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Do not scale off this map. The plan and any information supplied with it is furnished as a general guide, is only valid at the date of issue and no warranty as to its correctness is given or implied. In particular this plan and any information shown on it must not be relied upon in the event of any development or works (including but not limited to excavations) in the vicinity of SEVERN TRENT WATER assets or for the purposes of determining the suitability of a point of connection to the sewerage or distribution systems. Reproduction by permission of Ordnance Survey on behalf of HMSO. ©Crown Copyright and database rights 2024. All rights reserved. Ordnance Survey licence number 100031673. Document users other than SEVERN TRENT WATER business users are advised that this document is provided for reference purpose only and is subject to copyright, therefore, no further copies should be made from it.

| | | | | | |
|--|--|------------------------|--|---------------------------------------|--|
| Public Foul Gravity/Lateral Drain | | Highway Drain | | Manhole Foul | |
| Public Combined Gravity/Lateral Drain | | Overflow Pipe | | Manhole Surface | |
| Public Surface Water Gravity/Lateral Drain | | Disposal Pipe | | Abandoned Pipe | |
| Pressure Foul | | Culverted Water Course | | Chamber | |
| Pressure Combined | | Pumping Station | | Section 104 sewers are shown in green | |
| Pressure Surface Water | | Fitting | | Private sewers are shown in magenta | |

tom.furlong@bwbconsulting.com

Newbold Verdon



GENERAL CONDITIONS AND PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK ADJACENT TO SEVERN TRENT WATER'S APPARATUS

Please ensure that a copy of these conditions is passed to your representative and/or your contractor on site. If any damage is caused to Severn Trent Water Limited (STW) apparatus (defined below), the person, contractor or subcontractor responsible must inform STW immediately on:

0800 783 4444 (24 hours)

a) These general conditions and precautions apply to the public sewerage, water distribution and cables in ducts including (but not limited to) sewers which are the subject of an Agreement under Section 104 of the Water Industry Act 1991 (a legal agreement between a developer and STW, where a developer agrees to build sewers to an agreed standard, which STW will then adopt); mains installed in accordance with an agreement for the self-construction of water mains entered into with STW and the assets described at condition b) of these general conditions and precautions. Such apparatus is referred to as "STW Apparatus" in these general conditions and precautions.

b) Please be aware that due to The Private Sewers Transfer Regulations June 2011, the number of public sewers has increased, but many of these are not shown on the public sewer record. However, some idea of their positions may be obtained from the position of inspection covers and their existence must be anticipated.

c) On request, STW will issue a copy of the plan showing the approximate locations of STW Apparatus although in certain instances a charge will be made. The position of private drains, private sewers and water service pipes to properties are not normally shown but their presence must be anticipated. This plan and the information supplied with it is furnished as a general guide only and STW does not guarantee its accuracy.

d) STW does not update these plans on a regular basis. Therefore the position and depth of STW Apparatus may change and this plan is issued subject to any such change. Before any works are carried out, you should confirm whether any changes to the plan have been made since it was issued.

e) The plan must not be relied upon in the event of excavations or other works in the vicinity of STW Apparatus. It is your responsibility to ascertain the precise location of any STW Apparatus prior to undertaking any development or other works (including but not limited to excavations).

f) No person or company shall be relieved from liability for loss and/or damage caused to STW Apparatus by reason of the actual position and/or depths of STW Apparatus being different from those shown on the plan.

In order to achieve safe working conditions adjacent to any STW Apparatus the following should be observed:

1. All STW Apparatus should be located by hand digging prior to the use of mechanical excavators.
2. All information set out in any plans received from us, or given by our staff at the site of the works, about the position and depth of the mains, is approximate. Every possible precaution should be taken to avoid damage to STW Apparatus. You or your contractor must ensure the safety of STW Apparatus and will be responsible for the cost of repairing any loss and/or damage caused (including without limitation replacement parts).
3. Water mains are normally laid at a depth of 900mm. No records are kept of customer service pipes which are normally laid at a depth of 750mm; but some idea of their positions may be obtained from the position of stop tap covers and their existence must be anticipated.
4. During construction work, where heavy plant will cross the line of STW Apparatus, specific crossing points must be agreed with STW and suitably reinforced where required. These crossing points should be clearly marked and crossing of the line of STW Apparatus at other locations must be prevented.
5. Where it is proposed to carry out piling or boring within 20 metres of any STW Apparatus, STW should be consulted to enable any affected STW Apparatus to be surveyed prior to the works commencing.
6. Where excavation of trenches adjacent to any STW Apparatus affects its support, the STW Apparatus must be supported to the satisfaction of STW. Water mains and some sewers are pressurised and can fail if excavation removes support to thrust blocks to bends and other fittings.
7. Where a trench is excavated crossing or parallel to the line of any STW Apparatus, the backfill should be adequately compacted to prevent any settlement which could subsequently cause damage to the STW Apparatus. In special cases, it may be necessary to provide permanent support to STW Apparatus which has been exposed over a length of the excavation before backfilling and reinstatement is carried out. There should be no concrete backfill in contact with the STW Apparatus.
8. No other apparatus should be laid along the line of STW Apparatus irrespective of clearance. Above ground apparatus must not be located within a minimum of 3 metres either side of the centre line of STW Apparatus for smaller sized pipes and 6 metres either side for larger sized pipes without prior approval. No manhole or chamber shall be built over or around any STW Apparatus.
9. A minimum radial clearance of 300 millimetres should be allowed between any plant or equipment being installed and existing STW Apparatus. We reserve the right to increase this distance where strategic assets are affected.
10. Where any STW Apparatus coated with a special wrapping is damaged, even to a minor extent, STW must be notified and the trench left open until the damage has been inspected and the necessary repairs have been carried out. In the case of any material damage to any STW Apparatus causing leakage, weakening of the mechanical strength of the pipe or corrosion-protection damage, the necessary remedial work will be recharged to you.
11. It may be necessary to adjust the finished level of any surface boxes which may fall within your proposed construction. Please ensure that these are not damaged, buried or otherwise rendered inaccessible as a result of the works and that all stop taps, valves, hydrants, etc. remain accessible and operable. Minor reduction in existing levels may result in conflict with STW Apparatus such as valve spindles or tops of hydrants housed under the surface boxes. Checks should be made during site investigations to ascertain the level of such STW Apparatus in order to determine any necessary alterations in advance of the works.
12. With regard to any proposed resurfacing works, you are required to contact STW on the number given above to arrange a site inspection to establish the condition of any STW Apparatus in the nature of surface boxes or manhole covers and frames affected by the works. STW will then advise on any measures to be taken, in the event of this a proportionate charge will be made.
13. You are advised that STW will not agree to either the erection of posts, directly over or within 1.0 metre of valves and hydrants,

14. No explosives are to be used in the vicinity of any STW Apparatus without prior consultation with STW.

TREE PLANTING RESTRICTIONS

There are many problems with the location of trees adjacent to sewers, water mains and other STW Apparatus and these can lead to the loss of trees and hence amenity to the area which many people may have become used to. It is best if the problem is not created in the first place. Set out below are the recommendations for tree planting in close proximity to public sewers, water mains and other STW Apparatus.

15. Please ensure that, in relation to STW Apparatus, the mature root systems and canopies of any tree planted do not and will not encroach within the recommended distances specified in the notes below.

16. Both Poplar and Willow trees have extensive root systems and should not be planted within 12 metres of a sewer, water main or other STW Apparatus.

17. The following trees and those of similar size, be they deciduous or evergreen, should not be planted within 6 metres of a sewer, water main or other STW Apparatus. E.g. Ash, Beech, Birch, most Conifers, Elm, Horse Chestnut, Lime, Oak, Sycamore, Apple and Pear. Asset Protection Statements Updated May 2014

18. STW personnel require a clear path to conduct surveys etc. No shrubs or bushes should be planted within 2 metre of the centre line of a sewer, water main or other STW Apparatus.

19. In certain circumstances, both STW and landowners may wish to plant shrubs/bushes in close proximity to a sewer, water main or other STW Apparatus for screening purposes. The following are shallow rooting and are suitable for this purpose: Blackthorn, Broom, Cotoneaster, Elder, Hazel, Laurel, Privet, Quickthorn, Snowberry, and most ornamental flowering shrubs.

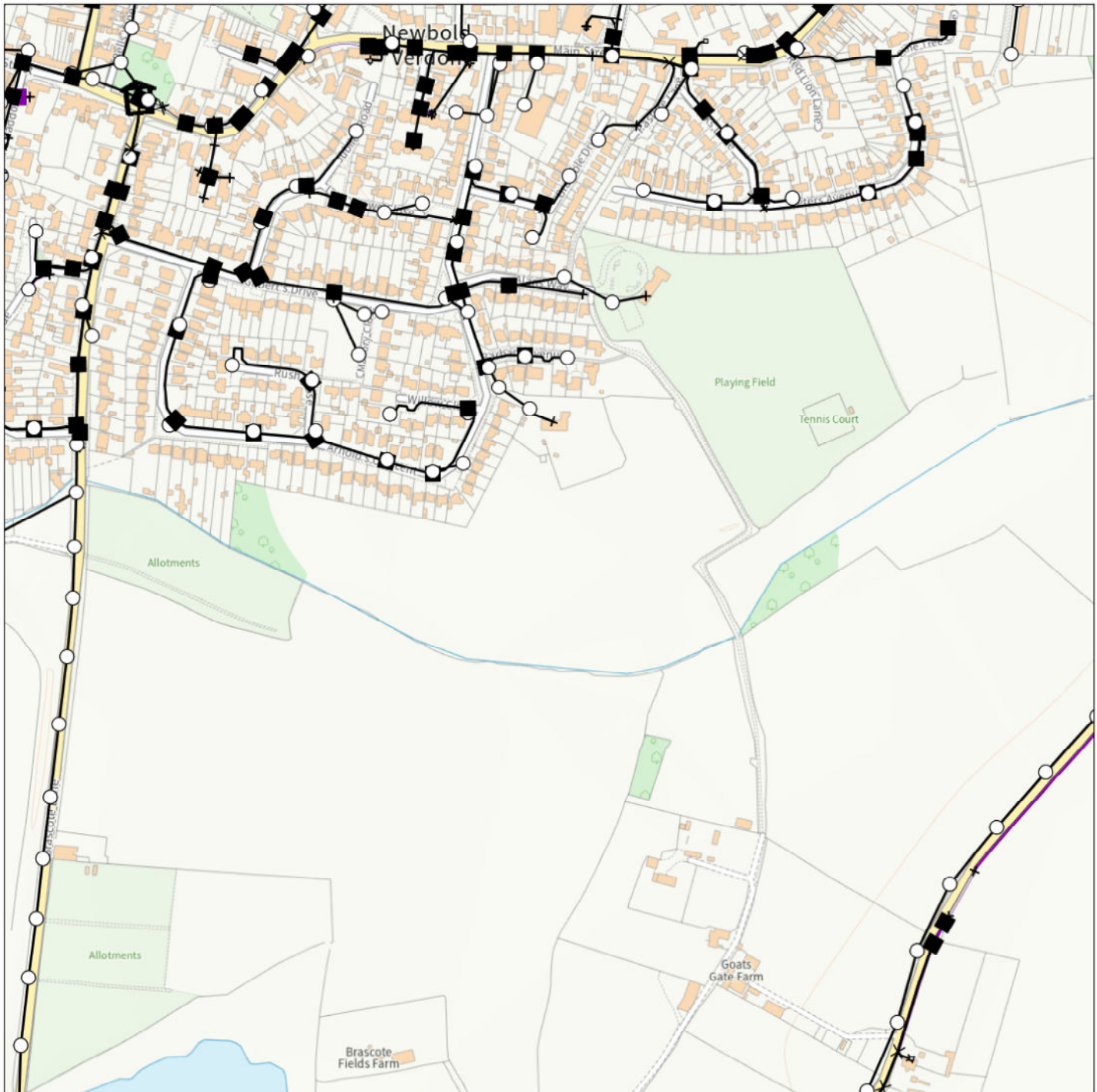
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APPENDIX 6: BRITISH TELECOMMUNICATIONS

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

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 : KZM10236V

Map Reference : (centre) SK4485403296

Easting/Northing : (centre) 444854,303296

Issued : 27/03/2024 10:23:35

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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 7: VODAFONE

Tom Furlong

From: T.N, Vathsala <Vathsala.T.N@atkinsrealis.com>
Sent: 28 March 2024 09:04
To: Tom Furlong
Subject: RE: 243693 - Newbold Verdon, Phase 2

This email originated from outside of our organisation. Please exercise caution with content, links and attachments.

Please accept this email as confirmation that Vodafone: Fixed **does not** have apparatus within the vicinity of your proposed works detailed below.

Many thanks.

Plant Enquiries Team(va)
T: +44 (0)1454 662881
E: osm.enquiries@atkinsglobal.com

ATKINS working on behalf of Vodafone: Fixed



This response is made only in respect to electronic communications apparatus forming part of the Vodafone Limited electronic communications network formerly being part of the electronic communications networks of Cable & Wireless UK, Energis Communications Limited, Thus Group Holdings Plc and Your Communications Limited.

PLEASE NOTE:

The information given is indicative only. No warranty is made as to its accuracy. This information must not be solely relied upon in the event of excavation or other works carried out in the vicinity of Vodafone plant. No liability of any kind whatsoever is accepted by Vodafone, its servants, or agents, for any error or omission in respect of information contained on this information. The actual position of underground services must be verified and established on site before any mechanical plant is used. Authorities and contractors will be held liable for the full cost of repairs to Vodafone's apparatus and all claims made against them by Third parties as a result of any interference or damage.

IMPORTANT - PLEASE READ:

Diversionary works may be necessary if the existing line of the highway/railway or its levels are altered, where apparatus is affected. Where apparatus is affected and requires diversion, you must submit draft details of the proposed scheme with a request for a 'C3 Budget Estimate' to c3requests@vodafone.com. These estimates should be provided by Vodafone normally within 20 working days from receipt of your request. Please include proof of this C2 response when requesting a C3 (using the 'forward' option).



Please consider the environment before printing this e-mail

At Atkins - member of the SNC-Lavalin Group, we work flexible hours around the world. Although I have sent this email at a time convenient for me, I don't expect you to respond until it works for you.

From: Tom Furlong <Tom.Furlong@bwbconsulting.com>
Sent: Thursday, March 21, 2024 5:35 PM
To: plantenquiries@catelecomuk.com; nrswa.uk@equans.com; [Plantenquiries <plantenquiries@ocugroup.com>](mailto:Plantenquiries@ocugroup.com); [MBNLplantenquiries <mbnl.plant.enquiries@turntown.com>](mailto:MBNLplantenquiries@mbnl.plant.enquiries@turntown.com); nrswa@sky.uk; SOTA Plant Enquiries <sota.plantenquiries@ocugroup.com>; assetrecords@utilityassets.co.uk; osp-team@uk.verizonbusiness.com; National Plant Enquiries <OSM.enquiries@atkinsrealis.com>
Subject: 243693 - Newbold Verdon, Phase 2

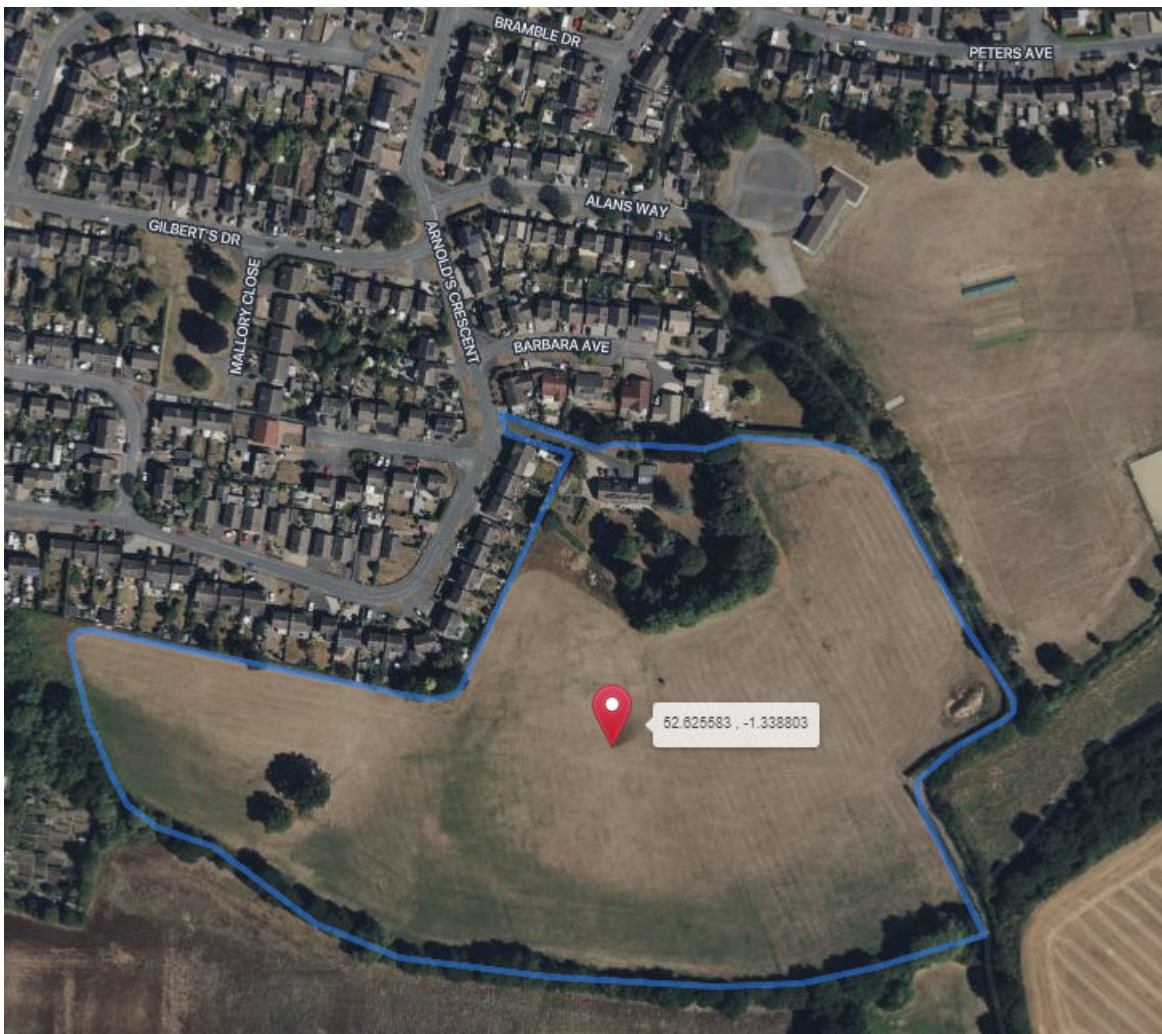
Dear Sir / Madam,

May I please request a copy of your services or apparatus within the immediate vicinity (up to a 75 metres vicinity around the site) for the site detailed below. If possible, an electronic PDF location plan clearing marking any services or apparatus is preferable.

I have enclosed a location plan and provided site information below for your convenience (site boundary in RED).

Should you have any issues in identifying the sites or require further information, please don't hesitate to ask. I look forward to hearing from you.

Site Name: Newbold Verdon, Phase 2
Postcode: LE9 9NS
Easting: 444854
Northing: 303296



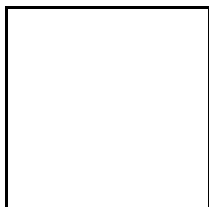
Kind regards,

Tom Furlong EngTech, LCIBSE
Apprentice Building Services Technician BBE | BWB Consulting Limited

I will be out of office every Tuesday due to University commitments.

Advance Notice of Annual Leave: 22.03.24 – 25.03.24

Whitehall Waterfront, 2 Riverside Way, Leeds, LS1 4EH
T 0113 233 8018 **M** 07500601088 **W** www.bwbconsulting.com



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Registered Office: 5th Floor, Waterfront House, Station Street, Nottingham, NG2 3DQ

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APPENDIX 8: VIRGIN MEDIA



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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 2024 Ordnance Survey 100019209.

| | | |
|--------------|----------------|---------|
| Duct, Trench | Chamber / Pole | Cabinet |
| | | |

| |
|-------------------------------|
| tom.furlong@bwbconsulting.com |
| Newbold Verdon |
| |



APPENDIX 9: ELECTRIC QUOTATION



Budget Estimate

Mr Tlf Furlong Bwb Consulting Ltd
BWB Consulting Ltd
2 RIVERSIDE WAY, WHITEHALL WATERFRONT
Leeds
Leeds
LS1 4EH

National Grid Electricity Distribution
Hammonds Way
HINCKLEY
Leicestershire
LE10 3EQ

Telephone: 01455 232222
Email: dwitherington@nationalgrid.co.uk

Our ref
5134488

Date
28/05/2024

Dear Mr Tlf Furlong Bwb Consulting Ltd,

Budget Estimate for electricity connection works by National Grid Electricity Distribution (East Midlands) plc ("NGED") for a 655.00kVA Connection at Phase 2 Newbold Verdon, Verdon, LE9 9NS

Thank you for your recent enquiry. I am pleased to provide an indication of NGED's likely costs to carry out the connection works for you ("the Budget Estimate").

Our estimate for this work is based upon the information you have provided and is shown below.

| | | |
|------------------------------------|-----------------------|---------------------|
| Estimated Connection Charge | Contestable works | £ 604,136.00 |
| | Non-Contestable works | £ 8,495.00 |
| | VAT at 0 % | £ 00.00 |
| | Total | £ 612,631.00 |

Non-Contestable works are those works that only NGED can undertake. It is possible for you to get someone else to quote for the contestable part of the works. For further information please visit our website:
<https://nationalgrid.co.uk/Connections/Competition-in-Connections.aspx>

Your supply will have the following electrical characteristics

| | |
|-------------------------------|--------------|
| Voltage | 230 Volts |
| Phase | Single Phase |
| Agreed Import Capacity | 655kVA |
| Agreed Export Capacity | 0kVA |

Please note that the proposed works and estimated connection charge is for **guidance purposes** only and has been derived from a desk-top design exercise. It is non-binding and subject, in particular, to any legal permission, wayleaves and any other consents being successfully obtained. It is based on present day prices. It does not include the cost of any necessary on-site civil works, which should be provided by you at your expense.

Enclosures

Please also find enclosed:

- Our summary document entitled "Budget Estimates - Your Budget Estimate Explained"
- A drawing showing the indicative point of connection (POC) of the new assets to our existing distribution system, in relation to the proposed development. Plan Number: 5134488 Design Plan

Competition in Connections

The Budget Estimate is based upon NGED undertaking both the contestable and non-contestable connection works. You are able to seek competitive prices for some or all of the contestable elements.

You have the option to appoint an Independent Connection Provider (ICP) or Independent Distribution Network Operator (IDNO) to carry out some of the connection works, referred to as the Contestable Connection Works. Any connection works that can only be undertaken by NGED are referred to as Non-contestable Connection Works. See our enclosed Budget Estimate guide for more information.

Proposed Connection Works

Our estimate of the connection charge is for providing the following works:

Ring in 800kVA substation to 11kV mains and install 800kVA package substation. Lay LV mains throughout site and 145 domestic services

Please note that these proposals are based upon a desk top provisional investigation and no site visit or detailed study has been carried out.

The estimate does not include costs for any reinforcement or diversionary work that may be required, or for any environmental, or stability studies which may also be necessary, although these are generally only required for larger capacity connections.

Progression to Connection Offer stage

This Budget Estimate is not a legally binding contract, but sets out the amount we reasonably estimate we would require you to pay for the connection works under a formal Connection offer.

If you would like us to undertake a more detailed analysis, including an assessment of any network reinforcement required we can provide a formal Connection Offer. Further information regarding how to apply is provided in our enclosed summary guide.

Upon receipt of your application we will carry out detailed network studies to finalise the design of the connection works (and any associated reinforcement works), and provide a Connection Offer detailing the works required, the associated costs, timescales, payment terms and conditions for the connection.

If you have any queries regarding this Budget Estimate please do not hesitate to contact me via the contact details at the top of this letter.

Yours sincerely,

David Witherington
Planner





Budget Estimates

Your Budget Estimate Explained

September 2022

**Electricity
Distribution**

nationalgrid

A guide to help you understand your Budget Estimate and to outline your options for obtaining an offer to connect to NGED's Distribution System

Thank you for requesting a Budget Estimate for a connection to our distribution system. This guide is designed to help you understand the basis upon which the Budget Estimate is prepared and to highlight the options available to you should you wish to proceed to a formal offer for connection (the 'Connection Offer').

Budget Estimate

Provision of a Budget Estimate is a free of charge service, the purpose of which is to give you an indication of the likely cost of your connection(s). We do not carry out any detailed design work and the assessment is carried out as a desktop exercise that does not take account of any site specific considerations. You should note that the estimate that we provide at this stage may vary significantly from the price subsequently calculated in any Feasibility Study or Connection Offer. This is because it does not include the costs for any necessary network reinforcement, changed circumstances, or other influencing factors that come to light when the detailed investigation is undertaken. A Budget Estimate is not a formal offer for connection and cannot be accepted by you.

Exclusions from the Budget Estimate

Costs associated with the following activities are **NOT** included in the Budget Estimate:

- The diversion of our existing assets (if any) or any third party apparatus that is required
- Any associated reinforcement works
- Any on-site excavation and reinstatement
- The inclusion of any payment required in accordance with the Electricity (Connection Charges) Regulations 2017
- Any associated civil works, for example the provision of a substation plinth
- Detailed earthing studies are your responsibility
- Permits required under the Traffic Management Act 2004
- Out-of-hours working
- Legal requirements or consents
- Disturbing loads, for example motors, welders, electric vehicle chargers, heat pumps, etc.
- Any associated disconnections
- Any associated temporary supply

- Final competitive tenders and increases in labour, contract, or material costs
- Any required surveys, including any site survey
- Testing and commissioning (where applicable) that is undertaken in accordance with Engineering Recommendation G99 that must be witnessed by us
- Any impact on the transmission system and/or NGESO requirements arising

Application of the Electricity (Connection Charges) Regulations 2017 (ECCRs)

If your new electricity connection will connect to and utilise assets installed and paid for in respect to a previous connection the ECCRs may come in to effect. The ECCRs empower us to recover from you a proportion of those costs and refund the initial connection customer. Any calculated ECCR payments will be included in your Connection Offer.

Ways to proceed

If you want to take your enquiry further there are a number of ways you can proceed. You can request:

- A Feasibility Study; or
- A formal Connection Offer; or
- A Study & Offer quotation (Distributed Energy Resources (DER) only – limitations apply)

Feasibility Study

A Feasibility Study is generally used for more complex connections and involves a more detailed assessment that may consider a number of connection options. When more than one viable option is available we will provide estimated costs for each option. Once you have decided which option you would like to progress you can apply for a Connection Offer. There is a charge associated for this work; therefore we recommend you speak to your NGED contact first to find out more.

Formal Connection Offer

If you request a Connection Offer we will undertake a more detailed assessment of the network, design the solution, including any reinforcement required and calculate the associated connection charge. The Connection

Offer will include two options for acceptance. The first option will include a price for us to undertake all the connection works.

The second option will include a price for us to undertake just the works that only we are allowed to do; the 'non-contestable works'. You can get a competitive quotation for the remaining works; the 'contestable works' and may appoint an accredited Independent Connection Provider (ICP) to undertake these works. For further information please see our section on Competitions in Connections.

The Connection Offer is open for acceptance for 90 days and includes all our terms and conditions for connection. Once accepted it will become a binding contract between us.

The Connection Offer will include charges for the costs we incur in preparing it. For those Connection Offers that include an element of works at extra high voltage (22kV and above) we will charge you for the costs incurred regardless of whether or not you accept the Connection Offer (see 'Assessment & Design Fees' below).

Study & Offer Process

If you are unsure of the capacity you wish to connect, a Study & Offer quotation allows you to assess the capacity options available without submitting multiple formal applications. Please note that this option is only available for generation connections with export capacity of 5MVA and above.

Each application allows up to three different capacity options you may require. We conduct a Feasibility Study for the approximate cost and works required to connect the generation to our network. This includes an indication of any reinforcement or diversionary works that may be required.

The standard application form should be completed as well as an additional covering form for the Study & Offer process. For more information

www.nationalgrid.co.uk/connections-landing/connection-offers-and-agreements/types-of-connection-offer

Assessment & Design Fees (A&D Fees)

If your proposed electricity connection requires work at 22kV and above we will charge you for the time we spend preparing the connection offer in accordance with the Electricity (Connection Offer Expenses) Regulations 2018, (the 'A&D Fee'). We will require payment even if you do not accept the Connection Offer. The charge covers costs we reasonably incur when assessing the impacts of the proposed connection on the distribution/transmission system, designing the connection (including any

reinforcement works) and preparing the Connection Offer. Further information may be found on our website:

www.nationalgrid.co.uk/connections-landing/connections-regulations-and-policy/electricity-connection-offer-expenses-regulations

How to apply

You can apply in writing via the following addresses:

National Grid Electricity Distribution (East & West Midlands)

Records Team
6th Floor
Toll End Road
Tipton
DY4 0HH

NGED.newsuppliesmids@nationalgrid.co.uk

National Grid Electricity Distribution (South Wales)

Records Team
Phoenix Way
Swansea Enterprise Park
Llansamlet
Swansea
SA7 9HW

NGED.newsupplieswales@nationalgrid.co.uk

National Grid Electricity Distribution (South West)

Records Team
Lostwithiel Road
Bodmin
Cornwall
PL31 1DE

NGED.newsupplies@nationalgrid.co.uk

You can also apply **online**:

www.nationalgrid.co.uk/connections-landing/connecting-dwellings-or-commercial-premises/apply-online-for-a-new-connection

If you are unsure as to how to proceed you can also contact us to discuss your connection proposals further. Please see the 'Connection Appointments' section in this Guide.

Competition in Connections (CiC)

We offer a complete and comprehensive connection service but, if you wish, there are other companies you may ask to undertake some of the work known as the 'contestable' work. ('Non-contestable' works are the elements of the connections work which must be completed by NGED). An Independent Connection Provider (ICP) can build electricity networks for adoption by us or by an Independent Distribution Network Operator (IDNO).

An IDNO is a company that can construct electricity networks, arranges connections to NGED's network or adopt networks built by ICPs then retains ownership of and be responsible for the operation, repair and maintenance of that new network.

The ICP must be registered with Lloyds Register EMEA under the National Electricity Registration Scheme (NERS) and they are required to work in accordance with the national framework and NGED documents that provide specifications for design, material procurement and installation and recording of assets.

The new connection (up to the start of your electrical installation) will be adopted by us (where no IDNO is involved) and become part of our electricity network on satisfactory final inspection, testing and connection. We will own the new connection from that time, and will take responsibility for future operation, repair, maintenance and replacement (subject to any guarantee requirements of the Adoption Agreement).

More information regarding Competition in Connections can be found on our website at

www.nationalgrid.co.uk/connections-landing/competition-in-connections

Safety

If you are already on site, or about to move on to site, please remember to take adequate precautions to protect yourself from potential electrical hazards.

Overhead Lines

Particular care must be taken in the handling of mechanical plant, cranes, scaffolding or ladders in the vicinity of our overhead lines. You should always seek guidance before any work takes place on site from your appointed Site Manager, who will ensure that all works are carried out safely and in accordance with Health and Safety Guidance Instruction GS6 – Avoidance of Danger from Overhead Electric Power Lines. (hse.gov.uk/pubns/gs6.htm)

Safe Excavation

Obtain the latest copies of our cable records for the site from linesearchbeforeudig.co.uk. You must excavate by hand digging trial holes to establish the actual positions of all cables before any mechanical excavation works commence. Please contact your Site Manager who will help you ensure that all your works are carried out safely and in accordance with Health and Safety Guidance Instruction HSG47 – Avoiding Danger From Underground Services. (hse.gov.uk/pubns/gs47.htm)

Legal Permissions and Consents

We have a legal obligation to provide new electricity connections, as well as to maintain and upgrade the existing distribution system in our area. For a new connection we need land rights to install and thereafter use, maintain and renew our equipment on privately owned land. When this is necessary we secure our equipment by legal agreement (Wayleaves and/or Deeds) with landowners. This helps to ensure that the equipment stays where it has been placed and can be maintained when necessary.

All land rights/legal and consents must be in place before we install and energise a new connection to our network. It is important that customers/developers are aware that the statutory process for acquiring compulsory land rights can be time consuming, it is not guaranteed to be successful and could be extremely costly. For this reason you should be prepared and if a third party is involved in the scheme, to start the negotiations before instructing us to pursue the compulsory land rights process.

Please note that we cannot energise our equipment until land rights are legally secured.

Please see the Legal Process on our website –

www.nationalgrid.co.uk/connections-landing/legal-permissions-and-consents

National Grid Electricity System Operator (NGESO) – The Electricity Transmission System

Larger installations, (typically generation requiring 1MW of export capacity and above and demand requiring 10MW of import capacity and above) may have an impact on the National Grid Electricity System Operator (NGESO) transmission system. Although we may flag any existing limiting network conditions in your Budget Estimate, it does not take account of any impact of the proposed connection(s) on the transmission system, including the outcome of any modification application that we may be required to submit to NGESO.

We may be required to request a 'Statement of Works' from NGESO in accordance with section 6.5.5, or a Modification in accordance with section 6.9 of the Connection and Use of System Code (the "CUSC") in order to ascertain the effect of the proposed connection on the transmission system. On receipt of this request, NGESO will consider, in accordance with the CUSC, whether or not a formal modification application is required.

For further information concerning the Statement of Works process please see our website – www.nationalgrid.co.uk/our-network/statement-of-works

Further Network Information

We have a large range of network asset data available for access by third party users through a variety of services.

Constraint Maps

The constraint map provides an overview of our EHV networks (33kV and above), highlighting those circuits which are operating at or near their limits for the connection of any further Distributed Generation (DG)

Please see the constraint maps for all four NGED areas on our website –

www.nationalgrid.co.uk/our-network/distributed-generation-ehv-constraint-maps

Network Capacity Maps

The network capacity map provides an indication of the networks capability to connect large-scale developments to major substations. The network capacity map is a guide to show the network where a connection is more likely to be achieved without significant reinforcement.

The map does not replace a full Formal Application in determining network capacity.

Please see the capacity map on our website for a login – www.nationalgrid.co.uk/our-network/network-capacity-map

Alternative Connections

NGED offers alternative connections, which enable customers willing to have their capacity temporarily reduced to connect ahead of the required reinforcement without contribution. The level of curtailment experienced by the

connection can be fixed or dynamic, depending on the type of alternative connection offered.

Please see alternative connections webpage – www.nationalgrid.co.uk/connections-landing/connection-offers-and-agreements/alternative-connections

Flexible Power - Flexibility

DNO's are committed to openly comparing reinforcement and market flexibility, it has become one of the new fast moving areas when it comes to managing electricity distribution networks.

Any significant reinforcement scheme once at feasibility study or formal offer stage will require a flexibility assessment.

For more information, please visit

www.nationalgrid.co.uk/network-flexibility-map

Connection Appointments

Make an appointment with an engineer to discuss your requirements and the connection process ahead of making an actual application for a connection to the network.

To find out more or make an appointment

Call;

South Wales & South West: **0800 028 6229**

East & West Midlands: **0800 121 4909**

Email:

NGED.connectappoint@nationalgrid.co.uk

national**grid**

