

Drawing remains property of Utilimap Ltd until receipt of final payment.

## 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 been 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

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

with latest statutory drawings.

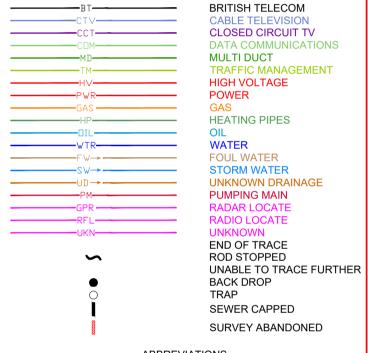
The material surrounding and particularly above buried services can effect whether the services can be resolved using GPR. Reinforced concrete, buried metallic objects, the presence of moisture or clay and changes in the material construction can lead to poor data resolution.

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 possibilty that something can seen on the records.

- 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.



## (AR) Assumed Route BH Bore Hole ANA Manifesian Wall

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

NORTH
INDICATIVE ONLY

BY
PREVIOUS SURVEY:

GRID

GRID

GRID

LOCAL & ARBITRARY: □
GPS OS GRID: ⊠
PREVIOUS SURVEY: □

APPROX.



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Utility Mapping SurveysTopographical SurveysCCTV Drainage Surveys

Client



**CAERDYDD** 

NEW PENN PUB, LLANEDERYN UTILITY SURVEY

REVISION HISTORY
EV ISSUE DATE EXPIRY DATE DRAWING CHANGE

 REV
 ISSUE DATE
 EXPIRY DATE
 DRAWING CHANGE

 R1
 26.11.2021
 26.11.2022
 UTILITY SURVEY

 - - - 

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Original Scale: Dimension In:
Levels: m
Depths: m
Date: NOV 2021 Date: NO

1:200 @ A1 Depths: m Date: NOV 2021 Date: NOV 2021

Drawing Number: Rev

ACAD-NEW-PENN-PUB-LLANEDERYN R1