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 EHV
Band of electric cables	
Earthing strap	E E
Fuel oil pipework	FUEL OIL
Gas low pressure	
Water	
Water - Raw/Borehole	
Water - Abandoned	
Telephone	
Speaker cabling	Spkr
Multiuser ducts	MU MU
End of trench scar	EOSc
Unidentified	
GPR reflection	GPR GPR
Overhead service	o/h o/h
Characteristic change	
Survey Boundary	
Service annotations	(0.90) (EM depth) [0.90] (GPR depth)

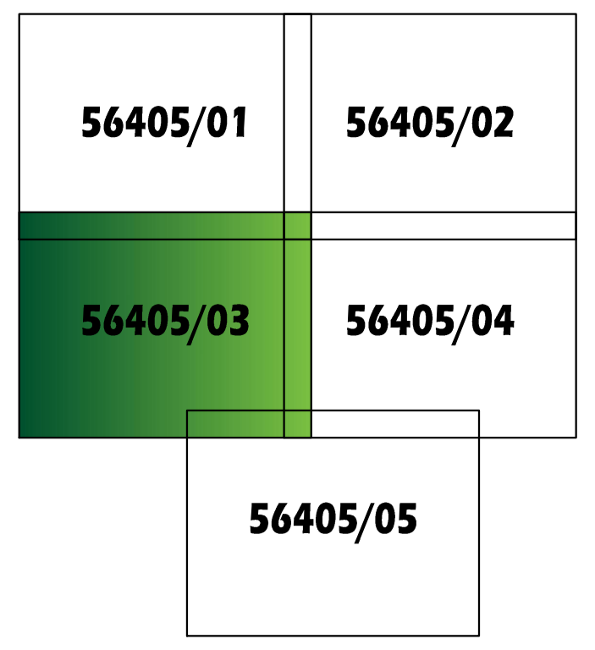
Where chamber extents are significantly greater than the cover size, their approximate extents are shown thus;

Inaccessible areas, shown thus;

Inaccessible areas due to vegetation, shown thus;

Electric vehicle charging point, shown thus;

Sheet layout



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

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; **(0.80)**

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

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A MEMBER OF THE THE SURVEY ASSOCIATION

Type of survey

Topographical ☐ PAS 128 ☐ Drainage ☑ Services ☑

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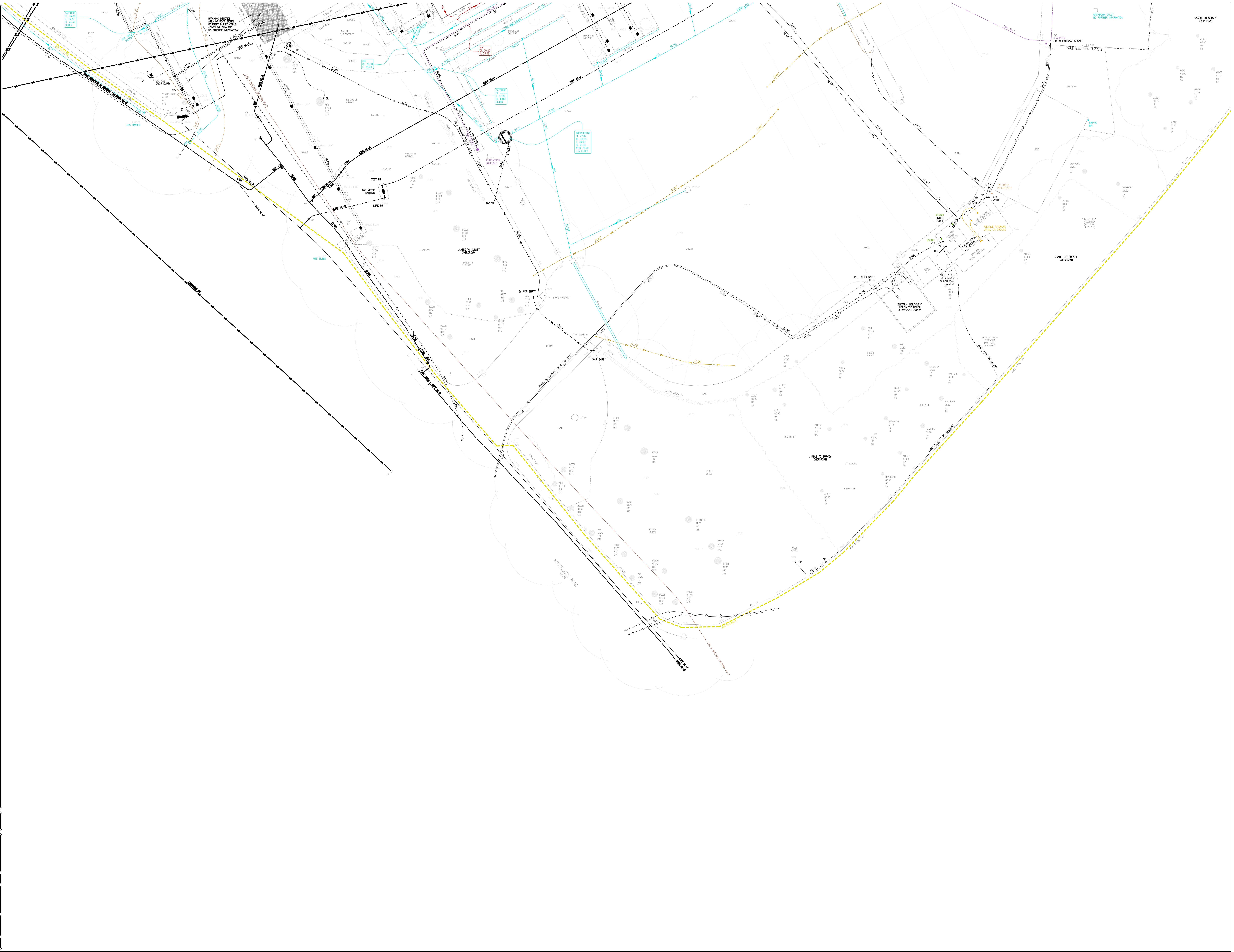
Client Box Associates Ltd

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

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

Drawing No. 56405/01
Rev.


HATCHING DENOTES AREA OF POOR SIGNAL POSSIBLY BURIED CABLE JOINTS OR CHAMBER. NO FURTHER INFORMATION.
FLOWERBED & SAPLINGS
STONE RW
63PE NL-R
1WCR EMPTY
CRs
CR
TARMAC
SIZE & MATERIAL UNKNOWN
CATCHPIT CL ---- IL 0.70d FL 1.10d SILTED
INTERCEPTOR CL 77.02 WL 76.00 IL 76.00 FL 74.40 WEIR 76.22 UTS FULLY
ABSTRACTION BOREHOLE
NL-A THROUGH BUSHES
LAUREL HEDGE
BOX GULLY
63PE NL-A
75PE NL-A
100 VP
GAS METER HOUSING
75ST PR
63PE PR
2x1WCR EMPTY
1WCR EMPTY
UNABLE TO SURVEY OVERGROWN
POT ENDED CABLE NL-R
ELECTRIC NORTHWEST NORTHCOTE MANOR SUBSTATION 452228
11Kv
CABLE LAYING ON GROUND TO EXTERNAL SOCKET
CABLE LAYING ON GROUND
FLEXIBLE PIPEWORK LAYING ON GROUND
FUEL OIL TANK CAPACITY UNKNOWN
BACK-UP DIESEL GENERATOR
CONSUMER METER CUPBOARD
CABLING WITHIN TRUNKING
CABLES ON TRAY
BIKE STORE
1W EMPTY INFILLED/UTS
CRs JOINT
ES/NFI 4xCRs 2xUTT
AREA OF DENSE VEGETATION (NOT FULLY SURVEYED)
CABLE ATTACHED TO FENCELINE
NORTHCOTE ROAD
STONE GATEPOST
LAWN
ROUGH GRASS