

A Planning Application by **SATNAM MILLENIUM LIMITED**

Peel Hall, Warrington

Utilities Report



DOCUMENT SIGNATURE AND REVIEW SHEET

Project Details

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Client:	SATNAM MILLENIUM LIMITED		

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Document Review

Revision	Date	Description	Checked By
А	January 2016	Report Amended following response from United Utilities and CCTV survey	LF
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1 INTRODUCTION

- 1.1 Transport Planning Associates have been commissioned by Satnam Millenium Limited to provide a preliminary services report for the proposed development of Peel Hall, Warrington.
- 1.2 The application site is generally bounded by the M62 to the north, Mill Lane and existing recreational grounds to the east, Windermere Avenue to the south and the A49 to the west. Refer to Site Location Plan in **Appendix A**.
- 1.3 The proposed development is for an outline application for a new residential neighbourhood including C2 and C3 uses; local employment (B1 use); local centre including a food store up to 2000m²; A1 A5 (inclusive) and D1 uses class units of up to 600m² total (with no single unit of more than 200m²) and a family restaurant / pub of up to 800m² (A3 / A4 use); a site for a primary school; open space including sports pitches with ancillary facilities; means of access and supporting infrastructure at Peel Hall, Warrington.
- 1.4 Proposals include the construction of a mixed use development which will comprise the following:
 - 1200 (approx) Residential Dwellings;
 - 2.3 ha of commercial development including a supermarket and employment space;
 - Proposed primary school site; and
 - 0.8ha employment zone.
- 1.5 This report provides the client with asset information and location maps provided by the individual utility suppliers with a summary of which assets are potentially affected by the proposed development and associated highway works. Recommendations will be made within this report outlining what actions are required to complete the study.

Method Statement

- 1.6 A standard suite of letters were sent out to the relevant individual utility suppliers with a copy of the Site Location plan (see **Appendix A**) and a brief description of the proposed works were described in the letters.
- 1.7 BT Openreach and United Utilities required payment to provide maps.
- 1.8 Upon receipt of the letters the utility suppliers allow 28 days for issuing the required information. The asset location maps and/or letters confirming that the assets are not affected by the scheme were then collated.
- 1.9 The map information is then reviewed to ascertain whether there are services which directly cross the development site or whether there are services which are not present. The map

information provided will not indicate capacity levels, as this will need confirming through further enquiries.

2 ASSET SEARCH

- 2.1 **United Utilities (Sewerage Network and Clean Water Mains)** replied 15th July 2015 with mapping that confirmed that United Utilities assets are present within the site. There are a number of sewers located to the west of the site and also a sewer that crosses the eastern side of the side. Refer to **Appendix B**.
- 2.2 Due to the lack of clarity with the mapping in the western side of the site regarding whether the assets are currently in use or abandoned, a CCTV survey was carried out to establish which sewers in the network were still in use and easements will be required for these pipes.
- 2.3 **Clean Water Mains** United Utilities mapping has confirmed that there is a clean water pipe that runs across the eastern side of the site. Refer to **Appendix B**.
- 2.4 **Public Sewers Surface Water** There is an existing surface water sewer within the western section of the boundary.
- 2.5 **Foul Water** A foul sewer runs through the western side of the site. It would appear that this then connects into a combined sewer.
- 2.6 United Utilities have confirmed that they have no objection with the communication of foul flows with their existing network and that they would have a preference for a gravity connection. They have also confirmed that the easements required for the pipes will be based on their depth to invert which will be confirmed prior to construction. The easement should follow guidelines set out by the water authority but will most likely be 3m unless pipes are deeper than usual.
- 2.7 **BT Openreach** replied 8th July 2015 with the asset plans for the area. There is currently BT apparatus within the application site along the access road to Peel Hall Farm. There are also BT assets at the South Eastern corner of the application boundary. (Refer to **Appendix C**).
- 2.8 **National Grid** replied 30th June 2015, providing information of gas mains within the vicinity of the area.
- 2.9 National Grid maps confirmed that there are low pressure gas mains within the vicinity of the development site. The low pressure gas main travels along the access road to Peel Hall Farm. Furthermore there is a high pressure gas mains which runs along the northern boundary of the site, running east west broadly in parallel with the M62. (Refer to **Appendix D**).
- 2.10 **Scottish Power** .Mapping was received on 2nd July 2015. This mapping indicated that there are two 11kV underground cables towards the eastern end of the site. There is also a

low voltage above ground cable along the access road to Peel Hall Farm. Refer to **Appendix E**.

- 2.11 Scottish Power have confirmed that 6m easements will be required for all HV cables and 3m easements will be required for all LV cables.
- 2.12 A point of connection of 33kVA is assumed by Scottish Power on Poplars Avenue, however, this will need to be formalised by Scottish Power before development commences.

Affected Services

- 2.13 **United Utilities** As mentioned previously, there are existing assets within the application boundary. A CCTV survey is required to determine the nature of these assets and easements can be calculated from the survey information.
- 2.14 **National Grid** As previously mentioned, a low pressure gas main is located within the access road to the east of the application site. If this access is to remain for the site, this main can remain under an adopted highway, subject to confirmation by the local authority and National Grid before after a design has been provided.
- 2.15 The high pressure main identified along the northern barrier may need to be diverted or may remain in situ with the correct easements being maintained to allow access by National Grid in the future. The required easements will be discussed with National Grid and requirement for potential diversion will be subject to confirmation after a design has been provided.
- 2.16 **Scottish Power** As previously mentioned there are 11kV and low voltage cables within the application boundary. Both 11kV cables are already underground but easement requirements will need to be confirmed with Scottish Power. The low voltage cables that supply Peel Hall Farm currently run alongside the access road.

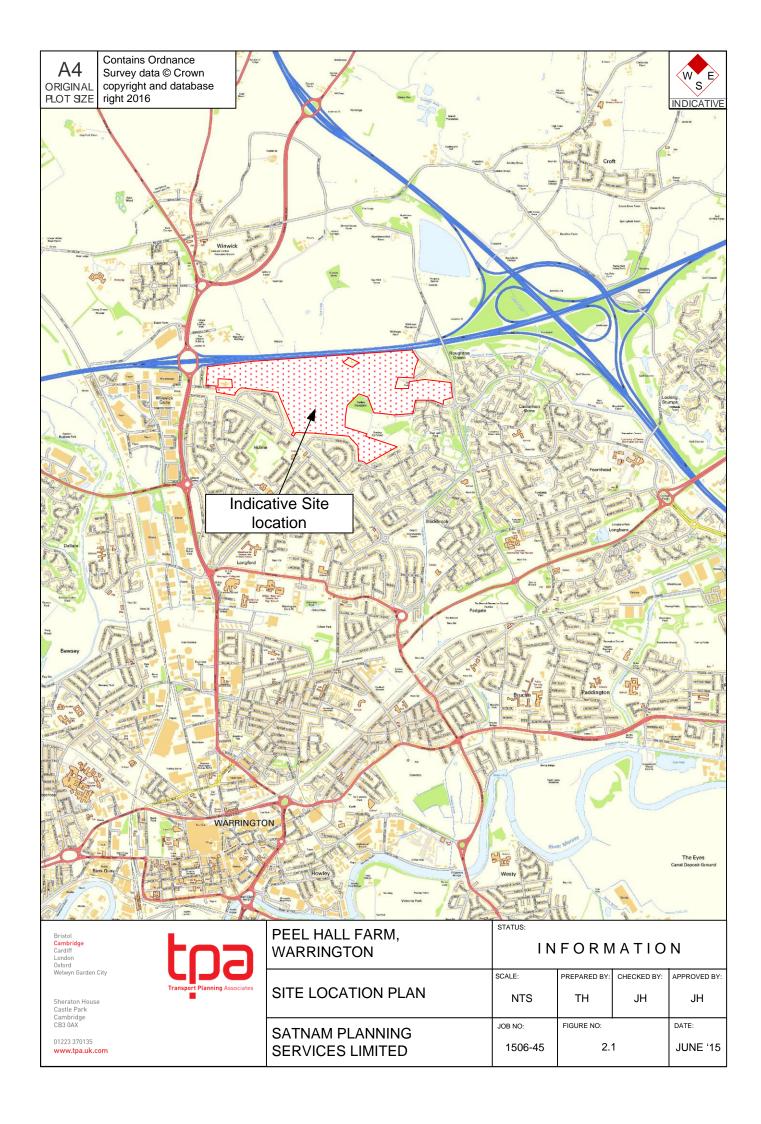
Budget Quotation

- Scottish Power Scottish Power provided an informal budget quotation for the supply of the site. The quotation was based on 1226 gas heated residential plots (1.5kVA per plot), 400kVA supply for a care home, 500kVA for employment area, 200kVA for a school and 300kVA for a small supermarket. The budget they provided was based on a primary substation (with the building to be constructed separately by the developer), 7 secondary substations and high and low voltage infrastructure on the site. The estimated cost is £3.59 million which can be reinforced following an established point of connection. Refer to Appendix E for detailed quotation information.
- 2.18 **Energetics** Energetics have provided a quote of £2.1 million to carry out gas, electric and water main supply for 1300 residential units. For quote details refer to **Appendix F**.

3 CONCLUSIONS AND RECOMMENDATIONS

- 3.1 The asset location plans provided by the utility distributors show evidence that at least three of the services will directly affect the proposed development. United Utilities, National Grid and Scottish Power have apparatus crossing the development site, which will either need diversion or incorporating into the site layout.
- 3.2 A utilities survey is recommended to provide a more accurate picture of existing utilities located within the site
- 3.3 Easement requirements for United Utility sewers are to be confirmed following CCTV survey.
- 3.4 Easements of 3m and 6m are required for Scottish Power assets crossing the site.
- 3.5 Points of connection will need to be confirmed or formalised for utilities before construction.
- 3.6 Scottish Power has provided a budget quotation for electricity infrastructure for the site.
- 3.7 Energetics have provided a budget quotation for gas, water and electricity infrastructure on the site.

APPENDIX A



APPENDIX B



Transport Planning Associates STUDIO 4 37 BROADWATER ROAD WELWYN GARDEN CITY

AL7 3AX

FAO:

Dear Sirs

United Utilites Water Limited

Property Searches Ground Floor Grasmere House Lingley Mere Business Park Great Sankey Warrington WA5 3LP

DX 715568 Warrington Telephone 0370 751 0101

Property.searches@uuplc.co.uk

Your Ref: 1503-45 PG Our Ref: 14/1121570 Date: 15/7/2015

Location: AREA OF LAND NEAR PEEL HALL FARM WARRINGTON WA2 0TA

I acknowledge with thanks your request dated 02/07/15 for information on the location of our services.

Please find enclosed plans showing the approximate position of our apparatus known to be in the vicinity of this site.

I attach General Condition Information sheets, which details contact numbers for additional services (i.e. new supplies, connections, diversions) which we are unable to deal with at this office. In addition you should ensure they are made available to anyone carrying out any works which may affect our apparatus.

I trust the above meets with you requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please telephone us on 0370 7510101.

Yours Faithfully,

Sue McManus Operations Manager Property Searches

5 Mcmanus.

United Utilities Water Limited Registered in England & Wales No. 2366678 Registered Office: Haweswater House, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP



TERMS AND CONDITIONS - WASTERWATER & WATER DISTRIBUTION PLANS

These provisions 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) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

TERMS AND CONDITIONS:

- 1. This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- 2. This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- 3. In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- 4. The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- 5. The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- 6. This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- 7. No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- 8. If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- 9. This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.



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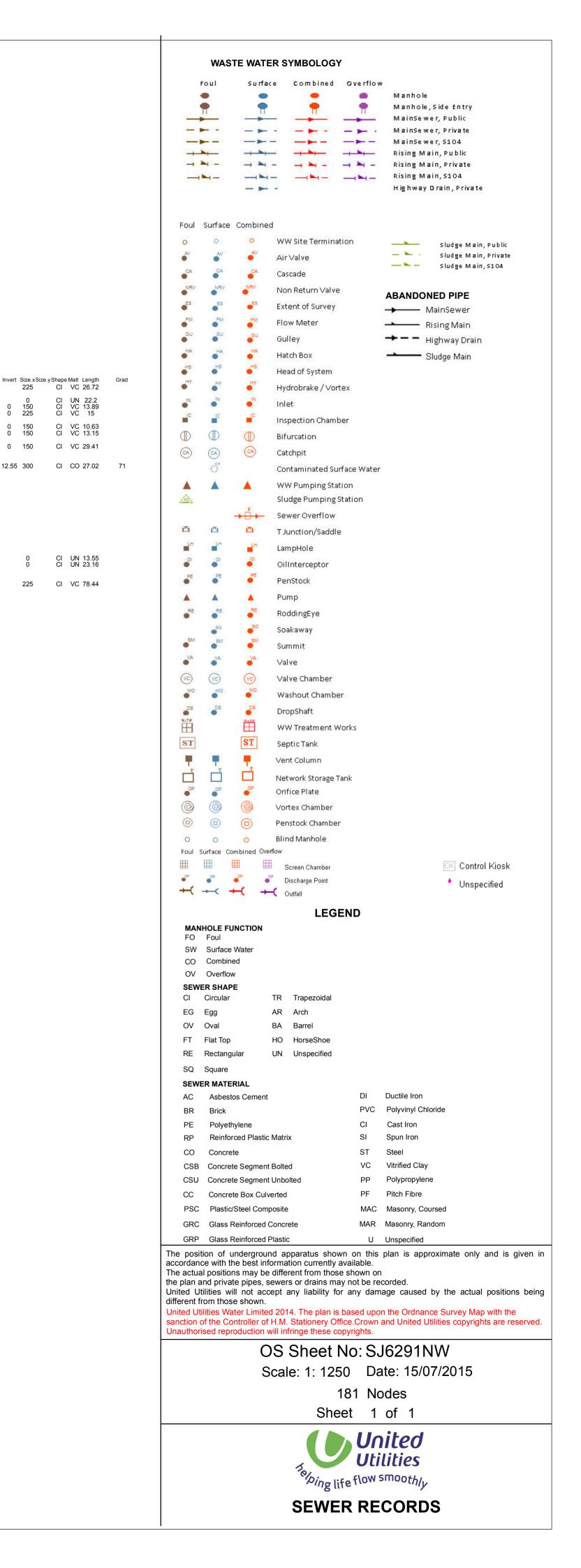
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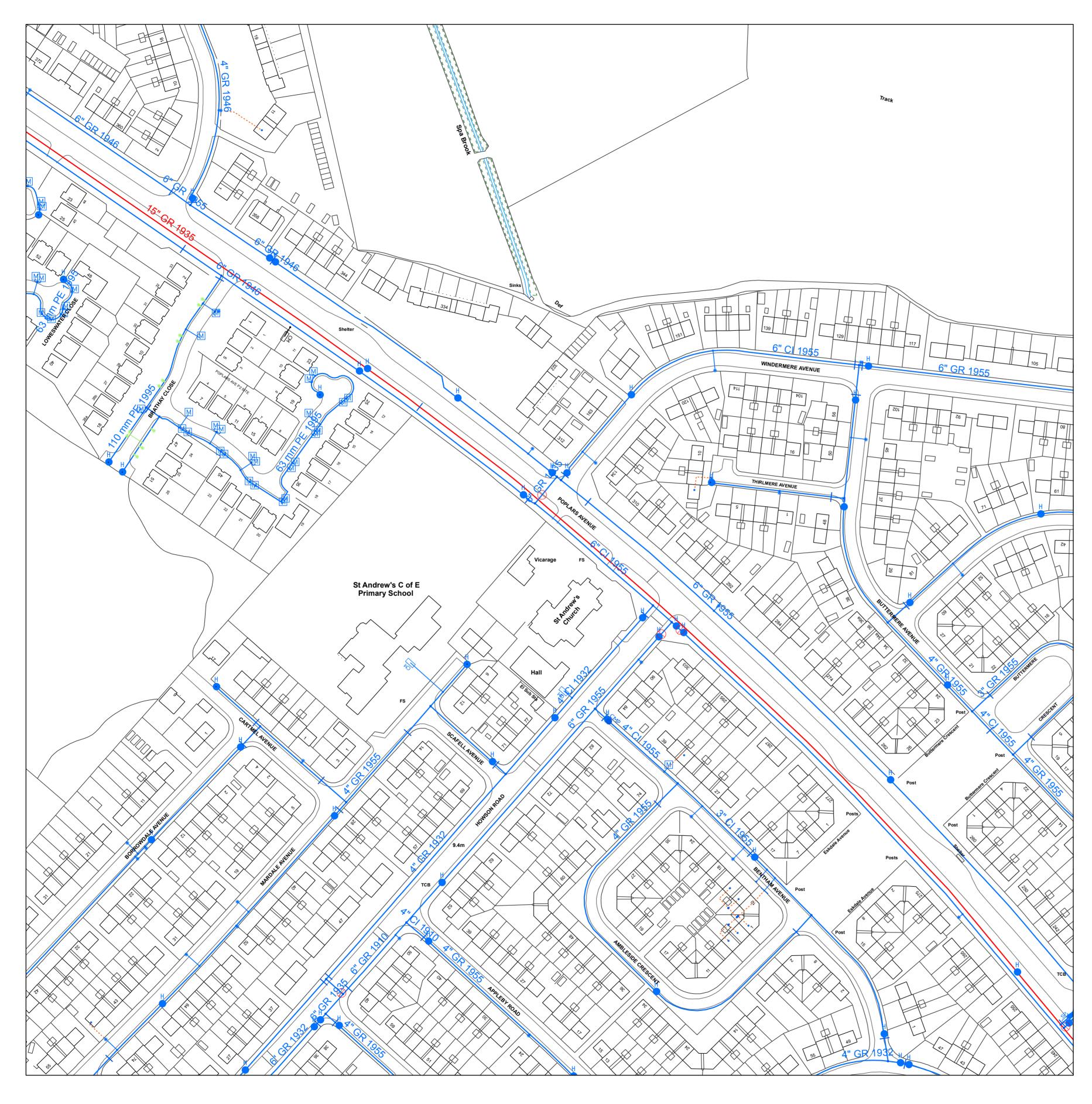
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PIPE WORK ABANDONED PIPE Proposed Trunk Main Trunk Main - PressurisedMain Raw Water Aqueduct Raw Water Aqueduct - Pressurised Main LDTM Raw Water Distribution Raw Water Aqueduct - GravityMain LDTM Treated Water Distribution LDTM Raw Water Distribution - PressurisedMain ----- Private Pipe LDTM Raw Water Distribution - GravityMain Distribution Main LDTM Treated Water Distribution - PressurisedMain Comms Pipe ----- Concessionary Service LDTM Treated Water Distribution - GravityMain Private Pipe - LateralLine Distribution Main - PressurisedMain Comms Pipe - LateralLine

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Access Point

Route Marker

Logger Box

Sampling Station

Hatch Box

----- Concessionary Service - LateralLine

Legend

Property Types Proposed Condition Report Pipe Bridges Tunnels (non carrier) Pumping Station Water Treatment Works Private Treatment Works Valve House Water Tower Service Reservoir Supply Reservoir Inlet AP Abstraction Point Domestic meter Commercial meter Telemetry Outstation Material Types AC ASBESTOS CEMENT OT OTHERS CI CAST IRON PB LEAD **CU COPPER** PV uPVC COCONCRETE
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United Utilities Water Limited 2014.

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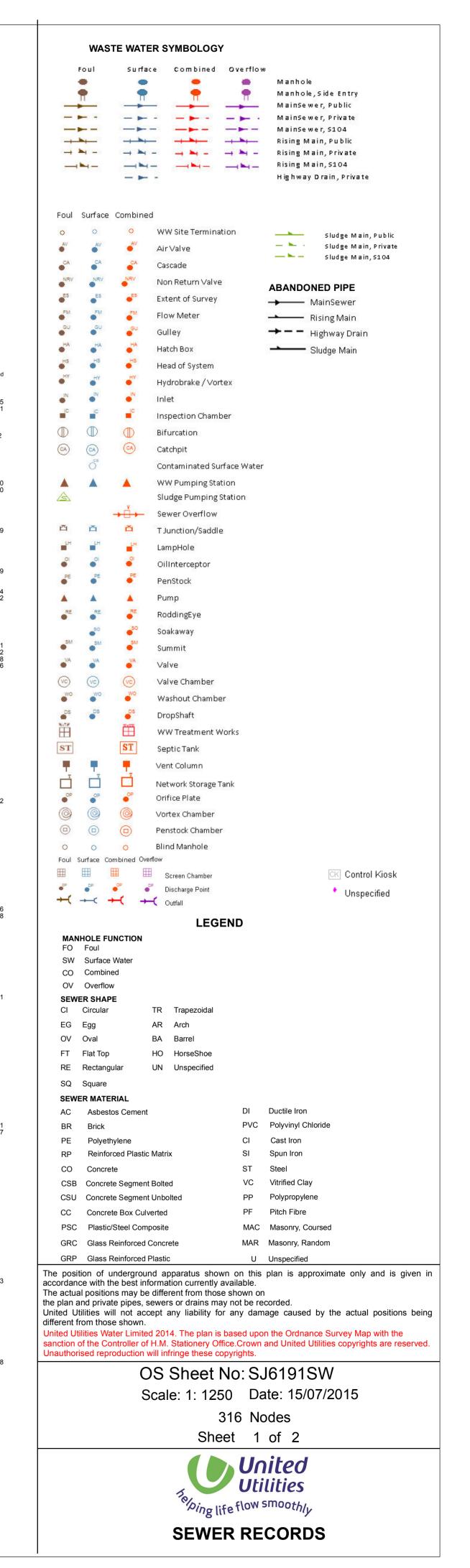
WATER MAIN RECORDS



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Logger Box

Legend

PIPE WORK ABANDONED PIPE Proposed Trunk Main Trunk Main - PressurisedMain Raw Water Aqueduct Raw Water Aqueduct - Pressurised Main ■ ■ ■ LDTM Raw Water Distribution Raw Water Aqueduct - GravityMain LDTM Treated Water Distribution LDTM Raw Water Distribution - PressurisedMain ----- Private Pipe LDTM Raw Water Distribution - GravityMain Distribution Main LDTM Treated Water Distribution - PressurisedMain Comms Pipe ----- Concessionary Service LDTM Treated Water Distribution - GravityMain ----- Private Pipe - LateralLine Distribution Main - PressurisedMain Comms Pipe - LateralLine ----- Concessionary Service - LateralLine NODES/ FURNITURE **Property Types** Live Proposed Proposed End Cap Condition Report CC Valve Pipe Bridges → AC Valve Tunnels (non carrier) Air Valve Pumping Station Sluice Valve Water Treatment Works Non Return Valve Private Treatment Works Pressure Management Valve Valve House Change of Char Water Tower Anode Service Reservoir Chlorination Point Supply Reservoir Inlet AP De Chlorination Point Abstraction Point Bore Hole Domestic meter Inlet Point Commercial meter Bulk Supply Point Telemetry Outstation Fire Hydrant Hydrant Material Types Private Fire Hydrant AC ASBESTOS CEMENT OT OTHERS CI CAST IRON PB LEAD **CU COPPER** PV uPVC Site Termination COCONCRETE
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United Utilities Water Limited 2014.

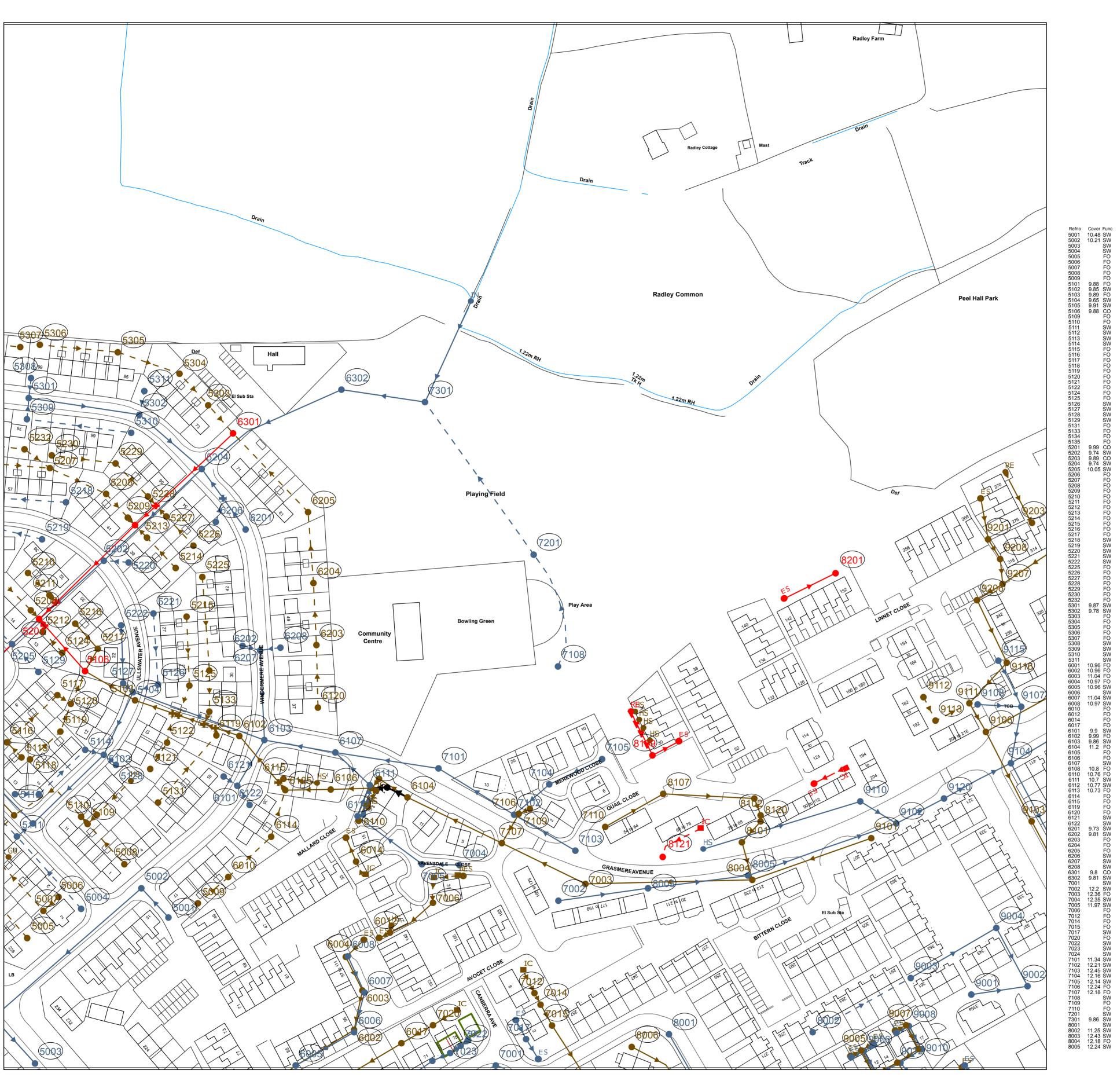
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WATER MAIN RECORDS



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CSB Concrete Segment Bolted CSU Concrete Segment Unbolted CC Concrete Box Culverted PSC Plastic/Steel Composite GRC Glass Reinforced Concrete

9.57 150 CI VC 12.53 418

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GRP Glass Reinforced Plastic The position of underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. The actual positions may be different from those shown on the plan and private pipes, sewers or drains may not be recorded. United Utilities will not accept any liability for any damage caused by the actual positions being United Utilities Water Limited 2014. The plan is based upon the Ordnance Survey Map with the

WASTE WATER SYMBOLOGY

Foul Surface Combined

WW Site Termination

Surface Combined Overflow

Non Return Valve

Hydrobrake / Vortex

Inspection Chamber

Contaminated Surface Water

Sludge Pumping Station

Bifurcation

→ i→ Sewer Overflow

LampHole

Valve Chamber

DropShaft

Septic Tank Vent Column

Orifice Plate

HO HorseShoe

UN Unspecified

Foul Surface Combined Overflow

MANHOLE FUNCTION

FO Foul SW Surface Water CO Combined OV Overflow **SEWER SHAPE** CI Circular EG Egg OV Oval FT Flat Top

RE Rectangular

Reinforced Plastic Matrix

SQ Square SEWER MATERIAL

e Discharge Point

→ ← → Outfall

Penstock Chamber

LEGEND

Washout Chamber

WW Treatment Works

Network Storage Tank

▲ ▲ WW Pumping Station

🗂 🗂 🗂 T Junction/Saddle

Extent of Survey

Manhole

Manhole, Side Entry

Highway Drain, Private

Sludge Main, Public — 🟲 - Sludge Main, Private ———— Sludge Main, S104

CK Control Kiosk

Unspecified

ABANDONED PIPE

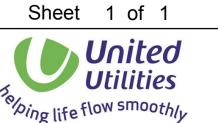
→ MainSewer Rising Main → - - Highway Drain Sludge Main

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Ductile Iron

Pitch Fibre

MAR Masonry, Random



SEWER RECORDS

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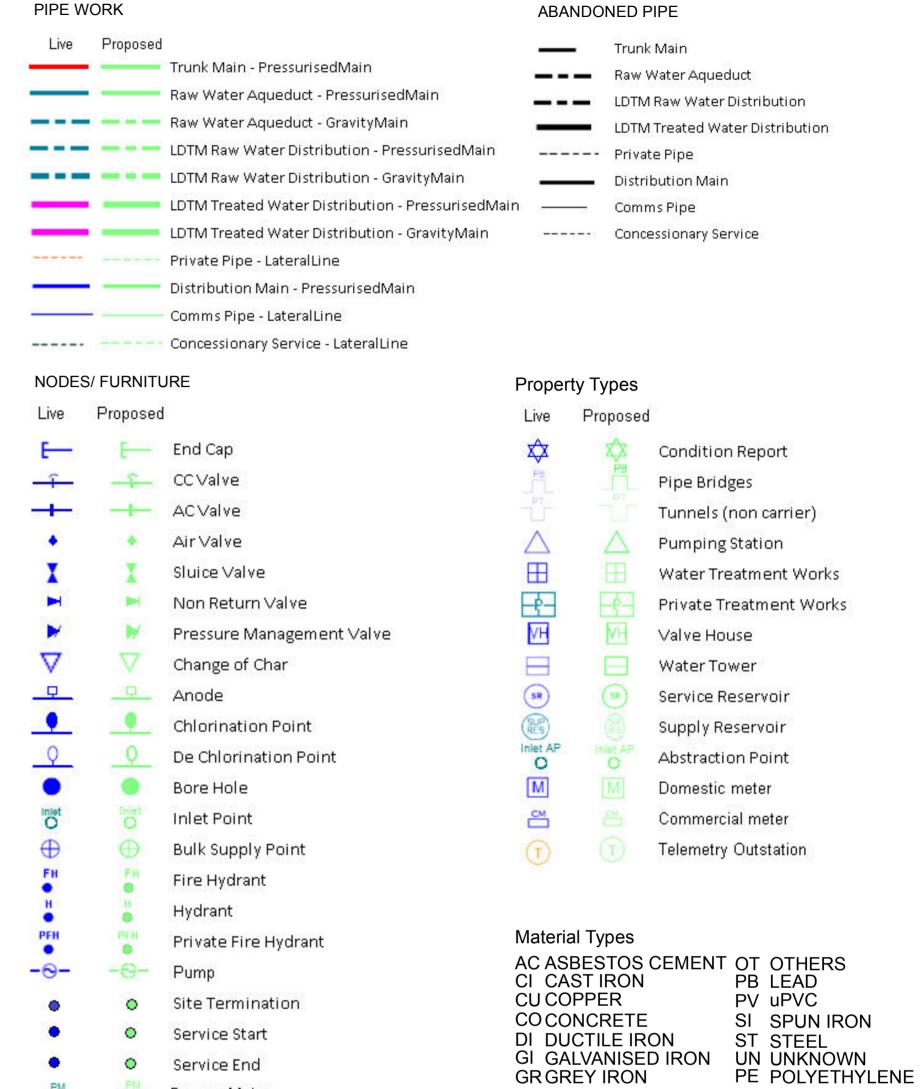


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Legend



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United Utilities Water Limited 2014.

Strainer Point

Access Point

Route Marker

Logger Box

Sampling Station

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WATER MAIN RECORDS

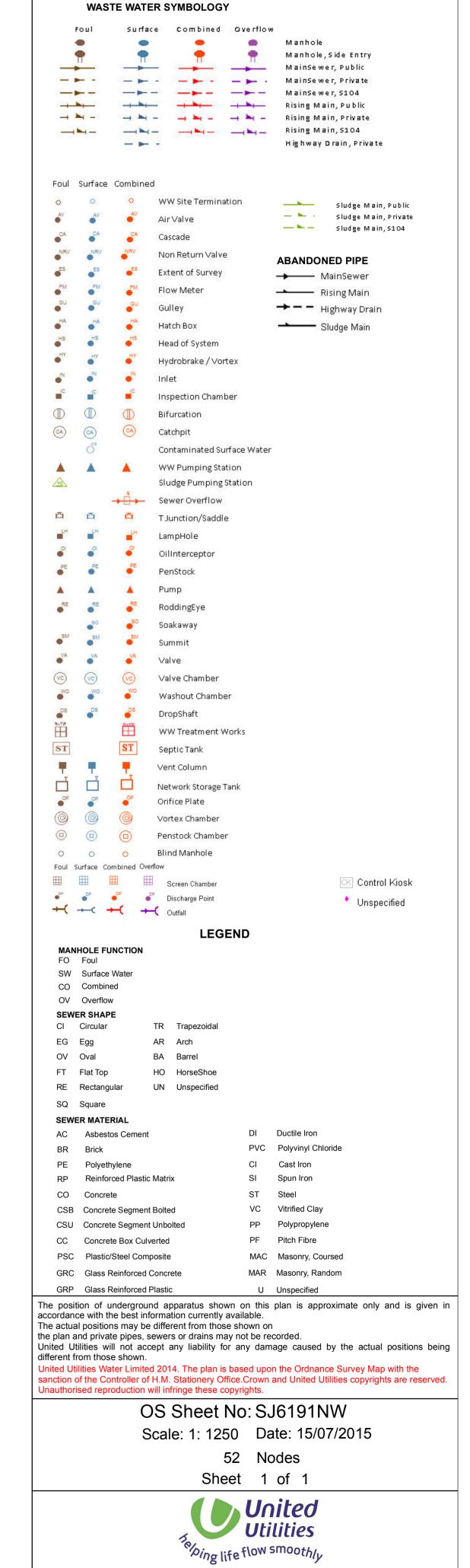


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SEWER RECORDS



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Legend PIPE WORK ABANDONED PIPE Proposed Trunk Main Trunk Main - PressurisedMain Raw Water Aqueduct Raw Water Aqueduct - Pressurised Main **── -** LDTM Raw Water Distribution Raw Water Aqueduct - GravityMain LDTM Treated Water Distribution LDTM Raw Water Distribution - PressurisedMain ----- Private Pipe LDTM Raw Water Distribution - GravityMain Distribution Main LDTM Treated Water Distribution - PressurisedMain Comms Pipe LDTM Treated Water Distribution - GravityMain ---- Concessionary Service ----- Private Pipe - LateralLine Distribution Main - PressurisedMain Comms Pipe - LateralLine ----- Concessionary Service - LateralLine NODES/ FURNITURE **Property Types** Live Proposed Condition Report CC Valve Pipe Bridges → AC Valve Tunnels (non carrier) Air Valve Pumping Station Sluice Valve Water Treatment Works Non Return Valve Private Treatment Works Pressure Management Valve Valve House Change of Char Water Tower Anode Service Reservoir Chlorination Point Supply Reservoir Inlet AP De Chlorination Point Abstraction Point Bore Hole Domestic meter Inlet Point Commercial meter Telemetry Outstation Bulk Supply Point Fire Hydrant Hydrant Material Types Private Fire Hydrant AC ASBESTOS CEMENT OT OTHERS CI CAST IRON PB LEAD CU COPPER PV uPVC Site Termination COCONCRETE
DI DUCTILE IRON
GI GALVANISED IRON SI SPUN IRON ST STEEL UN UNKNOWN PE POLYETHYLENE Service Start Service End Lining Types CL CEMENT LINING TB TAR OR BITUMEN Stop Tap **ERL EPOXY RESIN**

United Utilities Water Limited 2014.

Strainer Point

Access Point

Route Marker

Logger Box

Sampling Station

Hatch Box

IP Point

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Insertion Types DD DIE DRAWN DR DIRECTIONAL

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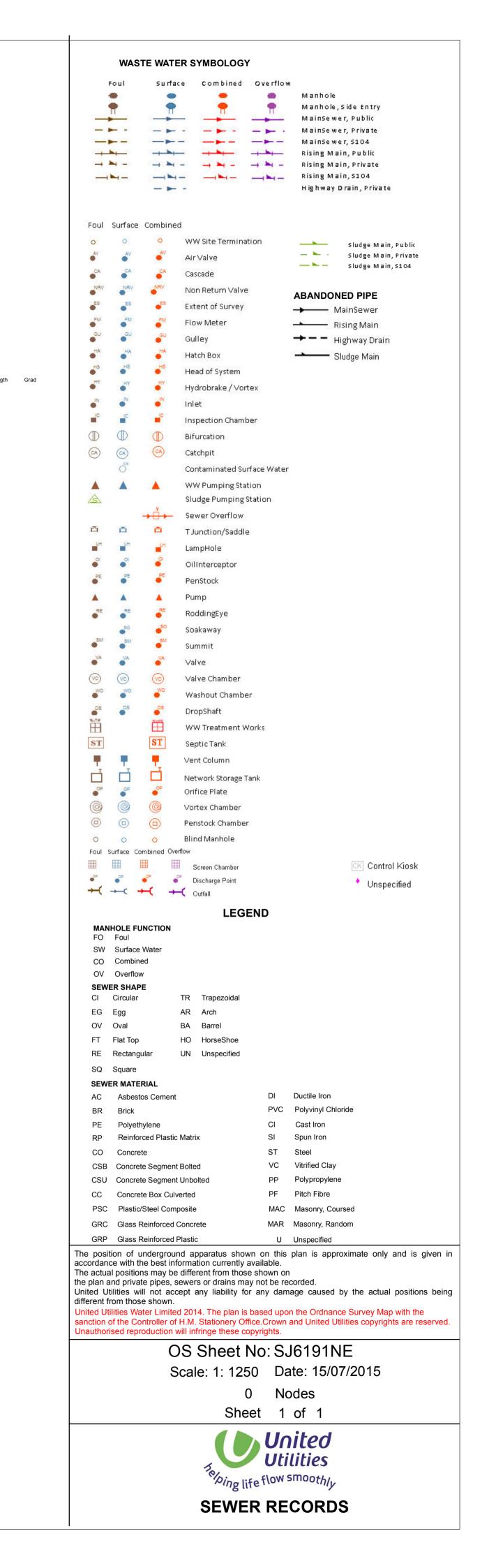
WATER MAIN RECORDS



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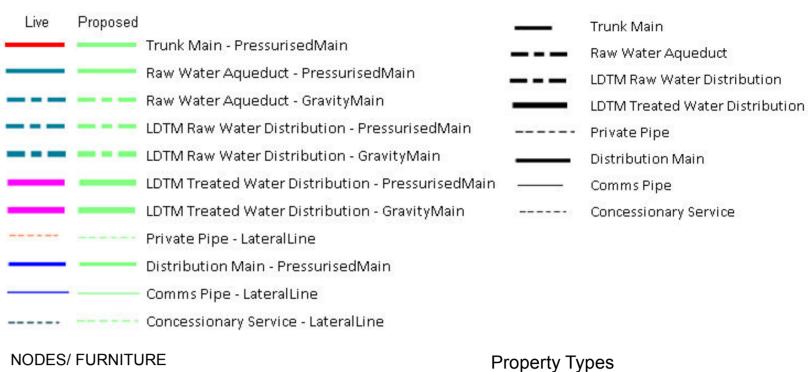


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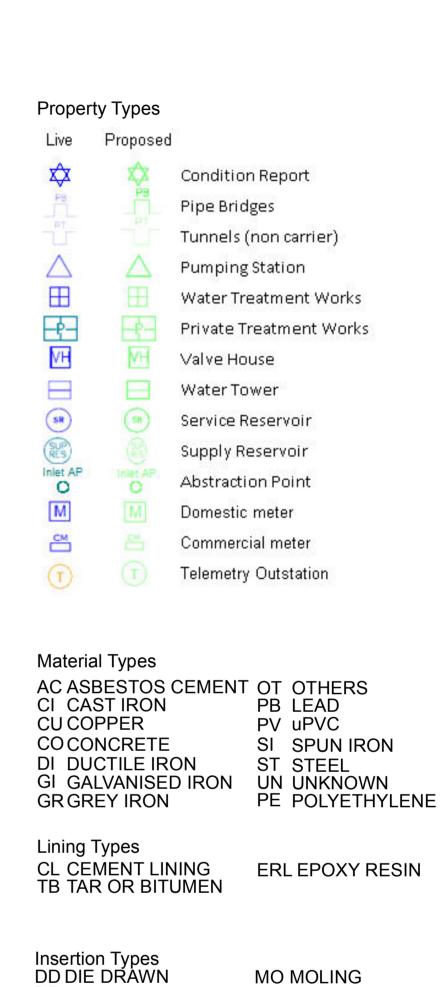
Legend PIPE WORK ABANDONED PIPE



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I	I	Sluice Valve
\rightarrow		Non Return Valve
-	D/	Pressure Management Valve
∇	∇	Change of Char
모	- Ģ	Anode
•		Chlorination Point
Q	Q	De Chlorination Point
•	•	Bore Hole
O	O	Inlet Point
\oplus	\oplus	Bulk Supply Point
FH	FH	Fire Hydrant
H	H	Hydrant
PFH	PEH	Private Fire Hydrant
-0-	-0-	Pump
•	0	Site Termination
•	0	Service Start
•	0	Service End
PM	PM	Process Meter
*	*	Stop Tap
SP	SD.	Monitor Location
	-	Strainer Point
AP	AP	Access Point

Sampling Station

Logger Box



Insertion Types DD DIE DRAWN DR DIRECTIONAL DRILLING

MO MOLING PI PIPELINE SL SLIP LINED

United Utilities Water Limited 2014.

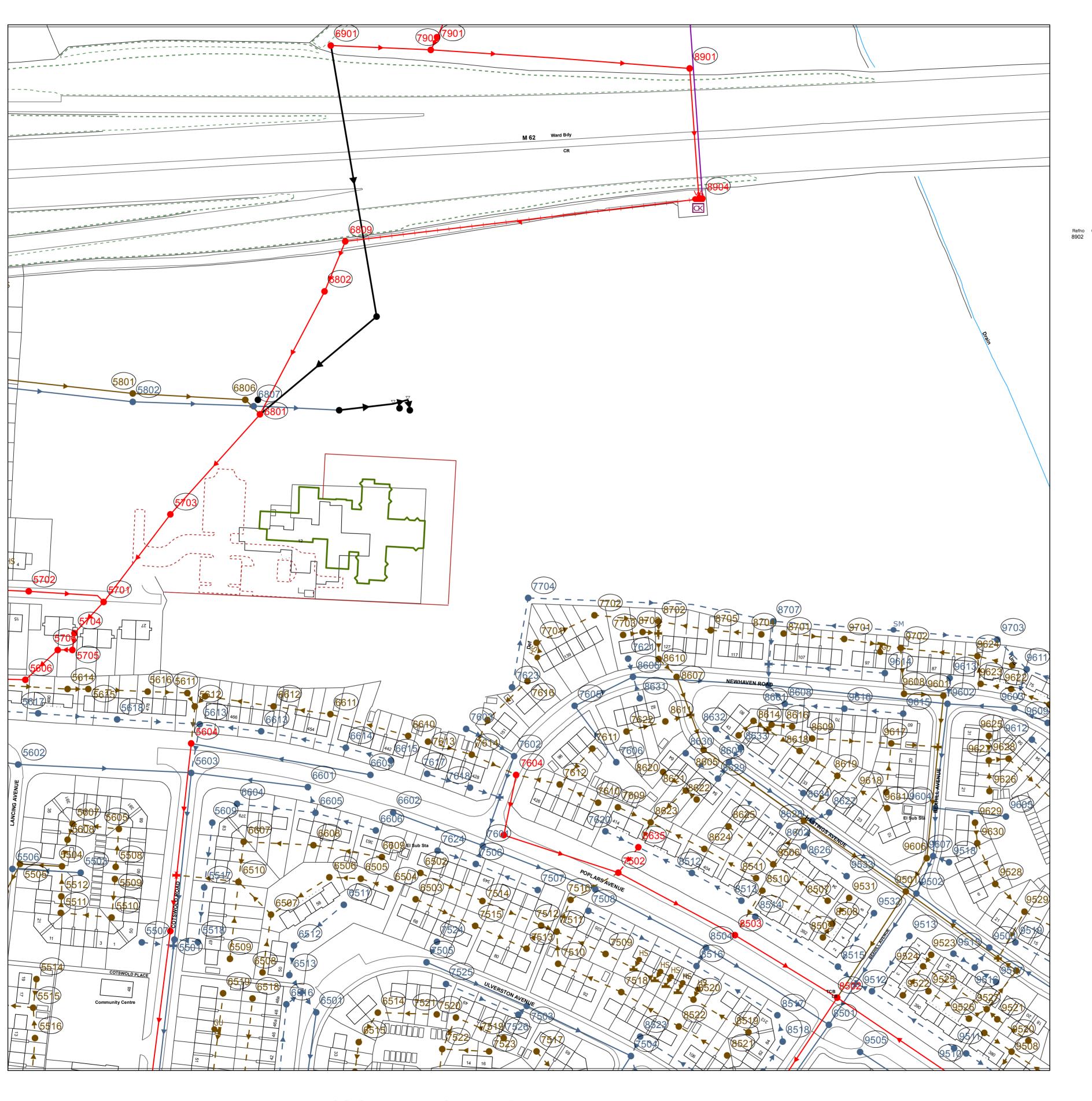
This plan is based upon the Ordnance Survey map with the sanction of the Controller of H.M.Stationary Office. Unauthorised reproduction infringes copyright. Crown Copyright preserved.

> OS Sheet No: SJ6091NE Scale: 1: 1250

> > Date: 15/07/2015



WATER MAIN RECORDS



OS Sheet No: SJ6091NE

Approximately Scale: 1: 1250 Date: 15/07/2015

Printed By: Property Searches





OS Sheet No: SJ6291NW

Scale: 1: 1250 Date: 15/07/2015

Printed By: Katy Lowry

United Utilities Water Limited 2014.
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ABANDONED PIPE

----- Private Pipe

Property Types

Inlet AP

Material Types

CU COPPER

COCONCRETE
DI DUCTILE IRON
GI GALVANISED IRON

Lining Types CL CEMENT LINING TB TAR OR BITUMEN

Insertion Types DD DIE DRAWN DR DIRECTIONAL

DRILLING

Proposed

Trunk Main

Distribution Main

---- Comms Pipe
----- Concessionary Service

Raw Water Aqueduct

LDTM Treated Water Distribution

Condition Report

Pumping Station

Tunnels (non carrier)

Water Treatment Works

Private Treatment Works

Pipe Bridges

Valve House

Water Tower

Service Reservoir

Supply Reservoir

Abstraction Point

Commercial meter

Telemetry Outstation

PV uPVC

SI SPUN IRON
ST STEEL
UN UNKNOWN
PE POLYETHYLENE

ERL EPOXY RESIN

MO MOLING PI PIPELINE SL SLIP LINED

Domestic meter

AC ASBESTOS CEMENT OT OTHERS CI CAST IRON PB LEAD

■ ■ ■ LDTM Raw Water Distribution

Crown Copyright preserved.

Legend

PIPE WORK

Proposed

NODES/ FURNITURE

Proposed

End Cap

→ AC Valve

CC Valve

Air Valve

Sluice Valve

Non Return Valve

Change of Char

Chlorination Point

Bulk Supply Point

Private Fire Hydrant

Site Termination

Service Start

Service End

Monitor Location

Strainer Point

Access Point

Route Marker

Logger Box

Sampling Station

Hatch Box

Stop Tap

De Chlorination Point

Anode

Bore Hole

Inlet Point

Fire Hydrant

Hydrant

Pressure Management Valve

Trunk Main - PressurisedMain

Private Pipe - LateralLine

----- Concessionary Service - LateralLine

Raw Water Aqueduct - Pressurised Main

LDTM Raw Water Distribution - PressurisedMain

LDTM Treated Water Distribution - PressurisedMain

LDTM Raw Water Distribution - GravityMain

LDTM Treated Water Distribution - GravityMain

Raw Water Aqueduct - GravityMain

Distribution Main - PressurisedMain

Comms Pipe - LateralLine

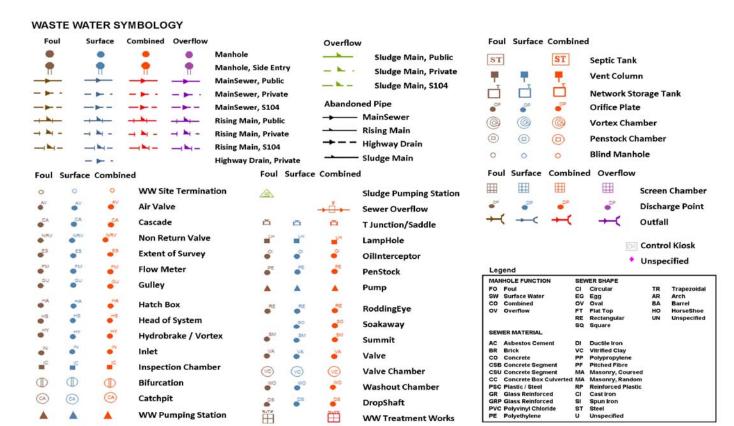
OS Sheet No: SJ6291NW Scale: 1: 1250

Date: 15/07/2015



WATER MAIN RECORDS





Valve Chamber

DropShaft

Washout Chamber

WW Treatment Works

Masonry, Randon Reinforced Plastic Cast Iron

RP CI SI ST U

CLEAN WATER SYMBOLOGY

1

(CA)

1

(CA)

1

(CA)

Inspection Chamber

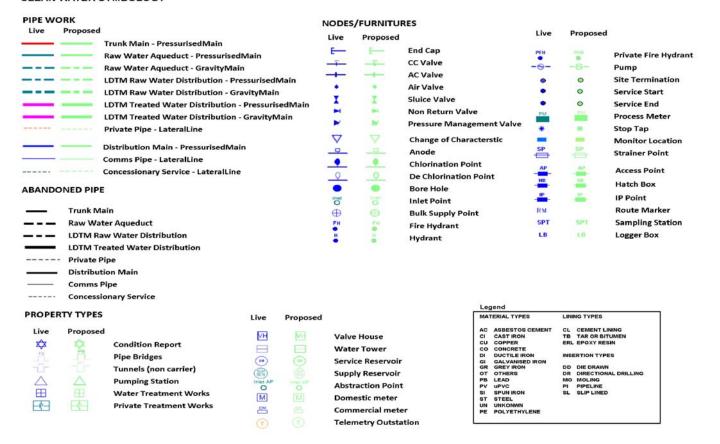
WW Pumping Station

Bifurcation

Catchpit

(VC)

WO



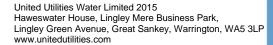
Conditions and Information regarding water distribution apparatus

These general conditions and precautions apply to the water distribution system of United Utilities

Please ensure that a copy of these conditions is passed to your representative and contractor on site.

- United Utilities provides approximate locations of its water mains or apparatus according to its records. These records are not necessarily accurate or complete nor do they normally show the positions of private service pipes from the mains to properties. Where service pipes are shown, a blue broken line indicates their approximate position. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated.
- 2. Special requirements relative to our apparatus may be indicated. United Utilities employees will visit any site at reasonable notice to assist in the location of its underground water apparatus and advise any precautions that may be required to obviate any damage. To arrange a visit or for further information regarding new supplies, connections, diversions, costing, future proposals for construction of company apparatus or any notification required under these General Conditions, please telephone us on 0345 746 2200 or write to United Utilities, PO Box 453, Warrington, WA5 3QN.
- In order to achieve safe working conditions adjacent to any water apparatus the following should be observed;
 (a) All water apparatus should be located by hand digging prior to the use of mechanical excavation.
 - (b) During construction work where heavy plant may have to cross the line of a water main, and the main is not under a carriageway of adequate standard of construction, crossing points should be suitably reinforced with sleepers, steel plates or a specially constructed reinforced concrete raft as necessary. These crossing points should be clearly indicated and crossing the line of the water main at other places should be prevented. United Utilities employees will advise on the type of reinforcement necessary. This is particularly important on agricultural or open land, where tilling or erosion may have significantly reduced the original cover.

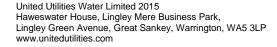
- (c) No explosive should be used within 32 metres of any United Utilities apparatus without prior consultation with United Utilities.
- (d) Where it is proposed to carry out piling within 15 metres of any water main United Utilities should be consulted so that the affected main may be surveyed.
- 4. During any excavation, it is important that measures should be taken to ensure continued support for any water main:
- (a) Where excavation of trenches adjacent to any water main is likely to affect its support, the main must be supported to the satisfaction of United Litilities
- (b) Where a trench is excavated crossing or parallel to the line of a water main, the backfill should be adequately compacted to prevent any settlement which could subsequently cause damage to the main. In special cases it may be necessary to provide permanent support to a main which has been exposed over the length of the excavation before back-filling and reinstatement is carried out. No backfilled concrete should contact the main.
- 5. No other apparatus should be laid over and along the line of a water main irrespective of clearance. A minimum clearance of 450 millimetres should be allowed between any plant being installed and an existing main, to facilitate maintenance and repair, whether the adjacent plant is parallel to or crossing the main. No manhole, chamber, or other obstruction should be built over or around a water main.
- 6. Where a water main is coated with special wrapping and the wrapping is damaged, even to a minor extent, United Utilities must be notified, and the excavation must be left open for ready access so that repairs can be made. In case of any material damage to the main itself causing leakage, or weakening of the mechanical strength of the pipe, the person or body responsible should immediately notify United Utilities in order that the necessary remedial work can be carried out. The full cost of the necessary remedial work will be charged to the person or body responsible for the damage.



- 1. If you propose to change existing levels over water mains you will need to inform us. We will need specific locations to be identified together with precise details as to the scale of the proposed changes to existing ground levels. Changes to existing levels may require the diversion of our apparatus at your cost. However, in certain circumstances we may wish to leave our apparatus where it is. On these occasions you will usually be required to protect our apparatus by means of a concrete raft and either raise or lower any surface boxes affected.
- 2. Under no circumstances should our surface boxes be either buried or left in a situation where they are raised above finished ground levels. You should reuse and reset any surface boxes affected by your works into the new surface so that they align over the water apparatus below. You will be responsible for the cost of repairing any damage to our apparatus as a result of your works.
- Where proposals involve resurfacing, you must notify United Utilities if your excavation will be greater than 750mm in the highway and 300mm in a footpath, verge or other location.
- For information regarding easements, deeds, grants, licences or wayleaves, please write to United Utilities Property Solutions, Coniston Buildings, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington WA5 3UU (Tel 01925 731 365).

Tree planting restrictions over water mains

- a) Poplar and willow trees have extensive root systems and should not be planted within 10 metres of any water main.
- b) The following trees and those of a similar size, whether they are deciduous or evergreen, should not be be planted within six metres of any water main:
 - Ash, beech, birch, elm, horse chestnut, lime, oak, sycamore;
 - · Apple trees and pear trees;
 - Most conifers.
- c) United Utilities requires access to the route of its mains at all times to inspect for leaks and carry out surveys. We recommend that no shrubs or bushes which might obstruct or interfere with our access should be planted within one metre of the centre line of any water main.
- d) There may be instances when both United Utilities and the landowner will wish to plant shrubs or bushes close to the water main for screening or other purposes. The following shallow rooting shrubs would be suitable for this purpose:
 - Blackthorn, broom, cotoneaster, elder;
 - Hazel, laurel, privet, quickthorn, snowberry;
 - Most ornamental flowering shrubs.
- e) In areas where soft fruit is grown, blackcurrant, raspberries and gooseberries may be planted close to the main, provided that a path is left clear for inspection access and surveys. United Utilities can give additional advice where required in particular circumstances.



Conditions and Information regarding wastewater network

These general conditions and precautions apply to the wastewater network of United Utilities

Please ensure that a copy of these conditions is passed to your representative and contractor on site.

- United Utilities provides the approximate locations of its sewers according to its records. These records are not necessarily accurate or complete nor do they normally show the positions of every sewer culvert or drain, private connections from properties to the public sewers or the particulars of any private system. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated. The records do indicate the position of the nearest known public sewer from which the likely length of private connections can be estimated together with the need for any off site drainage rights or easements.
- 2 Special requirements relative to our sewers may be indicated. United Utilities employees or its contractors will visit any site at reasonable notice to assist in the location of its underground sewers and advise any precautions that may be required to obviate any damage. To arrange a visit or for further information regarding new supplies, connections, diversions, costing, or any notification required under these General Conditions, please call us on **0345 602 0406**.
- 3 Where public sewers are within a site which is to be developed and do not take any drainage from outside the area, they are from an operational viewpoint redundant. The developer must identify all redundant sewers affected by the development and apply to United Utilities in writing for these sewers to be formally closed. The developer shall bear all related costs of the physical abandonment work.
- Public sewers within the site that are still live outside the area will be subject to a "Restricted Building zone". This would normally be a surface area equivalent to the depth of the sewer measured from the centre line of the sewer on either side. No construction will be permitted within that zone. The developer should also note that deep and wide rooted trees must not be planted in close proximity to live sewers. Access to public sewers must be maintained at all times and no interference to manholes will be permitted during construction work.

- 5. Where there is a public sewer along the line of a proposed development/building, arrangements shall be made by the developer at his cost to divert the sewer around the development. Where this is not possible and as a last resort, a "Building Over Agreement" will need to be completed under section 18 of the Building Act 1984. The developer shall design building foundations to ensure that no additional loading is transferred to the sewer and submit such details both to the Local Authority's Building Control Officer and to United Utilities for approval/acceptance. United Utilities on a rechargeable basis would normally undertake all aspects of design work associated with the diversion of any part of the operational wastewater network. For further advice please email wastewaterdeveloperservices@uuplc.co.uk
- 6. Where there is a non-main river watercourse/culvert passing through the site, the landowner has the responsibility of a riparian owner for the watercourse/culvert and is responsible for the maintenance of the fabric of the culvert and for all works involved in maintaining the unrestricted flow through it. Building over the watercourse/culvert is not recommended. The developer must contact the local authority before any works are carried out on the watercourse/culvert. Where it is necessary to discharge surface water from the site into the watercourse/culvert the developer shall make an assessment of the available capacity of the watercourse/culvert (based on a 1 in 50 year event) and ensure that the additional flow to be discharged into the watercourse/culvert will not cause any flooding. In appropriate cases, flooding may be prevented by on-site storage. The developer shall submit the relevant details required to substantiate his development proposals. Details of any outfall proposed shall also be submitted to the Environment Agency, PO Box 12, Richard Fairclough House, Knutsford Road, Warrington, Cheshire, WA4 1HT for their approval.
- 7. Where there is a main river watercourse/culvert passing through the site, the developer shall submit all proposals affecting the river to the Environment Agency at the address stated in paragraph 6 for approval/acceptance.

United Utilities Water Limited 2015 Haweswater House, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP www.unitedutilities.com 8. Your attention is drawn also to the following:

Private drains or sewers which may be within the site.

On 1 October 2011 all privately owned sewers and lateral drains which communicate with (that is drain to) an existing public sewer as at 1 July 2011 will become the responsibility of the sewerage undertaker. This includes private sewers upstream of pumping stations that have yet to transfer, but excludes lengths of sewer or drain that are the subject of an on-going appeal or which have been excluded from transfer as a result of an appeal or which are on or under land opted-out by a Crown body. The transfer specifically excludes sewers and lateral drains owned by a railway undertaker. Sewers upstream of such assets, however, are transferred. Such assets may not be recorded on the public sewer record currently as it was not a requirement to keep records of previously private sewers and drains.

Applications to make connections to the public sewer.

The developer must write to United Utilities requesting an application form that must be duly completed and returned. No works on the public sewer shall be carried out until a letter of consent is received from United Utilities.

Sewers for adoption If an agreement for the adoption of sewers under Section 104 of the Water Industry Act 1991 is being contemplated, a submission in accordance with "Sewers for Adoption", Seventh Edition, published by the Water Research Centre (2001) Plc, Henley Road, Medmenham, PO Box 16, Marlow, Buckinghamshire, SL7 2HD will be required, taking into consideration any departures from the general guide stipulated by United Utilities.

Further consultation with United Utilities.

Developers wishing to seek advice or clarification regarding sewer record information provided should contact United Utilities to arrange an appointment. A consultation fee may be charged, details of which will be made available at the time of making an appointment.

9. Combined sewers, foul sewers, surface water sewers, and pumped mains. These are shown separately in a range of colours or markings to distinguish them on our drawings, which are extracts from the statutory regional sewer map. A legend and key is provided on each extract for general use, although not all types of sewer will be shown on every extract. Combined sewers shown coloured red carries both surface water and foul sewage, especially in areas where there is no separate surface water sewerage system.

Foul sewers coloured brown may also carry surface water and there may be no separate surface water system indicated in the immediate area. Both combined and foul sewers carry wastewater to our treatment works before it can safely be returned to the environment.

Surface water sewers coloured blue on our drawings are intended only to carry uncontaminated surface water (e.g. rainfall from roofs, etc) and they usually discharge into local watercourses. It is important for the protection of the environment and water quality that only uncontaminated surface water is connected to the surface water sewers. Improper connections to surface water sewers from sink wastes, washing machines and other domestic use of water can cause significant pollution of watercourses.

Pumped mains, rising mains and sludge mains will all be subject to pumping pressures and are neither suitable nor available for making new connections.

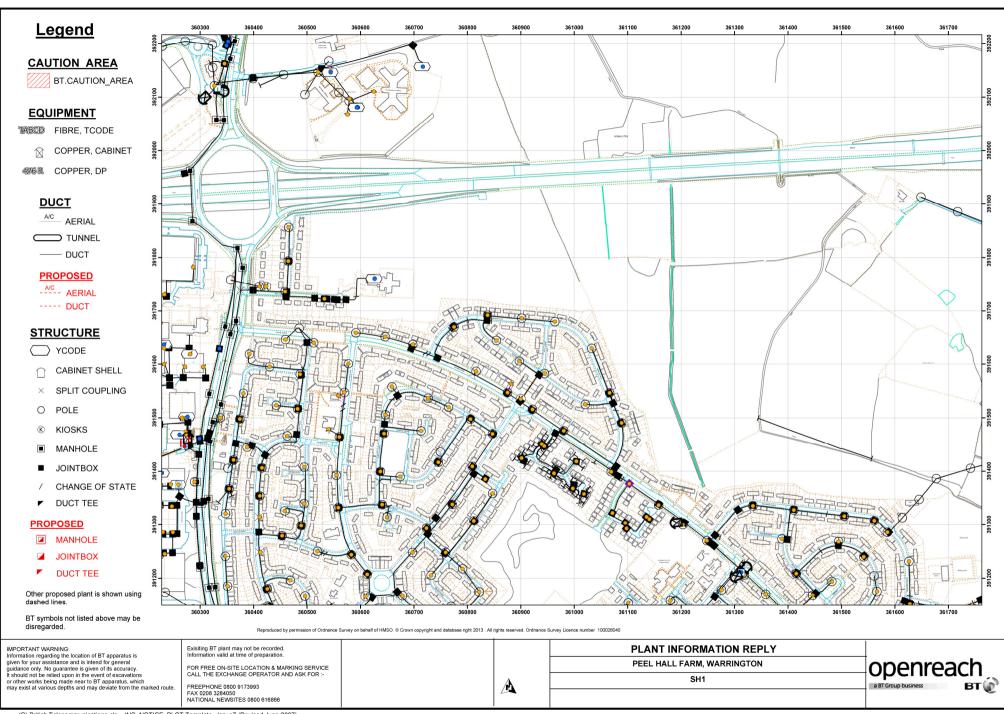
Highway drains, when included, show as blue and black dashed lines. Highway drains are not assets belonging to United Utilities and are the responsibility of local authorities.

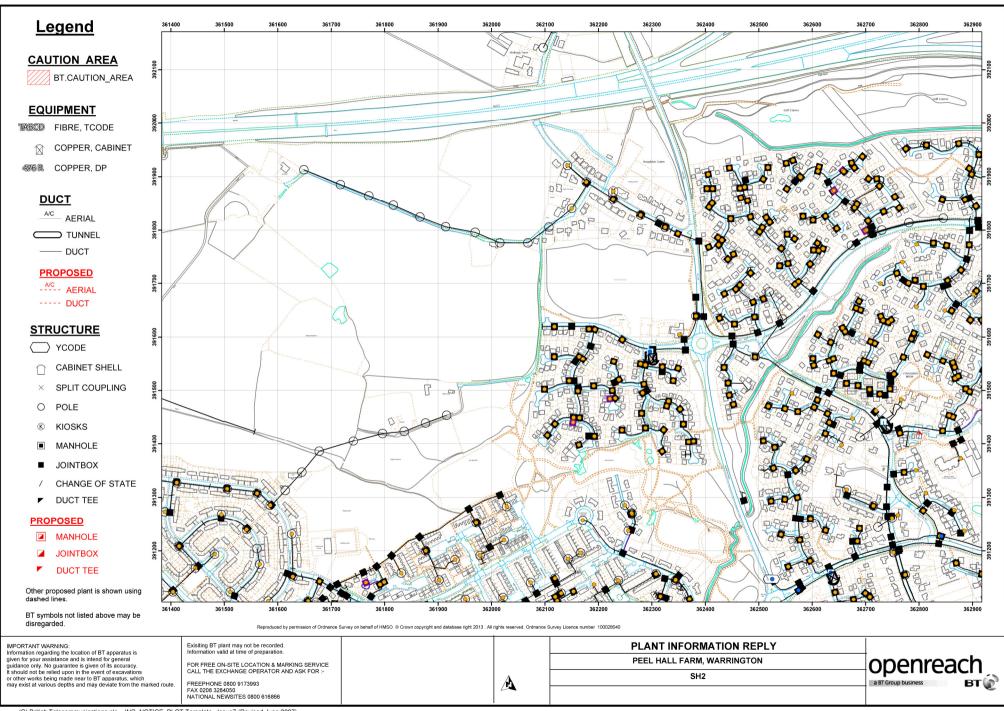
- For information regarding future proposals for construction of company apparatus please write to United Utilities, PO Box 453, Warrington, WA5 3QN.
- For information regarding easements, deeds, grants or wayleaves please write to United Utilities Property Solutions, Coniston Buildings, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington, WA5 3UU Tel: 01925 731 365

United Utilities Water Limited 2015 Haweswater House, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP www.unitedutilities.com



APPENDIX C





APPENDIX D



Rachael Burke Transport Planning Associates 32 Windsor Place Cardiff CF10 3BZ Plant Protection National Grid Block 1; Floor 1 Brick Kiln Street Hinckley LE10 0NA

E-mail: plantprotection@nationalgrid.com

Telephone: +44 (0)800 688588

National Grid Electricity Emergency Number: 0800 40 40 90*

National Gas Emergency Number: 0800 111 999*

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

www.nationalgrid.com

Date: 30/06/2015

Our Ref: NW_TW_Z1_3SWX_164155

Your Ref:

RE: Proposed Works, Peel Hall Farm Tile 1

Thank you for your enquiry which was received on 30/06/2015. Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to National Grid Electricity Transmission plc's and National Grid Gas plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.

For details of National Grid's network areas please see the National Grid website (http://www.nationalgrid.com/uk/Gas/Safety/work/) or the enclosed documentation.

As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. National Grid will endeavour to provide an <u>initial</u> assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.

In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.

Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

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

This assessment solely relates to National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) apparatus. This assessment does **NOT** include:

- National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact National Grid.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on the National Grid Website (http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf).

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid's easements or wayleaves nor any planning or building regulations applications.

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

If you require further assistance please contact the National Grid Plant Protection team via e-mail (<u>click here</u>) or via the contact details at the top of this response.

Yours faithfully

National Grid Plant Protection Team

ASSESSMENT

Affected Apparatus

The National Grid apparatus that has been identified as being in the vicinity of your proposed works is:

- High or Intermediate pressure (above 2 bar) Gas Pipelines and associated equipment
- Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)

Requirements

BEFORE carrying out any work you must:

- Carefully read these requirements including the attached guidance documents and maps showing the location of National Grid apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at http://www.hse.gov.uk
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

GUIDANCE

High Pressure Gas Pipelines Guidance:

If working in the vicinity of a high pressure gas pipeline the following document must be followed: 'Specification for Safe Working in the Vicinity of National Grid High Pressure Gas Pipelines and Associated Installations - Requirements for Third Parties' (SSW22). This can be obtained from: http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=33968

Dial Before You Dig Pipelines Guidance:

http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=33969

Excavating Safely - Avoiding injury when working near gas pipes:

http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf

Standard Guidance

Essential Guidance document:

http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf

General Guidance document:

http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=35103

Excavating Safely in the vicinity of gas pipes guidance (Credit card):

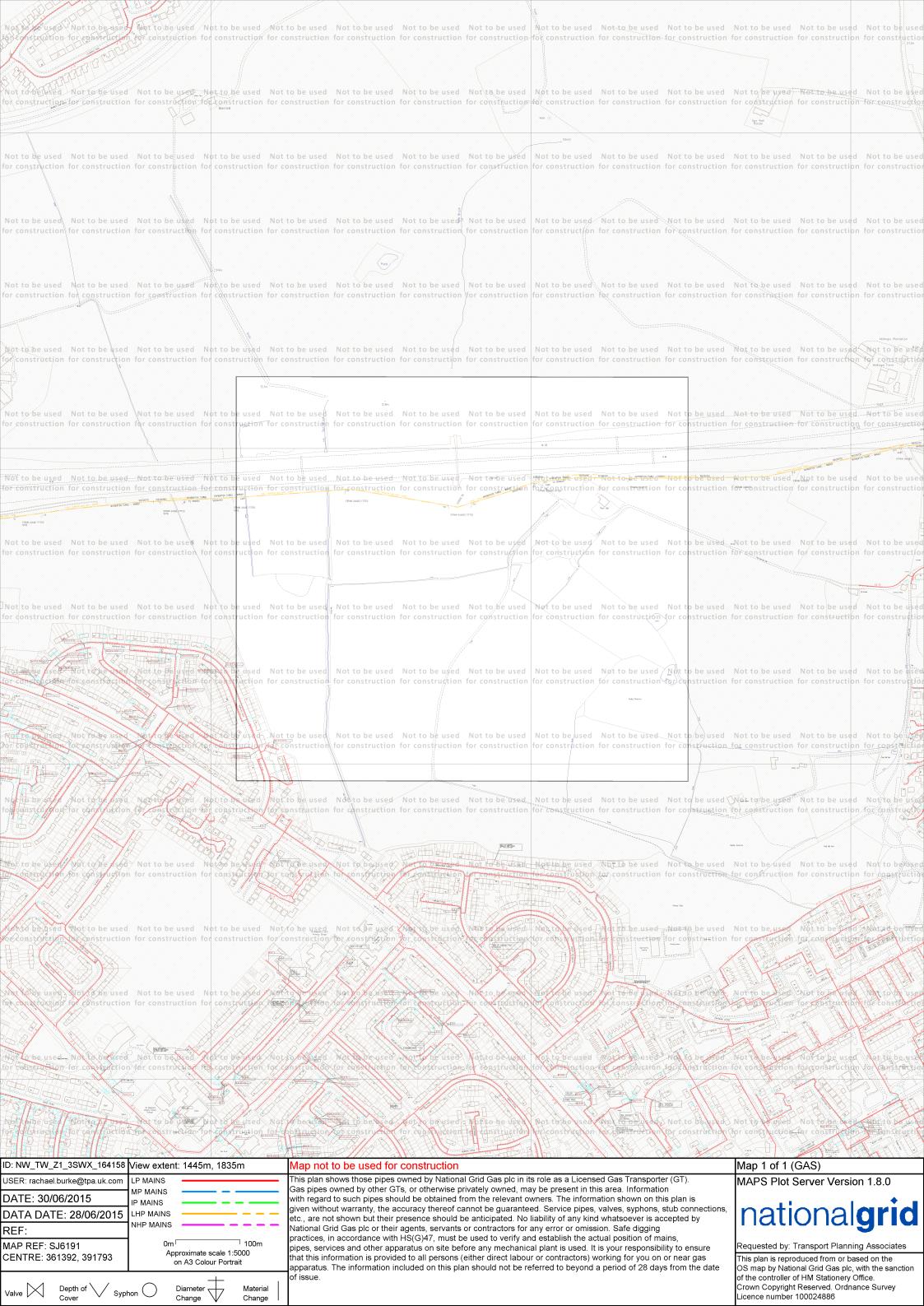
http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf

Excavating Safely in the vicinity of electricity cables guidance (Credit card):

http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf

Copies of all the Guidance Documents can also be downloaded from the National Grid Website: http://www.nationalgrid.com/uk/Gas/Safety/work/downloads/

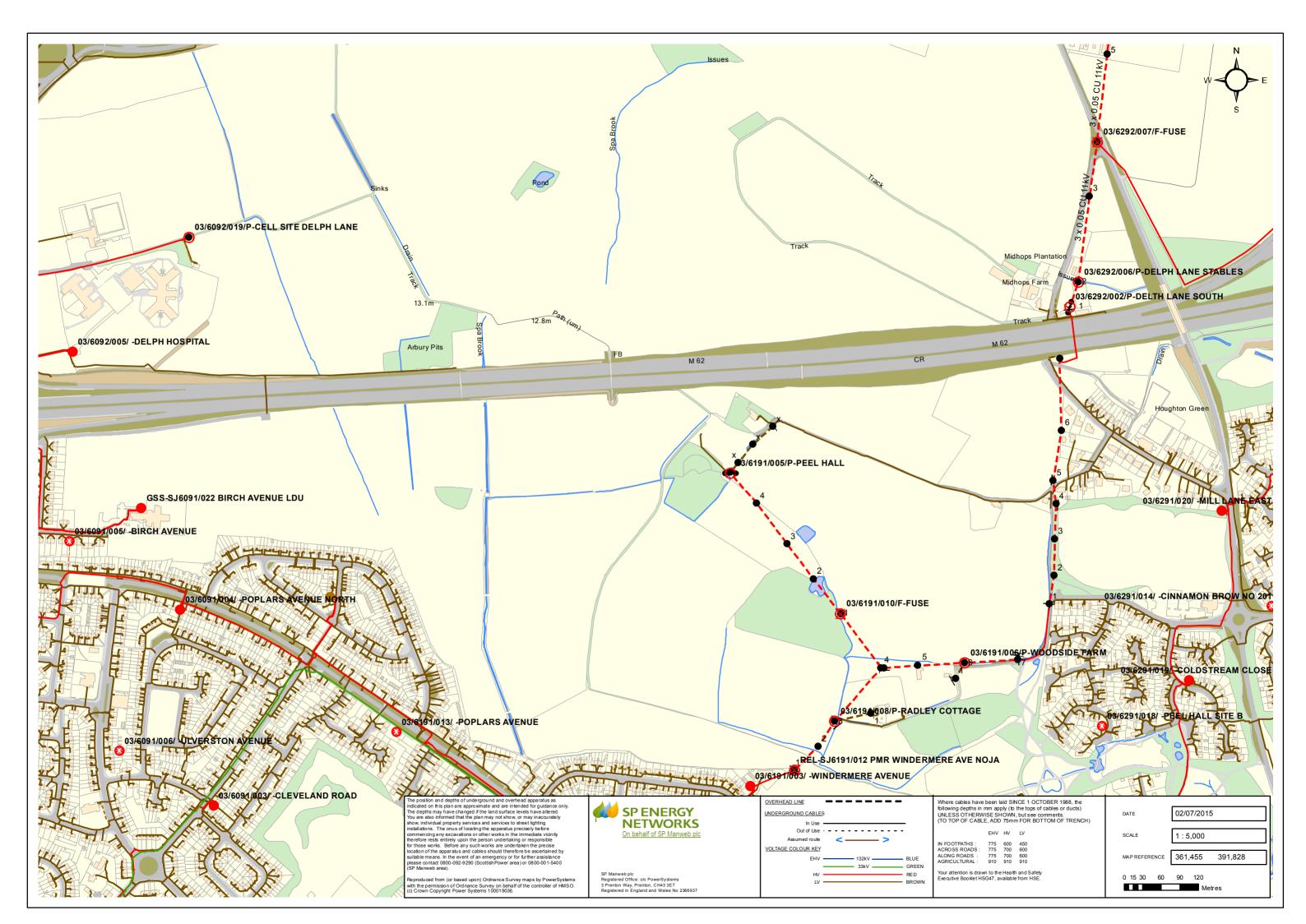






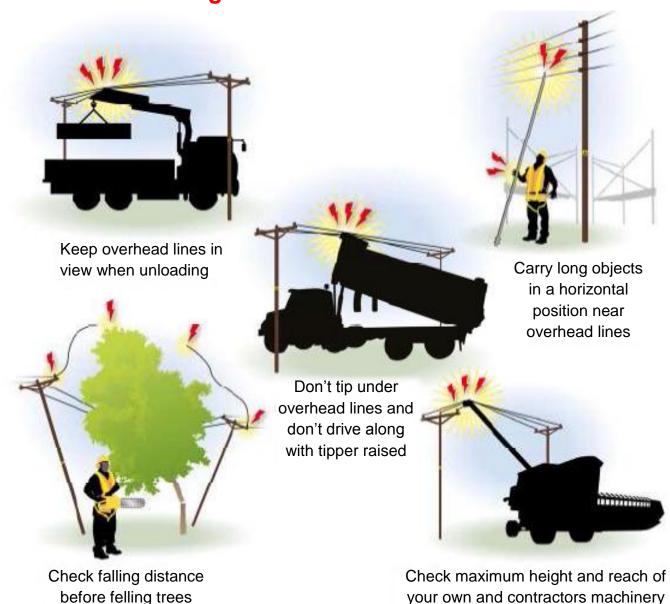
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APPENDIX E



LOOK OUT! LOOK UP!

Follow the advice in HSE Guidance Note GS6 'Avoidance of Danger from Overhead Electric Power Lines'





Look out for the Danger of Death sign – it means what it says. If in doubt contact us for free safety advice.

* Calls to 03 numbers cost no more than a national rate call to an 01 or 02 number and must count towards any inclusive minutes in the same way as 01 and 02 calls. These rules apply to calls from any type of line including mobile, BT, other fixed line or payphone.

Visit: www.spenergynetworks.com

Email: customer.care@sppowersystems.com

General Network Enquiries (England, Wales & Scotland): 0845 273 4444 / 0330 10 10 444

Power Loss & Emergencies (England & Wales): 0800 001 5400 / 0330 10 10 400

Power Loss & Emergencies (Scotland): 0800 092 9290 / 0330 10 10 222



WATCH OUT! THERE'S A CABLE ABOUT!

Follow the advice in HSE Guidance Note HSG47 'Avoiding Danger from Underground Services'

REMEMBER

Houses, offices, shops, factories and street furniture all have electric cables supplying them.

CHECK PLANS

Ensure current cable records are on site.

Carry out a risk assessment in accordance with HSG47.

Be aware that not all cables are shown on plans.



USE CABLE LOCATIONS

Before every use of CAT and Genny make sure they are calibrated and working properly.

Check plans by tracing cables and marking their position using paint, crayon, chalk or pegs.

Always scan the area you intend to excavate before you start to dig.

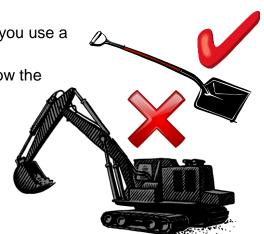


NOW DIG SAFELY

• Hand-dig trial holes to find the exact position of cables before you use a mechanical excavator.

Be aware that cables can be found at any depth, even just below the surface.

- If you find a cable embedded in concrete do not attempt to break it out. Contact us to ensure it is de-energised.
- If you cannot find cables shown on the plans never assume they are not there – contact us.
- If you damage a cable vacate the excavation, immediately phone out emergency number and keep everybody clear.





Visit www.spenergynetworks.com/safety/saferexcavations or contact us for free safety advice

* Calls to 03 numbers cost no more than a national rate call to an 01 or 02 number and must count towards any inclusive minutes in the same way as 01 and 02 calls. These rules apply to calls from any type of line including mobile, BT, other fixed line or payphone.

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Power Loss & Emergencies (Scotland): 0800 092 9290 / 0330 10 10 222



Graham, Paul

From: Whipp, Matthew [Matthew.Whipp2@spenergynetworks.co.uk]

Sent: 08 September 2015 13:01

To: Graham, Paul

Subject: QAS183943 Budget Quote Peel Hall farm, Warrington, WA20TA

Attachments: SUB-03-017 Issue 3 - Civil Eng Spec July 09 Y Type Sub.pdf; D Documentum dmcl

0000dfd6_cb266a0a.hst_800f4e5f_SP4067239 Model (1.pdf

Hi Paul,

Regarding the above please see budget cost for the assumed loads below

1226 gas heated domestic plots (average of 1.5kVA per plot)
Care home 400kVA, employment
Employment area 500kVA,
School 200kVA
Small supermarket 300kVA
Site assumed total 3239kVA

Estimated 33kV POC on Poplars Avenue

Single primary substation to be installed on site, primary building to be constructed by the developer – drawing attached but they are designed to spec on each development, the attached is an example

7 x Secondary substations to be installed on site, substation buildings to be constructed by the developer – spec drawing attached

High Voltage & Low Voltage Infrastructure from substation to service the site

Primary £1.2 million
33kv Works £250,000
Secondary substations £490,000
High Voltage works £150,000
Low Voltage works £1.5million (based on average of £1,100 per plot)

Total budget cost £3,590,000 – Costs can be formalised on application for a formal quotation Reinforcement to be identified on POC application
All based on a LAY ONLY for SP on site

This estimate is based on the above however will need to be confirmed on an application for a formal POC which will also identify if any reinforcement is required

In order to do that you will need to provide a more detailed design layout

If you require any further information please let me know

Matthew Whipp Project Coordinator SP Network Connections

Dalton Way Middlewich CW10 0HU

Tel: 07753624299

E-mail: Matthew.Whipp2@spenergynetworks.co.uk

http://www.spenergynetworks.co.uk/

APPENDIX F

Our ref: 10181BC

Energetics Contact: Chris Russett E: chris.russett@energetics-uk.com



Energetics Networked Energy LG2 The Brew House Greenalls Avenue Warrington WA4 6HL

t: 01925 635 727 f: 01925 624 169

e: info@energetics-uk.com

29th October 2015

Mr Paul Graham Transport Planning Associates 32 Windsor Place Cardiff CF10 3BZ

Dear Mr Paul Graham,

Budget Report Peel Hall Farm, Warrington (1300 units)

With reference to the above development site and the provision of utility services, we now have the pleasure in presenting the following for your consideration.

We have prepared our report to your correspondence to date. While producing this information we have made certain assumptions in relation to an appropriate utility strategy prior to any formal confirmation of upstream network conditions etc.

A brief summary of our proposal, including project responsibilities is provided overleaf.

We trust this information is of interest and we look forward to hearing from you. Should you wish to discuss any aspect in greater detail please do not hesitate to contact me on the contact email address above.

At times appropriate to your project proceeding, we would welcome the opportunity to develop a formal design and price for your consideration.

Yours sincerely,

Chris Russett

For Dave Shaw

Manager (North Region)

Engineering Design, Sales & Business Development



Technical Summary

Should your site clearance works be in advance of any Energetics new connections activities (or by others), such diverted mains may present viable point(s) of connection.

The following summary is based on the information you have provided to date. Please note this budget cost excludes the infrastructure and connections to the commercial units as requested by the developer, at this time.

In conjunction with existing utility records and our interpretation of such; we have included estimated non-contestable costs for the point(s) of connection to the existing host networks and assumed these connections to be at the following locations:

Gas: An MP CSEP to the existing host (NG 12" ST MP) main on the west footpath of Mill Lane.

Electric: 11kV POC on the entrance spine road junction with Radley lane via the existing SP Manweb network.

Water: POC to the existing host (6" Trunk main) opposite the site entrance on Poplars Avenue with a 315mm Link to the 300mm DI main opposite the proposed site entrance on Mill lane.

Any potential upstream reinforcement work/costs could only be determined following a formal application/response.

Elec Proposed:

It would be our intention to design, install, test and commission 4no. "Y" Type11kV-400/230V secondary sub-station capable of supporting your development load. (Suitable location TBC). Thereafter, we would design, install, test and commission the associated low voltage infrastructure and connections.

Elec Existing:

Host DNO 11kV /LV cable assets appear to cross the development footprint. Rather than be abandoned, we would predict that this/these asset(s) may require to be relocated/diverted to retain the existing network configuration arrangements. Energetics would be interested in undertaking these invited noncontestable electrical activities at such times as alternative routes and programmes become available. As such, the associated cost(s) for such are excluded at this stage.

Gas Proposed:

It would be our intention to design, install, test and commission 3no. MP-LP gas governors. (Suitable locations TBC). Thereafter, we would also design, install, test and commission the associated low pressure infrastructure and connections.

Gas Existing:

Host GT (High pressure) network assets appear to cross from the development footprint from the west to the east. Rather than be abandoned, we would predict that this/these asset(s) may require to be relocated/diverted to retain the existing network configuration arrangements. These works must be carried



out directly by the host GT and would be remote to Energetics activities. As such, these costs have been excluded from this exercise.

Water Proposed:

With Energetics acting as an SLO we would design, install, test and commission all water infrastructure and connections. At this stage, and subject to any future recommendations via your Site Investigation Report, we have assumed that any contamination/remediation strategy would allow for the use of HPPE/MDPE Pipe solution throughout.

Water Authority costs and charges would be as published. These have been estimated and included within our budgetary figure below. Any associated water asset values would be managed accordingly at times appropriate to the project and would generally be directly payable to Energetics.

Water Existing:

Host Water Authority assets appear to cross the development footprint. Rather than be abandoned, we would predict that this/these asset(s) may require to be re-located/diverted to retain the existing network configuration arrangements. These works would be carried out directly by the host Water Authority and would be remote to Energetics activities. As such, these costs have been excluded from this exercise.

Summary of General Responsibilities

Description	Energetics D&B	Developer/Others
Water authority statutory costs & charges (including 1300 UU infrastructure charges)	✓	
Design Approvals	✓	
Manage & co-ordinate non-contestable POC works	✓	
On-site excavation works (based on unmade conditions throughout)	✓	
Provision of sand (for the purpose of bedding & cover)	✓	
Off-site works/POC excavations and reinstatement	✓	
Permanent reinstatement (on-site)		√
Sub-station plinths and Gas Governor plinths		✓
GRP Substation Enclosure (4no.)	✓	



Based on the information available to-date, the following points identify certain exclusions and assumptions we have made in producing this information:

- Network capacity being available at such times as your development progresses.
- Non-contaminated conditions throughout.
- Suitable routes, access arrangements, plant & equipment locations are made available to our specification and satisfaction, as required.
- Costs/timescales associated with any legal consents / acquisitions related to this project.
- Non-contestable costs such as: network analysis, deviation, disconnection, abandonment, reinforcement or repairs of any existing assets are excluded from these costs. For all utilities, the actual non-contestable costs and charges would be fully rechargeable to the developer within any future formal offer.
- Unless otherwise specified this report does not allow for any disturbing loads, harmonic emissions or any means of generation which do not satisfy the conditions of P28, G5/4, G59 & G83.
- Our report does not allow for any gas compression equipment to be connected to the outlet pipe work such as Compressors / Boosters / CHP Plants etc.
- The connection of any temporary or street lighting/control pillar supplies would be subject to further consideration and offer(s).

Budget Costs

At this stage we would suggest to budget in the region of £2,100,000 to cover the utilities work(s) described above. It should be understood that this is not an offer to do work or accept as contractual and is provided for your information only.