Underground Utility Notes;

1) The data presented in this drawing has been collected using a combination of the following techniques; electromagnetic location and ground penetrating radar.

2) The utility routes depicted may reflect the routes of multiple cables or pipes. It is not always possible to differentiate between buried construction features, utilities and other subsurface features therefore some features shown may not be utility related.
Due to the limitations of techniques employed all utility identifications should be treated with caution and verified prior to design/build works.

3) The material and ground conditions surrounding and particularly above buried utilities can lead to inferior data resolution when using ground penetrating radar, e.g. reinforced concrete, standing ground water, saturated soil/soil types, and changes in feature material.

4) Small gullys and downpipes that go straight into the ground can not be traced due to restrictive access.

5) Note that not all buried utilities can be detected and mapped due to (but not limited by) their depth, location, material, geology and proximity to other utilities. Even an appropriate and professionally executed survey may not be able to achieve a 100% detection rate.

6) No utility mapping survey can be considered a 100% accurate depiction of the sub-surface environment, the use of these drawings does not remove the requirement for the use of safe digging techniques, in line with the requirements of HSG47 and CDM regulations.

DFW	Underground Foul Drainage
DSW	Underground Storm Drainage
DCW	Underground Combined Drainage
DUW	Underground Unidentified Drainage
EC	Underground Electric
CAB	Underground Cables
HP	Underground Heating Pipes
TS	Underground Traffic Signals
GAS	Underground Gas
UUP	Underground Unidentified Pipe
UUS	Underground Unidentified Service
TEL	Underground Telecoms
TV	Underground CATV
W	Underground Water
OIL	Underground Oil Pipe
	Underground Chamber
DUCT	Underground Ducting
	GPR Survey Profile
GPR	GPR Survey Linear Feature

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DATUM NOTES

DRAWING IS BASED ON DIGITAL DRAWING SUPPLIED BY STUDIO TASHKEEL ARCHITECTURE.

LEVELS ARE RELATED TO :- SUPPLIED DATUM

VALUE GIVEN AS XXX.XXm (NEWLYN DATUM)

SURVEY CONTROL STATIONS SHOWN △

ABBREVIATIONS (where applicable)

AV	Air Valve	MK	Marker
BK	Brick	MS	Milestone
BL	Bollard	MT	Meter
BS	Bus Stop	MY	Mercury
BT	British Telecom	OH	Overhead
C/B	Close Boarded	PAV	Paving
CL	Cover Level	PB	Post Box
CLK	Chainlink	PE	Pipe
CO	Column	PM	Parking Meter
Conc	Concrete	P/R	Post and Rail
CP	Catch Pit	PT	Post
CPS	Concrete Paving Slabs	P/W	Post and Wire
CTV	Cable Television	RE	Rodding Eye
DC	Drainage Channel	RET	Retaining
DP	Drain Pipe	RS	Road Sign
EP	Electricity Pole	RSJ	Rolled Steel Joist
ER	Earthing Rod	SC	Stop Cock
FB	Flower Bed	SK	Soakaway
FE	Fence	SPT	Septic Tank
FH	Fire Hydrant	ST	Silt Trap
FL	Floor Level	SV	Stop Valve
FP	Flag Pole	SVC	Security Video Camera
GP	Gate Post	TCB	Telephone Call Box
GV	Gas Valve	THL	Threshold Level
GY,G	Gully	TL	Traffic Light
HT	Height	TK	Tank
IC	Inspection Cover	TP	Telegraph Pole
IL	Invert Level	UG	Underground
IN	Interceptor	UTF	Unable to Trace Further
I/R	Iron Railings	UTL	Unable to Locate
JB	Junction Box	UTR	Unable to Raise
KO	Kerb Outlet	UTT	Unable to Trace
LB	Litter Bin	VP	Vent Pipe
LP	Lamp Post	WL	Water Level
MH	Manhole Cover	WM	Water Meter
		WO	Wash Out

FW	Foul Water
SW	Storm Water
CW	Combined Water
PL	Pit Level
SL	Silt Level
D	Depth
S/C	Surcharged
B/D	Backdrop Pipe
NPV	No Pipes Visible

NOTES

- Drainage pipe sizes (where shown) have been gauged from the surface for safety reasons and should be regarded as approximate only.
- Tree species (where shown) should be treated with caution and expert identification is advised.
- Although this is a digital survey the accuracy and amount of detail shown is only commensurate with the graphical scale of mapping as specified. Care should be exercised when working to larger scales.
- Visible features in the vicinity of the boundaries as shown above, may not represent the extent of legally conveyed ownership.
- Whilst every effort has been made to achieve accuracy on this plan, CRUCIAL clearance dimensions, levels and invert levels should be checked prior to design and construction.
- Kerb levels have been taken in the bottom of the channel.
- XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

SHEET LAYOUT
NOT TO SCALE

HERBERT STREET
CHEETHAM HILL
MANCHESTER
M8 0DG

UNDERGROUND SERVICES SURVEY

SURVEYED FOR STUDIO TASHKEEL ARCHITECTURE
89 PRINCESS STREET
MANCHESTER
M1 4HT

SURVEYOR A RHODES
DATE JULY 2021

NO	DATE	REVISION

DRAWING NO	N 1153/1	REV	0
DRAWING TITLE	UNDERGROUND		
SCALE	1 : 200		
SEE ALSO DWG NOS			
SHEET	1 of 1		
REF NO	N 1153		