



OS NORTH

Topographical Abbreviations

BH	Borehole	GV	Gas Valve	RS	Road Sign
BOL	Bollard	IC	Inspection Cover	RWP	Rain Water Pipe
BT	British Telecom Cover	KO	Kettle Outlet	SC	Stop Cock
CATV	Cable TV Cover	LB	Litterbin	STA	Traverse Station
CCTV	Closed Circuit TV	LC	Lamp Column	SV	Stop Valve
CL	Cover Level	LP	Lamp Post	SVP	Sol Vent Pipe
CM	Cable Marker	MH	Manhole	TB	Telephone Box
DP	Down Pipe	MKR	Marker	TJB	Telephone Junction Box
EJB	Electricity Junction Box	MT	Mercury Telecom Cover	TPT	Trail Pit
EC	Electricity Cover	OHC	Overhead Cable	TL	Traffic Light
EP	Electricity Pole	OHF	Overhead Pipe	TP	Telephone Pole
ER	Earthing Rod	PB	Post Box	VP	Vent Pipe
PH	Fire Hydrant	RE	Road Eye	WM	Water Meter
G	Gully	RG	Road Gully	WV	Water Valve

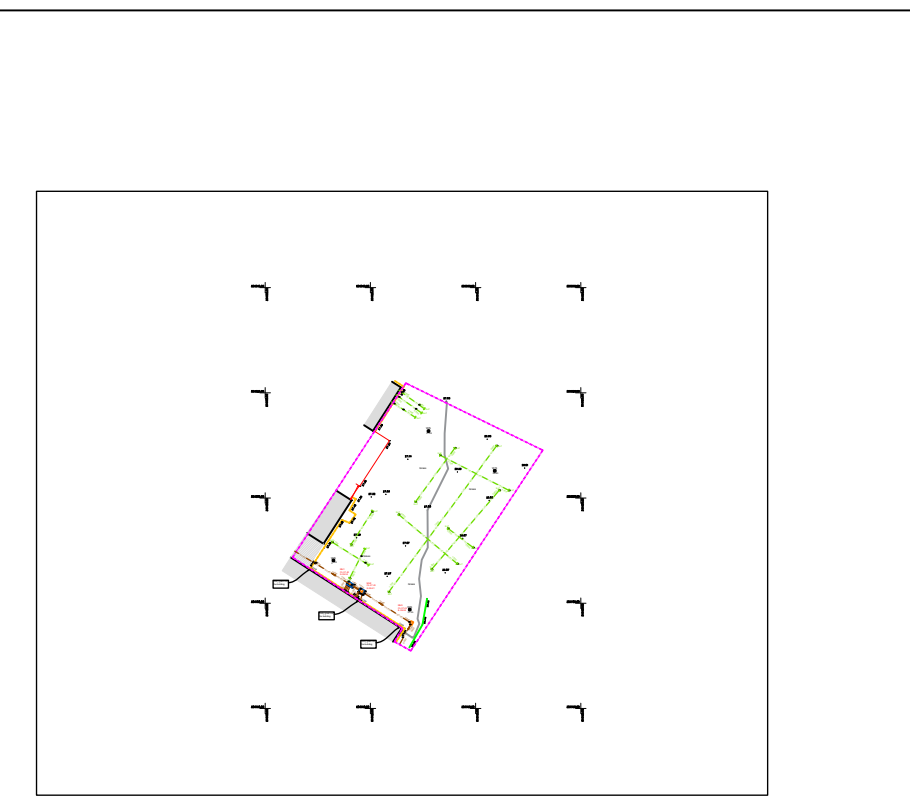
Underground Services Abbreviations

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

Utility Linetypes

Air (B1)	Comms (B1)	Ducting (B1)	GPR (B1)
Air (B1)	Comms (B1)	Ducting (B1)	GPR (B1)
Alarm (B1)	Combined (Drainage)	Earth (B1)	Vent Line (Fawl)
BT (B1)	Foul (Drainage)	Electric (LV)	Fuel
CATV	Storm (Drainage)	Electric (HV)	Gas
Guage Lines	Oil Pipe	Vapour Recovery	Offset Fill
Heating Pipes	Empty Duct	Vent Pipe	Undersified
H (B1)	ED (B1)	VP (B1)	H (B1)
LPS (B1)	Water Pipe	Multi Service Route	MSS (B1)
Survey Boundary	Text	Unable To Survey	Chamber Extents
Approx Location	Scar	Manhole	Fibre Optics

Chamber Extents	Unknown Chamber Extents	Radar Area Anomaly
Unable to Survey		



PAS 128-2014 Quality & Confidence Levels

- (A) Horizontal and vertical position verified visually (Accuracy: Horizontal (±20 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 ±45% of detected depth whichever is greater)
- (B3) Horizontal location only of the utility detected by one of the geophysical techniques used. (Estimated accuracy: Horizontal (±500 mm) Vertical: Undefined)
- (B4) A utility segment which is suspected to exist but has not been detected and is therefore shown as an assumed route. (Estimated accuracy: Undefined)
- (C) Route transcribed from utility asset plans and correlated to visual indicators and surface features. (Estimated accuracy: Undefined)
- (D) Route transcribed from utility asset plans (Estimated accuracy: Undefined)

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

Disclaimer

This drawing and information contained within is issued in confidence and is the copyright of Warner Surveys Utility Mapping Limited. If the topographical information or base mapping has been supplied by a third party, Warner Surveys Utility Mapping is not liable for any inaccuracies contained therein.

Electromagnetic and Ground Penetrating Radar techniques combined with visual inspection have been used to locate and map the underground services shown on this plan. Warner Surveys Utility Mapping Limited use all reasonable efforts expected of experienced and qualified staff combined calibrated equipment to perform our surveys, however, the completeness of any underground survey cannot be guaranteed.

Depths are provided as a guide only. Services shown as QL(C), QL(D) or TFR (taken from records) 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 due to conditions outside of our control, such as depth, location, material type, geology and proximity to other services. It is recommended that trial holes are undertaken to confirm identification, location and depth of services at critical locations.

Warner Surveys Utility Mapping Limited cannot be held responsible for any inaccuracies beyond those that could be reasonably expected of a competent company. No utility mapping survey can be considered a 100% accurate depiction of the sub-surface environment and the use of these drawings does not remove the requirement for the use of safe digging techniques at all times in the with HSG47. All information contained within this survey should be used in conjunction with the accompanying Utility Survey Report and Desktop Utility Search.

All depths taken with EML Methodology are taken to the CENTRE of the Utility.

All depths taken with GPR Methodology are taken to the TOP of the Target.

All depths taken to Drainage Pipes / Fire Pipes / Empty Ducts are taken to the BOTTOM (INVERT) of the pipe and the pipe / duct diameter must be taken into consideration when excavating.

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) & OSGB36 (grid) models. The survey detail has been correlated to this point and a further one (or more) OSGB36 points established to provide 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

Rev	Syst	QA Check	Description	Date
Prelim	-	-	Preliminary - Not Complete	-
0	GC	LL	First Complete Issue	13/02/2026
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-



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High Pressure Water Jetting · Confined Space Entry · Concrete & Fern Scanning

Surveyed	GC	Sports Labs
Drawn	GC	
Scale	1:200	

Mew Hutte 1TT

Utility Mapping Survey

JOB No	DRAWING NUMBER
UM/226/0026	UM/226/0026/P/0001
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