



PJR

BUILDING SERVICES
DESIGN ENGINEERS

UTILITY SERVICES REPORT

FOR

HUGGENSS COLLEGE
COLLEGE ROAD
NORTHFLEET
GRAVESEND
DA11 9DL

Date:
April 2024

Reference:
H35/01/USR ver. 2

**Suite 29 Level 6
New England House
New England Street
Brighton
BN1 4GH**

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1.0 Executive Summary

This report assesses the predicted affect that the proposed development will have on the existing utility services within the vicinity of the site, and the capabilities of the existing distribution networks to service the development.

With the intention being that the strategy for the production of space heating and domestic hot water would be utilising electricity to prevent the adoption of fossil fuel energy sources, and provision being included within the scheme for electric vehicle charging it is anticipated that the existing substation located in the South East corner of the site will require to be upgraded or supplemented.

From the information available and initial determination of the required utility energy demands for the development, it would appear that generally the existing assets and distribution networks are capable of supporting the proposed developments requirements, with a potential upgrade on the UKPN HV network to support the upgraded/new sub-station(s).

The Southern Water network distribution would need to be extended onto the site to serve an additional fire hydrant being located to the North West of the site in the required proximity to the buildings for use by the Fire Service.

From the information available it has been ascertained that disconnection works will be required to the existing assets operated by Southern Water, BT Openreach, SGN and UKPN.

2.0 Introduction

The proposed development comprises of Demolition of existing buildings and erection of retirement living apartments (Use Class C3), together with the extension of the existing chapel and the provision of associated communal facilities and external amenity space, lodge keeper's and guest accommodation, back-of-house facilities, parking, bicycle/mobility scooter parking, and associated works including the creation of a secondary, emergency access from College Road.

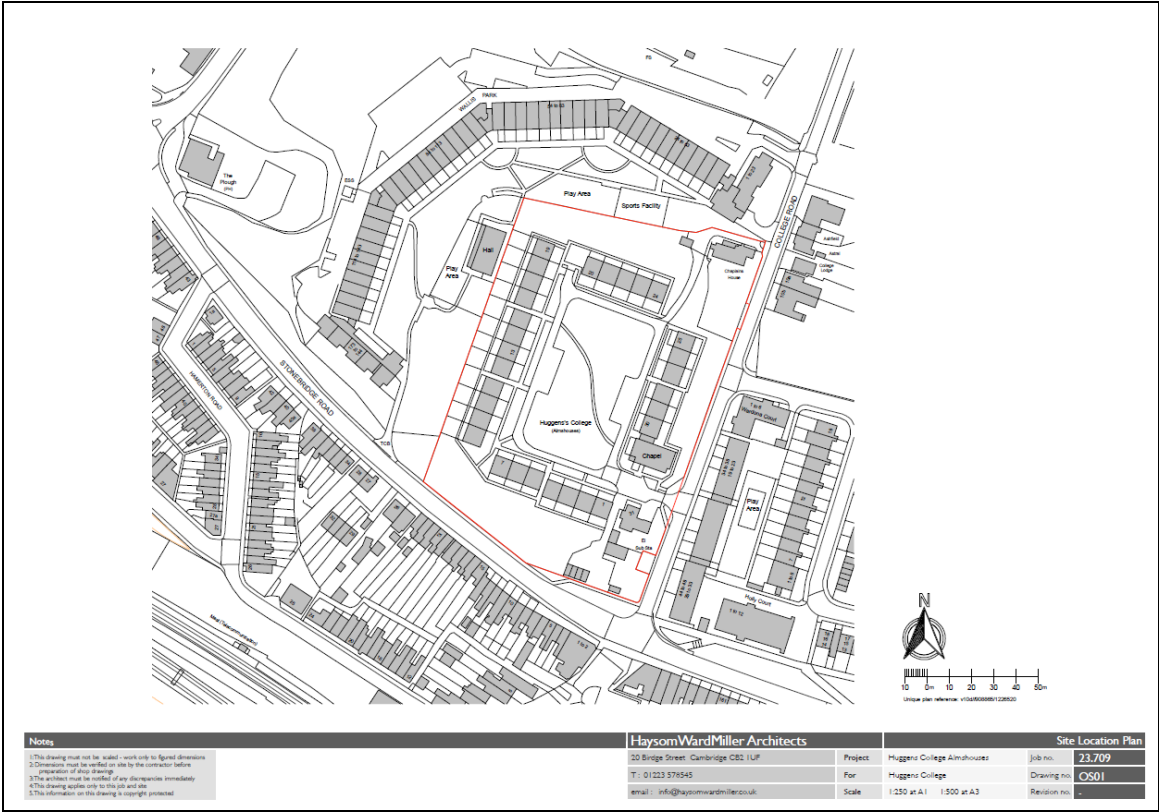


The overall development will provide the following residential accommodation.

Location	No. of Residential Dwellings
Block 1	17
Block 2	6
Block 3	10
Block 4	11
Block 5	9
Block 6	10
Block 7	10
Block 8	11
Block 9	12
Total	96

3.0 Site History

The Site is located at College Road, Northfleet, Gravesend, DA11 9DL.



Further details of the existing site and its history are contained within the design and access statement produced by Haysom Ward Miller Architects.

4.0 Existing Services

Details of existing assets and distribution networks within the vicinity of the site were obtained from:

BT Openreach

National Grid

SGN

Southern Water

UKPN

Virgin Media

Reference by a desk top study has been made to the search information provided by the utility supply companies in assessing the capabilities of the distribution networks and assets, and the implications to the existing assets based on the proposed scheme.

Copies of the asset record information obtained from the utility supply providers is contained within the appendices of this report.

4.1 ELECTRICITY

From the search information obtained from UKPN it has been identified that 1 No. substation currently exists on the site with incoming HV supplies and outgoing LV supplies. The LV supplies from the substation which is located in the South East corner of the site serve Huggens College and certain residential dwellings located to the North of the site.

The existing LV supplies to buildings located on the site which are to be demolished will require disconnection.

The present location of the distribution network operational assets maintained by UKPN will be subject to diversion and possible re-enforcement to suit the scheme proposals.

National Grid have confirmed that the proposed development would not have an affect on any assets currently operated by them within the vicinity of the site.

4.2 NATURAL GAS

From the search information obtained from SGN it has been identified that a 75mm PE low pressure gas service is extended from the distribution network within College Road to serve the existing buildings located on the site.

The existing low pressure gas supplies to buildings located on the site which are to be demolished will require disconnection.

It is anticipated that the proposed development will not require diversion of existing gas services.

It is not expected that natural gas services will be required for the proposed development.

4.3 MAINS COLD WATER

From the search information obtained from Southern Water it has been identified that mains cold water services to the existing buildings located on the site are derived from the 100mm cast iron distribution network located within College Road, with a water meter located on the site boundary in the South East Corner of the site.

The mains cold water supply to the site in addition to serving the existing residential dwellings also serves a fire hydrant within the site demise adjacent to the Chapel.

The existing mains cold water supplies to buildings located on the site which are to be demolished will require disconnection.

It is anticipated that the proposed development will not require diversion of existing mains cold water services.

4.4 TELECOMMUNICATIONS & CABLE

From the search information obtained from BT Openreach it has been identified that an existing telecommunication network serves the existing buildings located on the site by 2 No. joint boxes located in College Road.

1 No. joint box provides telecommunications infrastructure to the properties on the South, West and North of the site, with 1 No. joint box providing telecommunications infrastructure to the properties on the East of the site.

The BT Openreach telecommunications infrastructure to buildings located on the site which are to be demolished will require disconnection.

It is anticipated that the proposed development will not require diversion of existing BT Openreach telecommunications infrastructure.

From the search information obtained from Virgin Media it has been identified that an existing telecommunication network exists within College Road, but cable services by Virgin Media are not currently provided to the site.

It is anticipated that the proposed development will not require diversion of existing Virgin Media cable services infrastructure.

5.0 Required Services

The scheme proposals will be to provide the following extent of residential accommodation:

Location	No. of Residential Dwellings
Block 1	17
Block 2	6
Block 3	10
Block 4	11
Block 5	9
Block 6	10
Block 7	10
Block 8	11
Block 9	12
Total	96

In addition to the residential accommodation utility services will be required to:

Office/Store
Laundry
Art & Craft Room
Library & Card Room
Chapel & Community Room

An initial assessment of the proposed servicing strategy has been undertaken to inform required utility services requirements, which is based on the following:

Residential Dwellings

Space heating would be provided by electric panel heaters such as the Dimplex LSTE low surface temperature panel heaters with integral electronic thermostat and seven-day programmable timer, with these located within the habitable rooms and heated towel rails with low surface temperature thermostats provided to bathrooms.

Domestic hot water would be generated by the Dimplex EDEL range of heat pump hot water cylinders.

Mechanical ventilation would be provided by the Vent-Axia Lo-Carbon Sentinel Kinetic Advance MVHR unit providing supply and extract ventilation.

Lighting would be LED type throughout.

Chapel/Community Room

Space heating would be provided by an air to water heat pump, such as the Mitsubishi Electric Model CAHV-R45YA-HPB. The heat pump would generate low temperature hot water, which would serve fan assisted radiators such as the Mitsubishi Electric i-Life2 Slim range.

Domestic hot water would be generated by compact instantaneous electric water heaters such as the Stiebel Eltron DCE-S range.

It is anticipated that the Chapel and Community Room would remain naturally ventilated, with the sanitary accommodation being provided with individual extract fans.

Lighting would be LED throughout.

Art & Craft Room

Space heating would be provided by an air to water heat pump, such as the Mitsubishi Electric Ecodan PUZ-WM range. The heat pump would produce low temperature hot water, which would serve fan assisted radiators such as the Mitsubishi Electric i-Life2 Slim range.

We would anticipate that due to the nature of this room that a sink will be incorporated, and if this is the case domestic hot water would be generated by a compact instantaneous water heater, such as the Stiebel Eltron DCE-S range.

Lighting would be LED throughout.

Library and Card Room

Space heating would be generated by an air to water heat pump as such as the Mitsubishi Electric Ecodan PUZ-WM range. The heat pump would generate low temperature hot water which would serve fan assisted radiators such as the Mitsubishi Electric i-Life2 Slim range.

It is anticipated that the ventilation strategy would be natural by openable windows.

Lighting would be LED throughout.

Guest Suite, Staff, Office and Laundry

Space heating would be provided by an air to water heat pump such as the Mitsubishi Electric Ecodan PUZ-WM range. The heat pump would generate low temperature hot water which would serve fan assisted radiators such as the Mitsubishi Electric i-Life2 Slim range.

Domestic water would be generated by an unvented indirect hot water cylinder such as the Mitsubishi Electric EHPT21 Pre-Plumbed Cylinder range, with primary heating provided by the air to water heat pump also producing the space heating.

Extract ventilation to the sanitary accommodation would be provided by continuously operating extract fans providing background ventilation, with boost provided by integral humidity sensors such as the Vent Axia Lo-Carbon Response range. It is anticipated that the bedroom areas and staff office would be naturally ventilated. The laundry would be provided with mechanical ventilation similar to the arrangement proposed for the sanitary accommodation.

Lighting would be LED throughout.

Detailed design and specification of the proposed mechanical and electrical services installations would need to be undertaken to obtain agreement with the client and establish the final utility supply requirements for the project, with the following being an initial estimation of the new buildings energy demand and may be subject to change.

5.1 ELECTRICITY

Dwelling Electric Load Schedule

<u>Electrical Service</u>	<u>Before Diversity</u>	<u>After Diversity</u>
Domestic Hot Water	1.55 kW	1.2 kW
Space Heating	3.0 kW	2.0 kW
Internal lighting	0.3 kW	0.2 kW
Appliances		
Induction hob	4.5 kW	
Oven	3.0 kW	
Fridge/Freezer	0.3 kW	
Washing machine	2.4 kW	
Dishwasher	2.0 kW	
Microwave	0.9 kW	
Appliances Total	13.1 kW	5.24 kW
General small power	3.0 kW	1.2 kW

Total

Power factor – 0.9

For the 96 residential dwellings each with a diversified load of 4.2 kVA, the required total would be 403.2 kVA.

Landlords Supplies

Each of the 6 blocks would be provided with a landlords supply to service the lifts, mechanical plant, lighting and small power, with each supply being 3 Phase 100 Amps, which with an applied diversity of 0.7 would equate to each supply being 49 kVA, and a total site wide load of 294 kVA.

Electric Vehicle Charging

With all of the new car parking bays being provided with fast charge electric vehicle charging facilities to comply with Approved Document Part S this would equate to a connected load of 388.8 kW.

It would be proposed to provide load management systems to the electric vehicle charging installations with these being split between the areas of the development, and being arranged as 3 No. systems each requiring a 3 Phase 100 Amp landlords supply, equating to a total supply demand of 210 kVA.

Total Site Load of Proposed New Dwellings and Ancillary Services

Dwellings	403.2 kVA
Landlords Supplies	294.00 kVA
Electric Vehicle Charging	210.00 kVA
Total	907.20 kVA

It is expected that the load would in reality be accommodated by of 2 No. 500 kVA sub-stations or 1 No. 1000 kVA substation being provided to the site to accommodate the proposed new buildings. With a substation already provided on the site, this would be upgraded or supplemented

The above assumptions will be clarified with UKPN during the detailed design stage of the project.

5.2 NATURAL GAS

It is not anticipated that the development would be provided with natural gas supplies as the dwellings would be assessed for compliance with Approved Document Part L 2021 incorporating 2023 amendments which does not favour the utilisation of fossil fuels.

5.3 MAINS COLD WATER

Given that the specifications of the sanitaryware fittings for the proposed development are yet to be confirmed, the following figures have been applied, which are in accordance with Approved Document Part G for demonstrating water efficiency.

Type	Description	Flow rates, volumes etc.
Taps	Taps	6 litres/min
Baths	Baths	100 litres to overflow
Dishwashers	Dishwasher	1.25 litres/place
Washing Machines	Washing Machines	7 litres/kg
Showers	Showers	6 litres/min
WC's	Toilets	4.5/3 litres flush vols.
Kitchen/Utility taps	Taps	6 litres/min

The mains cold water required flow rates to sanitary fittings has been derived from BS EN 806-3:2006 as follows for the residential dwellings and communal facilities.

Quantity	Description	Loading Units	Total
96	Bath	8	768
99	Basin	2	198
99	WC	1	99
99	Sink	4	396
98	Appliances	2	196
8	External Tap	5	40

The total loading units based on BS EN 806-3:2006 total 1697 which equates to a flow rate of 10.0 litres per second requiring a 90mm MDPE supply.

It is anticipated that the proposed development will include facilities for distributed water storage for each block of dwellings with pressure boosting provided within the site water distribution systems, without being reliant on high pressures and flows from the Southern Water network distribution, and reducing the calculated peak flow rates.

The current provision of fire hydrants which would be accessible to the Fire Service within the vicinity of the site are located within the site demise adjacent to the Chapel building and at the junction between College Road and Warwick Place. With these being in excess of the required maximum distance 100m from the buildings, it is anticipated that an additional fire hydrant will be required to the North west of the site.

With their being a 180mm mains cold water supply within Stonebridge Road it is anticipated that the existing infrastructure within the vicinity of the site will be able to accommodate the requirements of the proposed scheme without the need for significant upgrade.

The above assumptions will be clarified with Southern Water during the detailed design stage of the project.

5.4 TELECOMMUNICATIONS

The proposed development will require ducts to serve each of the apartment buildings to enable the provision of telecommunication services in accordance with Approved Document Part R, and it is intended that these would be extended from the existing assets operated by BT Openreach from the East of the site.

The proposed development will require ducts to serve each of the apartment buildings, and it is intended that these would be extended from the existing assets operated by Virgin Media from the East of the site, should cable services be required by the client.

6.0 Services Diversions

6.1 ELECTRICITY

The present location of the distribution network operational assets maintained by UKPN will be subject to diversion at the North East corner of the site, which serves residential buildings outside of the site demise to the North of the site, based on the information contained within the asset record information obtained from the utility supply provider.

6.2 NATURAL GAS

It is anticipated that the proposed development will not require diversion of existing gas services, based on the information contained within the asset record information obtained from the utility supply provider.

It is not expected that natural gas services will be required for the proposed development.

6.3 MAINS COLD WATER

It is anticipated that the proposed development will not require diversion of existing mains cold water services, based on the information contained within the asset record information obtained from the utility supply provider.

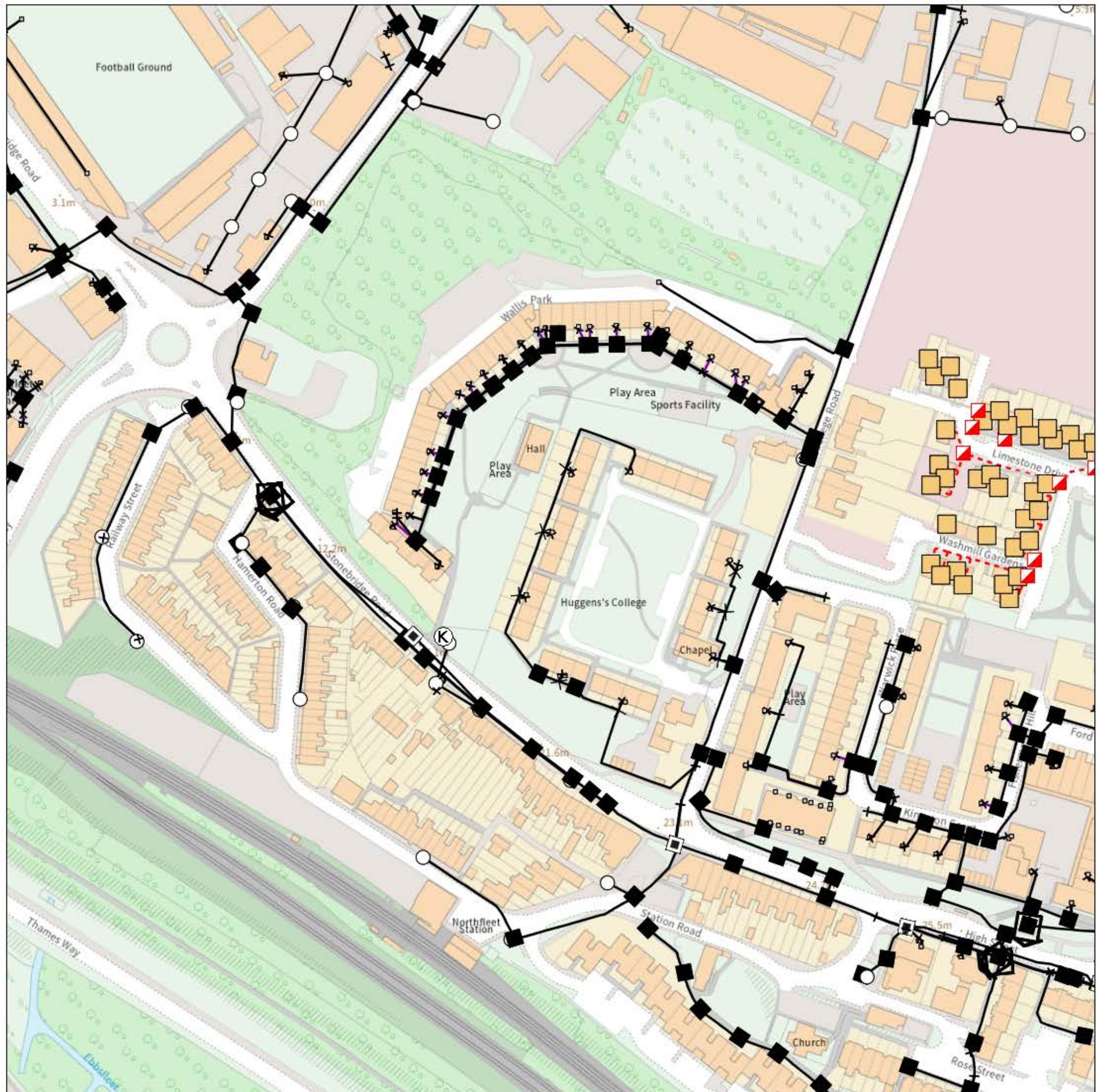
6.4 TELECOMMUNICATIONS

It is anticipated that the proposed development will not require diversion of existing telecommunication or cable services, based on the information contained within the asset record information obtained from the utility supply provider.

APPENDIX 1

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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Controller of Her Majesty's Stationary Office
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KEY TO BT SYMBOLS

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

BT Ref : VRG12102B

Map Reference : (centre) TQ6166274620

Easting/Northing : (centre) 561662,174620

Issued : 06/12/2023 12:10:58

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

APPENDIX 2

National Grid

Our Ref: 31715905 Huggens College

Thursday, 30 November 2023

Jeff Fuller
Suite 29 Level 6 New England House New England Street

East Sussex
BN1 4GH

National Grid House
Warwick Technology Park
Gallows Hill, Warwick
CV34 6DA

Electricity Emergency Number:
0800 40 40 90*
*Available 24 hours, 7 days/week.
Calls may be recorded and monitored.
www.nationalgrid.com

Asset Protection
Gas Transmission
National Grid
Warwick
Email: assetprotection@nationalgrid.com

National Grid Electricity – No Assets Affected

Dear Sir/ Madam,

An assessment has been carried out with respect to NGET apparatus and the proposed work location. Based on the search area entered in the LSBUD system for assessment the search area has been found to not affect any NGET apparatus.

Please note this response and any attached map(s) are valid for 28 days

Yours sincerely

Asset Protection Team

Your Responsibilities and Obligations

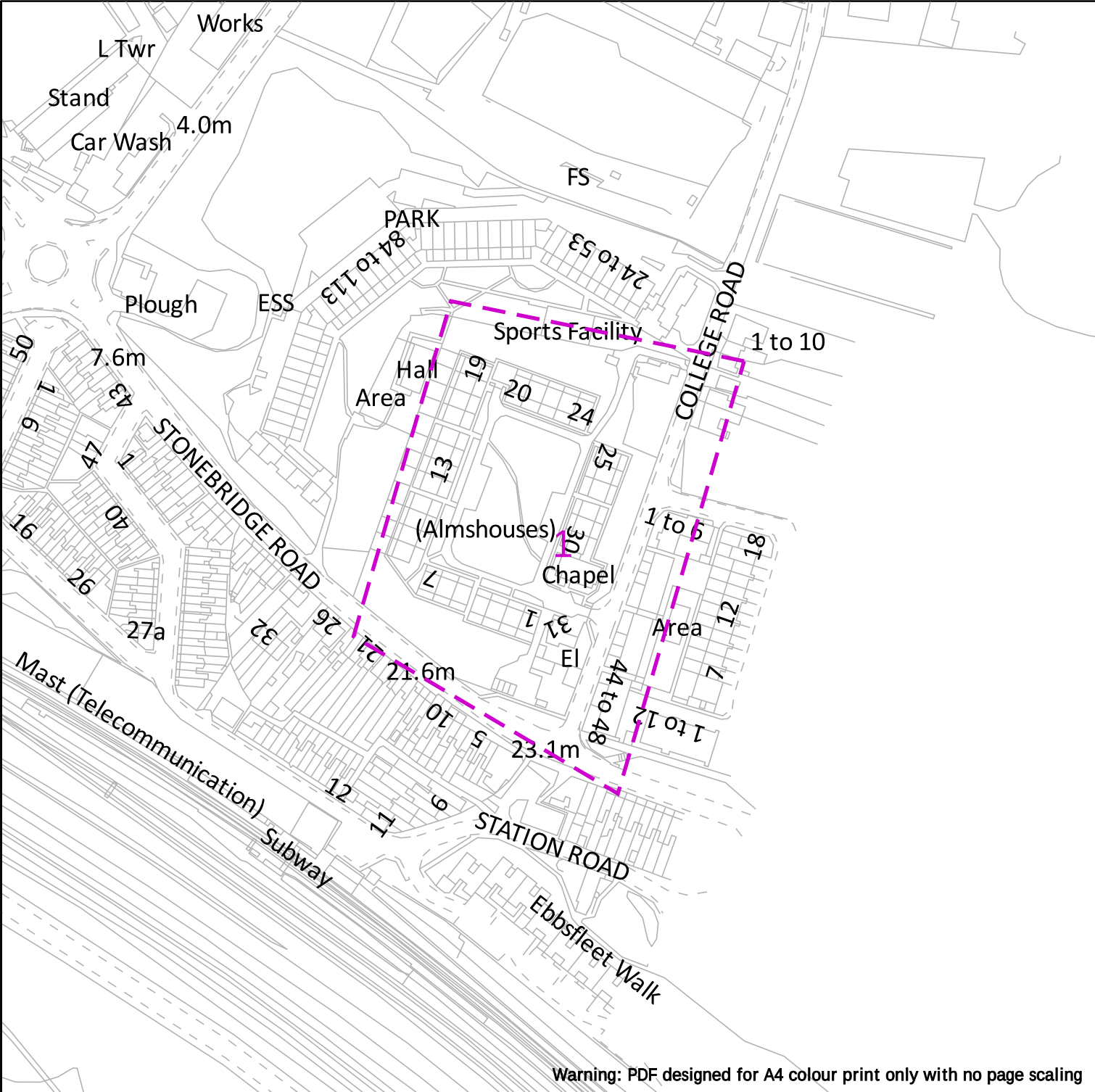
It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid Electricity Transmission plc's apparatus, as legally required including under the Construction (Design and Management) Regulations 2015.

The assessment solely relates to the physical apparatus of National Grid Electricity Transmission plc (NGET)
It does **NOT** cover:

- Apparatus owned by other people or organisations, e.g., Cadent, other gas distribution operators, local electricity companies, other utilities, landowners etc
- Apparatus owned by National Grid Gas plc.
- NGET's legal rights and interests (such as those contained in easements or wayleaves) in or concerning the land, which restrict activity in proximity to NGET's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and/or from HM Land Registry and/or you should seek legal advice. If in doubt, contact Asset Protection.

It is **YOUR** responsibility to consider whether any of the items or factors listed above may be present or relevant and if they could be affected by your proposed activities.

NGET or its agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability, which is prohibited by law, nor does it supersede the express terms of any related agreements.



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NationalGrid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

AssetProtection@NationalGrid.com

Date Requested: 30/11/2023
Job Reference: 31715905
Site Location: 561716 174607
Requested by: Mr Jeff Fuller

Your Scheme/Reference: Huggens College

Scale: 1:2500 (When plotted at A4)

0 200

Dig Sites Area: Line:

Underground Cables

Overhead Lines

Fibre Cables

IMPORTANT NOTICES

This plan shows those pipes owned by National Grid Electricity Transmission plc in its role as a Licensed Electricity Transporter (ET). Electricity cables owned by other ETs, or otherwise privately owned, may be present in this area. Information with regards to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Ancillary equipment such as cooling systems and communication cables are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Electricity Transmission plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of cables 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 electricity apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

National Grid Electricity Emergency Number: 0800 40 40 90

Available 24 hours, 7 days/week. Calls may be recorded and monitored

EXTREME CAUTION - HIGH VOLTAGE
****RISK OF DEATH OR SERIOUS INJURY****

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ENQUIRY SUMMARY

Received Date

30/11/2023 10:35

Work Start Date

01/12/2023

Your Reference

Huggens College

Location

Centre Point: 561716 174607

X Extent:

Y Extent:

Postcode: DA119DL

Map Options

Paper Size: A4

Orientation: PORTRAIT

Scale: 1:2500

Real World Extents: 178m x 225m

Enquirer Details

Organisation Name: PJR Design Services

Contact Name: Jeff Fuller

Email Address: jeff@pjrservices.co.uk

Telephone: 01273 626247

Address: Suite 29 Level 6 New England House New England Street, , East Sussex, BN1 4GH

Enquiry Type

Planned Works

Activity Type

Development Projects

Work Types

Housing

Notes/Works Description (if supplied)

Development

Site Contact Name (if supplied)

Jeff Fuller

Site Contact Number (if supplied)

01273626247

APPENDIX 3

SGN

Our Ref: 31715905 Your Ref: Huggens College

Thursday, 30 November 2023

Jeff Fuller
Suite 29 Level 6 New England House New England Street
Brighton
East Sussex
BN1 4GH

Dear Jeff Fuller

Thank you for your enquiry dated Thursday, 30 November 2023

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

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

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

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

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

Safe digging practices in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of the mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all relevant people (direct labour or contractors) working for you on or near gas pipes.

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

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

Yours sincerely,
The Safety Admin Team
For more information, visit our Dig Safely pages on [sgn.co.uk](https://www.sgn.co.uk)
Tel: 0800 912 1722

Overview map of worksite

GTC Pipelines Ltd
P23155899

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

Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

▽

Diameter Change

↓

Material Change

Digsite:

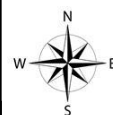
Line:

LA's

GT's

SSSIs

Area:



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

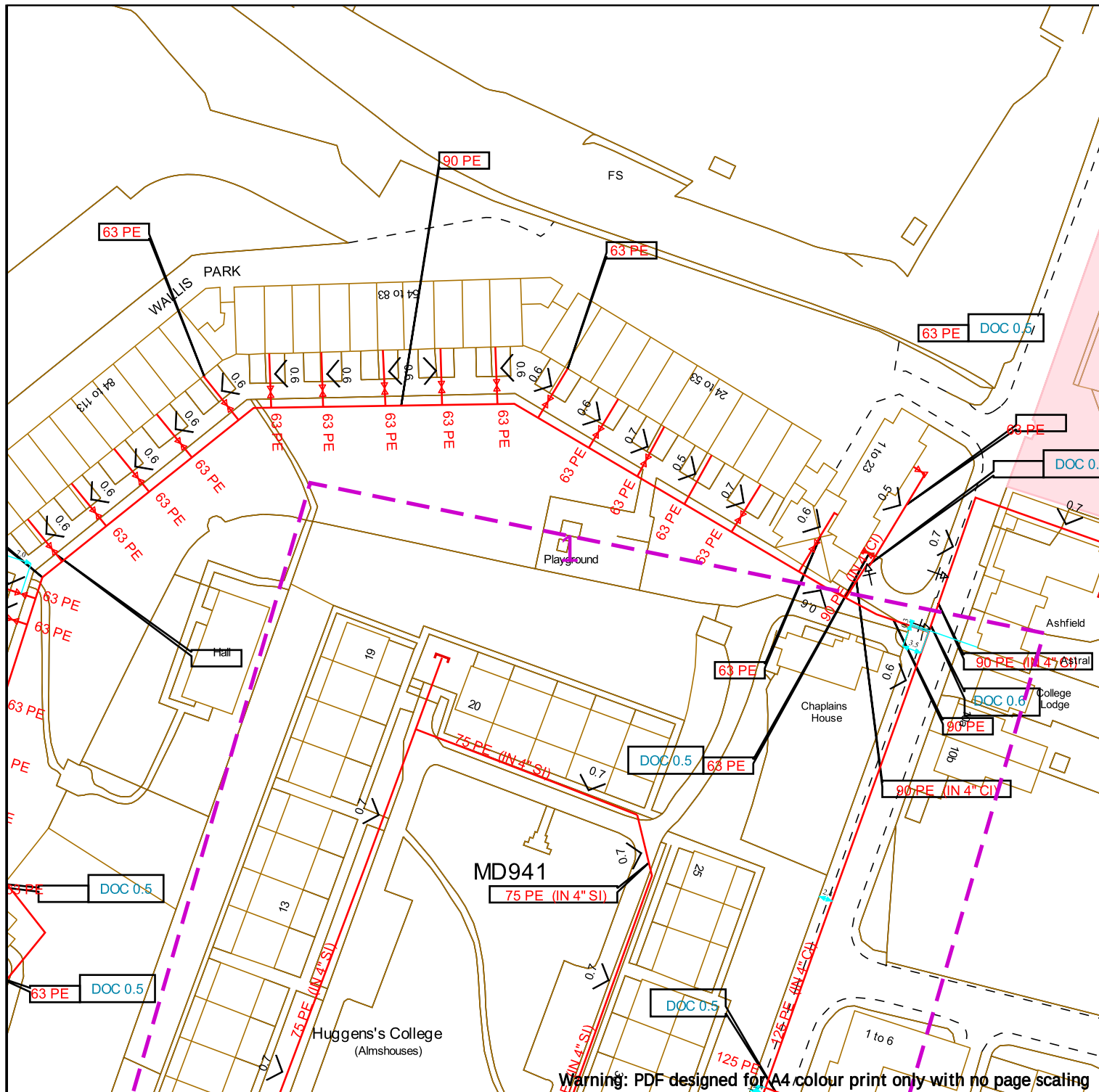


This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

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

This plan is reproduced from or based on the OS map by Scotia Gas Networks plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Southern Gas – 100044373 and Scotland Gas – 100044366.

Scale: 1:2050 (When plotted at A4)



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

Low Pressure Mains

Medium Pressure Mains

Intermediate Pressure Mains

High Pressure Mains

Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Digsite:

Line:

LA's

GT's

SSSIs

Diameter Change

Material Change

Area:



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

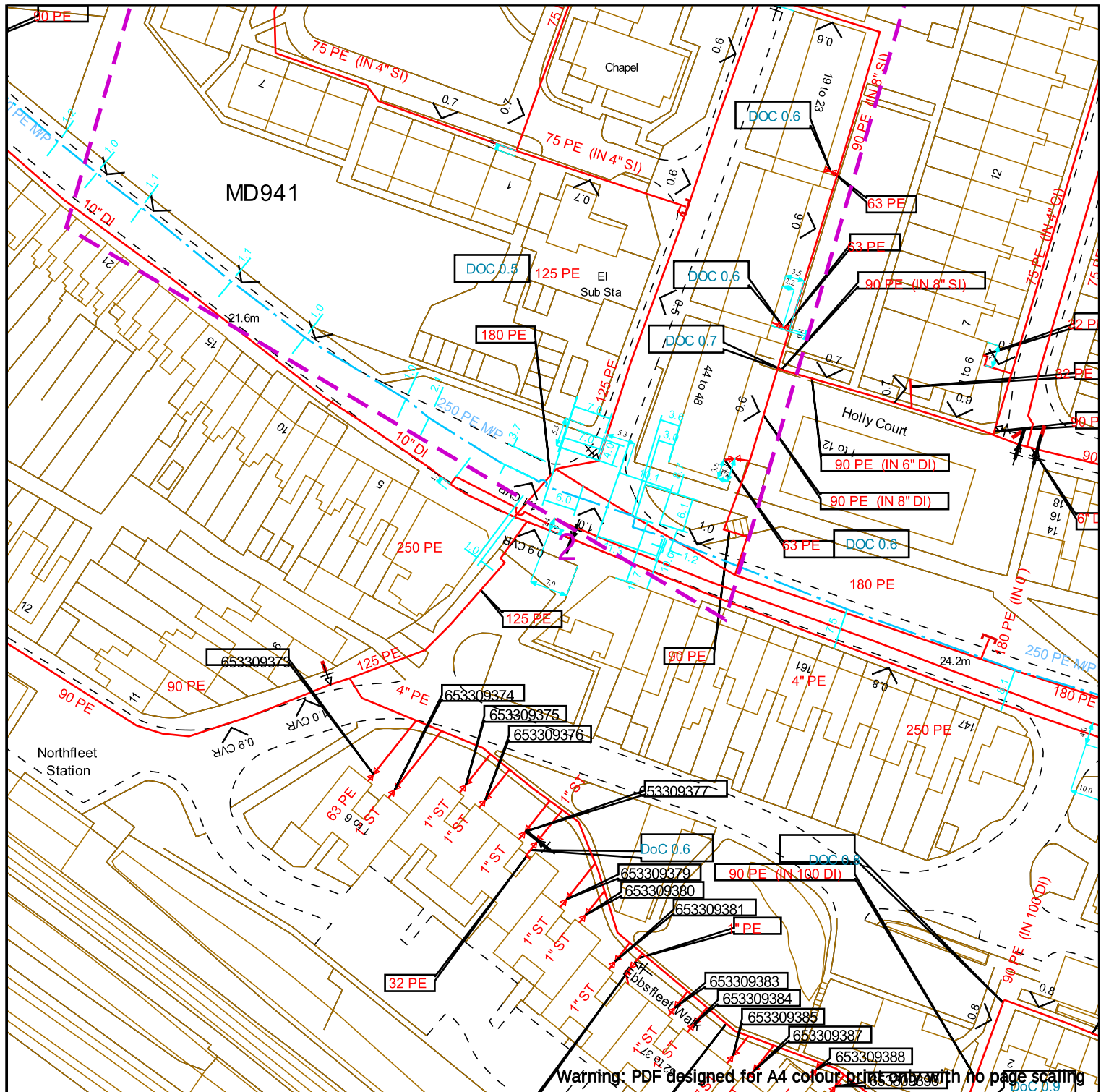


This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

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

This plan is reproduced from or based on the OS map by Scotia Gas Networks plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved. Southern Gas – 100044373 and Scotland Gas – 100044366.

Scale: 1:1000 (When plotted at A4)



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



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

Low Pressure Mains
 Medium Pressure Mains
 Intermediate Pressure Mains
 High Pressure Mains
 Some Examples Of Plant Items

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Valve

Syphon

Depth of Cover

Digsites:

Line:

Area:

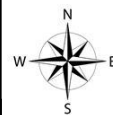
LAs

GTs

SSSIs

Diameter Change

Material Change



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



This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
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Scale: 1:1000 (When plotted at A4)



SGN

Your gas. Our network.

Dig safely

Measures to avoid injury
and damage to gas pipes



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

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

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

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

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

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

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

In a gas emergency

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

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

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

Additional reference material

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





Making an enquiry for gas mains or services maps

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

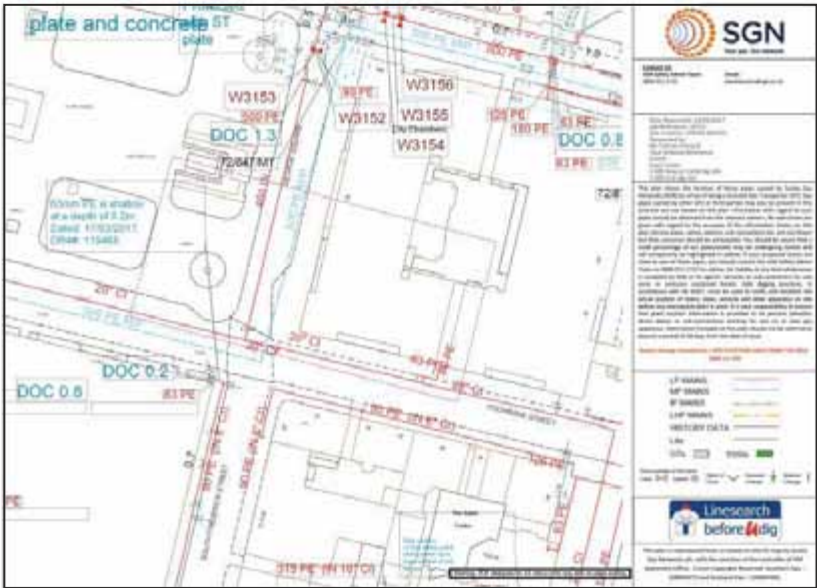
Our simple and easy to use online mapping system is available 24/7, 365 days a year.

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

What you're likely to be sent

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

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



Example of a gas map

Note: Service pipes are not shown on our maps

When working near our gas mains and services

Safe system of work

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

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

Financial

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

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

HSE

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

Minimum safe working distances

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

Surface boxes and manholes

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

Deep excavations

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



Crossing our mains or services

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

Exposed plant

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

Hot work

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

Backfilling

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

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

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

Access

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





Mechanical excavation

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

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

Major accident hazard pipelines

High pressure pipeline

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



Pipeline markers

High pressure

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

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



Wind turbines

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



Tree planting

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

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

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

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



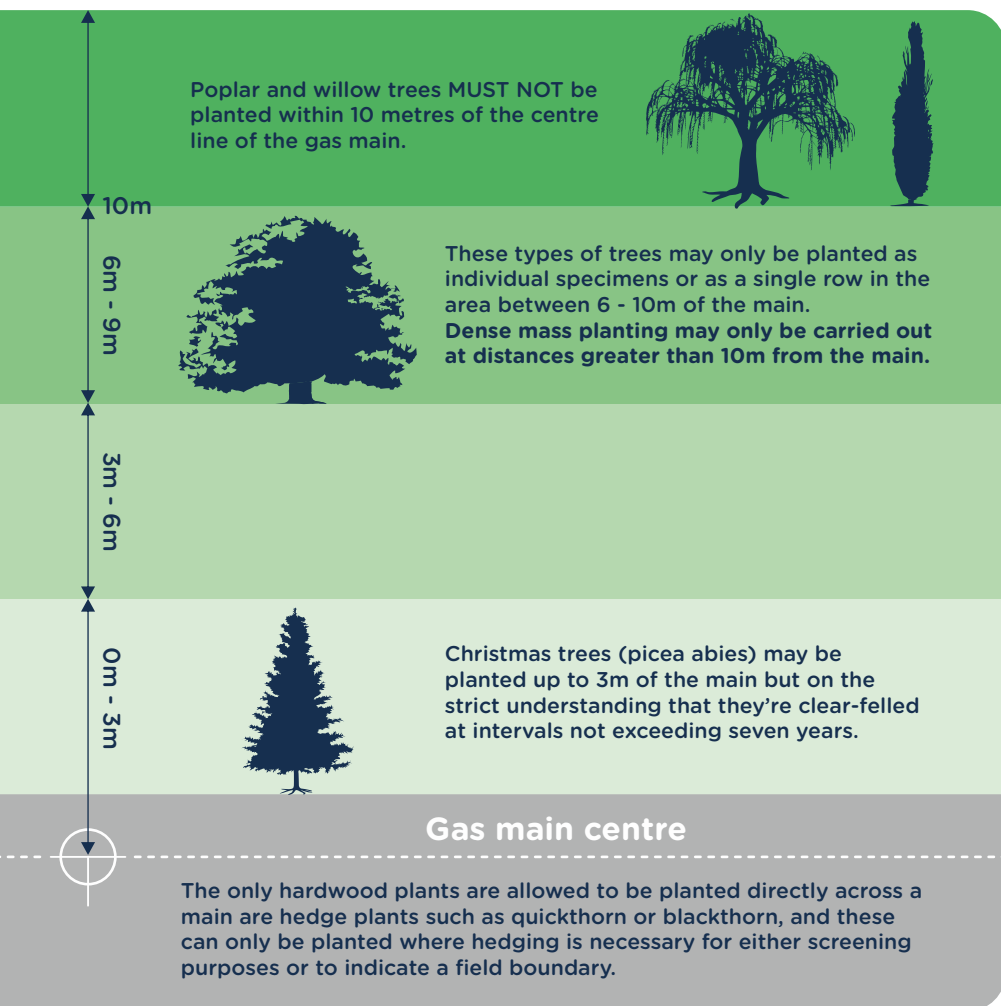
In cases where screening is required, the following are shallow rooting and may be planted close to the gas mains and services: blackthorn, broom, cotoneaster, elder, hazel, laurel, quickthorn, privet, snowberry and most ornamental shrubs.

Gas main centre

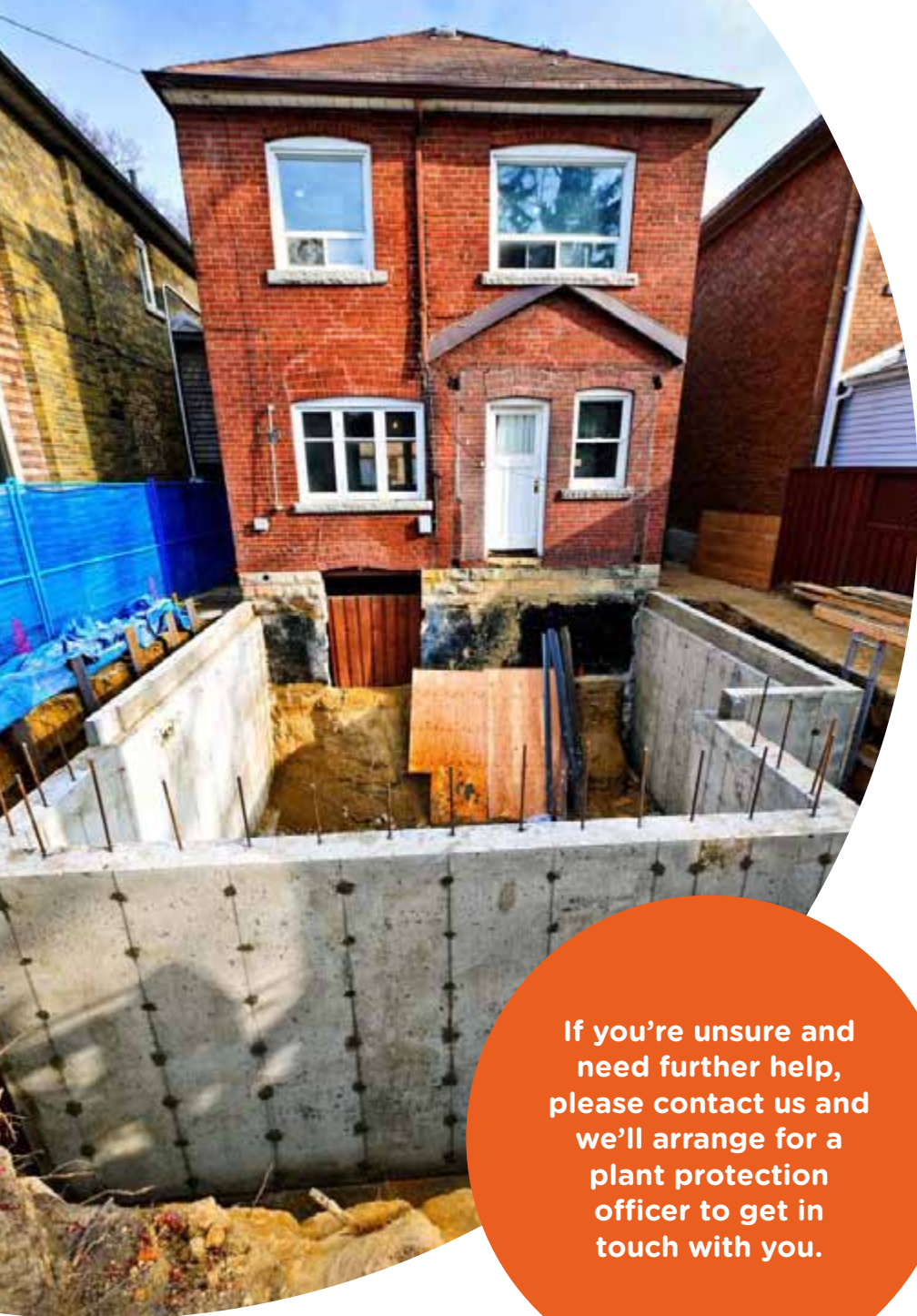
Raspberries, gooseberries and blackcurrants may be planted on the gas main, but a four metre strip, centred on the main, **MUST** be left clear at all times.

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

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



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



If you're unsure and need further help, please contact us and we'll arrange for a plant protection officer to get in touch with you.

Gas services/work in gardens

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

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



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



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



Visit our **Dig safely** pages on **sgn.co.uk**



0800 912 1722 *

*All calls are recorded and may be monitored

Map Symbols

VALVE OPEN	VALVE CLOSED	GOVERNOR	END CLOSURE	SYPHON	REDUCER	TEE
TEST POINT	CATHODIC PROTECTION	GENERAL REFERENCE	FLOW MEASURE	DIP POINT	MONO ETHYLENE GLYCOL	OILING POINT
FLOW STOP	PRESSURE MEASUREMENT	STAND PIPE	OFFICIAL MINISTRY RECORD	PURGE POINT	GAS CONDITIONER	DRAIN POINT
					LP MAINS	
SKETCH BUBBLE	DEPTH OF COVER	METER	MATERIAL CHANGE		MP MAINS	
					IP MAINS	
					LHP MAINS	
					HISTORY DATA	
					SSSI	
PIG TRAP	CROSSOVER CONNECTION	CHANGE OF DIAMETER	PIPE JOINT		CONTACT ZONE	
						LTS

Safety Advice - Valves



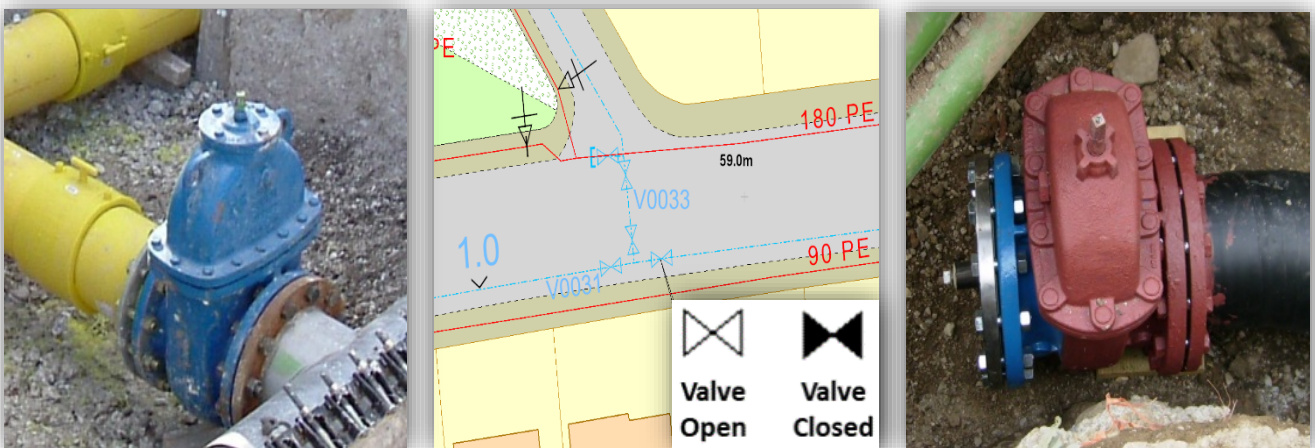
Guidance when undertaking work near gas valves in our network areas

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

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

Identifying gas valves

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



What should you do?

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

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

Contact details

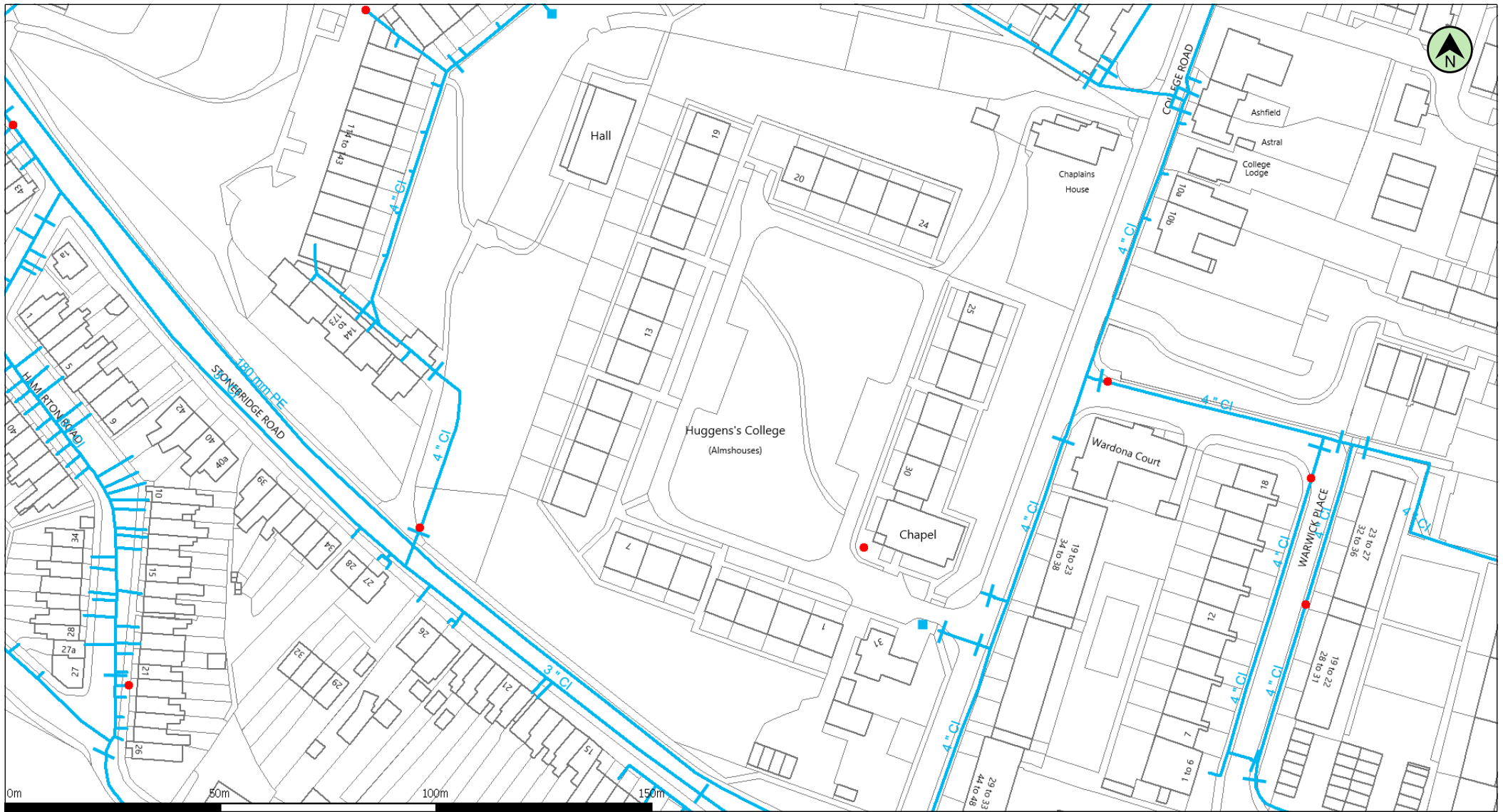
If you require further information or need assistance please contact us:

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

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

APPENDIX 4

Southern Water

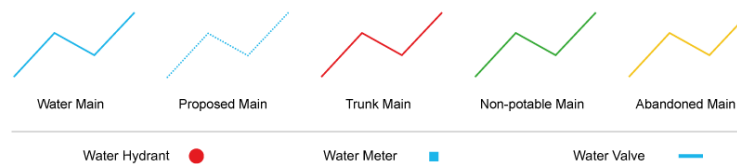


(c) Crown copyright and database rights 2023 Ordnance Survey 100031673 Date: 30/11/23 Scale: 1:1250 Map Centre: 561691,174603 Data updated: 21/11/23 Our Ref: 1335337 - 1 Clean Water Plan A4

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2023 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

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



jeff@pjrservices.co.uk

Huggens College



APPENDIX 5

UKPN

Our Ref: 31715905 Your Ref: Huggens College

Thursday, 30 November 2023

Jeff Fuller
Suite 29 Level 6 New England House New England Street
Brighton
East Sussex
BN1 4GH

Dear Jeff Fuller

Thank you for contacting us regarding UK Power Networks equipment at the above site. I have enclosed a copy of our records which show the electrical lines and/or electrical plant. I hope you find the information useful.

I have also enclosed a fact sheet which contains important information regarding the use of our plans and working around our equipment. Safety around our equipment is our number one priority so please ensure you have completed all workplace risk assessments before you begin any works.

Should your excavation affect our Extra High Voltage equipment (6.6 KV, 22 KV, 33 KV or 132 KV), please contact us to obtain a copy of the primary route drawings and associated cross sections.

If you have any further queries do not hesitate to contact us.

Plan Provision
0800 056 5866



This information is made available to you on the terms set out below. If you do not accept the terms of use set out in this fact sheet please do not use the plans and return them to UK Power Networks.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise how for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. The information about UK Power Networks electrical plant and/or electric lines provided to you belongs to and remains the property of UK Power Networks. You must not alter it in any respect.
5. The information provided to you about the electrical plant and/or electric lines depicted on the plans may NOT be a complete record of such apparatus belonging to UK Power Networks. The information provided relates to electric lines and/or electrical plant belonging to UK Power Networks that it believes to be present but the plans are not definitive: other electric lines and/or electrical plant may be present and that may or may not belong to UK Power Networks.
6. Other apparatus not belonging to UK Power Networks is not shown on the plan. It is your responsibility to make your own enquiries elsewhere to discover whether apparatus belonging to others is present. It would be prudent to assume that other apparatus is present.
7. You are responsible for ensuring that the information made available to you is passed to those acting on your behalf and that all such persons are made aware of the contents of this letter.
8. Because the information provided to you may not be accurate, you are recommended to ascertain the presence of UK Power Networks electric lines and/or electrical plant by the digging of trial holes. Trial holes should be dug by hand only.

Excavations must be carried out in line with the Health and Safety Executive guidance document HSG 47. We will not undertake this work. A copy of HSG 47 can be obtained from the Health and Safety Executives website.

All electric lines discovered must be considered LIVE and DANGEROUS at all times and must not be cut, resited, suspended, bent or interfered with unless specially authorised by UK Power Networks.

The electric line and electrical plant belonging to UK Power Networks remains so even when made dead and abandoned and any such electric line and/or electrical plant exposed shall be reported to UK Power Networks.

Where your works are likely to affect our electric lines and/or electrical plant an estimate of the price of any protective /diversionary works can be prepared by UK Power Networks Branch at Metropolitan House, Darkes Lane, Potters Bar, Herts. , EN6 1AG, telephone no. 0845 2340040



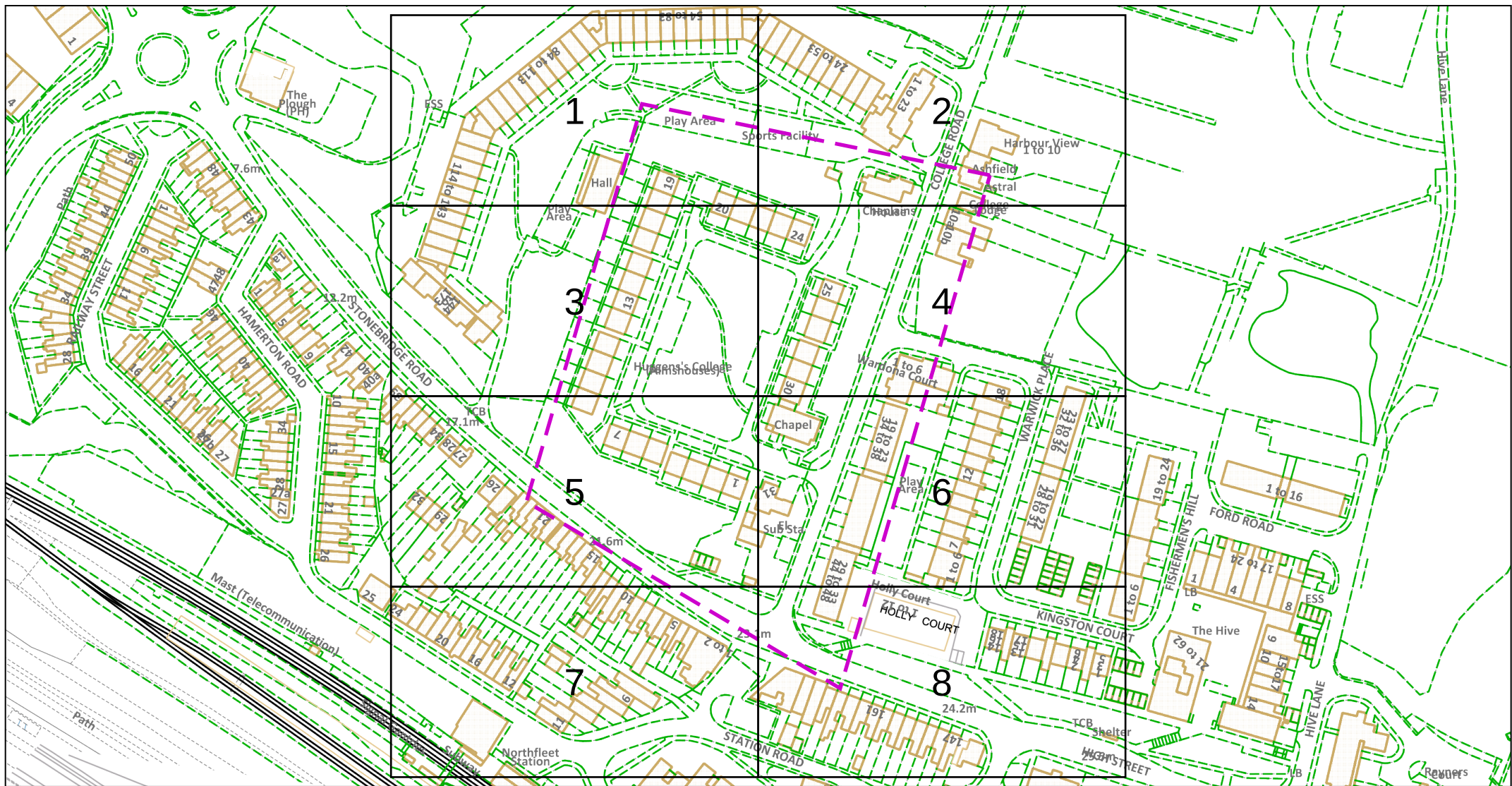
- 9 Any work near to any overhead electricity lines must be carried out by you in accordance with the Health and Safety Executive guidance document GS6 and the Electricity at Work Regulations.

The GS6 Recommendations may be purchased from HSE Books or downloaded from the Energy Networks Association's website.

If given a reasonable period of prior notice UK Power Networks will attend on site without charge to advise how and where "goal posts" should be erected. If you wish to use this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday.

10. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
11. If in carrying out work on land in, on, under or over which is installed an electric line and/or electrical plant that belongs to UK Power Networks you and/or anyone working on your behalf damages (however slightly) that apparatus you must inform immediately UK Power Networks by our emergency 24 hour three digit telephone number **105** providing;
- your name, address and telephone number;
 - the date, time and place at which such damage was caused;
 - a description of the electric line and/or electrical plant to which damage was caused;
 - the name of the person whom it appears to you is responsible for that damage;
 - the nature of the damage.
12. The expression "UK Power Networks" includes UK Power Networks (EPN) plc, UK Power Networks (LPN) plc, UK Power Networks (SEPN) plc, UK Power Networks and any of their successors and predecessors in title.





Dig Sites Area:  Line: 

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.



This plan must be used with the attached 'Symbols' document.

Date Requested: 30/11/2023
Job Reference: 31715905
Site Location: 561626 174472
Requested by:
Mr Jeff Fuller
Your Scheme/Reference:
Huggens College
Scale: 1:2050 (When plotted at A4)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information provided must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
8. Please be aware the Low Voltage Overhead power lines are not currently displayed for the Eastern Region via this service, if you require records on the location of these please contact our Plan Provision team directly via plans@ukpowernetworks.co.uk.

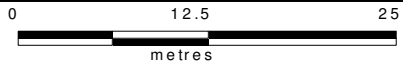
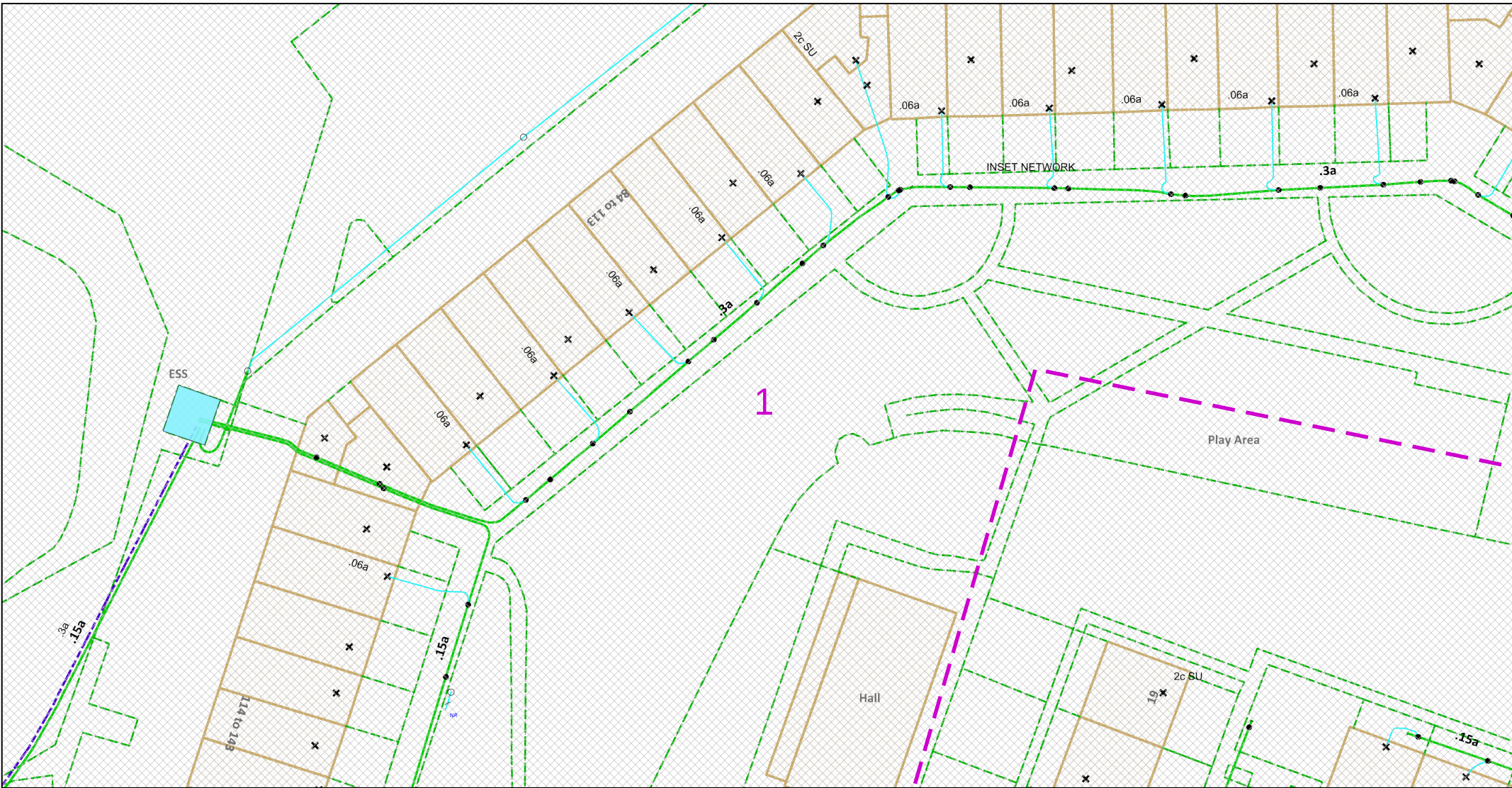
1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.
6. Please Note: The Overview map does not display UK Power Networks electricity network and should not be used for the location of UK Power Networks assets. For detail of the electricity network please view the relevant page as highlighted in the Overview map.

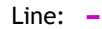
IF IN DOUBT - ASK! PHONE
0800 056 5866
EMERGENCY - If you damage a
cable or line
Phone 0800 783 8838 (24hrs)
URGENTLY



ALWAYS LOOK UP
BEFORE
YOU START WORK
Refer to HSE Guidance
note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.



Dig Sites Area:  Line: 

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.

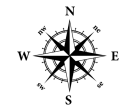
This plan must be used with the attached 'Symbols' document.

Date Requested: 30/11/2023
Job Reference: 31715905
Site Location: 561626 174472
Requested by: Mr Jeff Fuller

Your Scheme/Reference:
Huggens College
Scale: 1:500 (When plotted at A4)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.
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1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
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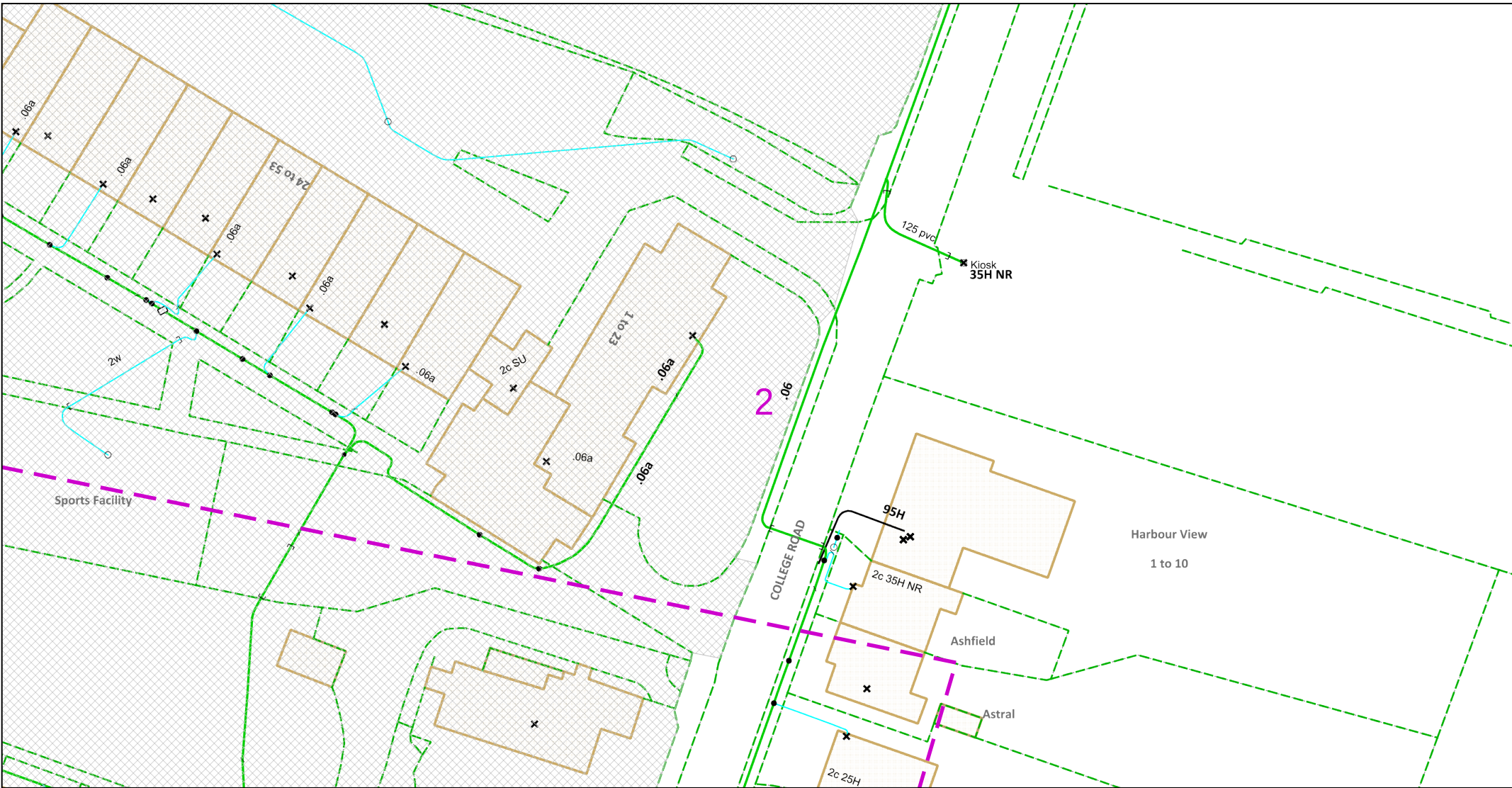


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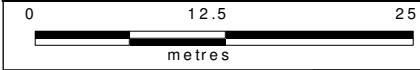
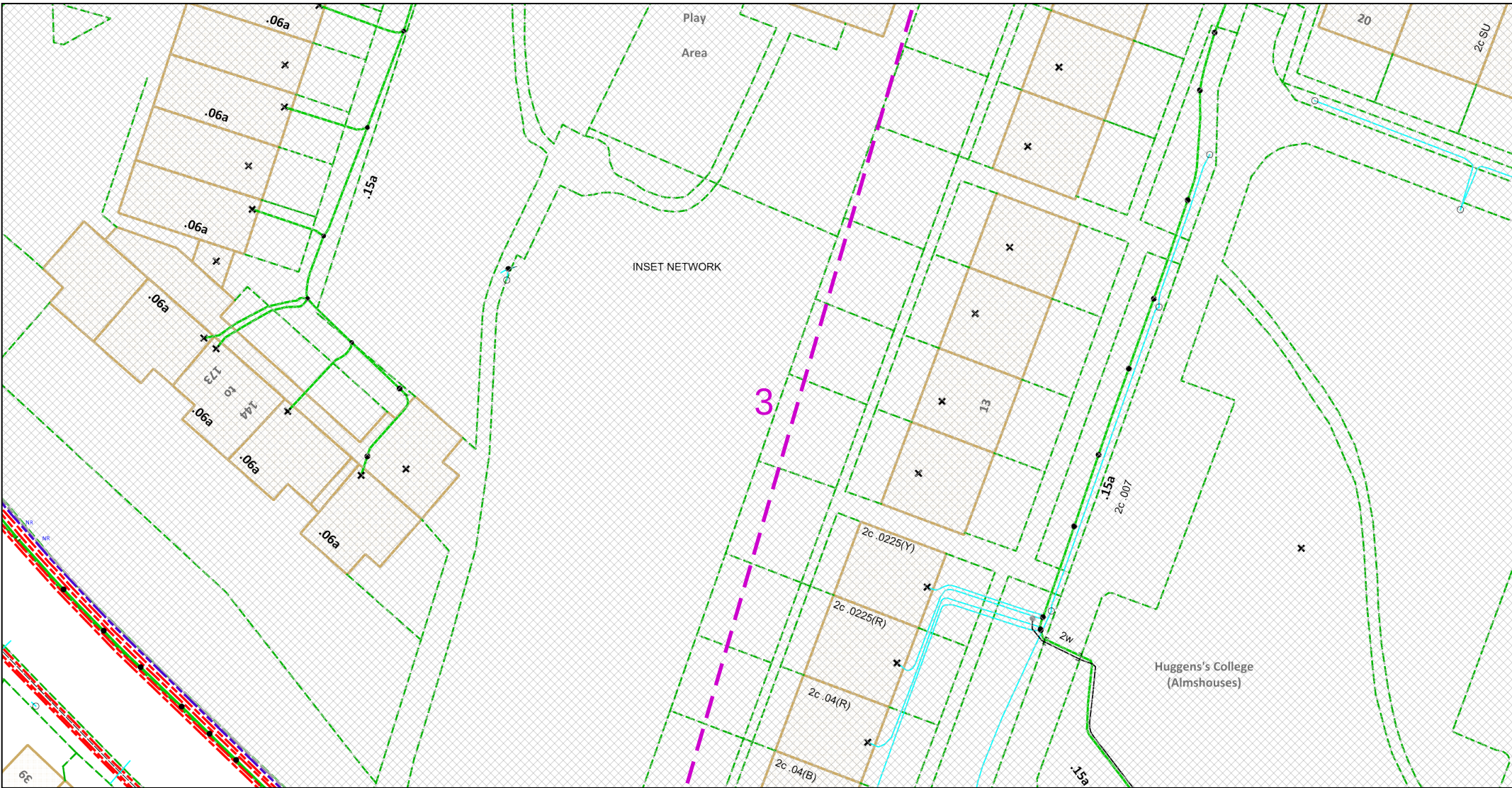


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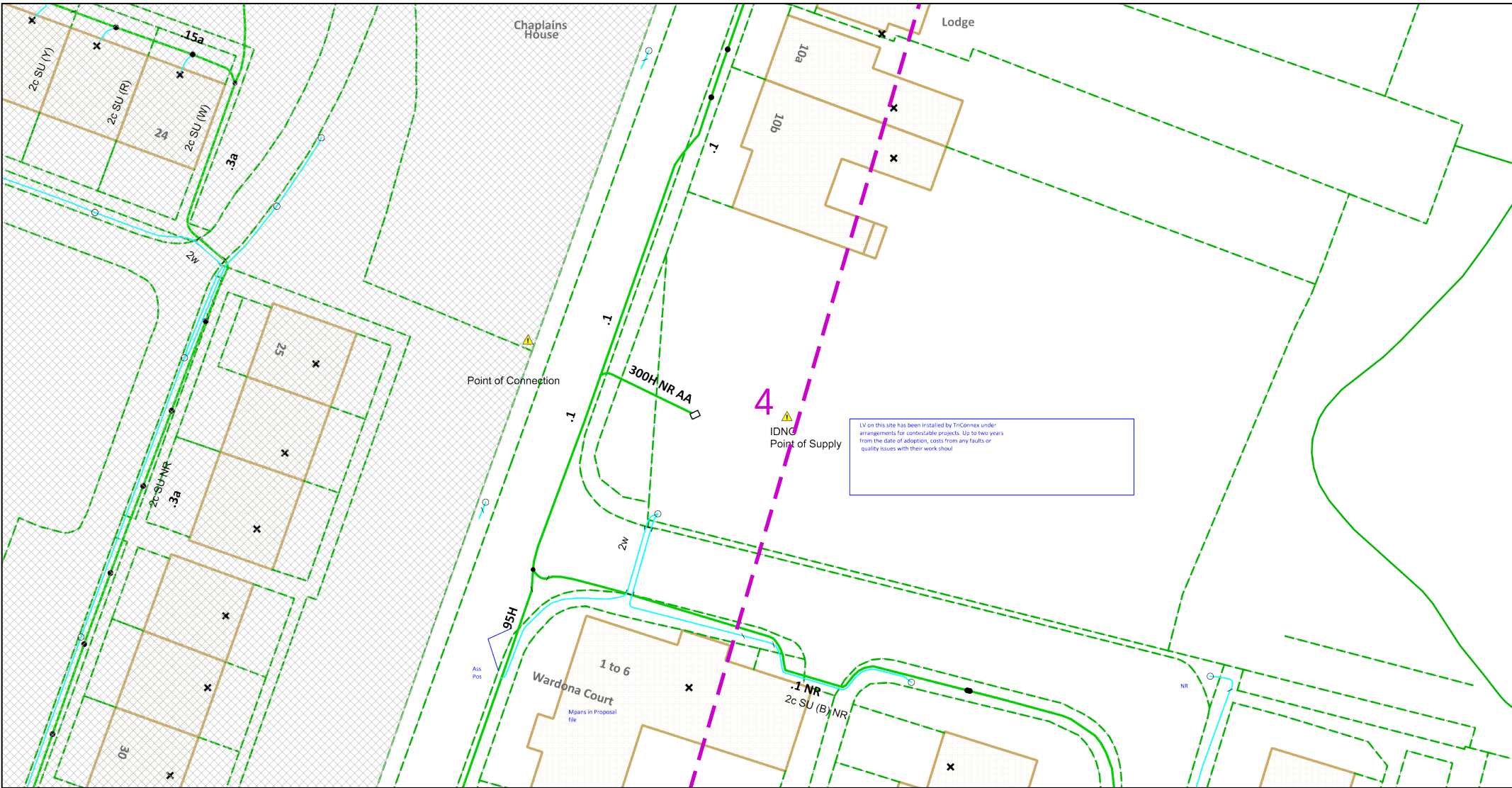
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LV on this site has been installed by Triccnex under arrangements for contestable projects. Up to two years from the date of adoption, costs from any faults or quality issues with their work shoul



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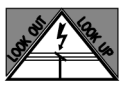
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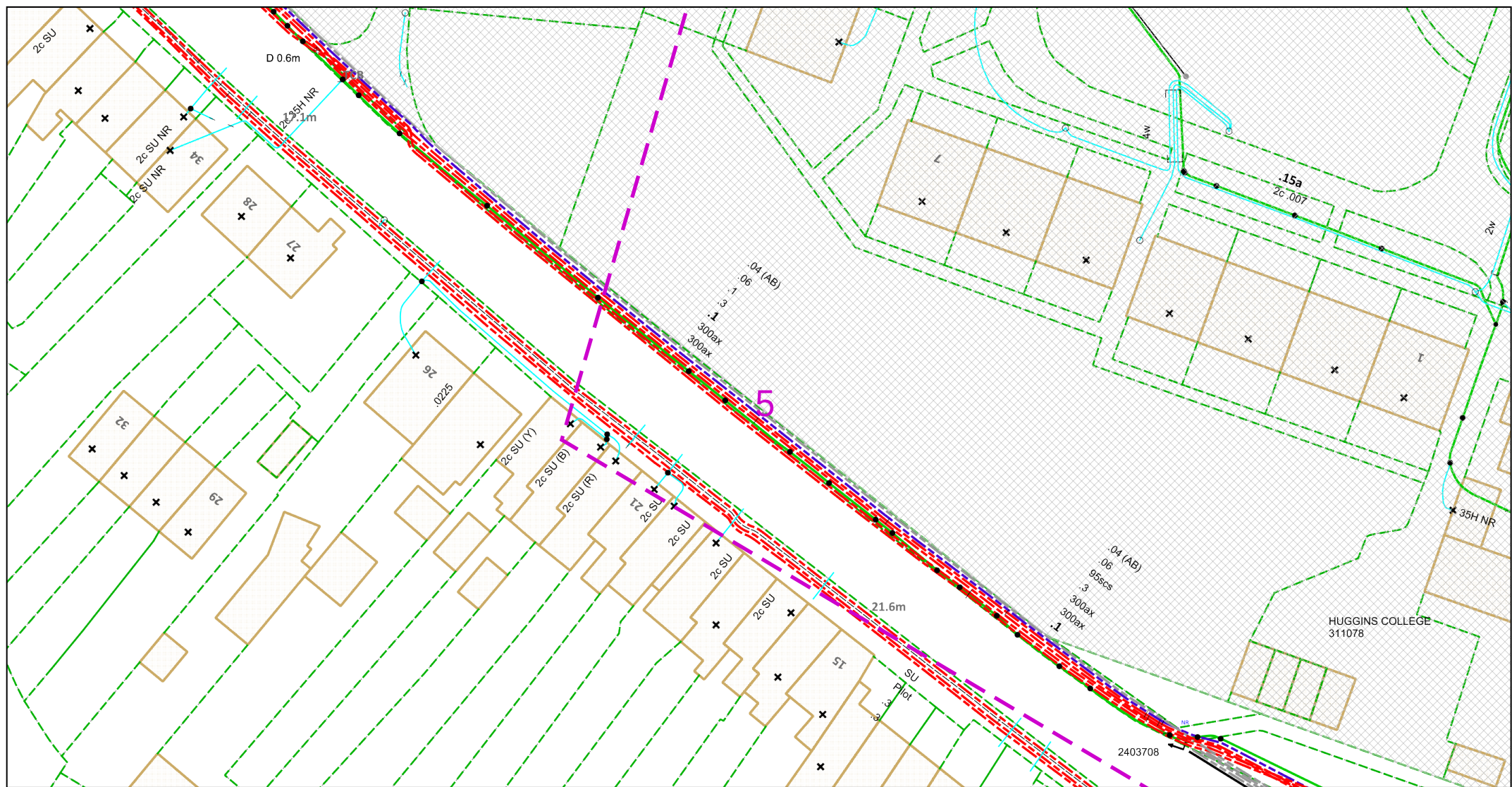


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Your Scheme/Reference:

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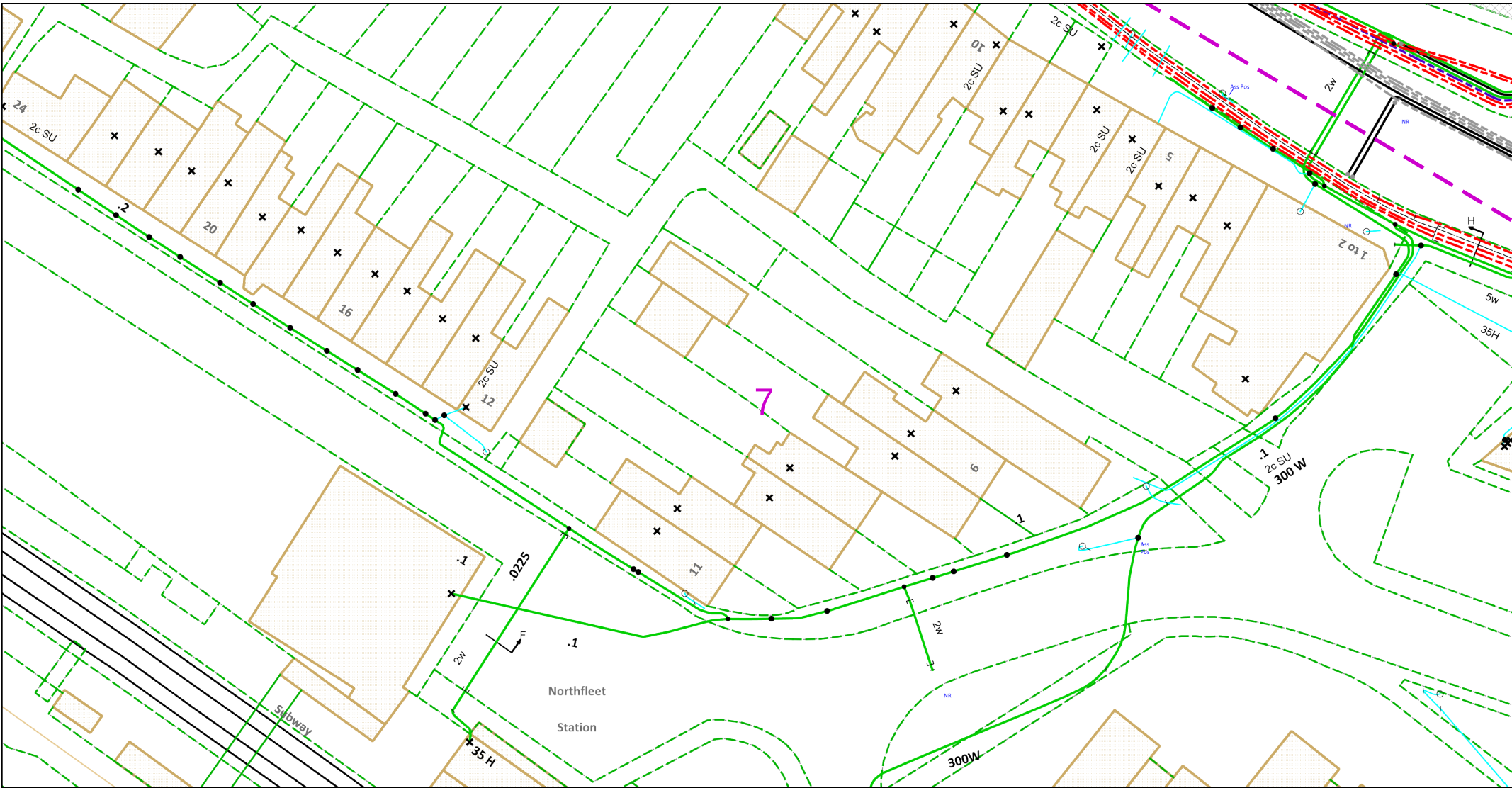


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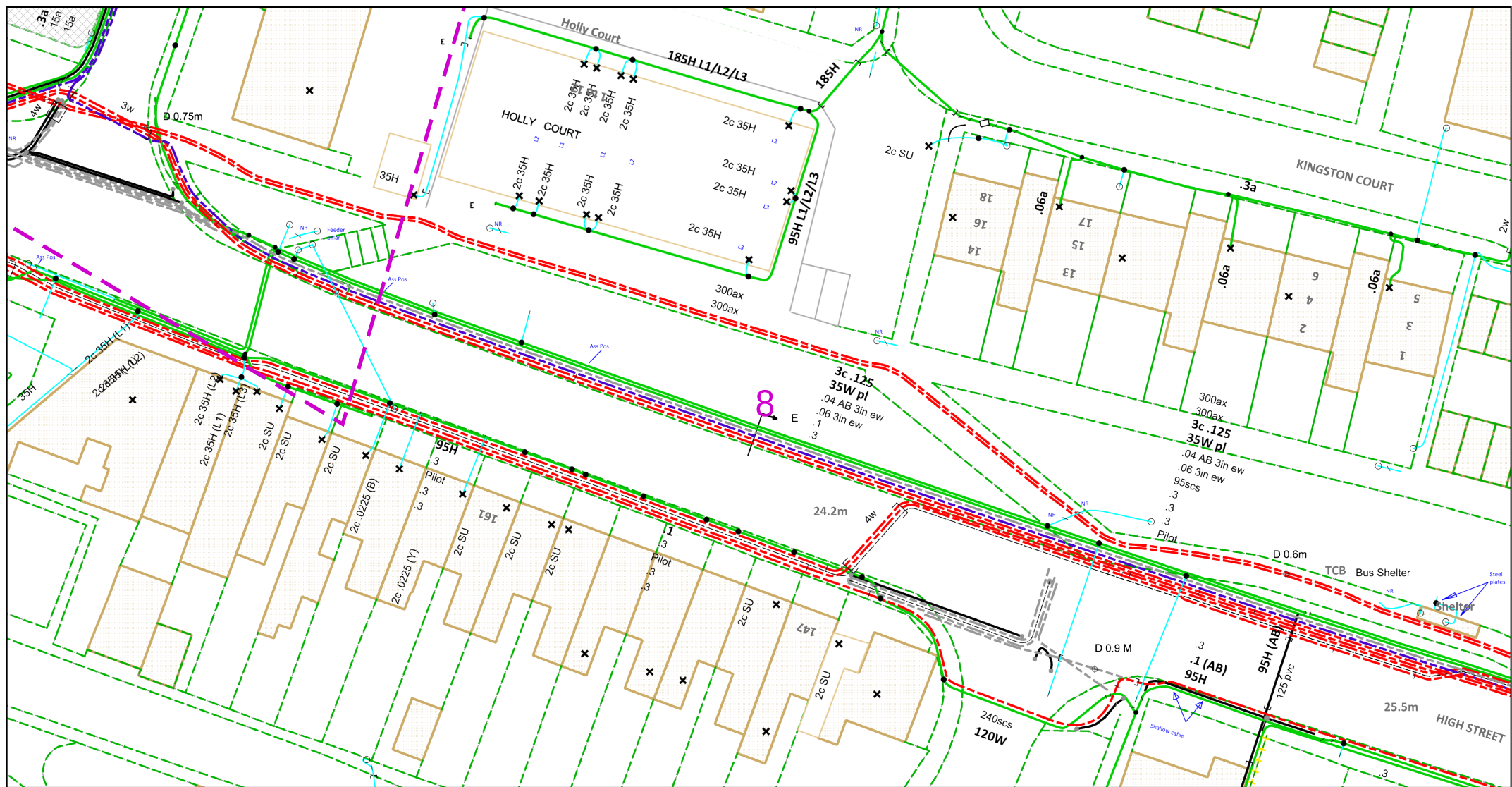


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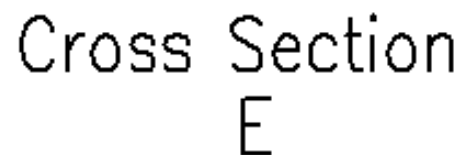


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cross section

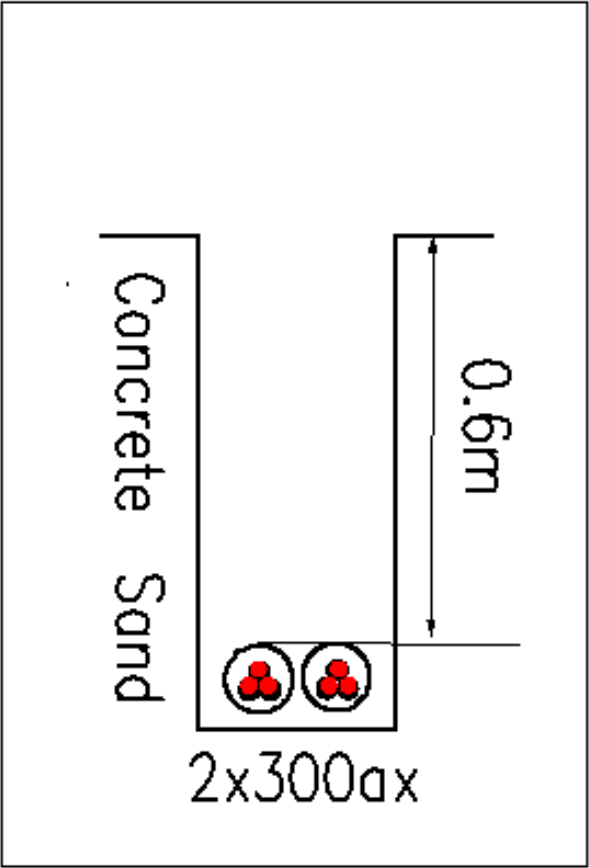


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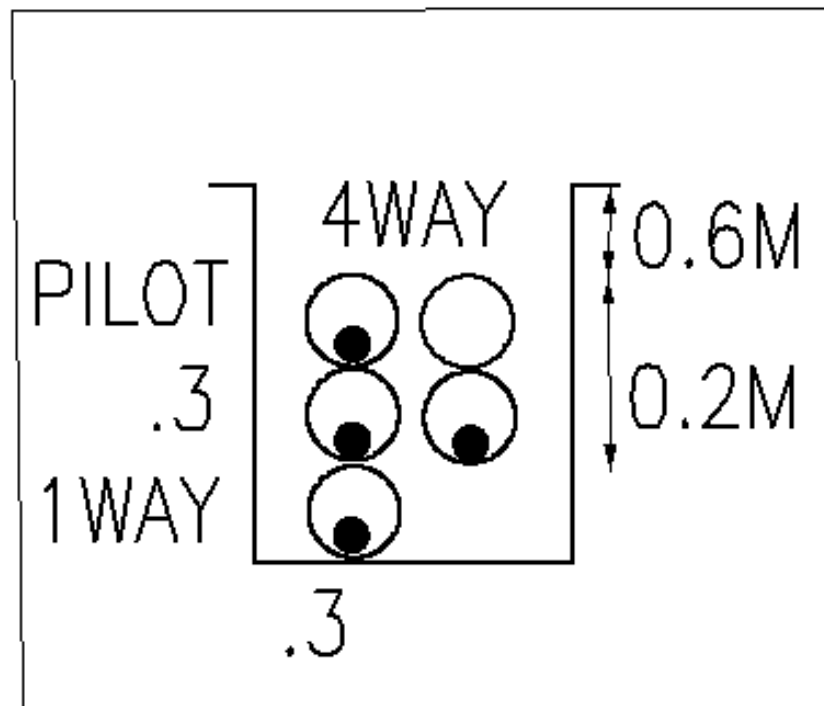
Cross Section : 2403708



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Cross Section : H



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3. It is essential that trial holes are carefully made avoiding the use of mechanical tools or picks until the exact location of all the cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp column and street sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power Networks.
6. The information proved must be given to all people working near UK Power Networks plant and equipment. Do not use plans more than 3 months after the issue date for excavation purposes.
7. Please be aware that electric cables/lines belonging to other owners of licensed electricity distribution systems may be present and it is your responsibility to identify their location.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.
2. UK Power Networks does not exclude or limit its liability if it causes the death of any persons or causes personal injury to a person.
3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
4. This plan has been provided to you on the basis of the terms of use set out in the covering letter that accompanies this plan. If you do not accept and/or do not understand the terms of use set out in the covering letter you must not use the plan and must return it to the sender of the letter.
5. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

IF IN DOUBT - ASK! PHONE
0800 056 5866
EMERGENCY - If you damage
a cable or line
Phone 0800 783 8838 (24 hrs)
URGENTLY



ALWAYS LOOK UP BEFORE
YOU START WORK
Refer to HSE Guidance note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.

UK Power Networks Feedback Tool

Please help UK Power Networks improve the accuracy of their network records and help make it safer for all those working around them in future.

All you need to do is:

1. Use your phone camera to scan the QR code:
2. Provide feedback on what you have found on site (good or bad)
3. Upload a photo if needed



Thank you for making the area a safer place to dig.

UK Power Networks, working with LSBUD



Be Bright

Stay Safe

Stop!
Think before
you dig!



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

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

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

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

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

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



LINES CAN BE
RE-ENERGISED
AT ANY TIME



400,000 VOLTS

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

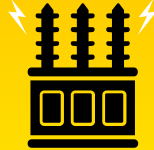
Be Bright

Stay Safe



**RUBBER BOOTS
WILL NOT PROTECT YOU!**

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



National power cut helpline

**POWER CUT?
CALL 105**

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

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



REMEMBER
ELECTRICITY
CAN
JUMP GAPS



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



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



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



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



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

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

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

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



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



Keep well away - Electricity can kill



Remember:

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



How can we help?

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

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

HSG85 - Electricity at Work – Safe Working Practices

GS6 - Avoiding Danger from Overhead Power Lines

HSG47 - Avoiding Danger from Underground Services

What to do in an emergency

If a mains electricity cable is damaged:

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



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

If you are unsure who your network operator is then please visit
www.energynetworks.org



Be Bright

Stay Safe

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

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

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

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

**For cable plans visit
www.linesearchbeforeudig.co.uk
or www.ukpowernetworks.co.uk**

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

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

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

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

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

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

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

NATIONAL POWER CUT HELPLINE

**POWER CUT?
CALL 105**



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



Stop! Think before you dig!

#bebrightstaysafe



@UKPowerNetworks



/ukpowernetworks

National power cut helpline

**POWER CUT?
CALL 105**



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

For safety advice about overhead power lines,
disconnections and general enquiries, go to:
www.ukpowernetworks.co.uk

To request your **FREE** vehicle cab stickers visit
www.ukpowernetworks.co.uk/internet/en/safety/

If you are unsure who your network
operator is then please visit
www.energynetworks.org

 what3words



Scan the QR code on your
phone to get the app

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



**UK
Power
Networks**
Delivering your electricity



Network Records NetMAP Symbols Booklet - South East England

Version 1.2

Released October 2010

Always check with your local Network Records office or the UK Power Networks server to ensure that you are using the most up to date copy of this booklet - Tel: 08000 565866

Index:-

Page no:	Contents:
1	Guidance notes.
2	The area covered by this guide.
3	<u>1:500 (& 1:1250) view</u>
	Scenery.
4	Scenery (UK Power Networks use only).
7	Primary distribution line route (EHV).
8	Secondary distribution cables (HV/LV).
9	Secondary distribution cable terminology.
12	Cable ducts.
13	Poles.
14	EHV, HV and LV sites.
15	Joints.
16	Street furniture
17	Miscellaneous.
18	Connectivity.
19	Abbreviations.
20	Cable phasing.
21	Operational status colours.
22	<u>1:2500 view</u> (UK Power Networks use only).
	Notes.
23	Primary distribution line route.
24	Secondary distribution cables.
25	Primary and secondary sites.
27	Switch types.
28	<u>1:10000 view</u> (UK Power Networks use only).
	Notes.
29	Secondary distribution cables.
30	Primary and secondary sites.

Guidance notes.

Important notice:

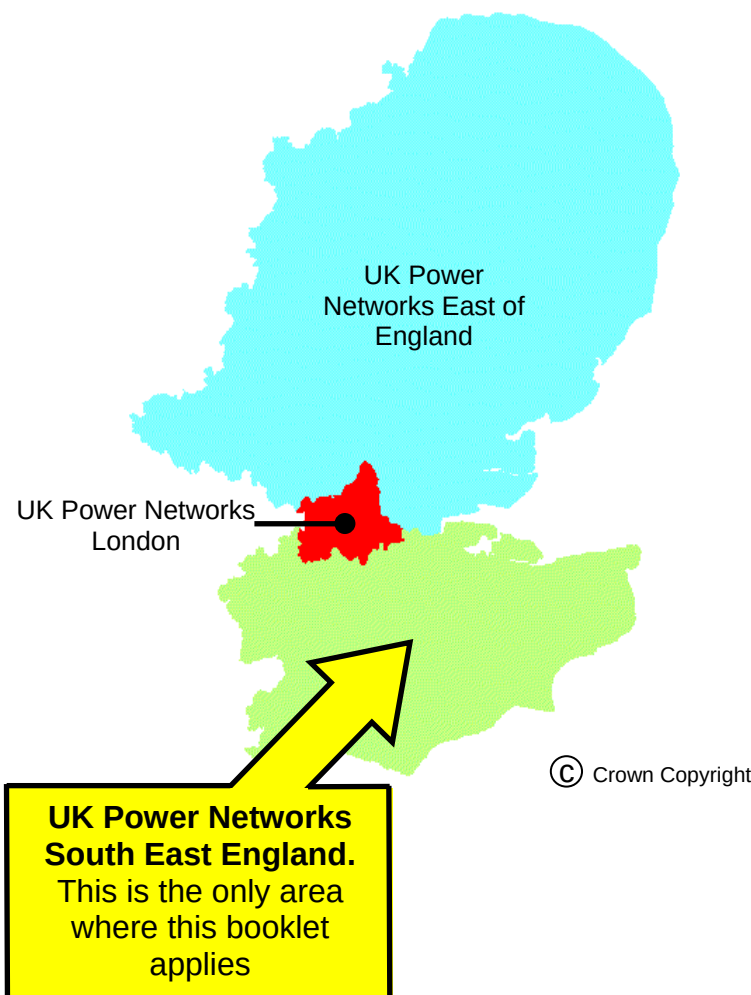
If you do not understand the NetMAP record that you are using, please contact the UK Power Networks Network Records team for guidance on
Tel: 08000 565866.

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



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

The area covered by this guide:



1:500 (& 1:1250) view

Scenery

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

Scenery for UK Power Networks use only - boxed in red

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

Scenery for UK Power Networks use only - boxed in red

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

Scenery for UK Power Networks use only - boxed in red

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

Primary distribution line route (1:500 view)

NetMAP system	Description
	275–400kV National Grid route
	132kV cable route
	33kV cable route
Approximate routes only – see separate record	

Secondary distribution cables (1:500 view)

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

Secondary distribution cable terminology (1:500 view)

HV underground

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

HV overhead

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

Overhead line materials

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

section continued on next page

Secondary distribution cable terminology continued (1:500 view)

LV underground mains and services

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

LV overhead mains and services

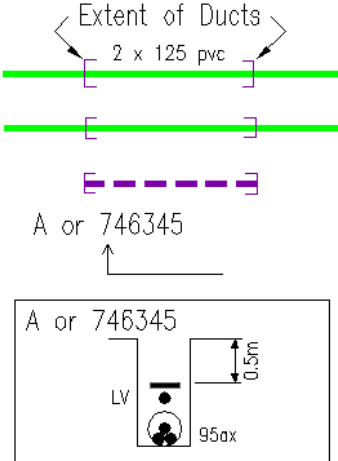
(no text)	Bare open wire
ABC	Aerial bundled (or bunched) conductor
cat	ABC (aerial bundled or bunched conductor) with supporting strain wire
pvc	PVC covered open wire
c/c	Concentric cores
H	Hybrid – copper neutral with aluminium phase conductor
ue	Under eaves – hessian covered lead cable
vir	Vulcanised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

section continued on next page

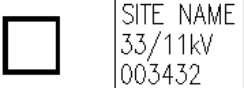
Secondary distribution cable terminology continued (1:500 view)

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

Cable ducts (1:500 view)

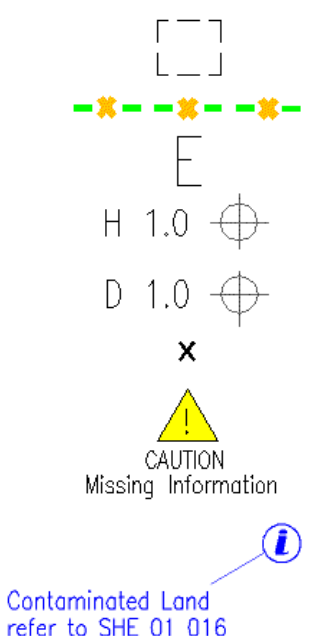
NetMAP system	Description
	Duct 2 way Duct 1 way (no text) Spare duct Cross section arrow Cross section showing: duct, tile depth, tile, single LV cable and HV Triplex cable
Duct materials	
(no text) pvc st asb fbr wi cp t/e	Earthenware PVC Steel Asbestos Fibre Iron Concrete pipe Trenchless excavation

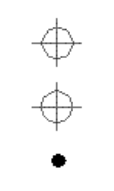
Poles (1:500 view)	
NetMAP system	Description
       	Section pole Pole number (unique) Single leg H pole 3 member 4 member Strut Pole support (stay) Flying stay Tower 33kV to 400kV

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

Joints (1:500 view)	
NetMAP system	Description
      	Straight (same for HV) Pot end (same for HV) Branch (same for HV) Sleeve repair Capped end Service to LV main Under eaves service
□ .1 .15 □ R – R Y – B B – Y	Jointing phase drawing

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

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

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

Abbreviations (1:500 view)

NetMAP system	Description
NR	No record
SU	Size unknown
AB	Abandoned
(M)	PME available
VO5	Year LV linking verified
MS	Milestone
MP	Marker post
pmt	Pole mounted transformer
pl	Public lighting
TBS	Temporary builder's supply
TCB	Telephone call box
CET	Cable electronically traced
IT	Instrument traced (same as CET)
CAT	Cable avoidance tool (same as CET)
+sl	Street lighting
+sw	Switch wire
2c	2 core
PESL	Public Electricity Supply License
Added	Supplied by SPN
Excluded	Not supplied by SPN
IIP	Assumed open point
VSxxxx	Vacant site
CB	Callender box

Cable phasing (1:500 view)

<u>Old core colours</u>	<u>Shown on map</u>	<u>New core colours</u>
Neutral	Neutral	Neutral
Red	R	L1
Yellow	Y	L2
Blue	B	L3
Note:- Scott is a different phasing system		

Operational status colours (1:500 view)

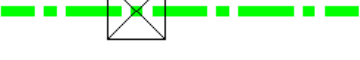
PROPOSAL ———— Symbols and cables appear in ORANGE
OUT OF SERVICE ———— Cable and joints appear in BLACK
ABANDONED ———— Cables and joints appear in GREY

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

Notes

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

Primary distribution line route (1:2500 view)

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

Secondary distribution cables (1:2500 view)

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

Primary and secondary sites (1:2500 view)

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

section continued on next page

Primary and secondary sites continued (1:2500 view)

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

Switch types (1:2500 view)

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

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

Notes

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

Secondary distribution cables (1:10000 view)

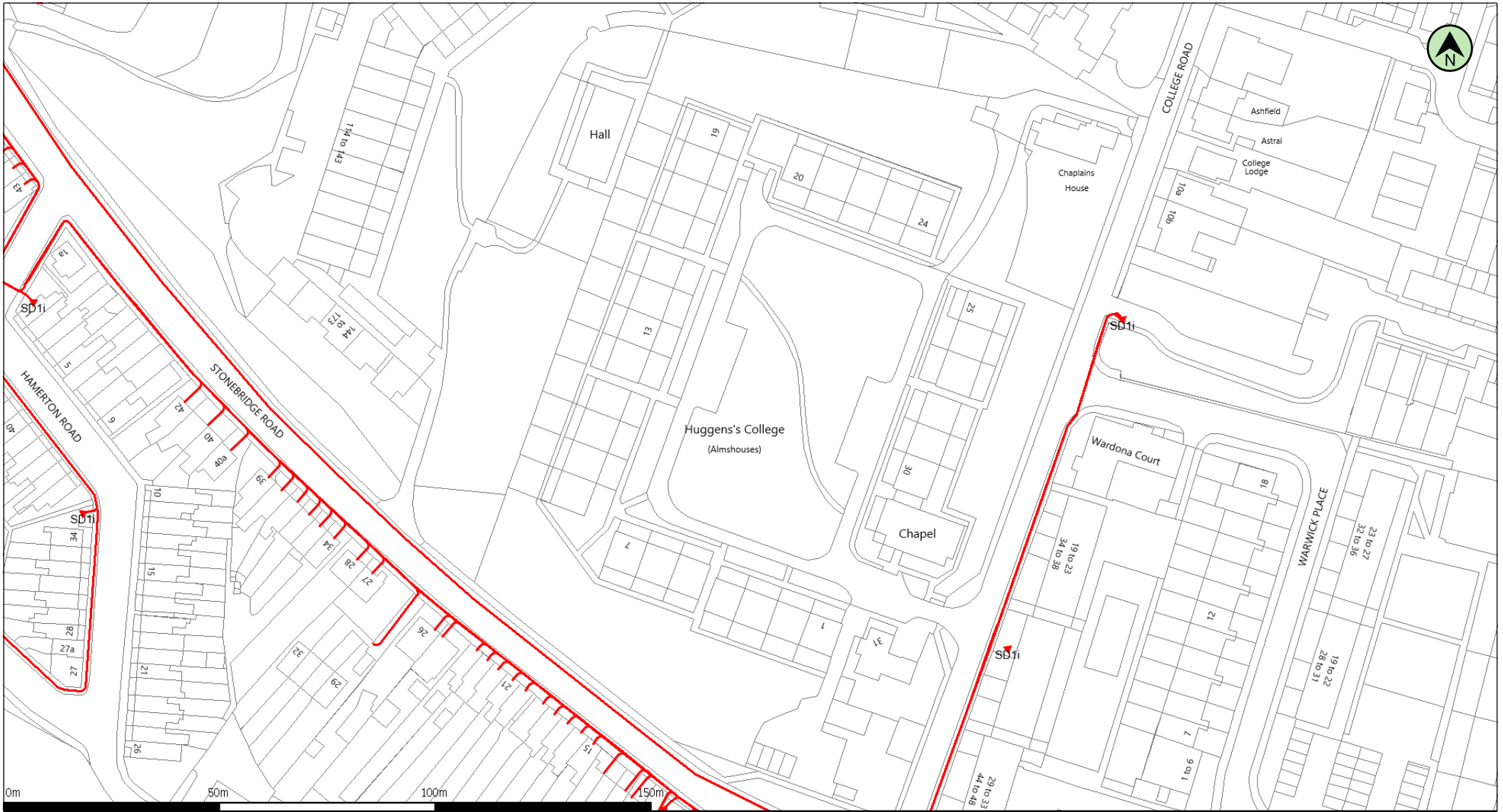
NetMAP system	Description
	11kV underground cable
	6.6kV underground cable
	<6.6kV underground cable
	11kV overhead line
	6.6kV overhead line
	<6.6kV overhead line

Primary and secondary sites (1:10000 view)

NetMAP system	Description
Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)	
SITE NAME 008590 	Primary substation showing name and SPENS number
SITE NAME 521234	11kV ground mounted substation showing name and SPENS number
SITE NAME 524514	6.6kV ground mounted substation showing name and SPENS number
SITE NAME 523634	<6.6kV ground mounted substation showing name and SPENS number
SITE NAME pmt 527522	11kV pole mounted substation showing name and SPENS number
SITE NAME pmt 525743	6.6kV pole mounted substation showing name and SPENS number
SITE NAME pmt 526543	<6.6kV pole mounted substation showing name and SPENS number
SITE NAME 527238	Pole mounted switching substation showing name and SPENS number

APPENDIX 6

Virgin Media



(c) Crown copyright and database rights 2023 Ordnance Survey 100019209 Date: 30/11/23 Scale: 1:1250 Map Centre: 561691,174603 Data updated: 02/10/23 Our Ref: 1335337 - 2 Telecoms Plan A4

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 2023 Ordnance Survey 100019209.

Duct, Trench



Chamber / Pole



Cabinet



jeff@pjrservices.co.uk

Huggens College

