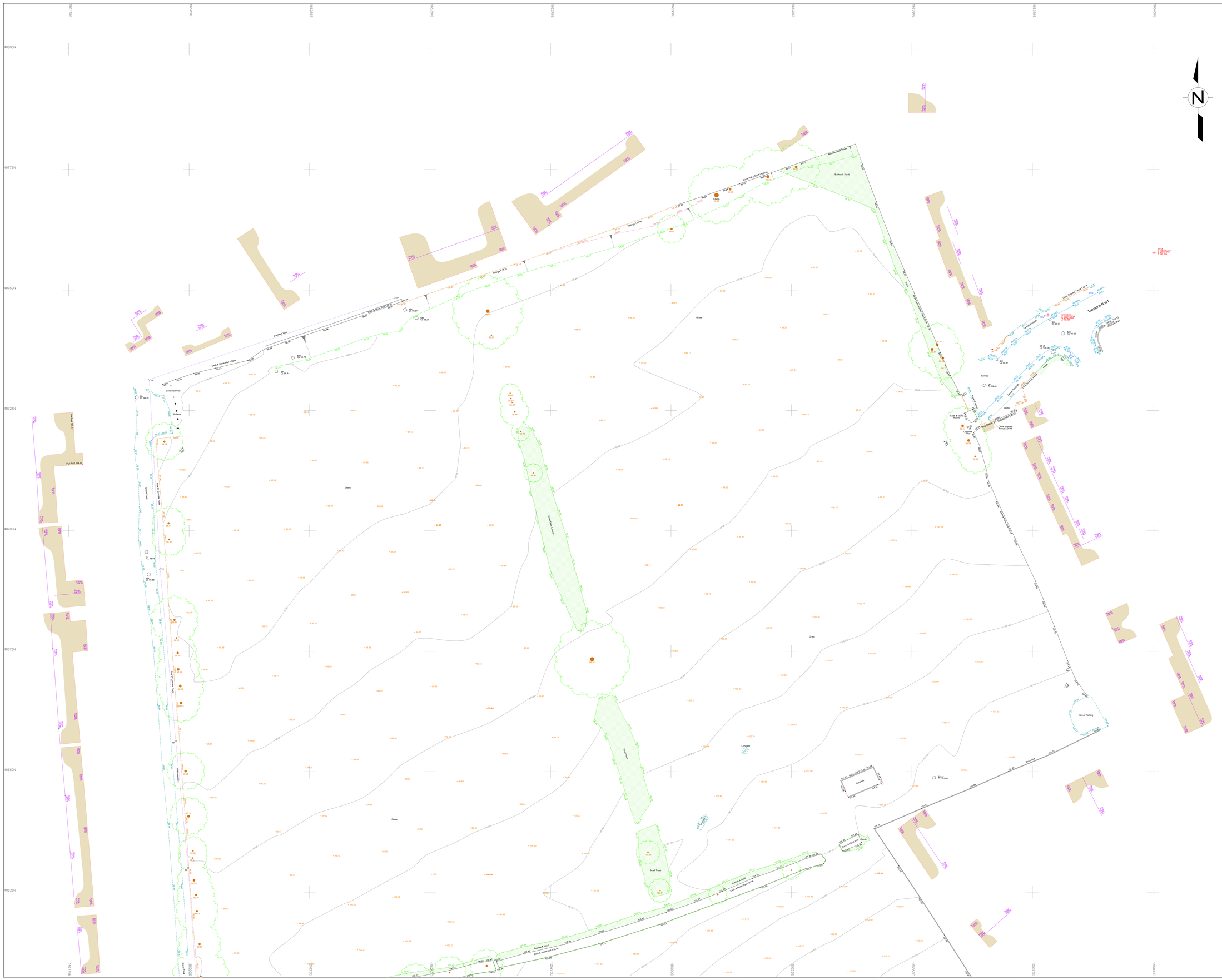


LEGEND

UTILITY LINETYPES

British Telecom	BT	Gas	GAS
Cable Television	CATV	Heating Pipes	HP
Closed Circuit Television	CCTV	Lighting Cables	LC
Communications	COM	Multiple Services Route	MSR
Drainage	DR	Oil	OIL
Drainage - Combined Water	CW	Oxygen	OX
Drainage - Foul Water	FW	Street Lighting	SL
Drainage - Surface Water	SW	Traffic Control Loop	TC
Empty Duct	ED	Unknown found by GPR	
Electric	E	Unknown	U
Fire Hydrant Main	FH	Unknown Cable	UC
Fibre Optic	FO	Unknown Pipeline	UP
Water	W	Water	W

Assumed Service Route - See GENERAL NOTES (Using abbreviation of service and colour as above) — ASR — XXX — ASR — YYY

UTILITY SURVEY INFORMATION

Area of Concern	AOC	Unable to Survey	UTS
Contracted Survey Area	CSA	Unable to Lift (cover)	UTL
Previous Survey Area	PSA	Unable to Trace	UTI
Extent of (Post processed) GPR	GPR	Unable to Trace (due to blockage)	BL
Depth to Top of Service (metres)	01.60	Unable to Trace Further	TF
		End of Trace	EOT

ABBREVIATIONS used on a PAS 128 Survey

(O.Grd BGP) 0.65d = Depth in metres, B2 = Quality Level, P = Post processed GPR

TOPOGRAPHIC & UTILITY DETAILS

Barrier (symbol - sized)		Pipe into Ground (symbol)	
Bellaha Beacon (symbol)	BCN	Post (symbol)	POST
Bollard (symbol)	BOL	Private Gate (symbol)	PG
Boundmark (symbol)	BM	Road Sign (symbol)	RSB
British Telecoms IC (sized)	BTIC	Rodding Eye (symbol)	RE
Building (incomplete detail)		Sapling (symbol)	
Cable into Ground (symbol)		Sign Post (symbol)	SP
Cables TV Box (symbol)		Spot Height (symbol)	SH 99.99
CCTV Camera (symbol)	CCTV	Spot Height	99.99
Cover Level in metres	CL 50.00	Stop Cock (symbol)	SC
Direction of Flow (Drainage)		Stop Valve (symbol)	SV
Earth & Stone Wall (sized)	ESW	Survey Station (symbol)	
Earth Rod (symbol)	ER	Telephone Pole (symbol)	TP
Electric Cabinet (sized)	EC	Traffic Bollard (symbol)	TB
Electric Pole (symbol)	EP	Tree (dbh/species in metres - e.g.)	Dbh 0.30 Spruce
Electric Sign (symbol)	ES	Hedgerow or Vein (size)	Dbh 0.30 Hedge
Embankment		Spinney	Dbh 0.30 Spinney
Feeder Pillar (sized)	FP		
Flag Pole (symbol)	FP	Traffic Light (symbol)	TL
Flag Pole (symbol)	FP	Unknown Valve (symbol)	UV
Flat Roof Level in metres	FRL 50.00	Vent Pipe (symbol)	VP
Flood Light (symbol)	FL	Wall	WALL
Gas Valve (symbol)	GV	Waste Pipe (symbol)	WP
Gate	GATE	Water Meter (symbol)	WM
Ground Level in metres	GL 50.00	Water Valve (symbol)	WV
Gulley (sized)	GULLY	Building Canopy	
Inspection Cover (sized)	IC	Cover Barrier	
Invert Level in metres	IL 50.00	Drainage Channel	Drainage Channel
Junction Box - BT (sized)	JB BT	Drop Kerb (level in metres)	DK 50.00
Junction Box - Comms (sized)	JB COM	Edge Detail (level in metres)	ED 50.00
Junction Box - Electric (sized)	JB E	Footpath (level in metres)	FP 50.00
Lamp Post (symbol)	LP	Fence	
Light Bollard (symbol)	LB	Heras Fence	
Light in ground (symbol)	LIG	Kerb channel (level in metres)	KC 50.00
Manhole (sized)	MH	Kerb top (level in metres)	KT 50.00
Manhole Covered Port	MHCP	Overhead Service Line	OHSL
Parapet Level in metres	PL 50.00	Pedestrian Railing	
Pipe Diameter in millimetres	100		

GENERAL NOTES

Irrespective of the information provided by a utility survey and statutory plans, excavation work should be undertaken with extreme caution and in accordance with HSE Guidelines - HSG47 Avoiding Danger from Underground Services

Only sub-surface utility information is provided. Above ground utility information may be shown where it assists with positional referencing.

Utilities may continue outside of the survey area. Any paint marks outside of the area are for investigative purposes only and may not represent the full extent of the sub-surface utilities.

Where logic indicates a utility exists but which cannot be positively confirmed with the technology, an assumed route (ASR) is recorded. All assumed service routes (ASR) have been highlighted with a background yellow colour for visual enhancement.

Sewer and manhole details shown on this drawing have been obtained by observation and measurement from the surface and as such cannot be guaranteed

Vertical & Horizontal Position - Vertical position (depth) is indicative to the top of the feature (e.g. pipe crown, cable sheath etc.). Where the top of the feature is not visible, measurements will be taken as exact, as this could be the surround to the service rather than the service itself. Where depth information from the technology is unclear, depth is not shown. Drains and pipes/ducts may have been detected using threading and the depth indicated could be between the top (soffit) and the bottom (invert). Horizontal position is indicative to the centre of the utility/feature and should not be taken as exact.

Warranty - Biodegradable paints are used to mark-out the position of the utilities. Markings may become illegible quickly depending on ground, weather and traffic conditions. No warranty is given in respect of the durability of the paint markings and that they are a complete representation of the sub-surface utilities, therefore, this drawing should be used as the primary reference for the survey results.

This drawing does not provide an absolute representation of the sub-surface. Utilities have been detected using non-invasive technologies only and the performance can be adversely affected by ground, weather and site conditions outside of SUMO's control, therefore, some utilities may be undetectable. While SUMO uses reasonable endeavours to detect all utilities, it is not possible to detect all. Typically, the maximum and average schematic depth penetration of the technologies SUMO uses will not be greater than two metres.

SHEET LAYOUT

Sheet 01

Sheet 02

Rev	Notes	Drawn	Date

Notes:

Survey is referenced to OS Grid and Level Datum.

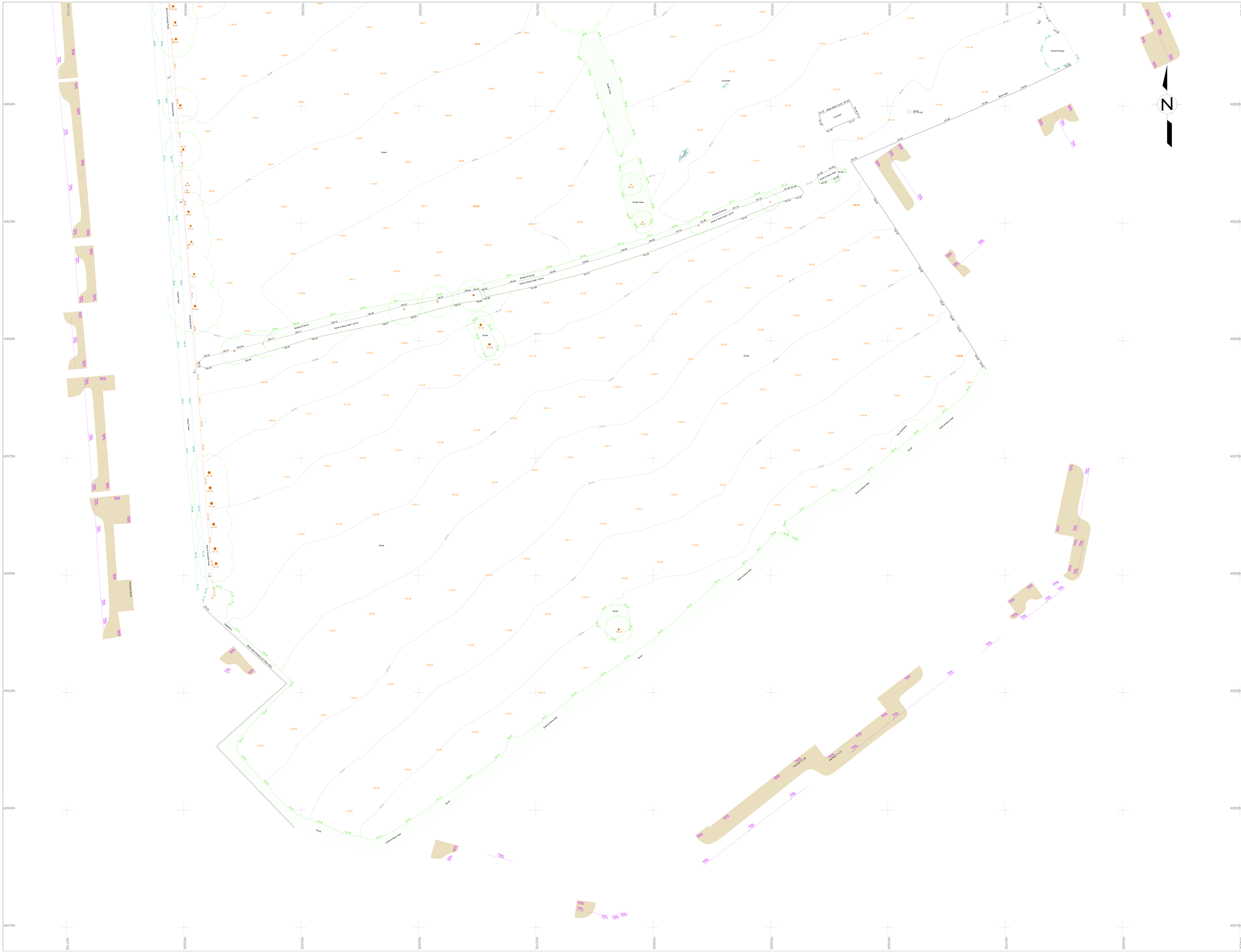
SUMO SERVICES Ltd
8 HAYWARD BUSINESS CENTRE
BOTLEY LANE
NEVARA
HAMPSHIRE
PO9 2NL
TEL: 0845 456 1104
www.sumoservices.com

Title: Topographical Survey

Client: Meiloci Ltd.

Project: Gerry Park, Park Road, Cambourne

Date Completed:	07/07/2022	Post Code:	TR14 8ND
Surveyed:	SJ, DE	Scale:	1/250 (A0 Sheet)
Drawn:	DM		
Checked:	SJ		
Job No:	SUMO-06344	Dwg No:	01
		Rev:	



LEGEND

UTILITY LINETYPES

British Telecom	BT	Gas	G
Cable Television	CATV	Heating Pipes	HP
Closed Circuit Television	CCTV	HV Cables	HV
Communications	C	Multiple Services Route	MSR
Drainage	DR	Oil	OIL
Drainage - Combined Water	CW	Oxygen	OXY
Drainage - Foul Water	FW	Street Lighting	SL
Drainage - Storm Water	SW	Traffic Signal Loop	TSL
Empty Duct	ED	Unknown found by GPR	
Electric	E	Unknown	U
Fire Hydrant Main	FH	Unknown Cable	UC
Fibre Optic	FO	Unknown Pipeline	UPL
Fuel	FUEL	Water	W

Assumed Service Route - See GENERAL NOTES (Using abbreviation of service and colour as above) ASR—XXX —ASR—XXX

UTILITY SURVEY INFORMATION

Area of Concern	AOC	Unable to Survey	UTS
Contracted Survey Area	SVY AREA	Unable to Lift (cover)	UTL
Previous Survey Area	PREVIOUS	Unable to Trace	U
Extent of (Post processed) GPR	GPR Survey	Unable to Trace (due to blockage)	B
Depth to Top of Service (metres)	(O.60d)	Unable to Trace Further	F
		End of Trace	E

ABREVIATIONS used on a PAS 128 Survey

(O.65d B2P) 0.65d = Depth in metres, B2 = Quality Level, P = Post processed GPR

TOPOGRAPHIC & UTILITY DETAILS

Barrier (symbol - sized)		Pipe into Ground (symbol)	
Belisha Beacon (symbol)	BB	Post (symbol)	PO
Bollard (symbol)	B	Rain Water Pipe (symbol)	RWP
Borehole (symbol)		Road Sign (symbol)	RS
British Telecoms IC (sized)	BTIC	Rodding Eye (symbol)	RE
Building (incomplete detail)		Sapling (symbol)	S
Cable into Ground (symbol)		Sign Post (symbol)	SP
Cable TV Box (symbol)	CTV	Spot Light (symbol)	SL
CCTV Camera (symbol)		Spot Height	50.00 +
Cover Level in metres	CL 50.00	Stop Cock (symbol)	SC
Direction of Flow (Drainage)		Stop Valve (symbol)	SV
Distribution Board (symbol)	DB	Survey Station (symbol)	
Earth Rod (symbol)	ER	Telephone Pole (symbol)	TP
Electric Cabinet (sized)	EC	Traffic Bollard (symbol)	B
Electric Pole (symbol)	EP	Tree (dimensions in metres - e.g.) Diameter at 1mh: (bole) Height: Spread: Species:	Dia: 0.3 Sp: 7.5 Ht: 10.2 Maple
Electric Sign (symbol)	ES		
Embankment			
Feeder Pillar (sized)	FP	Traffic Light (symbol)	TL
Fire Hydrant (sized)	FH	Unknown Valve (symbol)	UV
Flag Pole (symbol)	FP	Vent Pipe (symbol)	VP
Flat Roof Level in metres	FRL 50.00	Wall	
Flood Light (symbol)	FL	Waste Pipe (symbol)	WP
Gas Valve (symbol)	GV	Water Meter (symbol)	WM
Gate	Single Double	Water Valve (symbol)	WV
Ground Level in metres	GL 50.00		
Gulley (sized)	GU	Building Canopy	
Inspection Cover (sized)	IC	Crash Barrier	
Invert Level in metres	IL 50.00	Drainage Channel	Drainage Channel
Junction Box - BT (sized)	JB BT	Drop Kerb (level in metres)	50.00
Junction Box - Comms (sized)	JB COM	Edge Detail (level in metres)	50.00
Junction Box - Elec (sized)	JB	Footpath (level in metres)	50.00
Lamp Post (symbol)	LP	Fence	
Light Bollard (symbol)	LB	Heras Fence	
Light in ground (symbol)	LIG	Kerb channel (level in metres)	50.00
Manhole (sized)	MH	Kerb top (level in metres)	50.00Tk
Manhole Capped Port		Overhead Service Line	OHS
Parapet Level in metres	PL 50.00	Pedestrian Railing	
Pipe Diameter in millimetres	Ø100		

GENERAL NOTES

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Vertical & Horizontal Position - Vertical position (depth) is indicative to the top of the utility/feature and is recorded as (x.xxd) i.e. (1.25d) - (depth to top of service) and should not be taken as exact, as this could be the surround to the service rather than the service itself. Where depth information from the technology is unclear, depth is not shown. Drains and pipes/ducts may have been detected using threading and the depth indicated could be between the top (soffit) and the bottom (invert). Horizontal position is indicative to the centre of the utility/feature and should not be taken as exact.

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This drawing does not provide an absolute representation of the sub-surface. Utilities have been detected using non-invasive technologies only and the performance can be adversely affected by ground, weather and site conditions outside of SUMO's control, therefore, some utilities may be undetectable. While SUMO uses reasonable endeavours to detect all utilities, it does not warrant that 100% detection will be achieved and that approximate depth penetration of the technologies SUMO uses will not be greater than two metres.

SHEET LAYOUT

Sheet 01

Sheet 02

Rev	Notes	Drawn	Date

Notes:

Survey is referenced to OS Grid and Level Datum.

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Title: Topographical Survey

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