



SERVICES LEGEND

UNDERGROUND ELECTRICITY LINE	FOUL DRAINAGE
ELECTRICAL MANHOLE	FOUL MANHOLE
OVERHEAD LINE WITH POLE	STORM DRAINAGE
OVERHEAD ELECTRIC	STORM DRAINAGE MANHOLE
UNDERGROUND HV ELECTRICITY LINE	COMBINED DRAINAGE
4M HIGH STREET LIGHT	COMBINED DRAINAGE MANHOLE
MAN FILLER	PRODUCT DRAINAGE
LVG ELECTRIC TRAFFIC CONTROL	PRODUCT DRAINAGE MANHOLE
TRAFFIC CONTROL MANHOLE	CHEMICAL LINE
ERS	CHEMICAL MANHOLE
ERS CHAMBER	ROAD GULLY
OVERHEAD LINE WITH POLE	GULLY TRAP
ENET	WATER MAIN
ENET CHAMBER	SLUCE VALVE
COMPS	FIRE HYDRANT
COMPS CHAMBER	WASTE METER
VIRCON	SCOUR VALVE
VIRCON CHAMBER	PRESSURE RELEASE VALVE
FIBRE	AIR VALVE
FIBRE CHAMBER	NON RETURN VALVE
AURORA TELECOM	FUEL LINE/TANK
AURORA TELECOM CHAMBER	GAS SW
CATV	GAS LINE
CATV CHAMBER	GAS HIGH PRESSURE LINE
BTESAT	GL 00.00 GROUND LEVEL (INTER - IN DATUM)
BTESAT CHAMBER	GL 00.00 COVER LEVEL (INTER - IN DATUM)
SIRO FIBRE	GL 00.00 INVERT LEVEL (INTER - IN DATUM)
SIRO CHAMBER	DP 50 DEPTH TO TOP OF SERVICE DUCT OR CABLE
UNIDENTIFIED SERVICE	DP ON MANHOLES - INSERT LEVEL OF CHAMBER
UNIDENTIFIED CHAMBER	DP ON DRAINAGE - INSERT LEVEL OF PIPE
EARTH LINE AND ROSS	UTO UNABLE TO OPEN
SENSOR	OSA OUTSIDE SURVEY AREA
CCTV POLE	UNABLE TO TRACE
UTILITIES CABINET	EMPTY DUCT
	SURVEYED AREA



Please note that the absence of services on this drawing is not solid proof that these services are not present in the ground. While every method of underground utility locating has been adhered to in this survey, some services may lie outside the range of the GPR and electro-magnetic locator signal. Poor ground conditions and/or services situated underneath other services can also prove impossible to locate. Due to the fact that not all Utility Service Plans were provided to MetroScan by the contractor MetroScan cannot be held responsible for any services that have not been identified. The contractor should not assume that all services have been identified and must exercise a duty of care when excavating. Hand / vacuum excavation is advised to determine exact depth and position of services prior to excavation commencing. Please note that the drawing provided is valid for 90 days from date stated below. Drawing is intended solely for use of the contractor named below.

Access Levels
In ideal conditions the accuracy levels of the EM is +1.5% whilst the GPR outputs accuracy levels of 10% up to 2.5m depth. These accuracy levels can vary depending on ground conditions, depths of services, congestion of services (may cause signal to bleed to other services). Depths noted on drawings should be taken as indicative and hand / vacuum excavation is advised where exact depth are required. Diameter of services will be given where direct access is available through visual inspection, eg manholes. All cover level elevations for Manholes / Inspection Chambers will be taken from topographical survey if supplied.

Survey Limitations
Non-conductive services pose a difficult task to identify. Direct buried fibre optic cables are difficult to identify with GPR. They can easily be traced when placed in a conduit by the means of a snake or cobra reel. PE gas mains can also prove difficult to identify. If MetroScan cannot get an accurate signal from a service, it will be noted on the drawing that the service is 'Taken from records Q-54'. If manholes cannot be opened on site, they will be marked on the drawing as UTO (unable to open). Excluded from the survey unless otherwise stated. Disconnected services, services above ground, disconnected services where no signal can be obtained.

- ### Notes
- GPR equipment :
Detector Duo, DS2000,
Stream C, Mala EL Core
scanning frequency 250 and 700 mhz
Depth of investigation 2.5m, self calibrating.
 - Radio detection equipment:
Vivax Metrotech VLoc Pro3 / RD7000
 - GPR scanning limited to smooth surfaces only no obstruction.
Survey area marked on drawing
 - All depths stated are an indication of depth
caution required when excavating.
 - All Utilities are classified QL-B2 unless noted otherwise.

PAS 128

Survey Type	Quality Level	Location Accuracy	Supporting Data
D Desktop utility record search	QL-D	Undefined	Undefined
C Site Reconnaissance	QL-C	Undefined	Undefined
B Detection	QL-B4	Undefined	Undefined
	QL-B3	plus/minus 500mm depth	Horizontal location only of the utility detected by one of the geophysical techniques used
	QL-B2	plus/minus 250mm of the detected depth	Horizontal and vertical location of the utility detected by one of the geophysical techniques used
	QL-B1	plus/minus 150mm of the detected depth	Horizontal and vertical location of the utility detected by multiple geophysical techniques used
A Verification	QL-A	plus/minus 50mm	Horizontal and vertical location of the top and/or bottom of the utility through trial holes/dig trench method

Client
GII

Site Address
1-9 Belvedere Orphanage
Tyrrellspass, Co. Westmeath

Drawing Title:
MUL1383_GII_Tyrrellspass

Site Completion Date: 20/03/2023

Scale: 1:100 @ A1

Coordinates: ITM

Drwg No: 1
Sheet No: 01
Rev No:

METROSCAN
UTILITY LOCATING

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