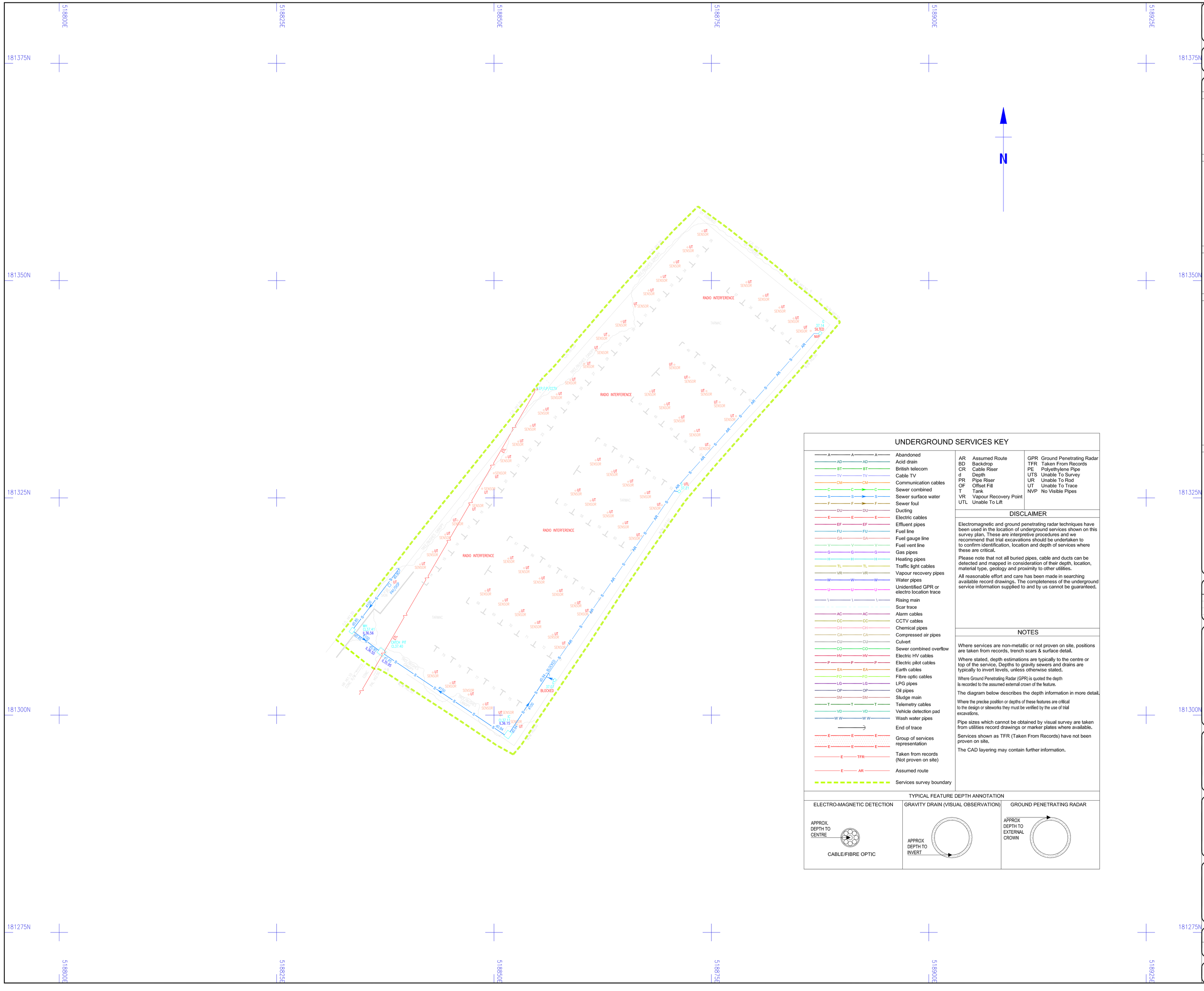

Survey Notes

Grid: Local Plane Metric related to National grid at survey control station SC1

Levels: OS Datum from GNSS positioning converted using the National GEOID Model OSGM15

Notes

Access to survey was restricted due to car park operations as it was not possible to lift covers or trace services in some areas.

Topographical Survey Legend

BUILDINGS AND WALLS

Building
Building Open Sided
Ruin — RUIN
Passage
Wall with Height — Wall Ht 1.3m
Retaining Wall — R/W

FENCE STYLES AND DESCRIPTIONS

Close Boarded	C/B
Corrugated Iron	C/I
Chestnut Paling	C/P
Chainlink	C/L
Handrail	H/R
Interwoven	IWN
Iron Railings	I/R
Lattice	L/F
Miscellaneous	Misc
Palisade	PAL
Post & Chain	P/C
Post & Rail	P/R
Post & Wire	P/W
Post & Barbed Wire	B/W
Wire mesh	W/M
Stile	
Gate	
Fence linestyle	

ROADS

Kerbs
Edge of Surfacing
Pedestrian Crossing — PC
Track — Track
Footpath — FP

STREET FURNITURE

Belisha Beacon	BB
Bus Stop	BS
Bollard	B
Cats Eye	CE
Coal Chute	CC
Closed Circuit TV	CCTV
Drain	DR
Electricity Pole	EP
Flood Light	FL
Flag Staff	FS
Lamp Post	LP
Letter Box	LB
Name Plate (street)	NP
Mooring Ring	MR
Mile Post or Mooring Post	MP
Service Marker	MK
Mile Stone	MS
Post	P
Parking Meter	PM
Reflector Post	RP
Rodding Eye	RE
Road Sign	RS
Speed Camera	S/CAM
Information Sign	SIGN
Stay	SY
Traffic Light	TL
Telegraph Pole	TP
Traffic Light Push Button Post	TLP
Traffic Light Control	TLC/P
Control Box	C/BOX
British Telecom Box	BT BOX
Electricity Box	EL BOX
Gas Box	GAS BOX

INSPECTION CHAMBERS AND PIPES

Inspection Cover	IC
Inspection Cover (Elec)	IC/EL
Manhole	MH
British Telecom Cover	BT
Inspection Cover (Comms)	IC/COM
Cable TV	CATV
Inspection Cover Traffic Signals	IC/TL
Gully	G
Kerb Outlet	KO
Vent Pipe	VP
Down Pipe	DP
Rain Water Pipe	RWP
Soil Pipe	SVP
Gas Pipe	G-PIPE
Unable to lift cover	UTL
Stop Tap	ST
Stop Valve	SV
Lamphole	LH
Hydrant	HYD
Earth Rod	ER
Gas Valve	GV
Water Meter	WM
Washout	WO
Rodding Eye	RE

GENERAL INFORMATION

Petrol Pump	PP
Basement Light	BL
Footbridge	FB
Dish Type Channel	D.CH
Slot Type Channel	S.CH
Grate Type Channel	G.CH
Tactile Paving	TAC
Crash Barrier	C/BR
Column	COL
Stanchion	STAN
Car Vacuum	VAC
Offset Fill	OF
Air Valve	AV
Trough	TR
Chimney	CHY
Telephone Call Box	TCB

OVERHEAD FEATURES

Electricity Pylon — E.PYLON
Electricity — ETL
Telephone — OTL

WATER FEATURES

Canal — Canal
Stream — Stream
Ditch — Ditch
Weir
Culvert — Cul
Grip (Land Drain)
Spring — SPR

RELIEF AND VEGETATION

Hedge
Edge of wood/Bushes
Stump — STUMP
Individual Tree
Slopes with Height Greater than 1m
Cliff Face
Marsh
Reeds

LEVEL AND HEIGHT INFORMATION

Standard Spot Height	+ 123.45
Precision Spot Height	+ 123.456
Bed Level	+ BL23.92
Water Level	+ WL24.92
Soffit Level	+ SL25.92
Threshold Level	+ TH26.98
Cover Level	+ CL26.45
Invert Level	+ IL25.15
Pipe Soffit Level	+ PSL5.00
Floor Level	+ FL6.00
Finished Floor Level	+ FFL6.00
Top of Tank Level	+ TT7.00
Eave Level	+ EL7.00
Ridge Level	+ RL9.00
Roof Hip Level	+ RHL8.50
Flat Roof Level	+ FRL7.00
Top of Canopy Level	+ TOP/C7.00
Underside of Canopy Level	+ SOF/C6.50
Window Sill Level	+ WSL8.00
Window Head Level	+ WHL9.00
Springing Level	+ SPL8.50
Arch Level	+ AL7.00
Cable Level	+ CWSL55
Top of Wall Level	+ TWL10.00
Underside of Beam Level	+ UBL9.55
General Height	+ HT9.00

SURVEY INFORMATION SIGNS

Permanent Ground Marker
O.S. Trig Station
O.S. Bench Mark

GEOTECHNICAL INFORMATION

Borehole	BH
Trial Pit	TP
Monitor Pin	MON
Probe Hole	PH
Window Sample	WS

UNDERGROUND SERVICES KEY

A A A	Abandoned
AD AD	Acid drain
BT BT	British telecom
TV TV	Cable TV
CM CM	Communication cables
C C C	Sewer combined
S S S	Sewer surface water
F F F	Sewer foul
DU DU	Ducting
E E E	Electric cables
EF EF	Effluent pipes
FU FU	Fuel line
GA GA	Fuel gauge line
V V V	Fuel vent line
G G G	Gas pipes
H H H	Heating pipes
TL TL	Traffic light cables
VR VR	Vapour recovery pipes
W W W	Water pipes
U U U	Unidentified GPR or electro location trace
\ \ \	Rising main
	Scar trace
AC AC	Alarm cables
CC CC	CCTV cables
CH CH	Chemical pipes
CA CA	Compressed air pipes
CU CU	Culvert
CO CO	Sewer combined overflow
HV HV	Electric HV cables
P P P	Electric pilot cables
EA EA	Earth cables
FO FO	Fibre optic cables
LG LG	LPG pipes
OP OP	Oil pipes
SM SM	Sludge main
T T T	Telemetry cables
VD VD	Vehicle detection pad
W W W W	Wash water pipes
	End of trace
E E E	Group of services representation
E E E	
E TFR	Taken from records (Not proven on site)
E AR	Assumed route
	Services survey boundary

AR	Assumed Route	GPR	Ground Penetrating Radar
BD	Backdrop	TFR	Taken From Records
CR	Cable Riser	PE	Polyethylene Pipe
d	Depth	UTS	Unable To Survey
PR	Pipe Riser	UR	Unable To Rod
OF	Offset Fill	UT	Unable To Trace
T	Tank	NVP	No Visible Pipes
VR	Vapour Recovery Point		
UTL	Unable To Lift		

DISCLAIMER

Electromagnetic and ground penetrating radar techniques have been used in the location of underground services shown on this survey plan. These are interpretive procedures and we recommend that trial excavations should be undertaken to to confirm identification, location and depth of services where these are critical.

Please note that not all buried pipes, cable and ducts can be detected and mapped in consideration of their depth, location, material type, geology and proximity to other utilities.

All reasonable effort and care has been made in searching available record drawings. The completeness of the underground service information supplied to and by us cannot be guaranteed.

NOTES

Where services are non-metallic or not proven on site, positions are taken from records, trench scars & surface detail.

Where stated, depth estimations are typically to the centre or top of the service. Depths to gravity sewers and drains are typically to invert levels, unless otherwise stated.

Where Ground Penetrating Radar (GPR) is quoted the depth is recorded to the assumed external crown of the feature.

The diagram below describes the depth information in more detail.

Where the precise position or depths of these features are critical to the design or siteworks they must be verified by the use of trial excavations.

Pipe sizes which cannot be obtained by visual survey are taken from utilities record drawings or marker plates where available.

Services shown as TFR (Taken From Records) have not been proven on site.

The CAD layering may contain further information.

TYPICAL FEATURE DEPTH ANNOTATION

ELECTRO-MAGNETIC DETECTION	GRAVITY DRAIN (VISUAL OBSERVATION)	GROUND PENETRATING RADAR
APPROX. DEPTH TO CENTRE — CABLE/FIBRE OPTIC	APPROX. DEPTH TO INVERT	APPROX DEPTH TO EXTERNAL CROWN

Rev.	Date	Description

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Project

NORTH EALING CAR PARK
LONDON

Drawing Title

UNDERGROUND SERVICES SURVEY

Drawn By	SH	06/03/19	
Checked by	MJP	06/03/19	
Survey Date	March 2019		
Scale	A1@1:200		

Drawing No: 53238/UG

Revision: