









# Utilities Report

## Utility Type

	Electricity
	Gas
	Water and Sewerage
	Telecoms
	Other

## Report Information

	Works Description:
	
	

This report is issued for the site described as:

Report Reference:

National Grid Reference:

Customer Reference:

Report Date:

### CONTACT DETAILS

-----  
If you require any assistance please contact our customer services team on:

**0844 844 9966**

-----  
or by email at:

[helpdesk@landmark.co.uk](mailto:helpdesk@landmark.co.uk)

# Utilities Report



## Understanding This Report

We have asked a comprehensive list of Utility companies whether they have any apparatus or underground services in the vicinity of the site.

### Location Map

This shows the plan that was dispatched to the Utility companies. The companies have been asked to return information on the area outlined, which will encompass your chosen site.

### Request Status Report

This will confirm the current status of the information requests. We list which responses we have received and whether the company is affected. The Status Report will be divided into the following sections.

Affected Utilities - We have received plans/information

No response received - We are still awaiting a full response

Not affected utilities - We have received a not affected/no plant present response

### Responses

Affected responses are listed by company.

Any responses from companies confirming they are not affected are provided at the back of the report for your records.



## 'Awaiting Further Responses' or 'Pack Complete'?

We do not include Local Authority requests when indicating if the pack is 'Complete' or 'Awaiting Further Responses' as Local Authorities are not obliged to reply to these enquiries.

The local authority for the area is contacted to see if they have any council owned property that may be affected by works. In general, these plant enquiries go to the highways department for responses regarding street lighting and drainage. However, the responses we receive can vary each time depending on resources available at the council and we often don't receive replies from local authorities at all.

### Response Times

We endeavour to obtain as much of the information as possible within the timescale of this report. Unfortunately, there are occasions when the response times of the utility companies mean we do not receive all information within the chosen timescale.

In these scenarios we will send all the information that is available as a first report. When we receive any remaining responses, the report will be re-issued in full incorporating the new information. This will continue until the report is complete. The front page of the report will confirm the batch (e.g. A, B or C) and whether responses are outstanding.

### Terms and Conditions

Full Terms and Conditions can be found on the following link: <http://www.landmarkinfo.co.uk/Terms/Show/515>

Please note that Utility reports have a validity of 3 months from the date of purchase.

If you experience difficulties accessing our Terms and Conditions, please copy and paste the link directly into your browser, you will then be able to access our Terms and Conditions from there. Should you still experience difficulties, please telephone our Customer Service Team on 0844 844 9966.

### Next Steps:

For any queries regarding the report content, or help with the report, contact your Landmark Customer Services team.

# Utilities Report



## Landmark Utilities Report Service PAS 128 Statement

Prepared for: **Landmark Information Group Ltd**

Practitioner: Atkins

Order Number:

Site Name:

Date of Order:

Date of Issue:

Thank you for using our Utility Report Service.

This report has been completed in accordance with the standards defined under Survey Category D of PAS128, a Publicly Available Specification for underground utility detection, verification and location published by the British Standards Institution.

Positional accuracy of plant is not guaranteed from information presented in a desktop search alone and the location of underground utilities should be verified through other means prior to breaking ground.

Information relating to the presence of Radio Frequency Identification Devices (RFIDs) has been requested from relevant utility companies or taken from mapping systems where available.

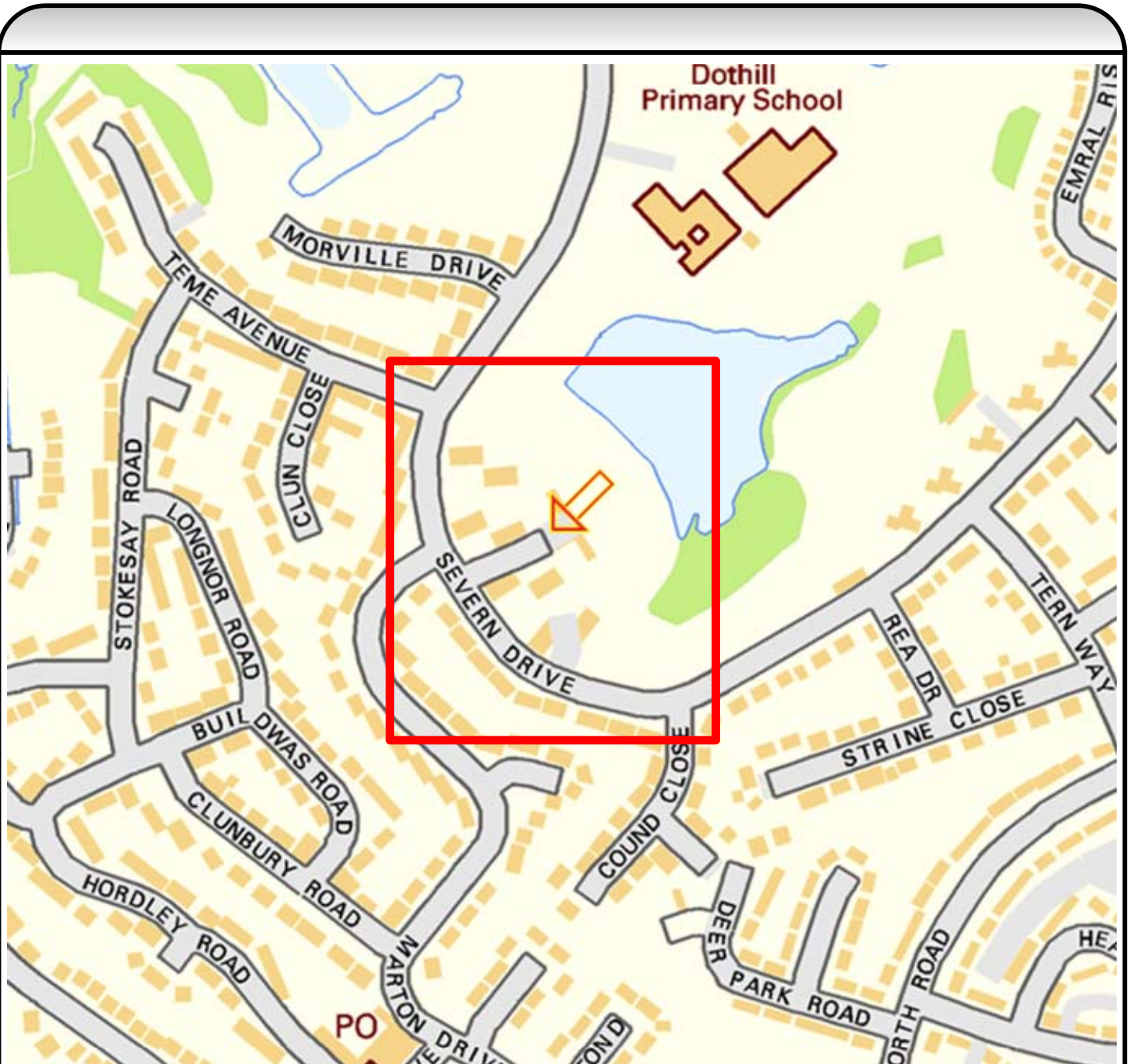
Utility companies who have not responded to enquiries are referenced on the enclosed Status Report accordingly. Their response will be chased and forwarded on for a period of up to four working weeks. Whilst we cannot guarantee that a utility company will respond to our enquiries, we endeavour to obtain responses from those that have not responded.


Any responses contained within this report have been obtained between the start date of the order and the date of issue.

If you want to discuss your report further with us please contact Landmark Customer Services.

Checked  
by

KM



**Please ensure that search data covers the COMPLETE AREA within the boundary lines on this map. (marked by: )**

Landmark will not be held responsible for any incident or accident arising from the use of the information associated with this particular Statutory Search. The details provided are given in good faith, but no liability whatsoever can be accepted in respect thereof.

**REFERENCE: 29843**

**ROUTE: Site at Dot Hill, Severn Drive, Wellington, Telford**

**POST CODE: TF1 3GJ**

**OSGR: 364437,312588**

Site at Dot Hill, Severn Drive, Wellington, Telford

OSGR: 364437,312588

Date Requested: 24-Feb-2014

TF1 3GJ

Client Reference:

XXXXXXXXXXXX\_1

**Affected Utilities** We have received plans/information from the following companies. Please see the enclosed response.

Utility	Category	Date Issued	Late Response Issue Date	Notes
GTC	Electric, Water, Fibre, Gas, Pipeline	10 Mar 14		
LinesearchbeforeUdig	Pipeline	10 Mar 14		Western Power Distribution affected. See separate response.
National Grid Gas	Gas	10 Mar 14		
Openreach - [British Telecommunications]	Telecom	10 Mar 14		
Severn Trent Water	Water and / or Sewer	10 Mar 14		
Virgin Media	Telecom	10 Mar 14		
Western Power Distribution	Electric	10 Mar 14		

**No response received** We are still awaiting a full response from the following companies.

Utility	Category	Date Issued	Late Response Issue Date	Notes
Telford & Wrekin Council	Council			

**Not affected utilities**

We have received a not affected/no plant present response from the following companies.

Utility	Category	Date Issued	Late Response Issue Date	Notes
BSKYB Telecommunications Services	Telecom	10 Mar 14		
C.A. Telecom UK - [Colt Technology Services]	Telecom	10 Mar 14		
CityFibre	Telecom	10 Mar 14		
Energetics	Electric, Gas & Water	10 Mar 14		
Environment Agency	Other	10 Mar 14		
Fulcrum Pipelines	Pipeline	10 Mar 14		
Instalcom - [Level 3, Global Crossing (UK) & PEC and Fibernet UK]	Telecom	10 Mar 14		
Interoute Vtesse	Telecom	10 Mar 14		
KCOM Group	Telecom	10 Mar 14		
McNicholas - [KPN International]	Telecom	10 Mar 14		
McNicholas - [TATA Communications]	Telecom	10 Mar 14		
Network Rail	Rail	10 Mar 14		
Plancast - [Interoute]	Telecom	10 Mar 14		
SSE	Electric, Gas & Telecom	10 Mar 14		Website used.
Telent - [TeliaSonera]	Telecom	10 Mar 14		
Trafficmaster	Other	10 Mar 14		Website used.
Turner & Townsend - [MBNL]	Other	10 Mar 14		
Verizon	Telecom	10 Mar 14		
Vodafone	Telecom	10 Mar 14		

Checked and Validated By Kayleigh Maile

Date 10 March 2014

Kmaile.

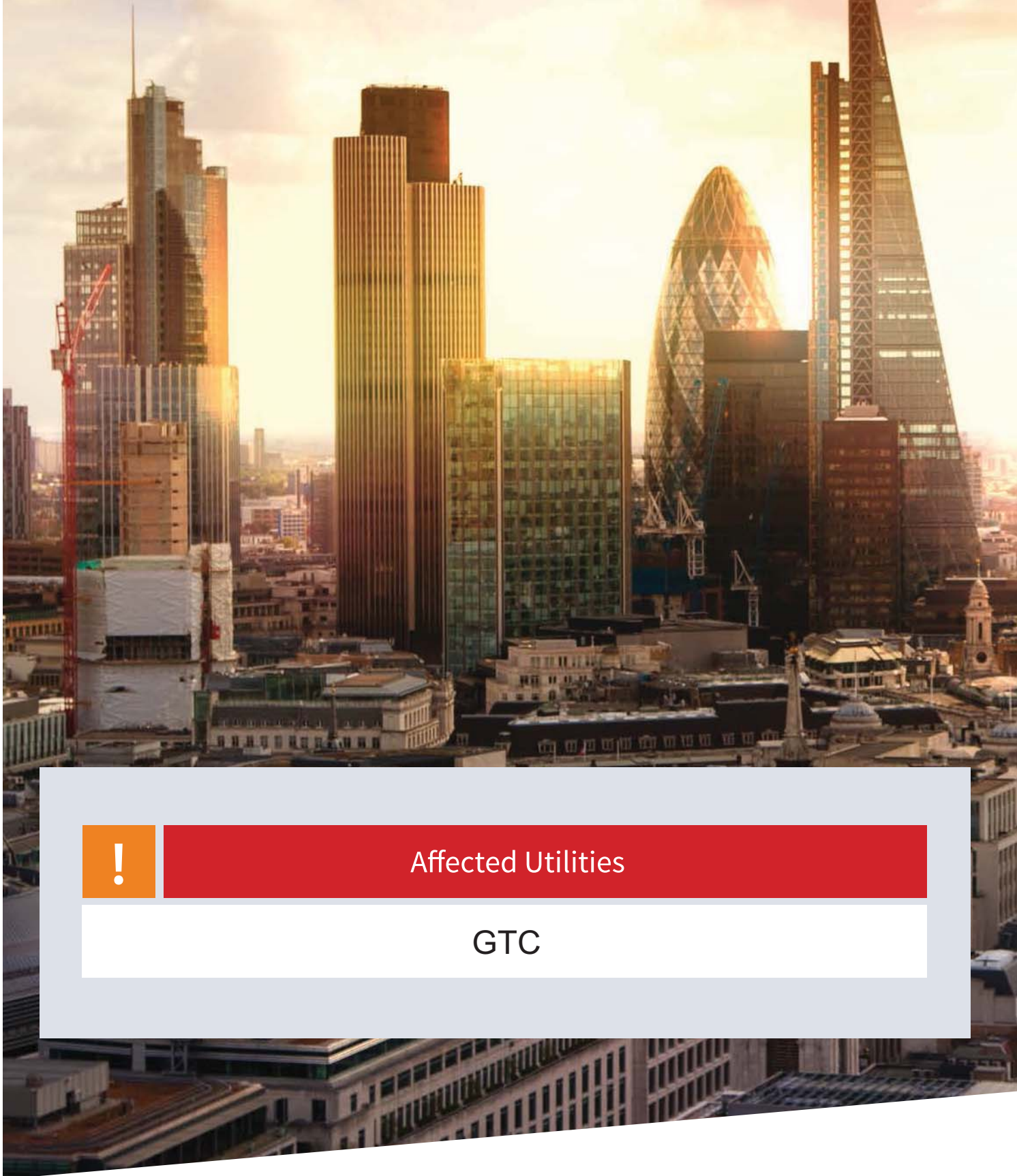
**Definition of Terms**

**Affected** Utility supplier is expected to be affected by any work carried out in the area searched as their records indicate their plant is in or close to the area searched. It is recommended to anybody carrying out works in the area that they should consult with the utility company as soon as possible and in any event prior to carrying out any works.

**No response received** At the date of sending the report no response has been received from the utility supplier.

**Not affected** Utility supplier is not expected to be affected by any work carried out in the area searched as their records indicate their plant is not in or close to the area searched.

# Utilities Report



Affected Utilities

GTC

Our Ref: N0012263-1  
Your Ref: BU00038146/29843  
Date: 08 March 2014



Energy House  
Woolpit Business Park  
Woolpit, Bury St Edmunds  
Suffolk IP30 9UP  
T 01359 240363  
F 01359 243377  
E [info@gtc-uk.co.uk](mailto:info@gtc-uk.co.uk)  
[www.gtc-uk.co.uk](http://www.gtc-uk.co.uk)

Dear Sir/Madam

**Re:** Site at Dot Hill Severn Drive Wellington Telford

In reply to your communication dated 24/02/2014, stating your intention to execute works at the above site, please find enclosed the drawings locating our assets in the area requested. We have also enclosed a proposed plan of the infrastructure as the area in question is not yet complete.

This information is for guidance only and the precise position of the plant must be established, prior to your works, using hand-digging methods only. The contractor will be held responsible for any damage caused to our asset.

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

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

Should you require further assistance with locating our plant please contact GTC UC on 0845 602 2498.

All works in the vicinity of our networks should be undertaken in accordance with the attached document, IN0003. Reference should also be made to HSG47 Avoiding Danger from Underground Services.

**A GAS ESCAPE OR DAMAGE, MUST BE REPORTED ON 0800 111 999. NATIONAL GRID / DNGT WILL ATTEND TO MAKE SAFE AND REPAIR.**

**DAMAGE TO OUR ELECTRICITY NETWORK SHOULD BE REPORTED TO ENC ON 0800 032 6990.**

Yours sincerely

Maggie Ketteridge  
Engineering Support Officer  
**GTC**

Enclosure: IN0003 Safe Working in the Vicinity of Gas and Electricity



Rev	Revision Note	Date	Drawn by	Approved
1-0	Original drawing no MS40653-D100 Rev A. Original design 34023631-2 G Design. Contestable added.	02/02/01	PL/MS	SE
1-1	Variation to cable & site boundary o/s plots 1-28	15/04/11	JAS	SA
1-2	Variation to mains and services; o/s plots 8-27, 27-23 and 41-19.	22/06/11	CB	JD
1-3	LRC data added (LV 1744)	04/08/11	JW	SD
1-4	As Laid added, 593190	30/08/11	JM	N/A
1-5	LRC data added, LV2034	03/10/11	JM	MF
1-6	HLS-01-HLS-08 & FP1-FP3 added	22/11/11	NN	JC
1-7	As Laid Data Added, Invoice 603561	28/02/12	DW	N/A
1-8	As Laid Data Added, Invoice 605573	26/04/12	VM	N/A

APPROVED FOR  
CONSTRUCTION

**BLOCK B FLATS 14-27**  
8x DOM, 1x L/L

10 WAY 13-TYPE MSDB LOCATED IN COMMUNAL CLIPBOARD ON GROUND FLOOR  
USE "SOLID LINKS" INSTEAD OF J-TYPE FUSES

PLOT	PHASE	SNE CUT-OUTS & METER BOARDS IN COMMUNAL CLIPBOARD ON
L/L	BK	GROUND FLOOR
52	BR	GROUND FLOOR
53	BR	GROUND FLOOR
54	BK	GROUND FLOOR
55	GY	GROUND FLOOR
56	GY	GROUND FLOOR
57	BK	GROUND FLOOR
58	BR	GROUND FLOOR
59	BR	GROUND FLOOR

**BLOCK B FLATS 44-51**  
8x DOM, 1x L/L

10 WAY 13-TYPE MSDB LOCATED IN COMMUNAL CLIPBOARD ON GROUND FLOOR  
USE "SOLID LINKS" INSTEAD OF J-TYPE FUSES

PLOT	PHASE	SNE CUT-OUTS & METER BOARDS IN COMMUNAL CLIPBOARD ON
L/L	BK	GROUND FLOOR
44	GY	GROUND FLOOR
45	GY	GROUND FLOOR
46	BK	GROUND FLOOR
47	BR	GROUND FLOOR
48	BR	GROUND FLOOR
49	BK	GROUND FLOOR
50	GY	GROUND FLOOR
51	GY	GROUND FLOOR

LV Point of Connection  
230/400 (+10%, -9%)  
Approx position  
Grid ref: 364363, 312547  
Volt drop= 1.9%  
ELI= 36 mΩ

Point of Isolation DNO/GTC  
2 way unfused LINK BOX to DNO spec  
with 200A Fuses  
Volt drop=2.15%  
ELI=51mΩ

Private Pillar  
1x100A Cut-out  
Developer to provide  
+ install knock

EN0012263-1  
BG Projects  
Blank Nr. MS40653-D100

**Proposed LV Mains**  
All LV cables to be laid in pre-excavated trench to 600mm cover, provided by the developer (Contract A - 10). Road crossings to be placed 150mm right, or 100mm cover to the finished level.

**Proposed LV Cables**  
All LV cables to be laid in pre-excavated trench to 600mm cover, provided by the developer (Contract A - 10). Road crossings to be placed 150mm right, or 100mm cover to the finished level.

**Unarmoured Flexible Cables - Phase Identification**  
For new colour convention marking, the conductor system will be shown as BK, BR, GY where BK = Brown (RCD), BR = Black (TN/MS) / GY = Grey (RCD).

All services are to be ducted. Duct laid by the developer at 600mm cover to the finished level. Road crossings to be ducted with 150mm right.

**LEGEND**

- 230V cable - Proposed
- 230V cable - Existing / Laid
- 11kV cable - Proposed
- 11kV cable - Existing / Laid
- LV cable - Proposed
- LV cable - Existing / Laid
- Service cable
- Water position
- Cable Junc
- 2 Way Link Box
- 4 Way Link Box
- Cable manhole (shown above)
- Cable with duct
- LV feeder pillar
- Pit and earth electrode
- Street Lighting Column
- Earth

**Cable Size**

Cable Size	Duct Size
35kV main cable	300mm
11kV main cable	150mm
LV cable	50mm

ANY ORIGIN FROM THESE SIZES IS AT THE DEVELOPER'S OWN RISK

This plan shows those cables owned by Electricity Networks Company Ltd.  
Electric cables owned by other DNOs or otherwise privately owned, may be present in this area. Information with regard to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. No liability of any kind whatsoever is accepted by the company, its agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HSE/G47, must be used to verify and establish the actual position of cables, services and other equipment on site before any mechanical plant is used. It is your responsibility to ensure that the information is provided to all persons (other than those in possession) working on site or near electrical installations. When the main has been laid it becomes the responsibility of the developer to ensure its protection, therefore safe digging should be carried out as soon as possible. Any damage or theft of any item once delivered to site is the responsibility of the developer. Replacement and repair, including maintenance costs will be fully recharged to the developer. Irrespective of who the responsible party was.  
It will be the developer's responsibility to recover the costs from the third parties.

This electrical network design has been carried out by:  
Engineering Manager  
The Gas Transportation Company Ltd Tel: 01359 240363  
Woolpit Business Park Fax: 01359 244398  
Bury St Edmunds Suffolk www.gtc-uk.co.uk  
IP30 9LP

All cables and equipment used on this design are to be in accordance with G81 standards.

Drawing Scale : 1:500  
O.S.REF : 364396, 312571  
Network Number : N0012263-1  
Project Number :  
Drawing Number : EN0012263-1\_R1-8\_1\_of\_3

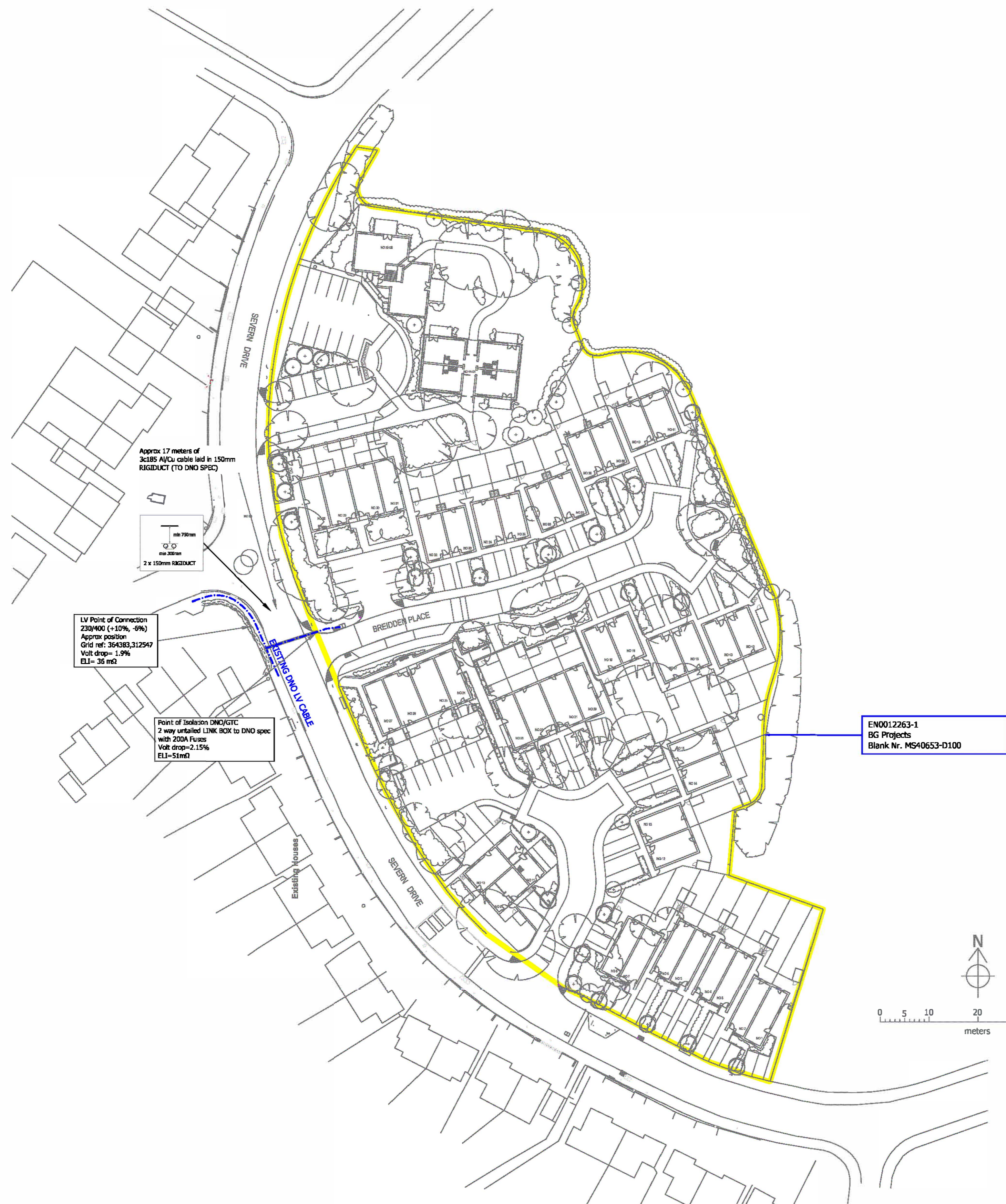
Developer : BG Projects  
Location : Severn Drive  
Dothill  
Wellingford  
Telford  
TF1 3JL

**enc** the electricity network co.  
SHEET SIZE A1

THIS DRAWING SHOWS:  
GTC NETWORK  
CONTESTABLE

Rev	Revision Note	Date	Drawn by	Approved
1-0	Original drawing no MS40653-D100 Rev A. Original design 34023631-2 G Design. Contestable added.	02/02/01	PL/MS	SE
1-1	Variation to cable & site boundary o/s plots 1-28	15/04/11	JAS	SA
1-2	Variation to mains and services; o/s plots 8-27, 27-23 and 41-19.	22/06/11	CB	JD
1-3	LRC data added (LV 1744)	04/08/11	JW	SD
1-4	As Laid added, 593190	30/08/11	JM	N/A
1-5	LRC data added, LV2034	03/10/11	JM	MF
1-6	HLS-01-HLS-08 & FP1-FP3 added	22/11/11	NN	JC
1-7	As Laid Data Added, Invoice 603561	28/02/12	DW	N/A
1-8	As Laid Data Added, Invoice 605573	26/04/12	VM	N/A

APPROVED FOR  
CONSTRUCTION



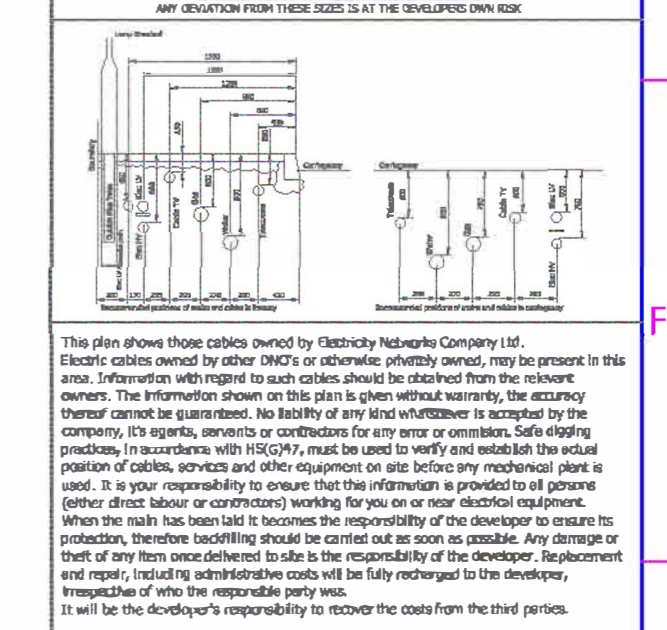
**Proposed HV Mains**  
All HV cables to be laid in pre-constructed trench to 600mm cover, provided by the developer. All HV cables to be laid in pre-constructed trench to 400mm cover, provided by the developer. All LV cables to be laid in pre-constructed trench to 400mm cover, provided by the developer. All LV cables to be laid in pre-constructed trench to 400mm cover, provided by the developer.

**Proposed LV Cables**  
All LV cables to be laid in pre-constructed trench to 400mm cover, provided by the developer. All LV cables to be laid in pre-constructed trench to 400mm cover, provided by the developer.

**Proposed Mains Cables - Phase Identification**  
For new colour identification marks, the covered phases will be green as R, or, or, or where R = Brown (DNO), B = Black (DNO), or = Grey (DNO).

All services are to be ducted. Duct laid by the developer at 450mm cover to the finished level. Road crossings to be ducted with 150mm rigid duct.

Legend	Symbol
230V cable - Proposed	Red line
230V cable - Existing / Laid	Red dashed line
110V cable - Proposed	Blue line
110V cable - Existing / Laid	Blue dashed line
LV cable - Proposed	Green line
LV cable - Existing / Laid	Green dashed line
Service cable	Yellow line
Meter position	Red square
Cable Joints	Red circle
2 Way Link Box	Red circle with cross
4 Way Link Box	Red circle with cross
Cable with duct	Blue line with dots
LV Feeder/Tier	Blue line with dots
Pit and 6 earth electrode	Blue circle
Street Lighting Column	Blue circle
Surf	Blue circle



This electrical network design has been carried out by:

Engineering Manager  
The Gas Transportation Company Ltd  
Woodport Business Park  
Dunry St Edmunds  
Suffolk  
IP30 9LP

Tel : 01359 240363  
Fax : 01359 244398  
[www.gtc.co.uk](http://www.gtc.co.uk)

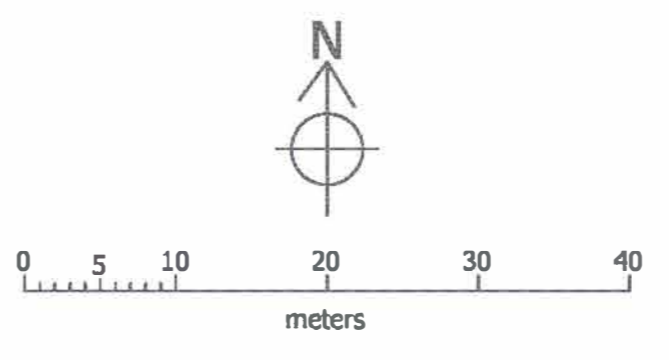
All cables and equipment used on this design are to be in accordance with G81 standards.

Drawing Scale : 1:500  
O.S. REF : 364396, 312571  
Network Number : N0012263-1  
Project Number :  
Drawing Number : EN0012263-1\_R1-8\_2\_of\_3 Contestable

Developer : BG Projects  
Location : Severn Drive  
Dothill  
Wellingford  
Telford  
TF1 3JL

**enc**  
the electricity network co.

SHEET SIZE A1



THIS DRAWING SHOWS:  
CONTESTABLE

Rev	Revision Note	Date	Drawn by	Approved
1-0	Original drawing no MS40653-D100 Rev A. Original design 34023631-2 G Design. Contestable added.	02/02/01	PL/MS	SE
1-1	Variation to cable & site boundary o/s plots 1-28	15/04/11	JAS	SA
1-2	Variation to mains and services; o/s plots 8-27, 27-23 and 41-19.	22/06/11	CB	JD
1-3	LRC data added (LV 1744)	04/08/11	JW	SD
1-4	As Laid added, 593190	30/08/11	JM	N/A
1-5	LRC data added, LV2034	03/10/11	JM	MF
1-6	HLS-01-HLS-08 & FP1-FP3 added	22/11/11	NN	JC
1-7	As Laid Data Added, Invoice 603561	28/02/12	DW	N/A
1-8	As Laid Data Added, Invoice 605573	26/04/12	VM	N/A

APPROVED FOR  
CONSTRUCTION

EN0012263-1  
BG Projects  
Blank Nr. MS40653-D100

**Proposed HV Mains**  
All HV cables to be laid in pre-excavated trench to 600mm cover, provided by the developer (General A - 10). Road coverings to be placed 100mm higher, at 600mm cover to the finished level.

**Proposed LV Cables**  
All LV cables to be laid in pre-excavated trench to 450mm cover, provided by the developer (General A - 10). Road coverings to be placed 100mm higher to accommodate the main shown on this drawing, at 450mm cover to the finished level.

**Standardised Cable Schedules - Please identify**  
For new colour convention marking, the correct colour will be shown as R, B, G, or where not shown (DND) - i.e. black (DND) / GY - Green (DND).

All services are to be ducted. Duct laid by the developer at 450mm cover to the finished level. Road crossings to be ducted with 150mm rights.

**LEGEND**

33kV cable - Proposed	-----
11kV cable - Existing / Laid	-----
11kV cable - Proposed	-----
11kV cable Existing / Laid	-----
LV cable - Proposed	-----
LV cable - Existing / Laid	-----
Service cable	-----
Meter position	⊕
Cable Junc	⊕
2 Way Link Box	⊕
4 Way Link Box	⊕
Switch cabinet (doors shown)	⊕
Cable with duct	⊕
LV Feeder Pole	⊕
Pit and earth electrode	⊕
Street Lighting Column	⊕
Earth	⊕

**Cable Size**      **Duct Size**

33kV service cable	150mm
11kV service cable	150mm
LV service cable	150mm

ANY ORIGIN FROM THESE SIZES IS AT THE DEVELOPER'S OWN RISK

This plan shows those cables owned by Electricity Networks Company Ltd. Electric cables owned by other DNOs or otherwise privately owned, may be present in this area. Information with regard to such cables should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. No liability of any kind whatsoever is accepted by the company, its agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HSG247, must be used to verify and establish the actual position of cables, services and other equipment on site before any mechanical plant is used. It is your responsibility to ensure that the information is provided to all persons (other than direct labour or contractors) working on site or near electrical installations. When the main has been laid it becomes the responsibility of the developer to ensure its protection, therefore scaffolding should be carried out as soon as possible. Any damage or theft of any item once delivered to site is the responsibility of the developer. Replacement and repair, including maintenance costs will be fully recharged to the developer, irrespective of who the responsible party was. It will be the developer's responsibility to recover the costs from the third parties.

This electrical network design has been carried out by:

Engineering Manager  
The Gas Transportation Company Ltd      Tel : 01359 240363  
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Suffolk  
IP30 9LP

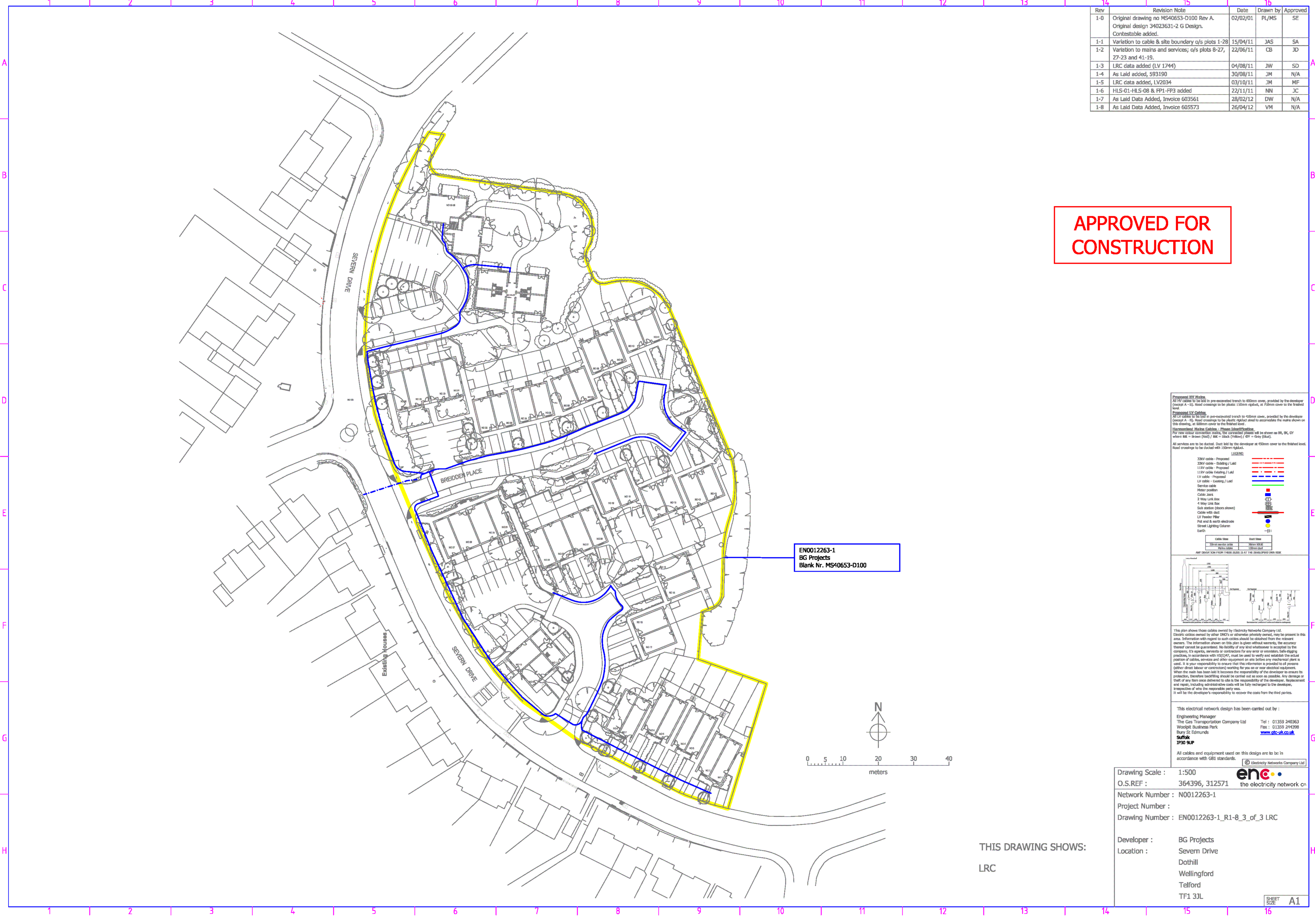
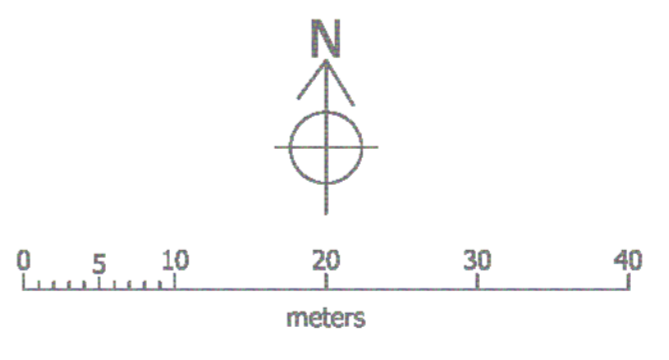
All cables and equipment used on this design are to be in accordance with G81 standards. Electricity Networks Company Ltd

Drawing Scale : 1:500  
O.S.REF : 364396, 312571  
Network Number : N0012263-1  
Project Number :  
Drawing Number : EN0012263-1\_R1-8\_3\_of\_3\_LRC

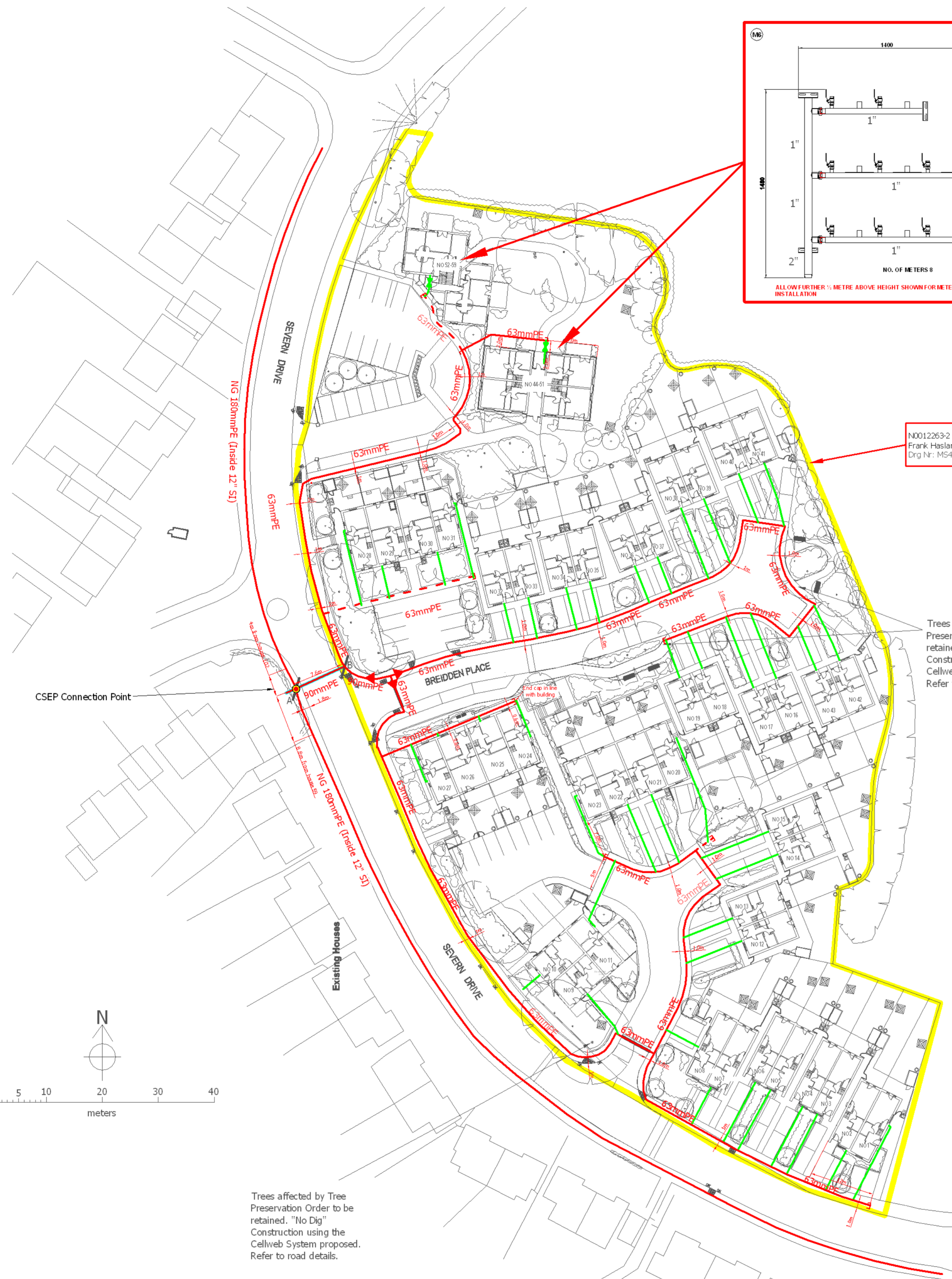
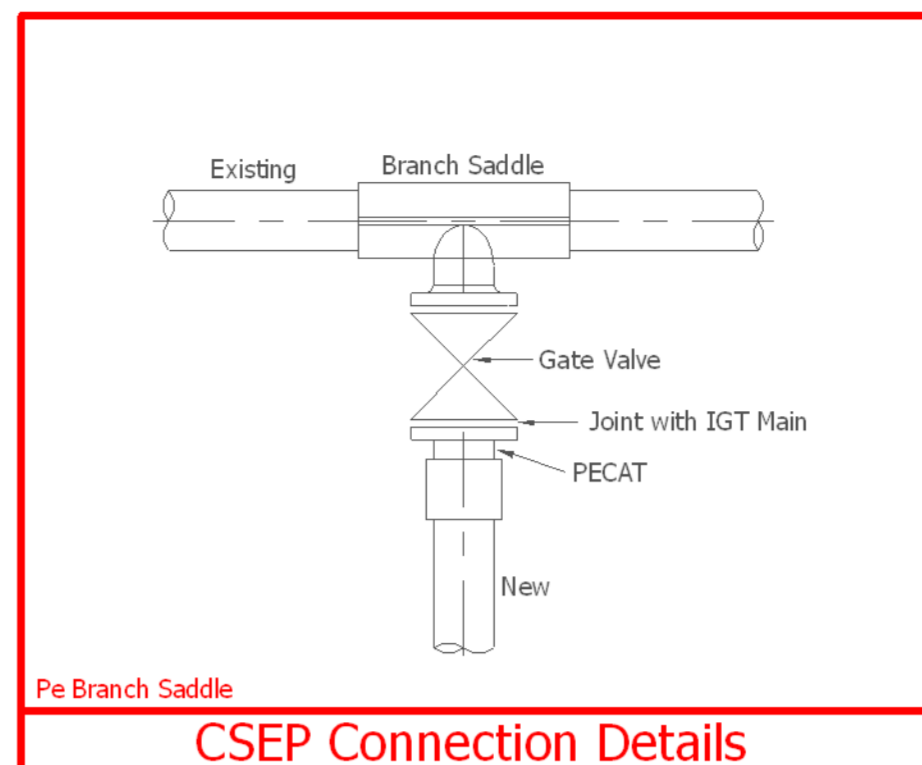
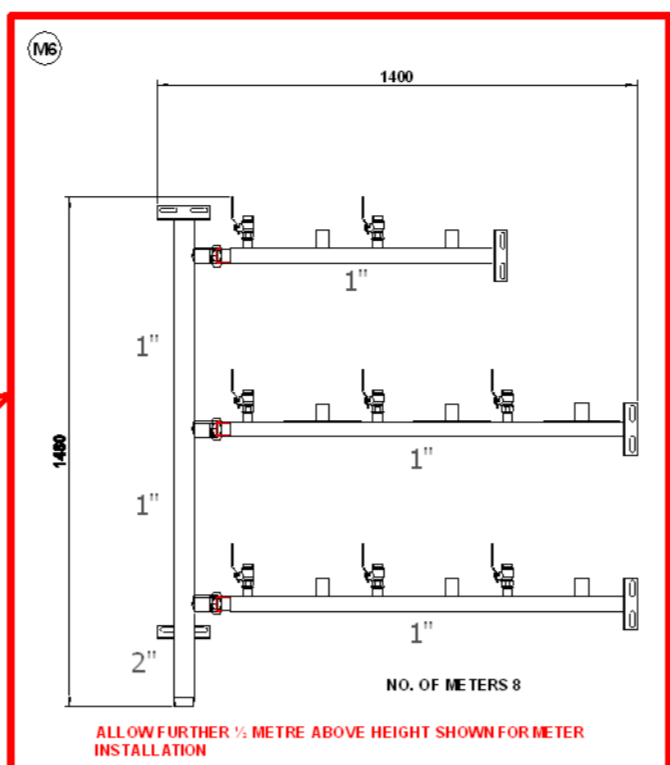
Developer : BG Projects  
Location : Severn Drive  
Dothill  
Wellingford  
Telford  
TF1 3JL

SHEET  
SIZE  
**A1**

THIS DRAWING SHOWS:  
LRC



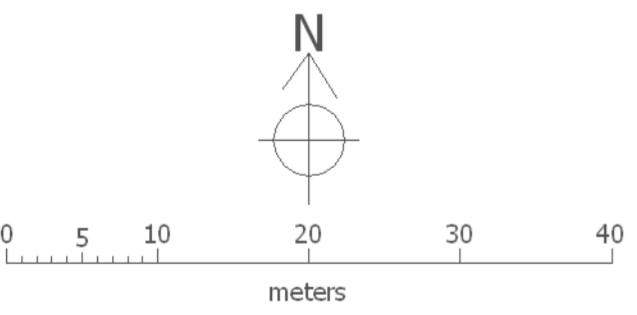
Rev	Revision Note	Date	Drawn by	Approved
1-0	Original drawing no M540653-D100 Rev A. Original design 34023631-2 G Design.	02/02/11	AS	AW
1-1	Variation to main and boundary o/s plots 1-28	08/04/11	JAS	AW
1-2	As Laid CSEP Invoice 612631	28/06/11	SG	N/A
1-3	As Laid data added from Work Request 38735	01/08/11	LB	N/A
1-4	90% Audit Completed	07/03/12	MC	N/A



N0012263-2  
Frank Haslam Milan & Co.  
Orig. No: M540653-D100 Rev A

Trees affected by Tree Preservation Order to be retained. "No Dig" Construction using the Cellweb System proposed. Refer to road details.

Trees affected by Tree Preservation Order to be retained. "No Dig" Construction using the Cellweb System proposed. Refer to road details.



**Services**  
All services to be ducted. Duct laid by the developer at 450mm cover to the finished level. Road coverings to be separately ducted with their position clearly marked. All ducts to be 10mm diameter continuous plastic service, unless otherwise stated.

**Proposed Mains**  
All mains to be laid in pre-cast trench to 600mm cover, provided by the developer. Road coverings to be continuous plastic duct or drainage pipe sized to accommodate the mains shown on this drawing or trench cover to the finished level.

**Existing Mains**  
The information shown on this plan is given without obligation or warranty. The accuracy thereof cannot be guaranteed. The liability of any kind is accepted by the company in agents or behalf of the engineer or designer. GTC can accept no responsibility for the accuracy of the location of existing services shown on this drawing. It is the developer's responsibility to ensure that the location of existing services is correct before construction.

**Key**

- Proposed GFC Main
- Proposed GFC Main (ducts)
- Existing Main
- Medium pressure
- Proposed GFC Main
- Existing Main
- Internal GFC Pressure
- Proposed GFC Main
- Existing Main
- Off Site Service
- Off Site Main

**Connections**

- Connection to other GFC
- Connection to other GFC
- Pressure Reducing Station
- Valve
- Valve
- Reducer

**Notes**

- 1. All services to be ducted.
- 2. All mains to be laid in pre-cast trench to 600mm cover, provided by the developer.
- 3. Road coverings to be continuous plastic duct or drainage pipe sized to accommodate the mains shown on this drawing or trench cover to the finished level.
- 4. The information shown on this plan is given without obligation or warranty. The accuracy thereof cannot be guaranteed. The liability of any kind is accepted by the company in agents or behalf of the engineer or designer. GTC can accept no responsibility for the accuracy of the location of existing services shown on this drawing. It is the developer's responsibility to ensure that the location of existing services is correct before construction.

Minimum Proximity to P-grades - Pe Mains

O.D. (mm)	Material	Pe Grade	MCP		
			< 75 mbar	> 75 mbar	> 3bar
≤ 140	Pe 80 SDR 26	17.6	0.25	3	3
			0.25	3	5
150 to 250	Pe 80 SDR 26	17.6	1	3	3
			1	3	5
315	Pe 80 SDR 26	17.6	1	3	3
			1	3	5

This plan shows those pipes owned by GTC Pipelines Ltd. Gas pipes owned by other GTC or otherwise privately owned, may be crossed in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty. The accuracy thereof cannot be guaranteed. No liability of any kind whatsoever is accepted by the company, its agents, servants or contractors for any or possible. Safe digging practices, in accordance with HSE G47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus attributable to an existing plant or system. It is your responsibility to ensure that the information is provided to all persons (either direct labour or contractors) working for you or your agent.

When the man has been laid it becomes the responsibility of the developer to ensure its protection, therefore backfilling should be carried out as soon as possible. Any damage or theft of any item once delivered to site is the responsibility of the developer. Repositioning and repair, including administrative costs will be charged to the developer, irrespective of who the responsible party was. It will be the developer's responsibility to recover the costs from the third parties.

This gas network design has been carried out by:  
Neil Herbert ENG HSE  
Engineering Manager  
The Gas Transportation Company Ltd Tel: 01359 240363  
Woodstock Business Park Fax: 01359 244590  
Bury St Edmunds Suffolk www.gtc-ltd.co.uk  
IP30 9JF  
GTC Reg. No: LUP 20000150017001P  
All pipe and fittings used on this design are to be in accordance with GTS/PL2, GTS/L2 and GTS/F7

Drawing Scale : 1:500  
O.S.REF : SJ6412 (364396, 312571)  
Network Number : N0012263-1  
Project Number :  
Drawing Number : N0012263-1\_R1-4\_1\_of\_1  
Developer : Frank Haslam Milan & Co Ltd  
Location : Severn Drive,  
Dothill, Wellingford,  
Telford, TF1 3JL

**gtc** pipelines limited  
**SHEET SIZE A1**

## IN0003

# SAFE WORKING IN THE VICINITY OF UTILITY NETWORKS

(Refer to the HSE Guidance Document HSG47)

### General

1. It is imperative that all works are carried out in accordance with the guidance provided by the HSE in their document HSG47 "Avoiding Danger from Underground Services", ISBN 0-7176-1744-0. No party should carry out any excavation works or other intrusive works such as piling, blasting or demolition without following the guidance in HSG47.
2. We own gas; electricity and water apparatus located in the highway, private property and through the countryside. Some plant may be located in land for which a wayleave or easement has been granted & there may be no surface evidence of the presence of apparatus.
3. Ensure that you have obtained detailed plans of existing and proposed gas, electricity and water networks.
4. The position of the networks should be pinpointed as accurately as possible by reference to the plans and by means of a locating device, which has been tested and calibrated within the last twelve months.

Excavation work should be carried out where applicable, and carefully follow recognised safe digging practices. Once a locating device has been used to determine position and route, excavation may proceed; trial holes should be dug using suitable hand tools to confirm the position of buried networks. During excavation the locating device should be reused to check position and route of buried apparatus.

5. Hand-held power tools can damage buried apparatus and should be used with care until the exact position has been determined. They may only be used to break a paved or concrete surface above the network, unless there are any indications that the network is particularly shallow, in such circumstances, accuracy of plant location is determined and excavation initiated adjacent to the apparatus.
6. No manhole, chamber or other structure should be built over, around or under the network. Such structures, other pipes, ducts and cables should be laid to provide a minimum clearance from the network of 300mm or 1.5 times the diameter of the network, whichever is the greater. No work should be carried out if this minimum clearance cannot be met or which results in a reduction of cover or protection over the network, without first consulting GTC.
7. Where an excavation uncovers a network apparatus the backfill should be adequately compacted, particularly beneath the network, to prevent any settlement, which would subsequently damage the network. Backfill material adjacent to the network should be selected fine material or sand, containing no stones, bricks or lumps of concrete etc. and should be suitably compacted to give comparable support and protection to that provided before excavation. No power compaction should take place until 200mm cover of selected fine fill has been suitably compacted by hand tools.

8. If the road construction is close to the top of the network, GTC should be asked about necessary precautions. The road construction depth should not be reduced without permission from the local Highway Authority.
9. Costs incurred by GTC through direct or consequential damage will be recharged.

### **Precautions for Gas Networks**

10. Plans do not always show the presence of gas pipes cables (from the gas main to premises) but their existence should be assumed.
11. The depth of cover for gas mains is normally 750mm in carriageways and grass verges and 600mm in footways. The depth of cover for gas services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
12. Plastic gas pipes should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.
13. The danger created by damaging a gas pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Gas pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a gas pipe.
14. If a gas leak is suspected, the following action should be taken immediately:
  - Remove all people from the immediate vicinity of the escape. If the service connection to a building or the adjacent main has been damaged, warn the occupants to leave the building, and any adjoining building, until it is safe for them to return. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building. Gas leaking from the damage inside or gas travelling along the line of the service connection pipe from outside the building may cause a build-up of gas within the building.
  - Prohibit smoking, and extinguish all naked flames and other sources of ignition i.e. stop excavator and compressor engines within at least 5.0m of the leak.
  - Inform National Grid by dialling **0800 111 999**
  - Remain on site.
  - Assist National Grid staff, Police or Fire Services as requested.

15. Where gas pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the gas pipe or cause excessive loading over the gas pipe then GTC must be consulted.
16. No concrete or other hard material should be placed or left under or adjacent to any gas pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a gas pipe.
17. Where an excavation uncovers a gas pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.
18. Pipe restraints or thrust blocks close to gas mains should never be removed.
19. Anyone who carries out work near underground gas plant should observe any specific requirements made by the site manager, and ensure that access to the plant by National Grid Gas and GTC staff is available at all times. No unauthorised repairs to gas pipes should be made.
20. Where excavation is within 5 metres proximity to above or below ground pressure control equipment, ground workers must be aware of the possibility of encountering small impulse pipe work that is more susceptible to damage.
21. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
22. GTC should be consulted if it is intended to carry out any of the following activities:
  - using explosives within 30m of gas pipes or 400m of gas pressure reduction equipment
  - piling or boring within 15m of gas plant
  - excavating within 10m of pressure reduction equipment
  - reducing the cover or protection of a gas pipe
  - carrying out nearby deep excavations
  - working near our intermediate pressure (IP) mains.

## Precautions for Electricity Networks

23. Plans do not always show the presence of electric service cables (from the electricity main to premises) but their existence should be assumed.
24. In most cases there will be no permanent surface marker posts or other visible indication of the presence of a buried cable. Even if no cables are shown on plans or detected by a locator, there may still be cables present, which could be live and a close watch should be kept for any signs which could indicate their presence such as marker tape, tape tile, concrete tiles and wooden battens. Any marker which is disturbed by our excavations must be replaced once work is completed.
25. Typically underground cables are laid in trenches between 450mm and 1.0m deep, although some high voltage cables will be deeper, however, depths should never be assumed.
26. A cable is positively located only when it has been safely exposed. Even then, digging should still proceed with care as there may be other cables adjacent or lower down.
27. Occasionally, cables are terminated in the ground by means of a seal, sometimes with external mechanical protection. These "pot ended" or "bottle ended" cables should be treated as live and should not be assumed to be abandoned or disused. They can be difficult to detect with locators even when "live".
28. Using hand held power tools to break up hard surfaces often leads to accidents. Where practicable, such power tools should only be used 500mm or more away from the indicated line of a cable buried in or below a hard surface. Having done so, the cable should then be positively located by careful hand digging under the hard surface. The hard surface should be gradually removed until the cable is exposed. If the cable is not exposed then it must be assumed to be embedded within the surface. Where possible a cable locator should be used as a depth guide down the side of the excavation.
29. Because of the difficulty in confirming depth, hand held power tools should never be used over the cable unless either:
  - the cable has already been exposed by digging under the surface to be broken out and it is at a safe depth (at least 300mm) below the bottom of the hard surface material; or
  - physical precautions have been taken to prevent the tool striking the cable.
30. Excavating close to electricity cables buried in concrete is dangerous and should not be undertaken unless the cable(s) have been isolated. For this reason alone electricity cables should not be buried in concrete.
31. Using mechanical means to break up concrete can cause damage to cables and if the cable is live, anyone present is likely to be injured.



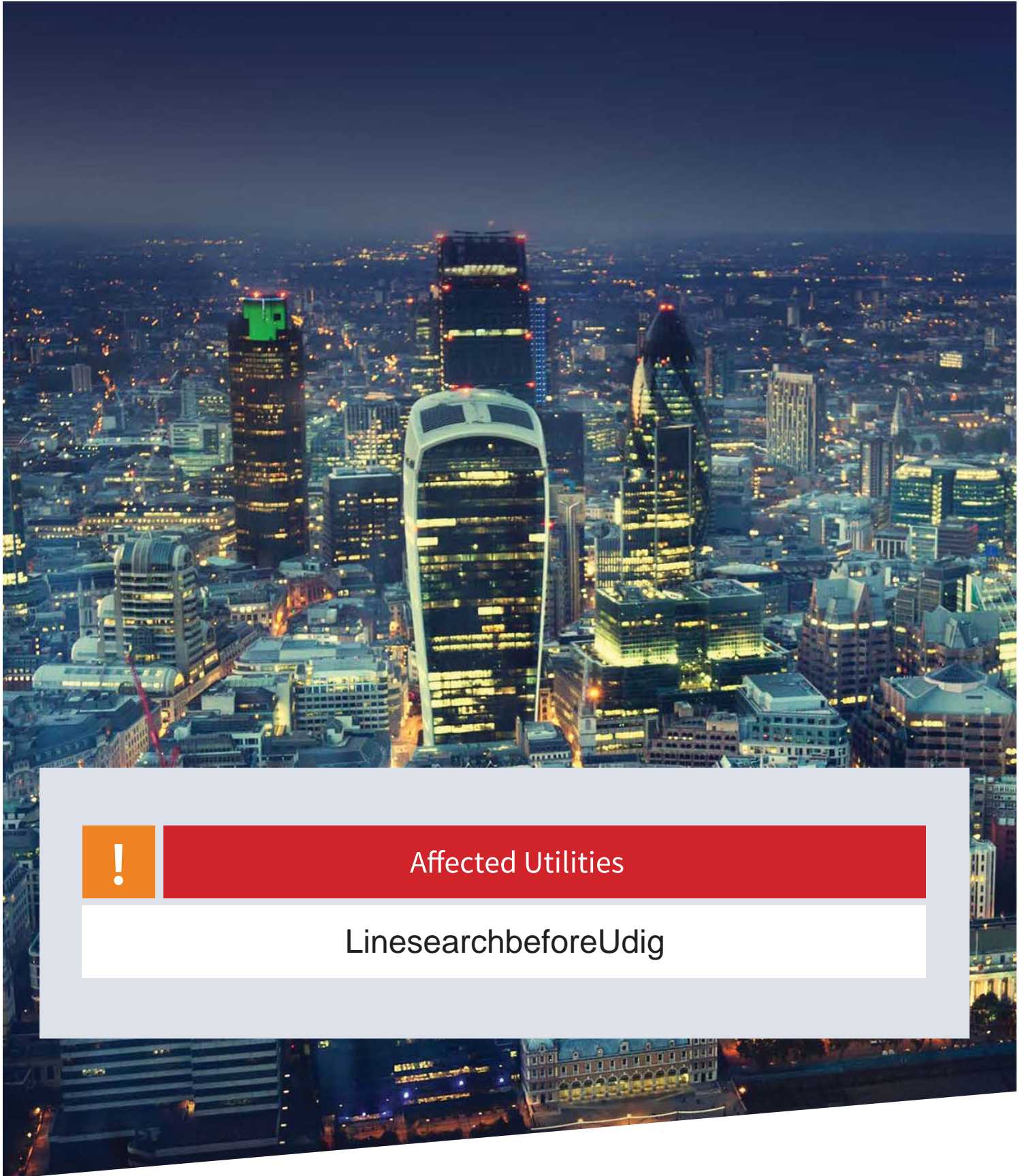
32. Where mechanical excavators are used in the possible vicinity of underground cables, the work should be arranged so that damage to cables is avoided so far as is reasonably practicable and so that everyone is kept well clear of the excavator bucket while it is digging. Drivers should have been instructed to stay in the cab if a cable is struck. If they have to leave the cab, they should jump clear. If drivers climb down, they may be electrocuted. When a cable is struck, a watch should be kept on the machine and no one should go down into the excavation or approach the mechanical excavator or the cable until GTC are contacted and arranged for the damaged cable to be made safe.
33. Where cables have been exposed:
- any damage should be reported to GTC immediately on **0800 032 6990** and work should not be undertaken in the vicinity of a damaged cable until GTC has investigated its condition;
  - for more than 1.0m and they cross a trench, support should be provided. If the exposed cable length is shorter than 1.0m support should still be considered if joints have been exposed or the cable appears otherwise vulnerable to damage. Where advice and help is needed contact GTC;
  - Suitable precautions should be taken to prevent damage from on-going work in the excavation. This may involve for example the use of physical means (e.g. timber boards, sandbags etc) to prevent mechanical damage. Materials or equipment which could damage or penetrate the outer sheath of the cable should not be used. Cables lying in the bottom of an excavation are particularly vulnerable and should be protected by nail free wooden planks, troughing or other suitable means;
  - cables should not be moved aside unless the operation is supervised by GTC;
  - Precautions should be taken to prevent access by members of the public.
34. GTC should be consulted if it is intended to carry out any of the following activities:
- using explosives within 30m of plant or substations piling or boring within 15m of electric plant
  - excavating within 10m of a substation
  - carrying out nearby deep excavations
  - working near our HV plant.

## Precautions for Water Networks

35. Plans do not always show the presence of water service cables (from the water main to premises) but their existence should be assumed.
36. The depth of cover for water mains is normally 750mm in carriageways and grass verges and 750mm footways. The depth of cover for water services is normally 450mm. Remember these covers are to finished level, you may be working in an area, which will be made up or lowered at a later date.
37. Water mains should be located by hand digging before mechanical excavation begins. When the positions and depth of the pipes have been determined, work can proceed.
38. The danger created by damaging a water pipe with an excavator is much greater than if the damage is done with a hand-held power tool (the opposite is true for work near electricity cables and this is reflected in the different safe digging practices). Water pipes may have projections such as valve housings, which are not shown on the plans and to allow for this mechanical excavators should not be used within 500mm of a water pipe.
39. If a water leak is suspected, the following action should be taken immediately:
  - Remove all people from the immediate vicinity of the damage. It is important to note that a mechanical excavator may not only cause damage/leakage at the point of impact. For example, damage to a service connection outside the building may result in further, unseen damage to the connection inside the building.
  - Shut down all working plant and machinery in the vicinity of the damage
  - Inform National Grid by dialling **0800 0130 849**.
  - Remain on site.
  - Do not attempt to make a repair.
  - Assist GTC, approved contractors and Police or Fire Services as requested.
40. Where water pipes cross or are parallel and close to excavations, changes in backfill etc. may cause differential ground settlement and increased stress in the pipe. For pipes parallel and close to excavations, the degree of risk depends upon the depth of the excavation, the distance of the pipe from the excavation, the type of soil and any excessive loading from heavy construction plant and materials. Wherever excavation works may affect the support of the water pipe or cause excessive loading over the water pipe then GTC must be consulted.
41. No concrete or other hard material should be placed or left under or adjacent to any water pipe as this can cause pipe fracture at a later date. Concrete backfill should not be used within 300mm of a water pipe.
42. Where an excavation uncovers a water pipe with a damaged wrapping, GTC should be told, so that repairs can be made to prevent future corrosions and leakage.

43. Pipe restraints or thrust blocks close to water mains should never be removed.
44. Anyone who carries out work near underground water plant should observe any specific requirements made by the site manager, and ensure that access to the plant by GTC staff is available at all times. No unauthorised repairs to water pipes should be made.
45. Where PE pipes and cables have been exposed and it is intended hot work (e.g. welding, grinding, etc) be carried out, contact must be made with GTC to confirm additional precautions and actions that may require to be undertaken.
46. GTC should be consulted if it is intended to carry out any of the following activities:
  - using explosives within 30m of plant
  - piling or boring within 15m of water plant
  - excavating within 10m of water asset structures
  - reducing the cover or protection of a water main or service
  - carrying out nearby deep excavations

# Utilities Report



Affected Utilities

LinesearchbeforeUdig

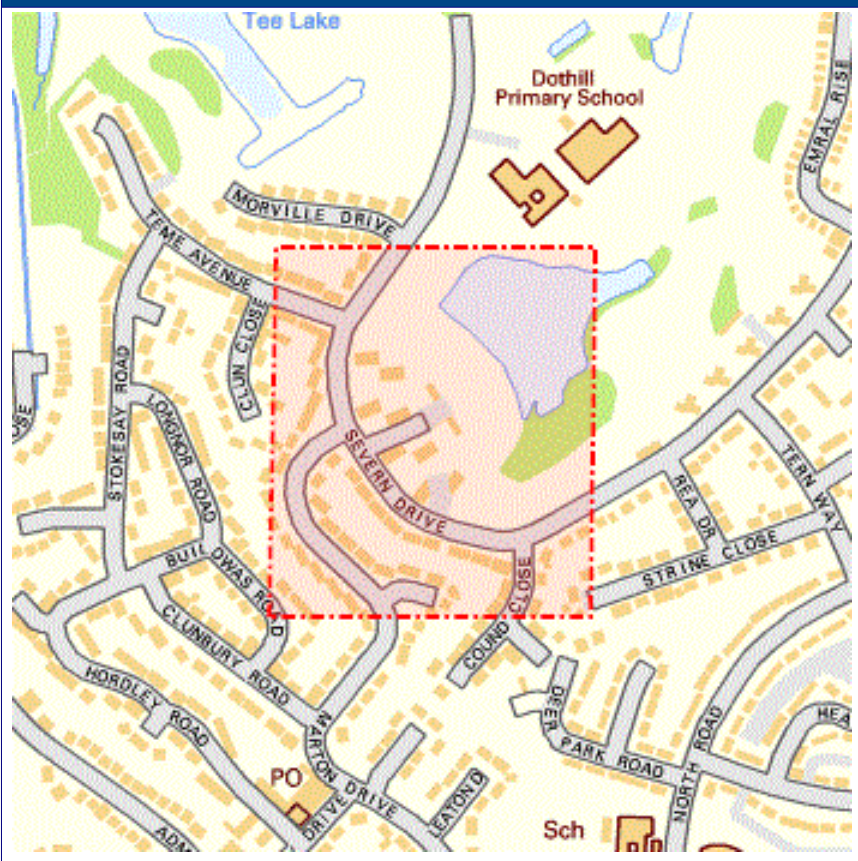
## Enquirer

Name	Miss Chrissy Elliott	Phone	01454662397
Company	Atkins	Mobile	Not Supplied
		Fax	Not Supplied
Address	The Hub 500 Park Avenue, Aztec West, Patchway Almondsbury Bristol BS32 4RZ		
Email	atkinsstatutory.enquiries@atkinglobal.com		
Notes	Asset Owners have been requested to respond to you via these contact details, please ensure they are correct. Where Asset Owners charge for plans they have been requested to send you a quote before proceeding.		

## Enquiry Details

Scheme/Reference	29843		
Enquiry type	Initial Enquiry	Work category	Utility Works
Start date	03/03/2014	Work type	Single excavation site
End date	30/06/2014	Site size	81840 metres square
Searched location	XY= 364437, 312588 Easting/Northing	Work type buffer*	25 metres
Confirmed location	364441 312574		

## Site Map



V3.3.0

Contains Ordnance Survey data © Crown copyright and database right 2012

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

## Asset Owners

Subject always to our standard terms and conditions, this enquiry result is valid for 28 days only from the date of enquiry and is based on the confirmed information you entered. If the location of the work changes then a further enquiry must be made. Should the work not be undertaken within 28 days of the enquiry then a further enquiry must be made.

Where applicable listed below are those registered Asset Owners who have been notified, those to whom you need to send further information and those who have no apparatus within your search area. In addition your response will include other non-registered Asset Owners contact details who have NOT been notified, which may be of interest to you.

Please be aware that the lists below are not exhaustive and that not all Asset Owners are registered with this service. In particular please note that the LinesearchbeforeUdig system only contains information on National Grid's Gas above 2 bar asset and all National Grid Electricity Transmission asset. For National Grid Gas below 2 bar asset information please go to [www.beforeyoudig.nationalgrid.com](http://www.beforeyoudig.nationalgrid.com)

**If you are required to email additional info please note that we need the following:**  
**Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.**

Asset Owners who DO have assets near your proposed work site.

In the Zone of Interest			
Asset Owner	Phone/Email	Emergency Only	Status
Western Power Distribution	0121 623 9780	0121 623 9780	Notified

LinesearchbeforeUdig Asset Owners who DO NOT have assets in the immediate vicinity of your proposed work site.

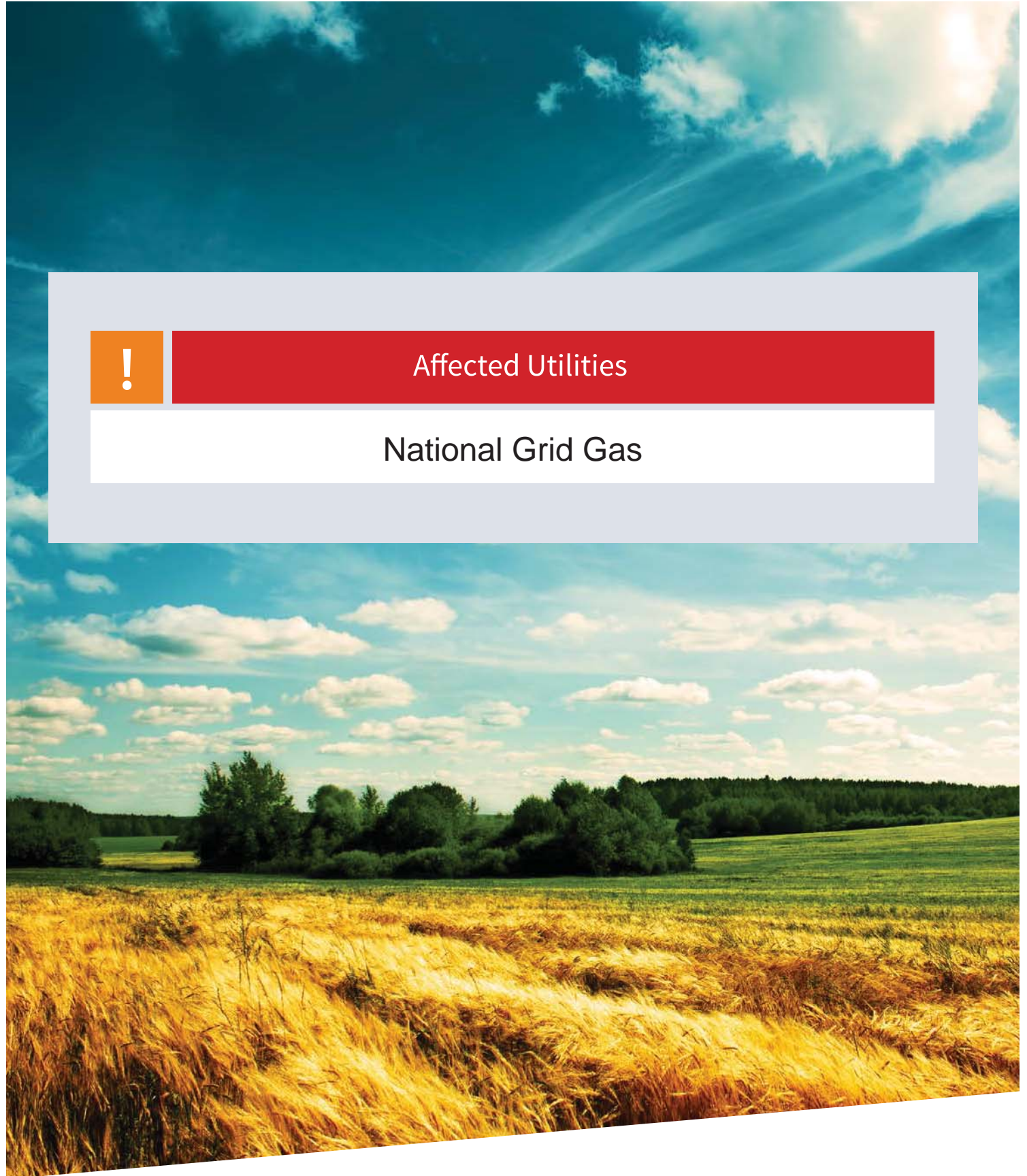
Not in the Zone of Interest		
AWE Pipeline	Gamma	Perenco UK Limited (Purbeck Southampton Pipeline)
BOC Limited (A Member of the Linde Group)	Geo Networks Limited	Phillips 66
BP Midstream Pipelines	Government Pipelines & Storage System	Premier Transmission Ltd (SNIP)
BPA	Humbly Grove Energy	RWEnpower (Little Barford and South Haven)
Centrica Energy	HV Cables	SABIC UK Petrochemicals
Centrica Storage Ltd	IGas Energy	Scottish Power Generation
ConocoPhillips (UK) Ltd	Ineos Enterprises Limited	Seabank Power Ltd
Coryton Energy Co Ltd (Gas Pipeline)	INEOS Manufacturing (Scotland and TSEP)	Shell Pipelines
EirGrid	Lark Energy	Spiecapag UK Limited (Carrington)
Electricity North West Limited	Mainline Pipelines Limited	Total (Finaline, Colnbrook & Colwick Pipelines)
E-on UK Plc (Gas Pipelines Only)	Manchester Jetline Limited	Transmission Capital
ESP Utilities Group	Marchwood Power Ltd (Gas Pipeline)	Wingas Storage UK Ltd
ESSAR	National Grid Gas (above2 bar) and National Grid Electricity Transmission	York Potash
Esso Petroleum Company Limited	NPower CHP Pipelines	
FibreSpeed Limited	Oikos Storage Limited	

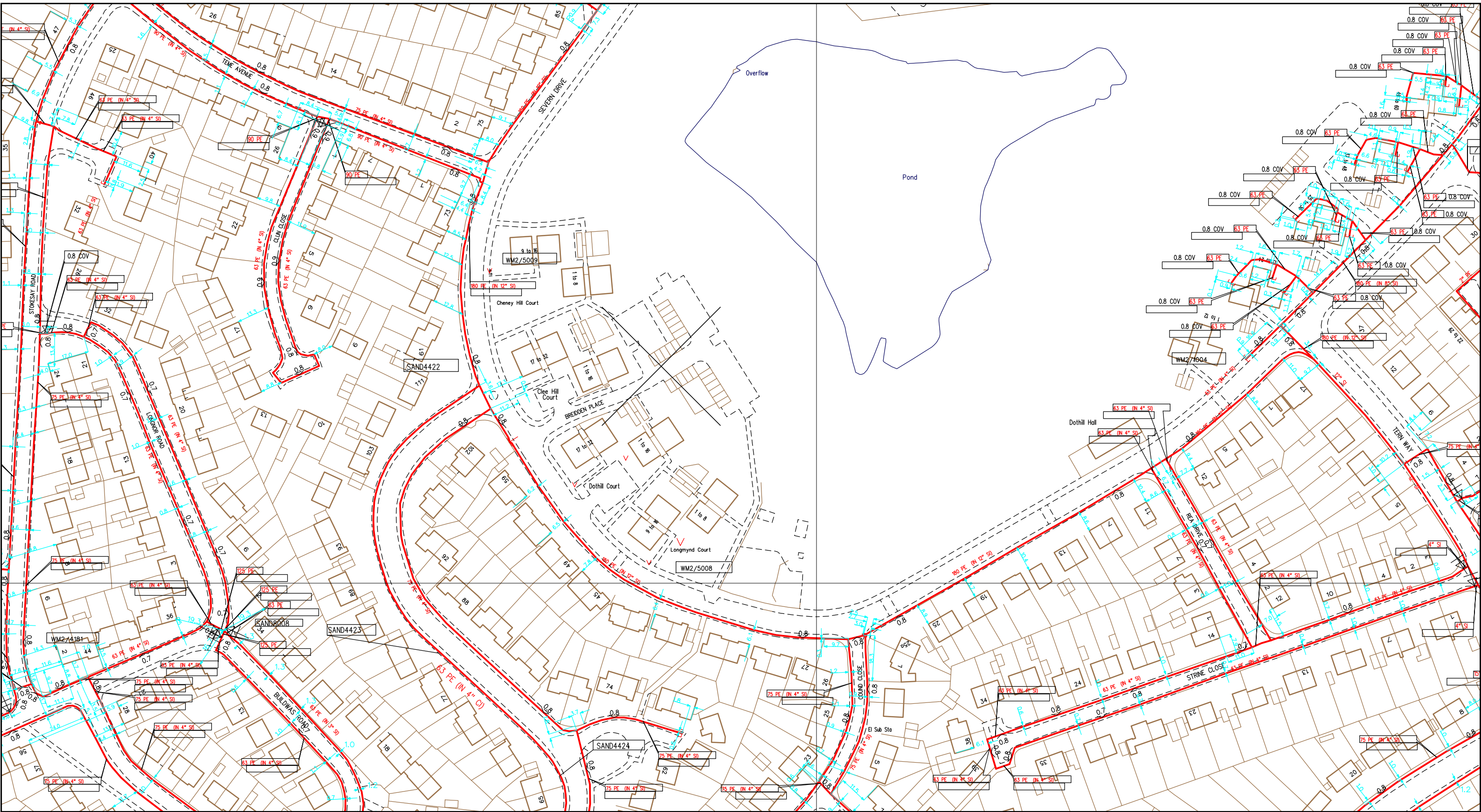
# Utilities Report



## Affected Utilities

National Grid Gas

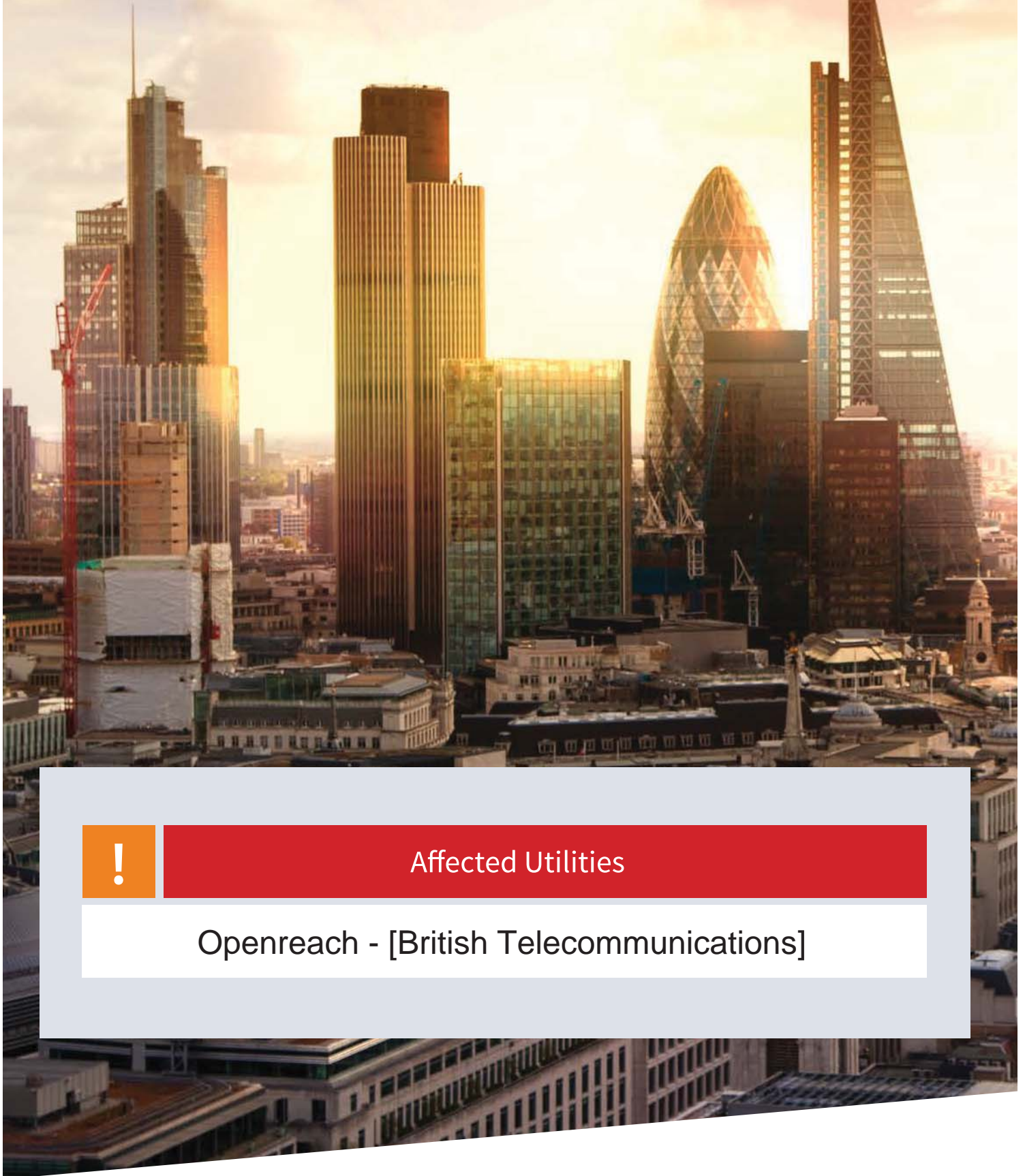




SCALE: Not to scale	LP MAINS		<p>This plan shows those pipes owned by National Grid Gas plc in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.</p>	MAPS Viewer Version 5.6.7.0	
USER ID: mail2801	MP MAINS			<div style="border: 2px solid red; padding: 5px; text-align: center; font-weight: bold; color: red;">             ATKINS CHECKED ASH           </div>	Local Machine
DATE: 24/02/2014	IP MAINS				<p>This plan is reproduced from or based on the OS map by National Grid Gas plc, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.</p>
EXTRACT DATE: 10/12/2013	LHP MAINS				
MAP REF: SJ6412	NHP MAINS				
CENTRE: 364469, 312571	<p>Some examples of Plant Items:</p>				



# Utilities Report



## Affected Utilities

Openreach - [British Telecommunications]



## Openreach Plant Maps Requested

NewSite Office (addresses can be located from [here](#))  
National Freephone: 0800 616 866

Dear Sir/Madam,

Thank you for your request to: [www.openreach.co.uk/networkinfo/](http://www.openreach.co.uk/networkinfo/)

You have downloaded copies of our drawings marked up to show the approximate location of Openreach apparatus, which is present in the immediate vicinity of your works. It 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 made near to Openreach apparatus, which may, exist at various depths and may deviate, from the marked route.

To avoid damage it is recommended that mechanical excavators or borers are not used within 600mm of Openreach plant. Please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by your plant. In the event of clearance not being adequate we anticipate that your plant is either resited, or an order is placed with Openreach for rearrangements of its plant. If there are any difficulties with the Map please ring 0800 616866.

---

Please contact our Network Protection Service if required by dialling 0800 917 3993 or by Email on [DBYD@openreach.co.uk](mailto:DBYD@openreach.co.uk) giving seven days notice of your commencement date. This will provide you with on-site advice and a check of location for any Openreach apparatus.

---

Further to this, I hope the following points will assist you at the new development: -

Openreach has a licence obligation to provide service to any end customer requiring a connection. A Developer would not normally be charged for provision of service, our standard connection charges would apply to the end user when orders are placed with the communication provider of choice. However, should a Developer insist on an underground service in an area where Openreach plant is provided overhead, charges may be incurred.

When the Developer has obtained contract and planning permission Openreach would request a 'Clean', scaled Site Layout, Location Map and a covering letter be sent to the relevant newSite Office. We would particularly request that you give details of your programmed site start date and likely first occupancy date where possible. To obtain contact details of the newSite office covering the development area click on the URL below.

<http://www.openreach.co.uk/orpg/networkinfo/developnetwork/regionalcontacts.do>

Where a development affects existing Openreach apparatus in the public highway, the cost of any necessary protection or diversionary works must be borne by the Developer. In this case where a budget estimate is required a Site Plan, Location Map and a covering letter should be forwarded to the Repayments Project Office. Please visit <http://www.openreach.co.uk/orpg/networkinfo/alternetwork/alterationcontacts.do> for contact details of the Repayments Office covering the development area.

Yours faithfully,

## Openreach newSites

# 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)

Reproduced from the Ordnance Survey map by BT by permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office  
(C) Crown Copyright British Telecommunications plc 100028040

## 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 : SMG02385S

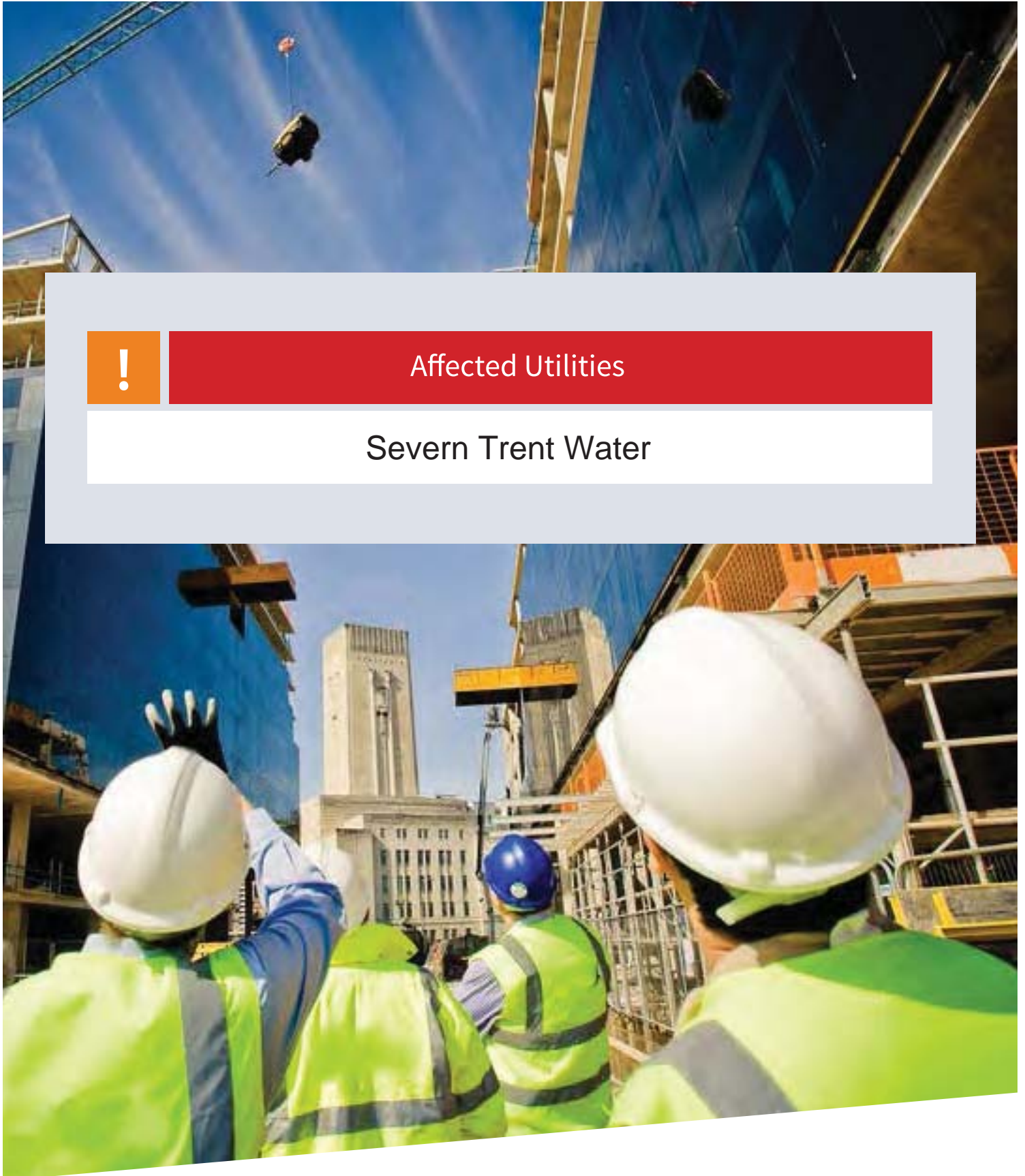
Map Reference : (centre) SJ6443712588

Easting/Northing : (centre) 364437,312588

Issued : 24/02/2014 14:38:31

**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**

# Utilities Report



Affected Utilities

Severn Trent Water



**ATKINS CHECKED  
KM**

**SEVERN TRENT WATER Ltd**  
Asset Data Management  
GISmapping Team  
PO Box 5344  
Coventry  
CV3 9FT

Tel 0845 601 6616  
Fax 02477 715862  
Our Ref 32409

25 February 2014

### Apparatus Location Enquiry

**Further to your enquiry re: Site at Dot Hill, Severn Road, Wellington TF1 3GJ  
(Your ref: ) 29843**

Enclosed is a copy of the plans showing the approximate positions of the **public sewers and water mains** situated within the vicinity of the land/property which is the subject of your enquiry.

**Asset Data Management can only provide plans of the location of the Company's underground assets.** Therefore service pipes and drains are the responsibility of the property owner and should be anticipated during any excavation.

However, we wish to inform you that although most private lateral drains and sewers were transferred to Severn Trent Water's ownership on 1<sup>st</sup> October 2011, the Company does not possess complete records of these assets and therefore they may not be shown on these maps.

Please also find enclosed a copy of Severn Trent Water's General Conditions and Precautions for your information.

**VAT and card payment receipts (where appropriate) are attached herewith together with your enquiry documentation. Please forward VAT receipt to your finance department.**

Kind Regards

GISmapping Team

Enquiry received  
GISmapping:  
25 February 2014

## TERMS AND CONDITIONS AND GENERAL PRECAUTIONS

These general terms and conditions and precautions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an Agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the Agreement for the self construction of water mains) (STW Apparatus) of Severn Trent Water Limited (STW) and are not to be taken as exhaustive.

### TERMS AND CONDITIONS:

1. This plan and any information supplied with it is issued subject to these terms and conditions.
2. This plan and any information supplied with it is furnished as a general guide only and no representation or warranty as to its accuracy is given or implied.
3. In particular, the position and depth of STW Apparatus shown on the plan are approximate only. It is strongly recommended that a survey is carried out to determine the precise location of STW Apparatus. The exact positions and depths should be obtained by excavation trial holes.
4. The position of private drains, private sewers and service pipes to properties are not normally shown on this plan but their presence must be anticipated and you are strongly advised to carry out your own enquiries and investigations to locate them.
5. The position and depth of STW Apparatus may change and therefore this plan is issued subject to any such change. The onus is entirely upon you to confirm whether any changes to the plan have been made subsequent to issue and prior to any works being carried out.
6. This plan and any information shown on it must not be relied upon in the event of any development or other works (including but not limited to excavations) in the vicinity of STW Apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or distribution systems.
7. No person or company shall be relieved from liability for any 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 and any information supplied with it.
8. If any provision of these terms is or becomes invalid or unenforceable, it will be taken to be removed from the rest of these terms to the extent that it is invalid or unenforceable. No other provision of these terms shall be affected.
9. These terms shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts.
2. 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.
3. No explosives are to be used in the vicinity of any STW Apparatus without prior consultation with STW.
4. Where it is proposed to carry out piling or boring within 15 metres of any STW Apparatus, STW should be consulted to enable any affected STW Apparatus to be surveyed prior to the works commencing.
5. 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.
6. 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.
7. No apparatus should be laid along the line of STW Apparatus irrespective of clearance. Above ground apparatus must not be located within 5.0 metres either side of the centre line of STW Apparatus without prior approval. A minimum of radial clearance of 300 millimetres should be allowed between any plant being installed and existing STW Apparatus. No manhole or chamber shall be built over or around any STW Apparatus.
8. 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.
9. With regard to any proposed resurfacing works, you are required to contact STW on the number given below 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.

### PRECAUTIONS:

STW staff will visit any site at reasonable notice to assist in the location of our apparatus and advise of any precautions necessary to avoid damage.

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

1. All STW Apparatus should be located by hand digging prior to the use of mechanical excavators.
10. Trees or shrubs - please ensure that, in relation to STW Apparatus, the mature root systems and canopies of any tree planted do not encroach within the recommended distances specified in the notes overleaf.

## **NOTES:**

### **PARTICULAR RISKS INVOLVED WHEN WORKING WITH SEWERAGE SYSTEMS AND WATER MAINS**

The following risks can be encountered when working on STW Apparatus

- Working in deep excavations.
- Working in the public highway (NRSWA)
- Working in confined spaces.
- Contents of the sewage. i.e. Aggressive Trade Effluent, Petrol, Chemicals etc.
- Accidental spillages may enter a public sewer and cause a harmful and/or explosive atmosphere
- In times of storm the water level in sewers may rise rapidly.
- Sewage can contain rat's urine. Infection from such contaminated sewage can cause Leptospirosis (Weil's Disease) and therefore appropriate hygiene measures should be taken.

**You must not enter the public sewerage system without prior approval.**

### **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.

- 1 Both Poplar and Willow trees have extensive root systems and should not be planted within 10 metres of a sewer, water main or other STW Apparatus.
- 2 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.
- 3 STW personnel require a clear path to conduct surveys etc. No shrubs or bushes should be planted within 1 metre of the centre line of a sewer, water main or other STW Apparatus.
- 4 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.

**Please ensure that a copy of this is passed to your representative and/or your Contractor on site. If any damage is caused to STW apparatus, the person, Contractor or Subcontractor responsible must inform STW immediately on**

**0800 783 4444 (24 hours)**



- Distribution Main
- Trunk Main (local/primary)
- Strategic Main
- - - Fire Supply Main
- - - Fire Main
- - - Non-Domestic Customer Service Pipe
- - - Domestic Customer Service Pipe
- ⋈ Abandoned Main
- Elevated Main
- Aqueduct
- Duct
- Cable, Earthing
- - - Cable, Optical Fibre/Instrumentation
- - - Cable, Low Voltage
- - - Cable, High Voltage
- - - Cable, Other

- ▲ Pumping Facility
- △ Booster Facility
- Potable Water Storage
- Water Tower
- ◆ Well / Borehole
- ◇ Intake
- Water Treatment Works / Chamber
- ⊕ Draw-off Tower
- Bowser Point
- ⊠ Water Facility Connection

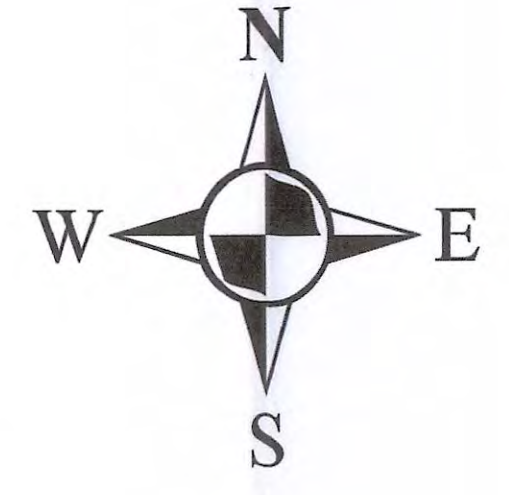
- ⊘ Water Isolation Valve (Closed)
- ⊕ Water Isolation Valve (Open)
- ⊙ Water Isolation Valve (Partially Open)
- ⊕ Water Air Valve
- ⊕ Pressure Reducing Valve
- ⊕ Pressure Sustaining Valve
- ⊕ Non-Return Valve
- ⊕ Float Valve
- ⊕ Hydrant (Single/Double)
- ⊕ Washout (Single/Double)
- ⊕ Bulk Meter
- ⊕ Water Hatch Box
- ⊕ Pressure Tapping
- ⊕ Insertion Flow Meter Point


- ⊕ Water Chemical Injection Point
- ⊕ Motive Water Point
- ⊕ Quality Sample Point
- ⊕ Change In Characteristic
- ⊕ Marker Post
- ⊕ Cable Junction
- ⊕ Anode
- ⊕ Boundary Box
- ⊕ Stop tap
- ⊕ Cross Piece
- ⊕ Strainer
- ⊕ Listening Post
- ⊕ Revenue Meter

- ⊕ Housing, Building
- ⊕ Housing, Kiosk
- ⊕ Housing, Other
- ⊕ Pipe Support Structure
- ⊕ Open Pipe
- ⊕ Discharge
- ⊕ End Cap
- ⊕ SSSI Area
- ⊕ Protective Strip
- ⊕ Pre-1937 Properties

- MATERIALS**
- AC - ASBESTOS CEMENT
  - AK - ALKATHENE
  - C - CONCRETE
  - CI - CAST IRON
  - CU - COPPER
  - GF - GLASS FIBRE
  - GRC - GLASS REINFORCED CONCRETE
  - GRP - GLASS REINFORCED PLASTIC
  - HDPE - HIGH DENSITY POLY
  - HPPE - HIGH PERFORMANCE POLY
  - LDPE - LOW DENSITY POLY
  - LEAD - LEAD
  - MDPE - MEDIUM DENSITY POLY
  - O - OTHER
  - PC - PRE-STRESSED CONCRETE
  - PF - PITCH FIBRE
  - PP - POLY PROPYLENE
  - PSC - PLASTIC STEEL COMPOSITE
  - PVC - POLY VINYL CHLORIDE
  - PM - REINFORCED PLASTIC MATRIX
  - SI - SPUN IRON
  - ST - STAINLESS STEEL
  - ST - STEEL
  - UPVC - UNPLASTICISED PVC

- LINING**
- BI - BITUMEN
  - CL - CEMENT
  - PL - PLASTIC
  - RL - RESIN
  - O - OTHER




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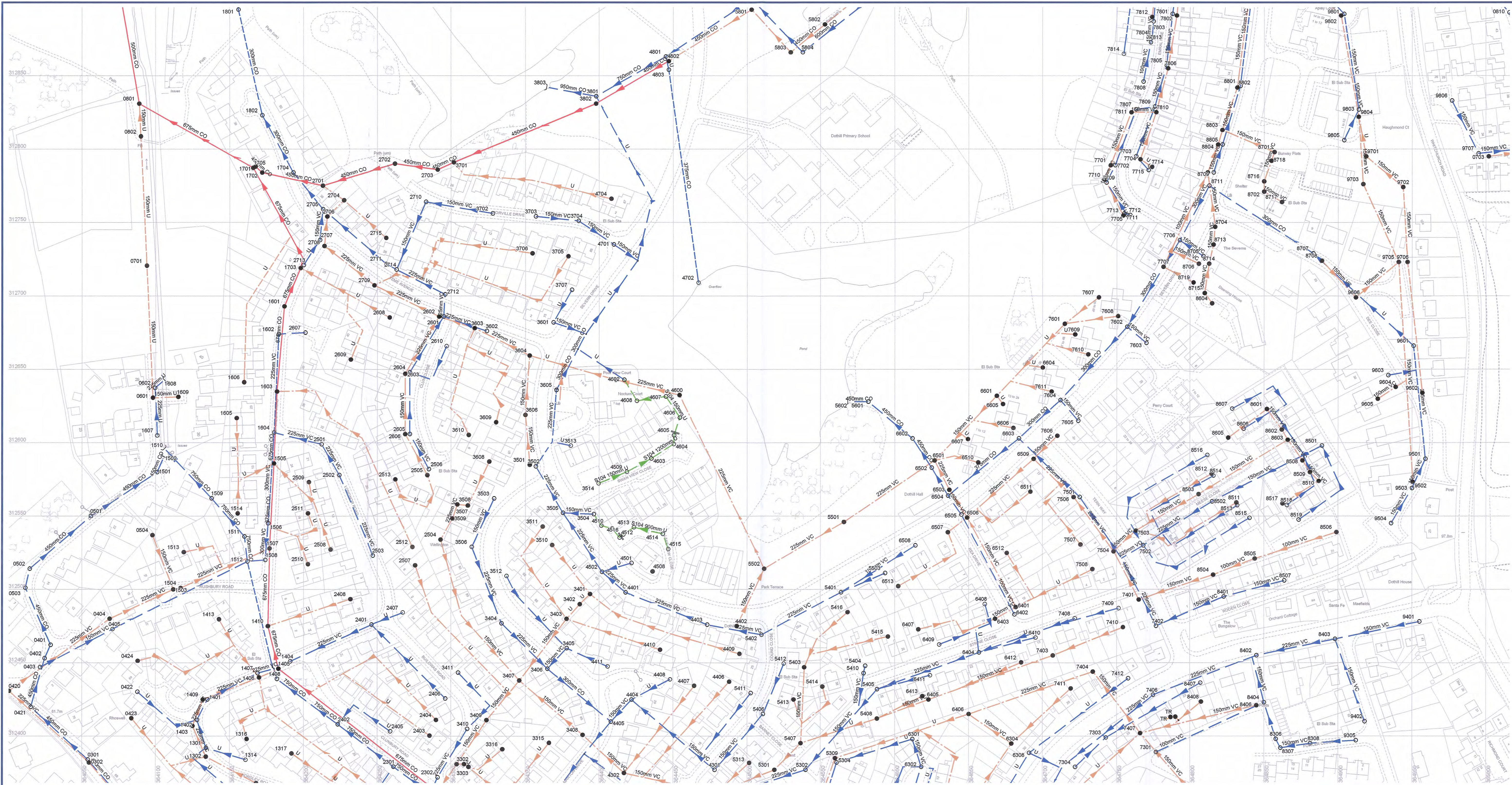
## WATER MAINS RECORD

**O/S Map Scale:** 1:1250  
**Date of Issue:** 25.02.14  
 This map is centred upon:  
 O / S Grid reference:  
**x:** 364508  
**y:** 312632

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**CATEGORIES**

- W - WEIR
  - C - CASCADE
  - DB - DAMBOARD
  - SE - SIDE ENTRY
  - FV - FLAP VALVE
  - BD - BACK DROP
  - S - SIPHON
  - HD - HIGHWAY DRAIN
  - S104 - SECTION 104
- All Private Sewers are shown in magenta  
 All section 104 sewers are shown in green  
 All Sewers that have been transferred to Severn Trent Water after the 1<sup>st</sup> October 2011, but have not been surveyed and confirmed by Severn Trent Water are shown in orange



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**SEWER RECORD**

O/S Map 1:1250  
 scale:  
 Date of issue: 25.02.14

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## Sewer Node

## Sewer Pipe Data

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR LAID
SJ64121212	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64121306	81.78	80.32	80.11	F	VC	C	150	nil	143.95	1979
SJ64121307	82.24	80.78	80.80	F	VC	C	150	nil	0.00	1979
SJ64121310	82.20	80.76	80.33	F	VC	C	150	nil	23.26	1979
SJ64121317	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64121404	80.46	78.96	nil	S	VC	C	225	nil	0.00	1979
SJ64121405	80.48	78.86	78.79	C	CO	C	675	nil	426.14	nil
SJ64121408	80.77	78.40	nil	S	CO	C	750	nil	0.00	nil
SJ64121408	80.77	78.40	nil	S	CO	C	750	nil	0.00	nil
SJ64121410	80.20	78.75	78.62	C	CO	C	675	nil	407.77	nil
SJ64121505	81.15	78.52	78.37	C	CO	C	675	nil	326.93	nil
SJ64121506	80.61	78.44	78.36	S	VC	C	300	nil	313.50	1979
SJ64121507	80.45	78.62	78.53	C	CO	C	675	nil	645.33	nil
SJ64121601	81.97	77.91	77.84	C	CO	C	675	nil	403.29	nil
SJ64121602	82.00	80.67	79.83	S	VC	C	225	nil	79.85	nil
SJ64121603	81.75	78.36	78.01	C	CO	C	675	nil	166.34	nil
SJ64121604	81.41	79.84	78.54	S	VC	C	300	nil	47.79	nil
SJ64121703	81.76	77.81	75.36	C	CO	C	675	nil	31.40	nil
SJ64121704	80.46	78.61	77.73	S	CO	C	300	nil	50.33	nil
SJ64122201	nil	nil	80.02	S	nil	nil	nil	nil	0.00	nil
SJ64122301	81.01	79.07	78.74	S	CO	C	750	nil	144.85	nil
SJ64122301	81.01	79.06	78.75	S	CO	C	750	nil	154.19	nil
SJ64122302	81.19	80.20	80.12	S	VC	C	225	nil	151.00	1979
SJ64122303	81.18	79.29	79.08	S	CO	C	750	nil	146.71	nil
SJ64122303	81.18	79.28	79.09	S	CO	C	750	nil	162.16	nil
SJ64122304	81.29	79.37	78.88	C	CO	C	675	nil	273.64	nil
SJ64122305	nil	nil	80.02	S	U	U	nil	nil	0.00	1979
SJ64122306	81.48	79.98	79.39	S	CO	C	375	nil	90.13	nil
SJ64122307	82.18	nil	80.80	F	U	U	nil	nil	0.00	1979
SJ64122308	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64122309	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64122310	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122311	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122401	82.11	80.59	79.00	S	VC	C	225	nil	38.00	nil
SJ64122402	80.82	78.70	78.44	S	CO	C	750	nil	190.37	nil
SJ64122402	80.82	78.70	78.46	S	CO	C	750	nil	214.17	nil
SJ64122403	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122404	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122405	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64122406	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64122407	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64122408	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122501	82.86	80.95	79.84	S	VC	C	225	nil	29.71	nil
SJ64122502	83.04	81.09	80.95	S	VC	C	225	nil	172.79	nil
SJ64122503	82.75	81.39	81.12	S	VC	C	225	nil	220.81	nil
SJ64122504	86.11	84.68	82.47	F	VC	C	150	nil	50.93	1979

### MATERIALS

- NONE	PE - POLYETHYLENE
AC - ASBESTOS CEMENT	PF - PITCH
BR - BRICK	PP - POLYPROPYLENE
CC - CONCRETE BOX CULVERT	PSC - PLASTIC STEEL COMPOSITE
CI - CAST IRON	PVC - POLYVINYL CHLORIDE
CO - CONCRETE	RPM - REINFORCED PLASTIC MATRIX
CSB - CONCRETE SEGMENTS (BOLTED)	SI - SPIUH (GREY) IROH
CSU - CONCRETE SEGMENTS (UNBOLTED)	ST - STEEL
DI - DUCTILE IRON	U - UNKNOWN
GRC - GLASS REINFORCED CONCRETE	VC - VITRIFIED CLAY
RP - GLASS REINFORCED PLASTIC	XXX - OTHER
MAC - MASONRY IN REGULAR COURSES	
MAR - MASONRY RANDOMLY COURSED	

### SHAPE

C - CIRCULAR	E - EGG SHAPED	R - RECTANGLE	T - TRAPEZOIDAL	U - UNKNOWN
O - OTHER	F - FOUL	L - SLUDGE	S - SURFACE WATER	

**TABULAR KEY**

**A. Sewer pipe data refers to downstream sewer pipe.**

**B. Where the node bifurcates (splits) X and Y indicates downstream sewer pipe.**

**C. Gradient is stated a 1 in...**

### PURPOSE

C - COMBINED	E - FINAL EFFLUENT	F - FOUL	L - SLUDGE	S - SURFACE WATER
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Asset Data Management  
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Telephone: 0845 601 6616

### SEWER RECORD DATA TABLE

O/S Map scale:	1:3500	This map is centred upon:
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Sheet No.	2 of 11	x: 364508
		y: 312632

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**Sewer Node**

**Sewer Pipe Data**

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR LAID
SJ64122505	85.91	83.83	82.97	F	VC	C	150	nil	36.93	1979
SJ64122506	85.90	83.84	83.32	S	VC	C	150	nil	52.48	1979
SJ64122507	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122508	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122509	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122510	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122511	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122512	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122513	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122601	83.77	82.00	81.79	S	VC	C	225	nil	71.57	nil
SJ64122602	83.76	81.43	80.74	F	VC	C	225	nil	70.91	nil
SJ64122603	85.28	82.24	81.47	F	VC	C	150	nil	58.81	1979
SJ64122604	85.19	82.61	82.04	S	VC	C	225	nil	77.93	1979
SJ64122605	85.46	83.30	82.68	S	VC	C	150	nil	67.74	1979
SJ64122606	85.41	82.96	82.22	F	VC	C	150	nil	55.41	1979
SJ64122607	82.43	80.98	80.86	S	VC	C	150	nil	150.25	1979
SJ64122608	nil	nil	nil	F	U	U	nil	nil	0.00	2003
SJ64122609	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64122610	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64122701	82.10	78.06	78.04	C	CO	C	450	nil	2099.00	1914
SJ64122702	80.06	78.09	78.06	C	CO	C	450	nil	1708.00	nil
SJ64122703	80.10	78.16	78.09	C	CO	C	450	nil	418.14	1914
SJ64122704	82.03	nil	78.30	F	nil	nil	nil	nil	0.00	nil
SJ64122705	81.76	79.23	78.66	S	CO	C	300	nil	56.18	nil
SJ64122706	81.55	78.68	nil	F	VC	C	225	nil	0.00	2003
SJ64122707	81.59	79.74	79.37	S	VC	C	150	nil	57.03	2003
SJ64122708	81.85	79.24	78.71	F	VC	C	225	nil	37.92	nil
SJ64122709	83.40	80.67	79.33	F	VC	C	225	nil	32.22	nil
SJ64122710	80.34	79.23	nil	S	VC	C	150	nil	0.00	1979
SJ64122711	nil	nil	79.28	S	nil	nil	nil	nil	0.00	nil
SJ64122712	84.00	81.74	nil	S	VC	C	225	nil	0.00	nil
SJ64122713	nil	nil	79.97	S	U	U	nil	nil	0.00	2003
SJ64122714	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64122715	nil	nil	nil	F	U	U	nil	nil	0.00	2003
SJ64123201	82.61	79.86	nil	C	VC	C	675	nil	0.00	nil
SJ64123202	83.05	81.07	80.80	F	VC	C	225	nil	54.50	1979
SJ64123203	82.49	81.64	81.19	S	VC	C	150	nil	27.36	1979
SJ64123204	82.39	81.39	81.07	S	VC	C	150	nil	99.63	1979
SJ64123205	82.41	80.36	nil	F	VC	C	150	nil	0.00	1979
SJ64123206	83.19	81.65	80.78	S	CO	C	750	nil	53.24	nil
SJ64123206	83.19	81.62	80.81	S	CO	C	750	nil	57.19	nil
SJ64123207	83.26	82.02	nil	S	VC	C	225	nil	0.00	nil
SJ64123217	82.31	81.13	80.77	C	VC	C	150	nil	84.47	1979
SJ64123301	81.68	80.07	79.84	F	VC	C	150	nil	100.09	1979
SJ64123302	nil	nil	80.08	F	nil	nil	nil	nil	0.00	nil
SJ64123303	nil	nil	nil	F	U	U	nil	nil	0.00	1979

**MATERIALS**

-	-NONE
AC	-ASBESTOS CEMENT
BR	-BRICK
CC	-CONCRETE BOX CULVERT
CI	-CAST IRON
CO	-CONCRETE
CSB	-CONCRETE SEGMENTS (BOLTED)
CSU	-CONCRETE SEGMENTS (UNBOLTED)
DI	-DUCTILE IRON
GRC	-GLASS REINFORCED CONCRETE
RP	-GLASS REINFORCED PLASTIC
MAC	-MASONRY IN REGULAR COURSES
MAR	-MASONRY RANDOMLY COURSED

**SHAPE**

PE	-POLYETHYLENE
PF	-PITCH
PP	-POLYPROPYLENE
PSC	-PLASTIC STEEL COMPOSITE
PVC	-POLYVINYL CHLORIDE
RPM	-REINFORCED PLASTIC MATRIX
SI	-SPUN (GREY) IRON
ST	-STEEL
U	-UNKNOWN
VC	-VITRIFIED CLAY
XXX	-OTHER

**PURPOSE**

C	-COMBINED
E	-FINAL EFFLUENT
F	-FOUL
L	-SLUDGE
S	-SURFACE WATER

**TABULAR KEY**

- A. Sewer pipe data refers to downstream sewer pipe.**
- B. Where the node bifurcates (splits) X and Y indicates downstream sewer pipe.**
- C. Gradient is stated a 1 in...**



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 Asset Data Management  
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 Telephone: 0845 601 6616

**SEWER RECORD DATA TABLE**

<b>O/S Map scale:</b>	1:3500	<b>This map is centred upon:</b>	
<b>Date of Issue:</b>	25.02.14	<b>x:</b>	364508
<b>Sheet No.</b>	3 of 11	<b>y:</b>	312632

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## Sewer Node

## Sewer Pipe Data

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR LAID
SJ64123304	83.37	81.45	81.06	S	CO	C	375	nil	104.13	nil
SJ64123305	82.21	81.05	nil	S	CO	C	375	nil	0.00	1979
SJ64123306	82.18	79.60	79.39	C	CO	C	675	nil	322.00	nil
SJ64123307	82.31	80.78	nil	S	CO	C	750	nil	0.00	nil
SJ64123307	82.31	80.78	nil	S	CO	C	750	nil	0.00	nil
SJ64123308	82.82	80.79	80.13	F	VC	C	225	nil	47.91	1979
SJ64123309	82.27	80.65	79.27	S	CO	C	750	nil	44.36	nil
SJ64123309	82.27	80.67	79.28	S	CO	C	750	nil	44.04	nil
SJ64123310	82.38	81.03	80.88	S	VC	C	150	nil	139.93	1979
SJ64123313	82.37	80.75	80.09	C	VC	C	150	nil	17.59	1979
SJ64123314	82.25	79.59	79.58	C	CO	C	600	nil	1270.00	nil
SJ64123315	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64123316	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64123401	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64123402	nil	nil	84.90	F	U	U	nil	nil	0.00	1979
SJ64123403	86.31	84.87	82.44	F	VC	C	150	nil	21.64	1979
SJ64123404	85.73	83.76	83.46	S	VC	C	225	nil	151.17	nil
SJ64123405	85.52	83.83	83.46	S	VC	C	150	nil	53.06	nil
SJ64123406	85.16	83.42	83.03	S	CO	C	300	nil	143.79	nil
SJ64123407	85.10	82.42	81.92	F	VC	C	150	nil	69.66	nil
SJ64123408	84.68	83.36	82.45	F	VC	C	150	nil	61.66	1979
SJ64123409	83.24	81.22	80.07	F	VC	C	150	nil	31.36	1979
SJ64123410	82.64	81.00	80.21	S	VC	C	225	nil	48.24	nil
SJ64123411	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64123501	87.30	84.91	84.34	F	VC	C	150	nil	59.88	1979
SJ64123502	87.39	85.37	83.40	S	VC	C	225	nil	28.21	nil
SJ64123503	87.05	85.37	84.50	S	VC	C	150	nil	41.67	1979
SJ64123504	89.85	87.84	87.25	S	VC	C	150	nil	32.22	1979
SJ64123505	89.33	87.12	85.37	S	VC	C	225	nil	22.06	1979
SJ64123506	86.22	84.48	83.76	S	VC	C	225	nil	77.38	1979
SJ64123507	86.69	85.43	85.40	F	VC	C	150	nil	237.67	1979
SJ64123508	86.61	85.38	85.09	F	VC	C	225	nil	35.00	1979
SJ64123509	86.37	85.04	84.69	F	VC	C	150	nil	47.06	1979
SJ64123510	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64123511	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64123512	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64123513	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64123514	88.42	87.10	86.86	S	U	U	150	nil	86.17	nil
SJ64123601	84.91	83.05	nil	S	VC	C	150	nil	0.00	1979
SJ64123602	84.33	82.93	82.08	S	VC	C	150	nil	36.09	nil
SJ64123603	84.41	81.65	81.41	F	VC	C	225	nil	105.42	nil
SJ64123604	84.67	82.16	81.65	F	VC	C	225	nil	87.80	1979
SJ64123605	84.95	83.35	nil	S	CO	C	300	nil	0.00	nil
SJ64123606	86.40	84.34	82.28	F	VC	C	150	nil	20.19	1979
SJ64123608	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64123609	nil	nil	nil	F	U	U	nil	nil	0.00	1979

### MATERIALS

-	- NONE	PE	- POLYETHYLENE
AC	- ASBESTOS CEMENT	PF	- PITCH
BR	- BRICK	PP	- POLYPROPYLENE
CC	- CONCRETE BOX CULVERT	PSC	- PLASTIC STEEL COMPOSITE
CI	- CAST IRON	PVC	- POLYVINYL CHLORIDE
CO	- CONCRETE	RPM	- REINFORCED PLASTIC MATRX
CSB	- CONCRETE SEGMENTS (BOLTED)	SJ	- SPUH (GREY) IROH
CSU	- CONCRETE SEGMENTS (UNBOLTED)	ST	- STEEL
DI	- DUCTILE IRON	U	- UNKNOWN
GRC	- GLASS REINFORCED CONCRETE	VC	- VITRIFIED CLAY
RP	- GLASS REINFORCED PLASTIC	XXX	- OTHER
MAC	- MASONRY IN REGULAR COURSES		
MAR	- MASONRY RANDOMLY COURSED		

### SHAPE

C	- CIRCULAR
E	- EGG SHAPED
O	- OTHER
R	- RECTANGLE
S	- SQUARE
T	- TRAPEZOIDAL
U	- UNKNOWN

### PURPOSE

C	- COMBINED
E	- FINAL EFFLUENT
F	- FOUL
L	- SLUDGE
S	- SURFACE WATER

#### TABULAR KEY

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**Sewer Node**

**Sewer Pipe Data**

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR LAID
SJ64123610	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64123701	80.08	78.20	78.16	C	CO	C	450	nil	302.00	1979
SJ64123702	82.22	80.66	79.27	S	VC	C	150	nil	32.88	1979
SJ64123703	85.07	83.57	82.74	S	VC	C	150	nil	35.12	1979
SJ64123704	85.07	82.70	82.37	S	VC	C	150	nil	87.39	1979
SJ64123705	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64123706	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64123707	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64123801	80.49	77.59	77.00	S	CO	C	950	nil	55.19	nil
SJ64123802	80.85	78.49	78.20	C	CO	C	450	nil	358.62	1979
SJ64124201	83.41	81.82	nil	S	CO	C	750	nil	0.00	nil
SJ64124201	83.41	81.83	nil	S	CO	C	750	nil	0.00	nil
SJ64124203	83.48	81.99	81.11	F	VC	C	225	nil	47.52	nil
SJ64124212	84.68	83.22	82.90	S	VC	C	225	nil	133.75	nil
SJ64124216	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64124301	90.70	88.92	85.31	S	VC	C	150	nil	20.38	1979
SJ64124302	85.80	83.47	83.36	F	VC	C	150	nil	347.36	1979
SJ64124303	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64124304	90.18	85.74	83.48	F	VC	C	150	nil	28.07	nil
SJ64124305	87.16	85.83	nil	S	VC	C	150	nil	0.00	nil
SJ64124306	nil	nil	82.04	S	U	U	nil	nil	0.00	1979
SJ64124307	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64124308	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64124309	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64124310	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64124401	91.86	89.91	89.78	S	VC	C	225	nil	163.54	1979
SJ64124402	92.54	91.53	87.28	F	VC	C	150	nil	10.21	1979
SJ64124403	92.87	90.50	89.93	S	VC	C	225	nil	103.93	1979
SJ64124404	87.81	85.29	83.16	S	VC	C	150	nil	9.63	1979
SJ64124405	84.80	83.01	nil	S	CO	C	300	nil	0.00	1979
SJ64124406	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64124407	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64124408	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64124409	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64124410	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64124411	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64124501	nil	nil	89.82	S	U	U	nil	nil	0.00	1979
SJ64124502	91.39	89.77	87.15	S	VC	C	225	nil	17.70	1979
SJ64124509	88.11	86.86	85.50	S	U	U	225	nil	13.89	nil
SJ64124510	90.75	88.33	87.75	S	U	U	150	nil	16.47	nil
SJ64124511	90.80	88.42	88.33	S	U	U	150	nil	87.18	nil
SJ64124512	91.25	88.50	88.42	S	U	U	150	nil	98.25	nil
SJ64124513	90.69	88.55	88.50	S	U	U	900	nil	197.56	nil
SJ64124514	91.02	88.65	88.55	S	U	U	900	nil	197.80	nil
SJ64124515	91.38	90.00	88.65	S	U	U	150	nil	8.18	nil
SJ64124516	91.15	88.50	88.50	S	U	U	150	nil	314.00	nil

**MATERIALS**

-	-NONE	PE	-POLYETHYLENE
AC	-ASBESTOS CEMENT	PF	-PITCH
BR	-BRICK	PP	-POLYPROPYLENE
CC	-CONCRETE BOX CULVERT	PSC	-PLASTIC STEEL COMPOSITE
CI	-CAST IRON	PVC	-POLYVINYL CHLORIDE
CO	-CONCRETE	RPM	-REINFORCED PLASTIC MATRIX
CSB	-CONCRETE SEGMENTS (BOLTED)	SI	-SPUN (GREY) IRON
CSU	-CONCRETE SEGMENTS (UNBOLTED)	ST	-STEEL
DI	-DUCTILE IRON	U	-UNKNOWN
GRC	-GLASS REINFORCED CONCRETE	VC	-VITRIFIED CLAY
RP	-GLASS REINFORCED PLASTIC	XXX	-OTHER
MAC	-MASONRY IN REGULAR COURSES		
MAR	-MASONRY RANDOMLY COURSED		

**SHAPE**

C	-CIRCULAR
E	-EGG SHAPED
O	-OTHER
R	-RECTANGLE
S	-SQUARE
T	-TRAPEZOIDAL
U	-UNKNOWN

**PURPOSE**

C	-COMBINED
E	-FINAL EFFLUENT
F	-FOUL
L	-SLUDGE
S	-SURFACE WATER

**TABULAR KEY**

- A. Sewer pipe data refers to downstream sewer pipe.
- B. Where the node bifurcates (splits) X and Y indicates downstream sewer pipe.
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**SEWER RECORD DATA TABLE**

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## Sewer Node

## Sewer Pipe Data

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR LAID
SJ64124600	nil	87.17	nil	F	VC	C	225	nil	0.00	1979
SJ64124601	nil	nil	82.17	F	U	U	nil	nil	0.00	1979
SJ64124602	84.98	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64124603	87.60	85.50	85.44	S	U	U	1200	nil	300.50	nil
SJ64124604	87.49	85.44	85.42	S	U	U	1200	nil	299.50	nil
SJ64124605	87.41	85.42	85.09	S	U	U	150	nil	38.06	nil
SJ64124606	87.01	85.09	84.69	S	U	U	150	nil	43.17	nil
SJ64124607	85.68	84.24	84.24	S	U	U	150	nil	0.00	nil
SJ64124608	85.70	84.24	83.84	S	U	U	nil	nil	41.33	nil
SJ64124701	83.98	82.33	nil	S	VC	C	150	nil	0.00	1979
SJ64124702	83.26	82.04	nil	S	CO	C	375	nil	0.00	1979
SJ64124704	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64124801	81.08	77.64	77.60	S	CO	C	750	nil	1355.00	nil
SJ64124802	81.21	78.61	78.50	C	CO	C	450	nil	517.64	1979
SJ64124803	nil	nil	79.62	S	U	U	nil	nil	0.00	1979
SJ64125202	90.25	87.28	87.23	F	CO	C	375	nil	126.20	1979
SJ64125204	85.59	83.46	83.08	F	VC	C	225	nil	96.79	1979
SJ64125206	89.24	88.60	85.51	S	VC	C	225	nil	4.44	1979
SJ64125207	90.66	87.98	86.63	S	VC	C	225	nil	8.57	1979
SJ64125208	89.28	87.22	87.13	F	CO	C	375	nil	201.67	nil
SJ64125209	86.09	84.32	83.50	F	VC	C	225	nil	13.40	nil
SJ64125210	88.72	85.20	85.23	F	VC	C	225	nil	0.00	nil
SJ64125210	88.72	85.21	85.23	F	VC	C	225	nil	0.00	nil
SJ64125210	88.72	87.26	87.25	F	CO	R	1950	660	536.00	nil
SJ64125211	88.70	85.19	84.39	F	VC	C	225	nil	14.05	nil
SJ64125212	86.64	85.39	83.27	S	VC	C	225	nil	23.58	nil
SJ64125301	91.37	87.59	88.29	F	VC	C	150	nil	0.00	nil
SJ64125302	91.22	89.35	nil	S	VC	C	225	nil	0.00	nil
SJ64125304	92.13	90.37	88.72	S	VC	C	225	nil	47.75	1979
SJ64125306	90.97	89.06	88.03	S	VC	C	150	nil	17.37	nil
SJ64125307	89.59	88.01	85.86	S	VC	C	150	nil	16.33	nil
SJ64125308	92.68	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64125309	92.10	89.50	87.64	F	VC	C	225	nil	43.90	1979
SJ64125310	90.40	88.67	88.05	S	VC	C	225	nil	19.65	1979
SJ64125311	90.29	87.44	87.30	F	CO	C	375	nil	113.79	1979
SJ64125312	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64125313	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64125401	93.39	91.24	90.89	S	VC	C	225	nil	175.11	1979
SJ64125402	92.93	90.86	90.50	S	VC	C	225	nil	104.61	nil
SJ64125403	92.82	90.46	89.79	F	VC	C	150	nil	77.40	nil
SJ64125404	93.90	92.22	91.78	S	VC	C	150	nil	11.59	1979
SJ64125405	94.05	91.54	89.36	S	VC	C	150	nil	33.49	1979
SJ64125406	92.83	91.26	88.94	S	VC	C	150	nil	21.69	nil
SJ64125407	92.60	89.74	87.59	F	VC	C	150	nil	11.84	nil
SJ64125408	nil	nil	91.23	F	U	U	nil	nil	0.00	1979
SJ64125410	93.86	91.60	nil	S	VC	C	150	nil	0.00	nil

### MATERIALS

- NONE	PE - POLYETHYLENE	PF - PITCH	PP - POLYPROPYLENE	PSC - PLASTIC STEEL COMPOSITE	PVC - POLYVINYL CHLORIDE	RPM - REINFORCED PLASTIC MATRIX	SI - SPUN (GREY) IRON	ST - STEEL	U - UNKNOWN	VC - VITRIFIED CLAY	XXX - OTHER
AC - ASBESTOS CEMENT											
BR - BRICK											
CC - CONCRETE BOX CULVERT											
CI - CAST IRON											
CO - CONCRETE											
CSB - CONCRETE SEGMENTS (BOLTED)											
CSU - CONCRETE SEGMENTS (UNBOLTED)											
DI - DUCTILE IRON											
GRC - GLASS REINFORCED CONCRETE											
RP - GLASS REINFORCED PLASTIC											
MAC - MASONRY IN REGULAR COURSES											
MAR - MASONRY RANDOMLY COURSED											

### SHAPE

C - CIRCULAR	E - EGG SHAPED	O - OTHER	R - RECTANGLE	S - SQUARE	T - TRAPEZOIDAL	U - UNKNOWN
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### TABULAR KEY

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### PURPOSE

C - COMBINED	E - FINAL EFFLUENT	F - FOUL	L - SLUDGE	S - SURFACE WATER
--------------	--------------------	----------	------------	-------------------



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## Sewer Node

## Sewer Pipe Data

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR LAID
SJ64125411	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64125412	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64125413	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64125414	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64125415	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64125416	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64125501	89.53	87.84	87.17	F	VC	C	225	nil	93.69	1979
SJ64125502	89.37	87.17	nil	F	VC	C	225	nil	0.00	1979
SJ64125503	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64125601	84.27	83.09	81.97	S	CO	C	450	nil	10.71	nil
SJ64125801	78.43	77.29	78.59	F	CO	C	450	nil	0.00	nil
SJ64125802	78.95	77.76	nil	F	CO	C	450	nil	0.00	nil
SJ64125803	nil	nil	77.31	F	nil	nil	nil	nil	0.00	nil
SJ64125804	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64125901	nil	nil	77.67	S	nil	nil	nil	nil	0.00	nil
SJ64125902	78.48	76.90	nil	S	CO	C	600	nil	0.00	nil
SJ64125903	78.55	76.39	76.95	F	VC	C	150	nil	0.00	1979
SJ64125904	78.68	76.99	77.53	S	VC	C	225	nil	0.00	1979
SJ64126201	92.69	91.26	nil	S	VC	C	150	nil	0.00	nil
SJ64126202	92.15	90.65	nil	S	VC	C	150	nil	0.00	1979
SJ64126203	91.76	90.87	90.44	F	VC	C	150	nil	21.93	1979
SJ64126204	nil	nil	88.10	F	U	U	nil	nil	0.00	1979
SJ64126208	nil	nil	90.00	S	U	U	nil	nil	0.00	1979
SJ64126210	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126211	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64126301	nil	nil	90.45	S	U	U	nil	nil	0.00	1979
SJ64126302	93.30	91.81	nil	S	VC	C	150	nil	0.00	1979
SJ64126303	93.70	92.09	91.84	S	VC	C	150	nil	54.40	1979
SJ64126304	93.46	91.79	nil	F	VC	C	150	nil	0.00	nil
SJ64126305	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126306	92.49	89.35	88.13	S	VC	C	375	nil	62.74	1979
SJ64126307	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126308	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64126309	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64126310	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126311	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126312	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126313	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64126401	94.27	92.06	90.96	F	VC	C	150	nil	63.05	1979
SJ64126402	94.27	93.52	91.48	S	VC	C	100	nil	37.72	1979
SJ64126403	93.94	92.46	92.07	F	VC	C	150	nil	41.33	1979
SJ64126404	93.84	92.08	91.54	S	VC	C	225	nil	135.91	1979
SJ64126405	94.36	91.78	nil	F	VC	C	150	nil	0.00	nil
SJ64126406	nil	nil	89.54	F	U	U	nil	nil	0.00	1979
SJ64126407	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126408	nil	nil	nil	S	U	U	nil	nil	0.00	1979

### MATERIALS

- NONE	PE - POLYETHYLENE	PF - PITCH	PP - POLYPROPYLENE	PSC - PLASTIC STEEL COMPOSITE	PVC - POLYVINYL CHLORIDE	RPM - REINFORCED PLASTIC MATRIX	SI - SPUN (GREY) IRON	ST - STEEL	U - UNKNOWN	VC - VITRIFIED CLAY	XXX - OTHER
AC - ASBESTOS CEMENT											
BR - BRICK											
CC - CONCRETE BOX CULVERT											
CI - CAST IRON											
CO - CONCRETE											
CSB - CONCRETE SEGMENTS (BOLTED)											
CSU - CONCRETE SEGMENTS (UNBOLTED)											
DI - DUCTILE IRON											
GRC - GLASS REINFORCED CONCRETE											
RP - GLASS REINFORCED PLASTIC											
MAC - MASONRY IN REGULAR COURSES											
MAR - MASONRY RANDOMLY COURSED											

### SHAPE

C - CIRCULAR	E - EGG SHAPED	O - OTHER	R - RECTANGLE	S - SQUARE	T - TRAPEZOIDAL	U - UNKNOWN
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### TABULAR KEY

- A. Sewer pipe data refers to downstream sewer pipe.
- B. Where the node bifurcates (splits) X and Y indicates downstream sewer pipe.
- C. Gradient is stated a 1 in...

### PURPOSE

C - COMBINED	E - FINAL EFFLUENT	F - FOUL	L - SLUDGE	S - SURFACE WATER
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Sewer Trent Water Limited  
Asset Data Management  
PO Box 5344  
Coventry  
CV3 9FT  
Telephone: 0845 601 6616

### SEWER RECORD DATA TABLE

D/S Map scale:	1:3500	This map is centred upon:	O / S Grid reference:
Date of Issue:	25.02.14	X:	364508
Sheet No.	7 of 11	Y:	312632

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## Sewer Node

## Sewer Pipe Data

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR LAID
SJ64126409	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64126410	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64126411	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64126412	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126413	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126501	86.97	85.95	87.85	F	VC	C	225	nil	0.00	1979
SJ64126502	87.69	84.19	81.15	S	CO	C	450	nil	7.85	nil
SJ64126503	92.29	90.58	86.00	F	VC	C	225	nil	4.88	1979
SJ64126504	91.65	88.86	84.22	S	CO	C	375	nil	4.73	nil
SJ64126505	93.21	91.43	89.68	S	VC	C	150	nil	9.03	1979
SJ64126506	93.26	90.86	90.58	F	VC	C	225	nil	80.25	1979
SJ64126507	93.57	91.30	90.90	F	VC	C	150	nil	41.00	1979
SJ64126508	93.46	91.81	91.34	S	VC	C	150	nil	126.30	1979
SJ64126509	94.43	91.72	90.88	F	VC	C	225	nil	71.68	1979
SJ64126510	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126511	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126512	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126513	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64126601	93.43	91.37	86.04	F	VC	C	150	nil	11.41	1979
SJ64126602	84.27	81.11	83.09	S	CO	C	450	nil	0.00	nil
SJ64126603	94.18	91.94	88.88	S	CO	C	375	nil	20.21	1979
SJ64126604	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64126605	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64126606	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64126607	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64126801	76.82	75.47	76.91	S	CO	C	600	nil	0.00	nil
SJ64126901	79.96	78.62	77.91	F	CO	C	450	nil	71.55	nil
SJ64126902	79.05	77.90	77.76	F	CO	C	450	nil	461.86	nil
SJ64127201	93.79	91.50	nil	F	VC	C	150	nil	0.00	1979
SJ64127202	93.11	91.75	89.41	S	VC	C	225	nil	41.10	1979
SJ64127301	95.41	94.95	95.67	S	VC	C	100	nil	0.00	nil
SJ64127302	95.33	92.93	nil	S	VC	C	225	nil	0.00	1979
SJ64127303	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64127304	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64127305	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64127306	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64127307	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64127308	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64127309	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64127401	96.05	94.16	92.90	F	VC	C	150	nil	29.46	1979
SJ64127402	96.02	94.03	92.83	S	VC	C	225	nil	85.33	1979
SJ64127403	94.34	92.63	91.82	F	VC	C	150	nil	110.12	nil
SJ64127404	92.91	90.68	nil	F	VC	C	225	nil	0.00	1979
SJ64127406	94.64	92.86	89.38	S	VC	C	225	nil	47.87	1979
SJ64127407	93.99	92.24	90.71	F	VC	C	150	nil	34.51	1979
SJ64127408	nil	nil	nil	S	U	U	nil	nil	0.00	1979

### MATERIALS

-	-NONE	PE	-POLYETHYLENE
AC	-ASBESTOS CEMENT	PF	-PITCH
BR	-BRICK	PP	-POLYPROPYLENE
CC	-CONCRETE BOX CULVERT	PSC	-PLASTIC STEEL COMPOSITE
CI	-CAST IRON	PVC	-POLYVINYL CHLORIDE
CO	-CONCRETE	RPM	-REINFORCED PLASTIC MATRIX
CSB	-CONCRETE SEGMENTS (BOLTED)	SI	-SPUN (GREY) IRON
CSU	-CONCRETE SEGMENTS (UNBOLTED)	ST	-STEEL
DI	-DUCTILE IRON	U	-UNKNOWN
GRC	-GLASS REINFORCED CONCRETE	VC	-VITRIFIED CLAY
RP	-GLASS REINFORCED PLASTIC	XXX	-OTHER
MAC	-MASONRY IN REGULAR COURSES		
MAR	-MASONRY RANDOMLY COURSED		

### SHAPE

C	-CIRCULAR
E	-EGG SHAPED
O	-OTHER
R	-RECTANGLE
S	-SQUARE
T	-TRAPEZOIDAL
U	-UNKNOWN

**TABULAR KEY**

**A. Sewer pipe data refers to downstream sewer pipe.**

**B. Where the node bifurcates (splits) X and Y indicates downstream sewer pipe.**

**C. Gradient is stated a 1 in...**

### PURPOSE

C	-COMBINED
E	-FINAL EFFLUENT
F	-FOUL
L	-SLUDGE
S	-SURFACE WATER



Severn Trent Water Limited  
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### SEWER RECORD DATA TABLE

O/S Map scale:	1:3500	This map is centred upon:	
Date of Issue:	25.02.14	X:	364508
Sheet No.	8 of 11	Y:	312632

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## Sewer Node

## Sewer Pipe Data

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR LAID
SJ64127409	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64127410	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64127411	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64127412	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64127501	94.95	92.83	91.99	S	CO	C	300	nil	68.19	1979
SJ64127502	96.24	94.01	nil	S	VC	C	225	nil	0.00	1979
SJ64127503	96.74	94.45	93.82	F	VC	C	150	nil	32.57	1979
SJ64127504	95.54	92.87	92.11	F	VC	C	225	nil	60.26	1979
SJ64127506	94.79	92.11	91.72	F	VC	C	225	nil	96.10	1979
SJ64127507	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64127508	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64127601	nil	nil	91.38	F	U	U	nil	nil	0.00	1979
SJ64127602	95.69	94.00	92.94	S	CO	C	300	nil	63.46	1979
SJ64127603	95.80	94.66	94.18	S	VC	C	150	nil	35.48	1979
SJ64127604	94.99	92.91	91.97	S	CO	C	300	nil	40.65	1979
SJ64127605	94.42	92.78	93.14	S	VC	C	150	nil	0.00	1979
SJ64127606	94.79	92.35	91.73	F	VC	C	150	nil	36.27	nil
SJ64127607	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64127608	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64127609	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64127610	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64127611	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64127701	95.57	94.31	93.91	F	VC	C	150	nil	96.58	1979
SJ64127702	95.56	94.56	94.07	S	VC	C	150	nil	82.65	1979
SJ64127703	95.69	94.97	93.51	S	VC	C	150	nil	24.93	1979
SJ64127704	95.69	94.72	93.31	F	VC	C	150	nil	24.00	1979
SJ64127705	95.86	95.10	94.81	S	VC	C	150	nil	89.93	1979
SJ64127706	96.12	94.38	94.04	S	CO	C	300	nil	203.29	1979
SJ64127707	96.23	95.31	nil	F	VC	C	100	nil	0.00	nil
SJ64127709	95.55	94.81	94.58	S	VC	C	150	nil	58.35	1979
SJ64127710	95.49	94.59	94.34	F	VC	C	150	nil	43.08	1979
SJ64127711	96.56	95.40	95.15	S	VC	C	150	nil	8.96	nil
SJ64127712	96.85	95.90	95.44	S	VC	C	100	nil	8.96	nil
SJ64127713	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64127714	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64127715	nil	nil	nil	S	U	U	nil	nil	0.00	1979
SJ64127801	90.52	89.59	86.25	S	VC	C	150	nil	11.48	1944
SJ64127802	90.50	88.29	85.96	F	VC	C	150	nil	17.68	1944
SJ64127803	90.74	89.66	86.04	S	VC	C	150	nil	19.43	1944
SJ64127804	92.02	90.46	89.74	S	VC	C	150	nil	15.35	1979
SJ64127805	93.46	91.89	89.71	S	VC	C	150	nil	16.16	1979
SJ64127806	93.55	91.63	89.32	F	VC	C	150	nil	15.80	1979
SJ64127807	94.86	94.06	93.51	S	VC	C	150	nil	23.91	1979
SJ64127808	94.32	92.68	90.96	S	VC	C	100	nil	15.86	1979
SJ64127809	94.77	93.47	91.89	S	VC	C	150	nil	18.43	1979
SJ64127810	94.81	93.28	91.70	F	VC	C	150	nil	19.65	1979

### MATERIALS

-	- NONE	PE	- POLYETHYLENE
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CC	- CONCRETE BOX CULVERT	PSC	- PLASTIC STEEL COMPOSITE
CI	- CAST IRON	PVC	- POLYVINYL CHLORIDE
CO	- CONCRETE	RPM	- REINFORCED PLASTIC MATRX
CSB	- CONCRETE SEGMENTS (BOLTED)	SI	- SPUH (GREY) IRON
CSU	- CONCRETE SEGMENTS (UNBOLTED)	ST	- STEEL
DI	- DUCTILE IRON	U	- UNKNOWN
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### SHAPE

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C	- COMBINED
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### TABULAR KEY

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Asset Data Management  
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### SEWER RECORD DATA TABLE

O/S Map scales:	1:3500	This map is centred upon:	O / S Grid reference:
Date of issue:	25.02.14	x:	364508
Sheet No.	9 of 11	y:	312632

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## Sewer Node

## Sewer Pipe Data

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SJ64127811	94.88	93.86	93.31	F	VC	C	150	nil	30.91	1979
SJ64127812	90.56	89.06	85.71	F	VC	C	150	nil	21.40	nil
SJ64127813	92.10	90.92	90.61	S	VC	C	150	nil	10.71	1979
SJ64127814	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64127901	82.74	80.36	79.18	S	CO	C	300	nil	45.64	1979
SJ64127902	82.40	80.34	79.48	F	VC	C	225	nil	64.62	1944
SJ64127903	84.12	81.30	80.98	F	VC	C	225	nil	60.13	1944
SJ64127904	84.44	82.70	81.64	S	CO	C	300	nil	32.25	1979
SJ64127905	87.81	86.05	82.77	S	VC	C	225	nil	12.17	1944
SJ64127906	87.81	85.48	81.40	F	VC	C	225	nil	15.81	1944
SJ64127907	87.81	85.88	86.15	S	VC	C	150	nil	0.00	1944
SJ64127908	87.21	85.75	86.10	S	VC	C	225	nil	0.00	1944
SJ64127909	87.48	85.39	85.54	F	VC	C	225	nil	0.00	1944
SJ64127910	88.27	85.94	85.64	F	VC	C	150	nil	103.40	1944
SJ64127911	88.27	86.22	85.92	S	VC	C	150	nil	97.17	1944
SJ64128208	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64128301	96.60	94.60	92.25	F	VC	C	150	nil	34.39	1979
SJ64128302	96.57	94.94	94.66	F	VC	C	150	nil	50.14	1979
SJ64128304	96.61	94.31	92.94	S	VC	C	225	nil	42.56	1979
SJ64128309	nil	nil	nil	F	U	U	nil	nil	0.00	1979
SJ64128310	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64128401	97.92	96.26	94.09	S	VC	C	150	nil	23.12	1979
SJ64128407	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64128502	98.41	95.47	94.03	S	VC	C	225	nil	38.72	1979
SJ64128503	98.35	94.88	94.45	F	VC	C	150	nil	115.67	1979
SJ64128504	98.11	96.75	94.21	F	VC	C	150	nil	21.17	1979
SJ64128511	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64128512	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64128513	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64128514	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64128515	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64128516	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64128604	96.27	95.27	95.15	F	VC	C	150	nil	71.67	1979
SJ64128605	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil
SJ64128606	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64128607	nil	nil	nil	S	nil	nil	nil	nil	0.00	nil
SJ64128704	96.65	94.66	nil	F	VC	C	150	nil	0.00	1979
SJ64128705	96.56	95.10	94.55	S	VC	C	150	nil	35.31	nil
SJ64128706	96.53	95.40	nil	F	VC	C	150	nil	0.00	1979
SJ64128709	96.38	95.31	94.42	S	VC	C	150	nil	22.38	1979
SJ64128710	nil	nil	93.15	F	nil	nil	nil	nil	0.00	nil
SJ64128711	96.25	94.72	94.41	S	VC	C	300	nil	135.68	1979
SJ64128713	96.70	94.81	94.67	F	VC	C	150	nil	86.00	1979
SJ64128714	96.69	94.95	94.83	F	VC	C	150	nil	111.17	1979
SJ64128715	96.25	95.13	94.96	F	VC	C	150	nil	118.94	1979
SJ64128719	nil	nil	nil	F	nil	nil	nil	nil	0.00	nil

### MATERIALS

- NONE	PE - POLYETHYLENE
AC - ASBESTOS CEMENT	PF - PITCH
BR - BRICK	PP - POLYPROPYLENE
CC - CONCRETE BOX CULVERT	PSC - PLASTIC STEEL COMPOSITE
CI - CAST IRON	PVC - POLYVINYL CHLORIDE
CO - CONCRETE	RPM - REINFORCED PLASTIC MATRIX
CSB - CONCRETE SEGMENTS (BOLTED)	SI - SPUN (GREY) IRON
CSU - CONCRETE SEGMENTS (UNBOLTED)	ST - STEEL
DI - DUCTILE IRON	U - UNKNOWN
GRC - GLASS REINFORCED CONCRETE	VC - VITRIFIED CLAY
RP - GLASS REINFORCED PLASTIC	XXX - OTHER
MAC - MASONRY IN REGULAR COURSES	
MAR - MASONRY RANDOMLY COURSED	

### SHAPE

C - CIRCULAR
E - EGG SHAPED
O - OTHER
R - RECTANGLE
S - SQUARE
T - TRAPEZOIDAL
U - UNKNOWN

### PURPOSE

C - COMBINED
E - FINAL EFFLUENT
F - FOUL
L - SLUDGE
S - SURFACE WATER

### TABULAR KEY

- Sewer pipe data refers to downstream sewer pipe.
- Where the node bifurcates (splits) X and Y indicates downstream sewer pipe.
- Gradient is stated a 1 in...



Severn Trent Water Limited  
Asset Data Management  
PO Box 5344  
Coventry  
CV3 9FT  
Telephone: 0845 601 6616

### SEWER RECORD DATA TABLE

O/S Map scale:	1:3500	This map is centred upon:
Date of Issue:	25.02.14	O / S Grid reference:
Sheet No.	10 of 11	x: 364508
		y: 312632

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 3. On 1 October 2011 most private sewers and private lateral drains in Severn Trent Water's sewerage area, which were connected to a public sewer as at 1 July 2011, transferred to the ownership of Severn Trent Water and became public sewers and public lateral drains. All other transfer takes place on 1 October 2012 (date to be confirmed). Private pumping stations, which form part of these sewers or lateral drains, will transfer to the ownership of Severn Trent Water on or before 1 October 2016. Severn Trent Water does not possess complete records of these assets. These assets may not be displayed on this Map.  
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## Sewer Node

## Sewer Pipe Data

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR LAID
SJ64128801	94.03	92.58	89.00	S	VC	C	150	nil	20.27	1979
SJ64128802	93.92	91.91	nil	F	VC	C	150	nil	0.00	1979
SJ64128803	95.74	92.87	91.91	F	VC	C	150	nil	31.96	1979
SJ64128804	96.27	93.14	92.89	F	VC	C	150	nil	41.76	1979
SJ64128805	96.07	94.42	92.63	S	VC	C	150	nil	23.33	1979
SJ64128901	89.47	87.35	85.42	F	VC	C	225	nil	21.30	1944
SJ64128908	nil	nil	87.46	F	U	U	nil	nil	0.00	1944
nil	nil	nil	nil	F	VC	nil	nil	nil	0.00	nil
nil	nil	nil	nil	F	VC	nil	nil	nil	0.00	nil

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AC	- ASBESTOS CEMENT	PF	- PITCH
BR	- BRICK	PP	- POLYPROPYLENE
CC	- CONCRETE BOX CULVERT	PSC	- PLASTIC STEEL COMPOSITE
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CO	- CONCRETE	RPM	- REINFORCED PLASTIC MATRIX
CSB	- CONCRETE SEGMENTS (BOLTED)	SI	- SPUN (GREY) IRON
CSU	- CONCRETE SEGMENTS (UNBOLTED)	ST	- STEEL
DI	- DUCTILE IRON	U	- UNKNOWN
GRC	- GLASS REINFORCED CONCRETE	VC	- VITRIFIED CLAY
RP	- GLASS REINFORCED PLASTIC	XXX	- OTHER
MAC	- MASONRY IN REGULAR COURSES		
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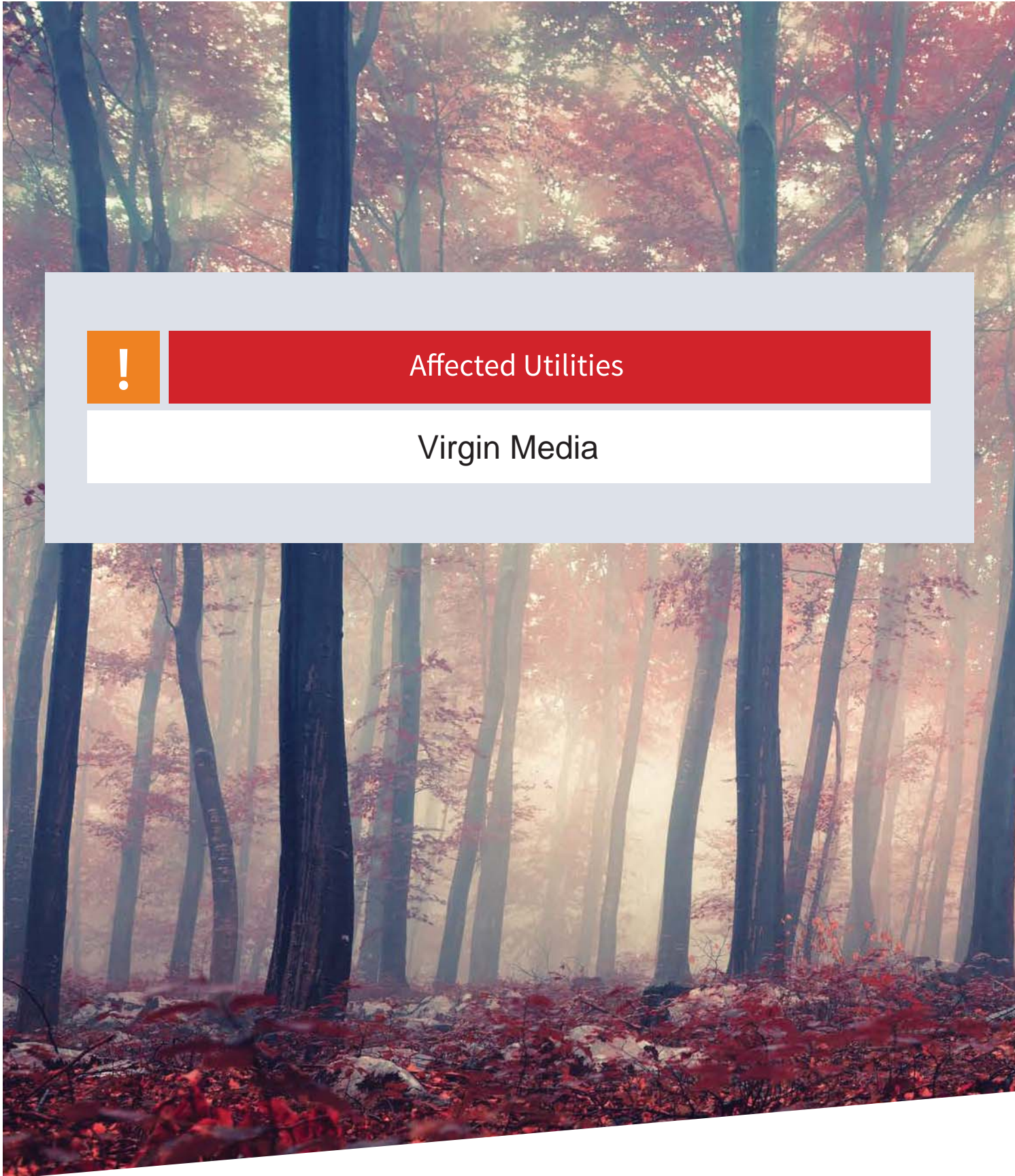
### SEWER RECORD DATA TABLE

O/S Map scale:	1:3500	This map is centred upon:
Date of Issue:	25.02.14	O / S Grid reference:
Sheet No.	11 of 11	x: 364508
		y: 312632

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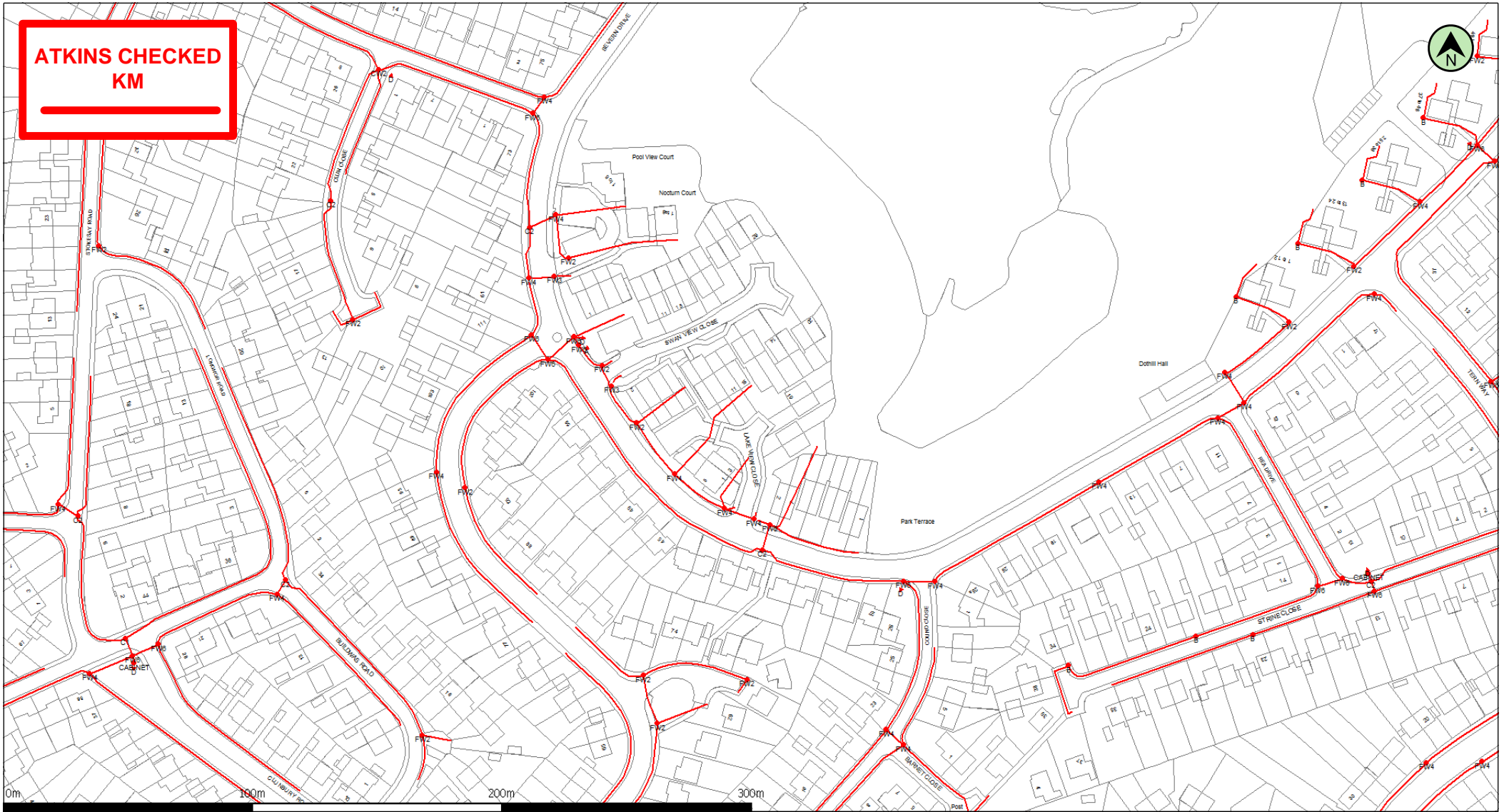
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# Utilities Report



## Affected Utilities

Virgin Media



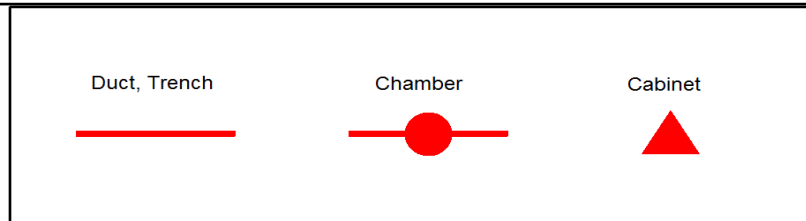
(c) Crown Copyright and database rights 2011 Ordnance Survey 100019209      Date: 17/03/14      Scale: 1:2165      Map Centre: 364447,312548      Data updated: 23/02/14      Telecoms Plan A4

Important information - please read

The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the 'Affected Postcodes.pdf', which can be downloaded from this website.

Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan.

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rachael.atkinson@virginmedia.co.uk
TF1 3GJ



# Utilities Report



## Affected Utilities

Western Power Distribution

Our Ref: 1677749      Your Ref: 29843

Monday, 24 February 2014

Chrissy Elliott  
The Hub 500 Park Avenue, Aztec West, Patchway  
Almondsbury  
Bristol  
BS32 4RZ



**Western Power Distribution,**  
Mapping Centre  
Toll End Road  
Tipton  
West Midlands  
United Kingdom  
DY4 0HH  
www.westernpower.co.uk

Dear Chrissy Elliott

Thank you for your enquiry dated Monday, 24 February 2014

I now enclose a copy of our plan showing existing Western Power Distribution (WPD) Electricity / WPD Surf Telecom apparatus in the vicinity of your proposed works. This information is given as a general guide only and its accuracy cannot be guaranteed. Please note that all WPD equipment on site should be assumed to be LIVE until WPD prove otherwise and provide you with confirmation to this effect in writing. Recent additions to our network, or service connections between the main cable and a building or street lamp may not be shown.

Map Response  
T 0121 623 9780  
F 0121 623 9223  
WPDMapResponse  
@westernpower.co.uk

Damage to underground cables and contact with overhead lines can cause severe injury or may prove fatal. If you are excavating on site in the vicinity of either WPD Electrical apparatus or WPD Surf Telecom apparatus you must comply with the requirements of the following:-

Health & Safety Executive guidance HS(G)47, Avoiding Danger from underground services.

Work taking place in the vicinity of our plant is also regulated under the:-

Electricity at Work Regulations 1989, Health and Safety Act 1974, CDM Regulations 2007.  
Safe working procedures should be defined and practiced

Please ensure that the use of mechanical excavators in the vicinity of our plant is kept to a minimum. WPD Surf Telecom ducts contain fibre cables, which are expensive to repair. Therefore, extreme care must be taken whilst working in the vicinity of these ducts, hand digging methods being used to determine their precise position.

If there are overhead lines crossing your site and your proposal involves building works which may infringe the clearance to our overhead system then you should call the relevant general enquiries number (see page 2 of this letter) for advice. Where overhead lines cross your site you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.

Western Power Distribution PLC  
South West - 02366894  
South Wales - 02366985  
East Midlands - 02366923  
West Midlands - 03600574

Where diversions to WPD apparatus are needed to allow change to occur on site, the cost of these alterations may be charged to the persons responsible for the works.

If you require advice in connection with your proposals please contact the relevant general enquiries number (see page 2 of this letter)

Registered in  
England and Wales

Following consultation the local Western Power Distribution team will where necessary prepare detailed proposals and provide a quotation for any necessary alterations and/or development of our equipment on the site.

Registered Office:  
Avonbank  
Feeder Road  
Bristol  
BS2 0TB

Yours sincerely  
WPD Map Response Team

## Contact Us

You can contact us 24 hours a day, 7 days a week, 365 days a year with any power supply issues

	Landline users	Mobile user*
East Midlands	0800 056 8090	0330 123 5009
West Midlands	0800 328 1111	0330 123 5008
South Wales	0800 052 0400	0330 123 5002
South West	0800 365 900	0330 123 5001

\*calls to 0330 numbers will cost no more than a local rate number from a landline or mobile. If you get inclusive minutes in your mobile phone package, calls to 0330 numbers are included

## Mapping Enquiries

If you have an enquiry relating to this letter or the attached map plan, please contact us using the following information:

Telephone	0121 623 9780
Fax	0121 623 9223
Email	WPDMapResponse@westernpower.co.uk

## General Enquiries

If you have a general enquiry, please call us on the following telephone numbers:

Midlands	0845 724 0240
South Wales	0845 601 3341
South West	0845 601 2989



## Steps to help keep you safe

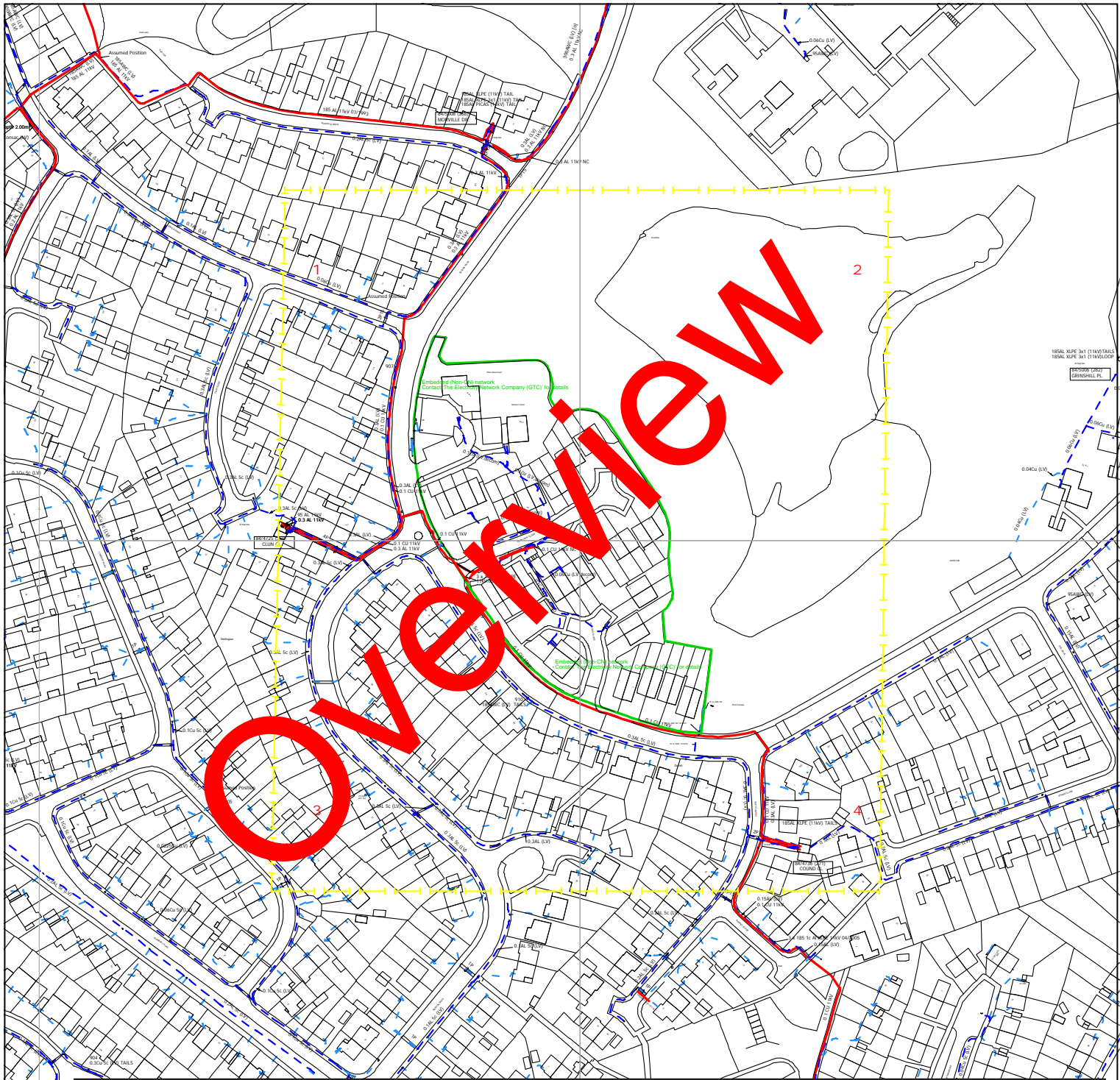
- **If you are working within 10 metres of our 33kV, 66kV, 132kV underground electricity cables or within 10 metres of an overhead electricity line you should call the relevant General Enquiries for free safety advice.**

**Safety Documents** – please download our informative safety documents to help ensure that you, your staff and the public are kept safe whilst working in the vicinity of electricity.

<http://www.westernpower.co.uk/Health-and-Safety/Public-Safety>

- **Make sure you have up to date plans** - remember that recent additions to our network or service connections between the main cable and a building or street lamp may not be shown.
- **Look for signs of service cables** - an electricity meter box or nearby streetlamp may give you an indication that service cables are present in your area of work.
- **Non WPD Network** - electricity cables, lines and equipment owned by others may also be present in addition to WPD network. They are unlikely to be shown on our plans.
- **Use a cable locator** - trace electricity cables and mark the position of them using paint or other waterproof marking on the ground.
- **Hand dig trial holes** - to confirm the position of cables in close proximity to your area of your work and use spades and shovels rather than picks, pins or forks.
- **Have an emergency plan** - so that everyone working on site understands what to do in the event of an underground electricity cable being damaged or contact being made with an overhead electricity line.
- **If you are working within 10 metres** of an overhead electricity line then it may be necessary for you to erect warning signs and markers, or height restriction goal posts. Ensure that you comply with the requirements of Health & Safety Executive guidance laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- **If you are erecting a structure** that could allow anyone standing on it, or its access device (ladder, scaffold, MEWP), to come within 3m of any overhead electric line then **you must inform us**. This is your duty and a legal requirement under the Electricity Safety, Quality & Continuity Regulations 2002.
- **If you cannot work safely** around the underground electricity cable or overhead electricity line, then you may need to get it moved to allow your works to go ahead. Call the general enquiry numbers above for guidance.
- **It is possible that cables or pipes may be embedded in concrete** - electricity cables embedded in concrete **MUST** be made 'dead' by Western Power Distribution or the cable owner before the concrete is broken out. Alternatively, another safe way of working should be agreed.

**Cables are sometimes covered by tiles or a marker tape** - these can be concrete, polythene or earthenware and are a useful early warning of the presence of cables; you should avoid disturbing any tiles or tape to expose the cable. Not all cables have these warning indicators.



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**WESTERN POWER DISTRIBUTION**

*Serving the Midlands, South West and Wales*

**Contact Us**

**Mapping Enquiries:**

All areas 0121 623 9780

**General Enquiries:**

Midlands 0845 724 0240

South Wales 0845 601 3341

South West 0845 601 2989

Date Requested: 24/02/2014

Job Reference: 1677749

Site Location: 364440 312574

Requested by:

Miss Chrissy Elliott

Your Scheme/Reference:

29843

Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ○ HV (132kV)	---	—S—S—	—P—P—
●	★	---	—E—	○ Pole Mounted Transformer □ Ground Mounted Transformer

\* Advice should be sought from the Western Power Distribution General Enquiries team for any work that is to take place in proximity to 132kV underground cables and 132kV overhead lines

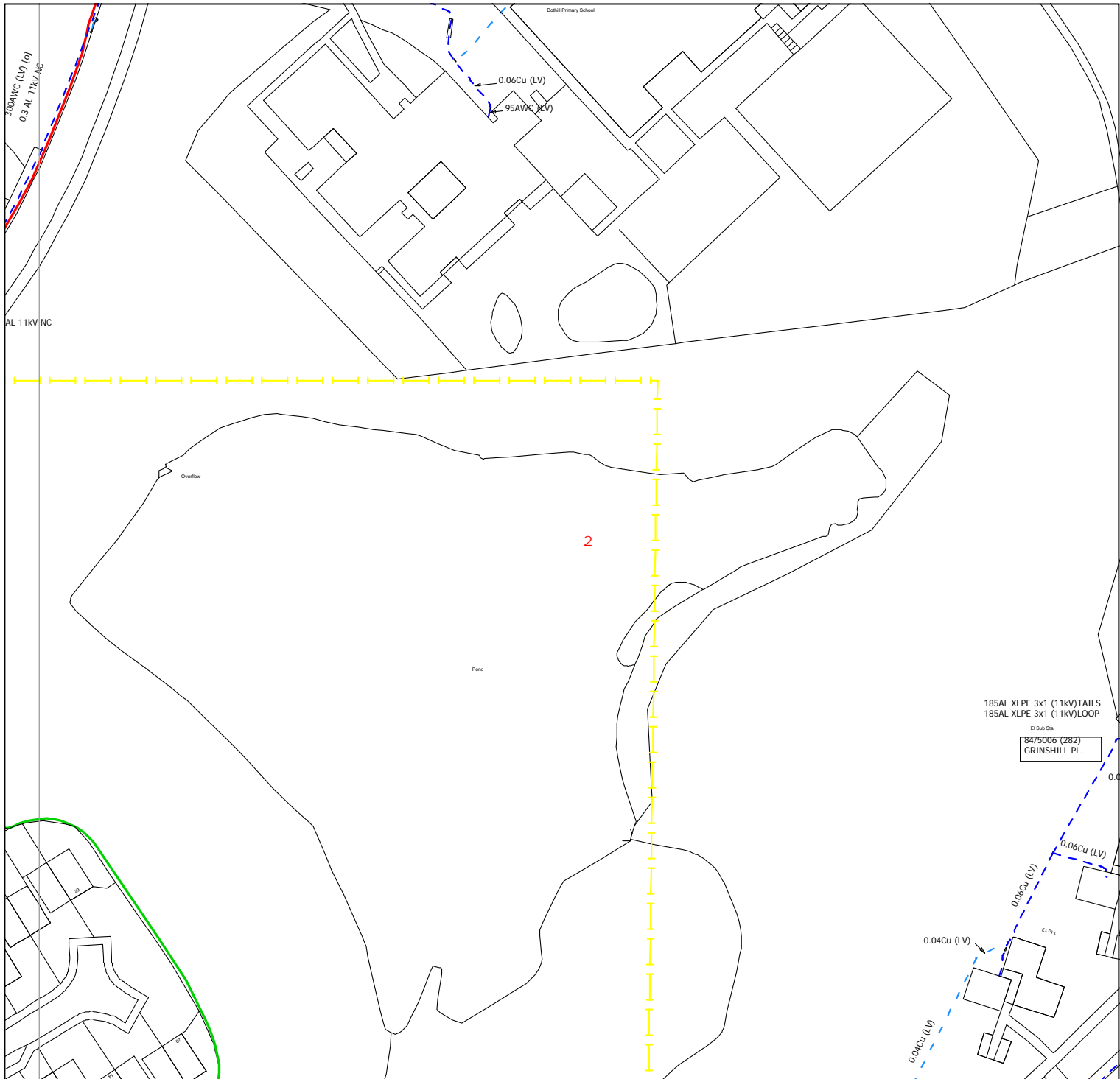
**IMPORTANT NOTICES**

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- You should always verify exact locations of cables using a cable locator and by careful use of hand tools in accordance with HSE guidance note HSG47.
- When working within 10m of any overhead electric line you should follow the requirements of HSE Guidance Note GS6.
- For further advice on working near our electricity cables or lines, call our General Enquiries number.

**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA**  
**East Mids 0800 056 8090 West Mids 0800 328 1111 South Wales 0800 052 0400 South West 0800 365 900**

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Serving the Midlands, South West and Wales

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All areas 0121 623 9780

**General Enquiries:**

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South Wales 0845 601 3341

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Date Requested: 24/02/2014

Job Reference: 1677749

Site Location: 364440 312574

Requested by:

Miss Chrissy Elliott

Your Scheme/Reference:

29843

Approx. Scales:

1:1250 Area or Circle dig site

1:500 Line dig site

Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV	---	—S—S—	—P—P—
Site Location Line/Area	○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ○ HV (132kV)	---	⎓ PME Earth ⎓ Underground Earth	○ Pole Mounted Transformer □ Ground Mounted Transformer
⎓	★	★		

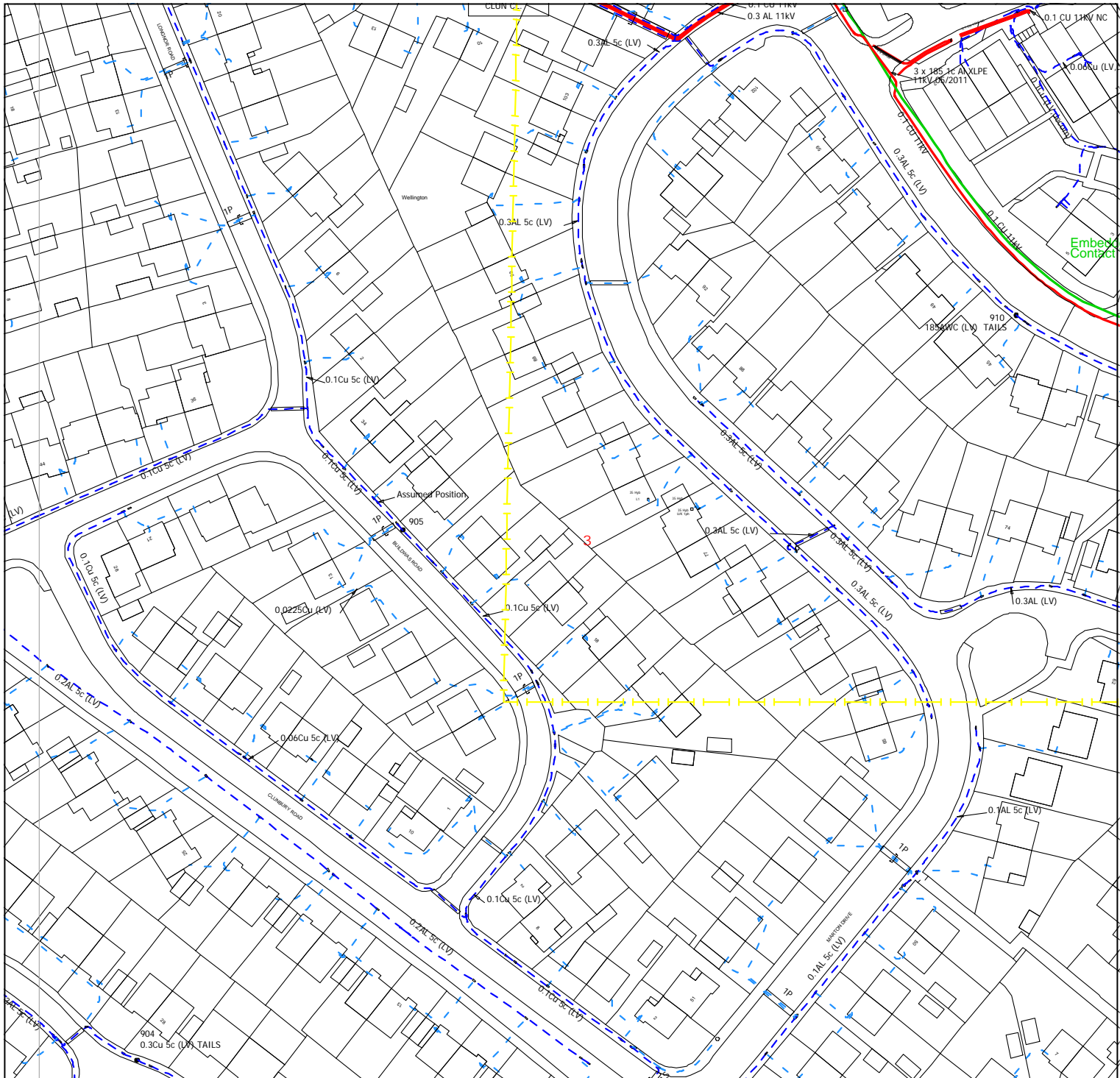
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Approx. Scales:  
 1:1250 Area or Circle dig site  
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Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pilot Cables
●	○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ○ HV (132kV)	— — — — — — — — — — — — — — — — — — — —	— S — S — <b>PME Earth</b> <b>Underground Earth</b>	— P — P — <b>Pole Mounted Transformer</b> <b>Ground Mounted Transformer</b>

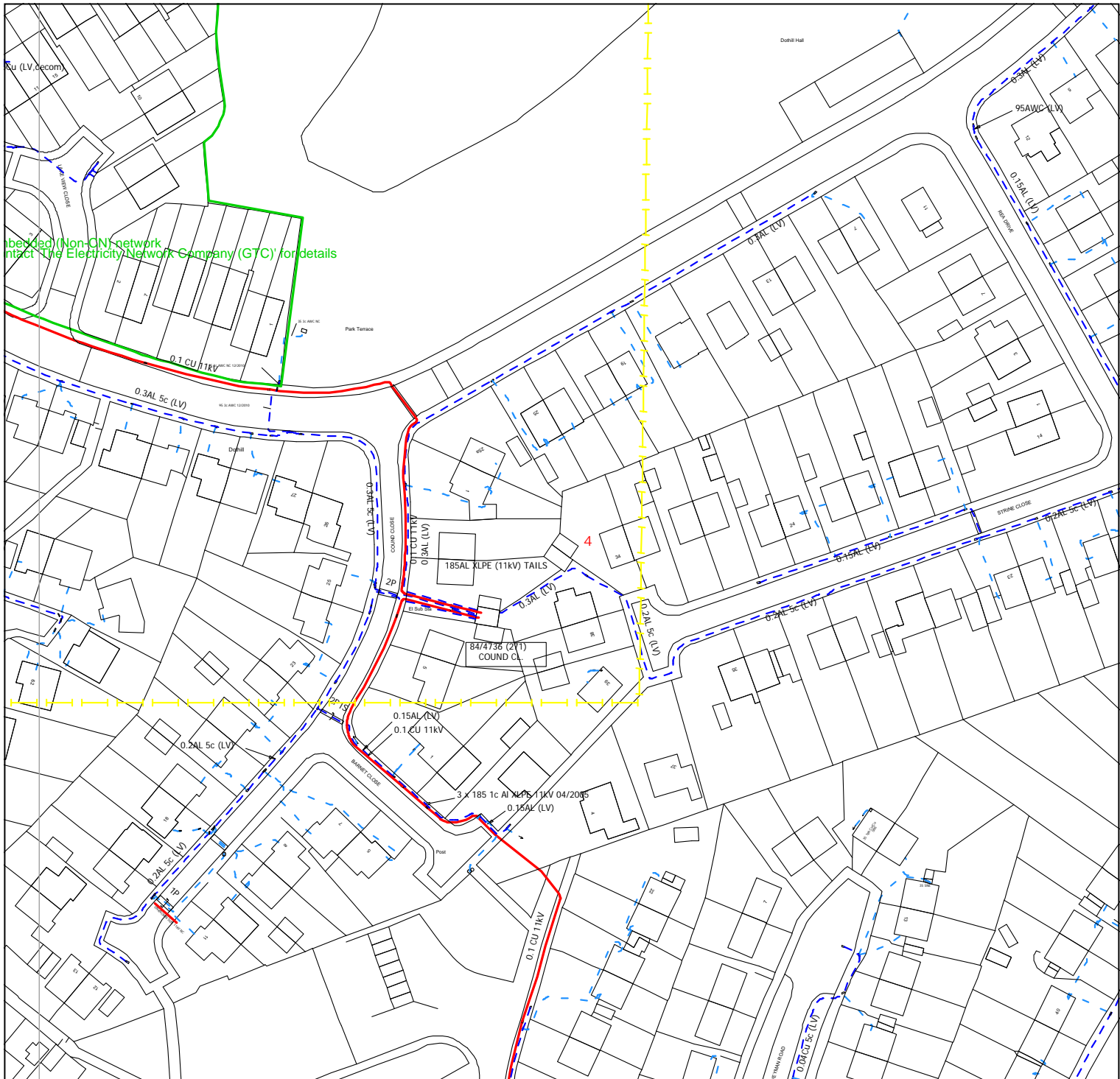
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Link Box	Overhead Line	Underground Cable	SURF Telecoms	Pole Cables
●	○ PL ○ Service ○ LV ○ HV (11kV) ○ HV (33kV) ○ HV (66kV) ○ HV (132kV)	--- --- --- --- ---	—S—S— <b>PME Earth</b>  <b>Underground Earth</b>	—P—P— <b>Pole Mounted Transformer</b>  <b>Ground Mounted Transformer</b>

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- For further advice on working near our electricity cables or lines, call our General Enquiries number.

**Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA**  
**East Mids 0800 056 8090 West Mids 0800 328 1111 South Wales 0800 052 0400 South West 0800 365 900**

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Date Requested: 24/02/2014  
 Job Reference: 1677749  
 Site Location: 364440 312574  
 Requested by:  
 Miss Chrissy Elliott  
 Your Scheme/Reference:  
 29843

Approx. Scales:  
 1:1250 Area or Circle dig site  
 1:500 Line dig site

Our emergency numbers are:

East Midlands

EMERGENCY

0800 056 8090

West Midlands

EMERGENCY

0800 328 1111

South Wales

EMERGENCY

0800 052 0400

South West

EMERGENCY

0800 365 900



Avoidance of Danger from  
Electricity Overhead Lines  
and Underground Cables



## Avoidance of Danger from Electricity Overhead Lines and Underground Cables

### Introduction

In the UK on average, 20 people are killed and 400 people are injured as a result of coming into contact (or close proximity) with electricity overhead lines and underground cables.

Although electric shock is the first thing that people associate with coming into contact with our network, those who have witnessed the effects of damage to our system are shocked by the amounts of heat, light and noise that are the result of an electrical flashover.

In the Midlands, South West and South Wales, Western Power Distribution (WPD) have also had to attend to incidents where people have accidentally made contact with one of our live electricity overhead lines or damaged an underground cable.

A significant number of these accidents occurred whilst people were working in the vicinity of overhead and underground electrical apparatus and this booklet has been produced to provide general guidance on how you and your employees can avoid becoming one of these statistics.

## PLANNING YOUR WORK.

It makes sense to consider your safety while in the vicinity of our equipment as early in your planning process as possible.

One of the first things you should do whenever you are planning your work is to check whether there is any of our equipment in the immediate vicinity. You should do this whether your work is taking place on public (e.g. highways and footpaths) or on private land.

For instance, take a good look around your site to see if there are any visible overhead lines. You should also bear in mind that we have a very extensive network of underground cables, and we are always happy to supply a plan from our Map Response Team who can be contacted via the following;

Tel: 0121 623 9780

Fax: 0121 623 9223

[WPDMapResponse@westernpower.co.uk](mailto:WPDMapResponse@westernpower.co.uk)

An online mapping service is available at  
[www.westernpower.co.uk/locationplans](http://www.westernpower.co.uk/locationplans)

It is always safer to assume that there are underground cables present in the ground until you have proven otherwise.



## WORKING IN THE VICINITY OF UNDERGROUND CABLES

Having obtained copies of our network maps, it is important to recognise that in most cases there will be no surface indication of the presence of our underground cables. We therefore advise that you take the following actions;

- Make sure that you have up-to-date copies of our cable record plans ON SITE - not back in the office.
- Don't assume that these plans are to scale if they have been faxed or copied.
- Make sure that a competent person using a Cable Avoidance Tool (CAT) locates all of the cables shown on these plans.
- Mark the locations of cables on the ground surface with waterproof road paint or other permanent marker.
- Always assume that our cables are live unless we have informed you, in writing, otherwise.
- By hand, dig trial holes to locate the exact position of all cables. Always use a spade or shovel – never use a pick, fork or power tool – push the spade or shovel into the ground applying foot pressure.
- Look out for ducts, marker tape or tiles but do not rely on these. Even if a cable was originally laid in a duct or with a marker tape, these may have been removed during other excavations at a later date along all or part of the route.
- Brief all people working in the vicinity of the presence and location of all underground cables.

**UNDER NO CIRCUMSTANCES SHOULD YOU ATTEMPT TO WORK ON, OR INTERFERE WITH, ANY OF OUR UNDERGROUND CABLES.** The only people qualified to work on our cables are our operatives who have each been specifically authorised, in writing, to do so.

## Please also be aware that;

- Cable record plans are not guaranteed to be completely accurate. Kerb Lines, roads and buildings may have been moved or altered since the cables were laid.
- Cables should ordinarily be at least 450mm deep but don't assume this to be the case where you are working – ground levels could have changed.
- Not all service cables are shown on record plans, so look for cables running down poles and bear in mind that all buildings, street lights and road furniture are likely to have cables running to them. Cables feeding street furniture may be relatively shallow near to the furniture.
- Cables do not run in straight lines. They often “snake” through the ground avoiding surface and buried obstacles that may not be visible to you.
- Cables are flexible and can change direction and depth abruptly – for this reason never use mechanical excavators within 0.5m of any underground electricity cable even if you have located it with trial holes.
- No attempt should be made to break out concrete surrounding a cable. Please contact us immediately on our general enquiries number and we will discuss the options for safe working which may include making the cable dead or you moving your work site if possible. If we need to make the cable dead we may need to provide our customers with two weeks notice of the power interruption.
- Our cables and joints are not designed to act as steps or to be left unsupported. If you remove support from any cable, you will need to support it using temporary hangers at not more than 0.5m intervals.
- When backfilling, please consolidate the ground under the cables, cover the cable with soil free of stones or with stone dust and replace any cable marker tiles, ducts and tape.

**IF YOU DAMAGE AN UNDERGROUND CABLE,** you must immediately clear the area of personnel, because the cable could still be live, or become live again.

If a machine is still in contact with the cable, instruct the driver to JUMP clear. Do not touch any part of the machine.

Please contact us on our emergency numbers immediately and tell us what has happened. Please be ready to provide us with a contact telephone number and an accurate location or set of directions – this will help us in getting our staff to site quickly to minimise any danger and lessen the disruption to your work.

Our emergency numbers are:

East Midlands 0800 056 8090

**EMERGENCY**

West Midlands 0800 328 1111

**EMERGENCY**

South Wales 0800 052 0400

**EMERGENCY**

South West 0800 365 900

**EMERGENCY**

Please report any damage to a cable, however superficial it might seem. The cable may not fail at the time of damage, but it could fail later, causing danger to our staff and other contractors, disruption to our customers' supplies, and also – if we trace the damage back to you – a very much larger repair bill.

## WORKING IN THE VICINITY OF OVERHEAD LINES

**UNDER NO CIRCUMSTANCES SHOULD YOU ATTEMPT TO WORK ON, OR INTERFERE WITH ANY OF OUR OVERHEAD LINE EQUIPMENT OR SERVICE WIRES.** The only people qualified to work on this equipment are our operatives who have each been specifically trained and authorised in writing, to do so.

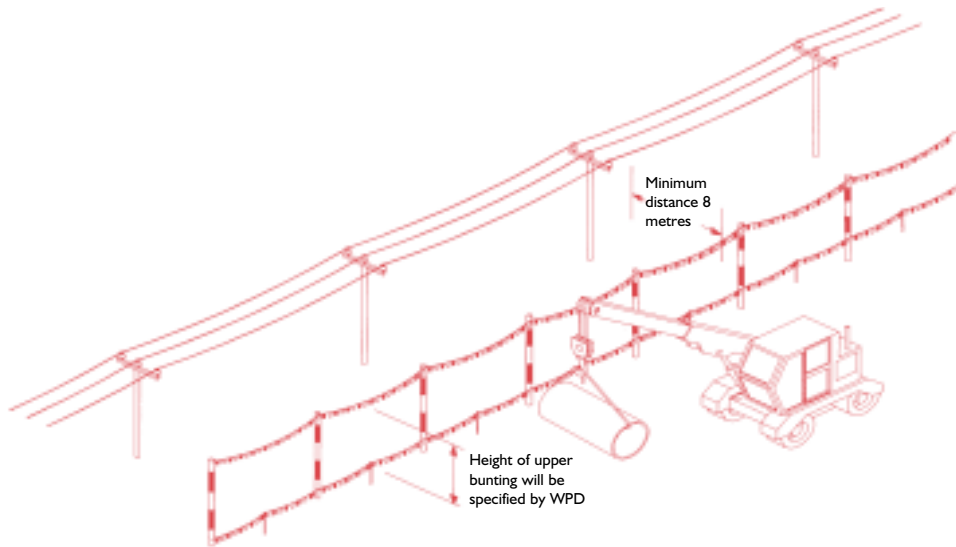
Overhead lines have the advantage that, unlike underground cables, they can easily be seen.

- Always assume that our lines are live unless we have informed you otherwise in writing.
- We will be able to advise you about the type and voltage of the lines in question and provide you with information about the clearances that you must adhere to during your work.
- If you are in any doubt about whether the lines in question are power or telephone (this is a very common mistake) – please ask us.
- In some circumstances, we may be able to temporarily shroud low voltage overhead lines and services running to buildings if you need to work in the vicinity e.g. for scaffolding erection, fascia repairs and painting work on domestic properties. We don't normally charge for the shrouding of overhead lines, but please give us as much notice as possible.
- If you think that you will be working close to our overhead lines and they need shrouding – please don't start work until we have agreed what needs to be done and all safety precautions are in place.
- Please note that it is not technically possible to shroud high voltage lines, so if you cannot avoid working near to our high voltage lines, contact us and we will be happy to meet you to discuss safe alternatives.

7

■ If it is decided that work can go ahead in the vicinity of our lines, and there is a risk of you infringing the safety clearances from the lines, you have a responsibility to erect safety barriers to segregate your works from the area around the lines. The detailed requirements for these barriers are provided in the HSE document GS6 'Avoidance of Danger from Overhead Lines' and as a summary they should consist of;

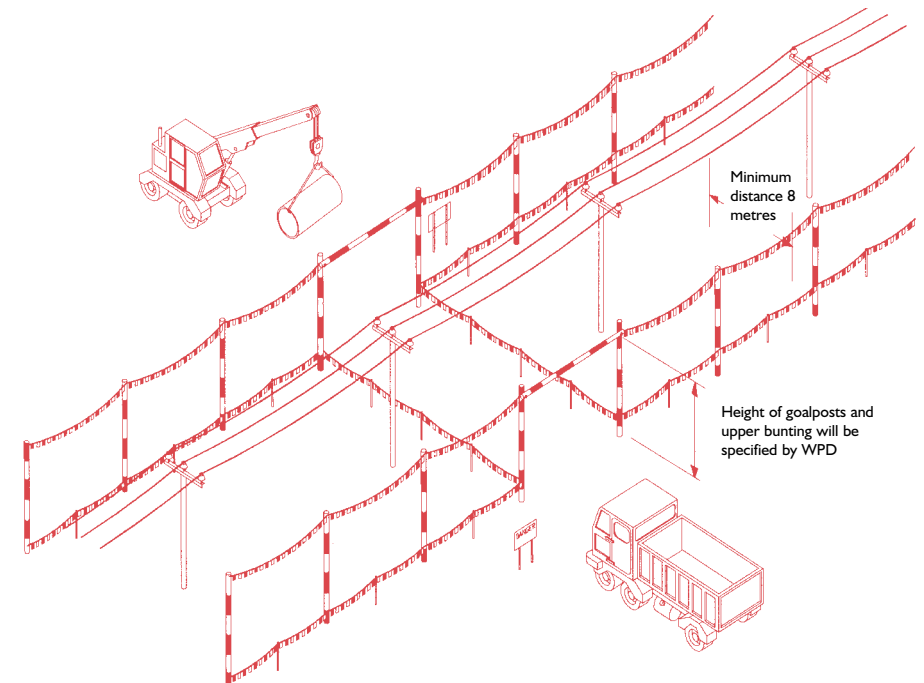
■ Red and white painted posts erected at 6m intervals, with coloured bunting stretched between their tops, supplemented by low level bunting erected at 1m above ground level, supported at 3m intervals on red and white painted posts. This is shown below.



- We are able to advise you on the height of the barriers and any additional clearances necessary if you are using large plant on your site.
- Any bunting, ropes and lanyards used should be made from an insulating material.
- These barriers should be erected parallel to the line at a minimum distance of 8m horizontally from the outermost conductor of the line.

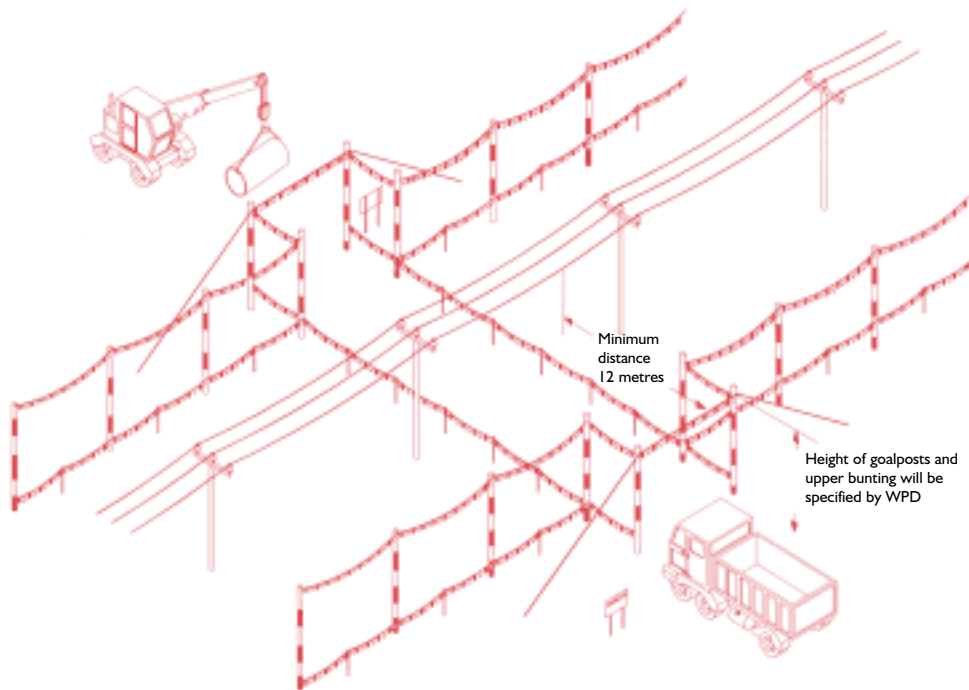
8

- The supports may be supported by rubble or concrete filled barrels or buried directly in the ground.
- Danger Notices should be fixed to all of your high level supports.
- The ground enclosed within these barriers is best regarded as “dead ground” in which all foot and vehicular traffic is forbidden, in all circumstances, for the duration of your work.
- Where it is necessary for foot and vehicular traffic to pass under the line, you will need to form a marked access way between the barriers as shown below.



- This access way should comprise of bunting erected 1m above ground, supplemented by high level “goal-posts” erected at either end.
- The goal post cross bars should be rigid, made of insulating material and positioned in a location and at a height specified by us.

- The access route should be as narrow as possible and should not normally exceed 10m in width.
- If it is necessary to make the access route wider than this, you may find it impractical to use rigid cross bars, so you may use a tensioned rope and bunting instead. If you use rope and bunting as a cross bar, you should move the entrance to the access route out to a minimum distance of 12m from the outermost conductor of the line. This is to allow for any stretching of the rope if pulled by your plant.



- If you decide to use steel wire rope to support the barrier, this must be effectively connected to earth at both ends.
- You should also install Danger Notices at all probable directions of approach and clearly display the cross bar height.
- If you are working at night, or in conditions of poor visibility, you should ensure the area is well lit and that the lines are clearly visible.
- Whatever measures you take, you should ensure that everyone working in the vicinity of lines is briefed about the risks and what safety measures are in place. Do not permit anyone to carry long objects, especially scaffold poles, ladders and irrigation pipes in the vicinity of lines.
- You should ensure that all shrouding, barriers and signs are regularly inspected and maintained so that they remain effective.
- Overhead power lines are not normally insulated and electricity at High Voltages may jump, so a dangerous situation can arise just from a close approach.
- Cranes and Excavators working near overhead lines are at increased risk because of the possibility of the jib/arm slewing or being raised into the line, or the load swinging into the line. You may therefore also need to fit plant and vehicles with restricting chains etc. to physically restrain their operation – we can advise on this if you wish.
- If you are planning to carry out tree cutting or arboriculture work in the vicinity of our overhead lines, you need to be aware that this is a complex, high risk activity and we recommend that you employ a competent tree surgeon, who complies with all of the requirements of HSE leaflet AFAG804: 'Electricity at Work: Forestry and Arboriculture'.

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

The operator of a machine that is in contact with an overhead line should:

**if the machine is still operable and the operator is still in the cab:**

provided that you do not risk breaking the line or dragging it to the ground, immediately lower the raised parts of the machine USING ONLY THE CONTROLS IN THE CAB and/or drive the vehicle clear of the line.

contact us immediately on our emergency number so that we can check the lines.

**if the machine is not operable, cannot be driven clear of the line or there is a risk that doing so will break the line or drag it to the ground:**

stay in the cab.

contact your site manager or us immediately on our emergency number by radio or mobile phone or as soon as possible by any other method.

instruct everyone outside the vehicle not to approach it.

do not exit the cab until given confirmation BY WPD PERSONNEL that it is safe to do so.

**if the machine is inoperable or cannot be driven free and there is risk of fire or other immediate hazard:**

JUMP clear of the vehicle, avoiding simultaneous contact with any part of the machine and the ground.

try to land with your feet as close together as possible.

where possible, continue to move away from the vehicle using “bunny hops” with your feet together until at least 15m from the vehicle.

instruct other people in the vicinity not to approach the vehicle.

contact us immediately on our emergency number.

do not return to the vehicle until given confirmation BY WPD PERSONNEL that it is safe to do so.

Whatever the circumstances please contact us on our emergency numbers immediately and tell us what has happened. Please be ready to provide us with a contact telephone number and an accurate location or set of directions – this will help us in getting our staff to site quickly to minimise any danger and lessen any disruption to your work.

## Our emergency numbers are:

East Midlands 0800 056 8090

EMERGENCY

West Midlands 0800 328 1111

EMERGENCY

South Wales 0800 052 0400

EMERGENCY

South West 0800 365 900

EMERGENCY

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

## MORE INFORMATION

For your information, we are legally obliged to report all contact with our system to the Department of Trade and Industry, and, if you are an employer, you may be obliged to report incidents involving your staff or contractors to the Health & Safety Executive. Even if no one is hurt, you could be prosecuted for failing to report such an incident.

More detailed general information on this subject is available in the following publications from the Health and Safety Executive (HSE);

HSG(47) – Avoiding Danger from Underground Services

GS6 – Avoidance of Danger from Overhead Lines

AFAG804 - Electricity at Work: Forestry and Arboriculture

If you require more site-specific information relating to our equipment at your location please contact us on our general enquiries numbers.

Our general enquiries numbers are;

East/West Midlands      0845 724 0240

General Enquiries

South Wales              0845 601 3341

General Enquiries

South West              0845 601 2989

General Enquiries

FINALLY...

Please, always remember that electricity cables and lines can be very dangerous – the general rule is **STAY AWAY** and stay safe.

## NOTES



This booklet is issued by the Safety Team

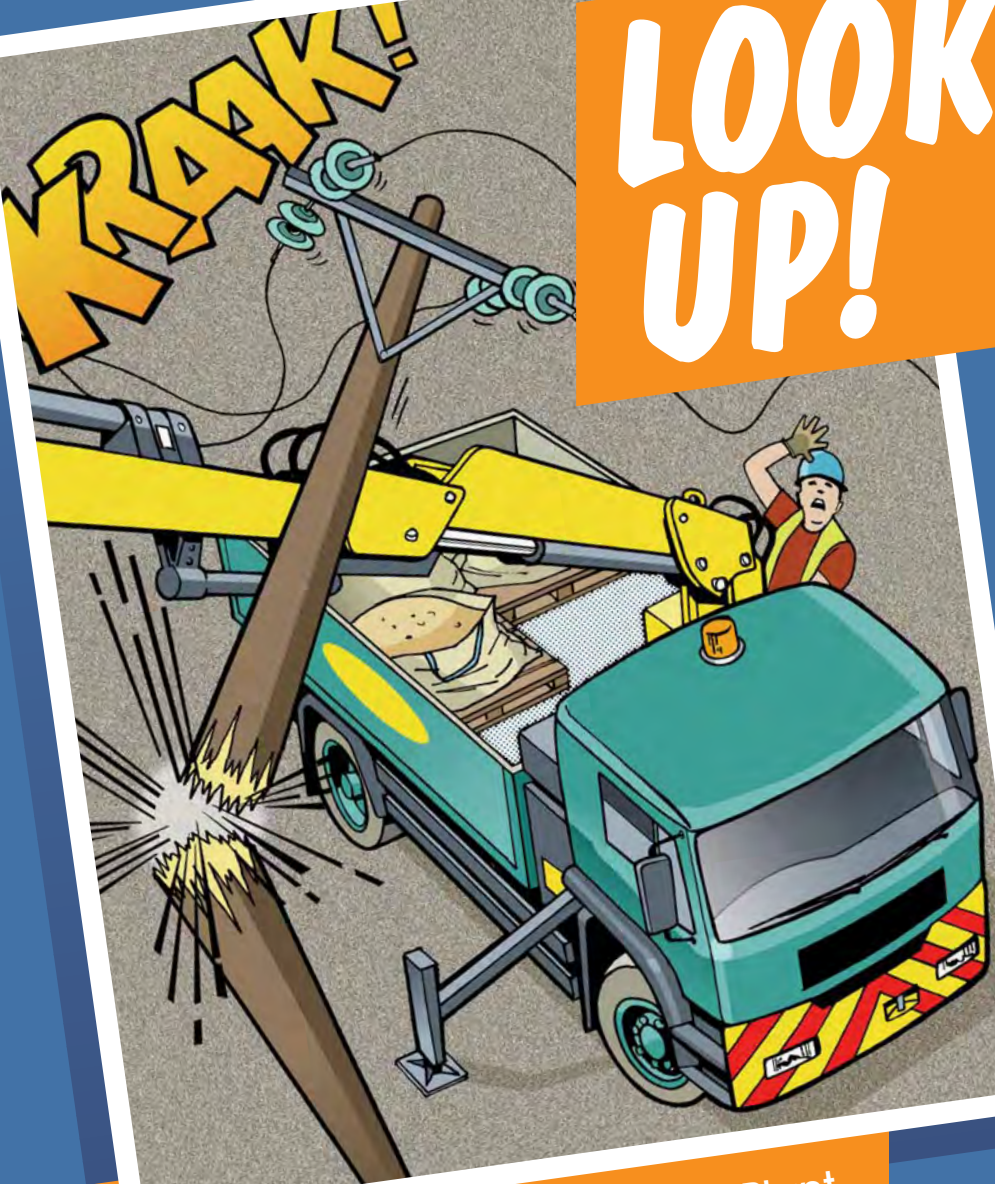
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2012, 3rd issue

# LOOK OUT.

# LOOK UP!



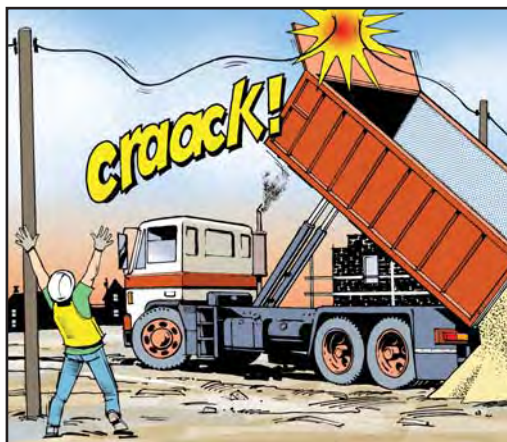
A Guide to the Safe Use of Mechanical Plant  
in the Vicinity of Electricity Overhead Lines

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

## Introduction

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

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



## 1 BEFORE STARTING WORK

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

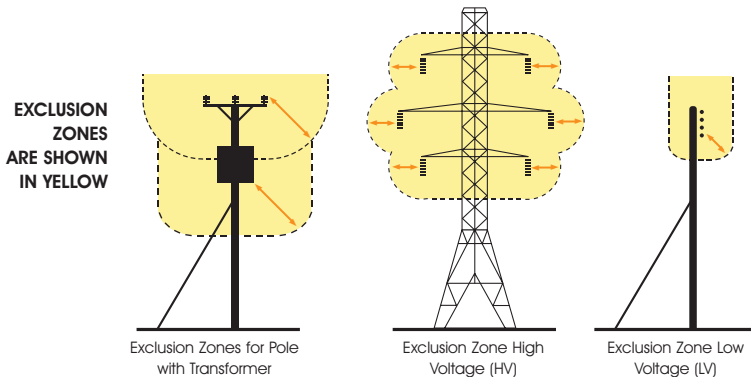
### **STOP AND LOOK UP!**

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

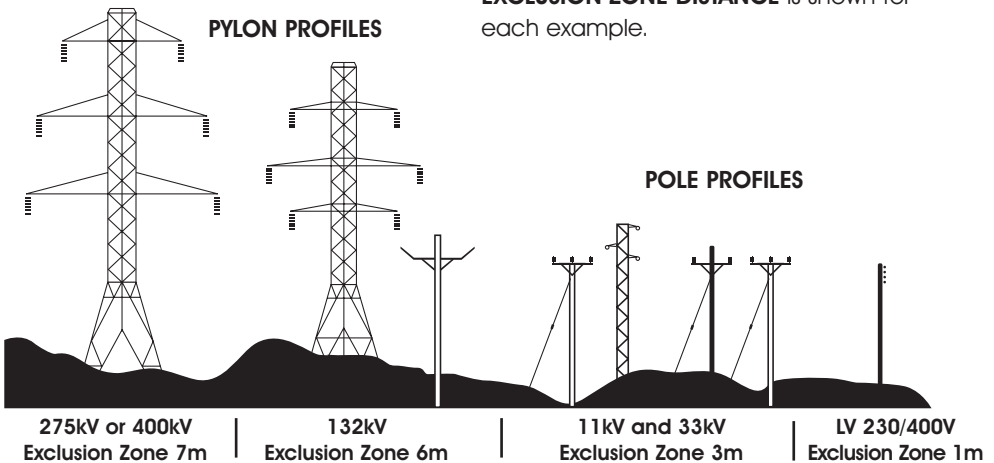


## 2 EXCLUSION ZONES

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



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

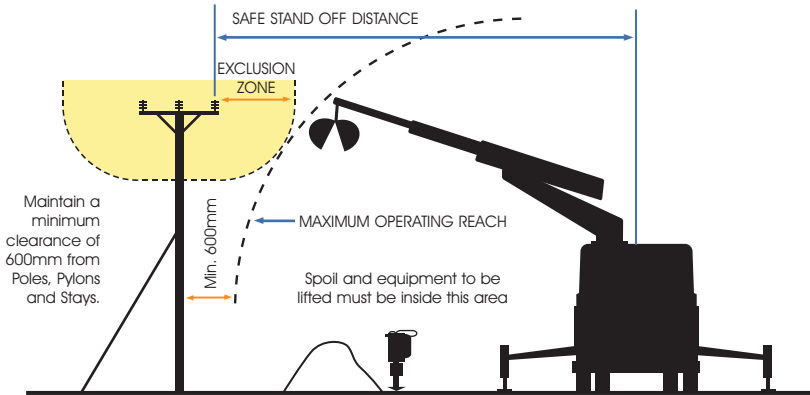


- Please note that these are absolute minimum distances that should under no circumstances be infringed. **If you do – it could prove fatal.**

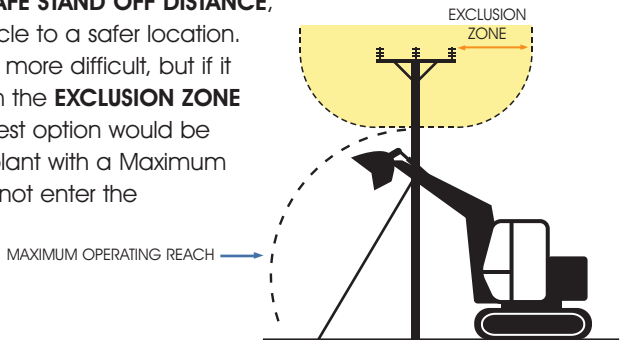
- As well as staying away from the lines or equipment, you should also stay at least 600mm away from any part of poles, pylons and stay wires.
- Please remember that is for guidance only, and if you are in any doubt, please call us for advice before setting up your plant or starting work.

### 3 STAND OFF DISTANCES

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



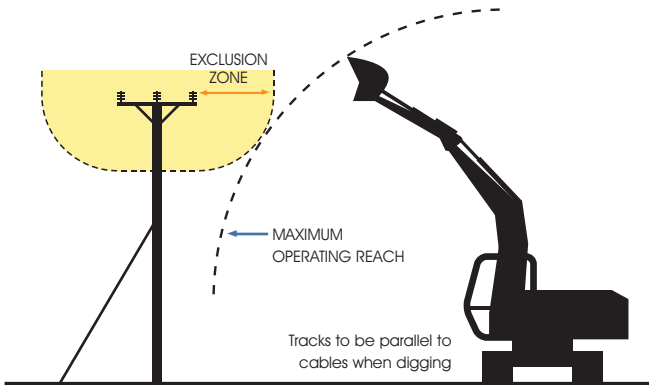
- If you position your vehicle outside of the **SAFE STAND OFF DISTANCE**, there is no risk of accidental contact with the lines and no danger of electricity jumping from the line to your vehicle.
- If you cannot achieve a **SAFE STAND OFF DISTANCE**, consider moving your vehicle to a safer location.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



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

Please seek advice from the plant manufacturer for more information on choices available for your particular item of plant.

- If you are using a mechanical excavator to dig parallel to the line, it is good practice to position the excavator with the tracks or wheels parallel to the line, so as you move along the excavation the **SAFE STAND OFF DISTANCE** is easily maintained.



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

## 4 EMERGENCY PROCEDURES

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

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

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

● **If the machine is not operable or cannot be driven clear of the line:**

- stay in the cab.
- contact your site manager or us immediately by radio or mobile phone or as soon as possible by any other method.
- instruct everyone outside the vehicle not to approach it.
- do not exit the cab until given confirmation BY WPD PERSONNEL that it is safe to do so.

● **If the machine is inoperable or cannot be driven free and there is risk of fire or other immediate hazard:**

- jump clear of the vehicle, avoiding simultaneous contact with any part of the machine and the ground.
- try to land with your feet as close together as possible.
- where possible, continue to move away from the vehicle using “bunny hops” with your feet together until at least 15m from the vehicle.
- instruct other people in the vicinity not to approach the vehicle.
- do not return to the vehicle until given confirmation BY WPD PERSONNEL that it is safe to do so.

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

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

**OUR EMERGENCY NUMBERS ARE:**

**East Midlands: 0800 056 8090**

**West Midlands: 0800 328 1111**

**South Wales: 0800 052 0400**

**South West: 0800 365 900**

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

## 5 MORE INFORMATION

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

## 6 FURTHER READING

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

More detailed general information on this subject is available in the following publications from the Health and Safety Executive (HSE):

**GS6 – Avoidance of Danger from Overhead Lines.**

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

**AFAG 804 – Electricity at Work: Forestry and Arboriculture.**

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

**East/West Midlands: 0845 724 0240**

**South Wales: 0845 601 3341**

**South West: 0845 601 2989**

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

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

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

Our general enquiry numbers are:

<b>East/West Midlands:</b>	<b>0845 724 0240</b>
<b>South Wales:</b>	<b>0845 601 3341</b>
<b>South West:</b>	<b>0845 601 2989</b>

Our emergency numbers are:

<b>East Midlands:</b>	<b>0800 056 8090</b>
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<b>South West:</b>	<b>0800 365 900</b>

This booklet is issued by the Safety Team: [wpsafetyhelpline@westernpower.co.uk](mailto:wpsafetyhelpline@westernpower.co.uk)



*Serving the Midlands, South West and Wales*

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Western Power Distribution (West Midlands) plc. Registered in England and Wales No. 3600574  
Western Power Distribution (South Wales) plc. Registered in England and Wales No. 2366985  
Western Power Distribution (South West) plc. Registered in England and Wales No. 2366894  
Registered Office: Avonbank, Feeder Road, Bristol BS2 0TB

# Utilities Report



## Not Affected Utilities

Some Utility Companies have replied to confirm they would not be affected by work on, or close to, the search area. Their responses are enclosed in the following pages for your records.

## Maile, Kayleigh

---

**From:** NRSWA [NRSWA@bskyb.com]  
**Sent:** 24 February 2014 15:24  
**To:** Maile, Kayleigh  
**Subject:** BSKYB Telecommunications Services Ltd Plant Enquiry - PEN-14-02-2369 : ATKINS - 29843

**Attention:** Kayleigh Maile - ATKINS

Dear Sir/Madam,

**RE: Site at Dot Hill, Severn Drive, Wellington, Telford, TF1 3GJ**

Thank you for your enquiry.

Please be advised that BSKYB Telecommunications Services Ltd will not be affected by these works.

Best endeavours have been made to ensure accuracy, however if you require further information, please contact us.

If you would like to submit your plant enquiries electronically, please send them to [nrswa@bskyb.com](mailto:nrswa@bskyb.com)

Please be advised that our fax number has changed to 0207 032 3252.

Regards

### **NRSWA Department**

Network Infrastructure and Planning  
BSKYB Telecommunications Services Ltd  
70 Buckingham Avenue  
SLOUGH  
SL1 4PN

T +44 (0) 207 032 3234/250

F +44 (0) 207 032 3252

E [nrswa@bskyb.com](mailto:nrswa@bskyb.com)

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## Maile, Kayleigh

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**From:** Plant enquiries [plantenquiries@catelecomuk.com]  
**Sent:** 04 March 2014 13:41  
**To:** Maile, Kayleigh  
**Subject:** RE: Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

Dear Sir/Madam,

Thank you for your enquiry for the above reference.

We can confirm that Colt Technology Services do not have apparatus near the above location.

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

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

Kind regards,

## Plant Enquiry Team



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---

**From:** Maile, Kayleigh [mailto:Kayleigh.Maile@atkinsglobal.com]  
**Sent:** 24 February 2014 15:19  
**To:** 'Easynet'; 'plantenquiries@catelecomuk.com'; 'plantenquiries@cityfibreholdings.com'; plantenquiries@energetics-uk.com; Unit Enquiries -; genesys.noc@fluor.com; plantenquiries@instalcom.co.uk; 'interoute.enquiries@plancast.co.uk'; 'McNic'; 'OPBuriedServicesEnquiries@networkrail.co.uk'; Telenttelia.Plantenquiries@telent.com; osp-team@uk.verizonbusiness.com; National Plant Enquiry's; telford@telford.gov.uk; highways@telford.gov.uk  
**Subject:** Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

To whom it may concern,

**McNicholas – Please reply for KPN & TATA**

## Maile, Kayleigh

---

**From:** John Shrieves [john.shrieves@cityfibre.com]  
**Sent:** 24 February 2014 15:41  
**To:** Maile, Kayleigh  
**Subject:** RE: Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

You recently requested information pertaining to the above location and in relation to CityFibre Holdings Ltd plant.

I can confirm that at this current time we have NO PLANT which may be affected by your proposed works.

However, due to the nature of our works this could change dependent on the roll out of the programmes. The validity of this response is 6 weeks, after such time a new enquiry would need to be made.

Please see the points of contact below if they are required:

516 Chadwick House  
Warrington Road  
Birchwood Park  
Warrington  
WA3 6AE  
0333 150 7282  
[plant.enquiries@cityfibre.com](mailto:plant.enquiries@cityfibre.com)

---

**From:** Maile, Kayleigh [mailto:Kayleigh.Maile@atkinsglobal.com]  
**Sent:** 24 February 2014 15:19  
**To:** 'Easynet'; 'plantenquiries@catelecomuk.com'; Noticing; plantenquiries@energetics-uk.com; Unit Enquiries -; genesys.noc@fluor.com; plantenquiries@instalcom.co.uk; 'interoute.enquiries@plancast.co.uk'; 'McNic'; 'OPBuriedServicesEnquiries@networkrail.co.uk'; Telenttelia.Plantenquiries@telent.com; osp-team@uk.verizonbusiness.com; National Plant Enquiry's; telford@telford.gov.uk; highways@telford.gov.uk  
**Subject:** Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

To whom it may concern,

**McNicholas – Please reply for KPN & TATA**

**[29843 - Site at Dot Hill, Severn Drive, Wellington, Telford, 364437,312588, TF1 3GJ](#)**

**[Works Description- Feasibility Study](#)**

**[Reply required by date - ASAP](#)**

Please find attached a plant enquiry with corresponding map for your attention. Please could you send us plans showing the location of your company's affected plant to the below address quoting our reference number and the name of the scheme shown above.

Please cover the **entire area** shown in the boundary on the attached map not just the arrow, this is just an indicator of the middle of the site

If you do not have any apparatus in this area, please could you send written confirmation to declare that no apparatus is affected.

Kind Regards

## Maile, Kayleigh

---

**From:** Plant Enquiries [plantenquiries@energetics-uk.com]  
**Sent:** 25 February 2014 08:53  
**To:** Maile, Kayleigh  
**Subject:** RE: Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

Dear Sir/Madam,

Thank you for submitting your recent plant enquiry.

Based on the information provided, I can confirm that Energetics **does not** have any plant within the area(s) specified in your request.

Please be advised that it may take around 10 working days to process enquiries. In the unlikely event that you have been waiting longer than 10 working days, or require further assistance with outstanding enquiries, please call 01698 404945.

Please ensure all plant enquiries are sent to [plantenquiries@energetics-uk.com](mailto:plantenquiries@energetics-uk.com)

Regards

**Claire Ferguson**

Technical Clerical Team

Energetics Design & Build  
International House  
Stanley Boulevard  
Hamilton International Technology Park  
Glasgow  
G72 0BN

t: 01698 404979

f: 01698 404940

e: [claire.ferguson@energetics-uk.com](mailto:claire.ferguson@energetics-uk.com)

w: [www.energetics-uk.com](http://www.energetics-uk.com)

---

**From:** Maile, Kayleigh [<mailto:Kayleigh.Maile@atkinsglobal.com>]  
**Sent:** 24 February 2014 15:19  
**To:** 'Easynet'; 'plantenquiries@catelecomuk.com'; 'plantenquiries@cityfibreholdings.com'; Plant Enquiries; Unit Enquiries -; [genesys.noc@fluor.com](mailto:genesys.noc@fluor.com); [plantenquiries@instalcom.co.uk](mailto:plantenquiries@instalcom.co.uk); 'interoute.enquiries@plancast.co.uk'; 'McNic'; 'OPBuriedServicesEnquiries@networkrail.co.uk'; [Telenttelia.Plantenquiries@telent.com](mailto:Telenttelia.Plantenquiries@telent.com); [osp-team@uk.verizonbusiness.com](mailto:osp-team@uk.verizonbusiness.com); National Plant Enquiry's; [telford@telford.gov.uk](mailto:telford@telford.gov.uk); [highways@telford.gov.uk](mailto:highways@telford.gov.uk)  
**Subject:** Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

To whom it may concern,

**McNicholas – Please reply for KPN & TATA**

**[29843 - Site at Dot Hill, Severn Drive, Wellington, Telford, 364437,312588, TF1 3GJ](#)**



Kayleigh Maile  
Atkins Global

**Our Ref:** W-5028

**Your Ref:** 29843

**Date:** 14/03/2014

Dear Kayleigh

**Re: Site at Dot Hill, Severn Drive, Wellington, Telford TF1 3GJ**

Thank you for your letter/enquiry of 24/02/2014

We confirm that we do not have any apparatus, plant or equipment on, near or crossing over or under the subject site which may be affected by your proposals.

Yours sincerely

June Rolland  
External Relations Officer

For further information please contact Midlands Customer Services Team  
Tel: 01734 283412/10  
Direct e-mail:- [MIDLANDSCUSTOMERSERV@environment-agency.gov.uk](mailto:MIDLANDSCUSTOMERSERV@environment-agency.gov.uk)

Enc.  
Standard Notice

Environment Agency, Riversmeet House, Newtown Industrial Estate, Northway Lane, Tewkesbury,  
Gloucestershire, GL20 8JG

Customer services line: 03708 506 506  
Email: [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)  
[www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)

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## Maile, Kayleigh

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**From:** Thomas, Stacy-Ann  
**Sent:** 18 March 2014 15:07  
**To:** Maile, Kayleigh  
**Subject:** FW: Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

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**From:** Penlington, Graham [mailto:Graham.Penlington@fulcrum.co.uk] **On Behalf Of** &box\_FPLplantprotection\_conx,  
**Sent:** 18 March 2014 15:03  
**To:** Thomas, Stacy-Ann  
**Subject:** RE: Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

You'll be pleased to know we can confirm Fulcrum Pipelines Limited do not have any existing pipes or equipment on or around the above site address.

Please note that other gas transporters may have plant in the area which could be affected by your proposed works.

We will always make every effort to help you where we can, but Fulcrum Pipelines Limited will not be held responsible for any incident or accident arising from the use of the information associated with this search. The details provided are given in good faith, but no liability whatsoever can be accepted in respect thereof.

If you need any help or information simply contact Graham Penlington directly on 01142 804175. Or you can email us at [FPLplantprotection@fulcrum.co.uk](mailto:FPLplantprotection@fulcrum.co.uk)

GRAHAM PENLINGTON  
Process Assistant



Tel: 0845 641 3060  
Direct Dial:  
Email: [Graham.Penlington@fulcrum.co.uk](mailto:Graham.Penlington@fulcrum.co.uk)  
Web: [www.fulcrum.co.uk](http://www.fulcrum.co.uk)



## FULCRUM NEWS

### WE'RE BACKING HOUSEBUILDERS WITH NEW GAS CONNECTION RATES FOR UNDER 100 PLOT DEVELOPMENTS

New partnerships with industry investment partners mean Fulcrum is now able to offer competitive market rates on smaller and medium sized housing developments and extend its reputation for cost-effective quality established on large and commercial development contracts. [Learn more.](#)

### FULCRUM WINS UTILITY WEEK ACHIEVEMENT AWARD

We are delighted to announce that Fulcrum is a Utility Week Achievement Award Winner for the gas utility works we delivered at the 2012 Olympic Games. [Learn more.](#)

# **INSTALCOM LTD**

## **CIVILS AND CABLING INSTALLATION SPECIALIST**

Instalcom House, Manor Way, Borehamwood, Hertfordshire WD6 1QH

Telephone: 0208 731 4600 Fax: 0208 731 4601 Email: [plantenquiries@instalcom.co.uk](mailto:plantenquiries@instalcom.co.uk)

07 March 2014

Dear Sir or Madam,

**Your Ref: 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford**

**Our Ref: E02-14-3784**

With reference to your enquiry regarding the above noted location, I can confirm that LEVEL 3, GLOBAL CROSSING (UK) LTD, GLOBAL CROSSING PEC FIBERNET UK LTD and FIBRESPAN LTD networks **DO NOT** have any apparatus within the immediate proximity of your proposed works.

Instalcom responds to plant enquiries for LEVEL 3, GLOBAL CROSSING (UK) LTD, GLOBAL CROSSING PEC, FIBERNET UK LTD and FIBRESPAN LTD simultaneously and therefore you only need send one copy of a plant enquiry to cover all of these companies. If you would like to query the location further, please email us accordingly and we can arrange an in depth survey, which will be charged at a cost. As we are moving towards a fully electronic database we urge our customers to request plant enquiries by email which will result in a higher level of service, please forward future plant enquiries to [plantenquiries@instalcom.co.uk](mailto:plantenquiries@instalcom.co.uk)

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

**Plant Protection Administrator**

**Instalcom Limited**

**Instalcom House,**

**Manor Way,**

**Borehamwood,**

**WD6 1QH**

**E mail: - [plantenquiries@instalcom.co.uk](mailto:plantenquiries@instalcom.co.uk)**

**Phone: - 020 8731 4600**

**Fax: - 020 8731 4601**

**[www.instalcom.co.uk](http://www.instalcom.co.uk)**



Contact Details

Email: chrissy.elliott@atkinsglobal.com

First Name: Chrissy

Last Name: Elliott

Phone: 01454 662397

=====

Asset search information

Reference: 29843

Address 1: Site at Dot Hill

Address 2: Severn Drive

Locality: Wellington

Town: Telford

County:

Postcode: TF1 3GJ

Eastings: 364437

Northings: 312588

Reason: Excavation < 350mm

Reason Other: N/A

Attachment: Map attached

Description: N/A

Any Requests: N/A

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Response

Date: 04/09/15

Vtesse ref:

Batch: 6915/153

Affected:

(highlight response)

**No**

I confirm that Vtesse Networks do not have any plant within the area of your given central coordinates.

**Yes**

Vtesse Networks are affected by your proposals and we have attached a map showing the approximate extent of our plant. If you require a detailed mark up of our plant on site please contact us on 01992 532151/103

We would ask that any excavation within the vicinity of our plant is hand dug and all precautions are taken to ensure our plant is not damaged. In the event of any damage to our plant, again please contact us on as soon as possible 01992 532 111, which is staffed 24/7.

NB: Please note the response for the above is for a 250metre radius from the central coordinates supplied (unless otherwise stated on the form by Vtesse staff) and will be valid for 28 days from the search response date. Whilst we try to ensure the information we provide is accurate, the information is provided without prejudice and Vtesse Networks Ltd accept no liability for claims arising from any inaccuracy, omissions or errors contained in this response.

Sdrive/production/plantenquiry/plant enquiry search request form



REFERENCE: 29843

ROUTE: Site at Dot Hill, Severn Drive, Wellington,  
Telford



KCOM Group PLC  
5<sup>th</sup> Floor Prospect House  
Prospect Street  
Hull  
HU2 8PU

Tel: 01482 603479

Fax:

[highwaysadmin@kcom.com](mailto:highwaysadmin@kcom.com)

Date:

Our Ref:

Your Ref:

Dear Sirs

**Please note this is a standard response made on behalf of the KCOM Group by Atkins.**

**With regards to your request for details of existing services in the search area supplied, we can confirm that based on the details provided to us, we have no buried plant or equipment in the identified area.**

**This is valid for 3 months from the date of receipt of this email. If any further information is required, please call 01482 603479, or email our group email address -**

**[highwaysadmin@kcom.com](mailto:highwaysadmin@kcom.com)**

For clarity, the KCOM group consists of KCOM, Affiniti, Torch Telecom, DRL & Kingston Communications.

Yours faithfully

**Enc.**

Please quote our reference number in all replies

## Maile, Kayleigh

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**From:** Sandra Lakin [Sandra.Lakin@mcnicholas.co.uk]  
**Sent:** 11 March 2014 20:49  
**To:** Statutory Enquiries  
**Subject:** 29842/29843/29832/29828/29824/29826/29837 - FW: PLANT ENQUIRY RESPONSES - NOT AFFECTED - TATA/KPN

The locations below are NOT AFFECTED by TATA/KPN apparatus.

29842/SNM	Atkins Global	Kilmarnock to Sneddons Law KA1 4YE
29843	Atkins Global	Site at Dot Hill Severn drive Wellington Telford TF1 3GJ
LM 29841/PC	Atkins Global	Warwick Mews Macclesfield SK11 8SW
29832/NVS	Atkins Global	Newmarket Louth LN11 9HH
29831/PC	Atkins Global	Clyde Wind Farm Area 4 South Lanarkshire ML12 6RL
29829/PS	Atkins Global	Selkirk Ipswich IP4 3JL
29828/NVS	Atkins Global	Milne Park east New Addington Croydon CR0 0BJ
LM 29833/PC	Atkins Global	Banbury Gaydon Warick CV35 0HL
LM 29823/NVS	Atkins Global	Beggar Bush Failand Bristol BS8 3TG
29824/NVS	Atkins Global	Dumers Lane Radcliffe Manchester BL9 9QL
LM 29827/PS	Atkins Global	Wentloog road Rumney Cardiff CF3 1EY
29826/NVS	Atkins Global	Nesham Street London E1W 1WY
LM 29825/PC	Atkins Global	St Andrews Road Anstruther KY10 3JA
29830/BRK	Atkins Global	Clyde wind Farm are 3 South Lanarkshire ML12 6QS
LM 29838/MG	Atkins Global	Wardour Close Macclesfield SK11 8RZ
LM 29839/NVS	Atkins Global	Gilchrist Avenue Macclesfield SK11 8UH
29837/BRK	Atkins Global	Calton Road Edinburgh EH8 8EQ
LM 29835/NVS	Atkins Global	Wilton Crescent Macclesfield SK11 8TH
29834/PS	Atkins Global	Copley Close Hanwell London W7 1BA
LM 29836/PC	Atkins Global	Chilham Place Macclesfield SK11 8TG
LM 29840/PS	Atkins Global	Earlsway Macclesfield SK11 8SR
LM 29833/PC	Atkins Global	Banbury Road Gaydon Warick CV35 0HL

**Please note:**

*McNicholas, on behalf of our client, accept no liability for claims arising from inaccuracies, omissions or errors contained within your plant enquiry request.*

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

Kind Regards,



**McNicholas Plant Enquiry Team**

Telephone - 0208 236 6592/6614  
Facsimile - 0208 236 6600

Website - [www.mcnicholas.co.uk](http://www.mcnicholas.co.uk)



National Records Centre  
Audax Road  
York, YO30 3GS  
Tel: +44 (0) 1904 386338

Kayleigh Maile  
Atkins

Your Ref: Site at Dot Hill, Severn Drive, Wellington  
Our Ref: 2640

Date 04/03/14

Dear Kayleigh Maile

**Site at Dot Hill, Severn Drive, Wellington**

With regards to your enquiry dated 24/02/14, Network Rail does not believe there is any Network Rail owned apparatus or underground services within the area you have defined. As there is always the possibility new works could be planned and undertaken in this area by Network Rail this information is valid as at today's date and is supplied for general guidance only.

Please be aware that this response is based on Network Rail's records (many of which have been inherited from predecessor Organisations) and knowledge and no guarantee can be given regarding accuracy or completeness. CAT scans, safe digging practices (as contained in HSE publications) and other appropriate investigative techniques should always be carried out. There may be other apparatus or underground services owned or operated by Utility Companies and accordingly you should contact individual utilities for information.

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

Yours faithfully,

**Gareth Milne**

Distribution Administrator

## Maile, Kayleigh

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**From:** Interoute Enquiries [interoute.enquiries@plancast.co.uk]  
**Sent:** 25 February 2014 09:25  
**To:** Maile, Kayleigh  
**Subject:** RE: Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

To whom it may concern

Thank you for your enquiry regarding the above proposals at the above location

***We would advise that we are unaware of any Interoute plant or services in this Location as indicated in your enquiry.***

***We bring to your attention the fact that whilst we try to ensure the information we provide is accurate, the information is provided Without Prejudice and Interoute and its Agents accept no liability for claims arising from any inaccuracy, omissions or errors contained in this response.***

***All responses are only valid for 28 days***

Yours faithfully

**PLANCAST Plant Enquiry Department**



The Old Haybarn  
Rosebery Mews, Mentmore  
Bedfordshire LU7 0UE

T: 01296 662647  
[www.plancast.co.uk](http://www.plancast.co.uk)

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Registered office: 1<sup>st</sup> Floor, The Old Haybarn, Rosebery Mews, Mentmore LU7 0UE.  
Registered in England and Wales with number 4455025 VAT No. 8567 195 80

---

**From:** Maile, Kayleigh [mailto:Kayleigh.Maile@atkinglobal.com]  
**Sent:** 24 February 2014 15:19  
**To:** 'Easynet'; 'plantenquiries@catelecomuk.com'; 'plantenquiries@cityfibreholdings.com';  
plantenquiries@energetics-uk.com; Unit Enquiries -; genesys.noc@fluor.com; plantenquiries@instalcom.co.uk;  
Interoute Enquiries; 'McNic'; 'OPBuriedServicesEnquiries@networkrail.co.uk';  
Telenttelia.Plantenquiries@telent.com; osp-team@uk.verizonbusiness.com; National Plant Enquiry's;  
telford@telford.gov.uk; highways@telford.gov.uk  
**Subject:** Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford



We have checked SSE's website and in this instance your area is not affected.

**telent**  
Crompton Close  
Basildon  
Essex  
SS14 3BA  
United Kingdom

Telephone: +44 (0)800 526 015  
Facsimile: +44 (0)1268 507 569

[www.telent.com](http://www.telent.com)

Date 14/03/2014  
Our Ref LPENQ0000052790

Dear Sir/Madam

**Teliasonera Line Plant Enquiry.**

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

**29843 – Site at Dot Hill, Severn Drive, Wellington, Telford**

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

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

By post – to,           telent,  
  
                                  Teliasonera line plant enquiries,  
  
                                  Crompton Close,  
  
                                  Basildon,  
  
                                  Essex  
  
                                  SS14 3BA

By email - to,           [telentelia.plantenquiries@telent.com](mailto:telentelia.plantenquiries@telent.com)

By phone – to,         0800 526 015

Yours faithfully

Telent CCO

Basildon



We have checked TrafficMaster's website and in this instance your area is not affected.

## Elliott, Chrissy

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**From:** MBNLplantenquiries <mbnl.plant.enquiries@turntown.com>  
**Sent:** 04 September 2015 17:03  
**To:** Elliott, Chrissy  
**Subject:** RE: Plant Enquiry - 29843 - Site at Dot Hill

**None affected**

Dear Sir/Madam

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

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

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

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

Kind Regards

**MBNL SHQE Team**

**Turner & Townsend**  
t: +44 (0) 121 262 3663

<http://www.turnerandtowntsend.com>

Turner & Townsend Europe Limited  
Registered Office: Low Hall, Calverley Lane, Horsforth, Leeds LS18 4GH, United Kingdom | Registered in England and Wales | Registration No: 3514794

---

**From:** Elliott, Chrissy [mailto:Chrissy.Elliott@atkinglobal.com]  
**Sent:** 04 September 2015 16:44  
**To:** mbnlplantenquiries@turntown.com  
**Subject:** Plant Enquiry - 29843 - Site at Dot Hill

**To whom it may concern,**

**29843, Site at Dot Hill, Severn Drive, Wellington, Telford, TF1 3GJ, 364437,312588**

**Works Description: Excavation < 350 mm**

Please find attached a plant enquiry with corresponding map for your attention. Please could you send us plans showing the location of your company's affected plant to the below address quoting our reference number and the name of the scheme shown above. **Please also include information relating to the use and location of Radio Frequency Identification Devices (RFIDs) where available.**

Please cover the **entire area** shown in the boundary on the attached map.

If you do not have any apparatus in this area, please could you send written confirmation to declare that no apparatus is affected.



## Maile, Kayleigh

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**From:** UK OSP-Team [osp-team@uk.verizon.com]  
**Sent:** 24 February 2014 15:39  
**To:** Maile, Kayleigh  
**Subject:** RE: Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

Dear Sirs

Verizon is a licensed Statutory Undertaker.

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

If you have any further queries please do not hesitate to call.

Yours faithfully

Chris Pile

**Plant Protection Officer E.mail [osp-team@uk.verizon.com](mailto:osp-team@uk.verizon.com)**



**Chris.Pile**  
*Plant Protection Officer OSP-Infrastructure*  
Field Operations, UK  
Office: 01293 611736  
Mobile: 07990 774438  
[www.verizon.com](http://www.verizon.com)

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**From:** Maile, Kayleigh [<mailto:Kayleigh.Maile@atkinsglobal.com>]  
**Sent:** 24 February 2014 15:19  
**To:** 'Easynet'; 'plantenquiries@catelecomuk.com'; 'plantenquiries@cityfibreholdings.com'; [plantenquiries@energetics-uk.com](mailto:plantenquiries@energetics-uk.com); Unit Enquiries -; [genesys.noc@fluor.com](mailto:genesys.noc@fluor.com); [plantenquiries@instalcom.co.uk](mailto:plantenquiries@instalcom.co.uk); 'interoute.enquiries@plancast.co.uk'; 'McNic'; 'OPBuriedServicesEnquiries@networkrail.co.uk'; [Telenttelia.Plantenquiries@telent.com](mailto:Telenttelia.Plantenquiries@telent.com); UK OSP-Team; National Plant Enquiry's; [telford@telford.gov.uk](mailto:telford@telford.gov.uk); [highways@telford.gov.uk](mailto:highways@telford.gov.uk)  
**Subject:** Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

To whom it may concern,

**McNicholas – Please reply for KPN & TATA**

**[29843 - Site at Dot Hill, Severn Drive, Wellington, Telford, 364437,312588, TF1 3GJ](#)**

**[Works Description- Feasibility Study](#)**

**[Reply required by date - ASAP](#)**

Please find attached a plant enquiry with corresponding map for your attention. Please could you send us plans showing the location of your company's affected plant to the below address quoting our reference number and the name of the scheme shown above.

## Maile, Kayleigh

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**From:** Bhaskar, Aditya  
**Sent:** 25 February 2014 06:32  
**To:** Maile, Kayleigh  
**Subject:** RE: Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

**This response is made only in respect to electronic communications apparatus forming part of the Vodafone: Fixed 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 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  
T: 01454 662881  
E: [osm.enquiries@atkinsglobal.com](mailto:osm.enquiries@atkinsglobal.com)

ATKINS working on behalf of Vodafone



### 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.

Diversions 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 [osm.enquiries@atkinsglobal.com](mailto:osm.enquiries@atkinsglobal.com). These estimates should be provided 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).

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**From:** Maile, Kayleigh  
**Sent:** 24 February 2014 20:49  
**To:** 'Easynet'; 'plantenquiries@catelecomuk.com'; 'plantenquiries@cityfibreholdings.com'; [plantenquiries@energetics-uk.com](mailto:plantenquiries@energetics-uk.com); Unit Enquiries -; [genesys.noc@fluor.com](mailto:genesys.noc@fluor.com); [plantenquiries@instalcom.co.uk](mailto:plantenquiries@instalcom.co.uk); 'interoute.enquiries@plancast.co.uk'; 'McNic'; 'OPBuriedServicesEnquiries@networkrail.co.uk'; [Telenttelia.Plantenquiries@telent.com](mailto:Telenttelia.Plantenquiries@telent.com); [osp-team@uk.verizonbusiness.com](mailto:osp-team@uk.verizonbusiness.com); National Plant Enquiry's; [telford@telford.gov.uk](mailto:telford@telford.gov.uk); [highways@telford.gov.uk](mailto:highways@telford.gov.uk)  
**Subject:** Plant Enquiry - 29843 - Site at Dot Hill, Severn Drive, Wellington, Telford

To whom it may concern,

**McNicholas – Please reply for KPN & TATA**

**[29843 - Site at Dot Hill, Severn Drive, Wellington, Telford, 364437,312588, TF1 3GJ](#)**

# Consumer Protection



## Important Consumer Protection Information

This search has been produced by Landmark Information Group Ltd, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD, Tel: 0844 844 9966 Fax: 0844 844 9980 Email: [helpdesk@landmark.co.uk](mailto:helpdesk@landmark.co.uk)

Landmark adheres to the Conveyancing Information Executive (CIE) standards.

## The Standards:

- Conveyancing Information Executive Members shall act in a professional and honest manner at all times in line with the Conveyancing Information Executive Standards and carry out the delivery of the Search with integrity and due care and skill.
- Compliance with the Conveyancing Information Executive Standards will be a condition within the Conveyancing Information Executive Member's Terms and Conditions.
- Conveyancing Information Executive Members will promote the benefits of and deliver the Search to the agreed standards and in the best interests of the customer and associated parties.
- The standards can be seen here: <http://www.conveyinfoexec.com>

## Complaints

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Standards.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPO.

## TPOs Contact Details:

The Property Ombudsman scheme  
Milford House  
43-55 Milford Street  
Salisbury  
Wiltshire SP1 2BP

Tel: 01722 333306

Fax: 01722 332296

Web site [www.tpos.co.uk](http://www.tpos.co.uk)

Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

## Landmark Complaints Procedure

If you want to make a complaint to Landmark, we will:

- Acknowledge it within 5 working days of receipt
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time
- Provide a final response, in writing, at the latest within 40 working days of receipt
- Liaise, at your request, with anyone acting formally on your behalf

Complaints should be sent to:

Customer Relationships Manager  
Landmark Information  
Imperium  
Imperial Way  
Reading  
RG2 0TD  
Tel: 0844 844 9966  
Email: [helpdesk@landmark.co.uk](mailto:helpdesk@landmark.co.uk)  
Fax: 0844 844 9980

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306,  
Email: [admin@tpos.co.uk](mailto:admin@tpos.co.uk)

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.