



MH SW12.13 and SW16 are soakaway/holding tank overflow systems, unable to identify the correct mechanics of the system

Sande Pushed from MH SW08 to End of Trace (EoT). Estimated depth 3.06m.

Electro-Magnetic Scan carried out in-between dense shrubbery/rubbers within site boundary.

Ground Penetrating Radar (GPR) not used within the internal site boundary due to ground conditions and accessibility.

A range of detection methods are used to obtain the underground information produced in this drawing. Variations in the ground conditions can affect the quality of the data and therefore an absolute affirmation cannot be guaranteed.

The identification of any located service should not be treated as infallible. The originating source may not have been traced.

The location and/or identification of a service will not necessarily indicate whether it is live or dead or identify whether it is a single or multiple service where one or more services may be situated above, below or in close proximity of the indicated line.

All depths of metallic features are to centre of the service, depths on drainage runs are to the pipe invert at the manhole and should be treated as an approximate indication.

Underground drainage has been proven for position using traceable sonde methods, unless otherwise stated. No allowance has been made for sub surface entry into manholes or other chambers or voids below ground level, therefore any details relating to depths, sizes etc, are taken from above ground and as such will be approximate only.

Features not traceable by electromagnetic or sonde techniques, have been located using GPR. Scan boxes indicate locations of recorded progressive GPR scans. Features identified in other areas by "immediate Mark Out" methods only.

These results are not infallible and trial holes should be carried out to confirm service identification, position and particularly depths, where these are critical, in accordance with HSG47 - "Avoiding Danger from Underground Services".

- Power Carrying Feature
- Water Main
- Gas Main
- Sewer Foul Water
- Sewer Surface Water
- Sewer Rising Main
- Telecom
- Telecom (Fibre Optic Cable)
- Communications
- Cable Television
- Closed Circuit Television
- Traffic Signalling
- Dust
- Dust (Empty)
- Pipe (use unknown)
- Unknown Metallic Feature
- Chamber
- GPR Detected Feature
- Taken From Records (Any Service)
- Depth to service (applicable to all types)
- End of Trace
- Extent of survey (service continues)
- GPR Scan Box Area (with reference letter)

### Notes

1. Surveyed June 2014.
2. Survey related to Ordnance Survey "OS Net" at control point STN03, using realtime correction received via Leica Geosystems "Smart Net" service. Survey plotted to flat plane metric grid with no local scale factor applied, i.e. LSF 1.00.
3. Levels related to GPS Orthometric height, converted to MSL (Newlyn) by OSGM02.

### Control

STN	East	North	Level	Type
STN01	521508.187	208538.516	75.378	Nail
STN02	521504.000	208561.008	74.798	Nail
STN03	521494.827	208561.589	74.836	Nail
STN04	521518.061	208552.569	74.529	Nail
STN05	521561.107	208564.182	75.450	Nail
STN06	521513.671	208521.364	75.769	Nail

### General

- Every effort is made to identify all visible above ground features. However, it should be borne in mind that at the time of survey, some surface features may have been obscured.
- Visible features in the vicinity of the site extents, as detailed on this survey, may not represent the legally conveyed ownership boundaries.

### Legend

- Top / Bottom of Bank
- Building / Overhead Canopy
- Wall
- Solid Surface Feature / Road Edge
- Hard / Soft Surface Change
- Kerb / Dropped Kerb
- Combined Kerb & Drainage System
- Drainage Channel
- Drainage Channel
- Road Traffic Sensors
- Fence Line
- BW Barbed Wire
- CD Close Boarded
- CHN Chain Link
- CP Concrete Panel PA
- D Dispersed
- Hedge Line
- Tree / Scrub Canopy Line
- Rock Face
- Pipe Line (Above Ground)
- Survey Station
- Gate
- Electric Pylon
- Spot Level
- Woodland Area (Discontinuous)
- Woodland Area (Continuous)
- Marsh Land
- Post & Rail
- Safety Barrier
- Security Fence
- Open Boarded
- Temporary Fence
- Wire Mesh
- Post & Chain
- Bush
- Tree-Deciduous
- Tree-Evergreen

### Feature Abbreviations

ACU Air Conditioning Unit	FH Fire Hydrant	NP Name Plate	SVP Soil Vent Pipe
BB Bellhop Beacon	FL Flood Light	PB Post Box	TAP Stand Pipe
BOU Bellard (L)	FL Fully (with Level)	PM Panking Meter	TCB Telephone Box
BP Boundary Pill	GA Gas	RBB Roadside Ball Box	TEL Telecom's Cover
BS Bus Stop	GC Gas Cover	RS Road Sign	TL Traffic Light
CATV Cable TV Cover	KB Kerb Offset	RSL Road Sign (L)	TP Telephone Pole
CCTV Close Circuit TV	LB Lighting Beacon	RSP Rain Water Pipe	TS Traffic Signal Cover
CDL Column	LB Lamp Post	SNR Sensor	WM Water Meter
CP Concrete Post	LP Lamp Post	SP Sign Post	WO Wash Out
DWB Dog Waste Bin	ME Meter	SPL Sign Post (L)	WV Water Valve
EL Electric Cover	MH Manhole	SPOC Speed Camera	UCI Unknown Cover
EP Electricity Pole	MP Marker Post	STAY Cable Stay	UTL Unable to Lift
ER Earth Rod	MEP Metal Post	SV Valve	Ø Diameter

### Description Abbreviations

Assd Rt Assumed Route	Flw Bid Flower Bed	OHT Overhead	OSM Ordnance Survey
Bdrip Back Drop	FW Foot Water	OSM Ordnance Survey	Bench Mark
Bk Blk Blk	GTP Grease Trap	Reth Wall Retaining Wall	Rd Edge Road Edge
BuSip Bus Stop Kerb	Ht Height	Rd Edge Road Edge	Spd Retd Speed Retarder
Bldg Building	Hg Hedge	Stn Station	Surf Water Surface Water
CDM/RSD Combined Drainage	Intrg Ingress	Stc Tac Tactile Paving	Tarmac Tarmac
Conc Concrete	Ld Level		
CPH Catch Pit	m Metres		
Dp/KB Drop Kerb	ms Millimetres		
Dm Chd Drainage Channel	MSL Mean Sea Level		
	No. Number		

### Level Prefix

AL Arch Level	BL Roof Ridge Level	TL Top of Level	FFL Finished Floor Level
CL Canal Level	BL Roof Level	TL Top of Level	FFL Finished Floor Level
EL Eave Level	BL Roof Level	TL Top of Level	FFL Finished Floor Level
FL Floor Level	BL Roof Level	TL Top of Level	FFL Finished Floor Level
HL Hand Level	BL Roof Level	TL Top of Level	FFL Finished Floor Level
ML Mean Sea Level	BL Roof Level	TL Top of Level	FFL Finished Floor Level
PL Pipe Level	BL Roof Level	TL Top of Level	FFL Finished Floor Level
TL Top of Level	BL Roof Level	TL Top of Level	FFL Finished Floor Level

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No.	Description	Date	Signed

### Revisions

Drawing Status **FINAL**

Surveyed	Date	Scale
WM	27.06.14	1:200

Client **J D Wetherspoon**

Title **Topographical & Utilities Survey**

Project **Proposed Pub/Restaurant Hatfield Hertfordshire**

Drawing No.	3618/10/001	Rev.	-



Clugston Survey Services  
 St Vincent House  
 Normandy Road  
 Southwiche  
 Norm Leicestershire  
 DN15 8DT  
 Tel: 01724 748170  
 Fax: 01724 748171  
 survey@clugston.co.uk  
 www.clugstonsurvey.co.uk