Rev	Amendments	Date	By

NOTES:

1. SITE GRID AND LEVELS ARE BASED UPON ORDNANCE SURVEY VIA THE ACTIVE GPS NETWORK.

Do not scale this drawing
This drawing is copyright

KEY – UTILITY SURVEY

	POWER
	DRAINAGE
	BRITISH TELECOM/COMMS
	GAS
	WATER
	UNKNOWN SERVICE
UTT	UNABLE TO TRACE
UTTF	UNABLE TO TRACE FURTHER
ASR	ASSUMED ROUTE
AOC	AREA OF CONCERN
PIG	PIPE INTO GROUND
UTL	UNABLE TO LIFT
DTS	DEPTH TO SERVICE
B	BLOCKED

KEY – TOPOGRAPHICAL SURVEY

TSB	TRAFFIC SIGNAL BOX
PHB	PHONE BOX
PB	POST BOX SQUARE
PB	POST BOX ROUND
GRILL	GRILL SQUARE
GRILL	GRILL ROUND
BL	BOLLARD
BIN	BIN SQUARE
BIN	BIN ROUND
28.32	SPOT LEVEL
TAR	TARMAC
GR	GRASS
HVS	HARDSTANDING
BL	BOLLARD
BB	BELISHA BEACON
RS	ROAD SIGN
SIGN	SIGN
NP	STREET NAMEPLATE
TS	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONTROLLER
IC	INSPECTION COVER
MH	MANHOLE
MH	MANHOLE
MP	MARKER POST
TP	TELEGRAPH POLE
LC	LIGHTING COLUMN
G	GULLY
WM	WATER METER
SV	SLUICE VALVE
ST	STOP TAP
FH	FIRE HYDRANT
BT	BRITISH TELECOM
CATV	CABLE TV
TV	CABLE TV
GV	GAS VALVE
1.0BR	BRICK WALL
1.0BL	BLOCK WALL
1.0ST	STONE WALL
	HEDGEROW/TREE CANOPY
2.0 P+V	FENCE
DK	DROPPED KERB

UNDERGROUND SERVICES

1) Although every effort has been made to trace underground services using radio detection, no guarantee can be given that all utilities have been found. Due to their non-conductivity it may not have been possible to trace certain types of plastic service pipes. e.g. Gas & Water.
Service trial holes are recommended prior to excavation.
2) In the absence of evidence to the contrary the routes of confirmed manhole connections are assumed to be direct and straight.
3) Underground service information should be read in conjunction with latest statutory drawings.
4) Please note that it is illegal to lift telecommunications covers in public areas. Their routes can be ascertained by contacting the relevant statutory authorities. Any broken or damaged manholes were not lifted by Alpine Land Surveyors Ltd.
5) It is not possible to trace plastic pipes by radio detection e.g. Gas/water, fibre optic cables or pipes of less than 100mm in diameter. The electronic detection of pipework will apply to live metallic pipes/cables that we can induce signal to.
As an alternative GPR techniques can be employed at additional cost in attempt to locate services not detectable by radio detection. All tracing is subject to retrieval of clear signals.
GPR Reflections / Ground Radar
The material surrounding and particularly above buried services can affect whether the service can be located using GPR. Reinforced concrete, buried metallic objects, the presence of moisture, clay and changes in the material construction can lead to poor data resolution.

As we have no information with respect to the material overlaying ANY services the GPR method can only give a guaranteed accuracy of 50%. Depth results using GPR are typically accurate to within 10% with a horizontal accuracy of 150mm.
These figures will vary as the velocity of the ground is assumed at 80m/s. The results of the GPR survey should be treated with caution as there is no guarantee that any service shown actually exists, only a possibility that something can seen on the records.

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CLIENT

AECOM

PROJECT

UTILITY SURVEY
HIGH SCHOOL
COWBRIDGE

Scales 1:100@A0	Date 16.07.20.
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