

OS NORTH / INDICATIVE ONLY

Underground Services Abbreviations

A	Approximate	IL	Invert Level
AC	Asbestos Cement	INT	Interceptor
BD	Back Drop	NVD	No Visible Ducts
BL	Base Level	NVP	No Visible Pipes
BR	Brick	NVE	No Visible Exit
CI	Cast Iron	OF	Offset Fill Point
CO	Concrete	OSA	Outside Survey Area
CP	Catch Pit	PE	Polyethylene Pipe
CPL	Catch Pit Base Level	PVC	Polyvinyle Plastic Compos
CR	Cable Riser	PR	Pipe Riser
d	Depth to Service (in metres)	PS	Poor Signal
DI	Ductile Iron	PT	Pea Trap
ED	Empty Duct	RM	Rising Main
EOT	End of Trace	SA	Soakaway
GPR	Ground Penetrating Radar	SN	Swan Neck
GRP	Glass Reinforced Plastic	SI	Spun (Grey) Iron
GR	Gas Riser	SL	Silt Level
HV	High Voltage	SS	Stainless Steel
HDPE	High Pressure Polyethylene	T	Tank
		UTF	Unable to Find
		UTGA	Unable to Gain Access
		UTR	Unable to Rod
		UTS	Unable to Survey
		UTT	Unable to Trace
		VC	Vitrified Clay
		VR	Vapour Recovery
		WL	Water Level
		WR	Water Riser

Chamber Extents

Unknown Chamber Extents

Radar Area Anomaly

Legend

—●—●—●—	Cable TV	—●—●—●—	Heating Pipe
—●—●—●—	Communications	—●—●—●—	LPG
—●—●—●—	Compressed Air	—●—●—●—	Offset Fill Pipe
—●—●—●—	Drainage – Combined	—●—●—●—	Oil Pipe
—●—●—●—	Drainage – Foul	—●—●—●—	Radar Trace
—●—●—●—	Drainage – Surface	—●—●—●—	Survey Boundary
—●—●—●—	Ducting	—●—●—●—	Telecoms
—●—●—●—	Ducting – Empty	—●—●—●—	Traffic Control
—●—●—●—	Earth Cable	—●—●—●—	Trench Scar
—●—●—●—	Electric	—●—●—●—	Unidentified
—●—●—●—	Electric – HV	—●—●—●—	Vapour Recovery
—●—●—●—	Fuel Pipe	—●—●—●—	Vent Pipe
—●—●—●—	Gas	—●—●—●—	Water
—●—●—●—	Fuel Guage Line		

PAS 128:2014 Quality & Confidence Levels

- (A) Horizontal and vertical position verified visually (Accuracy: Horizontal (±50 mm) Vertical (±25 mm))
- (B1) Horizontal and vertical location of the utility detected by multiple geophysical techniques used. (Estimated accuracy: ±150 mm or ±15% of detected depth whichever is greater).
- (B2) Horizontal and vertical location of the utility detected by one of the geophysical techniques used. (Estimated accuracy: ±250 mm or ±40% of detected depth whichever is greater).
- (B3) Horizontal location only of the utility detected by one of the geophysical techniques u (Estimated accuracy: Horizontal (±500 mm) Vertical – Undefined)
- (B4) A utility segment which is suspected to exist but has not been detected and is there shown as an assumed route. (Estimated accuracy: Undefined)
- (C) Route transcribed from utility asset plans and correlated to visual indicators and surf features. (Estimated accuracy: Undefined)
- (D) Route transcribed from utility asset plans (Estimated accuracy: Undefined)

NB: 'P' suffixed to the quality level indicates GPR data has been post-processed. QL(A) is infer at all Mf's & IC's unless otherwise stated.

Disclaimer

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Electromagnetic and Ground Penetrating Radar techniques combined with visual inspection have used to locate and map the underground services shown on this plan. Terra97 Ltd us reasonable efforts expected of experienced and qualified staff combined calibrated equipment perform our surveys; however, the completeness of any underground survey cannot be guarantee Depths are provided as a guide only. Services shown as QL(C), QL(D) or TFR (taken from rec and QL(B4) or AR (assumed route) have not been proven on site and are not guaranteed. Please note that not all buried pipes, utilities and features can be detected and mapped du conditions outside of our control, such as depth, location, material type, geology and proximit other services. It is recommended that trial holes are undertaken to confirm identification, loc and depth of services at critical locations.

Terra97 Ltd cannot be held responsible for any inaccuracies beyond those that could be reaso expected of a competent company. No utility mapping survey can be considered a 100% acci depiction of the sub-surface environment and the use of these drawings does not remove requirement for the use of safe digging techniques at all times in line with H5047. Inform contained within this survey should be used in conjunction with the accompanying Utility Si Report and Desktop Search.

Notes

The survey has been oriented to Ordnance Survey (OS) National Grid (OSGB36) using Industry Standard Network RTK GPS equipment utilising the OS Active Network (OS Net). A true OSGB36 coordinate has been established on site using the OSTN15 (transformation) & OSGB15 (geoid) models. The survey detail has been 75correlate this point and a further one (or more) OSGB36 points established to produce a true OS bearing for angle orientation. Scale factor 1.0 has been applied therefore the survey coordinates are shown on a pseudo OS grid.

All levels are in metres unless otherwise specified
All heights are in millimetres unless otherwise specified

2	-	-	-	-
1	-	-	-	-
0	-	-	-	-
Prelim	-	-	First Complete Issue	-
Rev	Svyr	QA Check	Preliminary - Not Complete	-
			Description	Date



PAS 128 Utility Mapping Surveys - Desktop Utility Record Searches - GPR Surveys & Post-Processing
Drainage Connectivity Surveys - Borehole Clearance Surveys - CCTV Drainage Surveys
High Pressure Water Jetting - Confined Space Entry - Concrete & Ferro Scanning

SURVEYED	DM
DRAWN	DM
SCALE	1:100

BATH ROAD, HEATHROW, UB7 0BZ

UTILITY MAPPING SURVEY

JOB No	DRAWING NUMBER
UM/223/0175	UM/223/0175/P/0001
A1 Sheet - 841mm X 594mm	