Key for underground services

- Foul/Combined water drain
- Foul/Combined drain 300Φ and above
- Surface water drain
- Surface water drain 300Φ and above
- Pumping main
- End of trace — EOT
- LV cables
- LV - non-commissioned
- HV cables
- EHV cables — EHV
- Band of electric cables
- Earthing strap — E
- Fuel oil pipework — FUEL OIL
- Gas low pressure
- Water
- Water - Raw/Borehole
- Water - Abandoned
- Telephone
- Speaker cabling — Spkr
- Multiuser ducts — MU
- End of trench scar — EOSc
- Unidentified
- GPR reflection — GPR
- Overhead service — o/h
- Characteristic change
- Survey Boundary
- Service annotations — (0.90) (EM depth) [0.90] (GPR depth)

Where chamber extents are significantly greater than the cover size, their approximate extents are shown thus;

Inaccessible areas, shown thus;

Inaccessible areas due to vegetation, shown thus;

Electric vehicle charging point, shown thus;

Sheet layout

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Inferred depth positions

Sewer/duct	Metallic service	GPR target
inline EM (1.20) at chamber 1.20d	inline EM (1.20) at chamber 1.20d	inline [1.20]

Abbreviations for underground services

AC	Asbestos cement	Mkr	Marker post
ALK	Alkathene	NFI	No further information
AV	Air valve	NL-A	Not located - route assumed
BD	Back drop	NL-I	Not located - route plotted from on-site information
BH	Bore hole	NL-R	Not located - route plotted from records
Br	Brick	NL-T	Not located - plotted from visible trench scar detail
BTIC	British Telecom inspection chamber	NRV	Non return valve
BTMH	British Telecom manhole	NS	No signal
CA	Compressed air	o/h	Overhead
CATV	Cable tv	PE	Polyethylene
CCTV	Closed circuit television	pe	Pot ended
CH	Coal hole	PR	Pipe riser
CI	Cast iron	PRV	Pressure reducing valve
CL	Cover level	PVC	Polyvinyl chloride
CM	Cable marker	RE	Rodding eye
CONC	Concrete	RG	Road gully
C/PIT	Catch pit	RS	Road sign
CU	Copper	RWP	Rain water pipe
CR	Cable riser	S/A	Soakaway
DB	Direct buried	SC	Stop cock
DI	Ductile iron	SE	Side entry
ECP	Electric cable pit	SI	Spun iron
EHV	Extra high voltage	SL	Soffit level
EJB	Electric joint box	SP	Soil pipe
EP	Electricity pole	ST	Steel
ER	Earthing rod	SV	Stop valve
ES	Earthing strap	SVP	Soil vent pipe
FH	Fire hydrant	SW	Sink waste
FL	Floor level	TCB	Telephone call box
Flt	Flood light	T/I	Trapped inlet
F/O	Fibre optic	T/O	Trapped outlet
FP	Feeder pillar	TP	Telephone pole
G	Gully	UST	Underground storage tank
GM	Gas meter	UTL	Unable to lift
GPR	Ground penetrating radar	UTF	Unable to find
GV	Gas valve	UTGA	Unable to gain access
HV	High voltage	UTR	Unable to rod
IC	Inspection chamber	UTS	Unable to survey
IL	Invert level	UTT	Unable to trace
Kv	Kilo volts	VC	Vitrified clay
LD	Land drain	VP	Vent pipe
LH	Lamp hole	WL	Water level
LP	Lamp post	WM	Water meter
LPG	Liquid petroleum gas	WO	Wash out
LV	Low voltage		
MDPE	Medium density polyethylene		
MH	Manhole		

Notes for underground services

I. A combination of electromagnetic techniques & ground penetrating radar have been used, as appropriate, in the location of underground services and drains. The results are not infallible and trial excavations should be carried out to confirm service identification, positions and particularly depths, where these are critical. Although all reasonable effort has been made in searching available record drawings, the completeness of the underground services information cannot be guaranteed.

II. Where no cover level is available, depths to pipe inverts are shown thus; IL 0.95d

III. Depths of services at inspection chambers, where possible, are shown thus; 0.95d

IV. Depths obtained electronically are generally to the centre of the service and are shown thus; (0.90)

V. Depths obtained by G.P.R. are generally to the crown of the service and are shown thus; [0.95]

VI. Number of duct ways, where known, shown thus; 2W

VII. Pipe sizes, which cannot be obtained by visual survey, are taken from record drawings/marker plates where available.

VIII. Cable routes shown as a single line may actually consist of many cables.

IX. Electric cable routes shown are assumed to be LV unless otherwise annotated.

X. Information taken from records is suffixed thus; (R)

XI. Drainage pipe sizes and invert levels have been determined without man-entry into chambers. Every effort has been made to correctly obtain this information, however, due to non-entry into chambers and if deemed project critical, this information should be verified before works commence.

XII. To assist with clarity of presentation, services and drains have been extended within buildings.

XIII. Three or more G.P.R. reflections are required to be shown as an assumed linear service.

REV NO	REV NOTE	DATE	SIGNED	CHECKED

Safecontractor Approved — CHAS Accredited Contractor — A member of The Survey Association

Type of survey

Topographical ☐ PAS 128 ☐ Drainage ☑ Services ☑

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Title Location of Underground Services and Drains Northcote Manor Langho, Blackburn

Surveyed	ISP/SB/RK	Date	August 2022
Drawn	ISP	Scale	1 : 100 @ A0
Checked	MPW		

Drawing No. 56405/03 Rev.

