
INFRASTRUCTURE, DELIVERY, MANAGEMENT AND STAGING PLAN

Project:

**Residential Development
16-20 Carrington Road
Castle Hill NSW 2154**

Prepared for:

ARADA

Prepared By:

Greenarrow Hydraulics Pty Ltd

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Document History

Project: 16-20 Carrington Road, Castle Hill NSW 2154

Infrastructure, Delivery, Management & Staging Plan: INFRA-224-2065_Ver1.

Revision	Author	File Name	Date	Issue
1	MG	INFRA-224-2065 Ver1	01 May 2026	Draft



greenarrow hydraulics pty ltd engineering consultants www.greenarrow.net.au

Wollongong
PO Box 590, Wollongong, NSW 2520
tel: (02) 4226 4490 e: admin@greenarrow.net.au

1.0 EXECUTIVE SUMMARY

The aim of this report is to provide an outline of the Infrastructure Delivery, Management and Staging Plan considered for this project.

In particular this report also aims to satisfy the requirements as outlined in the NSW Department of Planning and Environment Planning Secretary's Environmental Assessment Requirements for in-fill affordable housing, in particular Item 21. Infrastructure Requirements and Utilities.

The purpose of this report is to provide the existing services of the public assets prior the work on the proposed development. This report provides a referral service to access vital plans and information, including telecommunications companies, who have registered their underground infrastructure assets

2.0 INTRODUCTION

2.1 BRIEF

Greenarrow Hydraulics Pty Ltd (GAH) have been engaged by ARADA to prepare an Infrastructure Delivery, Management and Staging Report in support of a Development Application for the proposed development at 16-20 Carrington Road, Castle Hill.

The following tasks were carried out to enable the completion of this report: -

- Applying for the Dial Before You Dig NSW; and
- This report was compiled to describe the existing services around the subject site.

2.2 AIMS

In consultation with relevant service providers this report will:

- Assess the impacts of the development on existing utility infrastructure and service provider assets surrounding the site.
- Identify any infrastructure required on-site and off-site to facilitate the development and any arrangements to ensure that the upgrades will be implemented on time and be maintained.
- Provide an infrastructure delivery and staging plan, including a description of how infrastructure requirements would be co-ordinated, funded and delivered to facilitate the development.

2.3 REFERENCE DOCUMENTS

This assessment has been based on consultation with the following infrastructure authorities:

- Ausgrid
- Jemena
- Metro Trains Sydney
- NBN Co
- Nextgen
- Optus and/or Uecomm
- Sydney Water
- Telstra NSW Central
- TPG Telecom
- Hills Shire Council

2.4 THE DEVELOPMENT

2.4.1 Site Location

The proposed development is located at 16-20 Carrington Road, 2-12 Middleton Avenue, 4-6 Fishburn Crescent and 25-31 Sexton Avenue Castle Hill legally described as DP247890, refer to Figure 2.1 Site Location below. The site is located within the Local Government Area (LGA) of the Hills Shire Council.

The total site area is 1.41ha, bounded by Carrington Road to the North, Fishburn Crescent to the South, Middleton Avenue to the West and adjoining properties, Sexton Avenue to the East. The site is currently occupied by residential buildings.



Figure 2.1 Site Location (Image courtesy of SIX Maps)

2.4.2 Proposed Development

The proposed development seeks approval to construct a residential development.

Specifically, this SSDA seeks approval for:

- Site preparation works including demolition of existing structures on the site, tree and vegetation clearing, and bulk earthworks;
- Construction of a residential development ;
- Vehicular access from Fishburn Crescent;
- Services and infrastructure improvements as required.

3.0 GLOSSARY

This section of the report lists all the public assets within the surrounding streets to the site and the delivery route supported with Before You Dig Australia maps and legend.

The referral service is available to anyone across Australia and should be the first point of contact when starting any project that involves digging at any depth.

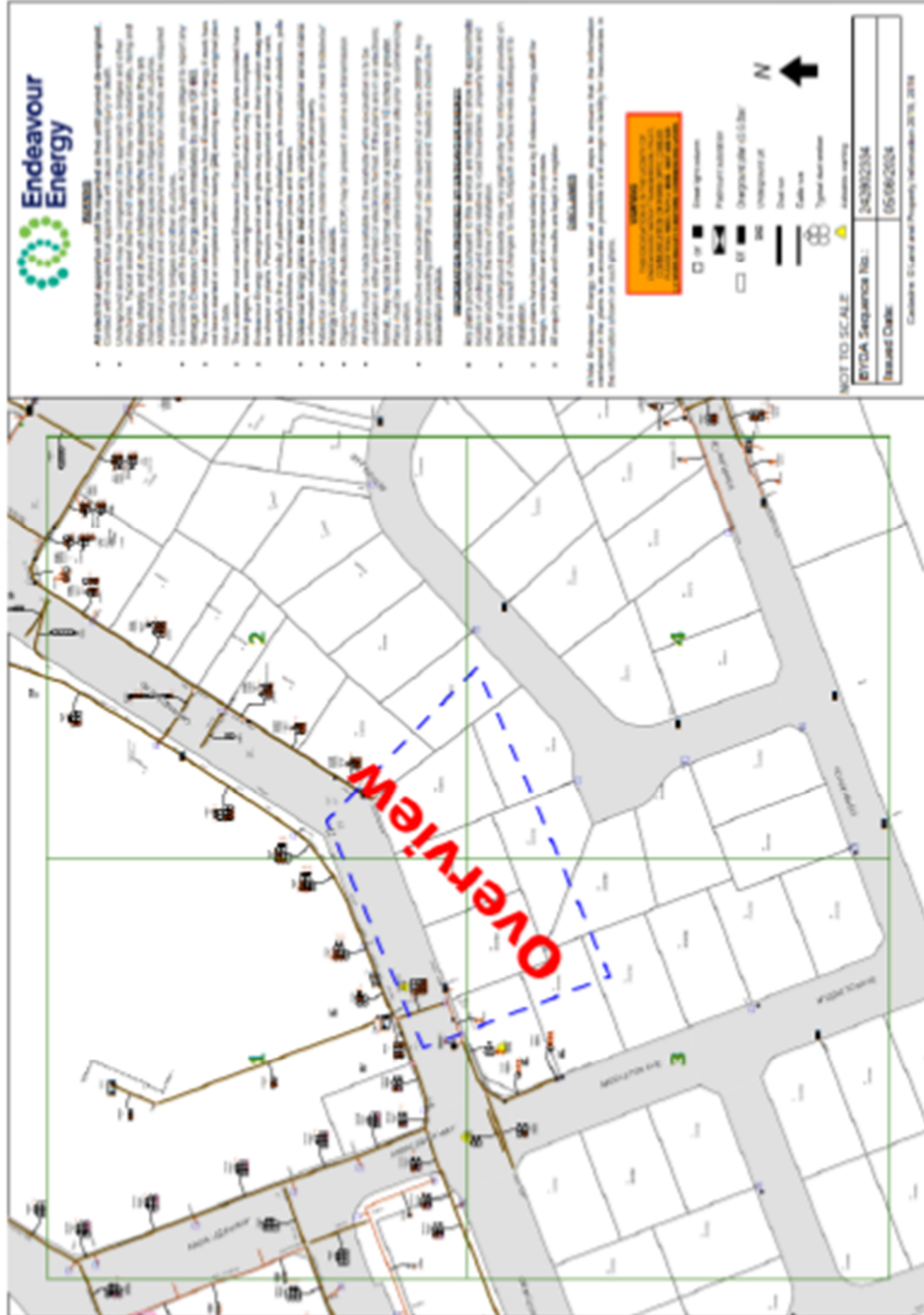
BYDA's service allows members to share detailed plans and safety information with users, including individuals or companies, planning to dig underground. BYDA's service is vital to protect essential underground infrastructure assets, and to prevent harm or injury to those working in and around those assets.

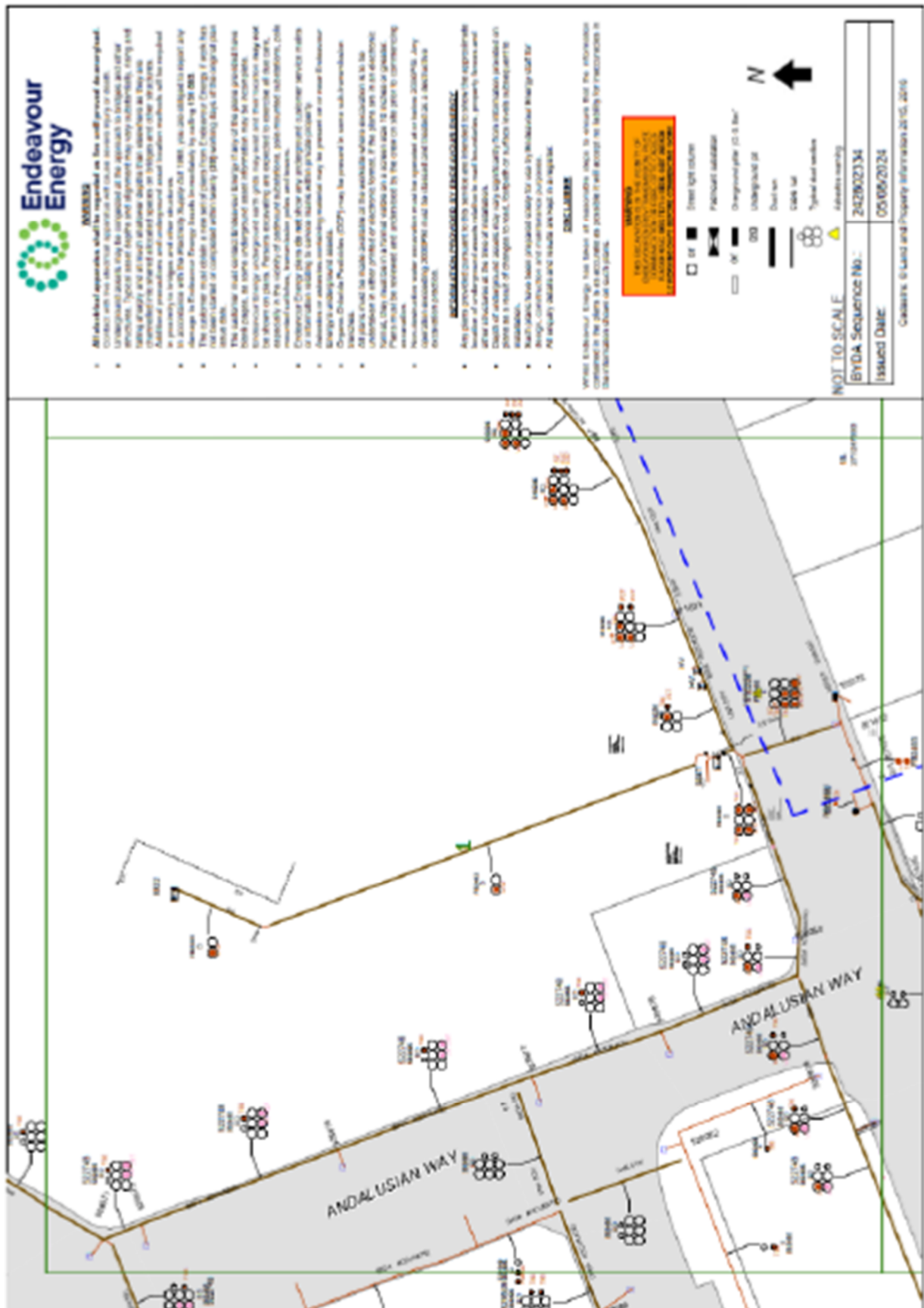
Once an enquiry is submitted using the online portal, details including the location, date and type of work being carried out are sent to all infrastructure owners with registered underground assets in the vicinity of the proposed project. The underground asset owners respond directly to the enquirer with information on the location of underground infrastructure assets that have the potential to be impacted by proposed work.

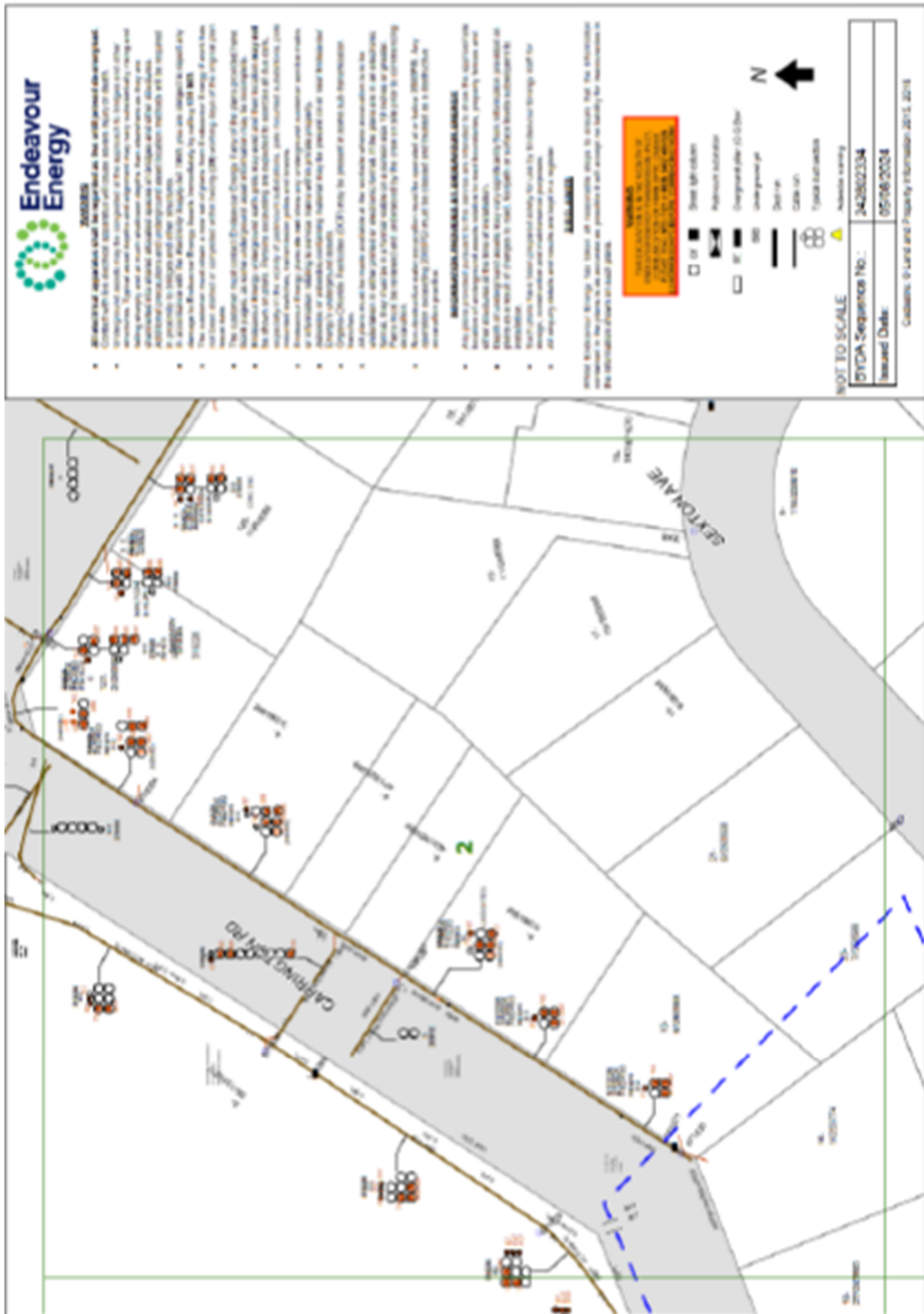
4.0 AUTHORITY INFRASTRUCTURE ASSESSMENT

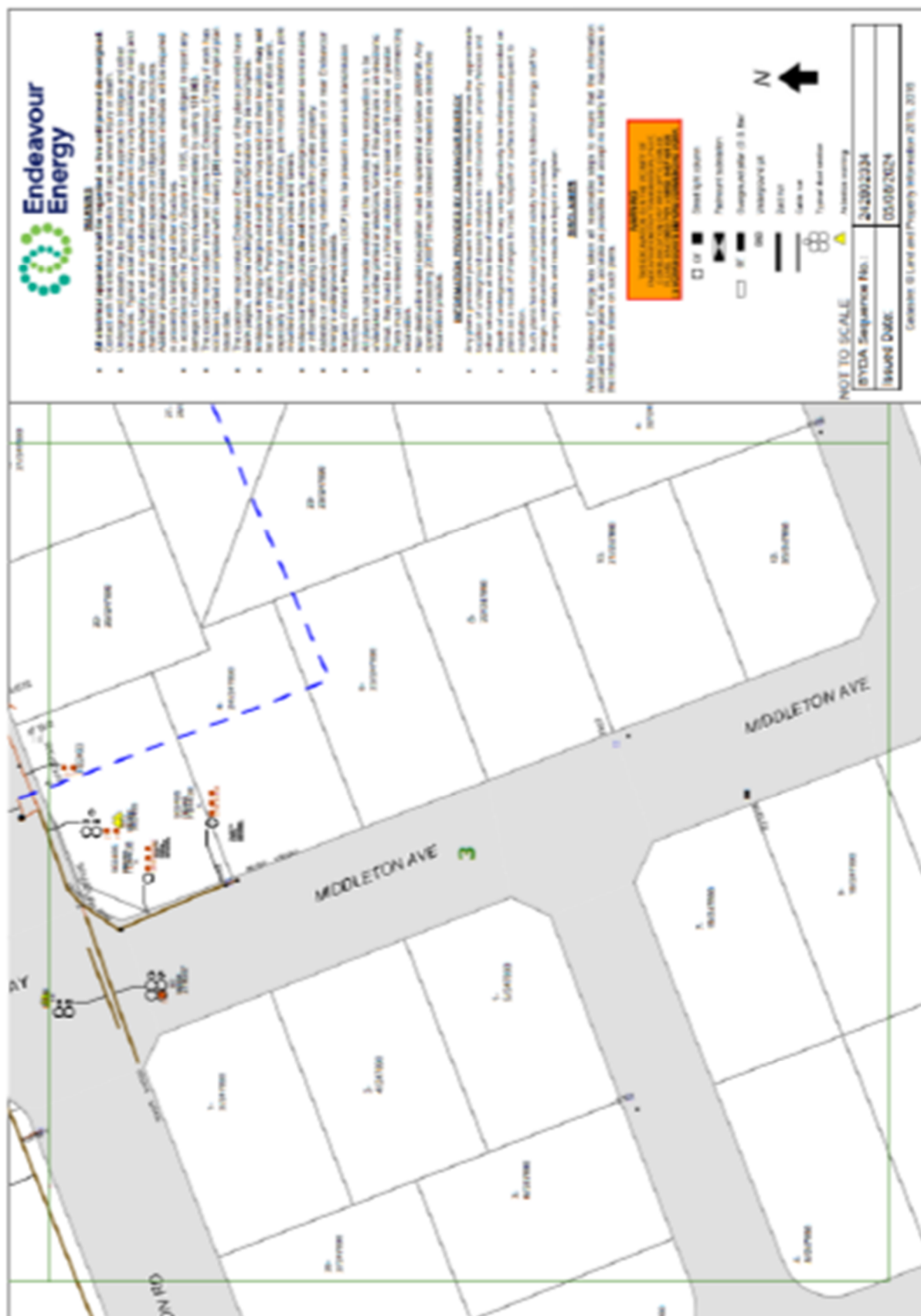
4.1 ENDEAVOUR ENERGY

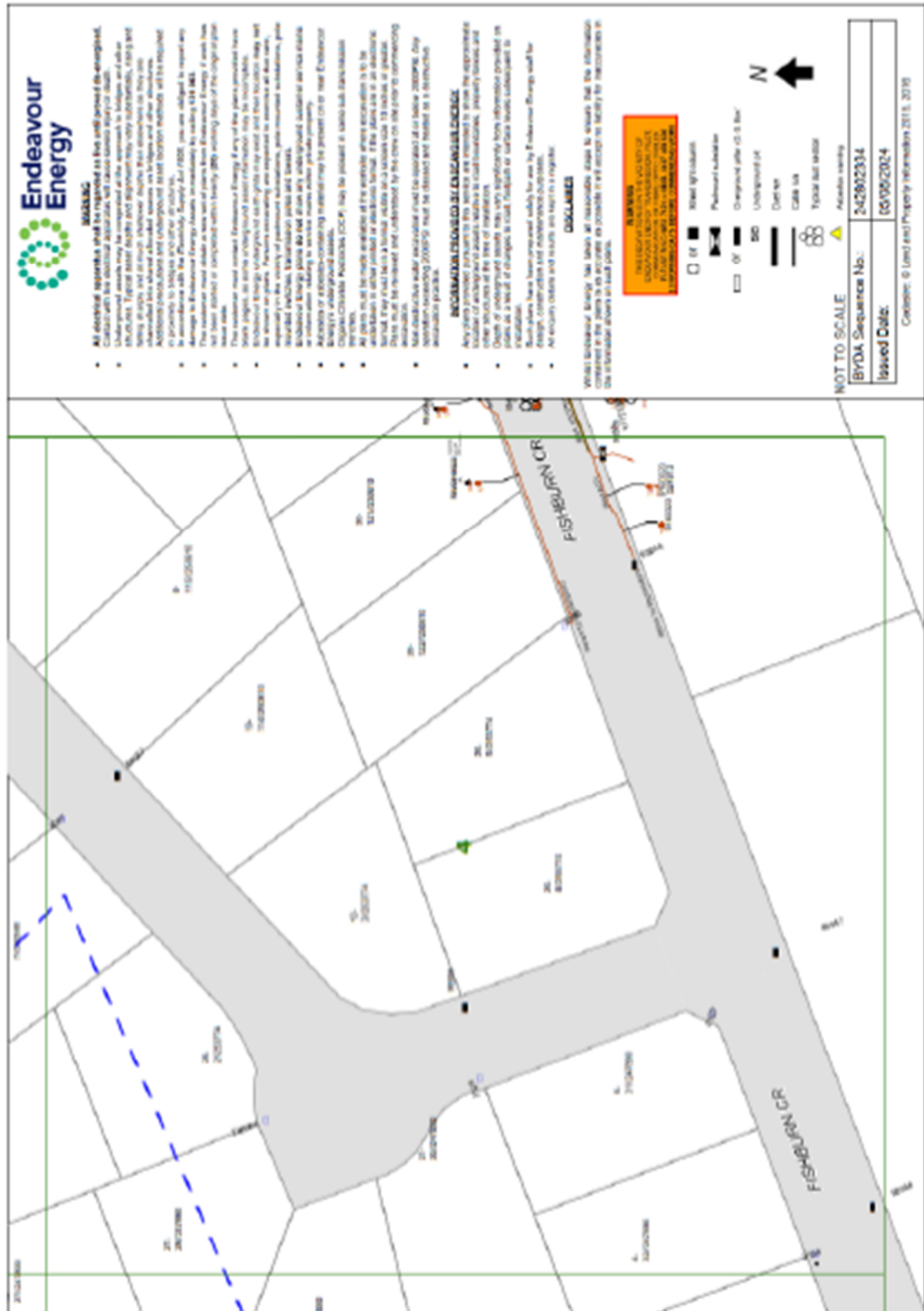
Figure 4.1.1 Endeavour Energy Plan











If further clarification is required, please contact:
Endeavour Energy
Phone: (02) 9853 4151 (8.00am-4.30pm Mon-Fri)
Emergency Phone Number: 131 003



WARNING

**This excavation is in the vicinity of Endeavour Energy's
Transmission, Pilot, Communication or Fibre Optic
Cables**

Please Notify

ENDEAVOUR ENERGY

**Between 7:00am – 2:00pm
on
02 9853 7121 or 0407 468 626
Transmission Mains North**

**Minimum 10 WORKING Days before commencing
excavation**

Table 4.1 Endeavour Energy Assessment

Element	Assessment
Authority	Endeavour Energy
Impact to Development	Existing infrastructure is located on site within the proposed development footprint.
Action to Existing	Existing infrastructure is to be modified to be used as temporary site power and non-utilised services are to be made redundant.
Proposed Upgrades	It proposed new install new kiosk/surface chamber substation subject to maximum demand calculations.

4.2 JEMENA

Figure 4.2.1 Jemena Plan

Jemena Gas Network Protection

Jemena Asset Management Pty Ltd ABN 53 000 613 401
for and on behalf of Jemena Gas Networks (NSW) Ltd ABN 87 003 904 322



ASSETS AFFECTED

This information is only valid for 28 days from the date of issue

Please note that there are Gas Mains or Services in the vicinity of your intended work, as generally illustrated on the attached map. There may also be other mains or services at the location. For an explanation of the map, please see the legend attachment and read the important information below.

Please note that you have duty of care to ensure that Jemena's assets are not compromised or damaged during any digging, future development or construction work.

Excavation Guidelines:
It is essential that the location of gas pipes are confirmed by carefully pot-holing by hand excavation prior to proceeding with mechanical excavation in the vicinity of gas pipes. If you cannot locate the pipe, contact the local depot.

Important Information:

1. The enclosed plans have been prepared solely for the use of Jemena Gas Networks (NSW) Ltd and Jemena Asset Management Pty Ltd (together "Jemena") and show the position of Jemena's underground gas mains and installations in public gazetted roads. If the enclosed plans show gas assets located on private property or other third party property, these are approximate locations.
2. There may be underground assets owned by other utilities in the vicinity of your work and it is your responsibility to identify and locate such assets.
3. The plans may show the position of underground mains and installations relative to fences, buildings and other structures as they existed at the time the assets were installed and may not have been updated to take account of any subsequent change in the location or style of those features. Depth of underground assets may also vary as a result of changes to road, footpath or surface levels subsequent to installation.
4. While Jemena takes all reasonable care to ensure the accuracy and completeness of the information provided, it makes no warranty as to the accuracy or completeness of the enclosed plans and does not assume any duty of care to you nor any responsibility for the accuracy, adequacy, suitability or completeness of the plans or for any error or omission. It is intended to be indicative only and must not be solely relied upon when undertaking underground works.
5. Except to the extent that liability may not be capable of being lawfully excluded, Jemena, its employees, agents, officers and contractors will not be liable to any person for loss or damage (including indirect and consequential loss or damage) which may be suffered or incurred in connection with the provision of this information.
6. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to Jemena's underground mains, service lines and equipment. In accordance with the *Work Near Underground Assets – Guide* published in 2007 by Work Cover Authority*, Jemena recommends that you carry out potholing by hand to accurately confirm the location of gas mains and installation prior to commencing excavations.

Jemena BYDA Administration: 1300 990 908 *Guide available via: www.safeworks.nsw.gov.au

In case of Emergency Phone 131 909 (24 hours)

Jemena Gas Networks

Before You Dig Australia Map Legend
Feb 2024



Network Mains

	Proposed New Main (coloured as per kPa)
	Proposed Isobrite (coloured as per kPa)
	Unknown kPa
	2kPa Low Pressure gas main
	7kPa Low Pressure gas main
	30kPa Medium pressure gas main
	100kPa Medium Pressure gas main
	210kPa Medium Pressure gas main
	300kPa Medium Pressure gas main
	400kPa Medium Pressure gas main
	1050kPa High Pressure gas main
	3500kPa High Pressure gas main
	7000kPa high Pressure gas main
	>7000kPa Transmission pipeline
	Isolated Service - Former Med/High Pressure
	Isolated Steel Main - Treat as High Pressure
	Conduit or Casing Size & Material (see conduit material codes)
	CRITICAL MAIN - Treat as High Pressure (Main coloured as per kPa)
	Exposed Main section
	Shallow Main section: see Protection Code below, no code assume no protection
	SP Steel Plate CE Concrete Encased PP PE Pipe LNK Unknown Type CS Concrete Slab
	Warning - Blue Jacket Coated gas main (Main coloured and styled as per kPa)

Gas Services

	Gas service – coloured by kPa
	Serviced Site Indicator
Jemena has modelled service pipe features programmatically based on known pipe characteristics and cartographic principles. They may provide guidance to identify assets whilst in the field in addition to existing processes.	

Network Assets

	Siphon
	Network Valve
	High Pressure Main Line Valve (≥ 1050 kPa)
	High Pressure Automatic Line Break Valve (~ 1050 kPa)
	Boundary Regulator Set (~ 1050 kPa)
	Distribution Regulator Set (≤ 1050 kPa)
	High Pressure Regulating Station (> 1050 kPa)

Annotations

Pipe and Conduit Material Codes

NY	Nylon	NS	Nominal Bore – Cast Iron
PE	Polyethylene	ST	Steel
P/PL	Plastic (unclined)	C/CU	Copper
PVC	Polyvinyl Chloride		

Pipe code combinations and dimension references

	50MM NY	50mm Nylon main inserted into 6 inch (Nominal Size) Cast Iron pipe
	32MM NY	32mm Nylon main inserted into 50mm Steel pipe

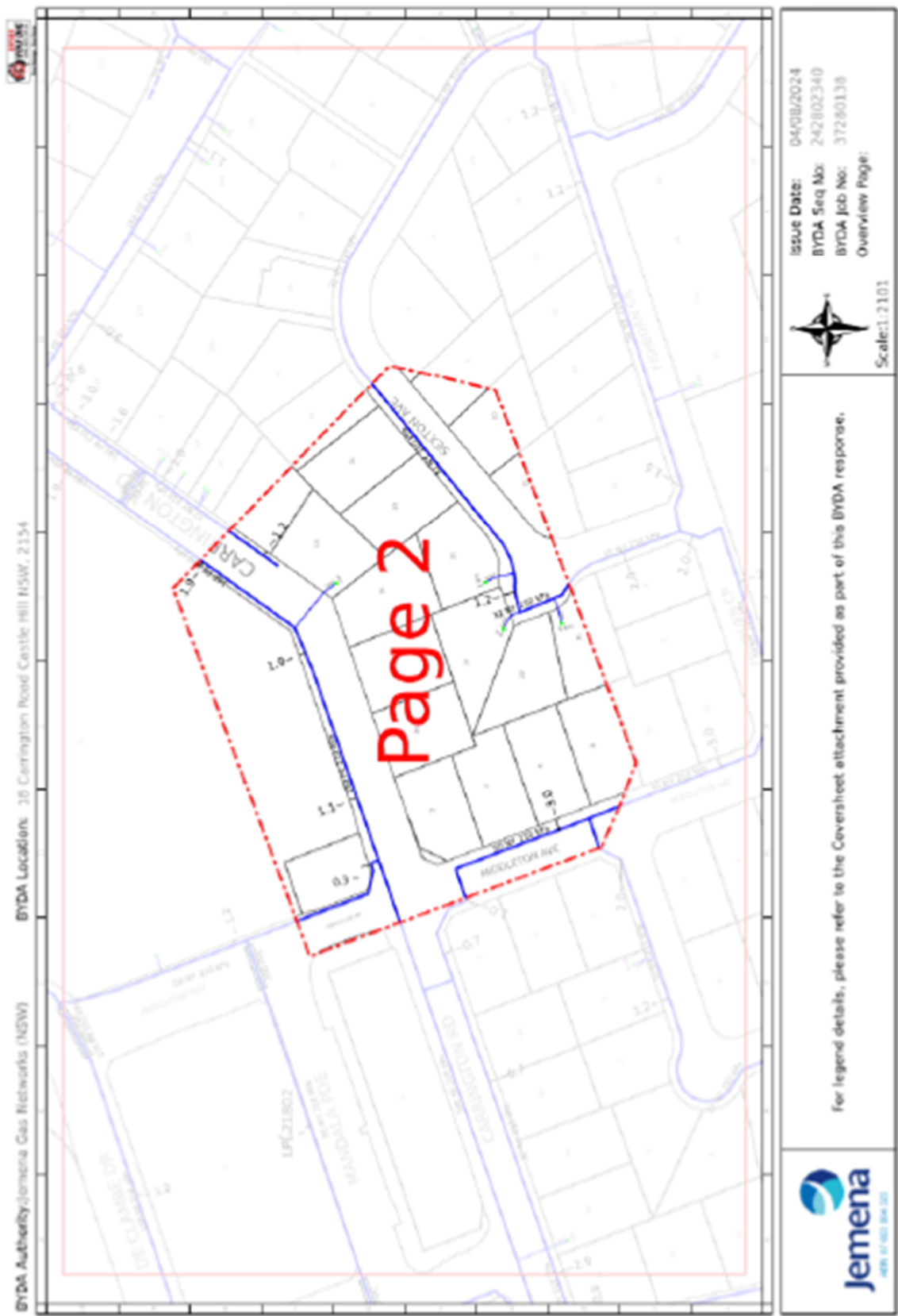
~ 1.5	Distance (in metres) of main from Boundary Line (MRL)
MSK	Distance in Metres Back of Kerb
MCL	Distance in Metres from Kerb Line
MSBL	Distance in Metres from Eastern Boundary Line (North/SouthWest)
MCL	Distance in Metres from Centre Line of Road
MFL	Distance in Metres from Fence Line



Distance (in metres) of service from side boundary where the service pipe crosses from the road reserve into the private lot
Service placed towards left or right boundary
Service pipe size & material where known



For connected sites with insufficient asset details, service is shown down the centre of the lot with no attributes plotted



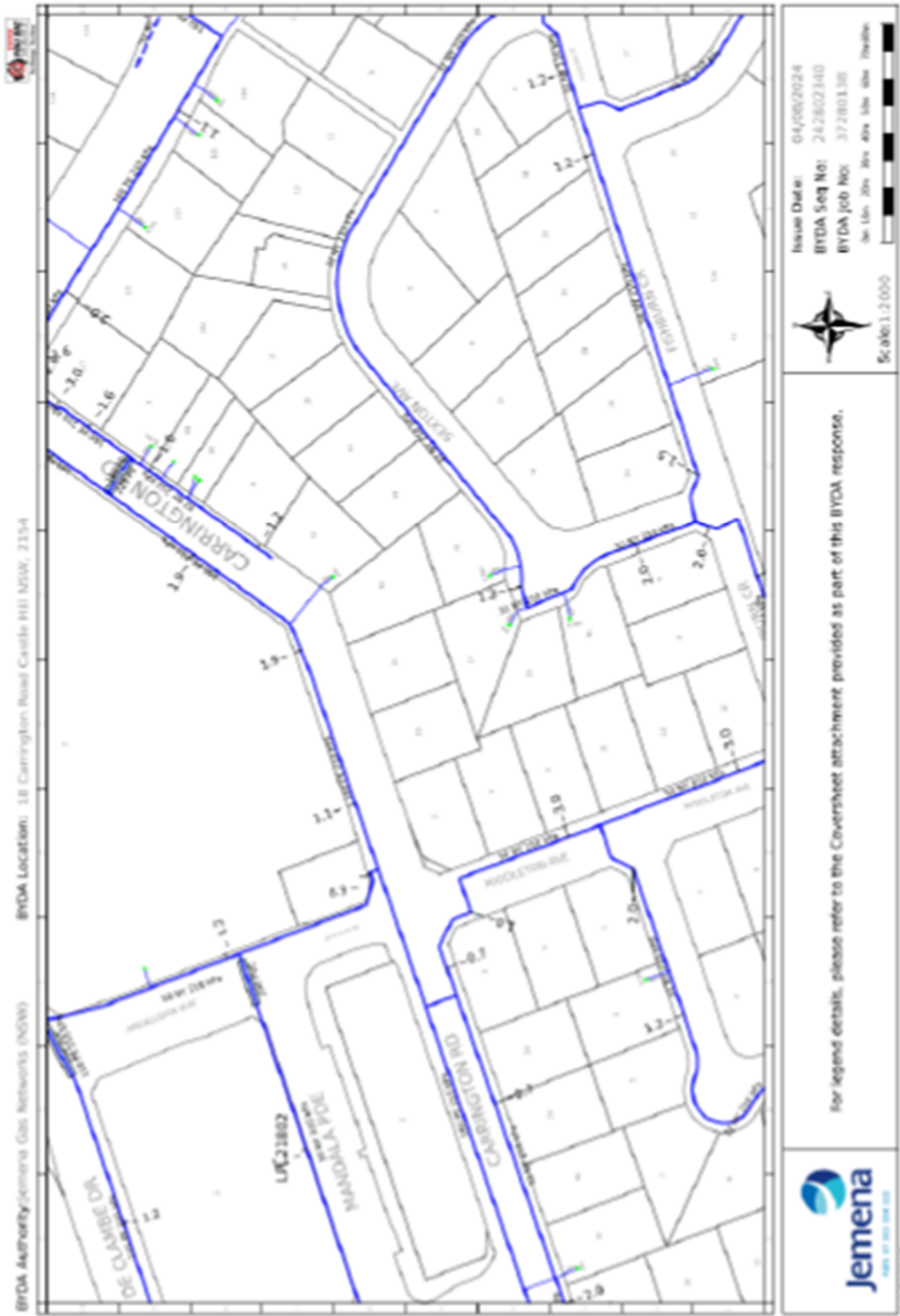


Table 4.2 Jemena Assessment

Element	Assessment
Authority	Jemena
Impact to Development	Existing infrastructure is located on site within the proposed development footprint
Action to Existing	Existing house services are proposed to redundant and removed.
Proposed Upgrades	Natural gas is not proposed to be used with a preference of electrification therefore upgrades are not proposed.

4.3 NBN Co

Figure 4.3 NBN Co Plan



Emergency Contacts

You must immediately report any damage to the nbn™ network that you are/become aware of. Notification may be by telephone - 1800 626 329.

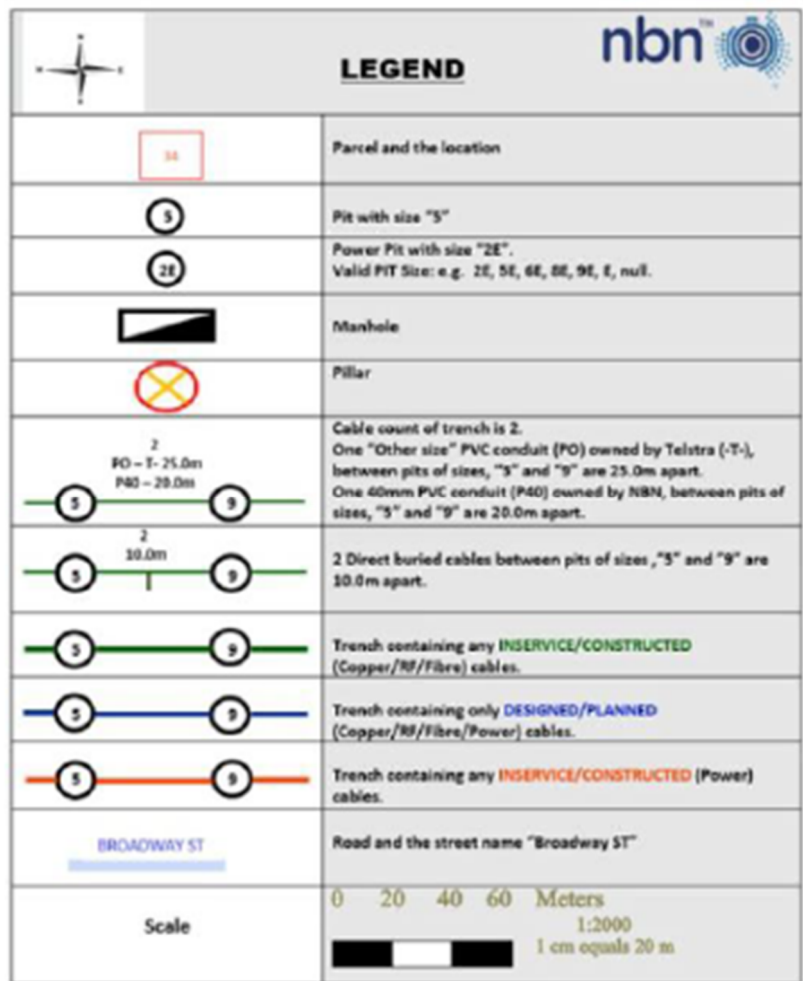


Table 4.3 NBN Co Assessment

Element	Assessment
Authority	NBN Co
Impact to Development	Nil
Action to Existing	Nil
Proposed Upgrades	It is proposed to install new incoming carrier cabling to service the proposed development.







ABS	Acrylonitrile Butadiene Styrene	AC	Asbestos Cement
BRICK	Brick	CI	Cast Iron
CICL	Cast Iron Cement Lined	CONC	Concrete
COPPER	Copper	DI	Ductile Iron
DICL	Ductile Iron Cement (mortar) Lined	DIPL	Ductile Iron Polymeric Lined
EW	Earthenware	FIBG	Fibreglass
FL BAR	Forged Locking Bar	GI	Galvanised Iron
GRP	Glass Reinforced Plastics	HDPE	High Density Polyethylene
MS	Mild Steel	MSCL	Mild Steel Cement Lined
PE	Polyethylene	PC	Polymer Concrete
PP	Polypropylene	PVC	Polyvinylchloride
PVC - M	Polyvinylchloride, Modified	PVC - O	Polyvinylchloride, Oriented
PVC - U	Polyvinylchloride, Unplasticised	RC	Reinforced Concrete
RC-PL	Reinforced Concrete Plastic Lined	S	Steel
SCL	Steel Cement (mortar) Lined	SCL IBL	Steel Cement Lined Internal Bitumen
SGW	Salt Glazed Ware	SPL	Steel Polymeric Lined
SS	Stainless Steel	STONE	Stone
VC	Vitrified Clay	WI	Wrought Iron
WS	Woodstave		

In an emergency, or to notify Sydney Water of damage or threats to its structures, call 13 20 90 (24 hours, 7 days)

Further information and guidance is available in the "Plumbing, building and developing" section of Sydney Water's website at www.sydneypwater.com.au, where you will find the following under 'Before You Dig':

- Essential references
 - o Avoid Damaging Water and Sewer Pipelines
 - o Important Information about Before You Dig
 - o Technical guidelines: Building over and adjacent to pipe assets
- See Also
 - o Building over or next to assets, section of Sydney Water's website at www.sydneypwater.com.au

Or call 13 20 92 for Customer Enquiries.

Note: The lodging of enquiries via www.byda.com.au will enable you to receive, via email, colour plans in PDF format 24 hours a day, 7 days a week.

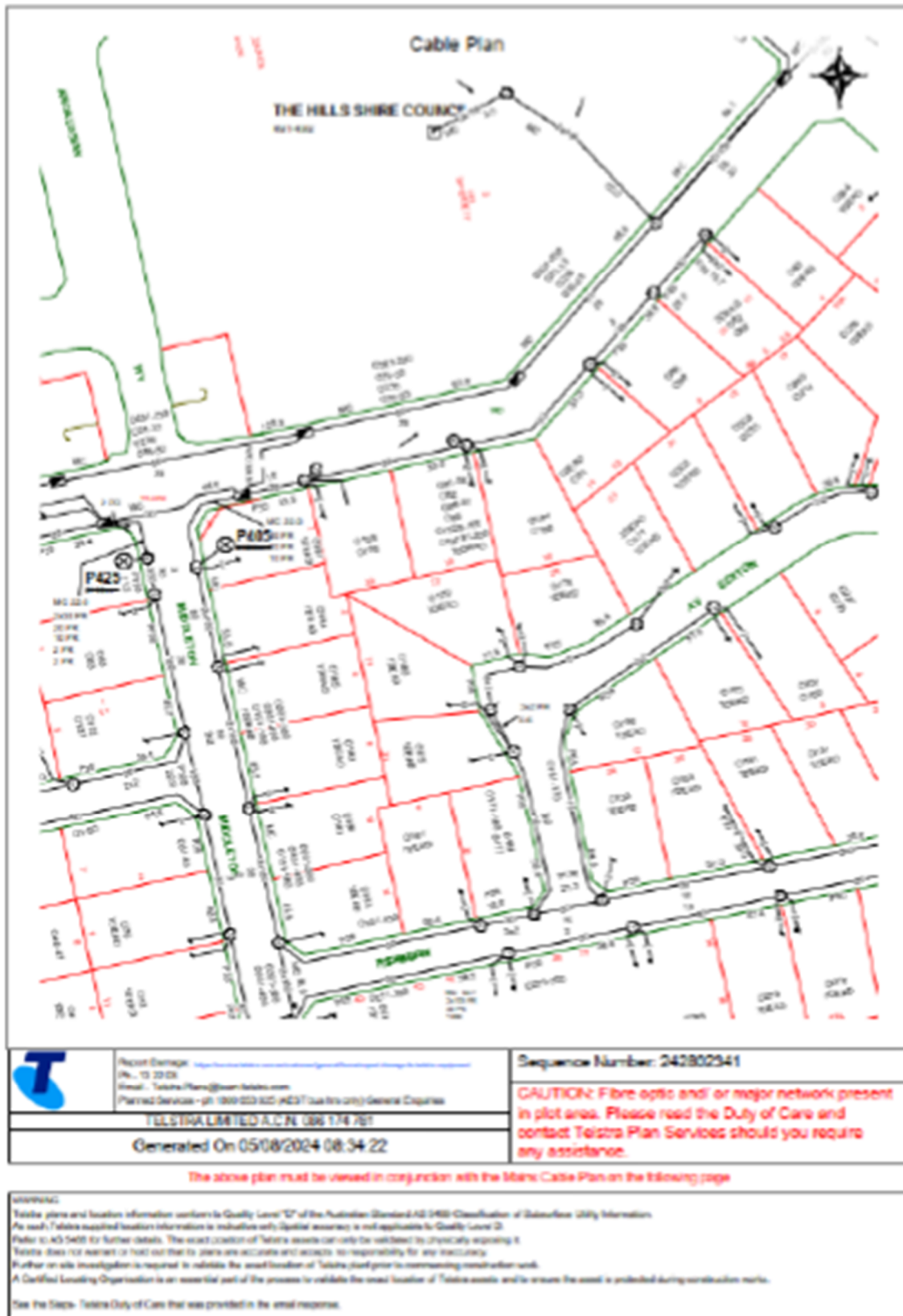
This communication is confidential. If you are not the intended recipient, please destroy all copies immediately. Sydney Water Corporation prohibits unauthorised copying or distribution of this communication.

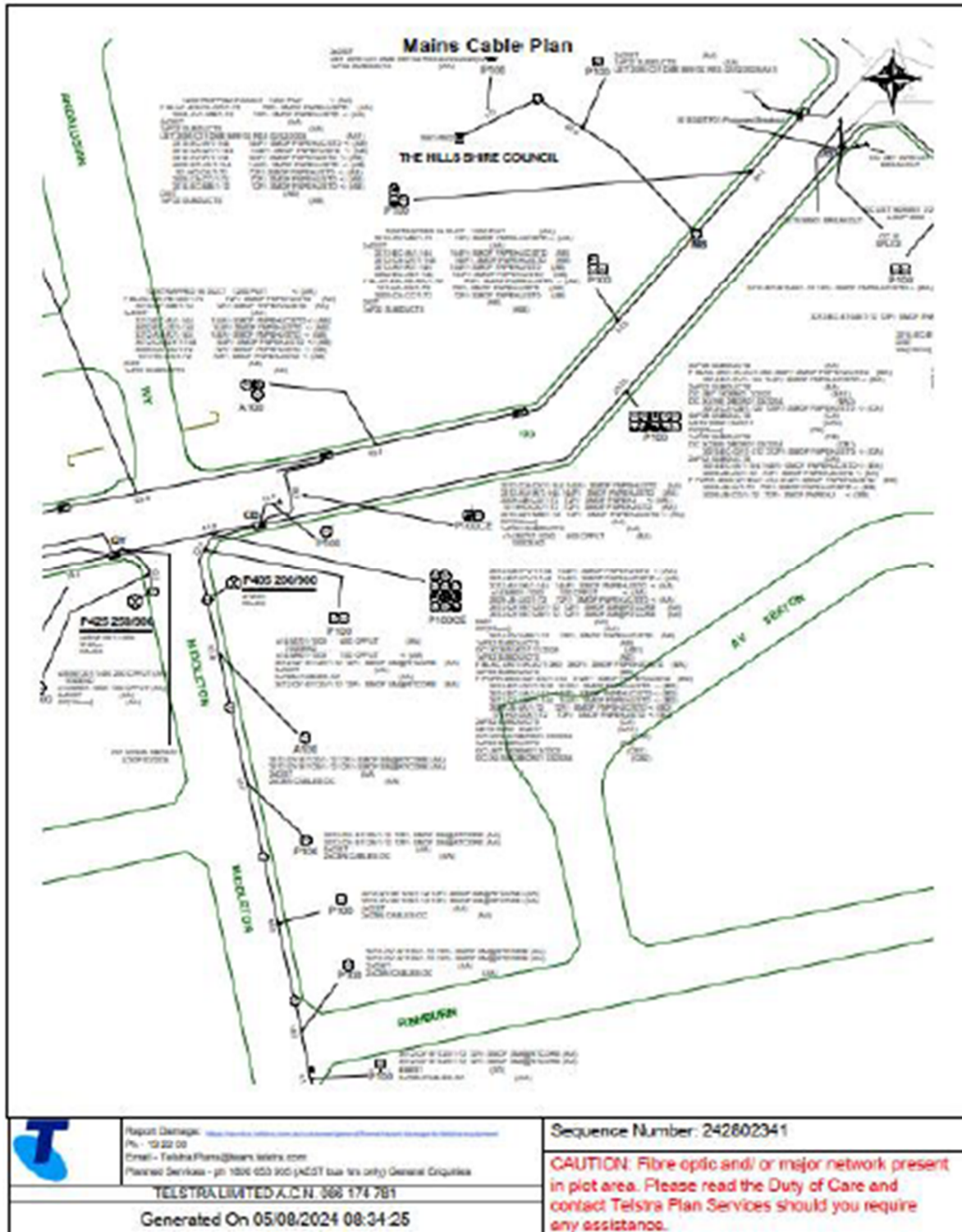
Table 4.4 Sydney Water Assessment

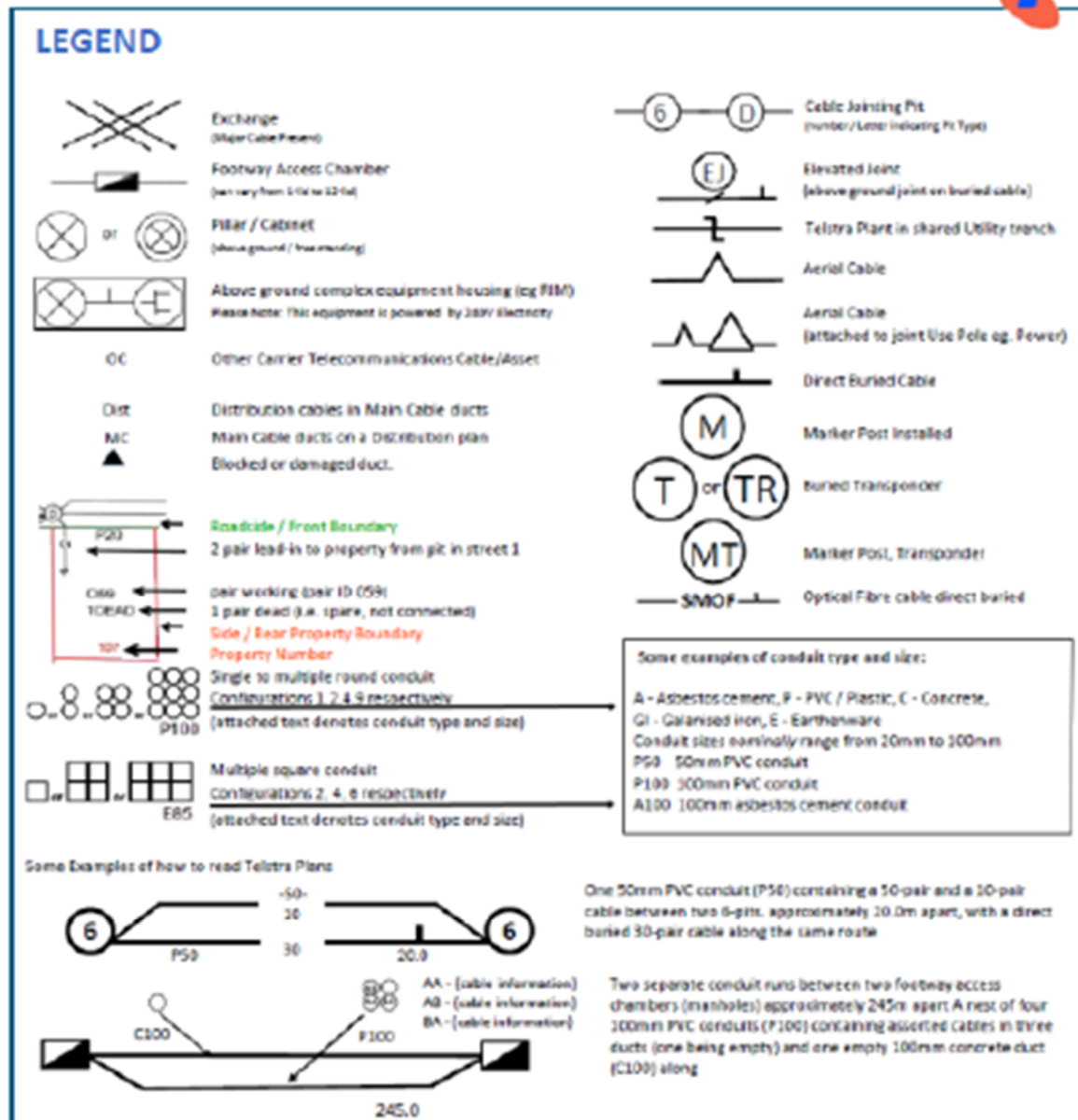
Element	Assessment
Authority	Sydney Water
Impact to Development	Existing sewer drainage currently traverses the site and impacts the building footprint.
Action to Existing	It is proposed to disuse the existing sewer within the site boundary.
Proposed Upgrades	It is proposed to augment the existing water main in Day Street to service the proposed development subject to the Sydney Water Section 73 application.

4.5 TELSTRA

Figure 4.5 Telstra Plan







Protect our Network:

by maintaining the following distances from our assets:

- 1.0m Mechanical Excavators, Farm Ploughing, Tree Removal
- 500mm Vibrating Plate or Wacker Packer Compactor
- 600mm Heavy Vehicle Traffic (over 3 tonnes) not to be driven across Telstra ducts or plant.
- 1.0m Jackhammers/Pneumatic Breakers
- 2.0m Boring Equipment (In-line, horizontal and vertical)

For more info contact a [Certified Locating Organisation](#) or Telstra Plan Services 1800 653 935

Table 4.5 Telstra Assessment

Element	Assessment
Authority	Telstra
Impact to Development	Existing communications reticulation currently traverses the site and impacts the building footprint.
Action to Existing	It is proposed to disuse all existing services within site. Back to pit.
Proposed Upgrades	It is proposed to install new incoming carrier cabling to service the proposed development.

4.6 OPTUS

Figure 4.6 Optus Plan



OPTUS



Optus Contract Management Team
Unit 9, 577 Springvale Road
Mulgrave, Victoria, 3178

Date: 05 Aug 2024
To: Sam Haddad
Company: Not Supplied
Address: Level 3, 136-138 Pacific Highway
Greenwich, NSW 2063

ENQUIRY DETAILS

Location: 18 Carrington Road, Castle Hill, NSW 2154
Sequence No.: 242802342
BYDA Reference: 37280138

In relation to your enquiry concerning the above location, Optus advises as follows:

Optus records indicate that there ARE underground Optus FIBRE OPTIC TELECOMMUNICATIONS ASSETS in the vicinity of the above location as per the attached drawing(s).

PLEASE NOTE that any interference with these assets may be considered an offence under the Criminal Code Act 1995 (Cth). Optus reserves the right to seek compensation for loss or damage to its assets including consequential loss.

This reply is valid for a period of 30 days from the date above.

IMPORTANT INFORMATION

Asset location drawings provided by Optus are reference diagrams and are provided as a guide only. The completeness of the information in these drawings cannot be guaranteed. Exact ground cover and alignments cannot be provided with any certainty as these may have altered over time. Depths of telecommunications assets vary considerably as do alignments. It is essential to identify the location of any Optus assets in the vicinity prior to engaging in any works.

All Optus assets in the vicinity of any planned works will need to be electronically located to ascertain their general location. Depending on the scope of planned works in the vicinity, the assets may also need to be physically located.

YOU MUST ENGAGE THE SERVICES OF ONE OF THE OPTUS ASSET ACCREDITED LOCATORS TO CARRY OUT ASSET LOCATION (REFER LIST OF ACCREDITED LOCATORS AT THE END OF THIS OPTUS RESPONSE).

Unless otherwise agreed with Optus, where an on-site asset location is required, the requestor is responsible for all costs associated with the locating service including (where required) physically exposing the Optus asset.

DUTY OF CARE

When working in the vicinity of telecommunications assets you have a legal "Duty of Care" and non-interference that must be observed.

It is your responsibility as the requesting party (as a landowner or any other party involved in the planned works) to design for minimal impact to any existing Optus asset. Optus can assist at the design stage through consultation.

It is also your, as the requesting party (or your representative's), responsibility to:

- a) Obtain location drawings (through the Before You Dig Australia process) of any existing Optus assets at a reasonable time before any planned works begin;
- b) Have an Optus Accredited Asset Locator identify the general location of the Optus asset and physically locate the asset where planned works may encroach on its alignment; and
- c) Contact Optus for further advice where requested to do so by this letter.

Optus – Before You Dig Australia Response – V15

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DAMAGE TO ANY OPTUS ASSET MUST BE REPORTED TO 1800 505 777 IMMEDIATELY

You, your head contractor, and any relevant subcontractor are all responsible for any Optus asset damage as a result of planned activities in the vicinity of Optus assets.

This applies where works commence prior to obtaining Optus drawings, where there is failure to follow instructions or during any construction activities.

Optus reserves the right to recover compensation for loss or damage to its assets including consequential loss. Also, you, your head contractor and any relevant subcontractor may also be liable for prosecution under the Criminal Code Act 1995 (Cth).

ASSET RELOCATIONS

You are not permitted by law to relocate, alter or interfere with any Optus asset under any circumstance. Any unauthorised interference with an Optus asset may lead to prosecution under the Criminal Code Act 1995 (Cth). Enquiries relating to the relocation of Optus assets must be referred to the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

APPROACH DISTANCES

On receipt of Optus asset location drawings and prior to commencing any planned works near an Optus asset, engage an Optus Accredited Locator to undertake a general location of the Optus asset.

Physical location of the Optus asset by an Optus Accredited Locator will also be required where planned works are within the following approach distances of the general location of the Optus asset:

- In built up metropolitan areas where road and footpaths are well defined by kerbs or other features a minimum clear distance of 1 meter must be maintained from the general location of the Optus asset.
- In non-established or unformed metropolitan areas, a minimum clear distance of 3 meters must be maintained from the general location of the Optus asset.
- In country or rural areas where wider variations may exist between the general and actual location of an Optus asset may exist, then a minimum clear distance of 5 meters must be maintained from the general location of the Optus asset.

If planned works are parallel to the Optus asset, then the Optus asset must be physically located by an Optus Accredited Locator at a minimum of 5 meter intervals along the length of the parallel works prior to work commencing.

Under no circumstances is crossing of any Optus asset permitted without physical location of the asset being carried out by an Optus Accredited Locator. Depending on the asset involved an Optus representative may be required onsite.

The minimum clearances to the physical location of Optus assets for the following specific types of works must be maintained at all times.

Note: Where the clearances in the following table cannot be maintained or where the type of work differs from those listed then advice must be sought from the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

Type of Works	Clearance to Physical Location of Optus Asset
Jackhammers / Pneumatic Breakers	Not within 1 meter.
Light duty Vibrating Plate or Wacker Packer type compactors (not heavy road construction vibrating rollers etc.)	500mm compact clearance cover before a light duty compactor can be used over any Optus conduit. No compaction permitted over Optus direct buried cable without prior approval from Optus.
Boring Equipment (in-line, horizontal and vertical)	Not within 5 meters parallel of the Optus asset location without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite. Not to cross the Optus asset without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite.

Type of Works	Clearance to Physical Location of Optus Asset
Heavy vehicle Traffic (over 3 tonnes)	Not to be driven across Optus conduits with less than 600mm of cover. Not to be driven across Optus direct buried cable with less than 1.2 meters of cover. Once off crossings permitted, multiple crossing (e.g. road construction or logging) will require Optus approval. Accredited Optus Asset Locator to physically expose the Optus asset to verify actual depth.
Mechanical Excavators, Farm Ploughing, Vertical Hole Installation for water bore or fencing etc.	Not within 1 meter. Accredited Optus Asset Locator to physically expose the Optus asset to verify actual location.

ASSET CLEARANCES AFTER COMPLETION OF WORKS

All Optus pits and manholes must be a minimum of 1 meter from the back of any kerb, 3.5 meters of the road surface without a kerb or not within 15 meters of street intersection.

In urban areas Optus conduit must have the following minimum depth of cover:

- Footway 600mm;
- Roadway 1 meter at drain invert and at road centre crown.

In rural areas Optus conduit must have a minimum depth of cover of 1 meter and direct buried cable 1.2 meters.

In cases where it is considered that the above clearances cannot be maintained at the completion of works, advice must be sought from the relevant Optus Damages and Relocations Team (refer "Further Assistance").

FURTHER ASSISTANCE

Further assistance on asset clearances, protection works, or relocation requirements can be obtained by contacting the relevant Optus Damages and Relocations Team on the following email address:

NECDamages&RelocationsDropbox@optus.com.au

Further assistance relating to asset location drawings etc. can be obtained by contacting the Optus Network Operations Asset Analysis Team on 1800 505 777.

OPTUS ENGINEERING DRAWING SYMBOLS



OPTUS Optus Accredited Asset Locators					
Name	Company Name	Phone	Email	State	Region/Service Area
Drew Mielke	Australian Subsurface Pty Ltd	0427 879 600	admin@australianubsurface.com	ALL	ALL
Andrew Watson	Subsurface Mapping Solutions Pty Ltd	0408 839 723	admin@subsurface.com.au	ALL (Not TAS)	South East QLD + Aus wide
Chris Gordon	Heavy Construction Solutions	1300 859 027	chris.gordon@hcsol.com.au	VIC, NSW, QLD, SA, TAS	All
Alan Cordner	Alcom Fibre Services Pty Ltd	0400 300 327	alcomfibre@bigpond.com	NSW	Sydney, NSW
Brad McCorkindale	Bradmac Locating Services	0434 157 409	info@bradmaclocating.com.au	NSW	NSW
Shane Buckley	Cable & Pipe Locators Pty Ltd	0408730430	shane@cableandpipelocators.com.au	NSW	North Coast, Mid North Coast, Central West, Northern Rivers
Annabelle Pegler	Down Under Detection Services (DUDS)	0418 267 964	apegler@duds.net.au	NSW	All
Bruce Whittaker	Optical Fibre Technologies	0402 354 322	opticaltel1@aol.com	NSW	Sydney/Wollongong
George Koenig	Downunder Locations	0438243856	downunderlocations@gmail.com	NSW	Tweed Heads/Gold Coast
Michael Grant	M&K Grant Boga Bobcats Pty Ltd	0427 260 423	xxbobcat@bigpond.net.au	NSW	Bega, Far South Coast
Antony Critcher	Geotrace Australia Pty Ltd	0417 147 945	antony@geotrace.com.au	NSW	All Areas, Sydney, Wollongong, Newcastle, ACT
Sarah Martin	Hydro Digge	0447 774 000	admin@hydrodigge.com	NSW	Mid North Coast
Nathan Ellis	Utility Locating Services	0404 087 335	nathan@uls.com.au	NSW	Sydney
Scott O'Malley	Coastal Cable Locators Pty Ltd	0427 975 777	skomalley@bigpond.com	NSW	South Coast- Snowy Mountains- Southern Highlands
Liam Bolger	Brandon Construction Services	0438 044 608	liam.bolger@hotmail.com	NSW	Sydney
Laure Elvery	Durkin Construction Pty Ltd	02 9712 0308	info@durkin.au	NSW	NSW

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Shireen Sidhu	Locate & Map	(02) 8753 0049	admin@locateandmap.com.au	NSW	Sydney & Regional NSW only
Ken Browne	Rfeway Traffic Control Pty Ltd	0419 212 969	kibrowne@rfewayctr.com.au	NSW	Central Coast, Hunter
Jeann-Max Monty	Civilscan	1300 575 488	john@civilscan.com.au	NSW	Sydney, Central Coast, Newcastle, Wollongong, Hunter Valley, Blue Mountains
Scott Hunter	Hunter Ground Search	0409227245	admin@hunter-groundsearch.net.au	NSW	Hunter Upper Hunter, Central Coast, Newcastle
Damien Black	Mid North Coast Hydro Digging & Service Locating P/L	0418 409 465	dblack1@bigpond.com	NSW	Mid North Coast
Michael Nicholls	Utility Mapping NSW	1300 627 746	sydney@utilitymapping.com.au	NSW	All NSW
Joseph Restuccia	ProLocate	0415 633 293	joa.restuccia@prolocate.com.au	NSW	NSW Wide
Barry Maloney	Online Pipe & Cable Locating	1300 665 384	office@onlinepipe.com.au	NSW	Sydney, Central Coast, Canberra, Wollongong, Newcastle
Sam Romano	Locating Services	0403 065 510	sam.romano@locatingservices.com.au	NSW	NSW All
Scott Allison	Crux Surveying Australia	02 9540 9940	scott@cruxsurveying.com.au	NSW	Sydney Metro & Surrounding Areas
Donna Wulfsart	Commence Communications Pty Ltd	02 6226 3869	admin@commencecomm.com.au	NSW	Canberra/ Yass / Bungendore/ Goulburn and surrounding regional areas
Grant Pearson	Warrabinya Services	0423 651 615	alex@warrabinya.com.au	NSW	Sydney Metro & Surrounding Areas
Stephen Fraser	Advanced Ground Locations	(02) 4930 3195	steve_agf@hotmail.com	NSW	Newcastle, Hunter Valley, Central Coast, Taree & Surrounding Areas
Andrew Findley/ Anthony Hart	LiveLocates	0429 899 777	info@livelocates.com.au	NSW	South Coast/ACT, Snowy Mountains
Graeme Teege	Armida Electrical	02 6772 3702	office@armida-electrical.com.au	NSW	Armida
Samantha Gupbill	Australian Locating Services	1300 761 545	admin@locating.com.au	NSW	Sydney / Central Coast
Clay Lansynis	Lansynis Electrical	0411142627	kindy@lansyniselectrical.com.au	NSW	Illawarra, South Coast, Shoalhaven, Southern Highlands

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OPTUS Optus Accredited Asset Locators					
Name	Company Name	Phone	Email	State	Region/Service Area
Drew Mielke	Australian Subsurface Pty Ltd	0427 879 600	admin@australianesubsurface.com	ALL	ALL
Andrew Watson	Subsurface Mapping Solutions Pty Ltd	0408 839 723	admin@subsurfacems.com.au	ALL (Not TAS)	South East QLD + Aus wide
Chris Gordon	Heavy Construction Solutions	1300 859 027	chris.gordon@hazvics.com.au	VIC, NSW, QLD, SA, TAS	All
Alan Cordner	Alcom Fibre Services Pty Ltd	0400 300 327	alcomfibre@bigpond.com	NSW	Sydney, NSW
Brad McCorkindale	Bradmac Locating Services	0434 157 409	info@bradmaclocating.com.au	NSW	NSW
Shane Buckley	Cable & Pipe Locators Pty Ltd	0408730430	shane@cableandpipelocators.com.au	NSW	North Coast, Mid North Coast, Central West, Northern Rivers
Annabelle Pegler	Down Under Detection Services (DUOS)	0418 267 964	apegler@duos.net.au	NSW	All
Bruce Whittaker	Optical Fibre Technologies	0402 354 322	opticaltech1@aol.com	NSW	Sydney/Wollongong
George Koenig	Downunder Locations	0438243856	downunderlocations@gmail.com	NSW	Tweed Heads/Gold Coast
Michael Grant	MBK Grant Baga Bobcats Pty Ltd	0427 260 423	zzbobcat@bigpond.net.au	NSW	Bega, Far South Coast
Antony Critcher	Geotrace Australia Pty Ltd	0417 147 945	antony@geotrace.com.au	NSW	All Areas, Sydney, Wollongong, Newcastle, ACT
Sarah Martin	Hydro Digga	0447 774 000	admin@hydrodigga.com	NSW	Mid North Coast
Nathan Ellis	Utility Locating Services	0404 087 333	nathan@uls.com.au	NSW	Sydney
Scott O'Malley	Coastal Cable Locators Pty Ltd	0427 975 777	skomalley@bigpond.com	NSW	South Coast- Snowy Mountains- Southern Highlands
Liam Bolger	Brandon Construction Services	0428 044 008	liam.bolger@hotmail.com	NSW	Sydney
Laure Elvery	Durkin Construction Pty Ltd	02 9712 0308	info@durkin.au	NSW	NSW

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Shireen Sidhu	Locate & Map	(02) 8753 0049	admin@locateandmap.com.au	NSW	Sydney & Regional NSW only
Ken Browne	Ribway Traffic Control Pty Ltd	0419 212 969	kibrowne@ribwayctr.com.au	NSW	Central Coast, Hunter
Jean-Max Monty	Civilscan	1300 575 488	john@civilscan.com.au	NSW	Sydney, Central Coast, Newcastle, Wollongong, Hunter Valley, Blue Mountains
Scott Hunter	Hunter Ground Search	0409227345	admin@hunter-groundsearch.net.au	NSW	Hunter, Upper Hunter, Central Coast, Newcastle
Darren Black	Mid North Coast Hydro Digging & Service Locating P/L	0418 409 465	dblack10@bigpond.com	NSW	Mid North Coast
Michael Nicholls	Utility Mapping NSW	1300 627 746	sydney@utilitymapping.com.au	NSW	All NSW
Joseph Restuccia	ProLocate	0415 633 393	joa.restuccia@prolocate.com.au	NSW	NSW Wide
Barry Maloney	Online Pipe & Cable Locating	1300 665 384	office@onlinepipe.com.au	NSW	Sydney, Central Coast, Canberra, Wollongong, Newcastle
Sam Romano	Locating Services	0403 065 510	sam.romano@locating-services.com.au	NSW	NSW All
Scott Allison	Crux Surveying Australia	02 9540 9940	scott@cruxsurveying.com.au	NSW	Sydney Metro & Surrounding Areas
Donna Willeert	Commence Communications Pty Ltd	02 6226 3869	admin@commencecomms.com.au	NSW	Canberra/ Yass / Bungendore/ Goulburn and surrounding regional areas
Grant Pearson	Warrabinye Services	0423 651 615	gabe@warrabinye.com.au	NSW	Sydney Metro & Surrounding Areas
Stephen Fraser	Advanced Ground Locations	(02) 4930 3195	steve_agl@hotmail.com	NSW	Newcastle, Hunter Valley, Central Coast, Taree & Surrounding Areas
Andrew Findley/ Anthony Hart	LiveLocates	0429 899 777	info@livecreates.com.au	NSW	South Coast/ACT, Snowy Mountains
Graeme Teege	Armidale Electrical	02 6772 3702	office@armidale-electrical.com.au	NSW	Armidale
Samantha Gupbill	Australian Locating Services	1300 761 545	admin@locating.com.au	NSW	Sydney / Central Coast
Clay Leneyne	Leneyne Electrical	0411142627	kindy@leneyneelectrical.com.au	NSW	Illawarra, South Coast, Shoalhaven, Southern Highlands

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Reece Gainsford	East Coast Locating Services	0431 193 111	astcoastlocating@hotmail.com	NSW	Sydney, Maitland, Newcastle, Hunter, Port Stephens, Central Coast
Craig Vallyley	Aqua Freeze & Locate Pty Ltd	0458 774 440	service@aquafreeze.com.au	NSW	Sydney only
Jason Vane	SmartScan Locators PTY Ltd	1300 778 923	Admin@locators.com.au	NSW	Sydney
Alex Farcaah	Newcastle Locating Services Pty Ltd	0410690599	Admin@newcastlelocating-services.com.au	NSW	Newcastle, Hunter Valley, Central Coast, Taree & Surrounding Areas
Amer El Chami	Site Scan Pty Ltd	0449 992 520	office@site-scan.net.au	NSW	All NSW
Ian Brown	A1 Locate Services	0400 484 825	Ian.brown@a1locate.com.au	NSW	All NSW
Paul Wallis	Beveridge Williams	0431 450 070	wallis@bevwill.com.au	NSW	Newcastle Sydney Wollongong
Cameron Handley	Wombat Underground Services	0407477030	accounts@wombatunderground-services.com.au	NSW	ALL
Samantha Cupido	Geoscope Utility Detection Services Pty Ltd	1300 730 330	info@geoscope-detection.com.au	NSW	All regions
Laurence Mead	Astrea Pty Ltd	1300 009 346	admin@astrea.com.au	NSW	Sydney Only
Braydon Greenwood	City Coast Services	0422432813	braydon.greenwood@citycoast.com.au	NSW	NSW
Jim Morrison	Absolute Utilities Pty Ltd	0429 496 275	jim@absoluteutilities.com.au	NSW	Mid North Coast
Declan Dowd	Dowds Pipe And Cable Locating	0434 635 134	accounts@pipeandcable.com.au	NSW	Sydney/Wollongong/South Coast / Highlands/South west Sydney
Nicholas Schneider	Subsurface Utility Solutions	0421157372	nick@subsurf.com.au	NSW	Sydney only
Ricky Evans	Riverina Cable Locating	0411444900	ricky@riverinacablelocating.com.au	NSW	Riverina, Murray
Adrian Ruane	Road and Rail Excavations Pty Ltd	0414 594 063	info@roadandrailexcavations.com.au	NSW	Sydney only
Billy Cameron	Locate Down Under Pty Ltd	0431275034	info@locatedownunder.com.au	NSW	Central Coast/ Sydney
Daniel Hudson	Geoscan Locating Pty Ltd	1300 554 675	danh@geoscan.com.au	NSW	Sydney only
Ronnel Chand	JDC Civil	0416506891	uechunam@gmail.com	NSW	Sydney only

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Tim Briggs	Deetect Locating Services	0414630852	deetect.locating@outlook.com	NSW	ACT / NSW
Sean Fambler	Utach Solutions Pty Ltd	1300 427 614	seanf@utachcivil.com.au	NSW	Sydney only
Mark Resbuda	Direct Connect Locating PTY LTD	0400507690	info@directconnecting.com.au	NSW	NSW only
Ali Chahine	Underground Industries	0406906787	info@undergroundindustries.com.au	NSW	Sydney only
Scott Copetti	Metiri	0435 710 399	scott@metiri.com.au	NSW	Newcastle & Hunter Region
Blake Richardson	VFT	0409 210 502	b.richardson@vftes.com	NSW	NSW
Brett Pickup	BAP Services Pty Ltd	0434006009	brett@bap-services.com.au	NSW	All Areas, Sydney, Illawarra, Newcastle, ACT
Patrick Billingham	OdDetect Pty Ltd	0497700667	patrick@ozdetect.com.au	NSW	NSW
Euan Gow	Junovich Surveying	1300 750 000	egow@junovichsurveying.com.au	WA/NSW/SA	All state
Jason Steger	Steger & Associates Registered Land Surveyors	0400 008 641	jason.steger@steger.com.au	ACT/NSW	ACT & Surrounds
Samuel Hathaway	Landmark Surveys	02 6280 9608	admin@landmarksurveys.com.au	NSW/ACT	ACT & Southern NSW
Kaiser seifan	Australian Utility Search Pty Ltd	0424 841 888	kaiser@australiasearch.com.au	NSW/ACT	All NSW, ACT
Daniel Fox	Epoca Environmental Pty Ltd	1300 376 220	daniel@epocaevironmental.com.au	NSW & ACT	All NSW & ACT
Scott Tancred	SureSearch Underground Services	1300 884 320	Scott.Tancred@suresearch.com.au	NSW/ACT QLD	NSW, Sydney, Northern NSW, Canberra, QLD, South East QLD.
Justin Martinez	LOG GLOBAL PTY LTD	0401749007	j.martinez@log-solutions.com.au	NSW, ACT, QLD, VIC	All regions
Troy Redden	On Point Utility Locating	1300 66 76 46	troy@onpointlocating.com.au	NSW/QLD	Throughout both states
Geoff Campbell	CLS Locating	0430759457	geoff@clscampbelllocating.com.au	NSW/QLD	All QLD, Northern Rivers, NSW
Alexander Bogdanoff	Expert Service Locating	0420346477	info@expertservice-locating.com.au	NSW/QLD	Brisbane, Gold Coast, Sunshine Coast Northern Rivers NSW
Patrick Popovic	Site And See Pty Ltd	0479 162 692	patrick@siteandsee.com.au	QLD/NSW	South East QLD & Northern NSW

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Rhys Lambert	Provac / one find cables	1300 734 772	rhys@provac.net.au	QLD	South East QLD
Paul Beaton	Cairns Asset Locations	0448 157 227	paul.beaton@cladstrenching.com.au	QLD	FNQ to NT Border
Chris Hall	D C Locators Pty Ltd	0419 679 741	dcloc@spooner.com.au	QLD	Brisbane, Ipswich
Benji Lee	LADS	0478 915 237	benji@ladsqld.com.au	QLD	South East QLD
Ian Lambert	Lambert Locations Pty Ltd	07 3362 8400	admin@lambertlocations.com.au	QLD	South East QLD & Northern NSW
Ross Clarke	FNQ Cable Locators Pty Ltd	0428 775 655	ross@bigpond.net.au	QLD	QLD REGION
Col Greville	Boure Locators	0488 520 668	admin@bourelocators.com.au	QLD	Wide Bay & Burnett Central and Western QLD & Western Downs
Matthew Carr	Pensar	0405609739	matty.carr@pensar.com.au	QLD	Brisbane
Jimmy Wilkins	GeoRadar Australia Pty Ltd	0425057722	jimmy@georadar.net.au	QLD	Emerald, Bundaberg
Craig Waite	C Locate	0437 808 444	clocate@bigpond.com	QLD	Brisbane GC SC
Jeffrey Lanehan	Syndicate Communications	0404 151 270	jlanehan@syndicate.com.au	QLD	Brisbane
Toni O'Dell	Utility Location Services	1300 001 857	td@utilitylocation-services.com.au	QLD	South East QLD
Michael Jackman	Utility Mapping QLD	1300 627 746	mjackman@utilitymapping.com.au	QLD	All QLD
Jenny Driduch	1300 Locate Pty Ltd	1300 562 283	admin@1300locate.com.au	QLD	All Queensland, Northern NSW
Brendon Smith	Advanced Locating PTY LTD	0424678823	admin@advancedlocating.com.au	QLD	Gold Coast
Samuel Hazel	Utility ID Underground Service Locators	0401 202 515	sam@utilityid.com.au	QLD	Darling Downs, South West QLD and South East QLD
Bruce Normyle	Dynamic Hydro Excavations	0434 731 933	admin@dynamicexcavations.com.au	QLD	QLD
Michael Koschal	Precision Service Locating	07 46462845	psl@psalocating.com.au	QLD	All QLD / North West NSW/South East QLD
Robert Rutledge	Safe Dig Services	+61 7 3376 0836	rutledge@safe-dig.com.au	QLD	Brisbane

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Michael Fatta	ICUC Locating Services Pty Ltd	0416085365	michael.fatta@icuclocatingservices.com.au	QLD	South East QLD
Ben Stephens	DTS Group TA Electroscan	0434 140 336	ben.s@electroscanqld.com.au	QLD	Queensland
Adam Lloyd	Auxilia HydroVac Services	07 3287 7818	adam.lloyd@auxiliary-dig.com.au	QLD	All
Michael Prentice	Onsite Utility Locations	0437 172 601	admin@onsiteutilitylocations.com.au	QLD	SEQ
Roland Mollison	LandPartners Pty Ltd	0439 488 545	roland.mollison@landpartners.com.au	QLD	South East Queensland
Duncan McGrath	Abletech Underground Group	0418 511 767	duncan@abletechunderground.com.au	QLD	QLD Wide
Daniel Poppi	Ace Cable Locations	0431517837	acecablelocations@bigpond.com	QLD	Wide Bay Burnett
Carl Molloy	Provac Melbourne	0451 104 611	melbourne@provac.net.au	VIC	Melbourne Region
Olivier Davies	Central Locating PTY LTD	0439 995 894	olive@centrallocating.com.au	VIC	Melbourne & Western Victoria
Tina Brereton	D-Tech Ground & Overhead	03 9544 8933	tina@dt-tech.net.au	VIC	All
Josh Taylor	Advanced Locations Victoria Pty Ltd	0427846716	josh@advancedlocationsvic.com.au	VIC	All Victoria
Ben Minutoli	Geelong Cable Locations	1800 449 543	ben@geelongcablelocations.com.au	VIC	Melbourne, Geelong, Country Victoria
Mick McGoldrick	Locate Cables	0404 241 679	mick@locatecables.com	VIC	Western Victoria
Alex Jones	Utility Mapping VIC	1300 627 746	melbourne@utilitymapping.com.au	VIC	All VIC
Phi Nguyen	Asset Detection Services Pty Ltd	1300 300 100	phi.nguyen@assetdetection.com.au	VIC	Melbourne/VIC
Maurice Tobin	Drain Solutions	0412 111600	info@drainsolutions.com.au	VIC	Melbourne Metro
Kate Pickler	Seeker Utility Engineering	1300 733 383	admin@seekerutilityengineering.com.au	VIC	All Victoria
Leigh French	Veris Australia VIC	(03) 7019 8400	melbourne@veris.com.au	VIC	Melbourne
Ben Wooldridge	Controltech Solutions	0447 760 739	ben.wooldridge@controltechsolutions.com.au	VIC	Melbourne

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Chris Sandilant	Access Utility Engineering P/L	02 9799 8788	chris.sandilant@accessue.com.au	VIC	Victoria & Regional
Shaun Stephen	STS Locating Services	0408 181 734	stselocatingservices@gmail.com	VIC	All VIC
Glen Foreman	Underground Services Detection Pty Ltd	0402 748 889	undergroundservices@shippond.com	VIC	Victoria
Clinton Carver	Enright Underground Pty Ltd	0468 908 273	clinton@enrightunderground.com.au	VIC	Victoria
Undray Botha	L B Underground Service Locations & Engineering	0499 658 677	lb.locations.enr@enr-mofoffice.com	VIC	Metro and Regional Victoria
Damien Nielsen	ELS Environmental Location Systems Pty Ltd	0499 499 137	bookings@elsvic.com.au	VIC	Victoria only
Tyler Blake	CHS Group	0409 437 730	tyler.blake@chsgroup.com.au	VIC	Honsham VIC
Craig Jackson	Survey Management Solutions	0400647299	craig@surveyms.com.au	VIC	All Regions
Ashley Stevens	ABG HYDRO Pty Ltd	0422 798 476	ashley.stevens@abghydro.com.au	NSW/VIC	All of VIC, Regional NSW
Eddie Santae	Taylor's Development Strategists	0488 700 155	m.taeke@taylordevs.com.au	VIC/SA/TAS	Victoria
Taryn van Dyk	Trenchless Relaying Contractors (TRC)	08 8376 5911	trc@trenchlessrelaying.com.au	SA	All
Marc Rose	SADB	0488190699	marc@sadb.com.au	SA	Adelaide only
Matthew Lewis	Adelaide Pipeline Maintenance services	0431 870 471	matt.apms@gmail.com	SA	South Australia
Dennis Stray	Pinpoint Services Mapping	(08) 8130 1600	helio@pinpointm.com.au	SA	SA and western VIC
Liam Gill	Michael Greer Surveys	08 82788732	lpgill@mg-surveys.com.au	SA	SA
Matthew Cooper	Fulton Hogan	0447 320 381	Matthew.Cooper@fulton-hogan.com.au	SA	South Australia
Liam Catchpole	APEX SERVICE LOCATING PTY LTD	0458 924 471	liam@apexservice.com.au	SA	Adelaide
Bradley Gosling	Engineering Surveys	0433506880	bradling@engsurveys.com.au	SA	Adelaide
Jason Revill	MNE/Platinum Locating Services	08 94080625	jason.revill@platinumlocating.com.au	WA	Perth
Henry Westbrook	Cable Locates & Consulting	08 9524 6600	admin@cablelocates.com.au	WA	All WA

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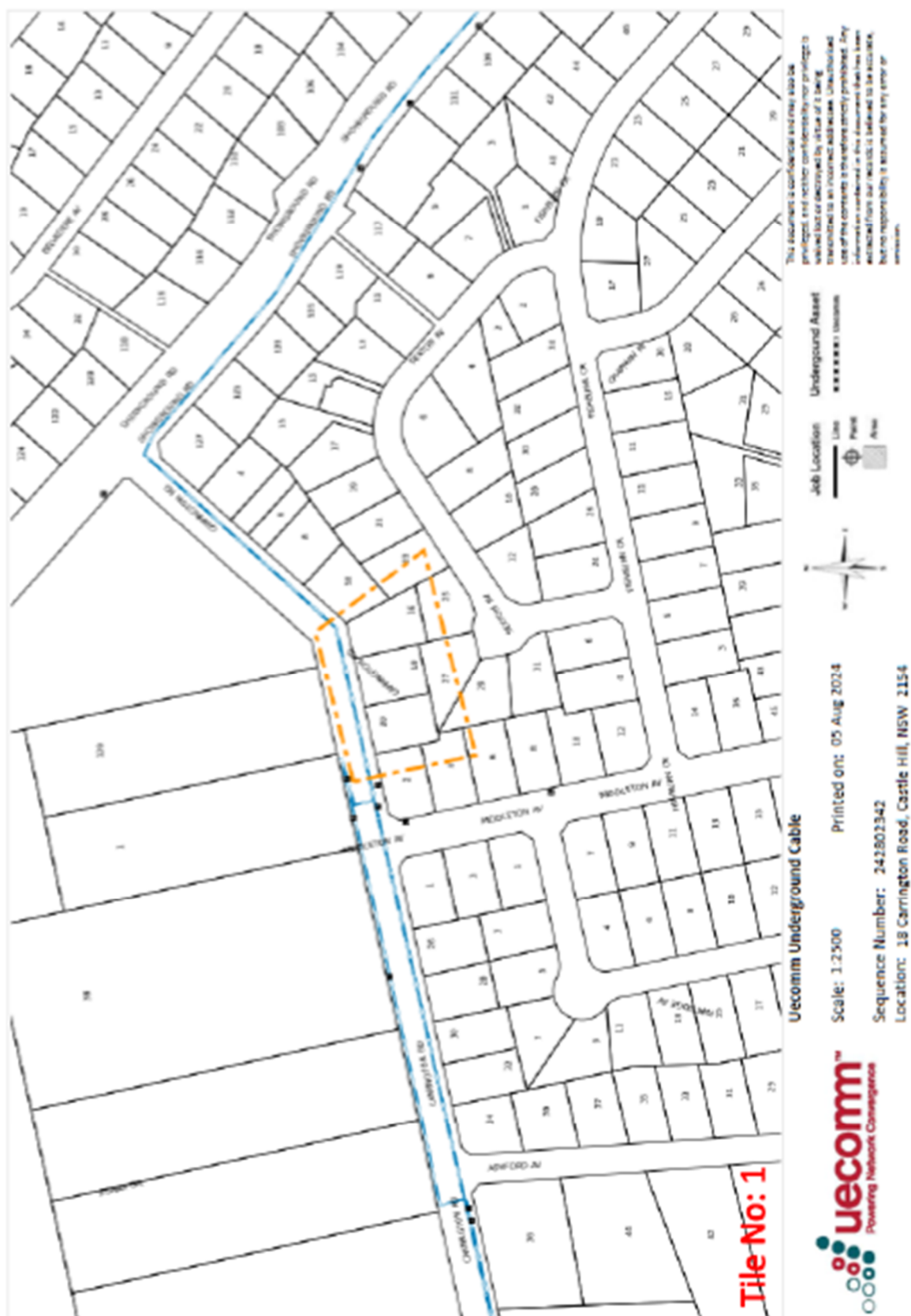
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Cameron Swift	Mikocomm Communication	08 9337 1125	cswift@mikocomm.com.au	WA	All
Tabi Lawrence Ward	Abaxa	08 9256 0100	enquiries@abaxa.com.au	WA	Perth, Southwest, Western Australia
Ben Upton	TerraVac Vacuum Excavation	0433 374 882	locations@terravac.com.au	WA	Perth
Dale Sheersmith	Subterra	1300 046 636	dale@subterra.com.au	WA	WA
Cheron Ingram	Bunbury Telecom Service Pty Ltd	08 9726 0088	cheron@btswa.com.au	WA	WA
Drew Monkhouse	Utility Mapping WA	1300 627 746	perth@utilitymapping.com.au	WA	All WA
Edel O'Connor	Kier Contracting	0456 190 910	edel@kier.com.au	WA	Perth Metro & greater region; Regional WA
Nigel Nunn	CCS Group / Utility Locating Solutions	08 9385 5000	snunn@ccsusa.com.au	WA	Perth
Jeremy Brown	Spottera Asset Locations Pty Ltd	0459 130 677	jacemy@spotterassetlocations.com.au	WA	All
Reece Topham	Prime Locate	0400 888 406	reece@primelocate.com.au	WA	All
Rhyce Murphy	RM Surveys	08 9457 7900	rhyce.murphy@rmurveys.com.au	WA	All
James Horton	Westscan Pty Ltd	1300 858 404	westscan1@gmail.com	WA	All
Ashleigh Austin	Veris WA	0419 024 696	perth@veris.com.au	WA	Perth Metro & Regional
Suhaimi Suhaimi	BCE Spatial	08 9791 7411	harry@bcespatial.com.au	WA	WA
Tim Davis	Award Contracting Pty Ltd	0411 878 893	info@awardcontracting.com.au	WA	Metro & Country Regions
Stephen Steart	Cabling WA Pty Ltd	0422 845 586	ssteart@cablingwa.com.au	WA	Perth Metro
Devryn Barto	Pulse Locating	0421402728	devryn.barto@pulselocating.com.au	WA	Western Australia
Josh Pool	Utility Mapping NT	1300 627 746	devryn@utilitymapping.com.au	NT	All NT
Stuart Speckman	FYFE	08 8944 7888	Stuart.Speckman@fyfe.com.au	NT/SA/NSW	NT/SA/NSW

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Wayne Parslow	Danisam	0417 089 065	danisam@westnet.com.au	NT	Derwin NT and Surrounds
Scott Cresser	Panaltac Group	0400 895 637	scott@panaltac.com.au	TAG	All



Sam Maddad
To: Not Supplied
Level 5, 156-158 Pacific Highway
Greenwich, NSW 2065



Uecomm Pty Limited
ABN 55 079 083 195

Building B, 658 Church St,
Richmond, VIC 3121
Ph: (03) 9221 4100
Fax: (03) 9221 4193
Alt: 1800 707 447

LOCATION OF UNDERGROUND FIBRE OPTIC CABLE INFORMATION SHEET

IMPORTANT: PLEASE READ ALL INFORMATION AND CONDITIONS BELOW AND THE NOTICE ON THE REVERSE SIDE OF THE PLAN/S.

242802342	05 Aug 2024
"Before You Dig Australia" Sequence No	Issue Date: Optus and/or Uecomm NSW
Customer ID	Issue By:

18 Carrington Road, Castle Hill, NSW 2154

Location:
Uecomm Asset Location No. 37280138
Before You Dig Australia Job No.

In relation to your enquiry at the above address, Uecomm advises as follows:

The records of Uecomm Limited disclose that there **ARE** underground **FIBRE OPTIC / TELECOMMUNICATIONS** cables in the vicinity of the above enquiry as per attached plan/s.

- The underground cables referred to in this advice are defined as the underground communications cables owned or controlled by Uecomm Pty Limited.
- The person/company responsible for submitting the inquiry should take care to ensure all plans listed above have been received. For any plan listed above but not received please contact **1800 707 447**.
- Any information provided is valid only for **30 days** from the date of issue set out above.
- If the work operations extend beyond this period, or if the designs are altered in any way, you are requested to resubmit your proposal for reassessment.
- Further assistance may be obtained if necessary, by telephoning **1800 707 447**.

PLEASE READ ALL INFORMATION AND DISCLAIMERS BELOW:

1. Due to the nature of underground cables and the age of some cables and records, it is impossible to conclusively ascertain the location of all cables. The accuracy and/or completeness of the information cannot be guaranteed and, accordingly, they are intended to be indicative only and, as a result, Uecomm does not accept any responsibility for any inaccuracies of its plans. They should not be solely relied upon when undertaking underground works. It is also inaccurate to assume that fibre optic cables follow straight lines and careful on-site investigations are essential to locate its exact position.
2. The following minimum clearances must be maintained:
 - 300mm when laying asset's in-line, horizontal or vertical.
 - 500mm when operating vibrating equipment, e.g., jackhammers or vibrating plates.
 - 1000mm when operating mechanical excavators.
3. Due to the inherent dangers associated with excavation in the vicinity of underground cables, precautions should be taken in the undertaking of any underground works, including (but not limited to) the following:
 - All excavation sites should be examined for underground cables by careful hand excavation. Cable cover slabs if present must not be disturbed. Hand excavation needs to be undertaken with extreme care to minimise the likely hood of damage to the cable, e.g., blades of hand equipment should be orientated parallel to the line of the cable rather than digging across the cable.
 - If any undisclosed underground cables are located, Uecomm Limited should be notified immediately.
 - All personnel must be properly briefed, particularly those associated with the use of earthmoving equipment, trenching, boring and pneumatic equipment.
 - All excavations must be undertaken in accordance with the relevant legislation and regulations.

4. **DAMAGE. ANY DAMAGE TO UECCOMM'S NETWORK MUST BE REPORTED IMMEDIATELY TO 1800 707 447.**
5. Uecomm recommends using Uecomm approved location contractors to provide on-site location services for Uecomm plant. You can arrange Uecomm on-site visits by calling Uecomm on 1800 707 447 and Uecomm or its approved representative will attend your site to provide guidance to the location of the Uecomm assets (the "Uecomm Asset Alignment"). Uecomm requires 3 clear business days' notice to conduct an on-site location. The initial on-site visit by Uecomm will not normally incur a charge, but at the discretion of Uecomm, subsequent site visits may incur a charge to be applied at an hourly rate.
6. Uecomm will hold the relevant party responsible for any damage to Uecomm plant and all expenses incurred by Uecomm as a result of asset damage.
7. Except to the extent that liability may not be capable of lawful exclusion, Uecomm Pty Limited and its servants and agents and the related bodies corporate of Uecomm Pty Limited and their servants and agents shall be under no liability whatsoever to any person for any loss or damage (including indirect or consequential loss or damage) however caused (including, without limitation, breach of contract negligence and/or breach of statute) which may be suffered or incurred from or in connection with this information sheet or any Plans attached hereto. Except as expressly provided to the contrary in this information sheet or the attached Plans, all terms, conditions, warranties, undertakings or representations (whether expressed or implied) are excluded to the fullest extent permitted by law.

We thank you for your enquiry and appreciate your continued use of the Before You Dig Australia and/or Uecomm Asset Analysis Service. If you require further information, please contact Uecomm on **1800 707 447**.

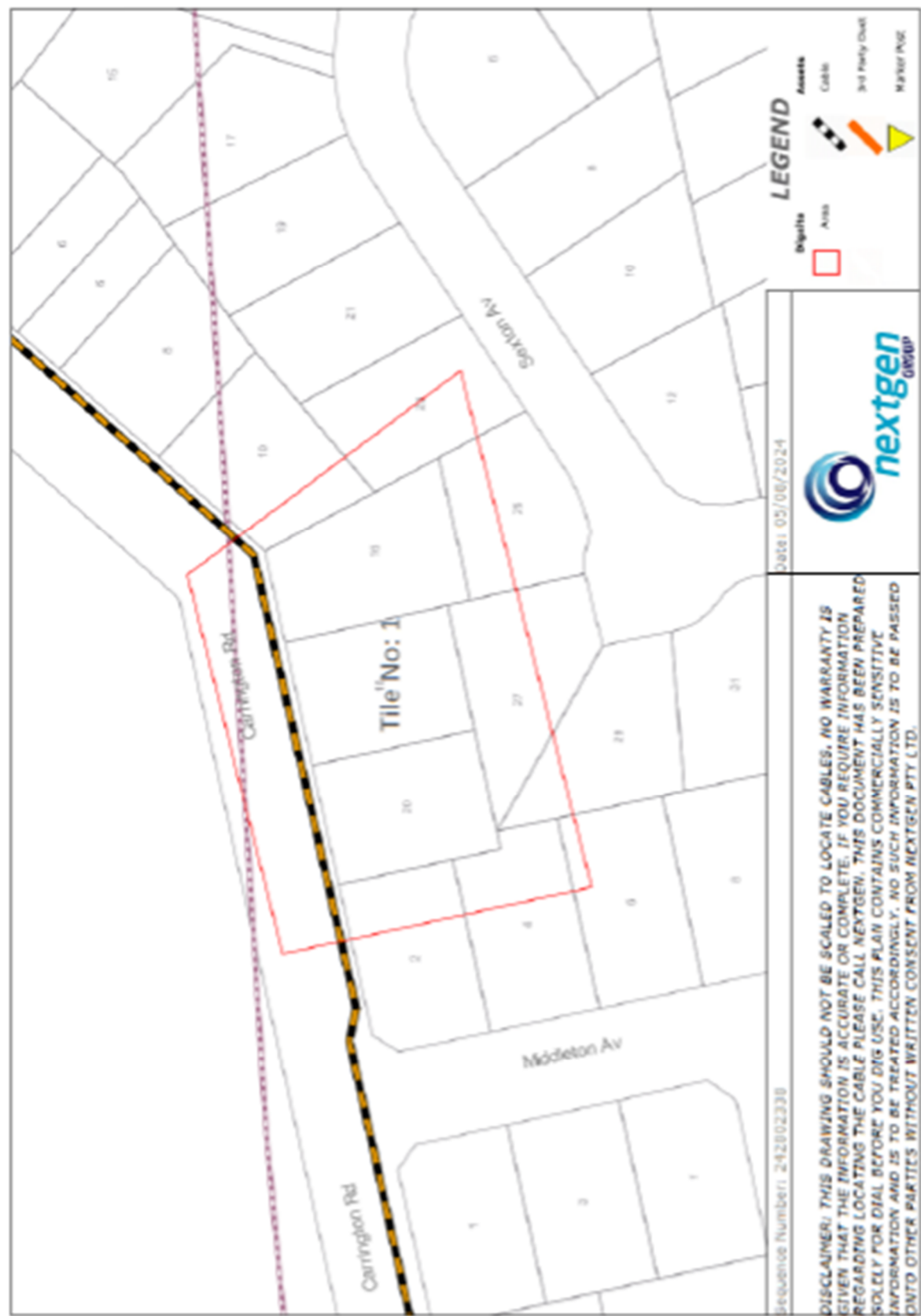
IMPORTANT This document may be confidential and privileged. Unauthorized use is prohibited. If you have it in error, please notify us and shred this document. Thank you.

Table 4.6 Optus / Uecomm Assessment

Element	Assessment
Authority	Optus / Uecomm
Impact to Development	Existing communications reticulation currently traverses the site and impacts the building footprint.
Action to Existing	It is proposed to disuse all existing services within site.
Proposed Upgrades	Nil.

4.7 NEXTGEN

Figure 4.7 Nextgen Cable Plan



Plant Location Details



05/08/2024

Sam Haddad
Not Supplied
Level 5, 156-158 Pacific Highway
Greenwich NSW 2065
Phone: +61288834239

Nextgen Networks Pty Ltd
Level 6, 333 Collins Street
Melbourne VIC 3000
T 1800 032 532
E Damage.Relocations@vocus.com.au

Dear Sam Haddad

The following is a response to your Dial Before You Dig enquiry

Assets Affected:

	Nextgen Assets
Sequence No:	242802338
Location:	18 Carrington Road, Castle Hill NSW 2154

IMPORTANT:

- Please read and understand all the information and disclaimers provided below
- Sketches and Plans provided by Nextgen Networks are circuit diagrams only and indicate the presence of telecommunications plant in the general vicinity of the geographical area shown; exact ground cover and alignments cannot be given with any certainty and cover may alter over time. Telecommunications plant seldom follow straight lines and careful on site investigation is essential to uncover and reveal its exact position
- The accuracy and/or completeness of the information in the plans can not be guaranteed often due to changes in the surrounding land subsequent to Nextgen's deployment and, accordingly the plans are intended to be indicative only

"DUTY OF CARE"

When working in the vicinity of telecommunications plant you have a legal "Duty of Care" that must be observed. The following points must be considered:

1. It is the responsibility of the owner and any consultant engaged by the owner, including an architect, consulting engineer, developer, and head contractor to design for minimal impact and protection of Nextgen Networks plant. Nextgen Networks will provide free plans and sketches showing the presence of its network to assist at this design stage.
2. It is the owner's (or constructor's) responsibility to:
 - a) Request plans of Nextgen Networks plant for a particular location at a reasonable time before construction begins
 - b) Visually locate Nextgen Networks plant by vacuum excavation (pot-holing) where construction activities may damage or interfere with Nextgen Networks plant (see "Essential Precautions and Approach Distances" section for more information)
 - c) Contact Nextgen Networks Network (see below for details) if Nextgen Networks plant is wholly or partly located near planned construction activities

DAMAGE

ANY DAMAGE TO Nextgen Networks NETWORK MUST BE REPORTED TO 1800 032 532 IMMEDIATELY

- The owner is responsible for all plant damage when works commence prior to obtaining Nextgen Networks plans, or failure to follow agreed instructions
- Nextgen Networks reserves all rights to recover compensation for loss or damage to its cable network or other property including consequential losses

CONCERNING NEXTGEN NETWORK PLANS

- Phone 1100. Dial Before You Dig for free plans of Nextgen Networks plant locations. Please give at least 2 business days notice
- Nextgen Networks plans and information provided are valid for 30 days from the date of issue
- Nextgen Networks retains copyright in all plans and details provided in conjunction with your request. These plans and/or details should be disposed of by shredding or any other secure disposal method after use
- Nextgen Networks plans or other details are provided for the use of the applicant, its servants, or agents, and shall not be used for any unauthorised purpose
- Please contact the Network Help Desk (see below for details) immediately should you locate Nextgen Networks assets not indicated on these plans
- Nextgen Networks, its servants or agents shall not be liable for any loss or damage caused or occasioned by the use of plans and/or details so supplied to the applicant, its servants and agents, and the applicant agrees to indemnify Nextgen Networks against any claim or demand for any such loss or damage
- Please ensure Nextgen Networks plans and information provided remains on-site at all times throughout your construction phase

ESSENTIAL PRECAUTION AND APPROACH DISTANCE

NOTE: If the following clearances cannot be maintained, please contact the Nextgen Network Help Desk (see below for details) for advice on how best to resolve this situation

1. On receipt of plans and sketches and before commencing excavation work or similar activities near Nextgen Networks plant, carefully locate this plant first to avoid damage. Undertake prior exposure (vacuum excavation) such as potholing when intending to excavate or work closer to Nextgen Networks plant than the following approach distances:
 - Where Nextgen Networks plant is in an area where road and footpaths are well defined by kerbs or other features a minimum clear distance of 600mm must be maintained from where it could be reasonably presumed that plant would reside
 - In non established or unformed reserves and terrain, this approach distance must be at least 1.5 metres
 - In country/rural areas which may have wider variations in reasonably presumed plant presence, the following minimum approach distances apply:
 - d) Parallel to major plants: 10 metres (for optic fibre cable)
 - e) Parallel to other plants: 5 metres

Note: Even pot-holing needs to be undertaken with extreme care, common sense and employing techniques least likely to damage cables. For example - vacuum excavation.

 - If construction work is parallel to Nextgen Networks plant, then careful pot-holing at least every 5m is required to establish the location of all plant, hence continuing nominal locations before work can commence
2. Maintain the following minimum clearance between construction activity and actual location of Nextgen Networks Plant.

Jackhammers/Pneumatic Breakers	<i>Not within 1.0m of actual locations</i>
Vibrating Plate or Wackers Packer Compactors	<i>Not within 0.5m of Nextgen Networks ducts 300mm compact clearance cover before compactor can be used across Nextgen Networks ducts, and 600mm clearance across Nextgen Networks cables in the solid</i>
Boring Equipment (in-line, horizontal and vertical)	<i>Not within 2.0m of actual location Constructor to check depth via vacuum excavation (pot-hole)</i>
Heavy Vehicle Traffic (over 3 tonnes)	<i>Not to be driven across Nextgen Networks ducts with less than 600mm cover. Not to be driven across Nextgen Networks fibre with less than 1.2m cover Constructor to vacuum excavate (pot-hole) and expose plant</i>
Mechanical Excavators, Boring and Tree Removal	<i>Not within 1.0m of actual location Constructor to vacuum excavate (pot-hole) and expose plant</i>

- All Nextgen Networks pits and manholes should be a minimum of 1.2m in from the back of kerb after the completion of your work
- All Nextgen Networks conduit should have the following minimum depth of cover after the completion of your work:

Footway 450mm

Roadway 450mm at drain invert and 600mm below the pavement subgrade level invert

- All Nextgen Networks fibre in the solid should have the following minimum depth of cover after the completion of your work:

Footway 600mm

Roadway 1200mm at drain invert and 1200mm below the pavement subgrade level invert

- For clearance distances relating to Nextgen Networks above ground infrastructure please contact the Network Help Desk (see below for details)

FURTHER ASSISTANCE

Over-the-phone assistance can be obtained by calling the Network Help Desk below.

Nextgen require 5 clear business days notice to conduct an on-site location. The initial on site location visit will not normally incur a charge, but at the discretion of Nextgen subsequent site visits may incur a charge to be applied at an hourly rate.

Where an on-site location is provided, the owner is responsible for all vacuum excavation work (pot-holing) to visually locate and expose Nextgen Networks plant.

If plant location plans or visual location of Nextgen Networks plant by vacuum excavation reveals that the location of Nextgen Networks plant is situated wholly or partly where the owner plans to work, then **Nextgen Networks** must be contacted through the **Network Help Desk** to discuss possible engineering solutions.

The contact number for the **Network Help Desk** is 1800 032 532.

NOTE:

If Nextgen Networks relocation or protection works are part of the agreed solution, then payment to Nextgen Networks for the cost of this work shall be the responsibility of the principal developer. The principal developer will be required to provide Nextgen Networks with the details of their proposed work showing how Nextgen Networks plant is to be accommodated and these details must be approved by the Nextgen National Operations Manager prior to the commencement of site works.

RURAL LANDOWNER - IMPORTANT INFORMATION

Where Nextgen Networks owned cable crosses agricultural land Nextgen Networks will provide a one off free-on-site electronic cable location. Please note that the exact location of cables can only be verified by visual proving by pot holing, which is not covered by this service. The Network Integrity HelpDesk Officer will provide assistance in determining whether a free-on-site location is required. Please ring the Nextgen Network Help Desk as listed above.

PRIVACY NOTE

Your information has been provided to Nextgen Networks by DBVD to enable Nextgen Networks to respond to your DBVD request. Nextgen Networks keeps your information in accordance with its privacy statement entitled 'Protecting Your Privacy' which can be obtained from Nextgen Networks either by calling 1800 032 532 or visiting our website www.nextgengroup.com.au

Warning: Nextgen Networks plans show only the presence of cables and plant. They only show their position relative to road boundaries, property fences etc, at the time of installation and Nextgen Networks does not warrant or hold out that such plans are accurate thereafter due to changes that may occur over time.

DO NOT ASSUME DEPTH OR ALIGNMENT of cables or plant as these vary significantly. The customer has A DUTY OF CARE when excavating near Nextgen Networks cables and plant. Before using machine excavators NEXTGEN PLANT MUST FIRST BE PHYSICALLY EXPOSED BY VACUUM EXCAVATION (potholing) to identify its location.

Nextgen Networks will seek compensation for damages caused to its property and losses caused to Nextgen Networks and its customers.

EXPERIENCED PLANT LOCATORS (for your area)

On-site assistance should be sought from an Experienced Plant Locator if the telecommunications plant cannot be located within 2.5 metres of the locations indicated on the drawings provided. On-site advice should be obtained from a suitably qualified contractor highly skilled in locating Nextgen Networks plant. If there is any doubt whatsoever about the actual location of the telecommunications plant, the best method for locating the telecommunications plant or the correct interpretation of the drawings provided. In the case where Nextgen Networks plant is outside a recognised road reserve Nextgen Networks recommends that the **Network Help Desk** is contacted for assistance prior to engaging an Experienced Plant Locator.

For the assistance of customers Nextgen Networks has established strict criteria to assess the skill of contractors that may be engaged by owners requiring Nextgen Networks plant locating services to perform any of the following activities if requested to do so by the owners:

Review Nextgen Networks plans to assess the approximate location of Nextgen Networks plant
 Advise owners of the approximate location of Nextgen Networks plant according to the plans
 Advise the owners of the best method for locating Nextgen Networks plant
 Advise owners of the hazard of unqualified persons attempting to find the exact location of Nextgen Networks plant and working in the vicinity of Nextgen Networks plant without first locating its exact position
 Perform trial hole explorations by vacuum excavation (pot-holing) to expose Nextgen Networks plant with a high degree of skill, competence and efficiency and utilising all necessary safety equipment

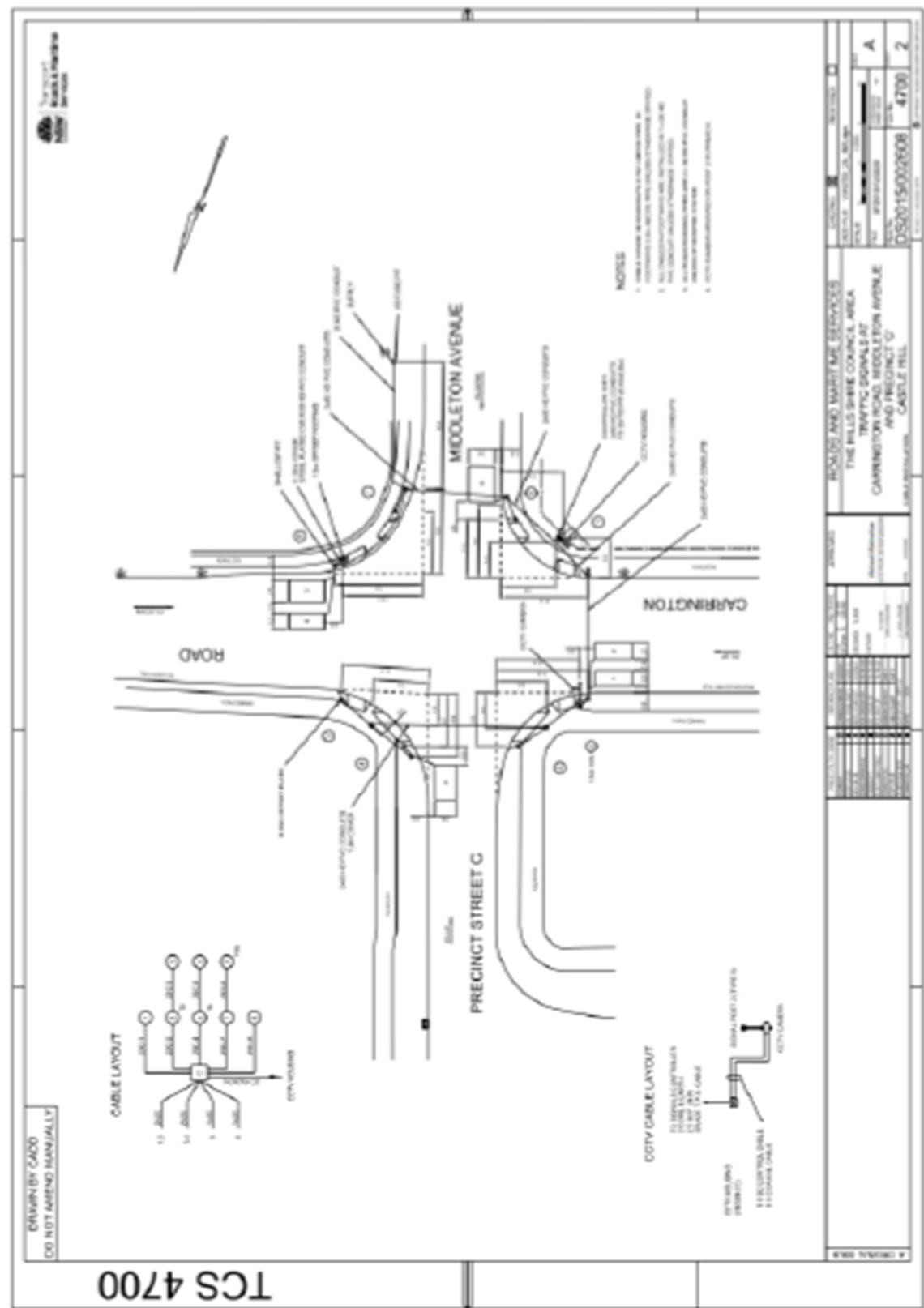
Nextgen Networks does not accept any liability or responsibility for the performance of or advice given by any Plant Locator engaged by you but we will, if requested, recommend suitably qualified plant locators.

GENERAL DISCLAIMER

While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Nextgen or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

4.8 TRANSPORT FOR NSW

Figure 4.8 Transport for NSW Plan (Traffic Signals at Carrington Rd, Middleton Ave)



Spatial Services

Protecting survey marks

Information Sheet



May 2023

What are survey marks?

Survey marks support billions of dollars of investment, property rights and infrastructure. There are many types of survey marks used for various purposes.

Survey marks – what to look for



Paint

Yellow or white paint on the mark, or surrounding features.



Identification plates

Identification plates in rural areas help to locate permanent survey marks.



Star picket

Painted star pickets in rural areas may indicate a survey mark in the vicinity.



Reference Tree

A blazed tree may indicate a permanent mark or a cadastral boundary corner is located nearby. It is most common in rural areas.



Alignment marks

Alignment stones, posts, pins and old stone kerbs are important cadastral marks.

Types of survey marks

Permanent survey marks

Permanent survey marks are fundamental marks that define location for surveying, mapping and engineering projects. Uses include housing developments, new road and bridge construction, improving railways and environmental mapping.



Trig Station



Permanent Mark



Star Survey Mark

Cadastral (Boundary) Marks

Cadastral marks are used to mark property corners. Cadastral Reference marks also define property boundaries and are buried approx 100-200mm deep, or placed in the footpath, kerb or gutter.



Concrete Block references boundary corner (peg)



Galvanised Iron Pipe references boundary corner



Drill Hole & Wing in Kerb references adjacent boundary corner



Alignment Pin references road alignment

Why protect survey marks?

Survey marks provide a wealth of important information to a wide range of people in the community. They are used to support the surveying of property boundaries, but are also important to engineering, road building, mapping and other land surveys. The loss of survey marks can significantly degrade the integrity of the legal property boundaries and impact on the costs of development projects that depend on position and height.

How survey marks are lost?

Over the last decade in excess of \$1 million worth of permanent survey marks have been destroyed in NSW per year*. This does not include the loss in value of destroyed cadastral marks or the lost value to the community and industry that survey marks provide. Survey marks are usually destroyed by development activity, particularly:

- road works and footpath construction
- roadside slothing
- shopping mall developments
- street beautification projects
- underground utility upgrade or replacement
 - gas
 - water
 - electricity
 - telecommunication cable installation.

* Based upon cost of mark placement and survey

Survey marks may need to be removed

As a result of construction or development works it may be necessary to remove some survey marks.

There are procedures in place for times when a survey mark has to be removed or replaced. The Surveyor-General has guidelines for the replacement of survey marks. See [Surveyor-General's Directions No. 11 Preservation of Survey Infrastructure on the Spatial Services website](#).



How to protect survey marks?

1. Before Works Commence

Find out if there are survey marks located in the area of interest by:

- 1.1. Viewing the Permanent Survey Mark layer on SDX Maps - maps.six.nsw.gov.au and print the map showing location of survey marks.
- 1.2. Downloading the [Permanent Survey Mark Locality Sketches](#).
- 1.3. Conducting a thorough search of plans on public record (e.g. Deposited Plans) to determine the location of cadastral reference marks. It is recommended a Registered Land Surveyor or a person under their supervision to undertake this task. A registered surveyor should be consulted as early as possible (at the planning stage).
- 1.4. Inspect the site paying particular attention to survey marks located in the footpath, kerb or gutter.
- 1.5. If no survey marks are affected by the proposed works then commence works.

2. If any survey marks could be affected by the works, e.g. disturbed or removed

- 2.1. Submit an [Application for Surveyor General Approval - Survey Marks Removal](#).
- 2.2. If only Permanent Survey Marks are affected, a declaration made by a Registered Land Surveyor stating that no Reference Marks are affected needs to be submitted with the application.
- 2.3. Allow 10 working days for a formal response.
- 2.4. Where required contact a registered surveyor to assist with the conditions of approval.

3. Protect survey marks

- 3.1. Comply with the conditions of the approval, place new marks and arrange a survey where required.
- 3.2. Protect adjacent marks from disturbance for the duration of the works. Note that up to 3 weeks may be needed to complete the survey (dependent on the complexity).

Penalties for disturbing survey marks

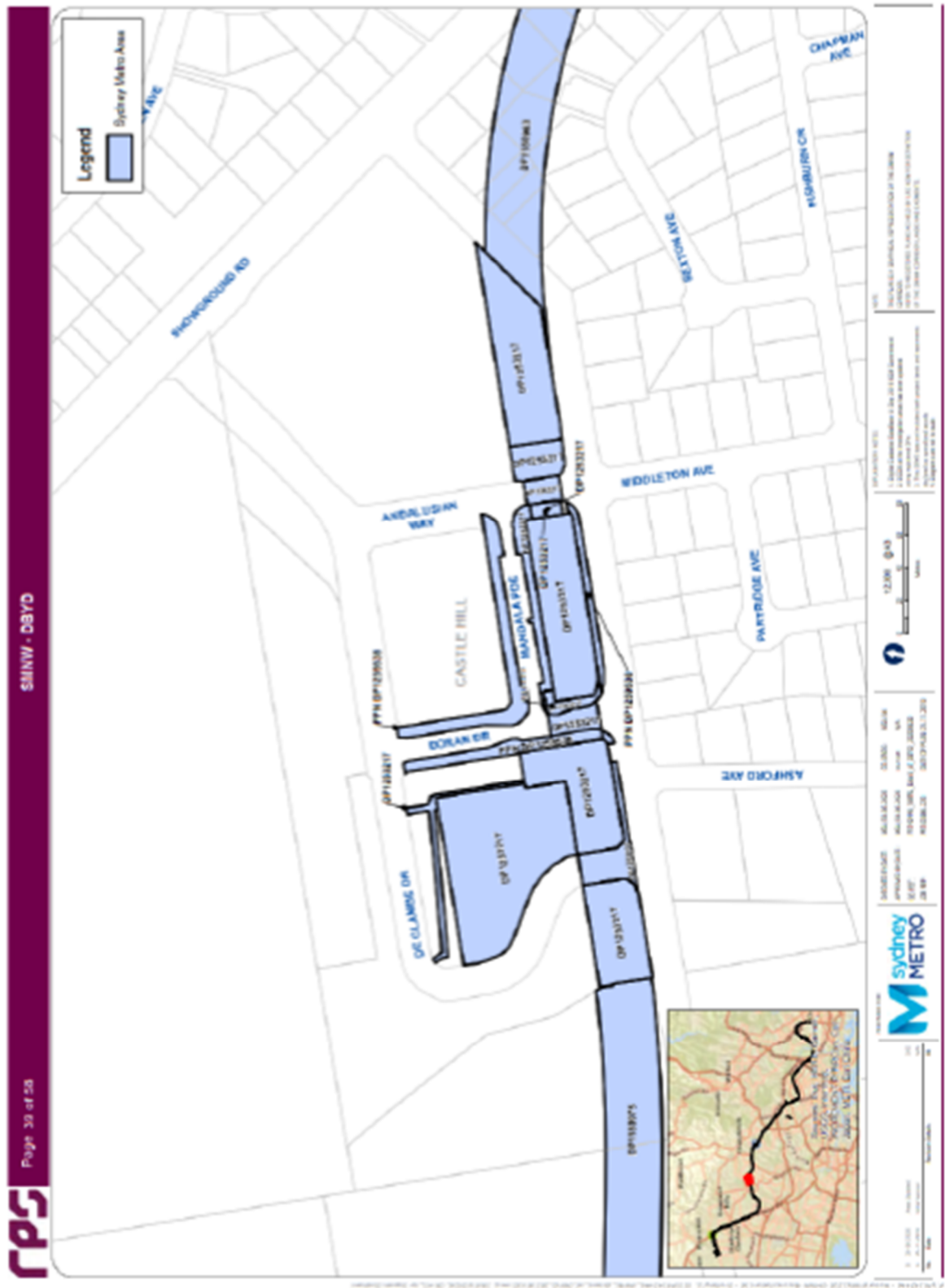
The unauthorised removal, disturbance or destruction of survey marks is costly to the community. Section 24(1) of the Surveying and Spatial Information Act 2002 states a person must not remove, damage, destroy, displace, obliterate or deface any survey mark unless authorised to do so by the Surveyor-General. In addition to a maximum penalty of 25 penalty units (currently \$10 per penalty unit) a person found guilty by a court may be ordered to pay compensation up to \$10,000 towards the cost of reinstatement and up to \$10,000 towards loss or damage suffered.

For any enquiries contact [DCS Spatial Services](#).

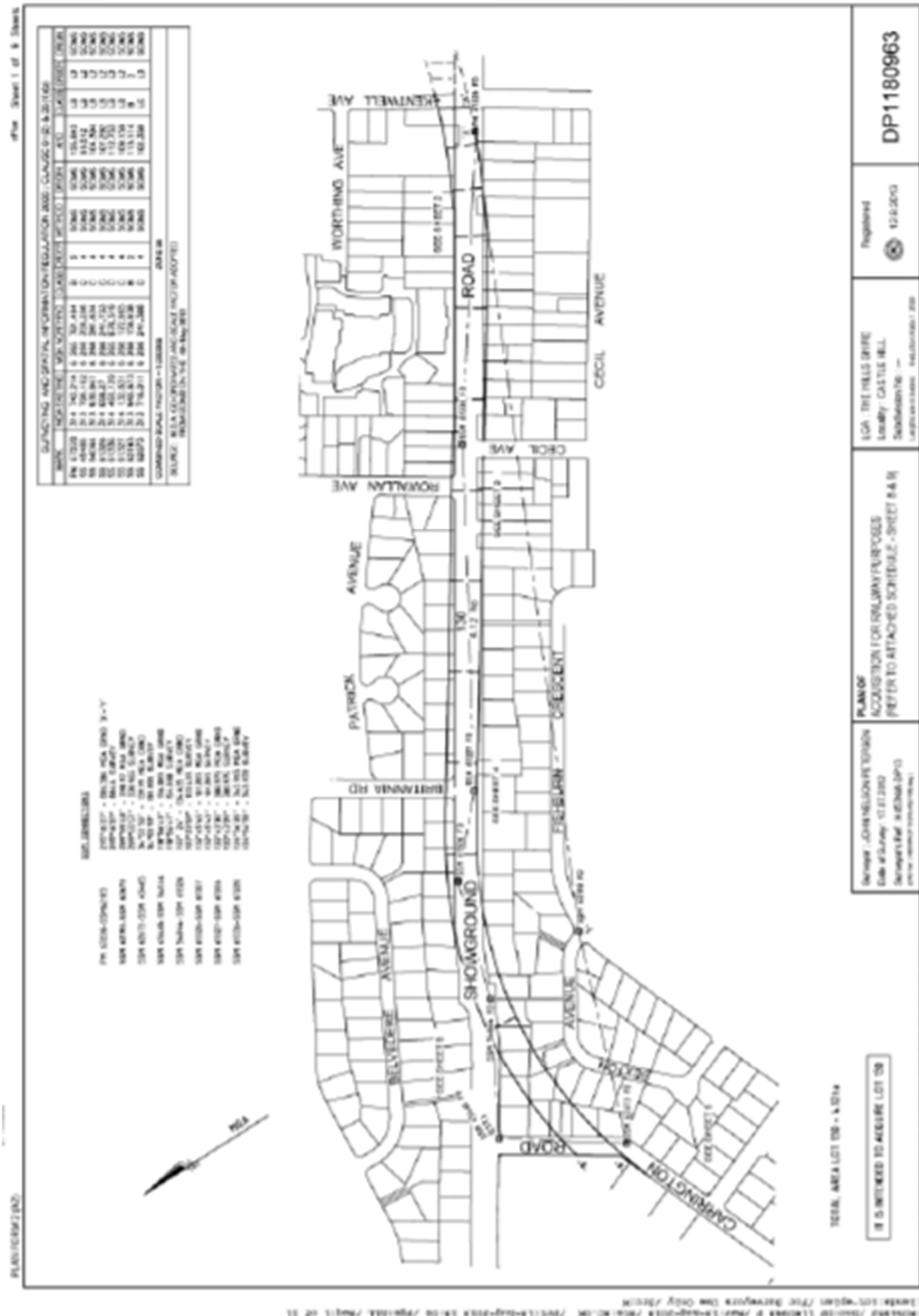
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Author: DCS NSW Spatial Services













SYDNEY METRO
L43, 680 George St
Sydney NSW 2000

smnwebd@transport.nsw.gov.au

Emergency only (24hrs)

02 8854 4805

Dear Sir / Madam,

Dial Before You Dig – Potential impact on Sydney Metro assets

Thank you for your Dial Before You Dig enquiry. We have identified that Sydney Metro assets are located in the vicinity of your enquiry. These assets may include:

- Station structures
- Viaduct structures
- Rock anchors
- Bridges
- Pedestrian underpasses
- Commuter carparks
- Pedestrian shelters
- Electrical, CCTV and communication services
- Fire and water main connections
- Paved plaza areas managed by Sydney Metro

Depending upon the location of your enquiry you may also receive separate notification of other Sydney Metro assets that may also be impacted.

Persons undertaking works outside of the Rail Corridor, but within the vicinity, may be subject to requirements including those detailed in the State Environmental Planning Policy (Infrastructure), Rail Safety National Law and the Industry Code of Practice for Work Near Overhead Power Lines. Guidelines regarding works in the vicinity of Sydney Metro corridors can be found by searching the document library at www.sydneymetro.info for "Corridor Protection".

Accordingly, please make contact with Sydney Metro prior to commencing any of the following works:

- Excavation works greater than 2m in depth within 25m of the Rail Corridor;
- Adjustments to drainage infrastructure to which Sydney Metro may be connected;
- Any works which would involve use of a crane, excavator or other item of construction plant which could approach within 3m of the Rail Corridor under normal operation or in the case of plant failure or collapse;
- Installation of structures within 8m of the Rail Corridor;
- Landscaping works within 8m of the Rail Corridor which includes installation of plants which would have a mature height exceeding 2m; or
- Works which may have an adverse effect on rail safety, or impede Rail Corridor access.

Where the Rail Corridor is defined by the property boundary of the rail corridor lot(s) as shown on the plans attached to this letter.

ATTENTION

- Sydney Metro is an operating railway utilising fully automated electric trains. Access to the rail corridor is not permitted under any circumstances without written authority from the operator, Metro Trains Sydney
- If you are planning on carrying out any works within the rail corridor separate approvals apply, which are in addition to those identified in this letter.
- For any planned works within the rail corridor, please contact Metro Trains Sydney on mispossessions@metrotrains-sydney.com.au

The general arrangement of any assets are shown on the attached plan(s). These plans are provided subject to the provisions set out below:

- Any reliance placed on these plans by you is entirely at your risk. You must undertake your own investigations and enquiries to confirm the exact locations of underground assets.



- Sydney Metro is not responsible for any loss suffered by you or any other party (including indirect or consequential loss) in connection with the provision of these plans, however that loss may arise (including losses arising as a result of negligence by Sydney Metro and/or its employees, officers, consultants and contractors).
- Whilst Sydney Metro has taken all reasonable steps to ensure that the information contained in the indicative plans is as accurate as possible, Sydney Metro gives no guarantee, warranty or undertaking as to the accuracy, currency, adequacy, suitability or completeness of the plans and does not assume any duty of care to you or any third party nor accept any liability for inaccuracies in the information shown on these plans.

You must:

- provide Sydney Metro with appropriate information to accurately describe the proposed works in accordance with the relevant Sydney Metro Corridor Protection Guidelines and allow sufficient time to accommodate adjustments to meet Sydney Metro's requirements;
- not modify the nature or extent of works in the vicinity of the Sydney Metro assets without prior notification to, and confirmation of no objection by, Sydney Metro;
- exercise due care and take all reasonable precautions in the vicinity where assets are indicated to avoid destroying, damaging or interfering with Sydney Metro assets and infrastructure;
- not relocate, alter or interfere with any Sydney Metro assets or infrastructure under any circumstances;
- immediately notify Sydney Metro of any damage or threat of damage to its infrastructure that occurs as a result of your work, by calling the emergency contact number 02 9854 4805; and
- ensure information provided in this response is printed and available on-site at all times throughout your construction phase.

Due to the inherent dangers associated with excavation in the vicinity of underground assets and infrastructure, precautions should be taken in the undertaking of any excavation or underground works, including, but not limited to the following:

- all personnel must be properly briefed, particularly those associated with the use of earthmoving equipment, trenching, boring and pneumatic equipment; and
- all excavations by you must be undertaken in accordance with all relevant laws and regulations including, in accordance with but not limited to, Work Cover NSW "Work near underground assets: Guide" and Work Cover NSW "Excavation work: Code of practice".

You will be held responsible for any damage to Sydney Metro's assets or other loss caused (including consequential loss) as a result of works by you or on your behalf.

Please contact Sydney Metro via email smrwdbyd@transport.nsw.gov.au if you require further information.

The provision of these drawings does not provide approval for your proposed works or diminish your obligations under NSW legislation. This includes the requirement to contact Sydney Metro prior to any work commencing to discuss necessary safety and design aspects as detailed above.

Yours sincerely,

Sydney Metro



SYDNEY METRO
Level 43, 660 George Street
Sydney
NSW 2000 Australia
smnwedbyd@transport.nsw.gov.au

Emergency (24hrs) (2) 9154 4805

Dear Sir / Madam,

Dial Before You Dig – Potential impact on tunnel assets.

Thank you for your Dial Before You Dig enquiry. Sydney Metro has identified underground tunnel assets in the vicinity of the enquiry location. These assets may include, but are not limited to running tunnels, cross passages, cross over caverns and associated services.

Please be aware that damage to these assets could cause serious injury or death as well as major disruption to Sydney Metro rail infrastructure.

A subsurface property stratum has been registered with the Land and Property Information office which describes the space in both plan and reduced level within which the tunnel assets are located. A copy of the relevant stratum plan is attached. The plan is provided subject to the provisions set out below.

- The actual depth of existing tunnel assets may vary significantly from the location shown on the attached plans as a result of changes to road, footpath or surface levels subsequent to installation.
- Any reliance placed on these plans by you is entirely at your risk. You must undertake your own investigations and enquiries to confirm the exact locations of underground assets.
- Sydney Metro is not responsible for any loss suffered by you or any other party (including indirect or consequential loss) in connection with the provision of the plan, however that loss may arise (including losses arising as a result of negligence by Sydney Metro and/or its employees, officers, consultants and contractors).
- Whilst Sydney Metro has taken all reasonable steps to ensure that the information contained in the plan is as accurate as possible, Sydney Metro gives no guarantee, warranty or undertaking as to the accuracy, currency, adequacy, suitability or completeness of the plan and does not assume any duty of care to you or any third party nor accept any liability for inaccuracies in the information shown on these plans.
- Sydney Metro's plans are frequently updated. The attached plans are valid for 6 months from date of issue.

You must review the attached plan(s) to ensure that any proposed works by you are not in conflict with Sydney Metro's assets.

The potential to impact the tunnels will depend upon the nature of works proposed. You must contact Sydney Metro prior to carrying out any works if any of the following apply:

1. your proposed excavation is greater than 2 metres below existing ground level (this includes trenching, bore holes, piles and similar ground penetrations) and is located above or within the property stratum; or
2. significant additional loads are to be placed over the stratum area whether temporarily or permanently; or
3. significant vibration (i.e. driving piles) is to occur over or in the vicinity of the stratum.



In the event that the proposed works trigger any one of the above conditions:

- do not commence works;
- contact Sydney Metro via email simnwtbys@transport.nsw.gov.au;
- provide sufficient information to Sydney Metro to enable accurate review of the proposed work; and
- await positive confirmation from Sydney Metro that the works are allowed to proceed.

Any further information you may require can be requested during this contact.

You must:

- provide Sydney Metro with information about the proposed works with sufficient time to allow for adjustments to meet Sydney Metro's requirements;
- not modify the extent of work in the vicinity of the tunnels without prior notification to Sydney Metro;
- exercise due care and take all reasonable precautions in the vicinity where underground assets are indicated to avoid destroying, damaging or interfering with Sydney Metro assets and infrastructure;
- not relocate or alter any Sydney Metro tunnel assets or infrastructure under any circumstance;
- immediately notify Sydney Metro of any damage or threat of damage to its infrastructure that occurs as a result of your work, by telephoning the emergency contact number 1800 019 889; and
- ensure information provided in this response is printed and remains available on-site at all times throughout your construction phase.

Due to the inherent dangers associated with excavation in the vicinity of underground tunnel assets, precautions should be taken in the undertaking of any excavation or underground works, including, but not limited to the following:

- all personnel must be properly briefed, particularly those associated with the use of earthmoving equipment, trenching, boring and pneumatic equipment; and
- all excavations by you must be undertaken in accordance with all relevant laws and regulations including, in accordance with but not limited to, Work Cover NSW "Work near underground assets: Guide" and "Work Cover NSW "Excavation work: Code of practice".

You will be held responsible for any damage to any of Sydney Metro's assets or infrastructure or other loss caused (including consequential loss) as a result of excavation or earthworks by you or on your behalf.

The provision of the attached drawing/s does not provide approval for your proposed works or diminish your obligations under NSW legislation. This includes the requirement to contact Sydney Metro prior to any work commencing which could affect our assets to discuss necessary safety and design aspects as detailed above.

Yours sincerely,

Sydney Metro

Hi,

Metro Trains Sydney operates underground *High Voltage, Low Voltage, Mechanical Assets* within your defined work area.

These assets **MUST** be located and identified, by an MTS Approved Location Company, **BEFORE ANY** excavation works begin.

If you require further information, please email dbyd@metrotrains-sydney.com.au.

Cheers,

Electrical Network Manager
Metro Trains Sydney Pty Ltd
47 Tallawong Road
Rouse Hill NSW 2155

BEFORE YOU DIG AUSTRALIA
Call 1100
35 Railway Rd, Blackburn VIC 3130

Please be advised the person below has requested information about underground assets in your jurisdiction. You are required to respond within 2 working days and reference the Job Number, Sequence Number and the User Reference (where supplied).



Table 4.7 Hills Shire Council Assessment

Element	Assessment
Authority	Hills Shire Council Stormwater Infrastructure
Impact to Development	Existing stormwater infrastructure reticulates along the Northwestern boundary in the intersection of Carrington Road and Middleton Avenue with a kerb inlet pits and Junction pits.
Action to Existing	Nil.
Proposed Upgrades	It is proposed to connect the discharge of the proposed development to the existing stormwater infrastructure at the intersection of Carrington Road and Middleton Ave.

5.0 INFRASTRUCTURE DELIVERY AND STAGING PLAN

For the Proposed Development, all essential infrastructure services, including potable water, wastewater, electricity, gas, and telecommunications, will be augmented accordingly and subject authority applications and design.

Servicing strategy and consultation with relevant service providers shall be undertaken as part of the proposed development where required. Given the compressed area of the development and its distance from the Chatswood Central Business District (CBD), major interruptions to services are unlikely, effectively negating the necessity for extensive staging.

Consultation with the residents in the local area shall be an integral part of the process as well as giving sufficient notice as well as maximum periods of any proposed shutdowns and shall be aligned with the construction program.