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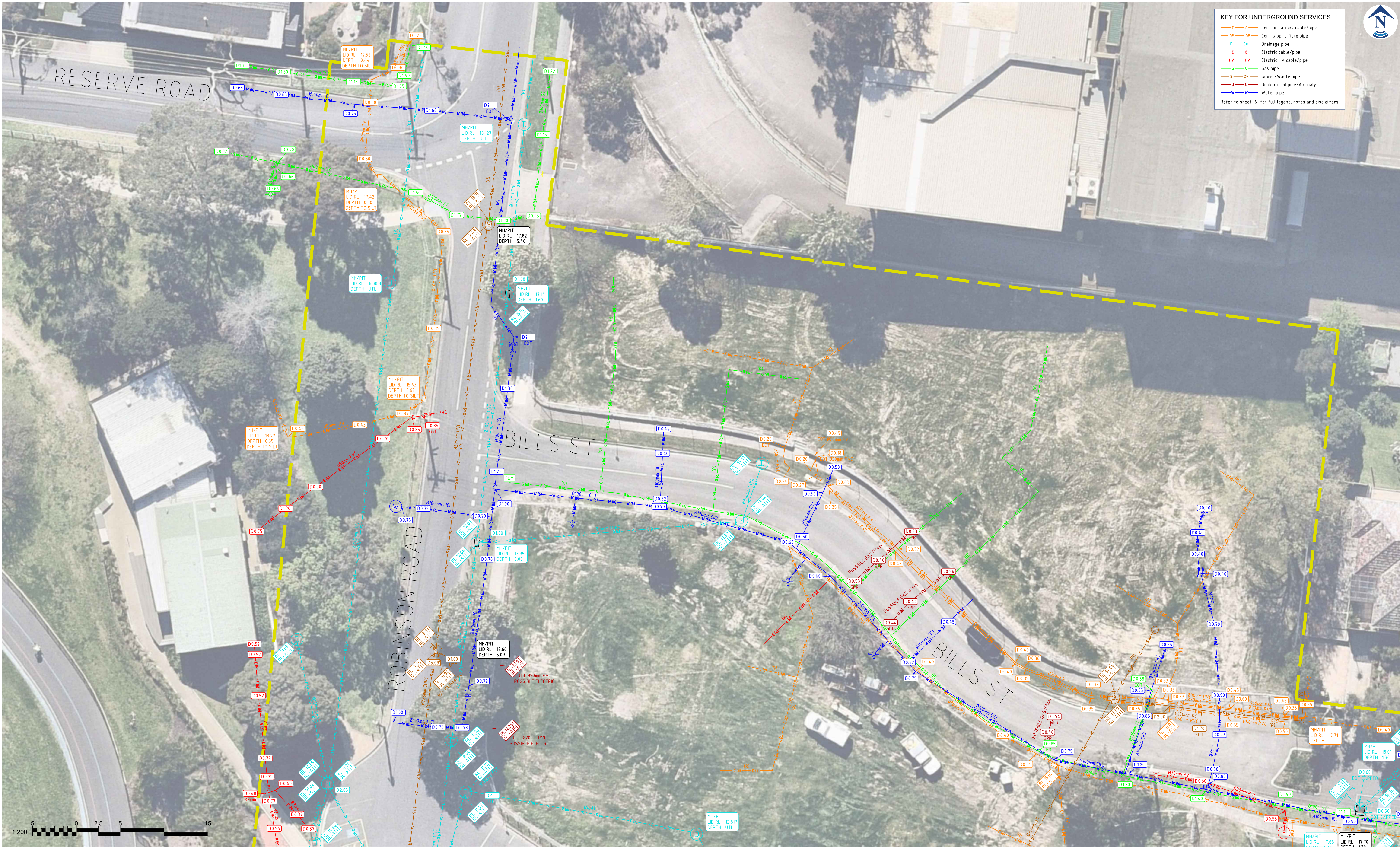
HAYBALL  
UNDERGROUND UTILITY SURVEY  
8 BILLS STREET  
HAWTHORN, VIC

LOCATED: AP/JP	CHECKED: AMM/RS	DATE: 25/03/2021		
SURVEYED: RO/RS	SCALE AT A1: 1:200	DATUM: AHD		
DRAWN: LT/CG	DBYD REF: 20432179	GRID: MGA20 Z55		
STATE/YEAR	JOB No	DRG TYPE	DRG No	REV
VIC20	- 0510	- US	- 01	R1

R1	ADDITIONAL SW AND SEWER INVESTIGATION
REV	REVISION DESCRIPTION

25/03/21	CG	AMM
DATE	DRN	CHK





KEY FOR UNDERGROUND SERVICES

- Communications cable/pipe
- Comms optic fibre pipe
- Drainage pipe
- Electric cable/pipe
- Electric HV cable/pipe
- Gas pipe
- Sewer/Waste pipe
- Unidentified pipe/Anomaly
- Water pipe

Refer to sheet 6 for full legend, notes and disclaimers.

BOROONDARA  
City of Haremsy  
**Received**  
29/6/2021

**Utility MAPPING**

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SHEET 3 OF 6





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REV	REVISION DESCRIPTION	DATE	DRN	CHK



KEY FOR UNDERGROUND SERVICES

C

C

Communications cable/pipe

OF

OF

Comms optic fibre pipe

D

>

Drainage pipe

E

E

Electric cable/pipe

HV

HV

Electric HV cable/pipe

G

G

Gas pipe

S

>

Sewer/Waste pipe

U

U

Unidentified pipe/Anomaly

W

W

Water pipe

Refer to sheet 6 for full legend, notes and disclaimers.



QL-A POTHOLING RESULTS - MGA2020 Z55										
PH/TRENCH NUMBER	EASTING	NORTHING	ELEVATION	DEPTH m	SIZE mm	MATERIAL	QUALITY LEVEL	ASSET OWNER	COMMENT	SURVEY DATE
PH01	327633.441	5810276.822	13.47	1.04	1200	CONCRETE	QL-A	CO BOROONDARA	NDD	23/03/2021
PH02	327634.755	5810277.167	13.47	1.10	1200	CONCRETE	QL-A	CO BOROONDARA		23/03/2021



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VIC20 - 0510 - US - 01 R1					

SHEET 5 OF 6



**SUBSURFACE UTILITY INFORMATION (SUI) AS5488 CLASSIFICATION**  
QUALITY LABELING UTILITY INFORMATION BY A CLASSIFICATION CODE ALLOWS THE USER OF THIS INFORMATION TO UNDERSTAND CLEARLY HOW THE INFORMATION WAS COLLECTED AND THEN PLACE AN APPROPRIATE AMOUNT OF RELIANCE ON IT. PROJECT RISKS RELATED TO UNDERGROUND UTILITIES CAN THEN BE PROPERLY MANAGED.

**QUALITY A:**  
INFORMATION IS THE HIGHEST POSSIBLE LEVEL OF ACCURACY AND IS OBTAINED EXPOSING THE UNDERGROUND UTILITY USING A NON DESTRUCTIVE EXCAVATION (POT HOLING) TECHNIQUE. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OF THE SHALLOWEST PART OF THE LOCATED SERVICE. THE 3D LOCATION IS RECORDED AS AN X,Y,Z COORDINATE. EXPECTED HORIZONTAL AND VERTICAL ACCURACY IS +/-50mm.

**QUALITY B:**  
INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT. THIS IS THE MOST COMMON FORM OF UTILITY LOCATING AND ALTHOUGH AN X,Y, AND Z AXIS CAN BE ESTABLISHED IT IS NOT ALWAYS ENTIRELY ACCURATE DUE TO DIFFERING ELECTROMAGNETIC FIELDS, SOIL CONDITIONS AND MULTIPLE BANKS OF CABLES AFFECTING THE LOCATING SIGNAL. EXPECTED HORIZONTAL ACCURACY IS +/-300mm, VERTICAL ACCURACY +/-500mm.

**QUALITY C:**  
INFORMATION IS COLLECTED BY CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER PLATES OR WATER HYDRANTS AND ACQUIRED DIAL BEFORE YOU DIG PLANS TO DRAW A STRING WHICH SHOWS THE APPROXIMATE POSITION OF SERVICES. THIS METHOD DOES NOT USUALLY SHOW MULTIPLE BANKS OF CABLES AND DOES NOT ALWAYS SHOW THREE DIMENSIONAL INFORMATION. EXPECTED HORIZONTAL ACCURACY (SURFACE FEATURES ONLY) IS +/-300mm.

**QUALITY D:**  
INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION BASED ON EXISTING DIAL BEFORE YOU DIG PLANS OR OTHER RECORDS AND BY MEASURING BOUNDARY OFFSETS ETC. THIS METHOD OF UTILITY LOCATION SHOULD ALWAYS BE TREATED AS AN INDICATION OF THE PRESENCE OF A SERVICE ONLY AND SHOULD NOT BE USED FOR DESIGN. TOLERANCE DOES NOT APPLY TO AN INDICATIVE LOCATION THAT IS ATTRIBUTED TO QUALITY LEVEL D.

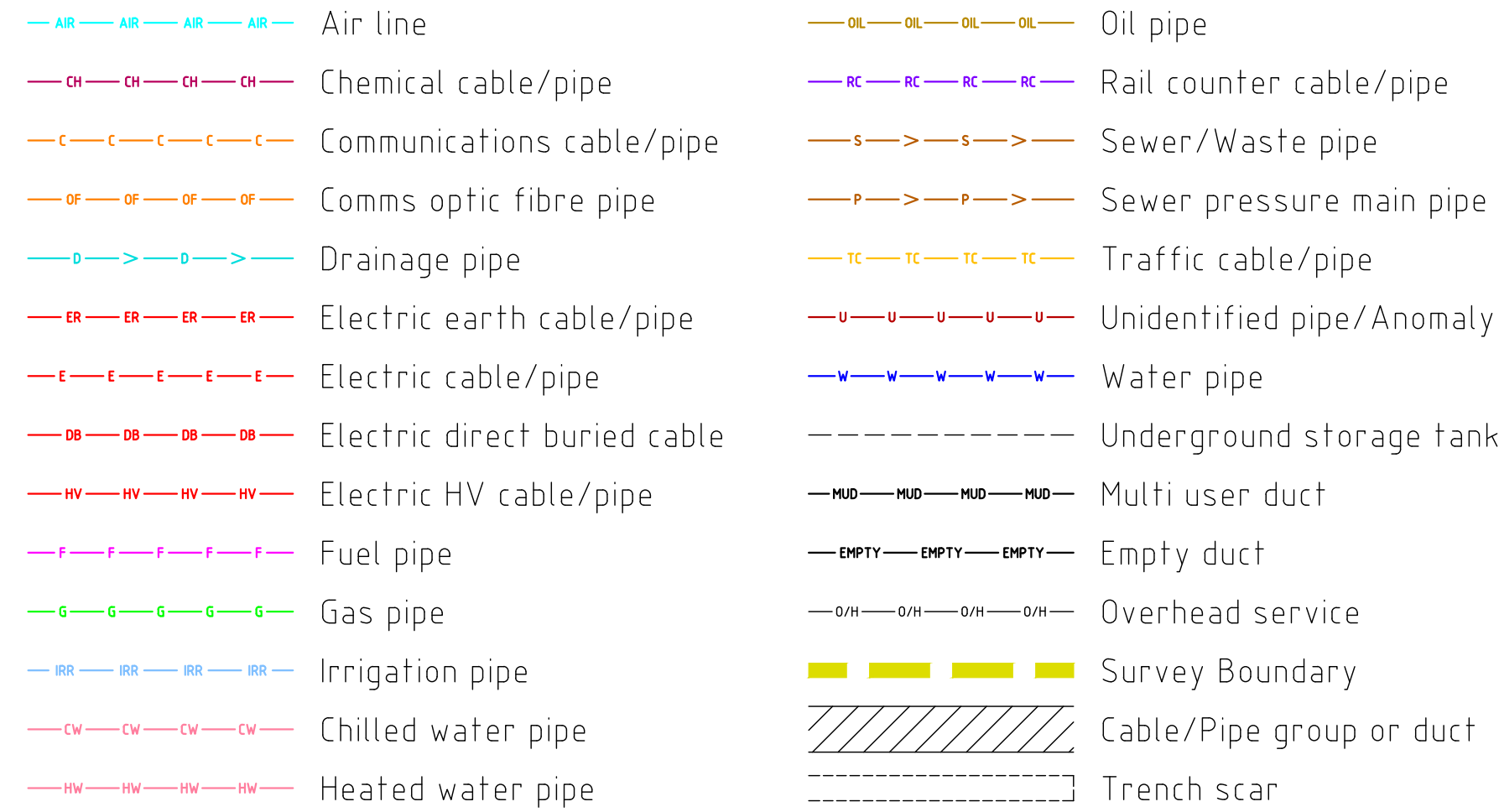
**DETECTION DISCLAIMER:**  
ELECTROMAGNETIC LOCATING TECHNIQUES AS WELL AS GROUND PENETRATING RADAR HAVE BEEN UTILISED IN THE LOCATION OF UNDERGROUND SERVICES. THESE RESULTS ARE NOT INFALLIBLE AND A NON DESTRUCTIVE DIG PROCESS SHOULD BE CARRIED OUT TO CONFIRM SERVICE IDENTIFICATION, POSITIONS AND PARTICULARLY HEIGHTS, WHERE THESE ARE CRITICAL. ALTHOUGH ALL REASONABLE EFFORT HAS BEEN MADE IN LOCATING AND MAPPING THE UNDERGROUND SERVICES, THE COMPLETE EXTENTS OF THE THIS UTILITY SURVEY INFORMATION CANNOT BE GUARANTEED.

**SURVEY TECHNIQUE DISCLAIMER:**  
ALL SURVEY INFORMATION COLLECTED BY UTILITY MAPPING SHOWN ON THIS PLAN HAS BEEN SURVEYED USING GNSS AND TPS SURVEY METHODS. EXPECTED MINIMUM ACCURACY OF GNSS SURVEY DATA IS +/-50mm. ACCURACY IS SUBJECT TO VARIATION DEPENDANT ON SITE CONDITIONS AND SURVEY CONTROL NETWORK SOURCES. AFOREMENTIONED TOLERANCE PROVIDED SHOULD BE USED AS A GUIDE ONLY AND REVIEWED ON A PROJECT BY PROJECT BASIS.

**THIRD PARTY INFORMATION DISCLAIMER:**  
ALL FEATURES SHOWN IN GREY HAVE BEEN TAKEN FROM EXTERNAL SOURCES AND AS SUCH UTILITY MAPPING CANNOT VERIFY THE ACCURACY OF THIS INFORMATION. CONTACTING THE RELEVANT PROVIDER IS RECOMMENDED FOR THE LATEST INFORMATION.

**AERIAL IMAGERY DISCLAIMER:**  
AERIAL IMAGERY HAS BEEN SUPPLIED UNDER A COMMERCIAL LICENCE AGREEMENT AND IS NOT TO BE REPRODUCED FOR ANY OTHER PURPOSES OTHER THAN THAT INTENDED BY UTILITY MAPPING UNDER ANY CIRCUMSTANCE WITHOUT WRITTEN APPROVAL. FEATURES SHOWN ON IMAGERY ARE INDICATIVE ONLY AND MAY NOT REPRESENT THE TRUE AND FINAL POSITION OF FEATURES ON SITE.

KEY FOR UNDERGROUND SERVICES



A

Air pit centre

A

Air valve

CH

Chemical pit centre

CH

Chemical valve

C

Comms main marker

P

Comms pillar

P

Comms pole

C

Comms pit centre

D

Drainage connection

D

Drainage down pipe

D

Drainage pump

D

Drainage pit centre

E

Electric dome

E

Electric earth cover

E

Electric earth spike

E

Electric junction box

E

Electric light

E

Electric light pole

E

Electric main marker

E

Electric power pole

E

Electric pit centre

E

Electric sign centre

AP

Fuel access point

F

Fuel pit centre

F

Fuel valve

G

Gas bottle

G

Gas meter

G

Gas main marker

G

Gas pit centre

G

Gas test point

G

Gas valve

I

Irrigation pit centre

I

Irrigation sprinkler

I

Irrigation valve

M

Mechanical chilled water valve

M

Mechanical hot water valve

ME

Mechanical pit centre

O

Oil pit centre

O

Oil valve

R

Rail junction box

R

Rail light

R

Rail pit centre

RS

Rail signal control box

TS

Rail traffic signal

S

Sewer main marker

S

Sewer connection

S

Sewer flush point

S

Sewer inspection opening

S

Sewer inspection shaft

S

Sewer pit centre

S

Sewer pipe vent

S

Sewer valve

T

Traffic camera

T

Traffic pit centre

T

Traffic signal light

T

Traffic sensor

U

Unknown main marker

U

Unknown pit centre

U

Unknown valve

W

Water bore

W

Water connection

W

Water fire hose

W

Water hydrant

W

Water meter

W

Water main marker

W

Water pump

W

Water pit centre

W

Water tap

W

Water valve

W

Water bore

W

Water connection

W

Water fire hose

W

Water hydrant

W

Water meter

W

Water main marker

W

Water pump

W

Water pit centre

W

Water tap

W

Water valve

W

Water bore

W

Water connection

W

Water fire hose

W

Water hydrant

W

Water meter

W

Water main marker

W

Water pump

W

Water pit centre

W

Water tap

W

Water valve

W

Water bore

W

Water connection

W

Water fire hose

W

Water hydrant

W

Water meter

W

Water main marker

W

Water pump

W

Water pit centre

W

Water tap

W

Water valve

W

Water bore

W

Water connection

W

Water fire hose

W

Water hydrant

W

Water meter

W

Water main marker

W

Water pump

W

Water pit centre

W

Water tap

W

Water valve

W

Water bore

W

Water connection

W

Water fire hose

W

Water hydrant

W

Water meter

W

Water main marker

W

Water pump

W

Water pit centre

W

Water tap







67500N  
12 1-39

DTB  
1-70