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## Utility Feasibility Report

July 2021

**Taylor  
Wimpey**

  
Homes  
England

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## 1 Project Description

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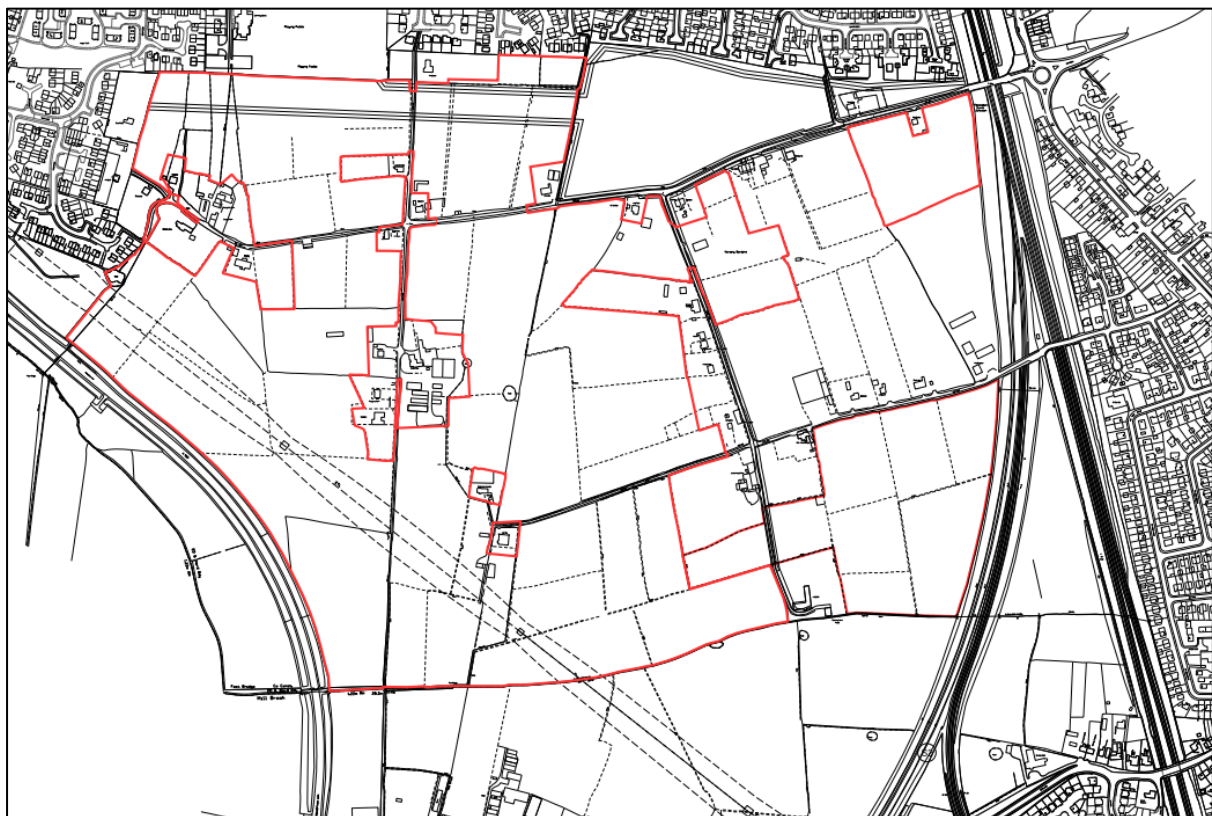
This Utility Report has been prepared by Technical and Development Services (Northern) Ltd on behalf of Taylor Wimpey and Homes England in relation to two proposed residential developments (referred to as Application A and Application B) at The Lanes, Penwortham. Both of the applications together comprise the 'Proposed Development'.

The purpose of the report is to identify the impact of the proposed development site on existing electricity, gas, water, and telecoms infrastructure and provide a tender review of multi-utility connection quotations received.

The site consists of up to 1,100 homes and associated local centre and primary school, accessed from Penwortham Way and bounded by existing homes to the north, greenfield land to the south, railway to the east and highway to the west. Within this report "the site" refers to land that falls within the application boundaries A and B which covers the area in the figure below.

The red edge location plan shows the proposed development area as shown below.

The grid reference for centre of the site is: (X: 353304, Y: 426017)





## 2 Review of Existing Infrastructure

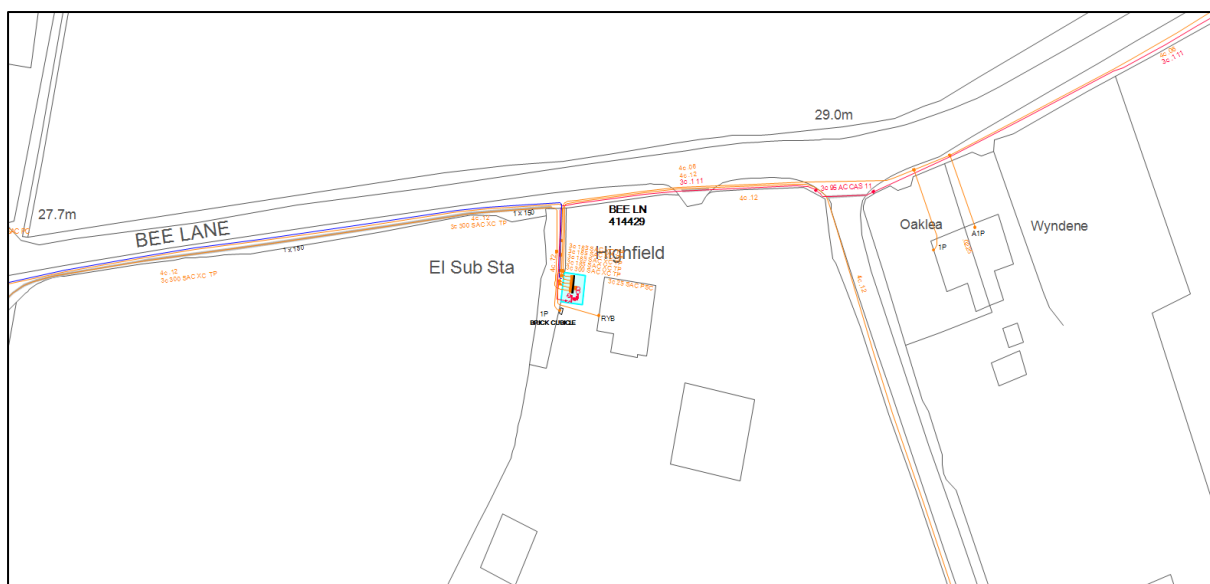
### 2.1 Electricity

#### 2.1.1 Electricity Northwest

The existing electricity infrastructure within the vicinity of the site is owned and operated by Electricity Northwest Ltd under its electricity distribution licence.

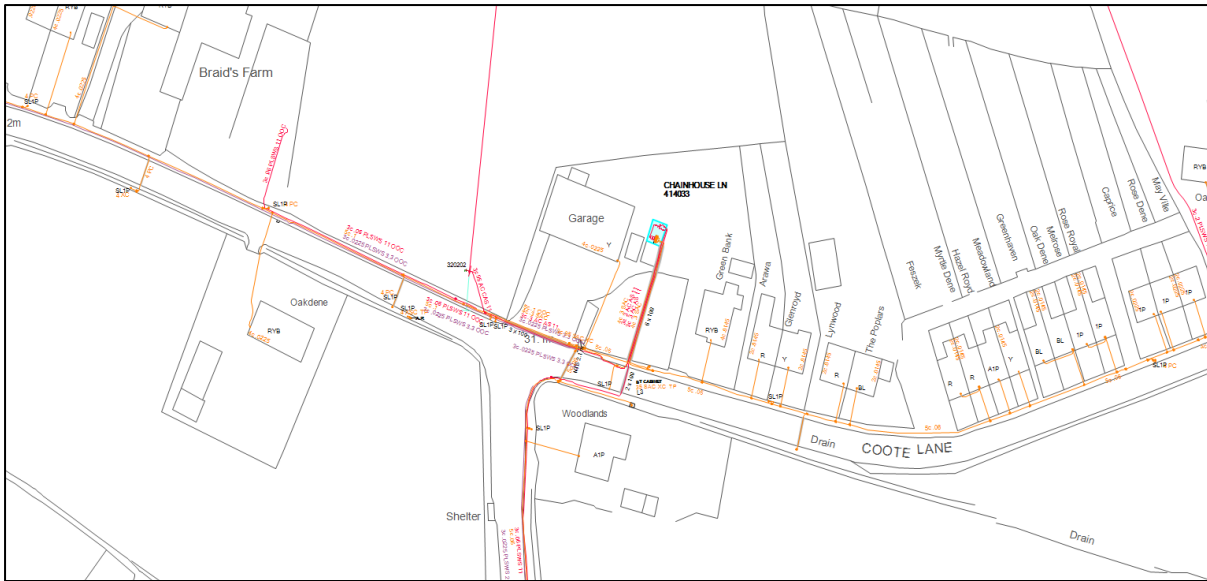
Infrastructure in the vicinity of the site includes overhead and underground High Voltage 11,000V cables, 6600V cables and Low Voltage 415V cables.

To the north of the site, 6600V cables enter the site from the east and run within Bee Lane to the 'Bee Lane' ground mounted substation. 11,000V cables exit the substation and continue along Bee Lane and exit the site to the west. The Bee Lane substation services a number of local properties and interconnects with the low voltage network feeding the estates to the north of the site.



Bee Lane Substation

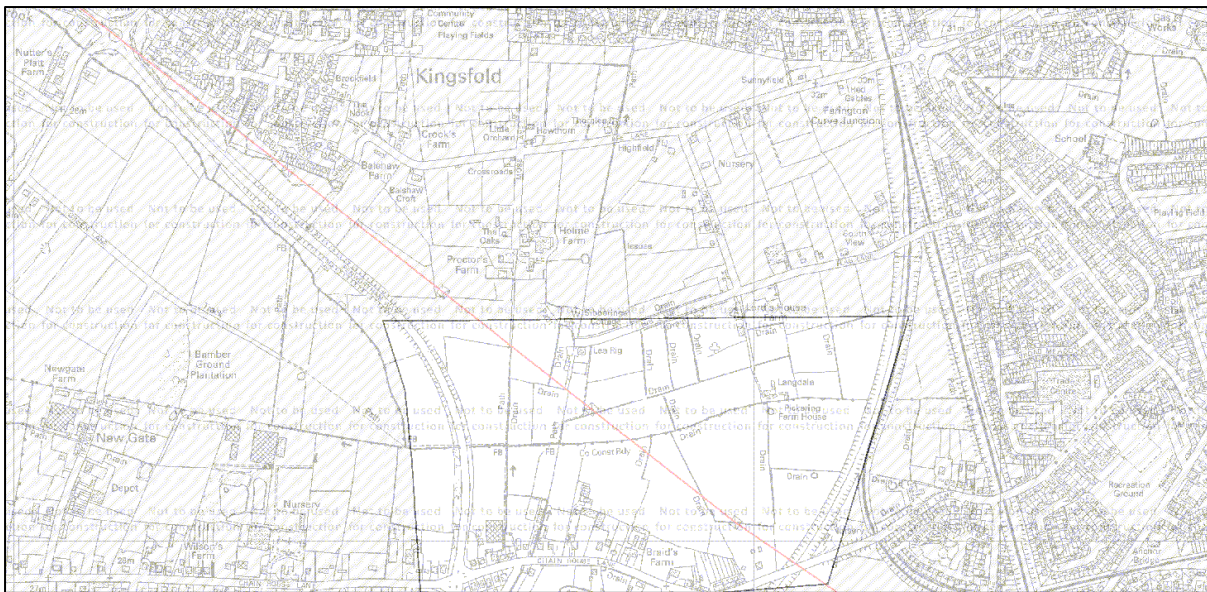
To the south of Bee Lane an 11000V overhead line crosses the site from east to west, north of Chain House Lane. This 11000V cable is connected to the existing 'Chainhouse Lane' substation off Coote Lane which feeds properties situated between the villages of Tardy Gate and Whitestake.



Chain House Lane Substation

In addition to the above Electricity Northwest Limited infrastructure, National Grid Electricity Transmission also own and operate electricity transmission lines within the boundary of the proposed site. These cables will be at voltages between 132,000V and 400,000V.

The cables cross the site from the Northwest corner of the site, to the southeast corner where Coote Lane exits the site boundary and can be seen on the below plan.



National Grid Transmission Cables

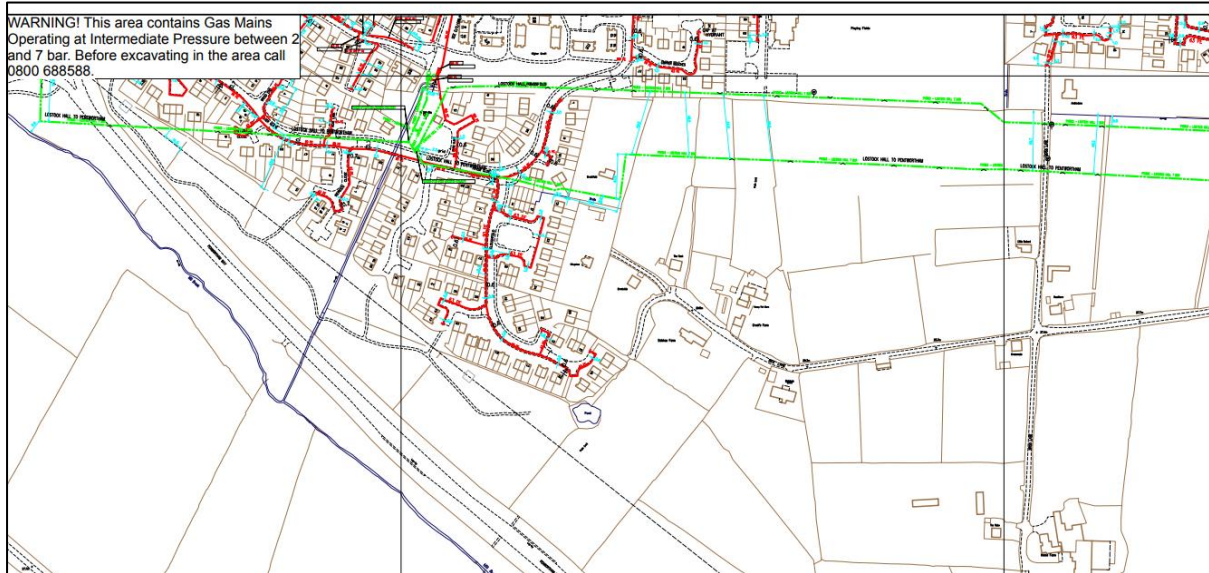
## 2.2 Gas

### 2.2.1 Cadent

The existing gas infrastructure within the vicinity of the site is owned and operated by Cadent under its gas transporter licence.

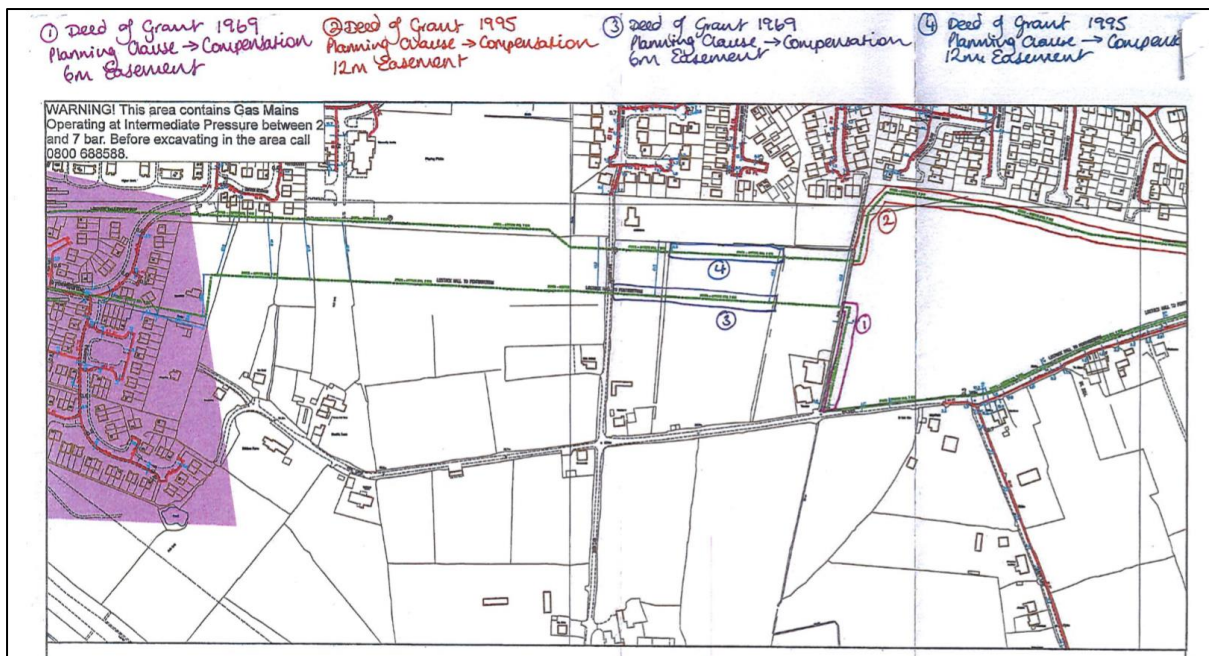
Infrastructure within the boundary of the site includes Low Pressure, Medium Pressure, and Intermediate Pressure gas distribution mains.

To the north, the site is crossed east to west by 2 No intermediate pressure gas mains which run in parallel across the site.



Northwest of the Site

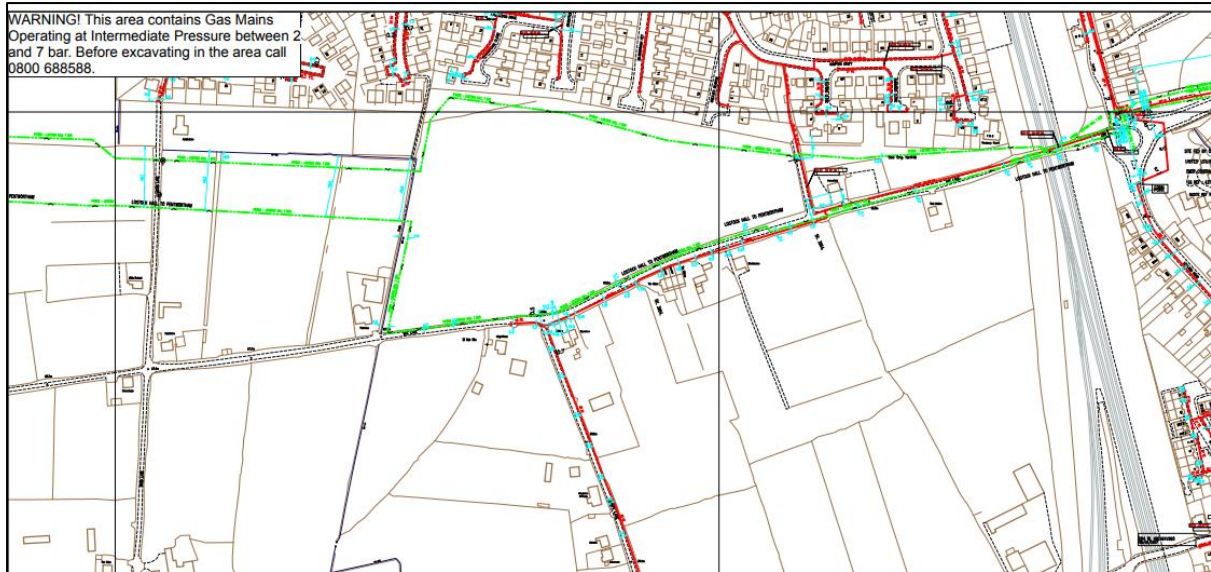
Easements for these gas mains are shown below.



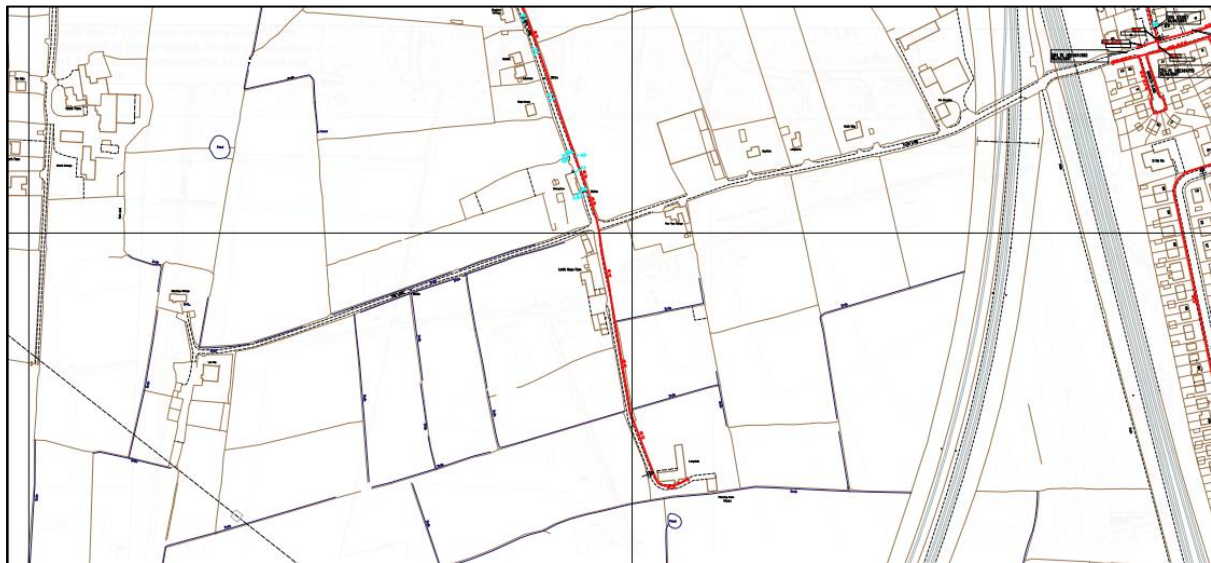
Gas Main Easements

Low pressure mains also run into the site from the east, along Bee Lane and South along Lords Lane where it terminates.





Northeast of the Site



Centre of the Site

South of the site, the existing dwellings along Chain House Lane, Coote Lane, Brook Lane and Church Lane are serviced from low pressure gas mains that are fed from the medium pressure to low pressure gas PRS on Church Lane shown below.



Gas PRS

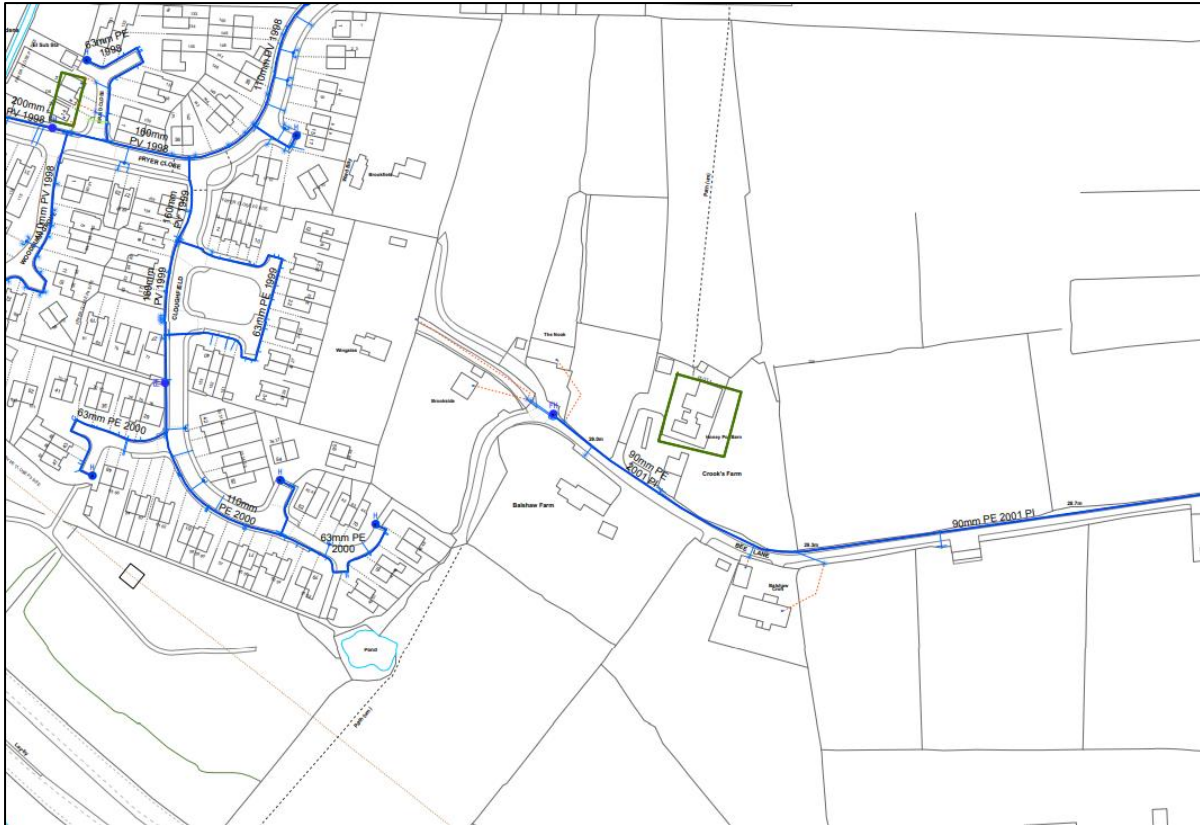
## 2.3 Water

### 2.3.1 United Utilities

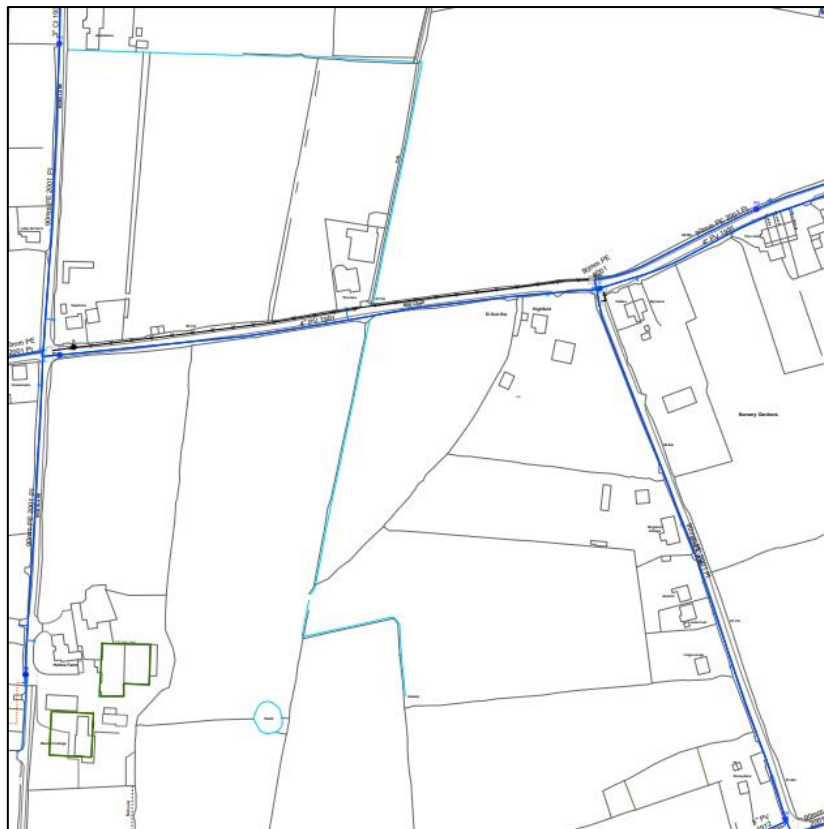
The existing water infrastructure within the vicinity of the site is owned and operated by United Utilities under its Water Supply licence.

Infrastructure within the boundary of the site includes numerous water distribution mains.

To the north of the site, existing mains in Bee Lane, Moss Lane, Lords Lane are served from connections to the distribution network to the east of the site.



Northwest of the Site



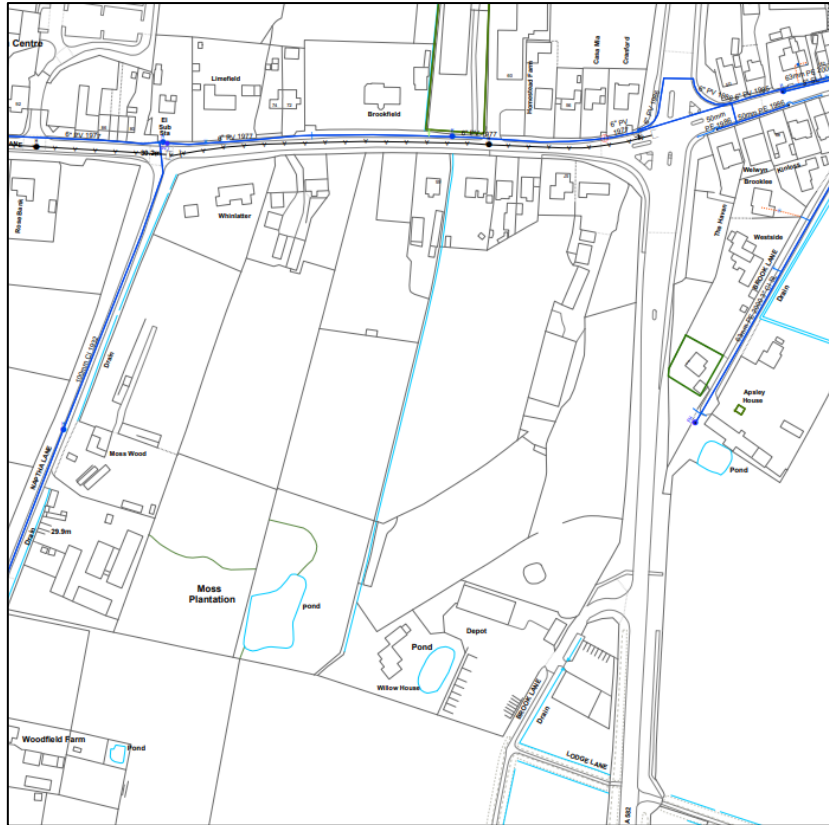
North of the Site



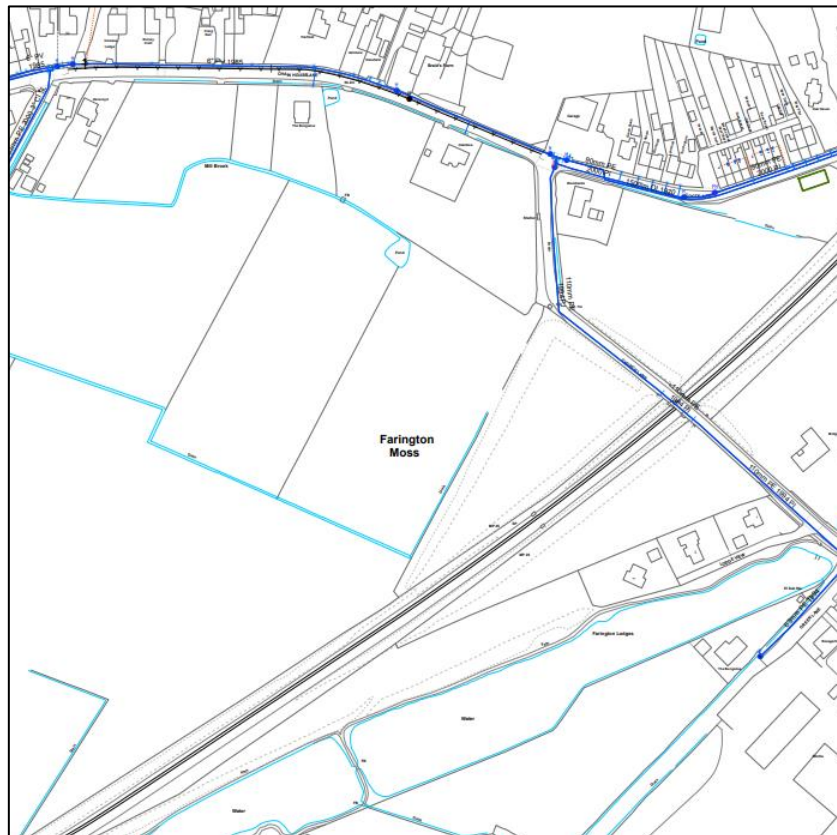


Northeast of the Site

To the south, existing dwellings on Chain House Lane, Coote Lane, Church Lane and Brook Lane are serviced from mains from the East, West and South.



Southwest of the Site



South of the Site



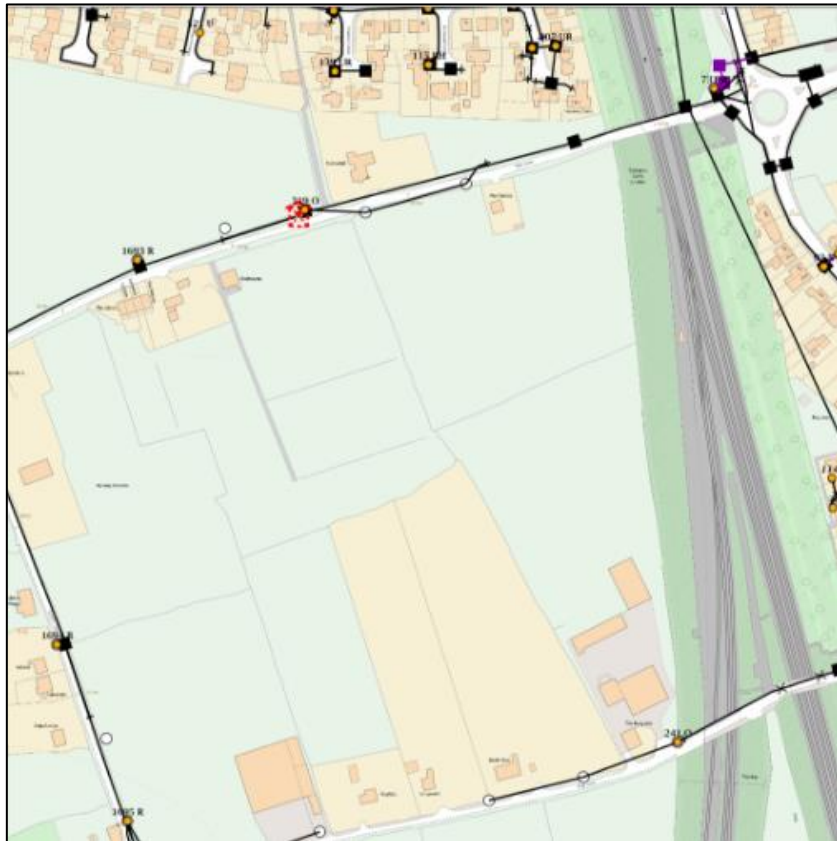
## 2.4 Telecoms

### 2.4.1 BT Openreach

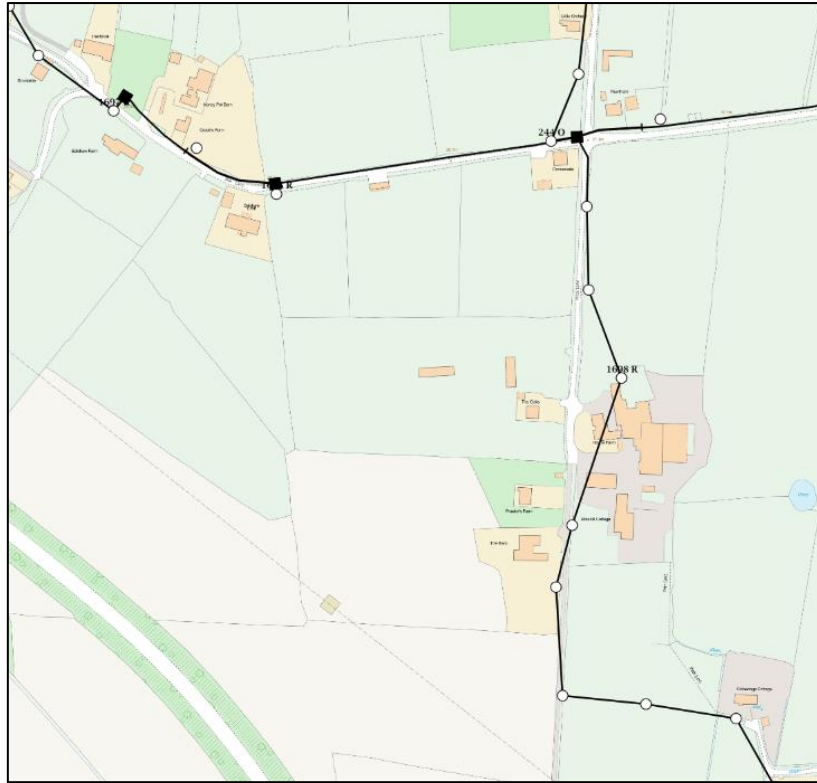
BT Openreach owns infrastructure within the vicinity of the site and is operated under rights derived from the telecommunications act.

Infrastructure within the boundary of the site includes numerous overhead cables and underground ducts and cables.

To the north of the site, underground and overhead infrastructure in Bee Lane, Moss Lane, Lords Lane are served from connections to the distribution network to the east and west of the site.



Northeast of the Site



Northwest of the Site



East of the Site

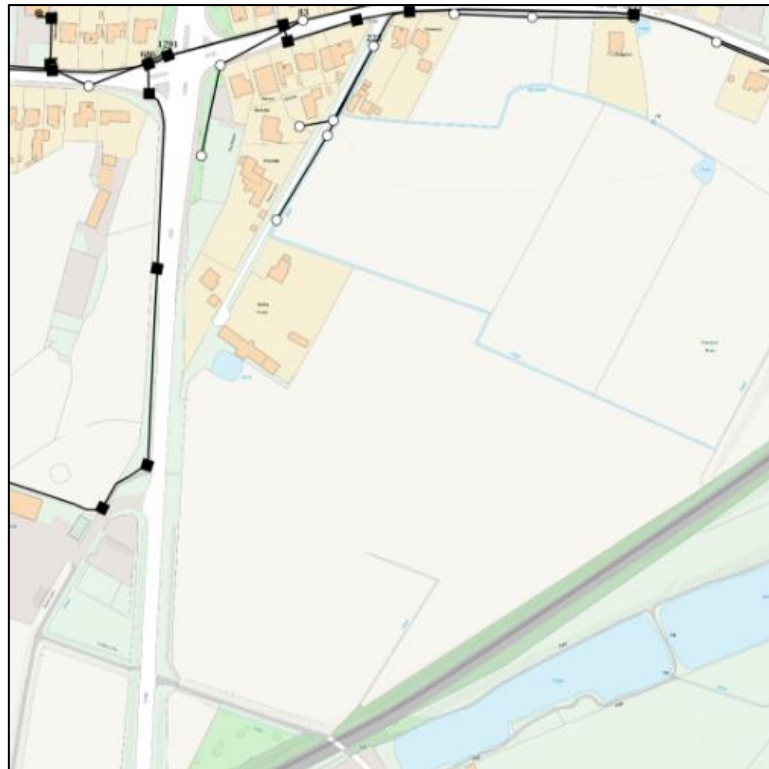
To the south, existing dwellings on Chain House Lane, Coote Lane, Church Lane and Brook Lane are serviced from mains from the East, West and South.



Centre of the Site



Southwest of the Site



South of the Site



Southeast of the Site



### 2.4.2 Virgin Media

In addition, Virgin Media also owns infrastructure within the vicinity of the site and is operated under rights derived from the telecommunications act.

Virgin Media infrastructure is largely limited to land directly east of Penwortham Way.

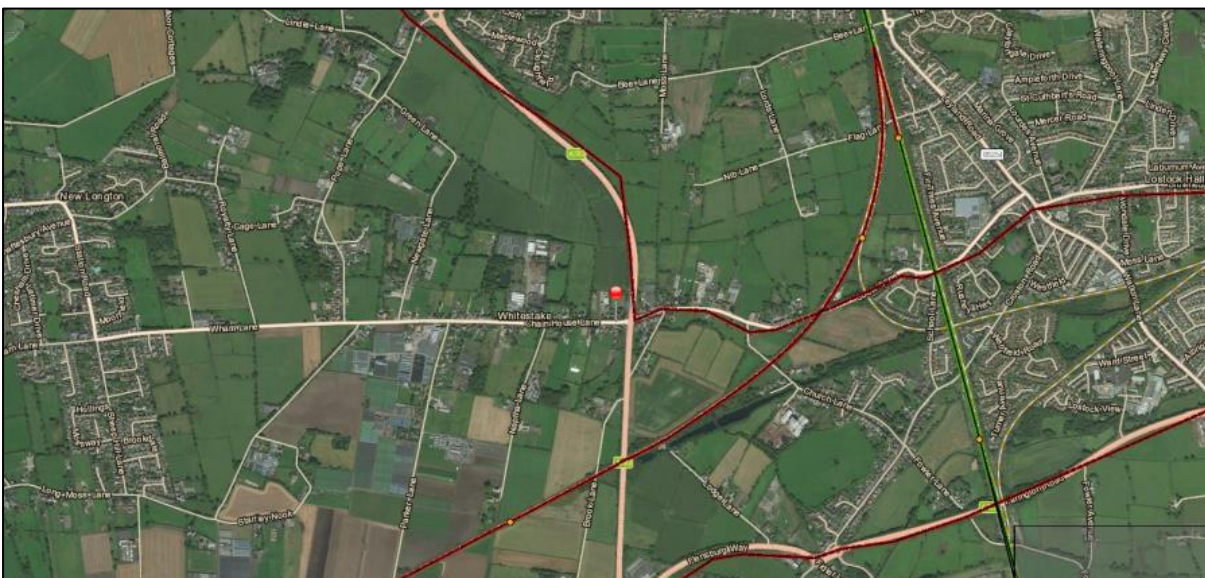


Virgin Media Infrastructure

### 2.4.3 Century Link

In addition, Century Link also owns infrastructure within the vicinity of the site and is operated under rights derived from the telecommunications act.

Infrastructure in the vicinity of the site is confined mainly to the area around the major road and rail infrastructure and can be seen in the below images. It has subsequently been confirmed that infrastructure within Penwortham Way is owned and operated by Vodafone.

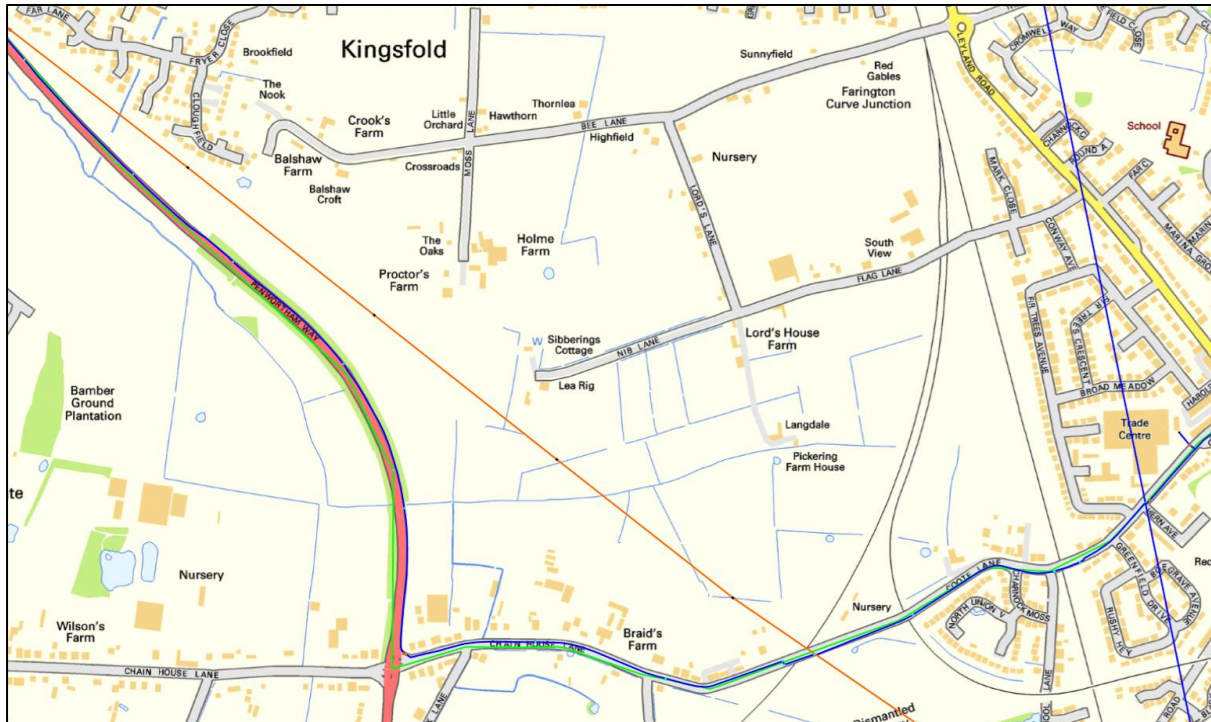


## Whole Site

### 2.4.4 Vodafone

In addition, Vodafone also owns infrastructure within the vicinity of the site and is operated under rights derived from the telecommunications act.

Infrastructure in the vicinity of the site is confined mainly to existing highway to the west and south of the site.....

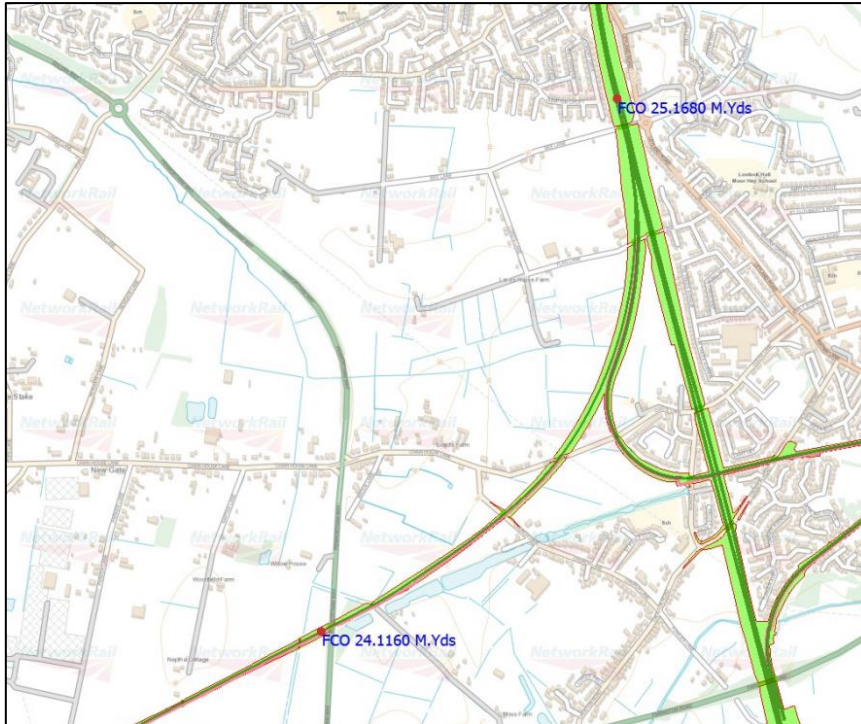


Vodafone Infrastructure

### 2.5 Network Rail Infrastructure

Network Rail owns infrastructure within the vicinity of the site and is utilised as part of its railway assets.

Specific infrastructure records have not been provided; however, the below plans show the Network Rail land ownership along the boundary of the site. Network rail infrastructure will be limited to areas within its ownership. Records can be provided for specific areas should this information be required.



Network Rail Land



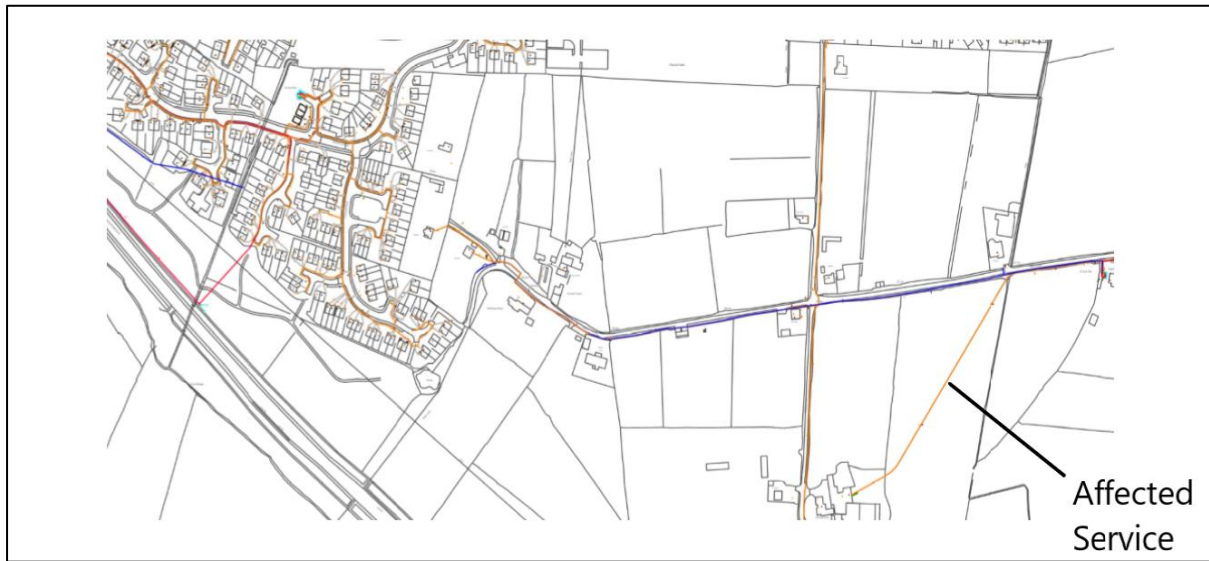
### 3 Development Impact on Existing Infrastructure

#### 3.1 Electricity

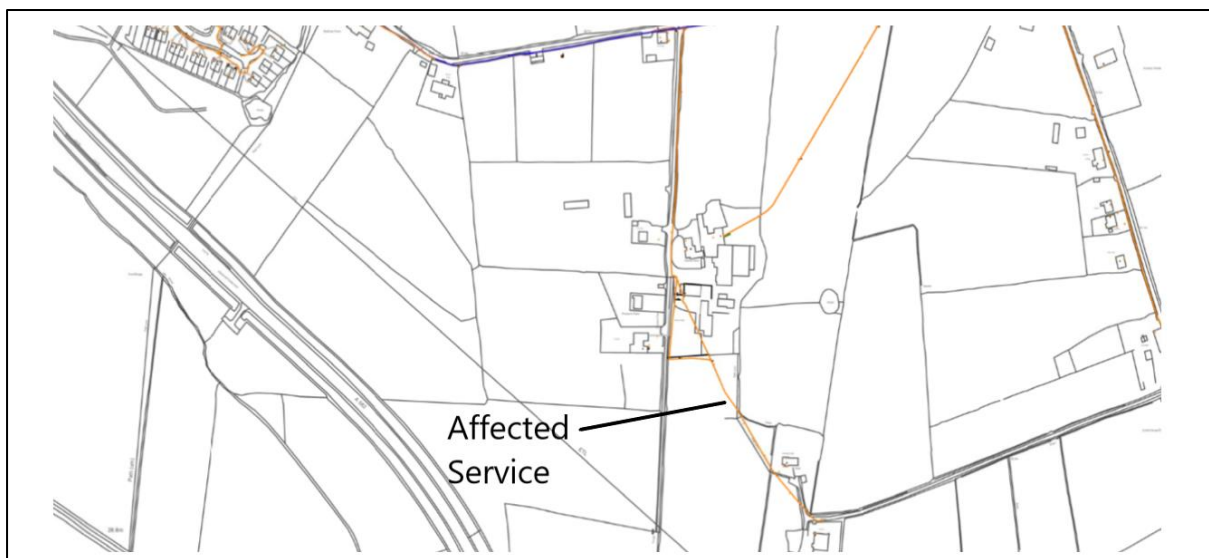
##### 3.1.1 Electricity Northwest

Electricity Northwest Low Voltage (415V), High Voltage (6,600V) and High Voltage (11,000V) infrastructure crossing the site will be affected by the proposed development. The majority of the existing infrastructure within the site is located within the adopted and private highway which will be retained as part of the development and will therefore be affected.

However, isolated areas of infrastructure will be affected by the proposed development and will be relocated by Electricity Northwest within the new development layout.

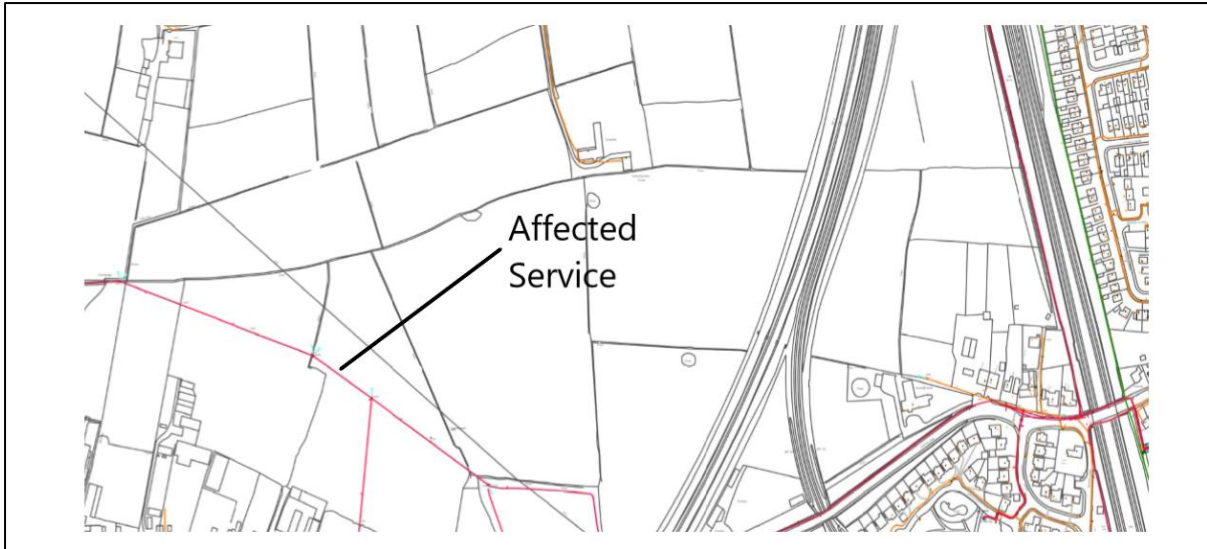


Affected Electricity Infrastructure



Affected Electricity Infrastructure





Affected Electricity Infrastructure

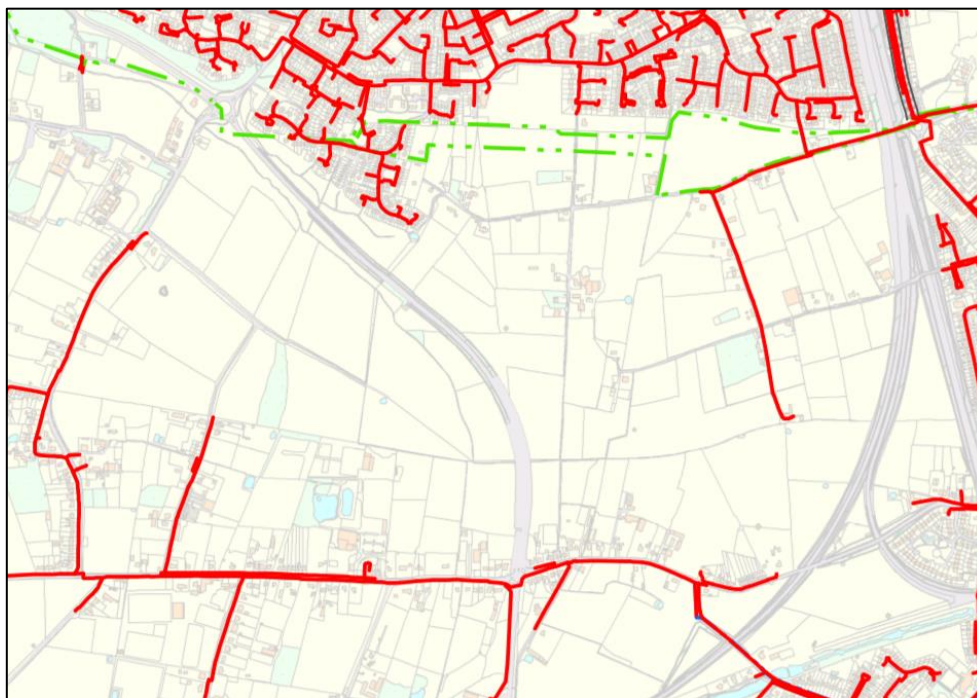
### 3.1.2 National Grid

Existing National Grid Transmission Overhead Lines will be retained and have been accommodated within the proposed development layout.

## 3.2 Gas

### 3.2.1 Cadent

Cadent Intermediate Pressure infrastructure crossing the northern area of the site will be retained and accommodated within the development proposals.



Cadent Infrastructure

Existing Low-Pressure Infrastructure is located within existing adopted and private highway and is unlikely to be affected by the proposed development. Where isolated areas are affected, diversion of infrastructure will be agreed with Cadent.

### 3.3 Water

#### 3.3.1 United Utilities

United Utilities distribution water mains infrastructure is located within existing adopted and private highway and is unlikely to be affected by the proposed development. Where isolated areas are affected, diversion of infrastructure will be agreed with United Utilities.

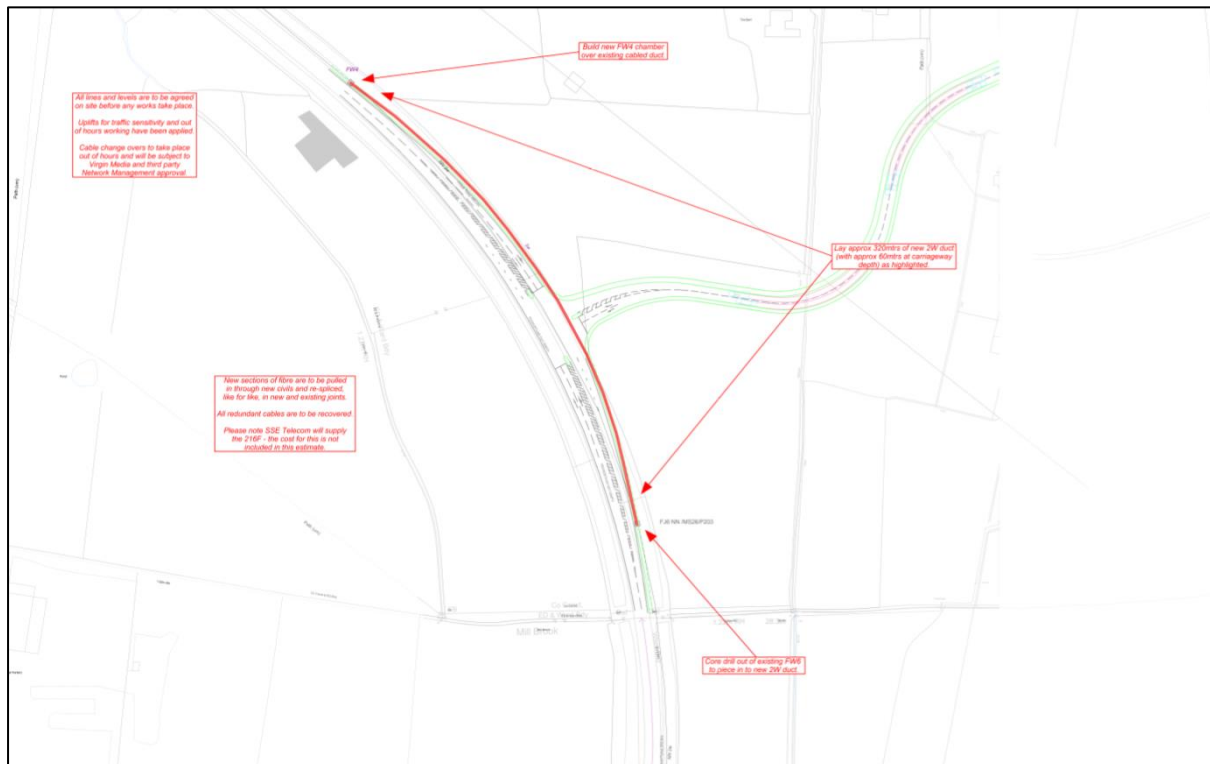
### 3.4 Telecoms

#### 3.4.1 BT Openreach

BT Openreach infrastructure is located within existing adopted and private highway and is unlikely to be affected by the proposed development. Where isolated areas are affected, diversion of infrastructure will be agreed with BT Openreach.

#### 3.4.2 Virgin Media

Virgin Media infrastructure is located within Penwortham Way and will be affected by the proposed access serving the site. Virgin Media have confirmed that their infrastructure can be located, and a draft diversion scheme can be seen below.



Draft Virgin Media Diversion

#### 3.4.3 Century Link

Century Link infrastructure will not be affected by the proposed development.

#### 3.4.4 Vodafone

Vodafone infrastructure within Penwortham Way may be affected by the proposed access serving the site but further investigation by Vodafone is required in order to confirm. If this is confirmed, Vodafone will divert their infrastructure to facilitate the proposed works.

## 4 Points of Connection

### 4.1 Introduction

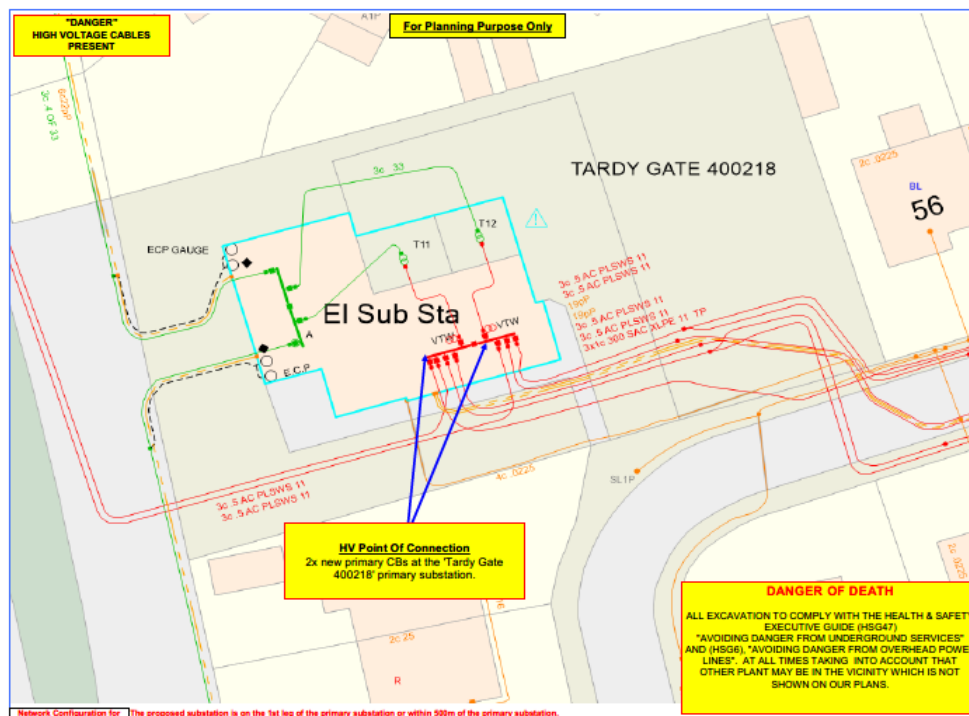
In order to confirm the available capacity within the existing utility distribution networks, it has been assumed that the majority of the development will be delivered after the introduction of the government's future homes standards and therefore the requirement for electric heating has been considered within the capacity applications. However, it is understood that Building Regulations and the Future Homes Standard policy is not fixed and may change beyond 2025. As a result capacity applications have explored a range of options including a fully electrically heated site, and alternatively capacity for 250 gas heated properties.

### 4.2 Electricity

#### 4.2.1 Full Site Point of Connection

In order to determine the capacity of the local electricity network to service the site, an application was made to Electricity Northwest for a point of connection for a total load of 4028KVA. This load is based on the highest likely demand with a fully electrically heated site and is therefore deemed to be the worst case scenario.

A response has been received confirming that the specified point of connection is from the 11,000V network at the existing primary substation on Fir Trees Avenue, approximately 400 meters from the site boundary. Upgrade works to the primary substation will be required in order to facilitate the required load. The below plan shows the location of the connection.

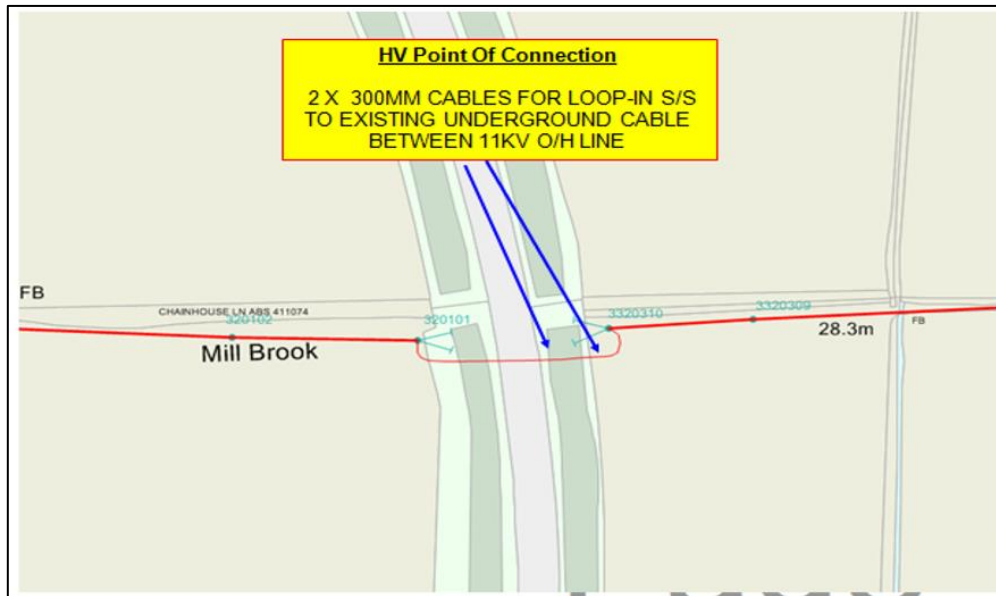


Electricity Northwest Point of Connection

#### 4.2.2 Point of Connection

In order to ensure that the site can be delivered efficiently an interim point of connection has been identified sufficient to service the first 250 proposed homes. This would allow the site to commence ahead of the delivery of the larger, full site point of connection.

A response has been received confirming that the specified point of connection is from the 11,000V network on Penwortham Way approximately 200 meters from the site boundary. The below plan shows the location of the connection.



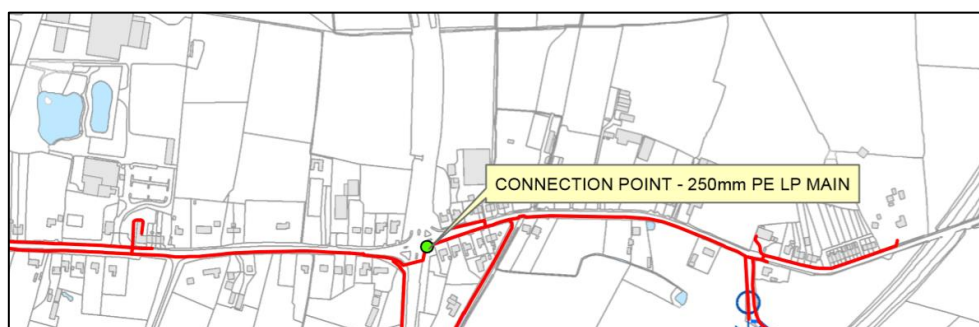
Electricity Northwest Interim Point of Connection

## 4.3 Gas

### 4.3.1 Point of Connection

In order to ensure that the first 250 dwellings of the site can be delivered, a gas point of connection has been identified, to be used in the event that gas heating is utilised for a porting of the site.

A response has been received confirming that the specified point of connection is from the low-pressure network on Penwortham Way approximately 600 meters from the site boundary. The below plan shows the location of the connection.



Cadent Gas Interim Connection

## 4.4 Water

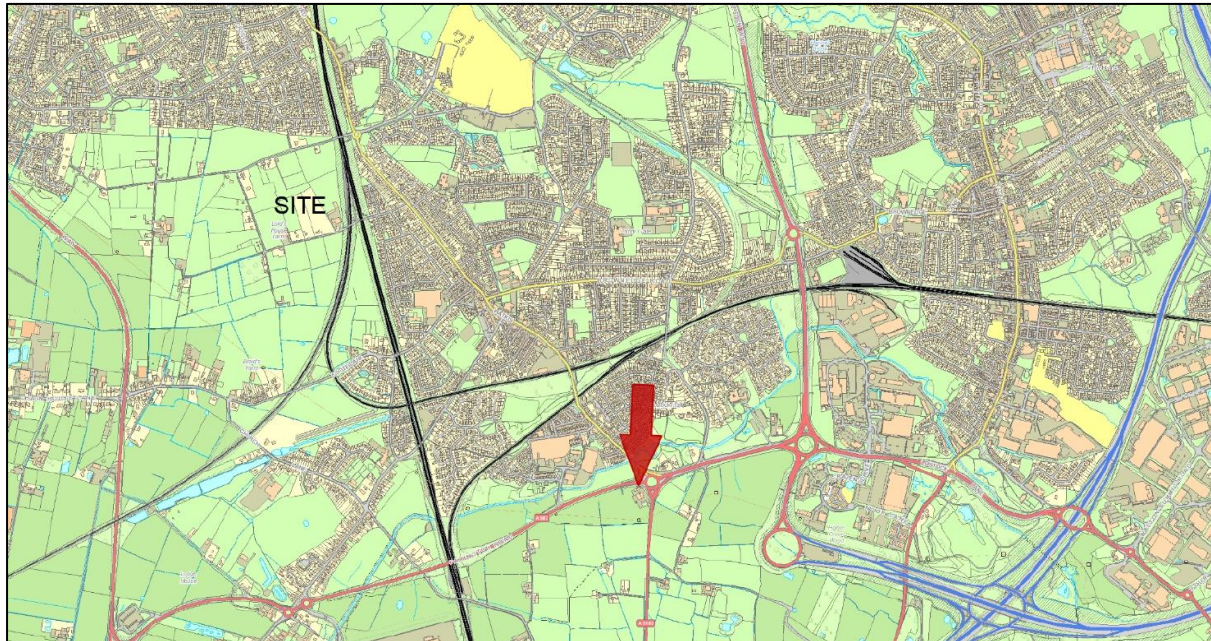
### 4.4.1 Full Site Point of Connection

In order to determine the capacity of the local water network to service the site, an application was made to United Utilities for a pre-development enquiry.

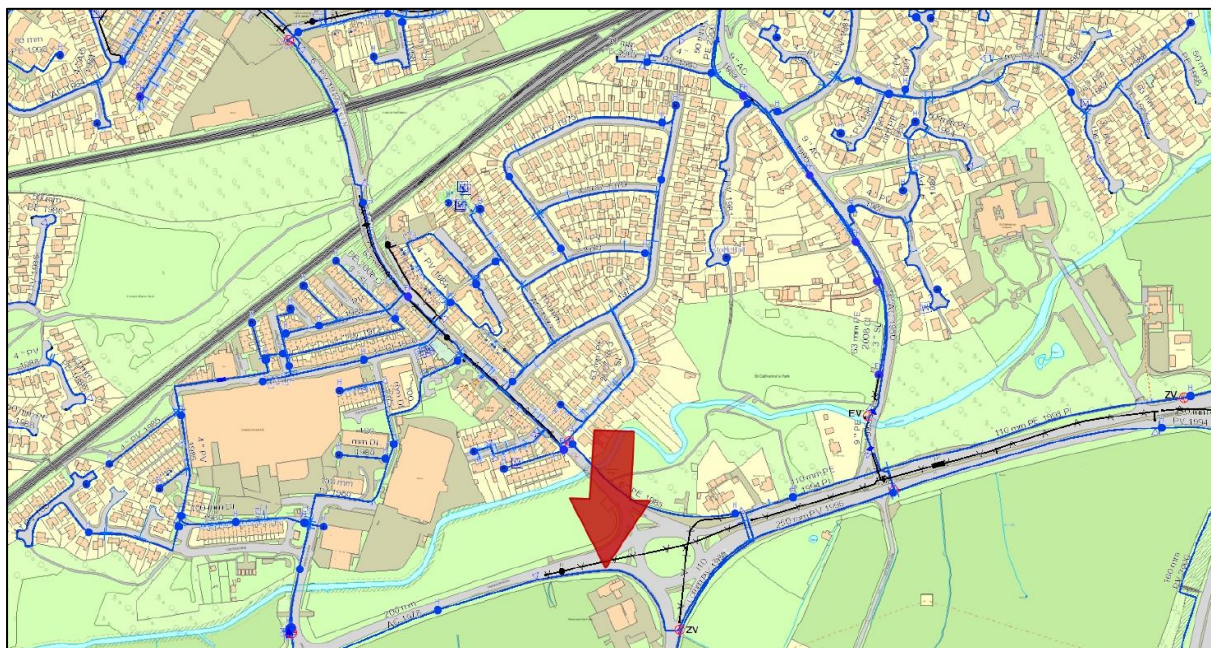
A response has been received confirming the specified point of connection is from the distribution network at Lostock Lane, approximately 2800 meters from the site entrance, however United Utilities



have acknowledged that they have a sufficiently sized main closer to the site and therefore the client will only be responsible for the cost of 900m of mains lay rather than the full 2800m. The below plan shows the location of the connection.



United Utilities Water Point of Connection



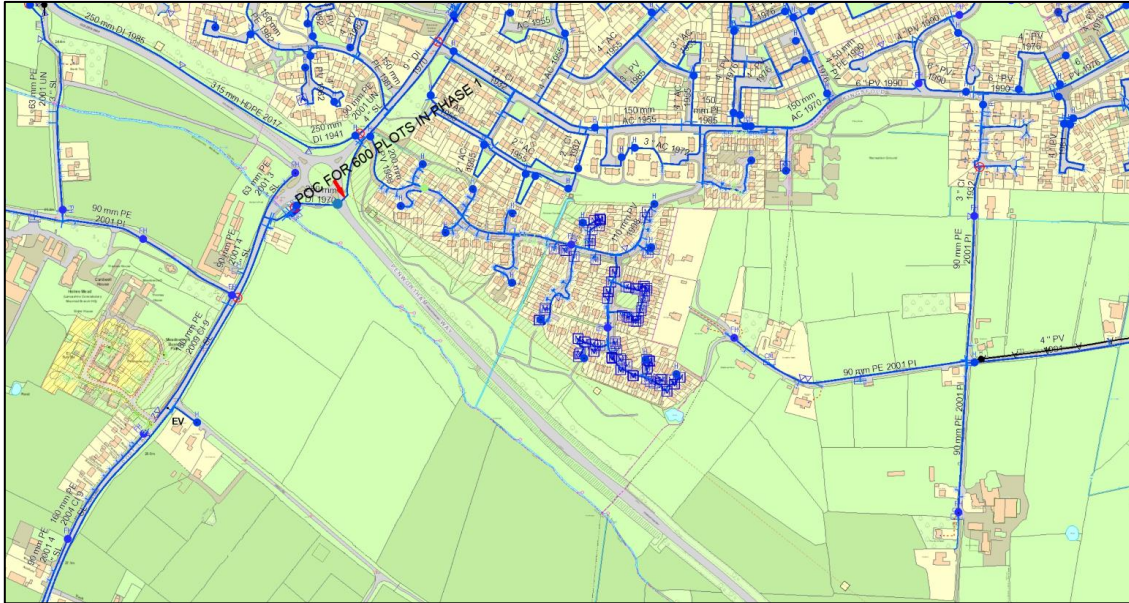
United Utilities Water Point of Connection

#### 4.4.2 Interim Connection

In order to ensure that the first phases of the site can be delivered efficiently an interim point of connection has been identified sufficient to service the first 250 proposed homes.



A response has been received confirming that the specified point of connection will be on Penwortham Way approximately 750 meters from the site boundary. The below plan shows the location of the connection.



United Utilities Water Interim Connection

#### 4.4 BT Openreach

BT Openreach will provide its fibre to the property service to the development serving all residential dwellings with superfast infrastructure.

## 5 Summary

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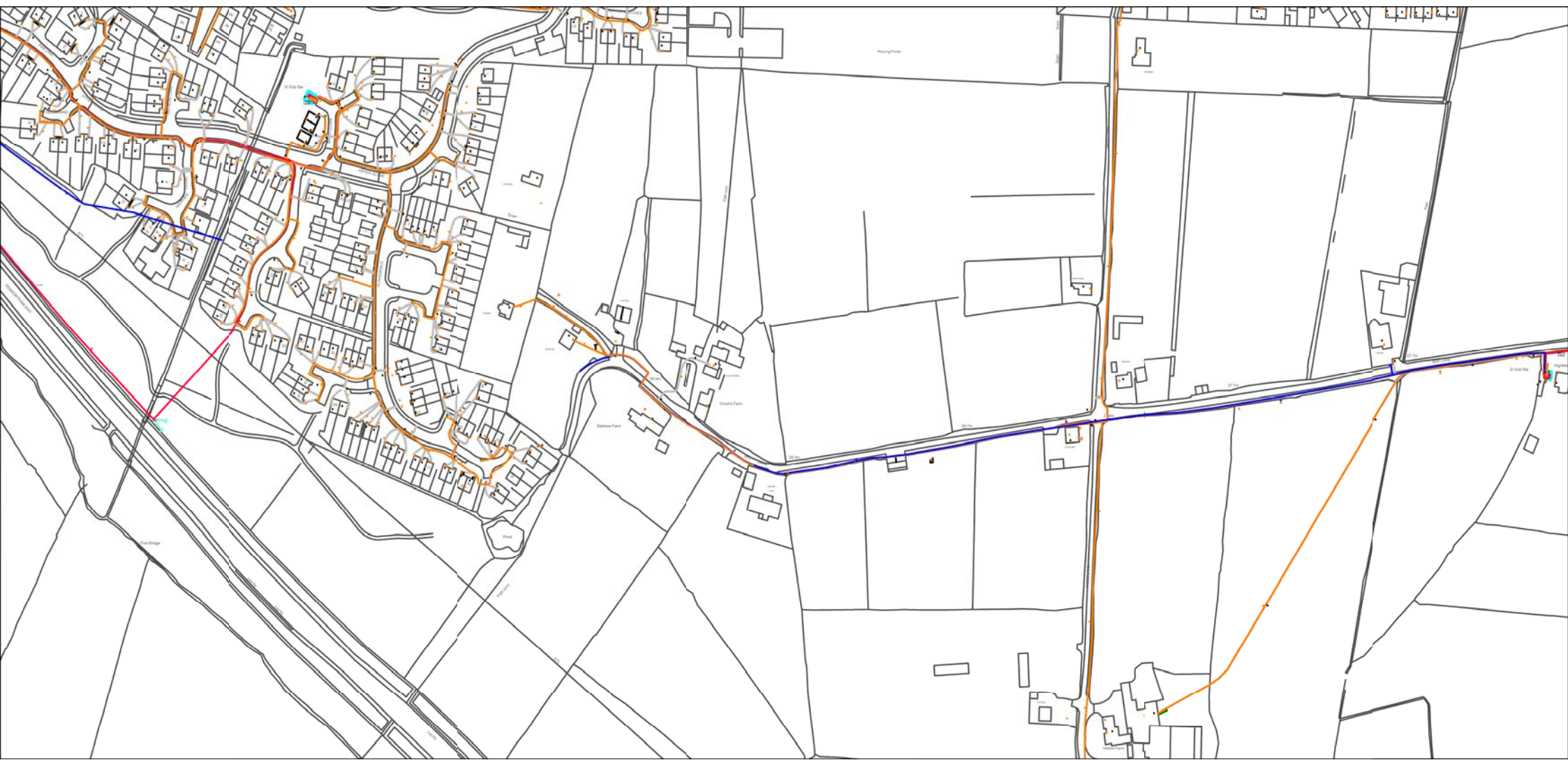
It can be concluded from the formal responses received from the host asset owners of the gas, water, and electricity infrastructure that all the main utilities are all available within the local area to serve the proposed development. These connection points are within the local road network with minimal impact on the surrounding environment.

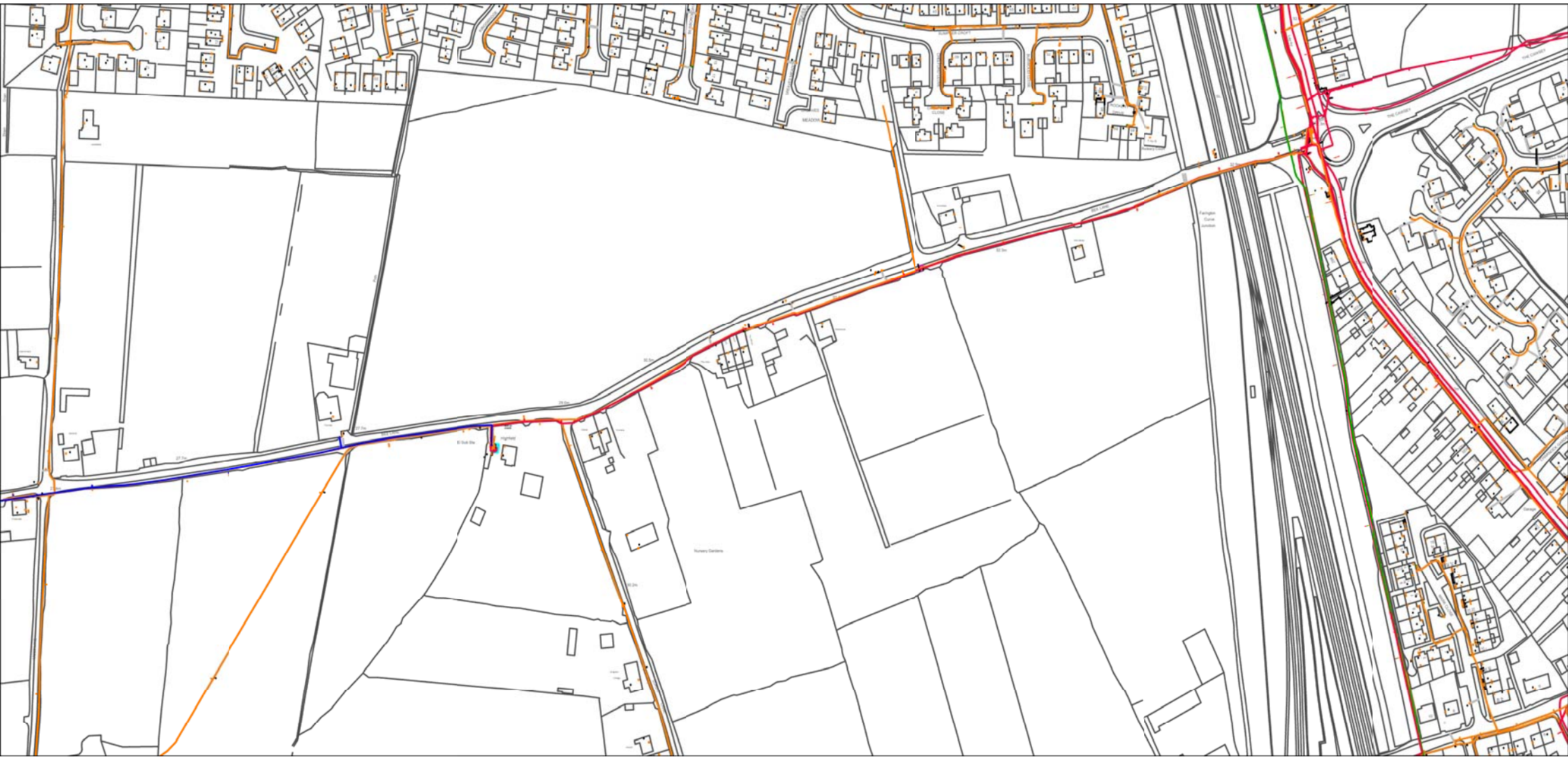
Whilst diversions may be required, these will be limited to the relocation of isolated sections of distribution network. Major infrastructure including electricity transmission overhead lines and gas intermediate have been retained within the proposed development in order to limit the impact of the development.



## APPENDIX 1 – EXISTING INFRASTRUCTURE RECORDS

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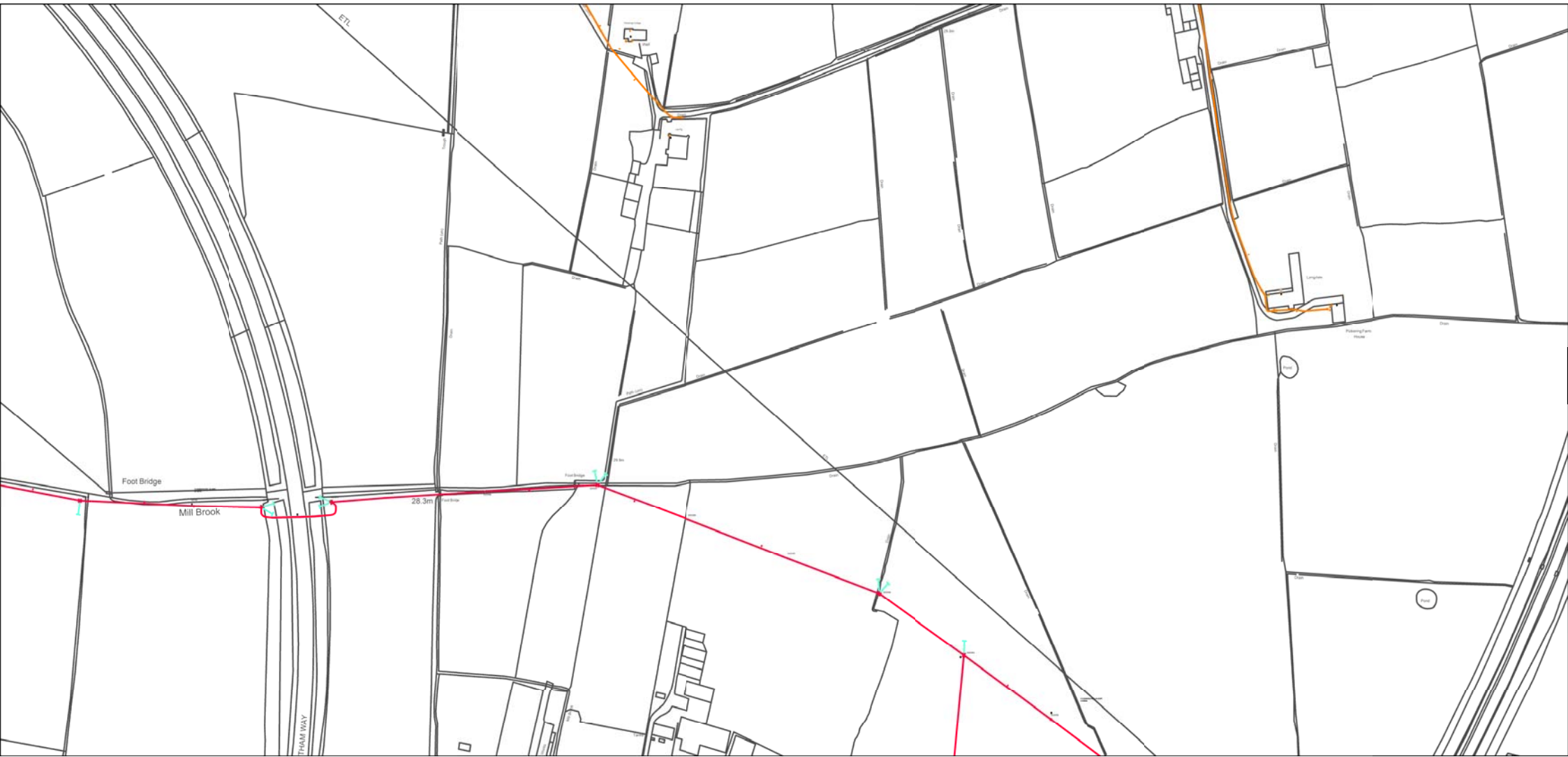






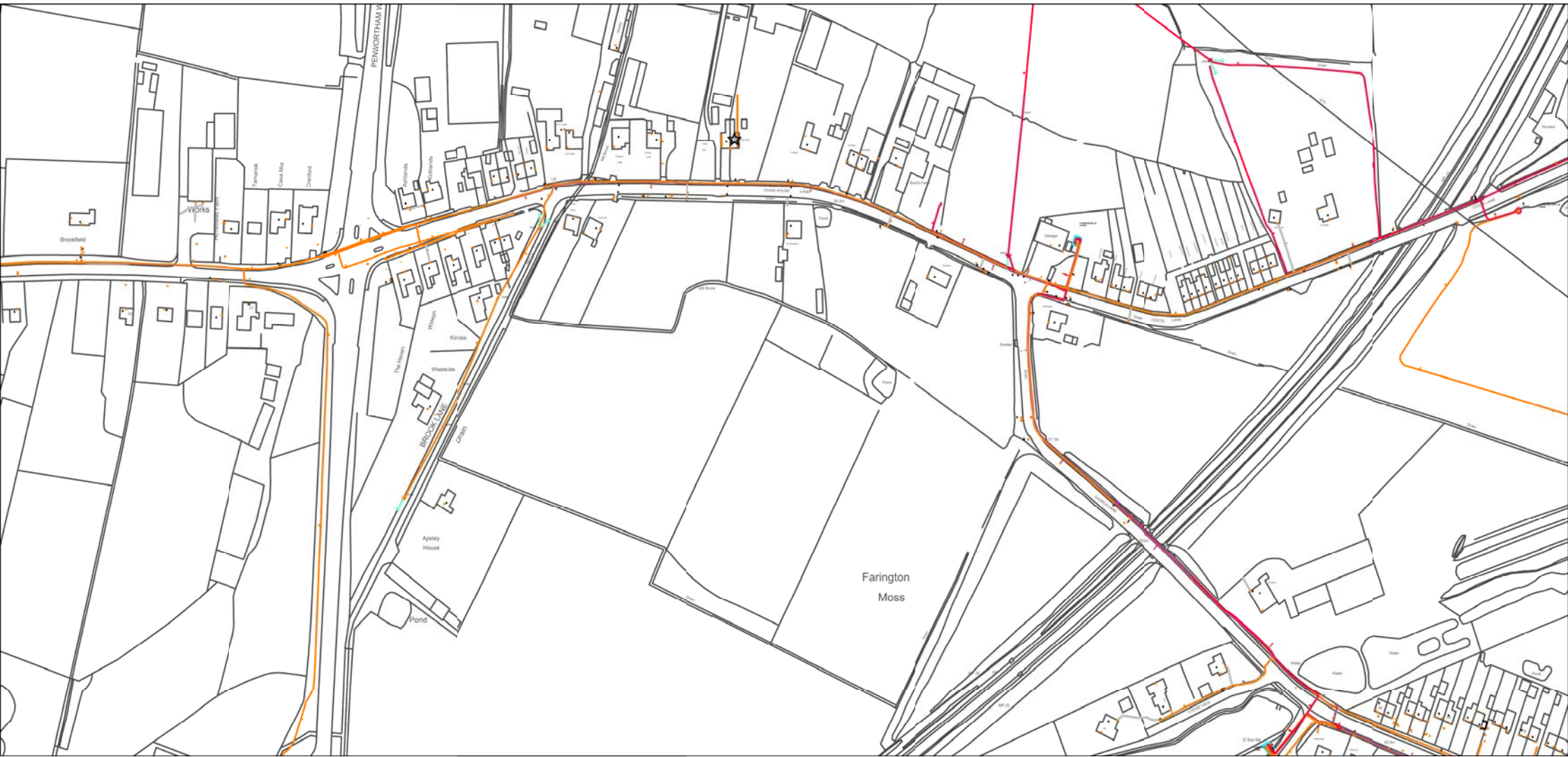




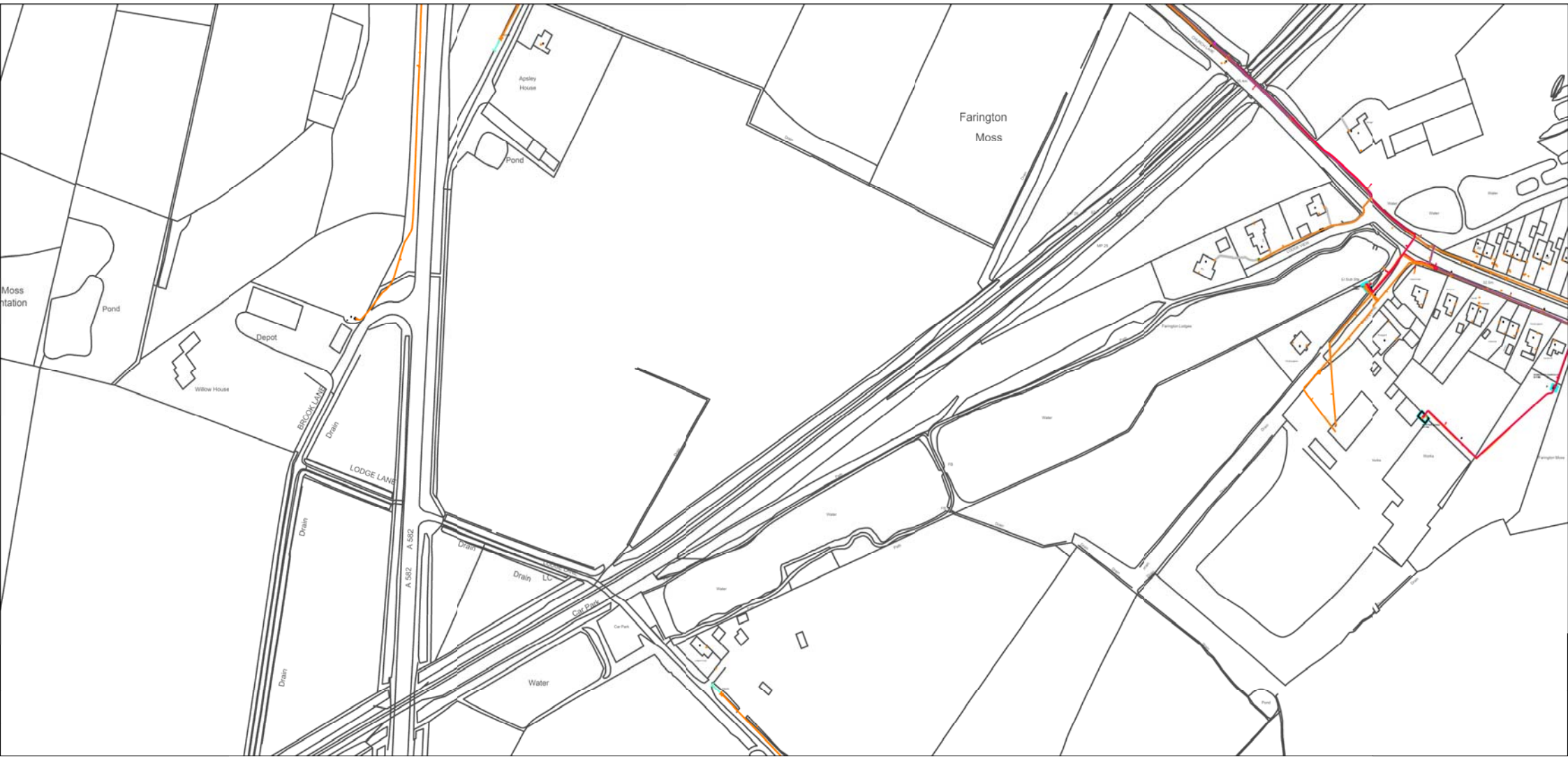




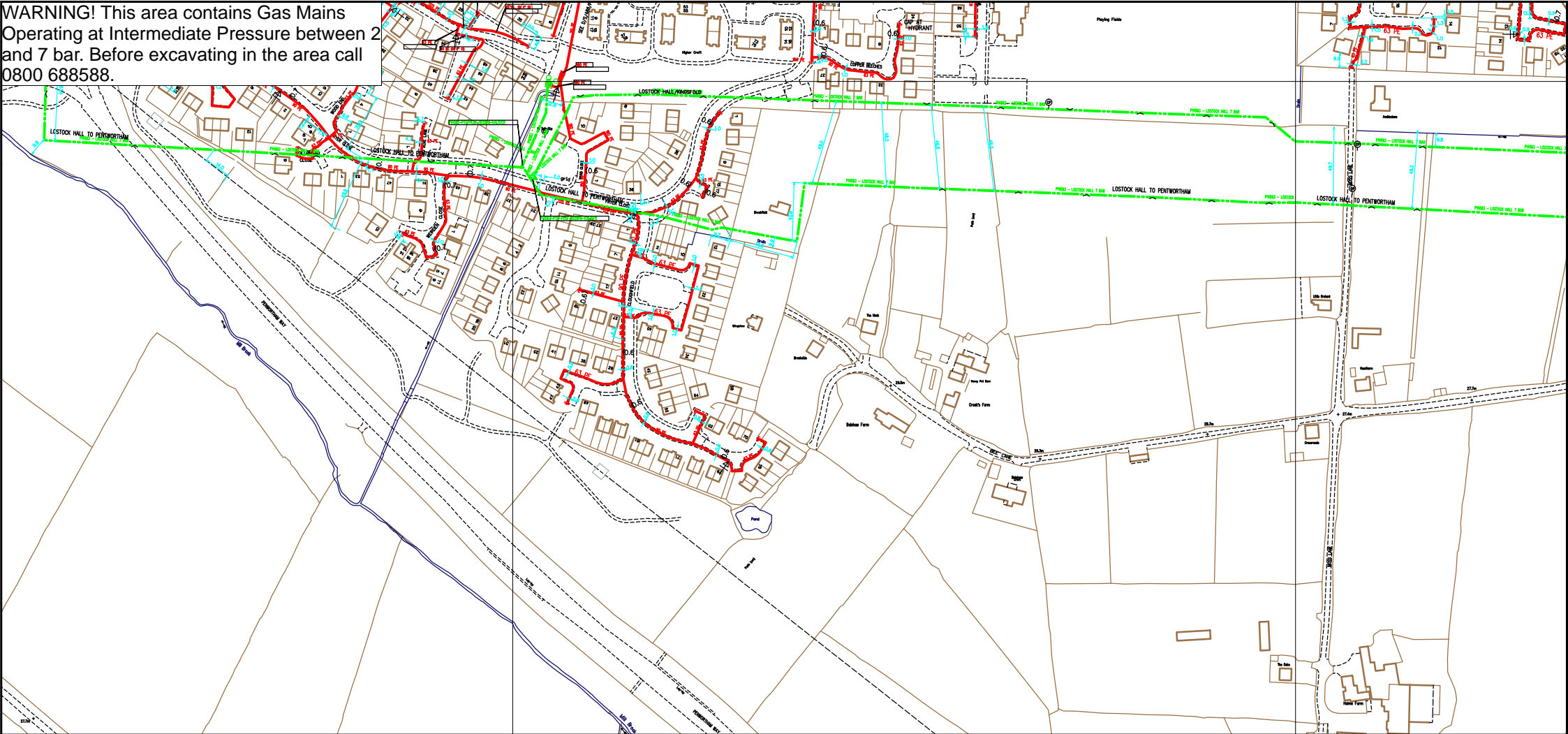








**WARNING!** This area contains Gas Mains Operating at Intermediate Pressure between 2 and 7 bar. Before excavating in the area call 0800 688588.



SCALE: Not to scale  
 USER ID: Maurice Bowden  
 DATE: 08/05/2018  
 EXTRACT DATE: 02/03/2018  
 MAP REF: SD5226  
 CENTRE: 352673, 426317

LP MAINS ————  
 MP MAINS - - - -  
 IP MAINS - · - · -  
 LHP MAINS - - - -

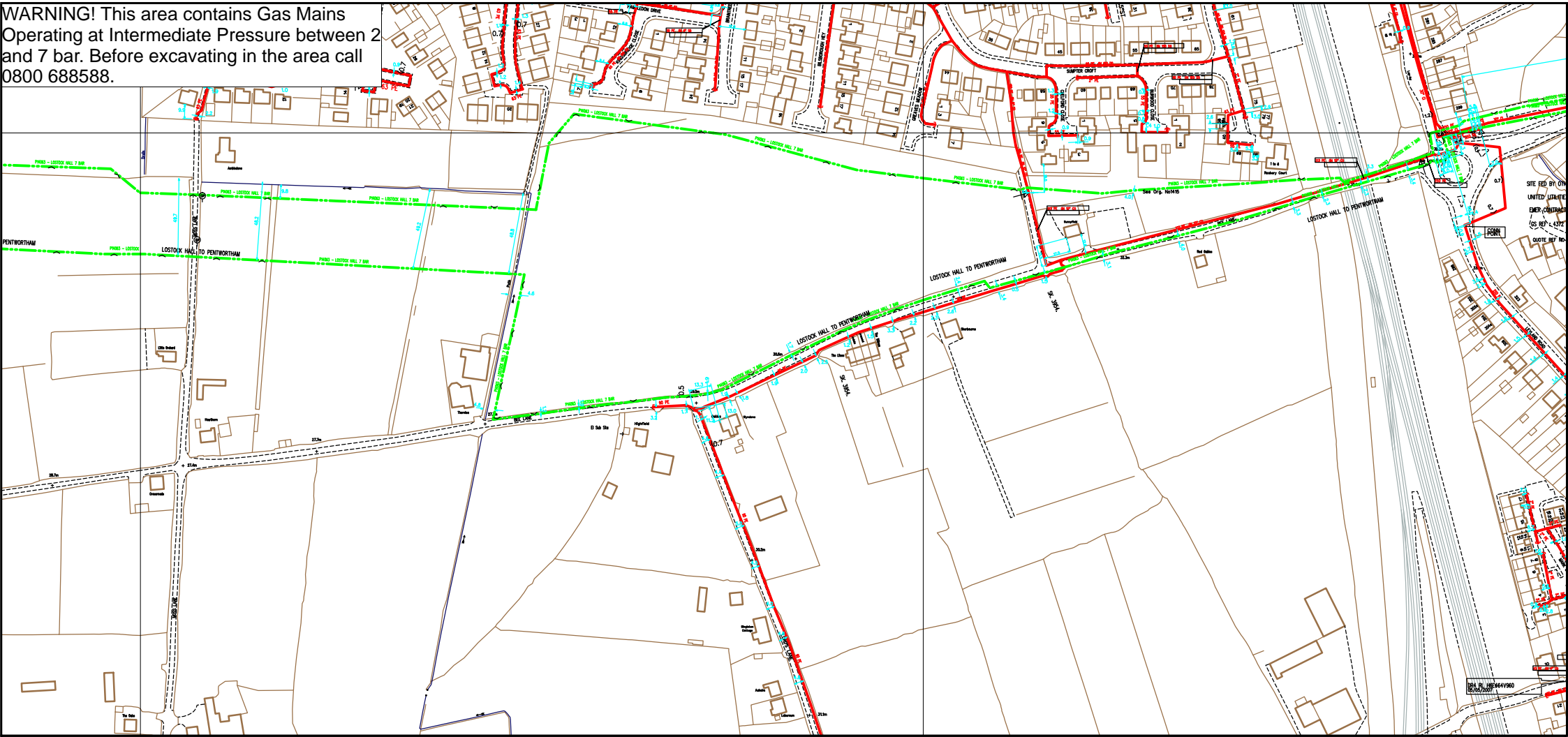
This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this 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 Cadent Gas Ltd 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.

MAPS Viewer Version 5.8.0.1  
  
 Local Machine  
  
 This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.

Some examples of Plant Items:

Valve	Depth of Cover	Syphon	Diameter Change	Material Change	Out of Standard Service

**WARNING!** This area contains Gas Mains Operating at Intermediate Pressure between 2 and 7 bar. Before excavating in the area call 0800 688588.



SCALE: Not to scale  
 USER ID: Maurice Bowden  
 DATE: 08/05/2018  
 EXTRACT DATE: 02/03/2018  
 MAP REF: SD5326  
 CENTRE: 353411, 426349

LP MAINS	
MP MAINS	
IP MAINS	
LHP MAINS	

This plan shows those pipes owned by Cadent Gas Ltd 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 Cadent Gas Ltd 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.

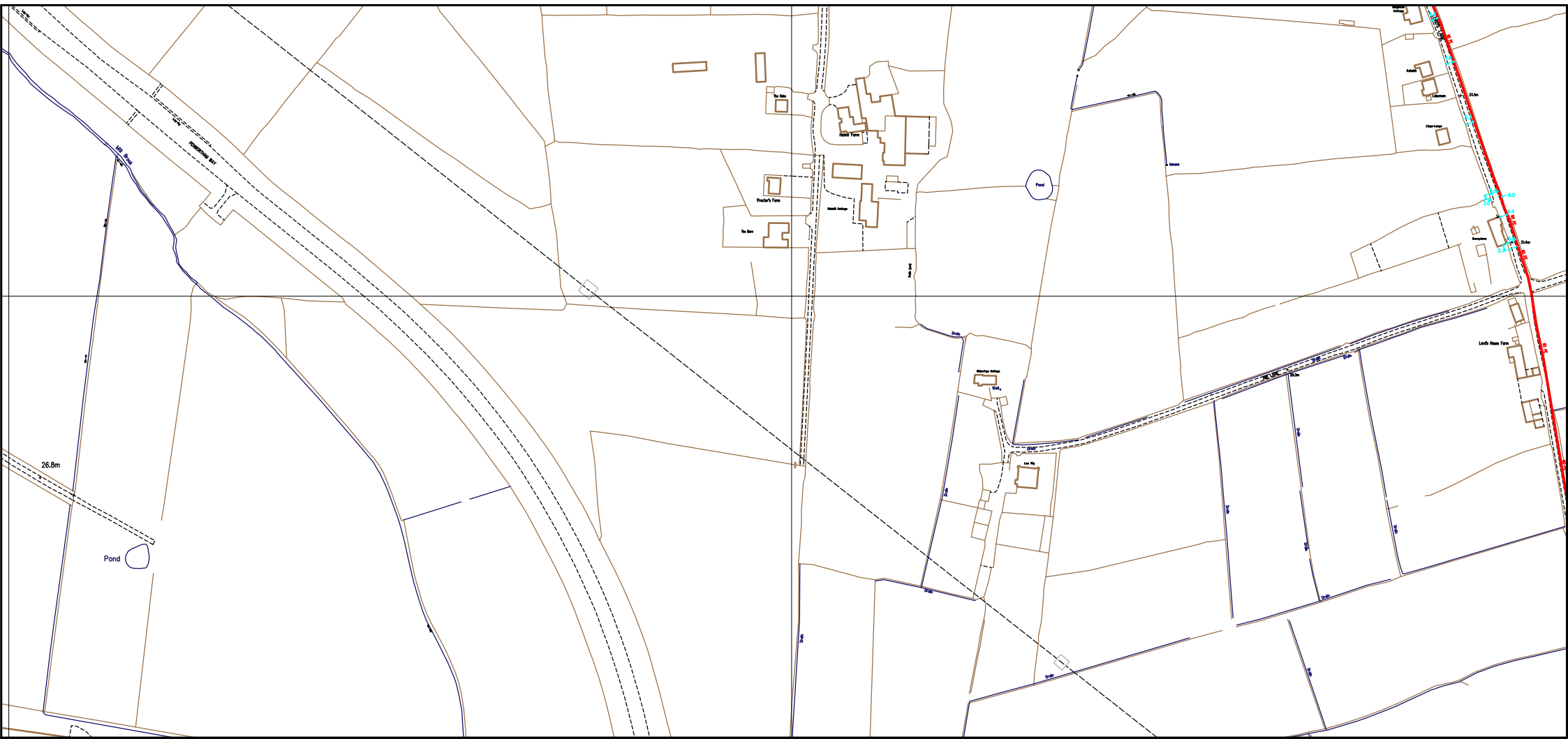
MAPS Viewer Version 5.8.0.1

Local Machine  
 This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.

Some examples of Plant Items:

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SCALE: Not to scale  
 USER ID: Maurice Bowden  
 DATE: 08/05/2018  
 EXTRACT DATE: 02/03/2018  
 MAP REF: SD5225  
 CENTRE: 352995, 425952

- LP MAINS
- MP MAINS
- IP MAINS
- LHP MAINS

This plan shows those pipes owned by Cadent Gas Ltd 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 Cadent Gas Ltd 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.

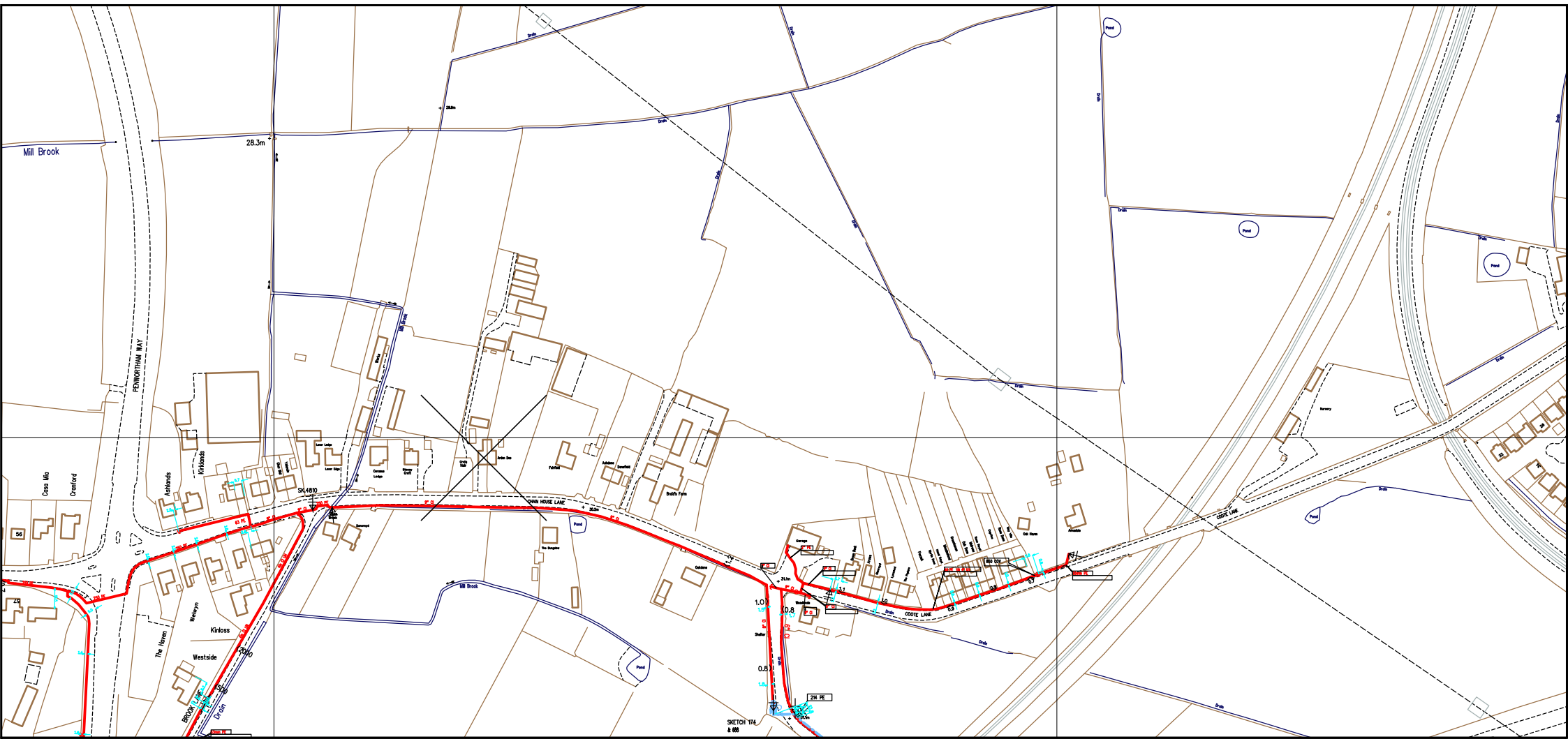
MAPS Viewer Version 5.8.0.1  
  
 Local Machine  
  
 This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationery Office. Crown Copyright Reserved.

Some examples of Plant Items:

--	--	--	--	--	--







SCALE: Not to scale  
 USER ID: Maurice Bowden  
 DATE: 08/05/2018  
 EXTRACT DATE: 02/03/2018  
 MAP REF: SD5325  
 CENTRE: 353326, 425542

- LP MAINS ———
- MP MAINS - - - - -
- IP MAINS - · - · -
- LHP MAINS - - - - -







This plan shows those pipes owned by Cadent Gas Ltd 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 Cadent Gas Ltd 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.

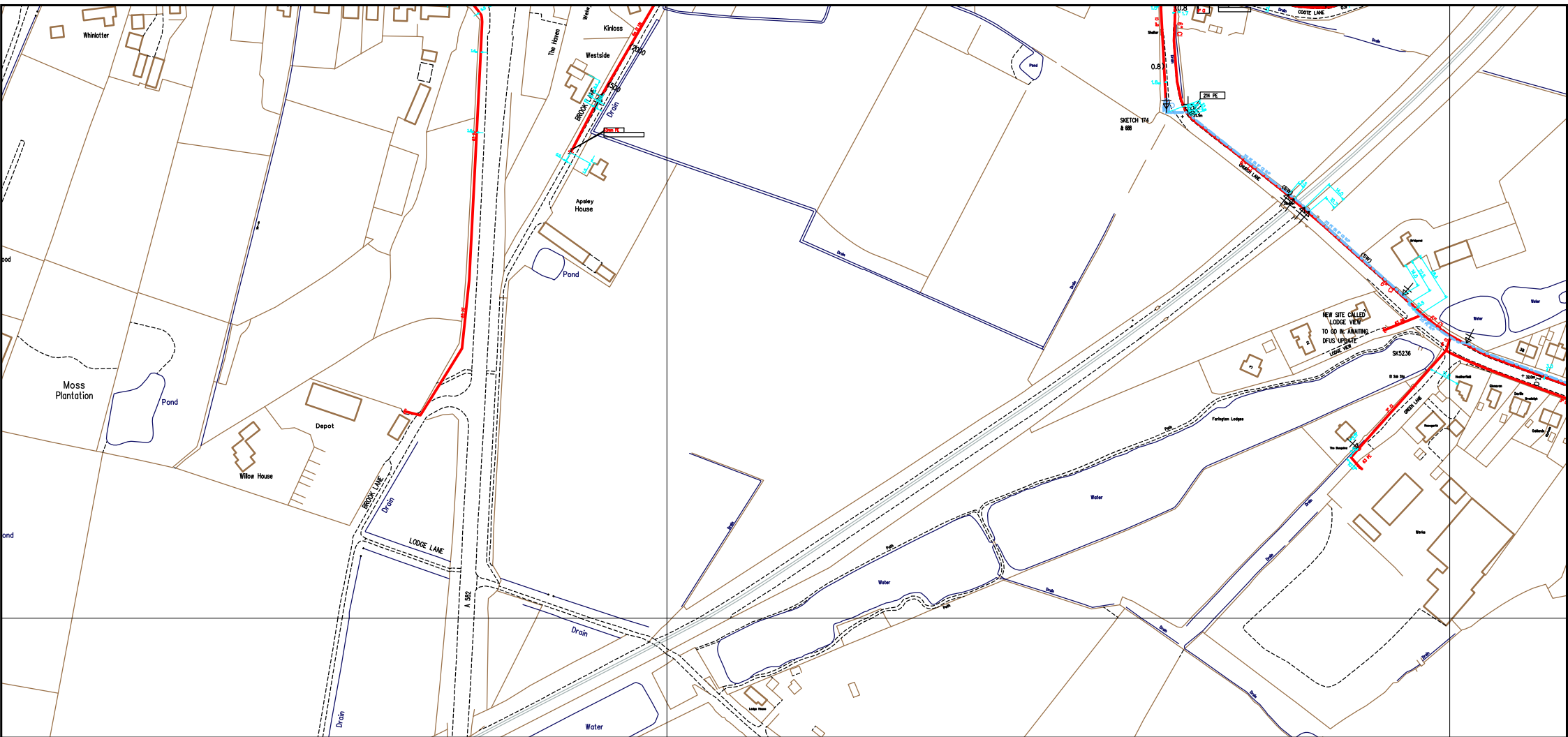
MAPS Viewer Version 5.8.0.1

Local Machine

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Some examples of Plant Items:

Valve 	Depth of Cover 	Syphon 	Diameter Change 	Material Change 	Out of Standard Service 
--	--	--	---	---	---



SCALE: Not to scale  
 USER ID: Maurice Bowden  
 DATE: 08/05/2018  
 EXTRACT DATE: 02/03/2018  
 MAP REF: SD5325  
 CENTRE: 353075, 425158

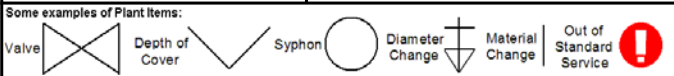
- LP MAINS ———
- MP MAINS - - - - -
- IP MAINS - - - - -
- LHP MAINS - - - - -

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MAPS Viewer Version 5.8.0.1

Local Machine

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TDS Northern

Northern House  
3A Kennerleys Lane,  
Wilmslow,  
SK9 5EQ

FAO:

How to contact us:

United Utilities Water Limited  
Property Searches  
Haweswater House  
Lingley Mere Business Park  
Great Sankey  
Warrington  
WA5 3LP

Telephone: 0370 7510101

E-mail: [propertysearches@uuplc.co.uk](mailto:propertysearches@uuplc.co.uk)

Your Ref: Pickerings Farm  
Our Ref: UUPS-ORD-27490  
Date: 27/04/2018

Dear Sirs

**Location: 36 CHAIN HOUSE LANE, WHITESTAKE, PRESTON, PR4 4LD**

I acknowledge with thanks your request dated 26/04/2018 for information on the location of our services.

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

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

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

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,



Karen McCormack  
Property Searches Manager

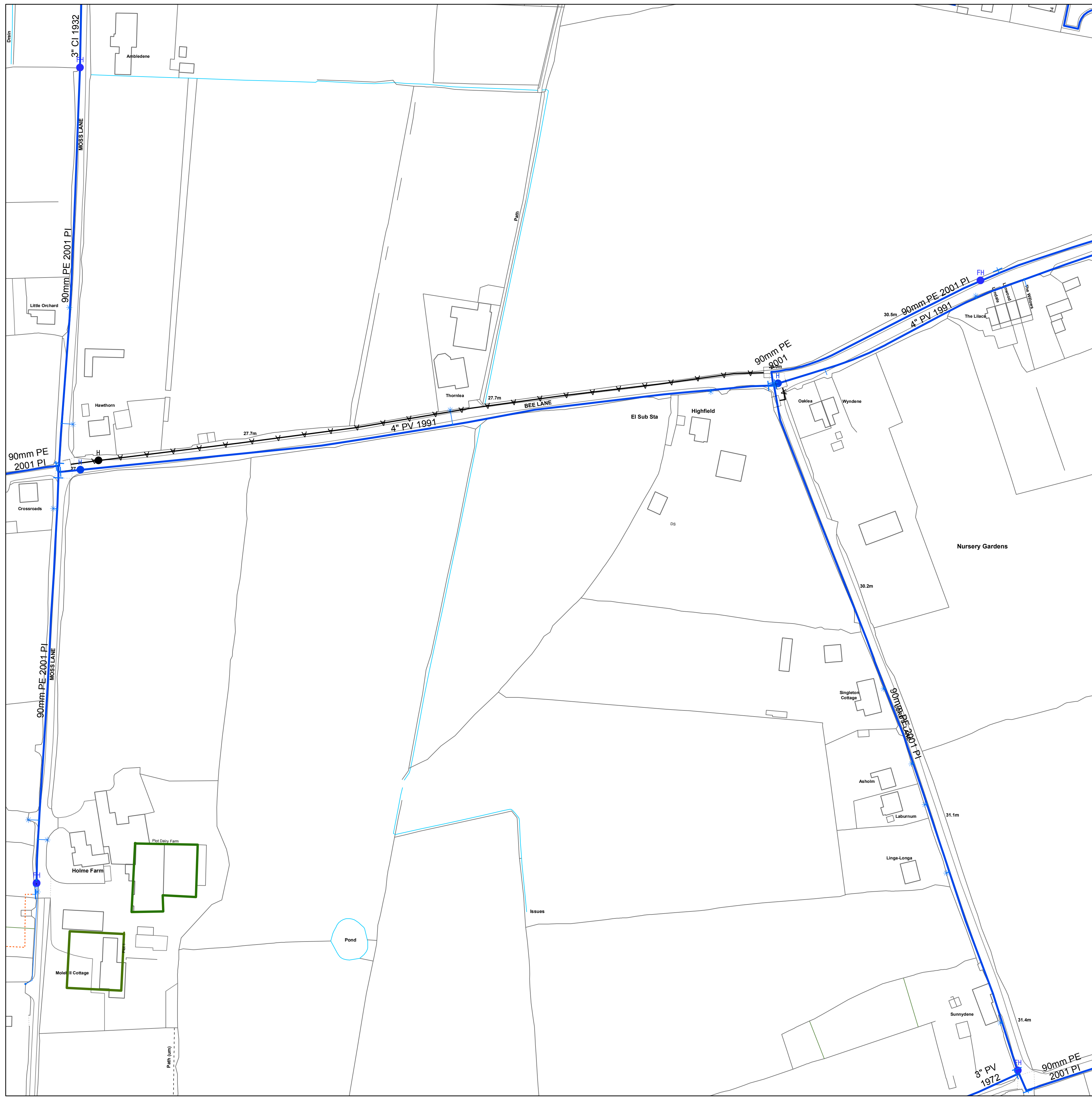


## **TERMS AND CONDITIONS - WASTERWATER AND WATER DISTRIBUTION PLANS**

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:**

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.



**Legend**

**PIPE WORK**

- |             |                 |   |
|-------------|-----------------|---|
| <b>Live</b> | <b>Proposed</b> | Trunk Main - PressurisedMain                      |
|             |                 | Raw Water Aqueduct - PressurisedMain              |
|             |                 | Raw Water Aqueduct - GravityMain                  |
|             |                 | LDTM Raw Water Distribution - PressurisedMain     |
|             |                 | LDTM Raw Water Distribution - GravityMain         |
|             |                 | LDTM Treated Water Distribution - PressurisedMain |
|             |                 | LDTM Treated Water Distribution - GravityMain     |
|             |                 | Private Pipe - LateralLine                        |
|             |                 | Distribution Main - PressurisedMain               |
|             |                 | Comms Pipe - LateralLine                          |
|             |                 | Concessionary Service - LateralLine               |

**ABANDONED PIPE**

- |  |                                 |
|--|---------------------------------|
|  | Trunk Main                      |
|  | Raw Water Aqueduct              |
|  | LDTM Raw Water Distribution     |
|  | LDTM Treated Water Distribution |
|  | Private Pipe                    |
|  | Distribution Main               |
|  | Comms Pipe                      |
|  | Concessionary Service           |

**NODES/ FURNITURE**

**Live Proposed**

- |  |  |                           |
|--|--|---------------------------|
|  |  | End Cap                   |
|  |  | CC Valve                  |
|  |  | AC Valve                  |
|  |  | Air Valve                 |
|  |  | Sluice Valve              |
|  |  | Non Return Valve          |
|  |  | Pressure Management Valve |
|  |  | Change of Char            |
|  |  | Anode                     |
|  |  | Chlorination Point        |
|  |  | De Chlorination Point     |
|  |  | Bore Hole                 |
|  |  | Inlet Point               |
|  |  | Bulk Supply Point         |
|  |  | Fire Hydrant              |
|  |  | Hydrant                   |
|  |  | Private Fire Hydrant      |
|  |  | Pump                      |
|  |  | Site Termination          |
|  |  | Service Start             |
|  |  | Service End               |

**Property Types**

**Live Proposed**

- |  |  |                         |
|--|--|-------------------------|
|  |  | Condition Report        |
|  |  | Pipe Bridges            |
|  |  | Tunnels (non carrier)   |
|  |  | Pumping Station         |
|  |  | Water Treatment Works   |
|  |  | Private Treatment Works |
|  |  | Valve House             |
|  |  | Water Tower             |
|  |  | Service Reservoir       |
|  |  | Supply Reservoir        |
|  |  | Abstraction Point       |
|  |  | Domestic meter          |
|  |  | Commercial meter        |
|  |  | Telemetry Outstation    |

**Material Types**

- |                    |                 |           |
|--------------------|-----------------|-----------|
| AC ASBESTOS        | CEMENT          | OT OTHERS |
| CI CAST IRON       | PB LEAD         |           |
| CU COPPER          | PV uPVC         |           |
| CO CONCRETE        | SI SPUN IRON    |           |
| DI DUCTILE IRON    | ST STEEL        |           |
| GI GALVANISED IRON | UN UNKNOWN      |           |
| GR GREY IRON       | PE POLYETHYLENE |           |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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OS Sheet No: SD5326SW

Scale: 1: 1250

Date: 27/04/2018

OS Sheet No: SD5326SW

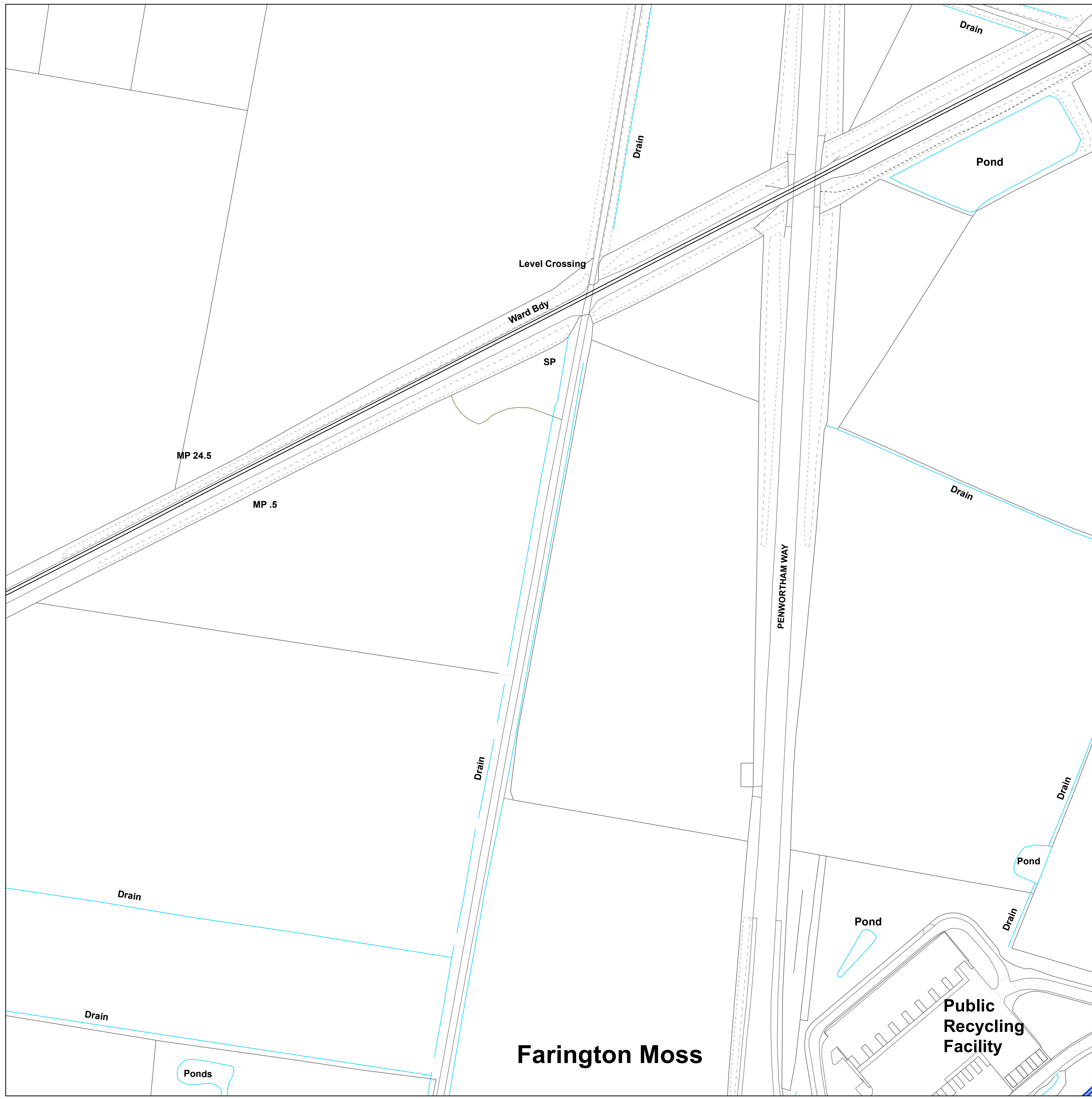
Printed By: Property Searches

Scale: 1: 1250 Date: 27/04/2018



WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |   |   |   |
|---|---|---|
| Live                                      | Proposed  | Trunk Main - PressurisedMain                  |
| Raw Water Aqueduct - PressurisedMain      | Raw Water Aqueduct - GravityMain                  | LDTM Raw Water Distribution - PressurisedMain |
| LDTM Raw Water Distribution - GravityMain | LDTM Treated Water Distribution - PressurisedMain | LDTM Treated Water Distribution - GravityMain |
| Private Pipe - LateralLine                | Distribution Main - PressurisedMain               | Comms Pipe - LateralLine                      |
| Concessionary Service - LateralLine       |   |   |

**ABANDONED PIPE**

- |            |                    |                             |                                 |              |                   |            |                       |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|
| Trunk Main | Raw Water Aqueduct | LDTM Raw Water Distribution | LDTM Treated Water Distribution | Private Pipe | Distribution Main | Comms Pipe | Concessionary Service |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|

**NODES/ FURNITURE**

- |                       |                  |                           |
|-----------------------|------------------|---------------------------|
| Live                  | Proposed         | End Cap                   |
| CC Valve              | AC Valve         | Air Valve                 |
| Sluice Valve          | Non Return Valve | Pressure Management Valve |
| Change of Char        | Anode            | Chlorination Point        |
| De Chlorination Point | Bore Hole        | Inlet Point               |
| Bulk Supply Point     | Fire Hydrant     | Hydrant                   |
| Private Fire Hydrant  | Pump             | Site Termination          |
| Service Start         | Service End      |                           |

**Property Types**

- |                       |                         |                  |
|-----------------------|-------------------------|------------------|
| Live                  | Proposed                | Condition Report |
| Pipe Bridges          | Tunnels (non carrier)   | Pumping Station  |
| Water Treatment Works | Private Treatment Works | Valve House      |
| Water Tower           | Service Reservoir       | Supply Reservoir |
| Abstraction Point     | Domestic meter          | Commercial meter |
| Telemetry Outstation  |                         |                  |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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OS Sheet No: SD5224NE

Scale: 1: 1250

Date: 27/04/2018

OS Sheet No: SD5224NE

Printed By: Property Searches

Scale: 1: 1250 Date: 27/04/2018



**WATER MAIN RECORDS**





**Legend**

**PIPE WORK**

- | Live | Proposed |   |
|------|----------|---|
|      |          | Trunk Main - PressurisedMain                      |
|      |          | Raw Water Aqueduct - PressurisedMain              |
|      |          | Raw Water Aqueduct - GravityMain                  |
|      |          | LDTM Raw Water Distribution - PressurisedMain     |
|      |          | LDTM Raw Water Distribution - GravityMain         |
|      |          | LDTM Treated Water Distribution - PressurisedMain |
|      |          | LDTM Treated Water Distribution - GravityMain     |
|      |          | Private Pipe - LateralLine                        |
|      |          | Distribution Main - PressurisedMain               |
|      |          | Comms Pipe - LateralLine                          |
|      |          | Concessionary Service - LateralLine               |

**ABANDONED PIPE**

- |  |                                 |
|--|---------------------------------|
|  | Trunk Main                      |
|  | Raw Water Aqueduct              |
|  | LDTM Raw Water Distribution     |
|  | LDTM Treated Water Distribution |
|  | Private Pipe                    |
|  | Distribution Main               |
|  | Comms Pipe                      |
|  | Concessionary Service           |

**NODES/ FURNITURE**

- | Live | Proposed |                           |
|------|----------|---------------------------|
|      |          | End Cap                   |
|      |          | CC Valve                  |
|      |          | AC Valve                  |
|      |          | Air Valve                 |
|      |          | Sluice Valve              |
|      |          | Non Return Valve          |
|      |          | Pressure Management Valve |
|      |          | Change of Char            |
|      |          | Anode                     |
|      |          | Chlorination Point        |
|      |          | De Chlorination Point     |
|      |          | Bore Hole                 |
|      |          | Inlet Point               |
|      |          | Bulk Supply Point         |
|      |          | Fire Hydrant              |
|      |          | Hydrant                   |
|      |          | Private Fire Hydrant      |
|      |          | Pump                      |
|      |          | Site Termination          |
|      |          | Service Start             |
|      |          | Service End               |

**Property Types**

- | Live | Proposed |                         |
|------|----------|-------------------------|
|      |          | Condition Report        |
|      |          | Pipe Bridges            |
|      |          | Tunnels (non carrier)   |
|      |          | Pumping Station         |
|      |          | Water Treatment Works   |
|      |          | Private Treatment Works |
|      |          | Valve House             |
|      |          | Water Tower             |
|      |          | Service Reservoir       |
|      |          | Supply Reservoir        |
|      |          | Abstraction Point       |
|      |          | Domestic meter          |
|      |          | Commercial meter        |
|      |          | Telemetry Outstation    |

**Material Types**

- |    |                 |    |              |
|----|-----------------|----|--------------|
| AC | ASBESTOS CEMENT | OT | OTHERS       |
| CI | CAST IRON       | PB | LEAD         |
| CU | COPPER          | PV | uPVC         |
| CO | CONCRETE        | SI | SPUN IRON    |
| DI | DUCTILE IRON    | ST | STEEL        |
| GI | GALVANISED IRON | UN | UNKNOWN      |
| GR | GREY IRON       | PE | POLYETHYLENE |

**Lining Types**

- |    |                |     |             |
|----|----------------|-----|-------------|
| CL | CEMENT LINING  | ERL | EPOXY RESIN |
| TB | TAR OR BITUMEN |     |             |

**Insertion Types**

- |    |                      |    |            |
|----|----------------------|----|------------|
| DD | DIE DRAWN            | MO | MOLING     |
| DR | DIRECTIONAL DRILLING | PI | PIPELINE   |
|    |                      | SL | SLIP LINED |

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Date: 27/04/2018

OS Sheet No: SD5225NE

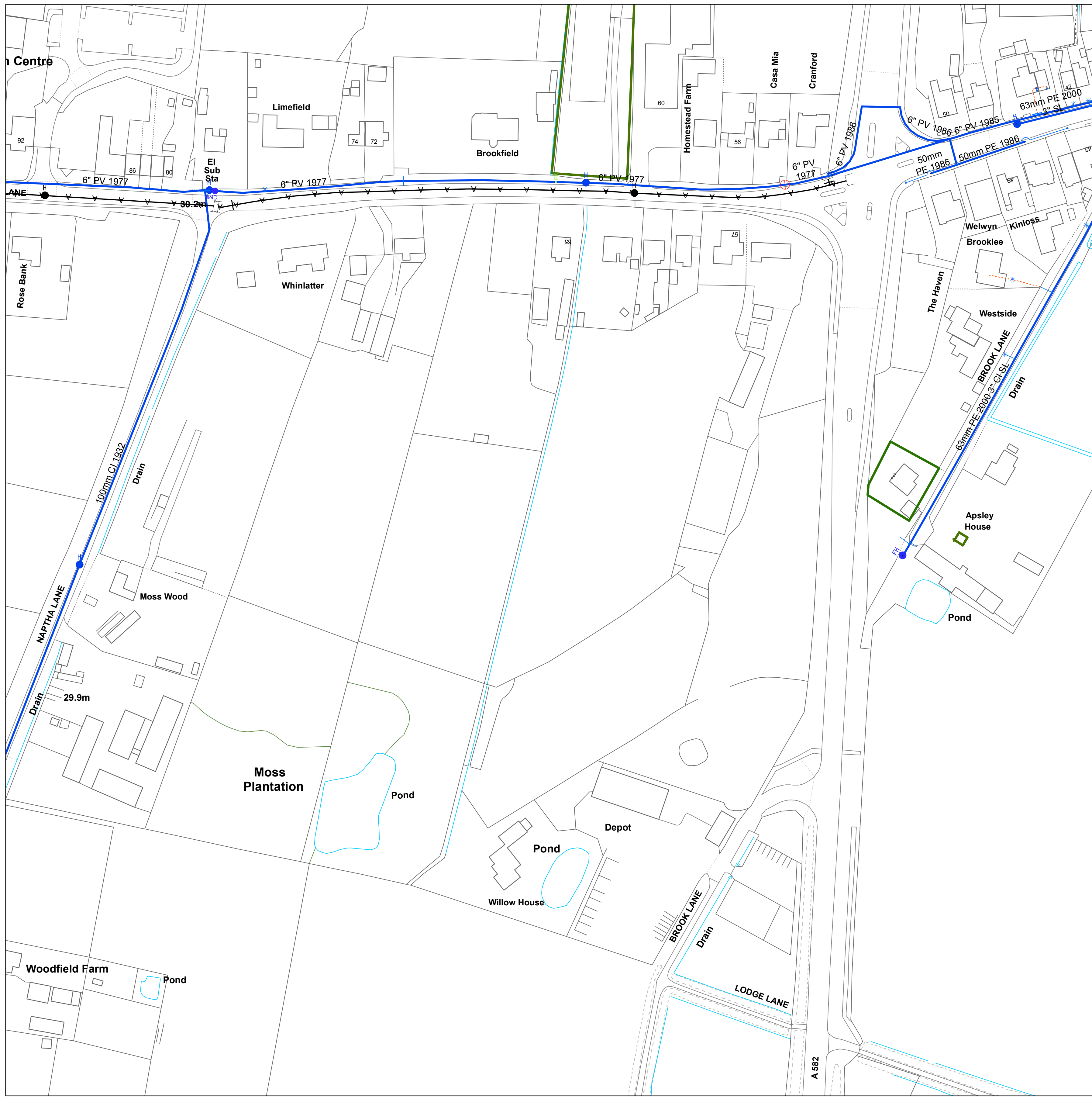
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Scale: 1: 1250 Date: 27/04/2018



WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |   |   |   |
|---|---|---|
| Live                                      | Proposed  | Trunk Main - PressurisedMain                  |
| Raw Water Aqueduct - PressurisedMain      | Raw Water Aqueduct - GravityMain                  | LDTM Raw Water Distribution - PressurisedMain |
| LDTM Raw Water Distribution - GravityMain | LDTM Treated Water Distribution - PressurisedMain | LDTM Treated Water Distribution - GravityMain |
| Private Pipe - LateralLine                | Distribution Main - PressurisedMain               | Comms Pipe - LateralLine                      |
| Concessionary Service - LateralLine       |   |   |

**ABANDONED PIPE**

- |            |                    |                             |                                 |              |                   |            |                       |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|
| Trunk Main | Raw Water Aqueduct | LDTM Raw Water Distribution | LDTM Treated Water Distribution | Private Pipe | Distribution Main | Comms Pipe | Concessionary Service |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|

**NODES/ FURNITURE**

- |                       |                  |                           |
|-----------------------|------------------|---------------------------|
| Live                  | Proposed         | End Cap                   |
| CC Valve              | AC Valve         | Air Valve                 |
| Sluice Valve          | Non Return Valve | Pressure Management Valve |
| Change of Char        | Anode            | Chlorination Point        |
| De Chlorination Point | Bore Hole        | Inlet Point               |
| Bulk Supply Point     | Fire Hydrant     | Hydrant                   |
| Private Fire Hydrant  | Pump             | Site Termination          |
| Service Start         | Service End      |                           |

**Property Types**

- |                       |                         |                  |
|-----------------------|-------------------------|------------------|
| Live                  | Proposed                | Condition Report |
| Pipe Bridges          | Tunnels (non carrier)   | Pumping Station  |
| Water Treatment Works | Private Treatment Works | Valve House      |
| Water Tower           | Service Reservoir       | Supply Reservoir |
| Abstraction Point     | Domestic meter          | Commercial meter |
| Telemetry Outstation  |                         |                  |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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Scale: 1: 1250

Date: 27/04/2018

OS Sheet No: SD5225SE

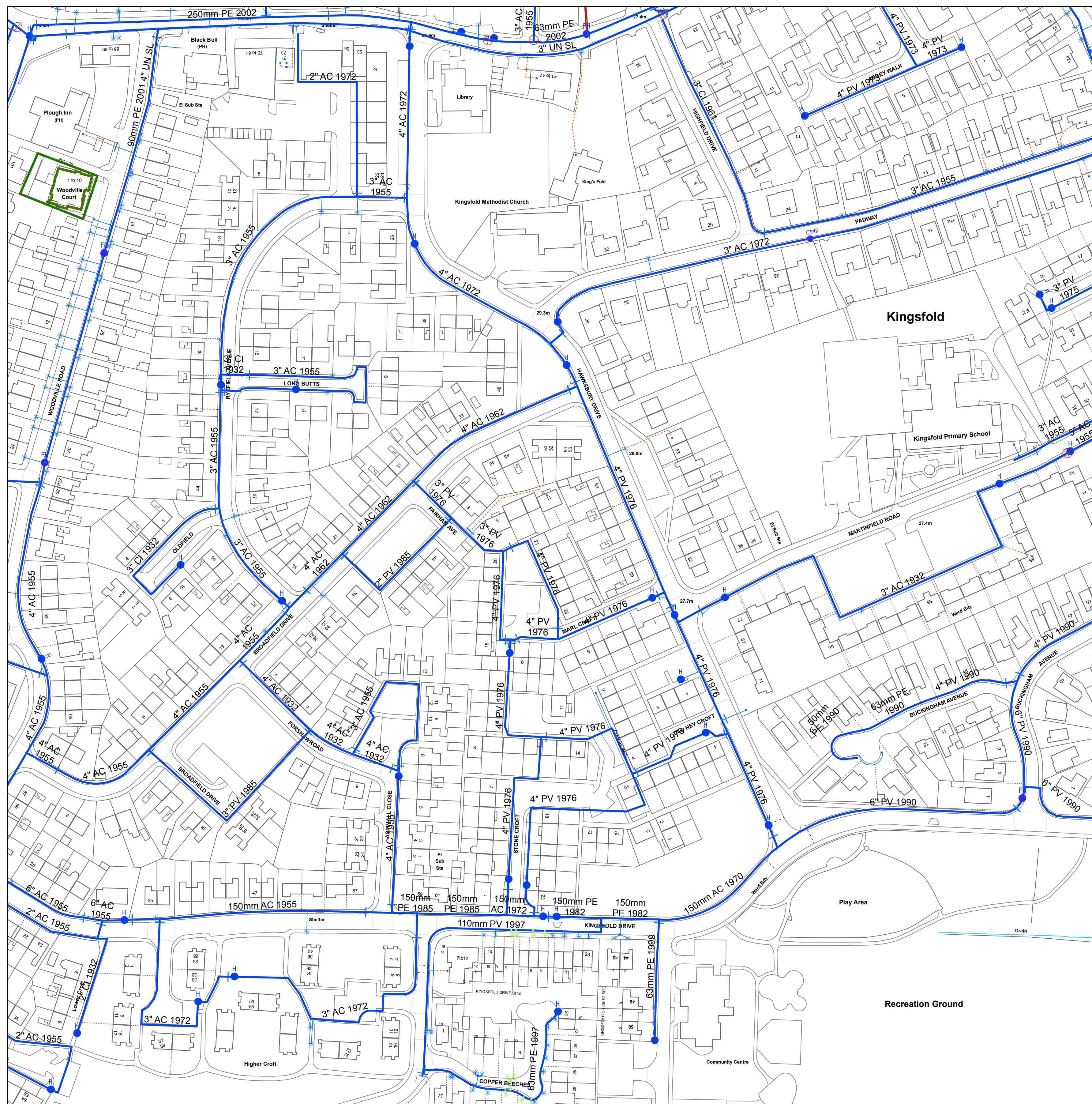
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WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |   |   |   |
|---|---|---|
| Live                                      | Proposed  | Trunk Main - PressurisedMain                  |
| Raw Water Aqueduct - PressurisedMain      | Raw Water Aqueduct - GravityMain                  | LDTM Raw Water Distribution - PressurisedMain |
| LDTM Raw Water Distribution - GravityMain | LDTM Treated Water Distribution - PressurisedMain | LDTM Treated Water Distribution - GravityMain |
| Private Pipe - LateralLine                | Distribution Main - PressurisedMain               | Comms Pipe - LateralLine                      |
| Concessionary Service - LateralLine       |   |   |

**ABANDONED PIPE**

- |            |                    |                             |                                 |              |                   |            |                       |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|
| Trunk Main | Raw Water Aqueduct | LDTM Raw Water Distribution | LDTM Treated Water Distribution | Private Pipe | Distribution Main | Comms Pipe | Concessionary Service |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|

**NODES/ FURNITURE**

- |                       |                  |                           |
|-----------------------|------------------|---------------------------|
| Live                  | Proposed         | End Cap                   |
| CC Valve              | AC Valve         | Air Valve                 |
| Sluice Valve          | Non Return Valve | Pressure Management Valve |
| Change of Char        | Anode            | Chlorination Point        |
| De Chlorination Point | Bore Hole        | Inlet Point               |
| Bulk Supply Point     | Fire Hydrant     | Hydrant                   |
| Private Fire Hydrant  | Pump             | Site Termination          |
| Service Start         | Service End      |                           |

**Property Types**

- |                       |                         |                  |
|-----------------------|-------------------------|------------------|
| Live                  | Proposed                | Condition Report |
| Pipe Bridges          | Tunnels (non carrier)   | Pumping Station  |
| Water Treatment Works | Private Treatment Works | Valve House      |
| Water Tower           | Service Reservoir       | Supply Reservoir |
| Abstraction Point     | Domestic meter          | Commercial meter |
| Telemetry Outstation  |                         |                  |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |   |   |   |
|---|---|---|
| Live                                      | Proposed  | Trunk Main - PressurisedMain                  |
| Raw Water Aqueduct - PressurisedMain      | Raw Water Aqueduct - GravityMain                  | LDTM Raw Water Distribution - PressurisedMain |
| LDTM Raw Water Distribution - GravityMain | LDTM Treated Water Distribution - PressurisedMain | LDTM Treated Water Distribution - GravityMain |
| Private Pipe - LateralLine                | Distribution Main - PressurisedMain               | Comms Pipe - LateralLine                      |
| Concessionary Service - LateralLine       |   |   |

**ABANDONED PIPE**

- |            |                    |                             |                                 |              |                   |            |                       |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|
| Trunk Main | Raw Water Aqueduct | LDTM Raw Water Distribution | LDTM Treated Water Distribution | Private Pipe | Distribution Main | Comms Pipe | Concessionary Service |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|

**NODES/ FURNITURE**

- |                       |                  |                           |
|-----------------------|------------------|---------------------------|
| Live                  | Proposed         | End Cap                   |
| CC Valve              | AC Valve         | Air Valve                 |
| Sluice Valve          | Non Return Valve | Pressure Management Valve |
| Change of Char        | Anode            | Chlorination Point        |
| De Chlorination Point | Bore Hole        | Inlet Point               |
| Bulk Supply Point     | Fire Hydrant     | Hydrant                   |
| Private Fire Hydrant  | Pump             | Site Termination          |
| Service Start         | Service End      |                           |

**Property Types**

- |                       |                         |                  |
|-----------------------|-------------------------|------------------|
| Live                  | Proposed                | Condition Report |
| Pipe Bridges          | Tunnels (non carrier)   | Pumping Station  |
| Water Treatment Works | Private Treatment Works | Valve House      |
| Water Tower           | Service Reservoir       | Supply Reservoir |
| Abstraction Point     | Domestic meter          | Commercial meter |
| Telemetry Outstation  |                         |                  |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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Date: 27/04/2018

OS Sheet No: SD5226NW

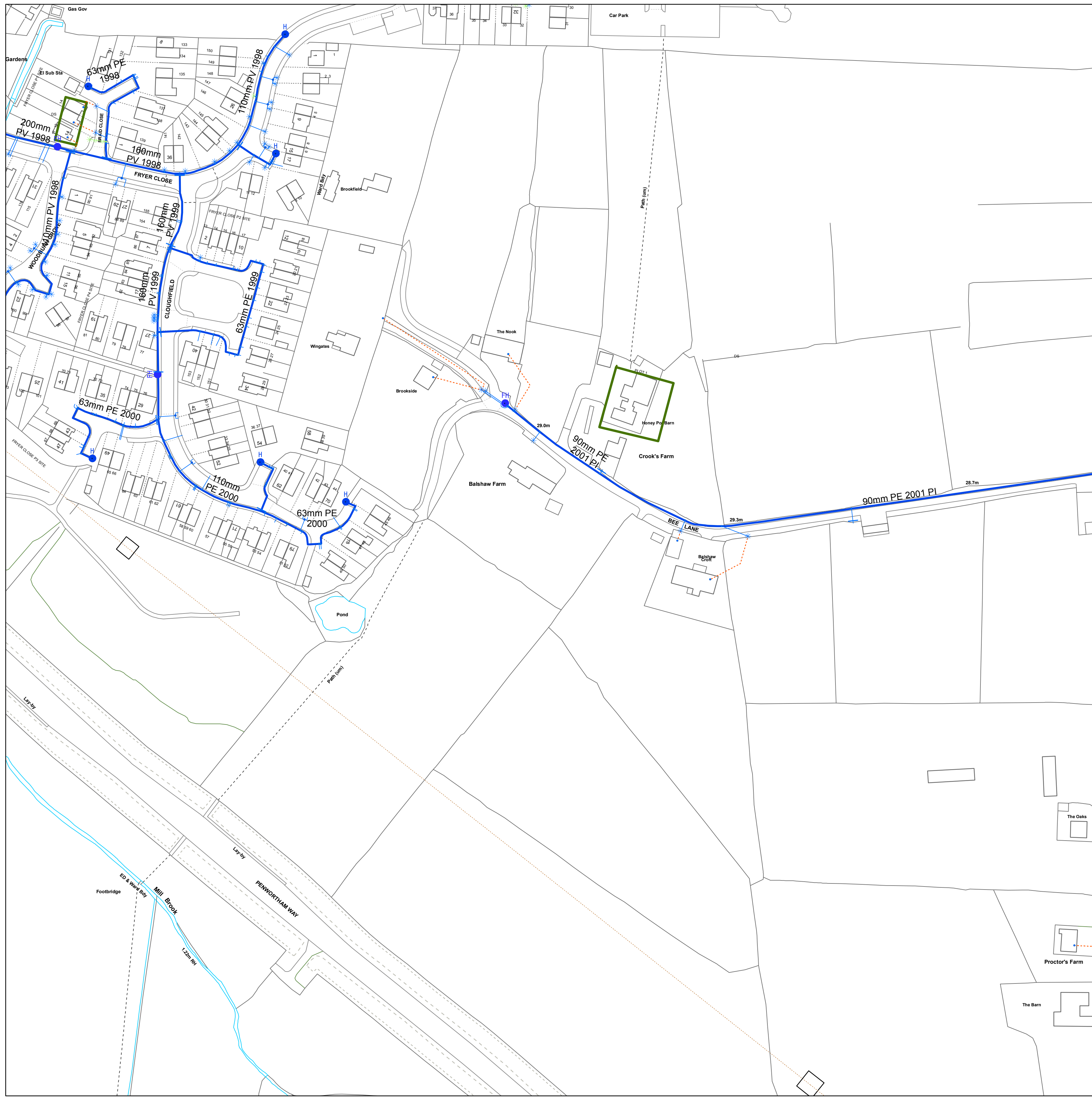
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WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |   |   |   |
|---|---|---|
| Live                                      | Proposed  | Trunk Main - PressurisedMain                  |
| Raw Water Aqueduct                        | Raw Water Aqueduct - GravityMain                  | LDTM Raw Water Distribution - PressurisedMain |
| LDTM Raw Water Distribution - GravityMain | LDTM Treated Water Distribution - PressurisedMain | LDTM Treated Water Distribution - GravityMain |
| Private Pipe - LateralLine                | Distribution Main - PressurisedMain               | Comms Pipe - LateralLine                      |
| Concessionary Service - LateralLine       |   |   |

**ABANDONED PIPE**

- |            |                    |                             |              |                   |            |                       |
|------------|--------------------|-----------------------------|--------------|-------------------|------------|-----------------------|
| Trunk Main | Raw Water Aqueduct | LDTM Raw Water Distribution | Private Pipe | Distribution Main | Comms Pipe | Concessionary Service |
|------------|--------------------|-----------------------------|--------------|-------------------|------------|-----------------------|

**NODES/ FURNITURE**

- |                       |                  |                           |
|-----------------------|------------------|---------------------------|
| Live                  | Proposed         | End Cap                   |
| CC Valve              | AC Valve         | Air Valve                 |
| Sluice Valve          | Non Return Valve | Pressure Management Valve |
| Change of Char        | Anode            | Chlorination Point        |
| De Chlorination Point | Bore Hole        | Inlet Point               |
| Bulk Supply Point     | Fire Hydrant     | Hydrant                   |
| Private Fire Hydrant  | Pump             | Site Termination          |
| Service Start         | Service End      |                           |

**Property Types**

- |                       |                               |                  |
|-----------------------|-------------------------------|------------------|
| Live                  | Proposed                      | Condition Report |
| Pipe Bridges          | Tunnels (non carrier)         | Pumping Station  |
| Water Treatment Works | Private Water Treatment Works | Valve House      |
| Water Tower           | Service Reservoir             | Supply Reservoir |
| Abstraction Point     | Domestic meter                | Commercial meter |
| Telemetry Outstation  |                               |                  |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |             |                 |   |
|-------------|-----------------|---|
| <b>Live</b> | <b>Proposed</b> | Trunk Main - PressurisedMain                      |
|             |                 | Raw Water Aqueduct - PressurisedMain              |
|             |                 | Raw Water Aqueduct - GravityMain                  |
|             |                 | LDTM Raw Water Distribution - PressurisedMain     |
|             |                 | LDTM Raw Water Distribution - GravityMain         |
|             |                 | LDTM Treated Water Distribution - PressurisedMain |
|             |                 | LDTM Treated Water Distribution - GravityMain     |
|             |                 | Private Pipe - LateralLine                        |
|             |                 | Distribution Main - PressurisedMain               |
|             |                 | Comms Pipe - LateralLine                          |
|             |                 | Concessionary Service - LateralLine               |

**ABANDONED PIPE**

- |  |                                 |
|--|---------------------------------|
|  | Trunk Main                      |
|  | Raw Water Aqueduct              |
|  | LDTM Raw Water Distribution     |
|  | LDTM Treated Water Distribution |
|  | Private Pipe                    |
|  | Distribution Main               |
|  | Comms Pipe                      |
|  | Concessionary Service           |

**NODES/ FURNITURE**

- |             |                 |                           |
|-------------|-----------------|---------------------------|
| <b>Live</b> | <b>Proposed</b> | End Cap                   |
|             |                 | CC Valve                  |
|             |                 | AC Valve                  |
|             |                 | Air Valve                 |
|             |                 | Sluice Valve              |
|             |                 | Non Return Valve          |
|             |                 | Pressure Management Valve |
|             |                 | Change of Char            |
|             |                 | Anode                     |
|             |                 | Chlorination Point        |
|             |                 | De Chlorination Point     |
|             |                 | Bore Hole                 |
|             |                 | Inlet Point               |
|             |                 | Bulk Supply Point         |
|             |                 | Fire Hydrant              |
|             |                 | Hydrant                   |
|             |                 | Private Fire Hydrant      |
|             |                 | Pump                      |
|             |                 | Site Termination          |
|             |                 | Service Start             |
|             |                 | Service End               |

**Property Types**

- |             |                 |                         |
|-------------|-----------------|-------------------------|
| <b>Live</b> | <b>Proposed</b> | Condition Report        |
|             |                 | Pipe Bridges            |
|             |                 | Tunnels (non carrier)   |
|             |                 | Pumping Station         |
|             |                 | Water Treatment Works   |
|             |                 | Private Treatment Works |
|             |                 | Valve House             |
|             |                 | Water Tower             |
|             |                 | Service Reservoir       |
|             |                 | Supply Reservoir        |
|             |                 | Abstraction Point       |
|             |                 | Domestic meter          |
|             |                 | Commercial meter        |
|             |                 | Telemetry Outstation    |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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OS Sheet No: SD5226SW

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WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |   |   |   |
|---|---|---|
| Live                                      | Proposed  | Trunk Main - PressurisedMain                  |
| Raw Water Aqueduct - PressurisedMain      | Raw Water Aqueduct - GravityMain                  | LDTM Raw Water Distribution - PressurisedMain |
| LDTM Raw Water Distribution - GravityMain | LDTM Treated Water Distribution - PressurisedMain | LDTM Treated Water Distribution - GravityMain |
| Private Pipe - LateralLine                | Distribution Main - PressurisedMain               | Comms Pipe - LateralLine                      |
| Concessionary Service - LateralLine       |   |   |

**ABANDONED PIPE**

- |            |                    |                             |                                 |              |                   |            |                       |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|
| Trunk Main | Raw Water Aqueduct | LDTM Raw Water Distribution | LDTM Treated Water Distribution | Private Pipe | Distribution Main | Comms Pipe | Concessionary Service |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|

**NODES/ FURNITURE**

- |                       |                  |                           |
|-----------------------|------------------|---------------------------|
| Live                  | Proposed         | End Cap                   |
| CC Valve              | AC Valve         | Air Valve                 |
| Sluice Valve          | Non Return Valve | Pressure Management Valve |
| Change of Char        | Anode            | Chlorination Point        |
| De Chlorination Point | Bore Hole        | Inlet Point               |
| Bulk Supply Point     | Fire Hydrant     | Hydrant                   |
| Private Fire Hydrant  | Pump             | Site Termination          |
| Service Start         | Service End      |                           |

**Property Types**

- |                       |                         |                  |
|-----------------------|-------------------------|------------------|
| Live                  | Proposed                | Condition Report |
| Pipe Bridges          | Tunnels (non carrier)   | Pumping Station  |
| Water Treatment Works | Private Treatment Works | Valve House      |
| Water Tower           | Service Reservoir       | Supply Reservoir |
| Abstraction Point     | Domestic meter          | Commercial meter |
| Telemetry Outstation  |                         |                  |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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Date: 27/04/2018

OS Sheet No: SD5324NW

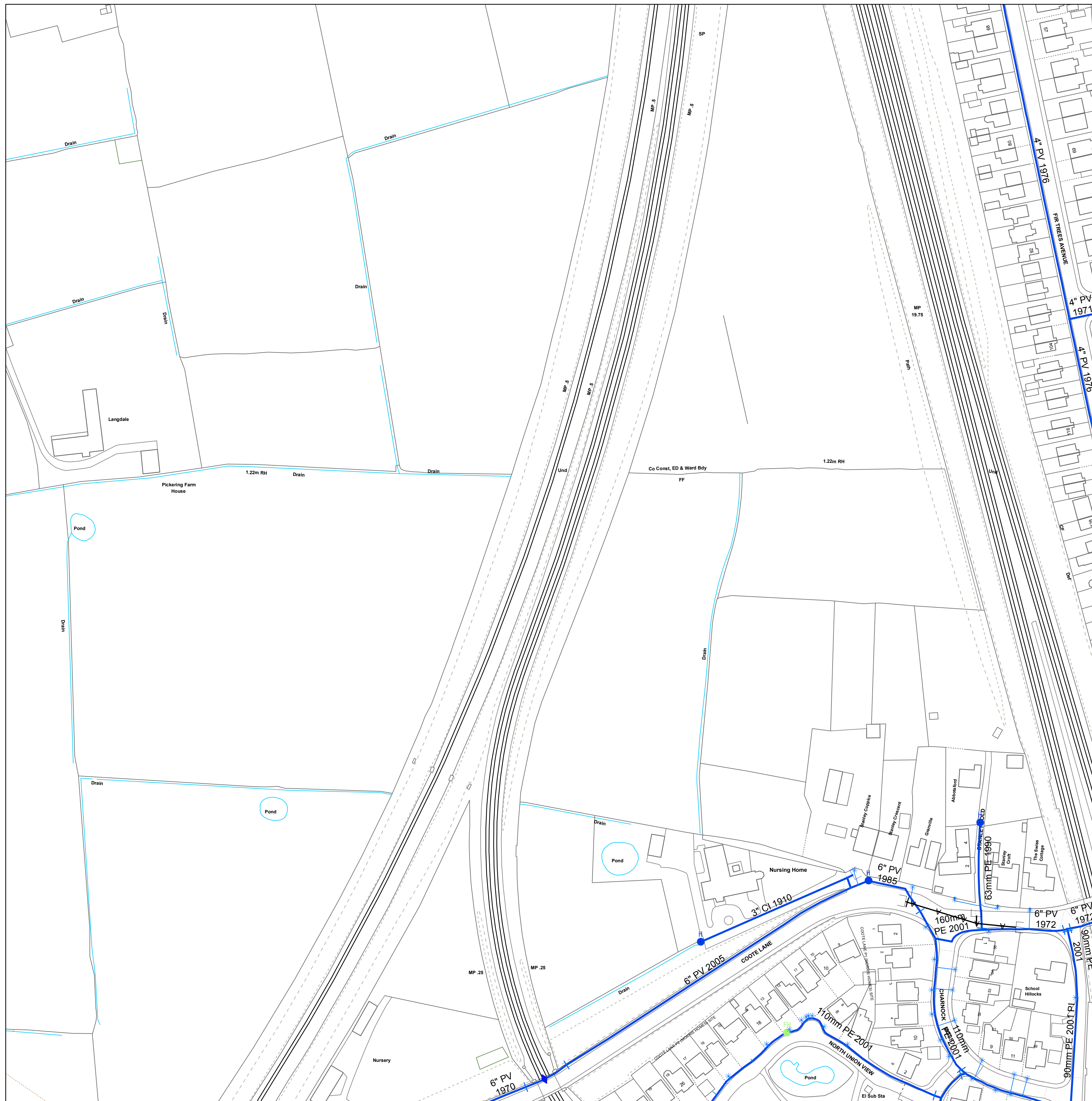
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WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |   |   |   |
|---|---|---|
| Live                                      | Proposed  | Trunk Main - PressurisedMain                  |
| Raw Water Aqueduct - PressurisedMain      | Raw Water Aqueduct - GravityMain                  | LDTM Raw Water Distribution - PressurisedMain |
| LDTM Raw Water Distribution - GravityMain | LDTM Treated Water Distribution - PressurisedMain | LDTM Treated Water Distribution - GravityMain |
| Private Pipe - LateralLine                | Distribution Main - PressurisedMain               | Comms Pipe - LateralLine                      |
| Concessionary Service - LateralLine       |   |   |

**ABANDONED PIPE**

- |            |                    |                             |                                 |              |                   |            |                       |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|
| Trunk Main | Raw Water Aqueduct | LDTM Raw Water Distribution | LDTM Treated Water Distribution | Private Pipe | Distribution Main | Comms Pipe | Concessionary Service |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|

**NODES/ FURNITURE**

- |                       |                  |                           |
|-----------------------|------------------|---------------------------|
| Live                  | Proposed         | End Cap                   |
| CC Valve              | AC Valve         | Air Valve                 |
| Sluice Valve          | Non Return Valve | Pressure Management Valve |
| Change of Char        | Anode            | Chlorination Point        |
| De Chlorination Point | Bore Hole        | Inlet Point               |
| Bulk Supply Point     | Fire Hydrant     | Hydrant                   |
| Private Fire Hydrant  | Pump             | Site Termination          |
| Service Start         | Service End      |                           |

**Property Types**

- |                       |                         |                  |
|-----------------------|-------------------------|------------------|
| Live                  | Proposed                | Condition Report |
| Pipe Bridges          | Tunnels (non carrier)   | Pumping Station  |
| Water Treatment Works | Private Treatment Works | Valve House      |
| Water Tower           | Service Reservoir       | Supply Reservoir |
| Abstraction Point     | Domestic meter          | Commercial meter |
| Telemetry Outstation  |                         |                  |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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OS Sheet No: SD5325NE

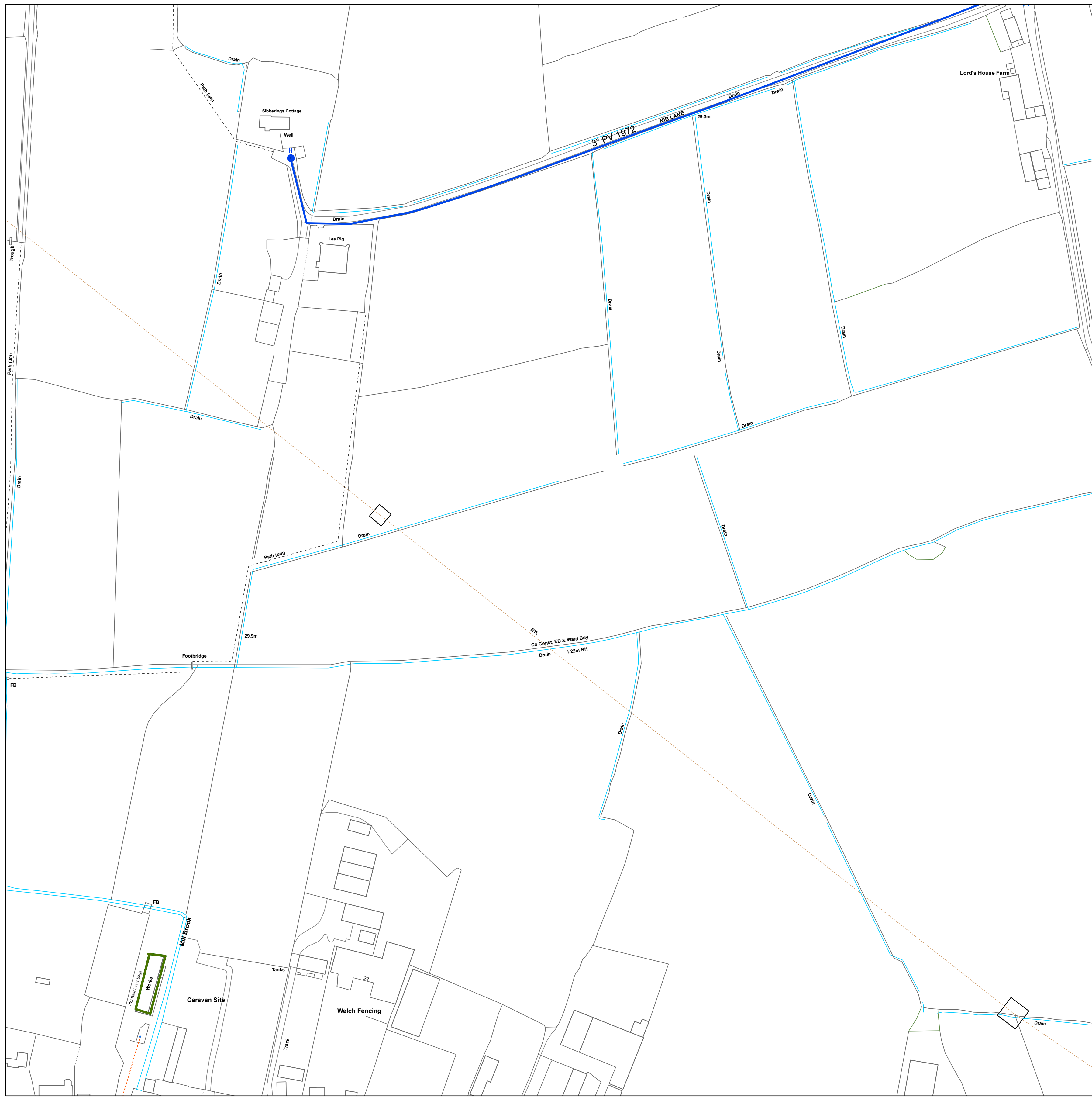
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WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |             |                 |   |
|-------------|-----------------|---|
| <b>Live</b> | <b>Proposed</b> | Trunk Main - PressurisedMain                      |
|             |                 | Raw Water Aqueduct - PressurisedMain              |
|             |                 | Raw Water Aqueduct - GravityMain                  |
|             |                 | LDTM Raw Water Distribution - PressurisedMain     |
|             |                 | LDTM Raw Water Distribution - GravityMain         |
|             |                 | LDTM Treated Water Distribution - PressurisedMain |
|             |                 | LDTM Treated Water Distribution - GravityMain     |
|             |                 | Private Pipe - LateralLine                        |
|             |                 | Distribution Main - PressurisedMain               |
|             |                 | Comms Pipe - LateralLine                          |
|             |                 | Concessionary Service - LateralLine               |

**ABANDONED PIPE**

- |  |                                 |
|--|---------------------------------|
|  | Trunk Main                      |
|  | Raw Water Aqueduct              |
|  | LDTM Raw Water Distribution     |
|  | LDTM Treated Water Distribution |
|  | Private Pipe                    |
|  | Distribution Main               |
|  | Comms Pipe                      |
|  | Concessionary Service           |

**NODES/ FURNITURE**

- |             |                 |                           |
|-------------|-----------------|---------------------------|
| <b>Live</b> | <b>Proposed</b> | End Cap                   |
|             |                 | CC Valve                  |
|             |                 | AC Valve                  |
|             |                 | Air Valve                 |
|             |                 | Sluice Valve              |
|             |                 | Non Return Valve          |
|             |                 | Pressure Management Valve |
|             |                 | Change of Char            |
|             |                 | Anode                     |
|             |                 | Chlorination Point        |
|             |                 | De Chlorination Point     |
|             |                 | Bore Hole                 |
|             |                 | Inlet Point               |
|             |                 | Bulk Supply Point         |
|             |                 | Fire Hydrant              |
|             |                 | Hydrant                   |
|             |                 | Private Fire Hydrant      |
|             |                 | Pump                      |
|             |                 | Site Termination          |
|             |                 | Service Start             |
|             |                 | Service End               |

**Property Types**

- |             |                 |                         |
|-------------|-----------------|-------------------------|
| <b>Live</b> | <b>Proposed</b> | Condition Report        |
|             |                 | Pipe Bridges            |
|             |                 | Tunnels (non carrier)   |
|             |                 | Pumping Station         |
|             |                 | Water Treatment Works   |
|             |                 | Private Treatment Works |
|             |                 | Valve House             |
|             |                 | Water Tower             |
|             |                 | Service Reservoir       |
|             |                 | Supply Reservoir        |
|             |                 | Abstraction Point       |
|             |                 | Domestic meter          |
|             |                 | Commercial meter        |
|             |                 | Telemetry Outstation    |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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Date: 27/04/2018

OS Sheet No: SD5325NW

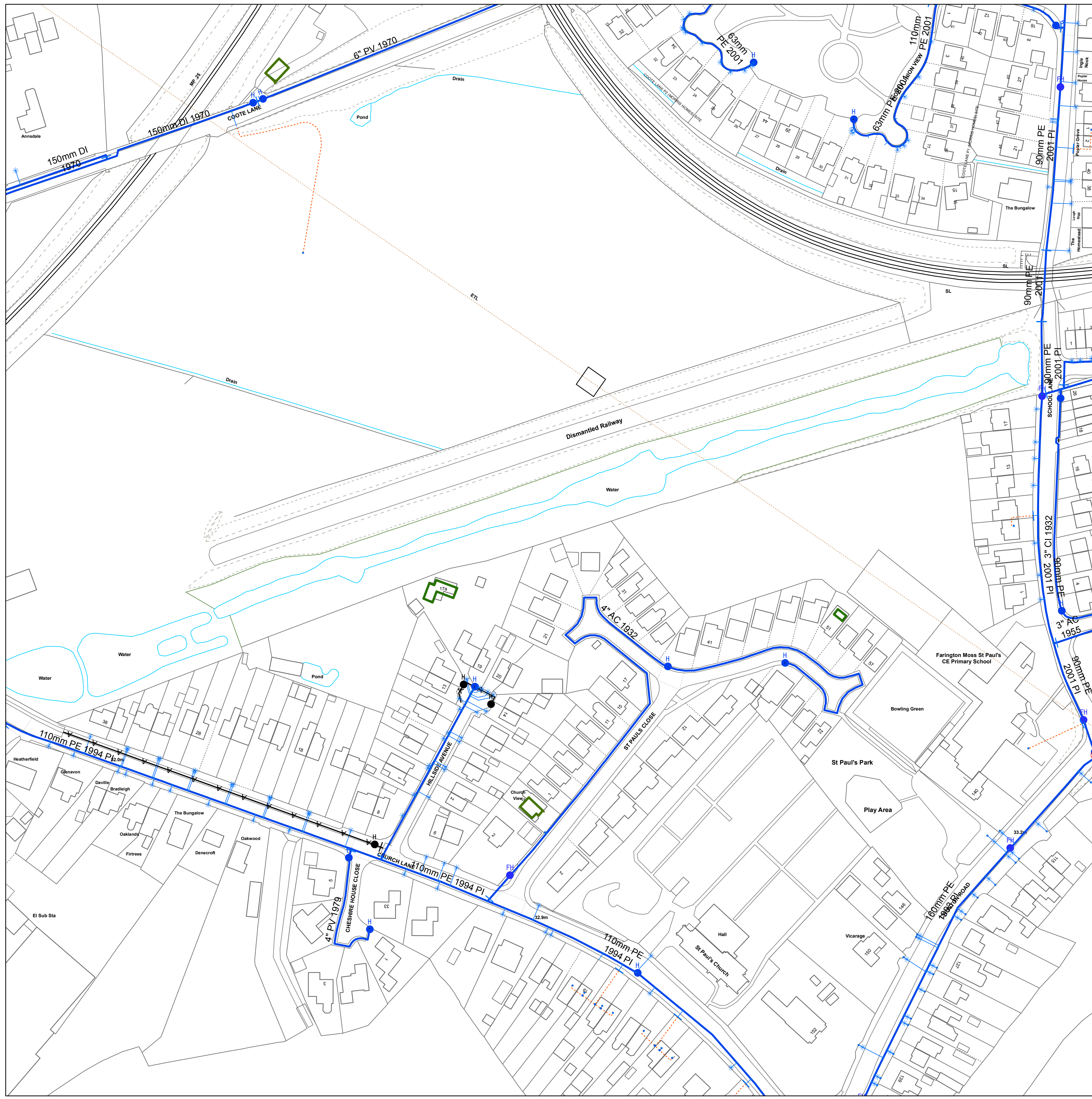
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WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |   |   |   |
|---|---|---|
| Live                                      | Proposed  | Trunk Main - PressurisedMain                  |
| Raw Water Aqueduct - PressurisedMain      | Raw Water Aqueduct - GravityMain                  | LDTM Raw Water Distribution - PressurisedMain |
| LDTM Raw Water Distribution - GravityMain | LDTM Treated Water Distribution - PressurisedMain | LDTM Treated Water Distribution - GravityMain |
| Private Pipe - LateralLine                | Distribution Main - PressurisedMain               | Comms Pipe - LateralLine                      |
| Concessionary Service - LateralLine       |   |   |

**ABANDONED PIPE**

- |            |                    |                             |                                 |              |                   |            |                       |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|
| Trunk Main | Raw Water Aqueduct | LDTM Raw Water Distribution | LDTM Treated Water Distribution | Private Pipe | Distribution Main | Comms Pipe | Concessionary Service |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|

**NODES/ FURNITURE**

- |                       |                  |                           |
|-----------------------|------------------|---------------------------|
| Live                  | Proposed         | End Cap                   |
| CC Valve              | AC Valve         | Air Valve                 |
| Sluice Valve          | Non Return Valve | Pressure Management Valve |
| Change of Char        | Anode            | Chlorination Point        |
| De Chlorination Point | Bore Hole        | Inlet Point               |
| Bulk Supply Point     | Fire Hydrant     | Hydrant                   |
| Private Fire Hydrant  | Pump             | Site Termination          |
| Service Start         | Service End      |                           |

**Property Types**

- |                       |                         |                  |
|-----------------------|-------------------------|------------------|
| Live                  | Proposed                | Condition Report |
| Pipe Bridges          | Tunnels (non carrier)   | Pumping Station  |
| Water Treatment Works | Private Treatment Works | Valve House      |
| Water Tower           | Service Reservoir       | Supply Reservoir |
| Abstraction Point     | Domestic meter          | Commercial meter |
| Telemetry Outstation  |                         |                  |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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Scale: 1: 1250

Date: 27/04/2018

OS Sheet No: SD5325SE

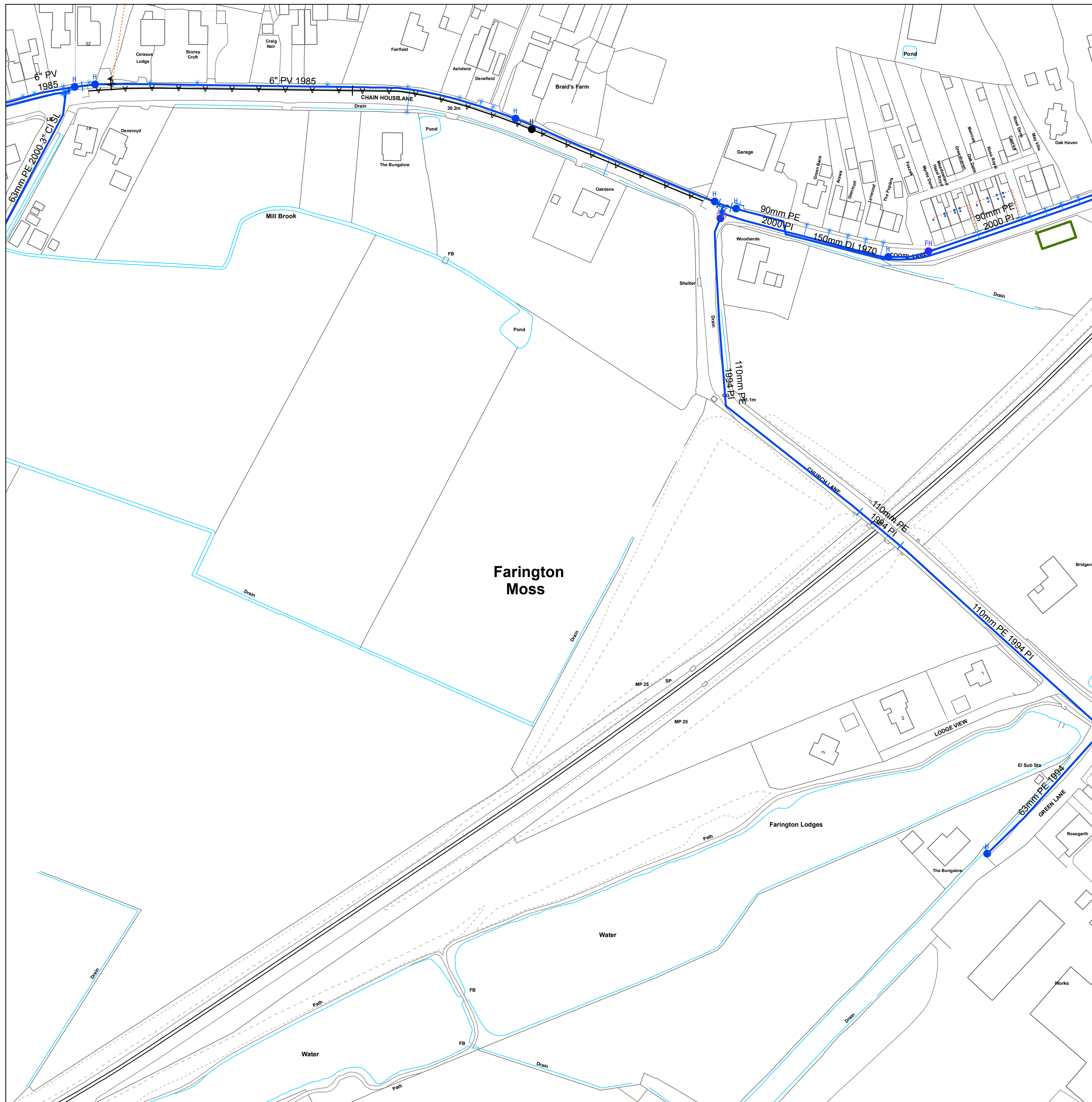
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Scale: 1: 1250 Date: 27/04/2018



WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |   |   |   |
|---|---|---|
| Live                                      | Proposed  | Trunk Main - PressurisedMain                  |
| Raw Water Aqueduct - PressurisedMain      | Raw Water Aqueduct - GravityMain                  | LDTM Raw Water Distribution - PressurisedMain |
| LDTM Raw Water Distribution - GravityMain | LDTM Treated Water Distribution - PressurisedMain | LDTM Treated Water Distribution - GravityMain |
| Private Pipe - LateralLine                | Distribution Main - PressurisedMain               | Comms Pipe - LateralLine                      |
| Concessionary Service - LateralLine       |   |   |

**ABANDONED PIPE**

- |            |                    |                             |                                 |              |                   |            |                       |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|
| Trunk Main | Raw Water Aqueduct | LDTM Raw Water Distribution | LDTM Treated Water Distribution | Private Pipe | Distribution Main | Comms Pipe | Concessionary Service |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|

**NODES/ FURNITURE**

- |                       |                  |                           |
|-----------------------|------------------|---------------------------|
| Live                  | Proposed         | End Cap                   |
| CC Valve              | AC Valve         | Air Valve                 |
| Sluice Valve          | Non Return Valve | Pressure Management Valve |
| Change of Char        | Anode            | Chlorination Point        |
| De Chlorination Point | Bore Hole        | Inlet Point               |
| Bulk Supply Point     | Fire Hydrant     | Hydrant                   |
| Private Fire Hydrant  | Pump             | Site Termination          |
| Service Start         | Service End      |                           |

**Property Types**

- |                       |                         |                  |
|-----------------------|-------------------------|------------------|
| Live                  | Proposed                | Condition Report |
| Pipe Bridges          | Tunnels (non carrier)   | Pumping Station  |
| Water Treatment Works | Private Treatment Works | Valve House      |
| Water Tower           | Service Reservoir       | Supply Reservoir |
| Abstraction Point     | Domestic meter          | Commercial meter |
| Telemetry Outstation  |                         |                  |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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OS Sheet No: SD5325SW

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Scale: 1: 1250 Date: 27/04/2018



WATER MAIN RECORDS





**Legend**

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

**NODES/ FURNITURE**

Live	Proposed	
End Cap	CC Valve	Air Valve
AC Valve	Sluice Valve	Non Return Valve
Pressure Management Valve	Change of Char	Anode
Chlorination Point	De Chlorination Point	Bore Hole
Inlet Point	Bulk Supply Point	Fire Hydrant
Hydrant	Private Fire Hydrant	Pump
Site Termination	Service Start	Service End

**Property Types**

Live	Proposed	
Condition Report	Pipe Bridges	Tunnels (non carrier)
Pumping Station	Water Treatment Works	Private Treatment Works
Valve House	Water Tower	Service Reservoir
Supply Reservoir	Abstraction Point	Domestic meter
Commercial meter	Telemetry Outstation	

**Material Types**

AC ASBESTOS CEMENT	OT OTHERS
CI CAST IRON	PB LEAD
CU COPPER	PV uPVC
CO CONCRETE	SI SPUN IRON
DI DUCTILE IRON	ST STEEL
GI GALVANISED IRON	UN UNKNOWN
GR GREY IRON	PE POLYETHYLENE

**Lining Types**

CL CEMENT LINING	ERL EPOXY RESIN
TB TAR OR BITUMEN	

**Insertion Types**

DD DIE DRAWN	MO MOLING
DR DIRECTIONAL DRILLING	PI PIPELINE
	SL SLIP LINED

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Date: 27/04/2018

OS Sheet No: SD5326NE

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Scale: 1: 1250 Date: 27/04/2018



WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- |   |   |   |
|---|---|---|
| Live                                      | Proposed  | Trunk Main - PressurisedMain                  |
| Raw Water Aqueduct - PressurisedMain      | Raw Water Aqueduct - GravityMain                  | LDTM Raw Water Distribution - PressurisedMain |
| LDTM Raw Water Distribution - GravityMain | LDTM Treated Water Distribution - PressurisedMain | LDTM Treated Water Distribution - GravityMain |
| Private Pipe - LateralLine                | Distribution Main - PressurisedMain               | Comms Pipe - LateralLine                      |
| Concessionary Service - LateralLine       |   |   |

**ABANDONED PIPE**

- |            |                    |                             |                                 |              |                   |            |                       |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|
| Trunk Main | Raw Water Aqueduct | LDTM Raw Water Distribution | LDTM Treated Water Distribution | Private Pipe | Distribution Main | Comms Pipe | Concessionary Service |
|------------|--------------------|-----------------------------|---------------------------------|--------------|-------------------|------------|-----------------------|

**NODES/ FURNITURE**

- |                       |                  |                           |
|-----------------------|------------------|---------------------------|
| Live                  | Proposed         | End Cap                   |
| CC Valve              | AC Valve         | Air Valve                 |
| Sluice Valve          | Non Return Valve | Pressure Management Valve |
| Change of Char        | Anode            | Chlorination Point        |
| De Chlorination Point | Bore Hole        | Inlet Point               |
| Bulk Supply Point     | Fire Hydrant     | Hydrant                   |
| Private Fire Hydrant  | Pump             | Site Termination          |
| Service Start         | Service End      |                           |

**Property Types**

- |                       |                         |                  |
|-----------------------|-------------------------|------------------|
| Live                  | Proposed                | Condition Report |
| Pipe Bridges          | Tunnels (non carrier)   | Pumping Station  |
| Water Treatment Works | Private Treatment Works | Valve House      |
| Water Tower           | Service Reservoir       | Supply Reservoir |
| Abstraction Point     | Domestic meter          | Commercial meter |
| Telemetry Outstation  |                         |                  |

**Material Types**

- |                    |                 |
|--------------------|-----------------|
| AC ASBESTOS CEMENT | OT OTHERS       |
| CI CAST IRON       | PB LEAD         |
| CU COPPER          | PV uPVC         |
| CO CONCRETE        | SI SPUN IRON    |
| DI DUCTILE IRON    | ST STEEL        |
| GI GALVANISED IRON | UN UNKNOWN      |
| GR GREY IRON       | PE POLYETHYLENE |

**Lining Types**

- |                   |                 |
|-------------------|-----------------|
| CL CEMENT LINING  | ERL EPOXY RESIN |
| TB TAR OR BITUMEN |                 |

**Insertion Types**

- |                         |               |
|-------------------------|---------------|
| DD DIE DRAWN            | MO MOLING     |
| DR DIRECTIONAL DRILLING | PI PIPELINE   |
|                         | SL SLIP LINED |

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Scale: 1: 1250

Date: 27/04/2018

OS Sheet No: SD5326NW

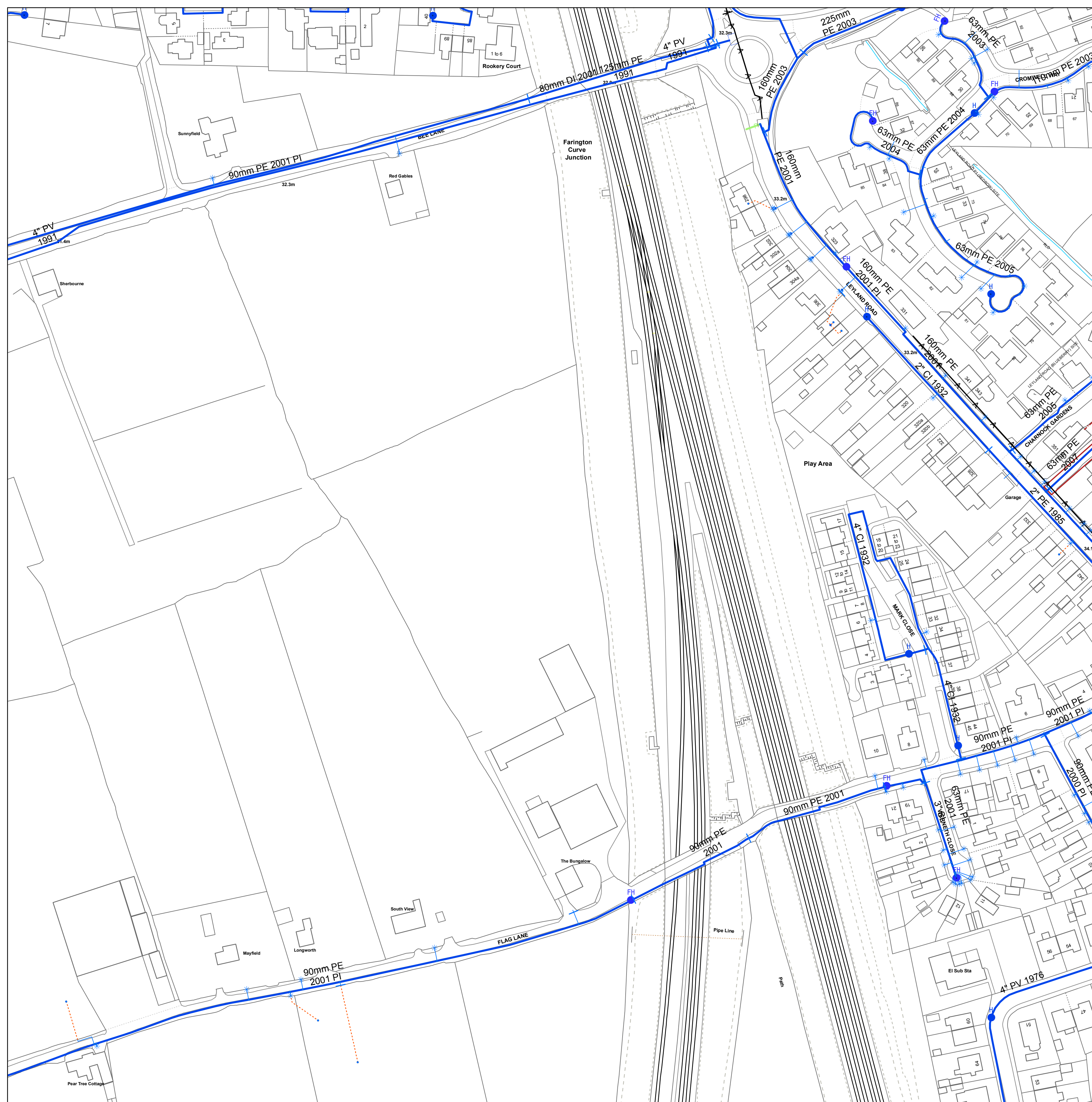
Scale: 1: 1250 Date: 27/04/2018

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WATER MAIN RECORDS





**Legend**

**PIPE WORK**

- | Live | Proposed | Description                                       |
|------|----------|---|
|      |          | Trunk Main - PressurisedMain                      |
|      |          | Raw Water Aqueduct - PressurisedMain              |
|      |          | Raw Water Aqueduct - GravityMain                  |
|      |          | LDTM Raw Water Distribution - PressurisedMain     |
|      |          | LDTM Raw Water Distribution - GravityMain         |
|      |          | LDTM Treated Water Distribution - PressurisedMain |
|      |          | LDTM Treated Water Distribution - GravityMain     |
|      |          | Private Pipe - LateralLine                        |
|      |          | Distribution Main - PressurisedMain               |
|      |          | Comms Pipe - LateralLine                          |
|      |          | Concessionary Service - LateralLine               |

**ABANDONED PIPE**

- |  |                                 |
|--|---------------------------------|
|  | Trunk Main                      |
|  | Raw Water Aqueduct              |
|  | LDTM Raw Water Distribution     |
|  | LDTM Treated Water Distribution |
|  | Private Pipe                    |
|  | Distribution Main               |
|  | Comms Pipe                      |
|  | Concessionary Service           |

**NODES/ FURNITURE**

- | Live | Proposed | Description               |
|------|----------|---------------------------|
|      |          | End Cap                   |
|      |          | CC Valve                  |
|      |          | AC Valve                  |
|      |          | Air Valve                 |
|      |          | Sluice Valve              |
|      |          | Non Return Valve          |
|      |          | Pressure Management Valve |
|      |          | Change of Char            |
|      |          | Anode                     |
|      |          | Chlorination Point        |
|      |          | De Chlorination Point     |
|      |          | Bore Hole                 |
|      |          | Inlet Point               |
|      |          | Bulk Supply Point         |
|      |          | Fire Hydrant              |
|      |          | Hydrant                   |
|      |          | Private Fire Hydrant      |
|      |          | Pump                      |
|      |          | Site Termination          |
|      |          | Service Start             |
|      |          | Service End               |

**Property Types**

- | Live | Proposed | Description             |
|------|----------|-------------------------|
|      |          | Condition Report        |
|      |          | Pipe Bridges            |
|      |          | Tunnels (non carrier)   |
|      |          | Pumping Station         |
|      |          | Water Treatment Works   |
|      |          | Private Treatment Works |
|      |          | Valve House             |
|      |          | Water Tower             |
|      |          | Service Reservoir       |
|      |          | Supply Reservoir        |
|      |          | Abstraction Point       |
|      |          | Domestic meter          |
|      |          | Commercial meter        |
|      |          | Telemetry Outstation    |

**Material Types**

- |    |                 |        |              |        |
|----|-----------------|--------|--------------|--------|
| AC | ASBESTOS        | CEMENT | OT           | OTHERS |
| CI | CAST IRON       | PB     | LEAD         |        |
| CU | COPPER          | PV     | uPVC         |        |
| CO | CONCRETE        | SI     | SPUN IRON    |        |
| DI | DUCTILE IRON    | ST     | STEEL        |        |
| GI | GALVANISED IRON | UN     | UNKNOWN      |        |
| GR | GREY IRON       | PE     | POLYETHYLENE |        |

**Lining Types**

- |    |                |     |             |
|----|----------------|-----|-------------|
| CL | CEMENT LINING  | ERL | EPOXY RESIN |
| TB | TAR OR BITUMEN |     |             |

**Insertion Types**

- |    |                      |    |            |
|----|----------------------|----|------------|
| DD | DIE DRAWN            | MO | MOLING     |
| DR | DIRECTIONAL DRILLING | PI | PIPELINE   |
|    |                      | SL | SLIP LINED |

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Scale: 1: 1250

Date: 27/04/2018

OS Sheet No: SD5326SE

Scale: 1: 1250 Date: 27/04/2018

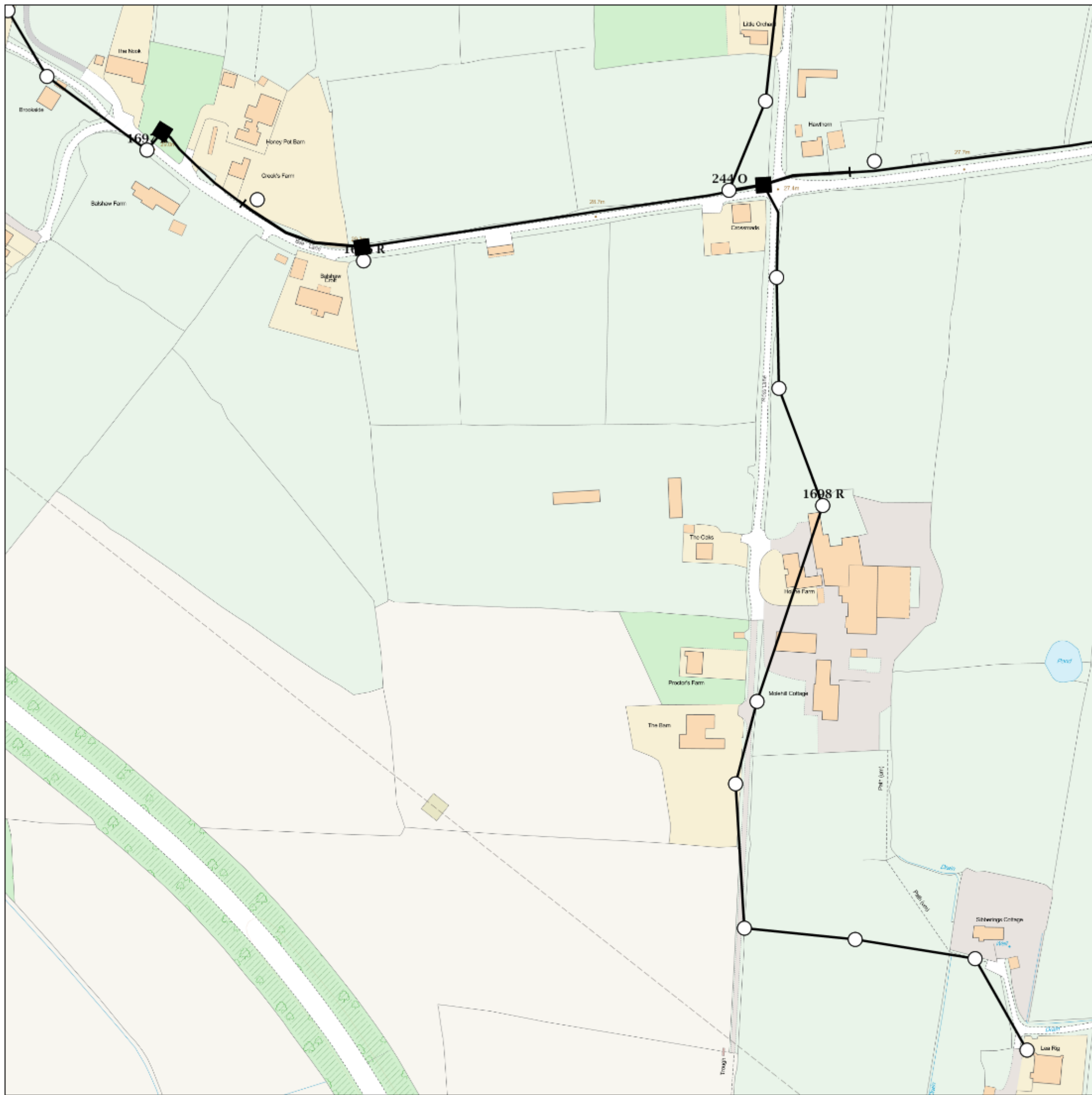
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WATER MAIN RECORDS



# 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.

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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : ATJ02229Y

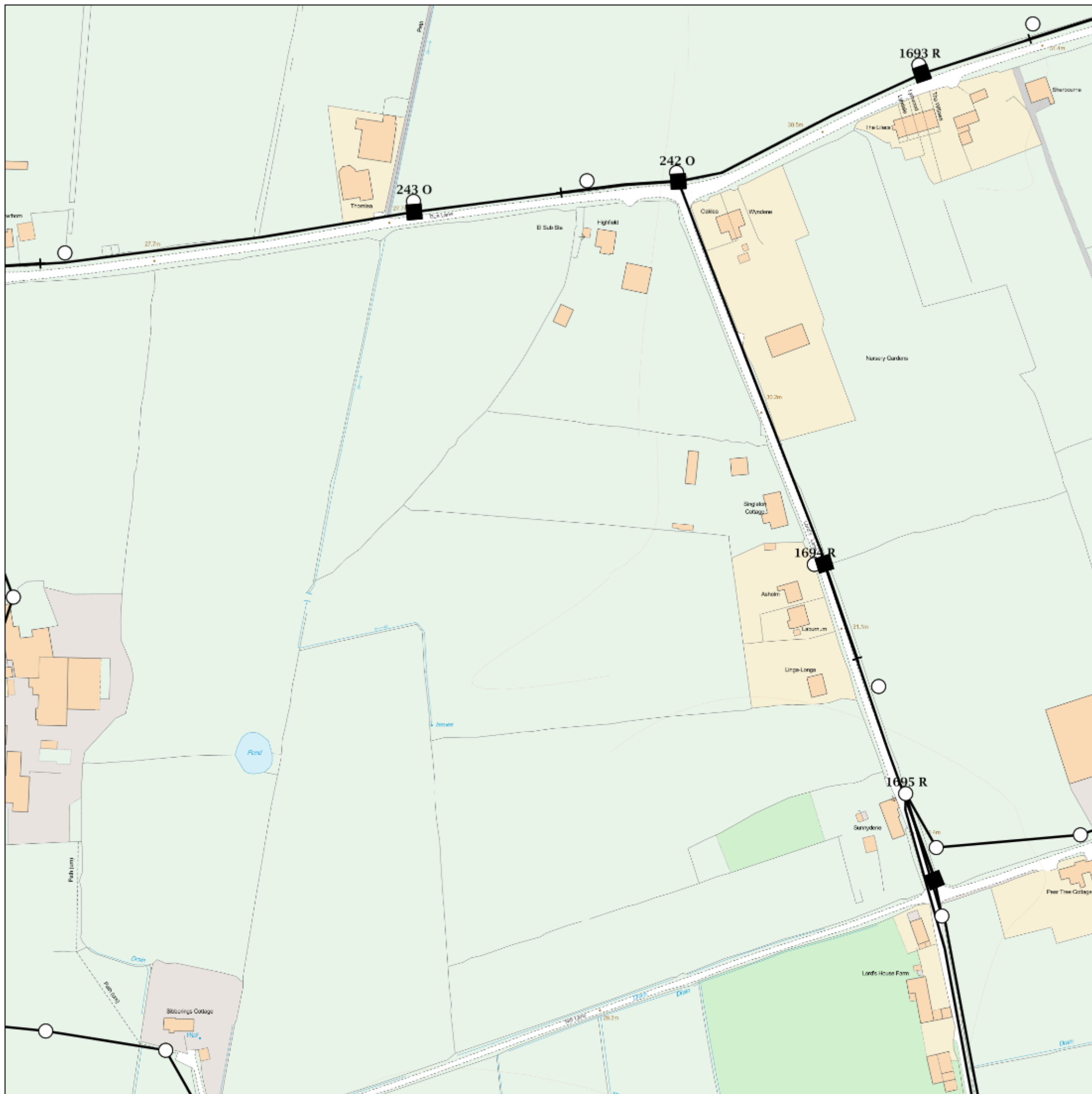
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Easting/Northing : (centre) 352923,426122

Issued : 08/05/2018 14:22:48

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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

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Information valid at time of preparation

BT Ref : ATT02224F

Map Reference : (centre) SD5329426164

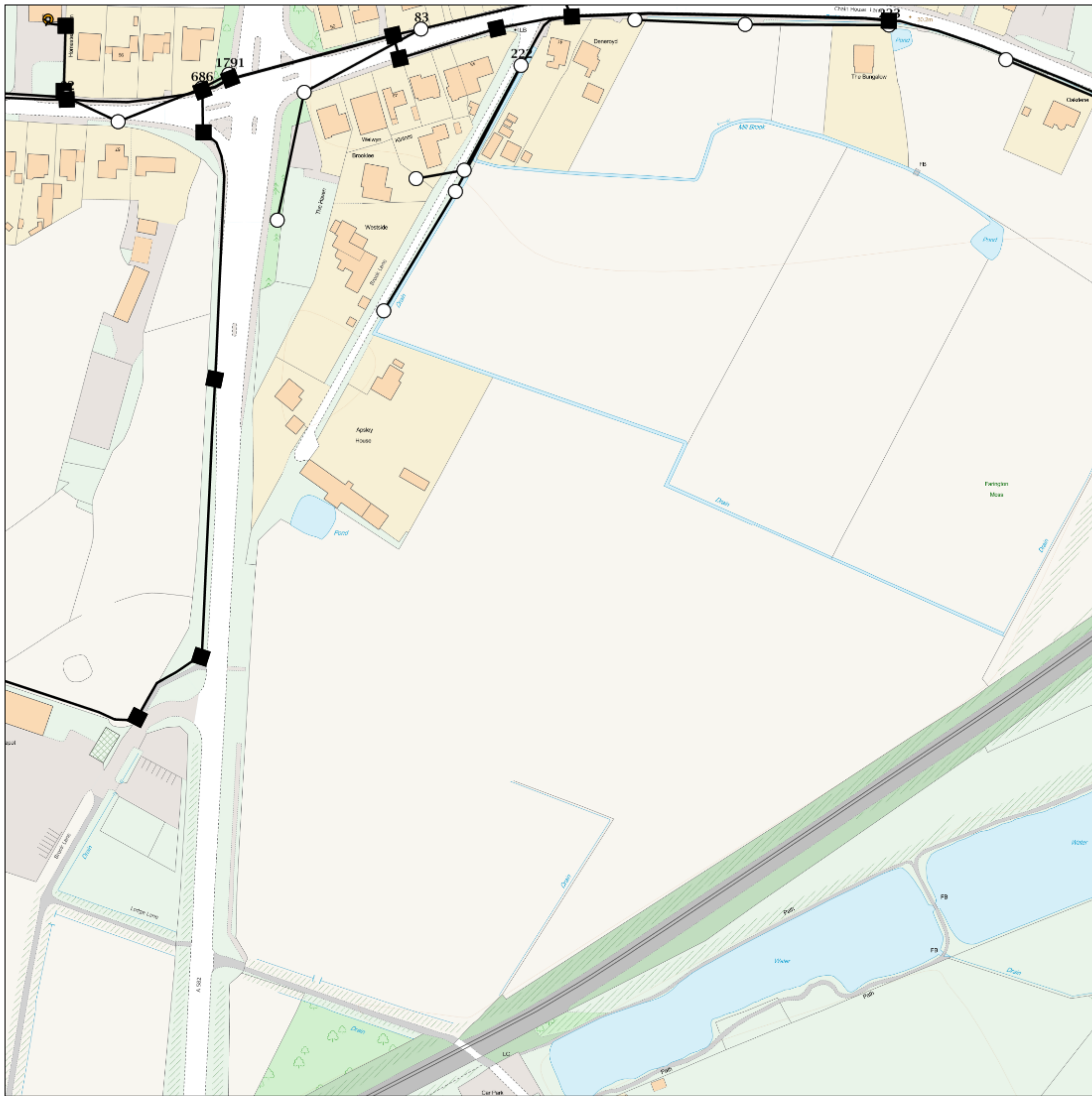
Easting/Northing : (centre) 353294,426164

Issued : 08/05/2018 14:23:14

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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

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Information valid at time of preparation

BT Ref : CYL02265W

Map Reference : (centre) SD5303325211

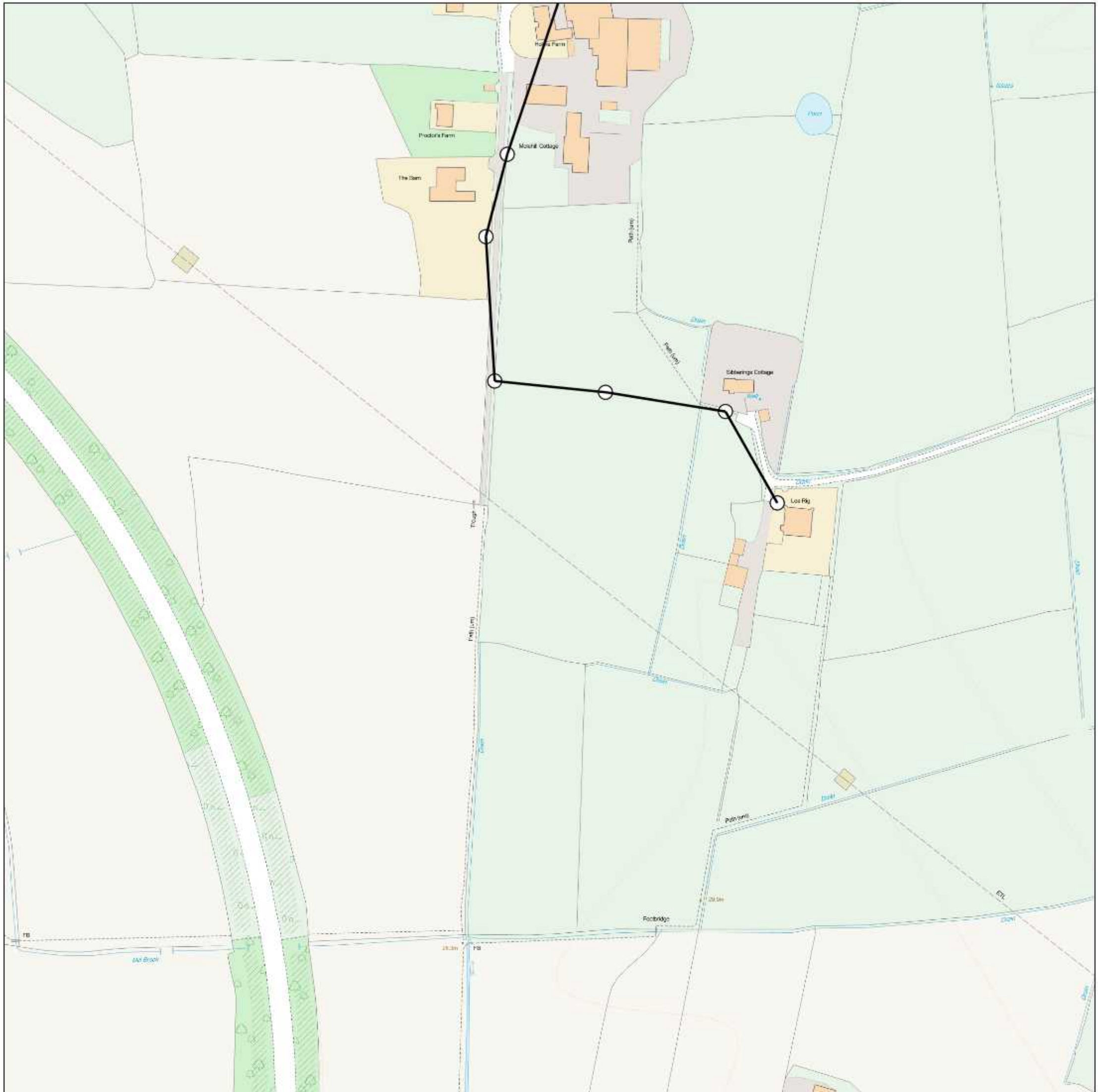
Easting/Northing : (centre) 353033,425211

Issued : 08/05/2018 14:26:27

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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.  
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Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : GWD02247N

Map Reference : (centre) SD5303725872

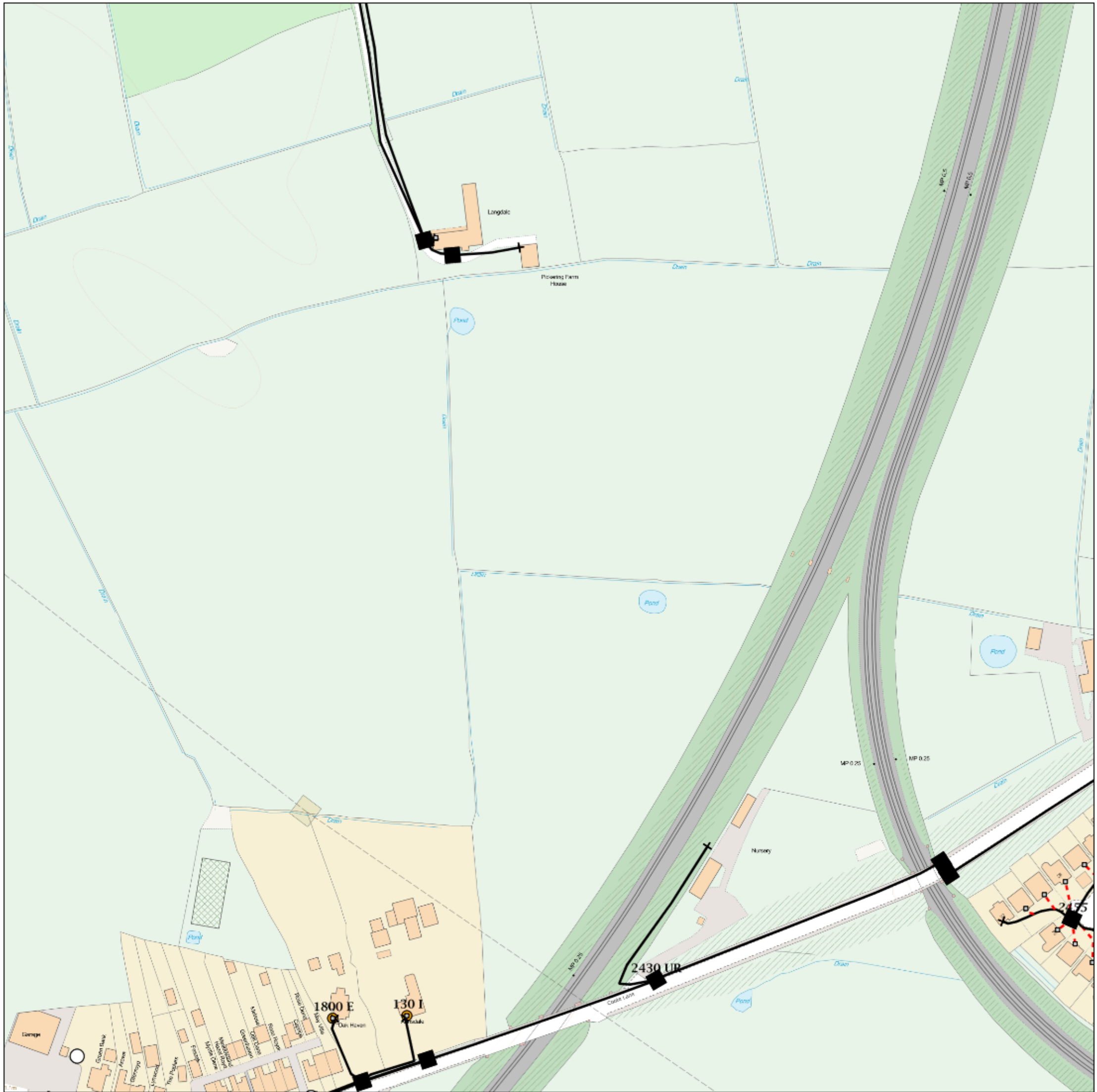
Easting/Northing : (centre) 353037,425872

Issued : 08/05/2018 14:24:14

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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.  
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Information valid at time of preparation

BT Ref : KYK02256P

Map Reference : (centre) SD5357525658

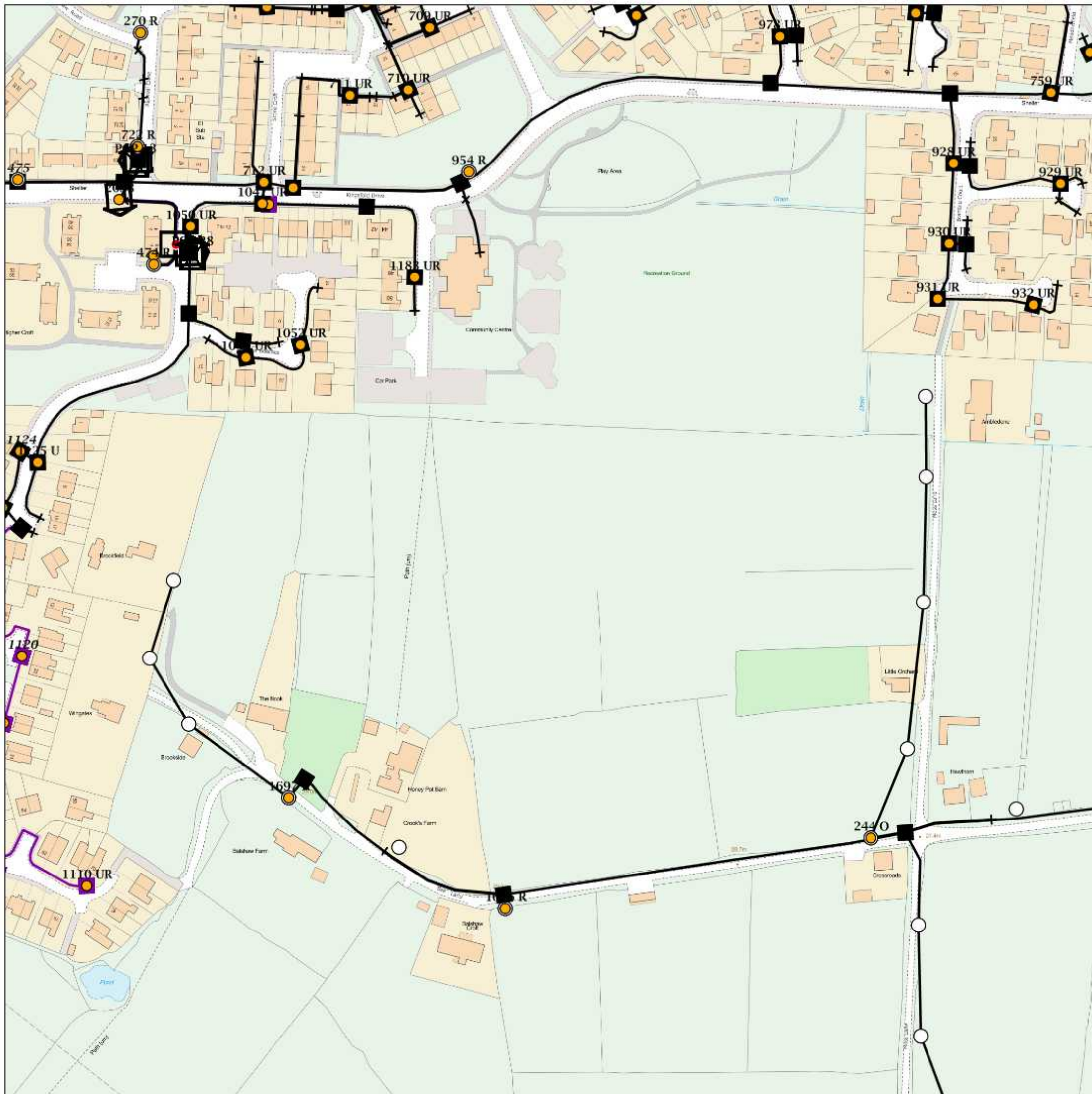
Easting/Northing : (centre) 353575,425658

Issued : 08/05/2018 14:25:37

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# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

DP	
Planned DP	
PCP	
Planned PCP	
Built	
Planned	
Inferred	
Building	
Kiosk	
Hatchings	

Pole	
Planned Pole	
Joint Box	
Change Of State	
Split Coupling	
Duct Tee	
Planned Box	
Manhole	
Planned Manhole	
Cabinet	
Planned Cabinet	

Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : LAK02209T

Map Reference : (centre) SD5285826419

Easting/Northing : (centre) 352858,426419

Issued : 08/05/2018 14:21:02

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## KEY TO BT SYMBOLS

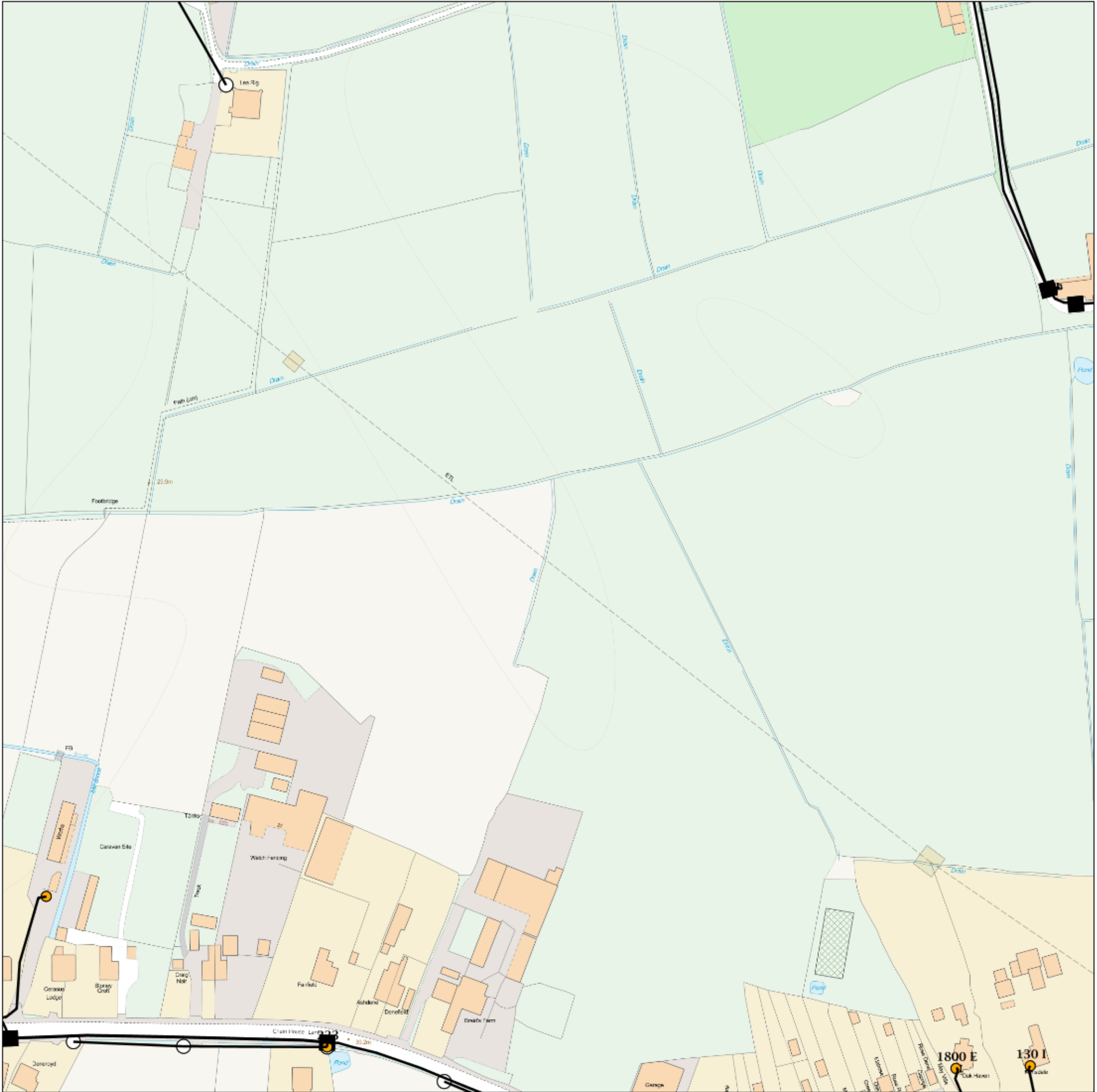
DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : PFR02258T  
Map Reference : (centre) SD5298725427  
Easting/Northing : (centre) 352987,425427  
Issued : 08/05/2018 14:25:58

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# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

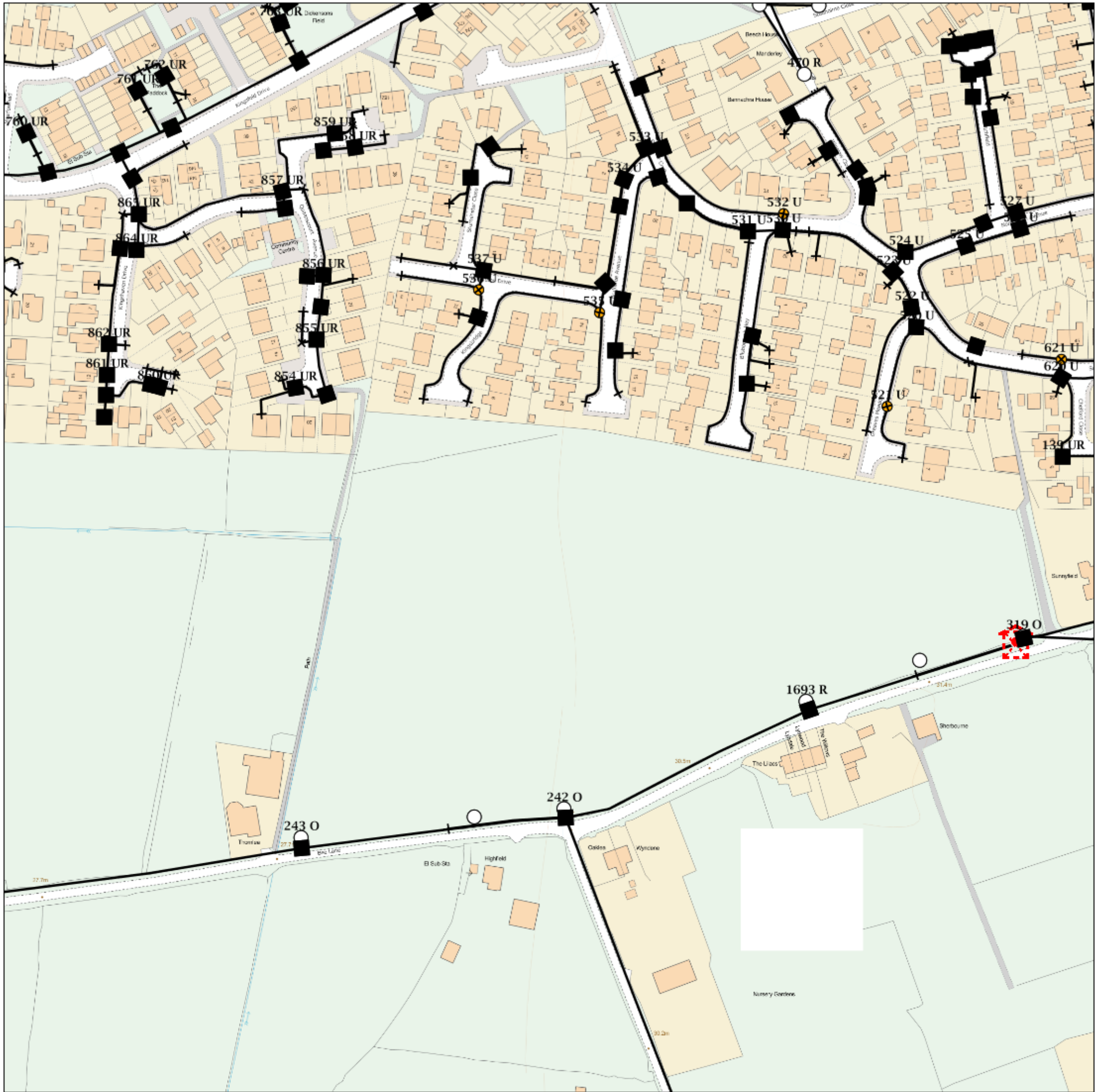
Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : REG0225 1X  
Map Reference : (centre) SD5328925681  
Easting/Northing : (centre) 353289,425681  
Issued : 08/05/2018 14:25:15

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## KEY TO BT SYMBOLS

DP	
Planned DP	
PCP	
Planned PCP	
Built	
Planned	
Inferred	
Building	
Kiosk	
Hatchings	

Pole	
Planned Pole	
Joint Box	
Change Of State	
Split Coupling	
Duct Tee	
Planned Box	
Manhole	
Planned Manhole	
Cabinet	
Planned Cabinet	

Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : RMD0226D

Map Reference : (centre) SD5334526457

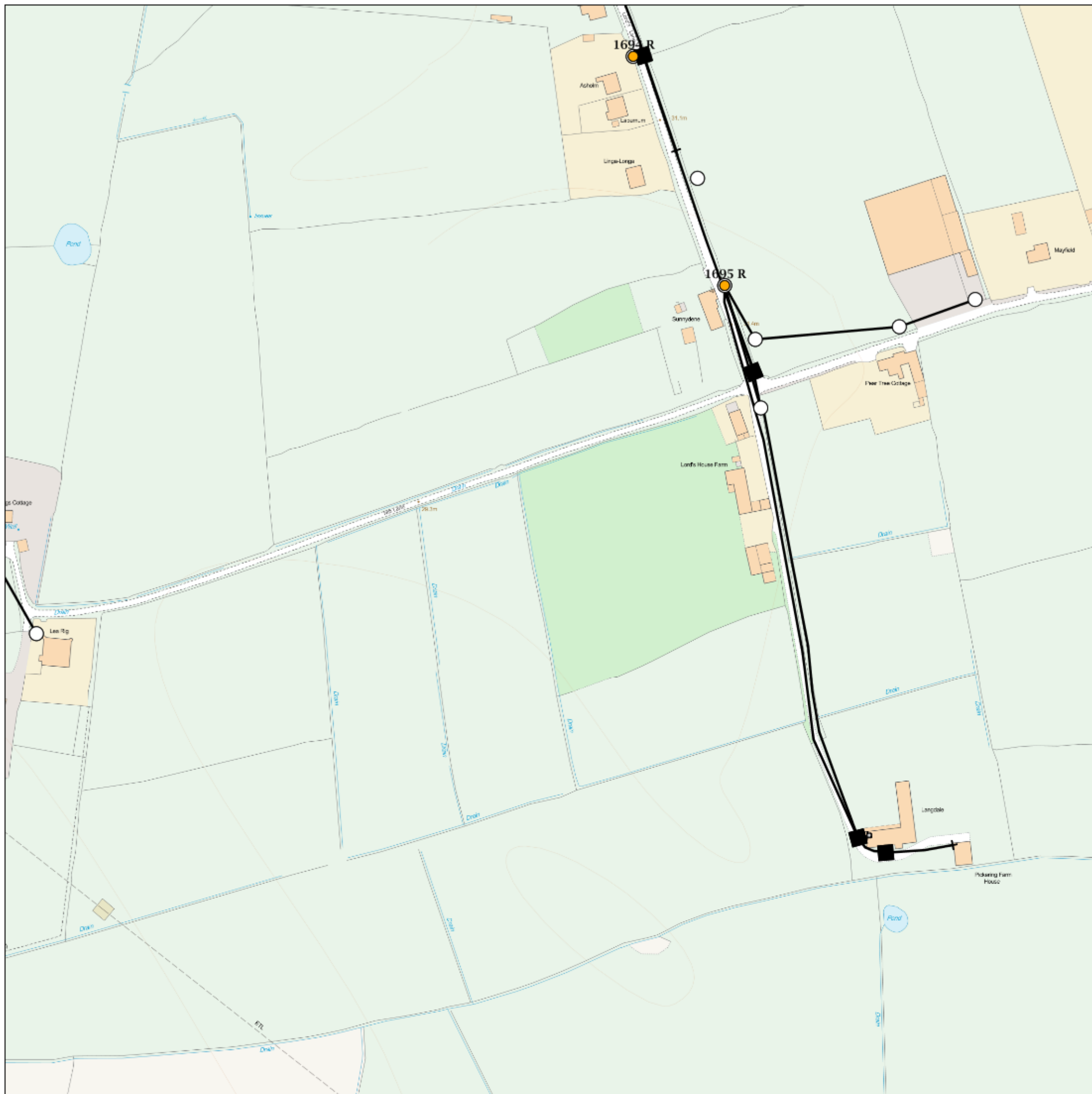
Easting/Northing : (centre) 353345,426457

Issued : 08/05/2018 14:22:18

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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

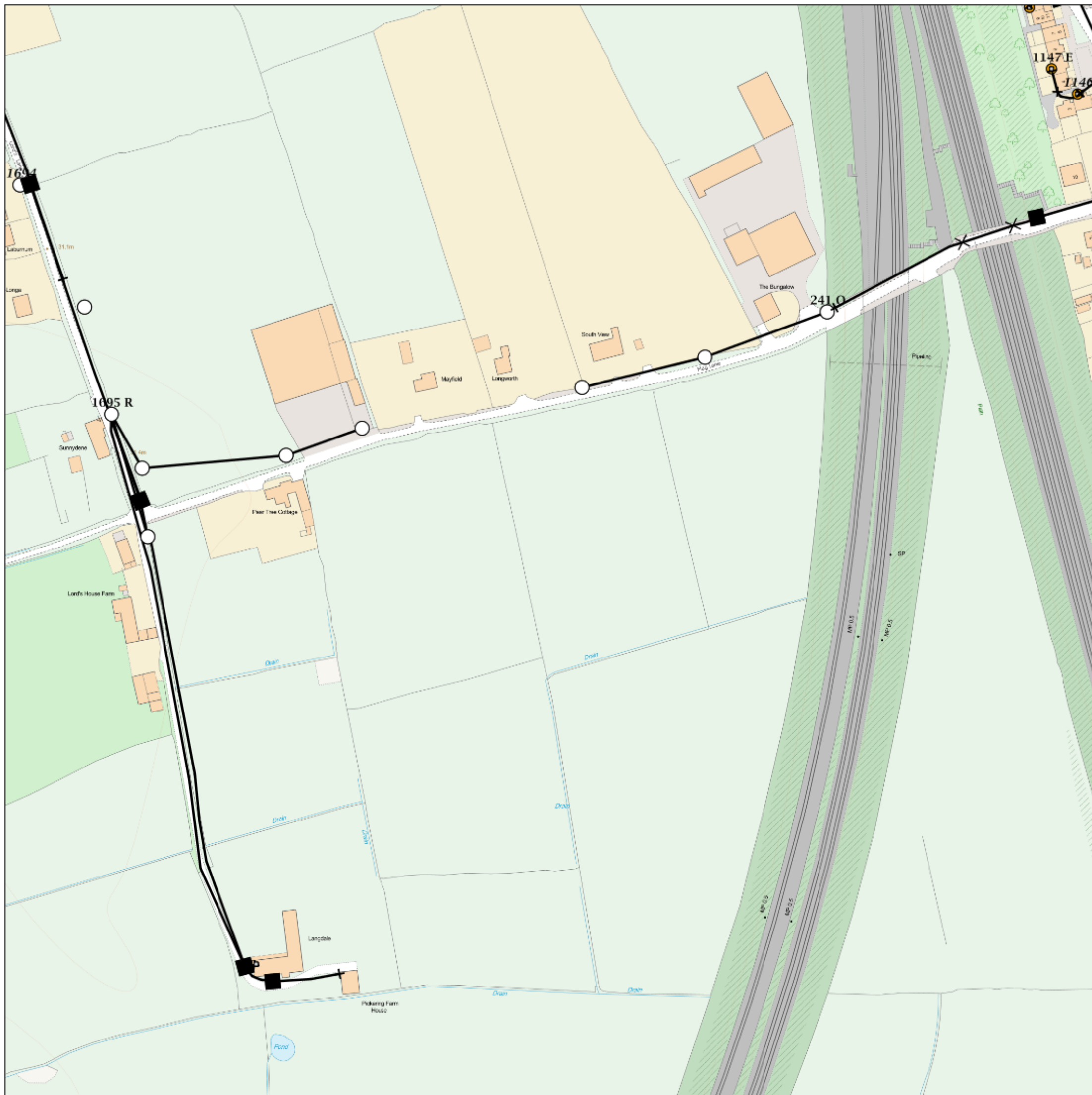
Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : RVW02246C  
Map Reference : (centre) SD5337725931  
Easting/Northing : (centre) 353377,425931  
Issued : 08/05/2018 14:24:36

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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : UJI02246Z  
Map Reference : (centre) SD5365825990  
Easting/Northing : (centre) 353658,425990  
Issued : 08/05/2018 14:24:44

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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : YDH02259V

Map Reference : (centre) SD5330425412

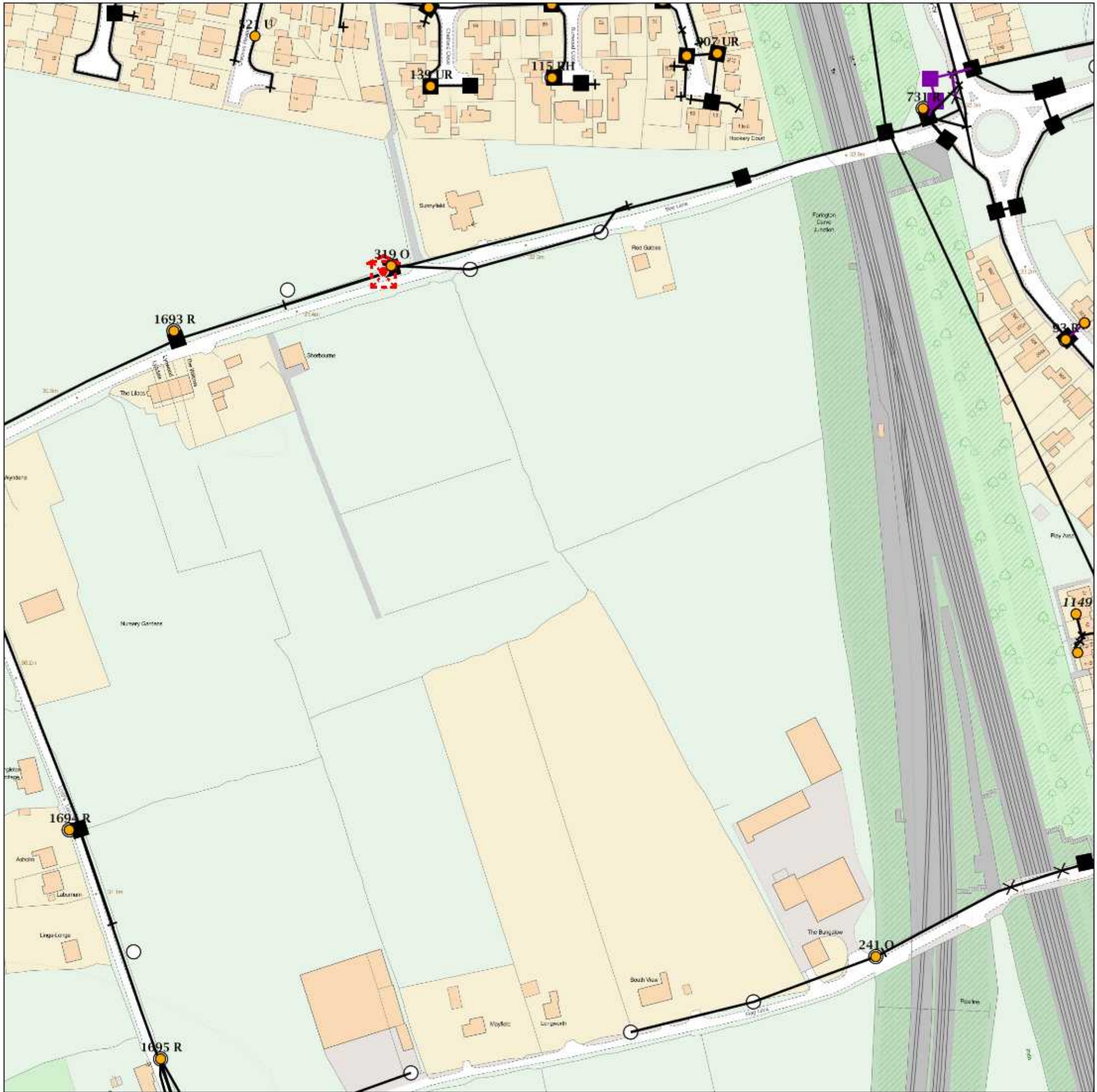
Easting/Northing : (centre) 353304,425412

Issued : 08/05/2018 14:26:11

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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

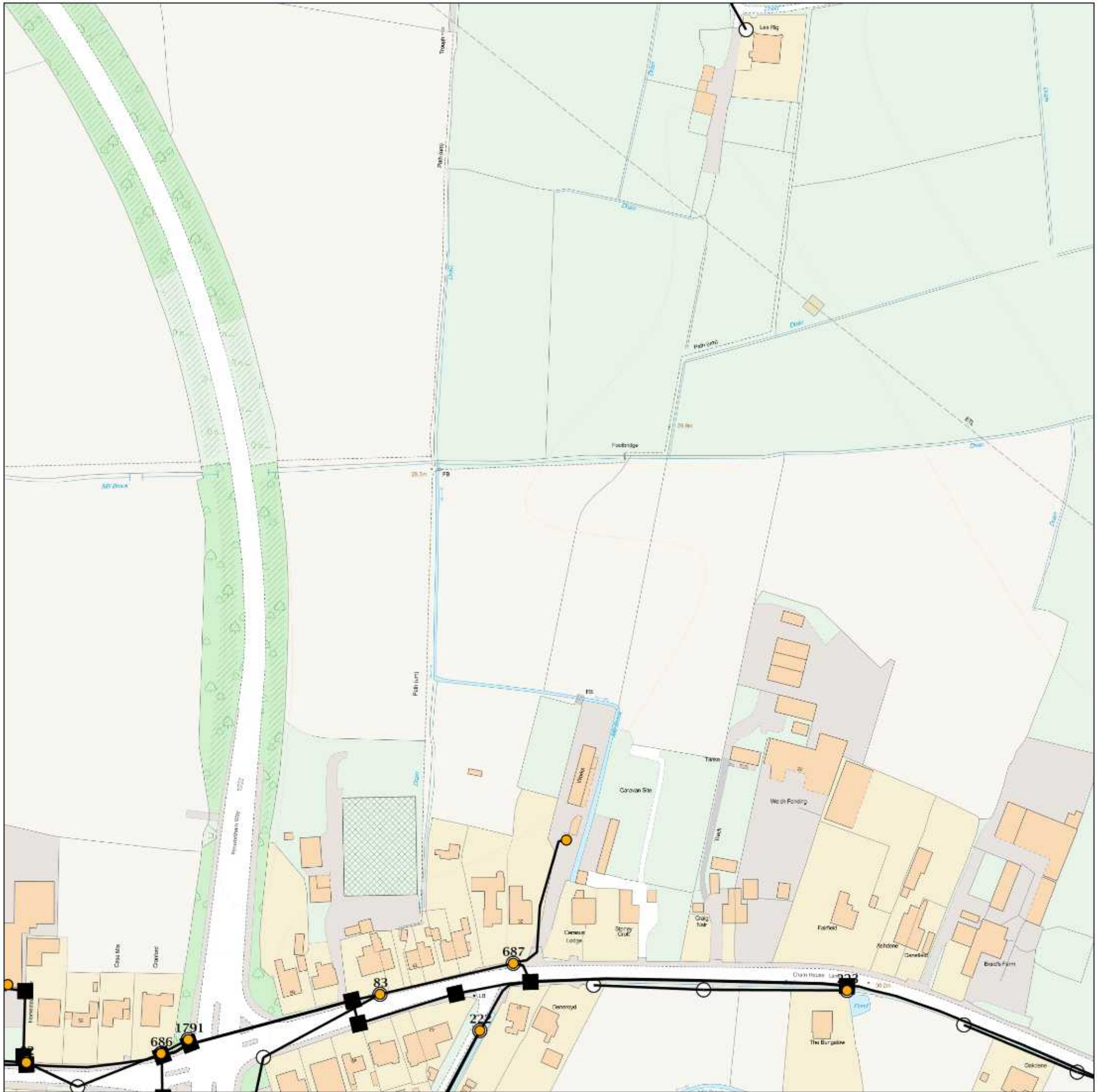
Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : YNN02235A  
Map Reference : (centre) SD5363526287  
Easting/Northing : (centre) 353635,426287  
Issued : 08/05/2018 14:23:50

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## KEY TO BT SYMBOLS

DP		Pole	
Planned DP		Planned Pole	
PCP		Joint Box	
Planned PCP		Change Of State	
Built		Split Coupling	
Planned		Duct Tee	
Inferred		Planned Box	
Building		Manhole	
Kiosk		Planned Manhole	
Hatchings		Cabinet	
		Planned Cabinet	

Other proposed plant is shown using dashed lines.  
BT Symbols not listed above maybe disregarded.  
Existing BT Plant may not be recorded.  
Information valid at time of preparation

BT Ref : ZAR02244E

Map Reference : (centre) SD5305 125655

Easting/Northing : (centre) 353051,425655

Issued : 08/05/2018 14:25:08

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Date: 02/05/18

Scale: 1:9045

Map Centre: 353043,425605

Data updated: 04/03/18

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. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2018 Ordnance Survey 100019209.

Duct, Trench



Chamber



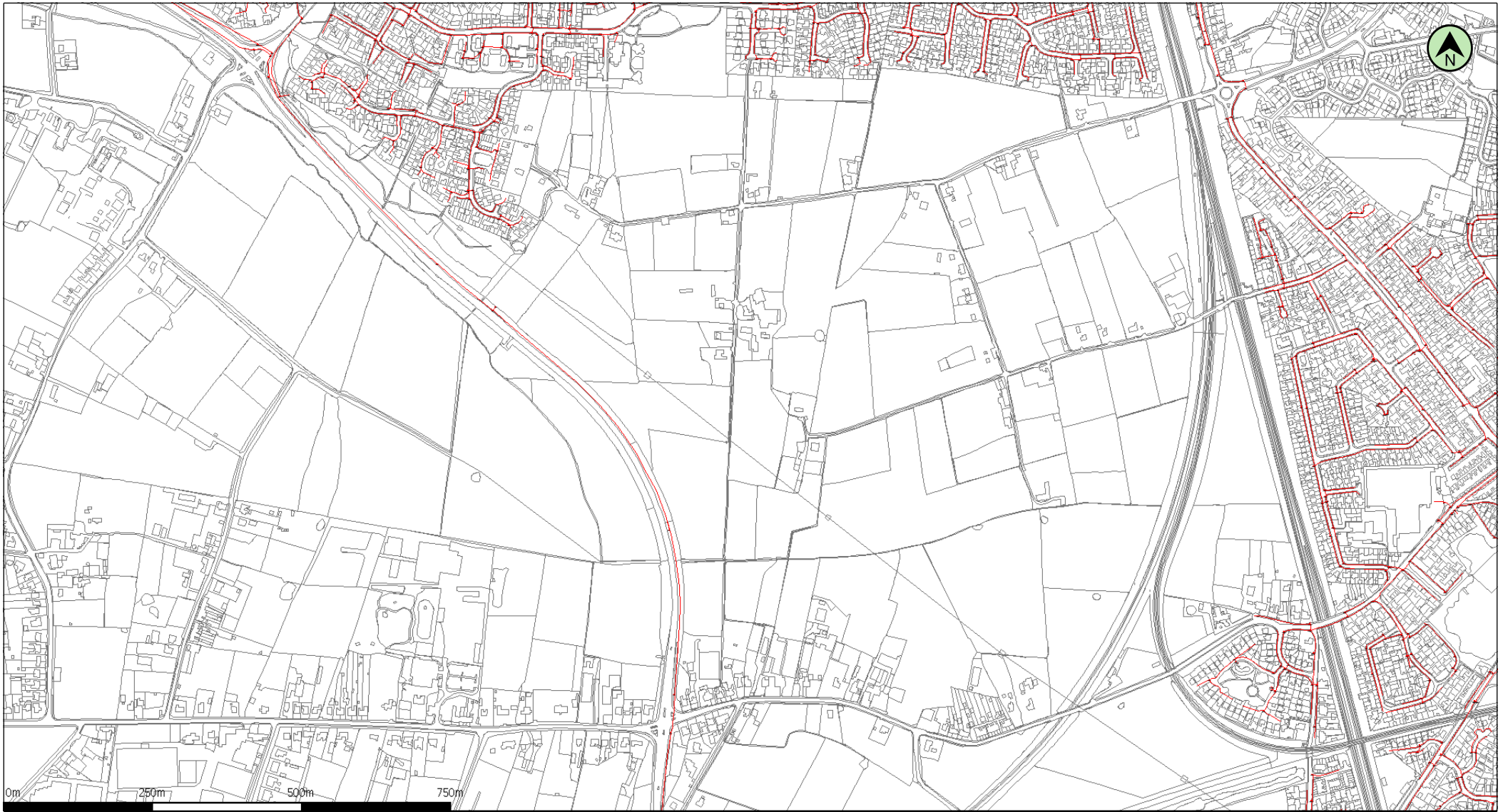
Cabinet



alasonjennifer.nathan@virginmedia.co

VM.1104874





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Date: 02/05/18

Scale: 1:9045

Map Centre: 353043,425951

Data updated: 04/03/18

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Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2018 Ordnance Survey 100019209.

Duct, Trench



Chamber



Cabinet



alasonjennifer.nathan@virginmedia.co

VM.1104874(1)


















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### Legend

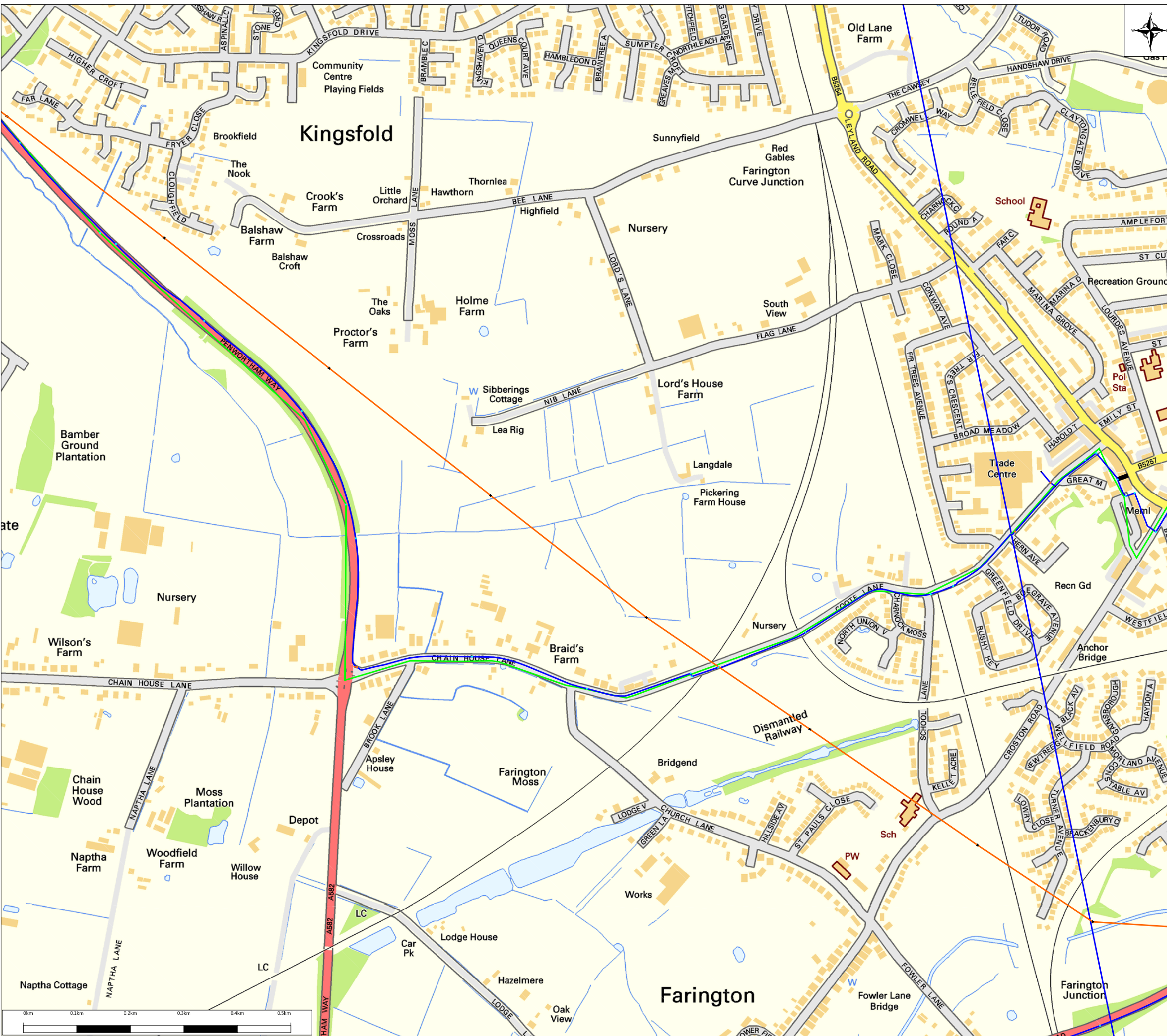
-  Site.Boundary, Default
-  Access Chamber.Location Active Carriageway Chamber
-  Access Chamber.Location Active Footway Chamber
-  Access Chamber.Joint Symbol Location
-  Street Furniture.Location
-  Point Of Interest.Location - Swept-T No Trench
-  Underground Route.Route Active - Owned
-  Underground Route.Route Active - Leased
-  Overhead Structure.Location Pylon Active
-  Overhead Structure.Joint Symbol Location
-  Overhead Route.Route Active

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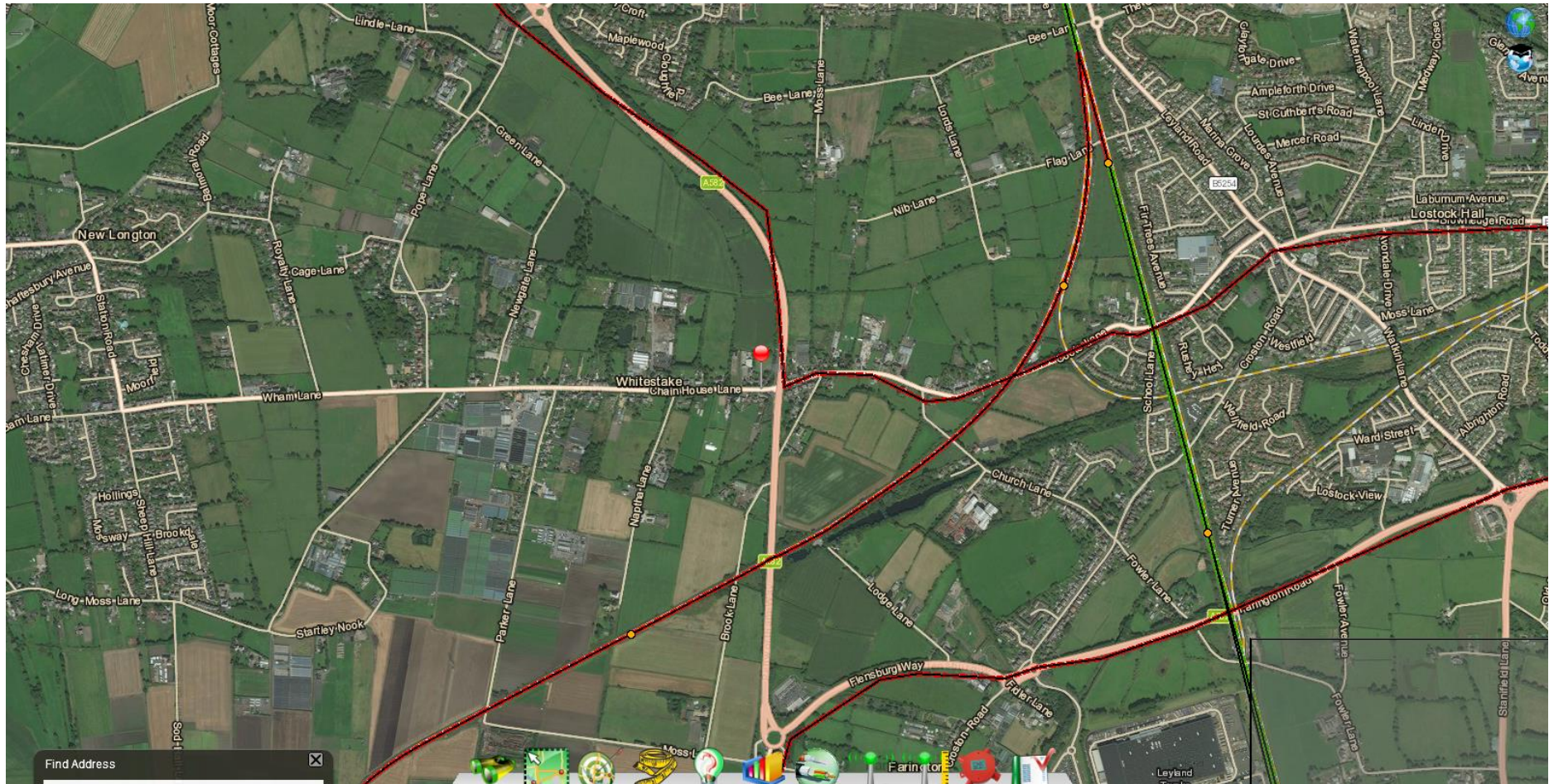
Vodafone Limited (No01471587) registered office is at Vodafone House, The Connection, Newbury, Berkshire, RG142FN

Title :	
Order Reference :	
Workpack Reference :	
Workpack Type :	
Drawing Title : Pickering Farm, Penwortham	
Planner Name : Stephen Parkinson	
Drawing Title : stephen.parkinson@vodafone.com	
Planner Contact No : 07803 259899	
Designer Name :	
Designer Email :	
Designer Contact No :	
Contractor :	
Design Name :	
Plot Date : 24/10/2018	Scale : 1:6787
Drawing Size : A3	Sheet No : 1





PR4 4LD

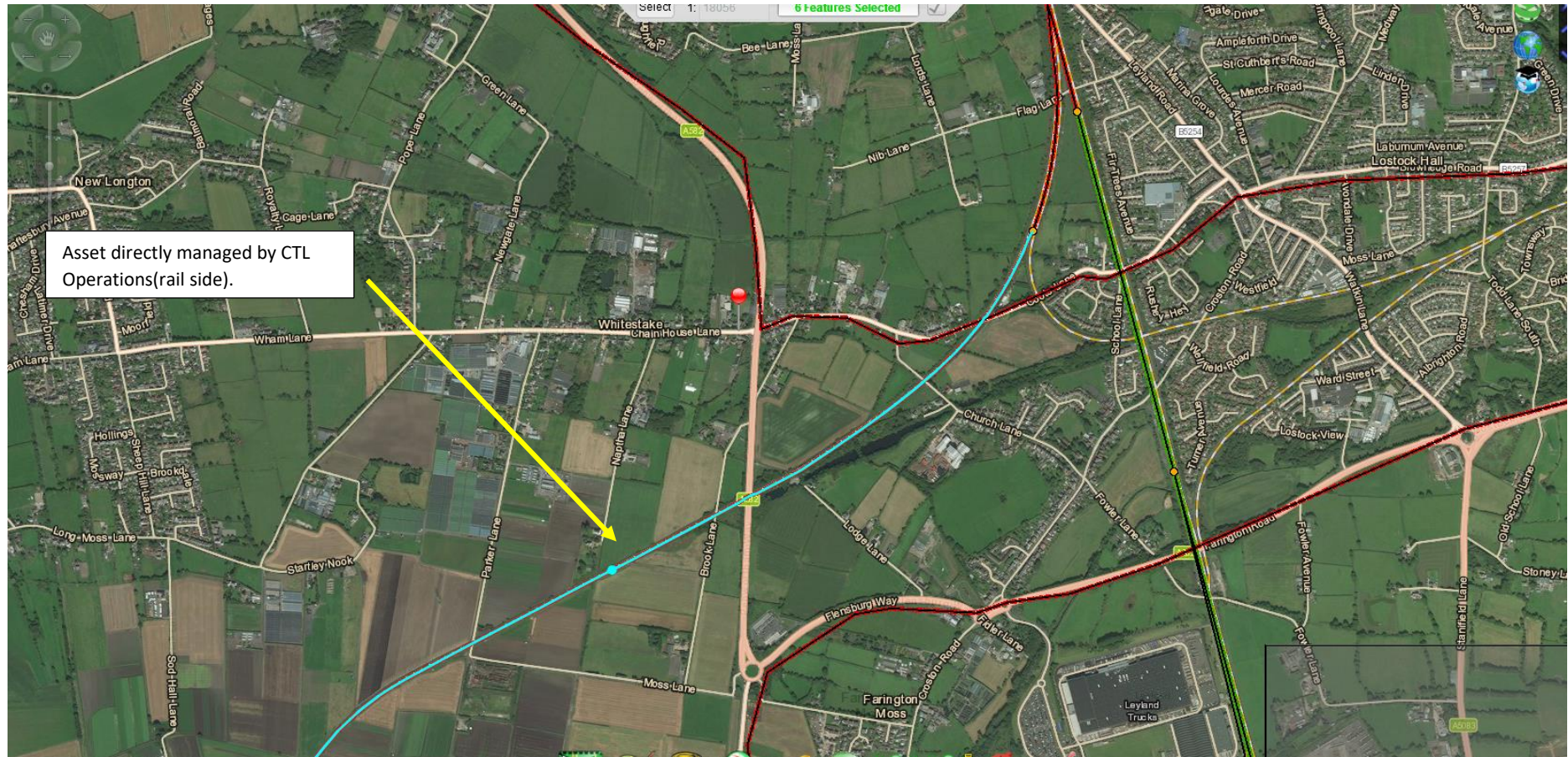






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