



SYMBOLS

TREE (S-AVERAGE CANOPY SPREAD RADIUS) (H-APPROX. HEIGHT)

BENCHMARK

STATION (WITH LEVEL)

BUILDING LINE (AT GROUND)

FENCELINE

GATE

HEDGE

LIMIT OF TREE CANOPY / BUSHES / SHRUBS

CB CLOSE BOARD
CL CHAIN LINK
CP CONC. PANE
IR RAILINGS OR PALLISADE
PVC POST & CHAIN
PR POST & RAIL
PW POST & WIRE
PAL PALINGS

ABBREVIATIONS

ACD "ACID" DRAINAGE CHANNEL
BPAV BLOCK PAVING
BBL BED-LEVEL
BBL BUILDING EAVES LEVEL
BIN LITTER-BIN
BRI BELLS
BT TELECOM IC
C-PAV CONCRETE PAVING (FLAG)
CB CONTRD.-BOX
CHAN CHANNEL (DRAIN)
CH CEILING HEIGHT
CL COVER-LEVEL
CDBS STONE COBBLES
CONC CONCRETE
CTV CABLE TV POINT/IC
EIC ELECTRIC IC
EP ELECTRIC-POLE
ER EARTH-ROD
FH FIRE HYDRANT
FL FLUO LIGHT
FL FLUO LEVEL
FP FLAG-PIPE
G GULLEY
GL GROUND-LEVEL
H HEIGHT (IN METRES)
HD HEAD
HPL HANDRAIL / SAFETY-RAIL
IL INVERT LEVEL
IC INSPECTION CHAMBER
IP INLET PIPE
IS INFORMATION SIGN
KD KERB-OUTLET
LB LETTER-BOX
LP LAMP-POST

MH MANHOLE
NP NAME-PLATE
NTL NTL COMMS. IC
DHE OVERHEAD ELECTRIC CABLE(S)
DFT OVERHEAD TELECOM CABLE(S)
DFT OUTLET OF DUTY-FALL PIPE
DSM ORDNANCE SURVEY BENCH-MARK
P POST
PV PIPE (VERTICAL)
PZ FRICTIONER (WITH GROUND-LEVEL)
RE RODDING-EYE
RS ROAD-SIGN
RWP RAINWATER PIPE
S-PAV STONE PAVING
SAP SAPLING
SB STONE-BOARD
SETTS STONE SETTS
ST STEP-STEP
SV STEP-VALVE
TAC TACTILE PAVING
TARMAC TARMAC
TBC TO BE CONFIRMED (ON-SITE)
TBM TEMPORARY BENCH-MARK
TEL TELECOM BOX (UTILITY RECORDS)
TFR TAKEN FROM
TL TRAFFIC LIGHT
TL THRESHOLD LEVEL
TP TELECOM POLE
UTL UNABLE TO LIFT
U/L UNUSABLE (GUTTT)
VP VENT-PIPE
VL WATER LEVEL
WM WATER METER
WV WATER VALVE

UNDERGROUND UTILITIES LEGEND & NOTES

LE ELECTRIC
FW FUEL-WATER SEWER
GS GAS PIPE
SW SURFACE-WATER SEWER
TL TELECOM/CAV
U UNKNOWN
W WATER

(AR) - ASSUMED ROUTE (UTT)
EOT - END OF TRACE
UTL - UNABLE TO LIFT

D - DEPTH (x)
TFR - TAKEN FROM RECORDS
UTT - UNABLE TO TRACE

1. All underground services shown have been identified from above ground without excavation using electro-magnetic and/or ground penetrating radar (GPR) methods. Results using these methods are not infallible and we recommend that excavations are carried out to confirm any identifications, positions and depths of any services that could be affected by subsequent works.

2. Any areas on the drawing where services or features have not been shown are not necessarily clear of services or features but are an indication that no items have been identified during our investigations. All reasonable care and normal good practice should still be employed during design and construction processes.

3. We have used all reasonable care to research available service records, but the completeness or use of the service records supplied to or by us cannot be guaranteed. Therefore we cannot guarantee the accuracy of features annotated as taken from records (TFR).

4. Depths obtained using electro-magnetic or GPR are affected by ground conditions and should be treated as indicative only. Electro-magnetic depths to utilities and services are generally taken to the centre of a feature. GPR depths to the top of a feature and drainage depth shown to inverts, unless otherwise indicated.

5. Drainage pipe sizes have been obtained without entering the chambers and therefore should be treated as approximate. Pipe dimensions which have not been obtained visually will be taken from records where available.

6. All services, drainage and utilities routes are assumed straight between access points, unless otherwise stated. The numbers of cables in runs will not be shown unless specifically requested. All services are below ground unless indicated as "TFT" (overhead).

GENERAL NOTES

1. This survey has been presented at the survey scale indicated below with its accuracy commensurate with that scale.

2. All heights and levels in metres (u.o.n.)

CONTROL STATIONS				
REF	EASTING	NORTHING	LEVEL	TYPE
G1	335080.716	392969.180	30.102	NAIL
G2	335126.509	392960.648	31.110	NAIL
G3	335013.483	392918.123	29.206	NAIL

SURVEY GRID

ORDNANCE SURVEY OSGB36 NATIONAL GRID AT STATION G1
GPS OBSERVATIONS ON ETRS89 TRANSFORMED USING OSTN02
SURVEY THEN TRANSFORMED TO A SCALE FACTOR OF 1.000000 FROM STATION G1

LEVEL DATUM

ORDNANCE SURVEY DATUM NEWLYN (ODN) BY GPS OBSERVATIONS AT STATION G1
TRANSFORMED FROM ETRS89 USING OSGM02 GEOD

0	ORIGINAL ISSUE	MPW	LW	06/12/17
REV	DESCRIPTION	BY	CHK	DATE
DRAWN	MPW	CHECKED	LW	DATE 06 DEC. 2017

TITLE

TOPOGRAPHICAL SURVEY AT
WHITTLE STREET, KIRKDALE
LIVERPOOL L5 2SL

CLIENT

RAPID GROWTH LIMITED

SURVEYED BY
GEOSPATIAL
ENGINEERING
SERVICES LTD

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CAD FILE	00608.DWG	SCALE	1 : 200	SHT	A0
DRAWING No	00608			REVISION	O