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Hanbury (PM) Ltd

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Report

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September 2019

SHRI PNEY ROAD, SHRI PNEY UTILITY ASSESSMENT REPORT



SHRIPNEY ROAD, SHRIPNEY

Revision **B**
Date **18/ 09/ 2019**
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Approved by **Sammie Pope**
Description **Assessment**

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EXECUTIVE SUMMARY

Ramboll UK Limited ('Ramboll') has been appointed by Handbury (PM) Ltd ('client') to carry out a review of the existing utility services provision to the site at Shripney Road, Shripney, West Sussex and adjacent land and to initiate discussions with the local utility providers to service the proposed development.

The report summarises a desktop exercise comprising load assessments for the new development, record information of existing utility network assets, quotation proposals from the relevant utility supply companies and an outline strategy for how the future development may be served.

Details of the load assessments are contained within Section 2. Some utility services may require reinforcement to accommodate the proposed development. A network study is usually carried out by utility companies at the stage a firm quotation is requested.

The following provides a summary of new services required to serve the new development:

- Clean water – new water main plus branch connections required for residential units;
- Power – extension of the existing LV network from the adjacent substation and provision of power connections;
- Gas – new gas services required for residential units

Note that for the purpose of getting the utilities provisional and budget quotation it was considered 50 residential units, however, for planning it will only be 46 residential units.

Utility provision and budget quotations are summarised as follows:

Utility Service	Site Status	Utility Supplier	Quotation/ Comment
Clean water	Available	Portsmouth Water	£54,000 to £57,000 – on-site mains £42,500 – service connections
Gas	Available	SGN	£39,000
Electricity	Available	SSE	£53,156.48
Data/comms	Available	BT	Free FTTP

Note the exclusions listed in the quotations and described in this report e.g. particularly relating to on site excavation and civil works.

It is recommended that all utility proposals and costs are updated to reflect the scheme design as it develops from the concept that formed the basis of this assessment.

1. INTRODUCTION

- 1.1.1 The following is a utility report for the proposed development on a 2.1Ha site located on Shripney Road, Shripney, West Sussex for 46 residential units.

2. THE PROPOSED DEVELOPMENT

- 2.1.1 Site of the proposed development is located north of Bognor Regis and currently consists of undeveloped grassland. Main access to the site is proposed at A29 which runs alongside the west site boundary.



Figure 1: Site Boundary

- 2.1.2 At the time of this report being produced, a site plan in Figure 2 was used for assessment purposes.

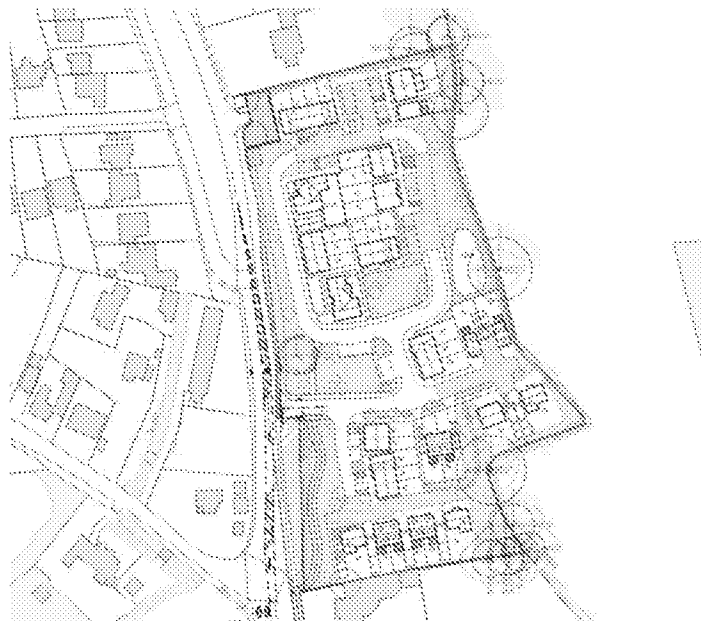


Figure 2: Site Plan

2.1.3 Based on the site layout above, the following load assessments were made for the new buildings.

Table 2.1. Load Assessment

	Number	Gas (kW and kWh)	Water (l/s)	Power per unit
Housing	50	2,730kW (peak connected load – expected to reduce on final design) 979,600kWh estimated annual consumption (figures based on gas authority figures per house)	Determined by water authority based on quantity of housing.	1/2 bed – 1.5kVA 3/4 bed – 2kVA

3. EXISTING UTILITY SEARCHES

3.1 Record Information

- 3.1.1 An existing utility search was carried out in July 2019 for the proposed Shripney Road development.
- 3.1.2 The table below, Table 3.1: Existing Utility Search, lists all the companies who have been contacted and their search results.
- 3.1.3 The only companies who have apparatus in the area are Portsmouth Water (Mains Water), Southern Water (Waste Water), Southern Gas Networks, BT, Scottish and Southern Energy (Electric). Their existing utility drawings can be found in Appendix A.

Table 3.1: Existing Utility Search

Asset Owner	Apparatus Status
Southern Water - Foul	Present – Refer to drawings SU9302SE – Appendix A
Portsmouth Water - Mains	Present – Refer to drawing SU9302SE – Appendix A
Scottish & Southern – Electric	Present – Refer to drawings HV Site & LV Site- Appendix A
BT	Present – Refer to drawing UQX09281O - Appendix A
SGN - Gas	Present – Refer to drawing 15839525 – Appendix A

- 3.1.4 In addition, an enquiry was made to 'Line Search' and the results are indicated in Table 3.2A: Line Search. Below are the results from further companies we contacted for existing utility information in the development area.

Table 3.2A: Line Search

Company	Response
CenturyLink Communications UK Ltd	Not in the area of interest
CityFibre	Not in the area of interest
Colt	Not in the area of interest
Energetics Electricity	Not in the area of interest
ENGIE	Not in the area of interest
GTC	Not in the area of interest
KPN (c/-Instalcom)	Not in the area of interest
Mobile Broadband Network Limited	Awaiting Response
Sky UK Limited	Not in the area of interest
Sota	Not in the area of interest
Utility Assets Ltd	Awaiting Response
Verizon Business	Not in the area of interest
Vodafone	Not in the area of interest
Virgin Media	Awaiting Response

3.1.5 The information listed above is based on existing record information from the utility suppliers and should be confirmed by a buried services scan prior to any works commencing.

3.1.6 Line search results are indicated in the following table – Table 3.2B: Line Search. No apparatus is located in the search area.

Table 3.3B. Line Search (LSEUD)

List of not affected LSEUD members		
AWE Pipeline	Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)
BP Exploration Operating Company Limited	BPA	Carlington Gas Pipeline
CATS Pipeline c/o Wood Group PSN	Cemex	Centrica Storage Ltd
CUH Pipeline System Ltd	Concept Solutions People Ltd	ConocoPhillips (UK) Ltd
DiO (MOG Abandoned Pipelines)	Drax Group	E.ON UK CHP Limited
EnGrid	Electricity North West Limited	ENI & Hincor c/o Penspen Ltd
EnQuest NNS Limited	EP Langage Limited	ESP Utilities Group
ESSAR	Esso Petroleum Company Limited	Futura Pipelines Limited
Gamma	Gateshead Energy Company	Gigaclear Ltd
GE	Hallen Dyfslwy	Heathrow Airport LTD
Humbly Grove Energy	iGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVIN Enterprises Limited	Intergen (Conylon Energy or Spalding Energy)
Mainline Pipelines Limited	Manchester Jetline Limited	Mari Cable Company
Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited	Murphy Utility Assets
National Grid Gas (Above 7 bar), National Grid Gas Distribution Limited (Above 2 bar) and National Grid Electricity Transmission	Northumbrian Water Group	NPower CHP Pipelines
Oikos Storage Limited	Orsted	Perenco UK Limited (Purbeck Southampton Pipeline)
Perenco UK Limited (Purbeck Southampton Pipeline)	Petrobras	Phillips 66
Premier Transmission Ltd (SNIP)	Prysmian Cables & Systems Ltd (c/o Western Link)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Section to Great Yarmouth Power Station)	RWEpower (Little Barford and South Haven)	SABIC UK Petrochemicals
Scottish Power Generation	Seabank Power Ltd	Severn Trent (Chester area only)
Shell (St Fergus to Mithramoran)	Shell Pipelines	SSE (Paisley Power Station)
Tate Communications (c/o JSM Construction Ltd)	Total (Ordnance & Cowick Pipelines)	Total Fina Line Pipelines
Transmission Capital	UK Power Networks	Uniper UK Ltd
Vattenfall	Vertis ES SELCHP Limited	Wales and West Utilities
Western Power Distribution	Westminster City Council	Zain Group UK Ltd c/o JSM Group Ltd

3.2 Existing Electricity Network

3.2.1 There is an existing substation (Barn Lane Substation) located on the top left-hand corner of the site, adjacent to the A29. Scottish and Southern Energy (SSE) has an underground High Voltage (HV) cable (11Kv 95x3C Al CAS U/A) going from the substation and across the width of the site.

3.2.2 Existing overhead Low Voltage (LV) cables run parallel to the site down the A29. These cables are mounted on 8m wooden poles. They enter the site in the top left-hand corner to the substation

and a small feeder pillar for the foul water pumping station which is located opposite the substation.

- 3.2.3 The overhead LV cables enter the site in the top left-hand corner to the substation. These cables run parallel to the site and along the entire A29.

3.3 Existing BT Network

- 3.3.1 BT Openreach has existing overhead telephone lines which provide telecom services for the adjacent residential development running parallel down the A29.
- 3.3.2 There is an existing overhead telephone cable entering the site in the top left-hand corner adjacent to the A29 and next to the electrical substation. The overhead cable is connected to a 9-meter wooden pole and goes on to supply the houses located next to the top of the site.

3.4 Existing Gas Network

- 3.4.1 The gas transporter is Southern Gas Networks (SGN). Records show there is an existing low-pressure mains network running parallel to the site down the A29. The two pipes indicated are a 10-inch Cast iron pipe and a 4 inch Spun Iron pipe.
- 3.4.2 There are no known existing LP gas services in any other part of the site which will affect the proposed development and no diversion works are therefore necessary.

3.5 Existing Mains Water Network

- 3.5.1 Mains water supplies in the area are provided by Portsmouth Water. Records show a 18-inch Cast iron buried service running diagonally across the site and also 9-inch and a 12-inch pipes running parallel to the site down the A29.

4. CONSTRAINTS OF EXISTING UTILITIES

4.1 Power

- 4.1.1 The existing HV cable running across the top of the site will have a wayleave requiring access to the cable for maintenance. The cable can either be diverted from the site or an exclusion zone of 1.5m either side should be applied.
- 4.1.2 The existing LV cable which runs parallel to the site and the A29, the overhead cable will possibly cross over the site entrance. These cables will either need to be diverted and relocated to facilitate the site construction or special care will need to be taken with vehicles and plant crossing underneath. The minimum LV cable height is 5.8m therefore vehicles need to avoid this area.

4.2 Telecom

- 4.2.1 An exclusion zone around the existing BT Openreach pole of 1m will be required for access or the existing overhead telecom cables by BT Openreach will need to be diverted away from the development site to facilitate construction.
- 4.2.2 It is likely that the new residential site will require significant infrastructure upgrading to provide for the number of dwellings envisaged.
- 4.2.3 Discussion with BT Openreach will need to be carried out at the next design stage to fully determine the requirements.

4.3 Mains Gas Services

- 4.3.1 The existing gas supplies are at Low Pressure and serve the existing residential developments adjacent to the proposed site. It is likely that these existing gas supplies will be undersized to provide the additional gas required for the new development.
- 4.3.2 It is likely that off-site upgrading of the infrastructure will be required to achieve sufficient capacity within the existing network; to provide the gas services for the proposed development.
- 4.3.3 Exact details and arrangements which may be required and any associated costs cannot be estimated until further details of the site and its make up are determined and an application for connection is made to the DNO at the next design stage.
- 4.3.4 During the next stage of works, costs will be obtained for the required Gas supply, which can then be used to determine whether Gas heating or electric heat pump heating will be most suitable for the development.

4.4 Mains Water Services

- 4.4.1 The existing water services running along the A29 include 9" and 12" pipes shall be sufficient to feed the proposed site. However, the available capacity of the water main will need to be confirmed by Portsmouth Water at the next design stage.
- 4.4.2 The existing 18" pipe running across the site will require a ten-metre protected strip (5 meters on each side) around this size of pipes. In addition, the surface level within the ten metres should not be permanently raised by more than 300mm or lowered by more than 75mm. To investigate

the feasibility of relocating the existing pipe, an application for budget quotation for diversion cost has been submitted to Portsmouth Water.

4.5 3.10 Diversions

- 4.5.1 Where services are located in the vicinity of the proposed site entrance, it is estimated that these will need to be diverted to allow for the additional traffic. Applications for the cost of diversion works have not been included as part of the study.
- 4.5.2 Where services enter into the site boundary diversions may be required to accommodate the proposed development. Alternatively, exclusion zones could be applied and the masterplan designed for.

5. PROPOSED UTILITIES STRATEGY

This section describes the purpose utility strategy to service the development. The initial findings and strategy may be updated following feedback from the utility providers.

Note that for the purpose of getting the utilities provisional and budget quotations it was considered 50 residential units, however, for planning it will only be 46 residential units.

5.0 Electrical Supplies

- 5.0.1 A pre-development budget quotation to provide individually metered power supply to each dwelling was requested from Scottish & Southern Electricity Networks (SSE). This was based on the load assessment from Table 2.1.
- 5.0.2 SSE has provided a budget quote of £53,156.48 to provide 50 new power supplies. The quotation includes extension of the existing LV mains network onto the site and installation of Ryefield units in the communal areas of the blocks of flats.
- 5.0.3 The quote provided assumes that there is no need for the network reinforcement to accommodate the proposed development. Network study will be carried out by SSE when application for firm quotation is supplied. The firm quotation will then include any costs associated with network reinforcement.
- 5.0.4 SSE assumes that all on site excavation and reinstatement will be provided by the developer/their contractor.
- 5.0.5 A finalised agreed site layout, and detailed accommodation/loading schedule is required to enable a detailed quotation to be produced in the future.

5.1 Telecomms and Data

- 5.1.1 An existing telecom network exists for the housing in the area and is distributed by high level telegraph poles.
- 5.1.2 An underground network of data cables will be required within the development for telecom and data services. Generally, the developer will install underground ducts to facilitate the installation of cables by BT.
- 5.1.3 BT provides all new housing developments which consist of more than 30 dwellings with Fibre to the Premises free of charge. A confirmation from BT was received that this is available at the proposed site.

5.2 Gas

- 5.2.1 A budget quotation to provide individual utility metered gas supplies to each dwelling was requested from Southern Gas Networks. SGN determine new connections based on standard demand figures for residential units of 60 kW peak demand and 20,600 kWh annual demand per unit.

5.2.2 SGN has provided a budget quotation of £39,000 to connect from existing 10inch Cast iron LP main in Shripney Road and to install an appropriately sized gas infrastructure to suitable locations for 50 new domestic properties in the area.

5.2.3 The quotation is based on providing the maximum connected load; this can be reviewed during the detailed design and potentially a diversity factor applied to reduce the demand requested.

SGN have confirmed that no reinforcement work on the existing Low Pressure gas network will be required to accommodate the proposed development. This is based upon current network model data which is subject to change and will be evaluated in the next stage of work to confirm if reinforcement is required and what the associated costs are.

5.2.4 SGN assume no easements or third party permissions are required to carry out the work. However, if a governor is located on development land, then an easement will be required.

5.2.5 SGN assume the developer/their contractor will carry out all excavation work and reinstatement work. SGN has not included for meter boxes and meters, those will need to be supplied by the contractor.

5.3 Mains Water

5.3.1 A budget quotation to provide individual utility metered water supplies to each dwelling was requested from Portsmouth Water. Portsmouth Water determine new connections based on standard demand figures for residential units.

5.3.2 A budget quote for new connections to the proposed site was received which estimates costs for laying of on-site mains to be between £54,000 and £57,000. The quote does not include the cost for service connections but Portsmouth Water advises to budget for £850 per plot. Based on that figure, the total estimated cost for service connections of individual dwellings would be about £42,500.

5.3.3 Portsmouth Water confirmed that the proposed development will not require any off-site reinforcement works.

5.3.4 An application for budget quotation for diversion of the existing 18-inch pipe was also submitted. A proposed diversion route was discussed and agreed upon with Portsmouth Water and can be found in Figure 3.

5.3.5 A budget quote for the diversion cost was estimated to be between £164,000 and £170,000.

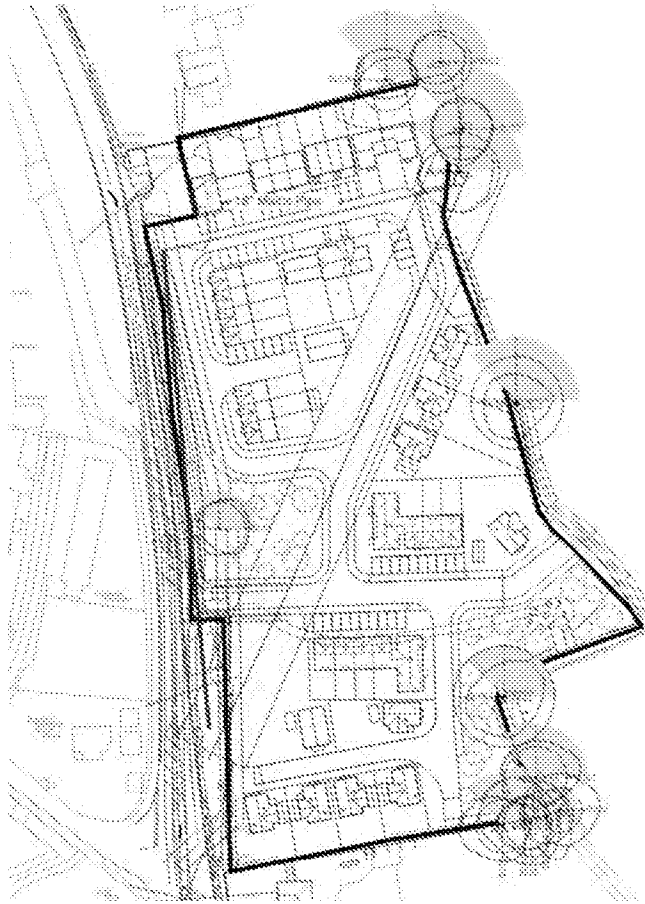


Figure 3: Proposed Diversion Route

5.4 Proposed Utilities Services Diagram

5.4.1 The proposed utilities diagram is located here:

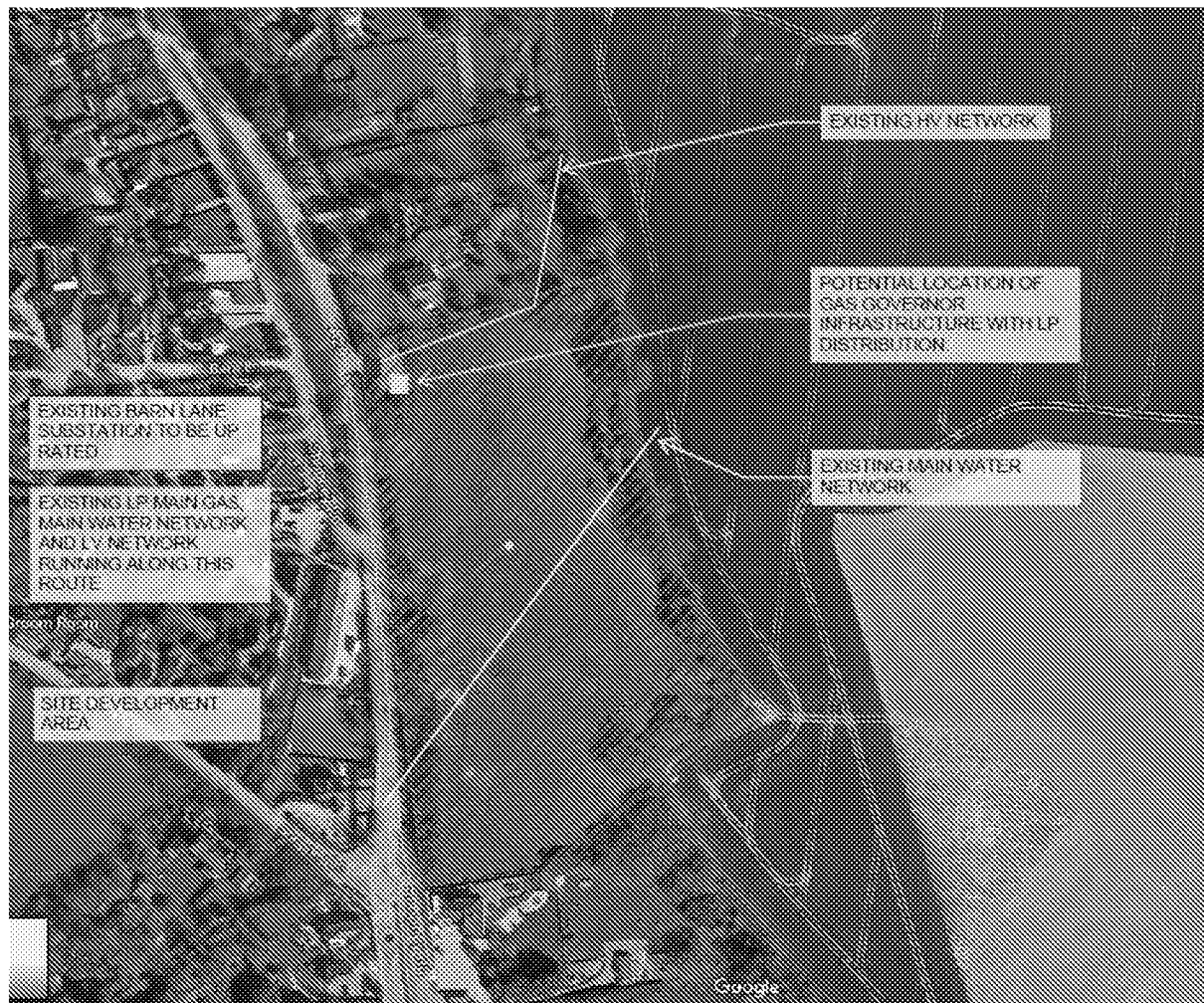


Figure 4: Proposed Utilities Services Diagram

APPENDIX A

EXISTING UTILITY SEARCHES INFORMATION

Site HV Record Information

Site LV Record Information

Site SGN Record Information

Site Water Record Information

Site Drainage Record Information

Site BT Record Information



l.v./services	- up to 1000V.
h.v.	- over 1000V. to 11,000V.
e.h.v.	- 22,000V. to 132,000V.

There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)

If you are unsure & need to seek advice before commencing excavations please contact
PORTSMOUTH
023-9262-4200

MSS336307



NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH/UNMADE	0.45m	0.45m	0.60m	0.80m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
AGRICULTURAL	1.00m	1.00m	1.00m	1.10m
l.v./services – up to 1000V. ARUN DISTRICT COUNCIL BE/109/19/OUT h.v. – over 1000V. to 11,000V. e.h.v. – 22,000V. to 132,000V.				

WARNING

There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)

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PO22 9NX

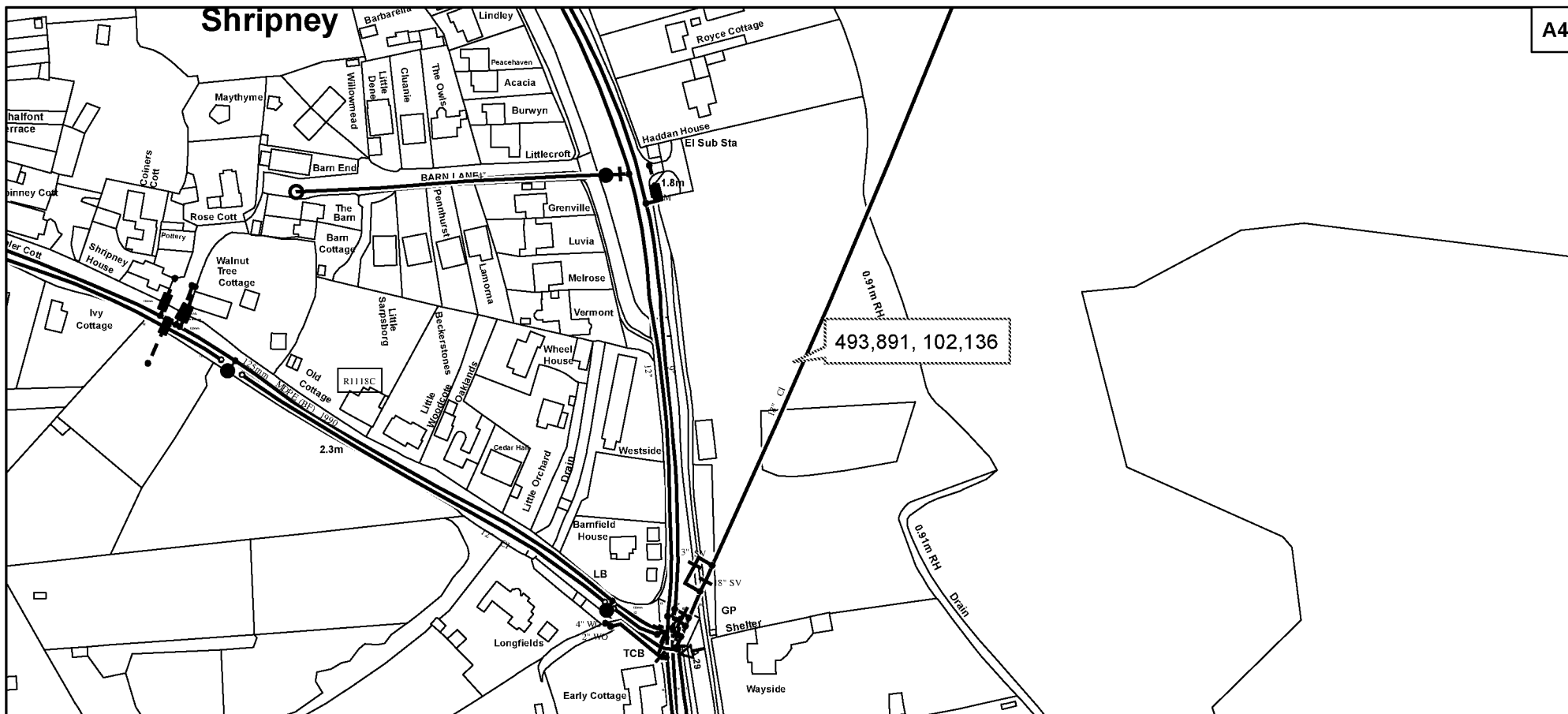
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Subject to Revision Master held at

 **Scottish & Southern**
Electricity Networks

If you are unsure & need to seek advice before commencing excavations please contact
PORTSMOUTH
023-9262-4200

L.V. MAINS RECORD	
Grid Ref:	SU93890213
Scale:	1:1250
Date:	25/06/2019
MSS336307	



A4

	EXISTING MAIN		COMPANY WASHOUT		WO TO BE CUT OUT UNLESS PURCHASED BY LOCAL AUTHORITY
	ABANDONED MAIN		WASHOUT FIRE HYDRANT		FH TO BE CUT OUT UNLESS PURCHASED BY LOCAL AUTHORITY
	PROPOSED MAIN		FIRE HYDRANT		WOFH TO BE CUT OUT UNLESS PURCHASED BY LOCAL AUTHORITY
			PROPOSED FIRE HYDRANT		

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	The information supplied is given in good faith as a guide to locating underground apparatus. Its accuracy cannot be guaranteed, nor does it include comprehensive information about the existence or location of service pipes or cables to individual premises. The responsibility for locating and avoiding damage to apparatus on site shall be that of the person proposing to excavate in the street who shall be liable to the apparatus owner and any third party who may be affected in any way for the loss or damage caused by their failure to do so.		Job No:
			OS Ref: SU9302SE
			Scale: 1:2,379
			Date: 10/07/2019

APPENDIX B

WATER SERVICES QUOTATION, NEW SUPPLIES



19th July 2019

FAO Ms M. Pistkova
Graduate Engineer, Building Services
Ramboll
Carlton House
Ringwood Road
Woodlands
Southampton
SO40 7HT

Registered Office:
Portsmouth Water Ltd
PO Box 8
Havant
Hampshire PO9 1LG

Tel: 023 9249 9888
Fax: 023 9245 3632
Web: www.portsmouthwater.co.uk

Please ask for: **New Developments**
Our Ref: **F4953**
Your Ref:

Dear Ms Pistkova,

F4953 – 41 PLOTS, OLDLANDS FARM, SHRIPNEY ROAD, PO22 9PA - PRE-DEVELOPMENT ENQUIRY

Thank you for your payment of £149.00 plus VAT paid for a pre-development enquiry in respect of water mains at the above location. Our official invoice has been forwarded under separate cover.

In response to your enquiry I would comment as follows:-

1. On-Site Mains

We have estimated the cost of mainlaying to the 41 domestic units and the diversion of our 18" water main based on the drawing you recently provided, drawing No. DLA.1830.L06.S01.

1. The Developer Contribution cost to requisition these mains has been estimated at between **£16,000 and £17,000.**
2. The Asset Payment if the mains are to be Self-Laid has been estimated at between **£38,000 and £40,000.**

This estimate is only valid for **3 months** from the date shown at the top of the letter.

2. Mains Network and Capacity

The above proposal will not require off-site reinforcement works.

Network reinforcement works for new developments will be delivered by us with the cost recovered through Infrastructure Charges.

More information can be found in our Developer Services Charging Arrangement document available on our website: <https://www.portsmouthwater.co.uk/wp-content/uploads/2019/01/Developer-Services-Charging-Arrangements-2019-20-Document.pdf>

Registered in England No.2536455

3. Diversionary Work

Based on your Drawing number DLA.1830.L06.S01, no diversionary work to our 18" main would be necessary. From the correspondence between Ramboll and Portsmouth Water, it was agreed that a cost would be offered to divert our 18" main from its current position. In subsequent discussions, your Option 2 was considered to be the most practicable route. If we were to divert the 18" main as indicated by your Option 2, the likely cost would be between **£164,000 and £170,000**.

4. Service Connections

The cost of service connections is not included within this estimate. You are advised to budget for **£850** per plot.

The maximum domestic water supply connection is 25mm external diameter.

5. Pressure

We have a duty to provide a minimum guaranteed water pressure of 10 metres head (1 bar). This minimum standard is measured at the stop valve which is usually situated at the boundary of the property. Operationally throughout our area of supply our water pressure varies. We do, however, aim to provide a working pressure of approximately 15 metres head (1.5 bar).

Some of our customers require continuous water pressure above the minimum guaranteed standard. This can be achieved through a combination of water storage and a pressured boosted system.

6. Terms and Conditions

If you proceed with this development and apply for a full Mains Design you will be offered two payment options for the mains requisition with our terms and conditions for the provision of mains.

The options are:

(a) **Developer Contribution**

This is the amount the Developer is required to contribute towards the total cost of the mains requisition. This is calculated based on our Developer Services Charging Arrangements and includes an 'Income Offset' which is a financial contribution made towards the cost of the requisition based on the additional income that will arise from connections to the new water main.

(b) **Asset Payment**

This is the payment that will be made to the Developer if they choose to appoint a Self-Lay Organisation to provide the water mains for their development. The Gross Asset Payment which is equal to the 'Income Offset' will be subject to deductions for the cost of any works undertaken by us to give the Net Asset Payment.

Please note that the terms and conditions do not include for the cost of service connections or building water supplies. Please apply to our New Services Team following the issue of your terms and conditions.

An Application form and supporting information regarding New Services is available in our Developer section of our website: <https://www.portsmouthwater.co.uk/developers/new-services/>

7. Existing Mains and Services

The enclosed extract of Ordnance Survey sheet shows our existing water mains in a black line. I regret that I am unable to indicate any other water services that have been taken from these mains but where there are surface stopcock or meter boxes, it can be assumed that a service has been connected to the main. Should accurate information regarding the Company's installation be required, then trial holes should be taken by hand digging, no mechanical plant should be used within two metres of the Company's mains.

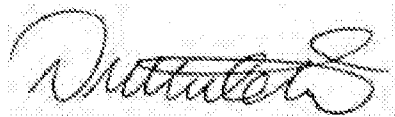
Please note that all enquiries regarding sewerage should be directed to Southern Water, who is the responsible undertaker in this area.

8. Contaminated Land

Certain soil contaminants can permeate polyethylene water pipes. We require a soil investigation report in order to determine the appropriate material of water main to install, to ensure the wholesomeness of our water supplied for this development. As a soil investigation report has not been provided we have assumed for the purpose of this estimate that this site to be contaminated and estimated for an impermeable barrier pipe to be installed.

If you wish to proceed with this development and apply for a full Mains Design please contact our New Developments Team on 02392 249327 or email new.developments@portsmouthwater.co.uk.

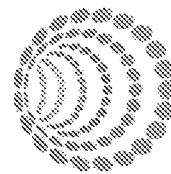
Yours sincerely,

A handwritten signature in black ink, appearing to read 'J Hutchison', written over a light grey grid background.

Jim Hutchison
Developer Services Engineer

APPENDIX C

GAS SERVICES QUOTATIONS, NEW SUPPLIES



SGN
Connections

8 August 2019

Our Ref: 1879078

Your Ref: N/A

SGN Connections
St Lawrence House
Station Approach
Horley
Surrey
RH6 9HJ

RAMBOLL
CARLTON HOUSE,
RINGWOOD ROAD,
SOUTHAMPTON,
HAMPSHIRE,
SO40 7HT

Customer Service **0800 912 1700***

Dear Michaela Pistkova,

New Connections at LAND EAST OF SHRIPNEY ROAD, BOGNOR REGIS, PO22 9PA

Thank you for choosing us to give you a budget indication for x50 new connections at the above site, and please find our estimate below.

Work to be carried out

SGN Connections to install appropriately sized gas infrastructure to suitable locations. Customer to carry out all the necessary excavation and reinstatement work within the site boundary. No meter work is included.

Your budget indication is £39,000 (inc VAT)

Please note that this figure is a budget indication only, it is based upon an hourly load of 2,730kW and an annual quantity of 979,600kWh along with any other information you've given us, and doesn't represent an offer to carry out the work.

SGN can confirm that there is sufficient capacity in its Low Pressure network to accommodate this development. This is based upon current network model data which is subject to change. Upon receipt of an application for a firm quote, we will evaluate the actual work required and let you know if any reinforcement is required and if any costs will be applicable.

An on-site Easement will be required to lay new mains within the site boundary.

Please note that this budget indication doesn't allow for any diversion of our existing infrastructure if we find it's necessary. You can get further detail on this by calling our customer service line on the number at the top of this page and asking to speak with the Mains Diversions and Isolations team.

If you have any further questions, please feel free to contact me by calling our customer service team on the number at the top of this letter and asking to speak with the undersigned.

Yours sincerely

Neil Tomsett
Process Assistant

* All calls are recorded and may be monitored

Smell gas?
Call 0800 111 999

SGN Connections Limited
Registered in England & Wales No. 05618826

NF129b v5.0

Registered Office: St Lawrence House | Station Approach | Horley | Surrey RH6 9HJ

ARUN DISTRICT COUNCIL 22/08/2019

APPENDIX D

ELECTRICAL SERVICES QUOTATIONS, NEW SUPPLIES

Our reference: EPP590

Mrs Helen Smith
Ramboll
Carlton House Ringwood Road
Woodlands
Southampton
Hants
SO40 7HT

Southern Electric Power
Distribution Plc
Connections South,
Walton Park,
Walton Road,
Cosham,
PO6 1UJ



+44(0)7920272218



Sarah.bowey@sse.com



www.ssen.co.uk

Date: 05th August 2019

Dear Mrs Smith,

Re: Budget quotation for 50 New Connections at site Land East of Shripney Road, Shripney Road, Bognor Regis, West Sussex, PO22 9PA

Thank you for your recent enquiry. I am pleased to provide you with my budget estimate for the new electricity connection at the above development. I have enclosed a copy of our cable records for your information. My initial proposals will be subject to our obtaining all necessary legal consents to carry out the work as indicated; including any consent's required from third parties.



53,156.48

This budget estimate has been calculated inclusive of vat.
and does not constitute an offer of terms

Please be aware this estimate reflects the current situation and cannot be guaranteed into the future. This estimate does not include necessary reinforcements on the wider network that may be triggered by this connection. Any necessary reinforcements would be identified in a formal connection offer, and part or all of the cost of these reinforcements would be included in the connection charge. 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 proposes 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.ssen.co.uk.

Yours sincerely,
Sarah Bowey

Connections Quoter

Scottish and Southern Energy Power Distribution is a trading name of: Scottish and Southern Energy Power Distribution Limited Registered in Scotland No. SC213459; Scottish Hydro Electric Transmission plc Registered in Scotland No. SC213461; Scottish Hydro Electric Power Distribution plc Registered in Scotland No. SC213460; S+S Limited Registered in Scotland No. SC214382 (all having their Registered Offices at Inveralmond House 200 Dunkeld Road Perth PH1 3AQ); and Southern Electric Power Distribution plc Registered in England & Wales No. 04094290 having its Registered Office at 55 Vastern Road Reading Berkshire RG1 8BU which are members of the SSE Group

www.ssepd.co.uk

These budget costs are based on the following:

SSEN to extend the LV mains network onto the new development and install 50 connections. SSEN to carry out all off site excavation and reinstatement works including traffic management. Customer to carry out all on site excavation and reinstatement works, provide open trenches for the mains cable and install ducting for each service cable. Customer to provide communal area for each Ryefield Unit for the flats and either space inside each flat for the metering equipment or a communal area. Customer to contact a Supplier of choice to install the meters. SSEN are not a Supply company and we cannot install meters.

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 Electricity Networks 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 Electricity Networks.

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

The drawings that I have enclosed with this quotation are not suitable for 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.



Residential			
	Affordable	Market	Total
1 Bedroom	5	4	9
2 Bedroom	6	12	18
3 Bedroom	2	16	18
4 Bedroom	1	4	5
			50
Open Space		2660 sqm	

THIS DRAWING SHOULD NOT BE SCALED.
THIS DRAWING IS COPYRIGHT.

CLIENT:
Hanbury Properties

PROJECT:
Land East of Shripney Road, Shripney

DRAWING TITLE:
Preliminary Illustrative Layout

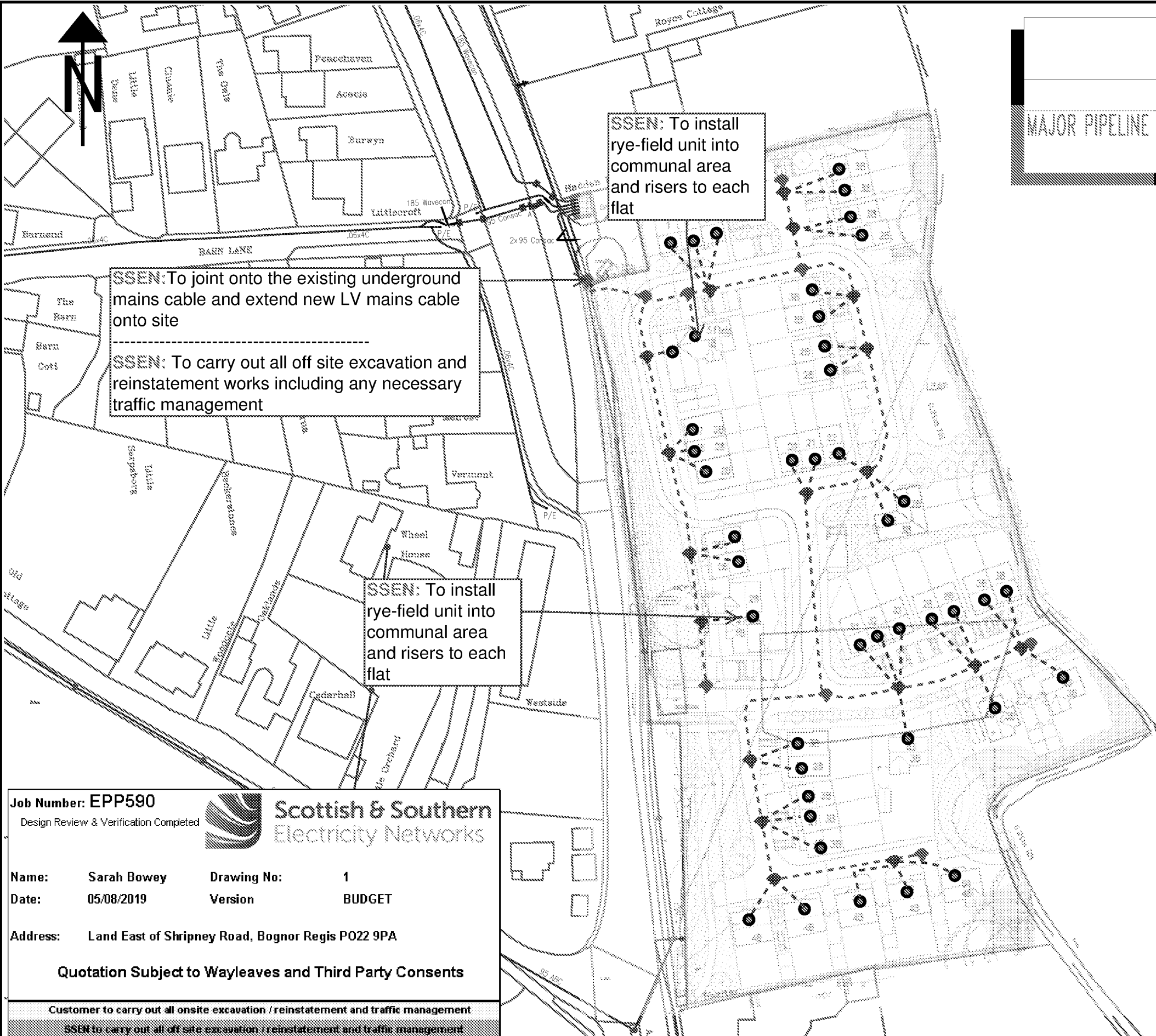
DAVIESLANDSCAPE
ARCHITECTS
Suite F1, Stroud House, Russett Street, Stroud, Gloucestershire, GL5 3AN
t. 01453 790380 e. info@dl.co.uk w. www.dl.co.uk

DATE: 15.07.2019 SCALE: 1:1000@A3

JOB NO.: 1948 DRAWN BY: MD

DWG NO.: DLA.1948.L06 REV: 03

V:\Server\DATA\PROJECT FILES\1948 Land East of Shripney
Ref:\Landscape\Drawings\Sketch\DLA.1948.L.06.S - Carl Layout
Plan\DLA.1948.L.06.S03 Carl Layout Plan.dwg



WARNING

ENVIRONMENTAL ISSUES IN PLOT AREA

MAJOR PIPELINE WITHIN 50M VICINITY CONTACT WWW.LINESEARCHBEFOREUDIG.CO.UK OR PIPELINE OPERATOR. (OTHERS MAY EXIST)

SSEN: To install single phase 100amp supplies into each house. Services to be within 20m of mains cable (BLUE DOTTED LINES)

CUSTOMER

- To carry out all on site excavation and reinstatement works
- Provide open trenches for the mains cables
 - Provide and install ducting for each service cable
 - Provide either external meter cabinets or internal wall space for the meters for the houses
 - Provide a communal area large enough to house the Ryefield unit for each block of flats and either ducting to each flat for the risers, or enough wall space in the communal cupboard for the suppliers meters.

Job Number: EPP590
Design Review & Verification Completed

**Scottish & Southern
Electricity Networks**

Name: Sarah Bowey

Drawing No: 1

Date: 05/08/2019

Version BUDGET

Address: Land East of Shripney Road, Bognor Regis PO22 9PA

Quotation Subject to Wayleaves and Third Party Consents

Customer to carry out all onsite excavation / reinstatement and traffic management

SSEN to carry out all off site excavation / reinstatement and traffic management

NORMAL DEPTH TO THE TOP OF THE CABLE WHEN LAID				
	services	l.v.	h.v.	e.h.v.
FOOTPATH/UNMADE	0.45m	0.45m	0.60m	0.80m
ROAD CROSSING	0.60m	0.60m	0.75m	0.90m
AGRICULTURAL	1.00m	1.00m	1.00m	1.10m
l.v./services – up to 1000V.				
ARUN DISTRICT COUNCIL BE/109/19/OUT				
h.v. – over 1000V. to 11,000V.				
e.h.v. – 22,000V. to 132,000V.				

WARNING

There may have been subsequent alterations to the surface levels. Trial holes must be taken to determine positions and depth of cables. HS (G) 47 Booklet from the Health and Safety Executive – Avoiding Danger from Buried Cables – should be consulted before commencing excavation work. (available from the HSE)

WHEN WORKING IN THE VICINITY OF OVERHEAD LINES THE HEALTH AND SAFETY GUIDANCE NOTE GS6 SHOULD BE CONSULTED. (AVAILABLE FROM THE HSE)

BASED UPON THE ORDNANCE SURVEY MAP WITH THE SANCTION OF THE CONTROLLER OF H.M. STATIONERY OFFICE. CROWN COPYRIGHT RESERVED.

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Southern Electric Power Distribution plc
Registered in England No. 04094390
Registered Office: No. 1 Forbury Place,
43 Forbury Road, Reading, RG1 3JH

PORTSMOUTH
023-9262-4200

UNCONTROLLED COPY
Subject to Revision Master held at

**Scottish & Southern
Electricity Networks**

If you are unsure & need to seek advice before commencing excavations please contact

L.V. MAINS RECORD	
Grid Ref:	SU93890214
Scale:	1:1000
Date:	05/08/2019