



SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	Symbol description	[Symbol]	Symbol description	[Symbol]	Symbol description



### LEGEND

#### Utility Survey Point Features

FH	Fire Hydrant	IC-E	IC - Electric	MHF	MH - Foul
GV	Gas Valve	IC-R	IC - Round	MH	MH - Round
G	Gully	IC-T	IC - Telecom	MHS	MH - Surface Water
GR	Gully Round	IC-Tr	IC - Traffic	SC	Stop Cock
IC	Inspection Cover	IC-CATV	IC - CATV	WM	Water Meter
ICC	IC - Comms	MH	Manhole	WV	Water Valve

#### Utility Survey Linework Features

BT	British Telecom	E	Electrical Service
CATV	Cable TV	EE	Electrical Earth
CCTV	Closed Circuit TV	LV	Electrical - Low Volt
COMMS	Communications	HV	Electrical - High Volt
FOL	Fibre Optic Line	EHV	Electrical - Extra High Volt
FOLD	Fibre Optic Line - Coft	TFL	Electrical - TFL
FOL-E	Fibre Optic Line - Energis	S	Street Lighting
FOL-F	Fibre Optic Line - Fibernet	TCSU	Traffic Control System Unit
FOL-L	Fibre Optic Line - Level 3	G	Gas Service
FOL-M	Fibre Optic Line - Mercury	GLP	Gas Low Pressure
FOLMF	Fibre Optic Line - MFSC	GIP	Gas Intermediate Pressure
FOLT	Fibre Optic Line - Tandel	GMP	Gas Medium Pressure
FOLV	Fibre Optic Line - Virgin	GHP	Gas High Pressure
FOLVF	Fibre Optic Line - Vodafone	GPR-U	GPR - Unknown
FOLVN	Fibre Optic Line - Verizon	ED	Empty Duct
FOLW	Fibre Optic Line - WCOM	GPR	GPR Anomaly
TS	Telecom Service	UA	Unknown Asset
CW	Combined Water	UAPS	UA Passive Sweep
FW	Foul Water	UCL	Unknown Cable
SW	Surface Water	GPR	GPR Site
Water			
FRW	Fire Water		
RM	Rising Main		
WM	Water Main		
WS	Water Service		

### 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

DATUM	Datum Point	E-XXXXXXX	Survey Station
12.24	Photo Point	N-YYYYYYY	Scan Target
12.24	Panoramic Photo Point	E-XXXXXXX	Scan Target
		H-ZZZZZZ	

### Utility Survey Abbreviations

AB	Abandoned	FLO	Flooded	TFR	Taken From Records
BLD	Blocked	IL	Invert Level	UTO	Unable to Open
CL	Cover Level	NT	No Trace	UTS	Unable to Survey
CUT	Disconnect Utility	OE	Overhead Electric	UNK	Unknown
EOG	End of GPR Signal	OT	Overhead Telecom	WL	Water Level
EOT	End of Trace	P	Pilot	XXd	Service Depth - Grid to Top of Service
FOS	Full of Silt	SOF	Soft Level		

### Utility Material Abbreviations

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

### Murphy Geospatial Disclaimer

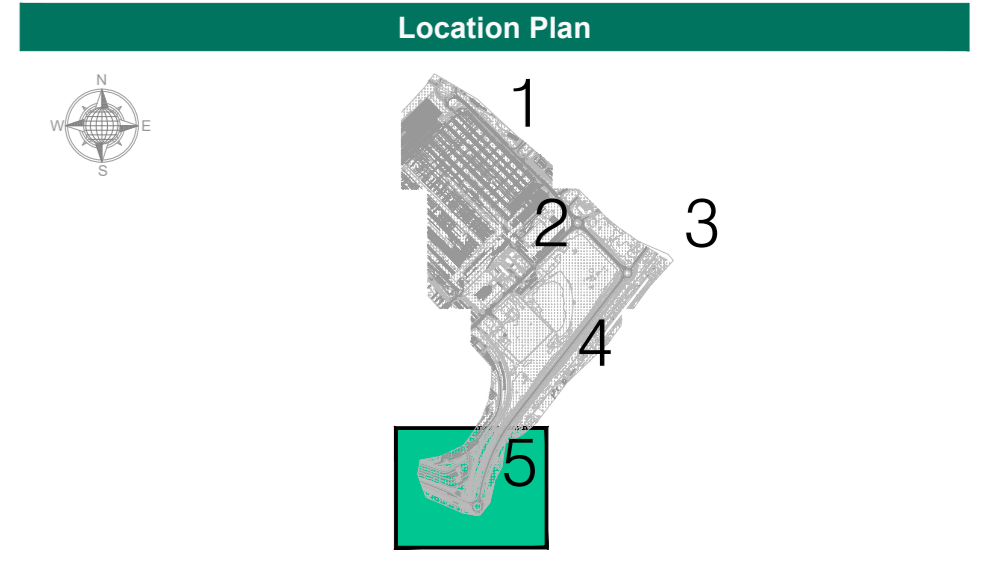
All reasonable endeavours have been used to capture the required data in the survey to the agreed standards of accuracy. Where features have been identified due to a lack of access, the areas will be annotated as 'UTS' (Unable to Survey). The Company shall not be liable for any damages or consequential losses arising from the reliance on survey information beyond its specified scale and accuracy, or survey information used for purposes other than that stated in the Contract of Works.

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Background Topographical Survey provided by client for indicative use only.

Quality Level-D Utility Linework all taken from STATS record documents, as highlighted in 'MGS49340 Utility Desktop Search Report 07'.

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### Revisions

Rev	Description	Surveyed by	Drawn by	Checked by
A	Final Issue	Dt-26/10/22	MGS/Tr-30/1/22	MM-01/12/22



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Client	Wood Group
Project	Green Lithium Refinery
Site Address	Kinkerdale Road Middlesbrough TS6 6UD
Description	Underground Utility Survey(PAS128)
Survey Grid	OSGB36(15) - Scale Factor 1.0
Survey Datum	GNSS - Ordnance Datum Newlyn (ODN)
RICS Band	Band F
Drawing Scale	1:200 @ A0
Drawing Number	MGS49340-U-AII-05