

# PLOTS NT02-04 NEW TOWN, VICTORIA NORTH FULL PLANNING APPLICATION

## Utilities Statement

April 2023



Far East  
Consortium



Far East Consortium

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# **PLOTS NT02-NT04 NEW TOWN, VICTORIA NORTH**

Utilities Statement

**TYPE OF DOCUMENT (VERSION) PUBLIC**

**PROJECT NO. 70079268**

**OUR REF. NO. RPT/UT01**

**DATE: APRIL 2023**

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Far East Consortium

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## **PLOTS NT02-NT04 NEW TOWN, VICTORIA NORTH**

### **Utilities Statement**

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# QUALITY CONTROL

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| Issue/revision | First issue       | Revision 1     | Revision 2 | Revision 3 |
|----------------|-------------------|----------------|------------|------------|
| Remarks        | Draft for Comment | For Planning   |            |            |
| Date           | 08/03/23          | 18/04/2023     |            |            |
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| Project number | 70079268          | 70079268       |            |            |
| Report number  | RPT/UT01          | RPT/UT01       |            |            |
| File reference | -                 | -              |            |            |



# CONTENTS

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|           |                                   |           |
|-----------|-----------------------------------|-----------|
| <b>1.</b> | <b>INTRODUCTION</b>               | <b>1</b>  |
| 1.1.      | APPROACH                          | 1         |
| 1.2.      | DEVELOPMENT PROPOSALS             | 2         |
| 1.3.      | HOUSING INFRASTRUCTURE FUND WORKS | 3         |
| 1.4.      | SCOPE OF WORKS                    | 3         |
| <b>2.</b> | <b>ELECTRICITY</b>                | <b>7</b>  |
| 2.1.      | UTILITY PROVIDERS                 | 7         |
| 2.2.      | EXISTING INFRASTRUCTURE           | 7         |
| 2.3.      | DIVERSIONS AND ABANDONMENTS       | 7         |
| 2.4.      | NEW SUPPLIES                      | 7         |
| <b>3.</b> | <b>GAS</b>                        | <b>11</b> |
| 3.1.      | UTILITY PROVIDERS                 | 11        |
| 3.2.      | EXISTING INFRASTRUCTURE           | 11        |
| 3.3.      | DIVERSIONS AND ABANDONMENTS       | 11        |
| 3.4.      | NEW SUPPLIES                      | 11        |
| <b>4.</b> | <b>WATER</b>                      | <b>15</b> |
| 4.1.      | UTILITY PROVIDERS                 | 15        |
| 4.2.      | EXISTING INFRASTRUCTURE           | 15        |
| 4.3.      | DIVERSIONS AND ABANDONMENTS       | 15        |
| 4.4.      | NEW SUPPLIES                      | 15        |
| <b>5.</b> | <b>SEWERAGE</b>                   | <b>19</b> |
| 5.1.      | UTILITY PROVIDERS                 | 19        |
| 5.2.      | EXISTING INFRASTRUCTURE           | 19        |

---

|      |                             |    |
|------|-----------------------------|----|
| 5.3. | DIVERSIONS AND ABANDONMENTS | 19 |
| 5.4. | NEW SUPPLIES                | 19 |

## 6. DATA & TELECOMMUNICATIONS 23

---

|      |                             |    |
|------|-----------------------------|----|
| 6.1. | UTILITY PROVIDERS           | 23 |
| 6.2. | EXISTING INFRASTRUCTURE     | 23 |
| 6.3. | DIVERSIONS AND ABANDONMENTS | 24 |
| 6.4. | NEW SUPPLIES                | 24 |

---

## ***TABLES***

|                                     |    |
|-------------------------------------|----|
| Table 1 – Schedule of Accommodation | 3  |
| Table 2 - Peak Electricity Demand   | 8  |
| Table 3 – Mains Water Demand        | 16 |
| Table 4 – Foul Water Discharge      | 20 |

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## ***APPENDICES***

### APPENDIX A

#### SITE LAYOUT PLANS

### APPENDIX B

#### UTILITIES ASSET RECORDS

### APPENDIX C

#### HIF ELECTRICAL WORKS

### APPENDIX D

#### PLOTS NT02, NT03 AND NT03 UTILITIES PLAN



# EXECUTIVE SUMMARY

This Utilities Statement has been prepared by WSP on behalf of Far East Consortium (FEC) in support of a full planning application for residential-led development at Plots NT02, NT03 and NT04 on Dantzic Street, in the New Town area of Victoria North, Manchester.

The application Site for Plots NT02, NT03 and NT04 measures approximately 2.81 hectares and forms part of the wider Victoria North (formerly known as the Northern Gateway) Strategic Regeneration area. The residential scheme will provide a total of 1,551 dwellings in the form of apartments, townhouses and maisonettes and will be supported by resident's amenity space within a 'clubhouse' together with flexible non-residential uses at lower levels and improvement works to Dantzic Street.

Concurrently to this full planning application, a separate but interrelated outline planning application, on land immediately north of the current application site at Red Bank, on a larger site measuring approximately 10.89 hectares, is being submitted by FEC. The outline application is submitted with all matters reserved and forms part of the JV partnership's first phase of residential-led mixed-use development in the Red Bank Neighbourhood.

This report presents a strategy for the supply of new utility services to the NT02-NT04 site and for dealing with any existing services that may be present within the site boundary.

Dialogue with the various utility operators is ongoing and therefore strategies will be further refined as design and construction progresses.

Records of existing utilities assets in the vicinity of the site have been reviewed to assess the impact of development on existing utility networks. Incumbent operators of utility infrastructure have been contacted to establish the requirements for providing new utility supplies to the site.

Although a GPR survey has been carried out detailed record drawings of private services within the site have not been made available for review and therefore there remains the possibility of encountering uncharted services during development. Further surveys and assessment should be carried out as appropriate prior to construction.

Strategic infrastructure works to enable development of the Victoria North area is being delivered by Manchester City Council (Housing Infrastructure Fund (HIF) works). This includes provision of utilities infrastructure for the NT02-04 and Red Bank developments. Reference to these works is made in the report where appropriate

## Electricity

Electricity North West (ENWL) operate the existing electricity network in the vicinity of the site. Underground 6.6kV and low voltage (LV) cables are present within the site boundary associated with the site's former use. These cables are to be abandoned prior to development.

6.6kV and LV networks are also present in Dantzic Street. A 33kV main is located in Bromley Street, to the south of the railway viaduct. Diversion of LV cables within Dantzic Street and Dalton Street maybe required to facilitate highway improvement works.

Existing high voltage (HV) networks do not have sufficient capacity to supply the development. The total electrical demand for the site is assessed to be 4.7MVA, assuming electric heating and some provision for electric vehicle (EV) charging.

As part of the wider planned regeneration of the Victoria North area, a strategy for the supply of power to the Redbank and Dantzic Street development plots, including Plots NT02, NT03 and NT04, has been developed by Manchester City Council via the HIF funded works. The HIF works include delivery of a new 6.6kV ring main within Dantzic Street, fed from the ENWL Queens Park primary substation. 6.6kV connections to Plots NT02, NT03 and NT04 will be taken from the ring main into dedicated substations within each plot.

## **Gas**

Cadent Gas operate gas distribution infrastructure in the local area. An 18 inch Medium Pressure (MP) main crosses through Plots NT02 and NT03, running between Dantzic Street and Bromley Street. Diversion of this main is required to enable development. A route and associated easement have been proposed, although this is subject to detailed design and agreement with Cadent.

Low Pressure (LP) gas mains are present in Dantzic Street. A LP connection enters the site from Dantzic Street. This main is to be abandoned prior to development.

No new gas connections to the proposed development plots are currently proposed.

## **Water**

Potable water supply infrastructure in the area is operated by United Utilities (UU). 250mm and 90mm mains are present in Dantzic Street. The 90mm main feeds a 4 inch and a 3 inch connection into the site. These connections are to be abandoned. Diversion of UU water mains within Dantzic Street and Dalton Street maybe required to facilitate highway improvement works.

The total water demand for the site, including potable and fire water use, is estimated to be 30.32l/s. Separate potable and fire main connections are to be provided to each plot from the existing 250mm diameter UU main within Dantzic Street.

## **Sewerage**

United Utilities (UU) operate the public sewerage system in the vicinity of the site. A 1550mm diameter and a 300mm combined sewer are present in Dantzic Street. A 480mm x 630mm combined sewer is located in Dalton Street. A 375mm combined sewer and a 375mm x 475mm combined sewer are located within the site connecting to the 1550mm combined sewer in Dantzic Street.

The 375mm x 475mm combined sewer within the site is to be abandoned. Further investigation into the status of the 375mm combined sewer within the site is required and may be diverted or abandoned as appropriate.

New connections are proposed into the combined sewers in Dantzic Street and Dalton Street for the proposed development plots. A total peak discharge of 72 l/s has been calculated. Details of the proposed discharges has been shared with UU and comment is awaited.



## **Data & Telecommunications**

Openreach operate data and telecommunications infrastructure in the area comprising above and below ground networks in Dantzic Street. There are potentially live existing connections to the development plots which are to be abandoned. Diversion of Openreach cables within Dantzic Street maybe required to facilitate highway improvement works.

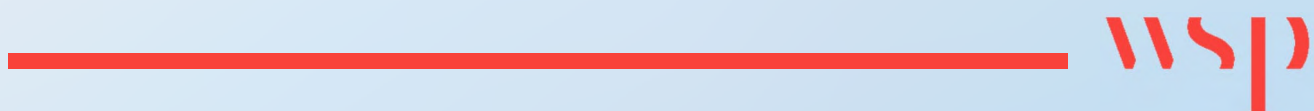
New Openreach connections to each plot are proposed. Openreach provide Fibre-to-the-premises (FTTP) connections for free to all residential developments of 20 dwellings or more. Ducts and chambers will be provided by the developer.

Virgin Media (VM) do not have infrastructure in the immediate vicinity. The nearest VM network is at Red Bank to the north and further south-west along Dantzic Street. It is proposed to install ducts and chambers within the development plots for future connection to the VM network, should VM decide it is commercially viable to extend their network.

There are Vodafone and Instalcom Technology cables to the south of the site, although not impacted by the development works.

# 1

## INTRODUCTION

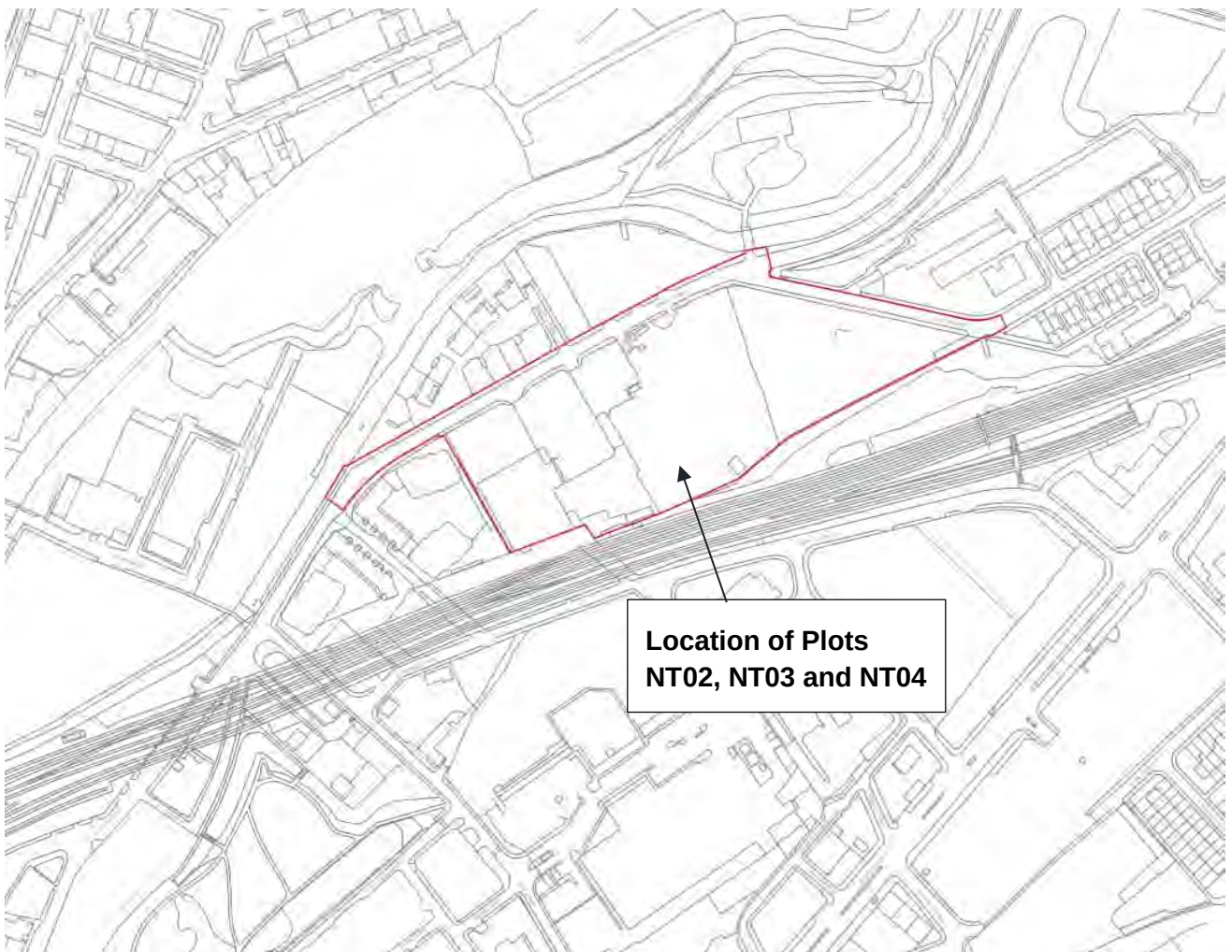


# 1. INTRODUCTION

## 1.1. APPROACH

- 1.1.1. WSP has been commissioned by FEC to conduct an assessment of the existing utilities infrastructure in relation to its proposed residential-led development at Plots NT02-04, south of Dantzic Street, in the New Town area of Victoria North. This resulting Utilities Statement has been prepared to support a full planning application for a total of 1,551 dwellings at the site in the form of apartments, townhouses and maisonettes which will be supported by residents' amenity space within a 'clubhouse' together with flexible non-residential uses at lower levels.

**Figure 1-1 – Plots NT02, NT03 and NT04 Location Plan**



- 1.1.2. This report is intended to provide a summary of the strategies for dealing with existing utilities (specifically electricity, gas, water, sewerage, data and telecommunications) within the site boundary, including requirements for relocation or abandonment; and also for the provision of new utility supplies including upgrades of existing utility networks. Surface water drainage is excluded from the scope of this assessment. Separate studies are being undertaken to assess the requirements for disposal of surface water from the site and is provided in the Flood Risk

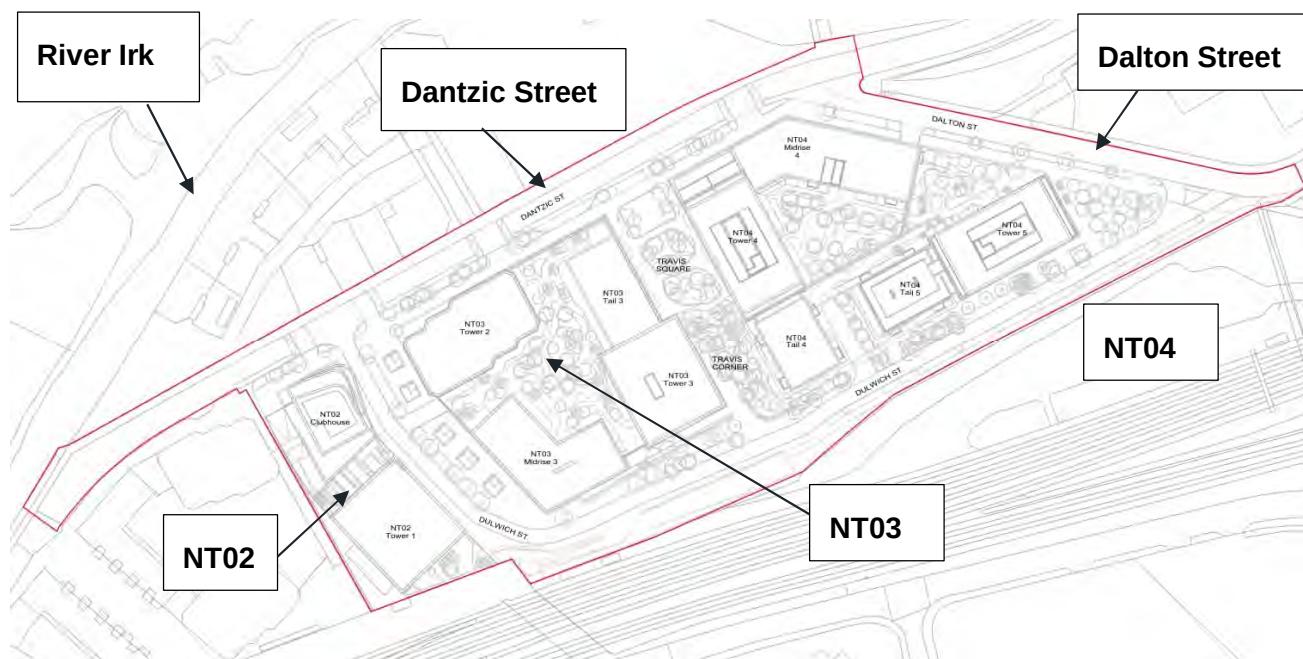
Assessment and Drainage Strategy report which is submitted separately to support this planning application.

- 1.1.1.3. The report provides estimates of the likely utilities demands based on high level information regarding the nature of development, anticipated number of dwellings, population and/or floor area. Further, more detailed assessment should be carried out as design progresses.
- 1.1.1.4. The assessment is based on information received from utilities providers. The location of existing utilities in the vicinity of the site is based on records of each provider's assets and has been supplemented in some areas with Ground Penetrating Radar (GPR) survey information to identify accurate line and level where possible. There remains potential for further uncharted services, including privately owned apparatus, to be located in and around the site which may impact on development. Assessment of these is excluded from this report.

## 1.2. DEVELOPMENT PROPOSALS

- 1.2.1. The development seeks to deliver up to 1,551 residential dwellings, associated amenities, and 2,147m<sup>2</sup> of non-residential uses (Use Classes E, F or Sui Generis) across three plots (plots NT02, NT03 and NT04). The dwellings are to comprise apartments, townhouses and maisonettes units, supported by resident's amenity space, together with non-residential uses at lower levels. A proposed site layout is provided in Appendix A.

**Figure 1-2 - Plots NT02, NT03 and NT04 Proposed Site Plan**



- 1.2.2. The development plots are located to the south of Dantzig Street. The Site area measures approximately 2.81 hectares and comprises primarily hard standing. There is a surface level car park in the western part of the site, and a single substantial warehouse building in the southwestern corner. Until recently the existing warehouse building was disused, however the premise gained temporary consent in September 2022 to be used as arts, music and cultural venue/event space for a period of 2 years.

- 1.2.3. There are piles of earth/ rubble in the eastern part of the site, which remain present following the site being occupied by a 'topsoil' supply company. There are limited poor quality trees and shrubbery located within the Site boundary, particularly along the interface with Dalton Street, and the centre of the southern periphery, adjacent to the railway tracks.
- 1.2.4. The Victoria Riverside development is currently under construction immediately to the west of the site.
- 1.2.5. The site is proposed to be partially bisected from north to south by the new residential access street, Dulwich Street, which is a private gated street to prevent access to this part of the site

**Table 1 – Schedule of Accommodation**

| Plot | No of Dwellings | Non-Residential GIA (m <sup>2</sup> ) |
|------|-----------------|---------------------------------------|
| NT02 | 316             | 434                                   |
| NT03 | 579             | 1,030                                 |
| NT04 | 656             | 683                                   |
|      | <b>1,551</b>    | <b>2,147</b>                          |

### 1.3. HOUSING INFRASTRUCTURE FUND WORKS

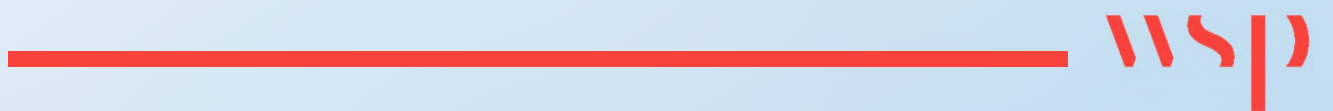
- 1.3.1. A package of strategic infrastructure works (Housing Infrastructure Fund (HIF) works) to enable development of the Victoria North area is being delivered by Manchester City Council (MCC). This includes provision of utilities infrastructure for the Red Bank Neighbourhood area and the New Town development plots on Dantzic Street, including new high voltage electricity cables, water mains, foul sewers and telecommunications ducting.
- 1.3.2. Planning permission for the HIF works has been granted (planning ref: 133143/VO/2022).
- 1.3.3. Details of the specific HIF works relevant to the proposed development are referenced in this report.

### 1.4. SCOPE OF WORKS

- 1.4.1. In preparation of this assessment, the following activities have been carried out:
  - Baseline assessment of the existing utilities infrastructure within the vicinity of the site, identifying the location of existing apparatus and constraints to development;
  - Identify the need for diversion of existing infrastructure to facilitate development;
  - Estimate the likely utility demands of the development based on the proposed land use;
  - Propose a strategy for connection of the proposed development to utility networks, identify points of connection and comment on the need for off-site network reinforcement;
  - Identify principal on-site utilities infrastructure requirements.

# 2

## ELECTRICITY



## **2. ELECTRICITY**

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### **2.1. UTILITY PROVIDERS**

- 2.1.1. Electricity infrastructure in the area is operated by Electricity North West (ENWL). Contact details are provided below:

Electricity North West Ltd.  
Hartington Road  
Preston  
Lancashire  
PR1 8AF

### **2.2. EXISTING INFRASTRUCTURE**

- 2.2.1. ENWL records indicate 6 – 6.6kV and Low Voltage (LV) cables in Dantzic Street. 33kV cables are present to the south of the site beyond the railway viaduct, in Bromley Street.
- 2.2.2. 5 no. LV cables are shown entering the site from Dantzic Street. These would have served historic facilities on the site, most of which are now demolished. The LV cable serving the existing warehouse on Plot NT02 may however be live.

### **2.3. DIVERSIONS AND ABANDONMENTS**

- 2.3.1. Existing LV cables entering Plots NT02, NT03 and NT04 are to be abandoned prior to development.
- 2.3.2. No diversions of existing ENWL assets within the NT02-04 plot boundaries are required.
- 2.3.3. Diversion of ENWL LV cables within Dantzic Street and Dalton Street may be required to facilitate highway improvement works, subject to detailed design proposals and confirmation of cable location.

### **2.4. NEW SUPPLIES**

- 2.4.1. New electrical connections are required to serve each plot. An assessment of electrical demand has been carried out to inform design of the required connections. A summary of the demand assessment is provided in Table 2 below.

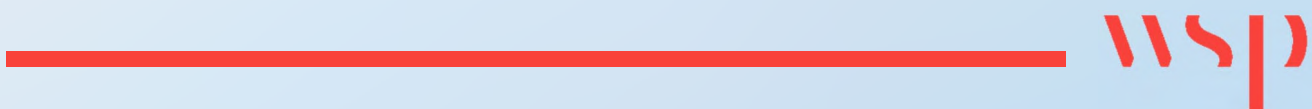
**Table 2 - Peak Electricity Demand**

| Plot                                            | Residential |            | Non Resi / Commercial |            | EV Charging |            | Total Load (kVA) |
|-------------------------------------------------|-------------|------------|-----------------------|------------|-------------|------------|------------------|
|                                                 | Dwellings   | Load (kVA) | GIA (m <sup>2</sup> ) | Load (kVA) | Spaces      | Load (kVA) |                  |
| NT02                                            | 316         | 790        | 434                   | 130        |             |            | 920              |
| NT03                                            | 579         | 1,448      | 1,030                 | 309        |             |            | 1,757            |
| NT04                                            | 656         | 1,640      | 683                   | 205        |             |            | 1,845            |
| EV charging (20% of total carparking provision) |             |            |                       |            | 25          | 187        | 187              |
|                                                 |             | 3,878      |                       | 644        |             | 187        | 4,709            |

- 2.4.3. The loads in Table 2 are based on electric heating to all residential dwellings and commercial property, with an allowance for electric vehicle charging spaces as shown.
- 2.4.4. Through discussion with ENWL, it is apparent that new HV infrastructure is required in the area to support Plot NT02 NT03, NT04, and the wider Redbank and Dantzic Street developments. This will comprise 4 no. 6.6kV ring main circuits. The first three of these, including that which is to serve Plots NT02, NT03 and NT04, are to be fed from the Queens Park primary substation, approximately 1.5km north-west of the site.
- 2.4.5. A 6.6kV ring main circuit is proposed within Dantzic Street to serve plots NT02, NT03 and NT04. Delivery of the ring main is being managed by the Housing Infrastructure Fund (HIF) scheme. Refer to Appendix C.
- 2.4.6. Individual HV connections are to be provided from the ring main into dedicated substations within each plot.

3

GAS



## **3. GAS**

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### **3.1. UTILITY PROVIDERS**

3.1.1. Gas infrastructure in the area is currently operated by Cadent Gas.

3.1.2. Contact details are provided below:

Cadent Gas Ltd  
Business Services  
PO Box 7084  
Wolverhampton  
WV1 9AW

### **3.2. EXISTING INFRASTRUCTURE**

3.2.1. Cadent Gas records indicate the presence of an 18 inch steel Medium Pressure (MP) main within Plots NT02 and NT03, running between Dantzic Street and Bromley Street, passing under the railway viaduct. An easement of total width 6m (3m either side of centreline) is associated with the main as it passes through the development plots.

3.2.2. In addition, there are 30 inch, 18 inch and 12 inch cast iron Low Pressure (LP) mains within Dantzic Street. A 90/63mm LP main is shown entering Plot NT02 from Dantzic Street to serve the existing warehouse building.

3.2.3. A 63mm PE LP main is present within Dalton Street.

### **3.3. DIVERSIONS AND ABANDONMENTS**

3.3.1. The 18 inch MP main crossing Plots NT02 and NT03 clashes with the proposed building layout within Plot NT03 and therefore requires diversion. The route of the diversion is intended to pass through the proposed Dulwich Street between buildings of NT02 and NT03. Cadent have advised that a thrust block will need to be constructed to form the diversion and abandon the section of existing main. Detailed planning of this diversion, including proposed route of the main and easement, design and location of the thrust block is ongoing through discussion with Cadent. Initial proposals for the diversion are shown on drawing RBD-WSP-00-XX-DR-CV-0019, in Appendix D.

3.3.2. As part of the MP diversion works, Cadent intend to abandon the existing 90/63mm LP connection to the existing warehouse unit in Plot NT02. The 12 inch LP main in Dantzic Street and 63mm LP main in Dalton Street are also to be abandoned.

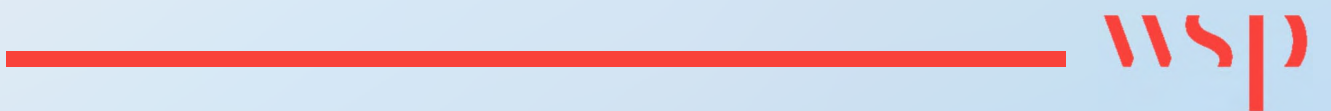
3.3.3. A C3 budget estimate for the diversion works has been obtained from Cadent.

### **3.4. NEW SUPPLIES**

3.4.1. No new gas connections to the proposed development plots are currently proposed. This is primarily due to the forthcoming change in Building Regulations, whereby from 2025 gas central heating will not be permitted to new residential dwellings.

4

WATER



## **4. WATER**

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### **4.1. UTILITY PROVIDERS**

- 4.1.1. The incumbent provider for mains water in the area is United Utilities (UU). Contact details are provided below:

United Utilities Water Ltd  
Developer Services Water  
Windermere House  
Lingley Green Avenue  
Warrington  
WA5 3LP

### **4.2. EXISTING INFRASTRUCTURE**

- 4.2.1. United Utilities mains water asset records show 250mm PE, and 90mm PE mains within Dantzic Street. A 100mm PE main is present in Dalton Street.
- 4.2.2. A 3 inch cast iron connection and a 4 inch AC connection are shown entering Plot NT03, fed from the 90mm main within Dantzic Street. It is possible that the 4 inch main feed the existing warehouse building in Plot NT02.

### **4.3. DIVERSIONS AND ABANDONMENTS**

- 4.3.1. The existing 3 inch and 4 inch connections within the development site are to be abandoned.
- 4.3.2. No diversion of UU water mains within the NT02-04 development plots are required.
- 4.3.3. Diversion of UU water mains within Dantzic Street and Dalton Street may be required to facilitate highway improvement works, subject to detailed design proposals and confirmation of pipe location.

### **4.4. NEW SUPPLIES**

- 4.4.1. New mains water connections are required to serve each plot. An assessment of potable and fire main demand has been carried out to inform design of the required connections. A summary of the demand assessment is provided in Table 3 below:

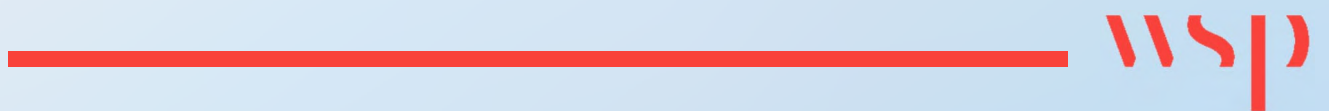
**Table 3 – Mains Water Demand**

| Plot        | Residential |                |             |                | Non-Resi / Commercial |                | Plot Total     |                |
|-------------|-------------|----------------|-------------|----------------|-----------------------|----------------|----------------|----------------|
|             | Potable     |                | Fire        |                | Potable               |                |                |                |
|             | Storage (l) | Flowrate (l/s) | Storage (l) | Flowrate (l/s) | Loading Units         | Flowrate (l/s) | Flowrate (l/s) | Pipe Size (mm) |
| <b>NT02</b> | 38,935      | 5.41           | 84,300      | 0.97           | 67                    | 1.09           | 6.50           | 90             |
| <b>NT03</b> | 76,307      | 10.60          | 84,300      | 0.97           | 84                    | 1.27           | 11.87          | 110            |
| <b>NT04</b> | 78,221      | 10.86          | 84,300      | 0.97           | 67                    | 1.09           | 11.95          | 110            |
|             |             |                |             |                |                       |                | <b>30.32</b>   |                |

- 4.4.2. 2 no. new connections to each plot (separate fire and potable water) are proposed be taken from the 250mm UU main within Dantzic Street, subject to confirmation by UU.

5

SEWERAGE



## **5. SEWERAGE**

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### **5.1. UTILITY PROVIDERS**

- 5.1.1. The incumbent provider for wastewater services in the area is United Utilities. Contact details are provided below:

United Utilities  
Developer Services and Planning  
Warrington North Wastewater Treatment Works  
Gatewarth Industrial Estate  
Off Liverpool Road  
Warrington  
WA5 1DS

### **5.2. EXISTING INFRASTRUCTURE**

- 5.2.1. United Utility sewer records indicate they operate a number of combined public sewers in the area. There are no dedicated foul or surface water sewers in the vicinity of the site.
- 5.2.2. A 1550mm diameter combined sewer and a 300mm diameter combined sewer are present in Dantzic Street. The 300mm diameter sewer discharges into the 1550mm sewer in Dantzic Street, opposite Plot NT02.
- 5.2.3. A 375mm diameter combined sewer is shown within Plot NT04 discharging into the 1550mm diameter combined sewer in Dantzic Street. A statutory 6m easement (3m either side of centreline) is associated with this sewer.
- 5.2.4. A 375mm x 475mm combined sewer is present within Plot NT03, discharging into the 300mm dia. combined sewer in Dantzic Street. It is likely that this sewer serves the existing warehouse unit in Plot NT02. A statutory 6m easement (3m either side of centreline) is associated with this sewer.
- 5.2.5. A 480mm x 630mm combined sewer is present in Dalton Street.

### **5.3. DIVERSIONS AND ABANDONMENTS**

- 5.3.1. The status of the existing 375mm diameter combined sewer within Plot NT04 is unconfirmed. There is potential for this sewer to be live, receiving flows from Network Rail land and areas beyond to the south of the site. Further investigations are proposed to clarify this. Should the sewer be live, then a diversion will be required within Plot NT04. Otherwise, the sewer will be abandoned.
- 5.3.2. The 375mm x 475mm combined sewer within Plot NT03 is to be abandoned.

### **5.4. NEW SUPPLIES**

- 5.4.1. New foul water connections will be provided for each plot into the UU public sewerage system. Anticipated foul water discharge is presented in Table 4 below:

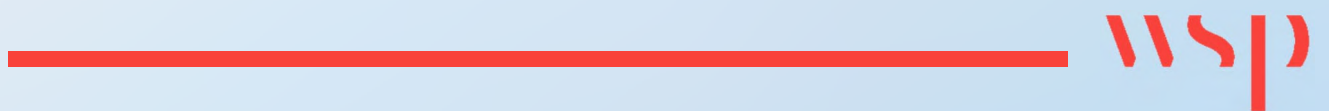
**Table 4 – Foul Water Discharge**

| Plot        | Residential     |                      | Non-Resi / Commercial |                 | Total Discharge (l/s) |
|-------------|-----------------|----------------------|-----------------------|-----------------|-----------------------|
|             | No of dwellings | Peak Discharge (l/s) | GIA (m <sup>2</sup> ) | Discharge (l/s) |                       |
| <b>NT02</b> | 316             | 14.6                 | 434                   | 0.22            | 14.82                 |
| <b>NT03</b> | 579             | 26.8                 | 1,030                 | 0.05            | 26.85                 |
| <b>NT04</b> | 656             | 30.4                 | 683                   | 0.03            | 30.43                 |
|             |                 |                      |                       |                 | <b>72.10</b>          |

- 5.4.2. Discussion with UU has taken place. Details of the proposed discharge rates from the plots as shown above has been shared with UU for their comment, and a response is awaited. It is proposed to discharge plots NT02, NT03 and NT04 to the existing public sewers in Dantzic Street and / or Dalton Street, subject to agreement.
- 5.4.3. The new connections will be made via gravity. S106 drainage agreements will be required for the new connections.
- 5.4.4. Surface water drainage is beyond the scope of this report. Details of the surface water drainage strategy for the site are presented elsewhere.

# 6

## DATA & TELECOMMUNICATIONS



## 6. DATA & TELECOMMUNICATIONS

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### 6.1. UTILITY PROVIDERS

- 6.1.1. Current operators of data and telecommunications infrastructure in the area are Openreach and Virgin Media. Contact details are provided below:

Openreach

[www.openreach.co.uk/cbyd](http://www.openreach.co.uk/cbyd)

Contact: T: 0800 783 2023 E: [cbyd@openreach.co.uk](mailto:cbyd@openreach.co.uk)

Virgin Media

[www.virginmedia.com/lightning/network-expansion/property-developers](http://www.virginmedia.com/lightning/network-expansion/property-developers)

Contact: T: 0800 408 0088 E: [newbuild@virginmedia.co.uk](mailto:newbuild@virginmedia.co.uk)

Vodafone

E: [Osm.enquiries@atkinsglobal.com](mailto:Osm.enquiries@atkinsglobal.com)

T: 01454 662881

Instalcom / Lumen Technologies

Plant Enquiries Dept

Instalcom Ltd

Borehamwood Ind. Park

Rowley Lane

Borehamwood

WD6 5PZ

### 6.2. EXISTING INFRASTRUCTURE

**Openreach**

- 6.2.1. Openreach records show mainly below ground networks within Dantzic Street and Dalton Street, supplemented by some overhead cables and poles.
- 6.2.2. Overhead cables are shown within Plot NT03 connecting to networks within Dantzic Street. However, there is no physical evidence of these cables and poles and therefore it is assumed that they have been previously abandoned as part of demolition works undertaken on the site in recent years.
- 6.2.3. A cable is shown entering Plot NT04 from Dalton Street.

**Virgin Media**

- 6.2.4. There are no Virgin Media assets within the vicinity of the site, although a VM network is present at Red Bank to the north-west, and further south-west along Dantzic Street, south of the railway viaduct.

### **Vodafone**

- 6.2.5. A Vodafone cable is present within the railway viaduct to the south of the site, and in Rochdale Road to the south-east of the site. The development does not impact upon these cables and so further consideration is discounted.

### **Instalcom / Lumen Technologies**

- 6.2.6. Lumen Technologies operate a cable within the railway viaduct to the south of the site. The development does not impact upon this cable and therefore further consideration is discounted.

## **6.3. DIVERSIONS AND ABANDONMENTS**

- 6.3.1. Existing Openreach cables within Plots NT03 and NT04 are to be abandoned.
- 6.3.2. No diversion of telecoms infrastructure within the NT02-04 development plots is required.
- 6.3.3. Diversion of Openreach cables in Dantzic Street and Dalton Street may be required to facilitate highway improvement works, subject to confirmation of detailed design proposals and cable location.

## **6.4. NEW SUPPLIES**

- 6.4.1. It is proposed that each plot will be served with a new connection to the Openreach network for access to telephone and broadband internet services. Current Openreach policy is to provide a Fibre-to-the-Premises (FTTP) connection for all developments over 20 no. dwellings. It is anticipated that connection will be to the existing below ground Openreach network in Dantzic Street, subject to confirmation by Openreach.
- 6.4.2. A series of below ground ducts and chambers will be located within the roads within the development to facilitate the network.
- 6.4.3. Connection to other networks are available should this be required. It is proposed to install containment only (ducts and chambers) for a future connection by Virgin Media, should VM decide that it is viable to extend their network to serve the development

# Appendix A

---

SITE LAYOUT PLANS **wsp**



© Maccreanor Lavington Ltd.

Do not scale from this drawing. Verify all dimensions on site.  
Drawing should be read in conjunction with information from  
all other design consultants and contractors. All drawings in  
digital format are for reference only, paper copies are  
available on request.

**Legend**

 SITE AREA: 28,104m<sup>2</sup>

0 10 30m



**MACCREANOR  
LAVINGTON**

Proj. No. RDB  
Street Name  
Existing Site Plan

Project Red Bank NT02-04  
Client FEC

Date 13/04/2023  
Rev. P0

Vijverhofstraat 47  
3032 SB Rotterdam  
The Netherlands  
+31(0)10 443 96 60

Scale 1:500  
Size A1



© Maccreanor Lavington Ltd.

Do not scale from this drawing. Verify all dimensions on site. Drawing should be read in conjunction with information from all other design consultants and contractors. All drawings in digital format are for reference only, paper copies are available on request.

0 10 30m



**Legend**

Application boundary

**MACCREANOR  
LAVINGTON**

Proj. No. RDB  
Street Name  
Proposed Site Plan

Project Red Bank NT02-04  
Client FEC

Vijverhofstraat 47  
3032 SB Rotterdam  
The Netherlands  
+31(0)10 443 96 60

Date 13/04/2023  
Client FEC

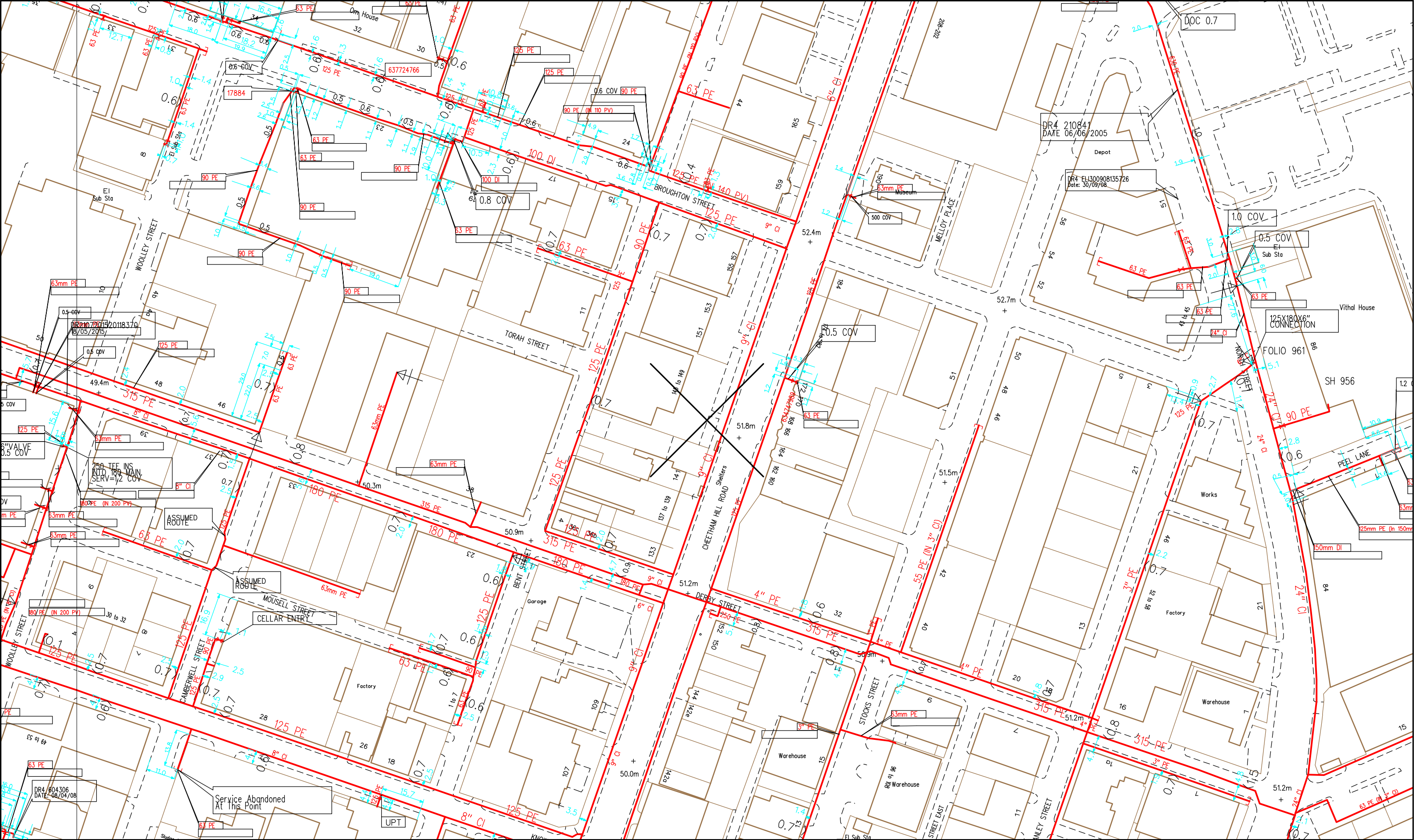
Scale 1:500  
Size A1  
Rev. P0

# Appendix B

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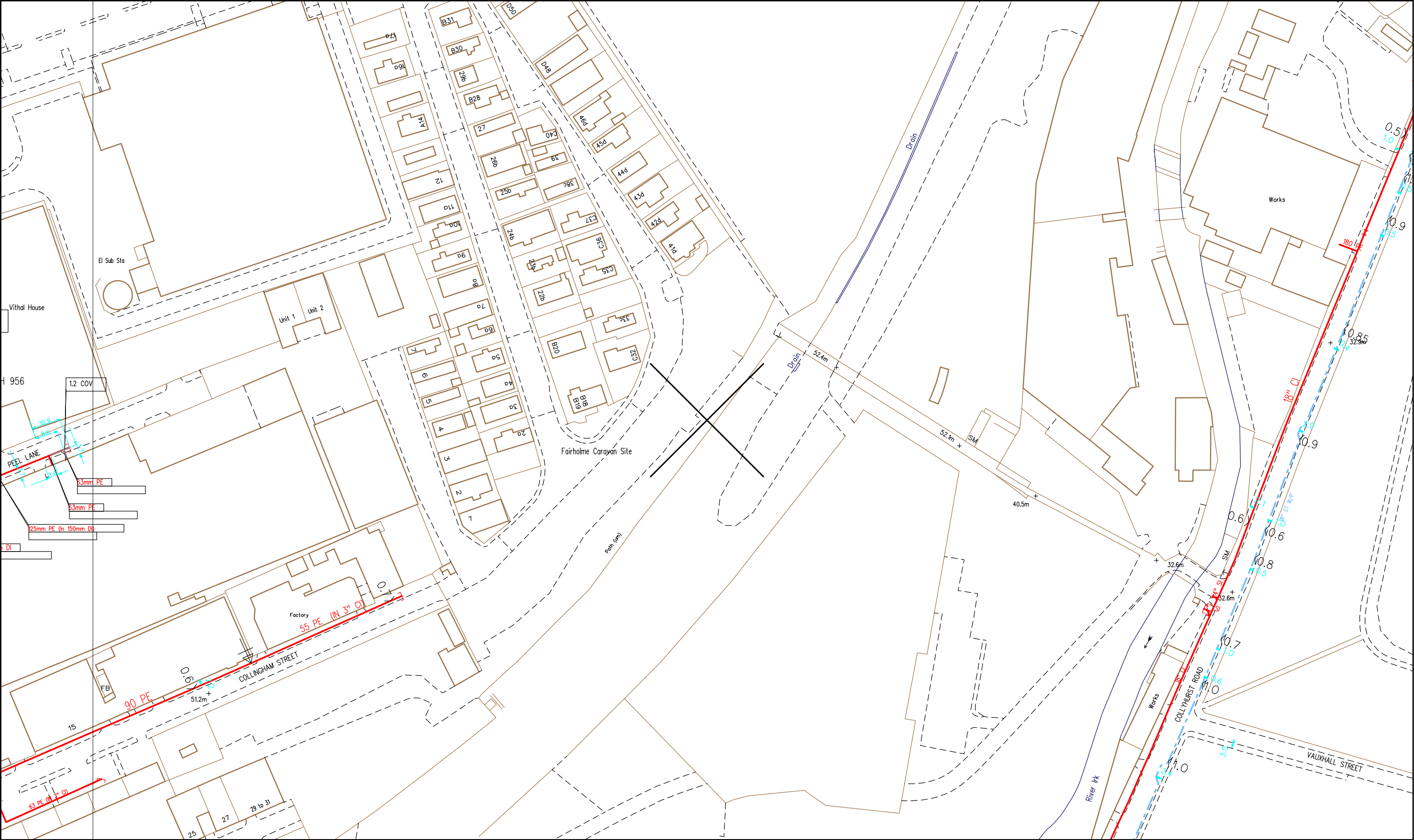
UTILITIES ASSET RECORDS

wsp



|                                 |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
|---------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SCALE:</b> 1 : 1250          | <b>LP MAINS</b>  | <p>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.</p> | <b>MAPS Viewer Version 5.8.0.1</b>                                                                                                                                   |
| <b>USER ID:</b> RAMC2390        | <b>MP MAINS</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Local Machine</b>                                                                                                                                                 |
| <b>DATE:</b> 16/06/2021         | <b>IP MAINS</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved.</p> |
| <b>EXTRACT DATE:</b> 01/03/2021 | <b>LHP MAINS</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
| <b>MAP REF:</b> SJ8499          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
| <b>CENTRE:</b> 384234, 399823   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |

Some examples of Point Items



|                          |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCALE: 1 : 1250          | <div>LP MAINS</div> <div>MP MAINS</div> <div>IP MAINS</div> <div>LHP MAINS</div> | <p>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.</p> | MAPS Viewer Version 5.8.0.1                                                                                                                                          |
| USER ID: RAMC2390        |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Local Machine                                                                                                                                                        |
| DATE: 16/06/2021         |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved.</p> |
| EXTRACT DATE: 01/03/2021 |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
| MAP REF: SJ8499          |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
| CENTRE: 384728, 399823   |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |

Some examples of Point Items

Valve

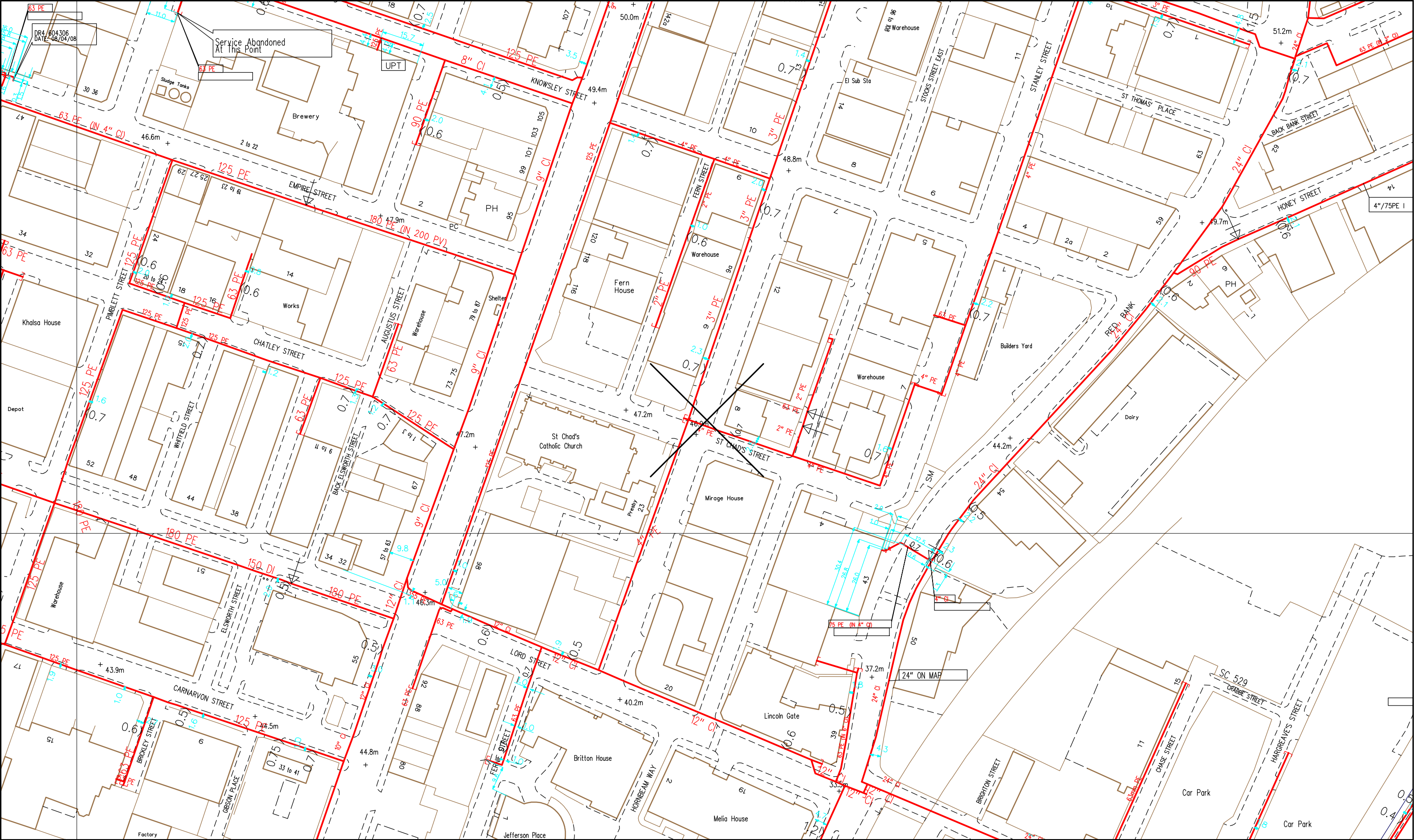
Depth of Cover

Siphon

Diameter Change

Material Change

Out of Service



|                          |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCALE: 1 : 1250          | <div>LP MAINS</div> <div>MP MAINS</div> <div>IP MAINS</div> <div>LHP MAINS</div> | <p>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.</p> | MAPS Viewer Version 5.8.0.1                                                                                                                                          |
| USER ID: RAMC2390        |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Local Machine                                                                                                                                                        |
| DATE: 16/06/2021         |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved.</p> |
| EXTRACT DATE: 01/03/2021 |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
| MAP REF: SJ8499          |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
| CENTRE: 384234, 399542   |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |

Some examples of Point Items

Valve

Dead End

Stopper

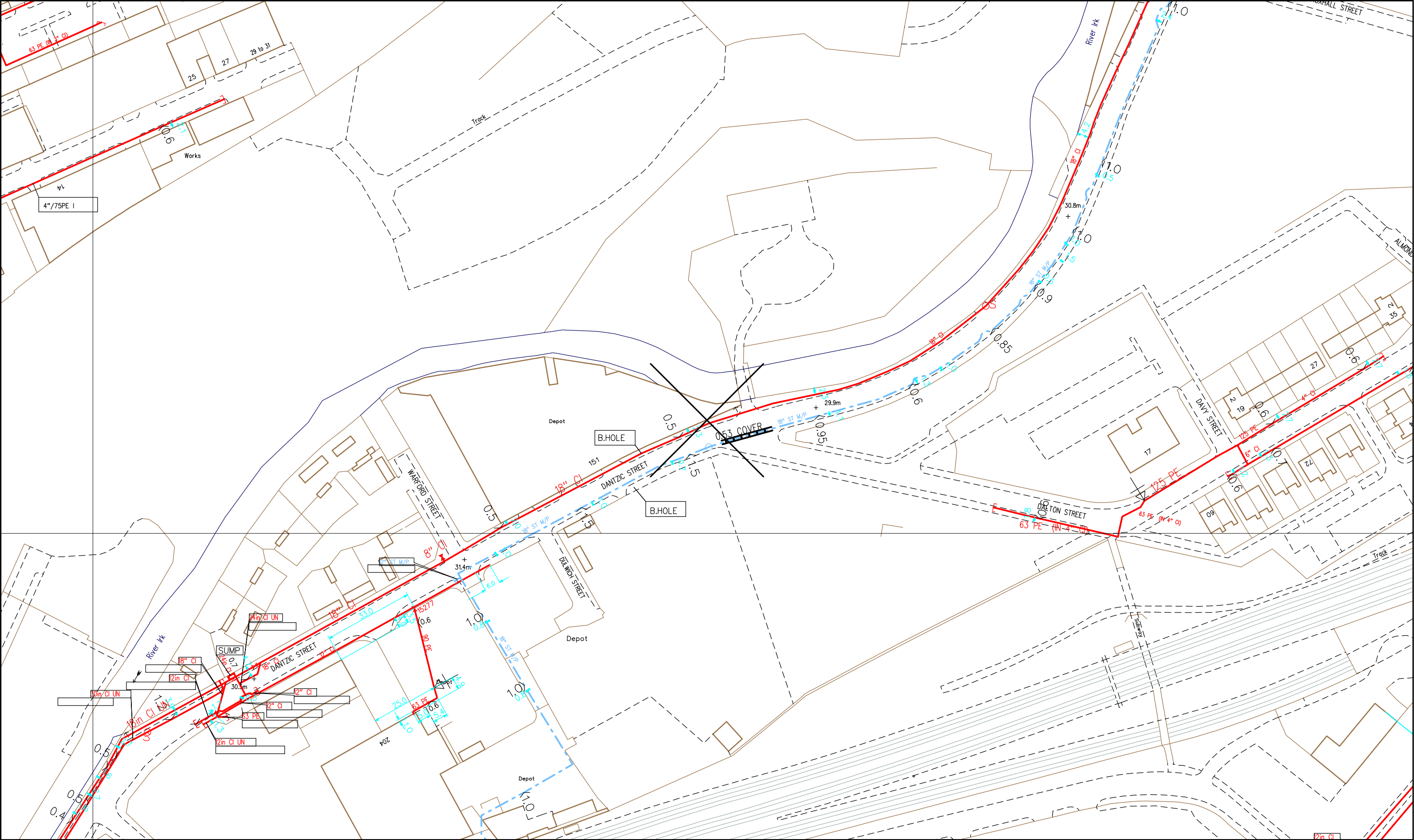
Disconnector

Disconnector

Disconnector

Disconnector

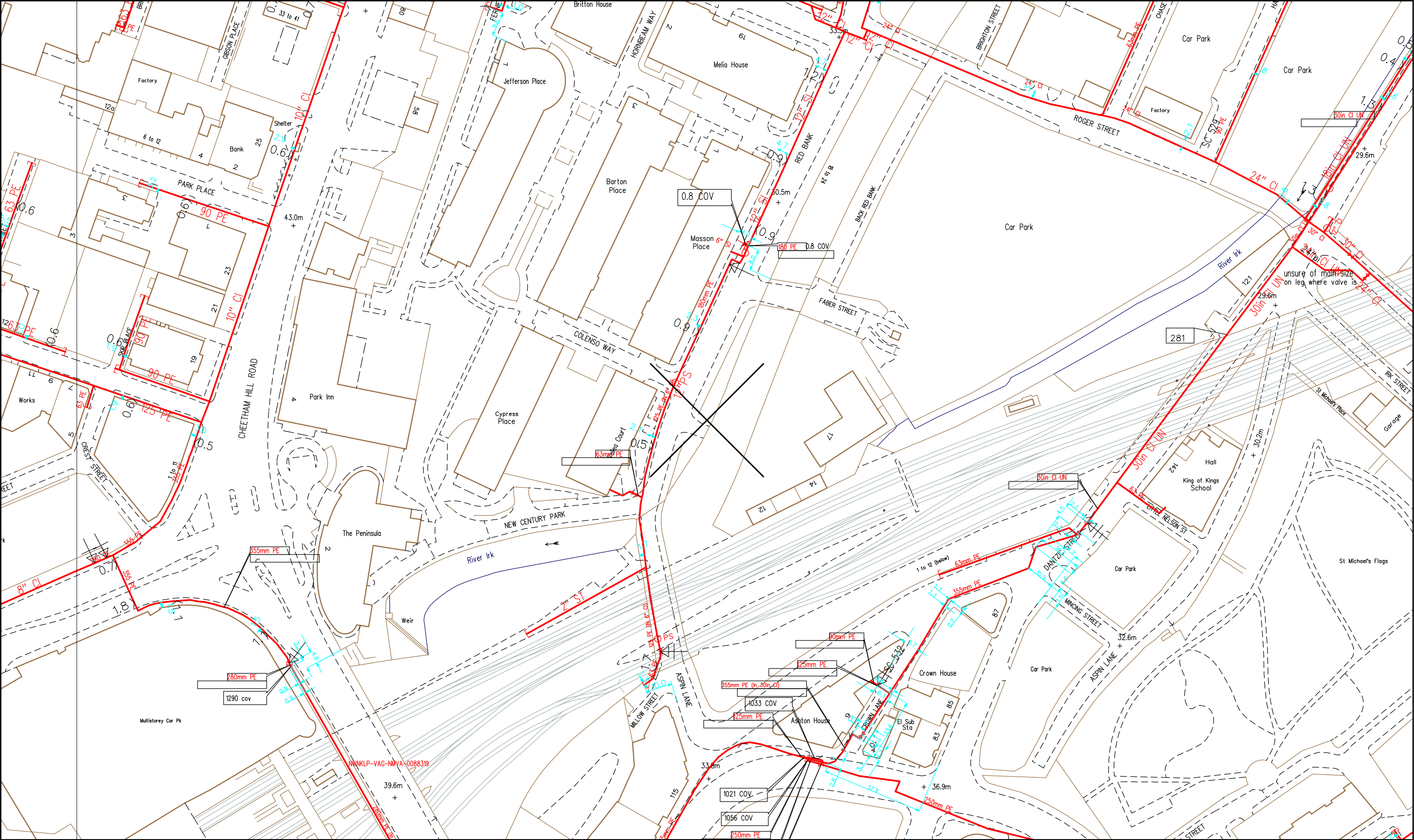
Disconnector



|                                 |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
|---------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SCALE:</b> 1 : 1250          | <b>LP MAINS</b>  | <p>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.</p> | <b>MAPS Viewer Version 5.8.0.1</b>                                                                                                                                   |
| <b>USER ID:</b> RAMC2390        | <b>MP MAINS</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Local Machine</b>                                                                                                                                                 |
| <b>DATE:</b> 16/06/2021         | <b>IP MAINS</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved.</p> |
| <b>EXTRACT DATE:</b> 01/03/2021 | <b>LHP MAINS</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
| <b>MAP REF:</b> SJ8499          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |
| <b>CENTRE:</b> 384728, 399542   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      |

Some examples of Point Items

|       |                |      |                 |                 |                |
|-------|----------------|------|-----------------|-----------------|----------------|
|       |                |      |                 |                 |                |
| Valve | Depth of Cover | Sump | Diameter Change | Material Change | Out of Service |



|                          |           |  |
|--------------------------|-----------|--|
| SCALE: 1 : 1250          | LP MAINS  |  |
| USER ID: RAMC2390        | MP MAINS  |  |
| DATE: 16/06/2021         | IP MAINS  |  |
| EXTRACT DATE: 01/03/2021 | LHP MAINS |  |
| MAP REF: SJ8499          |           |  |
| CENTRE: 384234, 399262   |           |  |

Some examples of Print Items

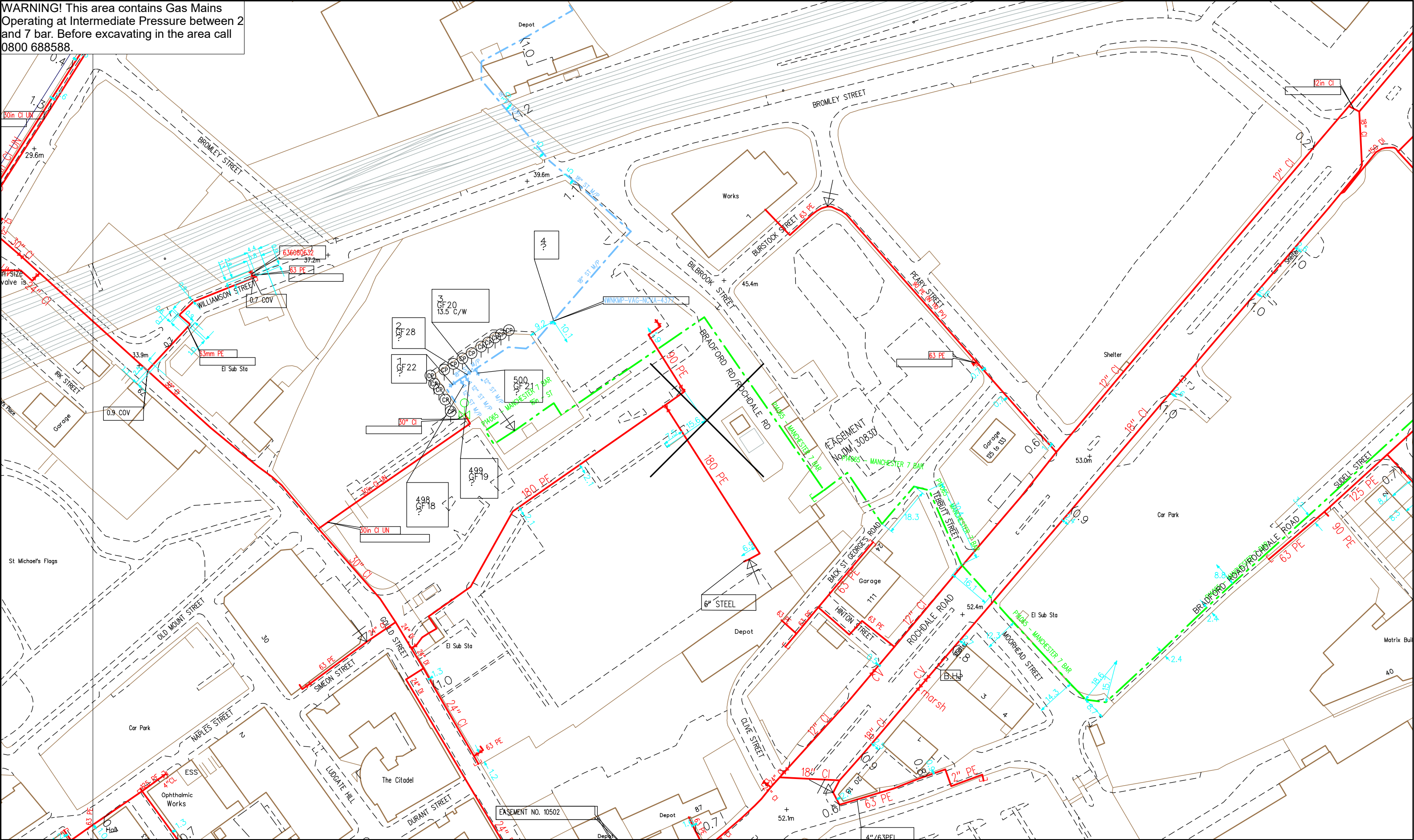
This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this 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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**WARNING!** This area contains Gas Mains Operating at Intermediate Pressure between 2 and 7 bar. Before excavating in the area call 0800 688588.



|                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                           |
|--------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCALE: 1 : 1250          | LP MAINS  | <p>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.</p> | MAPS Viewer Version 5.8.0.1                                                                                                                                                               |
| USER ID: RAMC2390        | MP MAINS  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>Local Machine</p> <p>This plan is reproduced from or based on the OS map by Cadent Gas Ltd, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved.</p> |
| DATE: 16/06/2021         | IP MAINS  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                           |
| EXTRACT DATE: 01/03/2021 | LHP MAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                           |
| MAP REF: SJ8499          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                           |
| CENTRE: 384728, 399262   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                           |

Some examples of Point Items

Valve

Directional Change

Manhole

Out of Service



**Electricity North West**  
Data Management,  
Electricity North West  
Linley House  
Dickinson Street  
Manchester, M1 4LF  
Phone: 0800 195 4141  
Email: [planrequest@enwl.co.uk](mailto:planrequest@enwl.co.uk)  
Web: [www.enwl.co.uk](http://www.enwl.co.uk)

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

Our Reference: 22398525

Your Reference: 97079/HaK

Dear Miss Chrissy Elliott

#### **Electricity Network Plans**

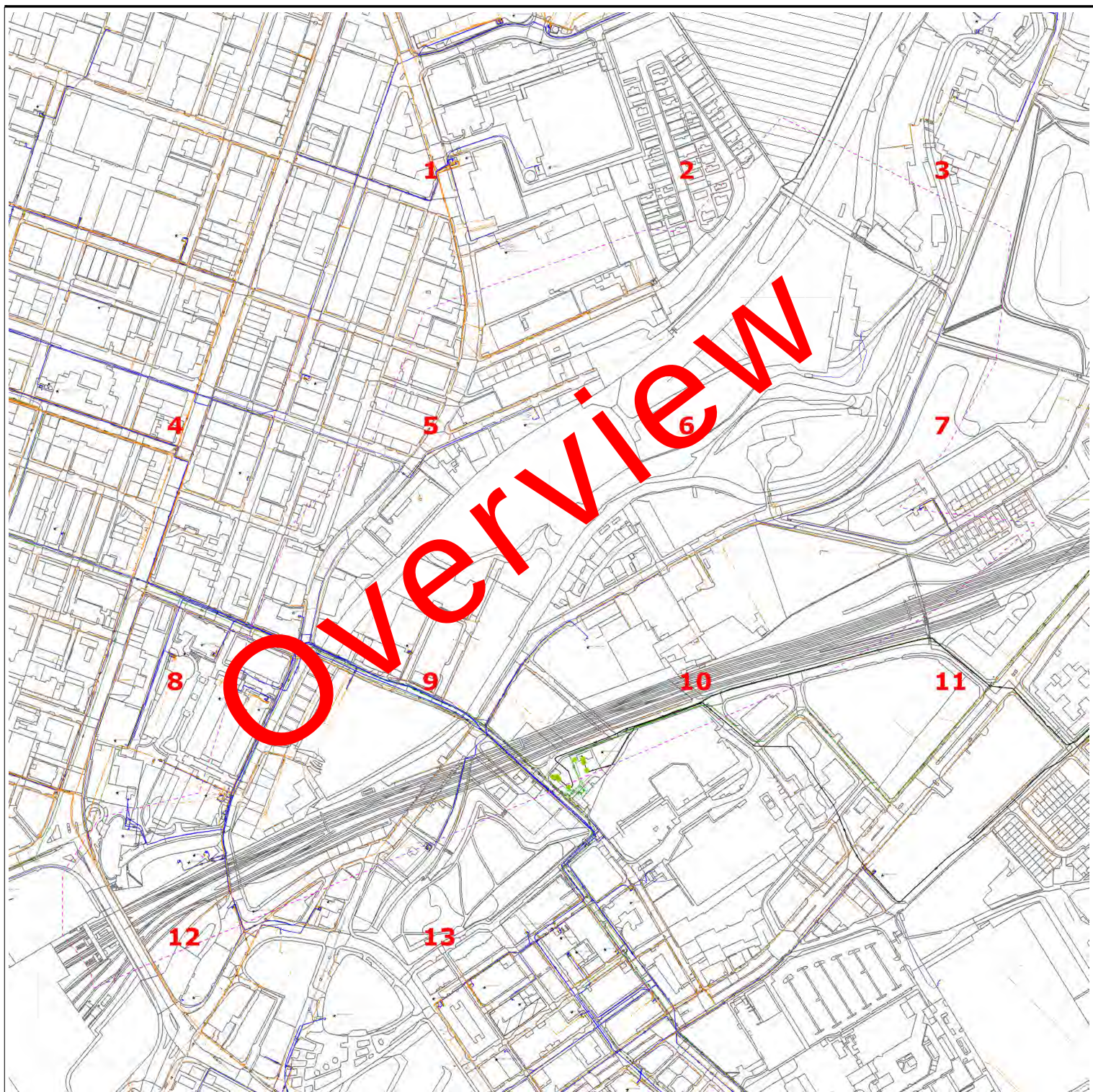
I acknowledge with thanks your request dated 15/06/2021 04:02:15 AM for information on the location of our services.

Please find enclosed plan(s) showing the approximate position of our apparatus known to be in the vicinity of this site.

I attach Conditions and information regarding electricity mains, which details contact numbers for additional services (i.e. new supplies, connections, diversion). In addition you should ensure they are made available to anyone carrying out any works which may affect our apparatus.

Yours sincerely,

Data Management



Requested by: Chrissy Elliott

Company: Atkins

Date Requested: 15/06/2021

Job Reference: 22398525

Your Scheme/Reference: 97079/HaK

Dig Sites:

Area  Line 

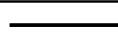
Operating Voltage

Colour Code

Line Colour

132kV

Black



33kV

Green



22kV-25kV

Yellow



11kV

Red



6kV-6.6kV

Blue



1kV-6kV

Violet



LV

Orange



Unknown Voltage

Brown



Data Management  
Electricity North West  
Linley House  
Dickinson Street  
Manchester, M1 4LF  
Phone: 0800 195 4141  
Email: [planrequest@enwl.co.uk](mailto:planrequest@enwl.co.uk)

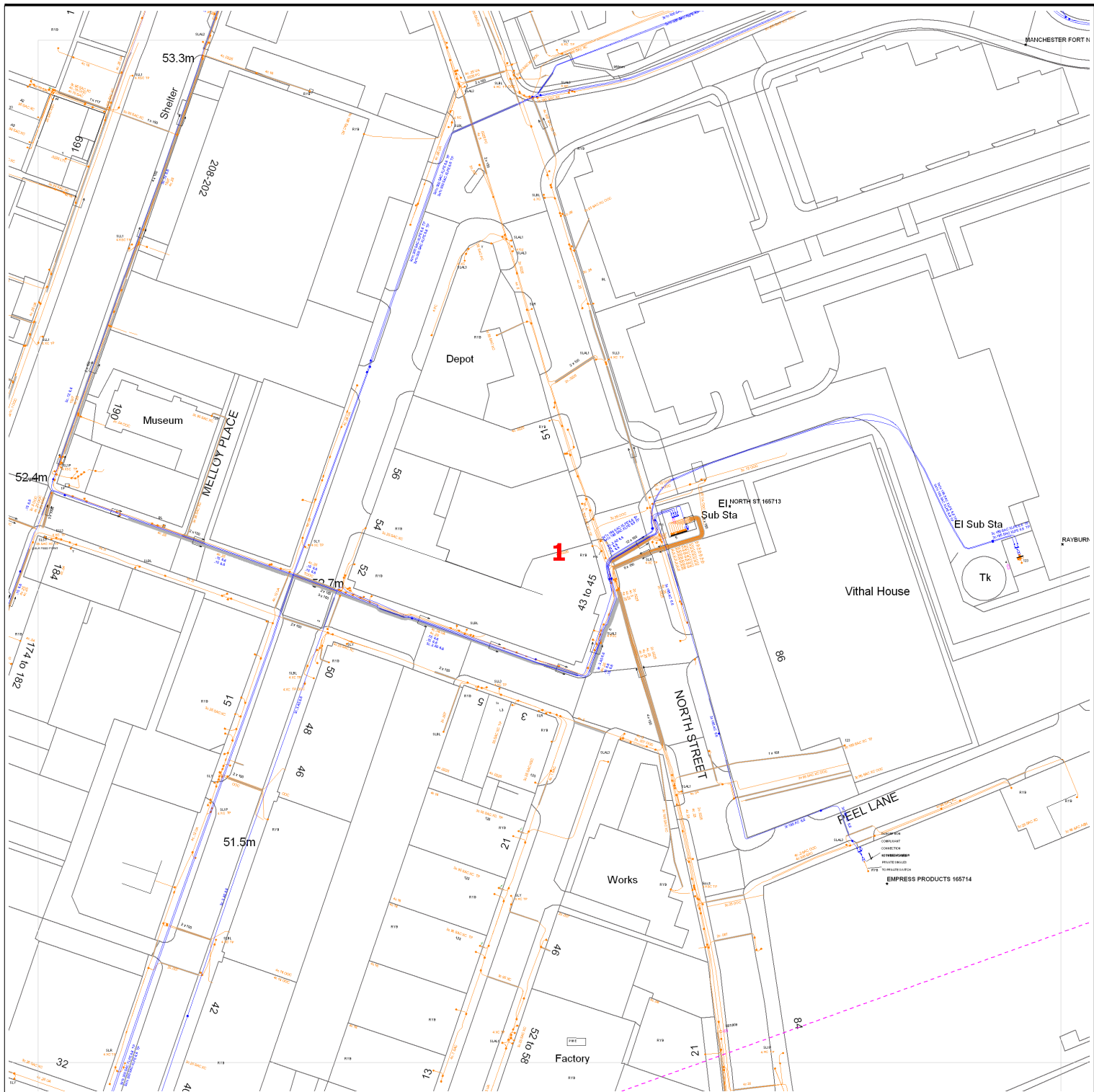
Scales on A4 paper:  
1:1250 Area dig site  
1:250 Line dig site

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Requested by: Chrissy Elliott  
 Company: Atkins  
 Date Requested: 15/06/2021  
 Job Reference: 22398525  
 Your Scheme/Reference: 97079/HaK

Dig Sites:  
 Area  Line 

| Operating Voltage | Colour Code | Line Colour                                                                          |
|-------------------|-------------|--------------------------------------------------------------------------------------|
| 132kV             | Black       |  |
| 33kV              | Green       |  |
| 22kV-25kV         | Yellow      |  |
| 11kV              | Red         |  |
| 6kV-6.6kV         | Blue        |  |
| 1kV-6kV           | Violet      |  |
| LV                | Orange      |  |
| Unknown Voltage   | Brown       |  |



Data Management  
 Electricity North West  
 Linley House  
 Dickinson Street  
 Manchester, M1 4LF  
 Phone: 0800 195 4141  
 Email: [planrequest@enwl.co.uk](mailto:planrequest@enwl.co.uk)

Scales on A4 paper:  
 1:1250 Area dig site  
 1:250 Line dig site

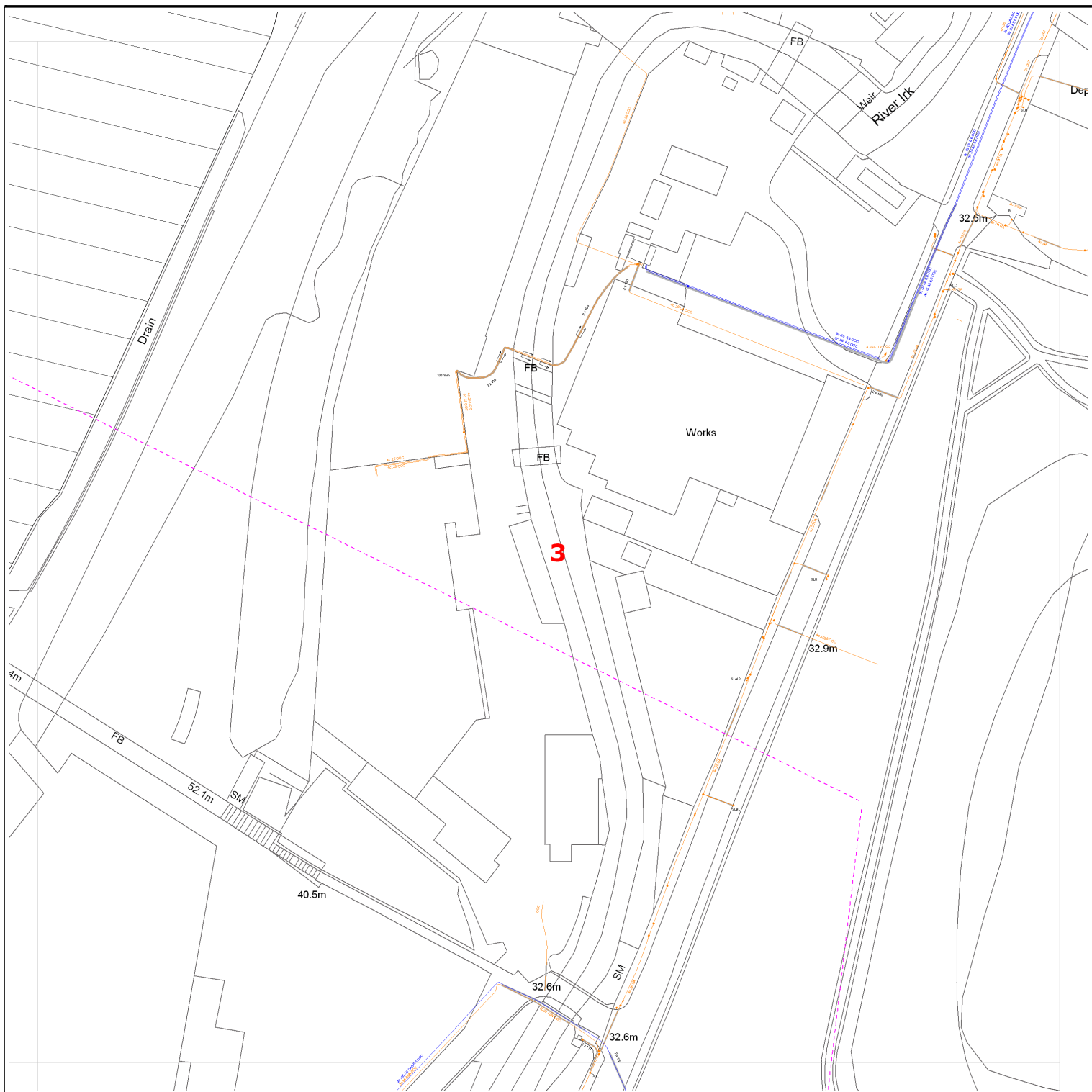
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Requested by: Chrissy Elliott

Company: Atkins

Date Requested: 15/06/2021

Job Reference: 22398525

Your Scheme/Reference: 97079/HaK

Dig Sites:

Area  Line 

Operating Voltage

Colour Code

Line Colour

132kV

Black



33kV

Green



22kV-25kV

Yellow



11kV

Red



6kV-6.6kV

Blue



1kV-6kV

Violet



LV

Orange



Unknown Voltage

Brown



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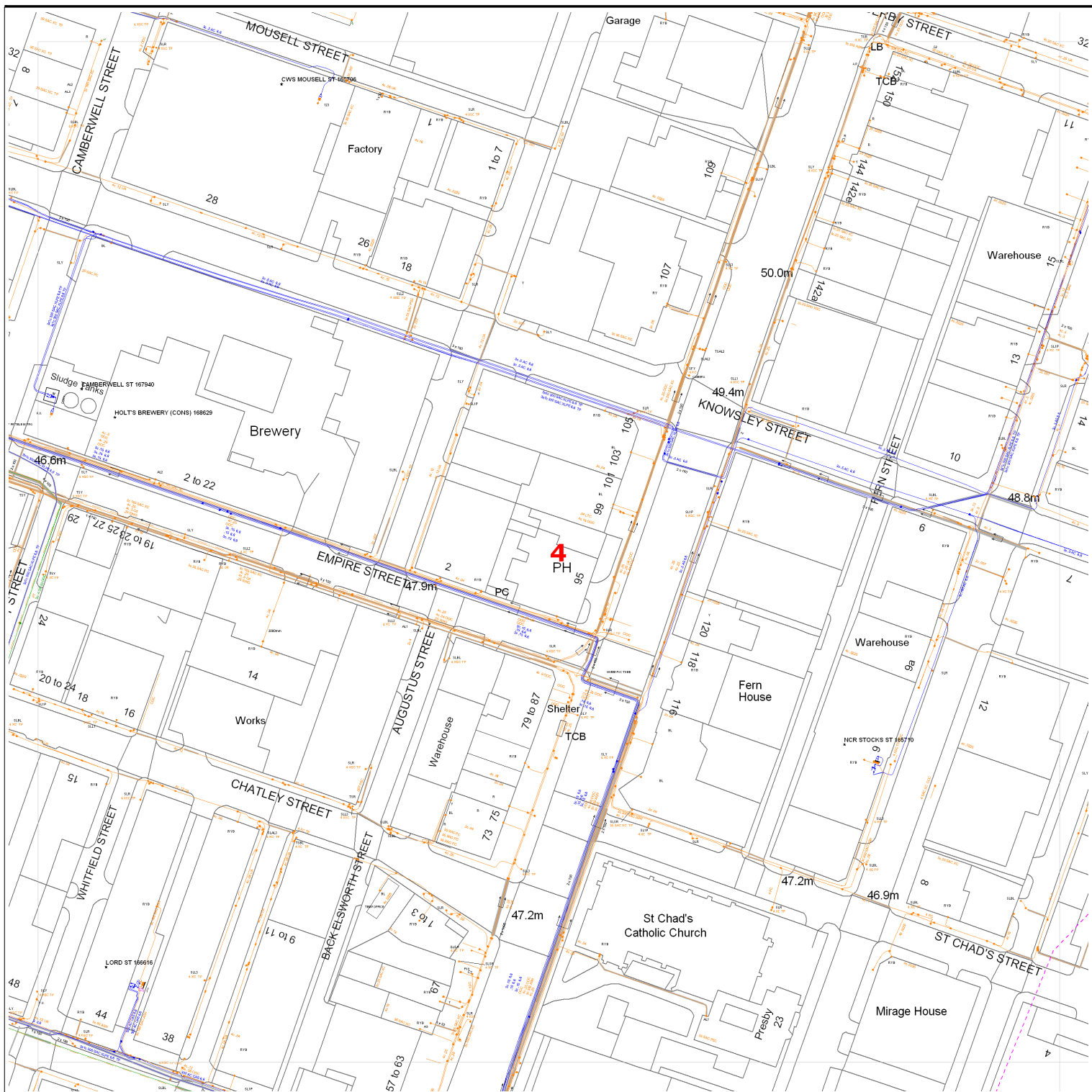
Scales on A4 paper:  
1:1250 Area dig site  
1:250 Line dig site

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 Company: Atkins  
 Date Requested: 15/06/2021  
 Job Reference: 22398525  
 Your Scheme/Reference: 97079/HaK

Dig Sites:  
 Area ---- Line ----

| Operating Voltage | Colour Code | Line Colour                              |
|-------------------|-------------|------------------------------------------|
| 132kV             | Black       | <span style="color: black;">----</span>  |
| 33kV              | Green       | <span style="color: green;">----</span>  |
| 22kV-25kV         | Yellow      | <span style="color: yellow;">----</span> |
| 11kV              | Red         | <span style="color: red;">----</span>    |
| 6kV-6.6kV         | Blue        | <span style="color: blue;">----</span>   |
| 1kV-6kV           | Violet      | <span style="color: purple;">----</span> |
| LV                | Orange      | <span style="color: orange;">----</span> |
| Unknown Voltage   | Brown       | <span style="color: brown;">----</span>  |



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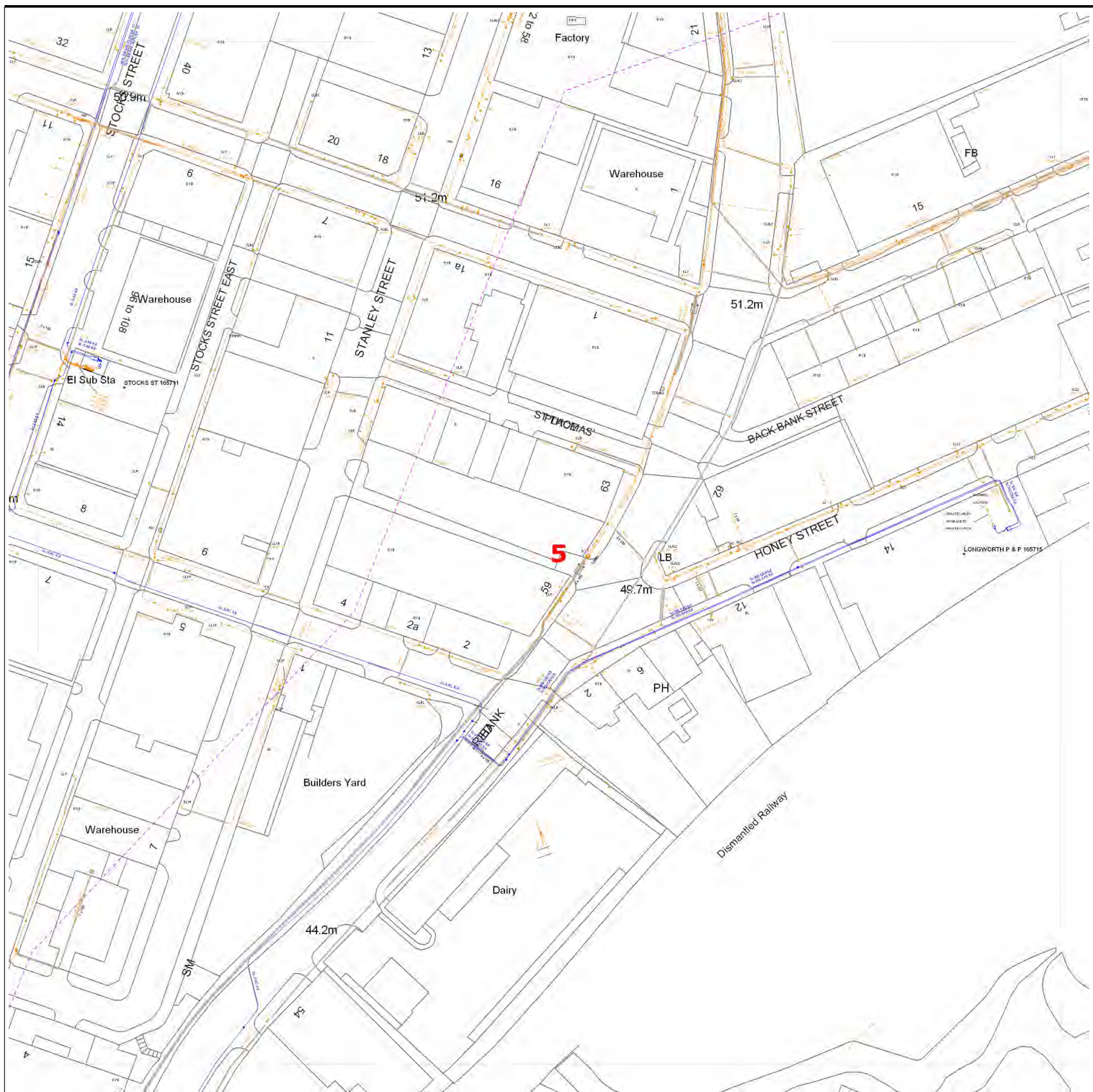
Scales on A4 paper:  
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 Date Requested: 15/06/2021  
 Job Reference: 22398525  
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Dig Sites:  
 Area  Line 

| Operating Voltage | Colour Code | Line Colour                                                                          |
|-------------------|-------------|--------------------------------------------------------------------------------------|
| 132kV             | Black       |  |
| 33kV              | Green       |  |
| 22kV-25kV         | Yellow      |  |
| 11kV              | Red         |  |
| 6kV-6.6kV         | Blue        |  |
| 1kV-6kV           | Violet      |  |
| LV                | Orange      |  |
| Unknown Voltage   | Brown       |  |



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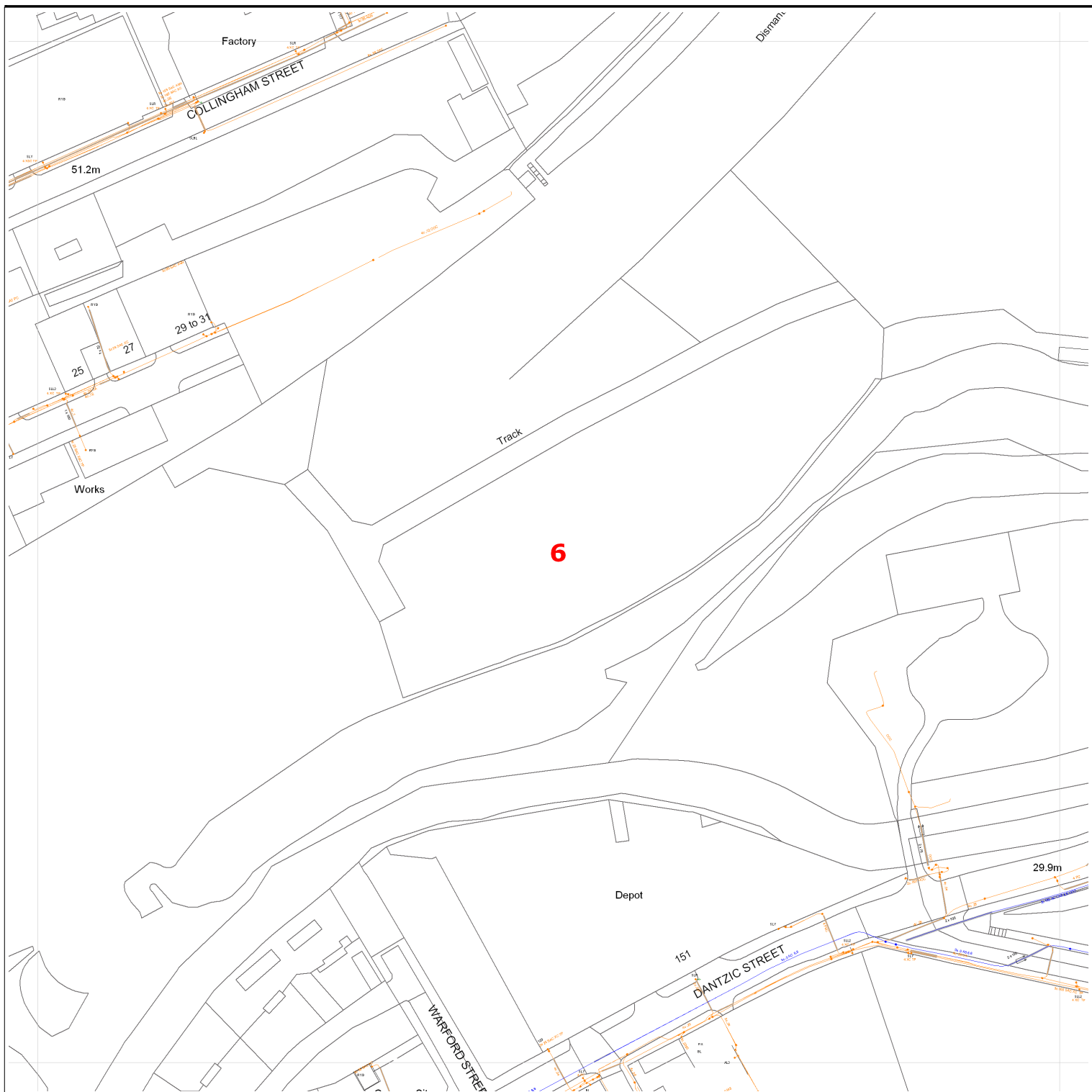
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Dig Sites:

Area  Line 

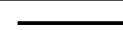
Operating Voltage

Colour Code

Line Colour

132kV

Black



33kV

Green



22kV-25kV

Yellow



11kV

Red



6kV-6.6kV

Blue



1kV-6kV

Violet



LV

Orange



Unknown Voltage

Brown



Data Management

Electricity North West

Linley House

Dickinson Street

Manchester, M1 4LF

Phone: 0800 195 4141

Email: [planrequest@enwl.co.uk](mailto:planrequest@enwl.co.uk)

Scales on A4 paper:

1:1250 Area dig site

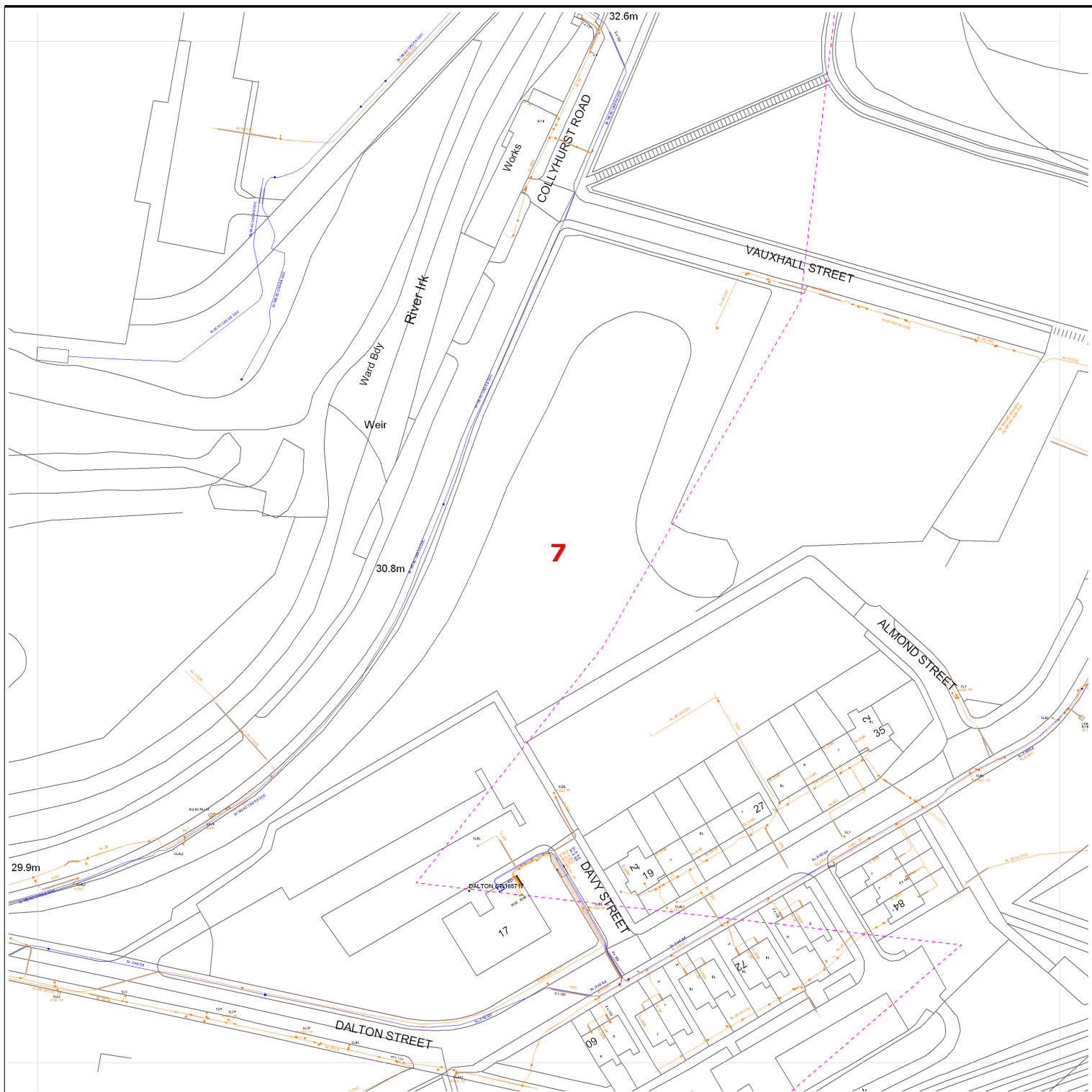
1:250 Line dig site

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Dig Sites:

Area  Line 

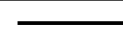
Operating Voltage

Colour Code

Line Colour

132kV

Black



33kV

Green



22kV-25kV

Yellow



11kV

Red



6kV-6.6kV

Blue



1kV-6kV

Violet



LV

Orange



Unknown Voltage

Brown



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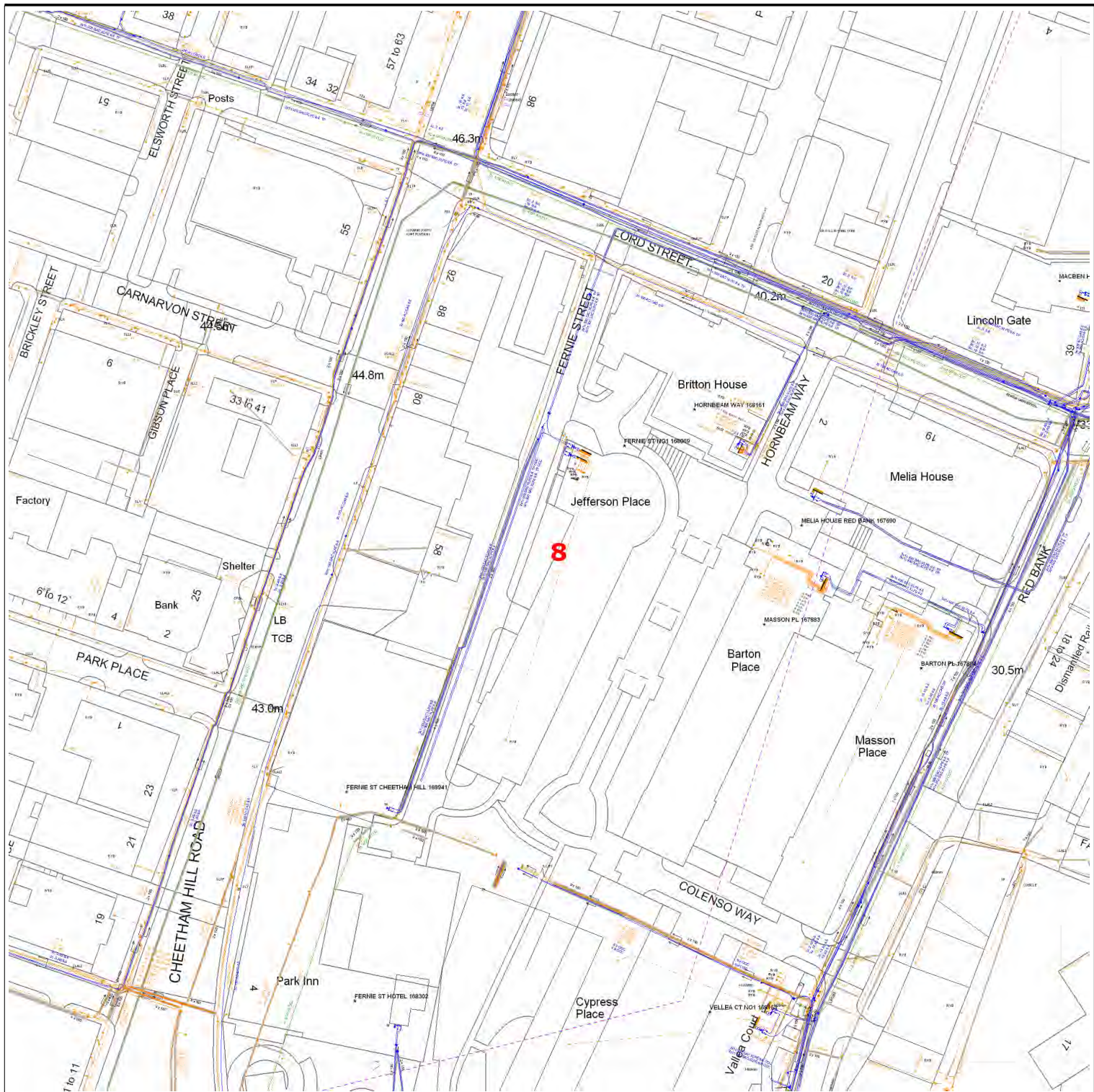
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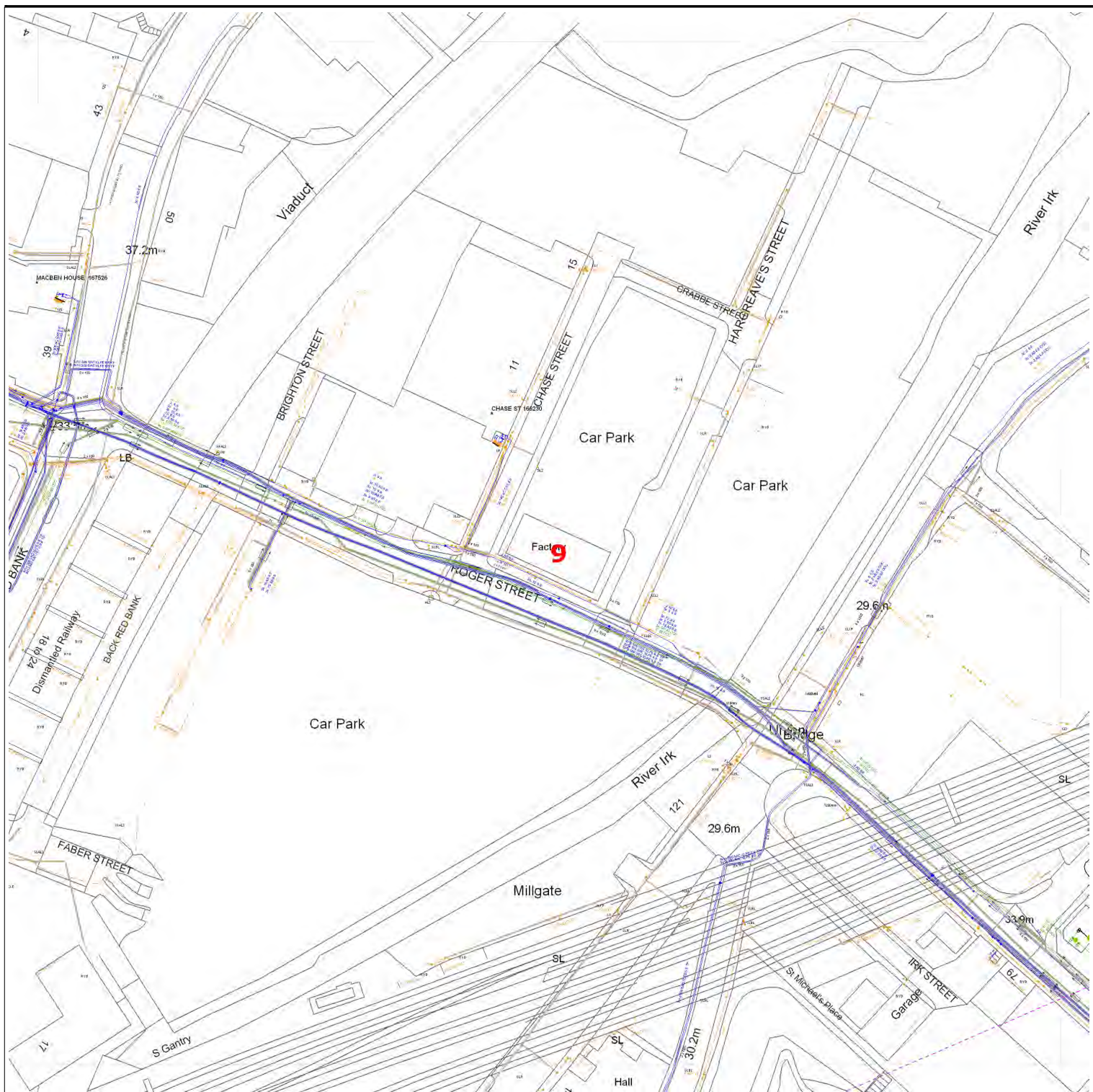
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| <p>Requested by: Chrissy Elliott<br/> Company: Atkins<br/> Date Requested: 15/06/2021<br/> Job Reference: 22398525<br/> Your Scheme/Reference: 97079/HaK</p> | <table> <tr> <th>Operating Voltage</th><th>Colour Code</th><th>Line Colour</th></tr> <tr> <td>132kV</td><td>Black</td><td></td></tr> <tr> <td>33kV</td><td>Green</td><td></td></tr> <tr> <td>22kV-25kV</td><td>Yellow</td><td></td></tr> <tr> <td>11kV</td><td>Red</td><td></td></tr> <tr> <td>6kV-6.6kV</td><td>Blue</td><td></td></tr> <tr> <td>1kV-6kV</td><td>Violet</td><td></td></tr> <tr> <td>LV</td><td>Orange</td><td></td></tr> <tr> <td>Unknown Voltage</td><td>Brown</td><td></td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Operating Voltage | Colour Code | Line Colour | 132kV | Black |  | 33kV | Green |  | 22kV-25kV | Yellow |  | 11kV | Red |  | 6kV-6.6kV | Blue |  | 1kV-6kV | Violet |  | LV | Orange |  | Unknown Voltage | Brown |  | <div> </div> <div> <p>Data Management<br/> Electricity North West<br/> Linley House<br/> Dickinson Street<br/> Manchester, M1 4LF<br/> Phone: 0800 195 4141<br/> Email: <a href="mailto:planrequest@enwl.co.uk">planrequest@enwl.co.uk</a></p> </div> <div> <p>Scales on A4 paper:<br/> 1:1250 Area dig site<br/> 1:250 Line dig site</p> </div> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------|-------|-------|--|------|-------|--|-----------|--------|--|------|-----|--|-----------|------|--|---------|--------|--|----|--------|--|-----------------|-------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Voltage                                                                                                                                            | Colour Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Line Colour       |             |             |       |       |  |      |       |  |           |        |  |      |     |  |           |      |  |         |        |  |    |        |  |                 |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 132kV                                                                                                                                                        | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |             |             |       |       |  |      |       |  |           |        |  |      |     |  |           |      |  |         |        |  |    |        |  |                 |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 33kV                                                                                                                                                         | Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |             |             |       |       |  |      |       |  |           |        |  |      |     |  |           |      |  |         |        |  |    |        |  |                 |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 22kV-25kV                                                                                                                                                    | Yellow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |             |             |       |       |  |      |       |  |           |        |  |      |     |  |           |      |  |         |        |  |    |        |  |                 |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 11kV                                                                                                                                                         | Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |             |             |       |       |  |      |       |  |           |        |  |      |     |  |           |      |  |         |        |  |    |        |  |                 |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6kV-6.6kV                                                                                                                                                    | Blue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |             |             |       |       |  |      |       |  |           |        |  |      |     |  |           |      |  |         |        |  |    |        |  |                 |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1kV-6kV                                                                                                                                                      | Violet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |             |             |       |       |  |      |       |  |           |        |  |      |     |  |           |      |  |         |        |  |    |        |  |                 |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| LV                                                                                                                                                           | Orange                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |             |             |       |       |  |      |       |  |           |        |  |      |     |  |           |      |  |         |        |  |    |        |  |                 |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Unknown Voltage                                                                                                                                              | Brown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |             |             |       |       |  |      |       |  |           |        |  |      |     |  |           |      |  |         |        |  |    |        |  |                 |       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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Requested by: Chrissy Elliott  
 Company: Atkins  
 Date Requested: 15/06/2021  
 Job Reference: 22398525  
 Your Scheme/Reference: 97079/HaK

Dig Sites:  
 Area  Line 

| Operating Voltage | Colour Code | Line Colour                                                                          |
|-------------------|-------------|--------------------------------------------------------------------------------------|
| 132kV             | Black       |  |
| 33kV              | Green       |  |
| 22kV-25kV         | Yellow      |  |
| 11kV              | Red         |  |
| 6kV-6.6kV         | Blue        |  |
| 1kV-6kV           | Violet      |  |
| LV                | Orange      |  |
| Unknown Voltage   | Brown       |  |



Data Management  
 Electricity North West  
 Linley House  
 Dickinson Street  
 Manchester, M1 4LF  
 Phone: 0800 195 4141  
 Email: [planrequest@enwl.co.uk](mailto:planrequest@enwl.co.uk)

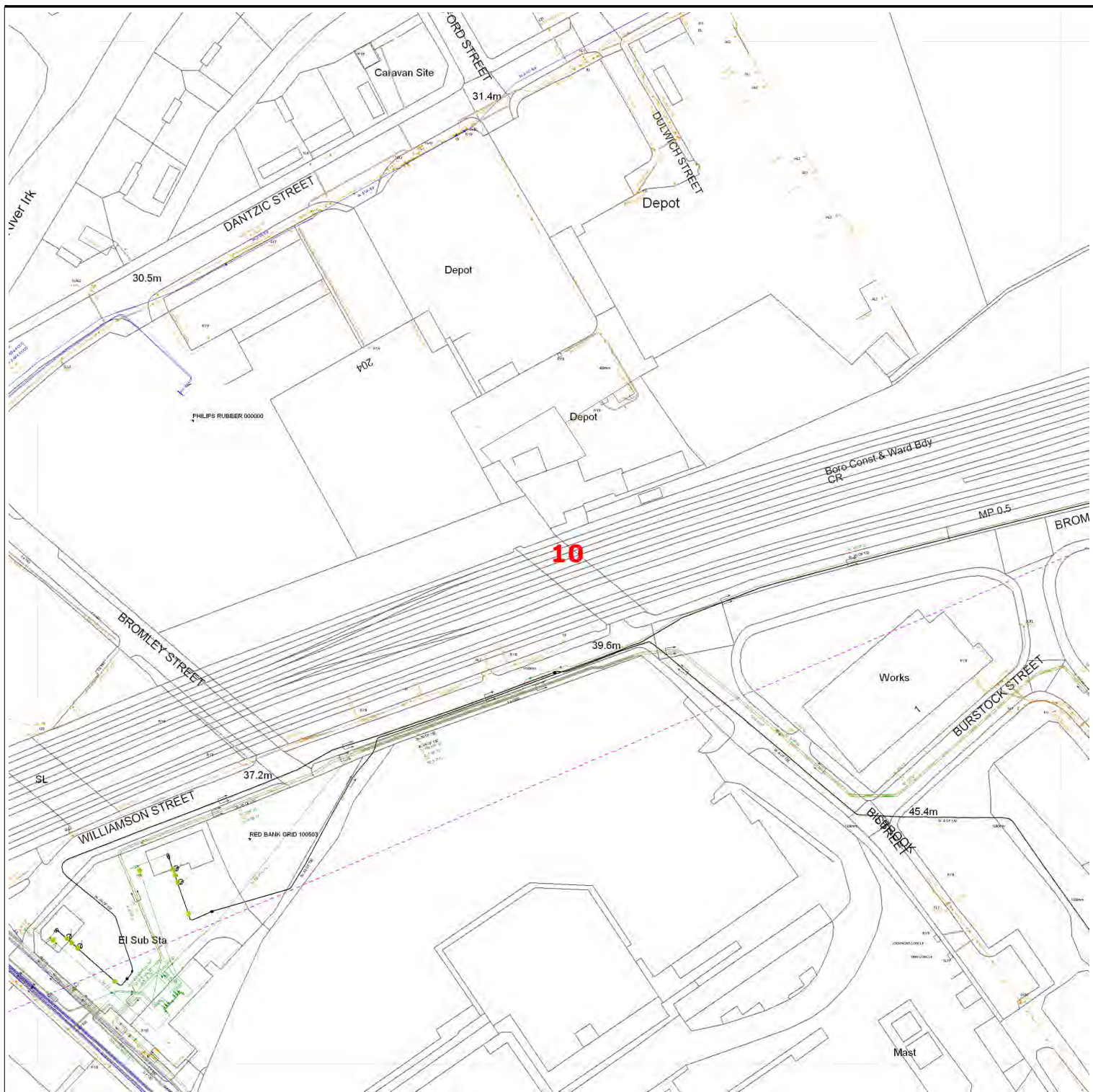
Scales on A4 paper:  
 1:1250 Area dig site  
 1:250 Line dig site

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Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines".

Electricity North West Limited 304 Bridgewater Place, Birchwood Park, Warrington WA3 6XG. Registered in England and Wales. Registered No 02366949



Requested by: Chrissy Elliott  
 Company: Atkins  
 Date Requested: 15/06/2021  
 Job Reference: 22398525  
 Your Scheme/Reference: 97079/HaK

Dig Sites:  
 Area ---- Line ----

| Operating Voltage | Colour Code | Line Colour                              |
|-------------------|-------------|------------------------------------------|
| 132kV             | Black       | <span style="color: black;">----</span>  |
| 33kV              | Green       | <span style="color: green;">----</span>  |
| 22kV-25kV         | Yellow      | <span style="color: yellow;">----</span> |
| 11kV              | Red         | <span style="color: red;">----</span>    |
| 6kV-6.6kV         | Blue        | <span style="color: blue;">----</span>   |
| 1kV-6kV           | Violet      | <span style="color: purple;">----</span> |
| LV                | Orange      | <span style="color: orange;">----</span> |
| Unknown Voltage   | Brown       | <span style="color: brown;">----</span>  |



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 Manchester, M1 4LF  
 Phone: 0800 195 4141  
 Email: [planrequest@enwl.co.uk](mailto:planrequest@enwl.co.uk)

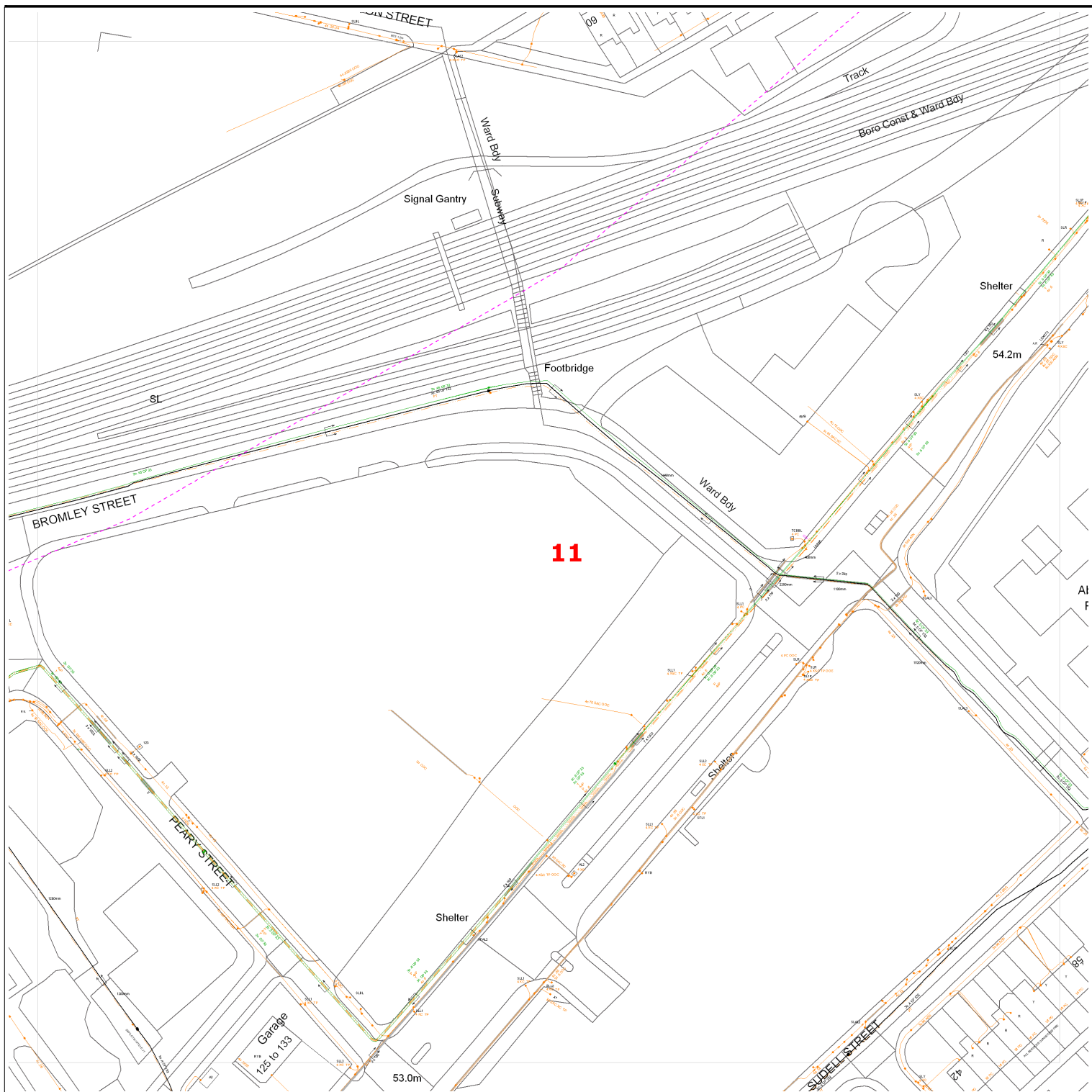
Scales on A4 paper:  
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 1:250 Line dig site

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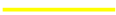
Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines".

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Requested by: Chrissy Elliott  
 Company: Atkins  
 Date Requested: 15/06/2021  
 Job Reference: 22398525  
 Your Scheme/Reference: 97079/HaK

Dig Sites:  
 Area  Line 

| Operating Voltage | Colour Code | Line Colour                                                                          |
|-------------------|-------------|--------------------------------------------------------------------------------------|
| 132kV             | Black       |  |
| 33kV              | Green       |  |
| 22kV-25kV         | Yellow      |  |
| 11kV              | Red         |  |
| 6kV-6.6kV         | Blue        |  |
| 1kV-6kV           | Violet      |  |
| LV                | Orange      |  |
| Unknown Voltage   | Brown       |  |



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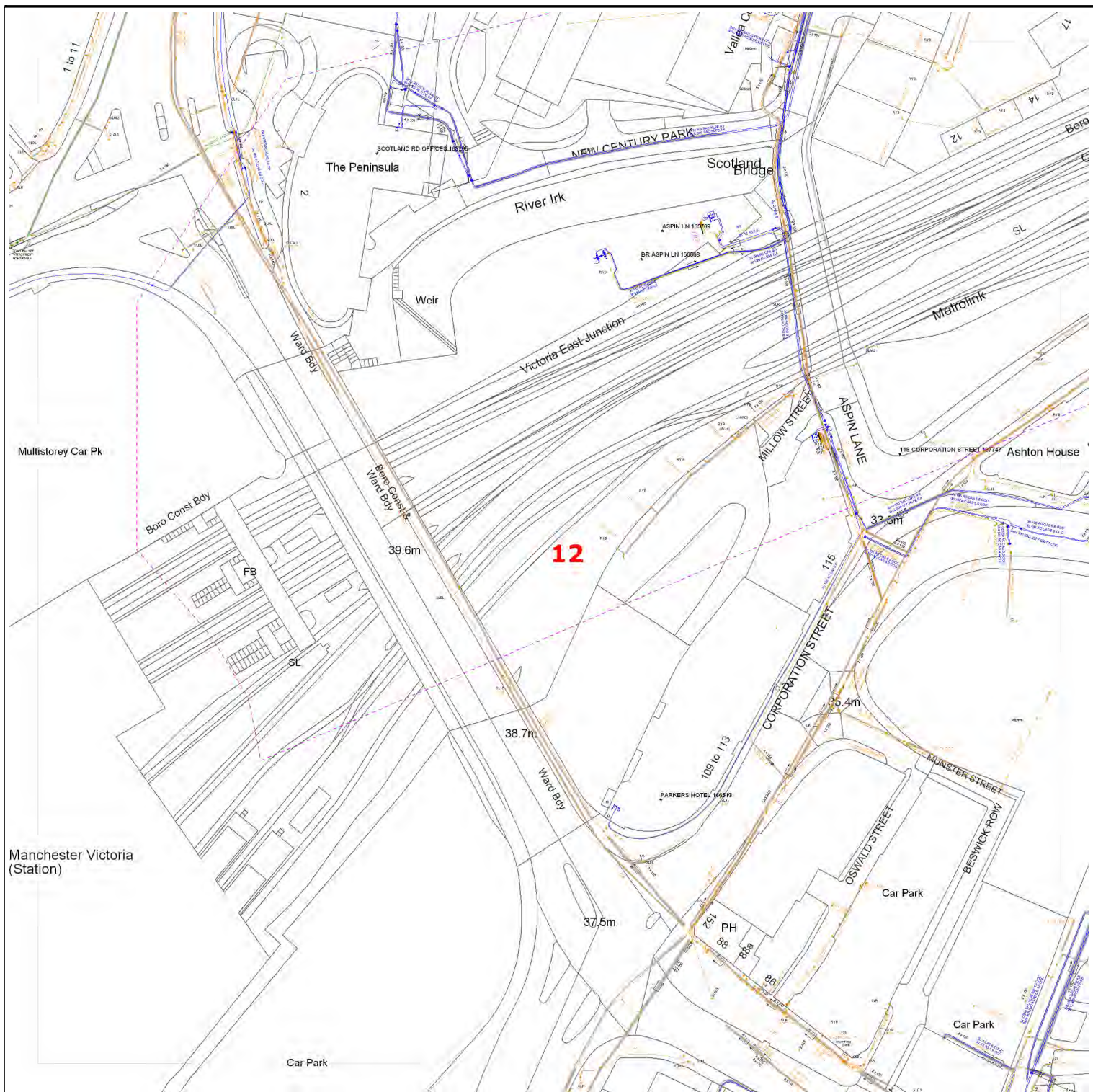
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Requested by: Chrissy Elliott

Company: Atkins

Date Requested: 15/06/2021

Job Reference: 22398525

Your Scheme/Reference: 97079/HaK

Dig Sites:

Area ---- Line ----

Operating Voltage

Colour Code

Line Colour

132kV

Black



33kV

Green



22kV-25kV

Yellow



11kV

Red



6kV-6.6kV

Blue



1kV-6kV

Violet



LV

Orange



Unknown Voltage

Brown



Data Management  
Electricity North West  
Linley House  
Dickinson Street  
Manchester, M1 4LF  
Phone: 0800 195 4141  
Email: [planrequest@enwl.co.uk](mailto:planrequest@enwl.co.uk)

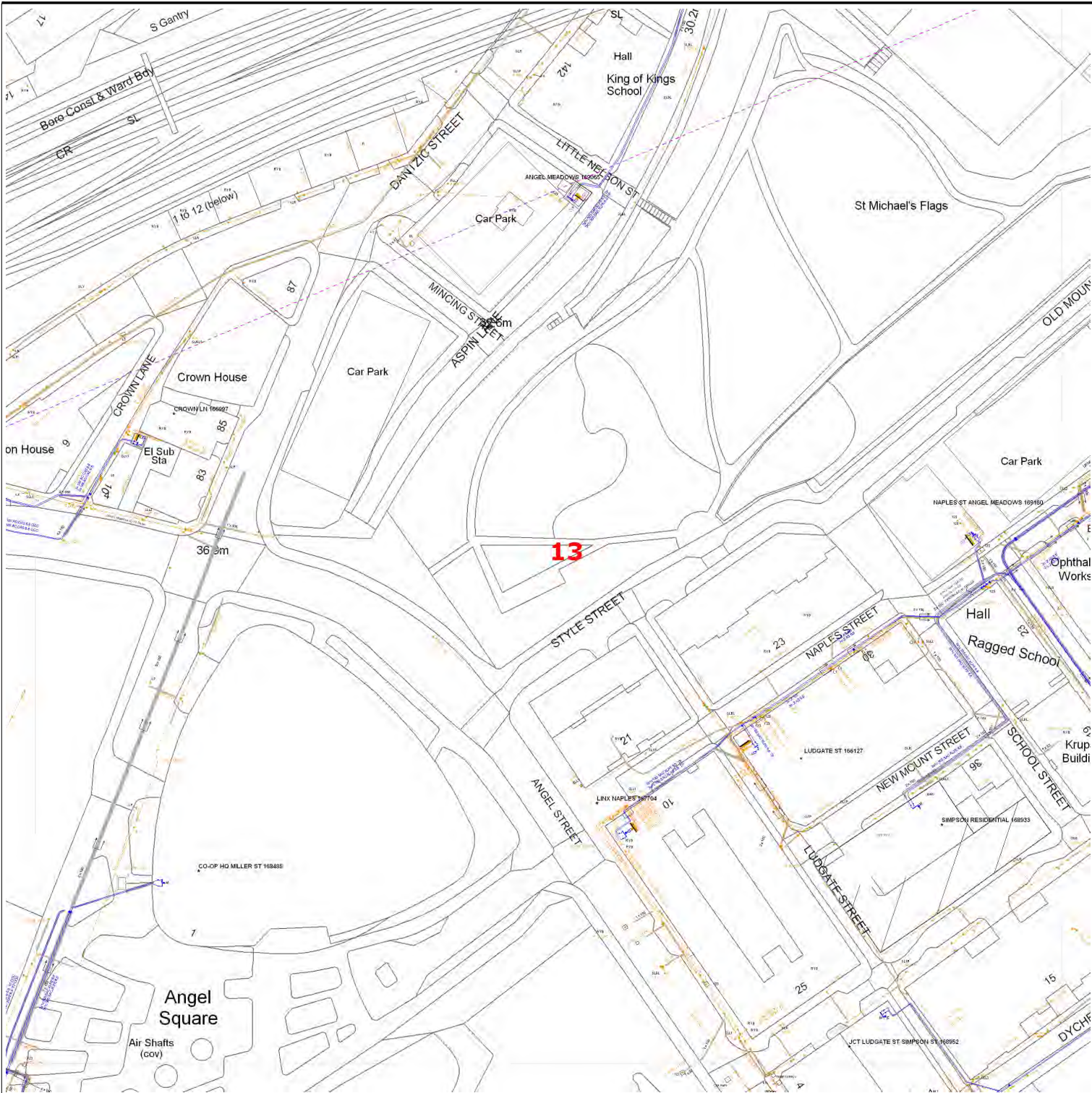
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Requested by:</b> Chrissy Elliott<br><b>Company:</b> Atkins<br><b>Date Requested:</b> 15/06/2021<br><b>Job Reference:</b> 22398525<br><b>Your Scheme/Reference:</b> 97079/HaK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Operating Voltage</b>                                                            | <b>Colour Code</b>                                                   | <b>Line Colour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 132kV<br>33kV<br>22kV-25kV<br>11kV<br>6kV-6.6kV<br>1kV-6kV<br>LV<br>Unknown Voltage | Black<br>Green<br>Yellow<br>Red<br>Blue<br>Violet<br>Orange<br>Brown | <br><br><br><br><br><br><br> |
| <b>Dig Sites:</b><br><br>Area  Line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <br><br><b>Data Management</b><br>Electricity North West<br>Linley House<br>Dickinson Street<br>Manchester, M1 4LF<br>Phone: 0800 195 4141<br>Email: <a href="mailto:planrequest@enwl.co.uk">planrequest@enwl.co.uk</a><br><br><b>Scales on A4 paper:</b><br>1:1250 Area dig site<br>1:250 Line dig site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

# Conditions and information regarding electricity mains

These general conditions and precautions apply to the electricity distribution system of Electricity North West Limited.

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

1. There may be other Electricity North West Limited apparatus in the vicinity, which is not indicated on the cable records. Other apparatus may also be present which a third party owns other than Electricity North West Limited
2. Before any machines are used all of Electricity North West's underground apparatus should be located by manual excavation taking the appropriate safety precautions in accordance with the **Health and Safety Executive Guidance note HS(G)47 "Avoiding danger from underground services"**. This contains advice to site personnel when working near underground services.

Underground services, particularly electricity and gas, can be dangerous. Damage to electricity cables can cause a dangerous flash, leading to severe burns or even death. Gas leaks can cause fire or explosion.

Damage can result from excavation or penetration of the ground, e.g. by a road pin.

Underground services may be found in roads, footpaths and on sites. Always assume that they are present. Treat any services found anywhere as live.

Accidents have happened because people have mistaken one service for another, e.g. black plastic covered electricity cables look like black plastic water pipes and cast iron gas and water mains look alike. Check before you act.

3. Before starting work you must:
  - Make sure you have plans of the underground services in the area. This may not always be possible for emergency or unforeseen works. **Remember that service connection cables and pipes from the main to building or streetlight may not be shown.**
  - Use a cable and pipe locator to trace electricity cables and metal pipes.
  - Look for signs of service connection cables or pipes, e.g. a gas meter or service connection entry into a house or a streetlight.
  - Hand dig trial holes (as many as necessary) to confirm the position of services in close proximity to the area of work.

## 4. When you start work:

- Hand dig near buried services whenever possible. Spades and shovels are safer than picks, pins or forks.
- Remember that cables may be embedded in concrete. Electricity cables embedded in concrete **must** either be made dead before the concrete is broken out or another safe way of working agreed with the cable owner.
- Watch out for signs of services as work continues.
- Report damage to a cable, pipe or pipe coating however slight.
- Do not use hand held power tools within 0.5m of the marked position of an electricity cable, unless this is impracticable and the line of the cable has been identified by plans and positively confirmed by a locator.
- Do not use hand held power tools directly over the marked line of cable unless:
  - a) You have already found the cable at that position by careful hand digging beneath the surface and it is at a safe depth (at least 300mm) below the bottom of the surface to be broken, or
  - b) Physical means have been used to prevent the tool striking it.
- If an excavator is used near an electricity cable keep everyone clear of the bucket while it is digging. Buckets should not be used near cable – hand dig.
- Do not use exposed services as a convenient step or handhold.
- Do not handle or attempt to alter the position of an exposed service.
- Do not install plant close to an existing service.
- Do not build existing services into a manhole or other structure or encase them in concrete.

Would you also ensure that all site operators have this information and if any electrical apparatus is damaged, they/you should contact Electricity North West Limited fault desk on **0800 195 4141 (option 1)**

5. Overhead lines are not necessarily shown on the Electricity North West Limited cable records but may be present. In the event of work being carried out adjacent to overhead lines (including access, storage etc.) please always ensure strict adherence to the requirements of the **Health and Safety Executive's Document GS6 "Avoidance of Danger from Overhead Electric Lines"**.

Extreme personal danger can result from contact, or near contact, with live conductors or overhead lines.

**Treat all overhead lines and other electrical apparatus as live. If in doubt, get advice.**

6. Electricity North West Limited must be consulted if work is to take place within 15 metres of overhead lines on steel towers or 9 metres of overhead lines on wood, concrete or steel pylons. (All distances should be measure at ground level from a position estimated by eye to be vertically under the outermost conductor at a tower or pole position) Any person involved in work in the vicinity of overhead lines should:
- Understand and follow the instructions given on safe working areas and methods of work.
  - Make sure that warning notices are in the cabs of machines working in the vicinity of an overhead line.
  - Make sure that barriers and warning notices are erected as required.
  - Not tip soil or stack material underneath overhead lines as this may reduce the clearance to an unsafe distance.
  - Make sure when handling or using platforms, scaffold, poles, piping, ladders, hand tools etc., that they are kept at a safe distance from overhead lines.
  - Not steady a suspended load, skip, hoist wire, slings etc., unless satisfied that there isn't any danger from overhead lines.
  - Remember that when mobile plant, such as a crane or excavator, is operating near overhead lines, the raising or slewing of the jib may introduce danger.
  - Always keep overhead lines in view when manoeuvring mobile plant.
  - Never operate a machine unless carefully guided by an experienced banksman.
  - Not approach or touch any broken or fallen conductors or any plant in contact with an overhead line before Electricity North West Limited confirms that conditions are safe. Warn others to keep well clear.

**Machine operators should note that:** if a machine comes into contact with an overhead line and cannot be disentangled by backing off, remain seated in the cab and warn others to keep clear of the machine until Electricity North West Limited confirms that conditions are safe. If it is essential to

leave the machine while it is in contact with the overhead line, for example if it catches fire, jump well clear – and **do not** attempt to climb down in the normal way nor touch any part of the machine when on the ground.

7. Electricity North West Limited provides approximate locations of its electricity mains or apparatus according to its records but these records are not necessarily accurate or complete and do not always show the position of private cables from mains to properties. No person or company shall be relieved from liability for any damage caused by reason of the actual positions and/or depths being different from those indicated.

8. Care should be taken when excavating near cables. Known road crossings are highlighted on the enclosed plans. Should any cable, or Electricity North West Limited apparatus indicated on the attached plans, be affected by your proposals please contact us as follows:

Data Management  
Linley House  
Dickinson St  
Manchester  
M1 4LF

Telephone: **0800 195 4141 (option 2)**

Details of diversion costs, if any, will be provided on request once your firm proposals have been submitted.

9. Please note that service cables may be affected by some of the works being carried out on site.

If any services do require temporary disconnection please phone **0800 195 4141 (option 2)** for domestic and commercial disconnection, so that arrangement can be made to disconnect before work commences on site.

10. For information regarding supplies please contact us on **0800 195 4141 (option 2)**.

11. Please note that cable records supplied may not be up to date, or may be incomplete, if the area concerned is a new site.

12. For information regarding wayleave or easement agreements contact:

|            |                     |
|------------|---------------------|
| Manchester | <b>08433 115157</b> |
| Preston    | <b>08433 113969</b> |
| Kendal     | <b>08433 115155</b> |

13. The latest cable records are always available for inspection during normal working hours and you should satisfy yourself that the information you have is up to date at the time you commence work. This service is consistent with the requirement of Regulation 36 of the Electricity Supply Regulations and paragraph 79 of the New Road and Street Works Act.

Please contact Data Management on **0800 195 4141 (option 2)** to arrange an appointment to view the records.



304 Bridgewater Place  
Birchwood Park  
Warrington  
WA3 6XG

[www.enwl.co.uk](http://www.enwl.co.uk)

Registered in England and Wales  
Registered Number 2366949

**Murthy, Srinivasa**

CHECKED

**From:** Plantenquiries <Plantenquiries@instalcom.co.uk>  
**Sent:** 16 June 2021 18:15  
**To:** Utility Solutions GDC Requests  
**Subject:** E06-21-3925 RE: Plant Enquiry - 97079 - Site off Dantzic Street, Manchester - Please respond by 17/06/2021  
**Attachments:** 97079 - Site off Dantzic Street, Manchester.pdf; Guide To Excavation.pdf

Dear Sir or Madam,

With reference to your enquiry regarding the above noted location, we enclose the drawings on behalf of Lumen Technologies (formerly CenturyLink Communications UK Limited) indicating the approximate position of services in this area.

If you need access to the railway / underground lines as part of your works could you please contact Peter Walton ([peter.walton@lumen.com](mailto:peter.walton@lumen.com)) for further information about the location of this equipment.

We would draw your attention to the fact that while the position of the plant has been shown as accurately as possible, the information is intended as a general guide only and must not be relied upon in the event of any excavations or other work in the vicinity. **We would remind you that the onus remains on you to determine the exact position for example by a hand excavated trial hole.** Instalcom accepts no liability for claims arising from any inaccuracy, omissions or errors contained herein. If you would like to query the location further, please email us accordingly and we can arrange an in depth survey, which will be charged at a cost. Enclosed is a guide to excavation works around existing plant.

Instalcom responds to plant enquiries for Lumen Technologies (formerly CenturyLink Communications UK Limited, Level 3, GLOBAL CROSSING (UK) LTD, GLOBAL CROSSING PEC and FIBERNET UK LTD and FIBRESPAN LTD) simultaneously and therefore you only need send one copy of a plant enquiry to cover all of these companies.

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

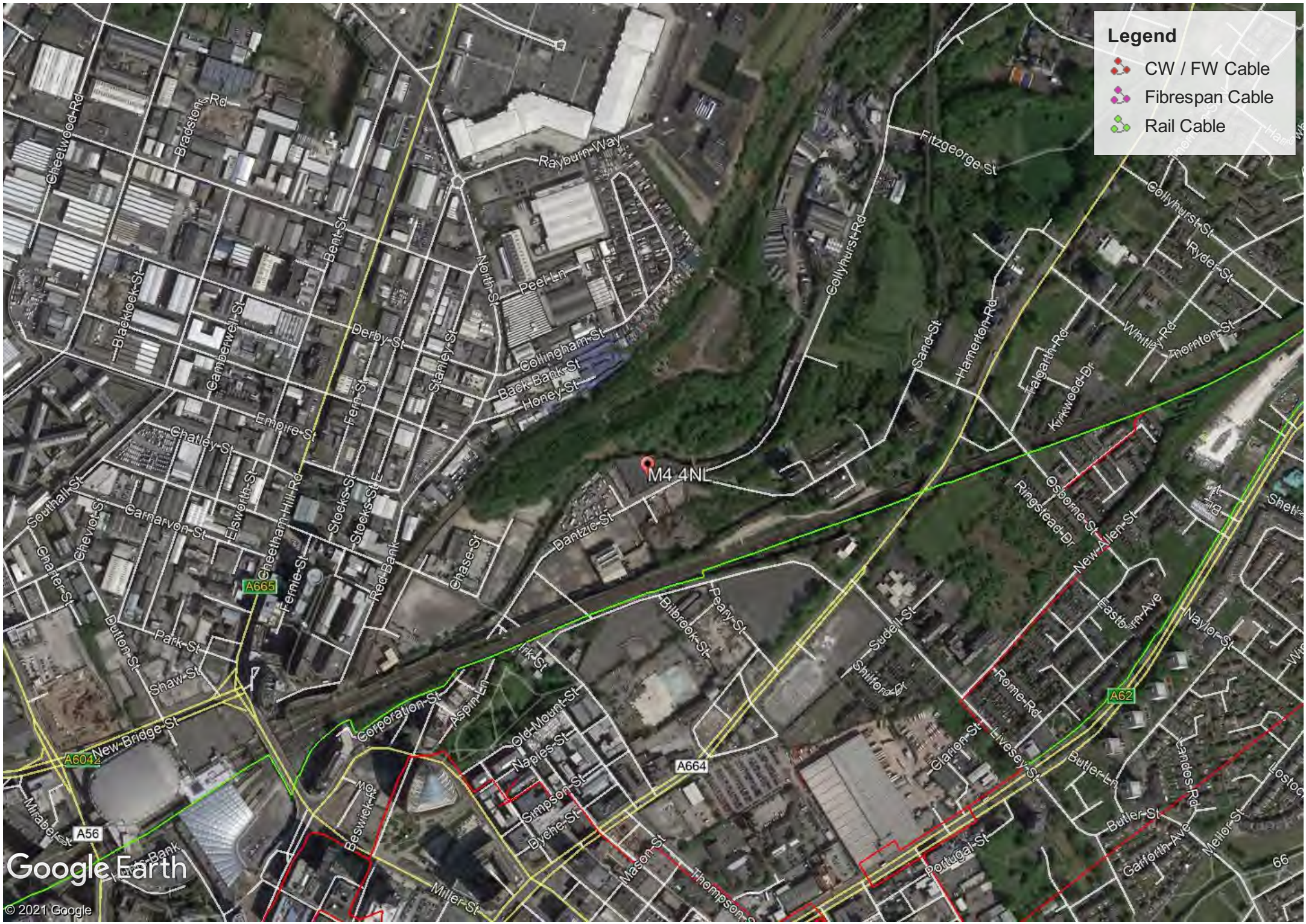
Plant Enquiries Dept  
Instalcom Limited  
Borehamwood Ind. Park  
Rowley Lane  
Borehamwood  
WD6 5PZ

Office: +44 (0)208 731 4613  
Fax: +44 (0)208 731 4601  
Email: [plantenquiries@instalcom.co.uk](mailto:plantenquiries@instalcom.co.uk)  
Web: <http://www.instalcom.co.uk>



**Legend**

-  CW / FW Cable
-  Fibrespan Cable
-  Rail Cable



## **SPECIAL REQUIREMENTS IN RELATION TO LUMEN TECHNOLOGIES PLANT**

1. In this special requirement, the following terms shall have the meanings assigned to it:-
  - a. "Company" means Lumen Technologies.
  - b. "Company Representative" means the staff of Lumen Technologies or its Authorized Representatives and Agents.
  - c. "Apparatus" means all surface or sub-surface equipment and plant including any associated cabling and/or ducting owned leased or rented by Lumen Technologies.
2. Before commencing any work or moving heavy plant or equipment over any portion of the site, the contractor shall confirm details of the Apparatus, owned, leased or rented by the Company, within the site with the Company Representative, who can be contacted at the following point: -

**Instalcom Limited**  
**Borehamwood Industrial Park**  
**Rowley Lane**  
**Borehamwood**  
**Hertfordshire**  
**WD6 5PZ**  
**Tel: 0208 731 4600**  
**Fax: 0208 731 4601**  
**E-mail: [plantenquiries@instalcom.co.uk](mailto:plantenquiries@instalcom.co.uk)**

3. Where such details show that the works or the movement of plant or equipment may endanger the Apparatus of the Company the Contractor must give the Company Representative at least 7 days written notice of the date on which it is intended to commence such works of the movement of plant and equipment in order that the presence of any sub-surface apparatus can be indicated by markers to be supplied by the Company and placed by the Contractor under the supervision of a Company Representative. The Contractor shall ensure that all Company Apparatus, particularly surface running cabling is adequately protected from damage and such protective measures shall be approved by the Company Representative.
4. In the event of a Company marker being disturbed for any reason, it shall not be replaced other than in the exact position of its former depth unless the repositioning is carried out at the direction and under the supervision of a Company Representative.
5. The Contractor shall take particular care in relation to the protection of Company Apparatus, where such Apparatus includes the presence within the site of optical fibre cabling. The contractor should particularly note that the damage to such Apparatus is extremely disruptive to the Company network and costly to reinstate. The Contractor shall make every effort to avoid the disturbance of Company Apparatus more than is absolutely necessary for the completion of the works in accordance with the contract.

6. When excavating around, moving or backfilling around Company Apparatus, the Company Representative shall be given adequate notice, which shall not be less than 3 days, of the contractor's intentions in order that he may supervise the works. The Contractor should note that the normal depth of cover for Company Apparatus and ducts are as follows: -

- a. Carriageways 600mm
- b. Footways 350mm
- c. Verges 450mm

These minimum depths of cover should be maintained wherever possible.

Where the minimum depths of cover cannot be maintained, the Contractor shall carry out the instructions of the Company Representative for the protection of Company Apparatus.

Where cables are not in duct and the required depth of cover cannot be maintained, such cables as are affected shall be enclosed and protected in UPVC duct or equivalent materials as supplied by the Company and by the method directed by the Company Representative.

With regard to excavation in the vicinity of Company Apparatus the Contractor should have particular regard to the possibility of reduced cover and the encountering of such Company Apparatus at depths of cover less than that given at **a, b and c above**.

7. All excavation adjacent to Company Apparatus is to be carried out by hand until the exact extent and/or location of Company Apparatus is known. Mechanical borers and/or excavators shall not be used within 1.0m of Company Apparatus without the supervisory presence of a Company Representative, to prevent any movement of Company Apparatus during excavations, complete shuttering shall be used as directed by the Company Representative if:-

- a. Excavation is deeper than the depth of cover of adjacent Company Apparatus.
- b. Excavation is within 1.0m of Company Apparatus in stable ground.
- c. Excavation is within 5.0m of Company Apparatus in unstable ground.

If for the completion of the works, the Contractor intends using any of the following: -

- a. Pile driving equipment within 10.0m of Company Apparatus.
- b. Explosives within 20.0m of Company Apparatus.
- c. Laser equipment within 10.0m of Company Apparatus.

The Contractor shall advise the Company Representative, giving at least 7 working days written notice in order that any special protective measure for the Company Apparatus affected may be arranged.

8. All Company manhole, joint box and /or other access points and chambers within the site shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and/or further equipment required by the Company for the maintenance of it's Apparatus, must be maintained at all reasonable times. The Contractor should particularly note that footway type jointing chambers are not specified for carriageway loadings and will need to be adequately protected and/or demolished and rebuilt under the supervision of a Company Representative where such chambers are likely to be placed at risk, either temporarily or permanently, from the movement of plant and/or equipment on the site.

9. The covers to Company chambers and/or Apparatus shall only be lifted by means of appropriate keys obtained from the Company Representative and under the direct supervision of the Company Representative. No employee of the Contractor or of any sub-contractor employed by the Contractor shall enter any chamber and/or Apparatus of the Company unless under the supervision of the Company Representative and in any case not before the mandatory gas check has been carried out in the presence of the Company Representative and such checks have shown it to be safe to enter the chamber and/or Apparatus of the Company.

The Company Representatives shall be given reasonable access to all Company Apparatus and chambers when required.

10. In the event of any damage whatsoever to Company Apparatus, the Contractor shall immediately inform the Company Representative and report the occurrence immediately by contacting the Company as follows:-

**Telephone:-**

**0208 731 4600**  
**Mon-Fri Office Hours (Instalcom Head Office)**

**0845 330 8615**  
**Out of Office Hours / Weekends**

11. The above requirements do not relieve the Contractor of any of his obligations under the Contract.

**The accuracy of information on the plans cannot be guaranteed and no liability can be accepted for errors or omissions.**

**Damage to Communications Plant is Expensive – Please Take Care.**



Our Ref: Ref shown on map

Date of issue: shown on map

email: [nnhc@openreach.co.uk](mailto:nnhc@openreach.co.uk)

Dear Customer,

**NR & SW ACT 1991 – PROPOSED WORKS AT: \*\*SITE LOCATION\*\***

Prior to commencement of work: For free onsite guidance and accurate up to date location of BT Apparatus please contact our Plant Protection Service by the following methods:-

Email the Click Before You Dig Team [CBYD@openreach.co.uk](mailto:CBYD@openreach.co.uk)

Visit the Click Before You Dig Website [www.openreach.co.uk/cbyd](http://www.openreach.co.uk/cbyd)

Thank you for your request of \*\*/\*\*/\*\* describing the above proposals.

Enclosed are copies of our drawings marked up to show the approximate locations of BT apparatus in the immediate vicinity of your works. It is intended for general guidance only. No guarantee is given of its accuracy.

The drawings are valid for 90 days from the date of issue and should not be relied upon after this time period has expired.

When planning excavation work or other works near to BT apparatus, please be mindful our apparatus may exist at various depths and may deviate from the marked route.

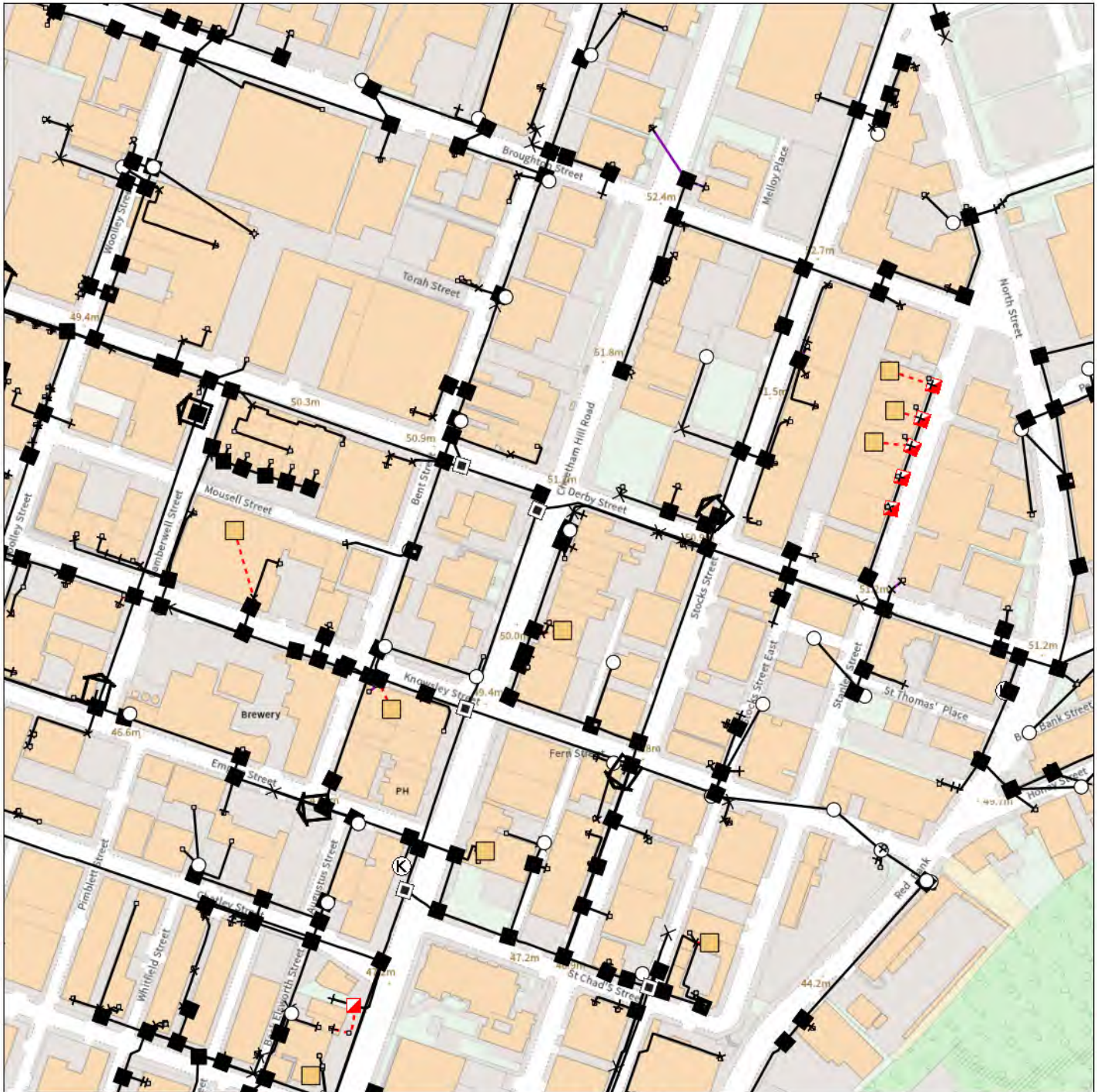
To avoid damage it is recommended that mechanical excavators or borers are not used within 600mm of BT apparatus. If scaffolding is erected, please ensure that our equipment is not enclosed, blocked, covered or otherwise obstructed by the scaffolding.

In the event of BT apparatus being in the area of your works we recommend that your plant/vehicle crossing is either resited, or apply for a budget estimate by submitting detailed plans to our Network Relocation Team at <https://www.ournetwork.openreach.co.uk/altering-our-network.aspx>

Yours faithfully,

**Julie Cullum**  
**NNHC & MBE Manager**

# Maps by email Plant Information Reply



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[www.openreach.co.uk/cbyd](http://www.openreach.co.uk/cbyd)

### Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

## KEY TO BT SYMBOLS

|             |             |                 |                |                                                                                                                                                                                                                                                            |  |
|-------------|-------------|-----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|             |             | Change Of State | +              | Hatchings                                                                                                                                                                                                                                                  |  |
|             |             | Split Coupling  | X              | Built                                                                                                                                                                                                                                                      |  |
| PCP         |             |                 |                | Planned                                                                                                                                                                                                                                                    |  |
| Pole        |             |                 |                | Inferred                                                                                                                                                                                                                                                   |  |
| Box         |             |                 |                | Duct                                                                                                                                                                                                                                                       |  |
| Manhole     |             |                 |                |                                                                                                                                                                                                                                                            |  |
| Cabinet     |             |                 |                |                                                                                                                                                                                                                                                            |  |
|             |             |                 |                | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |  |
|             | Pending Add | In Place        | Pending Remove | Not In Use                                                                                                                                                                                                                                                 |  |
| Power Cable |             |                 |                |                                                                                                                                                                                                                                                            |  |
| Power Duct  |             |                 |                | N/A                                                                                                                                                                                                                                                        |  |

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BT Ref : LDW11072K

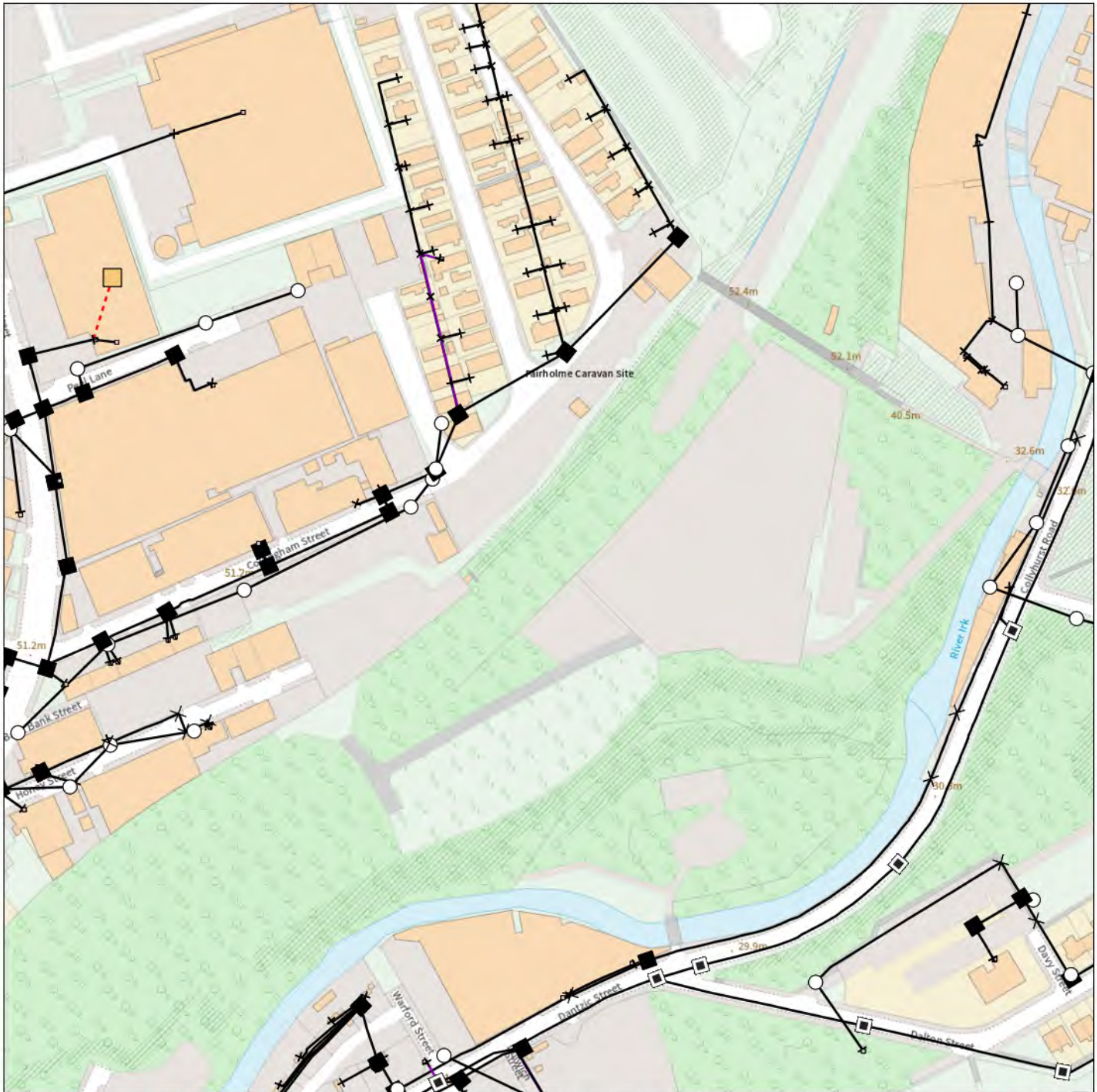
Map Reference : (centre) SJ8422099731

Easting/Northing : (centre) 384220,399731

Issued : 15/06/2021 23:07:13

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# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

|             | Planned     | Live     | Change Of State                                                                                                                                                                                                                                   | +          | Hatchings |  |
|-------------|-------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|--|
| PCP         |             |          | Split Coupling                                                                                                                                                                                                                                    |            | Built     |  |
| Pole        |             |          | Duct Tee                                                                                                                                                                                                                                          |            | Planned   |  |
| Box         |             |          | Building                                                                                                                                                                                                                                          |            | Inferred  |  |
| Manhole     |             |          | Kiosk                                                                                                                                                                                                                                             |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove                                                                                                                                                                                                                                    | Not In Use |           |  |
| Power Cable |             |          |                                                                                                                                                                                                                                                   |            |           |  |
| Power Duct  |             |          |                                                                                                                                                                                                                                                   | N/A        |           |  |

BT Ref : YZI11074F

Map Reference : (centre) SJ8468499731

Easting/Northing : (centre) 384684,399731

Issued : 15/06/2021 23:07:18

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# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

|             | Planned     | Live     | Change Of State                                                                                                                                                                                                                                            | +          | Hatchings |  |
|-------------|-------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|--|
| PCP         |             |          | Split Coupling                                                                                                                                                                                                                                             |            | Built     |  |
| Pole        |             |          | Duct Tee                                                                                                                                                                                                                                                   |            | Planned   |  |
| Box         |             |          | Building                                                                                                                                                                                                                                                   |            | Inferred  |  |
| Manhole     |             |          | Kiosk                                                                                                                                                                                                                                                      |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             | Pending Add | In Place | Pending Remove                                                                                                                                                                                                                                             | Not In Use |           |  |
| Power Cable |             |          |                                                                                                                                                                                                                                                            |            |           |  |
| Power Duct  |             |          |                                                                                                                                                                                                                                                            | N/A        |           |  |

BT Ref : SRO11079E

Map Reference : (centre) SJ8514999731

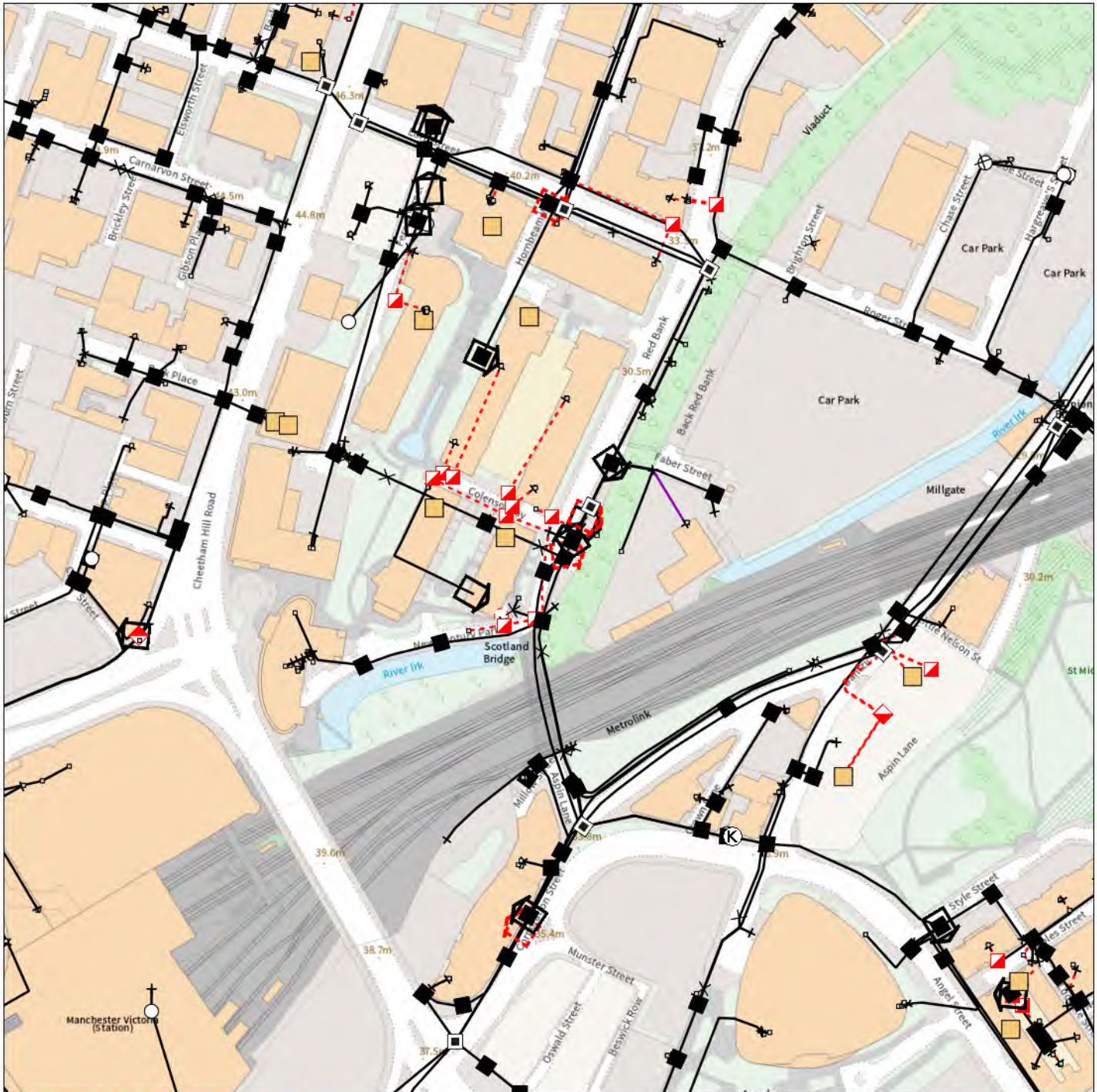
Easting/Northing : (centre) 385149,399731

Issued : 15/06/2021 23:07:18

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# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

|             | Planned     | Live     | Change Of State                                                                                                                                                                                                                                            | +          | Hatchings |  |
|-------------|-------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|--|
| PCP         |             |          | Split Coupling                                                                                                                                                                                                                                             |            | Built     |  |
| Pole        |             |          | Duct Tee                                                                                                                                                                                                                                                   |            | Planned   |  |
| Box         |             |          | Building                                                                                                                                                                                                                                                   |            | Inferred  |  |
| Manhole     |             |          | Kiosk                                                                                                                                                                                                                                                      |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines.<br>BT Symbols not listed above may be disregarded.<br>Existing BT Plant may not be recorded.<br>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             |             |          |                                                                                                                                                                                                                                                            |            |           |  |
|             | Pending Add | In Place | Pending Remove                                                                                                                                                                                                                                             | Not In Use |           |  |
| Power Cable |             |          |                                                                                                                                                                                                                                                            |            |           |  |
| Power Duct  |             |          |                                                                                                                                                                                                                                                            | N/A        |           |  |

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BT Ref : YDP110750

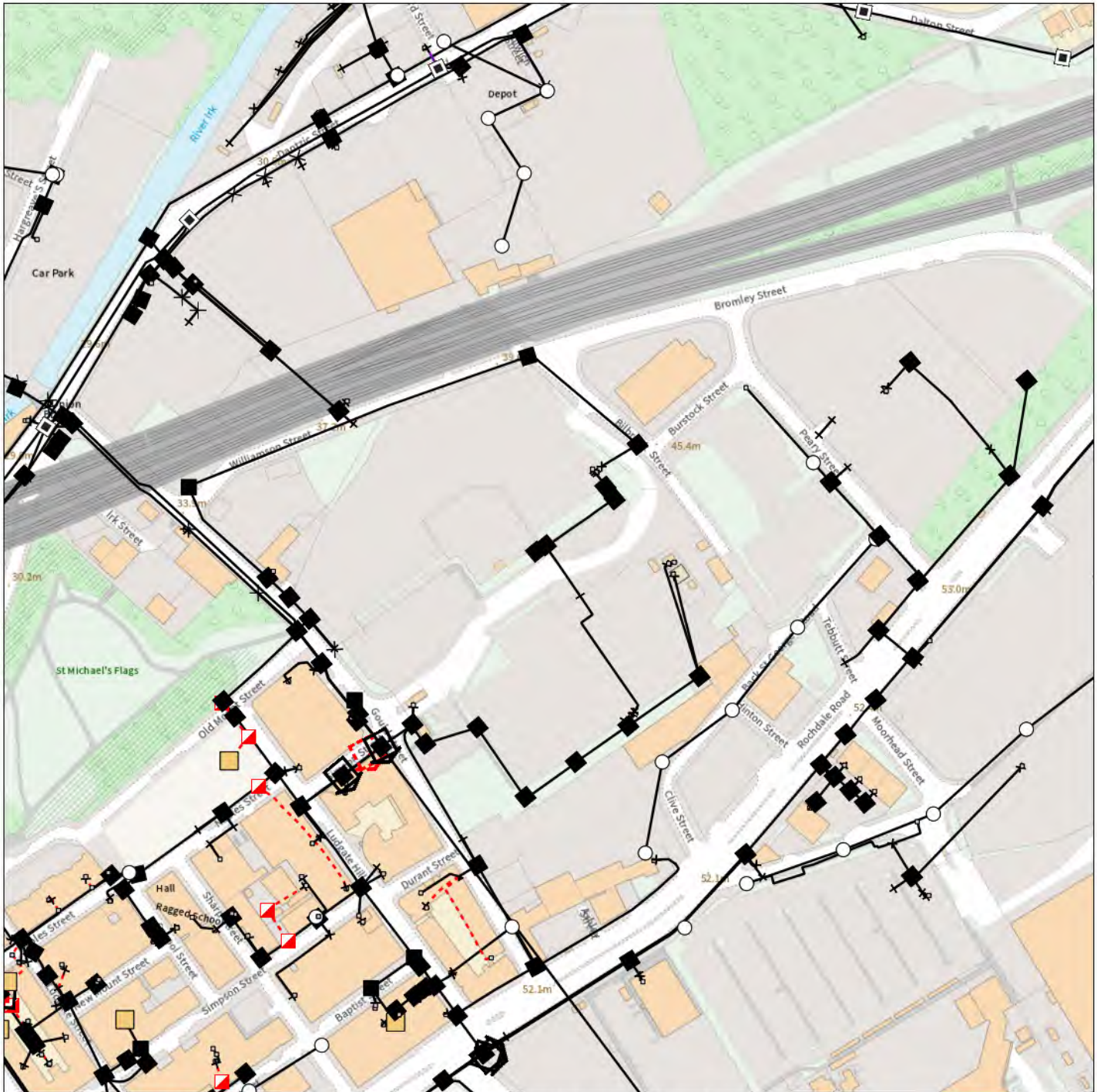
Map Reference : (centre) SJ8422099266

Easting/Northing : (centre) 384220,399266

Issued : 15/06/2021 23:07:23

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# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

|             | Planned     | Live     | Change Of State                                                                                                                                                                                                                                   | +          | Hatchings |  |
|-------------|-------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|--|
| PCP         |             |          | Split Coupling                                                                                                                                                                                                                                    |            | Built     |  |
| Pole        |             |          | Duct Tee                                                                                                                                                                                                                                          |            | Planned   |  |
| Box         |             |          | Building                                                                                                                                                                                                                                          |            | Inferred  |  |
| Manhole     |             |          | Kiosk                                                                                                                                                                                                                                             |            | Duct      |  |
| Cabinet     |             |          | Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication. |            |           |  |
|             |             |          |                                                                                                                                                                                                                                                   |            |           |  |
|             | Pending Add | In Place | Pending Remove                                                                                                                                                                                                                                    | Not In Use |           |  |
| Power Cable |             |          |                                                                                                                                                                                                                                                   |            |           |  |
| Power Duct  |             |          |                                                                                                                                                                                                                                                   | N/A        |           |  |

BT Ref : IRP11077H

Map Reference : (centre) SJ8468499266

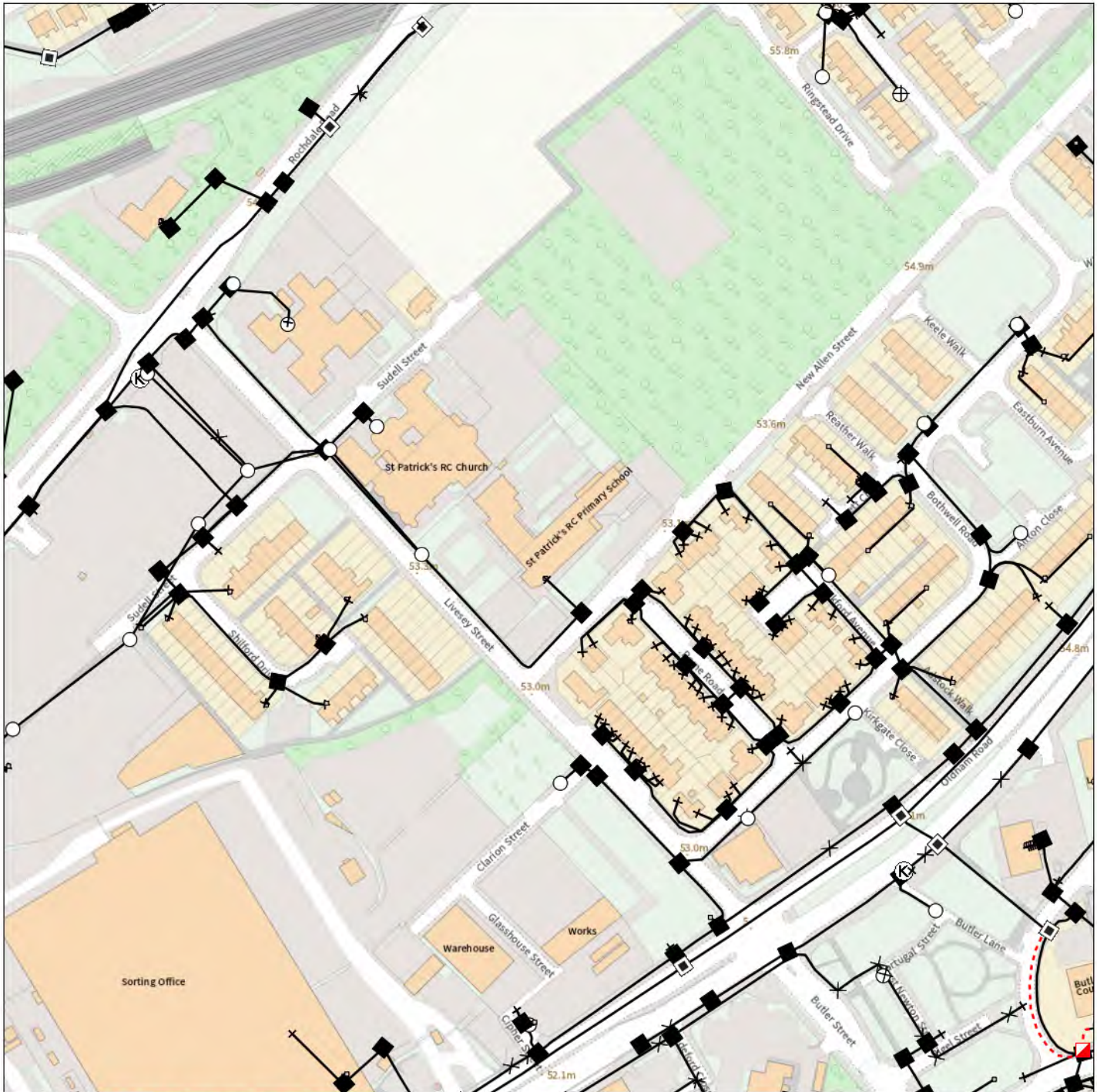
Easting/Northing : (centre) 384684,399266

Issued : 15/06/2021 23:07:28

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# Maps by email Plant Information Reply



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## KEY TO BT SYMBOLS

| KEY TO BT SYMBOLS |                                                                                     |                                                                                      | Change Of State                                                                                                                                                                                                                                                      | +                                                                                     | Hatchings |  |
|-------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
|                   | <i>Planned</i>                                                                      | <i>Live</i>                                                                          | Split Coupling                                                                                                                                                                                                                                                       | ×                                                                                     | Built     |  |
| PCP               |  |  | Duct Tee                                                                                                                                                                                                                                                             | ▲                                                                                     | Planned   |  |
| Pole              |  |  | Building                                                                                                                                                                                                                                                             |  | Inferred  |  |
| Box               |  |  | Kiosk                                                                                                                                                                                                                                                                |  | Duct      |  |
| Manhole           |  |  | <p>Other proposed plant is shown using dashed lines.<br/>BT Symbols not listed above may be disregarded.<br/>Existing BT Plant may not be recorded.<br/>Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.</p> |                                                                                       |           |                                                                                       |
| Cabinet           |  |  |                                                                                                                                                                                                                                                                      |                                                                                       |           |                                                                                       |

|             | <i>Pending Add</i>                                                                  | <i>In Place</i>                                                                      | <i>Pending Remove</i>                                                                 | <i>Not In Use</i>                                                                     |
|-------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Power Cable |  |  |  |  |
| Power Duct  |  |  |  | N/A                                                                                   |

BT Ref : ZNY11078K

Map Reference : (centre) SJ8514999266

Easting/Northing : (centre) 385149,399266

Issued : 15/06/2021 23:07:33

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**Atkins - Utility Solutions**

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

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: 97079  
Our Ref: UUPS-ORD-298410  
Date: 22/06/2021**

**Dear Sirs**

**Location: Site off Dantzic Street Manchester**

I acknowledge with thanks your request dated 16/06/2021 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>.

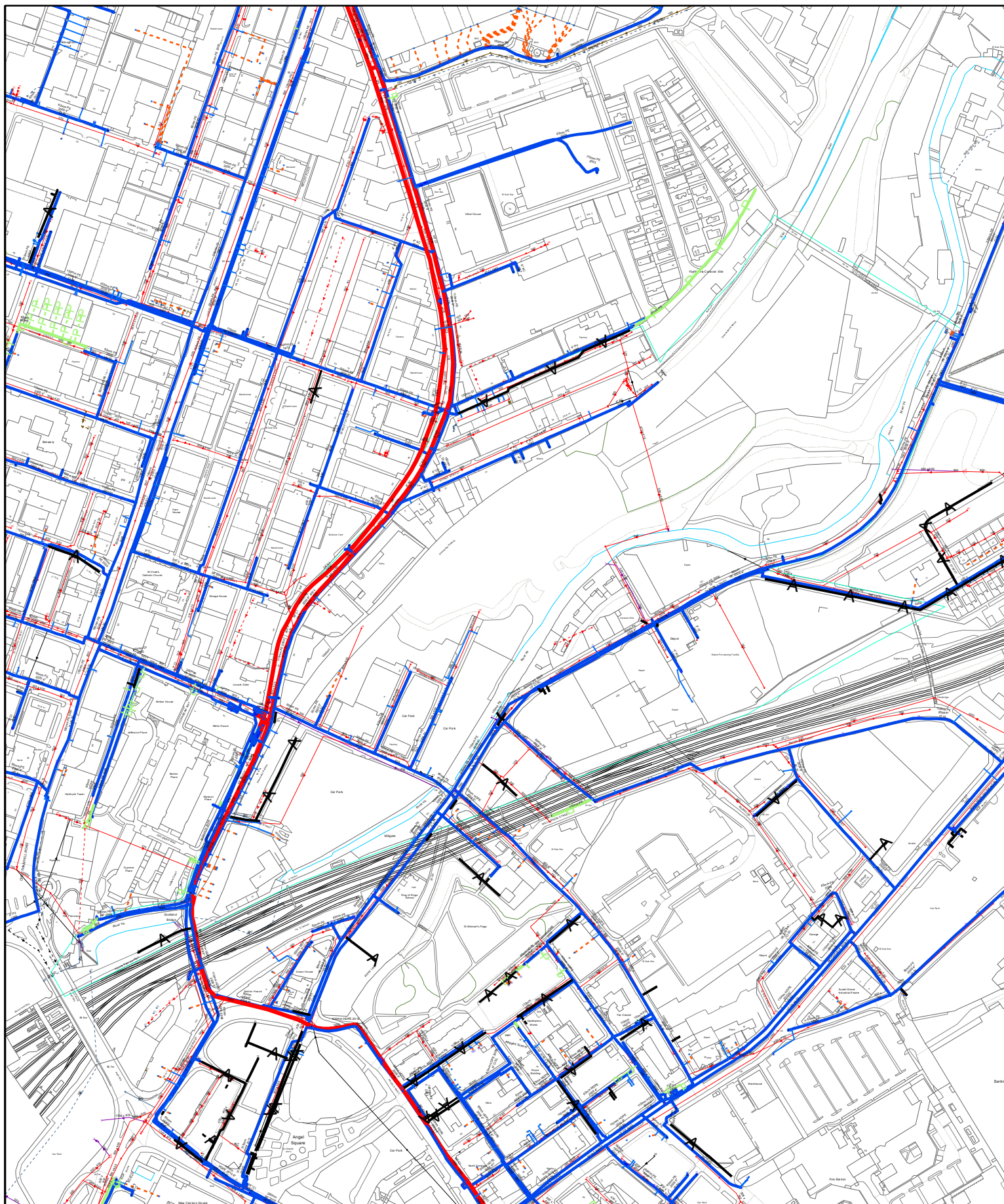
I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

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

Yours Faithfully,



Karen McCormack  
Property Searches Manager



Date: 22/06/2021

## Extract from maps of public sewers and water mains

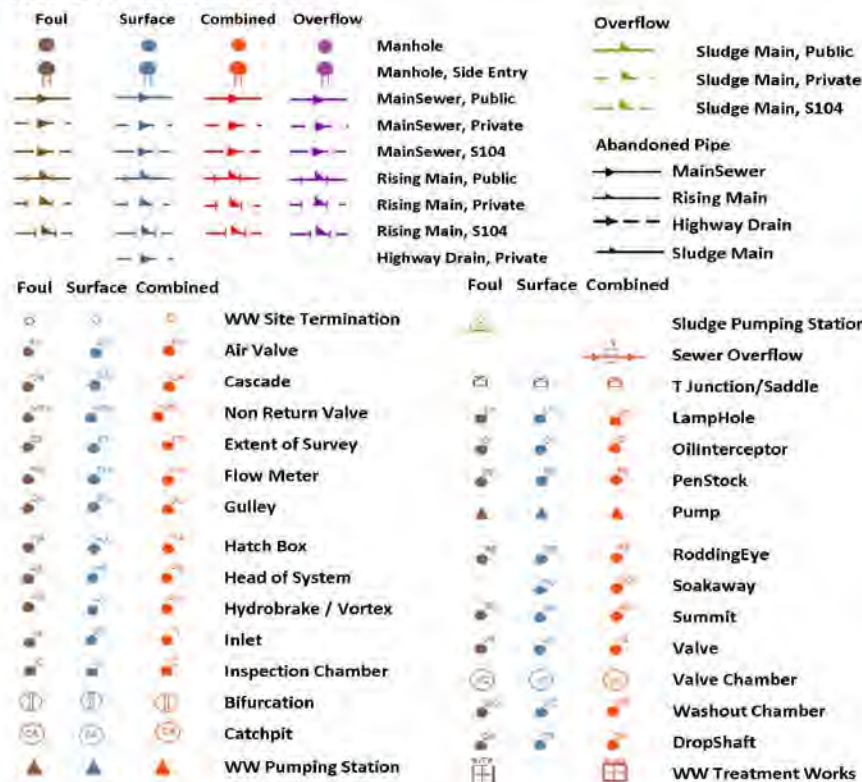
Printed By:  
Property Searches

Site off Dantzig Street Manchester

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

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## WASTE WATER SYMBOLOGY



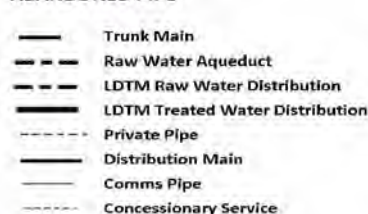
| Legend                    |                       |                |
|---------------------------|-----------------------|----------------|
| MANHOLE FUNCTION          | SEWER SHAPE           |                |
| FO Foul                   | CI Circular           | TR Trapezoidal |
| SW Surface Water          | EC Egg                | AR Arch        |
| CO Combined               | OV Oval               | BA Barrel      |
| OV Overflow               | FT Flat Top           | HO HorseShoe   |
|                           | RE Rectangular        | UN Unspecified |
|                           | SQ Square             |                |
| SEWER MATERIAL            |                       |                |
| AC Asbestos Cement        | DI Ductile Iron       |                |
| BR Brick                  | VC Vitrified Clay     |                |
| CO Concrete               | PP Polypropylene      |                |
| CSB Concrete Segment      | PF Pitched Fibre      |                |
| CSU Concrete Segment      | MA Masonry, Coursed   |                |
| CC Concrete Box Culverted | MA Masonry, Random    |                |
| PSC Plastic / Steel       | RP Reinforced Plastic |                |
| GR Glass Reinforced       | CI Cast Iron          |                |
| GRP Glass Reinforced      | SI Spun Iron          |                |
| PVC Polyvinyl Chloride    | ST Steel              |                |
| PE Polyethylene           | U Unspecified         |                |

## CLEAN WATER SYMBOLOGY

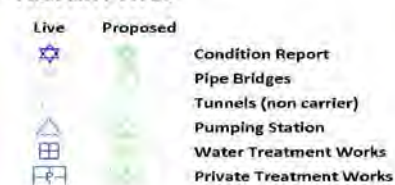
### PIPE WORK



### ABANDONED PIPE



### PROPERTY TYPES



### NODES/FURNITURES



| Legend             |                         |
|--------------------|-------------------------|
| MATERIAL TYPES     | LINING TYPES            |
| AC ASBESTOS CEMENT | CL CEMENT LINING        |
| CI CAST IRON       | TB TAR OR BITUMEN       |
| CU COPPER          | ERL EPOXY RESIN         |
| CO CONCRETE        |                         |
| DI DUCTILE IRON    | INSERTION TYPES         |
| GI GALVANISED IRON | DD DIE DRAWN            |
| GR GREY IRON       | DR DIRECTIONAL DRILLING |
| OT OTHERS          | MO MOLING               |
| PB LEAD            | PI PIPELINE             |
| PV UPVC            | SL SLIP LINED           |
| SI SPUN IRON       |                         |
| ST STEEL           |                         |
| UN UNKNOWN         |                         |
| PE POLYETHYLENE    |                         |

## TERMS AND CONDITIONS - WASTEWATER 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.

**Atkins - Utility Solutions**

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

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: 97079 - A1  
Our Ref: UUPS-ORD-303180  
Date: 01/07/2021

Dear Sirs

**Location: 97079 - A1**

I acknowledge with thanks your request dated 01/07/2021 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>.

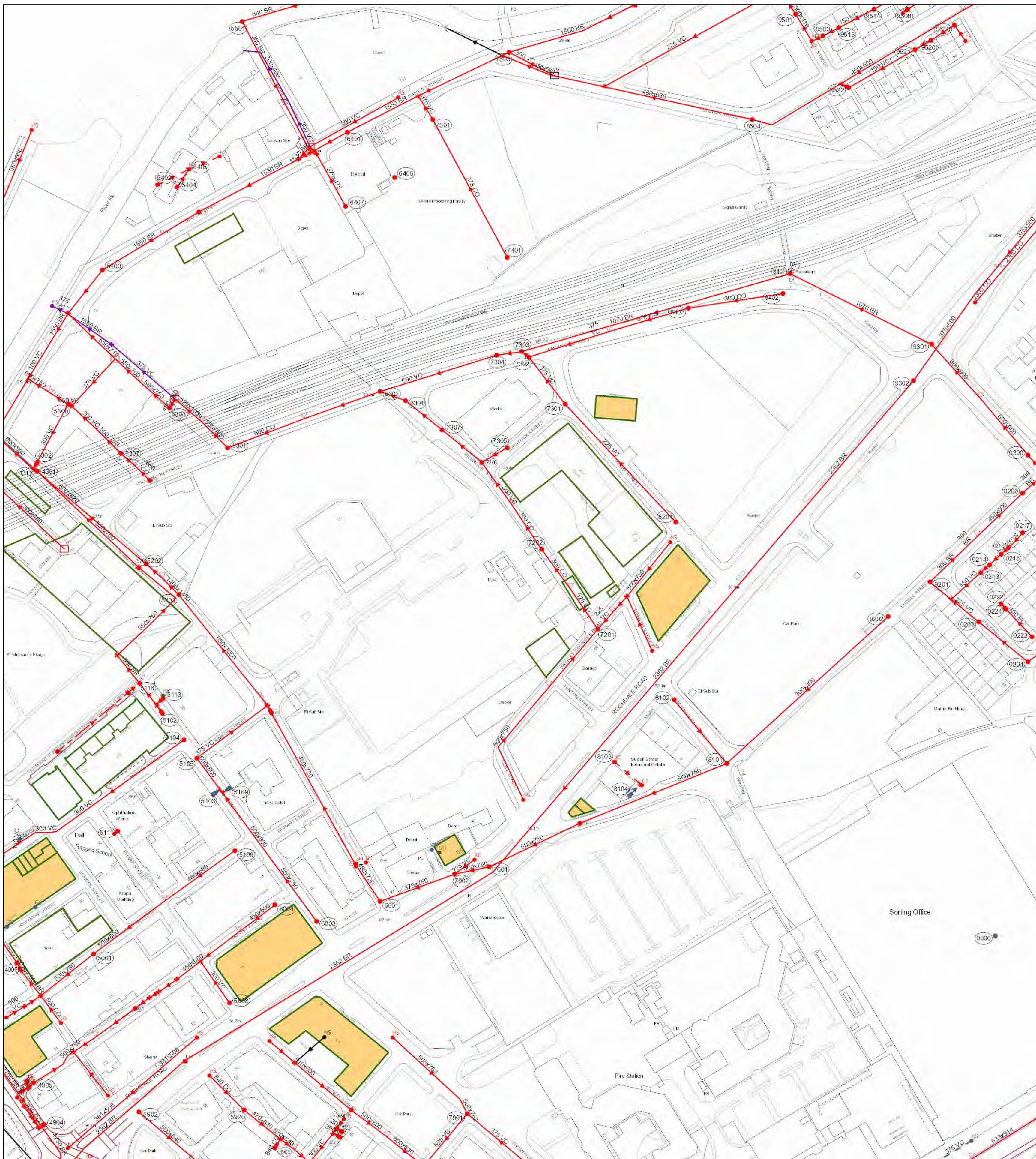
I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

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

Yours Faithfully,



Karen McCormack  
Property Searches Manager



| Reho | Cover | Func | Invert  | Size x | Size y | Shape | Matl     | Length  | Grad     |
|------|-------|------|---------|--------|--------|-------|----------|---------|----------|
| 7303 | 46.04 | CO   | 42.85   | 1070   | 150    | VC    | 14.4214  | 21.8863 | 1 in 236 |
| 5306 | 34.57 | CO   | 30.4    | 600    |        | CO    | 11.31371 |         | 1 in 12  |
| 6902 | 51.34 | CO   | 48.72   | 300    |        | BR    | 25.6125  |         | 1 in 10  |
| 6203 | 53.35 | CO   | 50.87   | 225    |        | VC    | 4.472136 |         |          |
| 7001 | 52.02 | CO   | 44.38   | 500    |        | BR    | 19.41649 |         |          |
| 5401 | 30.55 | CO   | 24.7    | 1550   |        | BR    | 61.91123 |         | 1 in 35  |
| 7101 | 32.5  | CO   | 24.7    | 1550   |        | BR    | 55.4617  |         | 1 in 21  |
| 7201 | 50.66 | CO   | 46.9    | 525    |        | CO    | 26.62705 |         | 1 in 40  |
| 5201 | 39.28 | CO   | 28.45   | 1400   |        | CSB   | 12.72792 |         |          |
| 9503 | 44.61 | CO   | 43.24   | 150    |        | VC    | 6.708204 |         |          |
| 9503 | 44.61 | CO   | 43.24   | 150    |        | VC    | 6.708204 |         |          |
| 7302 | 46    | CO   | 43.23   | 375    |        | VC    | 6        |         |          |
| 8101 | 53    | CO   | 48.5    | 500    |        | BR    | 87.46428 |         | 1 in 22  |
| 5501 | 39.89 | CO   | 37.25   | 600    |        | VC    | 44.5921  |         |          |
| 5403 |       | CO   | 0       | 1550   |        | BR    | 30.61046 |         |          |
| 5403 |       | CO   | 0       | 1550   |        | BR    | 30.61046 |         |          |
| 4005 | 47.34 | CO   | 0       | 450    |        | BR    | 33.91515 |         |          |
| 4005 | 47.34 | CO   | 0       | 450    |        | BR    | 33.91515 |         |          |
| 7305 | 46.61 | CO   | 43.77   | 225    |        | VC    | 16.12402 |         | 1 in 10  |
| 7002 | 51.92 | CO   | 0       | 375    |        | BR    | 43.65776 |         |          |
| 5501 |       | CO   | 0       | 300    |        | BR    | 81.51928 |         |          |
| 5501 |       | CO   | 0       | 300    |        | BR    | 81.51928 |         |          |
| 5215 |       | CO   | 0       | 150    |        | VC    | 8.758789 |         |          |
| 6905 | 51.09 | CO   | 0       | 840    |        | CO    | 8.836652 |         |          |
| 8403 | 49.01 | CO   | 46.64   | 375    |        | CO    | 45.86028 |         | 1 in 27  |
| 9508 |       | CO   | 0       | 150    |        | VC    | 3.465536 |         |          |
| 5307 | 32.1  | CO   | 28.44   | 500    |        | BR    | 18.38478 |         |          |
| 5307 | 32.1  | CO   | 28.44   | 500    |        | BR    | 18.38478 |         |          |
| 5307 | 48.99 | CO   | 46.28   | 450    |        | BR    | 27.20294 |         |          |
| 5308 | 30.08 | CO   | 27.5    | 375    |        | VC    | 13.0384  |         |          |
| 5308 | 30.08 | CO   | 27.5    | 375    |        | VC    | 13.0384  |         |          |
| 5309 | 53.4  | CO   | 45.52   | 500    |        | BR    | 40.49868 |         |          |
| 6301 | 41.01 | CO   | 38.13   | 300    |        | VC    | 14.86607 |         | 1 in 26  |
| 7401 |       | CO   | 0       | 375    |        | CO    | 5.270639 |         |          |
| 6903 | 51.34 | CO   | 0       | 300    |        | CO    | 86.35392 |         |          |
| 9301 | 53.6  | CO   | 44.64   | 1070   |        | BR    | 87.20665 |         |          |
| 8102 | 52.4  | CO   | 48.28   | 500    |        | CO    | 45.43327 |         | 1 in 253 |
| 6101 | 45.7  | CO   | 44.7135 | 480    |        | BR    | 4.472136 |         |          |
| 8201 |       | CO   | 0       | 225    |        | BR    | 89.14034 |         |          |
| 8401 |       | CO   | 0       | 1070   |        | VC    | 154.1201 |         |          |
| 7301 | 46.08 | CO   | 43.43   | 375    |        | VC    | 32.80244 |         | 1 in 182 |
| 9508 |       | CO   | 0       | 150    |        | VC    | 18.71778 |         |          |
| 9514 |       | CO   | 0       | 150    |        | VC    | 22.10397 |         |          |
| 9514 |       | CO   | 0       | 150    |        | VC    | 22.10397 |         |          |
| 5303 | 33.27 | CO   | 28.83   | 580    |        | BR    | 21.26029 |         | 1 in 44  |
| 4904 | 46.62 | CO   | 0       | 939    |        | CO    | 3.865551 |         |          |
| 4904 | 46.62 | CO   | 0       | 939    |        | CO    | 3.865551 |         |          |
| 5301 | 36.74 | CO   | 32.93   | 550    |        | BR    | 19.78959 |         | 1 in 13  |
| 6401 | 31.29 | CO   | 24.77   | 1530   |        | BR    | 23.24711 |         |          |
| 6401 | 31.29 | CO   | 24.77   | 1530   |        | BR    | 23.24711 |         |          |
| 7306 | 45.48 | CO   | 42.07   | 300    |        | VC    | 28.42534 |         | 1 in 47  |
| 6004 | 50.54 | CO   | 48.03   | 450    |        | BR    | 25       |         |          |
| 4905 | 49.07 | CO   | 0       | 500    |        | BR    | 28.30447 |         |          |
| 4905 | 49.07 | CO   | 0       | 500    |        | BR    | 28.30447 |         |          |
| 6214 |       | CO   | 0       | 150    |        | VC    | 6.519556 |         |          |
| 5902 | 50.46 | CO   | 46.96   | 500    |        | VC    | 44.69791 |         | 1 in 73  |
| 7307 | 43.35 | CO   | 41.46   | 300    |        | VC    | 25.6125  |         | 1 in 12  |
| 9201 | 53.13 | CO   | 47.48   | 300    |        | VC    | 36.59338 |         | 1 in 82  |
| 7202 | 48.7  | CO   | 43.3    | 300    |        | CO    | 28.84441 |         | 1 in 48  |
| 9302 |       | CO   | 0       | 2302   |        | BR    | 592.1557 |         |          |
| 5001 | 48.51 | CO   | 45.07   | 500    |        | BR    | 37.91351 |         |          |
| 5001 | 48.51 | CO   | 45.07   | 500    |        | BR    | 37.91351 |         |          |
| 9513 |       | CO   | 0       | 150    |        | VC    | 9.752625 |         |          |
| 9513 |       | CO   | 0       | 150    |        | VC    | 9.752625 |         |          |
| 6901 | 51.35 | CO   | 46.31   | 500    |        | BR    | 25       |         |          |
| 7304 | 45.38 | CO   | 42.78   | 600    |        | VC    | 67.95222 |         | 1 in 12  |
| 9202 | 53    | CO   | 49.62   | 300    |        | CO    | 125.3412 |         | 1 in 167 |
| 9217 |       | CO   | 0       | 150    |        | VC    | 11.55663 |         |          |
| 5308 | 30.08 | CO   | 27.3    | 300    |        | VC    | 36.23534 |         |          |
| 5308 | 30.08 | CO   | 27.3    | 300    |        | VC    | 36.23534 |         |          |
| 8402 | 50.89 | CO   | 47.93   | 300    |        | CO    | 52.61179 |         |          |
| 0200 | 50.43 | CO   | 46.50   | 300    |        | BR    | 17.14001 |         |          |
| 5106 | 49    | CO   | 46.25   | 480    |        | BR    | 48.91041 |         | 1 in 83  |
| 5111 |       | CO   | 0       | 150    |        | VC    | 2.231556 |         |          |
| 5111 |       | CO   | 0       | 150    |        | VC    | 2.231556 |         |          |
| 6001 | 51.68 | CO   | 42.44   | 480    |        | BR    | 120.1335 |         | 1 in 32  |
| 7901 | 51.21 | CO   | 44.19   | 525    |        | VC    | 36.18602 |         |          |
| 6003 | 51.36 | CO   | 48.22   | 550    |        | BR    | 55.80233 |         | 1 in 21  |
| 5104 | 44.8  | CO   | 42.51   | 300    |        | VC    | 96.22998 |         |          |
| 9519 |       | CO   | 0       | 150    |        | VC    | 15.5569  |         |          |
| 9519 |       | CO   | 0       | 150    |        | VC    | 15.5569  |         |          |
| 6501 | 48.85 | CO   | 0       | 450    |        | VC    | 27.29469 |         |          |
| 9501 | 42.64 | CO   | 38.9    | 300    |        | CO    | 10.81665 |         | 1 in 7   |
| 9501 | 42.64 | CO   | 38.9    | 300    |        | CO    | 10.81665 |         | 1 in 7   |
| 8522 |       | CO   | 0       | 150    |        | VC    | 4.785507 |         |          |
| 8522 |       | CO   | 0       | 150    |        | VC    | 4.785507 |         |          |
| 4301 | 31.14 | CO   | 28.64   | 600    |        | CO    | 30.55667 |         |          |
| 4301 | 31.14 | CO   | 28.64   | 600    |        | CO    | 30.55667 |         |          |
| 5203 | 36.71 | CO   | 31.7    | 550    |        | BR    | 77.10383 |         | 1 in 15  |
| 9521 |       | CO   | 0       | 150    |        | VC    | 42.2491  |         |          |
| 9521 |       | CO   | 0       | 150    |        | VC    | 42.2491  |         |          |
| 8504 | 41.79 | CO   | 37.42   | 480    |        | BR    | 111.4201 |         | 1 in 13  |
| 8504 | 41.79 | CO   | 37.42   | 480    |        | BR    | 111.4201 |         | 1 in 13  |
| 9520 |       | CO   | 0       | 150    |        | VC    | 9.927451 |         |          |
| 9520 |       | CO   | 0       | 150    |        | VC    | 9.927451 |         |          |
| 0204 | 53.35 | CO   | 51.43   | 225    |        | VC    | 34.82815 |         | 1 in 76  |
| 5116 | 42.35 | CO   | 40.25   | 550    |        | BR    | 19.89717 |         |          |
| 4302 | 30.81 | CO   | 28.25   | 300    |        | VC    | 4.472136 |         |          |
| 4302 | 30.81 | CO   | 28.25   | 300    |        | VC    | 4.472136 |         |          |
| 4312 | 31.02 | SW   | 26.46   | 600    |        | BR    | 31.14462 |         |          |
| 4312 | 31.02 | SW   | 26.46   | 600    |        | BR    | 31.14462 |         |          |
| 5202 | 36.62 | CO   | 27.75   | 600    |        | CO    | 78.74643 |         | 1 in 72  |
| 5101 | 42.45 | CO   | 40.75   | 225    |        | VC    | 8.314363 |         | 1 in 130 |
| 5101 | 42.45 | CO   | 40.75   | 225    |        | VC    | 8.314363 |         | 1 in 130 |
| 7501 | 31.57 | CO   | 29.36   | 375    |        | VC    | 15.26434 |         |          |
| 7501 | 31.57 | CO   | 29.36   | 375    |        | VC    | 15.26434 |         |          |
| 0204 |       | CO   | 0       | 150    |        | VC    | 4.226566 |         |          |
| 7503 | 30.16 | CO   | 25      | 1550   |        | BR    | 99.20091 |         | 1 in 473 |
| 7503 | 30.16 | CO   | 25      | 1550   |        | BR    | 99.20091 |         | 1 in 473 |
| 5008 | 51.32 | CO   | 48.13   | 300    |        | BR    | 28.91785 |         |          |
| 5102 | 43.81 | CO   | 40.27   | 550    |        | BR    | 5.986149 |         |          |
| 5105 | 45.55 | CO   | 39.3    | 375    |        | VC    | 48.60041 |         |          |
| 6407 | 32    | CO   | 28.2    | 375    |        | CO    | 33.12099 |         |          |
| 0223 |       | CO   | 0       | 150    |        | VC    | 20.76079 |         |          |
| 4109 | 42.86 | CO   | 41.14   | 225    |        | VC    | 50.51596 |         | 1 in 130 |
| 4109 | 42.86 | CO   | 41.14   | 225    |        | VC    | 50.51596 |         | 1 in 130 |
| 9503 | 45.07 | CO   | 38.15   | 225    |        | VC    | 114.0305 |         |          |

| Reho | Cover | Func | Invert  | Size x | Size y | Shape | Matl     | Length  | Grad     |
|------|-------|------|---------|--------|--------|-------|----------|---------|----------|
| 7303 | 46.04 | CO   | 42.85   | 1070   | 150    | VC    | 14.4214  | 21.8863 | 1 in 236 |
| 5306 | 34.57 | CO   | 30.4    | 600    |        | CO    | 11.31371 |         | 1 in 12  |
| 6902 | 51.34 | CO   | 48.72   | 300    |        | BR    | 25.6125  |         | 1 in 10  |
| 6203 | 53.35 | CO   | 50.87   | 225    |        | VC    | 4.472136 |         |          |
| 7001 | 52.02 | CO   | 44.38   | 500    |        | BR    | 19.41649 |         |          |
| 5401 | 30.55 | CO   | 24.7    | 1550   |        | BR    | 61.91123 |         | 1 in 35  |
| 7101 | 32.5  | CO   | 24.7    | 1550   |        | BR    | 55.4617  |         | 1 in 21  |
| 7201 | 50.66 | CO   | 46.9    | 525    |        | CO    | 26.62705 |         | 1 in 40  |
| 5201 | 39.28 | CO   | 28.45   | 1400   |        | CSB   | 12.72792 |         |          |
| 9503 | 44.61 | CO   | 43.24   | 150    |        | VC    | 6.708204 |         |          |
| 9503 | 44.61 | CO   | 43.24   | 150    |        | VC    | 6.708204 |         |          |
| 7302 | 46    | CO   | 43.23   | 375    |        | VC    | 6        |         |          |
| 8101 | 53    | CO   | 48.5    | 500    |        | BR    | 87.46428 |         | 1 in 22  |
| 5501 | 39.89 | CO   | 37.25   | 600    |        | VC    | 44.5921  |         |          |
| 5403 |       | CO   | 0       | 1550   |        | BR    | 30.61046 |         |          |
| 5403 |       | CO   | 0       | 1550   |        | BR    | 30.61046 |         |          |
| 4005 | 47.34 | CO   | 0       | 450    |        | BR    | 33.91515 |         |          |
| 4005 | 47.34 | CO   | 0       | 450    |        | BR    | 33.91515 |         |          |
| 7305 | 46.61 | CO   | 43.77   | 225    |        | VC    | 16.12402 |         | 1 in 10  |
| 7002 | 51.92 | CO   | 0       | 375    |        | BR    | 43.65776 |         |          |
| 5501 |       | CO   | 0       | 300    |        | BR    | 81.51928 |         |          |
| 5501 |       | CO   | 0       | 300    |        | BR    | 81.51928 |         |          |
| 5215 |       | CO   | 0       | 150    |        | VC    | 8.758789 |         |          |
| 6905 | 51.09 | CO   | 0       | 840    |        | CO    | 8.836652 |         |          |
| 8403 | 49.01 | CO   | 46.64   | 375    |        | CO    | 45.86028 |         | 1 in 27  |
| 9508 |       | CO   | 0       | 150    |        | VC    | 3.465536 |         |          |
| 5307 | 32.1  | CO   | 28.44   | 500    |        | BR    | 18.38478 |         |          |
| 5307 | 32.1  | CO   | 28.44   | 500    |        | BR    | 18.38478 |         |          |
| 5307 | 48.99 | CO   | 46.28   | 450    |        | BR    | 27.20294 |         |          |
| 5308 | 30.08 | CO   | 27.5    | 375    |        | VC    | 13.0384  |         |          |
| 5308 | 30.08 | CO   | 27.5    | 375    |        | VC    | 13.0384  |         |          |
| 5309 | 53.4  | CO   | 45.52   | 500    |        | BR    | 40.49868 |         |          |
| 6301 | 41.01 | CO   | 38.13   | 300    |        | VC    | 14.86607 |         | 1 in 26  |
| 7401 |       | CO   | 0       | 375    |        | CO    | 5.270639 |         |          |
| 6903 | 51.34 | CO   | 0       | 300    |        | CO    | 86.35392 |         |          |
| 9301 | 53.6  | CO   | 44.64   | 1070   |        | BR    | 87.20665 |         |          |
| 8102 | 52.4  | CO   | 48.28   | 500    |        | CO    | 45.43327 |         | 1 in 253 |
| 6101 | 45.7  | CO   | 44.7135 | 480    |        | BR    | 4.472136 |         |          |
| 8201 |       | CO   | 0       | 225    |        | BR    | 89.14034 |         |          |
| 8401 |       | CO   | 0       | 1070   |        | VC    |          |         |          |



| Reho | Cover | Func | Invert | Size x | Size y | Shape | Matl | Length   | Grad       |
|------|-------|------|--------|--------|--------|-------|------|----------|------------|
| 3302 | 46.91 | CO   | 40.08  | 375    |        |       | VC   | 151.1497 | 1 in 12    |
| 3502 | 46.91 | CO   | 40.08  | 375    |        |       | VC   | 32.01562 | 1 in 12    |
| 0216 | 46.91 | CO   | 40.08  | 375    |        |       | VC   | 41.81008 | 1 in 12    |
| 1404 | 46.61 | CO   | 40.72  | 600    |        |       | CO   | 85.44004 | 1 in 38    |
| 1404 | 46.61 | CO   | 40.72  | 600    |        |       | VC   | 58.27491 | 1 in 38    |
| 2502 | 46.78 | CO   | 38.82  | 600    |        |       | VC   | 58.27491 | 1 in 38    |
| 2502 | 46.78 | CO   | 38.82  | 600    |        |       | VC   | 58.27491 | 1 in 38    |
| 0217 | 28.05 | SW   | 38.35  | 150    |        |       | VC   | 34.24373 | 1 in 96    |
| 0204 | 42.02 | CO   | 31.48  | 1520   |        |       | CSB  | 37.69516 | 1 in 82    |
| 2909 | 36.36 | CO   | 32.69  | 300    |        |       | VC   | 42.51323 | 1 in 82    |
| 2301 | 29.5  | CO   | 27.03  | 450    |        |       | VC   | 78.89603 | 1 in 80    |
| 4005 | 47.34 | CO   | 0      | 450    |        |       | BR   | 33.01515 | 1 in 108   |
| 4005 | 47.34 | CO   | 0      | 450    |        |       | BR   | 33.01515 | 1 in 108   |
| 1914 | 36.68 | CO   | 0      | 600    |        |       | VC   | 41.14608 | 1 in 108   |
| 2904 | 29.44 | CO   | 29.3   | 675    |        |       | BR   | 74.6253  | 1 in 133   |
| 2007 | 39.72 | CO   | 0      | 300    |        |       | VC   | 54.17366 | 1 in 7     |
| 3601 | 48.72 | CO   | 43.09  | 400    |        |       | VC   | 48.57253 | 1 in 7     |
| 6007 | 49.99 | CO   | 46.29  | 450    |        |       | BR   | 27.20294 | 1 in 59    |
| 4012 | 44.24 | CO   | 41.19  | 450    |        |       | BR   | 24.83949 | 1 in 59    |
| 4904 | 49.62 | CO   | 0      | 519    |        |       | CO   | 3.695551 | 1 in 133   |
| 4904 | 49.62 | CO   | 0      | 939    |        |       | CO   | 3.695551 | 1 in 133   |
| 2202 | 29.44 | CO   | 24.96  | 900    |        |       | CI   | 8        | 1 in 133   |
| 1403 | 41.81 | CO   | 34.61  | 900    |        |       | BR   | 17.88854 | 1 in 7     |
| 1403 | 41.81 | CO   | 34.61  | 900    |        |       | VC   | 17.88854 | 1 in 7     |
| 2603 | 49.95 | CO   | 40.15  | 600    |        |       | VC   | 156.9424 | 1 in 80    |
| 2905 | 38.84 | CO   | 35.73  | 300    |        |       | VC   | 48.60041 | 1 in 108   |
| 5001 | 46.51 | CO   | 45.07  | 500    |        |       | BR   | 37.01351 | 1 in 108   |
| 5001 | 46.51 | CO   | 45.07  | 500    |        |       | BR   | 37.01351 | 1 in 108   |
| 3001 | 38.79 | CO   | 34.48  | 400    |        |       | VC   | 26.55669 | 1 in 108   |
| 4201 | 30    | CO   | 0      | 1500   |        |       | BR   | 23.43909 | 1 in 41    |
| 3102 | 33.5  | CO   | 24.01  | 1500   |        |       | VC   | 73.26477 | 1 in 41    |
| 1405 | 44.79 | CO   | 38.43  | 600    |        |       | CO   | 86.97701 | 1 in 41    |
| 5308 | 30.08 | CO   | 27.3   | 300    |        |       | VC   | 36.23534 | 1 in 58    |
| 5308 | 30.08 | CO   | 27.3   | 300    |        |       | VC   | 36.23534 | 1 in 58    |
| 0501 | 43.96 | CO   | 34.98  | 950    |        |       | BR   | 98.03061 | 1 in 64    |
| 0501 | 43.96 | CO   | 34.98  | 950    |        |       | BR   | 98.03061 | 1 in 64    |
| 2305 | 30.55 | CO   | 26.25  | 525    |        |       | VC   | 24.0649  | 1 in 108   |
| 5401 | 30.55 | CO   | 24.7   | 1500   |        |       | BR   | 61.91123 | 1 in 108   |
| 0301 | 43.15 | CO   | 36.3   | 600    |        |       | CO   | 31.95309 | 1 in 52    |
| 2604 | 46.74 | CO   | 44.8   | 400    |        |       | VC   | 91.19653 | 1 in 52    |
| 5403 | 30    | CO   | 0      | 1500   |        |       | BR   | 30.01046 | 1 in 52    |
| 1012 | 40.29 | OV   | 35.74  | 100    |        |       | VC   | 4.564737 | 1 in 52    |
| 2404 | 40.29 | OV   | 35.74  | 100    |        |       | VC   | 32.30248 | 1 in 52    |
| 9506 | 43.61 | CO   | 34.34  | 370    |        |       | BR   | 34.78055 | 1 in 52    |
| 9506 | 43.61 | CO   | 34.34  | 370    |        |       | VC   | 34.78055 | 1 in 52    |
| 2201 | 29.83 | CO   | 23.93  | 900    |        |       | BR   | 52.12749 | 1 in 52    |
| 5307 | 32.1  | CO   | 28.44  | 500    |        |       | BR   | 18.36478 | 1 in 52    |
| 1301 | 37.46 | CO   | 35.42  | 1700   |        |       | BR   | 18.36478 | 1 in 52    |
| 1202 | 27.71 | CO   | 26.01  | 375    |        |       | VC   | 53.15073 | 1 in 52    |
| 2907 | 33.5  | SW   | 35.06  | 300    |        |       | VC   | 10.50115 | 1 in 52    |
| 5308 | 30.08 | CO   | 27.5   | 375    |        |       | VC   | 13.0364  | 1 in 52    |
| 0402 | 45.65 | CO   | 34.82  | 920    |        |       | BR   | 96.56604 | 1 in 508   |
| 0402 | 45.65 | CO   | 34.82  | 920    |        |       | BR   | 96.56604 | 1 in 508   |
| 3401 | 39.9  | CO   | 35.1   | 400    |        |       | VC   | 34.20526 | 1 in 17    |
| 3401 | 39.9  | CO   | 35.1   | 400    |        |       | VC   | 34.20526 | 1 in 17    |
| 1909 | 36.26 | CO   | 28.1   | 600    |        |       | VC   | 55.15433 | 1 in 17    |
| 4401 | 30.08 | CO   | 27.68  | 525    |        |       | BR   | 41.26352 | 1 in 77    |
| 2302 | 31.07 | CO   | 27.68  | 300    |        |       | BR   | 26.40076 | 1 in 77    |
| 2401 | 34.2  | CO   | 30.24  | 300    |        |       | BR   | 46.31999 | 1 in 50    |
| 2504 | 46.78 | CO   | 40.97  | 380    |        |       | VC   | 39.45884 | 1 in 50    |
| 2504 | 46.78 | CO   | 40.97  | 380    |        |       | VC   | 39.45884 | 1 in 50    |
| 1502 | 46.23 | CO   | 42.76  | 600    |        |       | CO   | 93.60555 | 1 in 46    |
| 4905 | 49.07 | CO   | 0      | 500    |        |       | BR   | 28.30447 | 1 in 46    |
| 4905 | 49.07 | CO   | 0      | 500    |        |       | BR   | 28.30447 | 1 in 46    |
| 4011 | 44.27 | CO   | 40.77  | 450    |        |       | BR   | 16.64332 | 1 in 46    |
| 2307 | 37.82 | SW   | 31.88  | 100    |        |       | VC   | 19.19727 | 1 in 172   |
| 2012 | 37.82 | CO   | 31.88  | 450    |        |       | BR   | 15.62448 | 1 in 172   |
| 4305 | 29.97 | CO   | 26.56  | 525    |        |       | VC   | 49.70947 | 1 in 172   |
| 3202 | 32.33 | CO   | 27.68  | 300    |        |       | VC   | 18.44008 | 1 in 61    |
| 3201 | 32.52 | CO   | 28.02  | 300    |        |       | VC   | 20.88061 | 1 in 61    |
| 9401 | 44.58 | CO   | 39.72  | 320    |        |       | VC   | 20.88061 | 1 in 61    |
| 5111 | 44.58 | CO   | 39.72  | 150    |        |       | VC   | 2.231356 | 1 in 61    |
| 0205 | 39.8  | SW   | 29.88  | 450    |        |       | VC   | 2.231356 | 1 in 61    |
| 2903 | 39.8  | CO   | 29.88  | 450    |        |       | VC   | 20.68651 | 1 in 15    |
| 3501 | 45.71 | SW   | 41.52  | 300    |        |       | VC   | 10.16854 | 1 in 15    |
| 3501 | 45.71 | SW   | 41.52  | 300    |        |       | VC   | 10.16854 | 1 in 15    |
| 2111 | 36.71 | CO   | 31.7   | 150    |        |       | BR   | 3.695551 | 1 in 15    |
| 3101 | 37.07 | CO   | 0      | 1600   |        |       | BR   | 77.10383 | 1 in 87    |
| 0207 | 41    | CO   | 27.8   | 1520   |        |       | VC   | 10.49285 | 1 in 87    |
| 5116 | 42.35 | CO   | 40.25  | 550    |        |       | CSB  | 85.0509  | 1 in 87    |
| 4312 | 31.02 | SW   | 26.48  | 600    |        |       | BR   | 45.89403 | 1 in 72    |
| 4312 | 31.02 | SW   | 26.48  | 600    |        |       | BR   | 19.69717 | 1 in 72    |
| 5202 | 36.62 | CO   | 27.75  | 600    |        |       | BR   | 31.14482 | 1 in 72    |
| 2406 | 40.78 | SW   | 38.4   | 150    |        |       | VC   | 78.14643 | 1 in 6     |
| 0101 | 40.24 | SW   | 36.65  | 225    |        |       | VC   | 2        | 1 in 6     |
| 3603 | 41.62 | CO   | 31.23  | 675    |        |       | BR   | 45.05404 | 1 in 6     |
| 2501 | 46.7  | CO   | 40.17  | 380    |        |       | VC   | 116.9921 | 1 in 22    |
| 2104 | 31.73 | CO   | 0      | 900    |        |       | VC   | 13.61477 | 1 in 22    |
| 1001 | 37.68 | SW   | 36.06  | 225    |        |       | VC   | 13.61477 | 1 in 22    |
| 3205 | 33.33 | SW   | 31.2   | 225    |        |       | BR   | 35.46851 | 1 in 139   |
| 5104 | 44.8  | CO   | 42.51  | 300    |        |       | VC   | 30.41391 | 1 in 139   |
| 4304 | 29.73 | CO   | 24.22  | 1500   |        |       | BR   | 35.11536 | 1 in 139   |
| 2101 | 33.56 | CO   | 23.56  | 1600   |        |       | VC   | 126.2265 | 1 in 139   |
| 4301 | 31.14 | CO   | 26.64  | 600    |        |       | BR   | 98.28889 | 1 in 139   |
| 4301 | 31.14 | CO   | 26.64  | 600    |        |       | BR   | 97.91391 | 1 in 139   |
| 4302 | 30.81 | CO   | 28.25  | 300    |        |       | BR   | 73.78349 | 1 in 139   |
| 4302 | 30.81 | CO   | 28.25  | 300    |        |       | CO   | 30.55597 | 1 in 139   |
| 4302 | 30.81 | CO   | 28.25  | 300    |        |       | VC   | 30.55597 | 1 in 139   |
| 5101 | 42.45 | CO   | 40.75  | 225    |        |       | VC   | 4.472136 | 1 in 139   |
| 5101 | 42.45 | CO   | 40.75  | 225    |        |       | VC   | 8.314363 | 1 in 139   |
| 3101 | 37.07 | CO   | 0      | 450    |        |       | BR   | 187.392  | 62.4539502 |
| 3209 | 33.33 | SW   | 31.2   | 225    |        |       | BR   | 32.73634 | 1 in 40    |
| 0902 | 40.49 | CO   | 32.12  | 900    |        |       | BR   | 2.236068 | 1 in 40    |
| 2405 | 40.49 | CO   | 32.12  | 900    |        |       | BR   | 69.49815 | 1 in 40    |
| 4109 | 42.86 | CO   | 41.14  | 225    |        |       | BR   | 50.51596 | 1 in 130   |
| 4109 | 42.86 | CO   | 41.14  | 225    |        |       | VC   | 50.51596 | 1 in 130   |

### LEGEND

Abandoned

Foul

Surface Water

Combined

Public Sewer

Private Sewer

Section 104

Rising Main

Sludge Main

Overflow

Water Course

Highway Drain

All point assets follow the standard colour convention:

red - combined

blue - surface water

brown - foul

purple - overflow

Manhole

Head of System

Extent of Survey

Rodding Eye

Inlet

Vortex

Discharge Point

Penstock

Washout Chamber

Valve

Air Valve

Non Return Valve

Soakaway

Gully

Cascade

Flow Meter

Hatch Box

Oil Interceptor

Summit

Drop Shaft

Orifice Plate

Side Entry Manhole

Outfall

Screen Chamber

Inspection Chamber

Bifurcation Chamber

Lamp Hole

T Junction / Saddle

Catchpit

Valve Chamber

Vent Column

Sewer Chamber

Penstock Chamber

Network Storage Tank

Sewer Overflow

Ww Treatment Works

Ww Pumping Station

Septic Tank

Control Kiosk

Change of Characteristic

#### MANHOLE FUNCTION

FO Foul

SW Surface Water

CO Combined

OV Overflow

#### SEWER SHAPE

CI Circular

TR Trapezoidal

EG Egg

AR Arch

OV Oval

BA Barrel

FT Flat Top

HO Horse Shoe

RE Rectangular

UN Unspecified

SQ Square

#### SEWER MATERIAL

AC Asbestos Cement

BR Brick

PE Polyethylene

RP Reinforced Plastic Matrix

CO Concrete

CSB Concrete Segment Bolted

CSU Concrete Segment Unbolted

CC Concrete Box Culvert

PSC Plastic / Steel Composite

GRC Glass Reinforced Plastic

DI Ductile Iron

PVC Polyvinyl Chloride

CI Cast Iron

SI Spun Iron

ST Steel

VC Vitrified Clay

PP Polypropylene

PF Pitch Fibre

MAC Masonry, Coursed

MAR Masonry, Random

U Unspecified

Address or Site Reference:

97079 - A1,

OS sheet SJ8499SW  
Number:  
Scale: 1:1250 Date: 01/07/2021  
Nodes: 119  
Sheet: 2 of 4

Printed by: Property Searches

SEWER RECORDS

Water for the North West

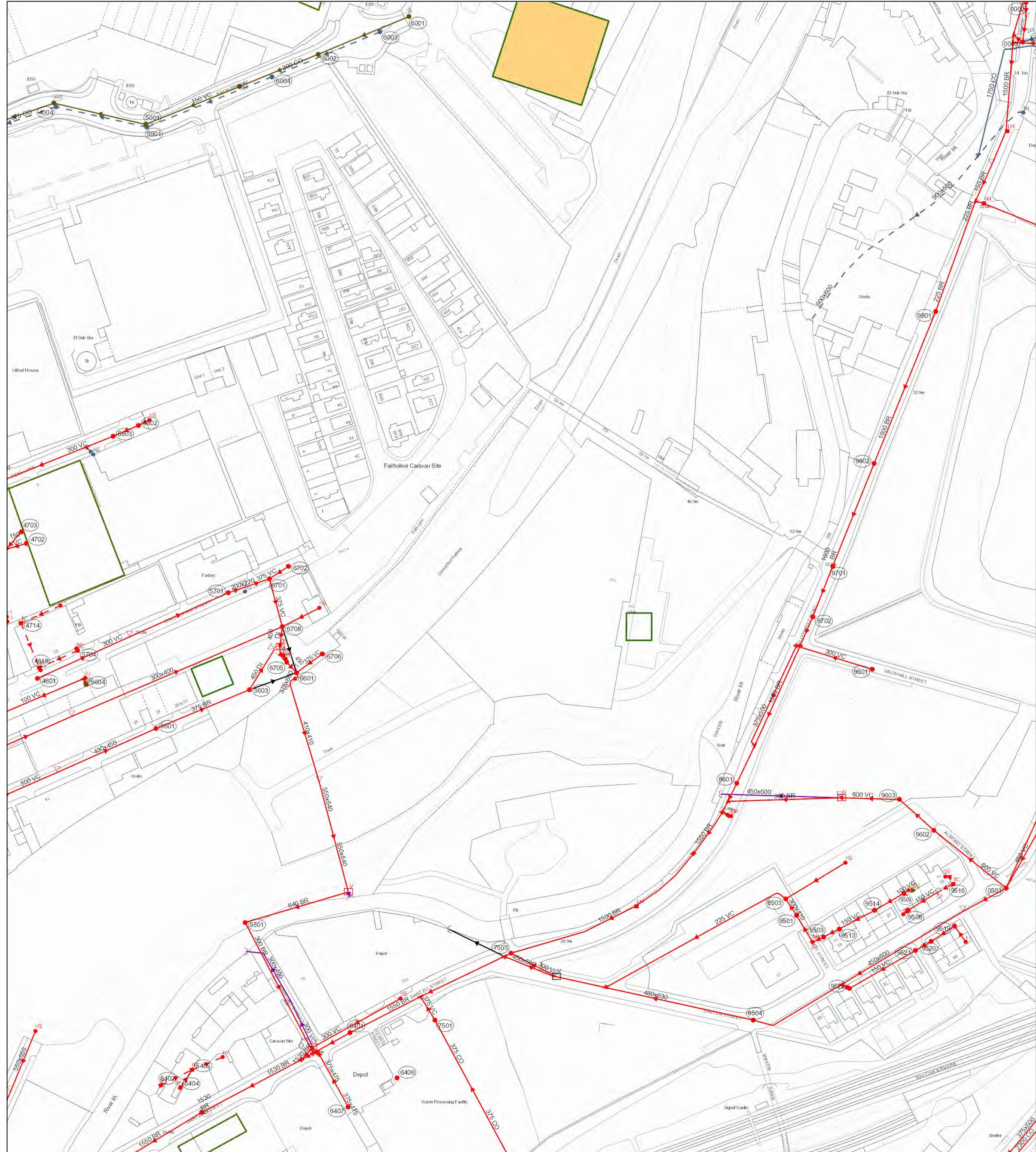
The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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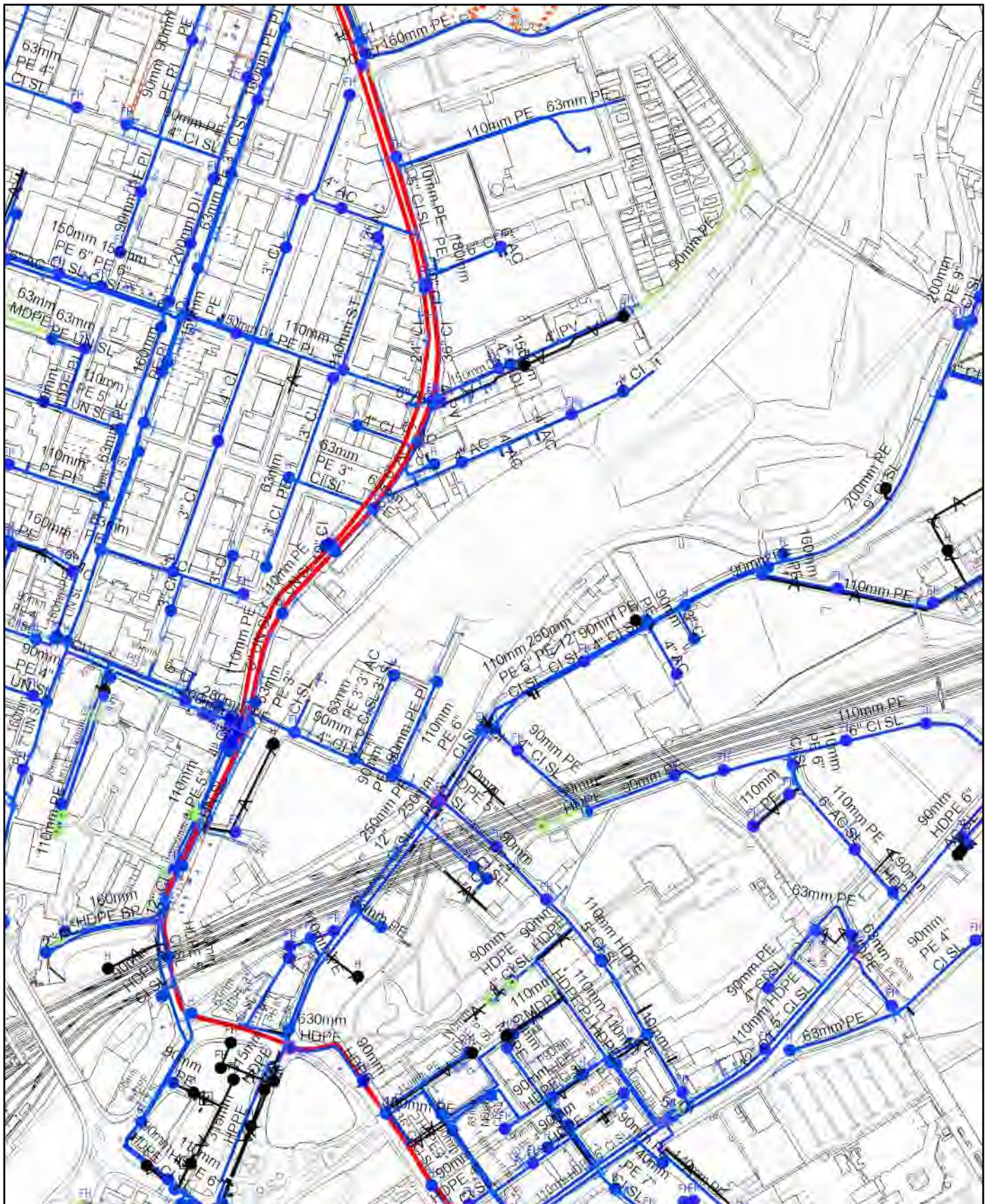
| Reho | Cover | Func | Invert   | Size x | Size y | Shape | Matl     | Length    | Grad |
|------|-------|------|----------|--------|--------|-------|----------|-----------|------|
| 0801 | 49.87 | CO   | 3.162278 | 300    |        | VC    | 3.162278 | 1 in 12   |      |
| 0804 | 50.9  | CO   | 47.4     | 375    |        | VC    | 16.76305 | 1 in 12   |      |
| 3502 | 46.91 | CO   | 40.08    | 375    |        | VC    | 32.01562 | 1 in 12   |      |
| 3502 | 46.91 | CO   | 40.08    | 375    |        | VC    | 32.01562 | 1 in 12   |      |
| 5901 | 54.83 | SW   | 53.11    | 300    |        | CO    | 51.53056 | 1 in 176  |      |
| 1404 | 46.61 | CO   | 40.72    | 600    |        | CO    | 85.44004 | 1 in 38   |      |
| 1404 | 46.61 | CO   | 40.72    | 600    |        | CO    | 85.44004 | 1 in 38   |      |
| 4004 | 54.75 | SW   | 52.82    | 375    |        | CO    | 55.23741 | 1 in 251  |      |
| 4004 | 54.75 | SW   | 52.82    | 375    |        | CO    | 55.23741 | 1 in 251  |      |
| 2502 | 46.78 | CO   | 38.82    | 600    |        | VC    | 58.27491 | 1 in 52   |      |
| 2502 | 46.78 | CO   | 38.82    | 600    |        | VC    | 58.27491 | 1 in 52   |      |
| 9902 | 50.69 | CO   | 47.52    | 375    |        | VC    | 70.83784 | 1 in 112  |      |
| 0912 |       | CO   |          | 150    |        | VC    | 8.040379 |           |      |
| 4712 |       | CO   |          | 150    |        | VC    | 10.31194 |           |      |
| 2904 | 53.1  | CO   | 45.29    | 600    |        | VC    | 69.89278 | 1 in 74   |      |
| 3601 | 48.72 | CO   | 43.09    | 400    |        | VC    | 46.57253 | 1 in 43   |      |
| 2903 | 53.08 | CO   | 48.07    | 375    |        | VC    | 58.87275 | 1 in 1472 |      |
| 4603 | 49.33 | CO   | 44.46    | 300    |        | VC    | 60.00833 | 1 in 46   |      |
| 1702 | 51.25 | CO   | 47.86    | 300    |        | VC    | 70.87299 | 1 in 41   |      |
| 4904 | 54.65 | FO   | 52.42    | 150    |        | VC    | 44.18269 | 1 in 138  |      |
| 1604 | 49.63 | CO   | 44.33    | 600    |        | VC    | 61.27115 | 1 in 52   |      |
| 4604 |       | SW   |          | 150    |        | VC    | 4.526542 |           |      |
| 0701 | 45.98 | CO   | 44.49    | 375    |        | VC    | 3.162278 | 1 in 12   |      |
| 3705 | 48.11 | CO   | 43.86    | 360    |        | VC    | 53.14132 | 1 in 136  |      |
| 0807 | 49.39 | SW   | 0        | 300    |        | VC    | 2.23068  |           |      |
| 0704 | 48.1  | CO   | 44.33    | 300    |        | VC    | 117.0403 | 1 in 43   |      |
| 1403 | 41.81 | CO   | 34.61    | 600    |        | BR    | 17.88854 | 1 in 7    |      |
| 1403 | 41.81 | CO   | 34.61    | 600    |        | BR    | 17.88854 | 1 in 7    |      |
| 2603 | 48.85 | CO   | 40.19    | 600    |        | VC    | 106.0424 | 1 in 80   |      |
| 1606 | 47.98 | CO   | 44.28    | 300    |        | VC    | 4.123108 |           |      |
| 3602 | 48.81 | CO   | 43.11    | 450    |        | VC    | 4.24264  |           |      |
| 3703 | 51.1  | CO   | 46.79    | 290    |        | VC    | 56.321   | 1 in 237  |      |
| 0902 | 50.88 | CO   | 48.05    | 225    |        | VC    | 33.52611 |           |      |
| 4602 | 51.28 | CO   | 45.95    | 400    |        | VC    | 5.385165 |           |      |
| 4801 | 52.89 | CO   | 48.49    | 450    |        | VC    | 67.4757  | 1 in 30   |      |
| 0703 | 48.57 | SW   | 0        | 450    |        | VC    | 7.28011  |           |      |
| 1509 |       | CO   |          | 225    |        | VC    | 15.28911 |           |      |
| 2602 | 49.35 | CO   | 44.79    | 300    |        | VC    | 28.24881 |           |      |
| 0501 | 43.96 | CO   | 34.98    | 950    |        | BR    | 98.03061 | 1 in 654  |      |
| 0501 | 43.96 | CO   | 34.98    | 950    |        | BR    | 98.03061 | 1 in 654  |      |
| 3603 |       | CO   |          | 225    |        | VC    | 9.917004 |           |      |
| 4602 | 54.7  | FO   | 52.1     | 150    |        | VC    | 3.808946 | 1 in 16   |      |
| 2701 | 51    | CO   | 42.48    | 600    |        | VC    | 70.83784 | 1 in 76   |      |
| 3607 |       | CO   |          | 150    |        | VC    | 4.265729 |           |      |
| 2604 | 48.74 | CO   | 44.8     | 400    |        | VC    | 91.41963 | 1 in 52   |      |
| 4601 | 51.1  | CO   | 46.79    | 300    |        | VC    | 55.9464  | 1 in 108  |      |
| 4601 | 51.1  | CO   | 46.79    | 300    |        | VC    | 55.9464  | 1 in 108  |      |
| 2702 | 50.46 | CO   | 44.77    | 400    |        | VC    | 6.082763 |           |      |
| 5001 | 55.83 | FO   | 53.12    | 150    |        | VC    | 51.95477 | 1 in 124  |      |
| 2800 | 52.08 | CO   | 46.73    | 600    |        | VC    | 70.83784 | 1 in 76   |      |
| 2803 |       | CO   |          | 150    |        | VC    | 9.219728 | 1 in      |      |
| 0007 | 50.87 | CO   | 48.09    | 450    |        | VC    | 58.18935 | 1 in 216  |      |
| 1508 |       | CO   |          | 150    |        | VC    | 24.68759 |           |      |
| 4703 |       | CO   |          | 150    |        | VC    | 19.25797 |           |      |
| 4703 |       | CO   |          | 150    |        | VC    | 19.25797 |           |      |
| 2404 | 40.29 | CO   | 35.74    | 100    |        | VC    | 32.20749 |           |      |
| 2404 | 40.29 | CO   | 35.74    | 100    |        | VC    | 32.20749 |           |      |
| 9506 | 43.81 | CO   | 38.34    | 370    |        | VC    | 34.78555 |           |      |
| 9506 | 43.81 | CO   | 38.34    | 370    |        | VC    | 34.78555 |           |      |
| 9603 | 45.74 | CO   | 35.21    | 950    |        | BR    | 48.46645 |           |      |
| 0812 |       | CO   |          | 150    |        | VC    | 3.605551 |           |      |
| 9005 | 55.82 | CO   | 48.15    | 450    |        | VC    | 6.082763 | 1 in 152  |      |
| 4003 | 54.75 | FO   | 52.7     | 150    |        | VC    | 47.23729 | 1 in 169  |      |
| 4003 | 54.75 | FO   | 52.7     | 150    |        | VC    | 47.23729 | 1 in 169  |      |
| 1802 | 52.22 | CO   | 44.32    | 600    |        | VC    | 68.94926 | 1 in 82   |      |
| 0901 | 51.68 | CO   | 48.23    | 375    |        | VC    | 80.63358 | 1 in 117  |      |
| 2305 | 53.43 | CO   | 48.89    | 600    |        | VC    | 77.16217 | 1 in 90   |      |
| 0402 | 45.65 | CO   | 34.82    | 920    |        | BR    | 95.59604 | 1 in 508  |      |
| 0402 | 45.65 | CO   | 34.82    | 920    |        | BR    | 95.59604 | 1 in 508  |      |
| 1703 | 51.14 | CO   | 43.46    | 600    |        | VC    | 66.40783 | 1 in 69   |      |
| 3401 | 39.9  | CO   | 35.1     | 400    |        | VC    | 34.20326 | 1 in 17   |      |
| 3401 | 39.9  | CO   | 35.1     | 400    |        | VC    | 34.20326 | 1 in 17   |      |
| 2504 | 46.78 | CO   | 40.97    | 380    |        | VC    | 39.45884 | 1 in 50   |      |
| 2504 | 46.78 | CO   | 40.97    | 380    |        | VC    | 39.45884 | 1 in 50   |      |
| 1502 | 48.23 | CO   | 42.78    | 600    |        | VC    | 93.60555 | 1 in 46   |      |
| 0901 | 49.61 | CO   | 44.44    | 300    |        | VC    | 16.76305 | 1 in 82   |      |
| 2901 | 53.14 | CO   | 46.4     | 600    |        | VC    | 89.81091 | 1 in 82   |      |
| 0901 | 48.3  | CO   | 41.83    | 300    |        | VC    | 50.91193 | 1 in 56   |      |
| 3801 | 53.27 | CO   | 47.9     | 340    |        | BR    | 83.57033 | 1 in 53   |      |
| 4605 | 54.65 | SW   | 52.6     | 375    |        | CO    | 39.92177 | 1 in 72   |      |
| 2601 | 50.16 | CO   | 44.81    | 600    |        | VC    | 32.85377 | 1 in 81   |      |
| 3703 | 50.83 | CO   | 41.53    | 600    |        | VC    | 107.2054 | 1 in 95   |      |
| 2704 | 51.17 | CO   | 45.78    | 600    |        | VC    | 75.86052 | 1 in 41   |      |
| 1601 | 49.61 | CO   | 45.27    | 300    |        | VC    | 18.97367 | 1 in 7    |      |
| 4903 | 54.8  | CO   | 51.85    | 375    |        | VC    | 13.27697 |           |      |
| 4702 |       | CO   |          | 150    |        | VC    | 11.45504 |           |      |
| 4702 |       | CO   |          | 150    |        | VC    | 11.45504 |           |      |
| 9606 | 50.66 | SW   | 49.08    | 150    |        | VC    | 12.86911 | 1 in 141  |      |
| 3905 | 54.55 | CO   | 49.92    | 375    |        | VC    | 70.59293 | 1 in 64   |      |
| 2406 | 40.78 | SW   | 38.4     | 150    |        | VC    | 2        |           |      |
| 2406 | 40.78 | SW   | 38.4     | 150    |        | VC    | 2        |           |      |
| 1901 | 150   | CO   |          | 150    |        | VC    | 38.67863 | 1 in 83   |      |
| 1902 | 52.82 | CO   | 49.55    | 375    |        | VC    | 108.4966 | 1 in 139  |      |
| 5803 | 51.95 | CO   | 48.3     | 300    |        | VC    | 86.16264 | 1 in 139  |      |
| 5803 | 51.95 | CO   | 48.3     | 300    |        | VC    | 86.16264 | 1 in 139  |      |
| 0803 | 49.42 | CO   | 46.14    | 300    |        | VC    | 27.51983 |           |      |
| 3501 | 45.71 | SW   | 41.52    | 300    |        | VC    | 3.605551 |           |      |
| 3501 | 45.71 | SW   | 41.52    | 300    |        | VC    | 3.605551 |           |      |
| 2501 | 46.7  | CO   | 40.17    | 380    |        | VC    | 13.60147 | 1 in 22   |      |
| 4901 | 53.85 | CO   | 49.06    | 375    |        | VC    | 116.4818 | 1 in 85   |      |
| 4701 | 52.46 | CO   | 47.67    | 375    |        | VC    | 36.34556 |           |      |
| 0603 | 45.44 | CO   | 45.13    | 600    |        | BR    | 13       |           |      |
| 5802 | 51.76 | CO   | 48.44    | 300    |        | VC    | 15.23155 | 1 in 109  |      |
| 2002 | 53.41 | CO   | 51.63    | 150    |        | VC    | 3.162278 |           |      |
| 2405 | 40.49 | CO   | 32.12    | 900    |        | BR    | 69.45815 | 1 in 40   |      |
| 2405 | 40.49 | CO   | 32.12    | 900    |        | BR    | 69.45815 | 1 in 40   |      |

| Reho | Cover | Func | Invert   | Size x | Size y | Shape | Matl     | Length    | Grad |
|------|-------|------|----------|--------|--------|-------|----------|-----------|------|
| 0801 | 49.87 | CO   | 3.162278 | 300    |        | VC    | 3.162278 | 1 in 12   |      |
| 0804 | 50.9  | CO   | 47.4     | 375    |        | VC    | 16.76305 | 1 in 12   |      |
| 3502 | 46.91 | CO   | 40.08    | 375    |        | VC    | 32.01562 | 1 in 12   |      |
| 3502 | 46.91 | CO   | 40.08    | 375    |        | VC    | 32.01562 | 1 in 12   |      |
| 5901 | 54.83 | SW   | 53.11    | 300    |        | CO    | 51.53056 | 1 in 176  |      |
| 1404 | 46.61 | CO   | 40.72    | 600    |        | CO    | 85.44004 | 1 in 38   |      |
| 4004 | 54.75 | SW   | 52.82    | 375    |        | CO    | 55.23741 | 1 in 251  |      |
| 4004 | 54.75 | SW   | 52.82    | 375    |        | CO    | 55.23741 | 1 in 251  |      |
| 2502 | 46.78 | CO   | 38.82    | 600    |        | VC    | 58.27491 | 1 in 52   |      |
| 2502 | 46.78 | CO   | 38.82    | 600    |        | VC    | 58.27491 | 1 in 52   |      |
| 9902 | 50.69 | CO   | 47.52    | 375    |        | VC    | 70.83784 | 1 in 112  |      |
| 0912 |       | CO   |          | 150    |        | VC    | 8.040379 |           |      |
| 4712 |       | CO   |          | 150    |        | VC    | 10.31194 |           |      |
| 2904 | 53.1  | CO   | 45.29    | 600    |        | VC    | 69.89278 | 1 in 74   |      |
| 3601 | 48.72 | CO   | 43.09    | 400    |        | VC    | 46.57253 | 1 in 43   |      |
| 2903 | 53.08 | CO   | 48.07    | 375    |        | VC    | 58.87275 | 1 in 1472 |      |
| 4603 | 49.33 | CO   | 44.46    | 300    |        | VC    | 60.00833 | 1 in 46   |      |
| 1702 | 51.25 | CO   | 47.86    | 300    |        | VC    | 70.87299 | 1 in 41   |      |
| 4904 | 54.65 | FO   | 52.42    | 150    |        | VC    | 44.18269 | 1 in 138  |      |
| 1604 | 49.63 | CO   | 44.33    | 600    |        | VC    | 61.27115 | 1 in 52   |      |
| 4604 |       | SW   |          | 150    |        | VC    | 4.526542 |           |      |
| 0701 | 45.98 | CO   | 44.49    | 375    |        | VC    | 3.162278 | 1 in 12   |      |
| 3705 | 48.11 | CO   | 43.86    | 360    |        | VC    | 53.14132 | 1 in 136  |      |
| 0807 | 49.39 | SW   | 0        | 300    |        | VC    | 2.23068  |           |      |
| 0704 | 48.1  | CO   | 44.33    | 300    |        | VC    | 117.0403 | 1 in 43   |      |
| 1403 | 41.81 | CO   | 34.61    | 600    |        | BR    | 17.88854 | 1 in 7    |      |
| 1403 | 41.81 | CO   | 34.61    | 600    |        | BR    | 17.88854 | 1 in 7    |      |
| 2603 | 48.85 | CO   | 40.19    | 600    |        | VC    | 106.0424 | 1 in 80   |      |
| 1606 | 47.98 | CO   | 44.28    | 300    |        | VC    | 4.123108 |           |      |
| 3602 | 48.81 | CO   | 43.11    | 450    |        | VC    | 4.24264  |           |      |
| 3703 | 51.1  | CO   | 46.79    | 290    |        | VC    | 56.321   | 1 in 237  |      |
| 0902 | 50.88 | CO   | 48.05    | 225    |        | VC    | 33.52611 |           |      |
| 4602 | 51.28 | CO   | 45.95    | 400    |        | VC    | 5.385165 |           |      |
| 4801 | 52.89 | CO   | 48.49    | 450    |        | VC    | 67.4757  | 1 in 30   |      |
| 0703 | 48.57 | SW   | 0        | 450    |        | VC    | 7.28011  |           |      |
| 1509 |       | CO   |          | 225    |        | VC    | 15.28911 |           |      |
| 2602 | 49.35 | CO   | 44.79    | 300    |        | VC    | 28.24881 |           |      |
| 0501 | 43.96 | CO   | 34.98    | 950    |        | BR    | 98.03061 | 1 in 654  |      |
| 0501 | 43.96 | CO   | 34.98    | 950    |        | BR    | 98.03061 | 1 in 654  |      |
| 3603 |       | CO   |          | 225    |        | VC    | 9.917004 | 1 in 16   |      |
| 4602 | 54.7  | FO   | 52.1     | 150    |        | VC    | 3.808946 | 1 in 76   |      |
| 2701 | 51    | CO   | 42.48    | 600    |        | VC    | 70.83784 | 1 in 76   |      |
| 3607 |       | CO   |          | 150    |        | VC    | 4.265729 |           |      |
| 2604 | 48.74 | CO   | 44.8     | 400    |        | VC    | 91.41963 | 1 in 52   |      |



| Reho | Cover | Func | Invert | Size x | Size y | Shape | Matl | Length    | Grad      |
|------|-------|------|--------|--------|--------|-------|------|-----------|-----------|
| 5701 | 50.79 | CO   | 47.73  | 200    |        |       | BR   | 9.91401   | 1 in 20   |
| 5901 | 54.83 | SW   | 53.11  | 300    |        |       | CO   | 51.53066  | 1 in 178  |
| 4004 | 54.75 | SW   | 52.82  | 375    |        |       | CO   | 52.22741  | 1 in 251  |
| 4004 | 54.75 | SW   | 52.82  | 375    |        |       | CO   | 52.22741  | 1 in 251  |
| 5401 | 30.55 | CO   | 24.7   | 1550   |        |       | BR   | 61.91123  |           |
| 5401 | 30.55 | CO   | 24.7   | 1550   |        |       | BR   | 61.91123  |           |
| 9602 | 44.42 | CO   | 34.86  | 600    |        |       | VC   | 25.4951   |           |
| 4601 | 51.1  | CO   | 48.79  | 300    |        |       | VC   | 55.9464   | 1 in 108  |
| 4601 | 51.1  | CO   | 48.79  | 300    |        |       | VC   | 55.9464   | 1 in 108  |
| 9603 | 44.61 | CO   | 43.24  | 150    |        |       | VC   | 7.008204  |           |
| 9603 | 44.61 | CO   | 43.24  | 150    |        |       | VC   | 7.008204  |           |
| 6004 | 55.65 | SW   | 54.14  | 300    |        |       | CO   | 74.54328  | 1 in 72   |
| 0002 | 35.89 | CO   | 31.78  | 375    |        |       | VC   | 19.23797  | 1 in 41   |
| 5001 | 55.83 | FO   | 53.12  | 150    |        |       | VC   | 51.98477  | 1 in 124  |
| 4703 |       | CO   |        | 150    |        |       | VC   | 19.23797  |           |
| 4703 |       | CO   |        | 150    |        |       | VC   | 19.23797  |           |
| 5001 | 48.85 | CO   | 48.85  | 600    |        |       | BR   | 51.22499  |           |
| 5501 |       | BR   |        | 300    |        |       | BR   | 61.51028  |           |
| 5501 |       | BR   |        | 300    |        |       | BR   | 61.51028  |           |
| 6705 | 46    | CO   | 41.39  | 450    |        |       | VC   | 7.924313  | 1 in 158  |
| 9508 |       | CO   |        | 150    |        |       | VC   | 3.465538  |           |
| 9508 |       | CO   |        | 150    |        |       | VC   | 3.465538  |           |
| 5603 | 46.58 | CO   | 41.89  | 450    |        |       | DI   | 28.18983  | 1 in 131  |
| 5601 | 46.75 | CO   | 41.85  | 375    |        |       | BR   | 55.97403  | 1 in 622  |
| 6002 | 56.11 | FO   | 53.83  | 150    |        |       | VC   | 47.10017  | 1 in 143  |
| 4003 | 54.75 | FO   | 52.7   | 150    |        |       | VC   | 47.22729  | 1 in 169  |
| 4003 | 54.75 | FO   | 52.7   | 150    |        |       | VC   | 47.22729  | 1 in 169  |
| 6701 | 50.78 | CO   | 46.73  | 375    |        |       | VC   | 27.5885   | 1 in 10   |
| 5002 | 55.45 | FO   | 53.5   | 150    |        |       | VC   | 55.98797  | 1 in 147  |
| 4003 | 49.33 | CO   | 44.46  | 300    |        |       | VC   | 60.03033  | 1 in 46   |
| 7401 |       | CO   |        | 375    |        |       | CO   | 86.35362  |           |
| 9601 | 32.92 | CO   | 26.03  | 1600   |        |       | BR   | 84.62039  | 1 in 154  |
| 9509 |       | CO   |        | 150    |        |       | VC   | 18.71178  |           |
| 6003 | 56.34 | SW   | 54.61  | 300    |        |       | CO   | 64.73236  | 1 in 138  |
| 9514 |       | CO   |        | 150    |        |       | VC   | 22.10397  |           |
| 9514 |       | CO   |        | 150    |        |       | VC   | 22.10397  |           |
| 9802 | 32.59 | CO   | 25.44  | 1600   |        |       | BR   | 61.46544  | 1 in 1537 |
| 9702 | 32.14 | CO   | 25.46  | 1550   |        |       | BR   | 17.48425  |           |
| 6401 | 31.29 | CO   | 24.77  | 1530   |        |       | BR   | 23.22471  |           |
| 6401 | 31.29 | CO   | 24.77  | 1530   |        |       | BR   | 23.22471  |           |
| 6702 | 50.71 | CO   | 47.44  | 375    |        |       | VC   | 12.6277   | 1 in 18   |
| 9701 | 32.54 | CO   | 25.4   | 1550   |        |       | BR   | 30.05022  |           |
| 6601 | 45.81 | CO   | 41.32  | 375    |        |       | MAC  | 9.262801  |           |
| 9601 | 32.65 | CO   | 28.71  | 300    |        |       | VC   | 43.9659   |           |
| 9513 |       | CO   |        | 150    |        |       | VC   | 9.752625  |           |
| 9513 |       | CO   |        | 150    |        |       | VC   | 9.752625  |           |
| 4702 |       | CO   |        | 150    |        |       | VC   | 11.45504  |           |
| 4702 |       | CO   |        | 150    |        |       | VC   | 11.45504  |           |
| 6701 |       | FO   |        | 150    |        |       | VC   | 54.45973  |           |
| 6708 | 48.44 | CO   | 43.95  | 450    |        |       | DI   | 10.311    | 1 in 13   |
| 9519 |       | CO   |        | 150    |        |       | VC   | 15.5599   |           |
| 9519 |       | CO   |        | 150    |        |       | VC   | 15.5599   |           |
| 0901 | 48.85 | CO   |        | 150    |        |       | VC   | 27.23499  |           |
| 9501 | 42.64 | CO   | 38.9   | 300    |        |       | CO   | 10.81665  | 1 in 7    |
| 9501 | 42.64 | CO   | 38.9   | 300    |        |       | CO   | 10.81665  | 1 in 7    |
| 9522 |       | CO   |        | 150    |        |       | VC   | 4.785507  |           |
| 9522 |       | CO   |        | 150    |        |       | VC   | 4.785507  |           |
| 0003 | 34.47 | CO   | 31.25  | 375    |        |       | VC   | 6.460124  |           |
| 5603 | 46.56 | CO   | 41.69  | 0      |        |       | UN   | 3.544001  | 1 in 18   |
| 9521 |       | CO   |        | 150    |        |       | VC   | 42.23491  |           |
| 9521 |       | CO   |        | 150    |        |       | VC   | 42.23491  |           |
| 8504 | 41.79 | CO   | 37.42  | 480    |        |       | BR   | 111.4201  | 1 in 13   |
| 8504 | 41.79 | CO   | 37.42  | 480    |        |       | BR   | 111.4201  | 1 in 13   |
| 9520 |       | CO   |        | 150    |        |       | VC   | 9.927451  |           |
| 9520 |       | CO   |        | 150    |        |       | VC   | 9.927451  |           |
| 7501 | 31.57 | CO   | 29.36  | 375    |        |       | VC   | 15.26434  |           |
| 7501 | 31.57 | CO   | 29.36  | 375    |        |       | VC   | 15.26434  |           |
| 5803 | 51.95 | CO   | 48.3   | 300    |        |       | VC   | 86.16264  | 1 in 139  |
| 5803 | 51.95 | CO   | 48.3   | 300    |        |       | VC   | 86.16264  | 1 in 139  |
| 8601 | 30.23 | CO   | 25.24  | 1550   |        |       | BR   | 17.88854  |           |
| 7503 | 30.16 | CO   | 25     | 1550   |        |       | BR   | 99.29091  | 1 in 473  |
| 7503 | 30.16 | CO   | 25     | 1550   |        |       | BR   | 99.29091  | 1 in 473  |
| 9603 |       | CO   |        | 600    |        |       | VC   | 31.96159  |           |
| 9602 | 51.76 | CO   | 48.44  | 300    |        |       | VC   | 15.23155  | 1 in 109  |
| 6708 | 48.44 | CO   | 43.95  | 0      |        |       | UN   | 0.9112133 | 1 in 1    |
| 6407 | 32    | CO   | 28.2   | 375    |        |       | CO   | 33.12099  |           |
| 6407 | 32    | CO   | 28.2   | 375    |        |       | CO   | 33.12099  |           |
| 8503 | 40.57 | CO   | 36.15  | 225    |        |       | VC   | 114.0305  |           |

| Reho | Cover | Func | Invert | Size x | Size y | Shape | Matl | Length   | Grad      |
|------|-------|------|--------|--------|--------|-------|------|----------|-----------|
| 5701 | 50.79 | CO   | 47.73  | 200    |        |       | BR   | 9.91401  | 1 in 20   |
| 5901 | 54.83 | SW   | 53.11  | 300    |        |       | CO   | 51.53066 | 1 in 178  |
| 4004 | 54.75 | SW   | 52.82  | 375    |        |       | CO   | 52.22741 | 1 in 251  |
| 4004 | 54.75 | SW   | 52.82  | 375    |        |       | CO   | 52.22741 | 1 in 251  |
| 5401 | 30.55 | CO   | 24.7   | 1550   |        |       | BR   | 61.91123 |           |
| 5401 | 30.55 | CO   | 24.7   | 1550   |        |       | BR   | 61.91123 |           |
| 9602 | 44.42 | CO   | 34.86  | 600    |        |       | VC   | 25.4951  |           |
| 4601 | 51.1  | CO   | 48.79  | 300    |        |       | VC   | 55.9464  | 1 in 108  |
| 4601 | 51.1  | CO   | 48.79  | 300    |        |       | VC   | 55.9464  | 1 in 108  |
| 9603 | 44.61 | CO   | 43.24  | 150    |        |       | VC   | 7.008204 |           |
| 9603 | 44.61 | CO   | 43.24  | 150    |        |       | VC   | 7.008204 |           |
| 6004 | 55.65 | SW   | 54.14  | 300    |        |       | CO   | 74.54328 | 1 in 72   |
| 0002 | 35.89 | CO   | 31.78  | 375    |        |       | VC   | 19.23797 | 1 in 41   |
| 5001 | 55.83 | FO   | 53.12  | 150    |        |       | VC   | 51.98477 | 1 in 124  |
| 4703 |       | CO   |        | 150    |        |       | VC   | 19.23797 |           |
| 4703 |       | CO   |        | 150    |        |       | VC   | 19.23797 |           |
| 5001 | 48.85 | CO   | 48.85  | 600    |        |       | BR   | 51.22499 |           |
| 5501 |       | BR   |        | 300    |        |       | BR   | 61.51028 |           |
| 5501 |       | BR   |        | 300    |        |       | BR   | 61.51028 |           |
| 6705 | 46    | CO   | 41.39  | 450    |        |       | VC   | 7.924313 | 1 in 158  |
| 9508 |       | CO   |        | 150    |        |       | VC   | 3.465538 |           |
| 9508 |       | CO   |        | 150    |        |       | VC   | 3.465538 |           |
| 5603 | 46.58 | CO   | 41.89  | 450    |        |       | DI   | 28.18983 | 1 in 131  |
| 5601 | 46.75 | CO   | 41.85  | 375    |        |       | BR   | 55.97403 | 1 in 622  |
| 6002 | 56.11 | FO   | 53.83  | 150    |        |       | VC   | 47.10017 | 1 in 143  |
| 4003 | 54.75 | FO   | 52.7   | 150    |        |       | VC   | 47.22729 | 1 in 169  |
| 4003 | 54.75 | FO   | 52.7   | 150    |        |       | VC   | 47.22729 | 1 in 169  |
| 6701 | 50.78 | CO   | 46.73  | 375    |        |       | VC   | 27.5885  | 1 in 10   |
| 5002 | 55.45 | FO   | 53.5   | 150    |        |       | VC   | 55.98797 | 1 in 147  |
| 4003 | 49.33 | CO   | 44.46  | 300    |        |       | VC   | 60.03033 | 1 in 46   |
| 7401 |       | CO   |        | 375    |        |       | CO   | 86.35362 |           |
| 9601 | 32.92 | CO   | 26.03  | 1600   |        |       | BR   | 84.62039 | 1 in 154  |
| 9509 |       | CO   |        | 150    |        |       | VC   | 18.71178 |           |
| 6003 | 56.34 | SW   | 54.61  | 300    |        |       | CO   | 64.73236 | 1 in 138  |
| 9514 |       | CO   |        | 150    |        |       | VC   | 22.10397 |           |
| 9514 |       | CO   |        | 150    |        |       | VC   | 22.10397 |           |
| 9802 | 32.59 | CO   | 25.44  | 1600   |        |       | BR   | 61.46544 | 1 in 1537 |
| 9702 | 32.14 | CO   | 25.46  | 1550   |        |       | BR   | 17.48425 |           |
| 6401 | 31.29 | CO   | 24.77  | 1530   |        |       | VC   | 19.23797 | 1 in 41   |



Scale: 1:4655  
Date: 01/07/2021

## WATER MAINS RECORDS

Address or Site Reference: 97079 - A1  
Printed by: Property Searches



Water for the North West

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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**Atkins - Utility Solutions**

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Bristol,  
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FAO:

**How to contact us:**

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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: 97079 - A3 1:1250  
Our Ref: UUPS-ORD-304256  
Date: 05/07/2021**

**Dear Sirs**

**Location: 97079 - A3 1:1250**

I acknowledge with thanks your request dated 05/07/2021 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



### LEGEND

| Proposed | Abandoned | Live |                       |
|----------|-----------|------|-----------------------|
|          |           |      | Distribution Main     |
|          |           |      | Trunk Main            |
|          |           |      | Comms Pipe            |
|          |           |      | Private Pipe          |
|          |           |      | Concessionary Service |
|          |           |      | Raw Water             |
|          |           |      | LDTM Raw Water        |
|          |           |      | LDTM Treated Water    |

|  |                           |
|--|---------------------------|
|  | Air Valve                 |
|  | AC Valve, open            |
|  | AC Valve, closed          |
|  | CC Valve, open            |
|  | CC Valve, closed          |
|  | Non Return Valve          |
|  | Pressure Management Valve |
|  | OMS Valve                 |
|  | Stop Tap                  |
|  | Flow Meter                |
|  | Domestic Meter            |
|  | Commercial Meter          |
|  | Pump                      |
|  | Hydrant                   |
|  | Fire Hydrant              |
|  | Anode                     |
|  | Chlorination Point        |
|  | De-chlorination Point     |
|  | Strainer Point            |
|  | Access Point              |
|  | Hatch Box                 |
|  | IP Point                  |
|  | Sampling Station          |
|  | Logger Box                |
|  | Bore Hole                 |
|  | Inlet Point               |
|  | Bulk Supply Point         |
|  | End Cap                   |
|  | Site Termination          |
|  | Change of Characteristic  |
|  | Condition Report          |

| Property Types |                         |
|----------------|-------------------------|
|                | Water Tower             |
|                | Valve House             |
|                | Booster Pumping Station |
|                | Intake Pumping Station  |
|                | Water Treatment Works   |
|                | Supply Reservoir        |
|                | Service Reservoir       |
|                | Impounding Reservoir    |
|                | Pipe Bridge             |

Symbology for proposed assets is the same as above, but shown in green.  
Symbology for abandoned assets is the same as above, but shown in black.

**Address or Site Reference:**

97079 - A3 1:1250,

**OS sheet number:** SJ8499SE

**Scale:** 1:1250

**Date:** 05/07/2021

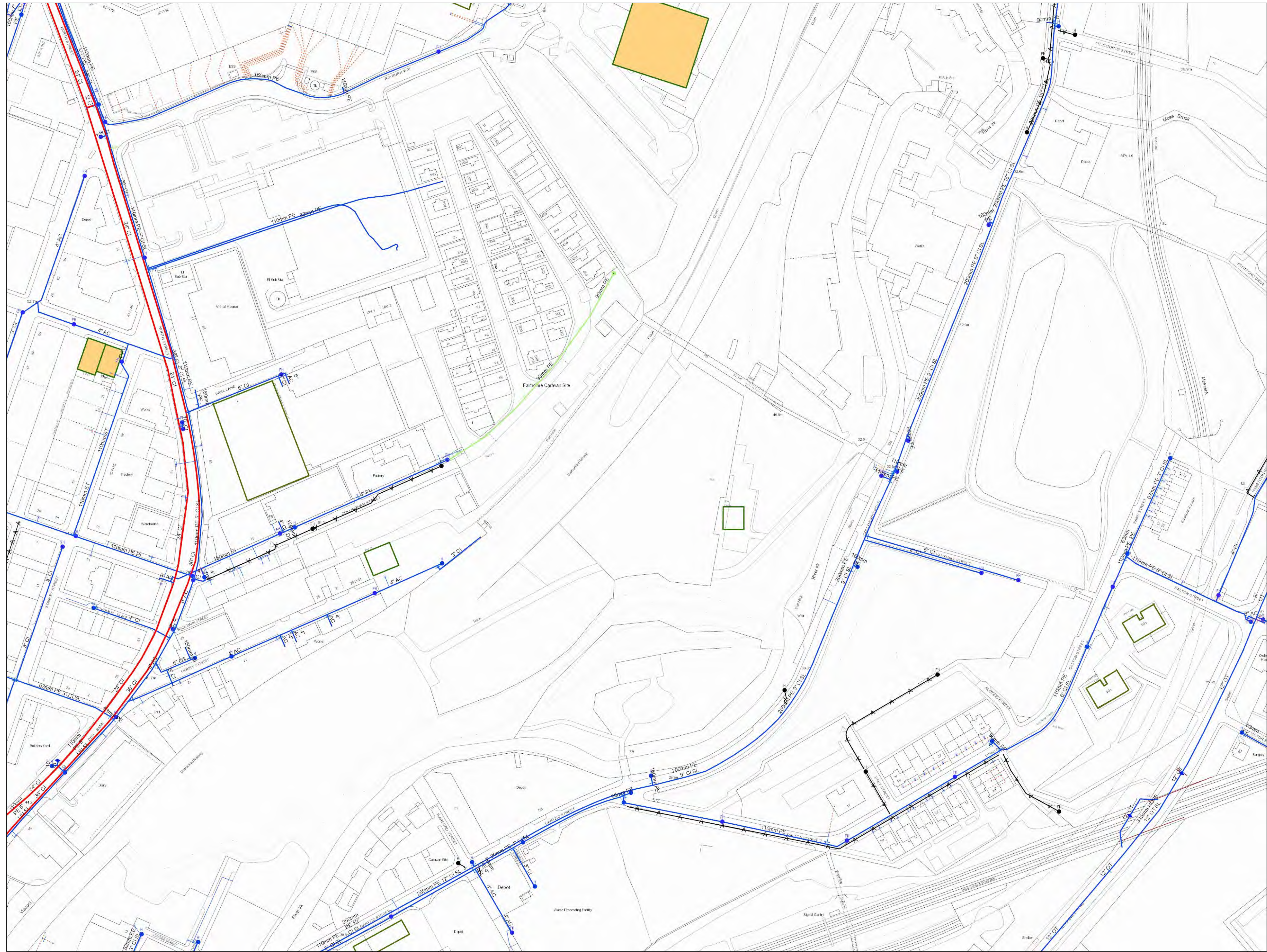
**Printed by:** Property Searches

**WATER MAIN RECORDS**

United Utilities  
Water for the North West

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Proposed

Abandoned

Live

Distribution Main

Trunk Main

Comms Pipe

Private Pipe

Concessionary Service

Raw Water

LDTM Raw Water

LDTM Treated Water

Air Valve

AC Valve, open

AC Valve, closed

Property Types

Water Tower

Valve House

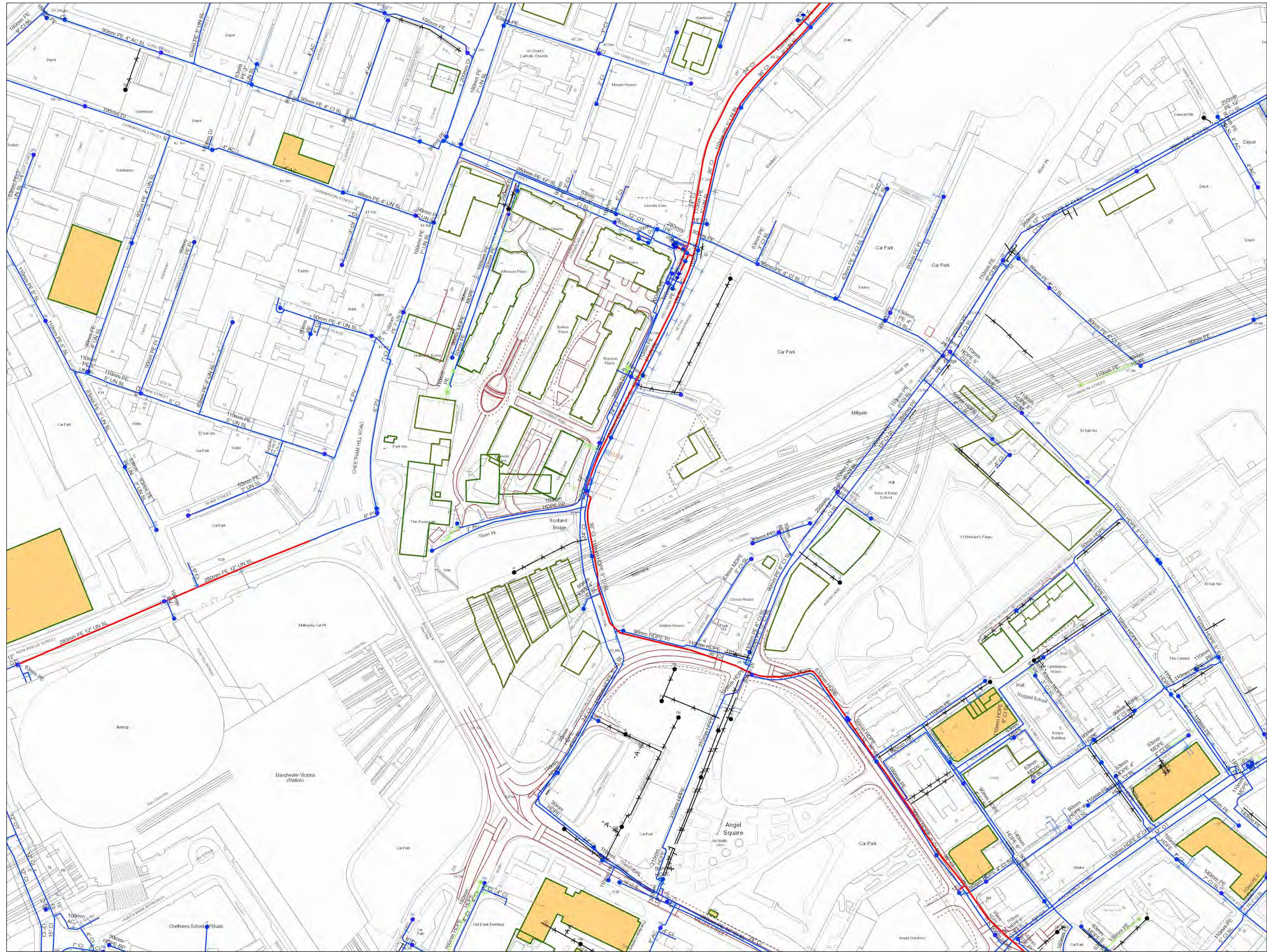
Symbology for proposed assets is the same as above, but shown in green.  
Symbology for abandoned assets is the same as above, but shown in black.

Address or Site Reference:  
97079 - A3 1:1250,

OS sheet number: SJ8499NE  
Scale: 1:1250  
Date: 05/07/2021  
Printed by: Property Searches

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### LEGEND

| Proposed | Abandoned | Live |                       |
|----------|-----------|------|-----------------------|
|          |           |      | Distribution Main     |
|          |           |      | Trunk Main            |
|          |           |      | Comms Pipe            |
|          |           |      | Private Pipe          |
|          |           |      | Concessionary Service |
|          |           |      | Raw Water             |
|          |           |      | LDTM Raw Water        |
|          |           |      | LDTM Treated Water    |

|  |                           |
|--|---------------------------|
|  | Air Valve                 |
|  | AC Valve, open            |
|  | AC Valve, closed          |
|  | CC Valve, open            |
|  | CC Valve, closed          |
|  | Non Return Valve          |
|  | Pressure Management Valve |
|  | OMS Valve                 |
|  | Stop Tap                  |
|  | Flow Meter                |
|  | Domestic Meter            |
|  | Commercial Meter          |
|  | Pump                      |
|  | Hydrant                   |
|  | Fire Hydrant              |
|  | Anode                     |
|  | Chlorination Point        |
|  | De-chlorination Point     |
|  | Strainer Point            |
|  | Access Point              |
|  | Hatch Box                 |
|  | IP Point                  |
|  | Sampling Station          |
|  | Logger Box                |
|  | Bore Hole                 |
|  | Inlet Point               |
|  | Bulk Supply Point         |
|  | End Cap                   |
|  | Site Termination          |
|  | Change of Characteristic  |
|  | Condition Report          |

| Property Types |                         |
|----------------|-------------------------|
|                | Water Tower             |
|                | Valve House             |
|                | Booster Pumping Station |
|                | Intake Pumping Station  |
|                | Water Treatment Works   |
|                | Supply Reservoir        |
|                | Service Reservoir       |
|                | Impounding Reservoir    |
|                | Pipe Bridge             |

Symbology for proposed assets is the same as above, but shown in .  
Symbology for abandoned assets is the same as above, but shown in black.

**Address or Site Reference:**  
97079 - A3 1:1250,

**OS sheet number:** SJ8499SW  
**Scale:** 1:1250  
**Date:** 05/07/2021  
**Printed by:** Property Searches

**WATER MAIN RECORDS**

Water for the North West

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### LEGEND

| Proposed | Abandoned | Live |                       |
|----------|-----------|------|-----------------------|
|          |           |      | Distribution Main     |
|          |           |      | Trunk Main            |
|          |           |      | Comms Pipe            |
|          |           |      | Private Pipe          |
|          |           |      | Concessionary Service |
|          |           |      | Raw Water             |
|          |           |      | LDTM Raw Water        |
|          |           |      | LDTM Treated Water    |

|  |                           |
|--|---------------------------|
|  | Air Valve                 |
|  | AC Valve, open            |
|  | AC Valve, closed          |
|  | CC Valve, open            |
|  | CC Valve, closed          |
|  | Non Return Valve          |
|  | Pressure Management Valve |
|  | OMS Valve                 |
|  | Stop Tap                  |
|  | Flow Meter                |
|  | Domestic Meter            |
|  | Commercial Meter          |
|  | Pump                      |
|  | Hydrant                   |
|  | Fire Hydrant              |
|  | Anode                     |
|  | Chlorination Point        |
|  | De-chlorination Point     |
|  | Strainer Point            |
|  | Access Point              |
|  | Hatch Box                 |
|  | IP Point                  |
|  | Sampling Station          |
|  | Logger Box                |
|  | Bore Hole                 |
|  | Inlet Point               |
|  | Bulk Supply Point         |
|  | End Cap                   |
|  | Site Termination          |
|  | Change of Characteristic  |
|  | Condition Report          |

| Property Types |                         |
|----------------|-------------------------|
|                | Water Tower             |
|                | Valve House             |
|                | Booster Pumping Station |
|                | Intake Pumping Station  |
|                | Water Treatment Works   |
|                | Supply Reservoir        |
|                | Service Reservoir       |
|                | Impounding Reservoir    |
|                | Pipe Bridge             |

Symbology for proposed assets is the same as above, but shown in green.  
Symbology for abandoned assets is the same as above, but shown in black.

**Address or Site Reference:**  
97079 - A3 1:1250,

**OS sheet number:** SJ8499NW  
**Scale:** 1:1250  
**Date:** 05/07/2021

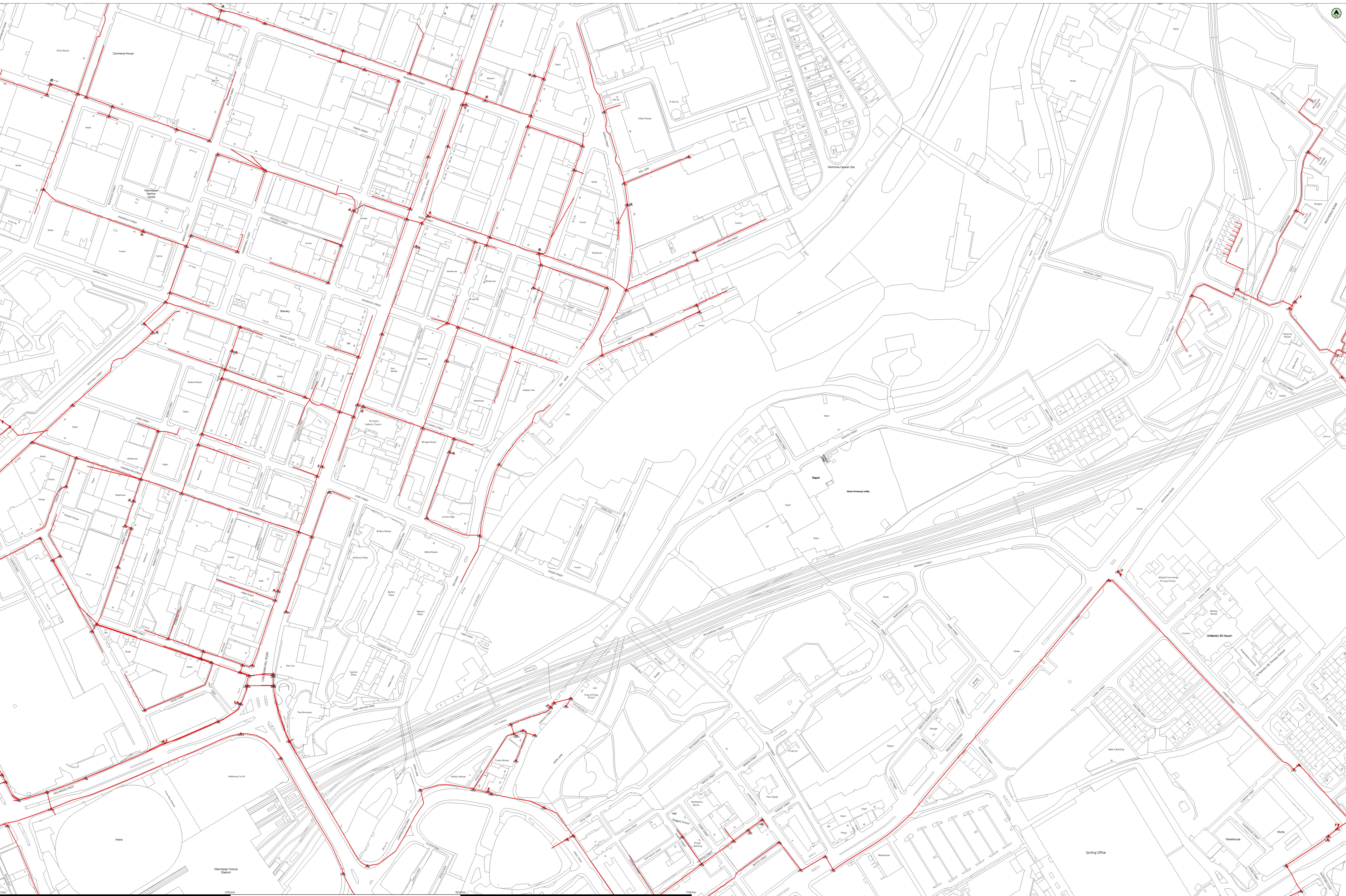
**Printed by:** Property Searches

**WATER  
MAIN  
RECORDS**

Water for the North West

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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0m 250m 500m 750m

Scale: 1:1250

Map Centre: 384506.399505

Date updated: 01/06/21

Our Ref: 579322 - 1

Telecoms Plan A0

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 interfaces where mains voltage power cables have been located inside green earth race ducts during former works can be found during the 'dig not dig' process. These can be identified 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 location of any underground services may differ from the information shown on this plan. Virgin Media will not have any liability for any errors or inaccuracies in the plan or for any loss or damage caused or arising from the use of another's plan. This plan is provided by Virgin Media Limited (c) Crown copyright and database rights 2021 Ordnance Survey 100013029

|              |         |         |
|--------------|---------|---------|
| Duct, Trench | Chamber | Cabinet |
|              |         |         |

|       |
|-------|
| 97079 |
|       |
|       |





**From:** Gopalakrishnan, Roshni  
**Sent:** 16 June 2021 12:16  
**To:** Utility Solutions GDC Requests  
**Subject:** RE: Plant Enquiry - 97079 - Site off Dantzic Street, Manchester - Please respond by 17/06/2021  
**Attachments:** Special-Requirements.pdf; 97079 3.pdf; 97079 4.pdf; 97079 5.pdf; 97079.pdf; 97079 2.pdf

Please accept this email as confirmation that Vodafone: Fixed **does** have apparatus within the vicinity of your proposed works detailed below.

Please see attached network information.

Please also note that according to our records there is leased and/or third party network within your proposed works. However, because the plant is leased/third party we strongly recommend you contact all other utility providers to gather the extent of services within that area. Unfortunately, we are unable to advise who the plant is leased to or who the third party is.

**Note:** Only affected parts are printed and our network is not present in the remaining areas of your proposed works.

**IMPORTANT - PLEASE READ = Your Next Step?:-**

Where apparatus is affected and requires diversion, please send all the scheme related proposals that affects the Vodafone Network to [c3requests@vodafone.com](mailto:c3requests@vodafone.com) with a request for a 'C3 Budget Estimate'. Please ensure you include a plan showing proposed works. (A location plan is insufficient for Vodafone to provide a costing). These estimates will be provided by Vodafone directly, normally within 20 working days from receipt of your request. Please include proof of this C2 response when requesting a C3 (using the 'forward' option). Diversionary works may be necessary if the existing line of the highway/railway or its levels are altered.

**If you require a quote for new development, commercial site connections - please email your requirements and associated plans to [c3requests@vodafone.com](mailto:c3requests@vodafone.com) and a budget estimate will be returned, within 10 working days of receipt**

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

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

ATKINS working on behalf of Vodafone: Fixed



**PLEASE NOTE:**

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



Please consider the environment before printing this e-mail



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Legend

- Access Chamber.Location Active Carriageway Chamber
- Access Chamber.Location Active Footway Chamber
- Underground Route.Route Act. - Owned
- Underground Route.Route Act. - Leased



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

Plot Date : 16/06/2021      Scale : 1:1250

This plan shows apparatus owned by members of the Vodafone Group of companies (including legacy telecommunication companies currently within the group)

Information with regard to such apparatus should always be obtained from Vodafone or its appointed agents.



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### Legend

- Access Chamber.Location Active Carriageway Chamber
- Access Chamber.Location Active Footway Chamber
- Underground Route.Route Act. - Owned
- Underground Route.Route Act. - Leased
- Underground Route.Route Act. - Third Party



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

Plot Date : 16/06/2021

Scale : 1:1250

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Legend

Underground Route.Route Act. - Leased



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

Plot Date : 16/06/2021      Scale : 1:1250

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## Legend

Underground Route.Route Act. - Leased



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

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Legend

- Access Chamber.Location Active Footway Chamber
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- Underground Route.Route Act. - Leased



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

|                        |                |
|------------------------|----------------|
| Plot Date : 16/06/2021 | Scale : 1:1250 |
|------------------------|----------------|

This plan shows apparatus owned by members of the Vodafone Group of companies (including legacy telecommunication companies currently within the group)

Information with regard to such apparatus should always be obtained from Vodafone or its appointed agents.



# Special Requirements relating to the External Plant Network of Vodafone

## Contents

|     |                                                           |    |
|-----|-----------------------------------------------------------|----|
| 1.  | Introduction.....                                         | 1  |
| 2.  | Purpose of document.....                                  | 1  |
| 3.  | Scope.....                                                | 2  |
| 4.  | Vodafone Network and Apparatus .....                      | 2  |
| 5.  | Plant records.....                                        | 2  |
| 6.  | Definitions.....                                          | 2  |
| 7.  | Requirements.....                                         | 3  |
| 8.  | Depths of cover.....                                      | 3  |
| 9.  | Separation .....                                          | 4  |
| 10. | Jointing chambers.....                                    | 5  |
| 11. | Notification periods .....                                | 5  |
| 12. | Excavation and backfill.....                              | 5  |
| 13. | Foam concrete .....                                       | 6  |
| 14. | Attendance of Company Representative.....                 | 6  |
| 15. | Damage reports.....                                       | 6  |
| 16. | Appendix A – Street Works Team Contacts for Vodafone..... | 7  |
| 17. | Appendix B – What constitutes Vodafone Network .....      | 8  |
| 18. | About this Document.....                                  | 13 |

## 1. Introduction

This document sets out the procedure that will apply when Other Parties intend or are undertaking works in the vicinity of Vodafone apparatus (see Appendix B for further information on what constitutes Vodafone apparatus).

## 2. Purpose of document

This document provides a means by which the Vodafone specific special requirements relating to their apparatus, regardless of it being situated in the public highway / road, private street, land or any other areas, is made aware to Other Parties.



### 3. Scope

This document will be presented to Other Parties or Contractors to encourage those undertaking works within the vicinity of Vodafone apparatus to refer to and comply with. This is in order to protect where necessary the Vodafone apparatus and to avoid damage to the apparatus and loss of service.

A National Joint Utilities Group (NJUG) document NJUG Volume 3 Guidelines on the Management of Third Party Cable Ducting provides useful reference material.

It should be noted that, where appropriate, additional information on avoiding danger from underground apparatus is contained within the HSG47 guidance book titled "Avoiding Danger from Underground Services."

### 4. Vodafone Network and Apparatus

Damage to Vodafone apparatus is extremely disruptive and can be expensive to repair, especially where long lengths of cable have to be replaced.

In order to maintain the network integrity and minimise disruption to service, it is essential that disturbances are absolutely minimal. When working within the vicinity of Vodafone apparatus, extreme care is necessary in order to avoid costly repairs. The Other Parties / Contractor shall make every effort to ensure that disturbance of Vodafone apparatus is no more than is absolutely necessary for the completion of the works in accordance with their contract. It should be noted that it is an offence to interfere with Vodafone apparatus without first contacting the company for advice.

### 5. Plant records

It is the responsibility of the Other Parties undertaking works which may affect Vodafone apparatus to obtain all relevant Vodafone plant records from our agent Atkins Global prior to works commencing. This may be done by contacting the Atkins Global Plant Enquiries Team listed in Appendix B.

Plant records for such enquiries will generally be provided within 10 working days of receipt and in compliance with the New Roads and Street Works Act 1991 [NRSWA] requirements.

### 6. Definitions

The following definitions are applicable in this document:

- a) **Apparatus** - means all surface or sub-surface equipment and plant used by Vodafone including any associated cables or ducts owned, leased or rented by Vodafone.
- b) **Cable** - means any polythene or other sheath containing optical fibres or metallic conductors.
- c) **Depth of cover** - means the depth from the surface to the topmost barrel of the duct nest, in the case of ducts encased in concrete, to the top of the concrete, and in the case of directly buried cable, the top of the cable.
- d) **Jointing chamber** - means any manhole, surface box or other chamber giving access to Vodafone apparatus or their network.
- e) **Utility** - means an organisation licensed to provide gas, water, electricity, Cable TV or telecommunications services.
- f) **Developer** - means an organisation licensed to develop industrial/residential premises or given license to connect to utility apparatus.



- g) **Contractor** - means the individual, firm or company contracted to undertake the work for a Utility or Other Parties.
- h) **Other Parties** - means the Utilities, Highway or Roads Authorities, Developers, Street/Roads Authority Section 50/109 licensees
- i) **Site** - means the location of, or in the vicinity of, the various works.

## 7. Requirements

Prior to commencing any work or moving heavy plant or equipment over any portion of the site, the Other Parties or Contractor shall notify Vodafone of their intentions. This may be done by contacting Vodafone via the contact list in Appendix B.

Upon receipt of this notification, Vodafone will identify if their apparatus is affected. If any Vodafone apparatus is affected by the works then they will arrange for the necessary records to be provided and confirm details of Vodafone apparatus and network operated within the affected area or adjacent to the proposed work site.

### 7.1 Location of Plant

It is the responsibility of the Other Parties or Contractors to undertake adequate plant location procedures. These may include searches for metallic cables which must be performed by actively inducing a signal in a cable conductor via a transmitter. A passive search is not considered sufficient.

Before applying a tracing signal to the Vodafone apparatus, the Other Parties or Contractors shall seek confirmation from Atkins Global that the Vodafone apparatus will not suffer any disruption to its networks normal workings as a result of the nature of the signal being induced.

### 7.2 Trial excavations

Optic fibre cables are very susceptible to damage from excavation tools. They are not electrically conductive and cannot be located by radio induction methods. Once an approximate location is known, the exact location must be ascertained by means of hand dug pilot holes. Where the work to be carried out by the Other Party or Contractor involves excavation in the vicinity of our apparatus, the Other Party or Contractor shall, by trial excavation at his own expense, determine the exact location and depth of the Vodafone apparatus. All excavations adjacent to the Vodafone apparatus are to be carried out by hand until the extent and /or location of the apparatus is known.

All excavation work shall be executed in accordance with the current issue of Health and Safety series booklet HSG47, Avoiding danger from underground services.

## 8. Depths of cover

The Other Party or Contractor should note that the minimum depths of cover for Vodafone apparatus shall be maintained together with specified separation requirements. Where the minimum depths of cover specified by Vodafone cannot be maintained, the Other Party or Contractor shall at their own expense, carry out the instructions of Vodafone requirements for the protection or diversion of their apparatus.

**The Other Party or Contractor should have particular regard to the possibility of encountering Vodafone apparatus (including ducts and cables), at depths of cover other than that reported.**

Surface cables (such as cables on bridges or walls) which are liable to be placed in danger from the Other Parties or Contractors works shall be protected, at the Other Parties expense, as directed by the Vodafone representative.



## 9. Separation

Reference should be made to HSG47 to ensure that adequate separation is achieved. The following details outline the specific requirements of Vodafone and capture the HSG47 requirements.

### 9.1 High voltage cables

High voltage single core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 500 mm.

High voltage multi-core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 350 mm.

In exceptional circumstances where the above clearances cannot be maintained, the separating distance may be reduced to a minimum of 175 mm. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the High Voltage cable and the Company Apparatus, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 mm from the concrete.

### 9.2 Low voltage cables

Low voltage cables of less than 1000 V shall have a minimum clearance from Company Apparatus of 180 mm. In exceptional circumstances where the above clearance cannot be maintained, the separating distance may be reduced to a minimum of 75 mm. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the services, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 mm from the concrete.

### 9.3 Ancillary electrical apparatus

Street furniture such as lamp posts, traffic posts and other such ancillary electrical apparatus shall have a minimum clearance of 150 mm from underground Company Apparatus and 600mm clearance from above ground Company Apparatus.

### 9.4 High pressure gas mains and other Undertakers plant/equipment

High pressure gas mains shall have a minimum clearance of 450 mm from Company Apparatus. All other undertakers' plant and equipment, when running in parallel with Company Apparatus, shall have a minimum clearance of 200mm. Where gas mains cross Company Apparatus, the minimum clearance shall be 200mm. All other undertakers' plant and equipment, when running across Company Apparatus, shall have a minimum clearance of 100 mm. NJUG Volume 1, Guidelines on the positioning and colour coding of underground utilities' apparatus refers.

### 9.5 Other Undertakers plant

Other undertakers' plant and equipment which runs in parallel with Company Apparatus shall have a minimum clearance of 200mm. All other undertakers' plant and equipment when running across Company Apparatus shall have a minimum clearance of 100mm.

### 9.6 Tramways

Each separating distance shall be individually agreed with the Company Representative.



## 10. Jointing chambers

### 10.1 Protection

Footway type jointing chambers are not designed to withstand carriageway loadings.

Where such chambers are liable to be placed at risk, either temporarily or permanently, from vehicular traffic or from the movement of plant and/or equipment, they will need to be adequately protected. Alternatively, they may have to be demolished and rebuilt to carriageway standards, at the Other Parties or Contractors expense under supervision of Vodafone representative.

All Vodafone jointing chambers and / or other access points shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and / or any further equipment required by Vodafone for the maintenance of its apparatus, must be maintained at all reasonable times.

### 10.2 Access

The covers to Vodafone jointing chambers and / or apparatus shall only be lifted by means of the appropriate keys and under the direct supervision of a Vodafone representative. Other Parties or Contractors shall not enter any Vodafone jointing chamber and / or apparatus unless under the supervision of a Vodafone representative and in any case not before the mandatory gas test has been carried out in the presence of Vodafone representative and such checks have shown it to be safe to enter the Vodafone chamber and / or apparatus. The Other Parties or Contractors shall be given reasonable access to Vodafone apparatus and chambers when required.

## 11. Notification periods

Where the Other Parties or Contractors works or the movement of plant or equipment may endanger Vodafone apparatus, the Other Party or Contractor shall give **Vodafone at least 7 working days' notice in writing** of the intended date to commence operations.

No excavation should be made without first consulting the relevant Vodafone apparatus layout drawings, which will be made available from the Vodafone agent Atkins Global on request and allowing 28 working days for processing the relevant drawings. However, should this not be possible, direct contact should be made to the Atkins Global Plant Enquiries Team as soon as possible to assess the situation.

When excavating, moving or backfilling (including use of Foamed Concrete for Reinstatements – FCR) around Vodafone apparatus, **Vodafone shall be given adequate prior written notice of the Other Parties or Contractors intentions, in order that the works may be adequately supervised.** Such notice shall not be less than **3 working days**.

## 12. Excavation and backfill

All excavations adjacent to Vodafone apparatus are to be carried out by hand until the extent and or location of the Vodafone apparatus is known.

Use of mechanical borers and / or excavators shall not be used without the supervisory presence of a Vodafone representative or a given exemption.

Shuttering of the excavation or support to Vodafone apparatus, at the Other Parties or Contractors expense, shall be used as directed by the Vodafone representative.

At least 7 working days' notice must be given to Vodafone in order that any special protective measures which may be required to protect Vodafone apparatus, at the Other Parties or Contractors expense, when equipment such as pile driving, explosives, laser cutting high powered RF equipment or RF test gear, is to be used in conjunction with the works.



Other Parties or Contractors are advised to refer to the National Joint Utilities Group publication: NJUG Volume 1- Guidelines on the Positioning and Colour Coding of Underground Utilities' Apparatus

## 13. Foam concrete

If foam concrete is being used as the backfill material, it shall not be used either above or within 500 mm of any Company Apparatus. A suitable material in accordance with the specification for the Reinstatement of Openings in Highways shall be substituted.

## 14. Attendance of Company Representative

If a situation requires the attendance on site of a Vodafone representative for a continuous period of more than 6 hours, suitable facilities shall be provided by the Other Party or Contractor, at their expense, to meet the office and ablution requirements. If a situation arises that requires urgent attention Vodafone will endeavour to attend site within 2 hours for all other occasions arising, 24 hours.

## 15. Damage reports

In the event of any damage whatsoever occurring to Vodafone apparatus, the Other Party or Contractor shall immediately inform Vodafone by contacting their 24/7 number , (for contact details please refer to Appendix A).

All relevant costs of any subsequent repair and / or removal of the Vodafone apparatus shall be charged to the Other Party or Contractor, irrespective of who affects the repair.

The above requirements do not relieve the Other Party or Contractor of any of their obligations under their contract.



## 16. Appendix A – Street Works Team Contacts for Vodafone

| Function                                                                                                                                    | Address                                                                                | Phone         | Email Address                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------|
| Streetworks Team                                                                                                                            | Vodafone, Street Works, Faraday House, Ground Floor, The Connection, Newbury, RG14 2FN | 0333 304 0759 | <a href="mailto:utilitiescentre@vodafone.com">utilitiescentre@vodafone.com</a>     |
| Customer Complaints                                                                                                                         | n/a                                                                                    | 0333 304 0762 | n/a                                                                                |
| Liability Claims<br>Or<br>Damage to<br>Vodafone Apparatus                                                                                   | Vodafone Damage Claims, 1-2 Berkeley Square, 99 Berkeley Street Glasgow G3 7HR         | 0333 304 1104 | <a href="mailto:claims@vodafone.com">claims@vodafone.com</a>                       |
| Diversionary Works<br>C2/C3                                                                                                                 | Atkins Global, PO Box 290, 500 Aztec West, Almondsbury, Bristol, BS32 4RZ.             | 01454 662881  | <a href="mailto:osm.enquiries@atkinsglobal.com">osm.enquiries@atkinsglobal.com</a> |
| Diversionary Works<br>C4 / Escalations<br>Networks Manager                                                                                  | Vodafone, Diversionary Works, 1-2 Berkeley Square, 99 Berkeley Street Glasgow G3 7HR   | 0141 303 2855 | <a href="mailto:c3requests@vodafone.com">c3requests@vodafone.com</a>               |
| Emergencies<br>24 Hour – Defects & Faults                                                                                                   | n/a                                                                                    | 0333 304 0762 | n/a                                                                                |
| Vodafone Plant Enquiries includes:<br>Cable & Wireless;<br>Mercury Comms;<br>Thus plc; Scottish Telecoms; Your Comms; Norweb Comms; Energis | Atkins Global<br>PO Box 290<br>500 Aztec West,<br>Almondsbury,<br>Bristol,<br>BS32 4RZ | 01454 662881  | <a href="mailto:osm.enquiries@atkinsglobal.com">osm.enquiries@atkinsglobal.com</a> |



## 17. Appendix B – What constitutes Vodafone Network

Vodafone own fibre network dedicated to business and residential users of telecommunications and has an international cable network that provides connectivity to 153 countries, either directly or indirectly through partners, reaching across the Atlantic Ocean, through Europe and on to India and throughout Asia. Spanning approximately 500,000 km in length, including interests in more than 69 major global cable systems, our next-generation network improves the quality and performance of telecommunications services through our use of advance optical and IP transmission.

In the UK & Ireland Vodafone's overall network includes the following legacy networks now owned through acquisitions or Company name changes.

Below are examples of what you could see on the streets and should be aware of:



Cable & Wireless became Cable & Wireless Worldwide in 2010





Mercury Communications – changed its name to Cable & Wireless in 1996



Energis – was acquired by Cable Wireless in 2005





Thus plc was acquired by Cable & Wireless in 2008



## Scottish Telecom

Scottish Telecom demerged from its parent company Scottish Power to become Thus plc in 2002





# your communications

Your Communications was integrated into Thus plc in 2006



## NORWEB COMMS

Norweb Communications became Your Communications in 2000



Our apparatus is installed in roads and streets of UK and Ireland, however in some places is undistinguishable from other operators' apparatus, for example in City Centres where high quality infill modular paving chamber covers are found; some with labels and some without.

See below as examples:





The apparatus shown here is now owned, maintained and still in operation by Vodafone and includes.

Vodafone  
Cable & Wireless  
Mercury Communications  
Energis  
Thus plc  
Your Communications  
Norweb Communications  
Scottish Telecom

Please see the Contact Details in Appendix A for Plant Enquiries and help on site.

## 18. About this Document

### Content Owner

Chris Nesbitt

### Changes since last version

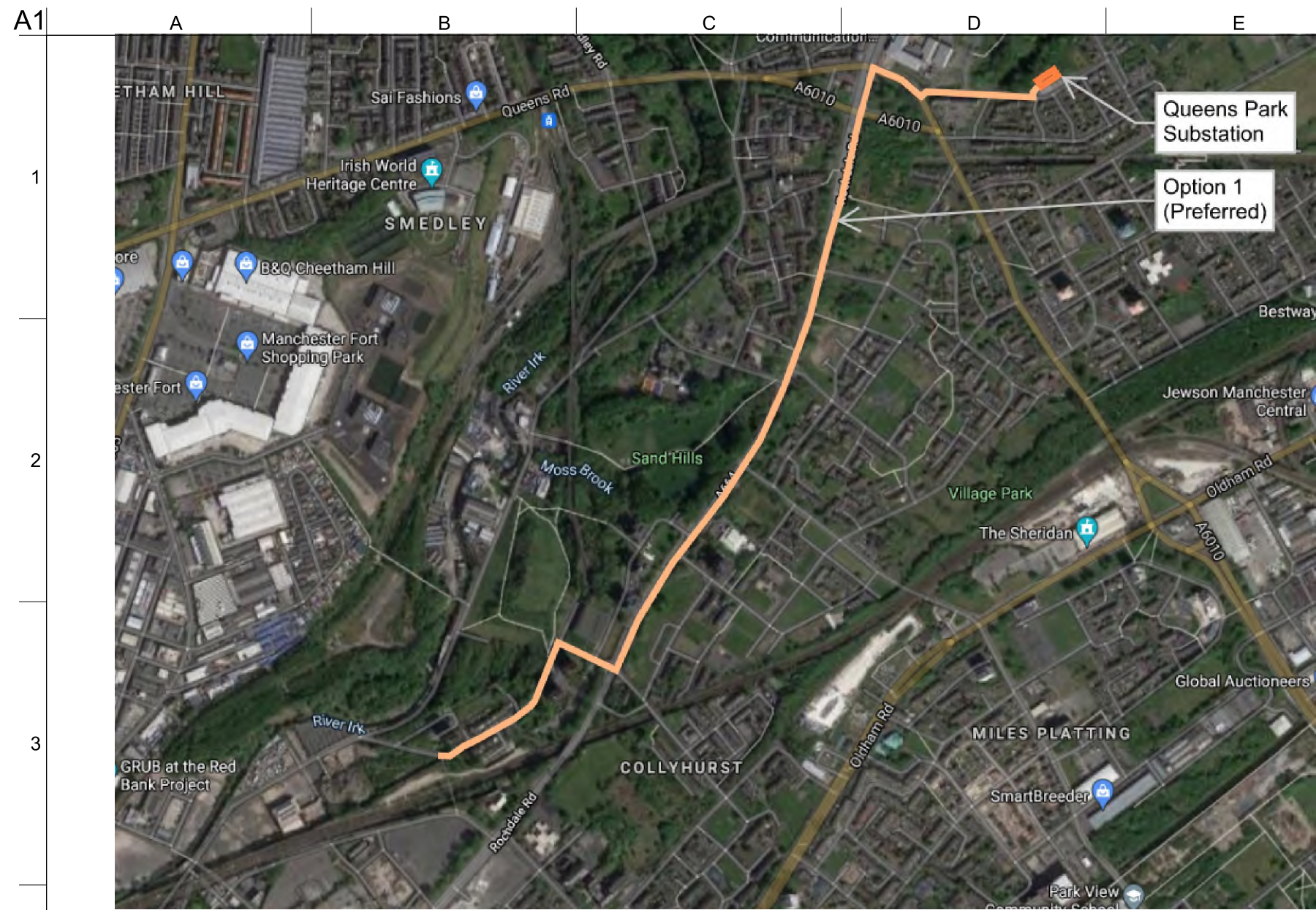
Reformatted using the current Vodafone template to include updated Contact Details .

End of Document

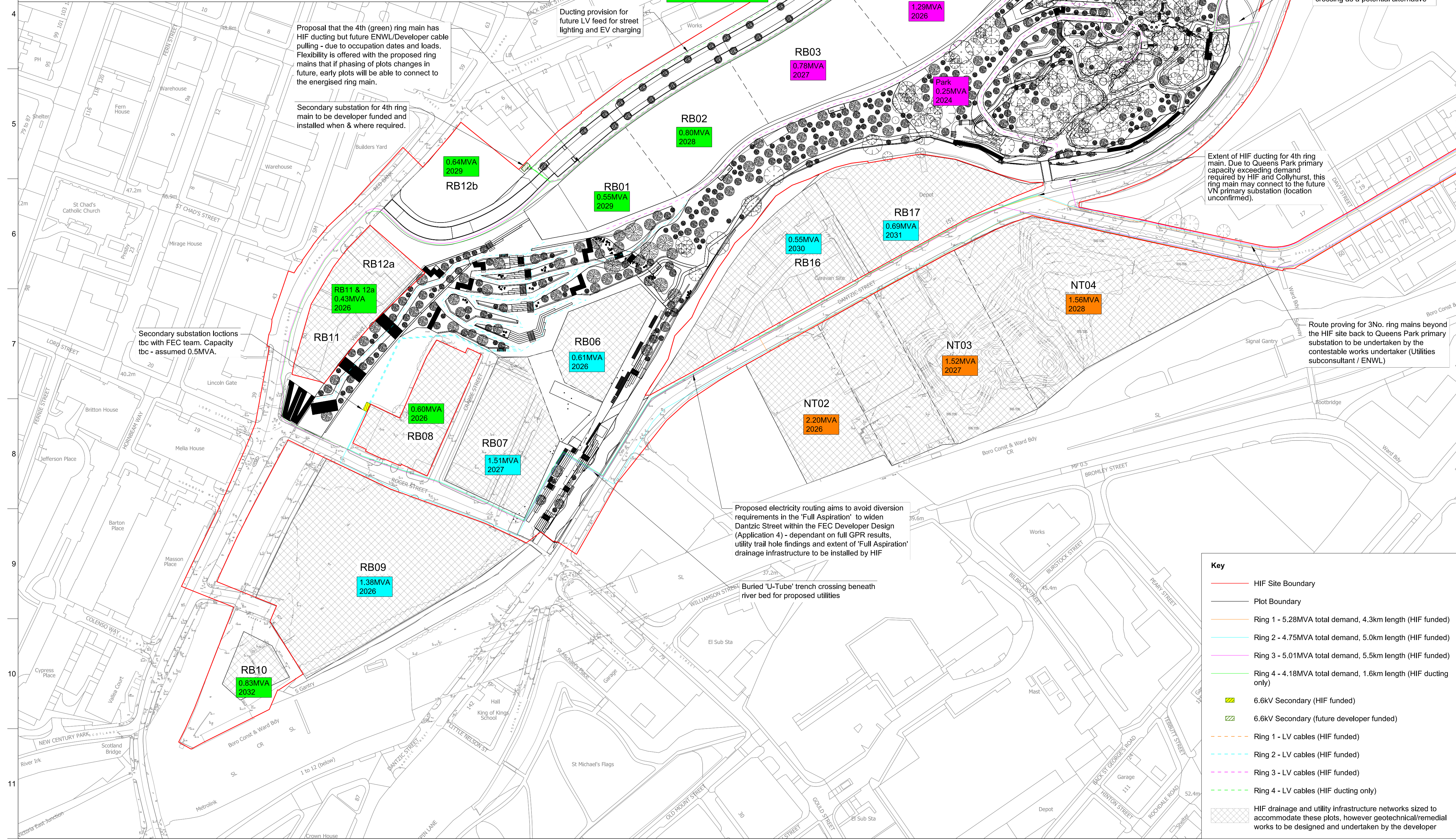
# Appendix C

---

HIF ELECTRICAL WORKS **wsp**



Extent of Street Works for HV Ring Mains to Queens Park Primary Substation  
Scale NTS



- Notes**
1. All dimensions are in mm, all levels in mAOD, unless specified otherwise.
  2. This drawing shall be read in conjunction with all relevant Engineer's drawing, specifications and reports.
  3. This map is reproduced from Ordnance Survey Material with the permission of the Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office (c) Crown Copyright. License Number 100019568 (2021).
  4. Layout is based on:
    - Landscape Architect masterplan drawing 2700-PLA-ZZ-YYY-DR-L-1011 Rev P02.06 dated 14/02/2022 by Planit.
    - Topographical Survey drawing PS-2158-TS by Paragon Surveys dated September 2021.
  5. Plot boundaries developed in conversations with FEC Winter 2021/2 - boundaries between adjacent plots are indicative only and are subject to changes as the FEC masterplan is developed.
  6. Utility demands have been calculated based on parking, residential and non-residential numbers, as per FEC's VN Housing Delivery Plan September 2021 v2 received 05-10-21. Occupation dates have been taken from v3 received 22-11-2021. Non-FEC third party plot details have been assumed from the Northern Gateway SRF.
  7. Extents of landscaping and new roads are based on WS3 designs.
  8. Geo-environmental and geotechnical assessments will address the areas within the red line boundary (excluding grey hatched developer plots).
  9. WS3 HIF Utilities design developed in conjunction with FEC team discussions.
  10. Due to H&S hazards associated with cables being energised far ahead of need, and the later plots likely requiring capacity from a future new primary substation, not all cables and ducting will be provided by HIF. This strategy has been developed in discussion with ENWL.
  11. HV and LV to be ducted, due to HIF programme constraints.
  12. Future plot connections to the HIF network are to be undertaken by developer.

| Rev | Date     | Description          | By | Chkd | Appd | Auth |
|-----|----------|----------------------|----|------|------|------|
| P01 | 26/08/21 |                      | AS | AS   | AS   | ---  |
| P02 | 17/12/21 |                      | EC | RG   | RG   | ---  |
| P03 | 01/02/22 |                      | EC | EC   | RG   | ---  |
| P04 | 18/02/22 | Amended for planning | EC | RG   | RG   | ---  |

**ARUP**

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Manchester M1 3BN  
Tel +44 161 228 2331 Fax +44 161 228 6879  
www.arup.com

Client



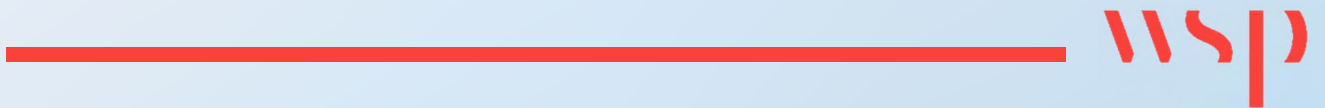
Project Title  
**Victoria North HIF Infrastructure & Enabling Works**

Drawing Title  
**Proposed Electrical Demands & 6.6kV Circuits**

|                                        |            |                                    |          |             |          |           |          |
|----------------------------------------|------------|------------------------------------|----------|-------------|----------|-----------|----------|
| Scale at A1                            |            | 1:1250                             |          | Arup Job No |          | 282022-00 |          |
| Role                                   |            | Consultant for Utilities           |          |             |          |           |          |
| Suitability                            |            | S3 - Issued for Review and Comment |          |             |          |           |          |
| Rev                                    | By         | EC                                 | Chkd     | RG          | Appd     | RG        | —        |
|                                        | P04        | Date                               | 18/02/22 | Date        | 18/02/22 | Date      | 18/02/22 |
|                                        |            | —                                  |          |             |          |           |          |
| Name                                   |            |                                    |          |             |          |           |          |
| VNIF - ARP - 00 - YYY - DR - CU - 1002 |            |                                    |          |             |          |           |          |
| Project                                | Originator | Volume                             | Location | Type        | Role     | Number    |          |

# Appendix D

PLOTS NT02, NT03 AND NT03  
UTILITIES PLAN

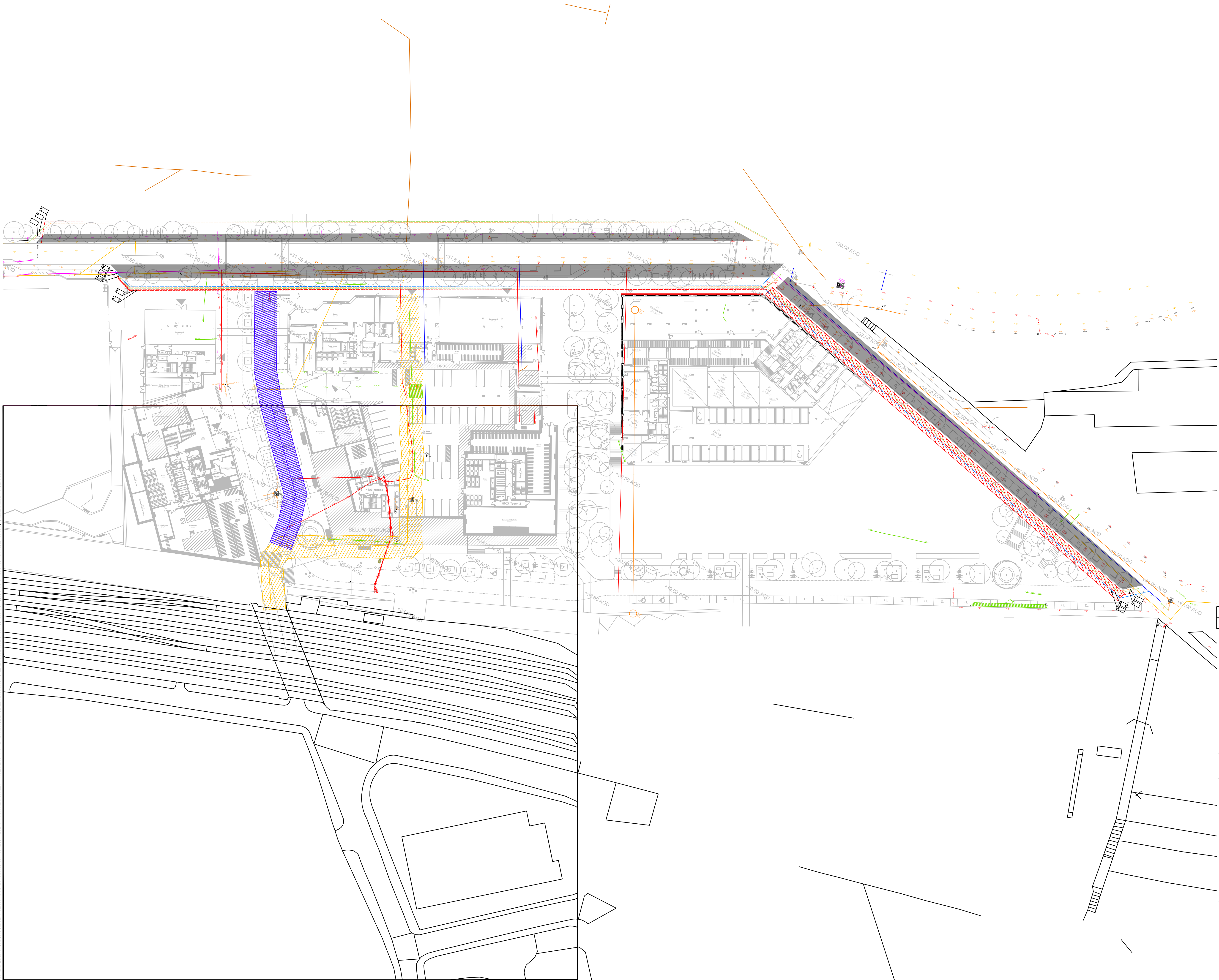


DO NOT SCALE

KEY EXISTING UTILITIES :  
ELE T-JUNCTION WITH WE T  
A ENT A  
NITE TILTING EWE  
NITE TILTING WATE  
TELE M

KEY PROPOSED UTILITIES :  
TENTENTIAL F T A ENT A MAIN  
ELE T-JUNCTION WITH WE T A LIN HV  
NITE TILTING WATE MAIN  
NITE TILTING EWE  
TELE M

EXISTING MAIN ELEMENT  
NEW MAIN ELEMENT PROPOSED  
EXISTING TILTING EWE



|     |      |    |             |    |    |
|-----|------|----|-------------|----|----|
| 1   | /    | /  | FILE        | SM | SM |
| REV | DATE | BY | DESCRIPTION | HW | HA |

DRAWING STATUS: S2 - FOR INFORMATION

8 First Street, Manchester, M15 5GU, UK  
T+ 44 (0) 161 200 5000  
wsp.com

CLIENT: FEC  
ARCHITECT: MLM  
SITE/PROJECT:

RED BANK AND DANTZIC STREET

PROPOSED UTILITIES & EXISTING  
UTILITIES DIVERSION PLAN  
(NT02, NT03 & NT04)

SCALE @ A1: 1:1000  
PROJECT NO: 70079268  
DRAWING NO: 70079268  
CHECKED: SM  
DESIGNED: UB  
DRAWN: UB  
DATE: March 23  
APPROVED: SM  
REV: P01

RDB-WSP-00-XX-DR-CV-0019

c WSP UK Ltd

File name: \\UK.WSPGROUP\COMMON\DATA\PROJECTS\70079268- RED BANK & DANTZIC STREET (MASTER PLAN)\3 WPDOR DRAINAGE ENGINEERING\DRAWINGS\UTILITIES\NT02-DR-CV-0019.DWG, printed on 28 March 2023 10:15:13, by Muhammad Bano, Umar Bano



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