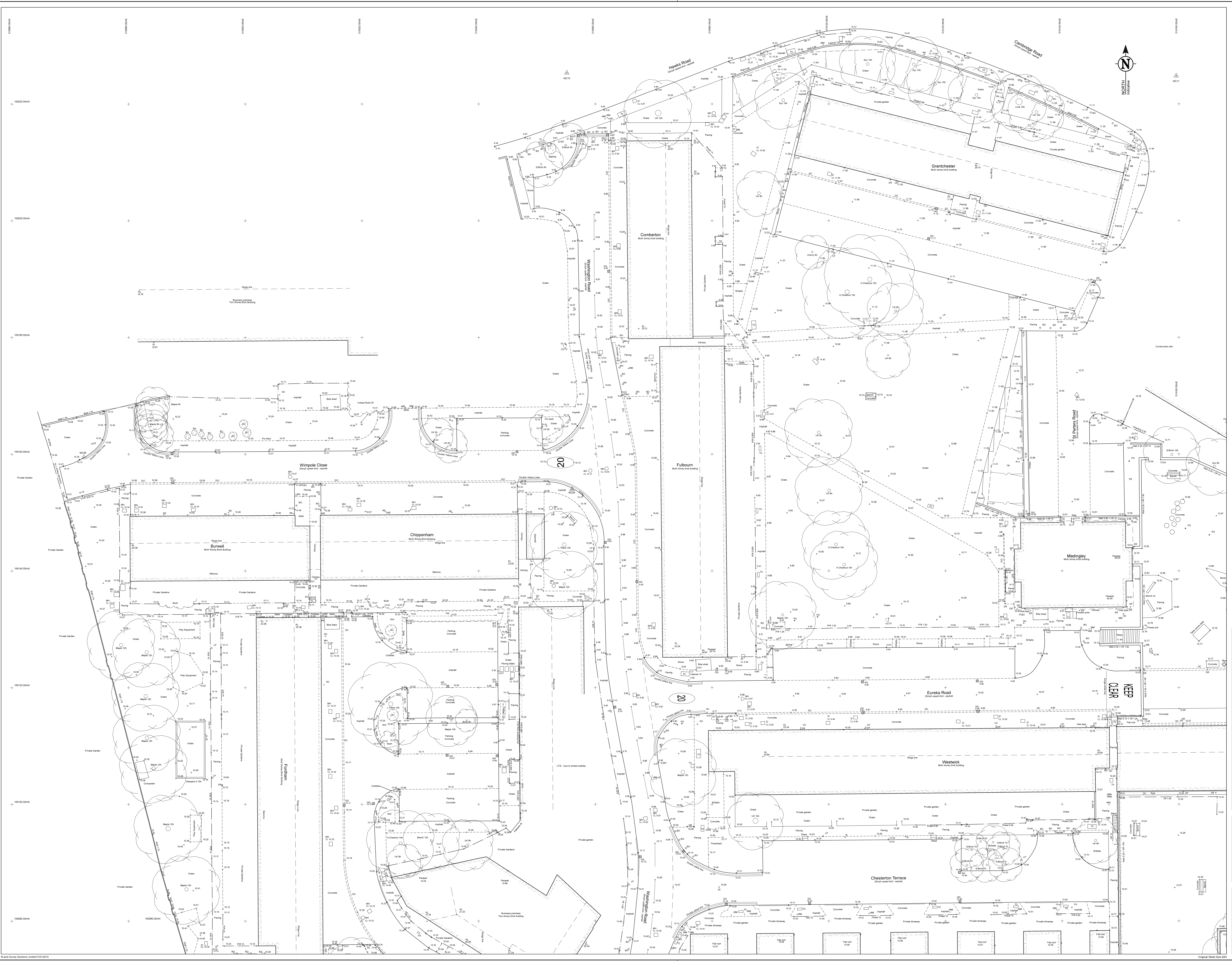


Appendix C – Topographical Survey



TOPOGRAPHICAL & MEASURED BUILDING SURVEYS

ABBREVIATIONS & SYMBOLS

AA	Arch Height	FL	Fire Hydrant	RSJ	Roof Sill Joint
AB	Asbestos Panel	FB	Fire Board	SG	Sign Post
AV	Air Valve	FL	Fire Level	SP	Arch Spring Post Height
BB	Bottle Bottom	FL	First Level	SV	Sign Valve
BR	Bore Hole	FP	Flag Post	SW	Surface Water
BL	Block Level	FL	Flag	SV	Sign Valve
BD	Bulb	GG	Gully Grate	TC	Traverse Corner
BP	Bus Stop	GA	Gas Valve	TC	Traverse Corner
BS	Bus Stop	HT	Head Height	TH	Trap Pit
BZ	Bush	IC	Inspector Cover	TL	Traverse Line
BW	Basket Ball Hoop	IL	Iron Level	TL	Traverse Light
BC	Bracon	IR	Iron Range	TL	Traverse Line
CB	Class Book Fence	FL	First Level	TV	Traverse Pole
CC	Cable Clamp	FL	First Level	TV	Traverse Pole
CL	Chain Link Fence	MP	Manhole Post	UC	Uncovered Corner
CM	Chain Mail	MP	Manhole Post	UC	Uncovered Corner
CO	Coast	DL	Downfall Line (approx)	USB	Under Side Beam
CP	Control Point	FL	First Level	USB	Under Side Beam
CR	Cable Rest	FL	First Level	USB	Under Side Beam
CS	Cable Street	FL	First Level	USB	Under Side Beam
CT	Cable Street	FL	First Level	USB	Under Side Beam
CV	Cable Street	FL	First Level	USB	Under Side Beam
DO	Door Head Height	PO	Post	USB	Under Side Beam
DP	Door Post	PO	Post	USB	Under Side Beam
DR	Drain	PP	Post	USB	Under Side Beam
EL	Electric Line	PP	Post	USB	Under Side Beam
EM	Earth Mat	PP	Post	USB	Under Side Beam
EP	Electric Pole	PP	Post	USB	Under Side Beam
ER	Earth Road	PP	Post	USB	Under Side Beam
ET	ET Transformer	PP	Post	USB	Under Side Beam
FB	Front Foot	PP	Post	USB	Under Side Beam
FD	Front Board Cavity	PP	Post	USB	Under Side Beam
FE	Front Foot	PP	Post	USB	Under Side Beam
FB	Front Board Cavity	PP	Post	USB	Under Side Beam
FD	Front Board Cavity	PP	Post	USB	Under Side Beam

DRAWING NOTE

Topographical Surveys

Trees are drawn to scale showing the average canopy spread. Descriptions and heights should be used as a guide only.

All building names, descriptions, number of storeys, construction type including roof line details are indicative only and taken externally from ground level.

All below ground details including drainage, voids and services have been identified from above ground and therefore all details relating to these features including: sizes, depth, description etc will be approximate only. All critical dimensions and connections should be checked and verified prior to starting work.

Datums, services and features may not have been surveyed if obstructed or not reasonably visible at the time of the survey.

Measured Building Surveys

Measurements to internal walls are taken to the wall finishes at approx 1m above the floor level and the wall assumed to be vertical.

Cell heights are measured as floor to the sill and head heights are measured from sill to the top of window.

General

The contractor must check and verify all site and building dimensions, levels, utilities and drainage details and connections prior to commencing work. Any errors or discrepancies must be notified to Survey Solutions immediately.

The accuracy of the digital data is the same as the plotting scale implies. All dimensions are in metres unless otherwise stated.

The survey control used is only to be used for topographical surveys at the stated scale. All control must be checked and verified prior to use.

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Do not scale from this drawing.

SURVEY GRID AND LEVEL DATUM

The co-ordinate system established for this survey is related to Ordnance Survey (OS) national grid at a single point using GPS Smartnet, then orientated to Grid North with a scale factor of 1.000.

The level datum established for this survey is related to Ordnance Survey (OS) using GPS Smartnet.

To avoid discrepancies, any co-ordinated data used in conjunction with this survey must be derived directly from the control data.

The major contour interval is 1 metre, the minor contour interval is 0.500 metres.

CONTROL CO-ORDINATES

GRID	DESCRIPTION	Easting	Northing	Level	Description
MC01	19154.446	109022.319	12.405	19.200	PP Nail
MC02	19154.443	109022.278	14.131	19.200	PP Nail
MC03	19154.440	109022.237	15.857	19.200	PP Nail
MC04	19154.437	109022.196	17.583	19.200	PP Nail
MC05	19154.434	109022.155	19.309	19.200	PP Nail
MC06	19154.431	109022.114	21.035	19.200	PP Nail
MC07	19154.428	109022.073	22.761	19.200	PP Nail
MC08	19154.425	109022.032	24.487	19.200	PP Nail
MC09	19154.422	109021.991	26.213	19.200	PP Nail
MC10	19154.419	109021.950	27.939	19.200	PP Nail
MC11	19154.416	109021.909	29.665	19.200	PP Nail
MC12	19154.413	109021.868	31.391	19.200	PP Nail
MC13	19154.410	109021.827	33.117	19.200	PP Nail
MC14	19154.407	109021.786	34.843	19.200	PP Nail
MC15	19154.404	109021.745	36.569	19.200	PP Nail
MC16	19154.401	109021.704	38.295	19.200	PP Nail
MC17	19154.398	109021.663	40.021	19.200	PP Nail
MC18	19154.395	109021.622	41.747	19.200	PP Nail
MC19	19154.392	109021.581	43.473	19.200	PP Nail
MC20	19154.389	109021.540	45.199	19.200	PP Nail
MC21	19154.386	109021.499	46.925	19.200	PP Nail

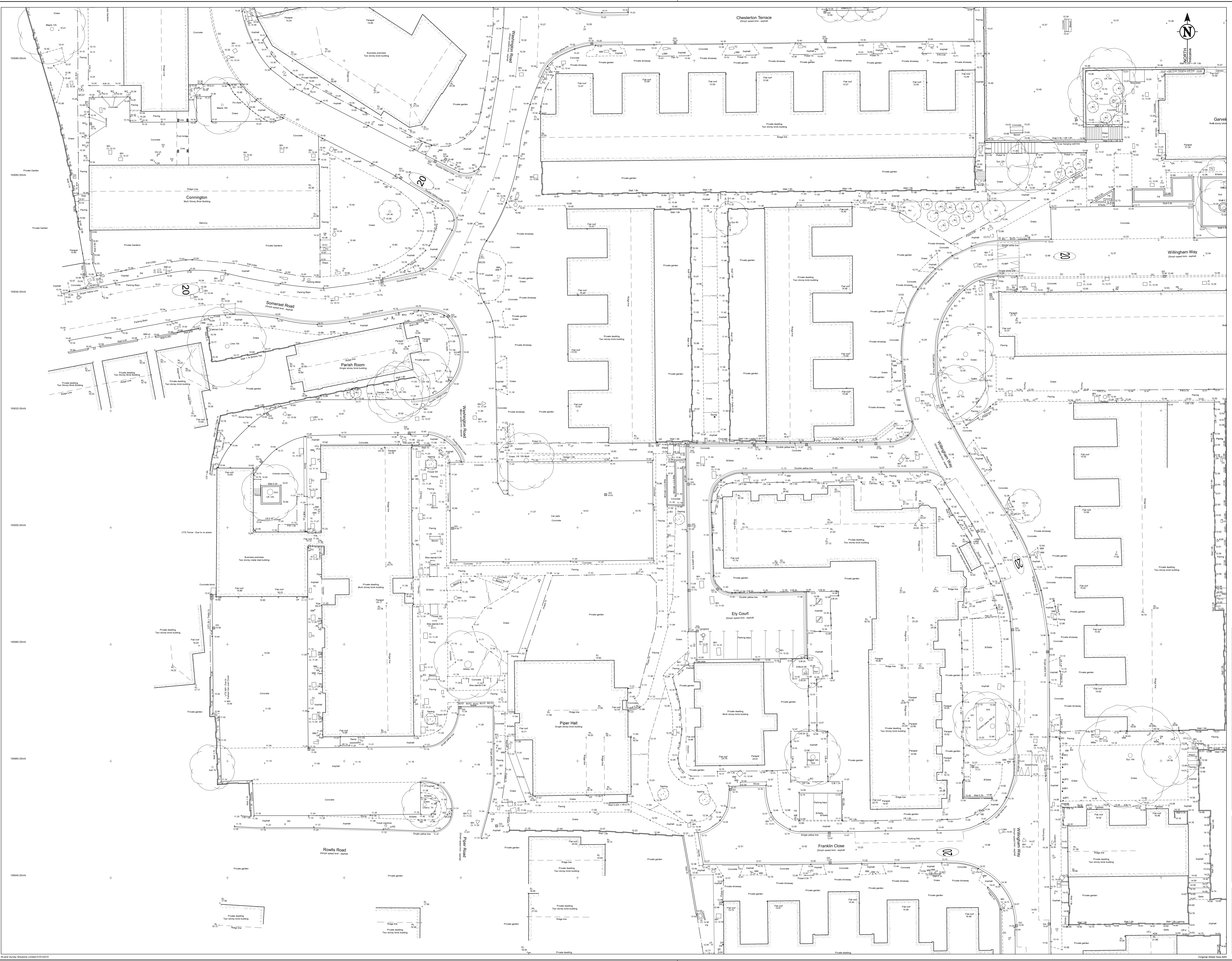
SURVEY SOLUTIONS

Ipswich Coventry Yeovil Norwich Perth Nottingham Brentwood

Tel: 0845 0455 989 Fax: 0845 0455 070
 www.survey-solutions.co.uk enquiries@survey-solutions.co.uk

LAND SURVEYING BUILDING SURVEYING UNDERGROUND SURVEYING

PROJECT TITLE			
CAMBRIDGE ROAD ESTATE, KINGSTON UPON THAMES, KT1 3JL			
DRAWING DETAILS			
TOPOGRAPHICAL SURVEY			
Sheet 1 of 5			
CLIENT	ARDENT CONSULTING ENGINEERS	SCALE	1:200
SURVEYOR	SURVEY DATE	CHECKED BY	APPROVED BY
PH, SB, BK	10/07/2017	AK, JM	JM
DRAWING NUMBER	20085se-01	REVISION	ISSUE DATE
			11/08/2017



TOPOGRAPHICAL & MEASURED BUILDING SURVEYS

ABBREVIATIONS & SYMBOLS

AA	Arch Height	FL	Fire Hydrant	RSJ	Roof Steel Joist
AA	Arch Height	FB	Floor Board	SI	Sig Flag
AA	Arch Height	FL	Fire Hydrant	SP	Arch Spring Post
AA	Arch Height	FL	Fire Hydrant	ST	Step
AA	Arch Height	FL	Fire Hydrant	SV	Arch Spring Post
AA	Arch Height	FL	Fire Hydrant	SW	Surface Water
AA	Arch Height	FL	Fire Hydrant	TV	TV
AA	Arch Height	FL	Fire Hydrant	UC	Under Coat
AA	Arch Height	FL	Fire Hydrant	US	Under Size
AA	Arch Height	FL	Fire Hydrant	UT	Under Top
AA	Arch Height	FL	Fire Hydrant	VP	Vertical Pipe
AA	Arch Height	FL	Fire Hydrant	VS	Vertical Shaft
AA	Arch Height	FL	Fire Hydrant	W	Wall
AA	Arch Height	FL	Fire Hydrant	WC	Water Course
AA	Arch Height	FL	Fire Hydrant	WD	Water Drain
AA	Arch Height	FL	Fire Hydrant	WE	Water Elevation
AA	Arch Height	FL	Fire Hydrant	WF	Water Flow
AA	Arch Height	FL	Fire Hydrant	WG	Water Gauge
AA	Arch Height	FL	Fire Hydrant	WH	Water Head
AA	Arch Height	FL	Fire Hydrant	WI	Water Inlet
AA	Arch Height	FL	Fire Hydrant	WO	Water Outlet
AA	Arch Height	FL	Fire Hydrant	WS	Water Stop
AA	Arch Height	FL	Fire Hydrant	WT	Water Tank
AA	Arch Height	FL	Fire Hydrant	WV	Water Valve
AA	Arch Height	FL	Fire Hydrant	WY	Water Yoke
AA	Arch Height	FL	Fire Hydrant	X	Unknown
AA	Arch Height	FL	Fire Hydrant	Y	Unknown
AA	Arch Height	FL	Fire Hydrant	Z	Unknown

DRAWING NOTE

Topographical Surveys
 Trees are drawn to scale showing the average canopy spread. Descriptions and heights should be used as a guide only.
 All building names, descriptions, number of storeys, construction type including roof line details are indicative only and taken externally from ground level.
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 The level datum established for this survey is related to Ordnance Survey (OS) using GPS Smartnet.
 To avoid discrepancies, any co-ordinated data used in conjunction with this survey must be derived directly from this control data.
 The major contour interval is 1 metre, the minor contour interval is 0.500 metres.

CONTROL CO-ORDINATES

STATION	EASTING	NORTHING	LEVEL	DESCRIPTION
MC01	519154.446	109022.318	12.405	Pt Nail
MC02	519154.413	109022.228	10.200	Pt Nail
MC03	519055.000	108859.878	14.131	Pt Nail
MC04	519055.000	108925.025	11.311	Pt Nail
MC05	519055.000	109461.301	10.945	Pt Nail
MC06	519055.000	109461.301	10.945	Pt Nail
MC07	519055.000	109071.054	10.286	Pt Nail
MC08	519055.000	109143.453	8.910	Pt Nail
MC09	519055.000	109153.956	10.173	Pt Nail
MC10	519055.000	109224.025	8.910	Pt Nail
MC11	519154.446	109224.025	11.618	Pt Nail
MC12	519055.000	109124.448	10.235	Pt Nail
MC13	519055.000	109124.448	10.235	Pt Nail
MC14	519055.000	109066.927	10.234	Pt Nail
MC15	519055.000	109066.927	10.234	Pt Nail
MC16	519055.000	109066.927	10.234	Pt Nail
MC17	519055.000	109066.927	10.234	Pt Nail
MC18	519055.000	109066.927	10.234	Pt Nail
MC19	519055.000	109066.927	10.234	Pt Nail
MC20	519055.000	109066.927	10.234	Pt Nail
MC21	519055.000	109066.927	10.234	Pt Nail
MC22	519055.000	109066.927	10.234	Pt Nail
MC23	519055.000	109066.927	10.234	Pt Nail

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 LAND SURVEYING BUILDING SURVEYING UNDERGROUND SURVEYING

PROJECT TITLE
 CAMBRIDGE ROAD ESTATE,
 KINGSTON UPON THAMES, KT1 3JL.

DRAWING DETAILS
 TOPOGRAPHICAL SURVEY
 Sheet 2 of 5

CLIENT	ARDENT CONSULTING ENGINEERS	SCALE	1:200
SURVEYOR	PH: SB	CHECKED BY	JM
SURVEY DATE	10/07/2017	APPROVED BY	AK
DRAWING NUMBER	20085se-02	ISSUE DATE	11/08/2017