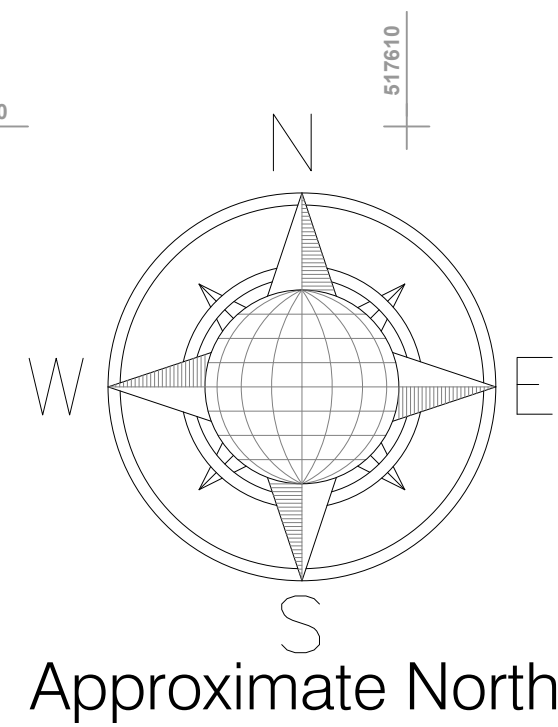




ARCH
ASSOCIATES

APPENDIX 2

TOPOGRAPHICAL AND UTILITY SURVEY



LEGEND			
Utility Survey Point Features			
AV	Air Valve	GL	Gas Lound
BA	Bellha Buser	IC	IC - Round
CC	CCTV Camera Pole	IC - C	IC - Corms
CB	Cable Riser	ICE	IC - Electric
CD	Down Pipe	ICR	IC - Round
DF	Down Pipe To Ground	ICU	IC - Telecom
EE	Electrical Pole	ICTC	IC - TCSUFTL
ER	Earth Rod	ICV	IC - CATV
FE	Fire Hydrant	LP	Lamp Post
GM	Gas Meter	MH	MH
GV	Gas Valve	MH - D	MH - Distict Heat
GU	Gully	MH - F	MH - Foul
MH		PH	MH - Round
		MS	MH - Surface Water
		MP	Marker Post
		12-24	
		PR	Pipe
		RL	Recessed Light
		RE	Roading Eye
		SC	Stop Cock
		TL	Traffic Light
		TP	Telegraph Pole
		V	Valve General
		WM	Water Meter
		WW	Water Valve

[illegible]

FRW — Fire Water	DH — District Heat
WM — Water Main	FU — Fuel Pipe
WS — Water Service	XX — Decommissioned/Abandoned
	Manhole Chamber
	Manhole ID
E — Electrical Service	PEO — Pot End
EE — Electrical Earth	Scope of Works
P — Electrical Pilot Cable	

PAS128 Quality Levels			
(Consult document 'PAS128:2014.pdf' for full details)			
—XX - A—	Quality Level A	—XX - B3—	Quality Level B3
—XX - B1—	Quality Level B1	—XX - B3P—	Quality Level B3P
—XX - B1P—	Quality Level B1P	—XX - B4—	Quality Level B4
—XX - B2—	Quality Level B2	—XX - C—	Quality Level C
—XX - B2P—	Quality Level B2P	—XX - D—	Quality Level D

Special Survey Features			
AB	E=XXXXXXX ID A=YYYYYYY	Survey Station	E=XXXXXXX ID A=YYYYYYY Scan Target
Utility Survey Abbreviations			
AB	Abandoned	CSER	Controlled Space Entry Required
AR	Assumed Route	MH	Manhole
BI	Illuminated Borehole	NVO	Not Visible Outside
BL	Borehole	OE	Overhead Electric
CPD	Capped	OT	Overhead Telecom
CS	Cover Level	SO	Soft Soil
CPD	Capped	IFR	Taken From Records
CUT	Discovered Utility	TVM	Track Vending Machine
EODCTV	End of CCTV Signal	UTU	Unable to Open
EOD EPR	End of EPR Signal	UTU	Unable to Survey
END	End of Trace	UTU	Unable to Trace
EOS	End of Survey	UK	Unknown
IC	Inspection Core	WL	Water Level
IL	Invert Level	XGD	Survey Depth

Utility Material Abbreviations					
AC	Asbestos Cement	CO	Concret	SI	Spun Iron
BC	Brick Chamber	DI	Ductile Iro	ST	Steel
CI	Cast Iron	PE	Polyethylene	WTR	Water
Level Measured For Ducts/Pipes At Pits Is To Top Of The Service			Level Measured For Drainage At Pits Is To Invert Level Of The Service		

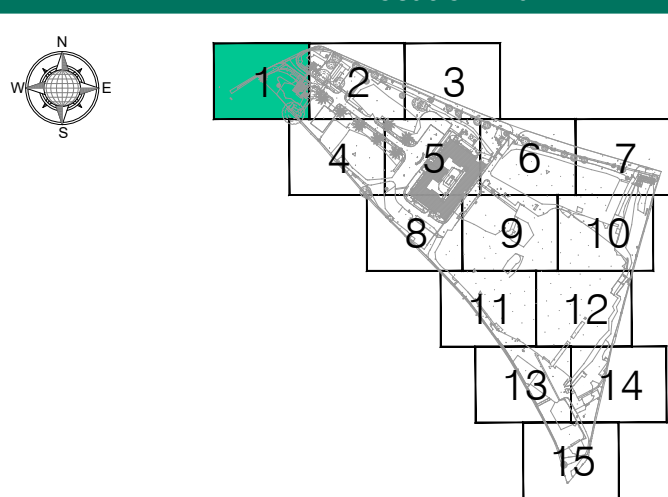
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Location Plan



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B	CCTV drainage survey added	DA - 16/11/24	CN - 29/11/24	DS - 02/12/24



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London Manchester Birmingham Glasgow Belfast Cork Kildare

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Survey Datum	GNSS - Ordnance Datum Newlyn (ODN)
RICS Band	Band E
Drawing Scale	1:100 @A0
Drawing Number	MGS60622-U-RevB-All-Combined-01

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PLEASE NOTE:

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Old utility survey can be found in gray color.



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LEGEND		
Utility Survey Point Features		
AV Air Valve	IC - Commis	MH - Round
BB Belisha Beacon	IC - Electric	MH - Surface Water
CP CCTV Camera Pole	IC - Round	MP Marker Post
CR Cable Riser	IC - Telecom	PR Pipe Riser
DP Down Pipe To Ground	IC - TCSU/TFL	RE Recessed Light
EP Electrical Pole	IC - CATV	RE Rodding Eye
ER Earth Rod	LP Lamp Post	SC Stop Cock
FR Fire Hydrant	MH - District Heat	TL Traffic Light
GM Gas Meter	MH - Foul	TP Telegraph Pole
GV Gas Valve		V Valve General
G Gully		WM Water Meter
		WV Water Valve

Utility Survey Linework Features		
BT British Telecom	EHV Electrical - Extra High Voltage	
CATV Cable TV	HV Electrical - High Voltage	
CCTV Closed Circuit TV	LV Electrical - Low Voltage	
COMMS Communications	TFL Electrical - TFL	
FOLC Fibre Optic Line - Colt	SL Street Lighting	
FOLC Fibre Optic Line - Energis	TCSU Traffic Control System Unit	
FOLC Fibre Optic Line - Fibernet	G Gas	
FOLC Fibre Optic Line - Level 3	GP Gas Low Pressure	
FOLC Fibre Optic Line - Mercury	GP Gas Intermediate Pressure	
FOLC Fibre Optic Line - MFCSC	GP Gas Medium Pressure	
FOLC Fibre Optic Line - Tanet	GP Gas High Pressure	
FOLC Fibre Optic Line - Virgin	GP Gas Unknown	
FOLC Fibre Optic Line - Vodafone	ED Empty Duct	
FOLC Fibre Optic Line - Verizon	GPR GPR Anomaly	
FOLC Fibre Optic Line - WCOM	UA Unknown Asset	
TS Telecom Service	UA Possible Sweep	
	UCL Unknown Cable	
	GRS GPR Slab	
	GRS GPR Survey Area	
	GRS GPR buried structure	
	GRS GPR Reinforced Slab	
	GRS GPR Interface layer (change in material)	
	Other	
	DH District Heat	
	FU Fuel Pipe	
	XX Decommissioned/Abandoned	
	Manhole Chamber	
	Manhole ID	
	PEO Pot End	
	Scope of Works	

PAS128 Quality Levels		
(Consult document PAS128-2014.pdf for full details)		
XX - A - Quality Level A	XX - B3 - Quality Level B3	
XX - B1 - Quality Level B1	XX - B3P - Quality Level B3P	
XX - B1P - Quality Level B1P	XX - B4 - Quality Level B4	
XX - B2 - Quality Level B2	XX - C - Quality Level C	
XX - B2P - Quality Level B2P	XX - D - Quality Level D	

Special Survey Features		
E-XXXX-XXX ID A NYYYY YYY Survey Station	ES-XXXX-XXX ID NYYYY YYY Scan Target	
HZZZ ZZZ	HZZZ ZZZ	

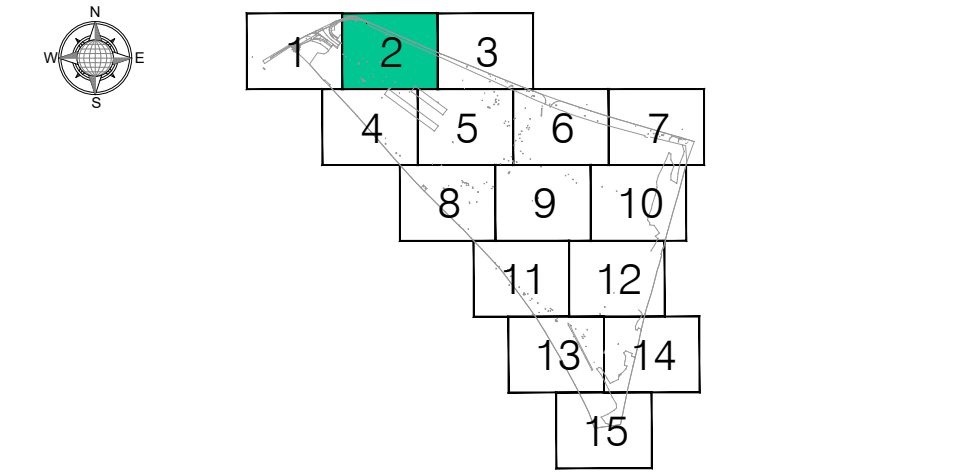
Utility Survey Abbreviations		
AB Abandoned	CSER Confined Space Entry Required	
AR Assumed Route	MH Manhole	
BI Illuminated Bollard	NVO Not Visible Outlet	
BLD Blocked	OE Overhead Electric	
CPD Capped	OT Overhead Telecom	
CL Cover Level	SOF Soffit Level	
CPD Capped	TFR Taken From Rafters	
CUT Disconnected Utility	TVM Ticket Vending Machine	
EOCCTV End of CCTV Survey	UTO Unable to Open	
EOC End of GPR Signal	UTT Unable to Trace	
EDT End of Trace	UKN Unknown	
EOS End of Survey	WL Water Level	
IC Inspection Cover	XXS Service Depth	
IL Invert Level		

Utility Material Abbreviations		
AC Asbestos Cement	CO Concrete	SI Spun Iron
BC Brick Chamber	DI Ductile Iro	ST Steel
CI Cast Iron	PE Polyethylene	WTR Water
Level Measured For		
Duts/Pipes At Pits Is To Top of The Service	At Pits Is To Invert Level Of The Service	

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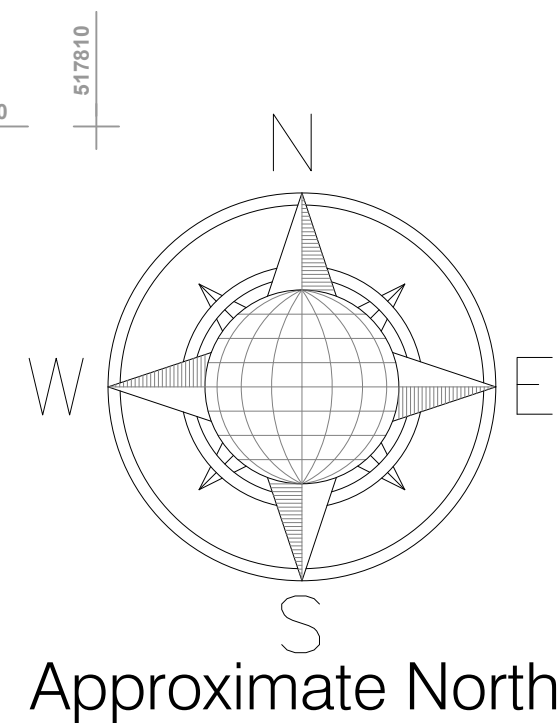


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Survey Datum	GNSS - Ordnance Datum Newlyn (ODN)
RICS Band	Band E
Drawing Scale	1:100 @A0
Drawing Number	GS60622-U-RevB-All-Combined-02



Approximate North

PLEASE NOTE:

Previous topographic and utility survey done in 2018.
Old utility survey can be found in gray color.

LEGEND			
Utility Survey Point Features			
AV	Air Valve	Gully Round	MH - Round
BB	Belisha Beacon	IC	MH - Surface Water
CC	CCTV Camera Pole	IC - Comms	Marker Post
CR	Cable Riser	IC - Electric	12/24
DP	Down Pipe	IC - Telecom	PR
DPG	Down Pipe to Ground	IC - Telecom	Recessed Light
EP	Electrical Pole	IC - TSSU/ITFL	Roading Key
ER	Earth Road	IC - CATV	TL
FR	Fire Hydrant	Lamp Post	TP
GM	Gas Meter	MH	Telegraph Pole
GV	Gas Valve	MH - District Heat	Valve General
G	Gully	MH - Foul	Water Meter
			Water Valve

Utility Service Linework Features		
BT	Communications	Electrical
BT	British Telecom	Electrical - Extra High Voltage
CATV	Cable TV	Electrical - HV
CATV	Closed Circuit TV	Electrical - High Voltage
CC	Communications	Electrical - TFL
FOL	Fiber Optic Line	Steel Lighting
FOL	Fiber Optic Line - Coit	Telemeter Control System Unit
FOL	Fiber Optic Line - Enersis	Gas
FOL	Fiber Optic Line - Fibernet	Gas Service
FOL	Fiber Optic Line - Level 5	Gas - Pressure
FOL	Fiber Optic Line - Mercury	Gas Intermediate Pressure
FOL	Fiber Optic Line - MPSC	Gas Medium Pressure
FOL	Fiber Optic Line - Tandem	Gas - Unknown
FOL	Fiber Optic Line - Virgin	GPR + Unknown
FOL	Fiber Optic Line - Vizion	ED
FOL	Fiber Optic Line - Verizon	GPR
FOL	Fiber Optic Line - WCOM	Unknown Alarm
FOL	Telecom Service	UA
		UA - Passive Sensor
		Unknown Cable
	Drainage	GPR Sibs
	Combined Water	GPR Survey Area
	FW	GPR buried structure
	Foul Water	GPR Reinforced Concrete Slab
	Gas	GPR interface layer (change in material)
	Rising Main	
	Water	
	Fire Water	
	FW	Water
	FW	DH
	WS	FU
	Water Service	Dissect Heat
		Fuel Pipe
		Decommissioned/Abandoned
		Manhole Chamber
	Electrical	
E	Electrical Service	Manhole ID
E	Electrical Earth	Part End
E	Electrical Pilot Cable	Scope of Works

PAS128 Quality Levels			
(Consult document 'PAS128:2014.pdf' for full details)			
—XX-A—	Quality Level A	—XX-B3—	Quality Level B3
—XX-B1—	Quality Level B1	—XX-B3P—	Quality Level B3P
—XX-B1P—	Quality Level B1P	—XX-B4—	Quality Level B4
—XX-B2—	Quality Level B2	—XX-C—	Quality Level C
—XX-B2P—	Quality Level B2P	—XX-D—	Quality Level D

Special Survey Features			
ID 	E=XXX.XXX	Survey Station	E=XXX.XXX
	N=YYY.YYY		N=YYY.YYY
	H=ZZZ.ZZZ		H=ZZZ.ZZZ
ID 	E=XXX.XXX	Scan Target	E=XXX.XXX
	N=YYY.YYY		N=YYY.YYY
	H=ZZZ.ZZZ		H=ZZZ.ZZZ

Utility Survey Abbreviations		
AB	Abandoned	CSER Confined Space Entry Required
AS	Assumed Route	MH Manhole
BI	Illuminated BOLLARD	NVO Not Visible Outlet
BLD	Blocked	OE Overhead Electric
CD	Cover	OT Overhead Telecom
CL	Cover Level	SOF Soft Level
CP	Capped	TFR Taken From Records
CU	Disconnected Utility	TVM Tank Venting Machine
ECCVT	End of CCTV Survey	UTO Unable to Open
EOP	End of GPR Signal	UTS Unable to Survey
ETT	End of Trace	UTT Unable to Trace
EOS	End of Survey	UNK Unknown
IC	Inspection Cover	WL Water Level
IL	Invert Level	XXG Service Depth

Utility Material Abbreviations					
AC	Asbestos Cement	CO	Concrete	SI	Spun Iron
BC	Brick Chamber	DI	Ductile Iro	ST	Steel
CI	Cast Iron	PE	Polyethylene	WTR	Water
Level Measured For Ducts/Pipes At Pits Is To Top Of The Service			Level Measured For Drainage At Pits Is To Invert Level Of The Service		

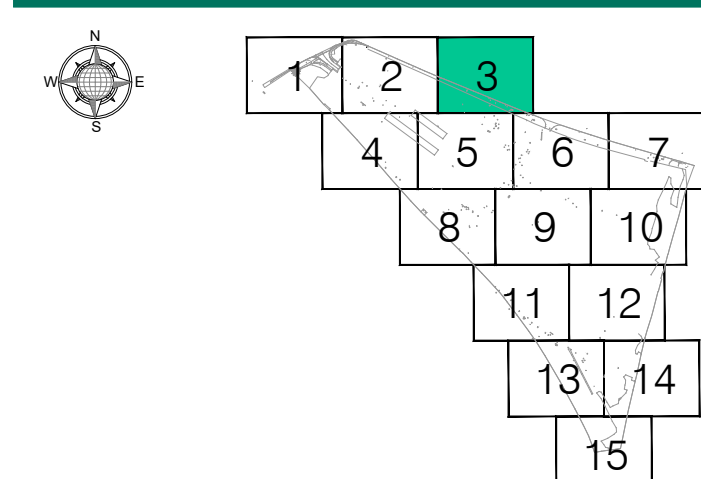
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Location Plan



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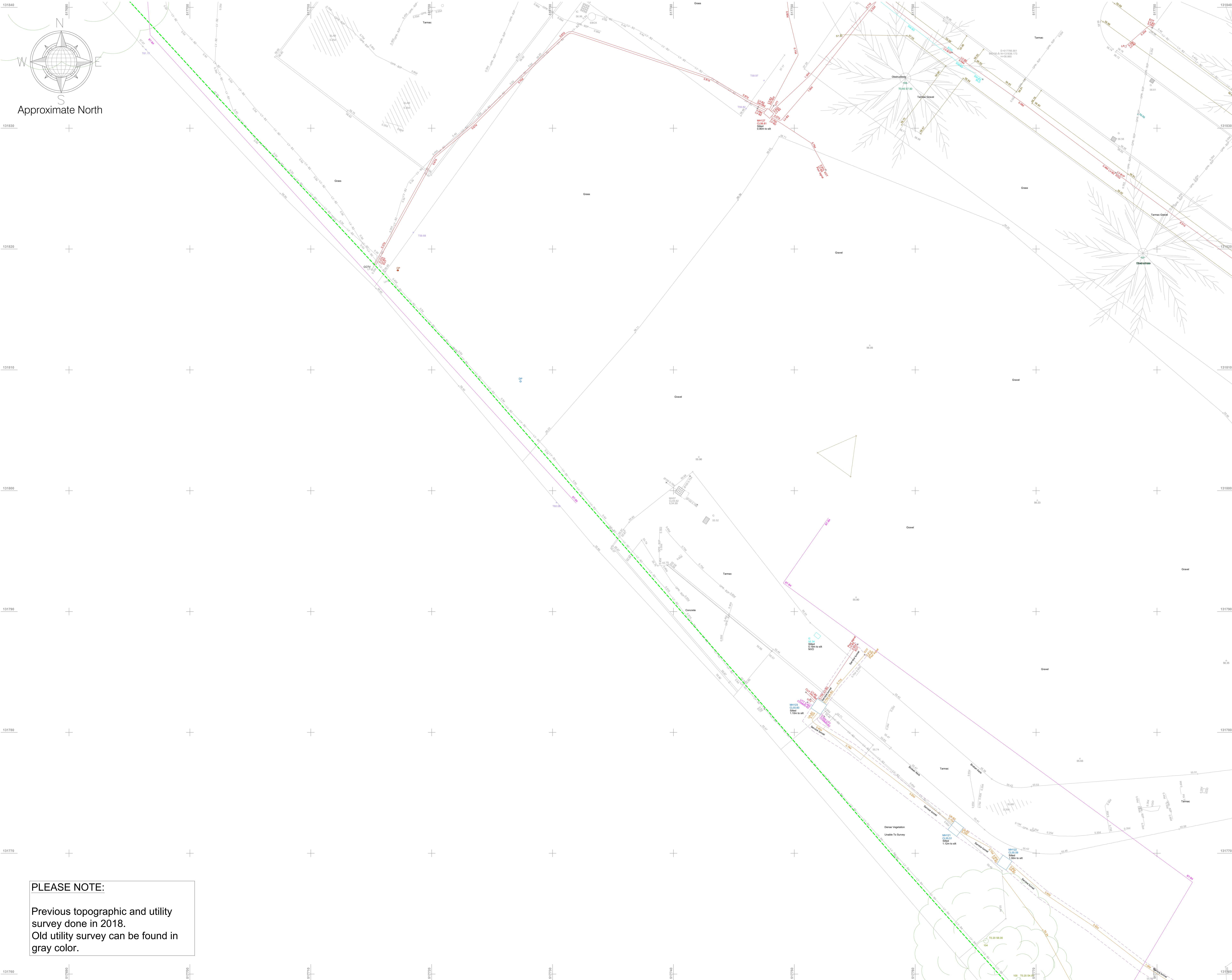
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RICS Band	Band E
Drawing Scale	1:100 @A0
Drawing Number	GS06022-U-RevB-All-Combined-

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LEGEND		
Utility Survey Point Features		
AV Air Valve	IC Comm	MH - Round
BB Bellsh Beacon	IC - Comm	MH - Surface Water
CP CCTV Camera Pole	IC - Electric	MK Marker Post
CR Cable Riser	IC - Round	12.24 Pipe Riser
DP Down Pipe	IC - Telecom	RL Recessed Light
DPG Down Pipe To Ground	IC - TCSU/TFL	RE Rodding Eye
EP Electrical Pole	IC - CATV	SC Stop Cock
ER Earth Rod		TL Traffic Light
FP Fire Hydrant	LP Lamp Post	TP Telegraph Pole
GM Gas Meter	MH	V Valve General
GV Gas Valve	MH - District Heat	WM Water Meter
G Gully	MH - Foul	WV Water Valve

Utility Survey Linework Features		
BT British Telecom	EHV Electrical - Extra High Voltage	
CATV Cable TV	HV Electrical - High Voltage	
CCTV Closed Circuit TV	LV Electrical - Low Voltage	
COMMS Communications	TFL Electrical - TFL	
FOL Fibre Optic Line	SL Street Lighting	
FOLC Fibre Optic Line - Cof	TCSU Traffic Control System Unit	
FOLE Fibre Optic Line - Energis	Gas	
FOLF Fibre Optic Line - Fibernet	Gas Service	
FOLM Fibre Optic Line - Mercury	GLP Gas Low Pressure	
FOLN Fibre Optic Line - MFS	GIP Gas Intermediate Pressure	
FOLT Fibre Optic Line - Tanet	GMP Gas Medium Pressure	
FOLV Fibre Optic Line - Virgin	GHP Gas High Pressure	
FOLVN Fibre Optic Line - Verizon	GPR Gas Unknown	
FOLW Fibre Optic Line - WCOM	ED Empty Duct	
IS Telecom Service	GPR Anomaly	
	UA Unknown Asset	
	UA Passive Sweep	
	UCL Unknown Cable	
	GPR Slab	
	GPR Survey Area	
	GPR buried structure	
	GPR Reinforced Slab	
	GPR Interface layer (change in material)	
	Other	
	DH District Heat	
	FU Fuel Pipe	
	XX Decommissioned/Abandoned	
	Manhole Chamber	
	Manhole ID	
	PEO Pot End	
	Scope of Works	

PAS128 Quality Levels		
(Consult document 'PAS128-2014.pdf' for full details)		
XX - A - Quality Level A	XX - B3 - Quality Level B3	
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XX - B2 - Quality Level B2	XX - C - Quality Level C	
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Special Survey Features		
E-XXXX-XXX	ES-XXXX-XXX	
ID A NYYYYYYY Survey Station	ID NYYYYYYY Scan Target	
HZZZ ZZZ	HZZZ ZZZ	

Utility Survey Abbreviations		
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EOCCTV End of CCTV Survey	UTO Unable to Open	
EOG End of GPR Signal	UTS Unable to Survey	
EOT End of Trace	UTT Unable to Trace	
EOS End of Survey	UKN Unknown	
IC Inspection Cover	WL Water Level	
IL Invert Level	XGS Service Depth	

Utility Material Abbreviations		
AC Asbestos Cement	CO Concrete	SI Spun Iron
BC Brick Chamber	DI Ductile Iro	ST Steel
CI Cast Iron	PE Polyethylene	WTR Water

Level Measured For Ducts/Pipes At Pits Is To Top of The Service	0.80d	Level Measured For Drainage At Pits Is To Invert Level Of The Service
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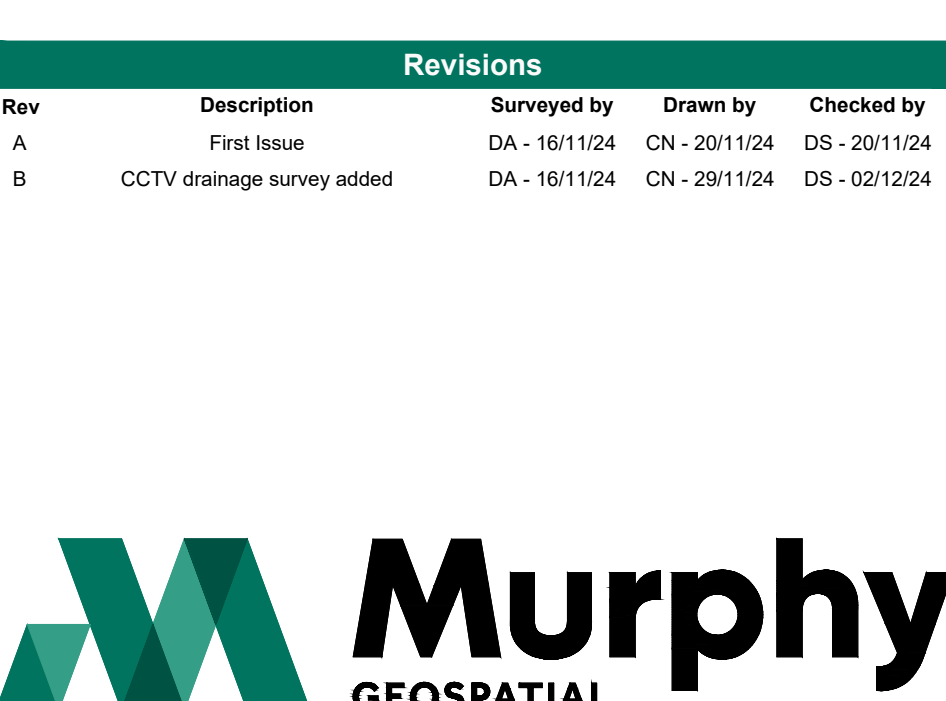
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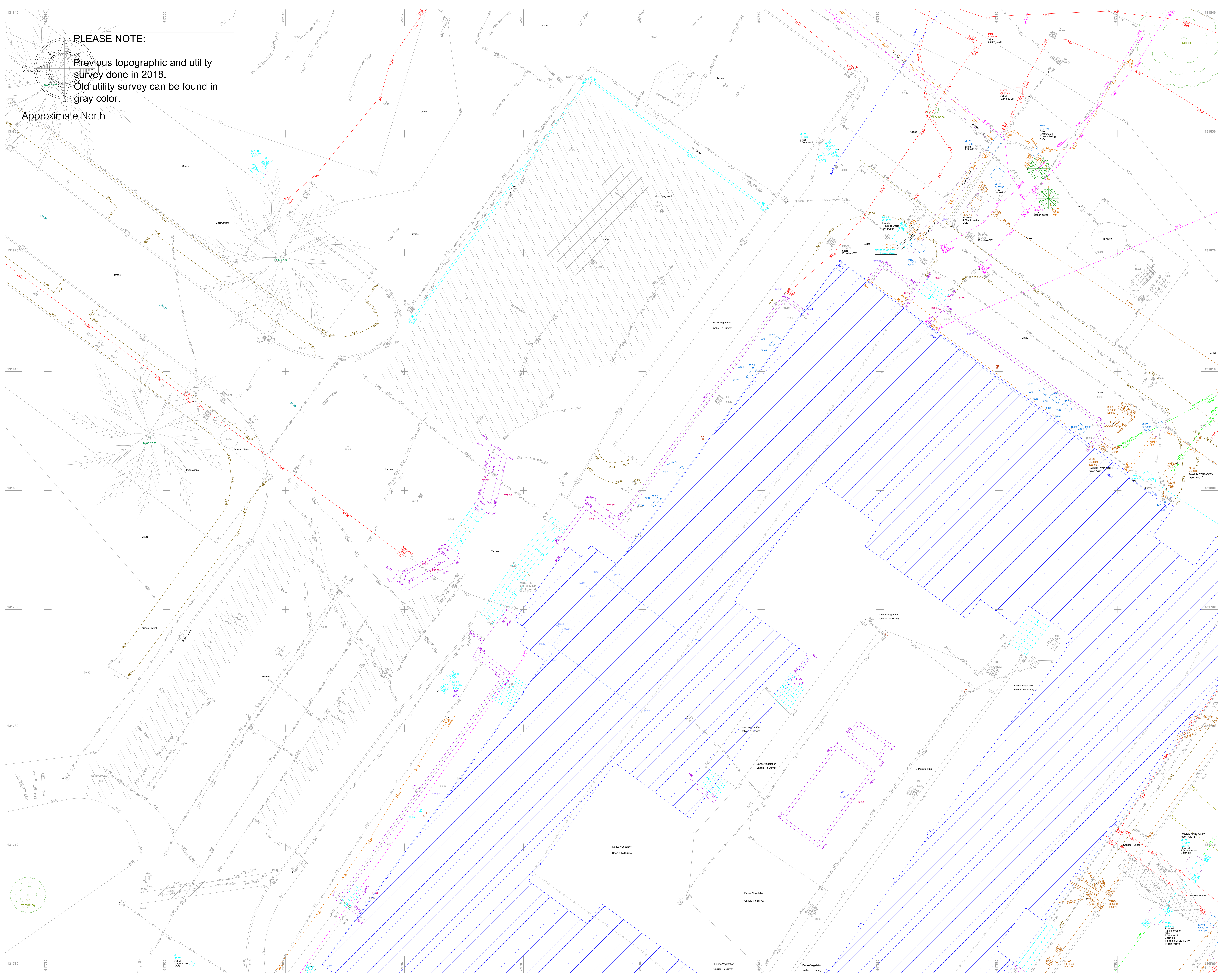
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Location Plan		

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Special Survey Features

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HZZZ ZZZ	HZZZ ZZZ

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Top of The Service

Level Measured For Drainage
At Pits Is To Invert Level
Of The Service

0.80d

0.80d

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Location Plan

Revisions

Rev	Description	Surveyed by	Drawn by	Checked by
A	First Issue	DA - 161124	CN - 201124	DS - 201124
B	CCTV drainage survey added	DA - 161124	CN - 201124	DS - 031224

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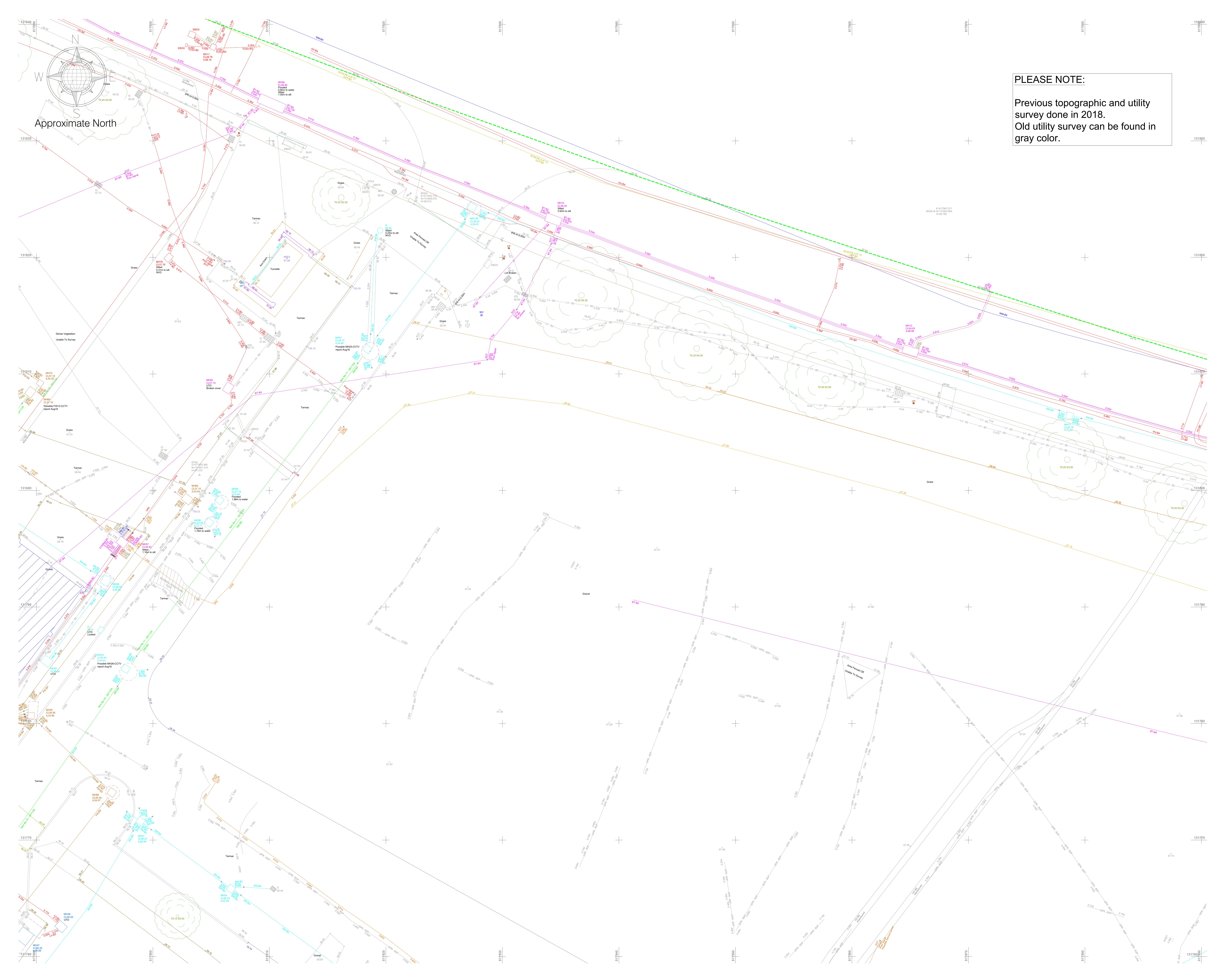
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WD18 8YX
Phone: (+44) 0192 362 4800
Email: info@murphygs.com

London Manchester Birmingham Glasgow Belfast Cork Kildare

Client	TPS Management
Project	Novartis site Horsham - RDR Survey
Site Address	32 Wimblehurst Rd Horsham RH12 2ED
Description	Underground Utility Survey (PAS128)
Survey Grid	Localised OSGB36(15) - Scale Factor 1.0
Survey Datum	GNSS - Ordnance Datum Newlyn (ODN)
RICS Band	Band E
Drawing Scale	1:100 @A0

Drawing Number **GS60622-U-RevB-All-Combined-05**

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PLEASE NOTE:

Previous topographic and utility survey done in 2018.
Old utility survey can be found in gray color.

LEGEND		
Utility Survey Point Features		
AV Air Valve	IC - Commis	MH - Round
BB Belisha Beacon	IC - Electric	MH - Surface Water
CP CCTV Camera Pole	IC - Round	Marker Post
CR Cable Riser	IC - Telecom	Pipe Riser
DP Down Pipe To Ground	IC - TCSU/TFL	Recessed Light
EP Electrical Pole	IC - CATV	Rodding Eye
ER Earth Rod	LP Lamp Post	Stop Cook
FR Fire Hydrant	MH	Traffic Light
GM Gas Meter	MH - District Heat	Valve General
GV Gas Valve	MH - Foul	Water Meter
G Gully		Water Valve

Utility Survey Linework Features		
BT British Telecom	EHV Electrical - Extra High Voltage	
CATV Cable TV	HV Electrical - High Voltage	
CCTV Closed Circuit TV	LV Electrical - Low Voltage	
COMMS Communications	TFL Electrical - TFL	
FOL Fibre Optic Line	SL Street Lighting	
FOLC Fibre Optic Line - Colt	TCSU Traffic Control System Unit	
FOLN Fibre Optic Line - Energis		
FOLP Fibre Optic Line - Fibernet		
FOLM Fibre Optic Line - Mercury		
FOLV Fibre Optic Line - MFS		
FOLT Fibre Optic Line - Tanet		
FOLV Fibre Optic Line - Virgin		
FOLV Fibre Optic Line - Vodafone		
FOLV Fibre Optic Line - Verizon		
FOLV Fibre Optic Line - WCOM		
TS Telecom Service		
Drainage		
FW Combined Water		
FW Foul Water		
SW Surface Water		
RM Rising Main		
Water		
FRW Fire Water		
WM Water Main		
WS Water Service		
Electrical		
E Electrical Service		
EE Electrical Earth		
P Electrical Pilot Cable		

PAS128 Quality Levels	
(Consult document PAS128-2014.pdf for full details)	
XX - A - Quality Level A	XX - B3 - Quality Level B3
XX - B1 - Quality Level B1	XX - B3P - Quality Level B3P
XX - B1P - Quality Level B1P	XX - B4 - Quality Level B4
XX - B2 - Quality Level B2	XX - C - Quality Level C
XX - B2P - Quality Level B2P	XX - D - Quality Level D

Special Survey Features	
E-XXXX-XXX ID A NYYYYYYY Survey Station HZZZ ZZZ	ES-XXXX-XXX ID NYYYYYYY Scan Target HZZZ ZZZ

Utility Survey Abbreviations	
AB Abandoned	CSER Confined Space Entry Required
AR Assumed Route	MH Manhole
BI Illuminated Bollard	NVO Not Visible Outlet
BLD Blocked	OE Overhead Electric
CPD Capped	OT Overhead Telecom
CL Cover Level	SOF Soffit Level
CPD Capped	TFR Taken From Records
CUT Disconnected Utility	TVM Ticket Vending Machine
EOCCTV End of CCTV Survey	UTO Unable to Open
EOC End of GPR Signal	UTO Unable to Survey
EOT End of Trace	UTT Unable to Trace
EOS End of Survey	UKN Unknown
IC Inspection Cover	WL Water Level
IL Invert Level	XKS Service Depth
AC Asbestos Cement	CO Concrete
BC Brick Chamber	DI Ductile Iro
CI Cast Iron	PE Polyethylene
	SI Spun Iron
	ST Steel
	WTR Water

Utility Material Abbreviations	
Level Measured For Ducts/Pipes At Pits Is To Top of The Service	Level Measured For Drainage At Pits Is To Invert Level Of The Service

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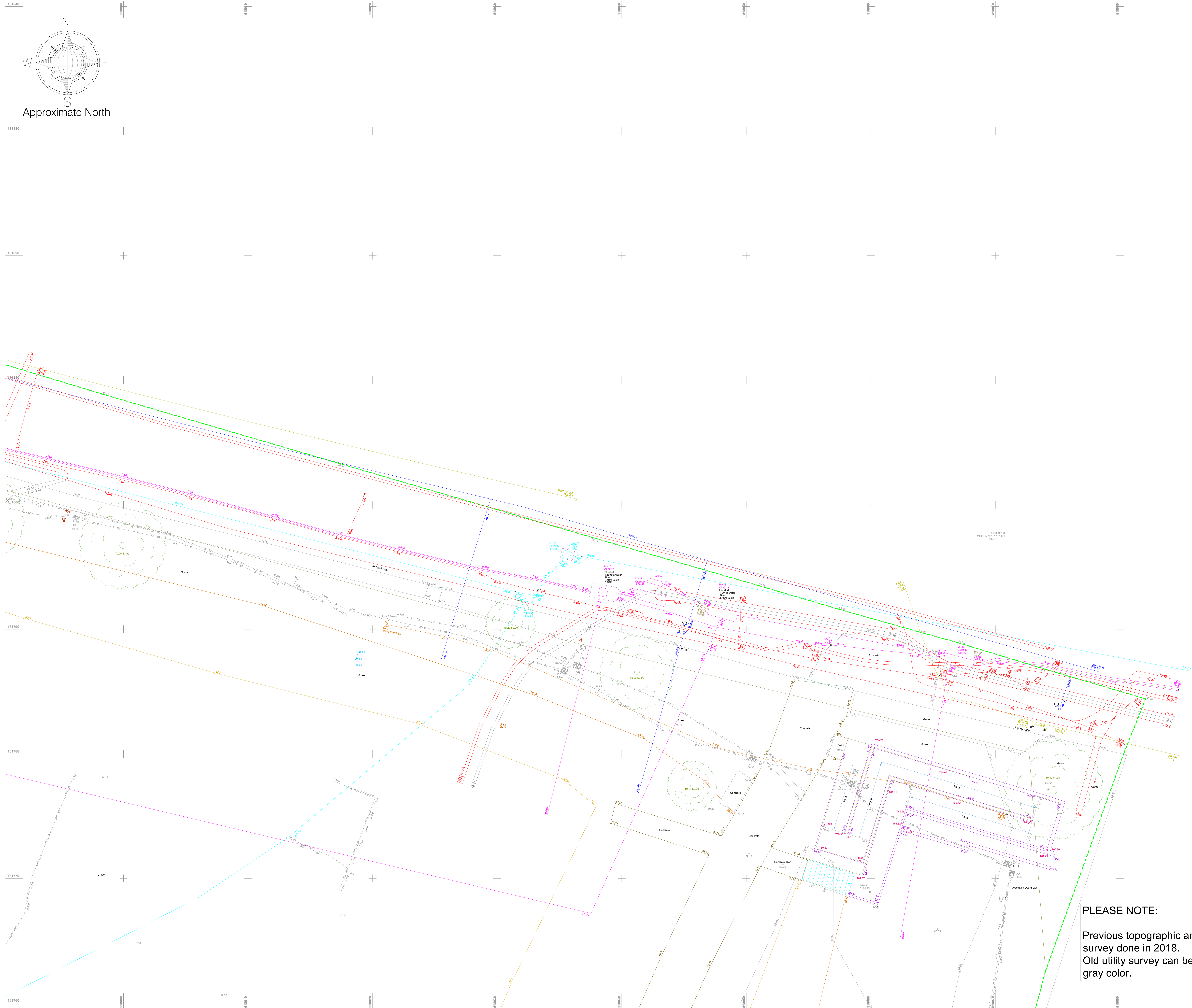


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Survey Grid	Localised OSGB36(15) - Scale Factor 1.0
Survey Datum	GNSS - Ordnance Datum Newlyn (ODN)
RICS Band	Band E
Drawing Scale	1:100 @A0
Drawing Number	GS60622-U-RevB-All-Combined-06



LEGEND		
Utility Survey Point Features		
AV Air Valve	IC Gully Round	MH - Round
BB Belisha Beacon	IC IC	MH - Surface Water
CP CCTV Camera Pole	IC - Comms	Marker Post
CR Cable Riser	IC - Electric	Pipe Riser
DP Down Pipe	IC - Round	Recessed Light
DPO Down Pipe To Ground	IC - Telecom	Rodding Eye
EP Electrical Pole	IC - TCSU/TFL	Stop Cock
ER Earth Rod	IC - CATV	Traffic Light
FR Fire Hydrant	Lamp Post	Telegraph Pole
GM Gas Meter	MH	Valve General
GV Gas Valve	MH - District Heat	Water Meter
G Gully	MH - Foul	Water Valve

Utility Survey Linework Features		
Communications	Electrical - Extra High Voltage	
BT British Telecom	EHV	
Cable TV	Electrical - High Voltage	
CCTV Closed Circuit TV	HV	
COMMS Communications	Electrical - Low Voltage	
Fibre Optic Line	Electrical - TFL	
Fibre Optic Line - Cot	SL	
Fibre Optic Line - Energis	TCSU	
Fibre Optic Line - Fibernet	Gas	
Fibre Optic Line - Level 3	Gas Low Pressure	
Fibre Optic Line - Mercury	Gas Intermediate Pressure	
Fibre Optic Line - MFS	Gas Medium Pressure	
Fibre Optic Line - Tanet	Gas High Pressure	
Fibre Optic Line - Virgin	GPR - Unknown	
Fibre Optic Line - Vodafone	ED Empty Duct	
Fibre Optic Line - Verizon	GPR Anomaly	
Fibre Optic Line - WCOM	UA Unknown Asset	
Telecom Service	UA Passive Sweep	
Drainage	Unknown Cable	
Combined Water	GPR Slab	
Foul Water	GPR Survey Area	
Surface Water	GPR buried structure	
Rising Main	GPR Reinforced Slab	
Water	GPR interface layer (change in material)	
Fire Water	Other	
Water Main	District Heat	
Water Service	Fuel Pipe	
Decommissioned/Abandoned	Manhole Chamber	
Manhole ID	Manhole ID	
Pot End	Pot End	
Scope of Works	Scope of Works	

PAS128 Quality Levels	
(Consult document 'PAS128-2014.pdf' for full details)	
XX - A - Quality Level A	XX - B3 - Quality Level B3
XX - B1 - Quality Level B1	XX - B3P - Quality Level B3P
XX - B1P - Quality Level B1P	XX - B4 - Quality Level B4
XX - B2 - Quality Level B2	XX - C - Quality Level C
XX - B2P - Quality Level B2P	XX - D - Quality Level D

Special Survey Features	
E-XXXX-XXX Survey Station	ES-XXXX-XXX Scan Target
ID N-YYYY-YYY	H-ZZZ-YYY

Utility Survey Abbreviations	
AB Abandoned	CSER Confirmed Space Entry Required
AR Assumed Route	MH Manhole
BI Illuminated Bollard	NVO Not Visible Outlet
BLD Blocked	OE Overhead Electric
CPD Capped	OT Overhead Telecom
CL Cover Level	SOF Soffit Level
CPD Capped	TFR Taken From Rafters
CUT Disconnected Utility	TVM Ticket Vending Machine
EOCCTV End of CCTV Survey	UTO Unable to Open
EOG End of GPR Signal	UTS Unable to Survey
EOT End of Trace	UTT Unable to Trace
EOS End of Survey	UKN Unknown
IC Inspection Cover	WL Water Level
IL Invert Level	XXS Service Depth

Utility Material Abbreviations	
AC Asbestos Cement	CO Concrete
BC Brick Chamber	DI Ductile Iro
CI Cast Iron	PE Polyethylene
SI Spun Iron	ST Steel
WTR Water	

Level Measured For Ducts/Pipes At Pits To Top Of The Service	Level Measured For Drainage At Pits To Invert Level Of The Service
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Location Plan	

Revisions				
Rev	Description	Surveyed by	Drawn by	Checked by
A	First Issue	DA - 16/11/24	CN - 20/11/24	DS - 20/11/24
B	CCTV drainage survey added	DA - 16/11/24	CN - 20/11/24	DS - 03/12/24

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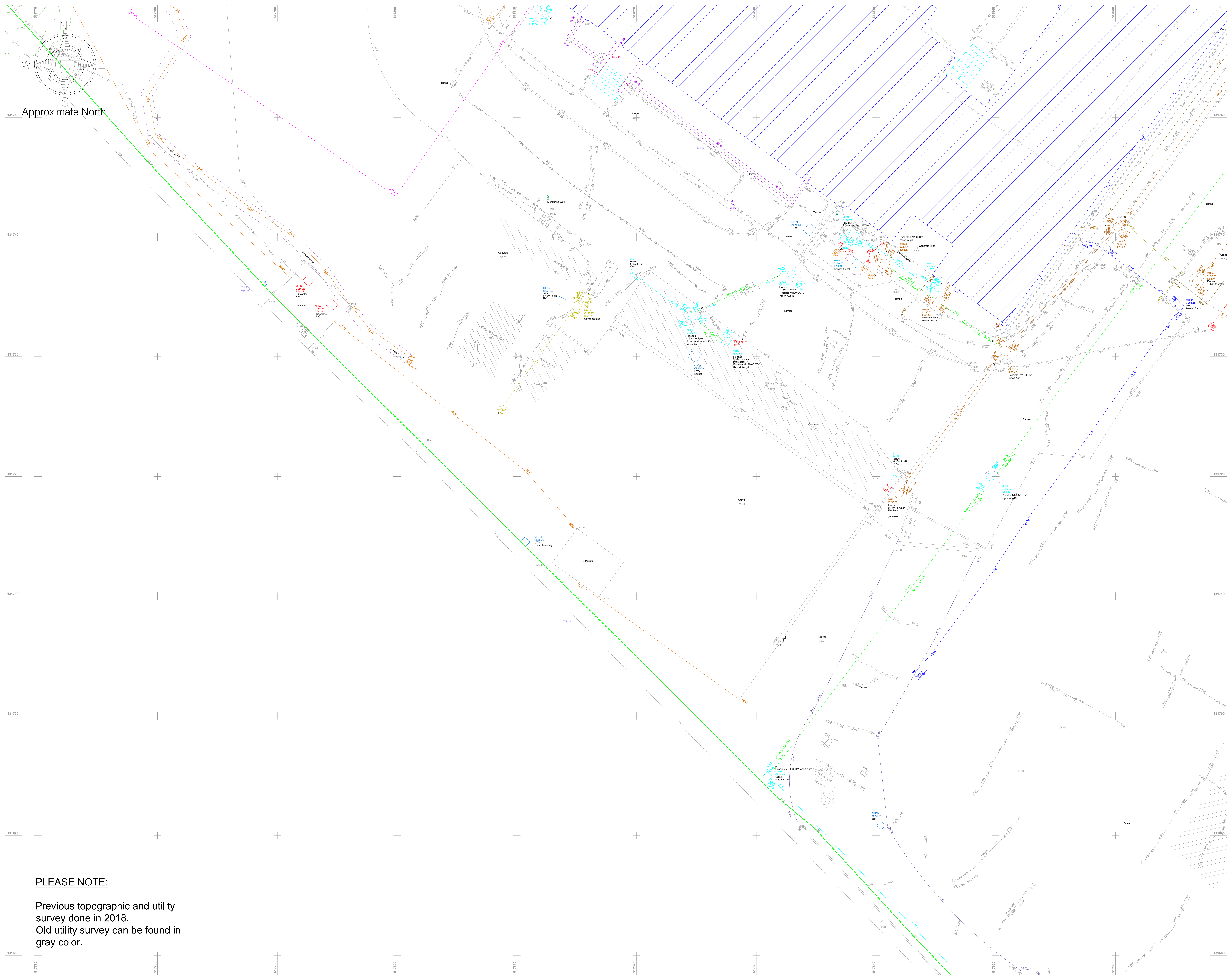
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LEGEND

Utility Survey Point Features

AV Air Valve	IC Gully Round	MH - Round
BB Belisha Beacon	IC	MH - Surface Water
CP CCTV Camera Pole	IC - Comms	Marker Post
CR Cable Riser	IC - Electric	Pipe Riser
DP Down Pipe	IC - Round	Recessed Light
DPG Down Pipe To Ground	IC - Telecom	Rodding Eye
EP Electrical Pole	IC - TCSU/TFL	Stop Cock
ER Earth Rod	IC - CATV	Traffic Light
FR Fire Hydrant	Lamp Post	Telegraph Pole
GM Gas Meter	MH	Valve General
GV Gas Valve	MH - District Heat	Water Meter
G Gully	MH - Foul	Water Valve

Utility Survey Linework Features

BT British Telecom	EHV Electrical - Extra High Voltage
CATV Cable TV	HV Electrical - High Voltage
CCTV Closed Circuit TV	LV Electrical - Low Voltage
COMMS Communications	TFL Electrical - TFL
FOL Fibre Optic Line	SL Street Lighting
FOLC Fibre Optic Line - Colt	TCSU Traffic Control System Unit
FOLE Fibre Optic Line - Energis	Gas
FOLF Fibre Optic Line - Fibernet	Gas Service
FOLL Fibre Optic Line - Level 3	Gas Low Pressure
FOLM Fibre Optic Line - Mercury	Gas Intermediate Pressure
FOLN Fibre Optic Line - MFS	Gas Medium Pressure
FOLT Fibre Optic Line - Tanet	Gas High Pressure
FOLV Fibre Optic Line - Virgin	GPR - Unknown
FOLW Fibre Optic Line - Vodafone	GPR Anomaly
FOLX Fibre Optic Line - Verizon	Empty Duct
FOLY Fibre Optic Line - WCOM	GPR Anomaly
TS Telecom Service	UA Possible Sweep
Drainage	Unknown Cable
FW - Combined Water	GPR Slab
FW - Foul Water	GPR Survey Area
FW - Surface Water	GPR buried structure
RM Rising Main	GPR Reinforced Slab
Water	GPR interface layer (change in material)
FRW Fire Water	Other
WM Water Main	District Heat
WS Water Service	Fuel Pipe
Electrical	Decommissioned/Abandoned
ES Electrical Service	Manhole Chamber
EE Electrical Earth	Manhole ID
P Electrical Pilot Cable	PEO Pot End
	Scope of Works

PAS128 Quality Levels
(Consult document PAS128-2014.pdf for full details)

XX - A - Quality Level A	XX - B3 - Quality Level B3
XX - B1 - Quality Level B1	XX - B3P - Quality Level B3P
XX - B1P - Quality Level B1P	XX - B4 - Quality Level B4
XX - B2 - Quality Level B2	XX - C - Quality Level C
XX - B2P - Quality Level B2P	XX - D - Quality Level D

Special Survey Features

E-XXXX-XXX ID A NYYYY YYY Survey Station	ES-XXXX-XXX ID HYYYY YYY Scan Target
HZZZ ZZZ	HZZZ ZZZ

Utility Survey Abbreviations

AB Abandoned	CSER Confined Space Entry Required
AR Assumed Route	MH Manhole
BI Illuminated Bollard	NVO Not Visible Outlet
BLD Blocked	OE Overhead Electric
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CL Cover Level	SOF Soffit Level
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EOT End of Trace	UTT Unable to Trace
EOS End of Survey	UKN Unknown
IC Inspection Cover	WL Water Level
IL Invert Level	XXS Service Depth
AC Asbestos Cement	CO Concrete
BC Brick Chamber	DI Ductile Iro
CI Cast Iron	PE Polyethylene
Level Measured For Ducts/Pipes At Pits Is To Top of The Service	Level Measured For Drainage At Pits Is To Invert Level Of The Service

Utility Material Abbreviations

AC Asbestos Cement	CO Concrete	SI Spun Iron
BC Brick Chamber	DI Ductile Iro	ST Steel
CI Cast Iron	PE Polyethylene	WTR Water

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Location Plan

Revisions

Rev	Description	Surveyed by	Drawn by	Checked by
A	First Issue	DA - 16/11/24	CN - 20/11/24	DS - 20/11/24
B	CCTV drainage survey added	DA - 16/11/24	CN - 20/11/24	DS - 03/12/24

Client
TPS Management

Project
Novartis site Horsham - GPR Survey

Site Address
32 Wimbleshurst Rd
Horsham
RH12 2ED

Description
Underground Utility Survey (PAS128)

Survey Grid
Localised OSGB36(15) - Scale Factor 1.0

Survey Datum
GNSS - Ordnance Datum Newlyn (ODN)

RICS Band
Band E

Drawing Scale
1:100 @A0

Drawing Number
GS60622-U-RevB-All-Combined-08

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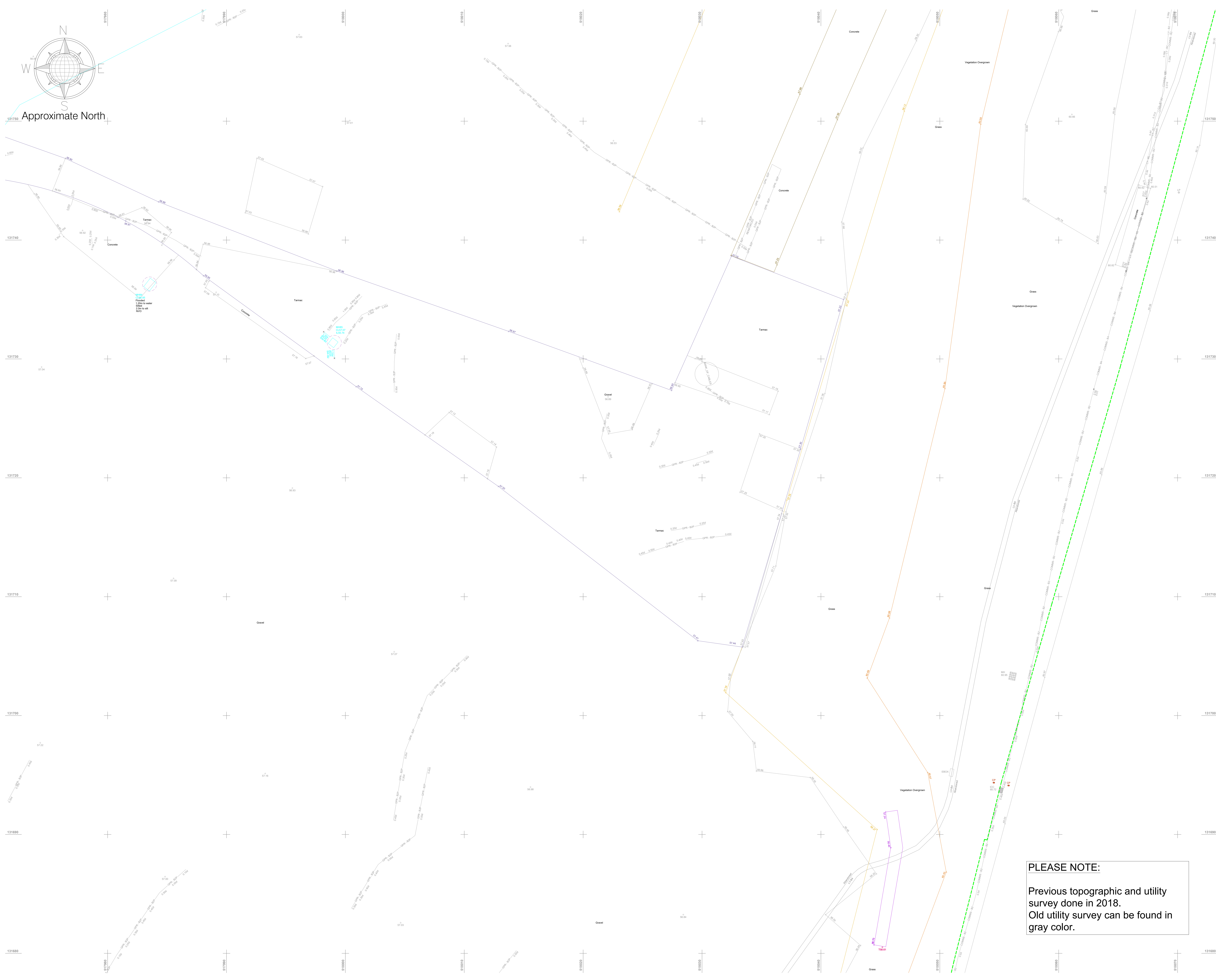
PLEASE NOTE:

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Logos:



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LEGEND		
Utility Survey Point Features		
AV Air Valve	GR Gully Round	MH - Round
BB Belisha Beacon	IC IC	MH - Surface Water
CP CCTV Camera Pole	IC - Comm	MK Marker Post
CR Cable Riser	IC - Electric	12.24 Pipe Riser
DP Down Pipe	IC - Round	RE Recessed Light
DPC Down Pipe To Ground	IC - Telecom	RE Rodding Eye
EP Electrical Pole	IC - TCSU/TFL	SC Stop Cock
ER Earth Rod	IC - CATV	TL Traffic Light
FR Fire Hydrant	LP Lamp Post	TP Telegraph Pole
GM Gas Meter	MH	V Valve General
GV Gas Valve	MH - District Heat	WM Water Meter
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Utility Survey Linework Features		
Communications	EHV Electrical - Extra High Voltage	
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CATV Cable TV	EHV Electrical - Low Voltage	
CCTV Closed Circuit TV	EHV Electrical - TFL	
COMMS Communications	EHV Street Lighting	
FOL Fibre Optic Line	EHV Traffic Control System Unit	
FOLC Fibre Optic Line - Colt	Gas	
FOLC Fibre Optic Line - Energis	Gas Service	
FOLC Fibre Optic Line - Fibernet	Gas Low Pressure	
FOLC Fibre Optic Line - Level 3	Gas Intermediate Pressure	
FOLC Fibre Optic Line - Mercury	Gas Medium Pressure	
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FOLC Fibre Optic Line - Tanet	GPR - Unknown	
FOLC Fibre Optic Line - Virgin	GPR Empty Duct	
FOLC Fibre Optic Line - Vodafone	GPR GPR Anomaly	
FOLC Fibre Optic Line - Verizon	GPR Unknown Asset	
FOLC Fibre Optic Line - WCOM	GPR UA Passive Sweep	
IS Telecom Service	GPR Unknown Cable	
Drainage	GPR GPR Slab	
Combined Water	GPR GPR Survey Area	
Foul Water	GPR GPR buried structure	
Surface Water	GPR GPR Reinforced Slab	
Rising Main	GPR GPR interface layer (change in material)	
Water	Other	
Fire Water	District Heat	
Water Main	Fuel Pipe	
Water Service	Decommissioned/Abandoned	
Manhole	Manhole Chamber	
Manhole ID	Manhole ID	
Electrical	PEO Pot End	
Electrical Service	Scope of Works	
Electrical Earth		
Electrical Pilot Cable		

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XX - B2 - Quality Level B2	XX - C - Quality Level C	
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Special Survey Features		
E-XXXX-XXX	ES-XXXX-XXX	
ID A NYYYYY YYY Survey Station	ID N NYYYYY YYY Scan Target	
HZZZ ZZZ	HZZZ ZZZ	

Utility Survey Abbreviations		
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IL Invert Level		

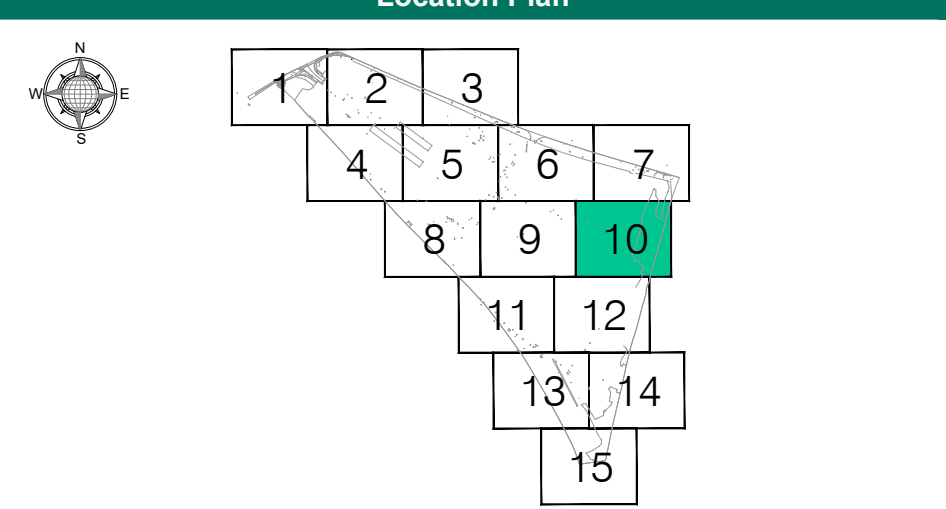
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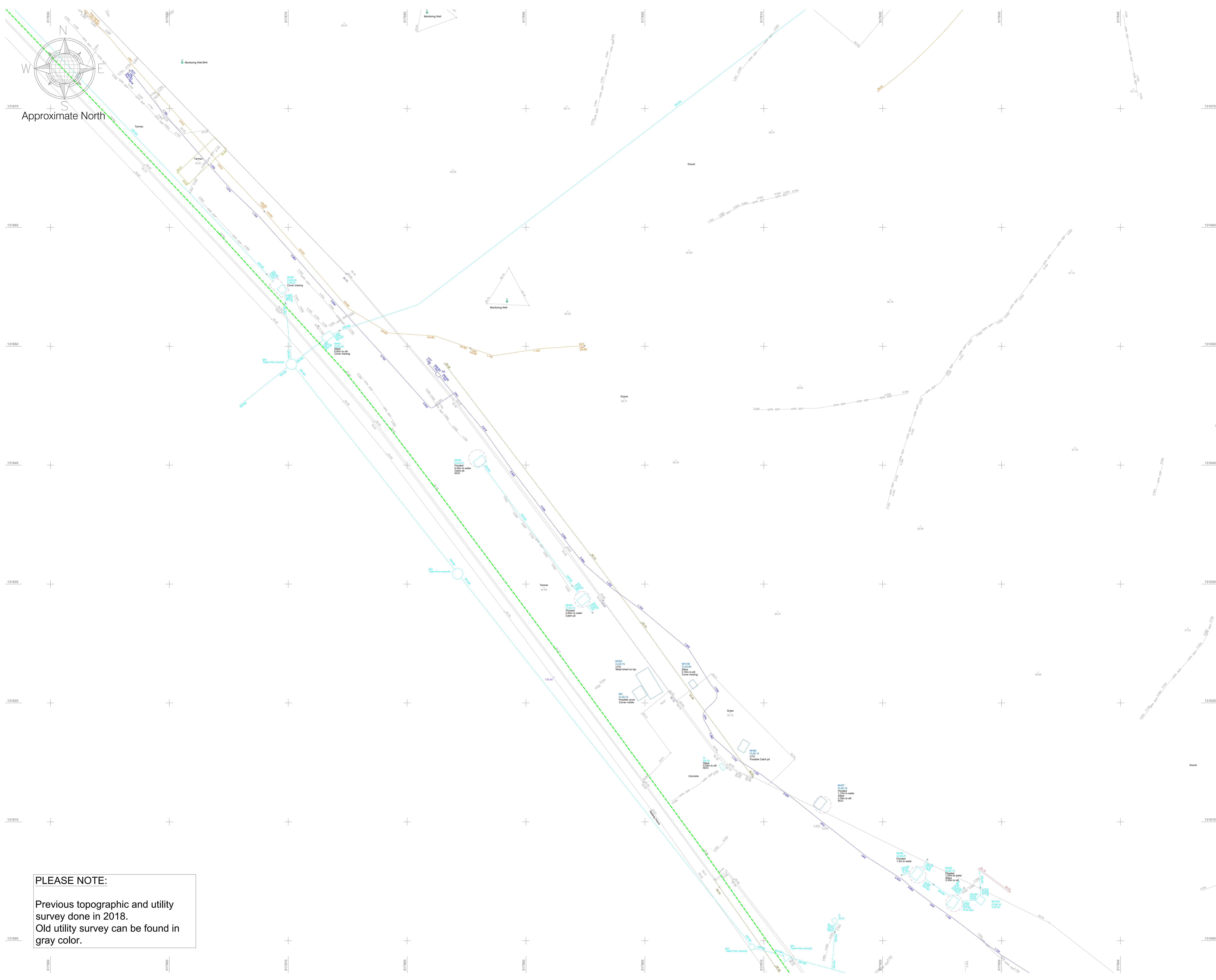


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FOLF Fibre Optic Line - Fibernet	G Gas Service	
FOLL Fibre Optic Line - Level 3	GLP Gas Low Pressure	
FOLM Fibre Optic Line - Mercury	GP Gas Intermediate Pressure	
FOLN Fibre Optic Line - MFS	GMP Gas Medium Pressure	
FOLT Fibre Optic Line - Tanet	GHP Gas High Pressure	
FOLV Fibre Optic Line - Virgin	GPR Gas Pressure	
FOLV Fibre Optic Line - Vodafone	GPR + Unknown	
FOLVN Fibre Optic Line - Verizon	ED Empty Duct	
TS Telecom Service	GPR Anomaly	
	UA Unknown Asset	
	UA Possible Sweep	
	UCL Unknown Cable	
	GPR Slab	
	GPR Survey Area	
	GPR buried structure	
	GPR Reinforced Slab	
	GPR interface layer (change in material)	
	Other	
	DH District Heat	
	FU Fuel Pipe	
	XX Decommissioned/Abandoned	
	Manhole Chamber	
	Manhole ID	
	PEO Pot End	
	Scope of Works	

PAS128 Quality Levels		
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XX - B2P - Quality Level B2P	XX - D - Quality Level D	

Special Survey Features		
E-XXXX-XXX	ES-XXXX-XXX	
ID A NYYYYYYY Survey Station	ID NYYYYYYY Scan Target	
HZZZZ ZZZ	HZZZZ ZZZ	

Utility Survey Abbreviations		
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BLD Blocked	OE Overhead Electric	
CPD Capped	OT Overhead Telecom	
CL Cover Level	SOF Soffit Level	
CPD Capped	TFR Taken From Records	
CUT Disconnected Utility	TVM Ticket Vending Machine	
EOCCTV End of CCTV Survey	UTO Unable to Open	
EOG End of GPR Signal	UTD Unable to Trace	
EOT End of Trace	UTT Unable to Trace	
EOS End of Survey	UKN Unknown	
IC Inspection Cover	WL Water Level	
IL Invert Level	XXS Service Depth	

Utility Material Abbreviations		
AC Asbestos Cement	CO Concret	SI Spun Iron
BC Brick Chamber	DI Ductile Iro	ST Steel
CI Cast Iron	PE Polyethylene	WTR Water

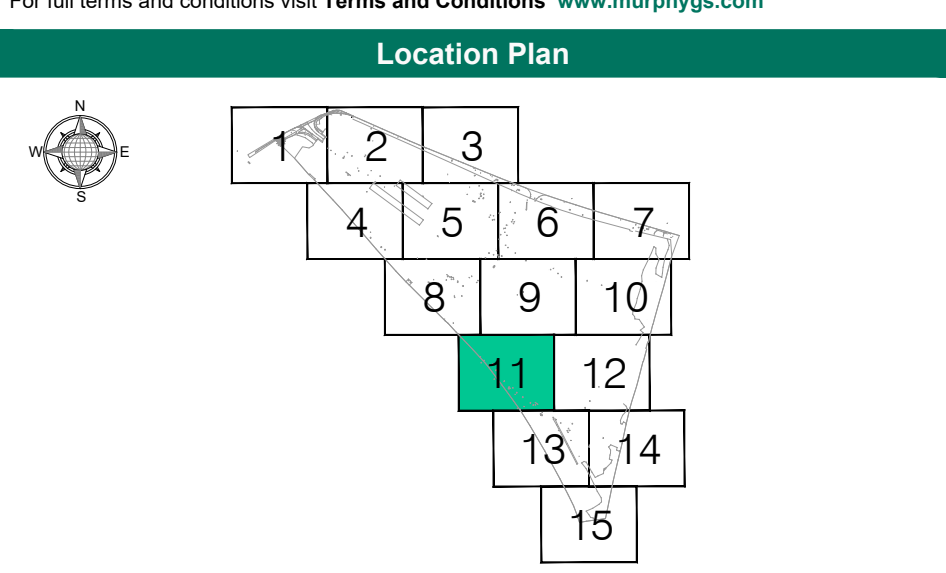
Level Measured For Ducts/Pipes At Pits Is To Top of The Service	Level Measured For Drainage At Pits Is To Invert Level of The Service
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B	CCTV drainage survey added	DA - 16/11/24	CN - 20/11/24	DS - 03/12/24

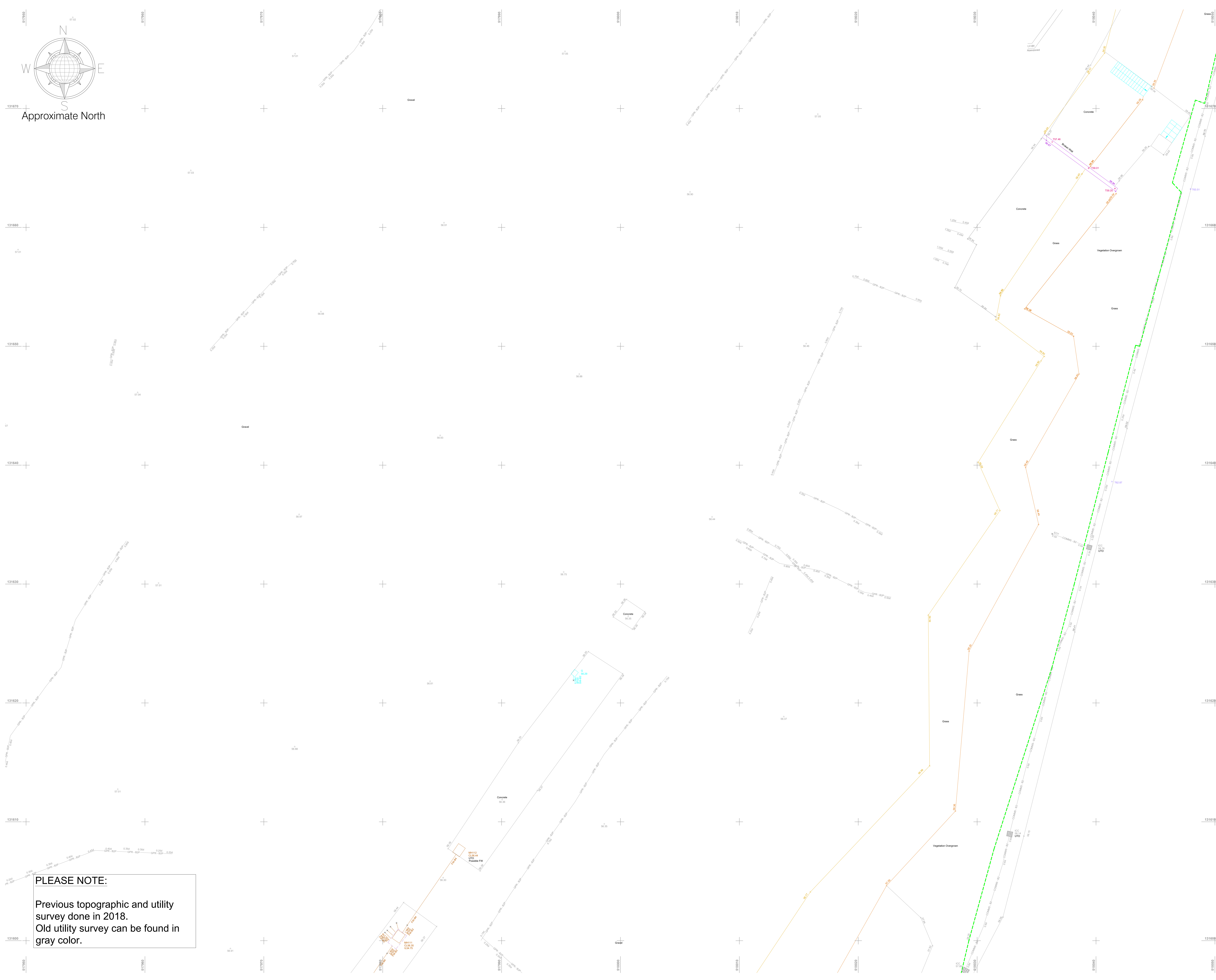


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London Manchester Birmingham Glasgow Belfast Cork Kildare

Client	TPS Management
Project	Novartis site Horsham - GPR Survey
Site Address	32 Wimbleshurst Rd Horsham RH12 2ED
Description	Underground Utility Survey(PAS128)
Survey Grid	Localised OSGB36(15) - Scale Factor 1.0
Survey Datum	GNSS - Ordnance Datum Newlyn (ODN)
RICS Band	Band E
Drawing Scale	1:100 @A0
Drawing Number	GS60622-U-RevB-All-Combined-11



Approximate North

PLEASE NOTE:

Previous topographic and utility survey done in 2018.
Old utility survey can be found in gray color.

LEGEND		
Utility Survey Point Features		
AV Air Valve	IC Gully Round	MH MH - Round
BB Belisha Beacon	IC IC	MH MH - Surface Water
CP CCTV Camera Pole	IC IC - Comms	MK Marker Post
CR Cable Riser	IC IC - Electric	12.24 Pipe Riser
DP Down Pipe	IC IC - Round	RE Recessed Light
DPG Down Pipe To Ground	IC IC - Telecom	RE Rodding Eye
EP Electrical Pole	IC IC - TCSU/TFL	SC Stop Cook
ER Earth Rod	IC IC - CATV	TL Traffic Light
FR Fire Hydrant	LP Lamp Post	TP Telegraph Pole
GM Gas Meter	MH MH	V Valve General
GV Gas Valve	MH MH - District Heat	WM Water Meter
G Gully	MH MH - Foul	WV Water Valve

Utility Survey Linework Features		
BT British Telecom	EHV Electrical - Extra High Voltage	
CATV Cable TV	HV Electrical - High Voltage	
CCTV Closed Circuit TV	LV Electrical - Low Voltage	
COMMS Communications	TFL Electrical - TFL	
FOL Fibre Optic Line	SL Street Lighting	
FOLC Fibre Optic Line - Cot	TCSU Traffic Control System Unit	
FOLE Fibre Optic Line - Energis	Gas	
FOLF Fibre Optic Line - Fibernet	Gas Service	
FOLM Fibre Optic Line - MFS	Gas Low Pressure	
FOLN Fibre Optic Line - Nant	Gas Intermediate Pressure	
FOLV Fibre Optic Line - Virgin	Gas Medium Pressure	
FOLW Fibre Optic Line - Vodafone	Gas High Pressure	
FOLX Fibre Optic Line - X	GPR - Unknown	
FOLY Fibre Optic Line - Y	GPR Anomaly	
FOLZ Fibre Optic Line - Z	Empty Duct	
UAAPS UAAPS	GPR Asset	
TS Telecom Service	UA Unknown Asset	
	UCL Unknown Cable	
	Drainage	
	CW Combined Water	
	FW Foul Water	
	SW Surface Water	
	RM Rising Main	
	Water	
	FRW Fire Water	
	WM Water Main	
	WS Water Service	
	Electrical	
	E Electrical Service	
	EE Electrical Earth	
	P Electrical Pilot Cable	
	Other	
	DH District Heat	
	FU Fuel Pipe	
	XX Decommissioned/Abandoned	
	Manhole Chamber	
	Manhole ID	
	PEO Pot End	
	Scope of Works	

PAS128 Quality Levels		
(Consult document 'PAS128-2014.pdf' for full details)		
XX - A - Quality Level A	XX - B3 - Quality Level B3	
XX - B1 - Quality Level B1	XX - B3P - Quality Level B3P	
XX - B1P - Quality Level B1P	XX - B4 - Quality Level B4	
XX - B2 - Quality Level B2	XX - C - Quality Level C	
XX - B2P - Quality Level B2P	XX - D - Quality Level D	

Special Survey Features		
E-XXXX-XXX	ES-XXXX-XXX	
ID A NYYYYYYY Survey Station	ID N NYYYYYYY Scan Target	
HZZZ ZZZ	HZZZ ZZZ	

Utility Survey Abbreviations		
AB Abandoned	CSER Confined Space Entry Required	
AR Assumed Route	MH Manhole	
BI Illuminated Bollard	NVO Not Visible Outlet	
BLD Blocked	OE Overhead Electric	
CPD Capped	OT Overhead Telecom	
CL Cover Level	SOF Soffit Level	
CPD Capped	TFR Taken From Raucous	
CUT Disconnected Utility	TVM Ticket Vending Machine	
EOCCTV End of CCTV Survey	UTO Unable to Open	
EOC End of GPR Signal	UTD Unable to Trace	
EOT End of Trace	UKN Unknown	
EOS End of Survey	WL Water Level	
IC Inspection Cover	XGS Service Depth	
IL Invert Level		

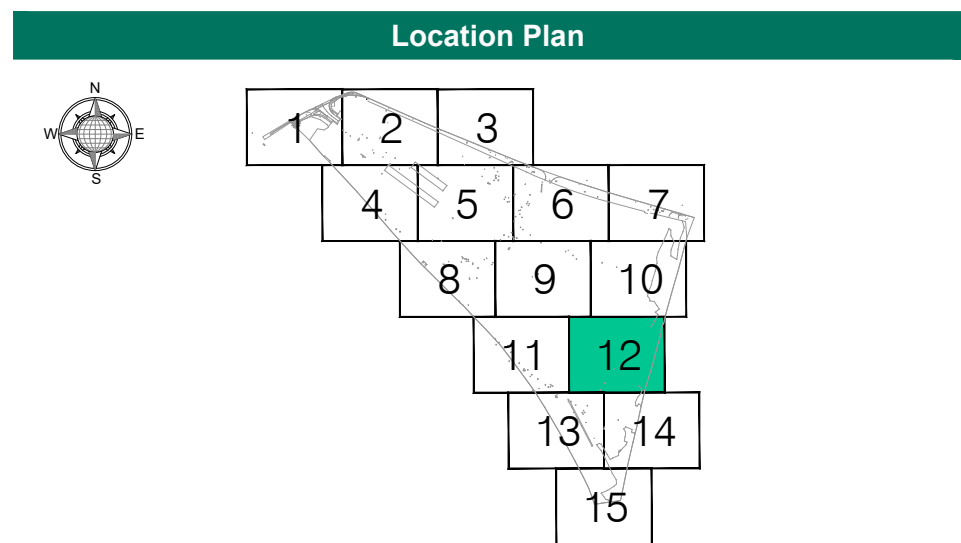
Utility Material Abbreviations		
AC Asbestos Cement	CO Concrete	SI Spun Iron
BC Brick Chamber	DI Ductile Iro	ST Steel
CI Cast Iron	PE Polyethylene	WTR Water
Level Measured For Ducts/Pipes At Pits Is To Top of The Service		Level Measured For Drainage At Pits Is To Invert Level of The Service

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Revisions				
Rev	Description	Surveyed by	Drawn by	Checked by
A	First Issue	DA - 16/11/24	CN - 20/11/24	DS - 20/11/24
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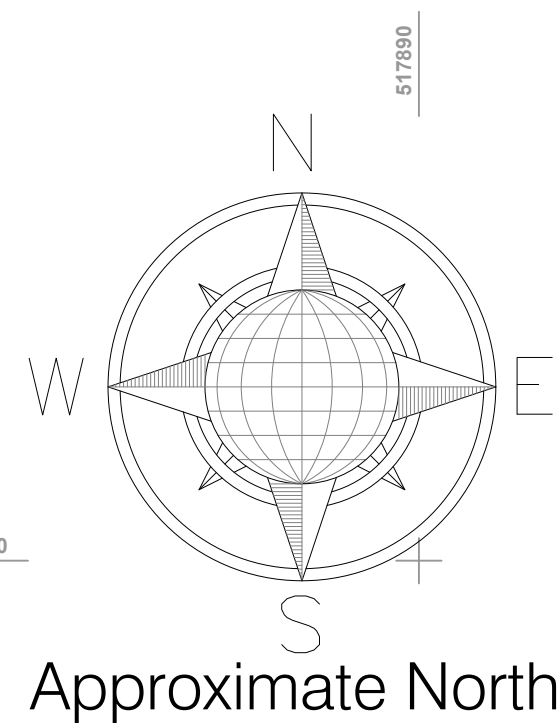


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Client	TPS Management
Project	Novartis site Horsham - GPR Survey
Site Address	32 Wimblehurst Rd Horsham RH12 2ED
Description	Underground Utility Survey (PAS128)
Survey Grid	Localised OSGB36(15) - Scale Factor 1.0
Survey Datum	GNSS - Ordnance Datum Newlyn (ODN)
RICS Band	Band E
Drawing Scale	1:100 @A0
Drawing Number	GS60622-U-RevB-All-Combined-12



PLEASE NOTE:

Previous topographic and utility survey done in 2018.
Old utility survey can be found in gray color.

LEGEND			
Utility Survey Point Features			
AV	Air Valve	GL	Gas Lateral
BB	Belisha Beacon	IC	IC - Electric
CC	CCTV Camera Pole	IC	IC - Comms
CR	Cable Riser	ICE	ICE - Electric
CP	Close Pipe	IC	IC - Radio
DPC	Down Pipe to Ground	IC	IC - Telecom
ER	Earth Rod	IC	IC - TCSU/ITL
FR	Fire Hydrant	IC	IC - CATV
GM	Gas Meter	LP	Lamp Post
GV	Gas Valve	MH	MH
GU	Gully	MH - District Heat	MH - Surface Water
		MH - Foul	MH - Water

Utility Service Linework Features			
BT	Communications	ERV	Electrical
BT	British Telecom	ERV	Electrical - Extra High Voltage
CATV	Cable TV	HLV	Electrical - High Voltage
CATV	Closed Circuit TV	LV	Electrical - Low Voltage
CT	Cable Television	TEL	Electrical - TEL
FOL	Fibre Optic Line	SL	Street Lighting
FOL	Fibre Optic Line - Coit	TCSU	Trunk Control System Unit
FOL	Fibre Optic Line - Energy		Gas
FOL	Fibre Optic Line - Fibernet		Gas Service
FOL	Fibre Optic Line - Level 3	GLP	Gas Pressure
FOL	Fibre Optic Line - Mercury	GIP	Gas Intermediate Pressure
FOL	Fibre Optic Line - MSC	GMP	Gas Medium Pressure
FOL	Fibre Optic Line - Tarell	GMP	Gas Medium Pressure
FOL	Fibre Optic Line - Virgin	GPR	Gas Pressure
FOL	Fibre Optic Line - Volantone	GPR + Unknown	
FOLVN	Fibre Optic Line - Verizon	GPR	Empty Gas Pipe
FOLW	Fibre Optic Line - WCOM	UPR	Unknown
FOLW	Telephone Service	UA	Unknown Assembly
		UCL	Unknown Cable
	Drainage		GPR Slat
-CW	Combined Water		GPR Survey Area
-FW	Foul Water		GPR buried structure
-RW	Rising Water		GPR Reinforced slab
-RM	Rising Main		GPR interface layer (change in material)
Water			Other
FW	Fire Water	DH	Distriect Heat
WS	Water Main	FU	Fuel Pipe
WS	Water Service		Decommissioned/Abandoned
	Electrical		Manhole Chamber
E	Electrical Service		Manhole ID
E	Electrical Service		Put End
E	Electrical Pilot Cable		Scope of Works

PAS128 Quality Levels			
(Consult document 'PAS128:2014.pdf' for full details)			
—XX - A—	Quality Level A	—XX - B3—	Quality Level B3
—XX - B1—	Quality Level B1	—XX - B3P—	Quality Level B3P
—XX - B1P—	Quality Level B1P	—XX - B4—	Quality Level B4
—XX - B2—	Quality Level B2	—XX - C—	Quality Level C
—XX - B2P—	Quality Level B2P	—XX - D—	Quality Level D

Special Survey Features

ID E=XXXX.XXX N=YYYY.YYY Survey Station H=ZZZ.ZZZ	ID E=XXXX.XXX N=YYYY.YYY Scan Target H=ZZZ.ZZZ
---	--

Utility Survey Abbreviations			
AB	Abandoned	CSER	Confined Space Entry Required
AR	Assumed Route	MH	Manhole
BI	Illuminated Bollard	NVO	Not Visible Outlet
BLD	Blocker	OE	Overhead Electric
CPD	Capped	OT	Overhead Telecom
CL	Cover Level	SOF	Soft Level
CPD	Capped	TFR	Taken From Records
UC	Disconnected Utility	MT	Master Venting Machine
EOC/TV	End of CCTV Survey	UTO	Unable to Open
EOG	End of GPR Signal	UTS	Unable to Survey
EOT	End of Traverse	UTT	Unable to Trace
EOS	End of Survey	UNK	Unknown
IC	Inspection Cover	WL	Water Level
IL	Invert Level	XXG	Service Depth

Utility Material Abbreviations			
AC	Asbestos Cement	CO	Concrete
BC	Brick Chamber	DI	Ductile Iro
CI	Cast Iron	PE	Polyethylene
		SI	Spun Iron
		ST	Steel
		WTR	Water

Level Measured For Ducts/Pipes At Pits To Top Of The Service	Level Measured For Drainage At Pits Is To Invert Level Of The Service
_____	_____

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Location Plan

A compass rose indicates North (N), South (S), East (E), and West (W). The path is marked with numbers 1 through 15. The path starts at point 1, goes right to 2, right to 3, down to 4, right to 5, right to 6, down to 7, down to 8, right to 9, right to 10, down to 11, right to 12, down to 13, right to 14, and finally down to 15. The path is highlighted with a dashed line.

Revisions				
Rev	Description	Surveyed by	Drawn by	Checked by
A	First Issue	DA - 16/11/24	CN - 20/11/24	DS - 20/11/24
B	CCTV drainage survey added	DA - 16/11/24	CN - 29/11/24	DS - 02/12/24



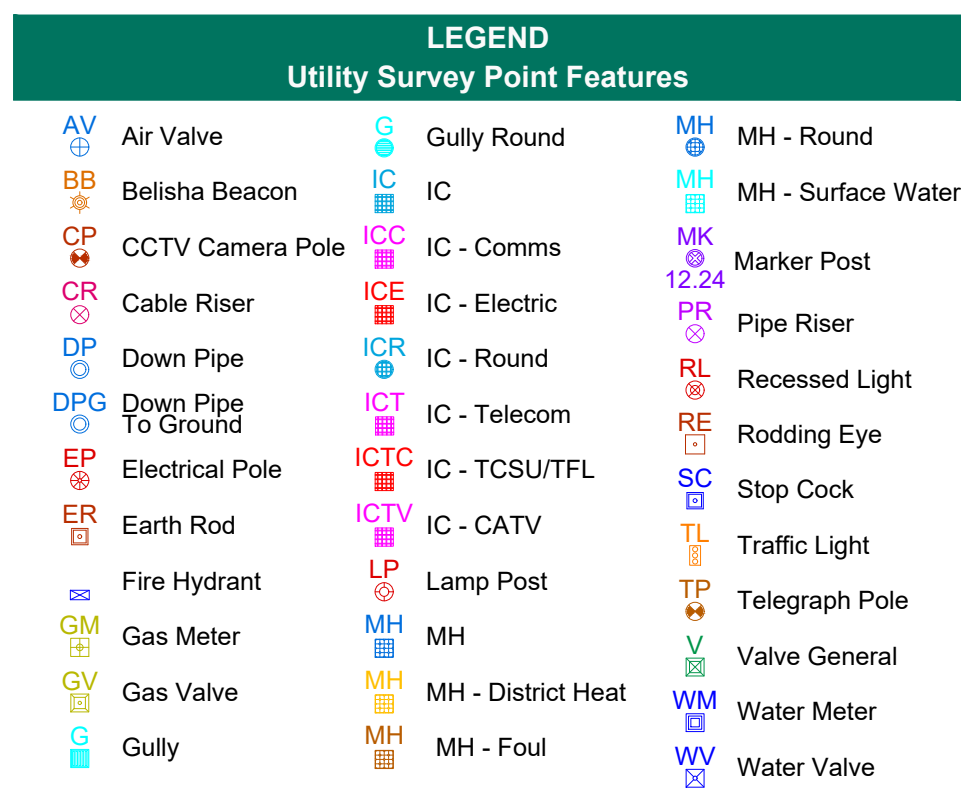
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RICS Band	Band E
Drawing Scale	1:100 @A0
Drawing Number	MS6062Z-U-RevB-All-Combined-

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Utility Service Linework Features		
BT	Communications	Electrical
BT	British Telecom	Electrical - Extra High Voltage
CATV	Cable TV	Electrical - HV
CATV	Closed Circuit TV	Electrical - Low Voltage
CC	Communications	Electrical - TFL
FOL	Fiber Optic Line	Steel Lighting
FOL	Fiber Optic Line - Coit	Telephone Control System Unit
FOL	Fiber Optic Line - Energy	Gas
FOL	Fiber Optic Line - Fibernet	Gas Service
FOL	Fiber Optic Line - Level 5	Gas - Pressure
FOL	Fiber Optic Line - Mercury	Gas Intermediate Pressure
FOL	Fiber Optic Line - MPSC	Gas Medium Pressure
FOL	Fiber Optic Line - Tandem	Gas - Unknown
FOL	Fiber Optic Line - Virgin	GPR + Unknown
FOL	Fiber Optic Line - Vison	ED
FOL	Fiber Optic Line - Verizon	GPR
FOL	Fiber Optic Line - WCOM	Unknown
FOL	Telephone Service	UA
		UA - Passive Shield
		Unknown Cable
		GPR Sibs
		GPR Surface Area
		GPR buried structure
		GPR Reinforced Concrete Slab
		GPR interface layer (change in material)
		Water
		Water
		DH
		Distriect Heat
		FU
		Fuel Pipe
		Decommissioned/Abandoned
		Manhole Chamber
		Manhole ID
		Part End
		Scope of Works

PAS128 Quality Levels			
(Consult document 'PAS128:2014.pdf' for full details)			
--X - A	Quality Level A	--X - B3	Quality Level B3
--X - B1	Quality Level B1	--X - B3P	Quality Level B3P
--X - B1P	Quality Level B1P	--X - B4	Quality Level B4
--X - B2	Quality Level B2	--X - C	Quality Level C
--X - B2P	Quality Level B2P	--X - D	Quality Level D

Special Survey Features			
ID		E=XXXX.XXX N=YYYY.YYY H=ZZZ.ZZZ	Survey Station
ID		E=XXXX.XXX N=YYYY.YYY H=ZZZ.ZZZ	Scan Target

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EOC2V	End of CCTV Survey	UTG	Unable to Open
EOG	End of GPR Signal	UTS	Unable to Survey
EOT	End of Trace	UTT	Unable to Trace
ES	End of Survey	UNK	Unknown
IC	Inspection Camera	WL	Water Level
IL	Invert Level	XXd	Service Depth

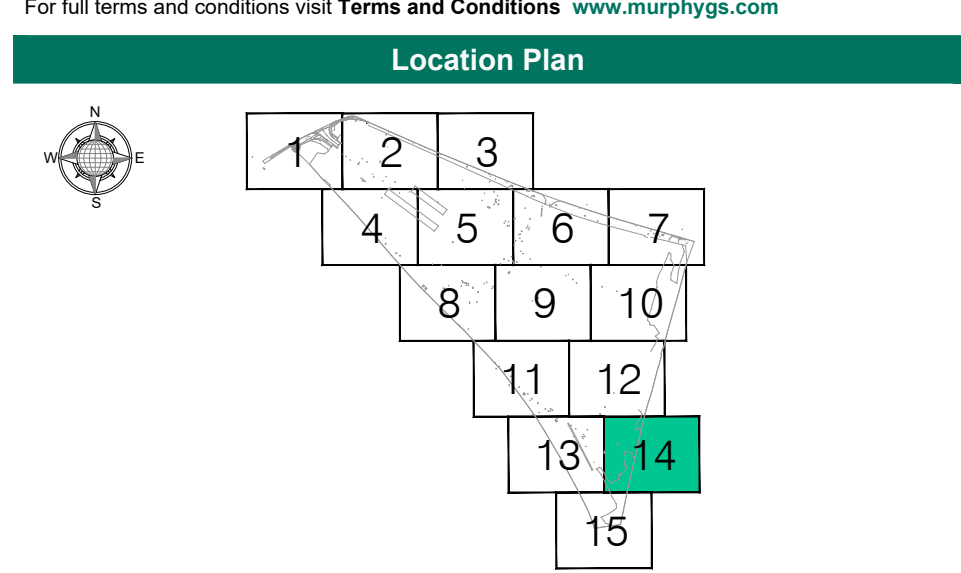
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_____	_____

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Project	Novartis site Horsham - GPR Survey
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Approximate North

131510

131500

131490

131480

131470

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131390

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