

Croudace STRATEGIC	
SITE TITLE	
SITE TITLE	
GENERAL LAYOUT	
SCALE : 1/200	
DATE : DATE	
DRAWN : INITIALS	
CHECKED :	
DRG.No. : 000/30	
☐	

[illegible]

TREE LEGEND			
ALDER	ALD	MAPLE	MPF
ASH	ASH	PIE	PIE
ASPEN	ASP	PINE	PNE
BIRCH	BIR	POPLAR	POP
CEDAR	CED	PRUNUS	PRU
CHERRY	CHY	RHODODENDRON	RHO
COGNATEOUS	CON	ROWAN	RWN
CYPRESS	CYP	SALIC	SAL
DEARBERRY	DEB	SWEET THYESTRUS	SWT
ELDER	ELD	VALERIAN	VAL
ELM	ELM	SERVICE	SER
EUFRASIVUS	EFU	SPRUCE	SPR
FIR	FIR	STAGHORN	STG
GUM	GUM	THORN	THR
HORN	HOR	TRIFOLIUM ALBA	TRF
HORN	HOR	WATERBURY	WBR
HORN	HOR	WILLOW	WIL
HORN	HOR	WALNUT	WNT
HORN	HOR	YEW	YEW
LYNCH BARK TREE	LYB		
LYNCH BARK	LYB	MULTI-TRUNK	MT
LYNCH BARK	LYB		
LYNCH BARK	LYB	REFER TO	
LYNCH BARK	LYB	EXEMPLE	
LYNCH BARK	LYB	ON SHEET 1234	
LYNCH BARK	LYB		

SIZES AND SPACES ARE INDICATIVE ONLY WITH THE MEAN SPREAD DRAWN TO SCALE.

UNDERGROUND SERVICES LEGEND

FOUL/COMBINED WATER DRAINAGE		100' FM
SURFACE WATER DRAINAGE		225' SW
LV ELECTRIC CABLES		
HV ELECTRIC CABLES		
TELEPHONE		
WATER		
UNIDENTIFIED		
CABLE TV		
CITY		
GROUND PENETRATING RADAR		
END OF TRACE		EDT
END OF TRENCH SCAR		ESG0

WHERE CHAMBER EXTENTS ARE SIGNIFICANTLY GREATER THAN THE COVER SIZE,
THEIR APPROXIMATE EXTENTS ARE SHOWN INSIDE.

ABBREVIATIONS FOR UNDERGROUND SERVICES			
AC	ALBERTO GARDIA	MP	MAKER PLOT
ALC	ALCO	NP	NO FURTHER INFORMATION
AM	AMERICAN	NR	NOT RECORDED
AN	AND	NT	NOT RETURNED
BA	BAD	PL	PLANT
BB	BAD	PP	PERIODICALLY
BC	BAD	PR	PERIODIC INFORMATION
BD	BAD	PS	PERSONNEL
BE	BAD	PT	PERSONNEL
BF	BAD	Q	QUESTIONS
BI	BAD	QD	QUESTIONS
BJ	BAD	QF	QUESTIONS
BK	BAD	QI	QUESTIONS
BL	BAD	QJ	QUESTIONS
BM	BAD	QK	QUESTIONS
BN	BAD	QL	QUESTIONS
BO	BAD	QM	QUESTIONS
BP	BAD	QN	QUESTIONS
BQ	BAD	QO	QUESTIONS
BR	BAD	QP	QUESTIONS
BS	BAD	QR	QUESTIONS
BT	BAD	QS	QUESTIONS
BU	BAD	QT	QUESTIONS
BV	BAD	QU	QUESTIONS
BW	BAD	QV	QUESTIONS
BX	BAD	QW	QUESTIONS
BY	BAD	QX	QUESTIONS
BZ	BAD	QY	QUESTIONS
CA	CAD	QZ	QUESTIONS
CB	CAD	RA	RECEIVED
CC	CAD	RB	RECEIVED
CD	CAD	RC	RECEIVED
CE	CAD	RD	RECEIVED
CF	CAD	RE	RECEIVED
CG	CAD	RF	RECEIVED
CH	CAD	RG	RECEIVED
CI	CAD	RH	RECEIVED
CJ	CAD	RI	RECEIVED
CK	CAD	RJ	RECEIVED
CL	CAD	RK	RECEIVED
CM	CAD	RL	RECEIVED
CN	CAD	RM	RECEIVED
CO	CAD	RO	RECEIVED
CP	CAD	RP	RECEIVED
CQ	CAD	RR	RECEIVED
CR	CAD	RS	RECEIVED
CS	CAD	RT	RECEIVED
CT	CAD	RU	RECEIVED
CU	CAD	RV	RECEIVED
CV	CAD	RW	RECEIVED
CW	CAD	RX	RECEIVED
CX	CAD	RY	RECEIVED
CY	CAD	RZ	RECEIVED
DA	DAN	SA	RECEIVED
DB	DAN	SB	RECEIVED
DC	DAN	SC	RECEIVED
DD	DAN	SD	RECEIVED
DE	DAN	SE	RECEIVED
DF	DAN	SF	RECEIVED
DG	DAN	SG	RECEIVED
DH	DAN	SH	RECEIVED
DI	DAN	SI	RECEIVED
DJ	DAN	SJ	RECEIVED
DK	DAN	SK	RECEIVED
DL	DAN	SL	RECEIVED
DM	DAN	SM	RECEIVED
DN	DAN	SN	RECEIVED
DO	DAN	SO	RECEIVED
DP	DAN	SP	RECEIVED
DQ	DAN	SQ	RECEIVED
DR	DAN	SR	RECEIVED
DS	DAN	SS	RECEIVED
DT	DAN	ST	RECEIVED
DU	DAN	SV	RECEIVED
DV	DAN	SW	RECEIVED
DW	DAN	SX	RECEIVED
DX	DAN	SY	RECEIVED
DY	DAN	SZ	RECEIVED
EA	EAST	TA	RECEIVED
EB	EAST	TB	RECEIVED
EC	EAST	TC	RECEIVED
ED	EAST	TD	RECEIVED
EE	EAST	TE	RECEIVED
EF	EAST	TF	RECEIVED
EG	EAST	TG	RECEIVED
EH	EAST	TH	RECEIVED
EI	EAST	TI	RECEIVED
EJ	EAST	TJ	RECEIVED
EK	EAST	TK	RECEIVED
EL	EAST	TL	RECEIVED
EM	EAST	TM	RECEIVED
EN	EAST	TN	RECEIVED
EO	EAST	TO	RECEIVED
EP	EAST	TP	RECEIVED
EQ	EAST	TQ	RECEIVED
ER	EAST	TR	RECEIVED
ES	EAST	TS	RECEIVED
ET	EAST	TT	RECEIVED
EU	EAST	TU	RECEIVED
EV	EAST	TV	RECEIVED
EW	EAST	TV	RECEIVED
EX	EAST	TV	RECEIVED
EY	EAST	TV	RECEIVED
FA	FAMILY	WA	RECEIVED
FB	FAMILY	WB	RECEIVED
FC	FAMILY	WC	RECEIVED
FD	FAMILY	WD	RECEIVED
FE	FAMILY	WE	RECEIVED
FF	FAMILY	WF	RECEIVED
FG	FAMILY	WG	RECEIVED
FH	FAMILY	WH	RECEIVED
FI	FAMILY	WI	RECEIVED
FJ	FAMILY	WJ	RECEIVED
FK	FAMILY	WK	RECEIVED
FL	FAMILY	WL	RECEIVED
FM	FAMILY	WM	RECEIVED
FN	FAMILY	WN	RECEIVED
FO	FAMILY	WO	RECEIVED
FP	FAMILY	WP	RECEIVED
FQ	FAMILY	WQ	RECEIVED
FR	FAMILY	WR	RECEIVED
FS	FAMILY	WS	RECEIVED
FT	FAMILY	WT	RECEIVED
FU	FAMILY	WU	RECEIVED
FV	FAMILY	WV	RECEIVED
FW	FAMILY	WV	RECEIVED
FX	FAMILY	WV	RECEIVED
FY	FAMILY	WV	RECEIVED
GA	GARDIA	XA	RECEIVED
GB	GARDIA	XB	RECEIVED
GC	GARDIA	XC	RECEIVED
GD	GARDIA	XD	RECEIVED
GE	GARDIA	XE	RECEIVED
GF	GARDIA	XF	RECEIVED
GG	GARDIA	XF	RECEIVED
GH	GARDIA	XF	RECEIVED
GI	GARDIA	XF	RECEIVED
GJ	GARDIA	XF	RECEIVED
GK	GARDIA	XF	RECEIVED
GL	GARDIA	XF	RECEIVED
GM	GARDIA	XF	RECEIVED
GN	GARDIA	XF	RECEIVED
GO	GARDIA	XF	RECEIVED
GP	GARDIA	XF	RECEIVED
GQ	GARDIA	XF	RECEIVED
GR	GARDIA	XF	RECEIVED
GS	GARDIA	XF	RECEIVED
GT	GARDIA	XF	RECEIVED
GU	GARDIA	XF	RECEIVED
GV	GARDIA	XF	RECEIVED
GW	GARDIA	XF	RECEIVED
GX	GARDIA	XF	RECEIVED
GY	GARDIA	XF	RECEIVED
HA	HAND	YA	RECEIVED
HB	HAND	YB	RECEIVED
HC	HAND	YC	RECEIVED
HD	HAND	YD	RECEIVED
HE	HAND	YE	RECEIVED
HF	HAND	YF	RECEIVED
HG	HAND	YF	RECEIVED
HH	HAND	YF	RECEIVED
HI	HAND	YF	RECEIVED
HJ	HAND	YF	RECEIVED
HK	HAND	YF	RECEIVED
HL	HAND	YF	RECEIVED
HM	HAND	YF	RECEIVED
HN	HAND	YF	RECEIVED
HO	HAND	YF	RECEIVED
HP	HAND	YF	RECEIVED
HQ	HAND	YF	RECEIVED
HR	HAND	YF	RECEIVED
HS	HAND	YF	RECEIVED
HT	HAND	YF	RECEIVED
HU	HAND	YF	RECEIVED
HV	HAND	YF	RECEIVED
HW	HAND	YF	RECEIVED
HX	HAND	YF	RECEIVED
HY	HAND	YF	RECEIVED
IA	INDIA	ZA	RECEIVED
IB	INDIA	ZB	RECEIVED
IC	INDIA	ZC	RECEIVED
ID	INDIA	ZD	RECEIVED
IE	INDIA	ZE	RECEIVED
IF	INDIA	ZF	RECEIVED
IG	INDIA	ZF	RECEIVED
IH	INDIA	ZF	RECEIVED
II	INDIA	ZF	RECEIVED
IJ	INDIA	ZF	RECEIVED
IK	INDIA	ZF	RECEIVED
IL	INDIA	ZF	RECEIVED
IM	INDIA	ZF	RECEIVED
IN	INDIA	ZF	RECEIVED
IO	INDIA	ZF	RECEIVED
IP	INDIA	ZF	RECEIVED
IQ	INDIA	ZF	RECEIVED
IR	INDIA	ZF	RECEIVED
IS	INDIA	ZF	RECEIVED
IT	INDIA	ZF	RECEIVED
IU	INDIA	ZF	RECEIVED
IV	INDIA	ZF	RECEIVED
IW	INDIA	ZF	RECEIVED
IX	INDIA	ZF	RECEIVED
IY	INDIA	ZF	RECEIVED
JA	JAN	JA	RECEIVED
JB	JAN	JB	RECEIVED
JC	JAN	JC	RECEIVED
JD	JAN	JD	RECEIVED
JE	JAN	JE	RECEIVED
JF	JAN	JF	RECEIVED
JG	JAN	JF	RECEIVED
JH	JAN	JF	RECEIVED
JI	JAN	JF	RECEIVED
JJ	JAN	JF	RECEIVED
JK	JAN	JF	RECEIVED
JL	JAN	JF	RECEIVED
JM	JAN	JF	RECEIVED
JN	JAN	JF	RECEIVED
JO	JAN	JF	RECEIVED
JP	JAN	JF	RECEIVED
JQ	JAN	JF	RECEIVED
JR	JAN	JF	RECEIVED
JS	JAN	JF	RECEIVED
JT	JAN	JF	RECEIVED
JU	JAN	JF	RECEIVED
JV	JAN	JF	RECEIVED
JW	JAN	JF	RECEIVED
JX	JAN	JF	RECEIVED
JY	JAN	JF	RECEIVED
KA	KAR	KA	RECEIVED
KB	KAR	KB	RECEIVED
KC	KAR	KC	RECEIVED
KD	KAR	KD	RECEIVED
KE	KAR	KE	RECEIVED
KF	KAR	KF	RECEIVED
KG	KAR	KF	RECEIVED
KH	KAR	KF	RECEIVED
KI	KAR	KF	RECEIVED
KJ	KAR	KF	RECEIVED
KK	KAR	KF	RECEIVED
KL	KAR	KF	RECEIVED
KM	KAR	KF	RECEIVED
KN	KAR	KF	RECEIVED
KO	KAR	KF	RECEIVED
KP	KAR	KF	RECEIVED
KQ	KAR	KF	RECEIVED
KR	KAR	KF	RECEIVED
KS	KAR	KF	RECEIVED
KT	KAR	KF	RECEIVED
KU	KAR	KF	RECEIVED
KV	KAR	KF	RECEIVED
KW	KAR	KF	RECEIVED
KX	KAR	KF	RECEIVED
KY	KAR	KF	RECEIVED
LA	LAW	LA	RECEIVED
LB	LAW	LB	RECEIVED
LC	LAW	LC	RECEIVED
LD	LAW	LD	RECEIVED
LE	LAW	LE	RECEIVED
LF	LAW	LF	RECEIVED
LG	LAW	LF	RECEIVED
LH	LAW	LF	RECEIVED
LI	LAW	LF	RECEIVED
LJ	LAW	LF	RECEIVED
LK	LAW	LF	RECEIVED
LL	LAW	LF	RECEIVED
LM	LAW	LF	RECEIVED
LN	LAW	LF	RECEIVED
LO	LAW	LF	RECEIVED
LP	LAW	LF	RECEIVED
LQ	LAW	LF	RECEIVED
LR	LAW	LF	RECEIVED
LS	LAW	LF	RECEIVED
LT	LAW	LF	RECEIVED
LU	LAW	LF	RECEIVED
LV	LAW	LF	RECEIVED
LW	LAW	LF	RECEIVED
LX	LAW	LF	RECEIVED
LY	LAW	LF	RECEIVED
MA	MAD	MA	RECEIVED
MB	MAD	MB	RECEIVED
MC	MAD	MC	RECEIVED
MD	MAD	MD	RECEIVED
ME	MAD	ME	RECEIVED
MF	MAD	MF	RECEIVED
MG	MAD	MF	RECEIVED
MH	MAD	MF	RECEIVED
MI	MAD	MF	RECEIVED
MJ	MAD	MF	RECEIVED
MK	MAD	MF	RECEIVED
ML	MAD	MF	RECEIVED
MM	MAD	MF	RECEIVED
MN	MAD	MF	RECEIVED
MO	MAD	MF	RECEIVED
MP	MAD	MF	RECEIVED
MQ	MAD	MF	RECEIVED
MR	MAD	MF	RECEIVED
MS	MAD	MF	RECEIVED
MT	MAD	MF	RECEIVED
MU	MAD	MF	RECEIVED
MV	MAD	MF	RECEIVED
MW	MAD	MF	RECEIVED
MX	MAD	MF	RECEIVED
MY	MAD	MF	RECEIVED
NA	NAD	NA	RECEIVED
NB	NAD	NB	RECEIVED
NC	NAD	NC	RECEIVED
ND	NAD	ND	RECEIVED
NE	NAD	NE	RECEIVED
NF	NAD	NF	RECEIVED
NG	NAD	NF	RECEIVED
NH	NAD	NF	RECEIVED
NI	NAD	NF	RECEIVED
NJ	NAD	NF	RECEIVED
NK	NAD	NF	RECEIVED
NL	NAD	NF	RECEIVED
NM	NAD	NF	RECEIVED
NN	NAD	NF	RECEIVED
NO	NAD	NF	RECEIVED
NP	NAD	NF	RECEIVED
NQ	NAD	NF	RECEIVED
NR	NAD	NF	RECEIVED
NS	NAD	NF	RECEIVED
NT	NAD	NF	RECEIVED
NU	NAD	NF	RECEIVED
NV	NAD	NF	RECEIVED
NW	NAD	NF	RECEIVED
NX	NAD	NF	RECEIVED
NY	NAD	NF	RECEIVED
OA	ODD	OA	RECEIVED
OB	ODD	OB	RECEIVED
OC	ODD	OC	RECEIVED
OD	ODD	OD	RECEIVED
OE	ODD	OE	RECEIVED
OF	ODD	OF	RECEIVED
OG	ODD	OF	RECEIVED
OH	ODD	OF	RECEIVED
OI	ODD	OF	RECEIVED
OJ	ODD	OF	RECEIVED
OK	ODD	OF	RECEIVED
OL	ODD	OF	RECEIVED
OM	ODD	OF	RECEIVED
ON	ODD	OF	RECEIVED
OO	ODD	OF	RECEIVED
OP	ODD	OF	RECEIVED
OQ	ODD	OF	RECEIVED
OR	ODD	OF	RECEIVED
OS	ODD	OF	RECEIVED
OT	ODD	OF	RECEIVED
OU	ODD	OF	RECEIVED
OV	ODD	OF	RECEIVED
OW	ODD	OF	RECEIVED
OX	ODD	OF	RECEIVED
OY	ODD	OF	RECEIVED
PA	PAD	PA	RECEIVED
PB	PAD	PB	RECEIVED
PC	PAD	PC	RECEIVED
PD	PAD	PD	RECEIVED
PE	PAD	PE	RECEIVED
PF	PAD	PF	RECEIVED
PG	PAD	PF	RECEIVED
PH	PAD	PF	RECEIVED
PI	PAD	PF	RECEIVED
PJ	PAD	PF	RECEIVED
PK	PAD	PF	RECEIVED
PL	PAD	PF	RECEIVED
PM	PAD	PF	RECEIVED
PN	PAD	PF	RECEIVED
PO	PAD	PF	RECEIVED
PP	PAD	PF	RECEIVED
PQ	PAD	PF	RECEIVED
PR	PAD	PF	RECEIVED
PS	PAD	PF	RECEIVED
PT	PAD	PF	RECEIVED
PU	PAD	PF	RECEIVED
PV	PAD	PF	RECEIVED
PW	PAD	PF	RECEIVED
PX	PAD	PF	RECEIVED
PY	PAD	PF	RECEIVED
QA	QAD	QA	RECEIVED
QB	QAD	QB	RECEIVED
QC	QAD	QC	RECEIVED
QD	QAD	QD	RECEIVED
QE	QAD	QE	RECEIVED
QF	QAD	QF	RECEIVED
QG	QAD	QF	RECEIVED
QH	QAD	QF	RECEIVED
QI	QAD	QF	RECEIVED
QJ	QAD	QF	RECEIVED
QK	QAD	QF	RECEIVED
QL	QAD	QF	RECEIVED
QM	QAD	QF	RECEIVED
QN	QAD	QF	RECEIVED
QO	QAD	QF	RECEIVED
QP	QAD	QF	RECEIVED
QQ	QAD	QF	RECEIVED
QR	QAD	QF	RECEIVED
QS	QAD	QF	RECEIVED
QT	QAD	QF	RECEIVED
QU	QAD	QF	RECEIVED
QV	QAD	QF	RECEIVED
QW	QAD	QF	RECEIVED
QX	QAD	QF	RECEIVED
QY	QAD	QF	RECEIVED
RA	RAD	RA	RECEIVED
RB	RAD	RB	RECEIVED
RC	RAD	RC	RECEIVED
RD	RAD	RD	

NOTES FOR UNDERGROUND SERVICES

- I. A combination of electromagnetic techniques & ground penetrating radar have been used, as appropriate, in the location of underground services and drains. The results are reliable and the methods used are well established and cost effective.
- II. Service identification, positions and particularly depths, where these are critical, are confirmed by direct observation and/or by test drilling.
- III. Where the availability of the complements of the underground information cannot be guaranteed, the following are noted:
 - a) Where no cover level is accessible, depths to pipe inverts are shown that is **3,056 mm** below ground level.
 - b) Where cover level is accessible, depths to pipe inverts are shown that is **3,056 mm** below cover level.
 - c) Drains detected electronically are generally to the centre of the service and one depth shown that is **3,056 mm**.
 - d) Where cover level, where known, shows that is **20 mm**.
- IV. Pipe sizes, which cannot be obtained by visual survey, are taken from record drawings.
- V. Material of duct system, where known, shows that is **20 mm**.
- VI. Cable routes shown as a single line may actually consist of many cables. This is noted on the drawings.
- VII. Information taken from records is sufficed thus: (R)
- VIII. Where the location of services is not confirmed by direct observation, entry into manholes, where appropriate, is noted as follows:
 - a) To assist with verification of preparation, services and drains have been extended to the manhole.
 - b) Where no manhole is present, the service is shown as an assumed fence service.
- IX. Two or more C.P.F. reflections are required to be shown on an assumed fence service.

Coordinate Table					
STATION	DESCRIPTION	EASTING	NORTHING	LEVEL	
C1	PN	561588.709	198230.732	58.100	
C2	PKN	561678.483	198315.768	59.622	
C3	PKN	561712.403	195654.552	65.284	
C4	PKN	561694.461	195277.373	66.242	
C6	PEG	561990.847	195905.445	60.065	
C7	PEG	561967.785	196611.149	61.283	

NOTES

LEVELLING THE SURVEY LEVELS ARE BASED ON OS NEWLIN DATUM BY GPS USING OSGM15.

GRID THE SURVEY IS ON A PLANE LOCAL GRID RELATED TO OS NATIONAL GRID BY GPS USING OGSN15. THE LOCAL GRID ORIGIN IS STN C1 561588.709E 198230.732N

DRAINAGE INVERT LEVELS, PIPE SIZES AND PIPE CONNECTIONS HAVE BEEN SURVEYED BY VISUAL INSPECTION ONLY, AND THEREFORE THE COMPLETE ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED.

Aworth

SURVEY CONSULTANTS

URSA Certified Office
 Norfolk House, Norfolk Way, Uddfold
 East Sussex, TN22 1EP
 Tel: 01323 768519

The Landowne Building, 2 Landowne Road
 Croydon, CR9 2ER
 Tel: 020 526 6179

www.aworth.co.uk als@aworth.co.uk



Lloyd's Register
 QUALITY ASSURANCE
 CERTIFIED COMPANY



Linked In



**THE SURVEY
 ASSOCIATION**
 FULL MEMBER

Drawing No	5621
Sheet	16
Revision	
Scale	1:200 @ A0

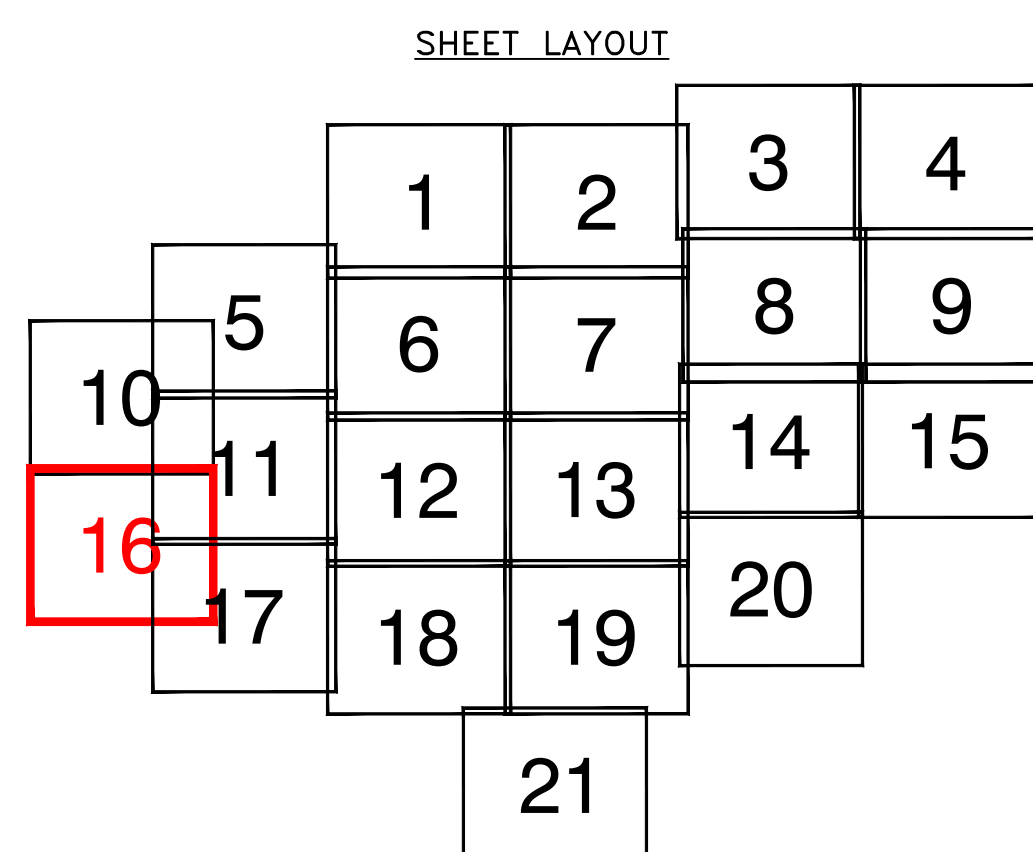
Surveyed	TJCS/TH
Drawn	BFJ/BW/DSP
Checked	JBW/TH
Date	21/01/2020

Project

OFFICERS MEADOW
 SHENFIELD
 BENTWOOD
 ESSEX

Client

CROWDAUCE HOMES LTD
 THE SPIRELLA BUILDING
 BRIDGE ROAD
 LETCHWORTH GARDEN CITY
 HERTFORDSHIRE SG8 4ET



SITE TITLE
SITE TITLE

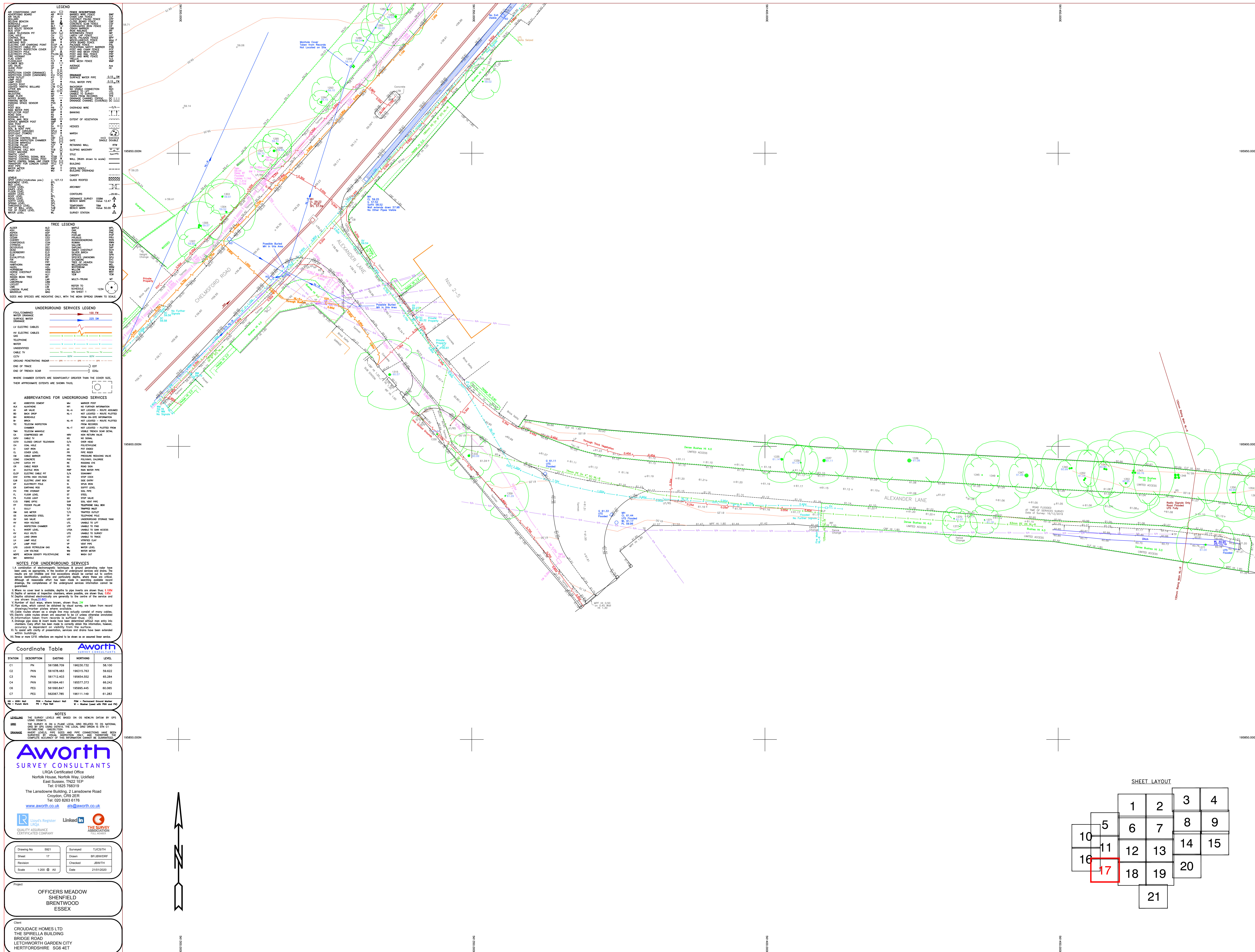
GENERAL LAYOUT

SCALE : 1/200

DATE : DATE

DRAWN : INITIAL

CHECKED : _____



[illegible][illegible]

UNDERGROUND SERVICES LEGEND

FOUL/COMBINED WATER DRAINAGE		100' FM
SURFACE WATER DRAINAGE		225' SW
LV ELECTRIC CABLES		
HV ELECTRIC CABLES		
TELEPHONE		
WATER		
UNIDENTIFIED		
CABLE TV		
CITY		
GROUND PENETRATING RADAR		
END OF TRACE		EDT
END OF TRENCH SCAR		ES60

WHERE CHAMBER EXTENTS ARE SIGNIFICANTLY GREATER THAN THE COVER SIZE,
THEIR APPROXIMATE EXTENTS ARE SHOWN INSIDE.

ABBREVIATIONS FOR UNDERGROUND SERVICES			
AC	ARMEDIST CREDIT	UNW	MAVERICK PORT
AD	ADDITIONAL	UNW	MAVERICK PORT
AF	AFRICAN	UNW	MAVERICK PORT
AG	AGRICULTURE	UNW	MAVERICK PORT
AI	AI	UNW	MAVERICK PORT
AL	AL	UNW	MAVERICK PORT
AM	AMERICAN	UNW	MAVERICK PORT
AN	AN	UNW	MAVERICK PORT
AO	AO	UNW	MAVERICK PORT
AP	AP	UNW	MAVERICK PORT
AR	AR	UNW	MAVERICK PORT
AS	AS	UNW	MAVERICK PORT
AT	AT	UNW	MAVERICK PORT
AV	AV	UNW	MAVERICK PORT
AW	AW	UNW	MAVERICK PORT
AX	AX	UNW	MAVERICK PORT
AY	AY	UNW	MAVERICK PORT
AZ	AZ	UNW	MAVERICK PORT
BA	BA	UNW	MAVERICK PORT
BB	BB	UNW	MAVERICK PORT
BC	BC	UNW	MAVERICK PORT
BD	BD	UNW	MAVERICK PORT
BE	BE	UNW	MAVERICK PORT
BF	BF	UNW	MAVERICK PORT
BG	BG	UNW	MAVERICK PORT
BH	BH	UNW	MAVERICK PORT
BI	BI	UNW	MAVERICK PORT
BJ	BJ	UNW	MAVERICK PORT
BK	BK	UNW	MAVERICK PORT
BL	BL	UNW	MAVERICK PORT
BM	BM	UNW	MAVERICK PORT
BN	BN	UNW	MAVERICK PORT
BO	BO	UNW	MAVERICK PORT
BP	BP	UNW	MAVERICK PORT
BQ	BQ	UNW	MAVERICK PORT
BR	BR	UNW	MAVERICK PORT
BS	BS	UNW	MAVERICK PORT
BT	BT	UNW	MAVERICK PORT
BU	BU	UNW	MAVERICK PORT
BV	BV	UNW	MAVERICK PORT
BW	BW	UNW	MAVERICK PORT
BX	BX	UNW	MAVERICK PORT
BY	BY	UNW	MAVERICK PORT
BZ	BZ	UNW	MAVERICK PORT
CA	CA	UNW	MAVERICK PORT
CB	CB	UNW	MAVERICK PORT
CC	CC	UNW	MAVERICK PORT
CD	CD	UNW	MAVERICK PORT
CE	CE	UNW	MAVERICK PORT
CF	CF	UNW	MAVERICK PORT
CG	CG	UNW	MAVERICK PORT
CH	CH	UNW	MAVERICK PORT
CI	CI	UNW	MAVERICK PORT
CJ	CJ	UNW	MAVERICK PORT
CK	CK	UNW	MAVERICK PORT
CL	CL	UNW	MAVERICK PORT
CM	CM	UNW	MAVERICK PORT
CN	CN	UNW	MAVERICK PORT
CO	CO	UNW	MAVERICK PORT
CP	CP	UNW	MAVERICK PORT
CQ	CQ	UNW	MAVERICK PORT
CR	CR	UNW	MAVERICK PORT
CS	CS	UNW	MAVERICK PORT
CT	CT	UNW	MAVERICK PORT
CU	CU	UNW	MAVERICK PORT
CV	CV	UNW	MAVERICK PORT
CW	CW	UNW	MAVERICK PORT
CX	CX	UNW	MAVERICK PORT
CY	CY	UNW	MAVERICK PORT
CZ	CZ	UNW	MAVERICK PORT
DA	DA	UNW	MAVERICK PORT
DB	DB	UNW	MAVERICK PORT
DC	DC	UNW	MAVERICK PORT
DD	DD	UNW	MAVERICK PORT
DE	DE	UNW	MAVERICK PORT
DF	DF	UNW	MAVERICK PORT
DG	DG	UNW	MAVERICK PORT
DH	DH	UNW	MAVERICK PORT
DI	DI	UNW	MAVERICK PORT
DJ	DJ	UNW	MAVERICK PORT
DK	DK	UNW	MAVERICK PORT
DL	DL	UNW	MAVERICK PORT
DM	DM	UNW	MAVERICK PORT
DN	DN	UNW	MAVERICK PORT
DO	DO	UNW	MAVERICK PORT
DP	DP	UNW	MAVERICK PORT
DQ	DQ	UNW	MAVERICK PORT
DR	DR	UNW	MAVERICK PORT
DS	DS	UNW	MAVERICK PORT
DT	DT	UNW	MAVERICK PORT
DU	DU	UNW	MAVERICK PORT
DV	DV	UNW	MAVERICK PORT
DW	DW	UNW	MAVERICK PORT
DX	DX	UNW	MAVERICK PORT
DY	DY	UNW	MAVERICK PORT
DZ	DZ	UNW	MAVERICK PORT
EA	EA	UNW	MAVERICK PORT
EB	EB	UNW	MAVERICK PORT
EC	EC	UNW	MAVERICK PORT
ED	ED	UNW	MAVERICK PORT
EE	EE	UNW	MAVERICK PORT
EF	EF	UNW	MAVERICK PORT
EG	EG	UNW	MAVERICK PORT
EH	EH	UNW	MAVERICK PORT

NOTES FOR UNDERGROUND SERVICES

- I. A combination of electromagnetic techniques & ground penetrating radar have been used, as appropriate, in the location of underground services and drains. The results are reliable and the methods used are well established and cost effective.
- II. Service identification, positions and particularly depths, where these are critical, are confirmed by direct observation and/or by test drilling.
- III. Where the availability of the complements of the underground information cannot be guaranteed, the following assumptions are made:
 - a) Where no cover level is accessible, depths to pipe inverts are taken that is: **3,056 mm** below ground level.
 - b) Where cover level is accessible, depths to pipe inverts are taken that is: **1,016 mm** below cover level.
 - c) Drains detected electronically are generally to the centre of the service and one depth shown; **1,016 mm**.
 - d) Where cover level, where known, shows that: **20 mm**.
- IV. Pipe sizes, which cannot be obtained by visual survey, are taken from record drawings.
- V. Material of duct, where known, shows that: **20 mm**.
- VI. Cable routes shown on a single line may actually consist of many cables. This is noted on the drawings.
- VII. Information taken from records is sufficed thus: (R).
- VIII. Where the location of services is not confirmed by direct observation, entry into manholes, where this has been deemed to be necessary, shows that: **1,016 mm**.
- IX. To assist with verification of preparation, services and drains have been extended to the next service.
- X. Where there are 2 or more services, reflections are shown as an assumed linear service.

Coordinate Table				
Aworth SURVEY CONSULTANTS				
STATION	DESCRIPTION	EASTING	NORTHING	LEVEL
C1	PN	561568.709	196230.732	58.100
C2	PKN	561676.483	196315.763	59.622
C3	PKN	561712.403	195654.552	65.284
C4	PKN	561694.451	195577.373	66.242
C6	PEG	561990.847	195905.445	60.065
C7	PEG	562067.785	196111.149	61.283

NOTES	
LEVELLING	THE SURVEY LEVELS ARE BASED ON OS NEWLIN DATUM BY GPS USING OSGM15.
GRID	THE SURVEY IS ON A PLANE LOCAL GRID RELATED TO OS NATIONAL GRID BY GPS USING OGSN15. THE LOCAL GRID ORIGIN IS STN C1 561588.709E 198230.732N
DRAINAGE	INVERT LEVELS, PIPE SIZES AND PIPE CONNECTIONS HAVE BEEN SUBVERTED BY VISUAL INSPECTION ONLY, AND THEREFORE THE

Aworth
SURVEY CONSULTANTS

LRQA Certified Office
Norfolk House, Norfolk Way, Uckfield
East Sussex, TN22 1EP
Tel: 01825 788319

The Lansdowne Building, 2 Lansdowne Road
Croydon, CR9 3EF
Tel: 020 8263 6176

www.aworth.co.uk ...als@aworth.co.uk

 Lloyd's Register
LRQA
QUALITY ASSURANCE
CERTIFICATED COMPANY
 
 THE SURVEY
ASSOCIATION
FULL MEMBER

Drawing No	6921	Surveyed	TJ/CS/TH
Sheet	18	Drawn	BJF/JBW/DRF
Revision		Checked	JBW/TH
Scale	1:200 @ A0	Date	21/01/2020

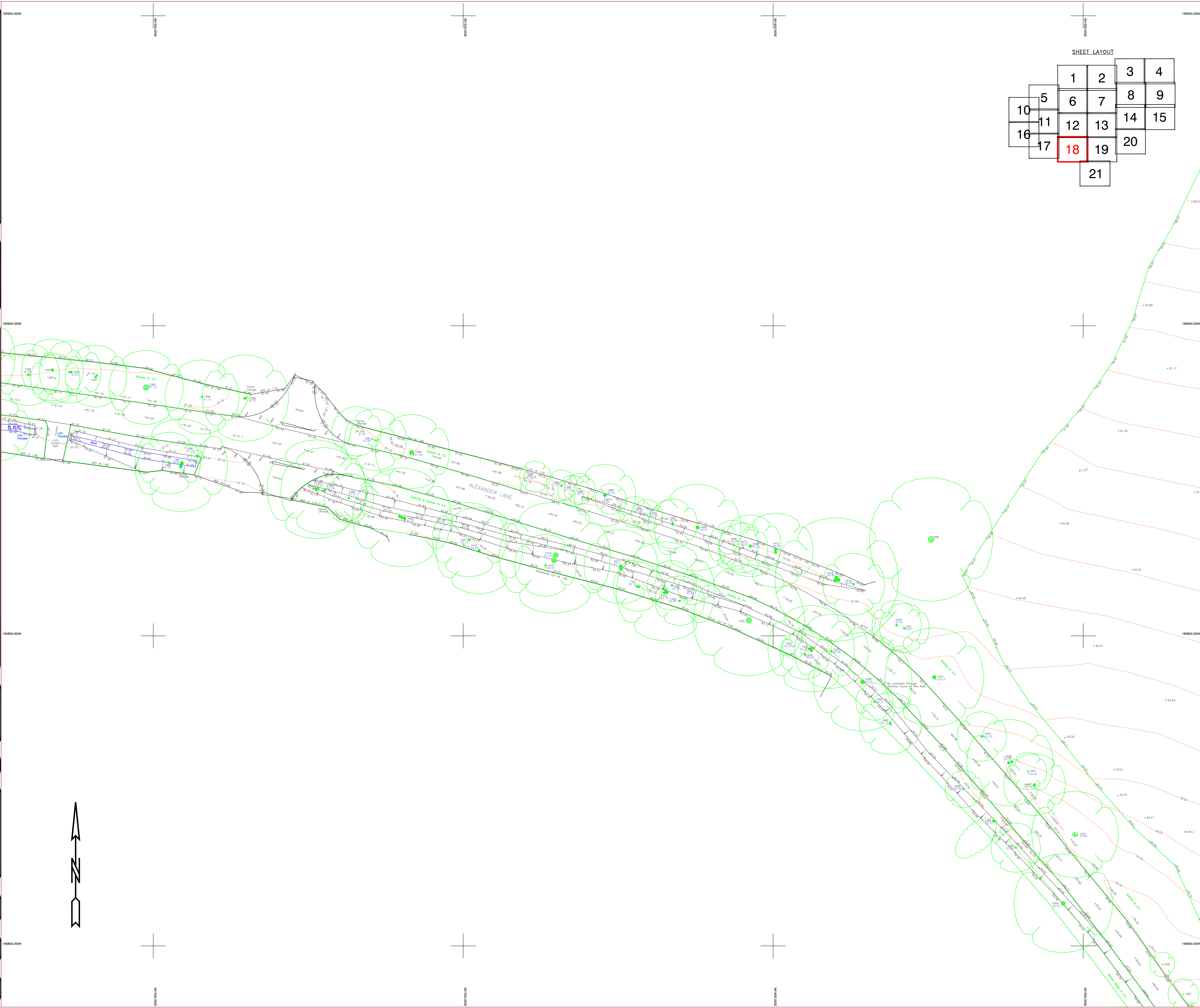
Project

OFFICERS MEADOW
SHENFIELD
BRENTWOOD
ESSEX

Client
CROUDACE HOMES LTD
THE SPIRELLA BUILDING
BRIDGE ROAD
LETCHWORTH GARDEN CITY
HERTFORDSHIRE SG6 4ET

SHEET LAYOUT

	1	2	3	4	
	5	6	7	8	9
10	11	12	13	14	15
16	17	18	19	20	
		21			



Croudace
STRATEGIC

SITE TITLE
SITE TITLE

GENERAL LAYOUT

SCALE : 1/200

DATE : DATE

DRAWN : INITIALS

CHECKED :

DRG.No.: 000/3

[illegible][illegible]

UNDERGROUND SERVICES LEGEND

- FOUL/CONTAMINATED WATER DRAINAGE: 100 PF
- SURFACE WATER DRAINAGE: 225 SW
- LV ELECTRIC CABLES: (Symbol with red lightning bolt)
- HV ELECTRIC CABLES: (Symbol with red lightning bolt)
- TELEPHONE WATER: (Symbol with red lightning bolt)
- UNIDENTIFIED: (Symbol with red lightning bolt)
- CABLE TV: (Symbol with red lightning bolt)
- CCTV: (Symbol with red lightning bolt)
- GROUP PENETRATING RADAR: (Symbol with red lightning bolt)
- END OF FRIDGE: (Symbol with red lightning bolt)
- END OF TRENCH SCAR: (Symbol with red lightning bolt)

WHERE CHAMBERS EXTENTS ARE SIGNIFICANTLY GREATER THAN THE COVER SIZE, THEIR APPROXIMATE EXTENTS ARE SHOWN THUS: [Symbol]

[illegible]

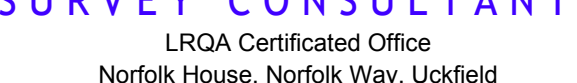
NOTES FOR UNDERGROUND SERVICES

- I. A combination of electromagnetic techniques & ground penetrating radar have been used, depending on the location of underground services and critical areas. The results are available in the form of a plan and/or profile showing identification, positions and particularly depths, where these are critical. The results are available after the work has been completed.
- II. Drawings, the completeness of the underground services information cannot be guaranteed.
- III. Where no cover level is available, depths to pipe inverters are shown that is, 1.05m
- IV. Depths of services at inspection chambers, where possible, are shown that is, 0.50m
- V. Depths of services at manholes are shown that is, 0.50m
- VI. Depths of services at street level are shown, where that is, 2.0m
- VII. Pipe sizes, which cannot be obtained by visual survey, are taken from record drawings and/or plans.
- VIII. Cable routes shown on a single line may actually consist of many cables, which are shown as a single line.
- IX. Information taken from records is sufficiently trusted; (R)
- X. Information is based on a visual survey and may not necessarily match any live drawings. Every effort has been made to correctly show the information, however, the drawings are not to be used as a basis for design.
- XI. To assist with clarity of presentation, services and drains have been extended when buildings.
- XII. All drawings & data files are required to be shown on as issued laser service.

STATION	DESCRIPTION	EASTING	NORTHING	LEVEL
C1	PN	561588.709	199230.732	58.100
C2	PNM	561678.483	199315.763	59.622
C3	PNM	561712.403	199564.552	65.284
C4	PNM	561694.461	199577.373	66.242
C6	PEG	561990.847	199595.445	60.065
C7	PEG	562067.785	199611.149	61.283

HE = HERE PNM = Porver Kallan Hill PEG = Permanent Ground Marker

NOTES	
LEVELLING	THE SURVEY LEVELS ARE BASED ON OS NEWLYN DATUM BY GPS USING 050415.
GRID	THE SURVEY IS ON A PLANE LOCAL GRID RELATED TO OS NATIONAL GRID BY GPS USING 050415. THE LOCAL GRID ORIGIN IS STN C1 561588.709E 196230.732N
DRAINAGE	INVERT LEVELS, PIPE SIZES AND PIPE CONNECTIONS HAVE BEEN SURVEYED BY VISUAL INSPECTION ONLY, AND THEREFORE THE



Aworth
 SURVEY CONSULTANTS

LRQA Certified Office
 Norfolk House, Norfolk Way, Lickfield
 East Sussex, TN22 1EP
 Tel: 01625 785319
 The Lansdowne Building, 21 Lansdowne Road
 Croydon, CR9 2ER
 Tel: 020 8635 6176

www.aworth.co.uk as@aworth.co.uk



LRQA
 Lloyd's Register
 QUALITY ASSURANCE
 CERTIFICATION COMPANY



LinkedIn
 In



THE SURVEY
 ASSOCIATION
 THE SURVEYORS'

Drawing No 6921	Surveyed TJC/BTH
Sheet 19	Drawn BFJ/LBN/SDF
Revision	Checked JWBTH
Scale 1:200 @ A2	Date 21/01/2020

Project

OFFICERS MEADOW
SHENFIELD
BENTWICK
ESSEX

Client

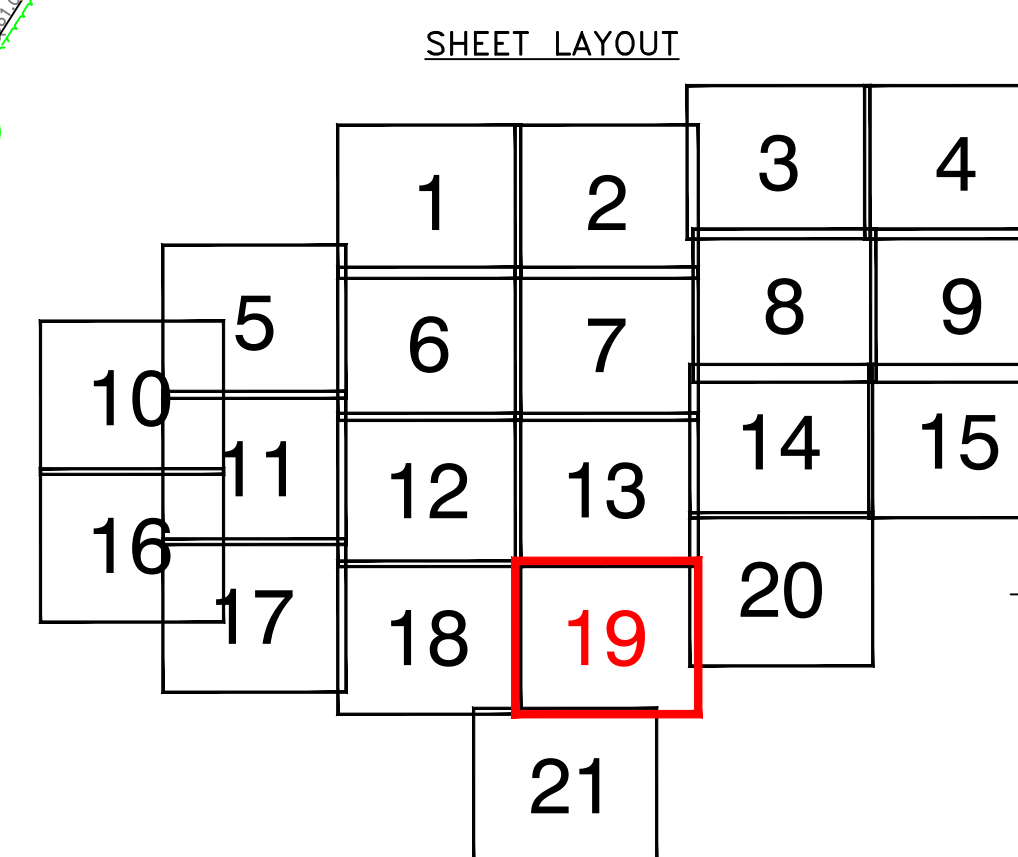
CROUCHDALE HOMES LTD
THE SPIRELLA BUILDING
BRIDGE ROAD
LETCHWORTH GARDEN CITY
HERTFORDSHIRE SG6 4ET



SITE TITLE
SITE TITLE

GENERAL LAYOUT

SCALE :	1/200
DATE :	DATE
DRAWN :	INITIALS
CHECKED :	
DRG.No. :	000/30



[illegible][illegible]

UNDERGROUND SERVICES LEGEND

FOUL/COMBINED WATER DRAINAGE		100' FM
SURFACE WATER DRAINAGE		225' SW
LV ELECTRIC CABLES		
HV ELECTRIC CABLES		
TELEPHONE		
WATER		
UNIDENTIFIED		
CABLE TV		
CITY		
GROUND PENETRATING RADAR		
END OF TRACE		EDT
END OF TRENCH SCAR		ES60

WHERE CHAMBER EXTENTS ARE SIGNIFICANTLY GREATER THAN THE COVER SIZE,
THEIR APPROXIMATE EXTENTS ARE SHOWN INSIDE.

[illegible]

NOTES FOR UNDERGROUND SERVICES

- I. A combination of electromagnetic techniques & ground penetrating radar have been used to detect and map underground services and pipes. The results are not infallible and soil encounters should be carried out to confirm findings. Identification, positions and particularly depths, where there are critical findings, should be made available to the contractor in the form of drawings. The completeness of the underground services information cannot be guaranteed.
- II. Where to cover level is available, depths to pipe inverts are shown that is; **3.056** m below ground level.
- III. The depth to the invert of the sewer is shown that is; **3.056** m below ground level.
- IV. Depths obtained electronically are generally to the centre of the service and are shown that is; **3.056** m.
- V. Number of duct, service, known, shown that is; **2W**.
- VI. Pipe sizes, which cannot be obtained by visual survey, are taken from record drawings.
- VII. Cable routes shown on a single line may actually consist of many cables.
- VIII. Information taken from records is sufficed that is; **R**.
- IX. Information taken from records is sufficed that is; **R**.
- X. Information taken from records is sufficed that is; **R**.
- XI. To assist with clarity of presentation, services and drains have been extended within buildings.
- XII. To assist with clarity of presentation, services and drains have been extended within buildings.
- XIII. To assist with clarity of presentation, services and drains have been extended within buildings.

Coordinate Table					
STATION	DESCRIPTION	EASTING	NORTHING	LEVEL	
C1	PN	561588.709	198230.732	58.100	
C2	PKN	561678.483	198315.768	59.622	
C3	PKN	561712.403	195654.552	65.284	
C4	PKN	561694.461	195277.373	66.242	
C6	PEG	561990.847	195905.445	60.065	
C7	PEG	561967.785	196611.149	61.283	

HN = Heli Nail PGN = Parker Kolon® Nail PGM = Permanent Ground Marker
PM = Punch Mark PN = Pipe Nail W = Washer (used with PGN and PGM)

NOTES	
LEVELLING	THE SURVEY LEVELS ARE BASED ON OS NEWLYN DATUM BY GPS USING OSMATS.
GRID	THE SURVEY IS ON A PLANE LOCAL GRID RELATED TO OS NATIONAL GRID BY GPS USING OSMATS. THE LOCAL GRID ORIGIN IS STN C1 561588.709E 198230.732N
DRAINAGE	INVERT LEVELS, PIPE SIZES AND PIPE CONNECTIONS HAVE BEEN SURVEYED BY VISUAL INSPECTION ONLY, AND THEREFORE THE

Aworth
SURVEY CONSULTANTS

LRQA Certified Office
Norfolk House, Norfolk Way, Wickfield
East Sussex, TN22 1EP
Tel: 01825 768319

The Lansdowne Building, 2 Lansdowne Road
Croydon, CR9 2ER
Tel: 020 8263 6176

www.aworth.co.uk als@aworth.co.uk

 Lloyd's Register
LRQA
QUALITY ASSURANCE
CERTIFICATED COMPANY

 LinkedIn

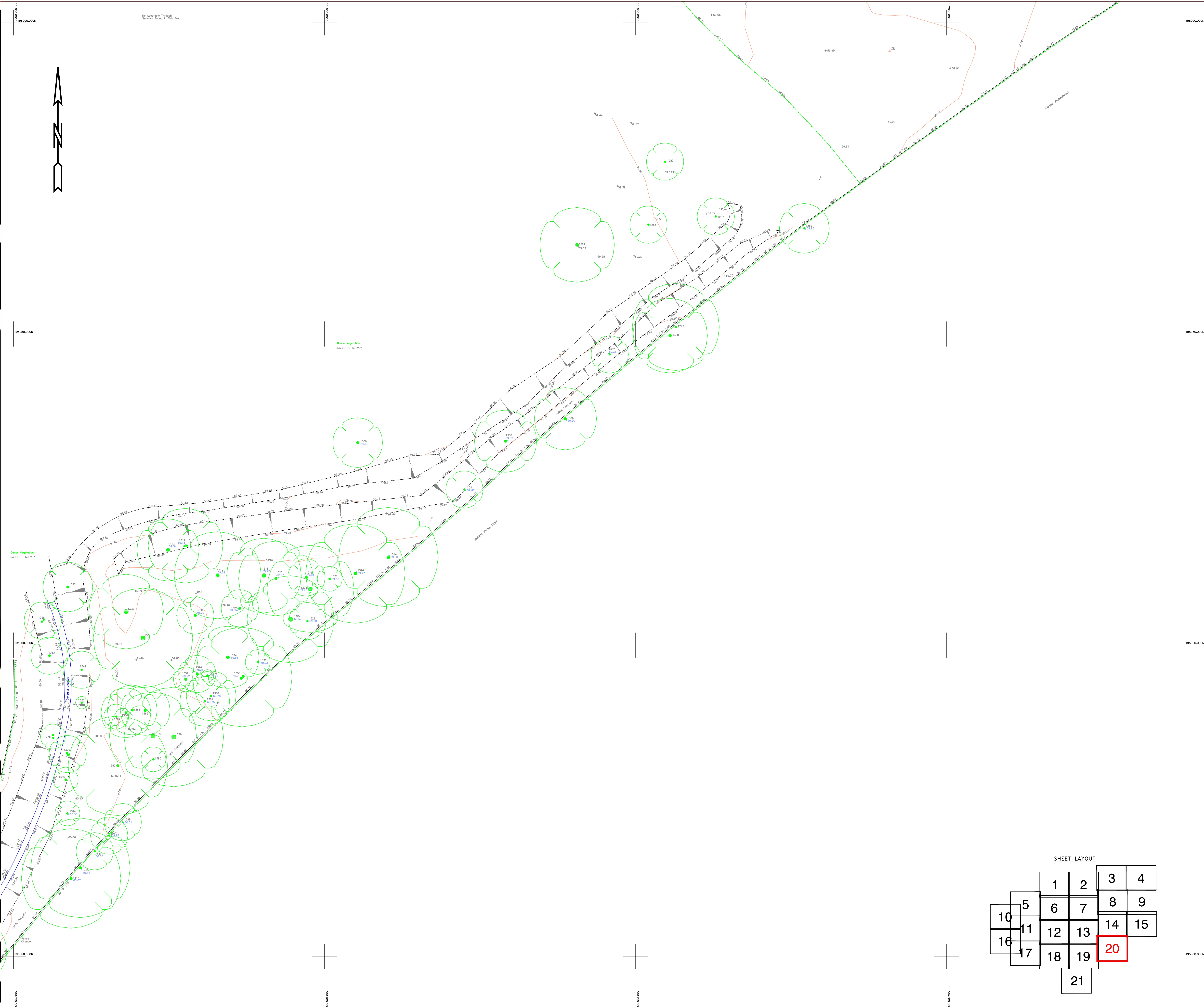
 THE SURVEY
ASSOCIATION
FULL MEMBER

Drawing No	5921	Surveyed	TJCS/TH
Sheet	20	Drawn	BFIJBW/DRF
Revision		Checked	JBW/TH
Scale	1:200 @ A0	Date	21/01/2020

Project

OFFICERS MEADOW
SHENFIELD
BRENTWOOD
ESSEX

Client
CROUDACE HOMES LTD
THE SPIRELLA BUILDING
BRIDGE ROAD
LETCWORTH GARDEN CITY
HERTFORDSHIRE SG6 4ET



Croudace
STRATEGIC

SITE TITLE
SITE TITLE

GENERAL LAYOUT

SCALE : 1/200

DATE : DATE

DRAWN : INITIA

CHECKED :

DRG.No.: 000/3

SHEET LAYOUT

		1	2	3	4
	5	6	7	8	9
10	11	12	13	14	15
16	17	18	19	20	
		21			

[illegible]

TREE LEGEND			
ALDER	ALD	MAPLE	MPF
ASH	ASH	PIE	PIE
ASPEN	ASP	PINE	PNE
BIRCH	BCH	POPLAR	POP
CEDAR	CED	PRUNUS	PRU
CHERRY	CHY	RHODODENDRON	RHO
CORDESPOND	CON	ROWAN	RWN
CYPRESS	CYP	SALIC	SAL
DOUGLASS PINE	DPN	SWEET GUSTINEUS	SGH
ELDERBERRY	ELB	SPRUCE	SPR
ELM	ELM	SPRUCE	SPR
EMULPINEUS	EMP	SPRUCE	SPR
FIR	FIR	SPRUCE	SPR
GUM	GUM	SPRUCE	SPR
HORSEMAN	HCH	SPRUCE	SPR
HORSE CHESTNUT	HCH	SPRUCE	SPR
HOLLY	HOL	SPRUCE	SPR
LYNCH BARK TREE	LBT	SPRUCE	SPR
LABURNUM	LAB	SPRUCE	SPR
LOCUST	LOC	SPRUCE	SPR
LONG LEAF	LLE	SPRUCE	SPR
LONG LEAF	LLE	SPRUCE	SPR
MANO	MAN	SPRUCE	SPR

SIZE AND SPREAD ARE INDICATIVE ONLY WITH THE MEAN SPREAD DROPPED TO SCALE.

UNDERGROUND SERVICES LEGEND

FOUL/COMBINED WATER DRAINAGE		100' FM
SURFACE WATER DRAINAGE		225' SW
LV ELECTRIC CABLES		
HV ELECTRIC CABLES		
TELEPHONE		
WATER		
UNIDENTIFIED		
CABLE TV		
CITY		
GROUND PENETRATING RADAR		
END OF TRACE		EDT
END OF TRENCH SCAR		ES60

WHERE CHAMBER EXTENTS ARE SIGNIFICANTLY GREATER THAN THE COVER SIZE,
THEIR APPROXIMATE EXTENTS ARE SHOWN INSIDE.

[illegible]

NOTES FOR UNDERGROUND SERVICES

1. A combination of electromagnetic techniques & ground penetrating radar have been used, as appropriate, in the location of underground services and drains. The results are reliable and the location of services and drains are confirmed by service identification, positions and particularly depths, where these are critical. The results are shown on the drawings and are subject to the following conditions:
 - a) The drawings are based on the information available at the time of the survey. Drawings, the completeness of the underground services information cannot be guaranteed.
 - b) Where no cover level is available, depths to pipe inverts are shown that is: 1.05m
 - c) Depths of services in inspection chambers, where possible, are shown that: 0.02m
 - d) The location of electromagnetic services and the depth of the services are shown that: 1.00m
 - e) Where the cover level is known, shown that: 2.0m
 - f) Pipe sizes, which cannot be identified by visual survey, are taken from record drawings and are plotted on the drawings.
 - g) Cable routes shown on a single line may actually consist of many cables.
 - h) The location of services is shown on the drawings as a single line.
 - i) Information taken from records is sufficed thus: (R)
 - j) The location of a street lighting service is shown as a single line entry into information. Every effort has been made to correctly show this information, however, it is not possible to guarantee the accuracy of this information.
 - k) To avoid with cluttering of projections, services and drains have been extended within boundaries.
2. All GPR reflections are required to be shown as on assumed floor service.

Coordinate Table			
STATION	DESCRIPTION	EASTING	NORTHING
C1	PN	561588.709	198230.732
C2	PKN	561678.483	195622.195
C3	PKN	561712.403	195654.552
C4	PKN	561694.461	195577.373
C6	PEG	561990.847	195905.445
C7	PEG	561967.785	196111.149

NOTES

LEVELLING THE SURVEY LEVELS ARE BASED ON OS NEWLIN DATUM BY GPS USING OSGM15.

GRID THE SURVEY IS ON A PLANE LOCAL GRID RELATED TO OS NATIONAL GRID BY GPS USING OGSN15. THE LOCAL GRID ORIGIN IS STN C1 561588.709E 198230.732N

DRAINAGE INVERT LEVELS, PIPE SIZES AND PIPE CONNECTIONS HAVE BEEN SURVEYED BY VISUAL INSPECTION ONLY, AND THEREFORE THE COMPLETE ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED.

Aworth
SURVEY CONSULTANTS

LRQA Certified Office
Norfolk House, Norfolk Way, Uckfield
East Sussex, TN22 1EP
Tel: 01625 768319

The Lansdowne Building, 2 Lansdowne Road
Croydon, CR9 2ER
Tel: 020 8263 6176

www.aworth.co.uk als@aworth.co.uk


 Lloyd's Register
 LRQA
 QUALITY ASSURANCE
 CERTIFICATED COMPANY


 LinkedIn

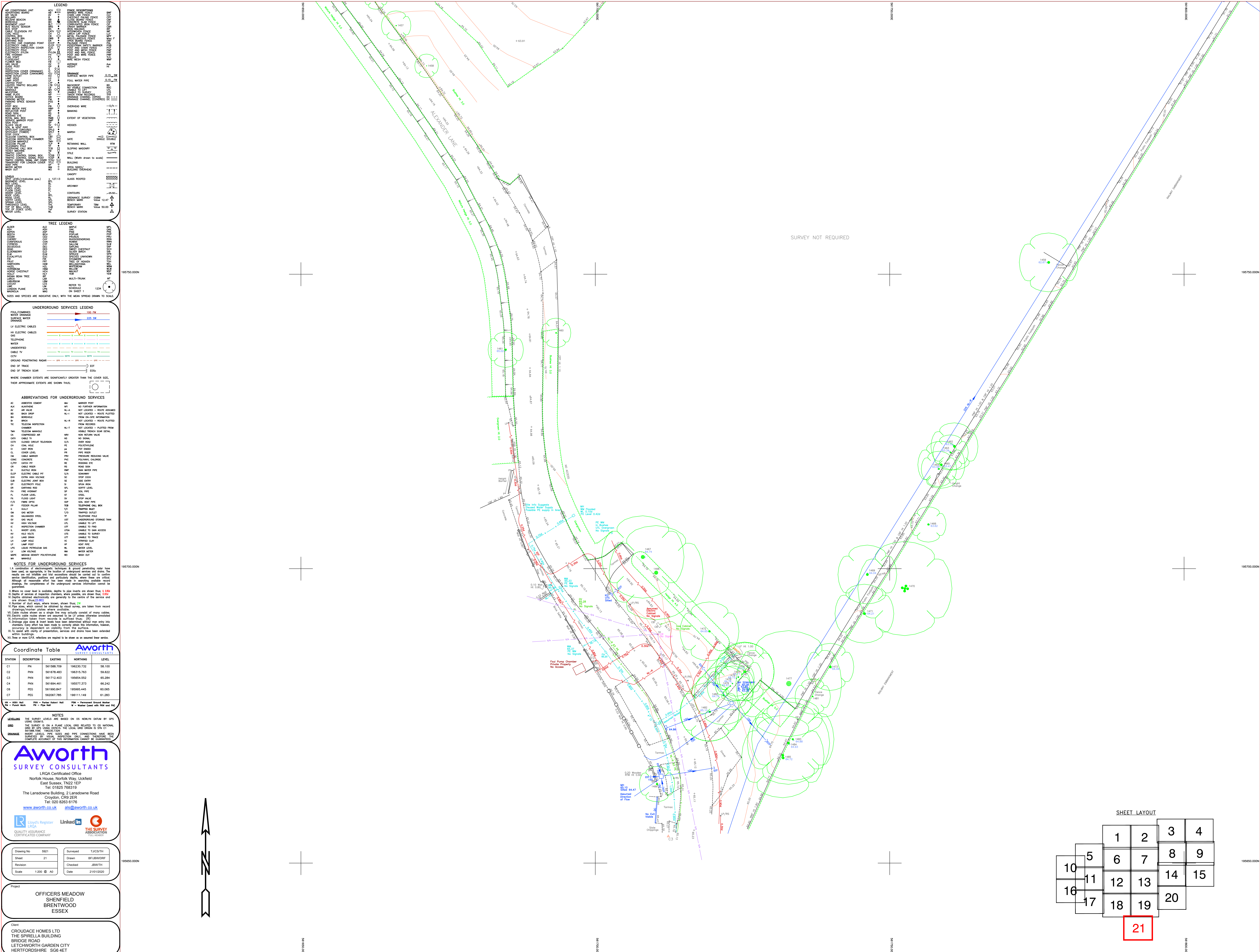

 THE SURVEY
 ASSOCIATION
 FULL MEMBER

Drawing No	5921	Surveyed	TJ/CS/TH
Sheet	21	Drawn	BFFJ/BWDRF
Revision		Checked	JBW/TH
Scale	1:200 @ A0	Date	21/01/2020

Project

OFFICERS MEADOW
SHENFIELD
BRENTWOOD
ESSEX

Client
CROUDACE HOMES LTD
THE SPIRELLA BUILDING
BRIDGE ROAD
LETCWORTH GARDEN CITY
HERTFORDSHIRE SG6 4ET



Croudace
STRATEGIC 

SITE TITLE
SITE TITLE

GENERAL LAYOUT

SCALE : 1/200

DATE : DATE

DRAWN : INITIALS

CHECKED :

DRG.No. : 000/30