



# PALM vs. Line Drawing

V3 - JAN 2018

## WHY PURCHASE A PREMIER ASSET LAYERED MAP (PALM)?

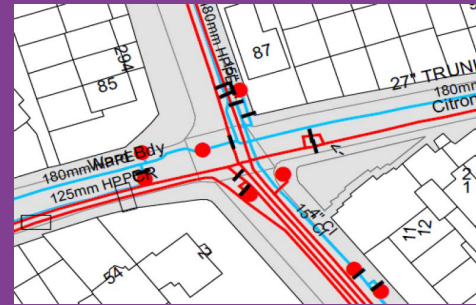
- There is a discussion to be had regarding the merits of the innovative PALM offered by Premier Energy over a standard CAD line drawing
- In this technical note P.E identifies three important considerations in deciding which to choose
- P.E have been utility consulting for over 22 years and understand the needs of different clients

### PALM:

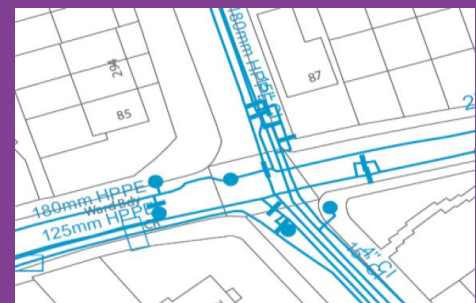
- Information is extracted from the original utility mapping record. Information includes pipe and cable routes, pipe sizes, pipe materials, chambers, substation details, flow arrow etc. including overhead and underground systems
- The PALM is delivered as an interactive PDF. This means anyone can view the PALM regardless of what operating system or software
- Each utility is shown on a separate layer that is easy to turn on or off. Other file formats are available on request

### LINE DRAWING:

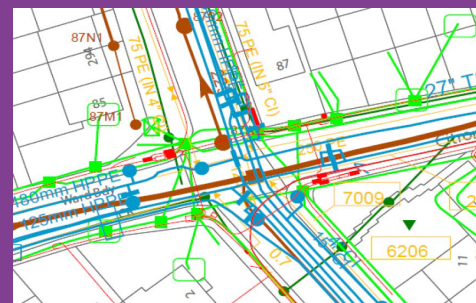
- Information is an interpretation of the record. It relies on an individual to look at one drawing and decide where to show it on another. This method introduces the potential for errors
- Information is just a single line that could be anything i.e. no differentiation for example between HP, IP, MP, LP Gas mains. In addition, unless highlighted from a full typographical survey, the overhead assets may not be shown
- Information is generally delivered in AutoCAD which requires specialist software and advanced user skills



Original Thames Water Record



Extract of water record



Extract of combined PALM record



## Testimonial

"We are very impressed with the quality of the PALM and how cost effective and comprehensive it is, and look forward to our next pieces of work with Premier. We think it takes visualising utility conflict to a new level."

**Capital Engineering Property & Infrastructure**

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## BENEFITS

### Reason 1

It is well known that utility records are indicative only. By using the PALM it is clear that the information is a copy of the original utility mapping data and cannot be confused later in the project lifecycle as.

- a) the actual position of assets OR
- b) surveyed data.

The avoids the potential of 'Professional' or 'Construction' insurance claims due to damaging the assets by relying on the line drawing.

### Reason 2

The information provided on details such as pipe size, material, etc., has a valuable part to play in identifying potentially costly mistakes associated with any construction project including:

- a) construction hazards b) clearance zones
- c) constraints on plans
- d) notifications to HSE e) potential capacity issues
- f) legal issues such as wayleave/easements
- g) lead time for works
- h) flow direction for drainage design
- i) identifying diversion requirement and potential costs

For example, knowing information such as the diameter, material and pressure of a gas mains highlights issues such as:

- 1) the potential easement width
- 2) how close any construction can be near a gas main
- 3) notifications to HSE
- 4) how long the lead time may be (the smaller the pipe and lower the pressure, the quicker the timescales for diversion will be)

### Reason 3

The PALM's compact PDF format is easy to distribute and can be viewed on any platform including tablets and smartphones. Each layer is assigned its own colour and can be turned on/off to easily isolate required information. The PALM is essential for - clients, designers, contractors', legal teams, planning teams, construction teams, back office staff, field staff and HSG 47 compliance.

## Summary

The PALM should be the starting point of any project when constructing commercial/residential or industrial buildings, highways works, utility works or specifying utility surveys using PAS 128. It is not intended to replace the original information contained in our Utility Searches Report, as this will include the original utility mapping records along with any further information that assists with identification and health and safety concerns of an asset, that are not extractable from the original format. If further guidance is needed, then please consult Premier Energy or the asset owner.

**To order a PALM or Utility Search visit our website or call to discuss your requirements**