

Equipment Information					
Equipment	Manufacturer	Model	Serial Number	MKS REF	Date of Calibration
EML Tx Transmitter	GPR Radiodetection	RE8000	10714-108-021	RD10	23/03/2024
EML Rx Receiver	GPR Radiodetection	RE8000	1080704-108-001	RD10	23/03/2024
GPR	CGS Geoscan	QEMERA QUGO	5N 016-0510-102	GPB8	20/06/2024
GPS15	Leica Geosystems	25NTH10	1753802	QMS228	N/A

DETECTION SURVEY REPORT

GENERAL

This survey was carried out in accordance with PAS 128:2022 (Publicly Available Specification from BS) by an experienced surveyors/surveyers, qualified to a minimum of GC Level 3. After a pre-survey consultation with the client it was agreed to carry out the detection survey using methodology M1 as per Table 2 of the PAS 128:2022. The survey boundary has been shown on the drawing, please see triangle section of the key for reference.

DESKTOP UTILITY REPORT

Prior to the survey commencing record information was gathered and compiled in a separate desktop utility report. This report should be read in conjunction with the information contained in this utility detection survey. Record information was at the time of the survey the most recent available in accordance with the requirements of the PAS 128:2022. For a full list of the providers searched, records received and the dates the information was obtained, please refer to the attachments page of the desktop utility report.

DETECTION SURVEY

DRAINAGE
Underground drains were traced with pipe sizes and invert levels recorded from surface level, no allowance has been made for confined space entry unless otherwise stated. Wherever possible the chamber sizes have been recorded and positioned on the drawing. All connections from gullies, external rainwater pipes and external soil stacks have been proven wherever possible into manholes and sewer runs by radio sonic location and/or GPR. Where a saddle connection is present the position is assumed only until proven to Q2 or above. In instances where other detection methods were unsuccessful connections between manholes have been assumed to be straight and labelled as Q24. All drainage should be cross checked in critical areas by CCTV survey or verification survey type A.

The Severn Trent Water sewerage system was located as per the records drawing. Additional highway drainage systems were located on either side of Leicester Road as shown on the survey drawing. The sewerage run on the south-eastern side of Leicester Road was found to flow northwards, down the hill. Note, however, that we were unable to trace this downhill to its full extent due to encountering an obstruction. There is also a headwall flowing into the west of Shilton Road. The pipe upstream of the headwall could not be traced as the route is buried under a hedge. It could be possible that the surface water route found to the west of Leicester Road could flow in this way to the headwall on Shilton Road. It is recommended that trial excavations be undertaken, prior to any works, to confirm the presence or not of a drainage run in critical areas along the western side of Leicester Road and Shilton Road.

WATER
Water was located utilising EML and GPR methods to quality level Q2, where GPR results confirmed EML findings the quality level has been increased to Q1. Where records show water to exist but we were unable to locate it, the record information has been transcribed to the drawing to quality level Q24. Recommend trial excavations to confirm depth and position in critical areas.

GAS
The gas main routes shown upon the record drawings could not be located and have been transcribed to the drawing from the record information to quality level Q24. Service records received are shown as assumed routes directly from the main to quality level Q24. Recommend trial excavations to confirm depth and position in critical areas.

ELECTRICITY
Underground cables were located utilising EML and GPR methods to quality level Q2, where GPR results confirmed EML findings the quality level has been increased to Q1. Where records show cables to exist but we were unable to locate them, the record information has been transcribed to the drawing to quality level Q24. Recommend trial excavations to confirm depth and position in critical areas.

TELECOM
Telecom ducts have been traced with depths recorded. Due to laws protecting British Telecom apparatus all ducts have been located using remote detection techniques only and compared with record information. Chamber sizes have been recorded using GPR techniques wherever possible. For further information regarding BT apparatus please contact Openreach directly.

CATV
CATV was located utilising EML and GPR methods to quality level Q2, where GPR results confirmed EML findings the quality level has been increased to Q1. Where records show CATV cables to exist but we were unable to locate them, the record information has been transcribed to the drawing to quality level Q24. This is the case with the cable route shown running from Leicester Road onto Shilton Road. The first cable pit on Shilton Road was filled and was found to contain a single cable. No signal could be induced and traced onto this cable. It is recommended that trial excavations be undertaken, prior to any works, to confirm the location of this cable in any critical areas.

UNKNOWN
Unknown targets identified on the drawing using GPR are classified as 'non-linear targets'. These are not consistent with what we expect to see when identifying a buried utility, and appear on the drawing as single targets with depths (i.e. not string line or more depth readings). This does not mean they are not utilities, we are just unable to positively identify them as a utility. We would strongly recommend that further verification surveys (PAS 128:2022 survey type A) are carried out to identify these targets in critical areas.

SEE CAUTIONARY NOTES WITHIN THE UTILITY KEY

Desktop Utility Records		
Utility Type	Provider Details	Date Acquired
Drainage	Severn Trent Water	05/06/2024
Water	Severn Trent Water	05/06/2024
Gas	CGS	05/06/2024
Electricity	National Grid Electricity Distribution	05/06/2024
Telecom	Openreach	05/06/2024
CATV	Virgin Media	05/06/2024
Communications	BT/BT Telecommunications	05/06/2024
Communications	Mail Data	05/06/2024
Telecoms & Pipelines	Lineworks/UtilityCity	05/06/2024

Survey Information	
Fieldwork dates	19/06 20/06 21/06 22/06 23/06 24/06 25/06 26/06 27/06 28/06 29/06 30/06 01/07 02/07 03/07 04/07 05/07 06/07 07/07 08/07 09/07 10/07 11/07 12/07 13/07 14/07 15/07 16/07 17/07 18/07 19/07 20/07 21/07 22/07 23/07 24/07 25/07 26/07 27/07 28/07 29/07 30/07 31/07 01/08 02/08 03/08 04/08 05/08 06/08 07/08 08/08 09/08 10/08 11/08 12/08 13/08 14/08 15/08 16/08 17/08 18/08 19/08 20/08 21/08 22/08 23/08 24/08 25/08 26/08 27/08 28/08 29/08 30/08 31/08 01/09 02/09 03/09 04/09 05/09 06/09 07/09 08/09 09/09 10/09 11/09 12/09 13/09 14/09 15/09 16/09 17/09 18/09 19/09 20/09 21/09 22/09 23/09 24/09 25/09 26/09 27/09 28/09 29/09 30/09 01/10 02/10 03/10 04/10 05/10 06/10 07/10 08/10 09/10 10/10 11/10 12/10 13/10 14/10 15/10 16/10 17/10 18/10 19/10 20/10 21/10 22/10 23/10 24/10 25/10 26/10 27/10 28/10 29/10 30/10 31/10 01/11 02/11 03/11 04/11 05/11 06/11 07/11 08/11 09/11 10/11 11/11 12/11 13/11 14/11 15/11 16/11 17/11 18/11 19/11 20/11 21/11 22/11 23/11 24/11 25/11 26/11 27/11 28/11 29/11 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Sheet Layout: (Not to Scale)

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DETECTION SURVEY REPORT

GENERAL

This report was prepared in accordance with PAS 126:2002 (Public Access Specifications from BS1) by an experienced surveyor/surveyors, qualified to a minimum of Q level grade 3. After a preliminary site visit, it was decided to carry out the detection survey using a Geophysics M11 as per part B2 of the PAS 126:2002. The survey boundary has been shown on the drawing; please see inline style section of the key for reference.

DESKTOP UTILITY REPORT

A desktop utility search and record information was gathered and compiled in a separate desktop utility report. This report should be read in conjunction with the information obtained from the geophysical survey. Record information was at the time of the survey the most recent available in accordance with the requirements of the PAS 126:2002. For a full list of the records used, please refer to the desktop utility report. The information was obtained from the attachments page of the desktop utility report.

DETECTION SURVEY

The following details were taken from the survey results:

Detection was filled with pipe sizes and entry levels observed directly from surface level, no allowances made for depth. All detected features are detailed on drawings. Wherever possible, all underground chamber sizes have been recorded and positioned on the drawing. All connections from mains services to buildings or other structures have been noted. In addition, where applicable, all manholes and sewer runs by radio sound location and/or auger. Where a saddle or crossing was found, the position of the saddle or crossing was noted. In instances where other detection methods were unsuccessful, correlations between manholes have been assumed to be straight and labelled as QA. All drainage should be cross checked in critical areas for CCTV survey or verification survey type A.

The Severn Trent Water sewerage system was located as per the records drawing. Additional flowage drainage systems were located on either side of Leicester Road as shown on the survey drawing. The main drain run on the southwesterly side of Leicester Road was found to flow northwards, down the hill. Note, however, that we were unable to trace this drain further than its junction with the main drain. It could be possible that the drain flows into a ditch to the west of Shilton Road. The pipe appearance of the headwall could be traced through the route to be buried under a hedge. It could be possible that the surface water drains off the west of Leicester Road could flow all the way to the headwall on Shilton Road. It is recommended that further investigation, prior to any works, to confirm the presence or not of a drainage run in critical areas along the western side of Leicester Road and Shilton Road.

WATER

We were unable to detect any water. The quality level was GBT. Where records show water to exist but we were unable to locate them, the record information has been transcribed to the drawing to quality level QA. Recommend trial excavations to confirm depth and position in critical areas.

GAS

The gas main routes shown upon the record drawings could not be located and have been transcribed to the drawing to quality level QA. Records indicate that there may be gas mains unless located are shown as assumed routes directly from the main to quality level QA. Recommend trial excavations to confirm depth and position in critical areas.

ELECTRICITY

Electric cables were located utilising EML and GPR methods to quality level QBZ, where GPR records were used to confirm the location of the cable. Where records show cables to exist but we were unable to locate them, the record information has been transcribed to the drawing to quality level QA. Recommend trial excavations to confirm depth and position in critical areas.

TELECOM

All records have been traced with depths recorded. Due to laws protecting British Telecom apparatus all data have been located using non-invasive detection techniques only and compared to the records. The quality level has been increased to QB1. Where records show apparatus for further information regarding BT permits please contact BT Openreach directly.

CATV

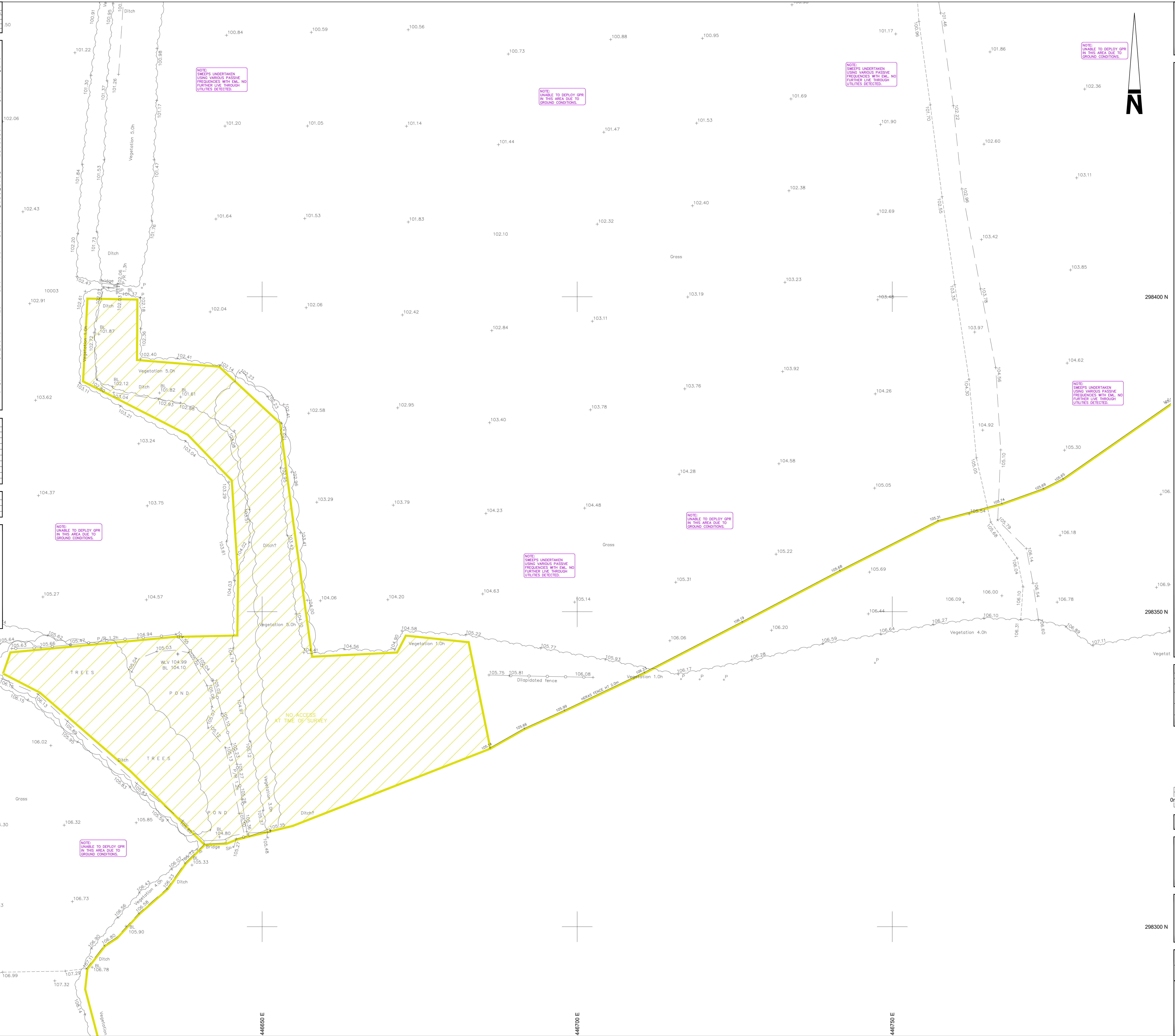
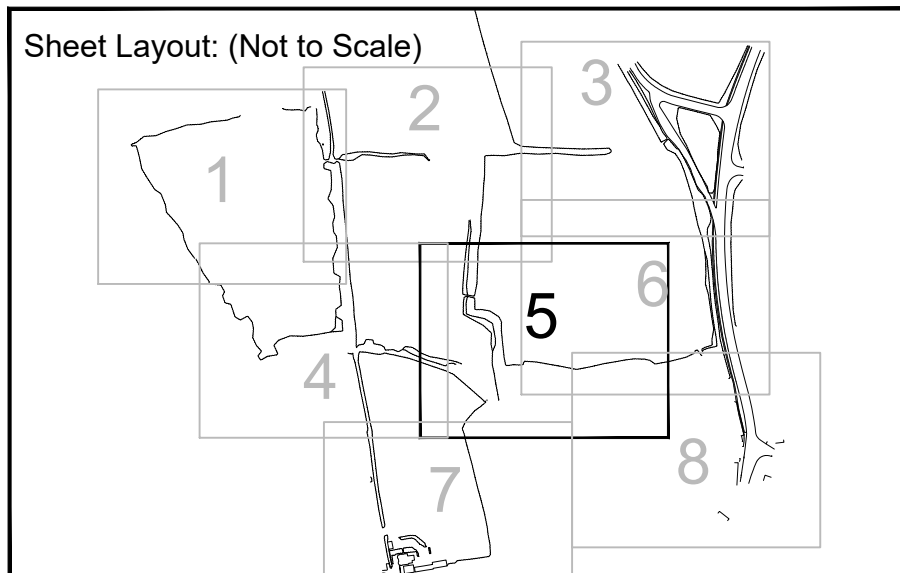
Cable TV was located utilising EML and GPR methods to quality level QBZ, where GPR records were used to confirm the location of the cable. Where records show cables to exist but we were unable to locate them, the record information has been transcribed to the drawing to quality level QA. Recommend trial excavations to confirm depth and position in critical areas.

UNKNOWN

Some unknown targets identified on the drawing using GPR are classified as "non-linear" and "non-point" targets. These types of target are more difficult to identify a buried utility and appear on the drawing as single targets with depths (in, not listing two or three dimensions). These types of target are often caused by debris or other objects lying on the ground as they pass over the target. We would strongly recommend that further verification surveys (PAS 126:2002 survey type A) be carried out to identify these targets in critical areas.

SEE CAUTIONARY NOTES WITH THE KEY

Desktop Utility Records		
Utility Type	Provider Details	Date Acquired
Water	Severn Trent Water	09/08/2004
Gas	CGO	09/08/2004
Electricity	Openreach Directing Distribution	09/08/2004
Telecom	Openreach	09/08/2004
CableTV	Vipri Media	09/08/2004
Communications	BIS&P Interconnectivity	09/08/2004
Fibre Optics	Interconnectivity	09/08/2004
Fibres & Pipelines	Interconnectivity	09/08/2004

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