

UTILITY SURVEY DRAWING KEY

Abbreviations and Symbols

EOT - End of trace	IBO - Internal back drop
UT - Unable to trace	EBD - External back drop
PT - Post of trace	CL - Cover level
ED - Empty duct	CRL - Crown level
(R) - Taken from records	IL - Invert level
(AR) - Assumed records	SL - Silt level
(V) - Verbal Information	SL - Surgeage level
UTL - Unable to lift	WL - Water level
Ø - Diameter	BL - Base level
Wd - Depth to water	UTR - Unable to rod
Sd - Depth to surcharge	UTS - Unable to survey
d - Electronically derived depth	FWS - Foul water sewer
Cd - Depth to crown	CWS - Combined water sewer
Id - Depth to invert	SWS - Surface water sewer
Sd - Depth to silt	GPR - Ground penetrating Radar

	TV	Cable TV
	HV	High Voltage
	LV	Low Voltage
	N	Electric Cable
	CCTV	Security Cable
	COM	Comms
	F	Fuel Line
	D	Empty Duct
	GL	Traffic Light Cable
	P	Gas
	GP	Oil Pipe
	U	British Telecom
	W	Unknown Trace
	W	Water
	F	Foul Water Sewer
	C	Combined Water Sewer
	S	Surface Water Sewer
	U	Utility Survey Extents
		Other


Chamber Extents


End of Trace

UTILITY SURVEY SITE NOTES

- GPR techniques have been used where possible to locate the water mains. Surface water at the time of the survey limited the effectiveness of this.
- Record information provide by the client indicates one spur from the main, site investigation indicates 2 could be present. Recommend trial excavations to investigate further.

Disclaimer

General Notes

Electro-magnetic techniques and/or ground penetrating radar have been used in the location of underground services. The results are not infallible and trial excavations should be carried out to confirm service identification, positions and depths. Although all reasonable practices have been undertaken to detect buried services, the information cannot be guaranteed. The methods of the survey does not differentiate between live and dead services, and as such all services should be treated as live. Where services are non-metallic, these would be located with GPR. However services are likely to go undetected, if they are smaller than 2 inches, or below 2 meters. Where we have been unable to trace a service, we may show an assumed route. This is not to be treated as exact.

Vertical & Horizontal Position

Vertical position (depth) is approximate to the trace. Drains may have been detected using a tracing wire, and the depth indicated could be between the bottom and top of the pipe. Horizontal position is indicative to the centre of the utility/service, and should not be taken as exact.

Warranty

Point marks may fade, no warranty is given in respect of the durability of the point marks. Therefore this drawing should be used as the primary reference for the survey results. This drawing does not provide an absolute representation of the sub-surface. Utilities have been detected using non invasive technologies only, and the performance can be adversely affected by ground, weather and site conditions. Therefore some utilities may be undetectable. While Landmark Surveys uses reasonable procedures to detect all utilities, it does not guarantee 100% detection will be achieved. Services at depths greater than 2m, will not be detectable.

Where a utility is shown on this drawing as a single line, this may represent multiple utilities. Where service records have been provided, Landmark Surveys will endeavor to match results in the field. However some results may coincidentally match a provided service location. This could result in false information being provided. Sewer and manhole details will be critical to the project design. Landmark Surveys would recommend that entry into the chamber be undertaken using a specialist team qualified for confined space entry.

Irrespective of the information provided by a utility survey and statutory plans, excavation work should be undertaken with extreme caution and in accordance with HSE guidelines - 'HSG47 Avoiding danger from Underground services'.

Ver. 2.9

REVISIONS/UPDATES & ASSOCIATED DETAILS

Dwg No	Details	By	Date
6000_R1	Line of water main updated after site visit	RL	14/07/20



THE SURVEY PEOPLE

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JOB TITLE

La Memo Kiosk,
Aberavon Seafront

SHEET SIZE & SCALE A1 @ 1:100	DATE SURVEYED July 2021
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DRAWING NUMBER 6000_R1	DRAWN BY RL
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CLIENT

Pebble Engineering