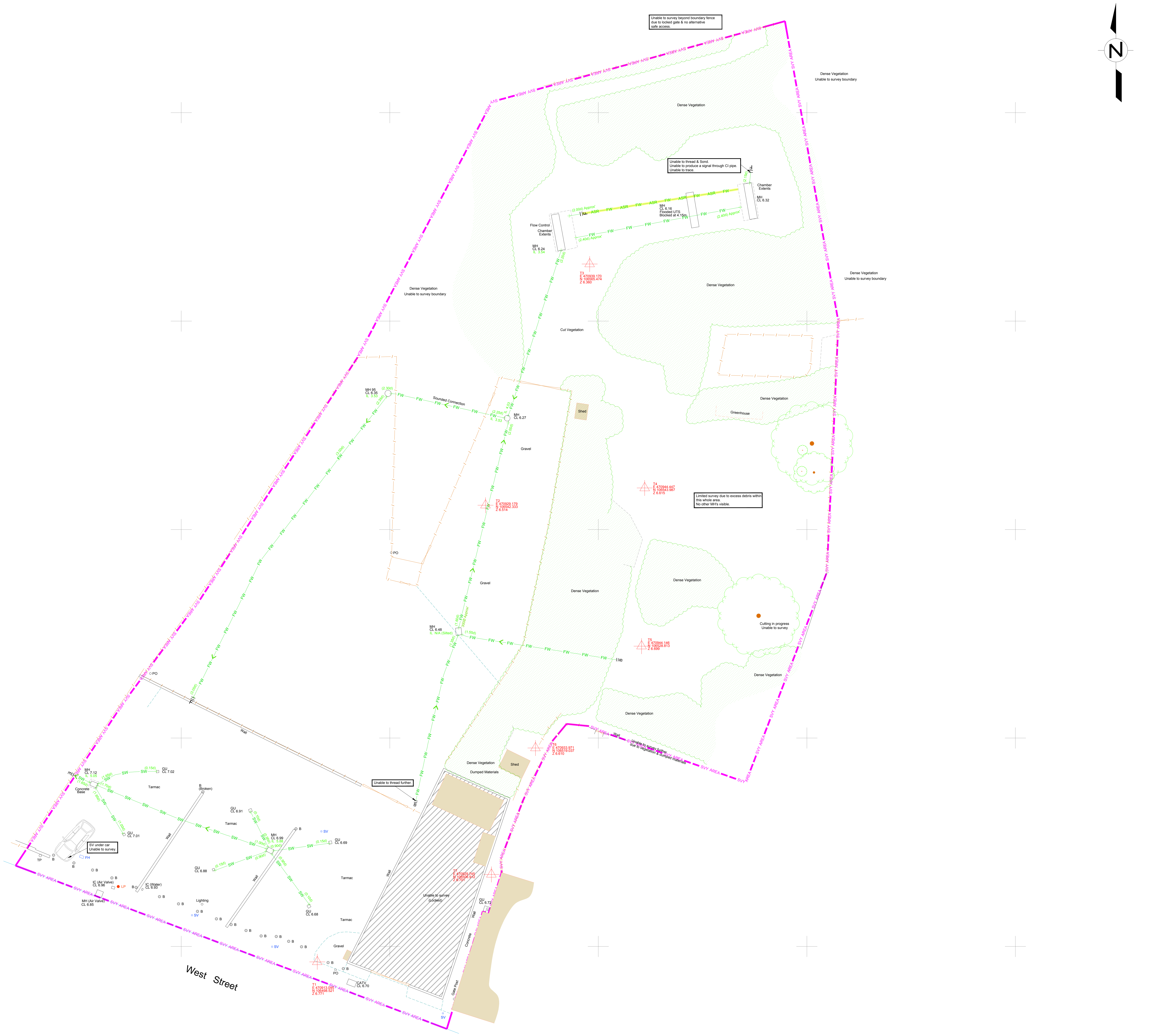
N
Unable to survey beyond boundary fence due to locked gate & no alternative safe access.
SVY AREA
Dense Vegetation
Unable to survey boundary
Unable to thread & Sond. Unable to produce a signal through CI pipe. Unable to trace.
(2.15d)
Chamber Extents
MH CL 6.32
MH CL 6.16 Flooded UTS Blocked at 4.15m
(2.00d) Approx'
ASR
FW
(2.40d) Approx'
Flow Control Chamber Extents
MH CL 6.24 IL 3.54
(2.20d)
T3 E 470939.170 N 106565.474 Z 6.360
Cut Vegetation
Greenhouse
Shed
MH 95 CL 6.35 IL 3.53
(2.30d)
(2.35d)
Sounded Connection
(2.25d)
IL 3.53
IL 4.03
MH CL 6.27
(2.00d)
(3.00d)
Gravel
T2 E 470929.179 N 106542.333 Z 6.514
T4 E 470944.447 N 106543.987 Z 6.615
Limited survey due to excess debris within this whole area. No other MH's visible.
PO
MH CL 6.48 IL N/A (Silted)
(1.60d)
300Ø Approx
(1.55d)
(1.35d)
T5 E 470944.146 N 106528.813 Z 6.699
Cutting in progress Unable to survey
Wall
Unable to survey further due to vegetation & dumped materials
T6 E 470933.971 N 106519.037 Z 6.610
Dense Vegetation
Dumped Materials
Unable to thread further.
MH CL 7.12 IL 5.05
(1.65d)
(1.70d)
(1.65d)
SW
(0.15d)
GU CL 7.02
Concrete Base
Tarmac
B (Broken)
GU CL 7.01
(1.00d)
GU CL 6.91
(0.10d)
MH CL 6.99 IL 5.88
(0.90d)
GU CL 6.69
GU CL 6.88
GU CL 6.68
SV under car Unable to survey.
FH
TP
B
IC (Air Valve) CL 6.96
LP
MH (Air Valve) CL 6.85
IC (Water) CL 6.93
Lighting
SV
T7 E 470929.745 N 106506.912 Z 6.701
Unable to survey (Locked)
GU CL 6.72
Concrete
Gate Post
CATV CL 6.70
T1 E 470913.045 N 106498.521 Z 6.771
West Street
470860E
470880E
470900E
470920E
470940E
470960E
470980E
106580N
106560N
106540N
106520N
106500N

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	U
Electric	E	Unknown Cable	UC
Fire Hydrant Main	FH	Unknown Pipeline	UPL
Fibre Optic	FO	Water	W
Fuel	FUEL		

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

UTILITY SURVEY INFORMATION

Located by Ground Penetrating Radar	GPR	Unable to Survey	UTS
Area of Concern	AOC	Unable to Lift (cover)	UTL
Contracted Survey Area	SVY AREA	Unable to Trace	IIↄ
Previous Survey Area	PREVIOUS	Unable to Trace (due to blockage)	IIB
Depth to Top of Service (metres)	(O.60d)	Unable to Trace Further	IIF
		End of Trace	IIE

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)		Post (symbol)	○PO
Belisha Beacon (symbol)	●	Rain Water Pipe (symbol)	RWP
Bollard (symbol)	●B	Road Sign (symbol)	○RS
Borehole (symbol)		Rodding Eye (symbol)	◇RE
British Telecoms IC	☐BTMH	Sapling (symbol)	S
Building (incomplete detail)		Sign Post (symbol)	○SP
		Soak Away	SA
Cable into Ground (symbol)	⊗	Spot Light (symbol)	SL
Cable TV Box (symbol)	CTV	Spot Height	50.00 +
CCTV Camera	●	Stop Cock (symbol)	SC
Cover Level in metres	CL 50.00	Stop Valve (symbol)	SV
Direction of Flow (Drainage)	>	Survey Station (symbol)	
Distribution Board (symbol)	☐DB	Telephone Pole (symbol)	TP
Earth Rod (symbol)	○ER	Telephone Box (symbol)	
Electric Cabinet	☐EC	Traffic Bollard (symbol)	■
Electric Pole (symbol)	EP		
Electric Sign (symbol)	●	Tree (dimensions in metres - e.g.)	
Embankment	Bottom Top	Diameter at 1mh: (bole) Height: Spread: Species:	Dia: 0.3 Sp: 7.5 Ht: 10.2 Maple
Feeder Pillar	☐FP		
Fire Hydrant	☐FH		
Flag Pole (symbol)	FP	Traffic Light (symbol)	
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	Single Double	Waste Pipe (symbol)	WP
Ground Level in metres	GL 50.00	Water Meter (symbol)	WM
Gulley	☐GU	Water Valve (symbol)	WV
Inspection Cover	☐IC		
Invert Level in metres	IL 50.00	Building Canopy	
Junction Box - BT	☐JB BT	Crash Barrier	
Junction Box - Comms	☐JB COM	Drainage Channel	
Junction Box - Elec	☐JB	Drop Kerb (level in metres)	50.00
Lamp Post (symbol - sized)	LP	Edge Detail (level in metres)	50.00
Light Bollard (symbol)	●LB	Footpath (level in metres)	50.00
Light in ground (symbol)	●	Fence	
Manhole	☐MH	Heras Fence	HERAS
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	Ø100	Overhead Service Line	
Pipe into Ground (symbol)	⊕	Pedestrian Railing	

GENERAL NOTES

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.

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

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.

SUMO does not procure statutory or private source utility information as part of its detection service nor does it record any such information in a utility survey unless otherwise noted. Statutory plans should be consulted to supplement this survey.

Vertical & Horizontal Position - Vertical position (depth) is indicative to the top of the utility/feature and is recorded as DTS (depth to top of service) and should not be taken as exact. Where depth information from the technology is unclear, depth is not shown. Drains may have been detected using threading and the depth indicated could be between the top and the bottom of the drain. 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. Before long paint markings may become illegible 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 will be greater than two metres.

Sewer and manhole details shown on this drawing have been obtained by observation and measurement from the surface and as such cannot be guaranteed. Where precise sewer details will be critical to the project design Sumo would recommend that entry into the chamber be undertaken using a specialist team, appropriately qualified for confined space entry. These teams can be supplied on request.

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

SHEET LAYOUT

Sheet 01

Rev	Notes	Drawn	Date

Notes:

Survey is referenced to OS Grid and Level Datum.

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Title: Utility Mapping

Client: Havant Housing Association

Project: 175A West Street, Havant, Hampshire.

Date Completed:	26/09/2019	Post Code:	PO9 1LR
Surveyed:	DJ,TD	Scale:	1/200 (A1 Sheet)
Drawn:	MWS		
Checked:	DJ,TD		
Job No:	SOR016144	Dwg No: 01	Rev: