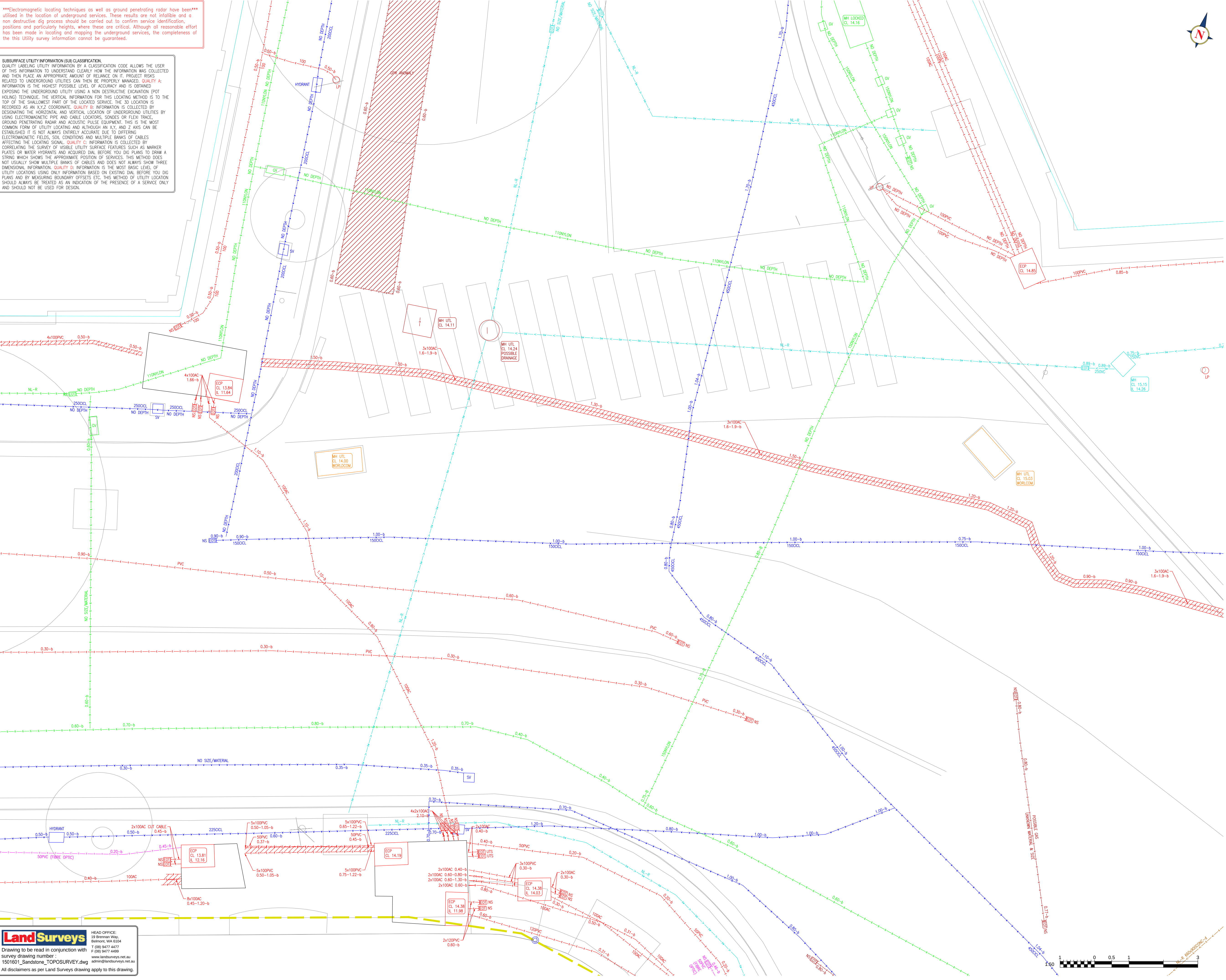


***Electromagnetic locating techniques as well as ground penetrating radar have been**
utilised in the location of underground services. These results are not infallible and a
non destructive dig process should be carried out to confirm service identification,
positions and particularly heights, where these are critical. Although all reasonable effort
has been made in locating and mapping the underground services, the completeness of
the this Utility survey information cannot be guaranteed.

SUBSURFACE UTILITY INFORMATION (SUI) 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. QUALITY B: INFORMATION IS COLLECTED BY
DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY
USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEX TRACES.
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. QUALITY C: INFORMATION IS COLLECTED BY
CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER
PLATES OR WATER HYDRANTS AND ACQUIRED DIA 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. QUALITY D: INFORMATION IS THE MOST BASIC LEVEL OF
UTILITY LOCATIONS BASED ONLY ON INFORMATION ON EXISTING DIA BEFORE YOU DIG
PLANS 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.



Key for underground services

Air line	---
Communications cable	---
Comms optic fibre	---
Electric cable	---
Electric earth cable	---
Electric HV cable	---
Fuel line	---
Gas pipe	---
Irrigation line	---
Chilled water pipe	---
Heated water pipe	---
Oil pipe	---
Sewer/Waste Pipe	---
Sewer Pressure Main	---
Sewer/Waste vent pipe	---
Stormwater/Drainage pipe	---
Telstra cable	---
Traffic cable	---
Unidentified	---
Water pipe	---
Multi User Duct	---
Overhead service	---
Survey Boundary	---
Cable/Pipe banding	---
End of trace	---
End of trench scar	---
Characteristic change	---
Spot Level	---
Where chamber extents are significantly greater than the cover size, their approximate extents are shown thus:	---
Inaccessible areas, shown thus:	---

Abbreviations for underground services

AC Asbestos cement	NL-A Not located - route assumed
ALK Alkaline	NL-I Not located - route plotted
AR Assumed Route	NL-R Not located - route plotted
BD Back drop	NL-T Not located - plotted from records
BH Bore hole	NL-T Not located - plotted from visible trench scar detail
Br Brick	NRV Non return valve
CA Compressed air	NS No signal
CATV Cable tv	o/h Overhead
CCTV Closed circuit television	PE Polyethylene
CH Coal hole	pe Pot ended
CI Cast iron	PR Pipe riser
CL Cover level	PRV Pressure reducing valve
CM Cable marker	PC Polyvinyl chloride
CONC Concrete	PC Rodding eye
CPT Copper	RC Road gully
CU Copper	RS Road sign
CR Cable riser	RWP Rain water pipe
DB Direct buried	S/A Sockaway
DI Ductile iron	SC Stop cock
DTB Depth to base	SE Side entry
ECP Electric cable pit	SI Spun iron
EHV Extra high voltage	SL Soffit level
EB Electric joint box	SP Soil pipe
EP Electricity pole	ST Steel
ER Earthing rod	SV Stop valve
ES Earthing strap	SVP Soil vent pipe
FI Fire hydrant	SW Sink waste
FL Floor level	TCB Telephone call box
Fit Floodlight	TIC Telecom inspection chamber
F/O Fibre optic	T/I Trapped inlet
FP Feeder pillar	T/O Trapped outlet
G Gully	TP Telephone pole
GM Gas meter	UST Underground storage tank
GV Gas valve	UTL Unable to lift
HV High voltage	UTF Unable to find
IC Inspection chamber	UTGA Unable to gain access
IL Invert level	UTR Unable to rod
Kv Kilo volts	UTS Unable to survey
LD Land drain	UTT Unable to trace
LH Lamp hole	VC Verified clay
LP Lamp post	VP Vent pipe
LPG Liquid petroleum gas	WL Water level
LV Low voltage	WM Water meter
MDPE Medium density polyethylene	WO Wash out
MH Manhole	
Mkr Marker post	
NFI No further information	

SUI Class Definition, Quality Level Locates

QUALITY A shown after pipe size or depth in small case -a- 100-a- 0.60-a-
QUALITY B shown after pipe size or depth in small case -b- 100-b- 0.60-b-
QUALITY C shown after pipe size or depth in small case -c- 100-c- 0.60-c-
QUALITY D shown after pipe size or depth in small case -d- 100-d- 0.60-d-

Notes for underground services

I. Where no cover level is available, depths to pipe inverts are shown thus; 0.00
II. Depths of services at inspection chambers, where possible, are shown thus; 0.00
III. Depths obtained electronically are generally to the centre of the service and are shown thus; 0.00
IV. Number of duct ways, where known, shown thus; 2W
V. Pipe sizes, which cannot be obtained by visual survey, are taken from record drawings/marker plates where available.
VI. Cable routes shown as a single line may actually consist of many cables.
VII. Electric cable routes shown are assumed to be LV unless otherwise annotated
VIII. Information taken from records is suffixed thus; (R)
IX. Drainage pipe sizes & invert levels have been determined without man entry into chambers. Every effort has been made to correctly obtain this information, however, accuracy is dependent on visibility from the surface.
X. To assist with clarity of presentation, services and drains have been extended within buildings.

REV	REVISION DESCRIPTION	DATE	SIG	CHK

SHEET 16 OF 21

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Surveyed	SH/CB/AB	Date	15/04/16
Drawn	AMM	Scale at A1	1:50
Checked	SHH	DBYD Ref	VARIOUS

Drawing No.	NSW16-02-01	Rev.	0
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