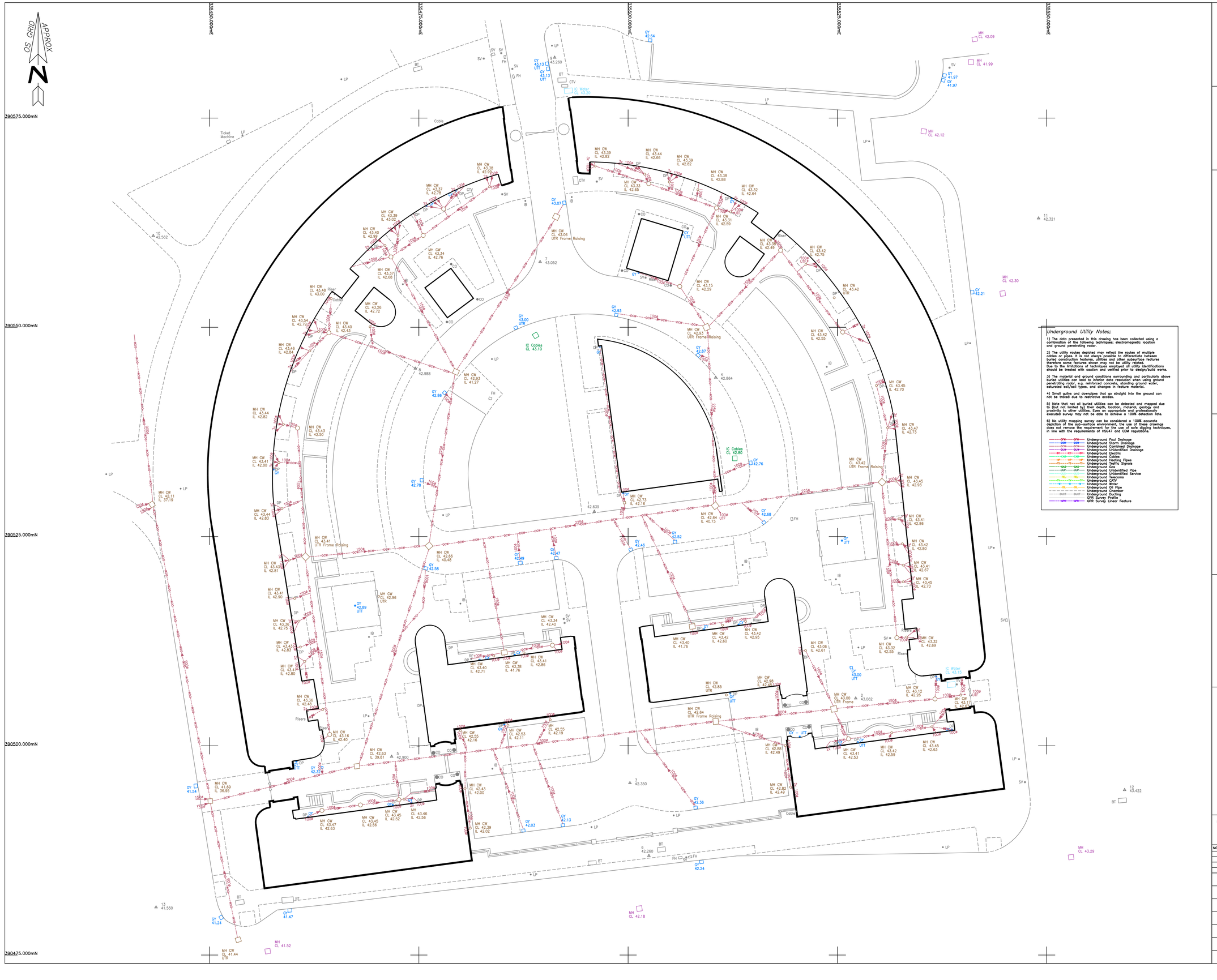

Underground Utility Notes;

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.

- Underground Foul Drainage
- Underground Storm Drainage
- Underground Combined Drainage
- Underground Unidentified Drainage
- Underground Electric
- Underground Cables
- Underground Heating Pipes
- Underground Traffic Signals
- Underground Gas
- Underground Unidentified Pipe
- Underground Unidentified Service
- Underground Streams
- Underground CATV
- Underground Water
- Underground Oil Pipe
- Underground Chamber
- Underground Ducting
- GPR Survey Profile
- GPR Survey Linear Feature

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DATUM NOTES

CO-ORDINATES USED ARE BASED ON O/S NATIONAL GRID, OBTAINED USING THE ACTIVE GPS NETWORK AND ADJUSTED TO A LOCAL GRID WITH A SCALE FACTOR OF 1.0000

LEVELS ARE RELATED TO :- OS ACTIVE GPS NETWORK

SURVEY CONTROL STATIONS SHOWN:

ABBREVIATIONS (where applicable)

AV	Air Valve	MK	Marker
BK	Brick	MS	Milestone
BL	Bollard	MT	Meter
BS	Bus Stop	OH	Overhead
BT	British Telecom	OH	Overhang
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	Down Pipe	RS	Road Sign
EP	Electricity Pole	RSJ	Rolled Steel Joist
ER	Earthing Rod	SK	Soil Stack
FB	Flower Bed	SK	Sinkhole
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	UTC	Unable to Trace
IN	Interceptor	UTF	Unable to Trace Further
I/R	Iron Railings	UTL	Unable to Locate
JB	Junction Box	UTR	Unable to Raise
KG	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

UGS ABB.

FW	Foul Water
SW	Storm Water
CW	Combined Water
FL	Fill Level
SL	Silt Level
D	Depth
S/D	Surcharged
BD	Blockship Pipe
NPV	No Pipes Visible

CCTV ABB.

VCP	Vitrified Clay Pipe
PE	Plastic Pipe
CO	Concrete Pipe
CI	Cast Iron Pipe
PSC	Size Change
MC	Material Change
JN	Junction
ON	Connection
UTC	Unable to Camera

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.

SHEET LAYOUT
NOT TO SCALE

DRAINAGE CONNECTIVITY EXAMPLE SURVEY

DRAINAGE CONNECTIVITY SURVEY

SURVEYED FOR	CLIENT NAME ADDRESS CITY POSTCODE	SURVEYOR	SURVEYOR NAME DATE DATE OF ISSUE

NO	DATE	REVISION

DRAWING NO	N 2222/1 REV 0
DRAWING TITLE	DRAINAGE LAYOUT
SCALE	1 : 200 (A1)
SEE ALSO DWG NOS	
SHEET	1 of 1
REF NO	N 2222