



ABOUT SURVEYS

Any construction site is likely to be affected by the presence of existing utilities. Having the utility asset maps available is essential. However, having a utility survey completed before any work commences is required to comply with relevant legislation.

OVERVIEW

Premier Energy's survey team use the latest equipment and techniques, such as Electro Magnetic Locators (EML) and Ground Penetrating Radar (GPR) to trace and map the locations of buried utility assets produce a Utility Information Drawing in DWG AutoCAD and PDF format. This enables you to minimise the risk of damage to existing utilities and avoiding possible injury to construction personnel.

WHY CHOOSE US?

Our survey team are PAS 128 compliant, qualified to ProQual Level 5 in Utility Mapping and Surveying and are classified as Senior Utility Mapping Surveyors by the Construction Skills Training Academy.

As well as tracing buried utility assets, the survey team can also identify service intakes, meter locations and meter numbers (to assist in disconnection later on in the project lifecycle).

We specialise in utility surveys only and therefore understand what we need as part of our Consultancy service and provide a high level of detail.

Our deliverable also assists our clients with CDM Regulations and HSG 47 compliance.

THE SURVEY

- Our Utility Search Premier service will obtain asset maps from the utilities
- Client to provide asset maps of private infrastructure within the site (if available)
- Client to provide topographical survey in DWG format
- Our experienced utility surveyors will identify assets on-site
- Electro Magnetic Location (EML) equipment will trace conducting lines e.g. metallic gas or water pipes and cables
- Ground Probing Radar (GPR) will be used to trace non-conducting services e.g. plastic pipes, PVC ducting, asbestos cement pipes etc., where ground conditions and size of service allow.
- Flexitrac/sondes used to trace smaller diameter ducts for telecoms cables
- A comprehensive plan of buried services within the survey boundary area is provided
- Drawings are issued in AutoCAD and PDF formats



BENEFITS

- ☺ Can provide a safer working environment
- ☺ Complies with Health & Safety legislation
- ☺ Helps avoid costly damage to utility infrastructure
- ☺ Assists in planning construction works to reduce utility costs
- ☺ Helps avoid delays by allowing you to plan and prepare

LIMITATIONS

- ☺ Be aware that surveys are not guaranteed to be 100% accurate unless verified at Quality Level A (exposed by trial hole or lifting a chamber lid).
- ☺ Weather, ground condition, diameter of assets, type of material, if cables "live or dead", congestion of assets, accessibility, other buried objects etc. all play a part in the accuracy and production of a plan.

FOR FURTHER INFORMATION OR TO TAKE THE NEXT STEPS, PLEASE CONTACT US

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PAS 128

As part of a suite of services we offer we can cover the requirements of PAS 128. Our Utility Search report provides Quality Level D whilst our Surveys team can offer Quality Level C, B and A.

CDM REGULATIONS

1st April 2015 Construction, Design and Management Regulations. The new rules require the Client and Principal Designer to deliver to the Contractor pre-contract information. Buried services, being a major health and safety risk, are no longer just the Contractor's responsibility to do proper utility discovery.

HEALTH AND SAFETY GUIDE NO. 47 (HSG47)

"Avoiding Danger from Underground Utilities", updated in 2014, now goes as far as to suggest that clients buy a utility report or use a searching system. This is because of the complexities of who owns which assets since deregulation. It goes on to give guidance on recording where contractors move plant.

The guidance also has recommendations for the use of locating devices in detecting buried services.

More can be expected when PAS 256 "Buried assets - Collection, recording and sharing of location information data" is finalised through the BSI.

POTENTIAL FOR PROSECUTION

All three of these regulations are tools that are likely to form key parts of any Health & Safety Executive prosecution in the event of any non-compliance that leads to an accident.

WHO ARE OUR CLIENTS?

- Developers, Local Government, Housing Associations
- Engineers - Highways, Transport, MEP Consultants
- Individuals looking to carry out works around utilities
- Anyone involved in the management, planning, design, modifying, construction and safety of projects who requires utility plans in an AutoCAD DWG format

PAS 128 QUALITY LEVELS (QL)

- 👉 **QL - D : Desktop Utility Search**
Where utilities are identified through the collation and analysis of existing paper/online asset maps
- 👉 **QL - C : Site Reconnaissance**
Where existing maps are supported and validated by a visual inspection of physical evidence observed during a site visit
- 👉 **QL - B : Detection**
Where existing utilities are detected and located by geophysical techniques (EML/GPR). Two methods of recording information, either directly on-site or through post-processing*.
- 👉 **QL - A : Verification**
Where utilities are observed and located in an inspection or manhole chamber or excavated and exposed through trial holes.

* Premier Energy carries out direct on-site recording only

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