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Development Site

2 Farrow Road Campbelltown

Infrastructure Services Report

Prepared for: Hyside Projects Subone Pty Ltd

Acor Project Reference – NSW20-00221

Document Reference: 2 Farrow Rd_Campbelltown_ISR_001

Date : 20th April 2020

Issue no: Revision D

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REVISIONS

Revision	Date	Purpose	Prepared By	Approved By
A	24/02/20	For client review	RRG	RRG
B	24/02/20	For Client Issue	RRG	RRG
C	09/03/20	Sydney Water Pressure and Flow included	RRG	RRG
D	20/04/20	Amended to suit commercial uplift	RRG	RRG

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1 EXECUTIVE SUMMARY

ACOR Consultants Pty Ltd has been engaged by Hyside Projects Subone Pty Ltd to provide Infrastructure Services Report for the proposed development site located at 2 Farrow Road, Campbelltown, NSW

This report is adjunct to SJB Urban “Northern Precinct Vision – Consultant Briefing Information Revision Dated 3rd of February 2020 and Commercial uplift amendments received 16th of April 2020

The major goal of this document is to consider the proposed Building Development site and the availability and capacities of the relevant supply authority services, so as to allow the design and construction of a fully operational and fit for purpose mixed use facility.

This report will discuss

- Availability of existing authority supply infrastructure for the proposed building(s) connections.
- Adequacy of existing authority supply infrastructure to support proposed building(s)

This report does not address:

- Road networks, Traffic and Carparking
- Site flooding, overland flow and stormwater (Refer Campbelltown City Council Floodplain Risk Management Study)
- Geotechnical ground conditions.

1.1 Site Services Infrastructure Assessment

Proposed construction of seven (7) new multi storey mixed use buildings, on a 2.81 Hectare site, containing residential apartments, retail, commercial, community facilities / park, carparking, private open space,

The proposed new buildings will have an effective height of more than 25m (20 to 36 Storeys) and will generally operate as “Stand Alone” buildings with common supply authority infrastructure connections.

Supply Authority infrastructure services adequacy is summarized within the table below:

Subject to future detailed assessment, building loading calculations and formal supply authority applications.

HYDRAULIC SERVICES

Refer also Appendix for Infrastructure Drawings

Description	Sewer Sydney Water	Water Supply Sydney Water	Natural Gas Jemena	Stormwater Drainage Campbelltown City Council.
Authority Site Infrastructure mains available for connection	525mm concrete sewer main traversing the site adjacent to the northern Boundary (Approximately 2m). 1050mm concrete sewer main traversing the site adjacent to the northern Boundary (Approximately 12m) 300mm to 400mm SGW sewer main traversing the site adjacent to the southern Boundary Multiple connection points provided Building over and adjacent to Sydney Water asset conditions would apply	150mm DICL water main on north side of Farrow Road Min Pressure=63m/h Max Pressure=76m/h Max permissible flow = 67l/sec @48m/h 300mm CICL water main on west side of Badgally Road Min Pressure=64m/h Max Pressure=78m/h Max permissible flow =120l/sec @52m/h	100mm ST 1050Kpa natural gas supply main located on north side of Farrow Road, 1.2m from site southern boundary 150mm ST 1050Kpa natural gas supply main located on west side of Badgally Road, 1.0m to 5.0m from site eastern boundary	Channelized Bow Bowing Creek located adjacent to the site northern boundary.
Authority Services Capacity limits	Considered Adequate Section 73 Application to Sydney Water will be required upon receipt of development approval.	Adequate for domestic water usage and fire fighting purposes. Subject to connection approval by Sydney Water under Section 73 application.	Adequate subject to Jemena final gas load requirements and connection approval	Considered adequate subject to implementation of design and construction measures to ensure resilience against flooding and limit outflow discharge flow rates to minimize flood impact to downstream properties. Final design subject to Campbelltown City Council stormwater management and water quality policy.
Condition and Reliability of Authority Infrastructure	Fair No reports of major breakdown on unreliability	Fair No reports of major breakdown on unreliability	Good No reports of major breakdown on unreliability	Fair No reports of major breakdown on unreliability.

ELECTRICAL AND COMMUNICATION SERVICES

Refer also Appendix for Infrastructure Drawings

Description	Electricity Endeavour Energy	Communications Provider NBN	Communications Telstra	Communications Optus
Authority Site Infrastructure mains available for connection	High Voltage supply network located adjacent to subject site on Farrow Road and Badgally Road. Existing pad mount sub station 1032 located within south site boundary Existing pole mount substation 18286 located adjacent to south west corner of the site.	NBN network cabling located on north side of Farrow Road 300mm CICL water main on west side of Badgally Road	Telstra assets and Pipe Networks assets (contained within Telstra pipe ducts are located	Network underground cabling located on west side of Badgally Road adjacent to the eastern boundary of the subject site
Authority Services Capacity limits	Considered Adequate Subject site will require design and construction of new incoming electrical supply network and new substation(s) to support the proposed development	Considered Adequate	Considered adequate subject to formal application and approval..	Considered adequate
Condition and Reliability of Authority Infrastructure	Fair No reports of major breakdown on unreliability	Good No reports of major breakdown on unreliability	Fair No reports of major breakdown on unreliability	Fair No reports of major breakdown on unreliability.

2 Introduction

ACOR Consultants Pty Ltd has been engaged by Hyside Projects Subone Pty Ltd to provide Infrastructure Services Report for the proposed development site located at 2 Farrow Road, Campbelltown, NSW

This report is adjunct to SJB Urban "Northern Precinct Vision – Consultant Briefing Information Revision Dated 3rd of February 2020 and Commercial uplift amendments received 16th of April 2020

The major goal of this document is to consider the proposed Building Development site and the availability and capacities of the relevant supply authority services, so as to allow the design and construction of a fully operational and fit for purpose mixed use facility.

This report will consider:-

- Supply Authority mains availability and capacity, including:-
 - Sewerage
 - Stormwater Drainage
 - Water Supply
 - Electrical Supply
 - Gas Supply
 - Communications

This report is based on:

- SJB Urban "Northern Precinct Vision – Consultant Briefing Information Revision 4 Dated 3rd of February 2020
- Commercial uplift amendments received 16th of April 2020
- Liaison with relevant Supply Authorities including:-
 - Campbelltown City Council
 - Endeavour Energy
 - Jemena Gas West
 - NBN Co
 - Nextgen
 - Optus
 - PIPE Networks
 - Sydney Water
 - Telstra

3 URBAN CONTEXT

The subject site, 2 Farrow Road, is located due north of the Campbelltown train station and bus interchange. It is framed by Badgally Road to the north east, Farrow Road to the south east, 4 Farrow Road to the south west (council owned land) and Bow Bowing Creek to the north west.

The site is located on the northern side of the rail infrastructure and as such, is somewhat disconnected from Campbelltown town centre itself with the two nearest crossing points being Campbelltown Road and Narellan Road to the north and south respectively (with the exception of the pedestrian footbridge within the station).

The wider surrounding area generally offers a mixture of light industrial / warehousing / car parking uses with good access to major vehicular infrastructure in the near vicinity.

Northern Precinct site area: approx. 176,122 sqm / 17.6 Ha

Key

- Study Area Boundary
- Planning Proposal Site Boundary
- ↔ Rail Infrastructure
- ↔ Significant Road Infrastructure
- 'Future Transport Link' (as identified by Council)



4 PRECINCT PLAN

'The Campbelltown Precinct is bounded by the Hume Highway to the north, including the suburb of Blair Athol, Narellan Road to the west, George Street to the south and a significant drainage corridor to the east. The boundary of the precinct is based on a radius of 800m–1.5km from Campbelltown Station, which represents a 10–20 minute walking trip.'

The precinct is the major business and cultural centre for the region, with a mix of commercial, cultural, retail, civic and residential land uses. Campbelltown is one of the important centres of the West that will grow and become the Western City, with links to the new Western Sydney Airport. Queen Street is the focus of retail and commercial development in the precinct, with mixed-use and commercial development varying greatly between single storey shop fronts to multi-storey buildings with a range of retail and commercial uses.'

Source: NSW DPIE - Campbelltown Precinct

Within this NSW DPIE strategic document, the subject site is considered to be appropriate for High Rise Residential (of 7 storeys and over) which is in contrast to Council's current Local Environmental Plan (see later in this document). A 'Potential Connection' is also suggested which aligns with Badgally Road / Broughton Street and a provides a local connection over the existing railway infrastructure directly adjacent to the site.



5 SITE CONTEXT

The subject site is located at 2 Farrow Road, Campbelltown.

The current single storey warehouse building covers approximately 50% of the site area, with the remainder generally providing informal surface car parking. There are two significant stands of existing trees along the north west and north west boundaries with a few other additional specimens along the Farrow Road boundary.

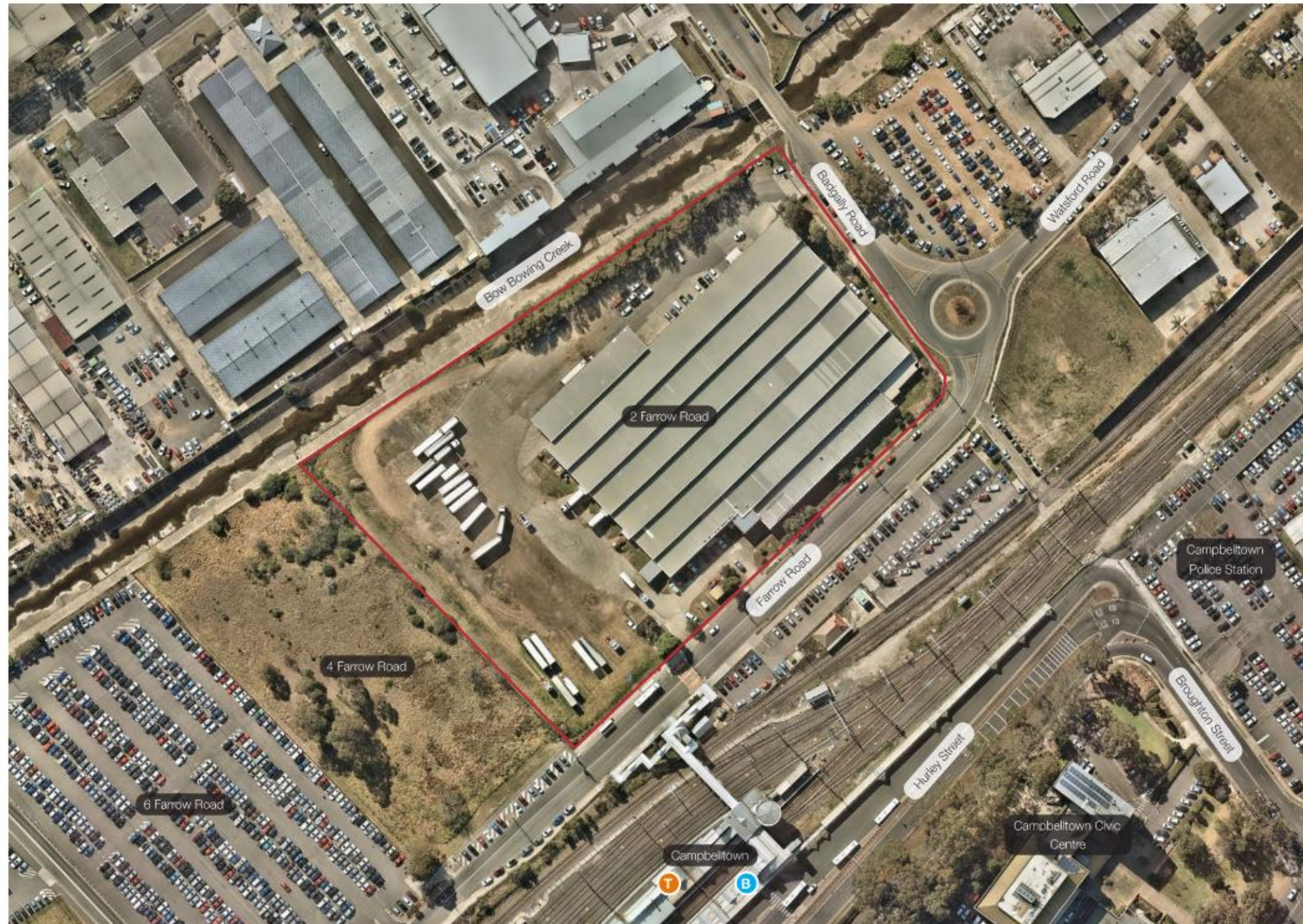
There are two existing vehicular (and pedestrian) entry points on Badgally and Farrow Roads.

Bow Bowing Creek (to the north west) is currently channelised in the immediate vicinity of the site but is naturalised to the south. In its current condition, it provides no ecological value to the existing network of open spaces and waterways.

The site topography is generally flat with a slight fall from Farrow Road towards Bow Bowing Creek of between 1.2 and 3 metres.

Campbelltown Railway Station to the south of the site is listed as a heritage item.

Subject site area: approx. 28,122 sqm




6 INDICATIVE MASSING

2 Farrow Road			
	GFA	Change	%
Site	28,110		
Residential	129,931	+649	83.7%
Retail	2,890	-	1.9%
Commercial	17,273	+14,833	11.1%
Community	5,192		3.3%
School	-		-
Site Total & FSR	155,286	+15,032	5.52:1



7 DIAL BEFORE YOU DIG APPLICATIONS

7.1 OVERVIEW



Job No 18998095

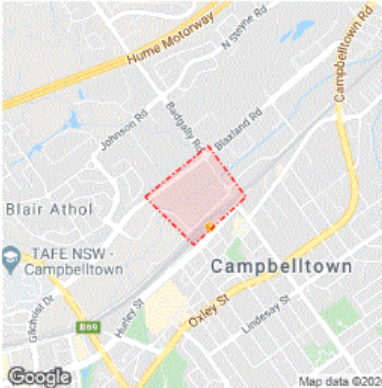
Phone: 1100
www.1100.com.au

Caller Details

Contact: Ms Jamie-Lee MacDonald	Caller Id: 1716691	Phone: 02 94385098
Company: ACOR WSC Consultants Pty Ltd	Mobile: Not Supplied	Fax: Not Supplied
Address: PO BOX 292 St Leonards NSW 2065	Email: JMacDonald@acor.com.au	

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



User Reference: Not Supplied

Working on Behalf of: Private

Enquiry Date: 07/02/2020

Start Date: 29/02/2020

End Date: 21/03/2020

Address: 2 Farrow Road
Campbelltown NSW 2560

Job Purpose: Excavation

Location of Workplace: Both

Onsite Activity: Manual Excavation

Location in Road: CarriageWay, Footpath, Nature Strip

• Check the location of the dig site is correct. If not submit a new enquiry.

• If the scope of works change, or plan validity dates expire, resubmit your enquiry.

• Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

Notes/Description of Works:

Your Responsibilities and Duty of Care

- The lodgement of an enquiry does not authorise the project to commence. You must obtain all necessary information from any and all likely impacted asset owners prior to excavation.
- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you **MUST** advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.1100.com.au
- For more information on safe excavation practices, visit www.1100.com.au

Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days. Additional time should be allowed for information issued by post. It is **your responsibility** to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Dial Before You Dig service, so it is **your responsibility** to identify and contact any asset owners not listed here directly.


** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.

Asset owners highlighted with a hash require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
94589253	Campbelltown City Council	0246454638	NOTIFIED
94589261	Endeavour Energy	0298534161	NOTIFIED
94589265	Jemena Gas West	1300880906	NOTIFIED
94589267	NBN Co, NswAct	1800626329	NOTIFIED
94589257	Nextgen, NCC - NSW	1800032532	NOTIFIED
94589264	Optus and/or Uecomm, Nsw	1800505777	NOTIFIED
94589258	PIPE Networks, Nsw	1800201100	NOTIFIED
94589255	Roads and Maritime Services	0288370285	NOTIFIED
94589266	Sydney Water	132092	NOTIFIED
94589262	Telstra NSW, Central	1800653935	NOTIFIED

END OF UTILITIES LIST

7.2 CAMPBELLTOWN COUNCIL



Sequence No 94589253

Phone: 1100
www.1100.com.au

Utility Details


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).

To: Mr Ajay Arora	Enquiry Date: 07/02/2020
Utility ID: 11500	Priority Type: Normal
Utility Name: Campbelltown City Council	Enquiry Medium: Web
Email: DBYDreferrals@campbelltown.nsw.gov.au	

Caller Details

Caller Id: 1716691	Phone: 02 94385098
Contact: Ms Jamie-Lee MacDonald	Mobile: Not Supplied
Company: ACOR WSC Consultants Pty Ltd	Fax: Not Supplied
Address: PO BOX 292 St Leonards NSW 2065	Email: JMacDonald@acor.com.au

Dig Site and Enquiry Details



WARNING: The adjacent map displays the extent of the proposed dig site as specified and confirmed by the DBYD customer.

User Reference: Not Supplied

Working on Behalf of: Private

Start Date: 29/02/2020

End Date: 21/03/2020

Address: 2 Farrow Road
Campbelltown NSW 2560

Nature of Works: Manual Excavation

Job Purpose: Excavation

Workplace Location: Both

Location in Road: CarriageWay, Footpath, Nature Strip

Large Scale: No

Map Ref: UbdSyd 346H2,346J1,346J2,346J3,346K1,346K2,346K3,346L1,346L2,346L3

Additional Work Site Notes:

END OF TRANSMISSION – v3.06

Job No 18998095

Lodge Your Free Enquiry Online – 24 Hours a Day, Seven Days a Week [NSW]

7.3 ENDEAVOUR ENERGY

If further clarification is required, please contact:
 Endeavour Energy
 Phone: (02) 9853 4161 (8:00am-4:30pm Mon-Fri)
Emergency Phone Number: 131 003



DBYD Underground Search Report Date: 10/02/2020

DBYD Sequence No: 94589267

DBYD Job No: 18998095

ENDEAVOUR ENERGY ASSETS AFFECTED

To:	Ms Jamie-Lee MacDonald	Company:	ACOR WSC Consultants Pty Ltd
Address:	PO BOX 292, St Leonards, NSW 2065		
Cust. ID:	1716691	Email:	JMacDonald@acor.com.au
Phone:	02 94385098	Mobile:	Not Supplied
		Fax:	Not Supplied
Enquiry Location: 2 Farrow Road, Campbelltown, NSW 2560			

Our Search has shown that **UNDERGROUND ASSETS ARE PRESENT** on our plans within the nominated enquiry location. This search is based on the graphical position of the excavation site as denoted in the DBYD customer confirmation sheet.

WARNING


- **All electrical apparatus shall be regarded as live until proved de-energised.** Contact with live electrical apparatus will cause severe injury or death.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (20) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location **may not** be shown on plans. Persons excavating are expected to exercise all due care, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans **do not** show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.
- All plans must be printed and made available at the worksite where excavation is to be undertaken. Plans must be reviewed and understood by the crew on site prior to commencing excavation.

SUPPLEMENTARY MATERIAL

Material	Purpose	Location
DBYD Cover Letter	Endeavour Energy DBYD response Cover Letter	Attached
DBYD Important Information & Disclaimer	Endeavour Energy disclaimer, responsibilities and information on understanding plans	Attached
DBYD Response Plans	Endeavour Energy DBYD plans	Attached
Work Cover NSW "Work near underground assets: Guide"	Guideline for anyone involved in construction work near underground assets	Contact Work Cover NSW for a copy
Work Cover NSW "Excavation work: Code of practice"	Practical guidance on managing health and safety risks associated with excavation	URL [Click Here]
Safe Work Australia "Working in the vicinity of overhead and underground electric lines guidance material"	Provides information on how to manage risks when working in the vicinity of overhead and underground electric lines at a workplace	URL [Click Here]
Endeavour Energy Safety Brochures & Guides	To raise awareness of dangers of working on or near Endeavour Energy's assets	URL [Click Here]

7.4 NATIONAL BROADBAND NETWORK

To: Ms Jamie-Lee MacDonald
 Phone: Not Supplied
 Fax: Not Supplied
 Email: JMacDonald@acor.com.au

Dial before you dig Job #:	18998095	 <div>DIAL BEFORE YOU DIG www.1100.com.au</div>
Sequence #	94589267	
Issue Date:	07/02/2020	
Location:	2 Farrow Road , Campbelltown , NSW , 2560	<div>Some impact. No onsite action required.</div>

Information

The area of interest requested by you contains one or more assets.

nbn Assets	Search Results
Communications	Asset identified
Electricity	Asset identified

In this notice **NBN Facilities** means *underground fibre optic, telecommunications and/or power facilities, including but not limited to cables, owned and controlled by nbn*

Location of Underground Power Facilities

We thank you for your enquiry. In relation to your enquiry at the above address:

- **nbn's** records indicate that there **ARE** **nbn** Facilities in the vicinity of the location identified above ("Location").
- **nbn** indicative plan/s are attached with this notice ("Indicative Plans").
- The Indicative Plan/s show general depth and alignment information only and are not an exact, scale or accurate depiction of the location, depth and alignment of **nbn** Facilities shown on the Plan/s.
- In particular, the fact that the Indicative Plans show that a facility is installed in a straight line, or at uniform depth along its length cannot be relied upon as evidence that the facility is, in fact, installed in a straight line or at uniform depth.
- You should read the Indicative Plans in conjunction with this notice and in particular, the notes below.
- You should note that, at the present time, the Indicative Plans are likely to be more accurate in showing location of fibre optics and telecommunications cables than power cables. There may be a variation between the line depicted on the Indicative Plans and the location of any power cables. As such, consistent with the notes below, particular care must be taken by you to make your own enquiries and investigations to precisely locate any power cables and manage the risk arising from such cables accordingly.
- The information contained in the Indicative Plan/s is valid for 28 days from the date of issue set out

Level 11, 100 Arthur Street, North Sydney NSW 2060
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Email info@nbn.com.au

Web nbn.com.au



above. You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators at your cost to locate **nbn** Facilities during any activities you carry out on site).

We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service. If you are planning to excavate and require further information, please contact **nbn** on 1800 626 329. For any enquiries related to moving assets or Planning and Design activities, please visit the **nbn** [Commercial Works](#) website to complete the online application form.

Notes:

1. You are now aware that there are **nbn** Facilities in the vicinity of the above property that could be damaged as a result of activities carried out (or proposed to be carried out) by you in the vicinity of the Location.
2. You should have regard to section 474.6 and 474.7 of the *Criminal Code Act 1995* (CoA) which deals with the consequences of interfering or tampering with a telecommunications facility. Only persons authorised by **nbn** can interact with **nbn's** network facilities.
3. Any information provided is valid only for **28 days** from the date of issue set out above.

Referral Conditions

The following are conditions on which **nbn** provides you with the Indicative Plans. By accepting the plans, you are agreeing to these conditions. These conditions are in addition, and not in replacement of, any duties and obligations you have under applicable law.

1. **nbn** does not accept any responsibility for any inaccuracies of its plans including the Indicative Plans. You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators at your expense to locate **nbn** Facilities during any activities you carry out on site).
2. You acknowledge that **nbn** has specifically notified you above that the Indicative Plans are likely to be more accurate in showing location of fibre optics and telecommunications cables than power cables. There may be a variation between the line depicted on the Indicative Plans and the location of any power cables.
3. You should not assume that **nbn** Facilities follow straight lines or are installed at uniform depths along their lengths, even if they are indicated on plans provided to you. Careful onsite investigations are essential to locate the exact position of cables.
4. In carrying out any works in the vicinity of **nbn** Facilities, you must maintain the following minimum clearances:
 - 300mm when laying assets inline, horizontally or vertically.
 - 500mm when operating vibrating equipment, for example: jackhammers or vibrating plates.
 - 1000mm when operating mechanical excavators.
 - Adherence to clearances as directed by other asset owner's instructions and take into account any uncertainty for power cables.
5. You are aware that there are inherent risks and dangers associated with carrying out work in the vicinity of underground facilities (such as **nbn** fibre optic, copper and coaxial cables, and power cable feed to **nbn** assets). Damage to underground electric cables may result in:
 - Injury from electric shock or severe burns, with the possibility of death.
 - Interruption of the electricity supply to wide areas of the city.
 - Damage to your excavating plant.
 - Responsibility for the cost of repairs.
6. You must take all reasonable precautions to avoid damaging **nbn** Facilities. These precautions may include 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 likelihood of damage to the cable, for example: the blades of hand equipment should be aligned parallel to the line of the cable rather than digging across the cable.

- If any undisclosed underground cables are located, notify **nbn** immediately.
 - All personnel must be properly briefed, particularly those associated with the use of earth-moving equipment, trenching, boring and pneumatic equipment.
 - The safety of the public and other workers must be ensured.
 - All excavations must be undertaken in accordance with all relevant legislation and regulations.
7. You will be responsible for all damage to **nbn** Facilities that are connected whether directly, or indirectly with work you carry out (or work that is carried out for you or on your behalf) at the Location. This will include, without limitation, all losses expenses incurred by **nbn** as a result of any such damage.
 8. You must immediately report any damage to **nbn**™ network that you are/become aware of. Notification may be by telephone - 1800 626 329.
 9. Except to the extent that liability may not be capable of lawful exclusion, **nbn** and its servants and agents and the related bodies corporate of **nbn** 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 (including Indicative Plans) attached hereto. Except as expressly provided to the contrary in this information sheet or the attached plans (including Indicative Plans), all terms, conditions, warranties, undertakings or representations (whether expressed or implied) are excluded to the fullest extent permitted by law.

All works undertaken shall be in accordance with all relevant legislations, acts and regulations applicable to the particular state or territory of the Location. The following table lists all relevant documents that shall be considered and adhered to.

State/Territory	Documents
National	Work Health and Safety Act 2011
	Work Health and Safety Regulations 2011
	Safe Work Australia - Working in the Vicinity of Overhead and Underground Electric Lines (Draft)
	Occupational Health and Safety Act 1991
NSW	Electricity Supply Act 1995
	Work Cover NSW - Work Near Underground Assets Guide
	Work Cover NSW - Excavation Work: Code of Practice
VIC	Electricity Safety Act 1998
	Electricity Safety (Network Asset) Regulations 1999
QLD	Electrical Safety Act 2002
	Code of Practice for Working Near Exposed Live Parts
SA	Electricity Act 1996
TAS	Tasmanian Electricity Supply Industry Act 1995
WA	Electricity Act 1945
	Electricity Regulations 1947
NT	Electricity Reform Act 2005
	Electricity Reform (Safety and Technical) Regulations 2005
ACT	Electricity Act 1971

Thank You,

Network Operations Centre - Assurance

Level 11, 100 Arthur Street, North Sydney NSW 2060
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Email info@nbn.com.au

Web nbn.com.au



Date: 07/02/2020

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7.5 NEXTGEN

Plant Location Details



07/02/2020

Ms Jamie-Lee MacDonald
ACOR WSC Consultants Pty Ltd
PO BOX 292
St Leonards NSW 2065
Phone: 02 94385098
Fax: Not Supplied

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

Dear Ms Jamie-Lee MacDonald

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

Assets Affected: No Assets Affected

Sequence No: 94589257

Location: 2 Farrow Road, Campbelltown NSW 2560

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 plant: 10 metres (for optic fibre cable)
 - e) Parallel to other plant: 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 DBYD to enable Nextgen Networks to respond to your DBYD 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 owner:

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.

7.6 OPTUS



Optus Contract Management Team
Unit 9, 677 Springvale Road
Mulgrave, Victoria, 3178

Date: 07/02/2020
To: Ms Jamie-Lee MacDonald
Company:
Address: PO BOX 292
St Leonards, NSW 2065

ENQUIRY DETAILS

Location: 2 Farrow Road, Campbelltown, NSW 2560
Sequence No.: 94589264
DBYD Reference: 18998095

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).

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 to list of Accredited Locators attached to this DYBD 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:

- Obtain location drawings (through the Dial Before You Dig process) of any existing Optus assets at a reasonable time before any planned works begin;
- 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
- Contact Optus for further advice where requested to do so by this letter.

DAMAGE TO ANY OPTUS ASSET MUST BE REPORTED TO 1800 500 253 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").

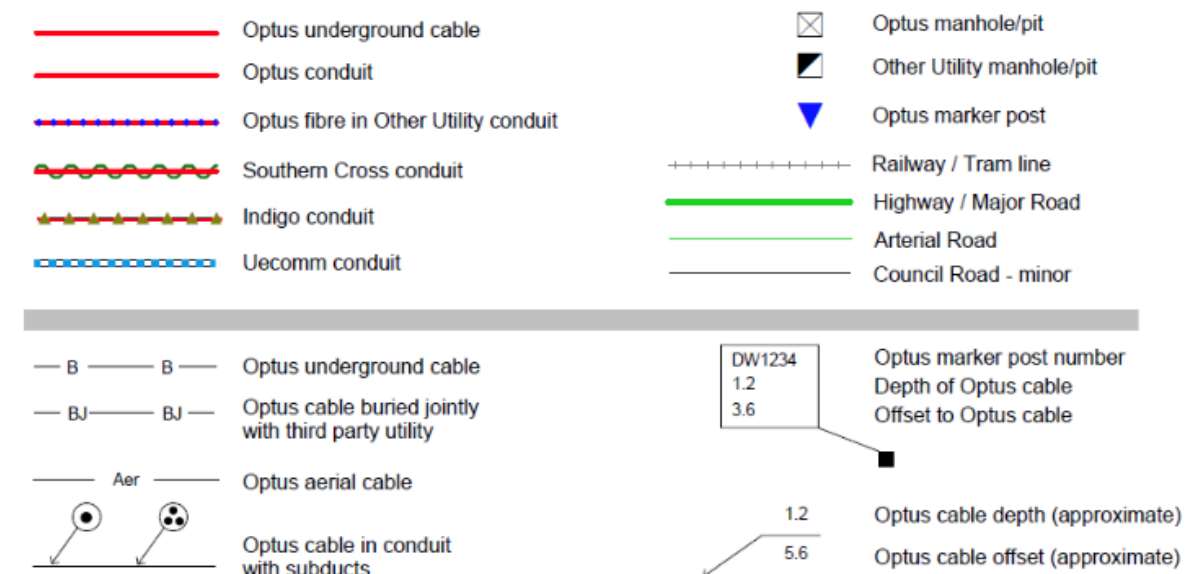
FURTHER ASSISTANCE

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:

NFODamages&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



7.7 PIPENETWORKS



Level 17, PIPE Networks House, 127 Creek Street, Brisbane 4000
PH: (07) 3233 9895 FAX: (07) 3233 9885

DBYD ENQUIRY RETURN:

PIPE Networks **DOES** own or operate telecommunications network infrastructure within the request area detailed above.

The affected network infrastructure is contained within the **Telstra** duct network and can be found listed on the appropriate **Telstra** duct Network plans.

THIS NETWORK IS VITAL TO OUR OPERATIONS AND AS SUCH, IT IS CRITICAL THAT **NO WORKS** COMMENCE WITHIN THE AREA UNTIL YOU HAVE RECEIVED AND APPRAISED THE TELSTRA DUCT PLANS FOR THIS AREA.

Due to continued network expansion, this network information can only be considered valid and accurate for 28 days from issue.

PIPE Networks will seek compensation for any damage to its network through negligence or ignorance of your duty of care.

PIPE NETWORKS
Ph (07) 3233 9895
Email: dbyd@pipenetworks.com
(for information specifically on this job only)

7.8 TELSTRA

Attention: Jamie-Lee MacDonald

Site Location: 2 Farrow Road, Campbelltown, NSW 2560

The attached files contain Telstra information relating to your recent Dial-Before-You-Dig request.

Please note:

When working in the vicinity of telecommunications plant you have a 'Duty of Care' that must be observed.

Please ensure you read the 'Telstra Duty of Care' document (attached) - it contains important information including essential steps that must be undertaken prior to commencing construction activities.

Ensure the Cable Locator you use can show you their current Telstra Accredited Plant Locator photo ID card - you may be liable for damage costs if unauthorised locators are used.

(mandatory requirements for Telstra Accredited Plant Locators include having appropriate training, equipment and having current insurance)

In particular Telstra wishes to advise -

- The actual location of any network assets may differ significantly from the position shown on the attached plans. (refer to the attached Telstra Duty of Care for further information on the accuracy of supplied information)
- Only Telstra Accredited Plant Locators with a current photo ID card are authorised by Telstra to access Telstra network for location purposes. (refer to the attached Telstra Duty of Care for further information)
- All Telstra assets, including underground network, must be validated (physically sighted and identified), prior to commencing any construction. (refer to the attached Telstra Duty of Care for further information)
- All Telstra assets once validated must be protected from damage. (refer to the attached Telstra Duty of Care for further information)

Telstra network is complex and requires expert knowledge to interpret information, to trace and identify components, to pothole underground assets for validation purposes and to safely work around assets without causing damage.

If you are not an expert and/or qualified in these areas then you should not be attempting these activities yourself.

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

If your project is dependent on the position of the underground network then it is recommended that you validate the position of the network prior to finalising your design. (refer to the attached Telstra Duty of Care for further information)

FURTHER INFORMATION - please copy and paste links into your internet browser.

For all Telstra DBYD map related enquiries -

- reply to this email (preferred method)
- or email - TAMS_Helpdesk@dominoapp.in.telstra.com.au

(see more contacts in the Telstra Duty of Care document attached)

For all Telstra asset relocation enquiries: 1800 810 443 <https://www.telstra.com.au/consumer-advice/digging-construction/relocating-network-assets>

All damages to Telstra Network must be reported immediately
<https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment>

Information for new developments (developers, builders, home owners) Telstra Smart Communities
<https://www.telstra.com.au/smart-community>

OPENING ELECTRONIC MAP ATTACHMENTS -

If you are unable to launch any one of the attached files for viewing and printing, you may need to download and install free viewing software from the internet e.g.

- PDF Map Files (max size A3)
- Adobe Acrobat Reader (<http://get.adobe.com/reader/>), or
- Foxit Reader (<http://www.foxitsoftware.com/downloads/>)

DWF Map Files (all sizes over A3)

If you have received a DWF map file it is because either (a) you have requested a large area or (b) requested a heavily congested area such as a central business district..

The information on the plans cannot be shown legibly on an A3 PDF which is why a vector friendly DWF has been sent.

Plans over A3 in size cannot be supplied in PDF format due to system constraints - i.e. even if you specifically request it. You either need to utilise DWF viewing/printing software (see below for details) or

re-request a smaller area through DBYD which will result in a PDF (e.g. max length for a A3 PDF is approx 400m for all areas except CBD's)

Autodesk A360 (<https://360.autodesk.com/viewer>) Free online DWF viewer - Browser update may be required.

Best viewed in Google Chrome Web Browser (<http://www.google.com/chrome/>) and Mozilla Firefox (<https://www.mozilla.org/en-US/firefox/new/>)

or

- Autodesk Design Review (<http://usa.autodesk.com/design-review/>) for DWF files. (Windows)
- Mobile Apps:
- Autodesk A360 (<https://360.autodesk.com/viewer>) Internet Browser window.
- Etoolbox: Android <http://play.google.com/store/apps/details?id=com.etoobox.viewer&hl=en>
- Turbo Viewer iPhone <http://itunes.apple.com/au/app/turboviewer/id440584381?mt=8>

For assistance installing and using the above software please consult the manufacturer's website for more information.

Important note: The construction of Telstra's network dates back over many years. Some of Telstra's pits and ducts were manufactured from asbestos-containing cement.

You must take care in conducting any works in the vicinity of Telstra's pits and ducts. You must refrain from in any way disturbing or damaging Telstra's network infrastructure when conducting your works.

We recommend that before you conduct any works in the vicinity of Telstra infrastructure that you ensure your processes and procedures eliminate any possibility of disturbing, damaging or interfering in any way with Telstra's infrastructure.

Your processes and procedures should incorporate appropriate measures having regard to the nature of this risk.

Further information - <https://www.telstra.com.au/consumer-advice/digging-construction/relocating-network-assets>

WARNING - MAJOR CABLES and/or OPTIC FIBRE IN THE AREA.

Phone 1800 653 935 for further assistance.

Note: In some areas Telstra fibre routes may be marked as "Amcom", as Telstra has purchased much of this infrastructure. If in doubt please contact Telstra Plan services on the number above. Telstra plans and information are only valid for 60 days from the date of issue.

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied cannot be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only.

To the extent permitted by law, Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.

Telstra's plans contain Telstra's confidential information and are provided on the basis that they are used solely for identifying the location or vicinity of Telstra's infrastructure to avoid damage to this infrastructure occurring as part of any digging or other excavation activity. You must not use Telstra's plans for any other purpose or in a way that will cause Telstra loss or damage and you must comply with any other terms of access to the data that have been provided to you by Telstra (including Conditions of Use or Access).

7.9 SYDNEY WATER

Asset Name: 80210

Date of enquiry: 7/02/2020 4:21:00 PM

Notification No: 18998095 (Job No)

Sequence No: 94589266

Customers Name: Ms Jamie-Lee MacDonald

Customers Phone No: 02 94385098, Not Supplied

Address supplied for dig site location

2 Farrow Road, Campbelltown, NSW



IMPORTANT INFORMATION - DIAL BEFORE YOU DIG

Attention: You must read the information below

The material provided or made available to you by Sydney Water (including on the Sydney Water website) in relation to your Dial Before You Dig enquiry (**Information**) is provided on each of the following conditions, which you are taken to have accepted by using the Information:

- 1 The Information has been generated by an automated system based on the area highlighted in the "Locality Indication Only" window on your Caller Confirmation. It is your responsibility to ensure that the dig site is properly defined when submitting your Dial Before You Dig enquiry and, if the Information does not match the dig site, to resubmit your enquiry for the correct dig site.
- 2 Neither Sydney Water nor Dial Before You Dig make any representation or give any guarantee, warranty or undertaking (express or implied) as to the currency, accuracy, completeness, effectiveness or reliability of the Information. The Information, including Sydney Water plans and work-as-executed diagrams, amongst other things:
 - (a) may not show all existing structures, including Sydney Water's pipelines, particularly in relation to newer developments and in relation to structures owned by parties who do not participate in the Dial Before You Dig service;
 - (b) may be out of date and not show changes to surface levels, road alignments, fences, buildings and the like;
 - (c) is approximate only and is therefore not suitable for scaling purposes; and
 - (d) does not show locations of property services (often called house service lines) belonging to or servicing individual customers, which are usually connected to Sydney Water's structures.
- 3 You are responsible for, amongst other things:
 - (a) exposing underground structures, including Sydney Water's pipelines, by pot-holing using hand-held tools or vacuum techniques so as to determine the precise location and extent of structures before any mechanical means of excavation are used;
 - (b) the safe and proper excavation of and for underground works and structures, including having regard to the fact that asbestos cement pipelines, which can pose a risk to health, may form part of Sydney Water's water and sewerage reticulation systems;
 - (c) protecting underground structures, including Sydney Water's pipelines, from damage and interference;
 - (d) maintaining minimum clearances between Sydney Water's structures and structures belonging to others;
 - (e) ensuring that backfilling of excavation work in the vicinity of Sydney Water's structures complies with Sydney Water's standards contained on its website or otherwise communicated to you;
 - (f) notifying Sydney Water immediately of any damage caused or threat of damage to Sydney Water's structures;
 - (g) ensuring that plans are approved by Sydney Water (usually signified by stamping) prior to landscaping or building over or in the vicinity of any Sydney Water structure; and
 - (h) ensuring that the Information is used only for the purposes for which Sydney Water and Dial Before You Dig intended.

- 4 You acknowledge that you use the Information at your own risk. In consideration for the provision of the Dial Before You Dig service and the Information by Sydney Water and Dial Before You Dig, to the fullest extent permitted by law:
- (a) all conditions and guarantees concerning the Information (whether as to quality, outcome, fitness, care, skill or otherwise) expressed or implied by statute, common law, equity, trade, custom or usage or otherwise are expressly excluded and to the extent that those statutory guarantees cannot be excluded, the liability of Sydney Water and Dial Before You Dig to you is limited to either of the following as nominated by Sydney Water in its discretion, which you agree is your only remedy:
 - (i) the supplying of the Information again; or
 - (ii) payment of the cost of having the Information supplied again;
 - (b) in no event will Sydney Water or Dial Before You Dig be liable for, and you release Sydney Water and Dial Before You Dig from, any Loss arising from or in connection with the Information, including the use of or inability to use the Information and delay in the provision of the Information:
 - (i) whether arising under statute or in contract, tort or any other legal doctrine, including any negligent act, omission or default (including wilful default) by Sydney Water or Dial Before You Dig; and
 - (ii) regardless of whether Sydney Water or Dial Before You Dig are or ought to have been aware of, or advised of, the possibility of such loss, costs or damages;
 - (c) you will indemnify Sydney Water and Dial Before You Dig against any Loss arising from or in connection with Sydney Water providing incorrect or incomplete information to you in connection with the Dial Before You Dig service; and
 - (d) you assume all risks associated with the use of the Dial Before You Dig and Sydney Water websites, including risk to your computer, software or data being damaged by any virus, and you release and discharge Sydney Water and Dial Before You Dig from all Loss which might arise in respect of your use of the websites.
- 5 **"Sydney Water"** means Sydney Water Corporation and its employees, agents, representatives and contractors. **"Dial Before You Dig"** means Dial Before You Dig Incorporated and its employees, agents, representatives and contractors. References to **"you"** include references to your employees, agents, representatives, contractors and anyone else using the Information. References to **"Loss"** include any loss, cost, expense, claim, liability or damage (including arising in connection with personal injury, death or any damage to or loss of property and economic or consequential loss, lost profits, loss of revenue, loss of management time, opportunity costs or special damages). To the extent of any inconsistency, the conditions in this document will prevail over any other information provided to you by Sydney Water and Dial Before You Dig.

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 Building Development and Plumbing section of Sydney Water's website at www.sydneywater.com.au, where you will find the following documents under 'Dial Before You Dig':

- Avoid Damaging Water and Sewer Pipelines
- Water Main Symbols
- Depths of Mains
- Guidelines for Building Over/Adjacent to Sydney Water Assets
- Clearances Between Underground Services

Or call **13 20 92** for Customer Enquires.

Note: The lodging of enquiries via www.1100.com.au will enable you to receive colour plans in PDF format 24 hours a day, 7 days a week via email.

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.

Statement of Available Pressure and Flow



Laura Skillicorn
33 Herbert Street
St Leonards NSW 2065

Attention: Laura Skillicorn

Date: 5/03/2020

Pressure & Flow Application Number: 817877
Your Pressure Inquiry Dated: 2020-02-21
Property Address: 2 Farrow Road, Campbelltown NSW 2560

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency fire fighting, and are not to be construed as availability for normal domestic supply for any proposed development.

ASSUMED CONNECTION DETAILS

Street Name: Farrow Road	Side of Street: North
Distance & Direction from Nearest Cross Street	70 metres West from Badgally Road
Approximate Ground Level (AHD):	62 metres
Nominal Size of Water Main (DN):	150 mm – As per sketch provided

EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT

Normal Supply Conditions	
Maximum Pressure	76 metre head
Minimum Pressure	63 metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow l/s	Pressure head m
Fire Hose Reel Installations (Two hose reels simultaneously)	0.66	63
Fire Hydrant / Sprinkler Installations (Pressure expected to be maintained for 95% of the time)	5	65
	10	65
	15	64
	20	63
	26	62
	30	62
	40	59
	50	57
Fire Installations based on peak demand (Pressure expected to be maintained with flows combined with peak demand in the water main)	5	62
	10	62
	15	61
	20	61
	26	60
	30	59
	40	57
	50	54
Maximum Permissible Flow	67	48

(Please refer to reverse side for Notes)

For any further inquiries regarding this application please email :

swtapin@sydneywater.com.au

Statement of Available Pressure and Flow



Laura Skillicorn
33 Herbert Street
St Leonards NSW 2065

Attention: Laura Skillicorn

Date: 5/03/2020

Pressure & Flow Application Number: 817837
Your Pressure Inquiry Dated: 2020-02-21
Property Address: 2 Farrow Road, Campbelltown NSW 2560

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency fire fighting, and are not to be construed as availability for normal domestic supply for any proposed development.

ASSUMED CONNECTION DETAILS

Street Name: Badgally Road	Side of Street: West
Distance & Direction from Nearest Cross Street	20 metres North from Watsford Road
Approximate Ground Level (AHD):	60 metres
Nominal Size of Water Main (DN):	300 mm – As per sketch provided

EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT

Normal Supply Conditions	
Maximum Pressure	78 metre head
Minimum Pressure	64 metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow l/s	Pressure head m
Fire Hose Reel Installations (Two hose reels simultaneously)	0.66	64
Fire Hydrant / Sprinkler Installations (Pressure expected to be maintained for 95% of the time)	5	67
	10	67
	15	67
	20	66
	26	66
	30	66
	40	65
	50	64
Fire Installations based on peak demand (Pressure expected to be maintained with flows combined with peak demand in the water main)	5	64
	10	64
	15	64
	20	63
	26	63
	30	63
	40	63
	50	62
Maximum Permissible Flow	120	52

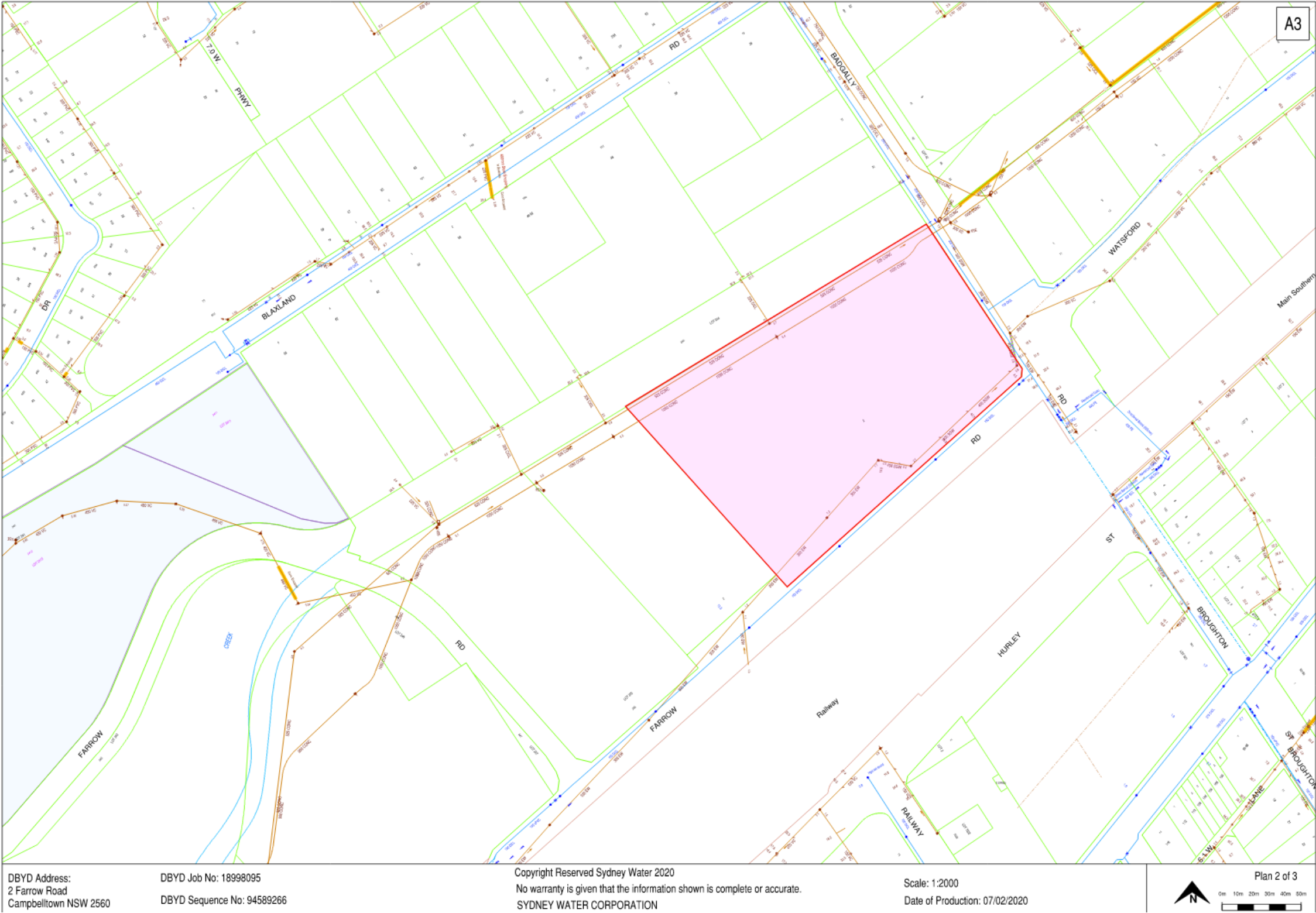
(Please refer to reverse side for Notes)

For any further inquiries regarding this application please email :

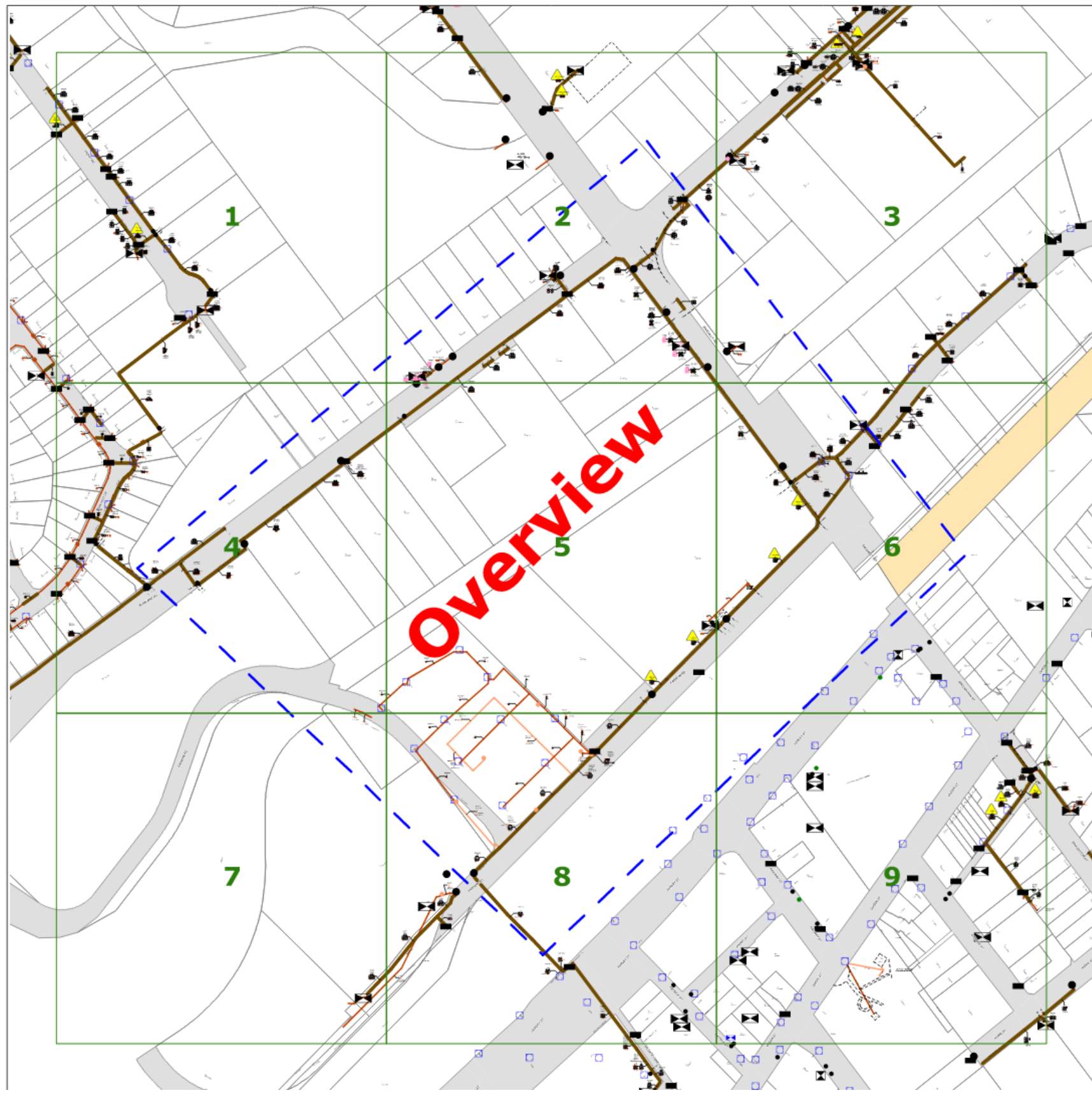
swtapin@sydneywater.com.au

Appendix A - SITE INFRASTRUCTURE DRAWINGS

A.1 SYDNEY WATER



A.2 ENDEAVOUR ENERGY



WARNING

- **All electrical apparatus shall be regarded as live until proved de-energised.** Contact with live electrical apparatus will cause severe injury or death.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (20) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location **may not** be shown on plans. Persons excavating are expected to exercise all due care, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans **do not** show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.
- All plans must be printed and made available at the worksite where excavation is to be undertaken. Plans must be reviewed and understood by the crew on site prior to commencing excavation.

INFORMATION PROVIDED BY ENDEAVOUR ENERGY

- Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.
- Depth of underground assets may vary significantly from information provided on plans as a result of changes to road, footpath or surface levels subsequent to installation.
- Such plans have been prepared solely for use by Endeavour Energy staff for design, construction and maintenance purposes.
- All enquiry details and results are kept in a register.

DISCLAIMER

Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in the plans is as accurate as possible it will accept no liability for inaccuracies in the information shown on such plans.

LEGEND

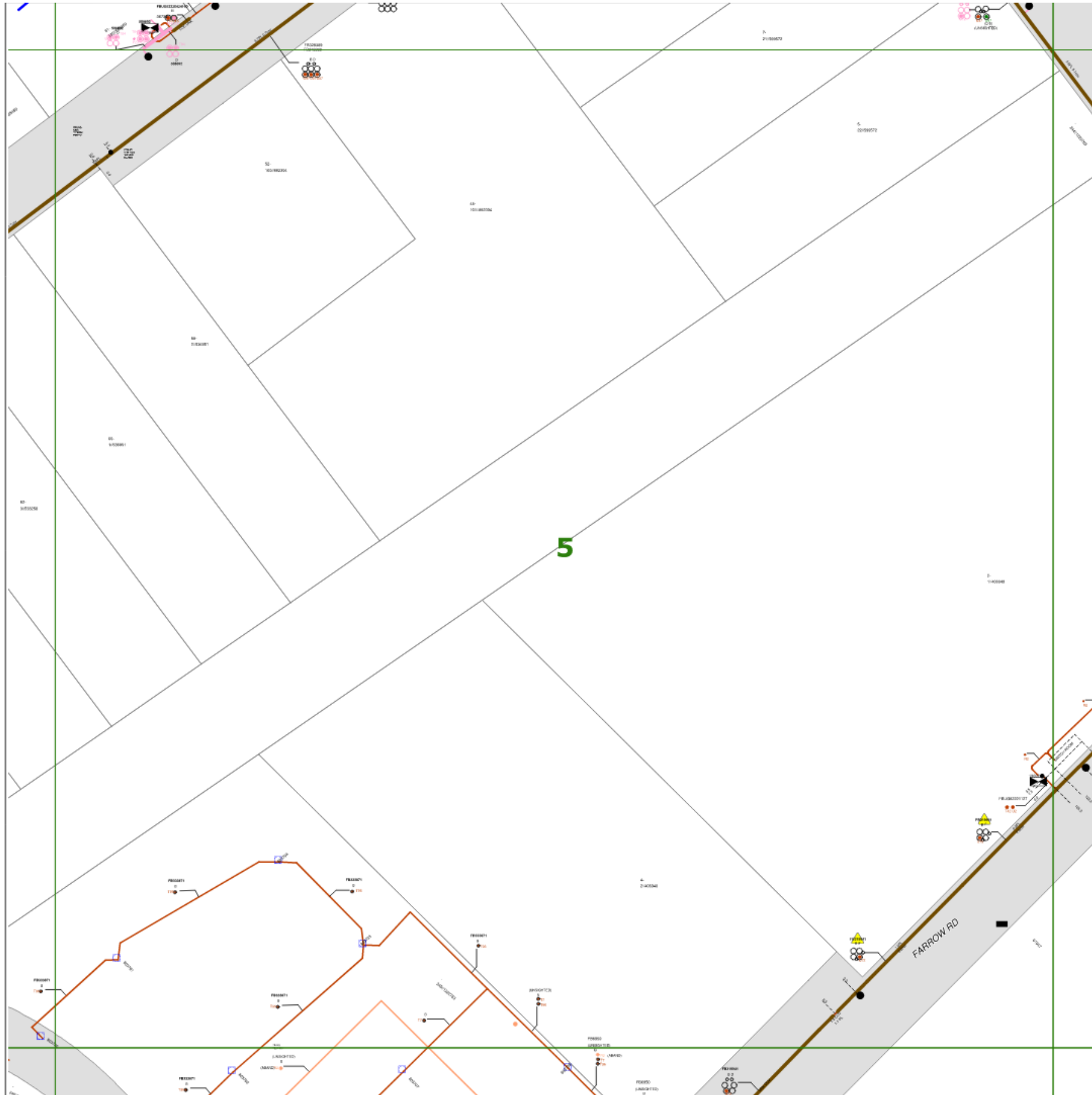
- OR ■ Street light column
- ▤ Padmount substation
- OR ■ Overground pillar (O.G.Box)
- ⊠ Underground pit
- Duct run
- Cable run
- ⊙ Typical duct section
- ▲ Asbestos warning



NOT TO SCALE

DBYD Sequence No.:	94589261
Issued Date:	10/02/2020

Cadastre: © Land and Property Information 2015, 2016



WARNING

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LEGEND

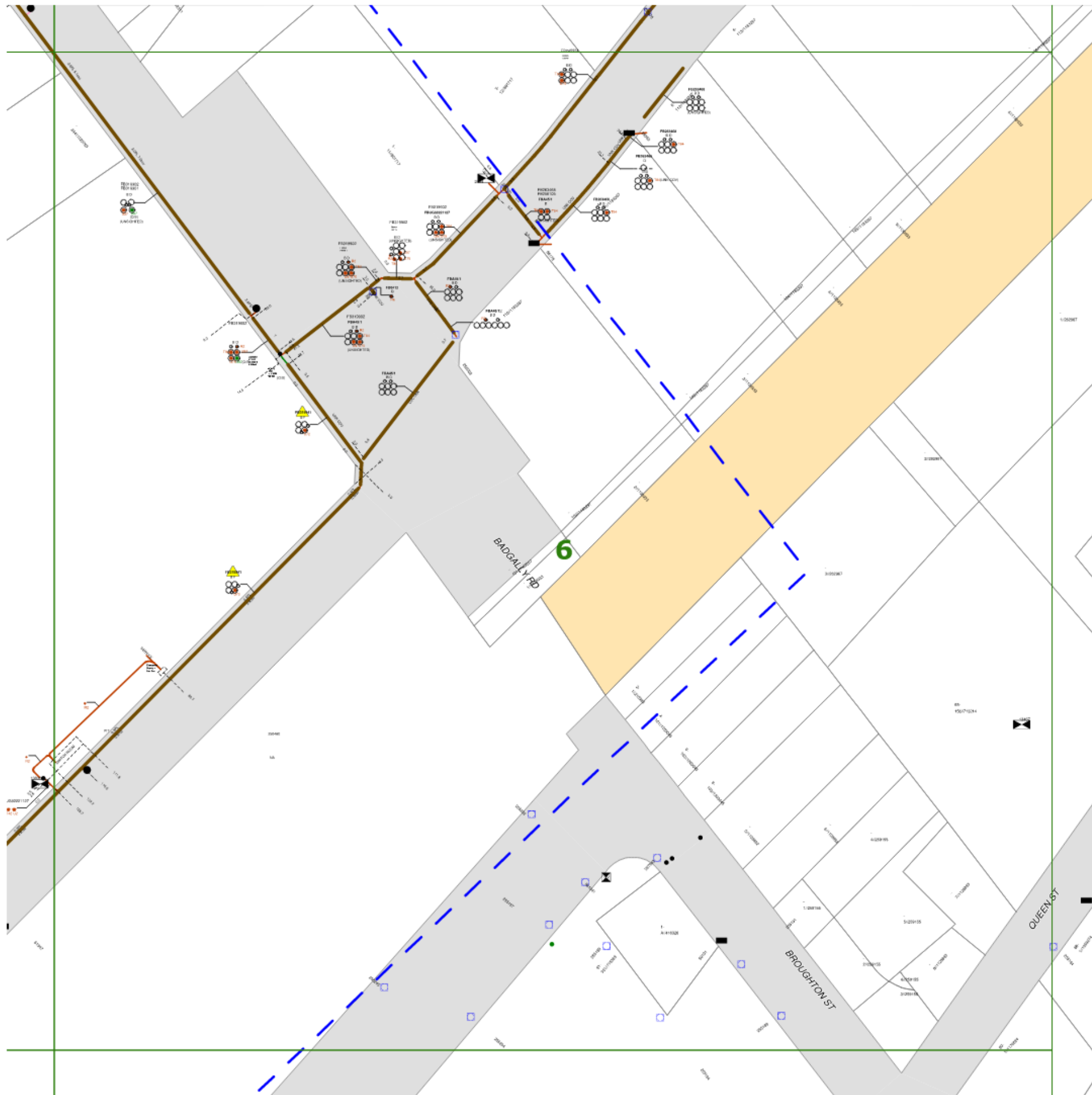
- or ■ Street light column
- ▭ Padmount substation
- or ■ Overground pillar (O.G.Box)
- ▭ Underground pit
- Duct run
- Cable run
- ⊗ Typical duct section
- ▲ Asbestos warning



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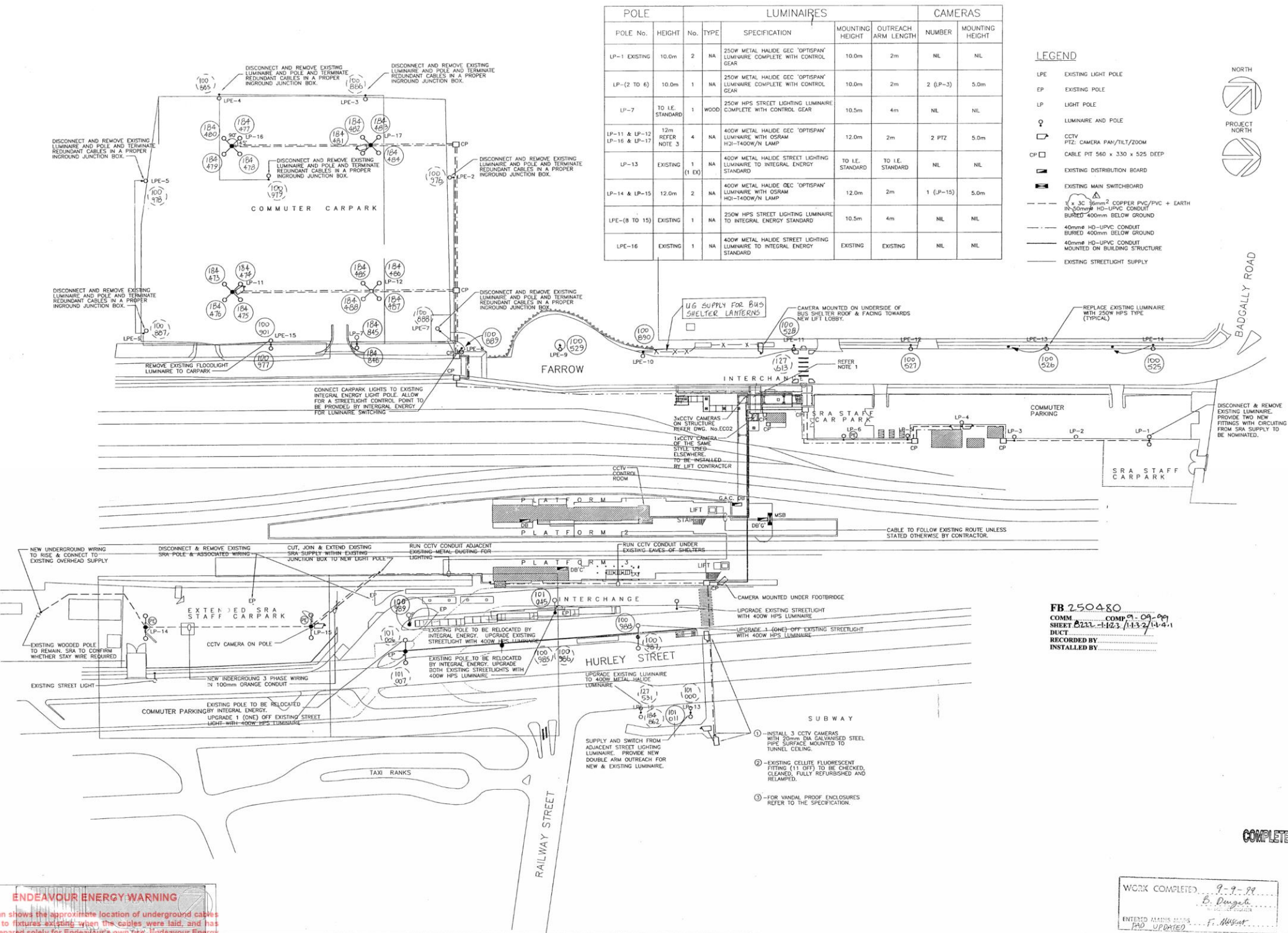
LEGEND

- or ■ Street light column
- ▭ Padmount substation
- or ■ Overground pillar (O.G.Box)
- ⊠ Underground pit
- Duct run
- Cable run
- ⊗ Typical duct section
- ▲ Asbestos warning



NOT TO SCALE

DBYD Sequence No.:	94589261
Issued Date:	10/02/2020



POLE		LUMINAIRES			CAMERAS	
POLE No.	HEIGHT	No.	TYPE	SPECIFICATION	MOUNTING HEIGHT	OUTREACH ARM LENGTH
LP-1 EXISTING	10.0m	2	NA	250W METAL HALIDE GEC 'OPTISPAN' LUMINAIRE COMPLETE WITH CONTROL GEAR	10.0m	2m
LP-2 TO 6	10.0m	1	NA	250W METAL HALIDE GEC 'OPTISPAN' LUMINAIRE COMPLETE WITH CONTROL GEAR	10.0m	2m
LP-7	TO I.E. STANDARD	1	WOOD	250W HPS STREET LIGHTING LUMINAIRE COMPLETE WITH CONTROL GEAR	10.5m	4m
LP-11 & LP-12	12m	4	NA	400W METAL HALIDE GEC 'OPTISPAN' LUMINAIRE WITH OSRAM H21-1400W/H LAMP	12.0m	2m
LP-13	EXISTING (1 EX)	1	NA	400W METAL HALIDE STREET LIGHTING LUMINAIRE WITH OSRAM H21-1400W/H LAMP	TO I.E. STANDARD	TO I.E. STANDARD
LP-14 & LP-15	12.0m	2	NA	400W METAL HALIDE GEC 'OPTISPAN' LUMINAIRE WITH OSRAM H21-1400W/H LAMP	12.0m	2m
LPE-8 TO 15	EXISTING	1	NA	250W HPS STREET LIGHTING LUMINAIRE TO INTEGRAL ENERGY STANDARD	10.5m	4m
LPE-16	EXISTING	1	NA	400W METAL HALIDE STREET LIGHTING LUMINAIRE TO INTEGRAL ENERGY STANDARD	EXISTING	EXISTING

LEGEND

- LPE EXISTING LIGHT POLE
- EP EXISTING POLE
- LP LIGHT POLE
- ☉ LUMINAIRE AND POLE
- ☐ CCTV PTZ CAMERA PAX/TILT/ZOOM
- ☐ CABLE PIT 560 x 330 x 525 DEEP
- ☐ EXISTING DISTRIBUTION BOARD
- ☐ EXISTING MAIN SWITCHBOARD
- 1/2" x 3/16" COPPER PVC/PVC + EARTH
- 1/2" x 3/16" HD-UPVC CONDUIT BURIED 300mm BELOW GROUND
- 40mm HD-UPVC CONDUIT BURIED 400mm BELOW GROUND
- 40mm HD-UPVC CONDUIT MOUNTED ON BUILDING STRUCTURE
- EXISTING STREETLIGHT SUPPLY



QUALITY ASSURANCE CHECKS	DATE	INITIALS	STATUS
DESIGN	20		PENDING
CONSTRUCTION	20		PENDING
COMPLETION	20		PENDING

DESIGNED UNDER A QUALITY SYSTEM CERTIFIED AS COMPLYING WITH ISO 9001 BY AN ACCREDITED CERTIFICATION BODY.

THE PROJECT MANAGER SHALL BE RESPONSIBLE FOR THE PROGRESS OF THE PROJECT AND SHALL ENSURE THAT THE PROJECT IS COMPLETED WITHIN THE AGREED TIME FRAME AND BUDGET.

- PROVIDE A NEW PUBLIC TELEPHONE WITHIN THE LIFT LOBBY IN A LOCATION TO BE ADVISED. THE PHONE SHALL BE A LOW HEIGHT TYPE COMPLYING WITH DDA REQUIREMENTS. PAY ALL COSTS & CHARGES TO TELESTRA FOR ESTABLISHING THE PUBLIC TELEPHONE.
- WORK ALONG FARRROW ROAD AND SUBWAY RAMP IS NON-CONTESTABLE WORK WHICH MUST BE CARRIED OUT BY INTEGRAL ENERGY. PAY ALL COSTS & CHARGES NECESSARY FOR INTEGRAL ENERGY TO CARRY OUT THIS WORK.
- CARPARK LIGHTING POLES SHALL BE GALVANISED TAPERED TUBULAR STEEL TO FIT 4MM2 BOLTS ON 300 PCD. THE ACCESS DOOR SHALL BE TO INTERNAL ENERGY STANDARD (REFER TO INTEGRAL ENERGY DRAWING 250564). LUMINAIRES MOUNTED ON POLE SHALL HAVE 10° UPCAST. THE POLES MUST BE PROTECTED FROM VEHICLE IMPACT TO THE SATISFACTION OF INTEGRAL ENERGY.
- PROVIDE ADEQUATE INSULATION OF CCTV CAMERAS & HOUSINGS WHERE MOUNTED ON COLUMNS WITH INTERNAL STEEL REINFORCEMENT.

E	GENERAL REVISIONS & EXTERNAL LIGHTING REVISED FOR APPROVAL	03.05.99	BN
D	GENERAL REVISIONS	03.03.99	BN
C	FARRROW RD. STAR DELETED. INTERNAL ENERGY LTD POLE RELOCATIONS. UNDERGROUND FEED FROM PIT NEAR LIFTS TO LIFTS BOLLERS. SRA UNDERGROUND CABLES & POLE REMOVAL. ADD.	11.01.99	BN
B	TENDER RE-ISSUE	10.11.98	BN
A	TENDER ISSUE	28.10.98	BN

Consulting Engineers
WOOLCOTT HALE CORLETT AND JUMKIS
2A BROUGHTON RD. ARTARSON NSW 2064
Telephone (02) 94121209 Fax (02) 9415 1132

Management Design Architects
MICHAEL DAVIES ASSOCIATES PTY LTD
49 YORK STREET, SYDNEY NSW 2000
Telephone (02) 9552 6277 Fax (02) 9552 6369

Construction Manager

Projects

FLETCHER CONSTRUCTION AUSTRALIA LIMITED
LEVEL 12, 52 ALFRED STREET, HILSONS PT NSW 2061
Telephone (02) 9551 7000 Fax (02) 9551 0409

MECHANICAL & ELECTRICAL CONSULTANT
STEVENSON VARMING (AUSTRALIA) PTY. LIMITED
CONSULTING ENGINEERS AND PLANNERS A.C.C.A. F.3.0.2
Level 3, 144 Silvers Bay Road, Sydney NSW 2000
Telephone (02) 9987 2200 Fax (02) 9987 2902

Project
CAMPBELLTOWN BUS RAIL INTERCHANGE

Client
NSW DEPARTMENT OF TRANSPORT

Drawing
ELECTRICAL SERVICES
CCTV & STREETLIGHTING
SITE PLAN, DETAILED LAYOUT AND LEGEND

Scale
1:500

Drawn By/Date
OCT 98

Project/Drawing Number
98804 EC01

Do not scale the drawing. Report any discrepancies to the Project Manager.

Checked/Date
3.5.99 BN

Approved/Date
3.5.99

Issue
FARROW ROAD LIGHTING

WORK COMPLETED 9-9-98
R. Dugan
ENTERED MAINS 10-10-98
F. Hyslop

INTEGRAL ENERGY CONTRACTING
HURLEY ST & FARRROW RD
CAMPBELLTOWN
BUS RAIL INTERCHANGE
IMPROVED STREET LIGHTING

A2 250480
SHEET No 1 OF 1 SHEETS

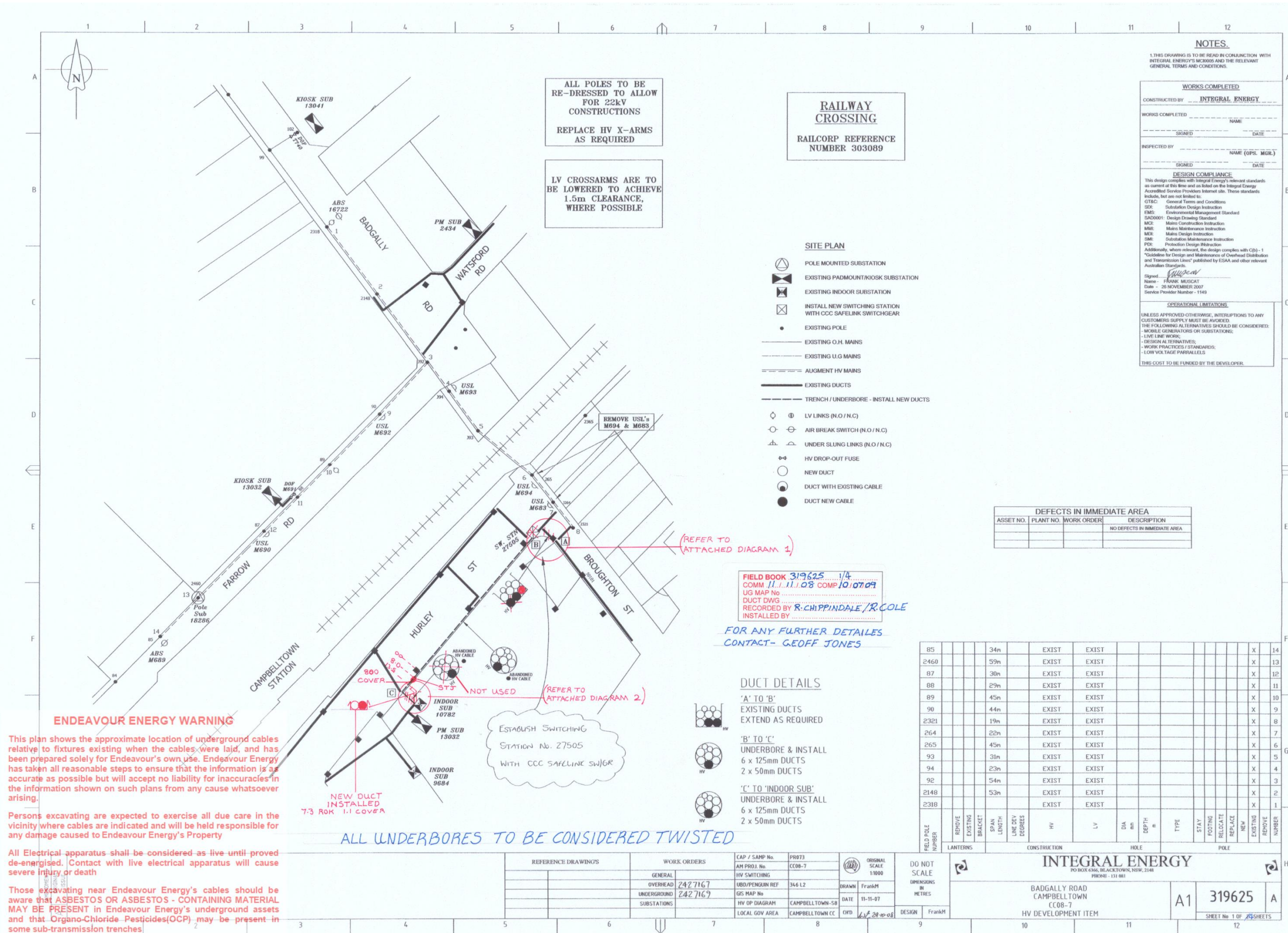
ENDEAVOUR ENERGY WARNING

This plan shows the approximate location of underground cables relative to fixtures installed when the cables were laid, and has been prepared solely for Endeavour Energy's own use. Endeavour Energy has taken all reasonable steps to ensure that the information is as accurate as possible but will accept no liability for inaccuracies in the information shown on such plans from any cause whatsoever arising.

Persons excavating are expected to exercise all due care in the vicinity where cables are indicated and will be held responsible for any damage caused to Endeavour Energy's Property.

All Electrical apparatus shall be considered as live until proved de-energised. Contact with live electrical apparatus will cause severe injury or death.

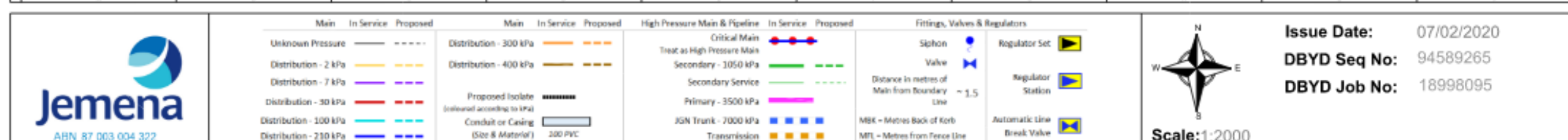
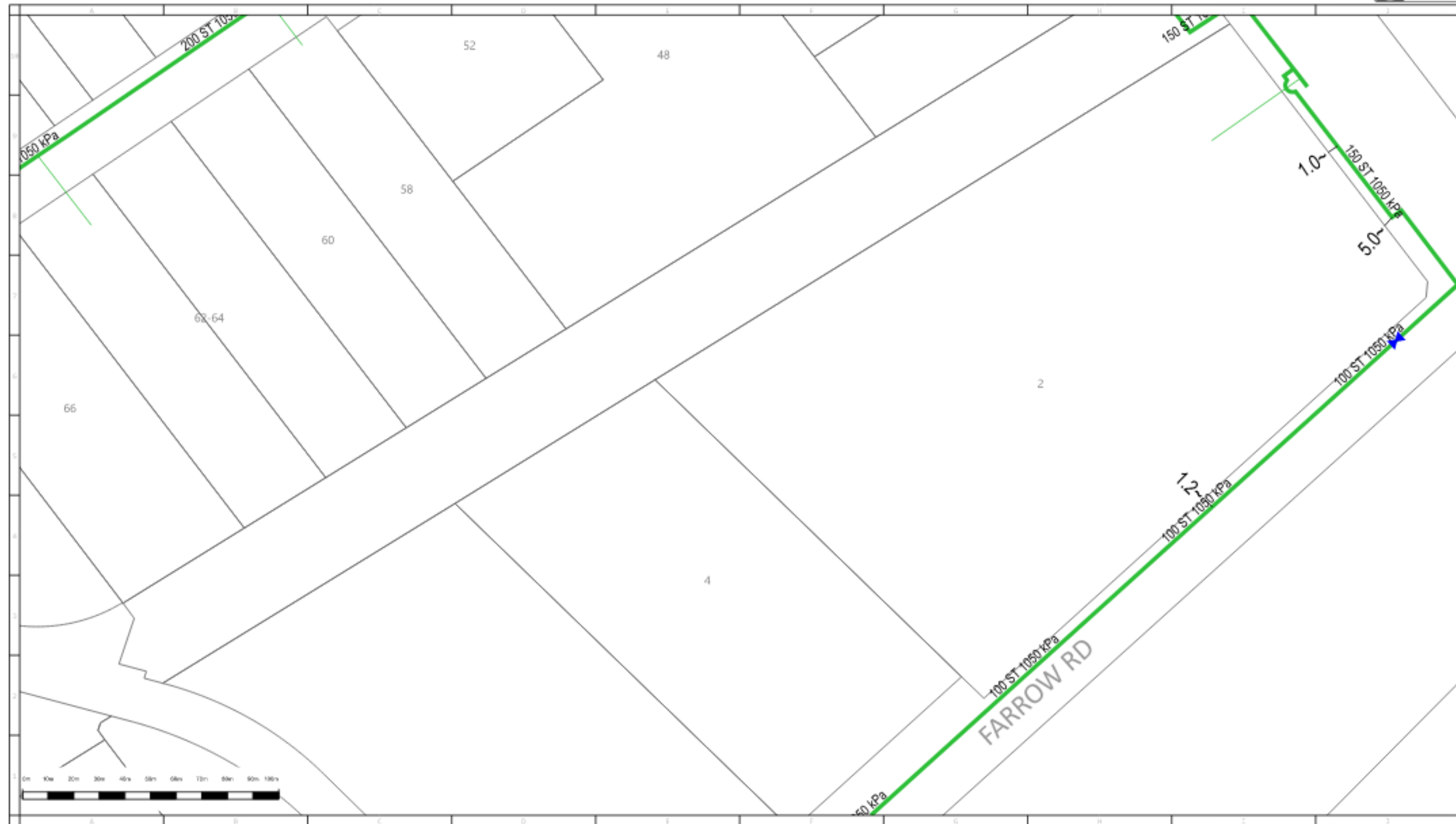
Those excavating near Endeavour Energy's cables should be aware that ASBESTOS OR ASBESTOS - CONTAINING MATERIAL MAY BE PRESENT in Endeavour Energy's underground assets and that Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.

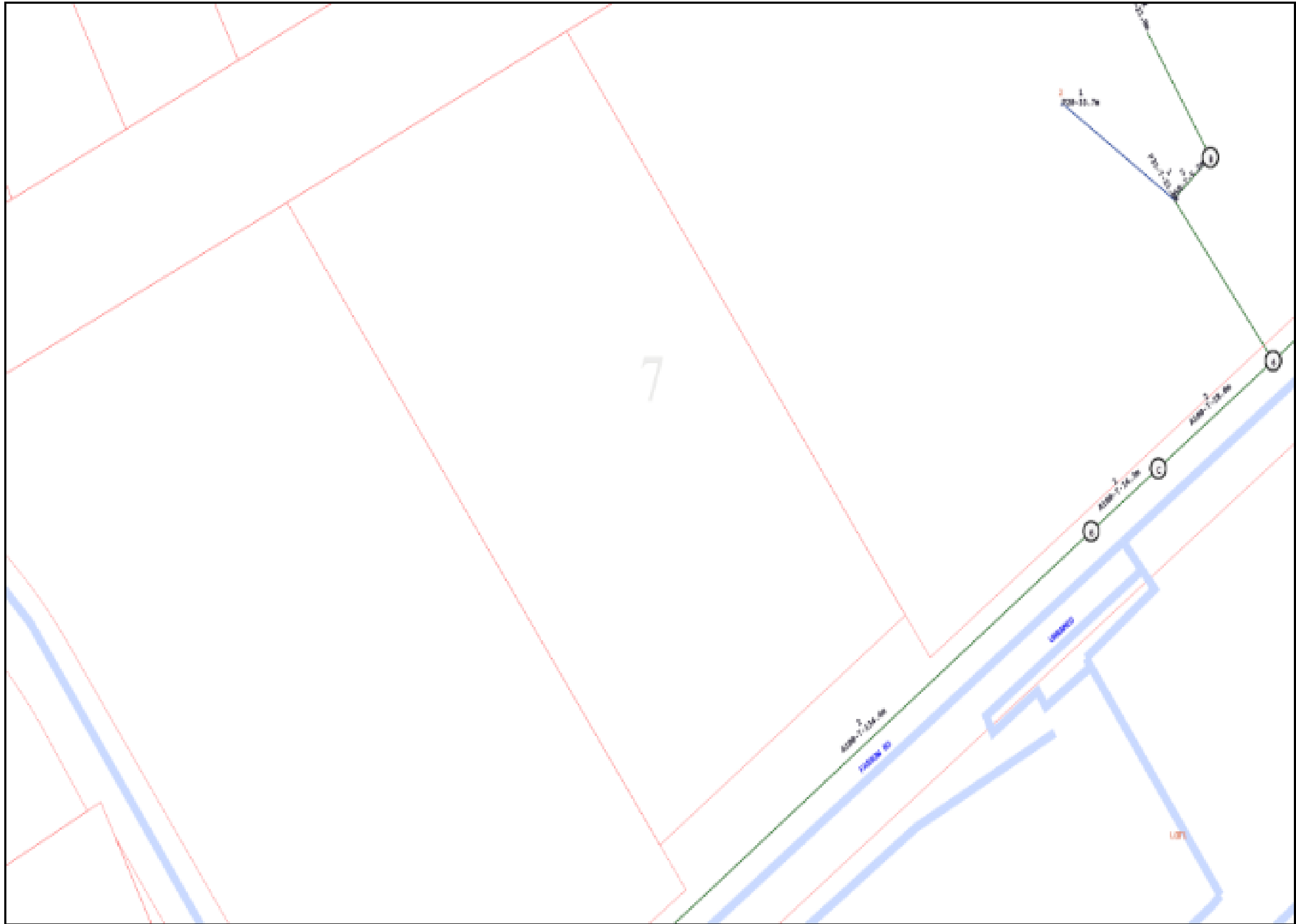


A.3 JEMENA GAS WEST

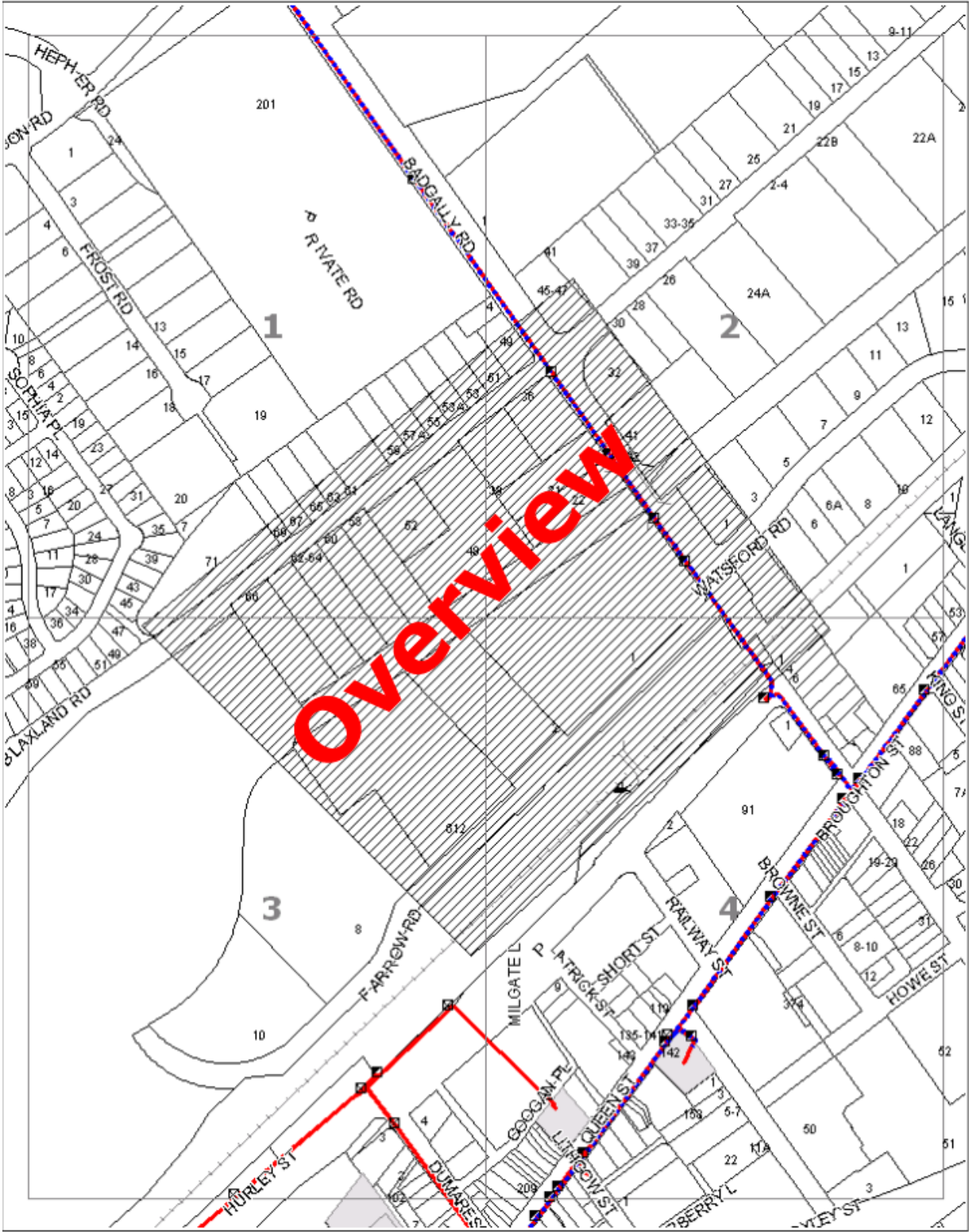
DBYD Authority: Jemena Gas Networks (NSW)

DBYD Location: 2 Farrow Road Campbelltown NSW, 2560





A.5 OPTUS



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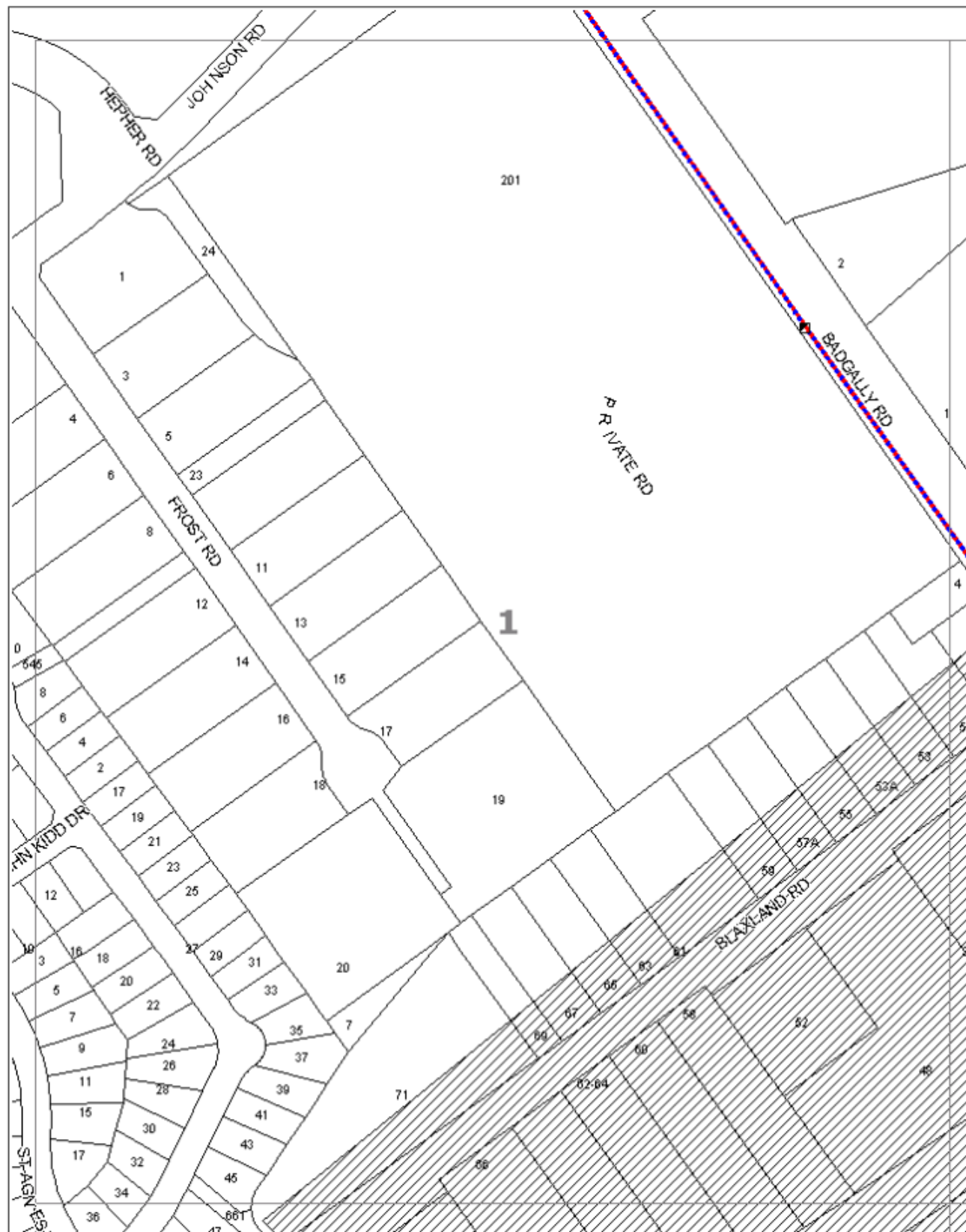
Sequence Number: 94589264

Date Generated: 07/02/2020



For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208





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Sequence Number: 94589264

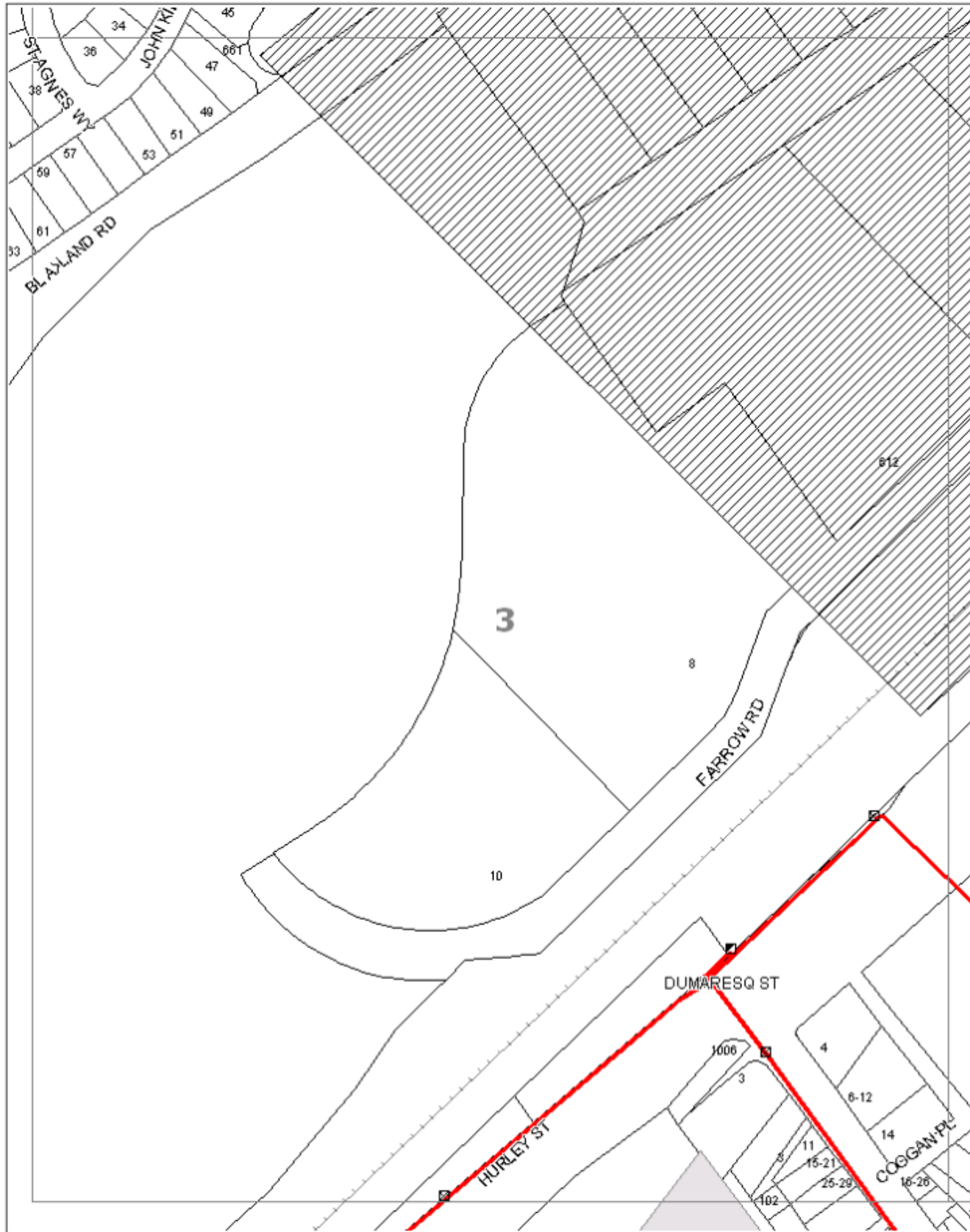
Date Generated: 07/02/2020



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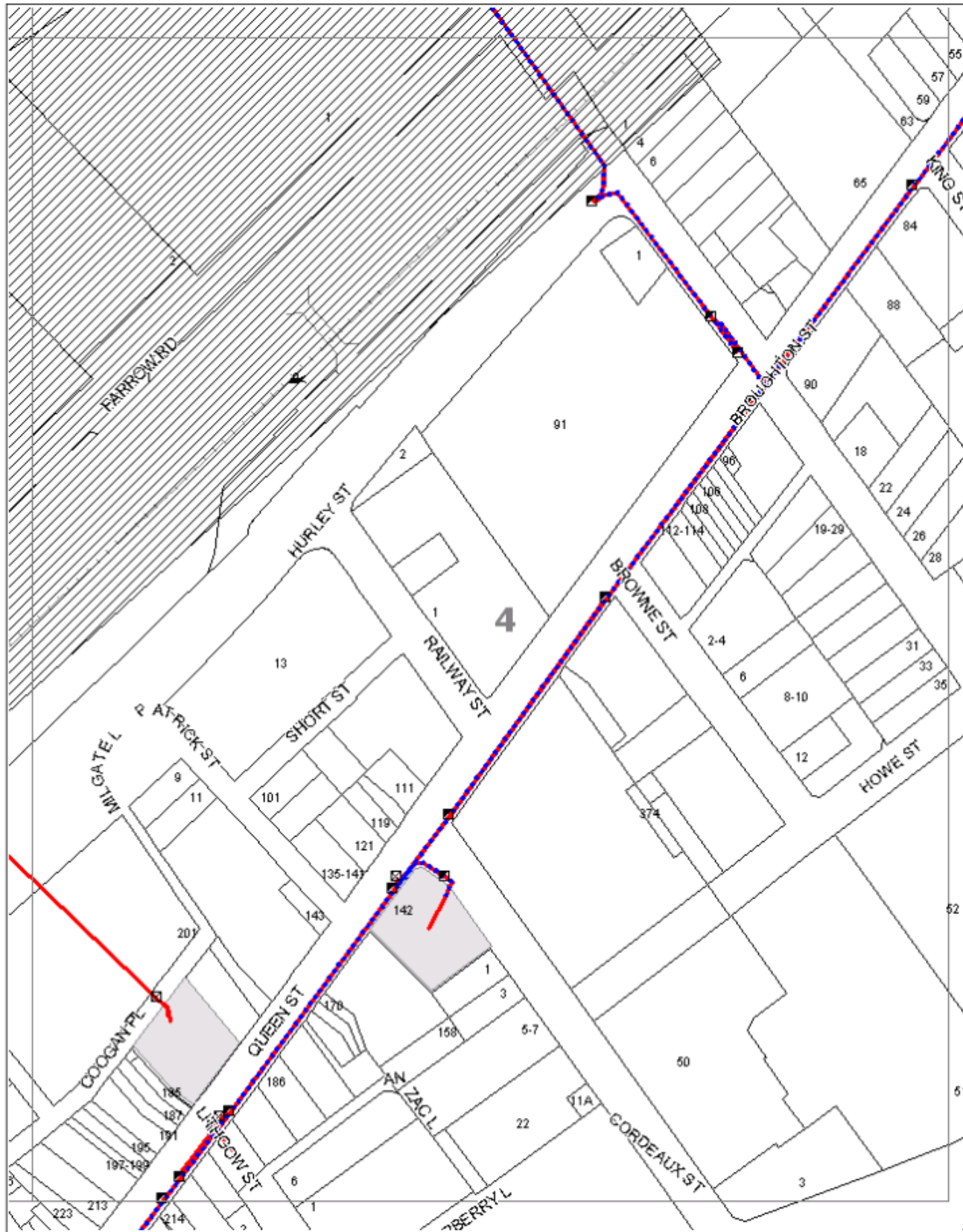
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