



KEY FOR UNDERGROUND SERVICES

Category	Item	Percentage
Household Products	Combined water	100
	Four star	100
	Surface water	100
	Other	100
	Gas	100
	Electric	100
	Telephone	100
	Cable Tv	100
	Unattended	100
	Cordless Tr	100
Household Appliances	Communications	100
	Hooding Pipe	100
	Empty Cart	100
	Fibre	100
	Vents	100
	Traffic Signal	100
	Gauge Lines	100
	Water Recovery	100
	Oxygen	100
	Fuel	100

Where chamber extents are significantly greater than the cover size, their approximate extents are shown thus:

ABBREVIATION KEY

AR	assumed route	P75	pipe to ground
BS	base bend	P76	pipe to surface
BO	backdrop	RS	rod string
BS	bed level	SW	swallower pipe
BOS	bottom of shell	SV	saw valve
CS	cover seal	SW	swell pipe
CS	cable riser	TS	tripped out
CS	cable pipe	TR	trace from records
ET	end of trace	TR	traverse pipe
FI	fracture/pole	UN	unable to find
FI	five hundred	UN	unable to lift
GI	gully	UN	unable to survey
GV	UTS valve	UN	unable to trace
HC	head of man	UN	unit pipe
HL	high level	WL	water level
LC	lockup chamber	WR	welder marker
S	invert level	WO	wash out valve
WH	workable	W	west
WR	water riser		

UTILITY SURVEY NOTES

ELECTROMAGNETIC AND/OR SOUND PENTESTING AND/OR TECHNIQUES HAVE BEEN USED TO LOCATE AND MAP UNDERGROUND UTILITIES AND FEATURES ON THIS DRAWING. MANIPULATE HAVE MADE EVERY EFFORT TO MAKE SURE THAT THE INFORMATION CONTAINED WITHIN THIS DRAWING IS ACCURATE AND OF THE HIGHEST QUALITY. HOWEVER, THE USER ASSUMES ALL RISKS OF INADEQUATE INFORMATION, INACCURATE INFORMATION, OR DEPTH OF SERVICE/FEATURES BE OF PARTICULAR IMPORTANCE TO A PROJECT, THEN IT IS STRONGLY ADVISED THAT FINAL DECISIONS SHOULD BE INFORMED BY CONSIDER SURVEY RESULTS.

MANIPULATE HAVE USED ALL RECORD DRAWINGS THAT WERE AVAILABLE TO US BY THE CLIENT OR BY THE STAFF/OWNER. THE INFORMATION CONTAINED HEREIN IS BASED ON THE RECORDS AND SURVEY DATA. THESE DRAWINGS (IF ANY) ARE NOT GUARANTEED. SERVICES LOCATED FROM RECORD DRAWINGS WILL BE SHOWN AND INDICATED AS SUCH FROM RECORDS (ONLY). HISTORIC RECORD INFORMATION IS OFTEN INCOMPLETE/INACCURATE AND CANNOT BE RELIED UPON.

A SINGLE LINE INDICATING A UTILITY MAY INDICATE THE PRESENCE OF MULTIPLE SERVICES WITHIN CLOSE PROXIMITY TO EACH OTHER. WHERE A SINGLE LINE IS SHOWN WE RECOMMEND HAND DIGGING WITHIN 6" TO EXPOSE

WHERE COATED, DEPTH INFORMATION OF UNDERGROUND SERVICES/UTILITIES IS STATED, DEPTHS ARE GENERALLY WITHIN +/- 10% ACCURATE, BUT CANNOT BE GUARANTEED. ANY DEPTHS SHOWN ARE USUALLY TO THE TOP OF THE SERVICE/UTILITY. UTILITY OWNERS AND OWNERS ARE USUALLY TO INVEST RANGE OF DEPTH/NEEDED CHANNELS UNLESS OTHERWISE STATED.

AS NARRATIVE BE USE DOLLY STAFF AND RECORD CALIBRATED EQUIPMENT TO PERFORM OUR SURVEYS. HOWEVER, THE COMPLETENESS OF ANY UNDERGROUND SURVEY CANNOT BE 100% GUARANTEED AND WE CANNOT BE HELD RESPONSIBLE FOR ANY MISADVENTURES BEYOND THOSE THAT COULD BE REASONABLY EXPECTED BY A COMPETENT COMPANY.

CONTRACTORS UTILIZING OUR SERVICES FOR INTEREST WORK SHOULD TAKE ALL REASONABLE MEASURES TO AVOID

SAFETY IS A TOP PRIORITY. REFERENCE THE FOLLOWING GUIDELINES TO AVOID ACCIDENTS FROM UNDERGROUND SERVICES:
SEE SPECIFIC NOTES-
ANY SERVICE IN THE LINE TYPE TYPED OR WRITTEN ON THE DRAWING IS TO BE USED AS A GUIDE ONLY AND IS NOT TO BE TREATED AS ACCURATE.
THERE WERE SEVERAL AREAS OF VEGETATION THAT WERE UNABLE TO SURVIVE DUE TO A COMPLETE LACK OF ACCESS. ALL SUCH AREAS HAVE BEEN INDICATED ON THE DRAWING.
THE UTILITY SURVEY AREA IS INDICATED ON THE DRAWING WITHIN THE LAYER LG-SURVEY BOUNDARY.

Key:

Av	Air valve	Gy	Girth circumference	Sv	Ship value
Bg	Back gully	Gy	Gully	TCB	Telephone call board
BH	Benchmark	HC	Height	TLT	Time log level
BM	Borehole	IC	Inspection cover	TLH	Threshold level
BN	Bottom flow line	ICB	Internal flow line	TCSB	Top of steel level
Bs	Bus stop	IL	Inner level	TLH	Traffic light
BT	Bottom Telecom	LB	Lower box	TLH	Threshold level
Bq	Back Gully	LP	Lamp Post	Tp	Tempergauge post
C	Cover Level	MG	Manholes	Ts	Traffic signal
CBK	Control box	NH	Noise	TLT	Time to level
CPS	Cables paving side	NVP	Manhole pipe	U	Unit
CTV	Cable TV cable	NVP	No visible pipes	UTL	Under to lift
ED	Electric cover	PWP	Pipe work	W	Water level
Ed	Electric box	PWP	Pipe work	Wm	Water meter
Er	Early stop	Rd	Road	Wm	Water meter
Fh	Fire hydrant	Sg	Stop sign	W	Work out
Fs	Flagstaff	Sl	Stop sign		

Road	-----	Verge Grass	-----
Drop Kerb	-----	Verge	-----
Verge Tarmac	-----	Tops	-----
Verge Concrete	-----	Bottoms	-----

Ordnance Survey information is provided for a guide only.

—— OS BUILDING OUTLINE

—— OS DETAIL

Station	Easting (m)	Northing (m)	Level (m)
M1	398517.354	278691.699	208.268
M2	398566.035	278755.602	209.325
M3	398710.012	278773.404	211.702

REV	DATE	DESCRIPTION OF WORK	SURVEYOR	CHECKED BY
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SETTING-OUT ■ UTILITY SURVEYS ■ CAMERA SURVEYS ■ FLOOD-RISK ASSESSMENT
AERIAL PHOTOGRAPHY ■ EARTHWORK CALCULATIONS ■ MEASURED-BUILDING SURVEYS ■ TOPOGRAPHICAL SURVEYS

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CLIENT	GM3
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Abstract

1000

PROJECT

Boleyn Road

Birmingham

B45 OND

TITLE Transcendental & Utilitarianism

Topographical & Utility
Survey

Survey	

Scale	1: 200@A0	Date	11.08.2020
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Drawn	JT, JH	Checked	AW
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Level datum	GNSS	Grid orientation	GNSS
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Job number	3753	Revision	0
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Drawing no.	0001	Sheet	2 of 2
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Drawing No. 0001	Sheet 2 of 2
Notes:	

Notes:

All critical measurements should be checked on site prior to design. No liability will be taken for this plan if

passed onto 3rd parties. Trees and other survey data may be omitted due to dense vegetation. Some services may have been omitted due to parked vehicles and vegetation. Please note the drainage information has been ascertained by visual inspection from the surface and therefore values are estimated.

This survey has been orientated to the Ordnance Survey (OS) national grid via a Global Navigation Satellite System (GNSS) and the OS Active Network (OS NET). A true OSGRDG coordinate has been established near to the site centre via a transformation using the OSTN15 & OSMD15 transformation

models. The survey has been correlated to this point and a further one or more CGCS83 points established to create a true CG bearing for angle orientation. No scale factor has been applied to the survey therefore the coordinates shown are arbitrary and not true CG coordinates.

Please refer to the survey station table to enable establishment of the on-site grid.



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