





# GIS ELECTRIC SYMBOLS (SOUTH)

|  |                                  |  |                          |
|--|----------------------------------|--|--------------------------|
|  | LV UNDERGROUND SERVICE CABLE     |  | POLE                     |
|  | LV UNDERGROUND MAINS CABLE       |  | POLE MOUNTED TRANSFORMER |
|  | 2KV-3.3KV UNDERGROUND CABLE      |  | SUBSTATION               |
|  | 6.6KV UNDERGROUND CABLE          |  | LINK BOX                 |
|  | 11KV UNDERGROUND CABLE           |  | PILLAR                   |
|  | 22KV UNDERGROUND CABLE           |  | MAJOR PIPELINE           |
|  | 33KV UNDERGROUND CABLE           |  | ASSUMED ROUTE            |
|  | 66KV UNDERGROUND CABLE           |  |                          |
|  | 132KV UNDERGROUND CABLE          |  |                          |
|  | LV OVERHEAD LINE                 |  | CROSS SECTION            |
|  | 2-3.3KV OVERHEAD LINE            |  |                          |
|  | 6.6KV OVERHEAD LINE              |  |                          |
|  | 11KV OVERHEAD LINE               |  |                          |
|  | 22KV OVERHEAD LINE               |  |                          |
|  | 33KV OVERHEAD LINE               |  |                          |
|  | 66KV OVERHEAD LINE               |  |                          |
|  | 132KV OVERHEAD LINE              |  |                          |
|  | FIBRE OPTIC CABLE                |  |                          |
|  | PILOT CABLE                      |  |                          |
|  | CIRCUIT BREAKER                  |  |                          |
|  | SWITCH DISCONNECTOR              |  |                          |
|  | POLE BOX                         |  |                          |
|  | STRAIGHT JOINT                   |  |                          |
|  | TEE JOINT                        |  |                          |
|  | TRIFURCATING JOINT               |  |                          |
|  | POT END JOINT                    |  |                          |
|  | CAPPED END JOINT                 |  |                          |
|  | SEALING END JOINT                |  |                          |
|  | SERVICE CONNECTOR JOINT          |  |                          |
|  | O/H CONNECTOR JOINT              |  |                          |
|  | WALL BOX JOINT                   |  |                          |
|  | DUCTING                          |  |                          |
|  | FLYING STAY                      |  |                          |
|  | PME EARTH                        |  |                          |
|  | NEUTRAL EARTH                    |  |                          |
|  | OIL/GAS GAUGE                    |  |                          |
|  | OIL/GAS TANK                     |  |                          |
|  | BALANCER                         |  |                          |
|  | REGULATOR                        |  |                          |
|  | PIT                              |  |                          |
|  | SCHEMATIC CONNECTOR              |  |                          |
|  | SUPPLY LOCATION-PROPERTY         |  |                          |
|  | SUPPLY LOCATION-OTHER            |  |                          |
|  | SUPPLY LOCATION-STREET FURNITURE |  |                          |

|  |                                   |            |                                       |
|--|-----------------------------------|------------|---------------------------------------|
|  | Scottish and Southern Energy plc. |            | UNCONTROLLED COPY                     |
|  | DATE:                             | 18/09/2006 | Subject to Revision<br>Master held at |
|  | SCALE:                            | 1:500      | INTERNAL USE ONLY                     |

Our reference: EFR878  
Your reference:



SSE  
Primary Road  
Chalvey  
Slough  
SL1 2UD

Ranjeet Bhalerao  
XCO2 Energy Ltd  
17-18 Hayward's Place  
Clerkenwell  
London  
EC1R 0EQ

 01753 695 604  
 01753 695 751  
 jennifer.slack@sse.com  
 www.ssepd.co.uk

24 March 2016

Dear Ranjeet,

### **Budget Quotation for New Development at Jackson's Corner, High Street, Reading**

Thank you for your recent enquiry. I am pleased to provide you with my budget estimate for the new electricity connections at the above development. My initial proposals will be subject to our obtaining all necessary legal consents to carry out the work as indicated, including any consents required from third parties.

 **55,000**

This budget estimate has been calculated exclusive of VAT and does not constitute an offer of terms

**You should be aware that this estimate reflects the current situation and cannot be guaranteed into the future. Before making any financial commitments based on the indicative price above, please contact me to request a firm quotation.**



The budget estimate has been calculated based on a high level assessment, my local knowledge and experience, the information you have provided and the assumptions listed overleaf. It is my best estimate of the costs you would incur for this proposal and is intended for budgetary purposes only.

I trust the information I have provided is of assistance and if I can help further please do not hesitate to contact me. Alternatively, you may find answers to any questions you may have on our web site [www.ssepd.co.uk](http://www.ssepd.co.uk).

Yours sincerely,

Jennifer Slack  
Connections Designer

## **New Development at Jackson's Corner, High Street, Reading**

### **Additional assumptions and charges**

- The above price is based on installing new supplies to 2no. 140kVA commercial supplies, 1no. 69kVA commercial supply, and 1no. bulk supply for flats. It is proposed to install a 500kVA unit substation on site within a customer-provided enclosure with LV services to the 4 supplies.
- The connection point to our network is assumed to be in the footpath adjacent to site, however this may not be a suitable connection point. This will be assessed if you pay for a feasibility study or request a firm quotation.
- I have assumed that there is no need for reinforcement works to accommodate your new connections. This may not be the case. I can include these costs (or confirm that none apply) if you pay for a feasibility study or request a firm quotation.
- All on site excavation and reinstatement and cable containment will be provided by the developer.
- All internal containment for rising mains cables will be provided by the developer.
- We will need to install a new Distribution Substation on a 4m x 4m plot. The land for this is to be provided by the developer at no cost to us.
- Our proposal may include installing cable on third party land. Legal consent, from third parties, may not be readily forthcoming and could cause delays in providing your connection. This may also affect the cost for the proposed connection.
- Some Highway Authorities are proposing to introduce "Lane Rental Charges" where Utility Companies carry out excavations in the Public Highway. These costs will be passed through to you, together with a small administration cost, should this affect your connection. This charge has not been included in this estimate.

### **Important notice: Traffic Management Act - Street Works Permit schemes**

Local Authorities in England and Wales are likely to introduce a new Permit Scheme for street works that will include charges for providing the permits. It is not clear at this time which Local Authorities will introduce this scheme, when the scheme will be introduced, which streets will be affected or what the level of charges will be. These charges are not within Southern Electric Power Distribution plc's control, and cannot be absorbed by us.

This quotation excludes any charges that may be levied by the Local Authority in respect of these charges. It is important to note that any such charges which are relevant to this project will be subsequently passed on to you through a separate invoice. In addition to the actual charges from the Local Authority, we will charge £25.00 + VAT to cover our administrative charges. Acceptance of this quotation means that you also accept these additional charges.

You may wish to seek clarification on how these charges may affect you from the relevant Local Authority.

## Safety

We ask you to take note of the following:-

In accordance with the Health & Safety Guidance Note GS6, you are required to take every precaution to ensure that cranes, tipper lorries, scaffolding, ladders and other plant employed on your works are kept at a safe distance from overhead electric lines and their supports and that such supports are not disturbed by excavations. Goal posts with height restriction will need to be placed at appropriate locations for vehicles passing underneath Scottish and Southern Energy Power Distribution's overhead lines.

In accordance with Health & Safety Executive Guidance Note HS (G) 47 care will also be necessary when digging in proximity to underground cables, particular if mechanical excavators are used.

Overhead lines, underground cables and other electrical plant must be regarded as being "live". Before commencing work in proximity to such plant written notification must be given to Scottish and Southern Energy Power Distribution.

If during the course of your works, any cable should be damaged by you/or your contractors, then this fact must be reported to our Emergency Service Centre on 08000 72 72 82 (Southern Electric Power Distribution plc) immediately. The cost of any repairs will be fully rechargeable.

### Locating cables on site

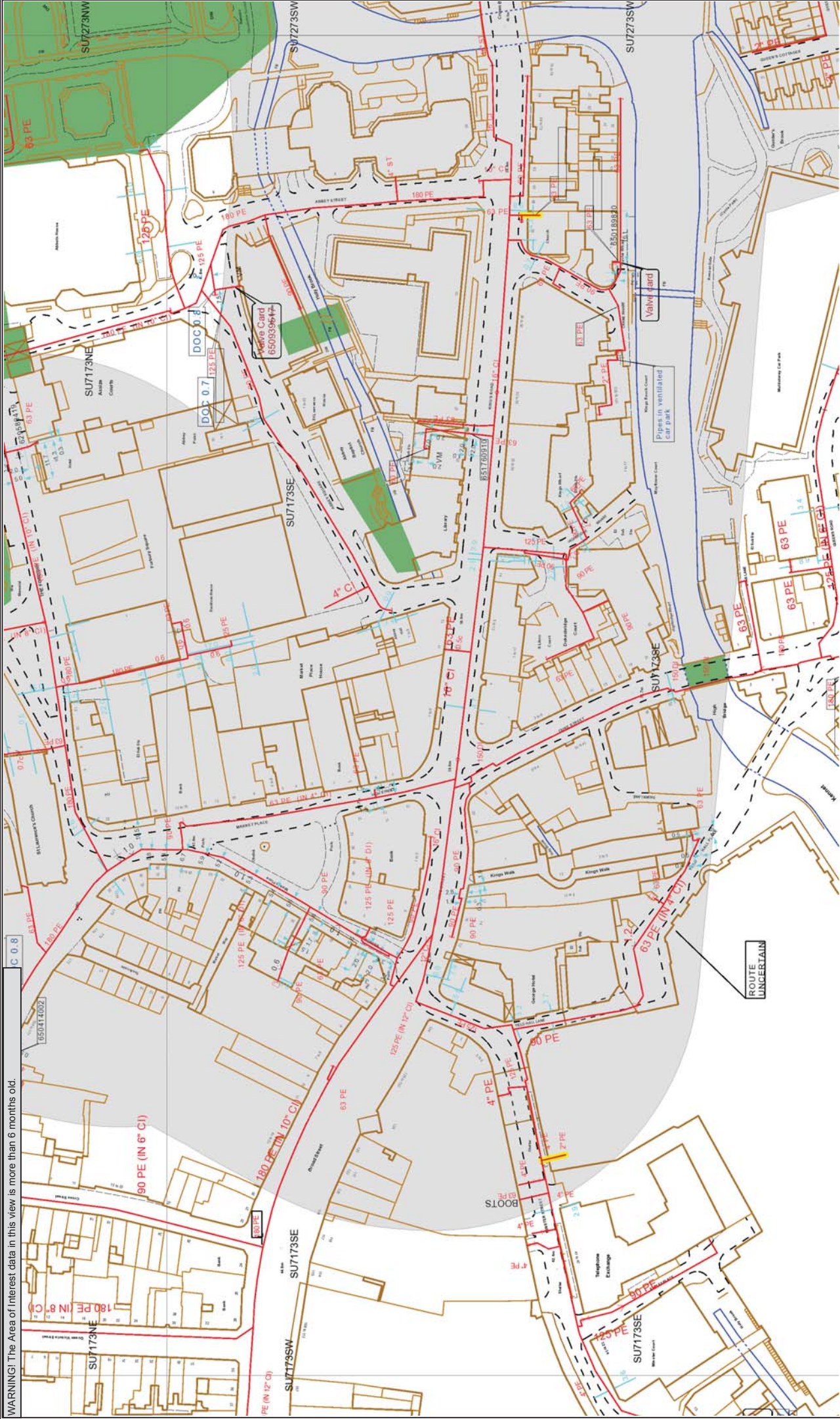
To obtain the latest copies of our cable records please send a plan of the area in question together with your contact details to:

Mapping Services  
Scottish and Southern Energy Power Distribution  
P O Box 6206  
BASINGSTOKE  
RG24 8BW

Tel: 01256 337294  
Fax: 01256 337295

requesting details of any Scottish and Southern Energy Power Distribution plant and cables in the area. You must excavate hand-dug trial holes to establish the actual positions of all cables before any mechanical excavation works commence.

WARNING! The Area of Interest data in this view is more than 6 months old.

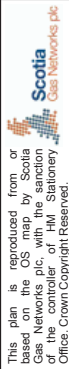


This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from 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 Plant Protection Team on 08450703497 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 (G47), 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.

Intranet WebGIS 2.1

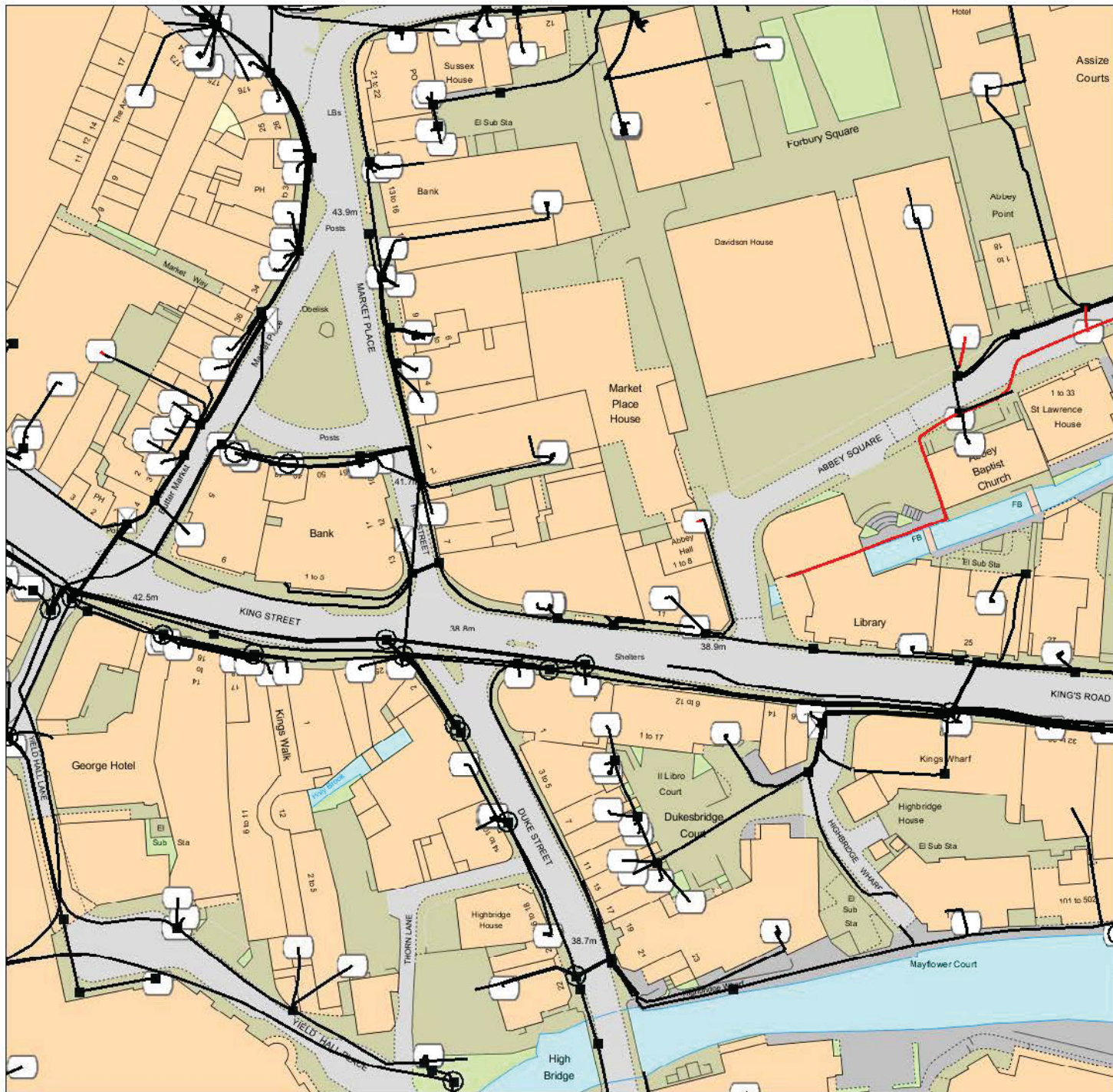
Reading Area

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|                                         |              |   |        |                 |
|-----------------------------------------|--------------|---|--------|-----------------|
| SCALE : 1 : 1312                        | LP MAINS     | — | SSSIs  | Material Change |
| USER ID : s155307                       | MP MAINS     | — | GTs    | Diameter Change |
| DATE : 24/03/2016                       | IP MAINS     | — | Valve  | Depth of Cover  |
| INTERNAL USE ONLY                       | LHP MAINS    | — | Syphon |                 |
| GRID REFERENCE : E471749N173405SU 71 73 | HISTORY DATA | — |        |                 |
|                                         | LAS          | — |        |                 |

# 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.

## DIAL BEFORE YOU DIG

FOR PROFESSIONAL ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS

ADVANCE NOTICE REQUIRED  
(Office hours: Monday-Friday 08.00 to 17.00)

Tel: 0800 9173993  
E-mail: [dbyd@openreach.co.uk](mailto:dbyd@openreach.co.uk)  
Website: [www.dialbeforeyoudig.com](http://www.dialbeforeyoudig.com)

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## KEY TO BT SYMBOLS

|  |                    |  |               |
|--|--------------------|--|---------------|
|  | UNDERGROUND PLANT  |  | POLE          |
|  | OVERHEAD PLANT     |  | CABINET       |
|  | JOINT BOX          |  | BURIED JOINT  |
|  | DISTRIBUTION POINT |  | JOINTING POST |
|  | MANHOLE            |  | PROPOSED U/G  |
|  | DP BOUNDARY        |  | PROPOSED O/H  |
|  | OTHER BT BOUNDARY  |  | PROPOSED BOX  |

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 the time of preparation.

**openreach**  
a BT Group business

BT Ref : AXI04595Z

Map Reference : (centre) SU7175073413

Easting/Northing : (centre) 471750,173413

Issued : 11/03/2016 16:59:56

**FOOTNOTE: WARNING IT IS ESSENTIAL THAT YOU CONTACT NATIONAL NETWORK HANDLING CENTRE BY EMAIL [nnhc@openreach.co.uk](mailto:nnhc@openreach.co.uk) BEFORE PROCEEDING WITH ANY WORK IN THE HATCHED AREA**

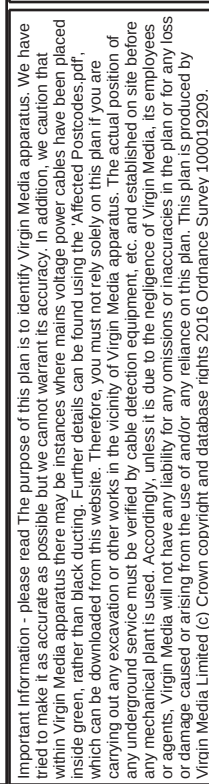


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Important information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there 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 2016 Ordnance Survey 100019209.

shalini.akshintala@virginmedia.co.uk

|              |         |         |
|--------------|---------|---------|
| Duct, Trench | Chamber | Cabinet |
|--------------|---------|---------|







### Vodafone Network Colour:

|                                                                                     |                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------|
|  | Ex-Cable&Wireless UK Network (now Vodafone) |
|  | Planned & Approved Route                    |
|  | Planned Route – Awaiting Approval           |
|  | Other Licensed Operator (OLO)               |
|  | Ex-Thus Network (now Vodafone)              |
|  | Ex-Energis Network (now Vodafone)           |
|  | OLO                                         |

### Other:

|                                                                                       |                                          |
|---------------------------------------------------------------------------------------|------------------------------------------|
|    | Overhead Electricity Line (non Vodafone) |
|  | Network Rail                             |

### Other Licensed Operator (OLO).

= Ex-Cable&Wireless UK, Energis and Thus fibre-optic cable within an OLO duct. Please contact all other operators for further details of their apparatus within that area.

Your ref  
Our ref NRSWA/3.03/003095

Date 24-03-2016



Name  
**Ranjeet Bhalerao**  
XCO2 Energy Ltd,  
17-18 Hayward's Place,  
Clerkenwell,  
London, EC1R 0EQ.

Smale House  
114 Great Suffolk Street  
London  
SE1 0SL

C3requests@vodafone.com

### **Budget Estimate Diversion/Protection of Vodafone Apparatus**

Dear Sirs,

#### **New Roads and Street Works Act 1991**

#### **Proposed Works at: Jackson's Corner, High Street, Reading**

Please find detailed below, a budget estimate for carrying out the necessary diversion/protection to Vodafone Limited's apparatus due to your proposed work. The estimated cost for these works is £7,041 plus VAT. Please be aware we reserve the right to amend this estimate dependent upon the actual costs of the works.

This estimate is based upon the current information provided and allows

Lowering of approximately 20m of the existing Vodafone apparatus over the area of your proposed works. This has been made on the assumption that access to existing apparatus and the space around our existing ducts is available. We would recommend that prior to requesting a C4 estimate, you undertake trial holes, and share them with all utilities, to help determine whether a slew/lower operation would be possible. If slew/lowering is not achievable, Vodafone requirements would have to be re-assessed and a full cable divert would have to be considered with the associated increase in costs and increased timescales.

Under the CDM regulations, please could you provide us with any risks or hazards that may be associated with these works.

The approximate lead-in time the implementation of civils only works is 6 working weeks from receipt of the Order/payment. If a full cable diversion is required then this lead-in time will extend to approximately 20 weeks.

Please note that Vodafone operate a full network freeze, during which no works can be carried out on our network, between 1<sup>st</sup> December and the first week of January every year, which may impact on the timescales for your works.

If you wish to obtain a C4 detailed estimate, the cost of providing this is £2500 plus VAT.

This letter is based upon the current information provided in respect of your proposed works and relates to Vodafone Limited's underground fibre optic network only, which includes all former companies; Cable & Wireless UK, Energis Communications Limited, Thus PLC and Your Communications Limited's networks.

**Vodafone Limited**  
The Connection, Newbury,  
Berkshire, RG14 2FN, United Kingdom

Phone +44 (0)1635 33251  
Fax +44 (0)1635 682729

[vodafone.co.uk](http://vodafone.co.uk)



All work will be carried out by a Vodafone approved contractor on receipt of your unconditional Order and correct advanced deposit. This should be made payable to "Vodafone Limited" for the attention of Rob Baker at Vodafone Diversionary Works Team, Smale House, Floor 2E, 114 Great Suffolk Street, London SE1 0SL.

Please quote the following reference in all correspondence/instructions to proceed: NRSWA/3.03/003095.

This estimate will remain valid for a period of three months from the date of this letter and all works resulting from this estimate shall be subject to the terms and conditions of Vodafone and/or where applicable the terms and conditions dictated by the New Roads & Street Works Act 1991 and associated codes of practice.

Please note that under the Diversionary Works Code of Practice, Appendix C and the associated Regulations that apply, Promoters are only entitled to one desktop costing per any given scheme. Any change in scope or a subsequent request for a revised costing on the same scheme is then deemed chargeable and will only be reviewed under the C4 Process.

Yours faithfully

Diversionary Works Team  
Vodafone

**Vodafone Limited**  
The Connection, Newbury,  
Berkshire, RG14 2FN, United Kingdom

Phone +44 (0)1635 33251  
Fax +44 (0)1635 682729

**[vodafone.co.uk](http://vodafone.co.uk)**



Before you excavate – If in doubt as to the position of our plant please call the appropriate External Works Control.  
Remember – if you damage the Company's plant you will be liable to pay the cost of carrying out a repair.  
There may be Optical Fibre Cables in the vicinity of your works  
Great care must be taken to avoid damage as these cables are very expensive to repair. Also, laser light travels along the fibre and the precautions outlined in BS 4803 Part 3 should be adhered to.  
For advice call the appropriate Works Control.

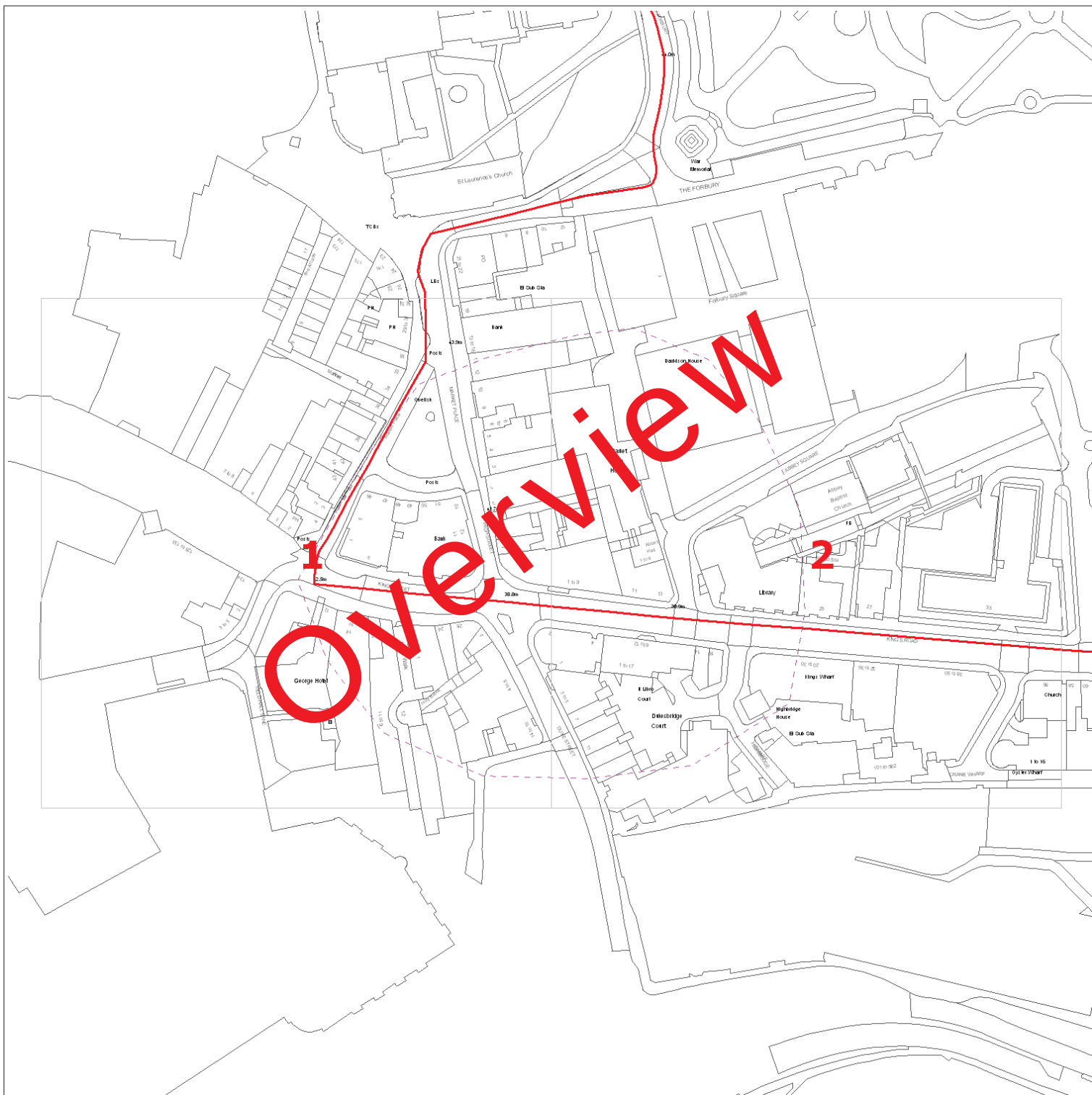
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PRINTED ON 11/03/2016



Kingston Communications  
Network Engineering Centre, Melbourne House,  
Vulcan Street,  
Clough Road,  
Kingston upon Hull  
HU6 7PS  
Tel: 01482 603466



affiniti  
GET INVOLVED  
Brandy Carr Road,  
Wrenthorpe,  
Wakefield  
WF2 0UG  
Tel: 0845 120 1579



Date Requested: 11/03/2016

Requested by: Christina Elliott

Company: Atkins

Job Reference: 8192601

Your Scheme/Reference: 44712/AV

 ZAYO DUCT  
 or  ZAYO CHAMBER  
 Dig Sites: Line --- Area 

Scale on A4 paper: 1:1000

**zayo**  
GROUP

4th Floor Harmsworth House  
13-15 Bouverie Street  
London EC4Y 8DP



JSM Group Ltd  
Sterling House  
Mutton Lane, Potters Bar  
Hertfordshire, EN6 3AR  
T: 01992 788 019

[zayoplantenquiries@jsmgroup.com](mailto:zayoplantenquiries@jsmgroup.com)

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Protecting Lives, Cables & Pipes

In Emergency Only and if Zayo Plant or Cables damaged call: 0800 169 1646

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Date Requested: 11/03/2016

Requested by: Christina Elliott

Company: Atkins

Job Reference: 8192601

Your Scheme/Reference: 44712/AV

— ZAYO DUCT  
 ■ or ■ ZAYO CHAMBER

Dig Sites: Line --- Area [ ]

Scale on A4 paper: 1:1000

**zayo**  
GROUP

4th Floor Harmsworth House  
 13-15 Bouverie Street  
 London EC4Y 8DP



JSM Group Ltd  
 Sterling House  
 Mutton Lane, Potters Bar  
 Hertfordshire, EN6 3AR  
 T: 01992 788 019

[zayoplantenquiries@jsmgroup.com](mailto:zayoplantenquiries@jsmgroup.com)

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