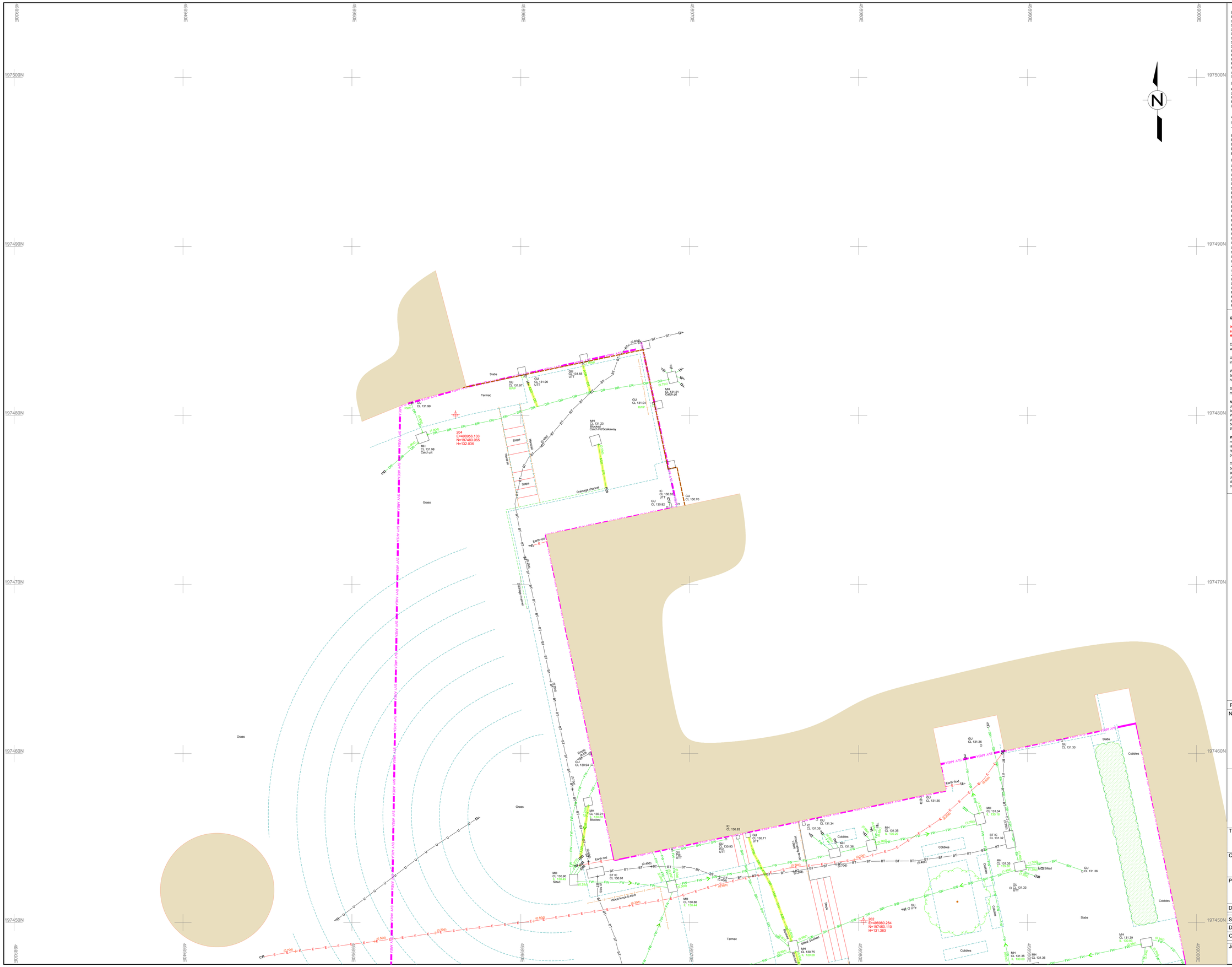

LEGEND

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	UFF
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	IB
Extent of (Post processed) GPR	GPR Survey	Unable to Trace (due to blockage)	IBB
Depth to Top of Service (metres)	(0.60d)	Unable to Trace Further	IBu
		End of Trace	BEu

ABREVIATIONS used on a PAS 128 Survey

(0.65d 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)	
Cable into Ground (symbol)		Sign Post (symbol)	SP
Cable TV Box (symbol)	CTV	Spot Light (symbol)	SL
CCTV Camera (symbol)		Spot Height	50.00 x
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.)	
Electric Sign (symbol)	ES	Diameter at 1m: (bole)	Dia 0.3
Embankment		Height	Ht 7.0
Feeder Pillar (sized)	FP	Spread	Sp 10.2
Fire Hydrant (sized)	FH	Species	Maple
Flag Pole (symbol)	FP	Traffic Light (symbol)	TL
Flat Roof Level in metres	FRL 50.00	Unknown Valve (symbol)	UV
Flood Light (symbol)	FL	Vent Pipe (symbol)	VP
Gas Valve (symbol)	GV	Wall	
Gate		Waste Pipe (symbol)	WP
Ground Level in metres	GL 50.00	Water Meter (symbol)	WM
Gulley (sized)	GU	Water Valve (symbol)	WV
Inspection Cover (sized)	IC		
Invert Level in metres	IL 50.00	Building Canopy	
Junction Box - BT (sized)	JB BT	Crash Barrier	
Junction Box - Comms (sized)	JB COM	Drainage Channel	Drainage Channel
Junction Box - Elec (sized)	JB	Drop Kerb (level in metres)	50.00
Lamp Post (symbol)	LP	Edge Detail (level in metres)	50.00
Light Bollard (symbol)	LB	Footpath (level in metres)	50.00
Light in ground (symbol)	LIG	Fence	
Manhole (sized)	MH	Heras Fence	
Manhole Capped Port		Kerb channel (level in metres)	50.00
Parapet Level in metres	PL 50.00	Kerb top (level in metres)	50.00
Pipe Diameter in millimetres	100	Overhead Service Line	OHS
		Pedestrian Railing	

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 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.

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 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.

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

Title: Utility Mapping

Client: Dr Challoner's High School

Project: Dr Challoner's High School, Cokes Lane, Little Chalfont, Buckinghamshire.

Date Completed:	23/03/2020	Post Code:	HP7 9QB
Surveyed:	SW,VR	Scale:	1/100 (A1 Sheet)
Drawn:	VR		
Checked:	MWS		
Job No:	SOR017269	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
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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	IID
Extent of (Post processed) GPR	GPR Survey	Unable to Trace (due to blockage)	IIB
Depth to Top of Service (metres)	(0.60d)	Unable to Trace Further	IIA
		End of Trace	IIU

ABREVIATIONS used on a PAS 128 Survey

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Direction of Flow (Drainage)		Stop Valve (symbol)	SV
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Ground Level in metres	GL 50.00	Water Meter (symbol)	WM
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Inspection Cover (sized)	IC	Building Canopy	
Invert Level in metres	IL 50.00	Crash Barrier	
Junction Box - BT (sized)	JB BT	Drainage Channel	Drainage Channel
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	50.00
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)	50.00
Manhole Capped Port		Overhead Service Line	OHS
Parapet Level in metres	PL 50.00	Pedestrian Railing	
Pipe Diameter in millimetres	100		

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