excavator with the tracks or wheels parallel to the line, so as you move along the excavation the **SAFE STAND OFF DISTANCE** is easily maintained.



- Care must also be taken to avoid non-mechanical equipment, (e.g. scaffold poles, ladders and long loads such as lengths of steel or timber) from entering the **EXCLUSION ZONE**.
- Always maintain at least 600mm clearance from your plant to any of our poles, stay wires or pylons. Any contact with these by your plant could cause the line to break and fall to the ground.

4 EMERGENCY PROCEDURES

If contact is made with an overhead line, you must immediately clear the area and suspend all work within 50m of the damage because the line could still be live, or become live again.

The operator of a machine that is in contact with an overhead line should take the following steps:

- **If the machine is still operable:**
  - lower any raised parts that are controlled from the driving position and/or drive the vehicle clear of the line, as long as neither of these actions risk breaking the line or dragging it to the ground.

- **If the machine is not operable or cannot be driven clear of the line:**
  - stay in the cab.
  - contact your site manager or us immediately by radio or mobile phone or as soon as possible by any other method.
  - instruct everyone outside the vehicle not to approach it.
  - do not exit the cab until given confirmation BY WPD PERSONNEL that it is safe to do so.

- **If the machine is inoperable or cannot be driven free and there is risk of fire or other immediate hazard:**
  - jump clear of the vehicle, avoiding simultaneous contact with any part of the machine and the ground.
  - try to land with your feet as close together as possible.
  - where possible, continue to move away from the vehicle using "bunny hops" with your feet together until at least 15m from the vehicle.
  - instruct other people in the vicinity not to approach the vehicle.
  - do not return to the vehicle until given confirmation BY WPD PERSONNEL that it is safe to do so.

Whatever the circumstances please contact us on our emergency number immediately and tell us what has happened.

Please be ready to provide us with a contact telephone number and an accurate location or set of directions – this will help us in getting our staff to site quickly to minimise any danger and to reduce any disruption to your work.

Our emergency number is:

105 or 0800 6783 105

Please report any damage or contact no matter how minor they may seem to you at the time. Whilst the damage may not cause a serious problem at the time of contact it could fail later, causing danger to our staff and members of the public, disruption to our customer's supplies, and – if we trace the damage back to you – a larger repair bill!

5 MORE INFORMATION

- Proximity Warning Systems (such as Wire Watcher – see *wirewatcher.co.uk* for information) may be fitted to your vehicle. Never turn these devices off or disable them in any way.
- Take note of any warnings these proximity warning systems may provide but do not use the presence of such devices as a reason not to follow the advice provided in this leaflet.
- For your information, we are legally obliged to report all contact with our system to the Department of Trade and Industry (DTI), and, if you are an employer, you may be obliged to report incidents involving your staff or contractors to the Health & Safety Executive (HSE). Even if no one is hurt, you could still find yourself being prosecuted for causing a dangerous occurrence.

6 FURTHER READING

For advice related to signing and guarding at longer term work sites please also refer to WPD booklet "Avoidance of Danger from Electricity Overhead Lines and Underground Cables"

More detailed information is also published in the following documents available from the HSE.

GS6 – Avoidance of Danger from Overhead Lines.

HS(G) 47 – Avoiding Danger from Underground Services.

Along with Forestry Industry Safety Accord (FISA) publication **FISA 804 - Electricty at Work: Forestry.**

If you require more site-specific information relating to our equipment at your location please contact us on the relevant **GENERAL ENQUIRIES NUMBER**:

0800 096 3080

FINALLY.... Please, always remember that electricity overhead lines can be very dangerous **– the general rule is *STAY AWAY and STAY SAFE!***

For the Safe Use of Mechanical Plant in the Vicinity of Electricity Overhead Lines ALWAYS FOLLOW THESE SIMPLE RULES – THEY COULD SAVE YOUR LIFE!

- Treat all overhead lines as live and dangerous
- Any contact may be fatal or cause very serious injuries
- Electricity can jump gaps
- Before you set up or use plant near to lines – STOP and LOOK UP
- Take special care and use lights in the dark or poor light conditions
- If there are lines in the vicinity of your work – stay well away
- Set up your plant with care to reduce the chance of contact
- If you are unsure or need advice

  - please ask us before starting work

Our emergency number is: **105 or 0800 6783 105**

You can also call 105 if you spot damage to electricity power lines, poles and substations which could put you or someone else in danger.

If there's a serious immediate risk, you should also call the emergency services.

This booklet is issued by the Safety Team: wpdsafetyhelpline@westernpower.co.uk

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Serving the Midlands, South West and Wales

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BT (Openreach)

Maps by email Plant Information Reply



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

ADVANCE NOTICE REQUIRED
(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

	Planned	Live
PCP		
Pole		
Box		
Manhole		
Cabinet		

Change Of State	+	Hatchings	
Split Coupling	×	Built	
Duct Tee	▲	Planned	
Building		Inferred	
Kiosk	(K)	Duct	

Other proposed plant is shown using dashed lines.
BT Symbols not listed above may be disregarded.
Existing BT Plant may not be recorded.
Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.

	Pending Add	In Place	Pending Remove	Not In Use
Power Cable				
Power Duct				N/A

BT Ref : WZN05334I
Map Reference : (centre) TF3562524780
Easting/Northing : (centre) 535625,324780
Issued : 19/10/2021 17:33:22

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

openreach












Identifying our equipment



If you're planning or building a new development, working on a regeneration project or undertaking roadworks it's likely that you'll come across some of our network infrastructure.

This guide includes images and descriptions of the most common types of equipment (past and present) to help you identify what's on your site so we can best advise you if you need anything moved or removed.

If you're not sure, please contact us – ideally sending a photo of the plant on your site – before you start work.

Poles and attachments



There are currently three materials used for poles: wood, steel and fibreglass.
Wooden poles vary in length from 7 to 15m depending on the span the lines need to cover.

There are two types of pole in use:

- **Radial Distribution Poles:** typically to serve a number of properties in a street
- **Carrier Poles:** typically found in more rural locations, these are often used to provide an overhead route from A to B.

Pole markings



Owner of the pole – In this case BT. Older poles may also be marked as GPO or PO

Pole length and class (light, medium or stout) – 10L = 10m light

Year of preservation – 97

Supplier marker and type of wood – 2I = supplier 2 and Imported (I)



The punch hole sign is a testing cycle sign. This label is for internal Openreach use.

The pole reference number:

Distribution Pole – The letters DP, plus a number, in this case 19.

Carrier Pole – No letters, just a number will be shown.

You may also see square metal labels with a letter on a pole, i.e. C, D, H, SD and Z. These indicate the status of the pole to a visiting engineer.

Street covers and cabinets

Street covers and cabinets (PCP) have changed over the years, from cast iron to fibreglass to pressed steel. Sizes vary and all are made in single door versions. The most common examples are:



Cast iron cabinet



Fibreglass cabinet



Single door cabinet (with replacement steel door)



Steel cabinet



All-in-one cabinet

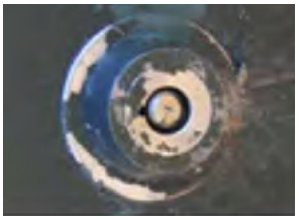
How to spot one of our cabinets: keys and markings

Openreach and Virgin Media both have street cabinets and they look quite similar. Often the only difference is the type of key needed to open them. Openreach cabinets have a triangular or star shaped insert, while Virgin Media use conventional keys (see below).





Openreach keys



Virgin Media key

All Openreach cabinets, frames and covers, are marked to show who owns them. Examples of these markings and the materials cabinets are made of are shown below.



Cast iron GPO marking



Fibreglass Telecom marking



Steel BT marking

Carriageway covers

These boxes generally contain small customer connections. The old type of covers were made of concrete with a concrete lid while current covers are made of fibreglass and have a steel lid.

There are generally two types of carriageway covers. Those with a T-shaped key, the Silent Night, and those with a D-shaped key, the Elkington. Both types were supplied in all sizes and while the design varied slightly all have ownership markings on them.

All sizes are approximate.

Carriageway covers with two triangular lids



CW No.1
Silent Night
680mm x 680mm



CW No.1
old type (Elkington)
inserts vary



Very old round
CW no.1

Carriageway covers with four triangular lids



CW No.2 Silent Night
1220mm x 680mm



CW No.2 old type
(Elkington)

Carriageway covers with six triangular lids



CW No.3 current type



CW No.3 Silent Night type



CW No.3 Elkington type

Footway covers

Footway covers come in six basic sizes: small, medium, large, square, twin and triple, although there are size variants within some types. All sizes are approximate.

Small covers

These lids cover boxes which generally contain small customer connections. Previously the boxes and lids were made of concrete, but the current footway boxes are made of fibreglass and have steel lids.



JB21 31x41cm



JB22 41x61cm



JB23 28x50cm

Medium covers

There is only one size of cover in this category. This lid can be found on a fibreglass preformed box, JB26, as well as a concrete/brick chamber, JF2. As with the JB 23 small footway box above the JB26 will have a thin white edge around the cover while the JF2 has a fillet.



Old style cast iron and concrete 38x80cm



JF2/JB26 34x80cm

Large covers

Along with the twin, this is probably the most common footway type in the network. Originally the covers were made of cast iron and concrete but now they're just made of concrete.



JF4 current type 55x100cm



JF4 old type 55x100cm

Square covers

These covers are placed over manholes and are found in the footways and verges.



JF5 70x70cm



JF5 old type 70x70cm

Twin covers

This cover shown in the section is probably the most common footway type in our network. Originally the cover was made of cast iron and concrete but now they're just made of concrete. You can see variations to the inserts and markings below.



JF6
70x140cm



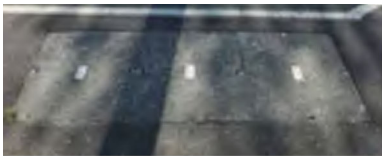
JF6 old cast and concrete type 70x140cm

Triple covers

The two sizes of triple lid covers are shown here.



JF10 80x240cm



JF11 80x140cm

Inserts and markings

In this section you can see examples of the markings that you would expect to find on our equipment.

Footway

Examples of the current JF4 and JF5 inserts are shown below. The number ‘4’ or ‘5’ shown on the right hand side of the insert identifies the type. The letters ‘DW’ shown on the top right hand corner of the JF5 box indicate that this is a drive way lid built to stand further loading.



JF4



JF5

The following examples show the changes undertaken from GPO to BT.



Carriageway

The current marking is shown below, with some of the older versions beneath.

Current marking



Older markings



Non-standard plant

Some locations have used bespoke cover infills which improve the aesthetics of the area, enhance paving designs or accommodate high tactile surfacing. The scope of these type of covers is endless.

Maintenance for these covers may not reside with Openreach as often the responsibility remains with the Authority.

A small selection of non-standard footway and carriageway covers are shown below.



FW No.4



CW No.3 insert type



FW No.6



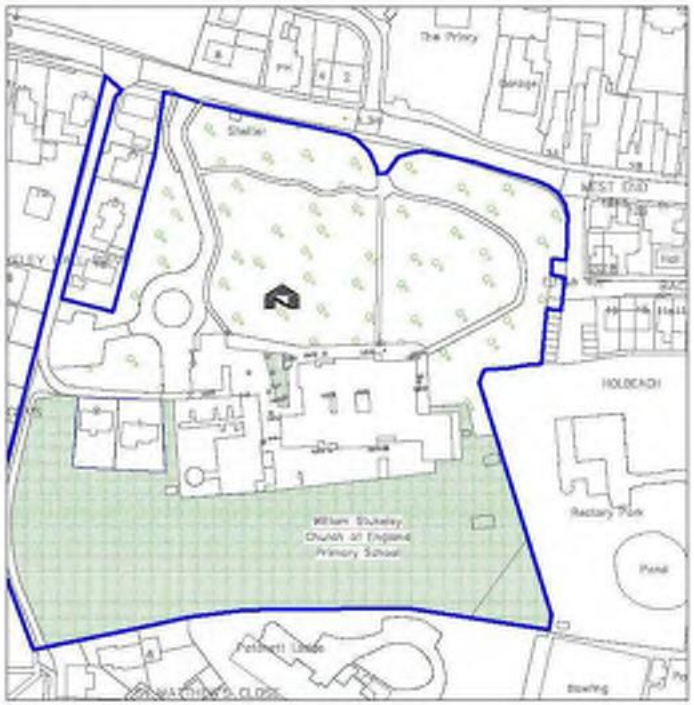
Detail of legend built into frame



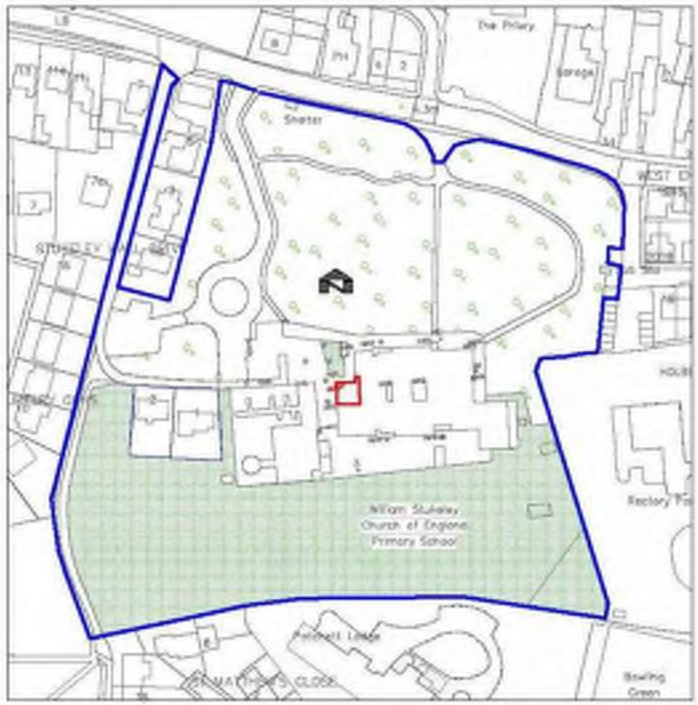
National Telephone Company Limited

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EXISTING SITE PLAN
SCALE 1:1000

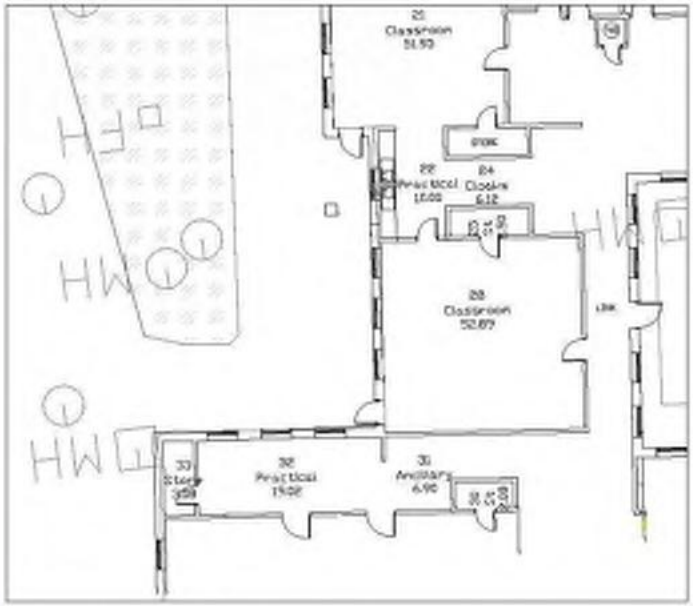


PROPOSED SITE PLAN
SCALE 1:1000



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LOCATION PLAN
SCALE 1:2500



EXISTING FLOOR PLAN
SCALE 1:100



PROPOSED FLOOR PLAN
SCALE 1:100

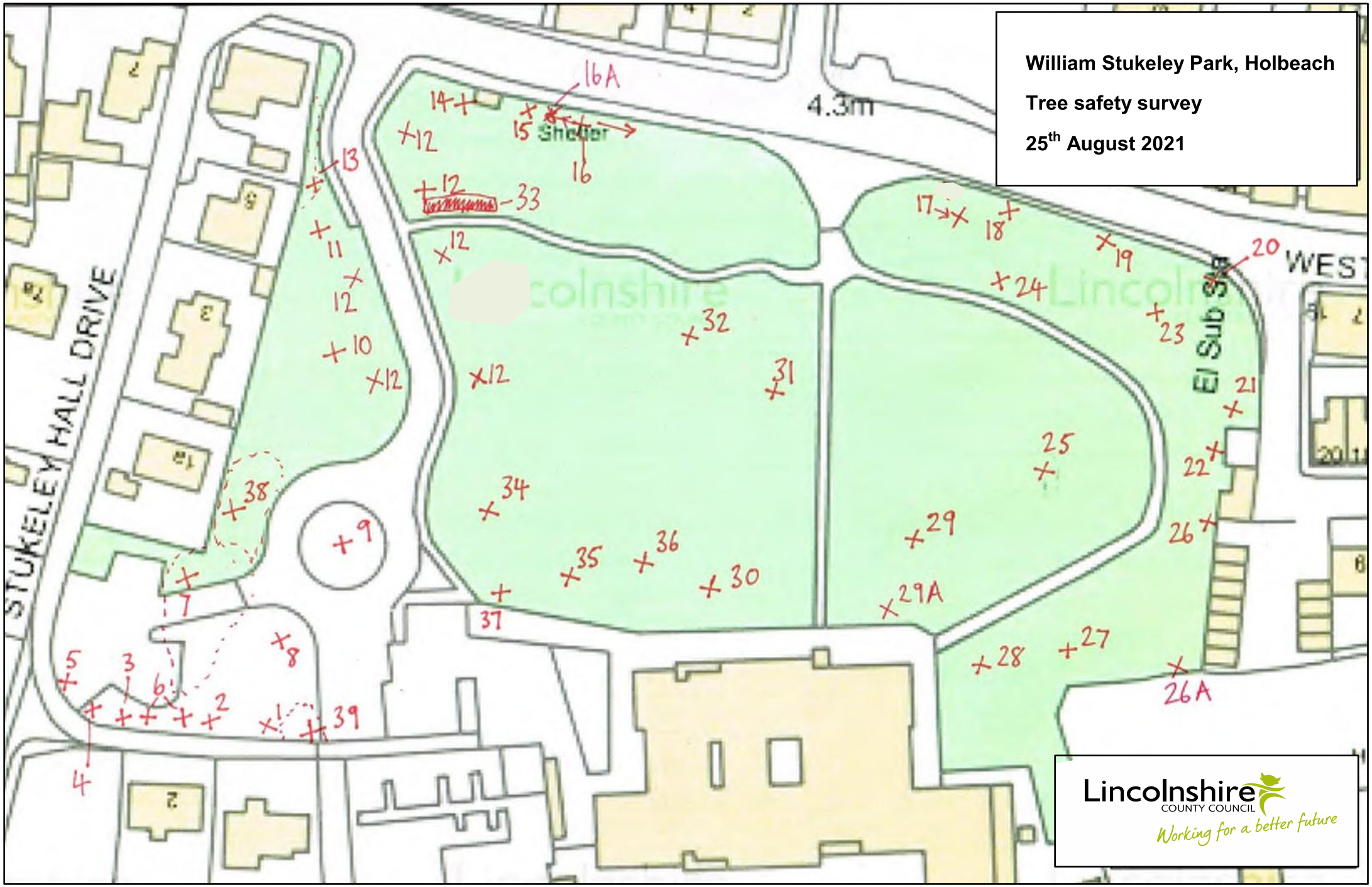
SITE ADDRESS
Holbeach William Stukeley CoE Primary School
Spalding Road
Holbeach
Spalding
PE12 7HG

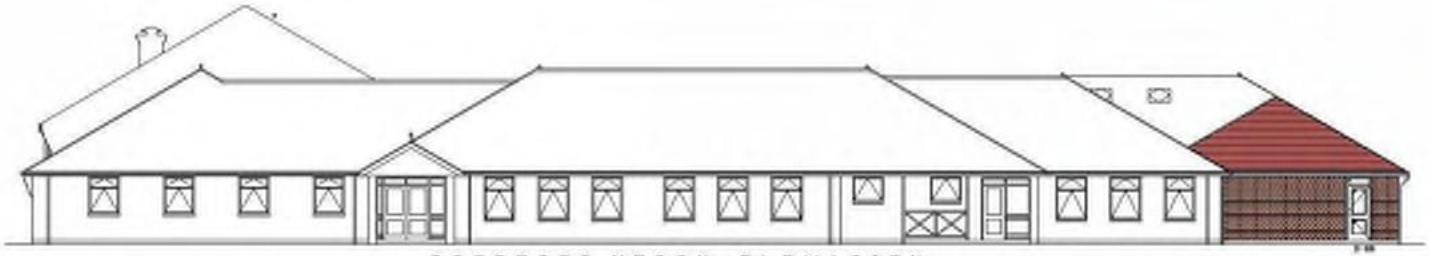
KIER

Lincolnshire County Council

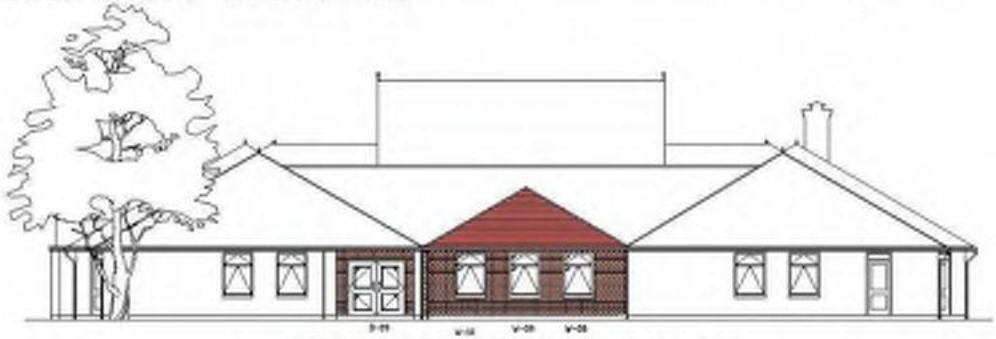
Holbeach William Stukeley Library Conversion and Extension

SITE PLAN
Planning


William Stukeley Park, Holbeach
Tree safety survey
25th August 2021
STUKELEY HALL DRIVE
4.3m
15 Shelter
El Sub Sta
WEST
Lincolnshire
COUNTY COUNCIL
Working for a better future

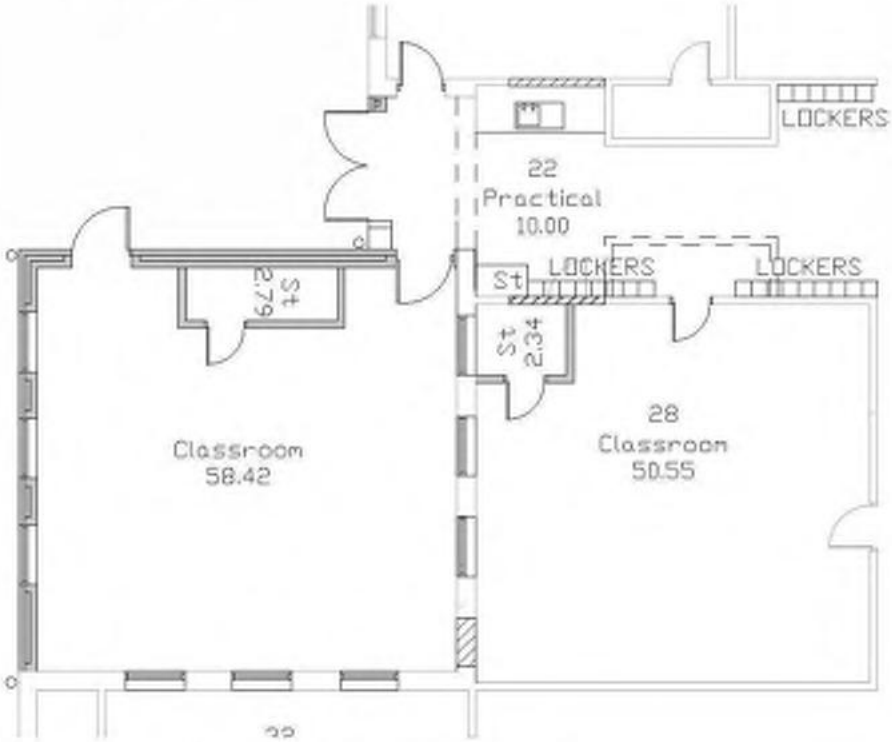


PROPOSED NORTH ELEVATION

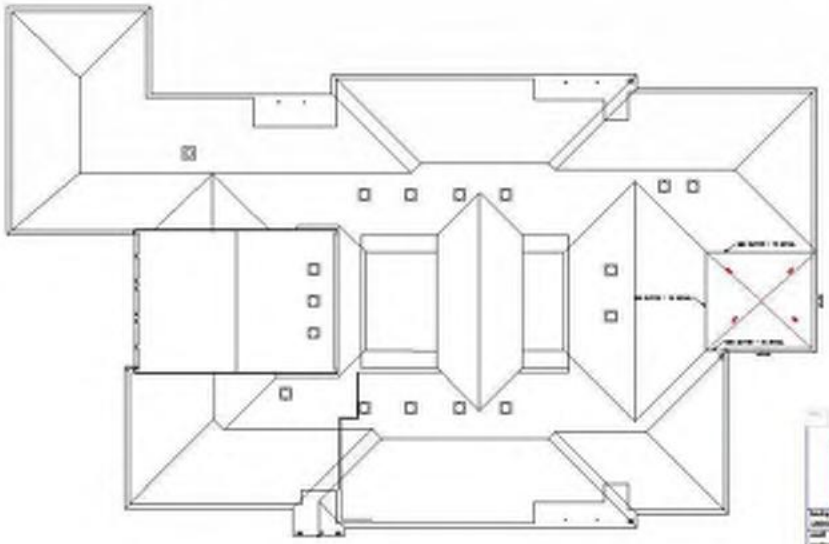


PROPOSED WEST ELEVATION

PROPOSED ELEVATIONS
SCALE 1:100



PROPOSED FLOOR PLAN
SCALE 1:50



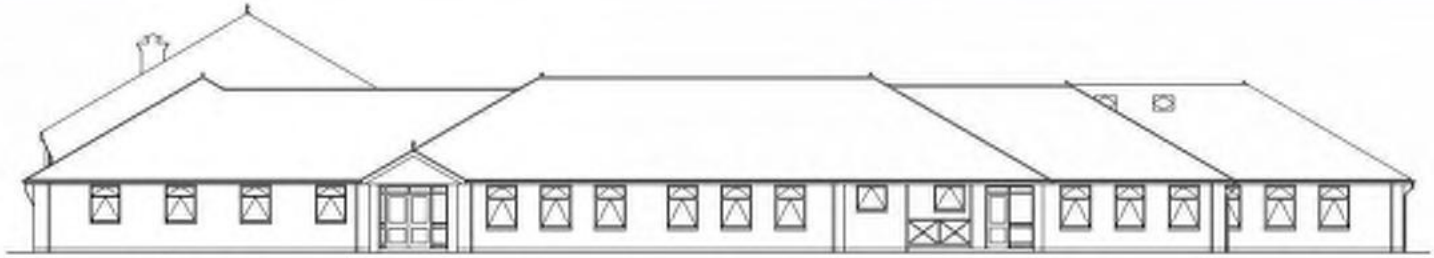
PROPOSED ROOF PLAN
SCALE 1:200

KIER

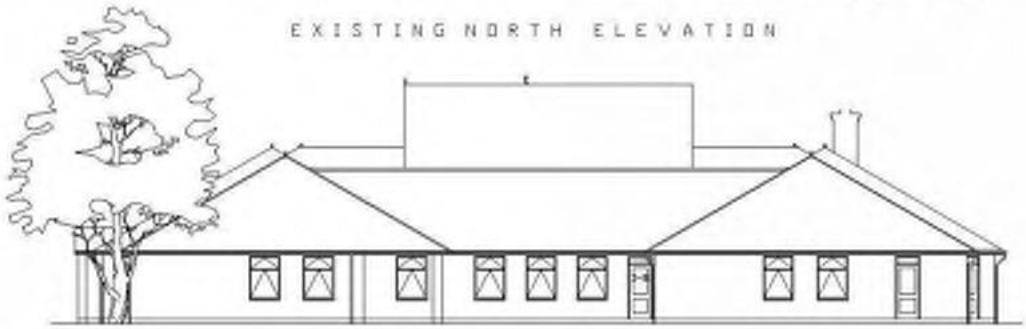
Limavady County Council

Roshesh Hillen Hickley
Library Extension and Alteration

Proposed Plan and Elevations
Planning

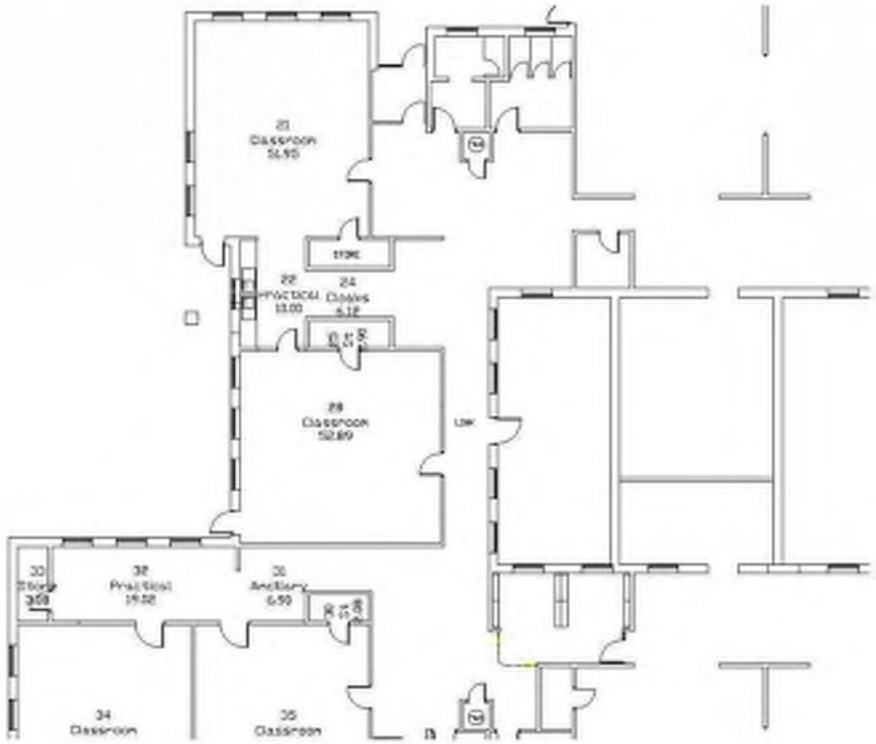


EXISTING NORTH ELEVATION

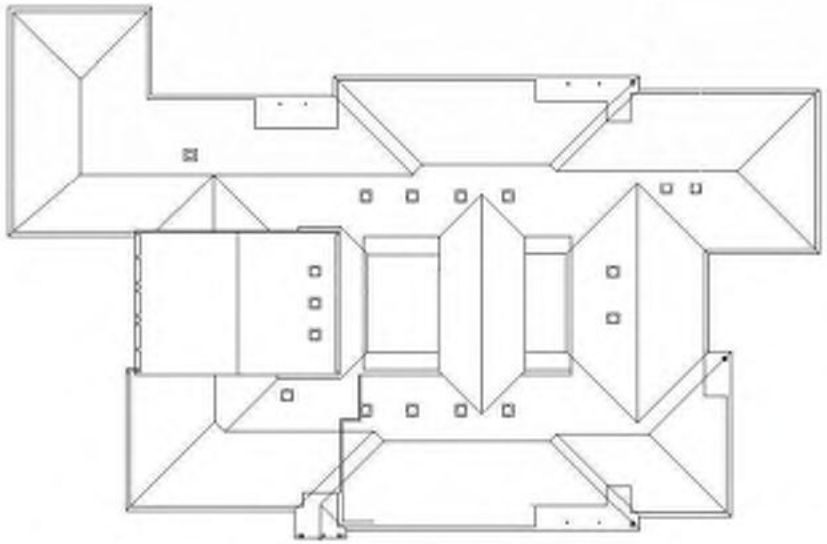


EXISTING WEST ELEVATION

EXISTING ELEVATIONS
SCALE 1:100



EXISTING FLOOR PLAN
SCALE 1:100



EXISTING ROOF PLAN
SCALE 1:200

KIER

Lincolnshire County Council

Holbeach Hillbun Bickdey
Library Demolition and Reinstate

Existing Plan and Elevations
Planning

Rail

The Holbeach William Stukeley C of E School, Spalding – October 2021

Dear Sir/Madam,

With regards to your enquiry, Network Rail does not believe there is any Network Rail owned apparatus or underground services within the area you have defined. As there is always the possibility that new works could be planned and undertaken in this area by Network Rail this information is valid as at today's date and is supplied for general guidance only.

Please be aware that this response is based on Network Rail's records and knowledge and no guarantee can be given regarding accuracy or completeness. CAT scans, safe digging practices (as contained in HSE publications) and other appropriate investigative techniques should always be carried out.

There may be other apparatus or underground services owned or operated by Utility Companies and accordingly you should contact individual utilities for information.

If, in connection with your investigations and/or work, you become aware of Network Rail apparatus or underground services within your area of work, please ensure these are notified to our Asset Protection team via the following link as a matter of urgency so that appropriate measures for avoidance of risk and damage can be put in place.

Contact details can be found in the following link: Network Rail Asset Protection Teams

If you require any further clarification on any of the information please contact opburiedservicesenquiries@networkrail.co.uk.

Regards,

Gareth Milne

Distribution Administrator

Worksite Survey | Asset Information Services
National Records Centre | Audax Road | York YO30 4US
T: 01904 386353 | **E:** gareth.milne@networkrail.co.uk
W: www.networkrail.co.uk

Environment

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Environment Agency

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Contact: enquiries@environment-agency.gov.uk 03708 506506

The Holbeach William Stukeley C of E School, Spalding – October 2021

Dear Customer

You may need an environmental permit if you intend to carry out work in, under, over or near to a main river flood or sea defence. You can find more information about this at:

https://www.gov.uk/guidance/flood-risk-activities-environmental-permits

Although the Environment Agency is classed as a statutory undertaker for certain purposes, we do not generally have plant equipment or pipelines situated in the public highway.

We have drafted this reply without conducting a specific search of our records. We ask that you make the necessary checks and if you have reason to think that your proposal will affect land or equipment which we own or is close to a watercourse as defined above, please resubmit your enquiry making this clear in your reply.

Kind regards

Liam Morris

Environment Agency

Flood map for planning

Your reference	Location (easting/northing)	Created
Holbeach	**535625/324780**	**20 Oct 2021 11:45**

Your selected location is in flood zone 2, an area with a medium probability of flooding.

This means:

- you must complete a flood risk assessment for development in this area
- you should follow the Environment Agency's standing advice for carrying out a flood risk assessment (see www.gov.uk/guidance/flood-risk-assessment-standing-advice)

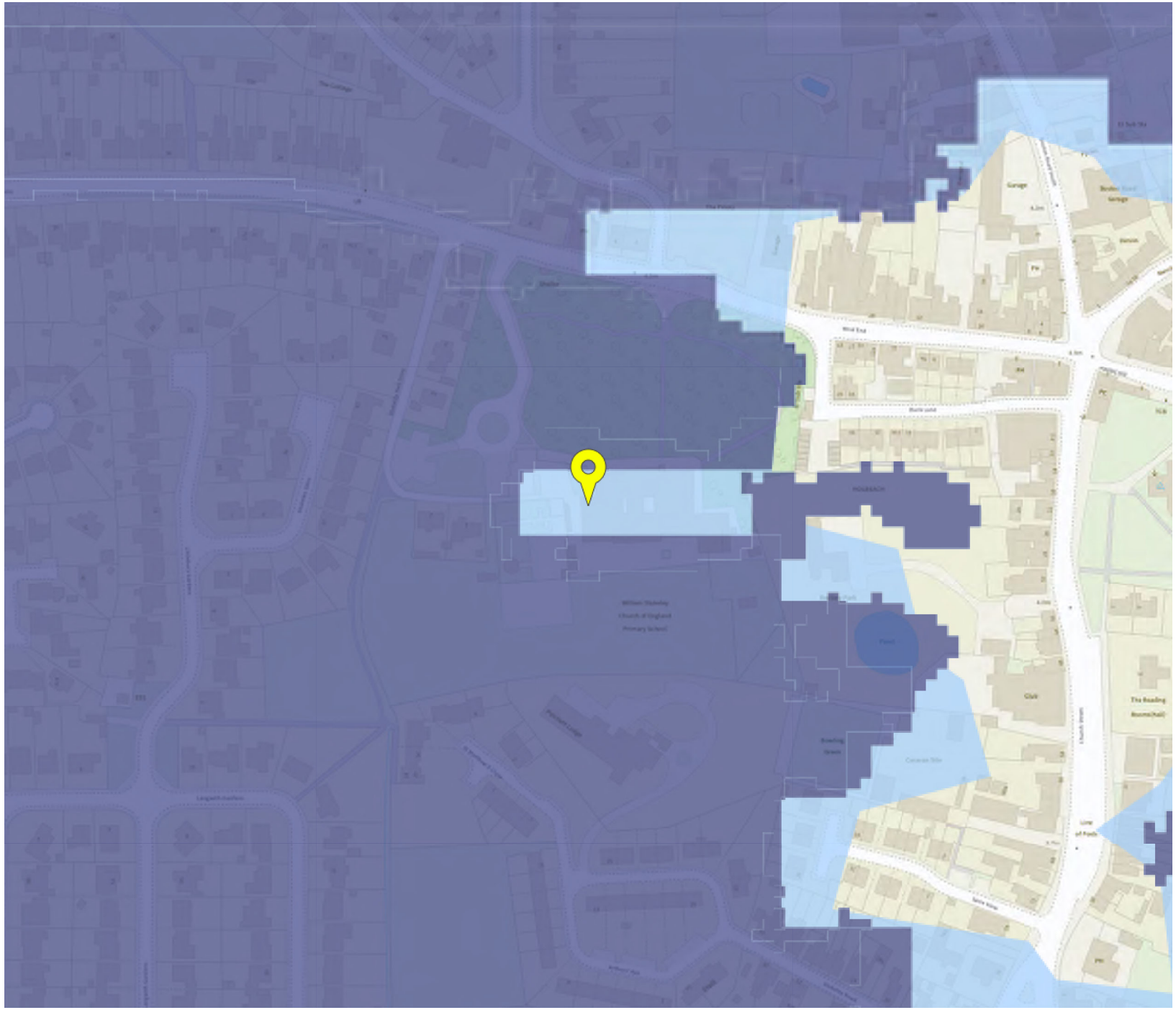
Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

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Holbeach

535625/324780

1:2500

20 Oct 2021 11:45

0 20 40 60m

UNEXPLODED BOMB RISK MAP

zeticauxo

SITE LOCATION

Location: PE12 7HG,
Map Centre: 535453,324904



LEGEND

- **High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- **Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- **Low:** Areas indicated as having 15 bombs per 1000acre or less.

miltary	**industry**	**UXO find**
transport	**dock**	**Luftwaffe targets**
utilities	**Bombing decoy**	**other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

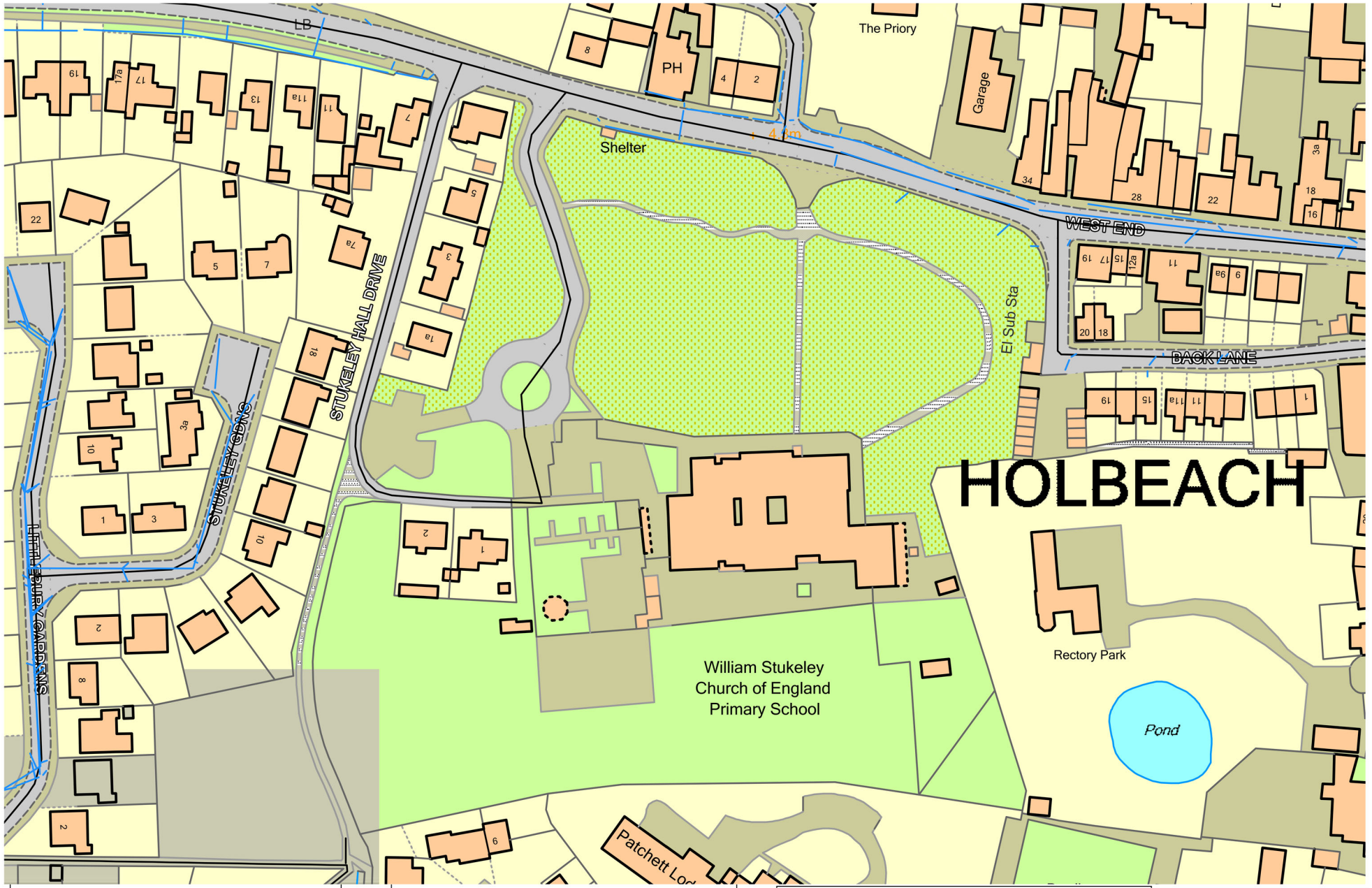
The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: **(https://zeticauxo.com/downloads-and-resources/risk-maps/)**

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It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Highways



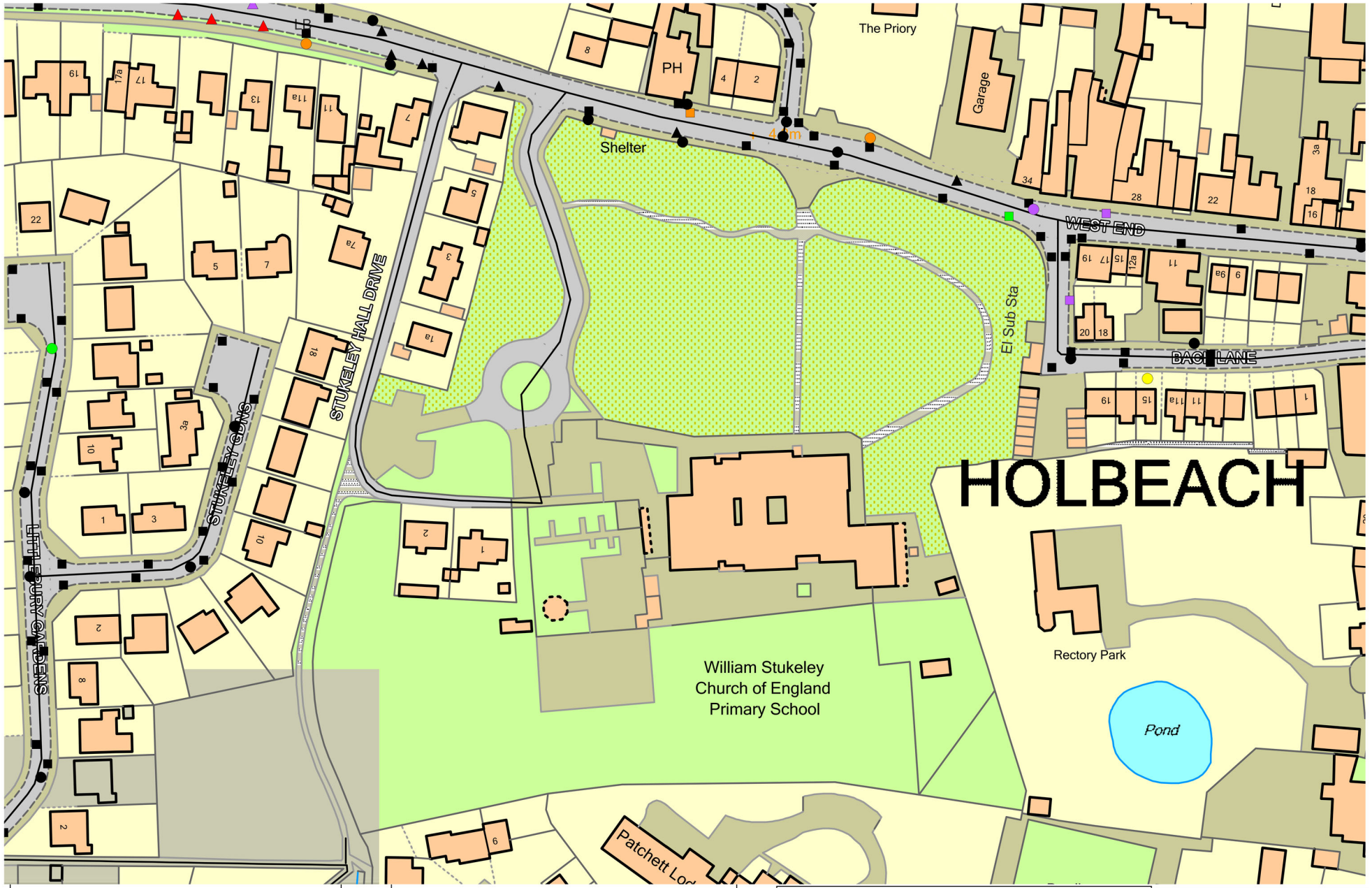
LincoInshire
COUNTY COUNCIL
Working for a better futu

Place Directorate

Director:
Andy Gutherson
Lancaster House, 36
Orchard Street
Lincoln, LN1 1XX

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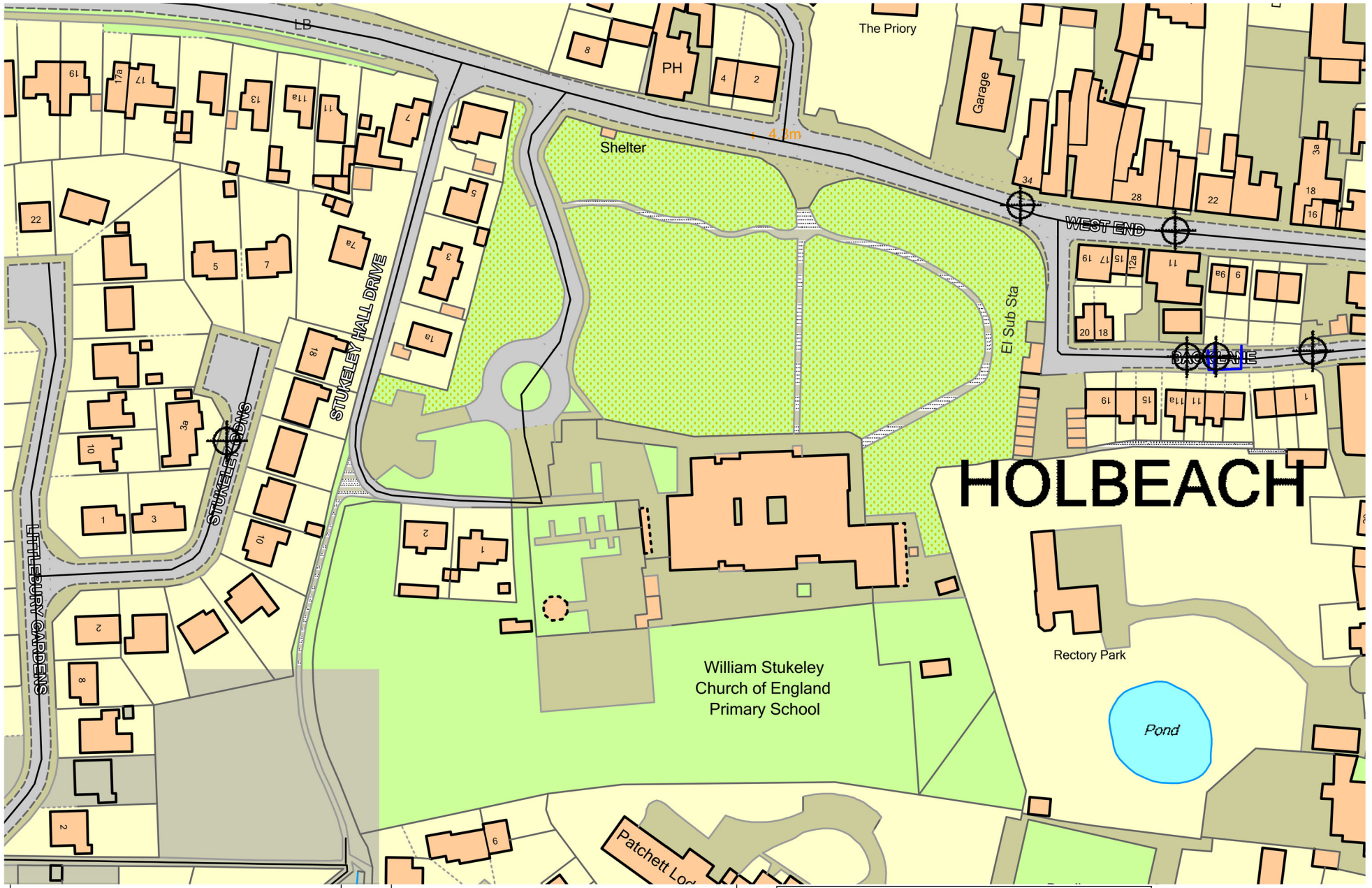
Lincolnshire COUNTY COUNCIL
Working for a better futu

Place Directorate

Director:
Andy Gutherson
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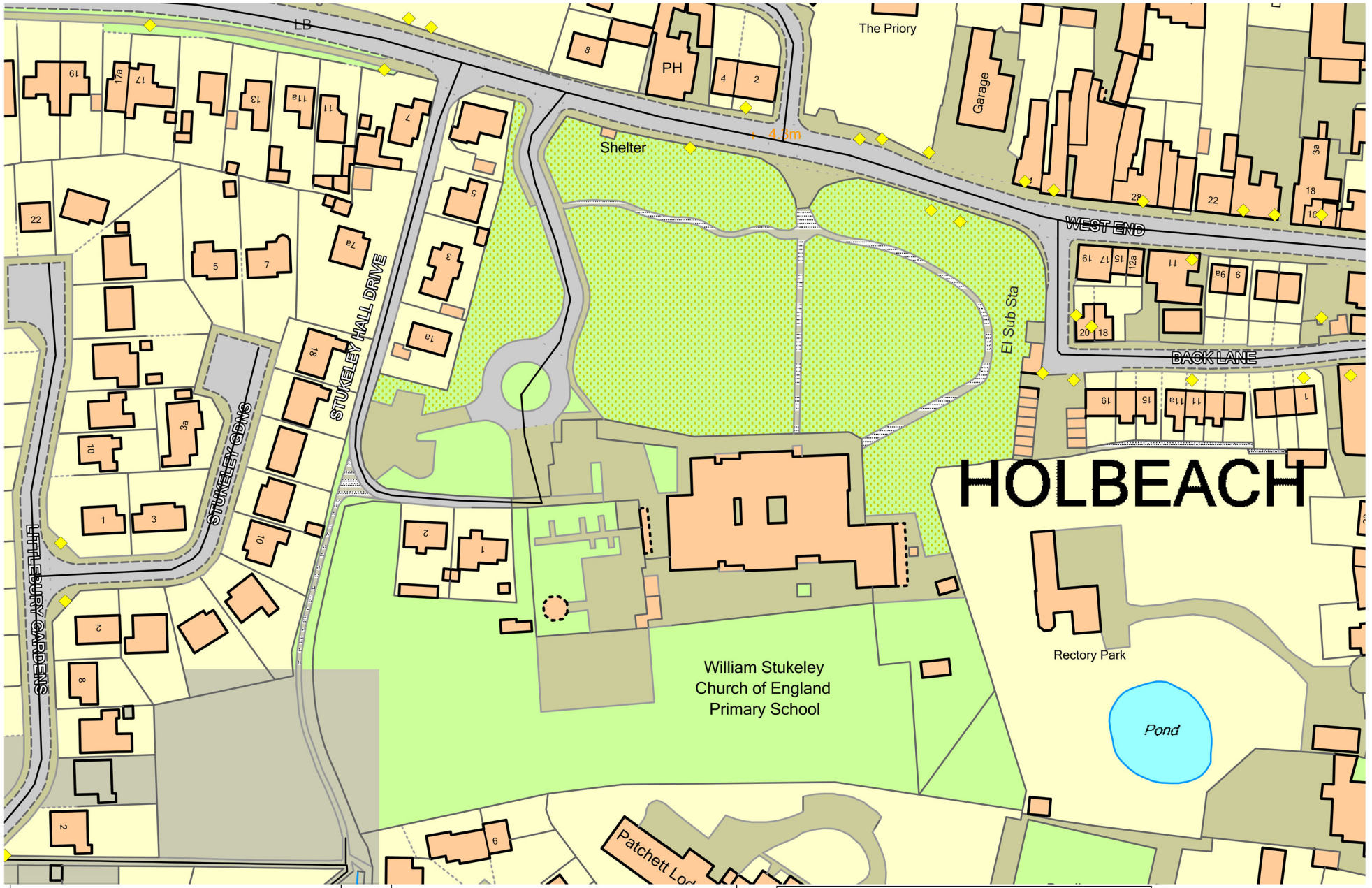
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Place Directorate

Director:
Andy Gutherson
Lancaster House, 36
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Lincoln, LN1 1XX

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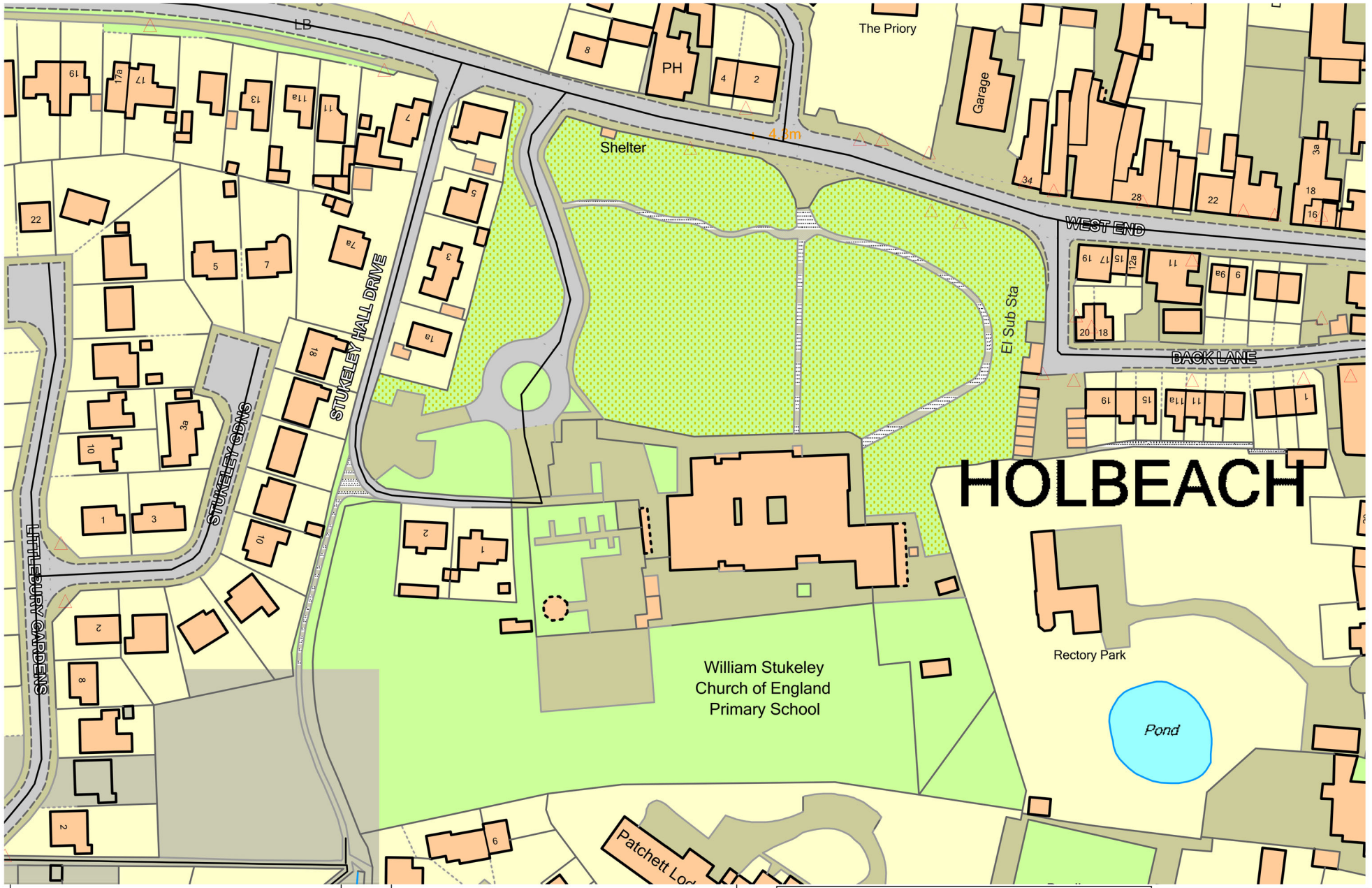
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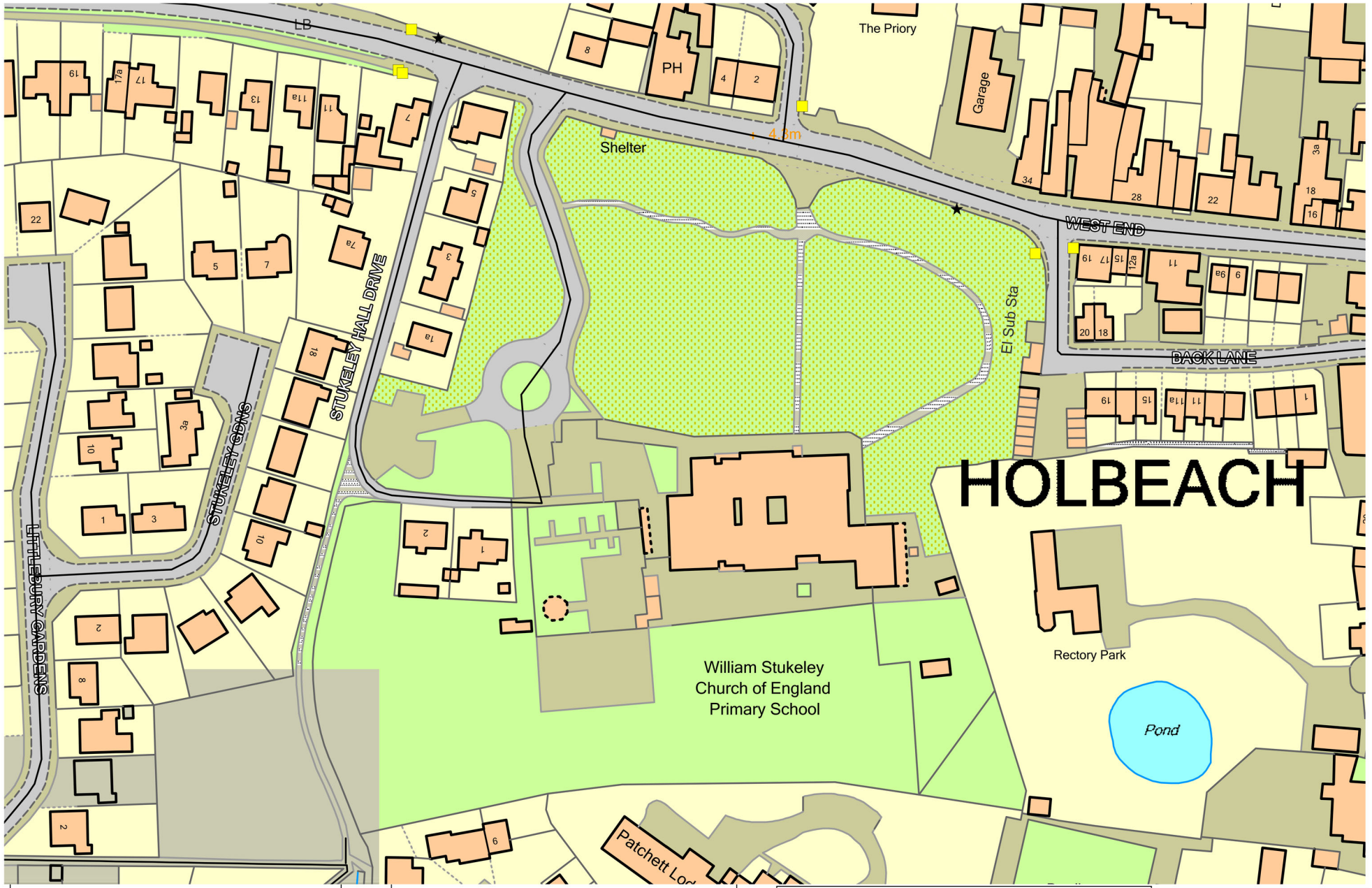
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Lincolnshire COUNTY COUNCIL

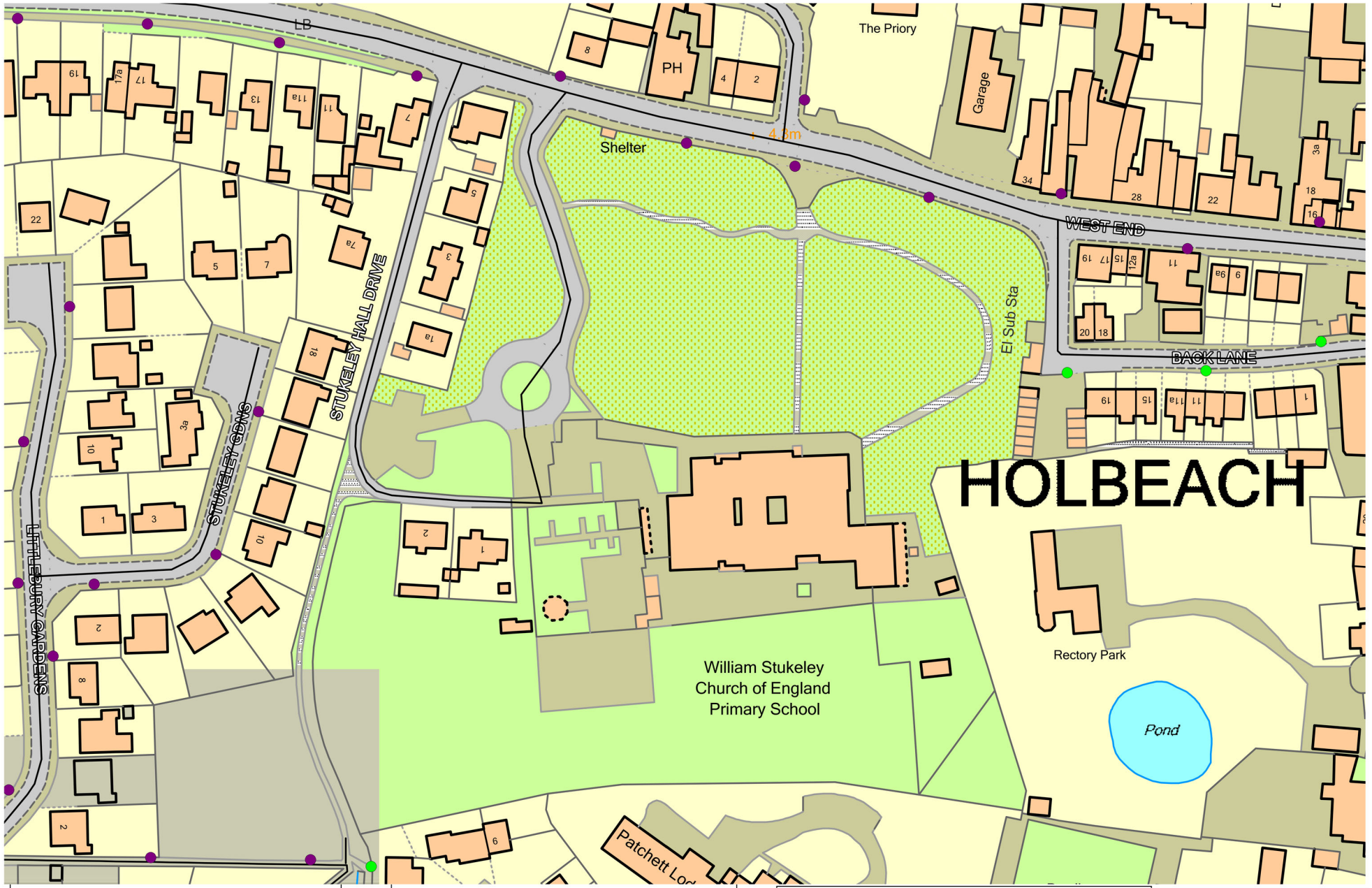
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SL LIT SIGNS



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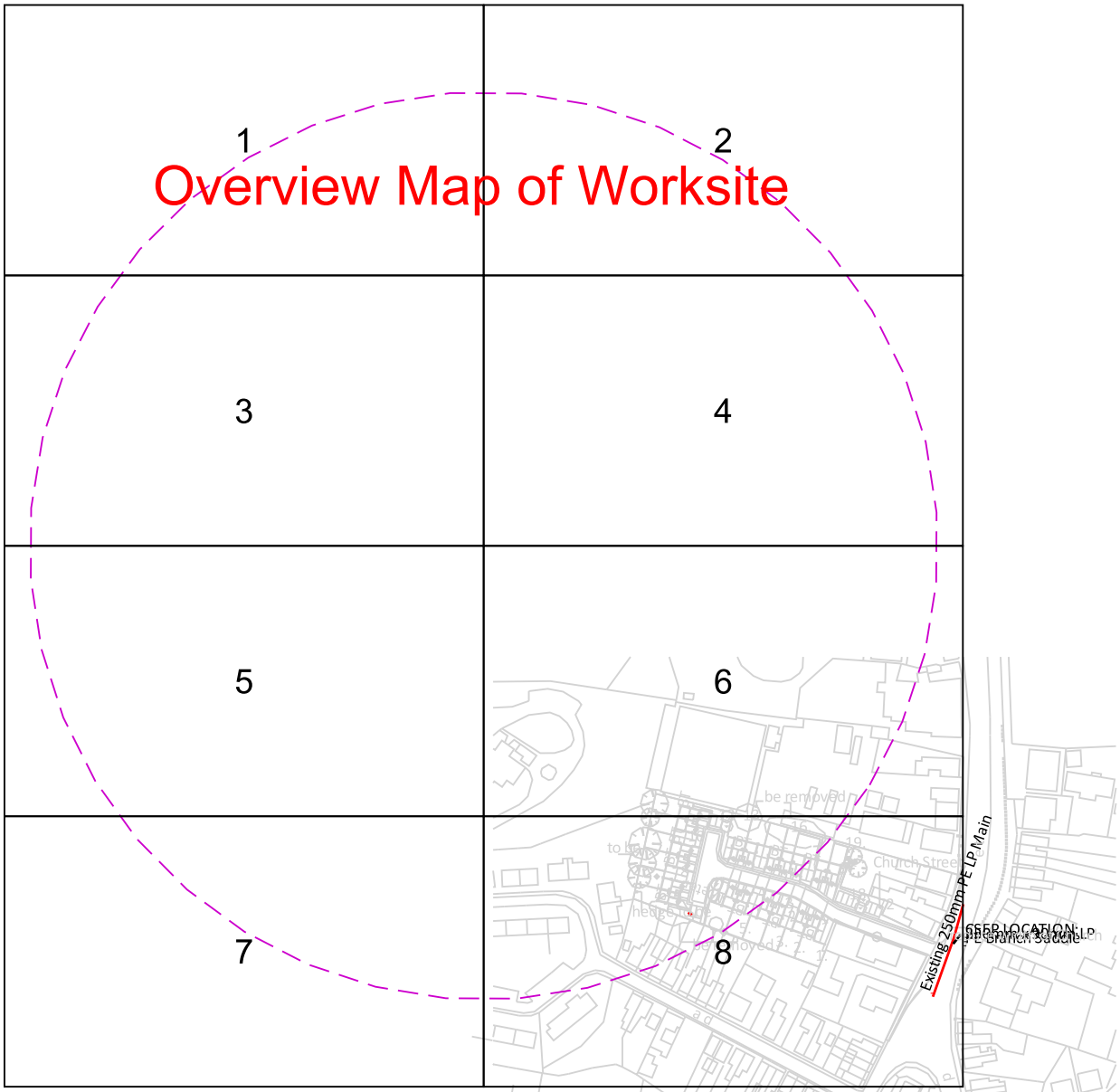
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SL STREET LIGHT UNITS

Communications (Affected)

Overview Map of Worksite



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IMPORTANT INFO

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GAS KEY

PROPOSED LP SERVICE	PIPE TO BE DECOMMISIONED
INSTALLED LP SERVICE	DIAMETER CHANGE
PROPOSED MP SERVICE	CAP END
PROPOSED LP MAINS	VALVE
INSTALLED LP MAINS	GAS METERBOX/KIOSK
PROPOSED MP MAINS	GAS RISER
PROPOSED IP MAINS	GAS METER
EXISTING/AS LAID LP SERVICE	CATHODIC PROTECTION
EXISTING/AS LAID MP SERVICE	PRESSURE REDUCTION INSTALLATION (P.R.I)
EXISTING/AS LAID LP MAINS	MEDIUM PRESSURE SERVICE EXCESS FLOW VALVE
EXISTING/AS LAID MP MAINS	PRESSURE PROTECTION
INSTALLED MP MAINS	RIDER PURGE POINT
EXISTING/AS LAID IP MAINS	PLOTS WITH CONNECTIONS OFF OTHER GT/EXISTING GAS NETWORKS
EXISTING HP MAINS	
DECOMMISIONED PIPE	

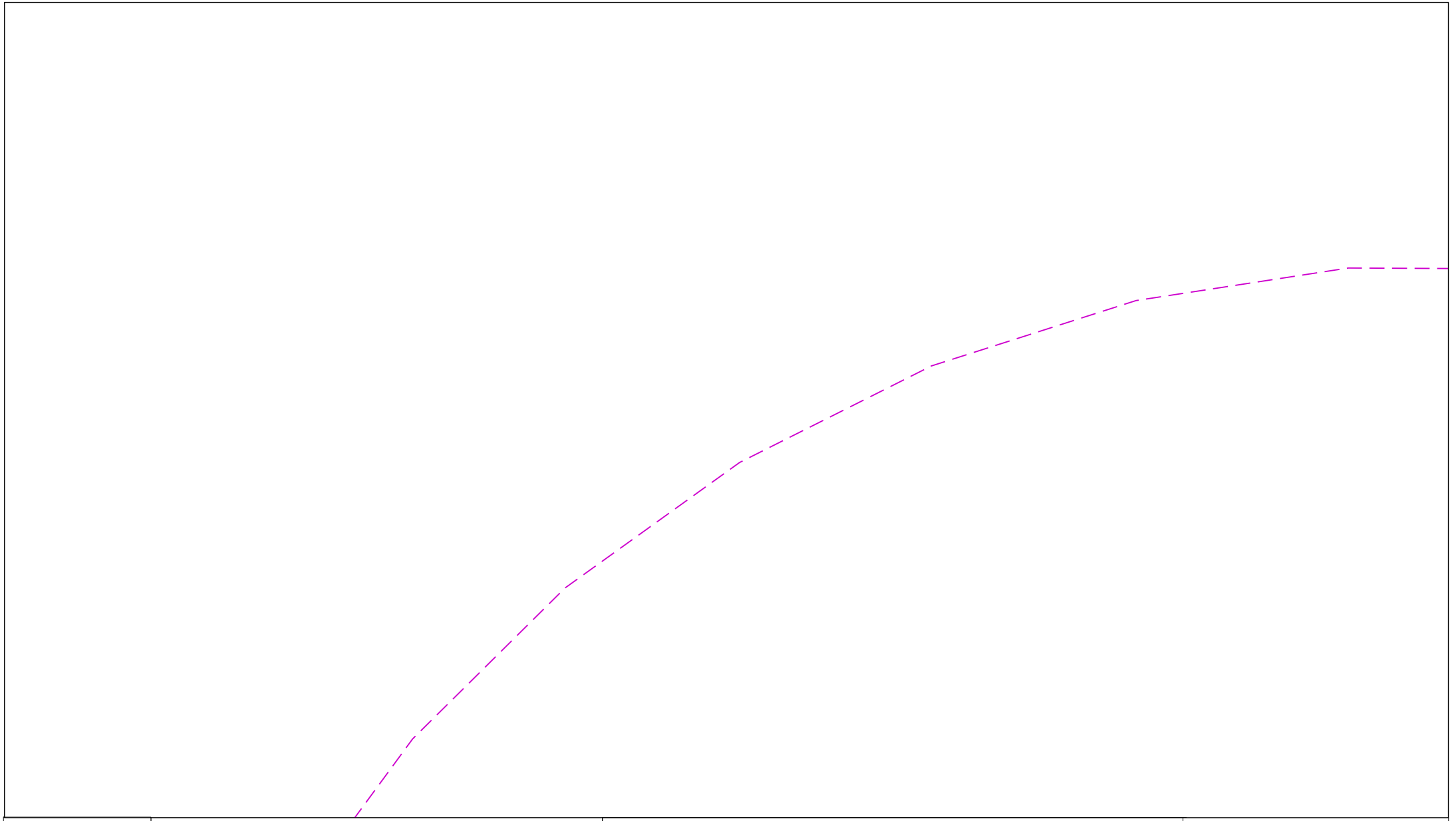
Dig Sites

Area:

Line:

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Fenick House, Lister Way
Hamilton International Technology Park
Glasgow G72 0FT
Telephone 03300 587 443

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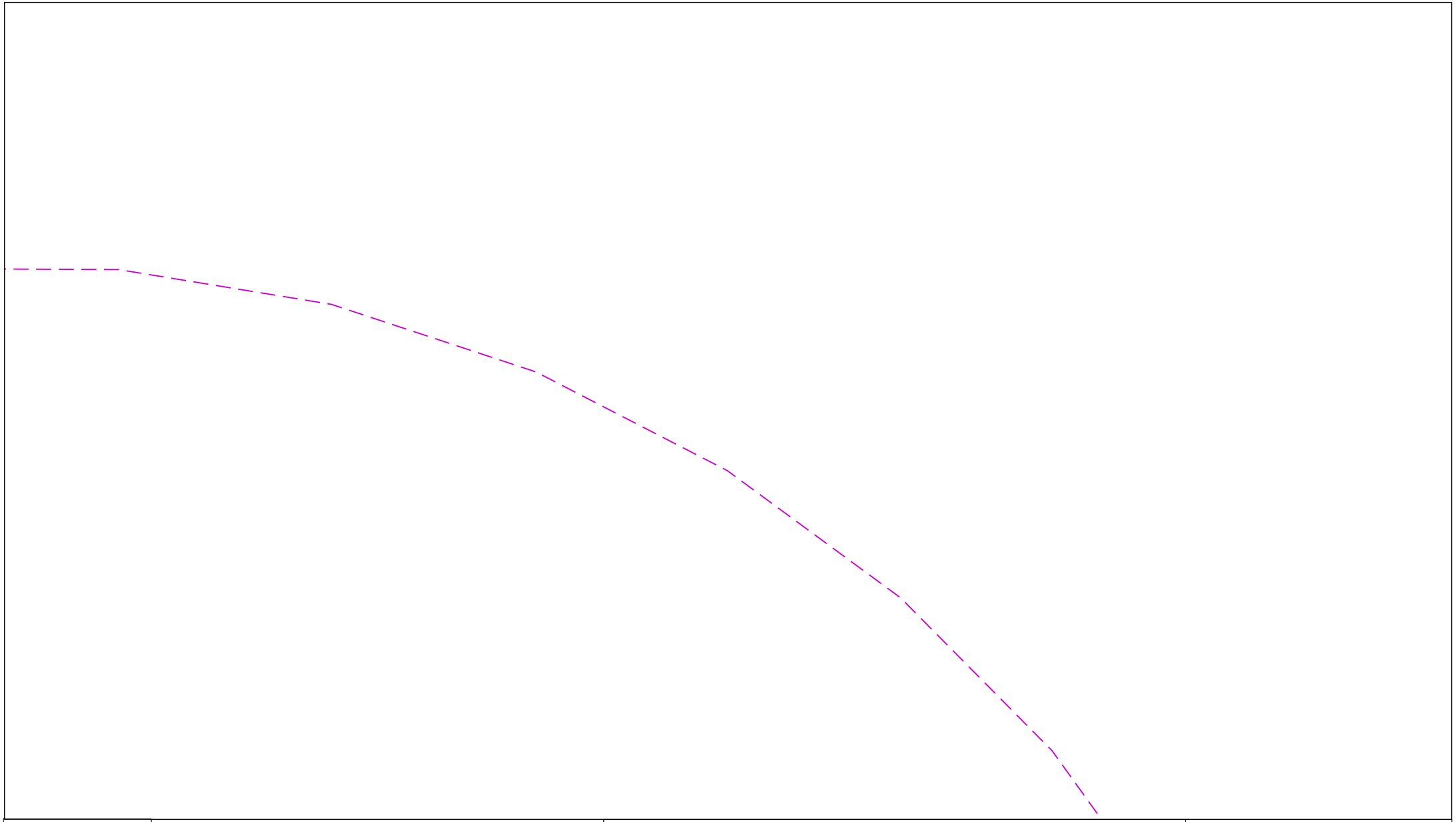
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Dig Sites

Area:

Line:

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Date Requested: 19/10/2021
Job Reference: 23613136
Site Location: 535257 324475
Requested by:
Mr Paul Hodgson

Your Scheme/Reference: william stukeley school

Scale: 1:500 (When plotted at A3)

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- INSTALLED LP SERVICE
- PROPOSED MP SERVICE
- PROPOSED LP MAINS
- INSTALLED LP MAINS
- PROPOSED MP MAINS
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- EXISTING/AS LAID LP SERVICE
- EXISTING/AS LAID MP SERVICE
- EXISTING/AS LAID LP MAINS
- EXISTING/AS LAID MP MAINS
- INSTALLED MP MAINS
- EXISTING/AS LAID IP MAINS
- EXISTING HP MAINS
- DECOMMISIONED PIPE
- PIPE TO BE DECOMMISIONED
- DIAMETER CHANGE
- CAP END
- VALVE
- GAS METERBOX/KIOSK
- GAS RISER
- GAS METER
- CATHODIC PROTECTION
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- PRESSURE PROTECTION
- RIDER PURGE POINT
- PLOTS WITH CONNECTIONS OFF OTHER GT/EXISTING GAS NETWORKS

100m

Dig Sites

Area:

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GAS KEY

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- INSTALLED LP SERVICE
- PROPOSED MP SERVICE
- PROPOSED LP MAINS
- INSTALLED LP MAINS
- PROPOSED MP MAINS
- PROPOSED IP MAINS
- EXISTING/AS LAID LP SERVICE
- EXISTING/AS LAID MP SERVICE
- EXISTING/AS LAID LP MAINS
- EXISTING/AS LAID MP MAINS
- INSTALLED MP MAINS
- EXISTING/AS LAID IP MAINS
- EXISTING HP MAINS
- DECOMMISIONED PIPE
- PIPE TO BE DECOMMISIONED
- DIAMETER CHANGE
- CAP END
- VALVE
- GAS METERBOX/KIOSK
- GAS RISER
- GAS METER
- CATHODIC PROTECTION
- PRESSURE REDUCTION INSTALLATION (P.R.I)
- MEDIUM PRESSURE SERVICE EXCESS FLOW VALVE
- PRESSURE PROTECTION
- RIDER PURGE POINT
- PLOTS WITH CONNECTIONS OFF OTHER GT/EXISTING GAS NETWORKS

Dig Sites

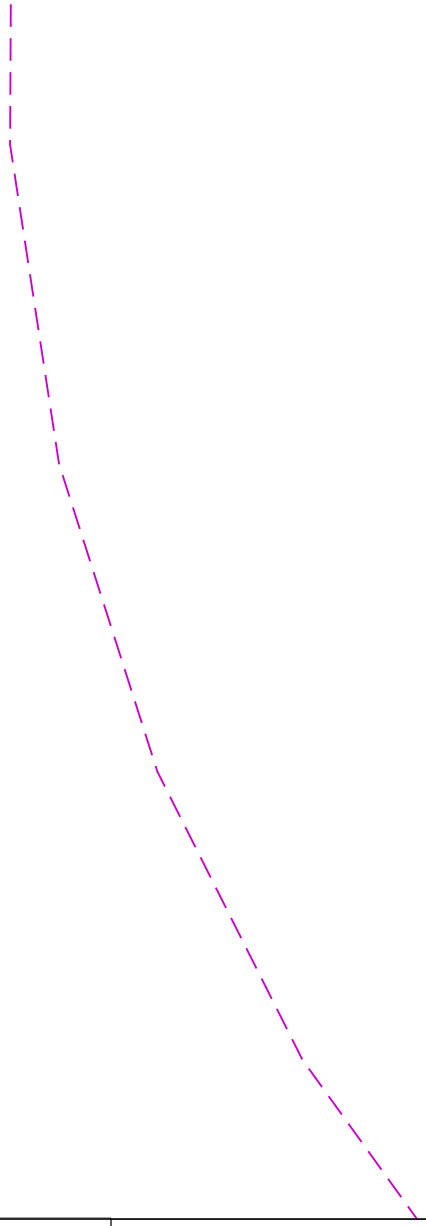
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INSTALLED LP SERVICE	DIAMETER CHANGE
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EXISTING HP MAINS	
DECOMMISIONED PIPE	

Dig Sites

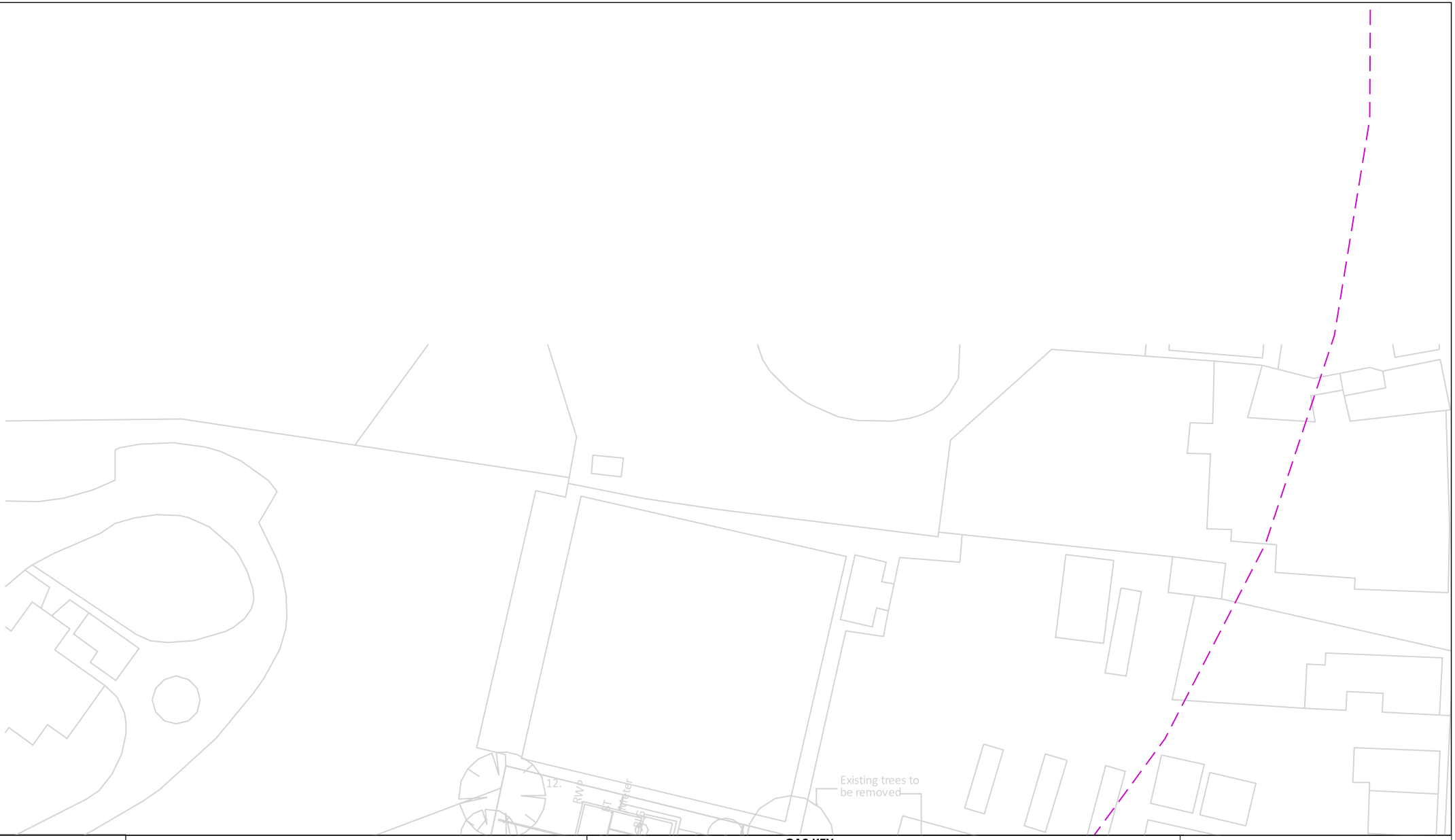
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DECOMMISIONED PIPE	

Dig Sites

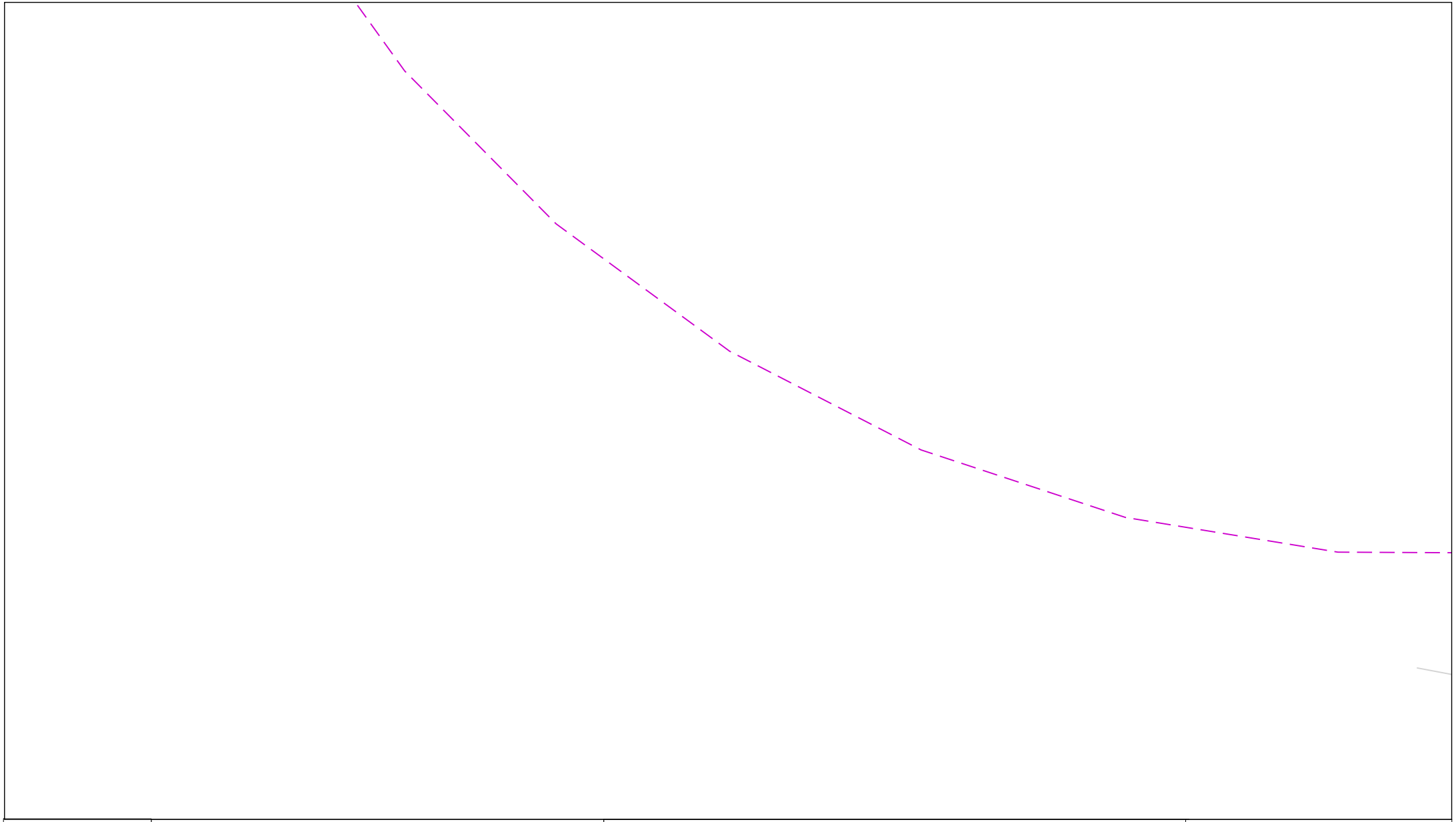
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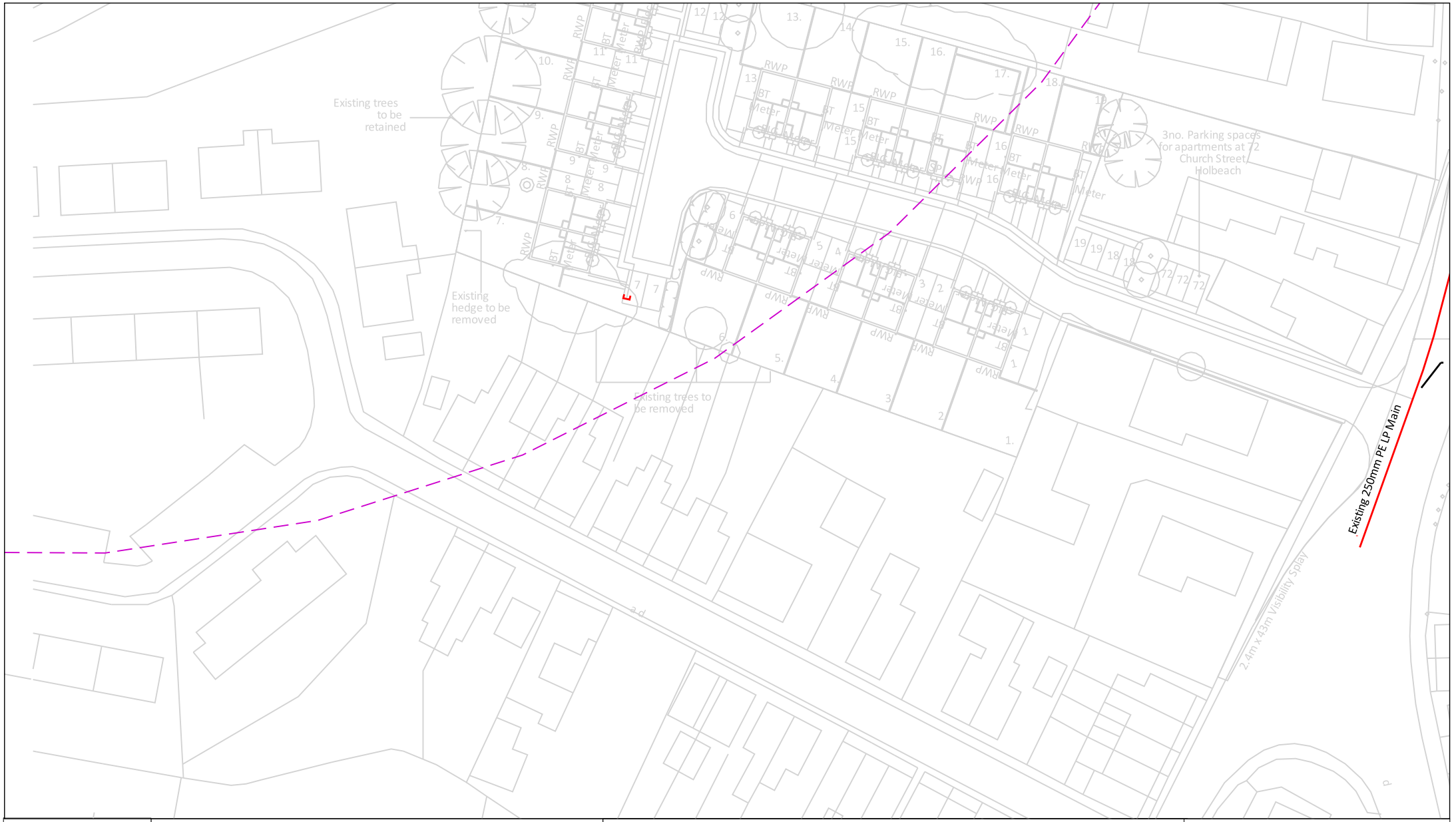
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- PROPOSED IP MAINS
- EXISTING/AS LAID LP SERVICE
- EXISTING/AS LAID MP SERVICE
- EXISTING/AS LAID LP MAINS
- EXISTING/AS LAID MP MAINS
- INSTALLED MP MAINS
- EXISTING/AS LAID IP MAINS
- EXISTING HP MAINS
- DECOMMISIONED PIPE
- PIPE TO BE DECOMMISIONED
- DIAMETER CHANGE
- CAP END
- VALVE
- GAS METERBOX/KIOSK
- GAS RISER
- GAS METER
- CATHODIC PROTECTION
- PRESSURE REDUCTION INSTALLATION (P.R.I)
- MEDIUM PRESSURE SERVICE EXCESS FLOW VALVE
- PRESSURE PROTECTION
- RIDER PURGE POINT
- PLOTS WITH CONNECTIONS OFF OTHER GT/EXISTING GAS NETWORKS

Dig Sites

Area:

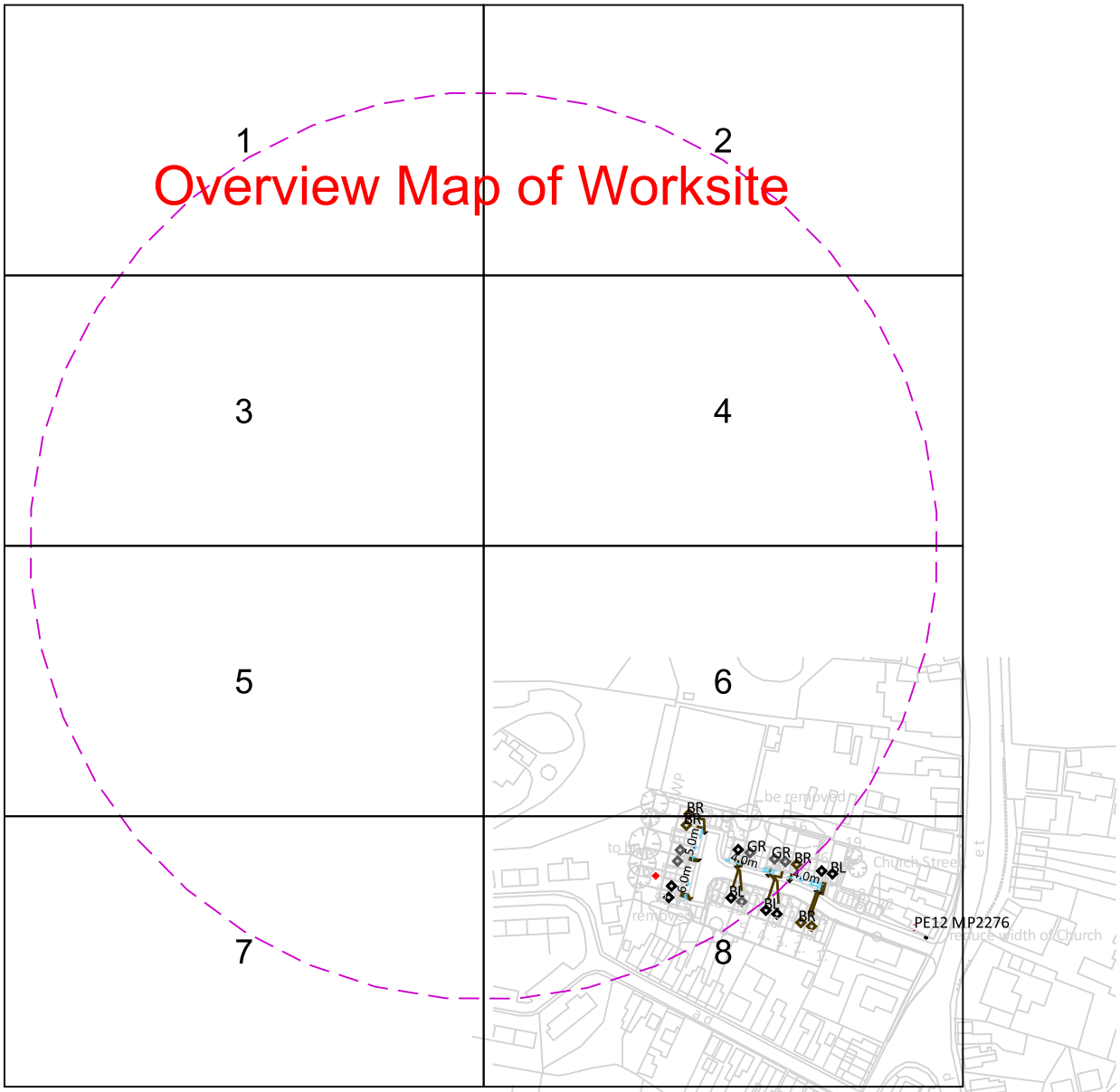
Line:

100m

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Hamilton International Technology Park
Glasgow G72 0FT
Telephone 03300 587 443

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Overview Map of Worksite



In an emergency call 105, 24 hours a day

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- STREET LIGHTING C.P
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- LINK BOX
- EARTH SPIKE
- POT END
- SERVICE JOINT

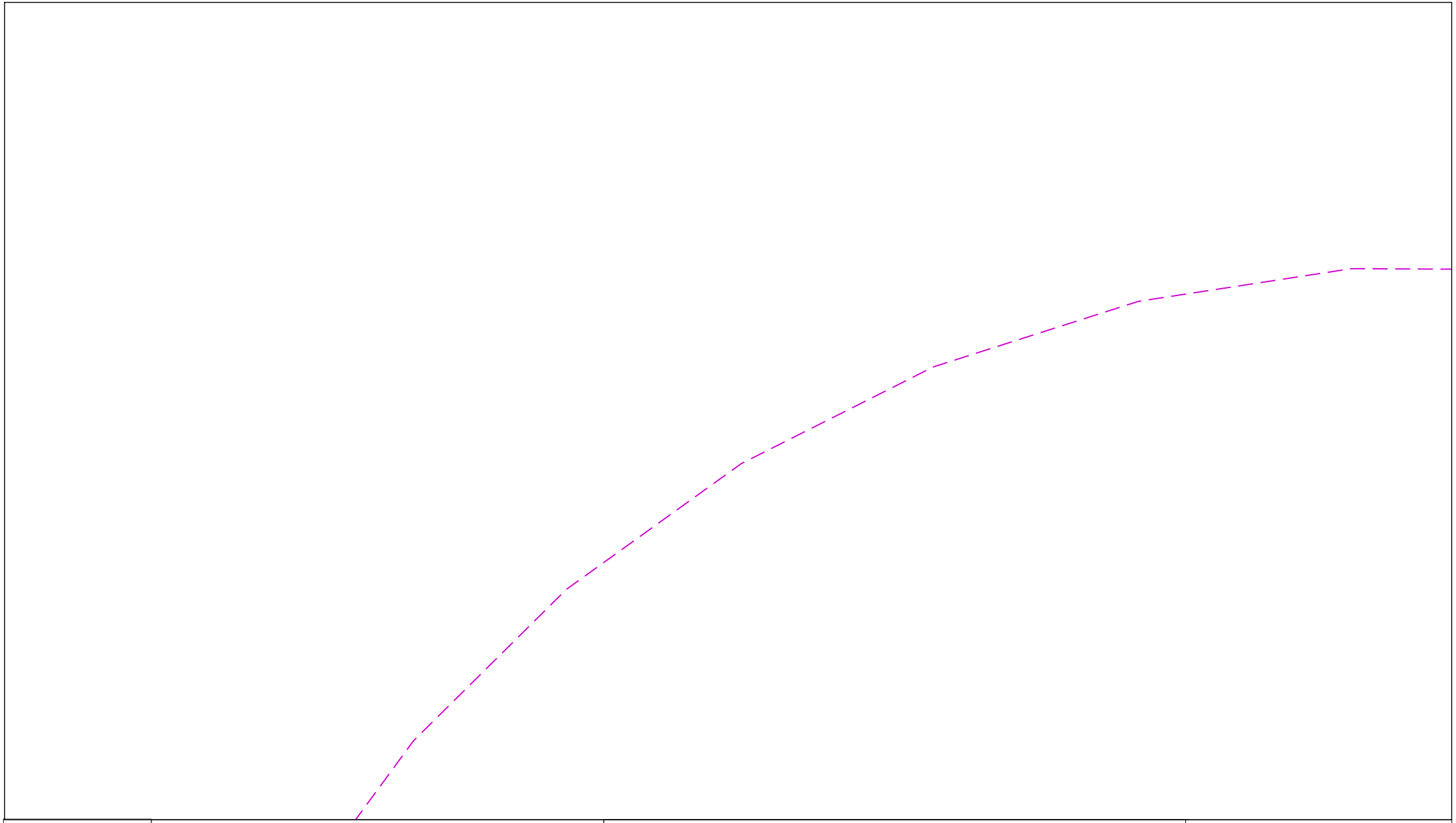
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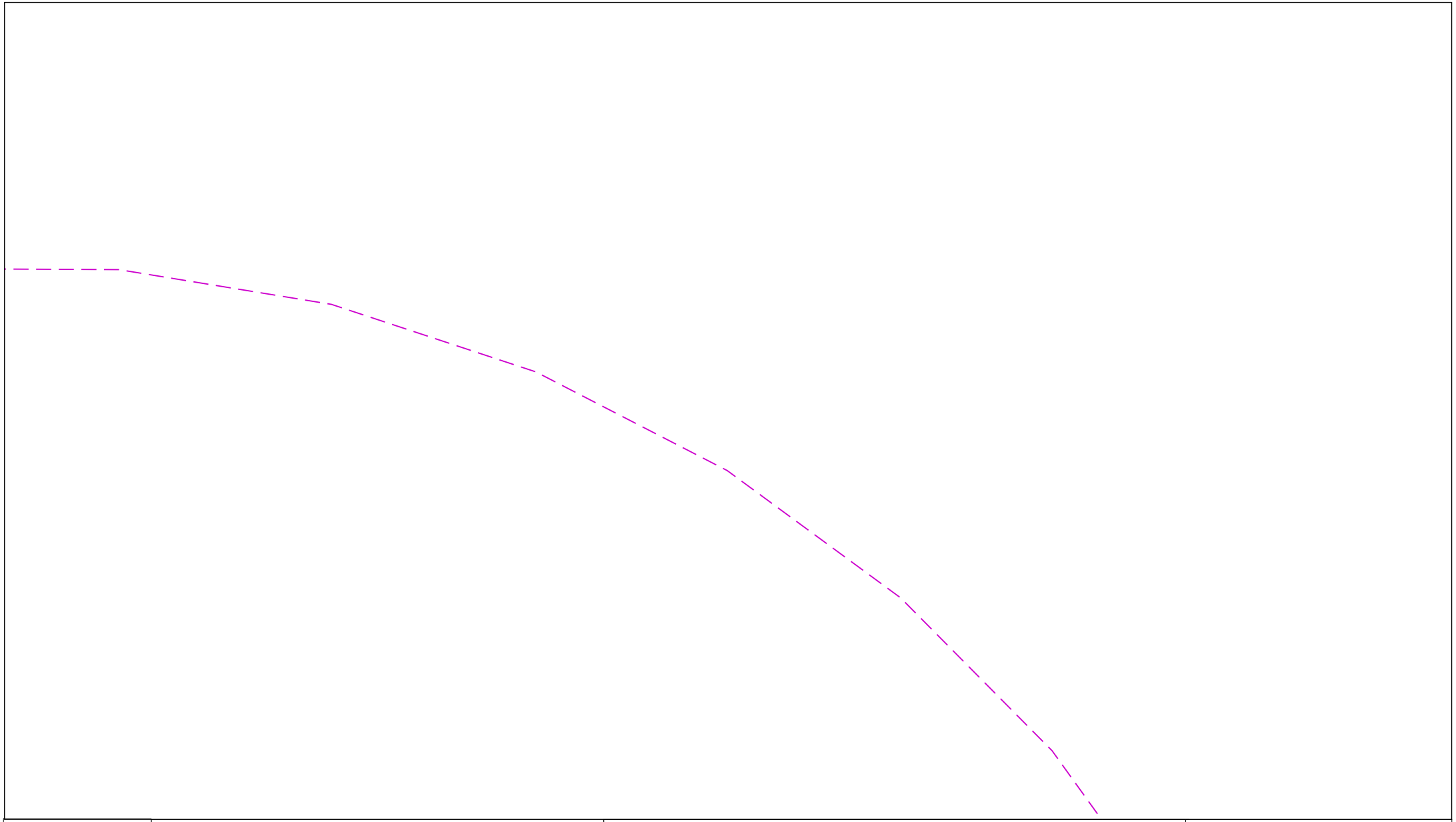
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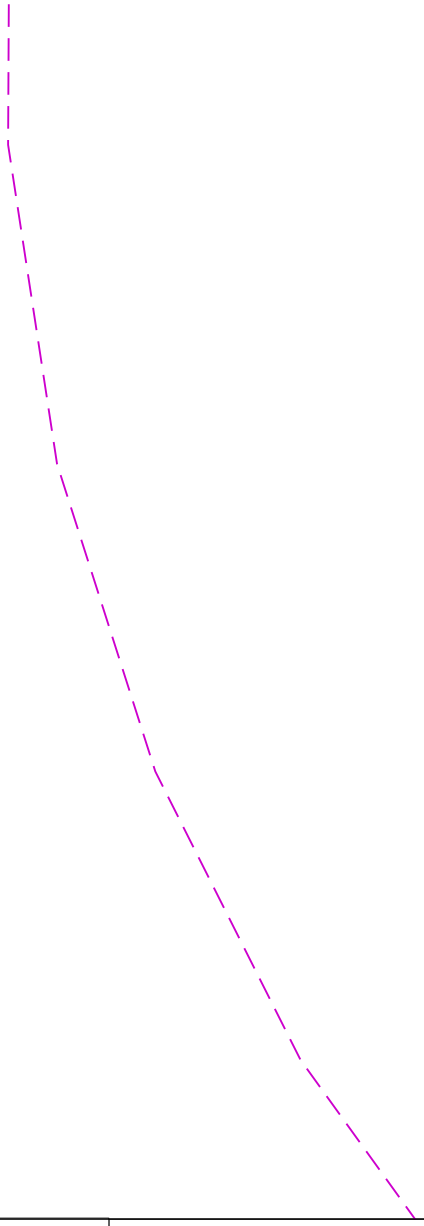
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PROPOSING DISCONNECTED	

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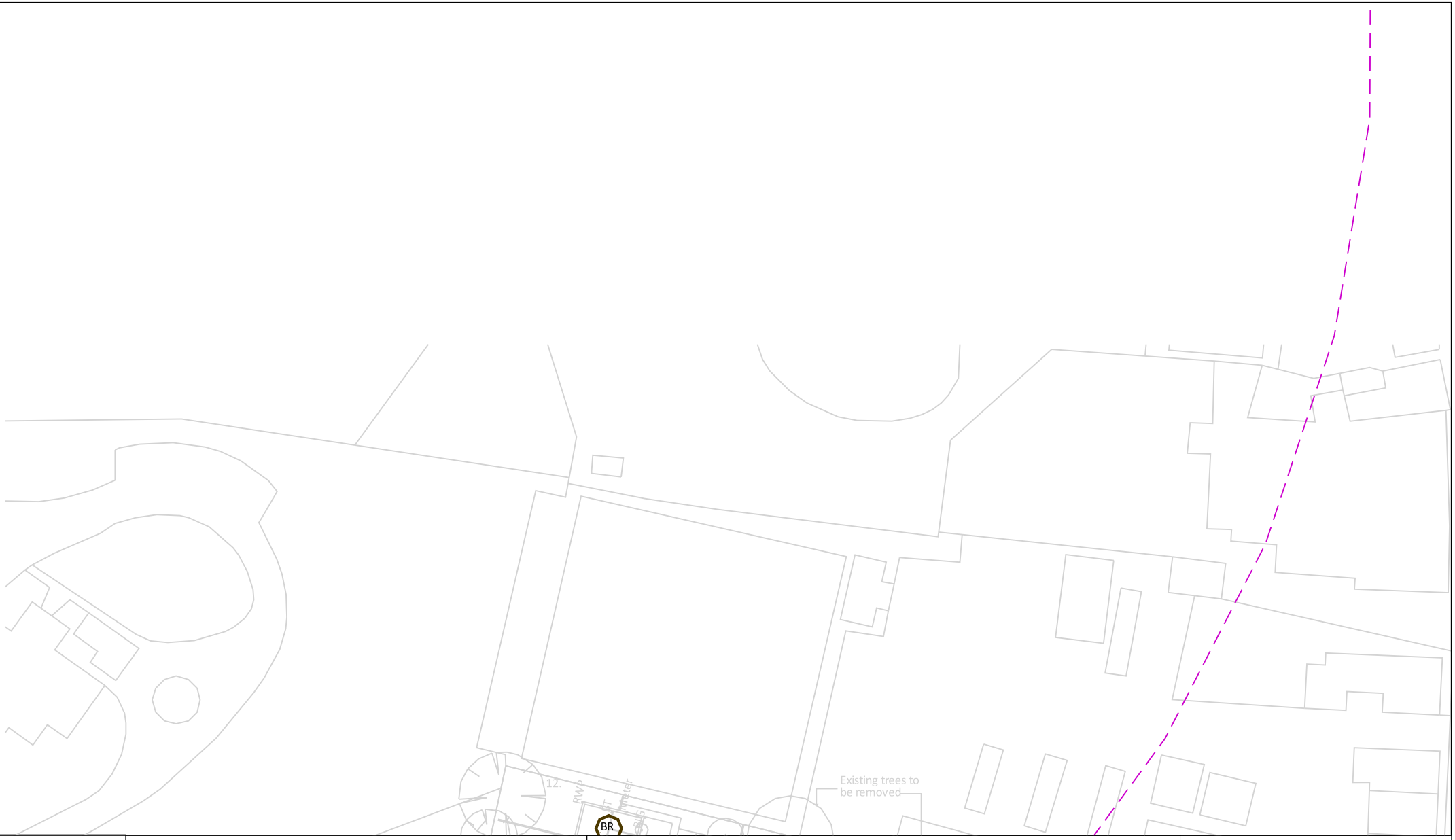
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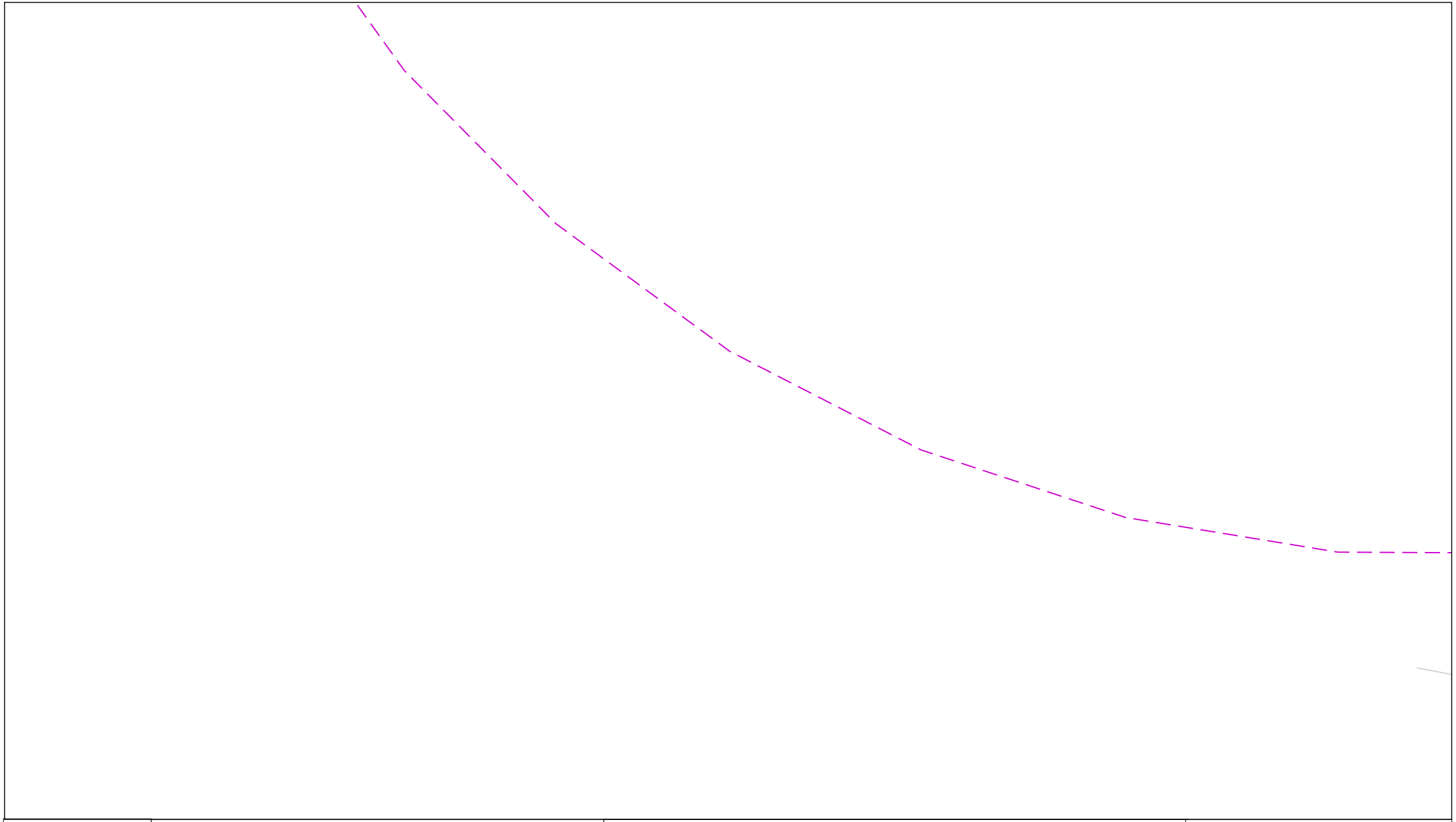
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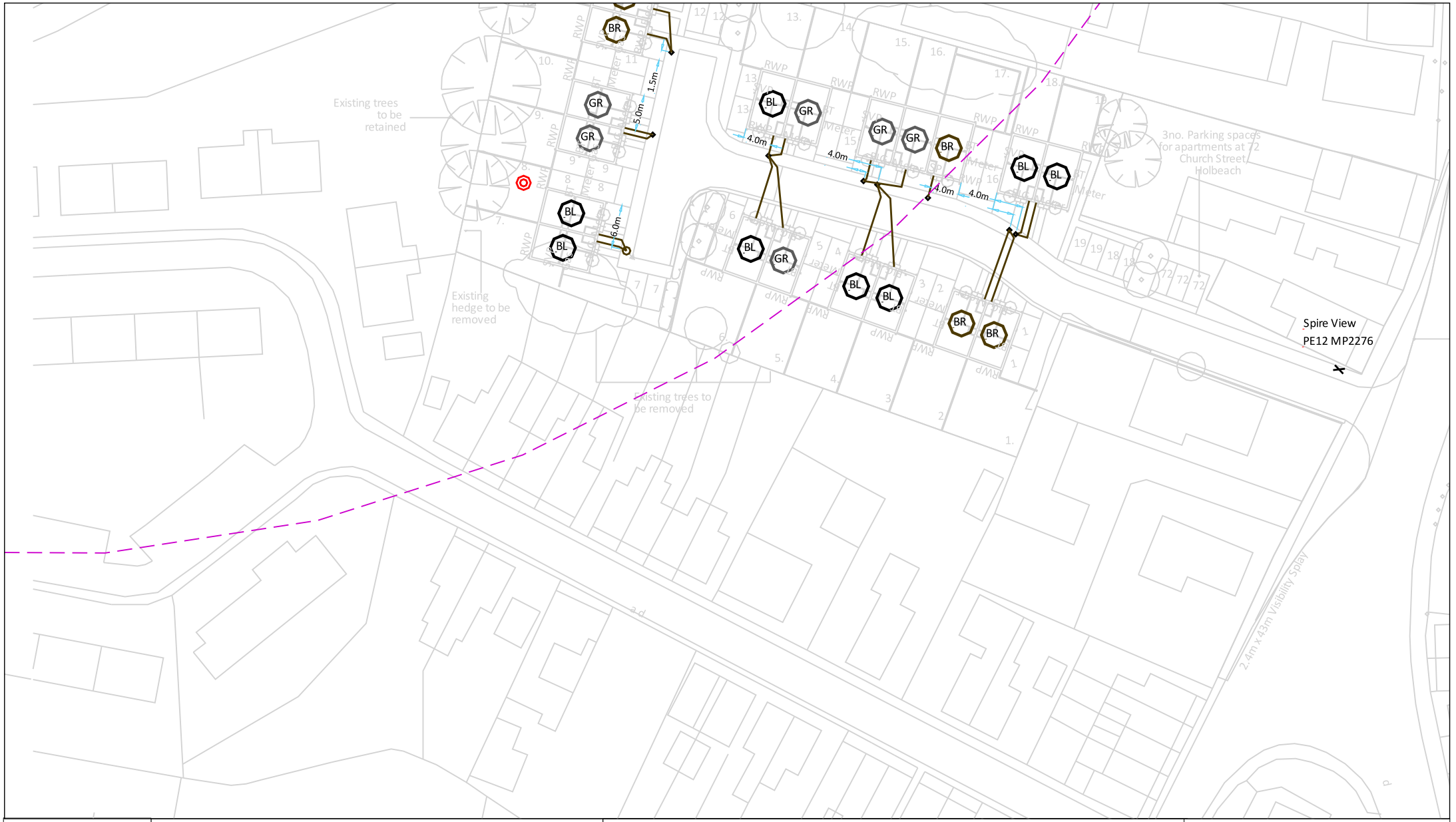
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Communications (None Affected)

Enquiry Confirmation

LSBUD Ref: 23613136

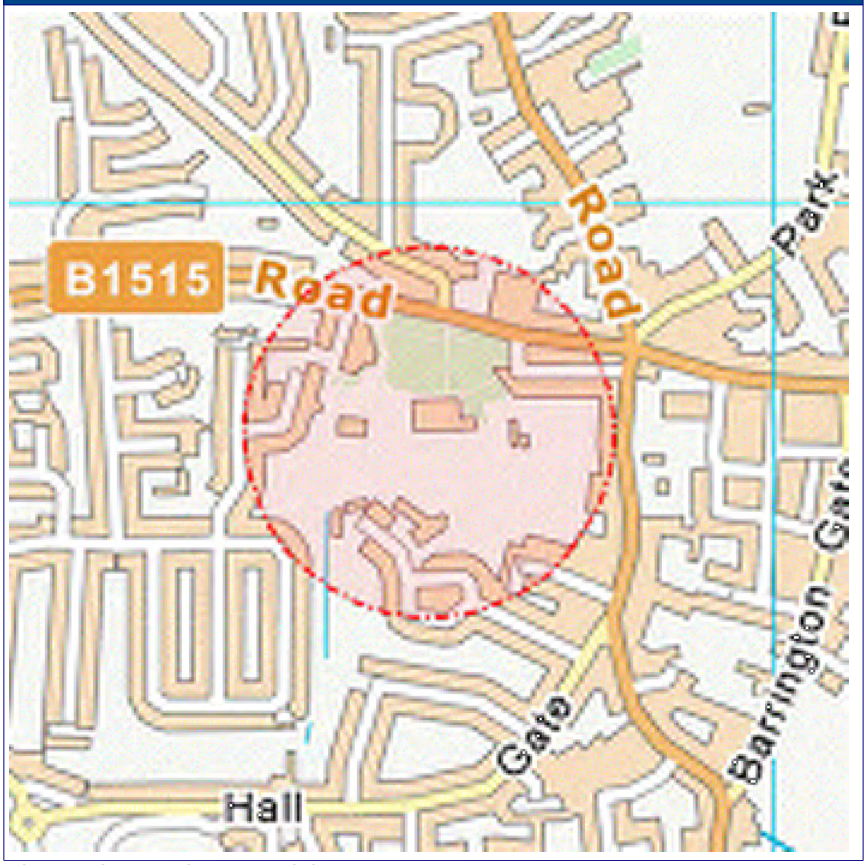
Date of enquiry: 19/10/2021
Time of enquiry: 16:24

Enquiry Details

Scheme/Reference	william stukeley school		
Enquiry type	Initial Enquiry	Work category	Utility Works
Start date	20/10/2021	Work type	Multiple excavations site (1.5m or s
End date	27/10/2021	Site size	385 metres diameter
Searched location	XY= 535625, 324780	Work type buffer*	25 metres
Confirmed location	535640 324762		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works			

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map



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Enquiry Confirmation

LSBUD Ref: 23613136

Date of enquiry: 19/10/2021
Time of enquiry: 16:24

Asset Owners

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.linesearchbeforeudig.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

Notes. Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LinesearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Asset Owners & Responses. Please note the enquiry results include the following:

1. "LSBUD Members" who are asset owners who have registered their assets on the LSBUD service.
2. "Non LSBUD Members" are asset owners who have not registered their assets on the LSBUD service but LSBUD is aware of their existence. Please note that there could be other asset owners within your search area.

Below are three lists of asset owners:

1. LSBUD Members who have assets registered within your search area. ("Affected")
   a. These LSBUD Members will either:
      i. Ask for further information ("Email Additional Info" noted in status). The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.

      ii. Respond directly to you ("Await Response"). In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.

2. LSBUD Members who do not have assets registered within your search area. ("Not Affected")

3. Non LSBUD Members who may have assets within your search area. Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

Enquiry Confirmation

LSBUD Ref: 23613136

Date of enquiry: 19/10/2021
Time of enquiry: 16:24

LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members			
Asset Owner	**Phone/Email**	**Emergency Only**	**Status**
Cadent Gas	0800688588	0800111999	Await response
Last Mile	plantenquiries@lastmile-uk.com	0800111999	Await response
Western Power Distribution	08000963080	08006783105	Await response

LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.

List of not affected LSBUD members		
AWE Pipeline	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
Box Broadband	BP Exploration Operating Company Limited	BPA
Carrington Gas Pipeline	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	D.S.Smith	Diamond Transmission Corporation
DIO (MOD Abandoned Pipelines)	DIO (MOD Live Pipelines)	E.ON UK CHP Limited
EirGrid	Electricity North West Limited	ENI & Himor c/o Penspen Ltd
EnQuest NNS Limited	EP Langage Limited	ESP Utilities Group
ESSAR	Esso Petroleum Company Limited	euNetworks Fiber UK Ltd
EXA Infrastructure	Exolum Pipeline System	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Harbour Energy	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Mainline Pipelines Limited
Manchester Jetline Limited	Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)
Melbourn Solar Limited	Murphy Utility Assets	National Grid Electricity Transmission
National Grid Gas Transmission	Neos Networks	Northumbrian Water Group
NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd	NYnet Ltd
Oikos Storage Limited	Ørsted	Palm Paper Ltd
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Portsmouth Water	Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd
SES Water	SGN	Shell
Shell NOP	SSE Generation Ltd	SSE Transmission
SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)	Total Colnbrook Pipelines

Total Finaline Pipelines	Transmission Capital	UK Power Networks
Uniper UK Ltd	University of Cambridge Granta Backbone Network	Vattenfall
Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd	VPI Power Limited
Wales and West Utilities	West of Duddon Sands Transmission Ltd	Westminster City Council
Zayo Group UK Ltd c/o JSM Group Ltd		

Enquiry Confirmation

LSBUD Ref: 23613136

Date of enquiry: 19/10/2021
Time of enquiry: 16:24

The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding. Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.

Non-LSBUD members (Asset owners not registered on LSBUD)			
Asset Owner	**Preferred contact method**	**Phone**	**Status**
Anglian Water	http://www.digdat.co.uk	01480323891	Not Notified
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CenturyLink Communications UK Limited	plantenquiries@instalcom.co.uk	02087314613	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
ENGIE	nrswa.uk@engie.com	01293 549944	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Lincolnshire County Council	cschighways@lincolnshire.gov.uk	01522782070	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sota	SOTA.plantenquiries@instalcom.co.uk		Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified

Disclaimer
Please refer to LinesearchbeforeUdig's Terms of Use for full terms of use available at www.linesearchbeforeudig.co.uk
The results of this Enquiry are personal to the Enquirer and shall not be shared with or relied upon by any other party. The asset information on which the Enquiry results are based has been provided by LSBUD Members, therefore LinesearchbeforeUdig will provide no guarantee that such information is accurate or reliable nor does it monitor such asset information for accuracy and reliability going forward. There may also be asset owners which do not participate in the enquiry service operated by LinesearchbeforeUdig, including but not exclusively those set out above. Therefore, LinesearchbeforeUdig cannot make any representation or give any guarantee or warranty as to the completeness of the information contained in the enquiry results or accept any responsibility for the accuracy of the mapping images used. LinesearchbeforeUdig and its employees, agents and consultants accept no liability (save that nothing in this Enquiry Confirmation excludes or limits our liability for death or personal injury arising from our negligence, or our fraud or fraudulent misrepresentation, or any other liability that cannot be excluded or limited by English law) arising in respect thereof or in any other way for errors or omissions including responsibility to any person by reason of negligence.

The Holbeach William Stukeley C of E School, Spalding – October 2021

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

We can confirm that Colt Technology Services do not have apparatus near the above location as presented on your submitted plan, if any development or scheme amendments fall outside the 50 metre perimeter new plans must be submitted for review.

Search is based on Overseeing Organisation Agent data supplied; we do not accept responsibility for O.O. Agent inaccurate data.

If we can be of any further assistance please do not hesitate to contact us.

Kind regards,

Plant Enquiry Team

C.A. TELECOM UK LIMITED

The Holbeach William Stukeley C of E School, Spalding – October 2021

Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that KPN do not have any apparatus within the immediate proximity of your proposed works

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

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept

Instalcom Limited

Borehamwood Ind. Park

Rowley Lane

Borehamwood

WD6 5PZ

Office: +44 (0)208 731 4613

Fax: +44 (0)208 731 4601

Email: kpn.plantenquiries@instalcom.co.uk

Web: http://www.instalcom.co.uk

The Holbeach William Stukeley C of E School, Spalding – October 2021

Dear Sir or Madam,

Thank you for your plant enquiry below.

We can confirm that Level 3, Global Crossing (Uk) Ltd, Global Crossing PEC, Fibernet UK Ltd and Fibrespan Ltd do not have any apparatus within the indicated works area.

Instalcom responds to plant enquiries for all of the above and therefore you only need send one plant enquiry to cover all of these companies.

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept

Instalcom Limited

Borehamwood Ind. Park

Rowley Lane

Borehamwood

WD6 5PZ

Office: +44 (0)208 731 4613

Fax: +44 (0)208 731 4601

Email: plantenquiries@instalcom.co.uk

Web: http://www.instalcom.co.uk



Thank you for your enquiry.

Please be advised that Sky Telecommunications Services Ltd will not be affected by your proposal.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us by email at nrswa@sky.uk.

Regards

NRSWA Department
Sky UK – Technology - Operations
nrswa@sky.uk +44 2070323234

Energy Assets

Hello,

Thank you for your email.
I can confirm we have no assets in the area.

Kind regards,

Hi, thanks for the advance notice however I can confirm on this occasion we have NO apparatus in the vicinity of the proposed works. (Gtt formerly Hibernia Networks). We are now a member of LSBUD, for all future requests please contact LSBUD directly.

Regards

Owen Maguire

Networks Operations Manager NI
office: +44 (0) 28 70380028 | mobile: +44 754-553-2224

www.gtt.net



Leep Electricity Networks Ltd & Leep Utilities have no apparatus in this area.

Regards
Diane

Leep Electricity Networks
Take a look at our **website**

e: lenl@leeputilities.co.uk
w: **www.leeputilities.co.uk**
Privacy Notice

Leep Holdings (Utilities) Limited : Registered in England & Wales : Company Number 06729159 : Registered Office: The Greenhouse, MediaCity UK, Salford, M50 2EQ.

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The Holbeach William Stukeley C of E School, Spalding – October 2021

Dear Sir/Madam

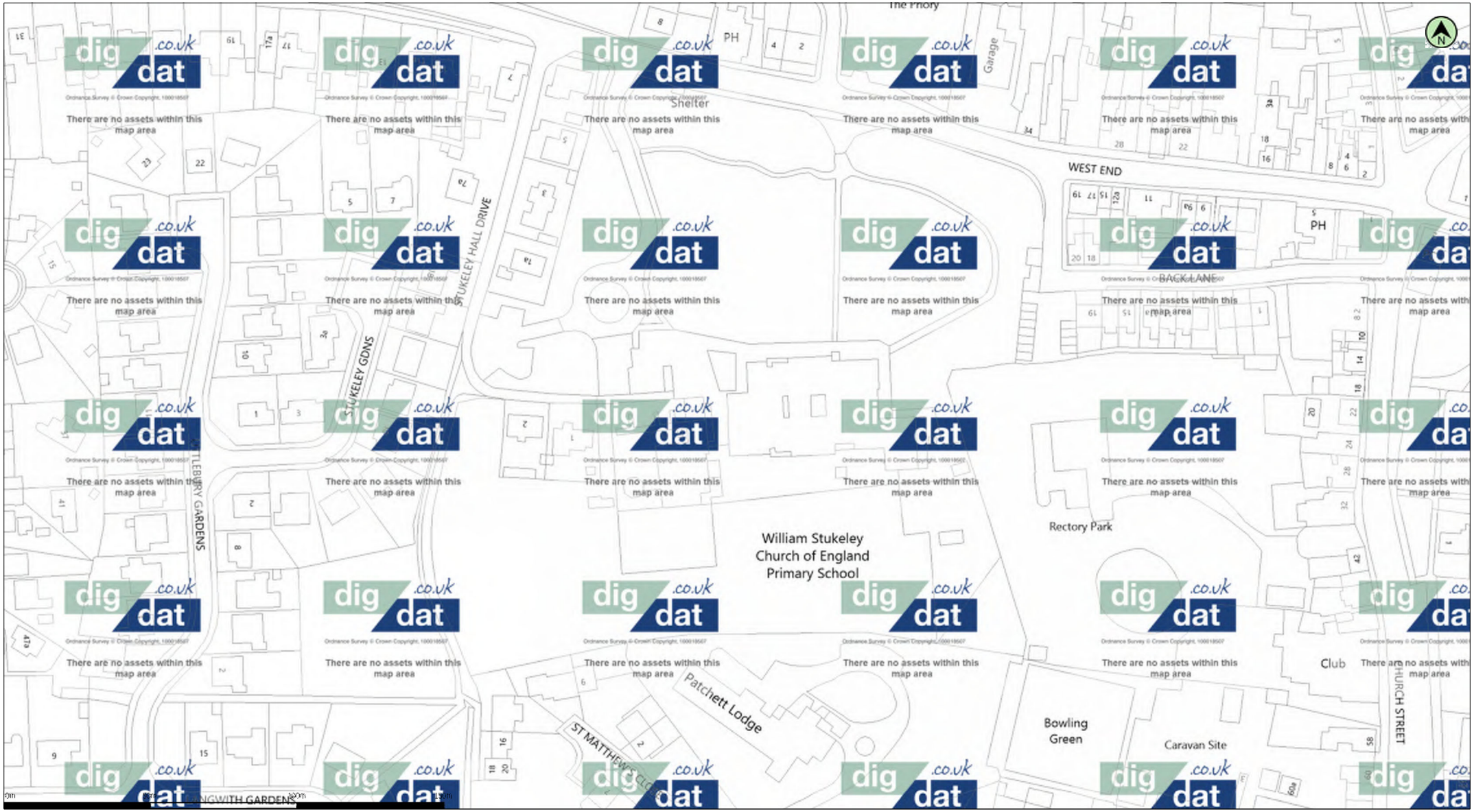
Verizon is a licensed Statutory Undertaker.

We have reviewed your plans and have determined that Verizon (Formally known as MCI WorldCom, MFS) has no apparatus in the areas concerned.

If you have any further queries, please do not hesitate to get in touch.

Yours faithfully

Plant Protection Officer (GB) Email osp-team@uk.verizon.com



(c) Crown copyright and database rights 2021 Ordnance Survey 100019209 | Date: 19/10/21 | Scale: 1:1250 | Map Centre: 535625,324780 | Data updated: 01/10/21 | Our Ref: 679205 - 6 | Telecoms Plan A3

Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2021 Ordnance Survey 100019209.

Duct, Trench | Chamber / Pole | Cabinet

utilitysitesearch@outlook.com

WILLIAM STKELEY

The Holbeach William Stukeley C of E School, Spalding – October 2021

Dear Sir/Madam,

Please note that KCOM only own apparatus within the Public Highway in East Yorkshire and Lincolnshire.

Apparatus in the Public Highway, which was previously owned by KCOM outside of East Yorkshire and Lincolnshire, is now owned by City Fibre.

All future Plant enquiries or NRSWA C2, C3 or C4 Inquiries, regarding this apparatus outside of East Yorkshire and Lincolnshire, should be directed to City Fibre not KCOM.

Please forward your enquiry to asset.team@cityfibre.com

PLEASE NOTE THIS EMAIL HAS NOT BEEN FORWARDED

Regards

Jarod Gillespie

Apprentice Planning and Design Consultant– Field Engineering

Tel: +44 (0)3316 646302

Mob: +44 (0)7484 032622

Email: jarod.gillespie@kcom.com

Web: www.kcom.com

Good Morning,

We can confirm we do not have anything in this area at present.

Thank you for your email.

Please do not hesitate to contact me with any queries

Victoria Coles
Eclipse Power
Office: +44 (0) 1234 486487
Mobile: +44 (0) 7860927197

www.eclipsepower.co.uk

This e-mail is intended exclusively for the individual(s) to whom it is addressed and may contain information that is privileged, or confidential. If you are not the addressee, you must not read, use or disclose the contents of this e-mail. If you receive this e-mail in error, please notify enquiries@eclipsepower.co.uk giving the name of the sender and delete the e-mail immediately. Eclipse Power has taken every reasonable precaution to ensure that an attachment to this e-mail has been checked for any viruses. Eclipse Power cannot, however, accept liability for any damage sustained as a result of software viruses and would strongly advise that you carry out your own virus checks before opening any attachment.

Telia Carrier

Public

Date
19102021

Contact
Telia Carrier
Infrastructure Team

check-network@teliacompany.com

Your reference: William Stukeley C of E School

Our reference: UK_ROW_37_ZD_19102021

Dear Sir/Madam,

Responding to your Line Plant Enquiry we would like to inform you that Telia Carrier's network is not in vicinity of the location which was detailed in your enquiry.

We kindly inform you that from the 1st of June Telias inquiries handling process has changed. The new contact email is check-network@teliacompany.com instead of telenttelia.plantenquiries@telent.com. Please note that the contact postal address has changed as well please find below.

Our team is seeking opportunity to cooperate with Enquirers whose enquiries are targeting locations far away from our network. Our intention is to reduce the number of out-of-area requests and save time and manpower on both side. If you can utilize our network KMZ map to see where our network is located and to pre-filter the enquiries which are far from our network, please contact us at check-network@teliacompany.com and we will provide you a KMZ network map.



Company Information
Telia Carrier UK Ltd.
69-77 Paul Street, London, England, EC2A 4PN United Kingdom
Reg no. 2796345
VAT no. GB 628419621

Contact information
Telia Carrier UK Ltd.
Postal & Visiting Address: 3rd Floor, 69-77 Paul Street, London, England, EC2A 4PN United Kingdom
Tel 08000287406
teliacarrier.com

Public

Date
19102021

Please note that all enquiries relating to the Telia Carrier line plant should forwarded to:

By post - to,	Telia Carrier Uk Ltd
	69-77 Paul Street
	3rd Floor
	London
	EC2A 4NW
By email - to,	check-network@teliacompany.com
By phone - to,	08000287406 003618089955

Your sincerely

Tardos Csizmazia

GIS Officer

check-network@teliacompany.com

Telia Carrier Infrastructure Team

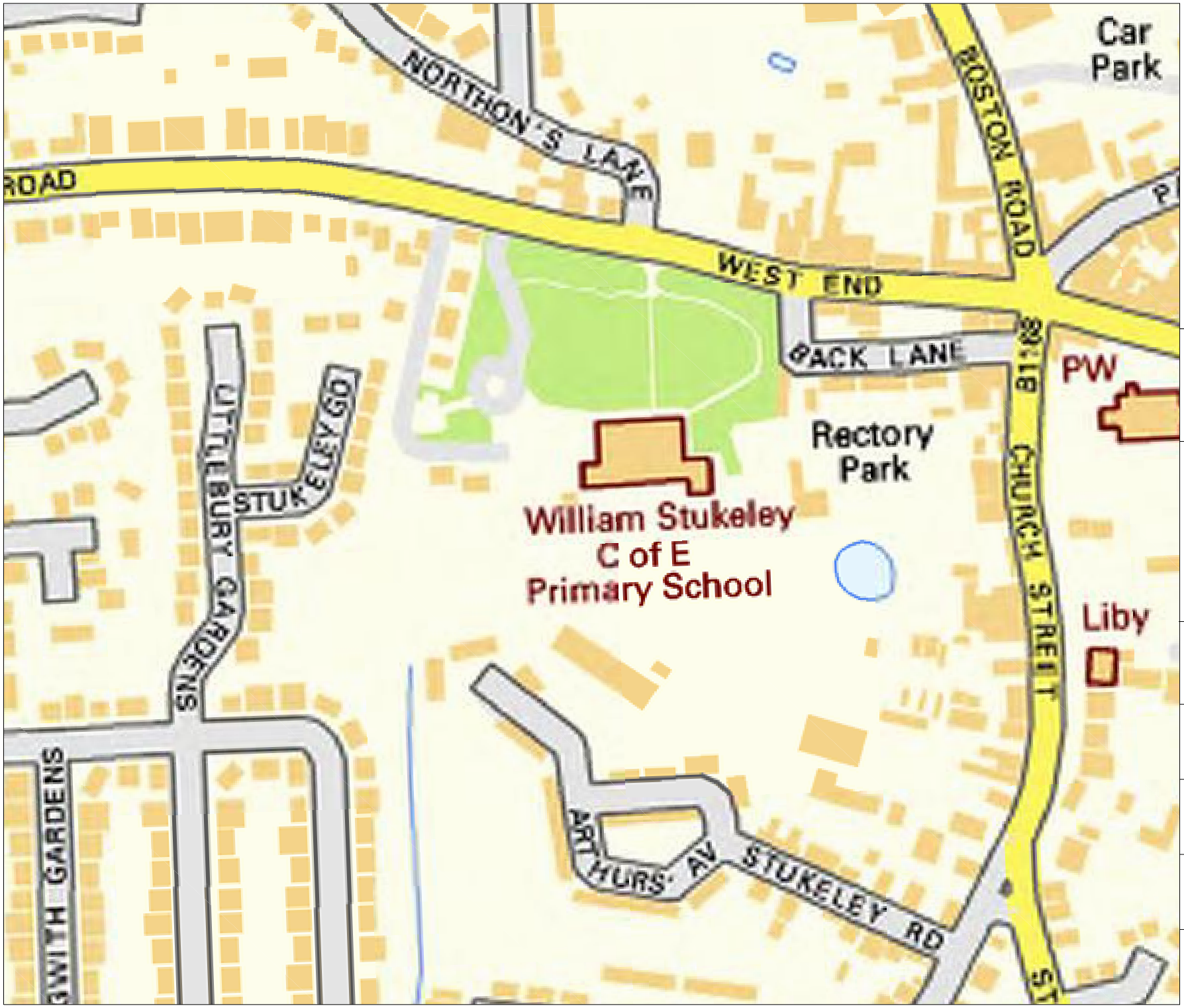
The Holbeach William Stukeley C of E School, Spalding – October 2021

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

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

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

Asset Manager - Utility Assets Ltd



bitmap_layout select_raster

LEGEND

EXISTING PLANT

EXISTING PLANT

bitmap_layout select_raster

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE

Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH

Email: asset.team@cityfibre.com

Disclaimer:

Information shown on this plan is for general guidance only. No warranty is made as to its accuracy.
This plan must not be solely relied upon in the event of excavation or other works being carried out in the vicinity of Cityfibre plant.
No liability of any kind is accepted by Cityfibre, its agents or servants for any error, omission, discrepancy or deviation. This information is valid for the date printed.

Project

Plant Enquiry

Drawing

Existing Plant

Drawn by:

smallworld

Date: 20/10/2021

Drawing No.

CFH_EP_000001

Revision

001

Scale: 1:2500

A4

0m 20m 40m 60m 80m 100m

N

The Holbeach William Stukeley C of E School, Spalding – October 2021

Thank you for your recent enquiry regarding your proposed work at the above location.

euNetworks Fiber UK Limited do not have plant in the vicinity of your proposed works and no strategic additions to our existing network are envisaged in the immediate future.

This information is only valid for a period of 3 months so, if your start date is 3 months or more from the date of this email, please re-apply for updated information at our generic email address: plantenquiries@psgservices.co.uk.

Kind regards

ALL PLANT ENQUIRIES AND DIVERSIONARY REQUESTS SHOULD BE ADDRESSED BY EMAIL TO THE OPERATIONS

TEAM AT plantenquiries@psgservices.co.uk **, WITH A PLAN AND FULL POSTAL ADDRESS OF YOUR ENQUIRY,**

THANK YOU

For and on behalf of euNetwork Fiber UK Limited

Regards

Stuart Green

M 07796 696810 | **T** 01257 433166 | **E** plantenquiries@psgservices.co.uk

Telecommunications Survey, Planning, Engineering & GIS Services

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GTC Apparatus Not Found In Search Area

Our Plant Enquiry Service

Thank you for your enquiry concerning apparatus in the vicinity of your proposed work. GTC can confirm that we have no apparatus in the vicinity but please note that other asset owners may have and ensure all utility owners have been consulted. For your records, the search area is shown in the attached map.

Please note our assets now include those owned and operated by:

- GTC Pipelines Limited
- Independent Pipelines Limited
- Quadrant Pipelines Limited
- Electricity Network Company Limited
- Independent Power Networks Limited
- Independent Water Networks Limited
- Open Fibre Networks Limited
- Independent Community Heating Limited

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

Your sincerely,
GTC Plant Enquiry Service.

GTC
Synergy House
Woolpit Business Park
Woolpit
Bury St Edmunds
Suffolk, IP30 9UP
Tel: 01359 240363
plant.enquiries@gtc-uk.co.uk

The Holbeach William Stukeley C of E School, Spalding – October 2021

Good Morning,

I can confirm there are no assets in the area.

Kind Regards

Claire Phillips

Distribution Administration Assistant

0844 800 1813







Harlaxton
Energy Networks Limited

Toll Bar Road, Marston, Grantham, Lincolnshire, NG32 2HT Registered Company Number : 7330883

The Holbeach William Stukeley C of E School, Spalding – October 2021

Dear Sir or Madam,

With reference to your plant enquiry below, we can confirm that SOTA do not have any apparatus within the immediate proximity of your proposed works.

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

Please note that this response is only valid for 3 months. If your works do not commence within this time period, please resubmit your plant enquiry for assessment before any works commence.

Regards

Plant Enquiries Dept.
Instalcom Limited
Borehamwood Ind. Park
Rowley Lane
Borehamwood
WD6 5PZ

Office: +44 (0)208 731 4613
Fax: +44 (0)208 731 4601
Email: sota.plantenquiries@instalcom.co.uk
Web: http://www.instalcom.co.uk

Dear Sir/Madam

Turner & Townsend Project Management are appointed on behalf of MBNL to conduct Plant (apparatus) Searches in accordance with the relevant NRSWA Act 1991- Diversionary Works legislation. These searches considered plant belonging to EE (T-Mobile and Orange sites) and the HG3 mobile telecommunication networks.

Further to your plant enquiry please see the response below to the NRSWA request submitted.

MBNL do not have any plant that would be affected by the proposed work please see attached. Should you have any further queries please use the contact details below.

PS: Please can you send all future Plant enquiries for EE or H3G to this email address mbnlplantenquiries@turntown.com

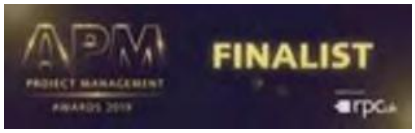
Thank you,

Kind regards,

MBNL SHQE Team

Turner & Townsend
t: 0121 262 3663 | www.turnerandtownsend.com





The Holbeach William Stukeley C of E School, Spalding – October 2021

To whom it may concern

With regard to your request for details of existing services in the specified area;

We can confirm that, based on the details provided to us, we have no buried plant or equipment in the identified area.

ENGIE Document Control
Urban Energy
UK & Ireland
NRSWA.UK@engie.com

Cofely GDF SUEZ is now ENGIE

engie.co.uk

Kings Yard,
1 Waterden Road,
Queen Elizabeth Olympic Park
London E15 2GP - UK

Please consider the environment before printing this message

The Holbeach William Stukeley C of E School, Spalding – October 2021

Thank you for your correspondence enclosing details of your proposals as per your reference below.

Our client's apparatus, Teliasonera, is not located within the vicinity of the above reference and we therefore have no further interest in this current location.

Please note that all enquiries relating to the Teliasonera line plant should be forwarded to:

By post – to, telent,

Teliasonera line plant enquiries,

Mayne House,

Fenton Way,

Basildon,

Essex

SS15 6TD

By email - to, telenttelia.plantenquiries@telent.com

By phone – to, 01268 269096

Yours faithfully

Telent CCO

Basildon

The Holbeach William Stukeley C of E School, Spalding – October 2021

Dear Sir,

Our records show we have no equipment at this location.

Linda
Linda Francomb Delivery Administrator
Clear Channel United Kingdom Unit 9, Newtons Court, Galleon Boulevard, Crossways Business Park Park, Dartford, Kent DA2 6QL
D 0044 1322 620 707
M N/A



Disclaimer

This record pack has been compiled from information provided by Statutory Utility Providers. Whilst every effort has been made to ensure the accuracy and completeness of information included within this report.

Tower Surveys Associates Ltd

Take no responsibility for erroneous or missing historic record data which has been supplied to us from a utility provider. Due to the nature of record Information being indicative rather than accurate a full on-site utility survey must be undertaken prior to any groundwork's or construction. not all searches are guaranteed to be present within this search report, so the provider of this report takes no responsibility for any damage done to any apparatus, due to missing searches, which may not have been conducted, or provided within this report.