



- UNDERGROUND SERVICES**
- 1) Although every effort has been made to trace underground services using radiodetection, no guarantee can be given that all have been found. Due to their non-conductivity it may not be possible to trace certain types of plastic service pipes, eg. Gas & Water. Service trial holes must be dug prior to excavation.
 - 2) In the absence of evidence to the contrary the routes of confirmed manhole connections are assumed to be direct and straight.
 - 3) This survey has been carried out in accordance with the RICS specification for tracing underground utilities at scales of 1:500 & larger.
 - 4) Underground service information should be read in conjunction with latest statutory drawings.
 - 5) Please note that it is illegal to lift telecommunications covers in public areas. Their routes can be ascertained by contacting the relevant statutory authorities. Broken or damaged manholes were not lifted by Utilimap Limited. It is not possible to trace plastic pipes by radiodetection e.g. Gas/Water or fibre optic cables or pipes of less than 100mm in diameter. The electronic detection of pipework will apply to live metallic pipes/cables that we can induce a signal to. As an alternative GPR techniques can be employed at additional cost in attempt to locate services not detectable by radiodetection. All tracing is subject to retrieval of clear signals.

GPR REFLECTIONS

GROUND RADAR

The material surrounding and particularly above buried services can effect whether the services can be resolved using GPR. Reinforced concrete, buried metallic objects, the presence of moisture or clay and changes in the material construction can lead to poor data resolution.

As we have no information with respect to the material overlaying any services the GPR method can only give a guaranteed accuracy of 50% Depth, results using GPR are typically accurate to within 10% with a horizontal accuracy of 150mm. These figures will vary as the velocity of the ground is assumed at 80m/s. The results of the GPR survey should be treated with caution as there is no guarantee that any service shown actually exists, only a possibility that something can be seen on the records.

- NOTES**
- THE SIZE AND LOCATION OF SERVICES SHOWN ON THIS DRAWING ARE INDICATIVE ONLY AND SHOULD BE CONFIRMED ON SITE PRIOR TO ANY EXCAVATION WORKS.
 - MULTIPLE CABLE LINES ARE GRAPHICAL REPRESENTATION OF OVERALL THICKNESS - DO NOT COUNT.
 - ALL GIVEN DEPTHS ARE TO THE CENTRE OF THE UTILITY AND ARE RELATIVE TO GROUND LEVEL AT THE TIME OF SURVEY.
 - TELECOMMUNICATION CABLES HAVE BEEN LOCATED EITHER BY PASSIVE MODES, INDUCED TRANSMITTER/RECEIVER MODES AND OR BY THE USE OF GPR.
 - BT SHOULD BE CONTACTED PRIOR TO ANY WORKS IN ACCORDANCE TO BT LEGISLATION.
 - EVERY EFFORT HAS BEEN MADE BY UTILIMAP LTD TO PROVIDE ACCURATE INFORMATION, THOUGH, ALL SERVICES, LEVELS AND CRITICAL DIMENSIONS SHOULD BE FIELD VERIFIED BY THE CLIENT BEFORE UNDERTAKING ANY WORKS.
 - PLEASE CONTACT UTILIMAP LTD, TO CONFIRM THAT THE LATEST REVISION IS BEING USED.
 - ANY QUESTIONS PLEASE CONTACT UTILIMAP LTD.

KEY

BT	BRITISH TELECOM
CTV	CABLE TELEVISION
CC	CLOSED CIRCUIT TV
CD	DATA COMMUNICATIONS
MD	MULTI DUCT
TM	TRAFFIC MANAGEMENT
HV	HIGH VOLTAGE
PWR	POWER
GA	GAS
HP	HEATING PIPES
OL	OIL
WT	WATER
FW	FOUL WATER
SW	STORM WATER
DM	UNKNOWN DRAINAGE
PM	PUMPING MAIN
GPR	RADAR LOCATE
RL	RADIO LOCATE
UN	UNKNOWN
ET	END OF TRACE
RS	ROD STOPPED
UT	UNABLE TO TRACE FURTHER
TR	TRAP
SC	SEWER CAPPED
SA	SURVEY ABANDONED

ABBREVIATIONS

(AR) Assumed Route	BL Base Level
BH Bore Hole	d Depth
MW Monitoring Well	NFI No Further Information
(OSA) Out of Survey Area	RWP Rain Water Pipe
SL Silt Level	SOF Soffit Level
SP Soil Pipe	(S) Sounded
SA Survey Abandoned	(TFR) Taken From Records
UTL Unable to Locate	UTR Unable to Raise
UTS Unable to Survey	(WS) Weak Signal

<input type="checkbox"/> LOCAL DATUM:	<input type="checkbox"/> NORTH INDICATIVE ONLY
<input type="checkbox"/> GPS OS DATUM:	<input type="checkbox"/>
<input type="checkbox"/> PREVIOUS SURVEY:	<input type="checkbox"/>
<input type="checkbox"/> GRID:	<input type="checkbox"/>
<input type="checkbox"/> LOCAL & ARBITRARY:	<input type="checkbox"/>
<input type="checkbox"/> GPS OS GRID:	<input type="checkbox"/>
<input type="checkbox"/> PREVIOUS SURVEY:	<input type="checkbox"/>

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- Utility Mapping Surveys
- Topographical Surveys
- Cross Section Surveys
- CCTV Drainage Surveys

Client

CARDIFF CAERDYDD

Title
NEW PENN PUB, LLANEDERYN UTILITY SURVEY

REVISION HISTORY

REV	ISSUE DATE	EXPIRY DATE	DRAWING CHANGE
R1	26.11.2021	26.11.2022	UTILITY SURVEY
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Original Scale:	Dimension In:	Drawn:	Checked:
1:200 @ A1	m	RN	SW
Levels:	m	Date: NOV 2021	Date: NOV 2021
Depths:	m		
Drawing Number:	Rev		
ACAD-NEW-PENN-PUB-LLANEDERYN	R1		