

# INFRASTRUCTURE REPORT

13-23 GIBBONS STREET REDFERN, WEE HUR  
STUDENT VILLAGE

21 NOVEMBER 2018



## CONTACT



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# WEE HUR GROUP WEE HUR STUDENT VILLAGE

## Infrastructure Report

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**Checker** Kakoli Das \_\_\_\_\_

**Approver** Approver Name \_\_\_\_\_

**Report No** INF01 - 10026144

**Date** 21/11/2018

**Revision Text** 01

This report has been prepared for Wee Hur in accordance with the terms and conditions of appointment for Redfern Student Accommodation dated 21/11/2018. Arcadis Australia Pacific Pty Limited (ABN 76 104 485 289) cannot accept any responsibility for any use of or reliance on the contents of this report by any third party.

## REVISIONS

Revision	Date	Description	Prepared by	Approved by
01	21/11/2018	Draft Issue	BF	



# CONTENTS

<b>1 . EXECUTIVE SUMMARY .....</b>	<b>1</b>
1.1 Purpose .....	1
1.2 Authority.....	1
<b>2 INTRODUCTION .....</b>	<b>2</b>
2.1 Site Information .....	2
2.2 Work Undertaken by Arcadis.....	2
<b>3 EXISTING INFRASTRUCTURE.....</b>	<b>3</b>
3.1 Electrical Services .....	3
3.2 Communications Services .....	3
3.3 Water Services .....	3
<b>4 PROPOSED INFRASTRUCTURE .....</b>	<b>4</b>
4.1 Electrical Services .....	4
4.2 Communications Services .....	4
4.3 Water Services .....	4
<b>5 RECOMMENDATIONS .....</b>	<b>4</b>
5.1 Electrical.....	Error! Bookmark not defined.
5.2 Communications.....	Error! Bookmark not defined.
5.3 Water.....	Error! Bookmark not defined.
<b>APPENDIX A – AUSGRID NETWORK DRAWING .....</b>	<b>5</b>
.....	6
<b>APPENDIX B – DIAL BEFORE YOU DIG – COMMUNICATIONS .....</b>	<b>7</b>
Telstra.....	Error! Bookmark not defined.
<b>APPENDIX D – PRELIMINARY APPLICATION TO AUSGRID AND RESPONSE .....</b>	<b>10</b>
<b>APPENDIX D AUSGRID ZONE SUBSTATION CAPACITY (EXTRACT FROM AUSGRID DISTRIBUTION AND TRANSMISSION ANNUAL REPORT).....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>

# 1 . EXECUTIVE SUMMARY

## 1.1 Purpose

The purpose of this report is to assess the existing Electrical, Communications and Hydraulics services (provisions to the newly proposed Redfern Student Accommodation).

The assessment is based on the following:

- Review of “Dial Before You Dig (DBYD)” information
- Preliminary maximum demand calculations based on initial architectural designs
- Review of architectural drawings of the proposed development
- Review of Ausgrid GIS plans and single line diagrams
- Review of Sydney Water Pressure and Flow enquiry

Further coordination and discussions with the respective authorities will be carried out at the detailed design stage to confirm the supply arrangement and modification to infrastructure work required.

This report shall not be relied upon as providing any warranty or guarantee of the project, its services or equipment.

## 1.2 Authority

Authority to undertake this report was provided by Wee Hur on 21<sup>st</sup> of November 2018.

## 2 INTRODUCTION

### 2.1 Site Information

The proposed development site is located on the corner of Gibbons Street and Margaret Street, Redfern. The Existing building is proposed to be demolished and a new 19 story student housing complex built. The architectural drawings shown the site will incorporate student housing rooms, common areas, and a retail tenancy.

### 2.2 Work Undertaken by Arcadis

Arcadis have undertaken the following works:

- Calculated electrical maximum demand, based on the architectural plans and areas schedule.
- Liaise with Ausgrid regarding supply arrangement.
- Submit preliminary enquiry to Ausgrid for the proposed work.
- Review DBYD information received from utilities including Sydney water, Ausgrid, Telstra, Optus.

Arcadis analysis is a desktop study only based on documents available at the time when this report was written. The list of available documents is included in section 3 of this report.

## **3 EXISTING INFRASTRUCTURE**

The following Infrastructure provisions were noted.

### **3.1 Electrical Services**

The current substations are to be demolished as part of the new project.

The Ausgrid Geotechnical (GIS) drawings for this area are attached as Appendix A.

### **3.2 Communications Services**

The drawings received from services providers showing their network in the vicinity of the proposed site are attached as Appendix B.

DBYD records from Optus indicate they have underground optic fibre cabling running along the back of the proposed site along Botany road. There plans indicate that there is an Optus service in other Utility Conduit.

There is also indication of a Uecomm conduit running along the front of the proposed site along Gibbons street.

### **3.3 Water Services**

The drawings received from Sydney water showing their network in the vicinity of the proposed site are attached as Appendix C.

There is a 150 DICL water mains supply running along Gibbons street.

There is are two 225 VC Sewer main running along the property boundaries, one runs along Gibbons street and one runs behind the proposed site along William lane and then connecting into the system along Margaret street.

## 4 PROPOSED INFRASTRUCTURE

It should be noted that where capacities are commented on, these are at the point in time when this report is prepared and may change subject to other developments in the vicinity.

### 4.1 Electrical Services

Based on the area schedule and architectural drawings, the calculated maximum demand for the development based on VA/sq.m Allowance is approximately 1.9MVA. A preliminary inquiry has been submitted to Ausgrid to check connection based on this calculated load.

Two new 1MVA mini chamber substations are proposed to be installed as part of the development.

A formal application requesting “Design Information Package” (DIP) will have to be made to Ausgrid during the detail design stage. This will be required for the preparation of the Level 3 design associated with the provision of HV supply from Ausgrid nominated connection point/zone substation and the new distribution substations within the property boundary.

### 4.2 Communications Services

With the DBYD results indicating there is optic fibre connections in the vicinity of the site, it is proposed to connect into the optic fibre network to provide NBN to the property. As part of the development and new lead in cable would need to be installed to allow connection to the network. As this is a new development a new comms room will be installed and is currently proposed to be located on the basement floor.

An inquiry with Telstra is still pending to gain further information of the existing services to the location, once this information has been provided further design can be undertaken.

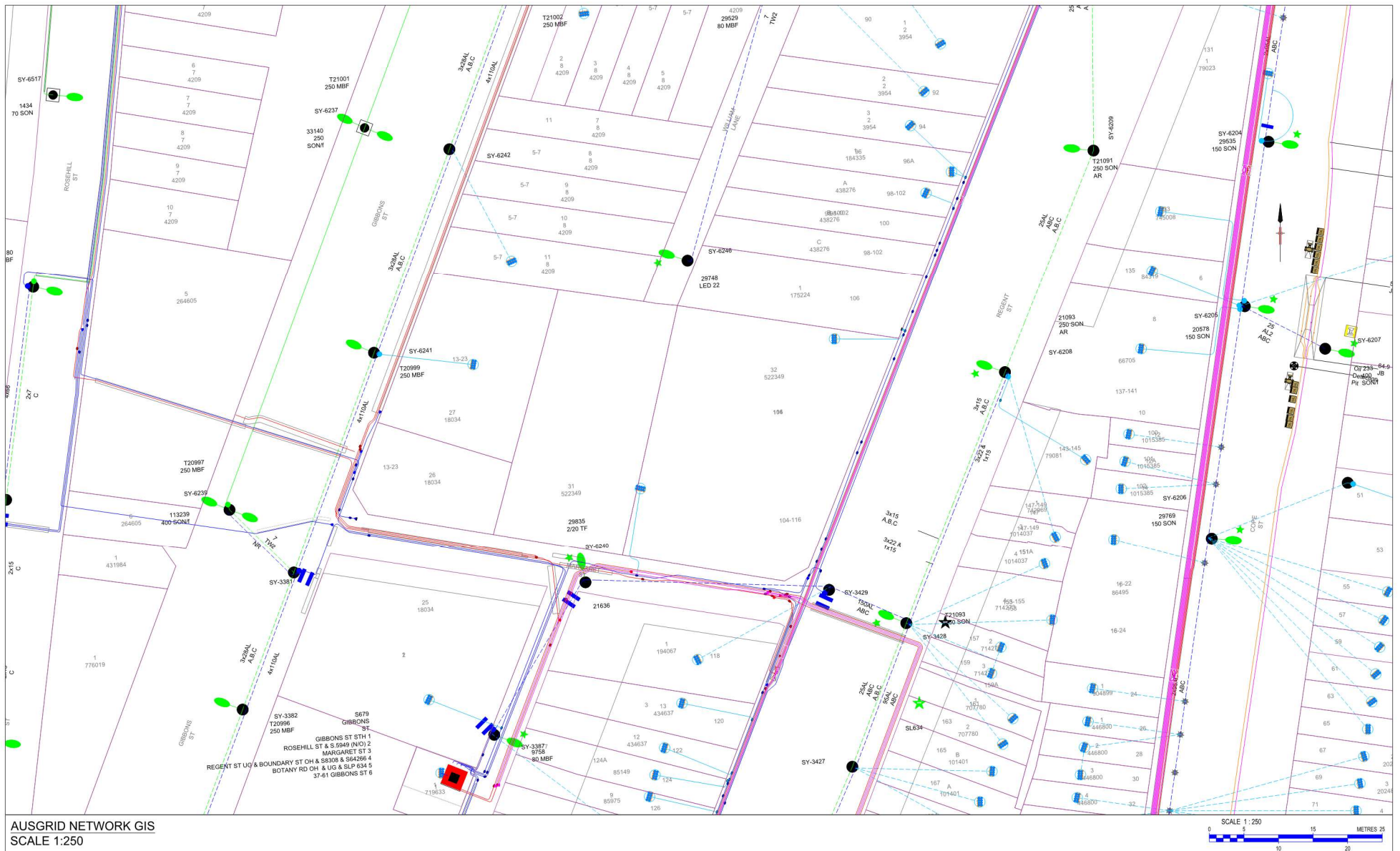
### 4.3 Water Services

It is proposed to connect into the 150 DICL water main running along Gibbons street, the pressure and flow inquiry is still pending response from Sydney water which will affect the size of systems installed

It is proposed to connect the sewer into the existing 225VC sewer main running along the rear of the building along Gibbons street, providing invert levels can be achieved.

At this stage the pressure and flow inquiry from Sydney water is still pending there response, at which stage updated connection details and services requirements can be provided.

## APPENDIX A – AUSGRID NETWORK DRAWING



LEGENDS		PROPOSED		EXISTING		PROPOSED		EXISTING		REMOVE	
Pole	○	●	●	●	●	UGOH O Pot End	○	UGOH O Pot End	○	UG Cables	—
SL Standard	□	■	■	■	■	Joint	●	Joint	●	OH Cables	—
LV Pole	□	■	■	■	■	Joint	●	Joint	●	LV	—
LV Link Pole	□	■	■	■	■	OH Lines	—	OH Lines	—	SL	—
Streetlight	○	●	●	●	●	UG Cables	—	UG Cables	—	HV	—
Streetlight-PEC	○	●	●	●	●	HV	—	HV	—	LV	—
Streetlight-replacement	○	●	●	●	●	LV	—	LV	—	SL	—
Private Pole	□	■	■	■	■	SV	—	SV	—	SL	—

**FOR INFORMATION ONLY**

## APPENDIX B – SYDNEY WATER





## APPENDIX C – DIAL BEFORE YOU DIG

### Caller Details

**Contact:** Mr David Huang  
**Company:** Arcadis  
**Address:** 141 Walker Street  
North Sydney NSW 2060

**Caller Id:** 1687345  
**Mobile:** Not Supplied  
**Email:** david.huang@arcadis.com  
**Phone:** 0289079261  
**Fax:** Not Supplied

### 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:** 09/08/2018  
**Start Date:** 12/08/2018  
**End Date:** 31/08/2018

**Address:**  
13-23 Gibbons Street  
Redfern NSW 2016

**Job Purpose:**

Excavation

**Location of Workplace:**

Both

**Onsite Activity:**

Mechanical 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:**

Not Supplied

### Your Responsibilities and Duty of Care

- 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](http://www.1100.com.au)
- For more information on safe excavation practices, visit [www.1100.com.au](http://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
74320645	AAPT / PowerTel, NSW	1800786306	NOTIFIED
74320652	AARNet Pty Ltd, Nsw	1300275662	NOTIFIED
74320644	Airport Rail Link	0298489578 / 0413006517	NOTIFIED
74320647	Ausgrid	0249510899	NOTIFIED
74320640	City of Sydney (IMS)	0292659819	NOTIFIED
74320657	Fiber Sense Pty Limited	0418654346	NOTIFIED
74320650	Jemena Gas South	1300880906	NOTIFIED
74320654	NBN Co, NswAct	1800626762	NOTIFIED
74320643	Nextgen, NCC - NSW	1800032532	NOTIFIED
74320649	Optus and/or Uecomm, Nsw	1800505777	NOTIFIED
74320646	PIPE Networks, Nsw	1800201100	NOTIFIED
74320642	RailCorp Central	0298489578 / 0413006517	NOTIFIED

74320641	Roads and Maritime Services	0288370285	NOTIFIED
74320651	Sydney Water	132092	NOTIFIED
74320648	Telstra NSW, Central	1800653935	NOTIFIED
74320656	TransGrid	0296200422	NOTIFIED
74320653	Vocus Communications	0283169853	NOTIFIED
74320655	Vocus Communications	0892446114	NOTIFIED

END OF UTILITIES LIST

## Response Cover Letter

Date: 09/08/2018

**AAPT (PowerTel) Limited**  
GPO Box 7041 Sydney 2001  
Phone: 1800 786 306  
A/H: 1800 786 306

To:  
Mr David Huang  
Arcadis  
141 Walker Street  
North Sydney NSW 2060  
- Customer ID: 1687345  
Email: david.huang@arcadis.com  
Phone: 0289079261  
Fax: Not Supplied  
Mobile: Not Supplied



Dear Mr David Huang

The following is our response to your Dial Before You Dig enquiry.

### **AAPT ASSETS ARE AFFECTED BY YOUR ENQUIRY 74320645**

**Sequence Number:** 74320645  
**Location:** 13-23 Gibbons Street  
Redfern  
NSW  
2016  
**Commencement Date:** 12/08/2018

In relation to your enquiry at the above address, AAPT (PowerTel) advises as follows.

The records of AAPT (PowerTel) Limited disclose that there are underground FIBRE OPTIC / TELECOMMUNICATIONS cables in the vicinity of the above enquiry.

Your enquiry has been dispatched to an AAPT (PowerTel) Route Technician who will contact you ASAP with further information regarding the exact location of the AAPT (PowerTel) network.

It is essential that no excavations are undertaken until you have been contacted by an AAPT (PowerTel) Representative. Your local AAPT (PowerTel) Field Representative can be contacted on ph: **0405 133 156**

Should the scope of your work or the area of your work change, please contact as below to receive further advice. Due to continued network expansion, the network information can only be considered valid and accurate for 28 days from issue.

AAPT will seek compensation for any damage to its network through negligence or ignorance of duty of care. Should you require any further information, please contact as below:

AAPT  
Ph: 1800 786 306

## **DUTY OF CARE**

Due to the nature of underground cables and the age of some cables and records the accuracy and/or completeness of the information cannot be guaranteed and, accordingly, they are indicative only and as a result AAPT (PowerTel) 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 onsite investigations are essential to locate an assets exact position.

The following minimum clearances must be maintained.

- 1) 300mm when laying asset's inline, horizontal or vertical.**
- 2) 500mm when operating vibrating equipment. Eg: Vibrating plates.**
- 3) 1000mm when operating mechanical excavators or Jackhammers.**

ON SITE LOCATING OF AAPT'S (POWERTEL) CABLING AND INFRASTRUCTURE MUST BE CONDUCTED BY AAPT'S (POWERTEL) PERSONNEL ONLY. AAPT (POWERTEL) WILL USE ALL LEGAL MEANS TO SEEK DAMAGES AND ANY OTHER REMEDIES AVAILABLE TO IT IN THE EVENT THAT ITS CABLE OR ANY OTHER NETWORK INFRASTRUCTURE IS DAMAGED BY YOU OR YOUR PERSONNEL AND/OR CONTRACTORS. IT IS AN OFFENCE TO OPEN ANY AAPT'S (POWERTEL) PITS OR MANHOLES AND/OR ANY ASSOCIATED INFRASTRUCTURE BELONGING TO OR PART OF AAPT'S (POWERTEL) NETWORK

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 & Manhole covers must not be disturbed. Hand excavation needs to be undertaken with extreme care to minimise the possibility of damage to the cable.

EG: Blades of hand equipment should be orientated parallel to the line of the cable rather than digging across the cable.

All personnel must be properly briefed, particularly those associated with the use of earth-moving equipment, trenching, boring and pneumatic equipment.

All excavations must be undertaken in accordance with the relevant legislation and regulations.

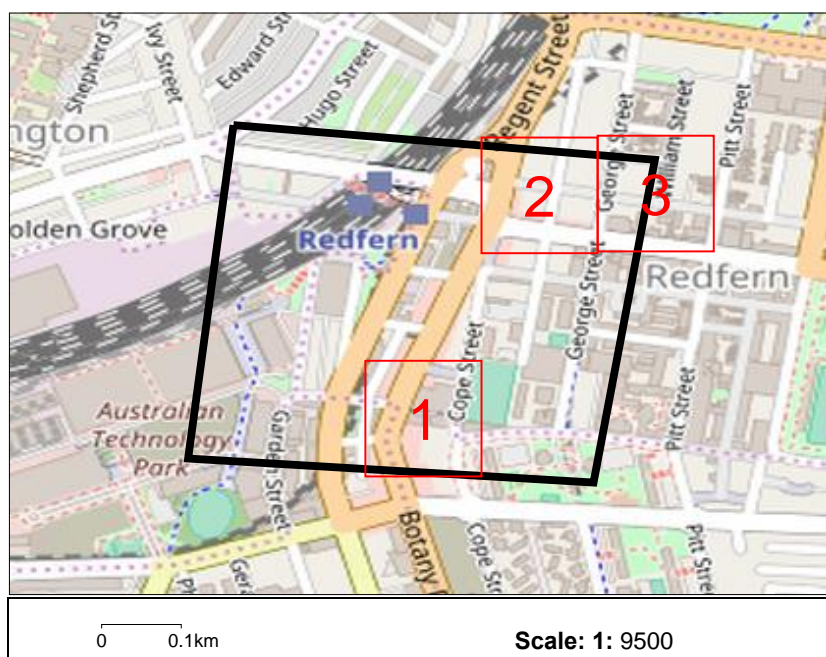
**ANY DAMAGE TO AAPT (POWERTEL) NETWORK MUST BE REPORTED IMMEDIATELY TO 1800 786 306**

Any information provided is valid only for 28 days from the date of issue of this document.

If the work operations extend beyond this period, or if the designs are altered in any way, you are requested to re-submit your proposal for re-assessment by contacting Dial Before You Dig ph:1100 or [www.dialbeforeyoudig.com.au](http://www.dialbeforeyoudig.com.au)

Onsite visits by AAPT (PowerTel) agents may incur costs, this would solely depend on the type and extent of the work to be carried out. EG: Major roadwork's, network relocation's, Large planning and design work's.

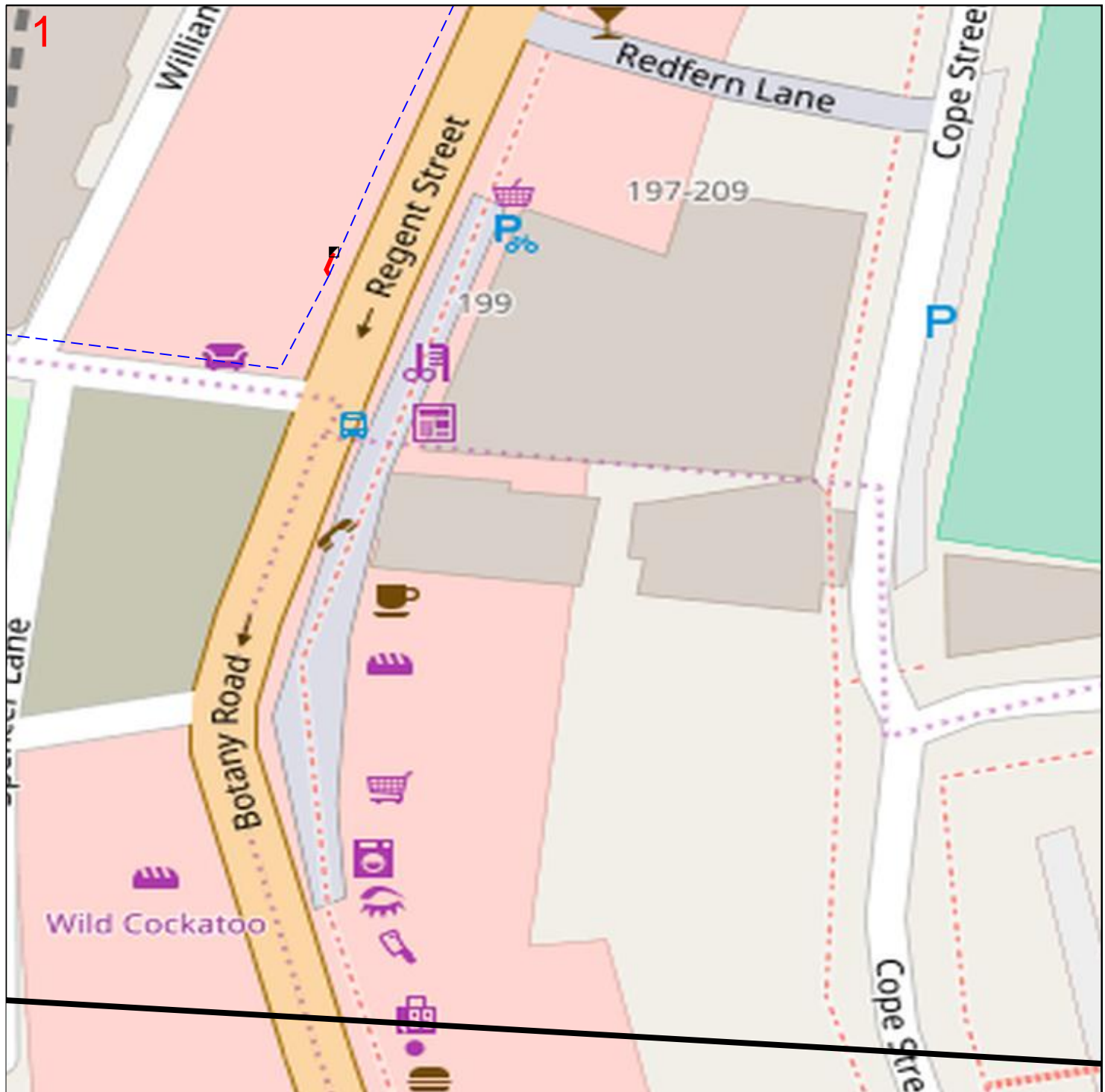
## **Overview Map**



AAPT (for information specific to this job only) Ph 1800 786 306



AAPT (PowerTel) Limited GPO Box 7041 Sydney 2001  
Phone: 1800 786 306 A/H 1800 786 306



**Enquiry Number:** 74320645

**Map Sheet:** 1

**Scale:** 1:750

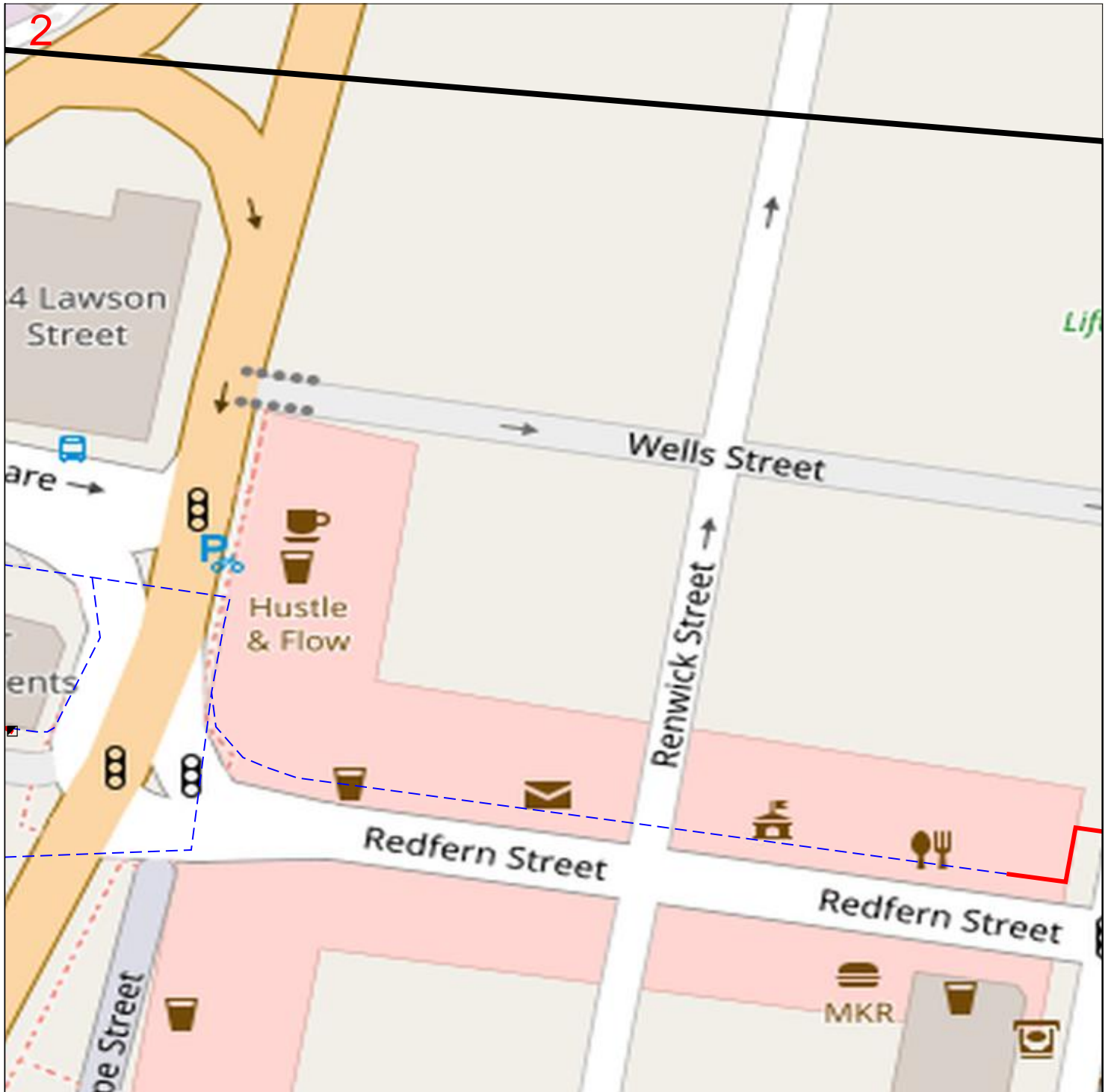
0 0.008km

**LEGEND:**

- DBYD Work Area
- AAPT Duct
- Non AAPT Duct
- AAPT Manhole



AAPT (PowerTel) Limited GPO Box 7041 Sydney 2001  
Phone: 1800 786 306 A/H 1800 786 306



Enquiry Number: 74320645

Map Sheet: 2

Scale: 1:750

0 0.008km

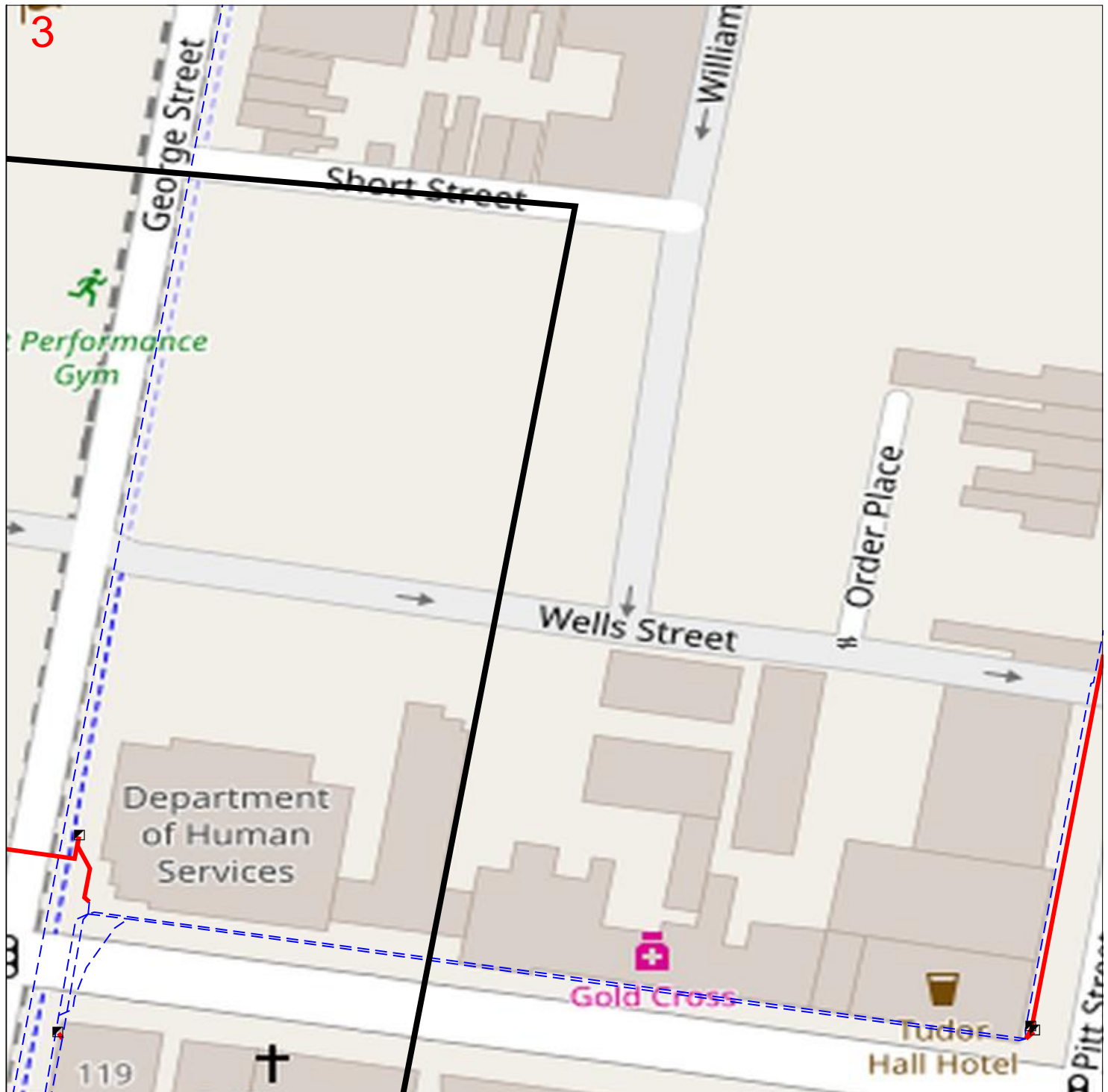
**LEGEND:**

- DBYD Work Area
- AAPT Duct
- Non AAPT Duct
- AAPT Manhole





AAPT (PowerTel) Limited GPO Box 7041 Sydney 2001  
Phone: 1800 786 306 A/H 1800 786 306



**Enquiry Number:** 74320645

**Map Sheet:** 3

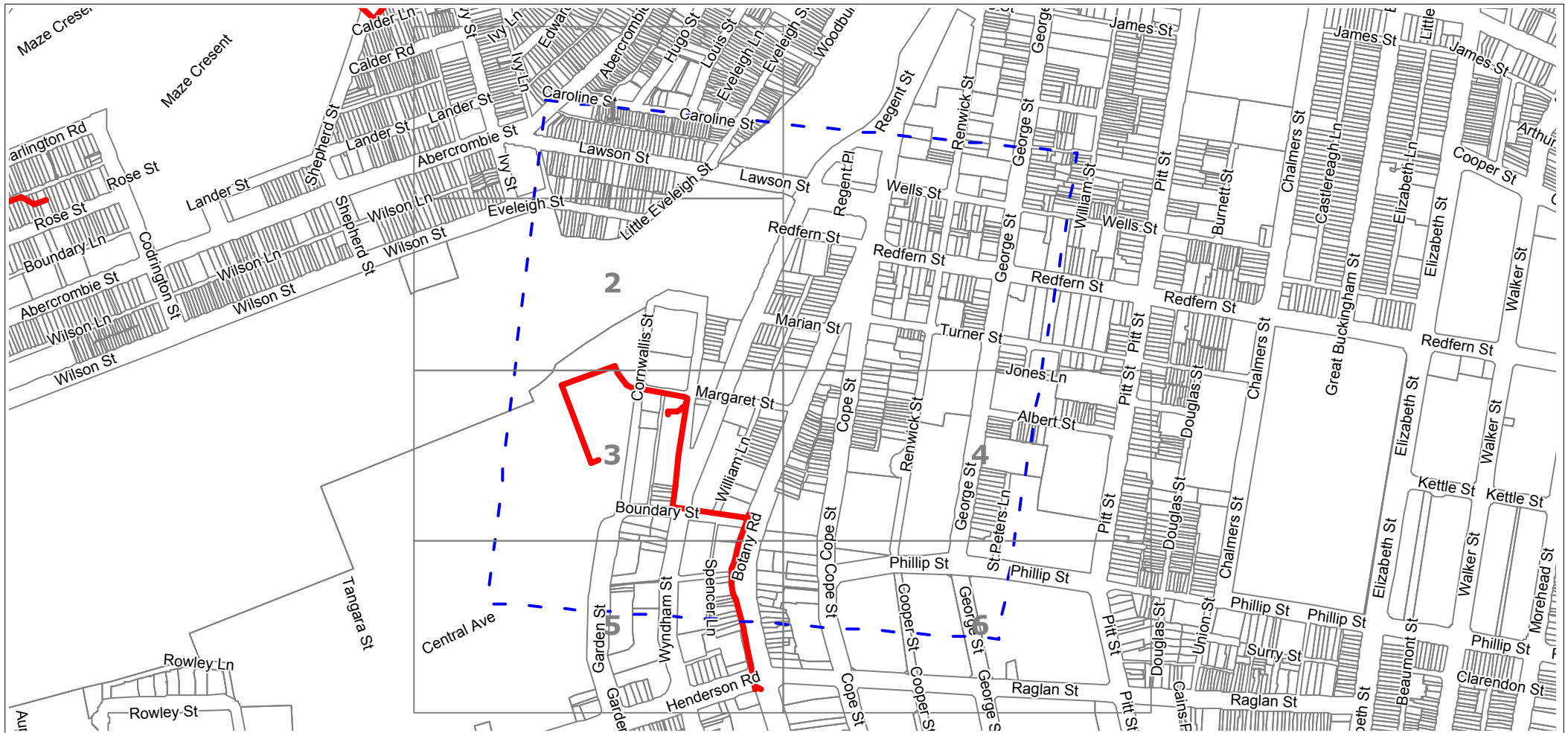
**Scale:** 1:750

0 0.008km

**LEGEND:**

- DBYD Work Area
- AAPT Duct
- - - Non AAPT Duct
- AAPT Manhole








**Create Date:** 09/08/2018

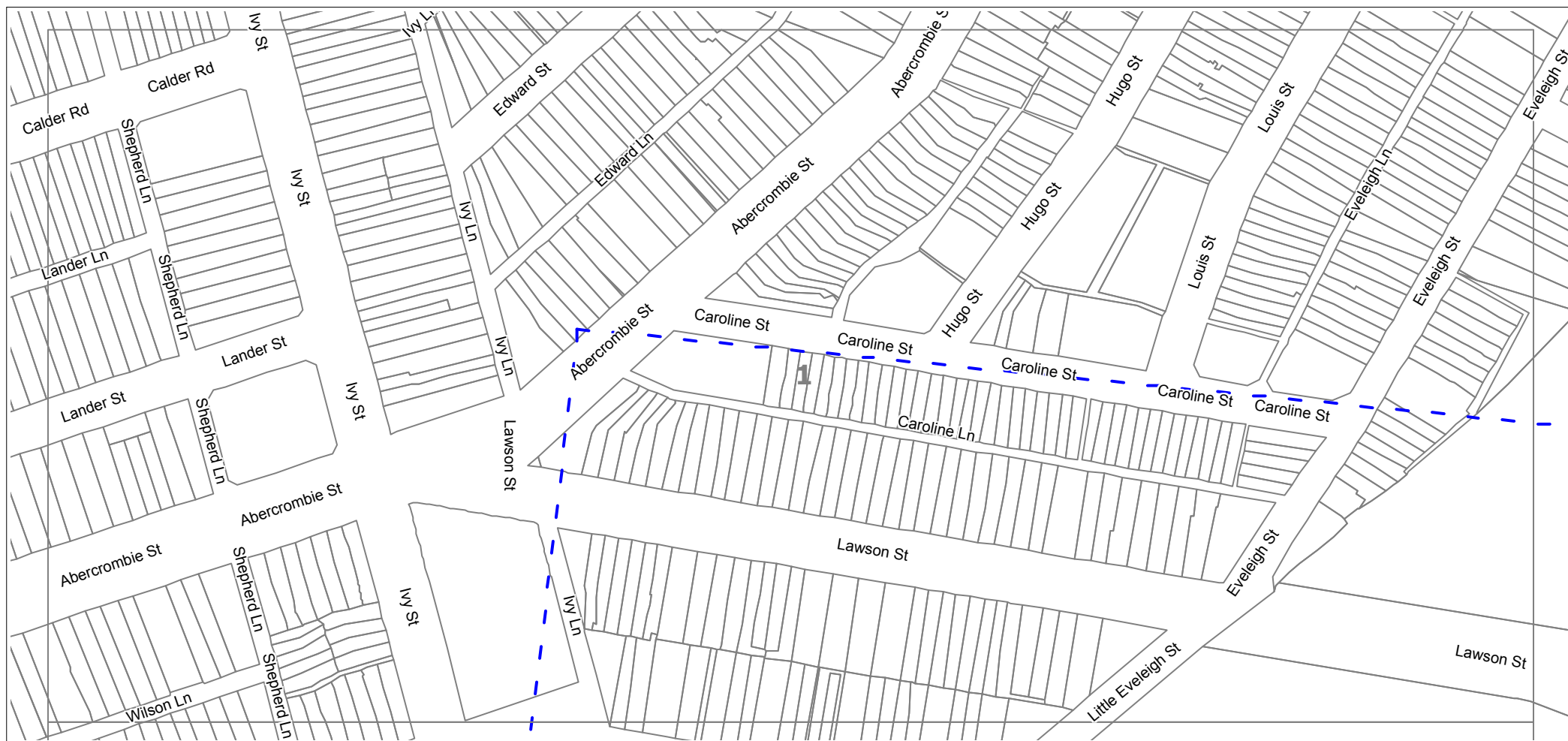
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Exact positions of any assets shown on this map report should be confirmed on site.



 Enquiry Area  
 AARNet Fibre Optic Assets  
 Cadastre



**Create Date:** 09/08/2018

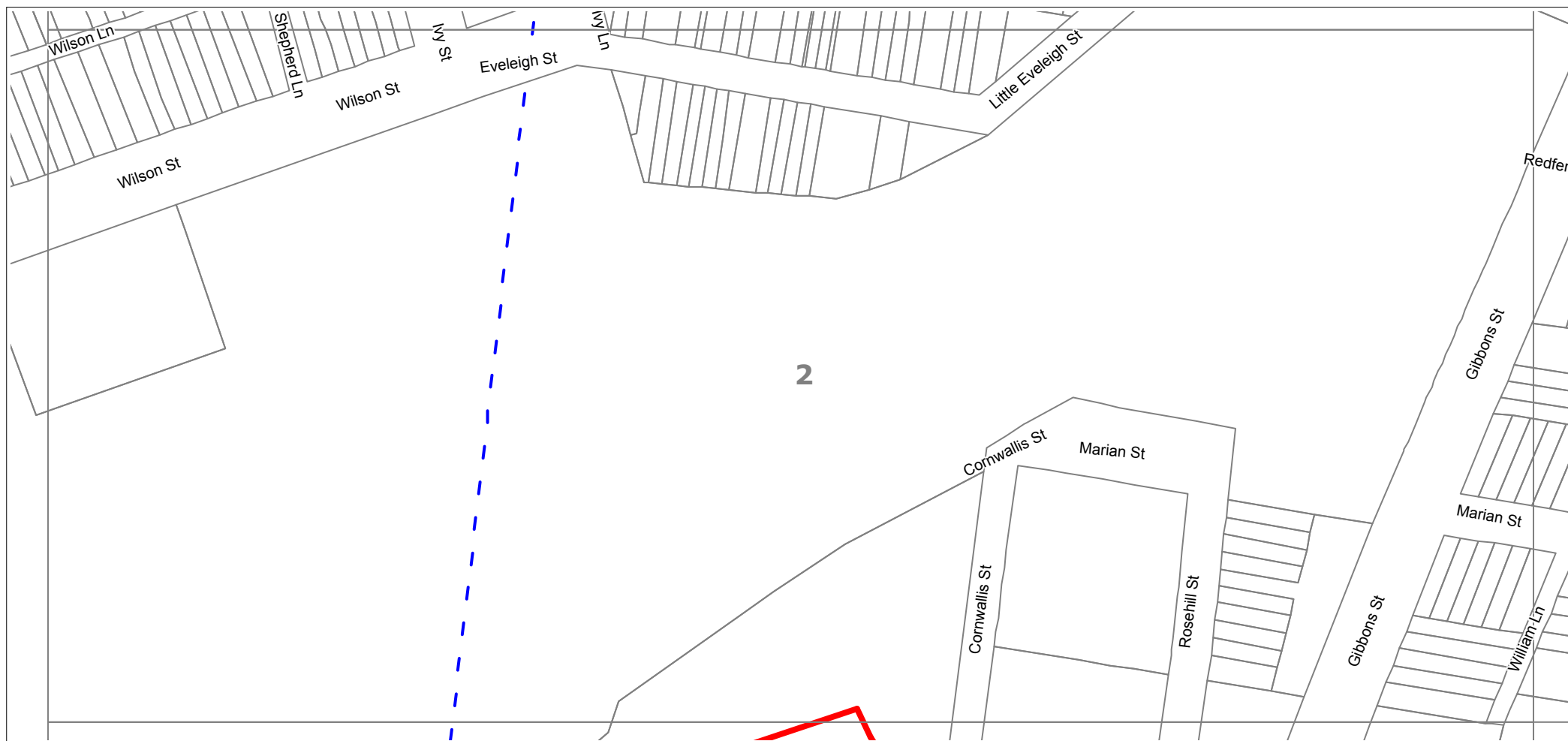
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- Enquiry Area
- AARNet Fibre Optic Assets
- Cadastre



**Create Date:** 09/08/2018

**Scale** 1:1500

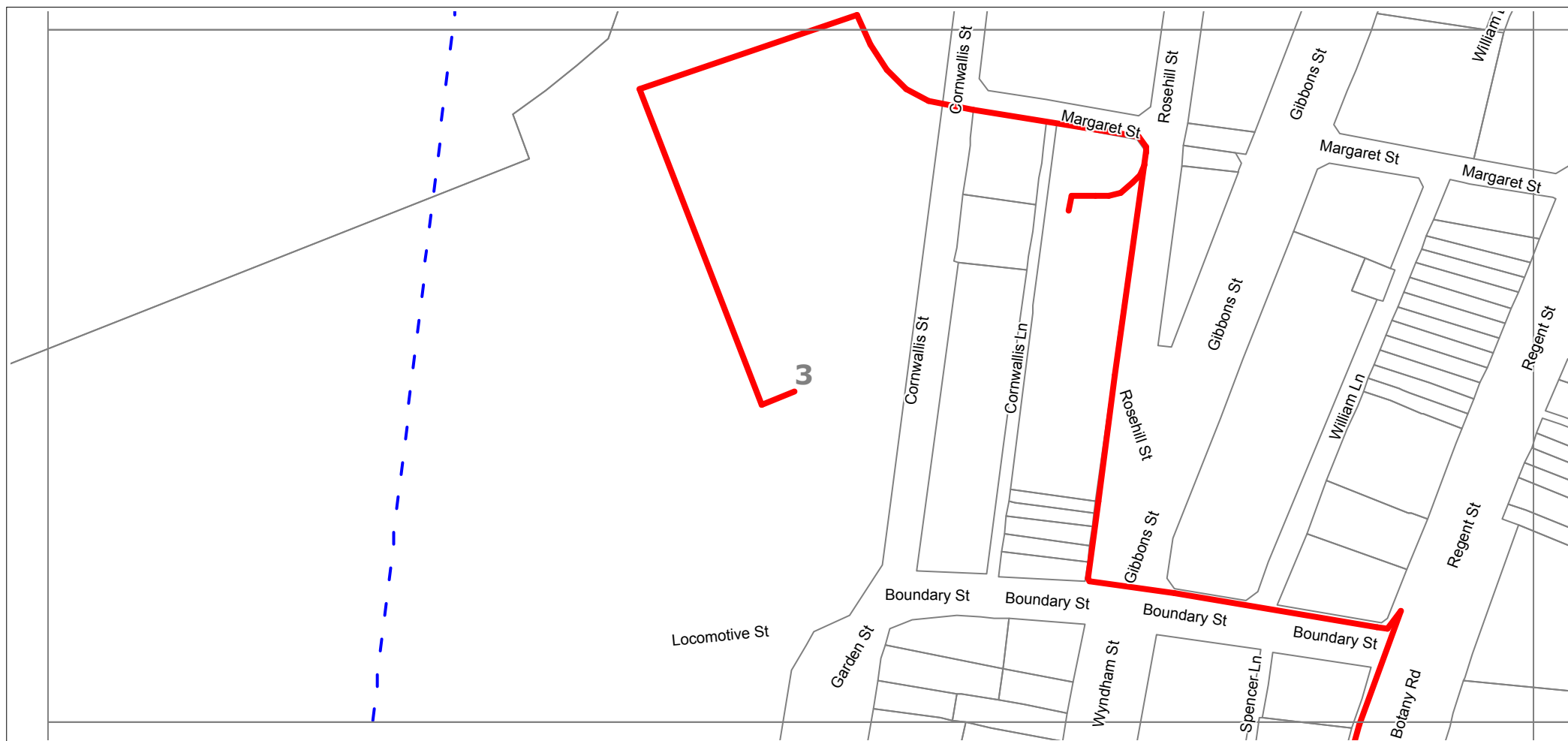
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- Enquiry Area
- AARNet Fibre Optic Assets
- Cadastre





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- Enquiry Area
- AARNet Fibre Optic Assets
- Cadastre



**Create Date:** 09/08/2018

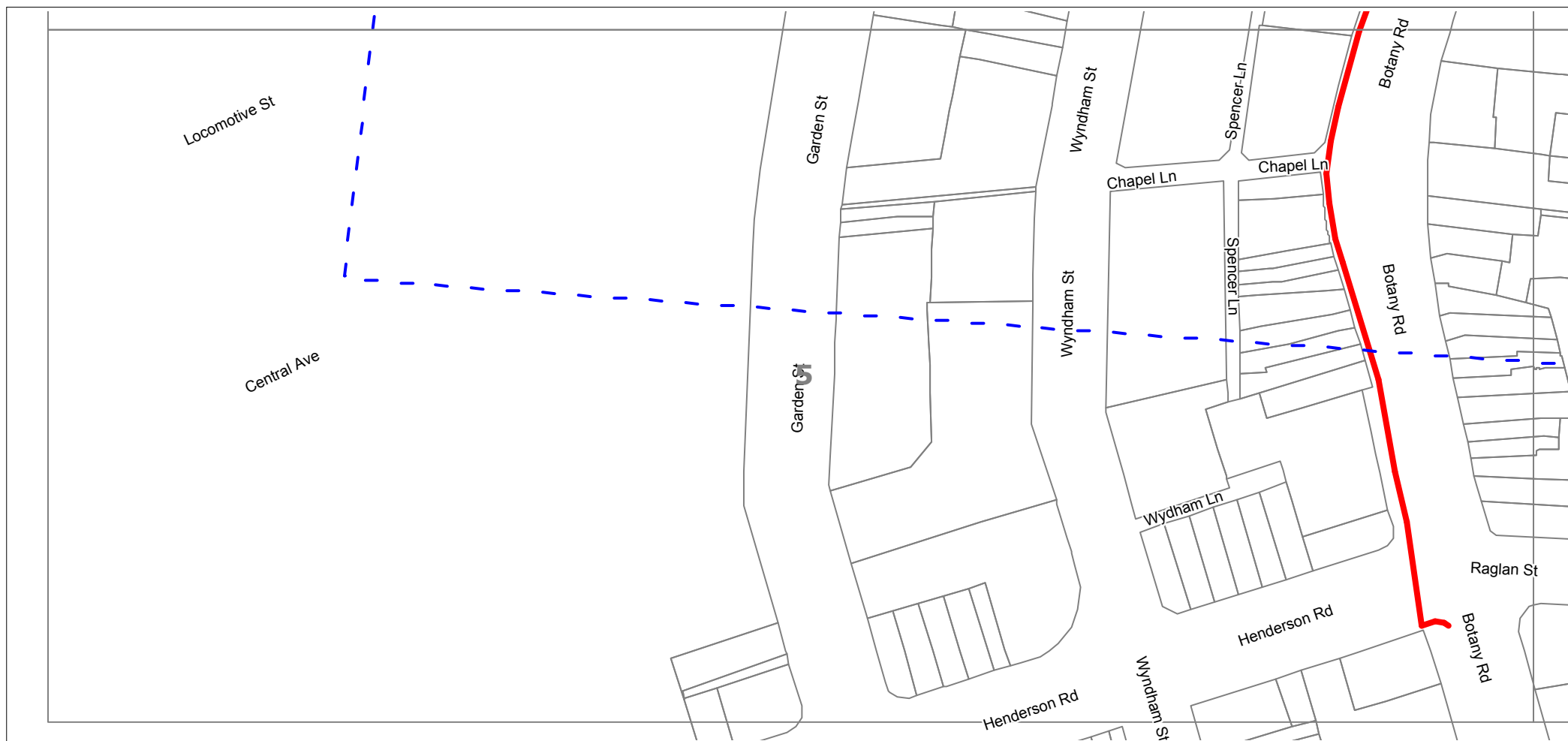
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- Enquiry Area
- AARNet Fibre Optic Assets
- Cadastre



**Create Date:** 09/08/2018

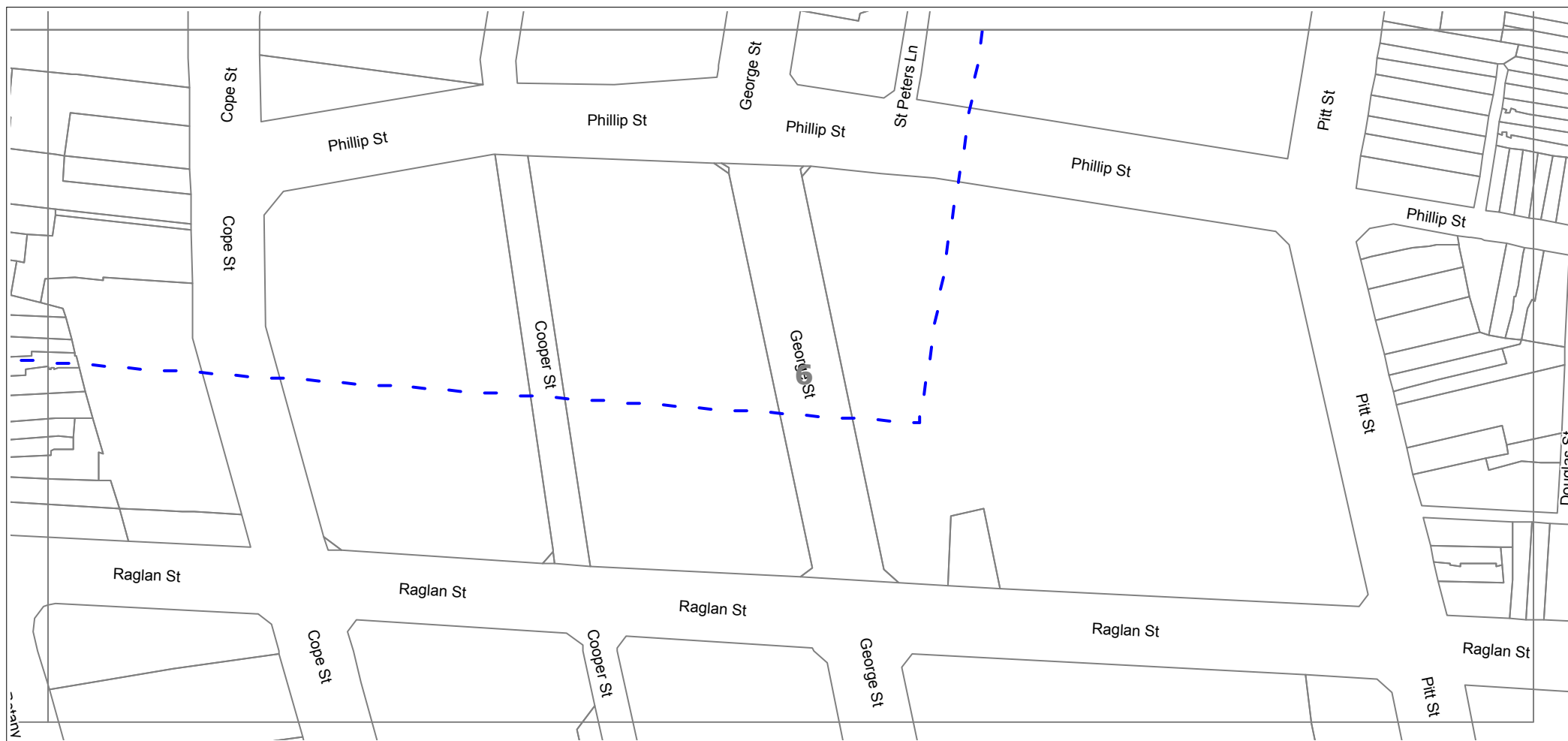
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Exact positions of any assets shown on this map report should be confirmed on site.



- Enquiry Area
- AARNet Fibre Optic Assets
- Cadastre



**Create Date:** 09/08/2018

**Scale** 1:1500

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**Exact positions of any assets shown on this map report should be confirmed on site.**



- Enquiry Area
- AARNet Fibre Optic Assets
- Cadastre



## Dial Before You Dig (DBYD): Asset Location Response

Arcadis - Mr David Huang  
141 Walker Street  
North Sydney NSW 2060  
david.huang@arcadis.com

City of Sydney has been advised that you have placed an enquiry through the Dial Before You Dig service. Our records indicate the enquiry with the following details are affecting City of Sydney asset(s) as per the attached plans.

Enquiry Details	
Sequence Number	74320640
Enquiry Date	09/08/2018 11:55
Response	<b>AFFECTED</b>
Address	13-23 Gibbons Street Redfern
Location in Road	CarriageWay, Footpath, Nature Strip
Activity	Mechanical Excavation

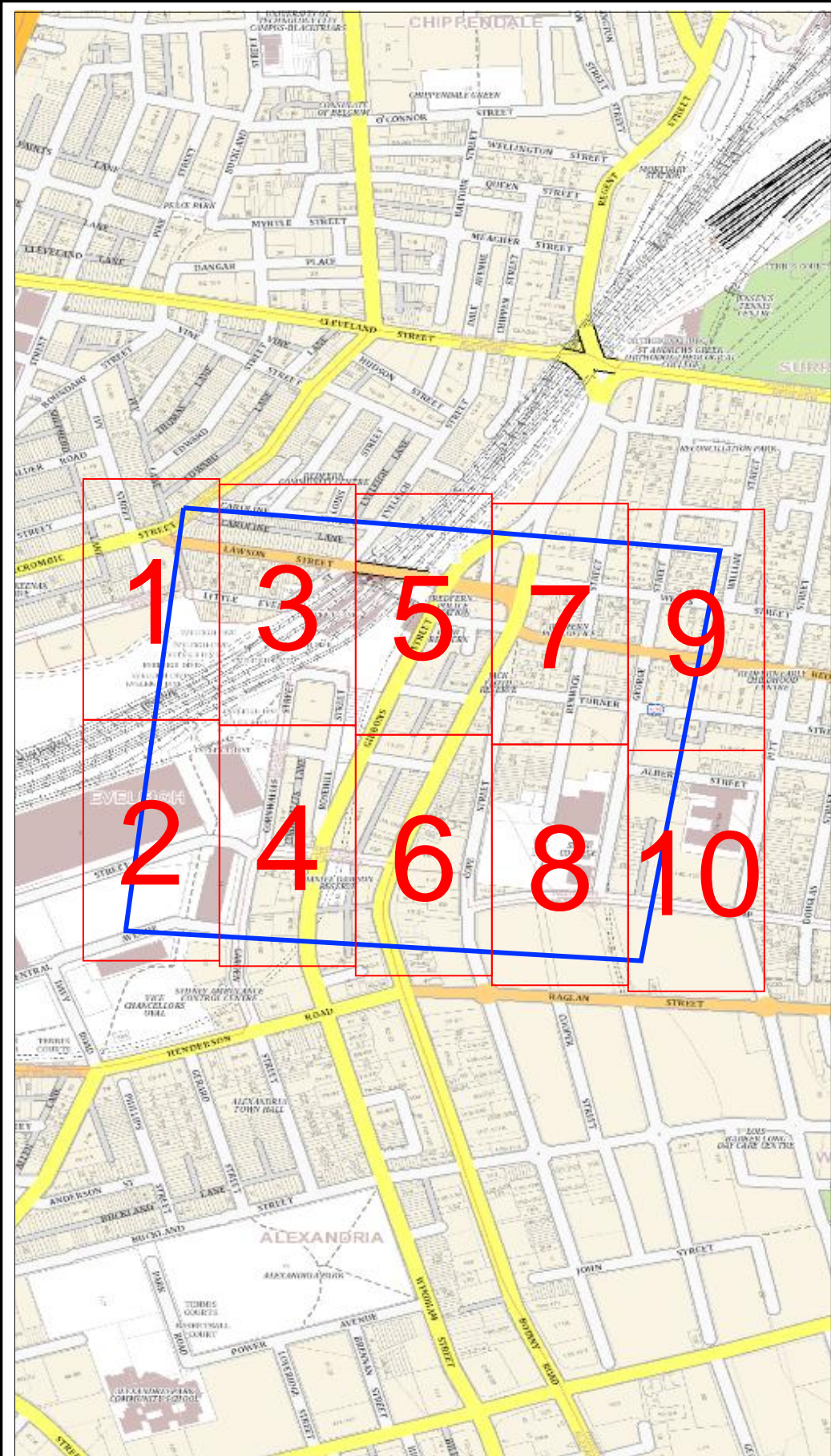
**It is important to read and understand all the information and disclaimers provided below and the responsibilities outlined in the attachment prior to commencing work(s)**

Due to the nature and the age of assets and records, the accuracy and/or completeness of the information in the attached plan(s) cannot be guaranteed. The City does not make any representation or give any guarantee, warranty or undertaking as to the accuracy, currency, completeness, effectiveness or reliability of the information.

**Plan(s) are indicative only and all information needs to be verified through field survey including the use of appropriately qualified personnel and equipment.**

This information has been generated by an automated system based on the information specified by the Enquirer. It is the Enquirer's responsibility to ensure that the work site has been properly identified and is accurately reflected in the information provided by the City. If the information does not match the work site, resubmit your enquiry for the correct site.

To the extent of any inconsistency, the information contained in this document will prevail over any other information provided to you by the City and Dial Before You Dig.

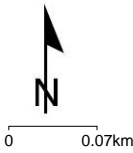


**LEGEND:**

Affected DBYD Work Area

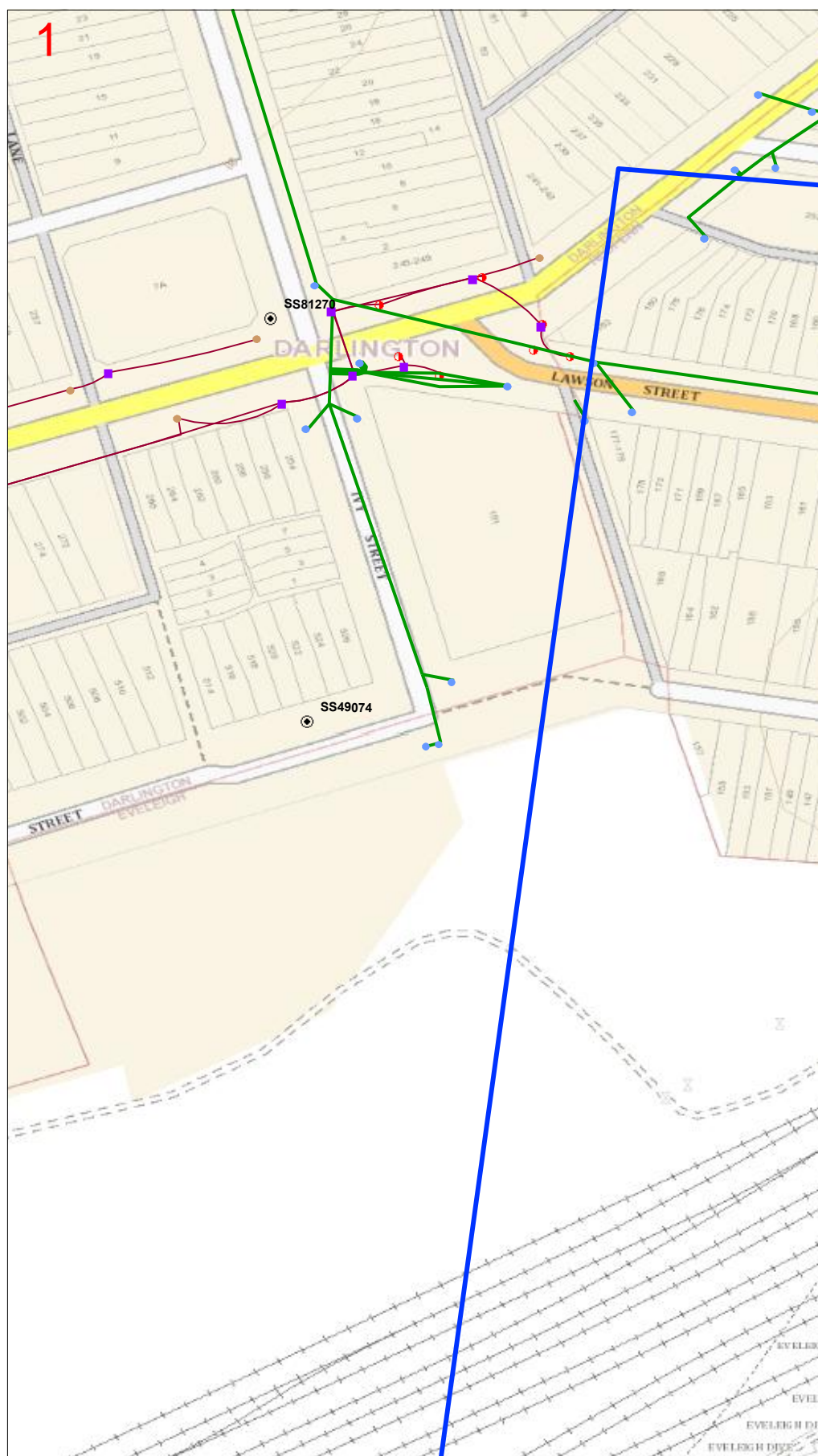
1

Detail Map

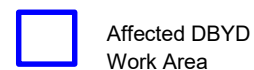


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#### LEGEND:



Affected DBYD Work Area

#### Survey Infrastructure

- ☒ Permanent Mark
- △ Trigonometrical Station
- ⊙ State Survey Mark
- ✚ Miscellaneous Mark
- ◇ Cadastral Reference Mark

#### Stormwater

- ★ Stormwater Gross Pollutant Traps
- Stormwater Structures
- Stormwater Conduit
- Stormwater Raingardens

#### Electrical

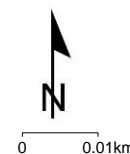
- Lightning Points
- Smart Poles

#### Electrical Services

- Main Switch Board
- Distribution Board
- Special Small Service
- Electrical Pit
- Supply Feature
- ▲ Other

#### Electrical Conduits & Cables

- Underground
- - - Building
- . - . Aerial

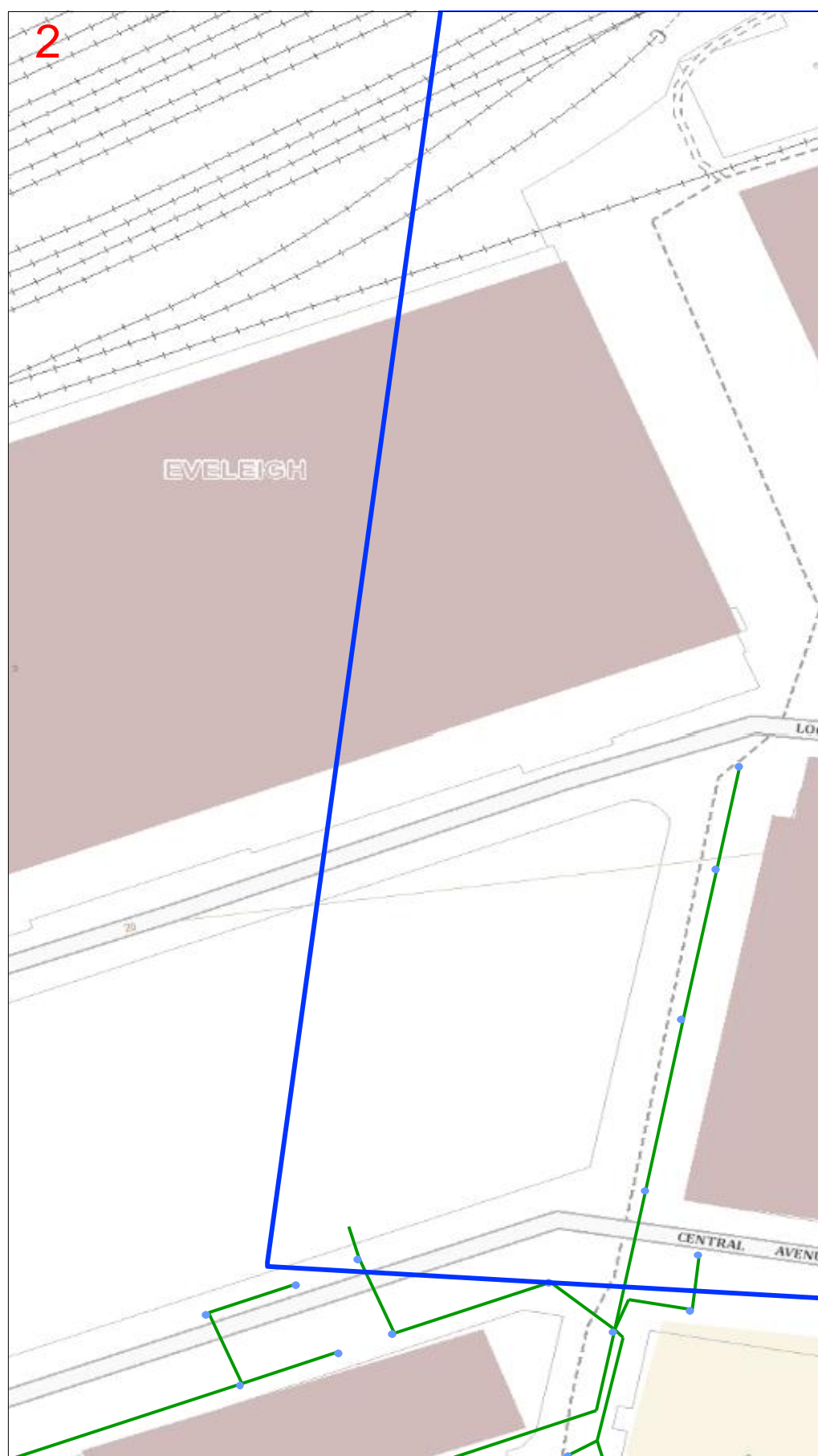


#### Disclaimer:

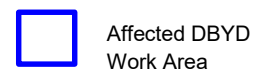
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### LEGEND:



Affected DBYD Work Area

### Survey Infrastructure

- ☒ Permanent Mark
- △ Trigonometrical Station
- ⊙ State Survey Mark
- ✚ Miscellaneous Mark
- ◇ Cadastral Reference Mark

### Stormwater

- ★ Stormwater Gross Pollutant Traps
- Stormwater Structures
- Stormwater Conduit
- Stormwater Raingardens

### Electrical

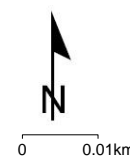
- Lightning Points
- Smart Poles

### Electrical Services

- Main Switch Board
- Distribution Board
- Special Small Service
- Electrical Pit
- Supply Feature
- ▲ Other

### Electrical Conduits & Cables

- Underground
- - - Building
- . - . Aerial

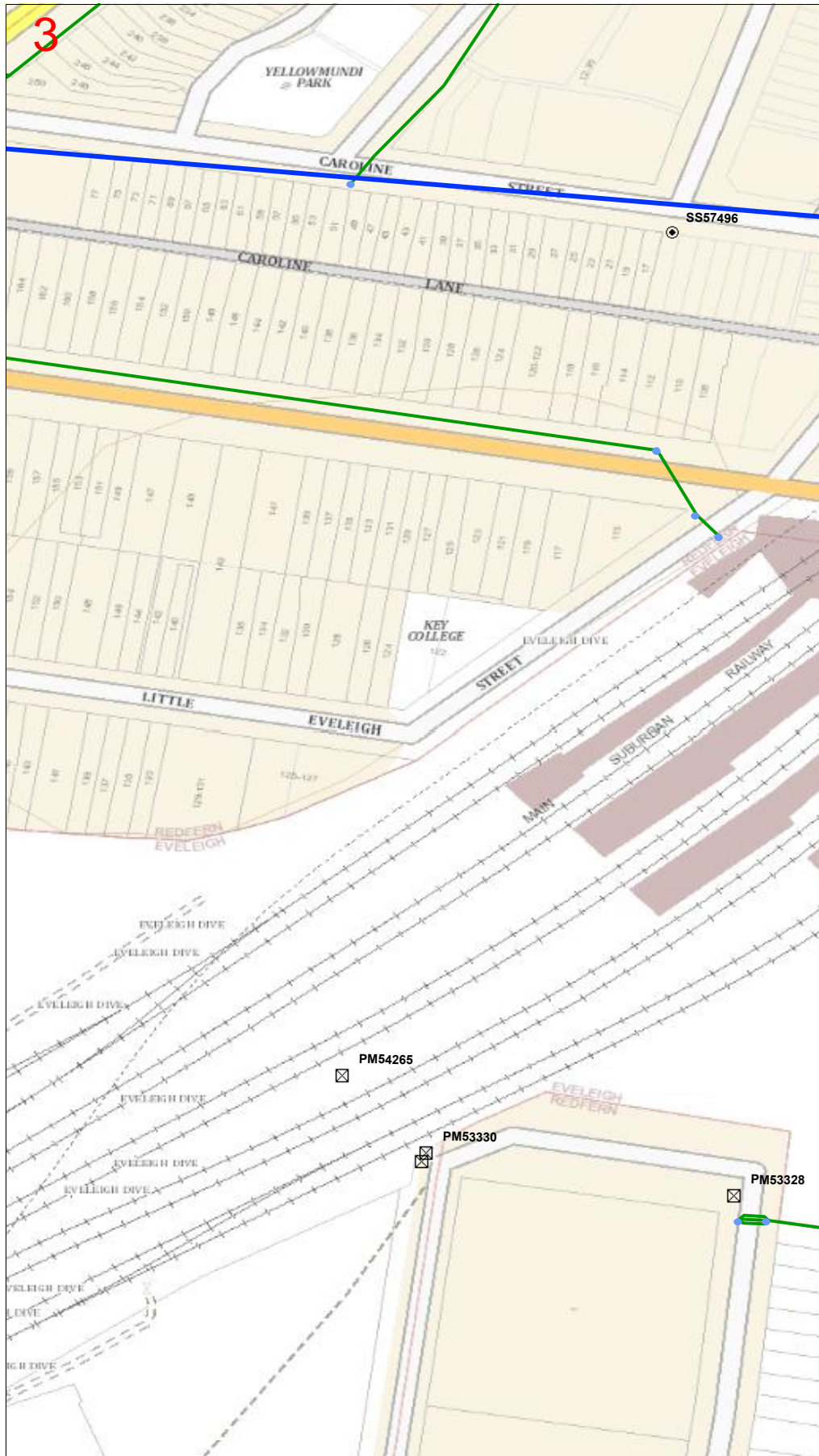


### Disclaimer:

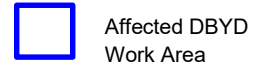
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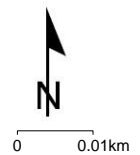
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- Underground
- - - Building
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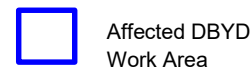
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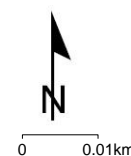
- Lightning Points
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#### Electrical Services

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#### Electrical Conduits & Cables

- Underground
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#### Disclaimer:

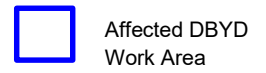
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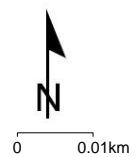
- Lighting Points
- Smart Poles

#### Electrical Services

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#### Electrical Conduits & Cables

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- - - Building
- ... Aerial



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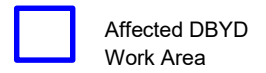
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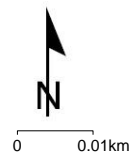
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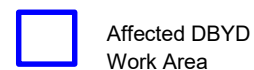
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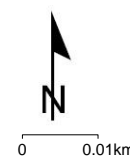
- Lightning Points
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#### Electrical Conduits & Cables

- Underground
- - - Building
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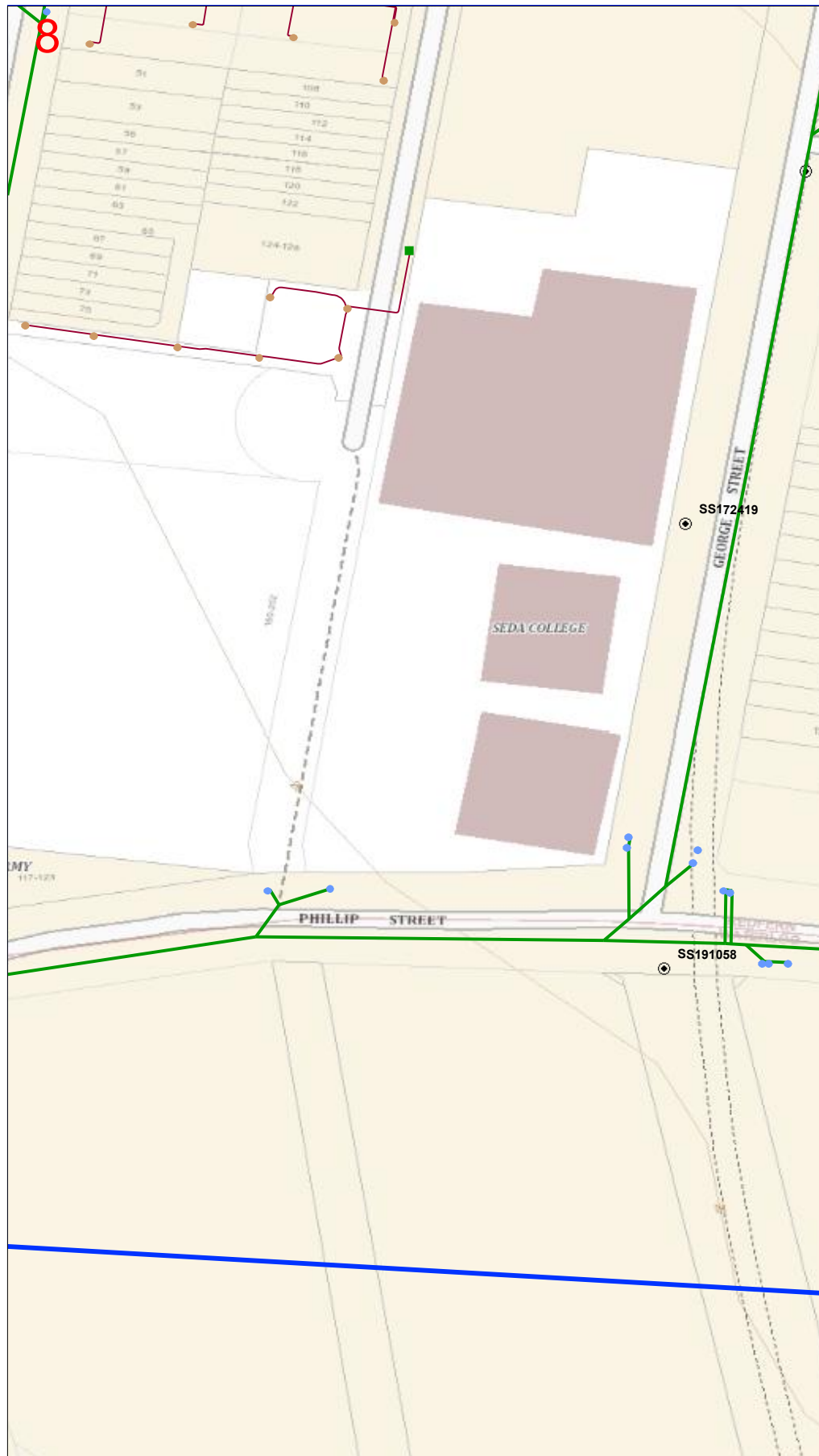


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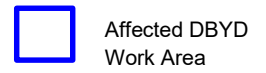
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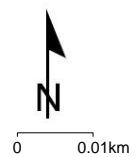
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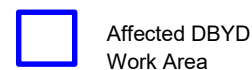
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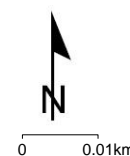
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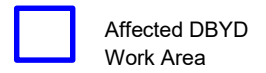
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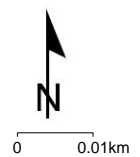
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#### Electrical Conduits & Cables

- Underground
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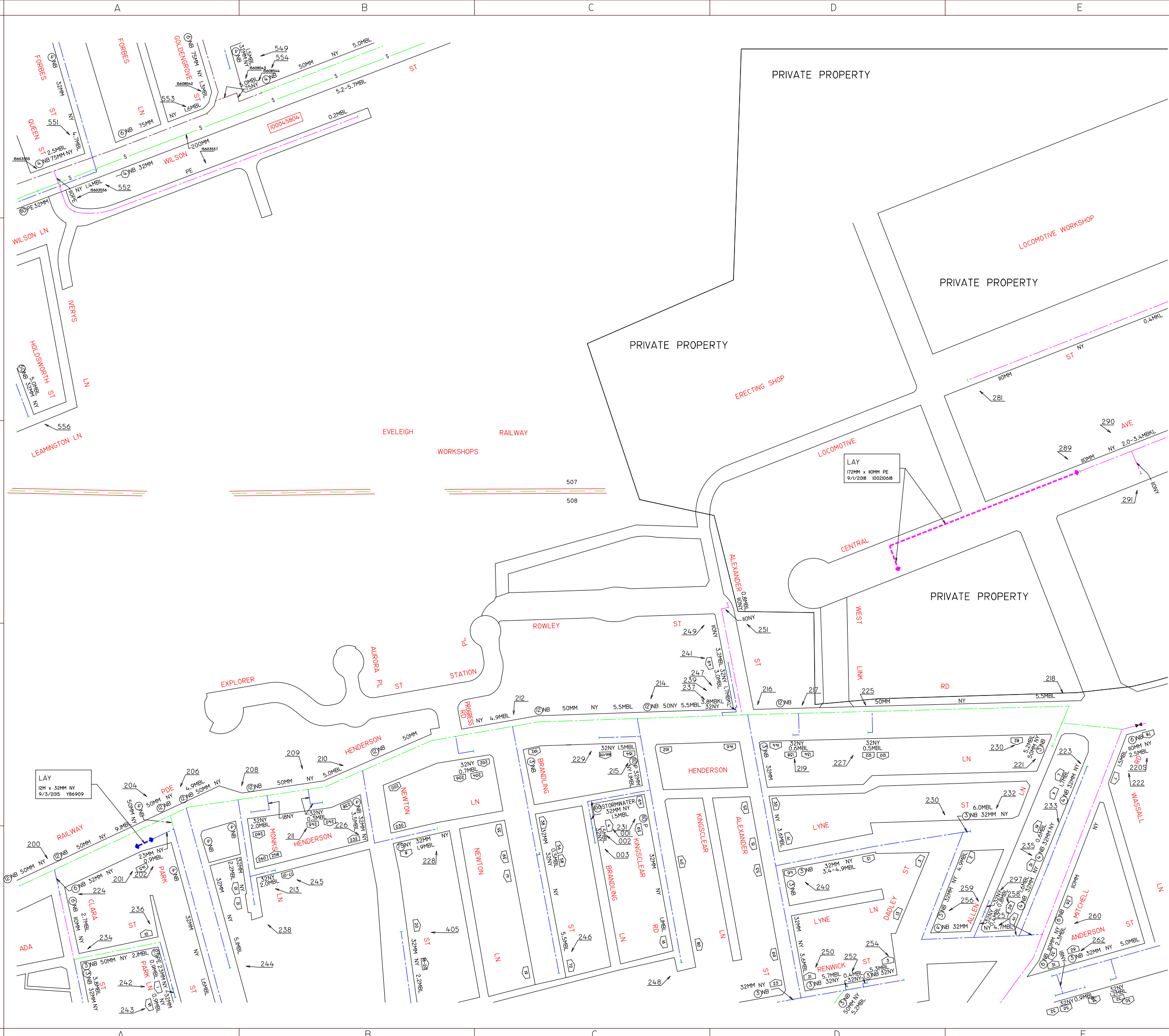


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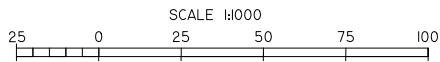
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LEICHHARDT  
6DD



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THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES  
SCALED FROM THIS PLAN MAY NOT BE ACCURATE.

LE6DA	LE6DB	S4CA
LE6DC	LE6DD	S4CC
LE9BA	LE9BB	S7AA

ADJOINING MAPS

507	MARRICKVILLE
508	

NETWORK AREA      MUNICIPALITY AREA

Jemena

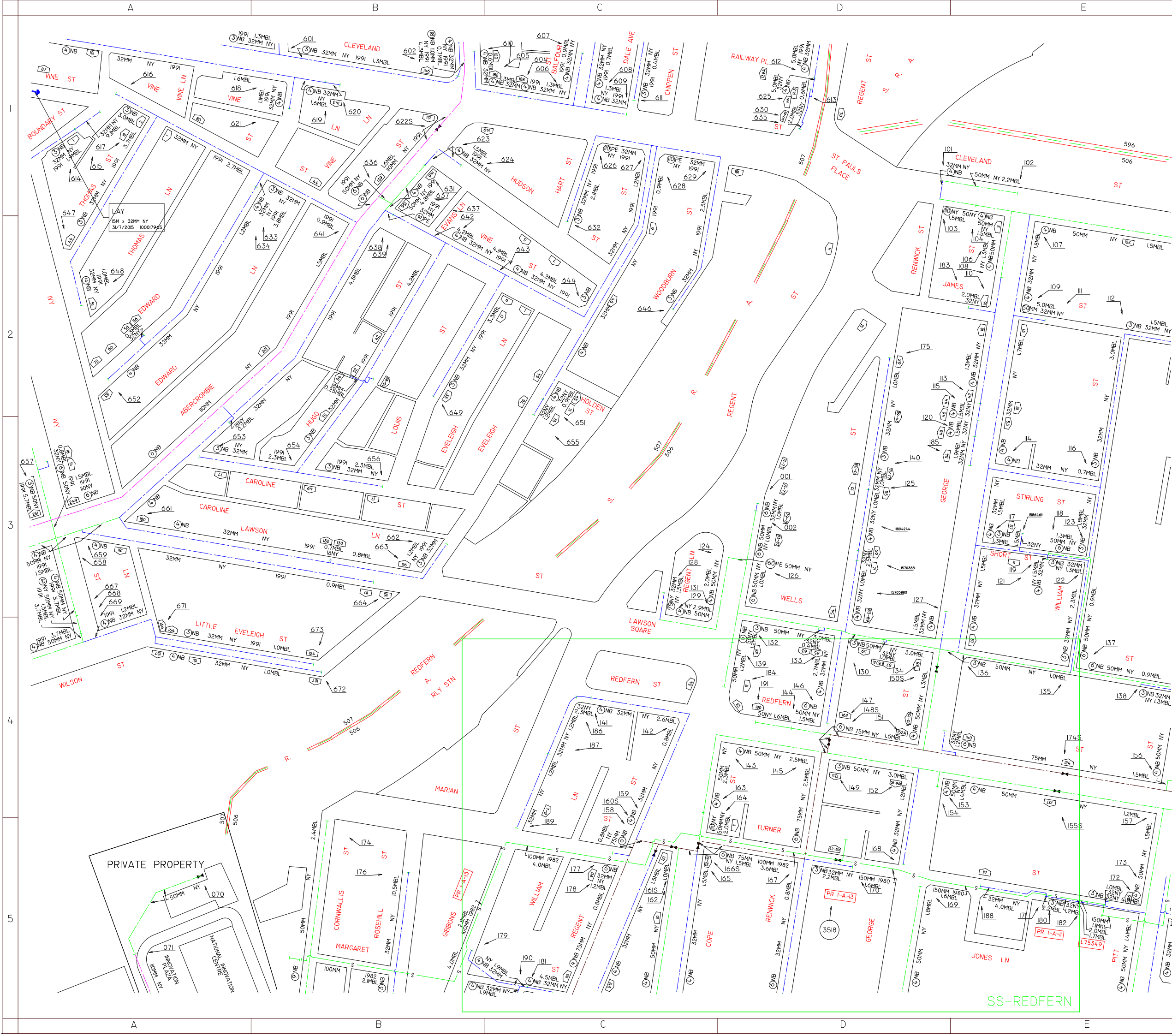
KEY

MAX ALLOWABLE OPERATING PRESSURE

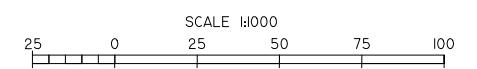
T	TRUNK PIPELINE	7000 kPa
P	PRIMARY MAIN	3500kPa
S	SECONDARY MAIN	1050 kPa
400	NETWORK MAIN	400 kPa
	NETWORK MAIN	300 kPa
	NETWORK MAIN	210 kPa
100	NETWORK MAIN	100 kPa
30	NETWORK MAIN	30 kPa
	NETWORK MAIN	7 kPa
	NETWORK MAIN	2 kPa
	NETWORK MAIN WITH MAIN STUBS	
PR #1-2 3	PROPOSED MAINS	
P	STEEL MAIN PROJECT NUMBER	
Valve symbol	PRESSURE MONITORING STATION	
Valve symbol	VALVE	
Regulator symbol	SYSTEM PRESSURE REGULATOR	
S	SIPHON	
123	NETWORK NODES	
123S	NETWORK VALVE NODE	
Valve symbol	VALVE NUMBER	
6NB	6 INCH CAST IRON MAIN	
150MM	150MM STEEL MAIN	
110MM PE/NY	110MM POLYETHYLENE/NYLON MAIN	
6NB 50MM NY	50MM NYLON INSERTED INTO 6NB MAIN CAST IRON MAIN	
1.2MBL	DISTANCE IN METRES OF MAIN FROM BOUNDARY LINE	
1957	YEAR LAID	
+++-	MUNICIPALITY BOUNDARY	
==	NETWORK BOUNDARY	
123	HOUSE NUMBER	

LEICHHARDT 6DD





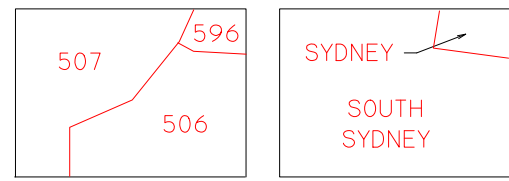
# SYDNEY 4CA



THIS MAP UPDATED ON 09/08/2017  
THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES  
SCALED FROM THIS PLAN MAY NOT BE ACCURATE.

LE6BD	S4AC	S4AD
LE6DB	S4CA	S4CB
LE6DD	S4CC	S4CD

ADJOINING MAPS



NETWORK AREA MUNICIPALITY AREA

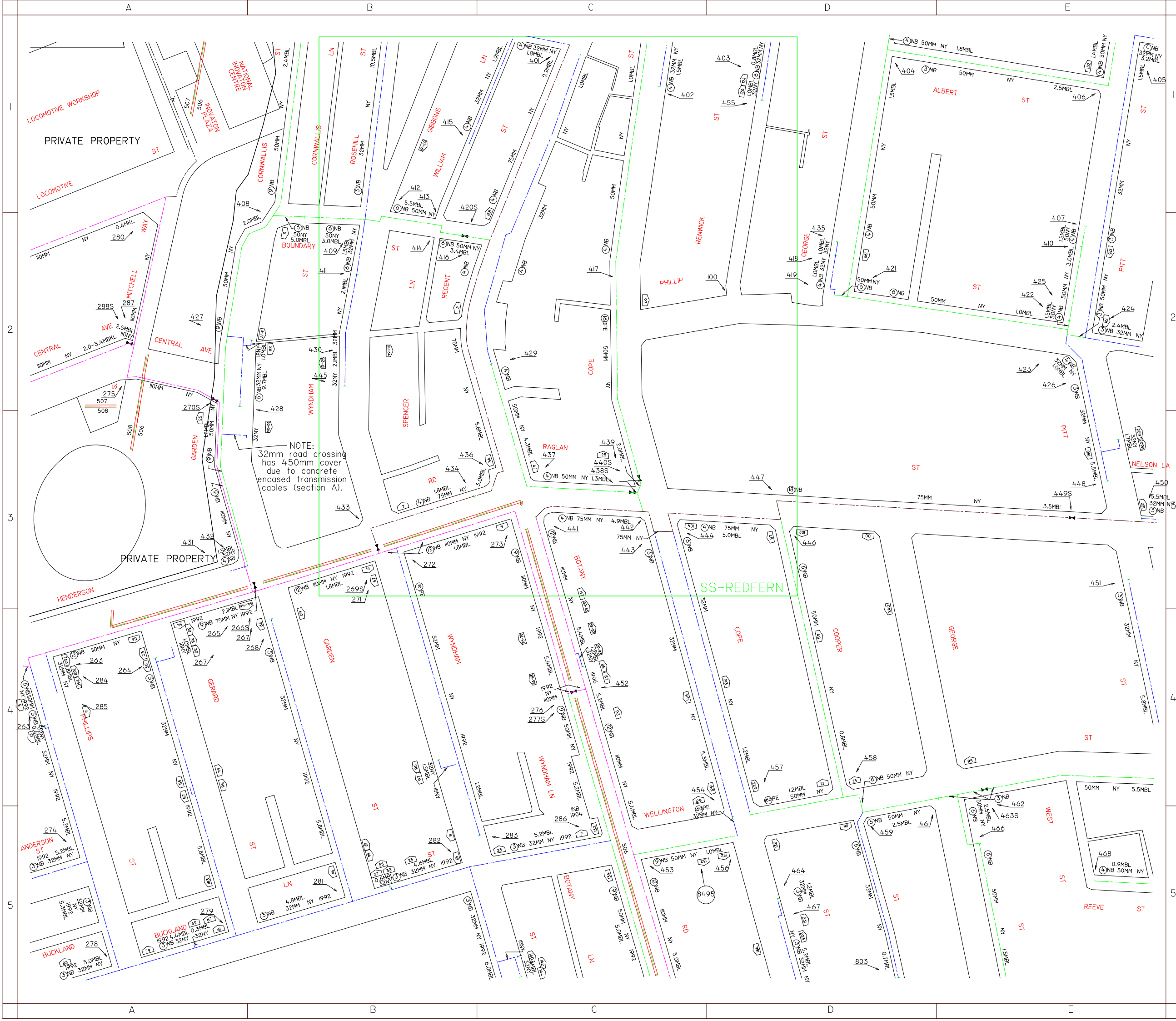
## Jemena

### KEY

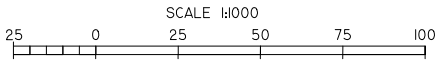
MAX ALLOWABLE OPERATING PRESSURE

T	TRUNK PIPELINE	7000 kPa
P	PRIMARY MAIN	3500kPa
S	SECONDARY MAIN	1050 kPa
400	NETWORK MAIN	400 kPa
300	NETWORK MAIN	300 kPa
210	NETWORK MAIN	210 kPa
100	NETWORK MAIN	100 kPa
30	NETWORK MAIN	30 kPa
7	NETWORK MAIN	7 kPa
2	NETWORK MAIN	2 kPa
PR 1-2 3	NETWORK MAIN WITH MAIN STUBS	
PR 1-2 3	PROPOSED MAINS	
P	STEEL MAIN PROJECT NUMBER	
P	PRESSURE MONITORING STATION	
V	VALVE	
S	SYSTEM PRESSURE REGULATOR	
S	SIPHON	
123	NETWORK NODES	
123S	NETWORK VALVE NODE	
6NB	6 INCH CAST IRON MAIN	
150MM	150MM STEEL MAIN	
110MM PE/NY	110MM POLYETHYLENE/NYLON MAIN	
50MM NY	50MM NYLON INSERTED INTO	
50MM NY	6NB MAIN CAST IRON MAIN	
1.2MBL	DISTANCE IN METRES OF MAIN FROM	
1.2MBL	BOUNDARY LINE	
1957	YEAR LAID	
---	MUNICIPALITY BOUNDARY	
---	NETWORK BOUNDARY	
123	HOUSE NUMBER	

SYDNEY 4CA



SYDNEY  
4CC



THIS MAP UPDATED ON 08/10/2014  
THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES  
SCALED FROM THIS PLAN MAY NOT BE ACCURATE.

LE6DB	S4CA	S4CB
LE6DD	S4CC	S4CD
LE9BB	S7AA	S7AB

ADJOINING MAPS



NETWORK AREA

MUNICIPALITY AREA

Jemena

KEY

MAX ALLOWABLE OPERATING PRESSURE

T	TRUNK PIPELINE	7000 kPa
P	PRIMARY MAIN	3500kPa
S	SECONDARY MAIN	1050 kPa
400	NETWORK MAIN	400 kPa
	NETWORK MAIN	300 kPa
	NETWORK MAIN	210 kPa
100	NETWORK MAIN	100 kPa
30	NETWORK MAIN	30 kPa
	NETWORK MAIN	7 kPa
	NETWORK MAIN	2 kPa
	NETWORK MAIN WITH MAIN STUBS	
PR #1-2-3	PROPOSED MAINS	
P	STEEL MAIN PROJECT NUMBER	
	PRESSURE MONITORING STATION	
	VALVE	
	SYSTEM PRESSURE REGULATOR	
S	SIPHON	
123	NETWORK NODES	
123S	NETWORK VALVE NODE	
	VALVE NUMBER	
6NB	6 INCH CAST IRON MAIN	
150MM	150MM STEEL MAIN	
110MM PE/NY	110MM POLYETHYLENE/NYLON MAIN	
6NB 50MM NY	50MM NYLON INSERTED INTO 6NB MAIN CAST IRON MAIN	
1.2MBL	DISTANCE IN METRES OF MAIN FROM BOUNDARY LINE	
1957	YEAR LAID	
---	MUNICIPALITY BOUNDARY	
---	NETWORK BOUNDARY	
123	HOUSE NUMBER	

SYDNEY 4CC



# Network Protection

## High Pressure - Assets Affected

In reply to your enquiry, there are **High Pressure Gas Mains** 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, as discussed in the warning below. For an explanation of the map, please see the key below.
































The following excavations guidelines apply:

### Excavation Guidelines:

Prior to **any** excavations in this area, you **must** contact the High Pressure Response Coordinator on **1300 665 380**. **(Appointments will be coordinated with availability of a Jemena Representative)** to arrange a survey. For all works in the vicinity of High Pressure Gas Mains you must arrange for a Jemena Representative to attend and supervise all excavations. Charges apply for attendance of any works outside the hours of 7am to 4pm, Monday to Friday ("**Standard Business Hours**") and for any attendance during Standard Business Hours that is longer than 2 hours.

In accordance with clause 34(5) of the Gas Supply (Safety and Network Management) Regulation 2013 (NSW), you should be informed that all excavation, (including pot-holing by hand to confirm the location of pipes) should be performed in accordance with "**Work Near Underground Assets Guideline**" published in 2007 by the Work Cover Authority.

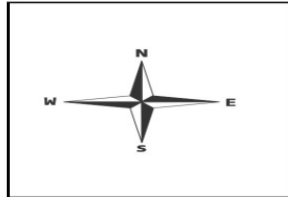
A copy of this Guideline is available at: [www.workcover.nsw.gov.au](http://www.workcover.nsw.gov.au)

MAX ALLOWABLE OPERATING PRESSURE			KEY	
	TRUNK PIPELINE	7000 kPa		VALVE
	PRIMARY MAIN	3500 kPa		SYSTEM PRESSURE REGULATOR
	SECONDARY MAIN	1050 kPa		SIPHON
	NETWORK MAIN	400 kPa		NETWORK NODE
	NETWORK MAIN	300 kPa		NETWORK VALVE NODE
	NETWORK MAIN	210 kPa		VALVE NUMBER
	NETWORK MAIN	400 kPa		6 INCH CAST IRON MAIN
	NETWORK MAIN	300 kPa		150MM STEEL MAIN
	NETWORK MAIN	210 kPa		110MM POLYETHYLENE/NYLON MAIN
	NETWORK MAIN	100 kPa		50MM NYLON INSERTED INTO 6NB CAST IRON MAIN
	NETWORK MAIN	30 kPa		DISTANCE IN METRES OF MAIN FROM BOUNDARY LINE
	NETWORK MAIN	7 kPa		YEAR LAID
	NETWORK MAIN	2 kPa		HOUSE NUMBER
	PROPOSED MAINS			PRESSURE MONITORING STATION
				MUNICIPALITY BOUNDARY
				NETWORK BOUNDARY
				STEEL MAIN PROJECT NUMBER

**Warning:** The enclosed plans show the position of Jemena Gas Networks (NSW) Ltd's underground gas mains and installations in public gazetted roads only. **Individual customers' services and services belonging to other third parties are not included** on these plans. These plans have been prepared solely for the use of Jemena Gas Networks (NSW) Ltd and Jemena Asset Management Pty Ltd (together "**Jemena**") and any reliance placed on these plans by you is entirely at your own risk. The plans may show the position of underground mains and installations relative to fences, buildings etc., as they existed at the time the mains etc were installed. The plans may not have been updated to take account of any subsequent change in the location or style of those features since the time at which the plans were initially prepared. Jemena 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, omission, lack of detail, transmission failure or corruption in the information provided. Jemena does not accept any responsibility for any loss that you or anyone else may suffer in connection with the provision of these plans, however that loss may arise (including whether or not arising from the negligence of Jemena, its employees, agents, officers or contractors). The recipient of these plans must use their own care and diligence in carrying out their works and must carry out further surveys to locate services at their work site. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to Jemena's underground mains and equipment. Jemena advises that you may be required to carry out potholing by hand if required by a Jemena Representative to confirm the location of Jemena's main and installations. This must also be performed by you under the supervision of a Jemena Representative and be carried out in accordance with the Working Near Underground Assets Guideline published in 2007 by Work Cover Authority

**In case of Emergency Phone 131 909 (24 hours)**

Admin  
1300 880 906



Type: Telco  
Technology: Copper/Fibre

#### Assets

IN-SERVICE:  
Cable/ Duct/ Trench  
DESIGNED/CONSTRUCTED:  
Cable/ Duct/ Trench

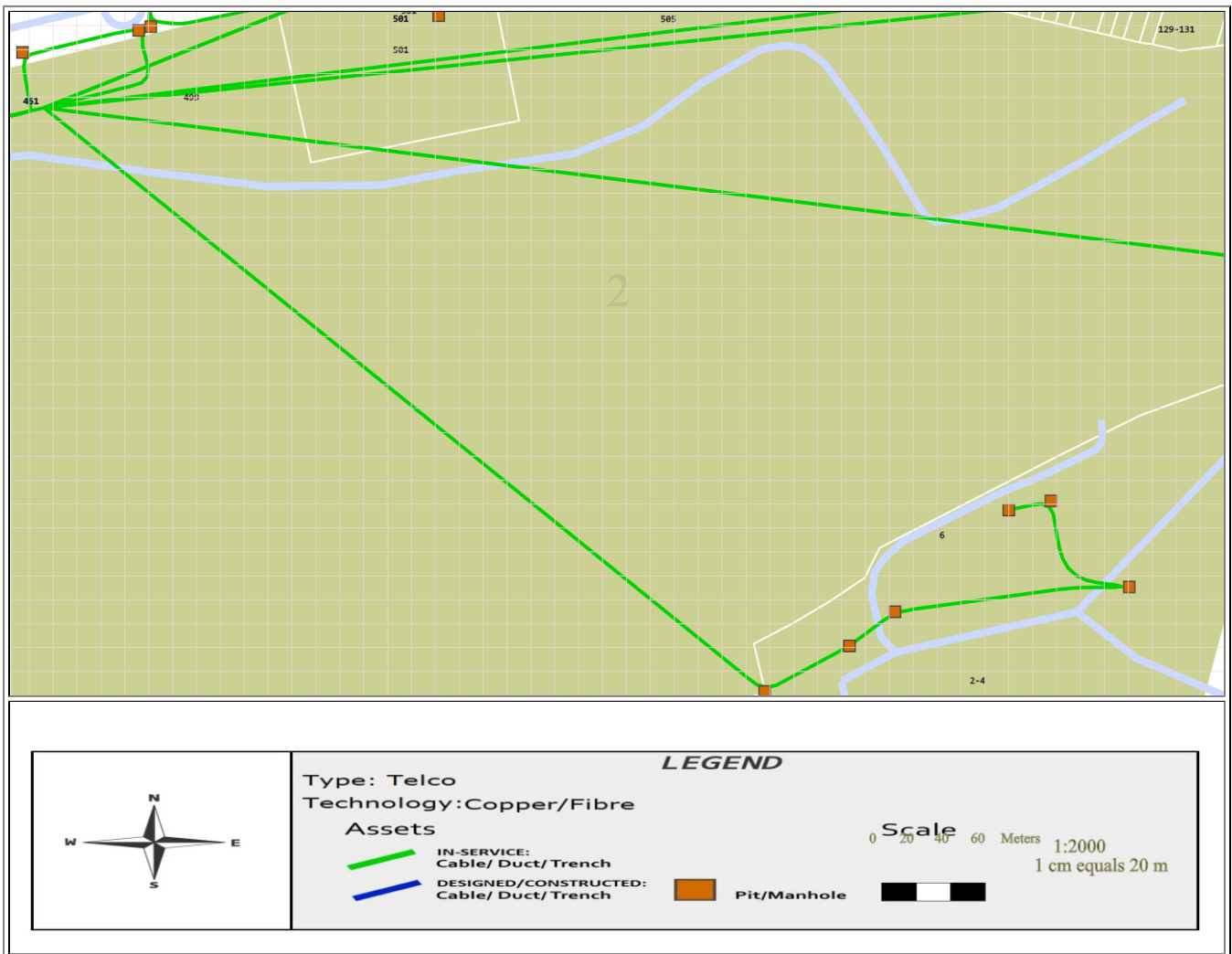
Pit/Manhole



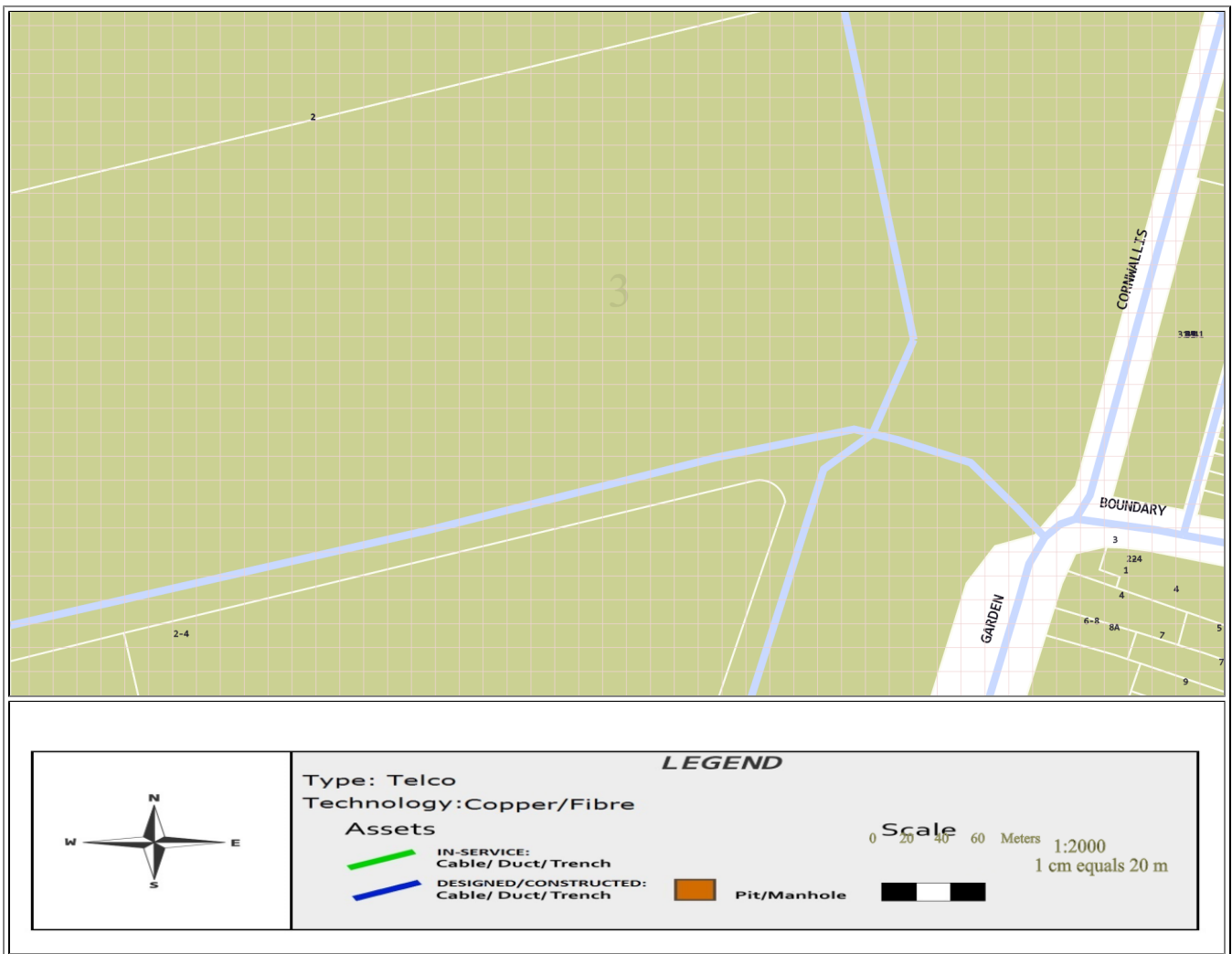
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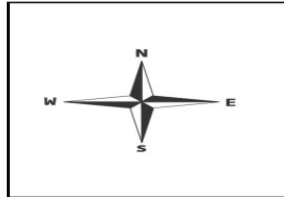
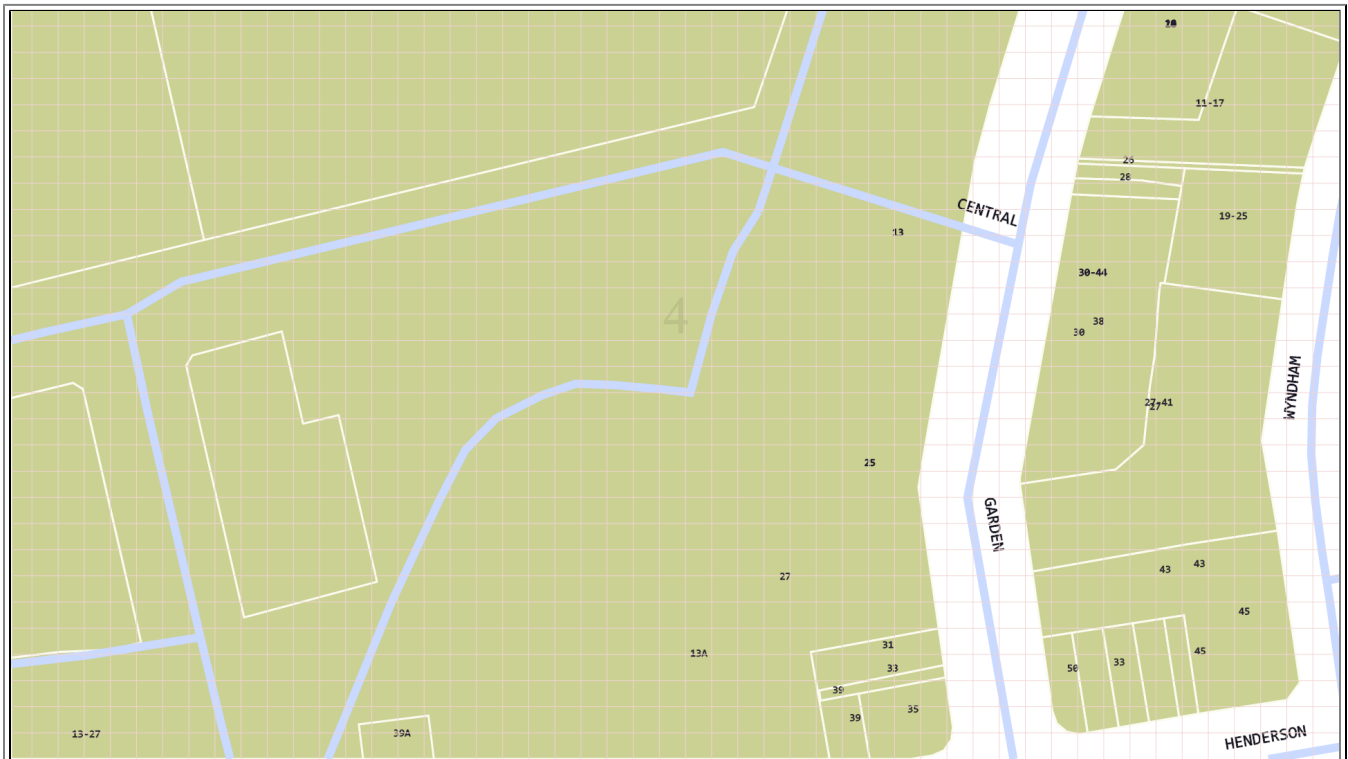
Scale  
0 20 40 60 Meters 1:2000  
1 cm equals 20 m











Type: Telco  
Technology: Copper/Fibre

#### Assets

IN-SERVICE:  
Cable/ Duct/ Trench  
DESIGNED/CONSTRUCTED:  
Cable/ Duct/ Trench

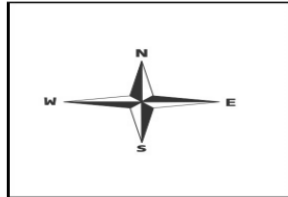
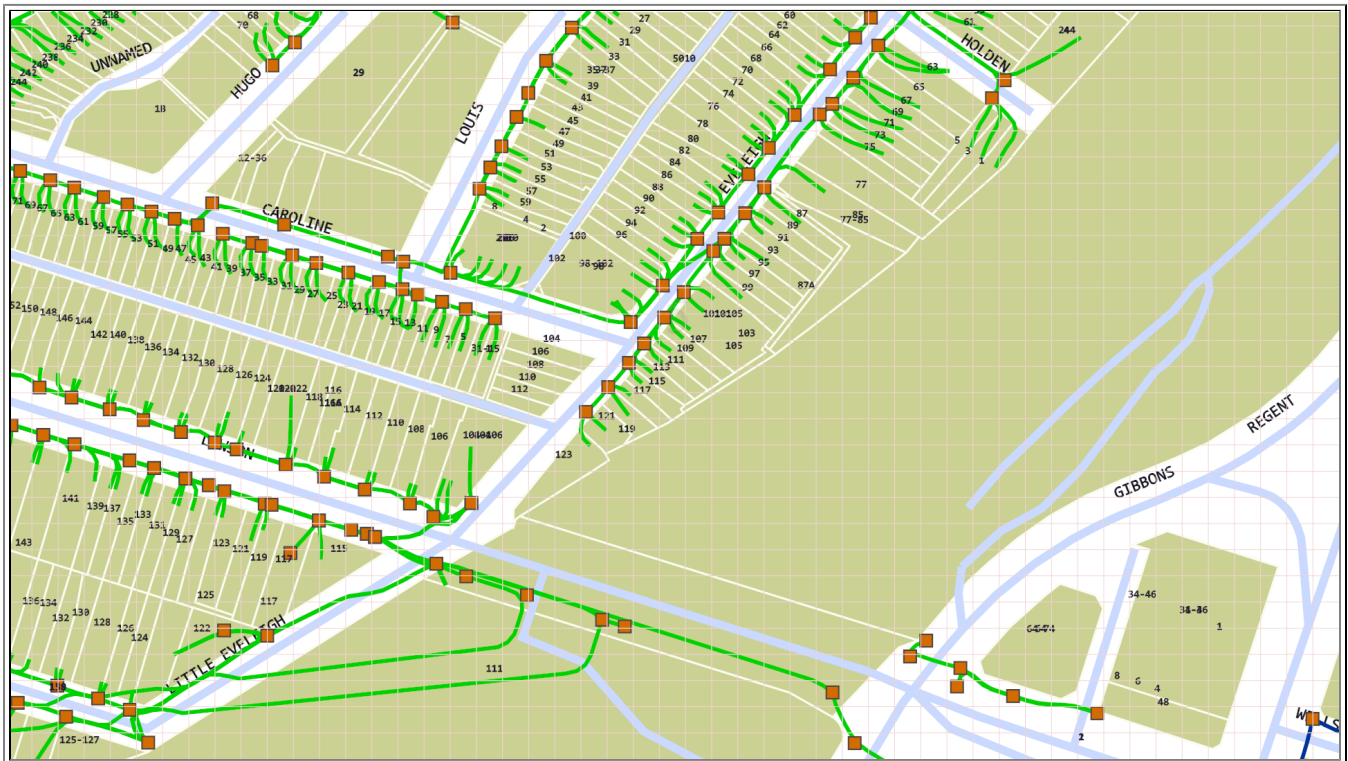
Pit/Manhole



#### LEGEND

Scale  
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1 cm equals 20 m





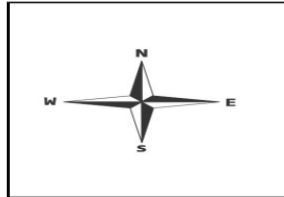
Type: Telco  
Technology: Copper/Fibre  
Assets

IN-SERVICE:  
Cable/ Duct/ Trench  
DESIGNED/CONSTRUCTED:  
Cable/ Duct/ Trench

Pit/Manhole

#### LEGEND

Scale  
0 20 40 60 Meters 1:2000  
1 cm equals 20 m



Type: Telco  
Technology: Copper/Fibre

#### Assets

IN-SERVICE:  
Cable/ Duct/ Trench

DESIGNED/CONSTRUCTED:  
Cable/ Duct/ Trench

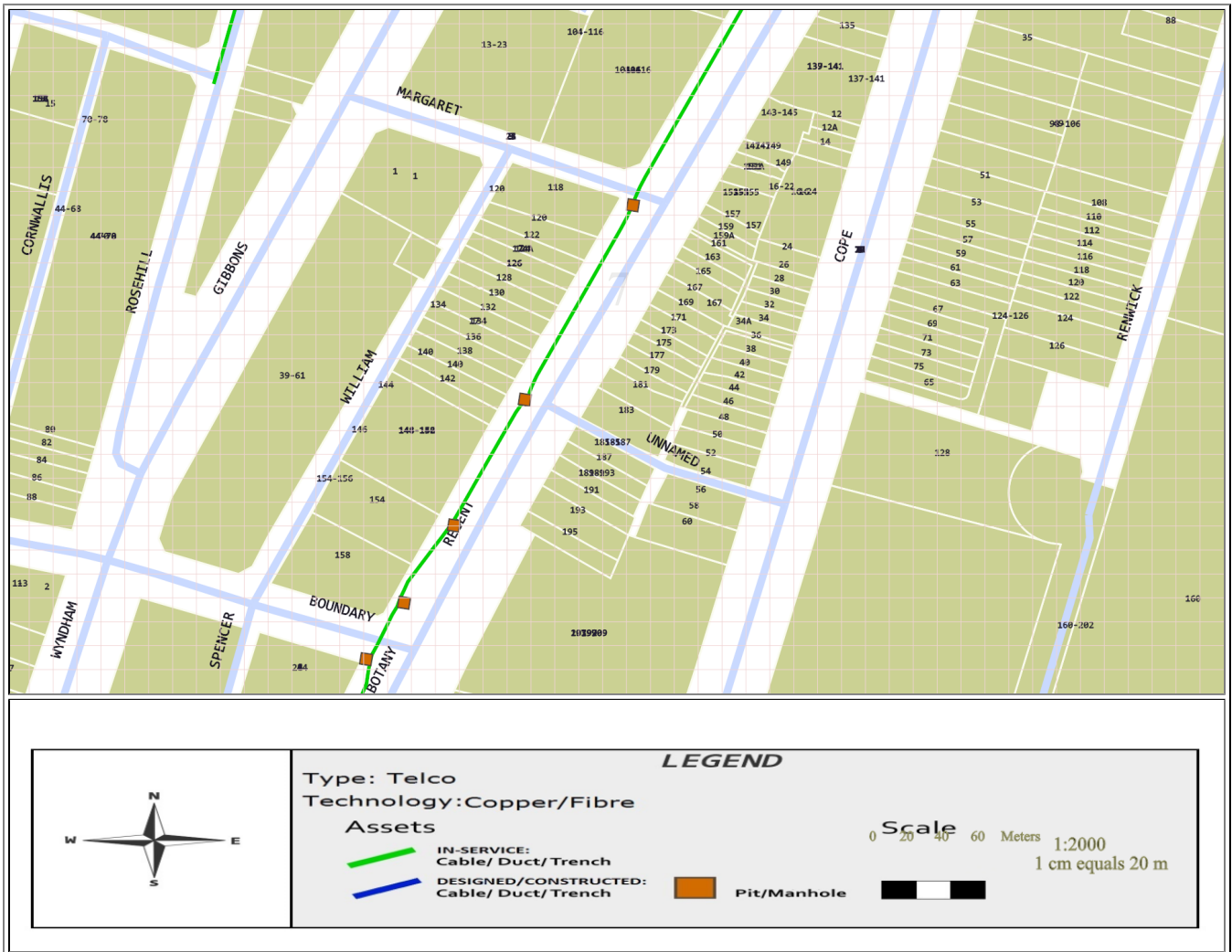
Pit/Manhole



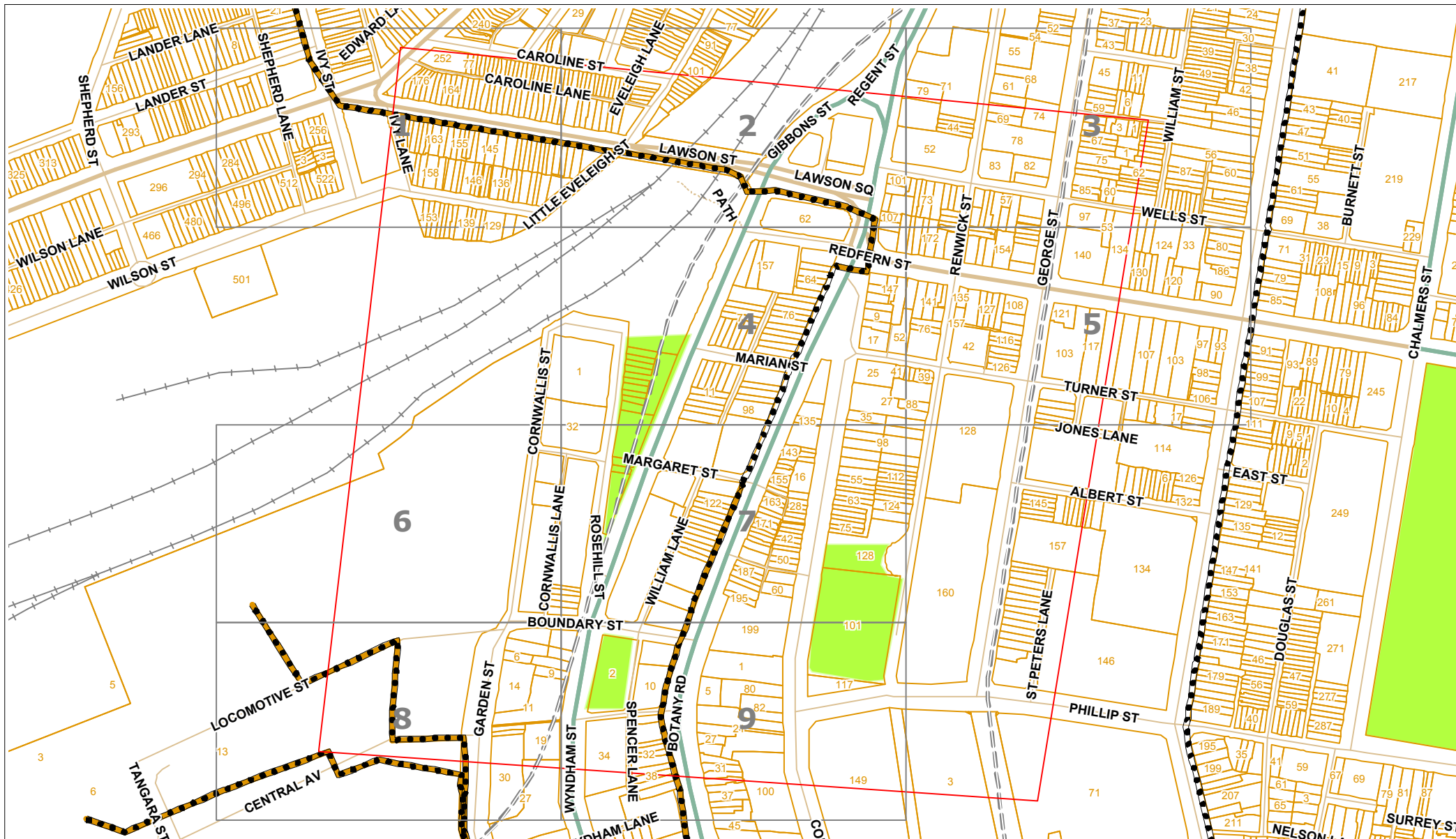
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1 cm equals 20 m















Sequence Number: 74320643

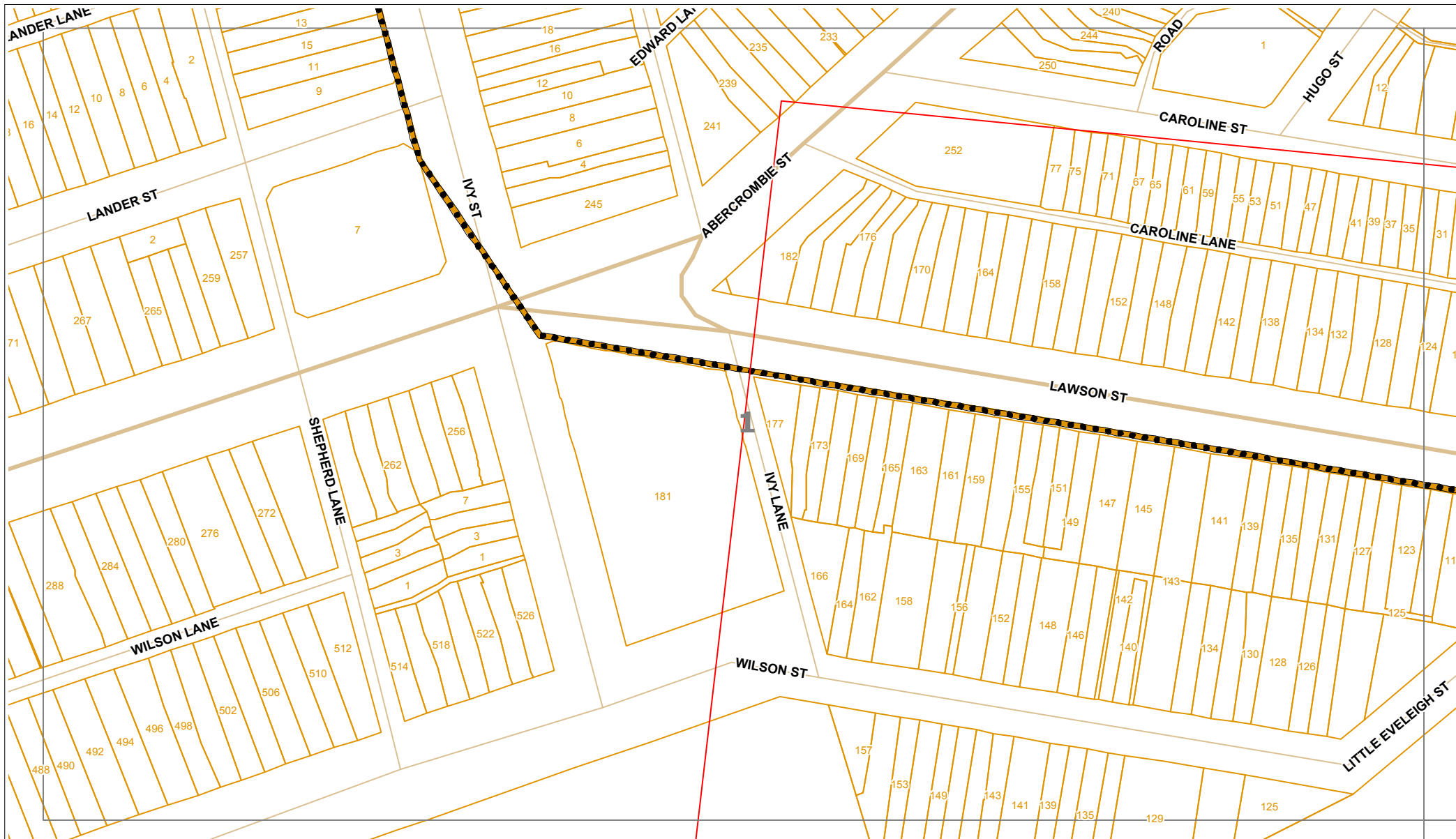
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## LEGEND

Digsite	Assets
 Point	 Cable
 Line	 3rd Party Duct
 Area	 Marker Post









Sequence Number: 74320643

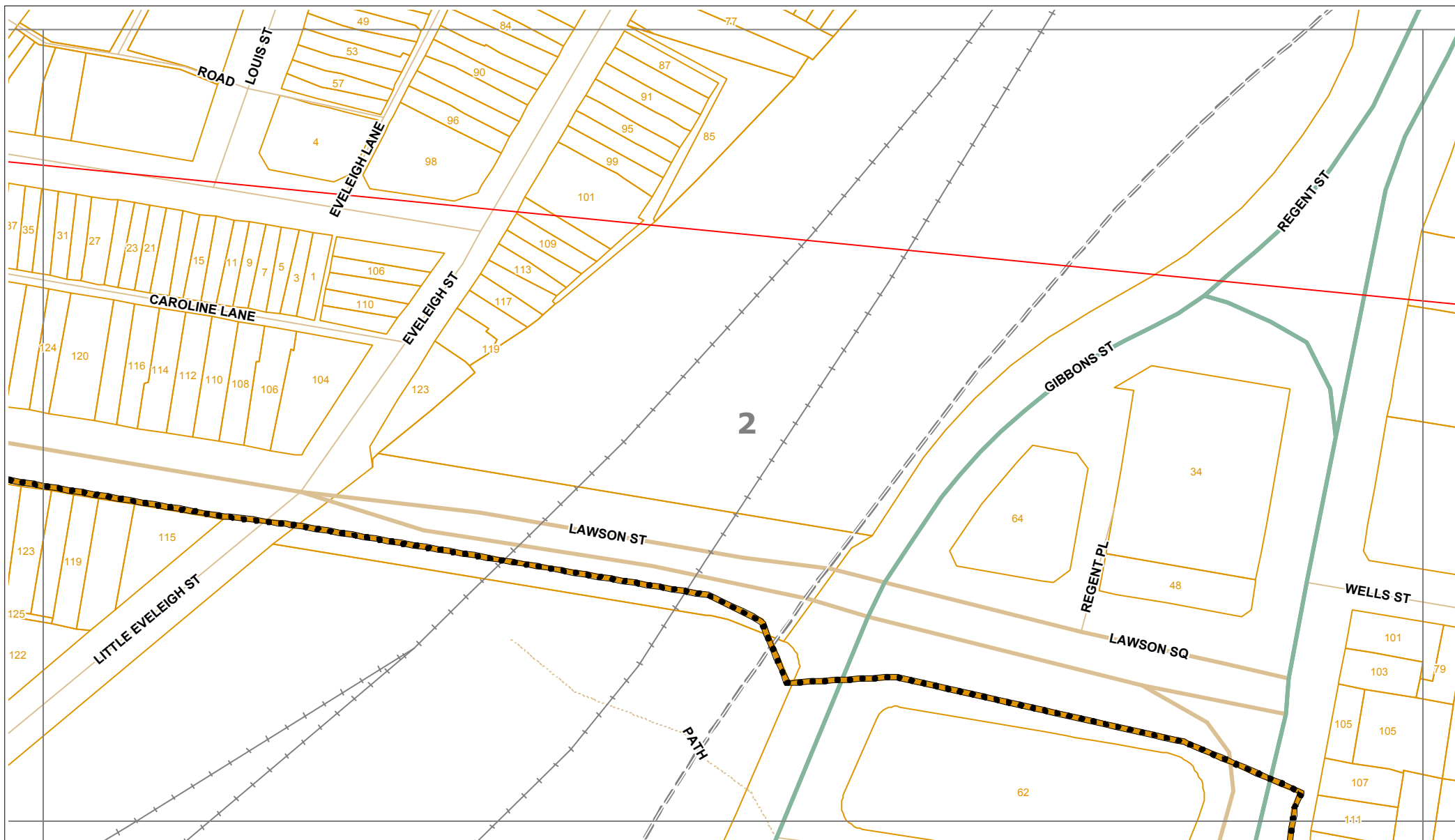
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	Area		Marker Post



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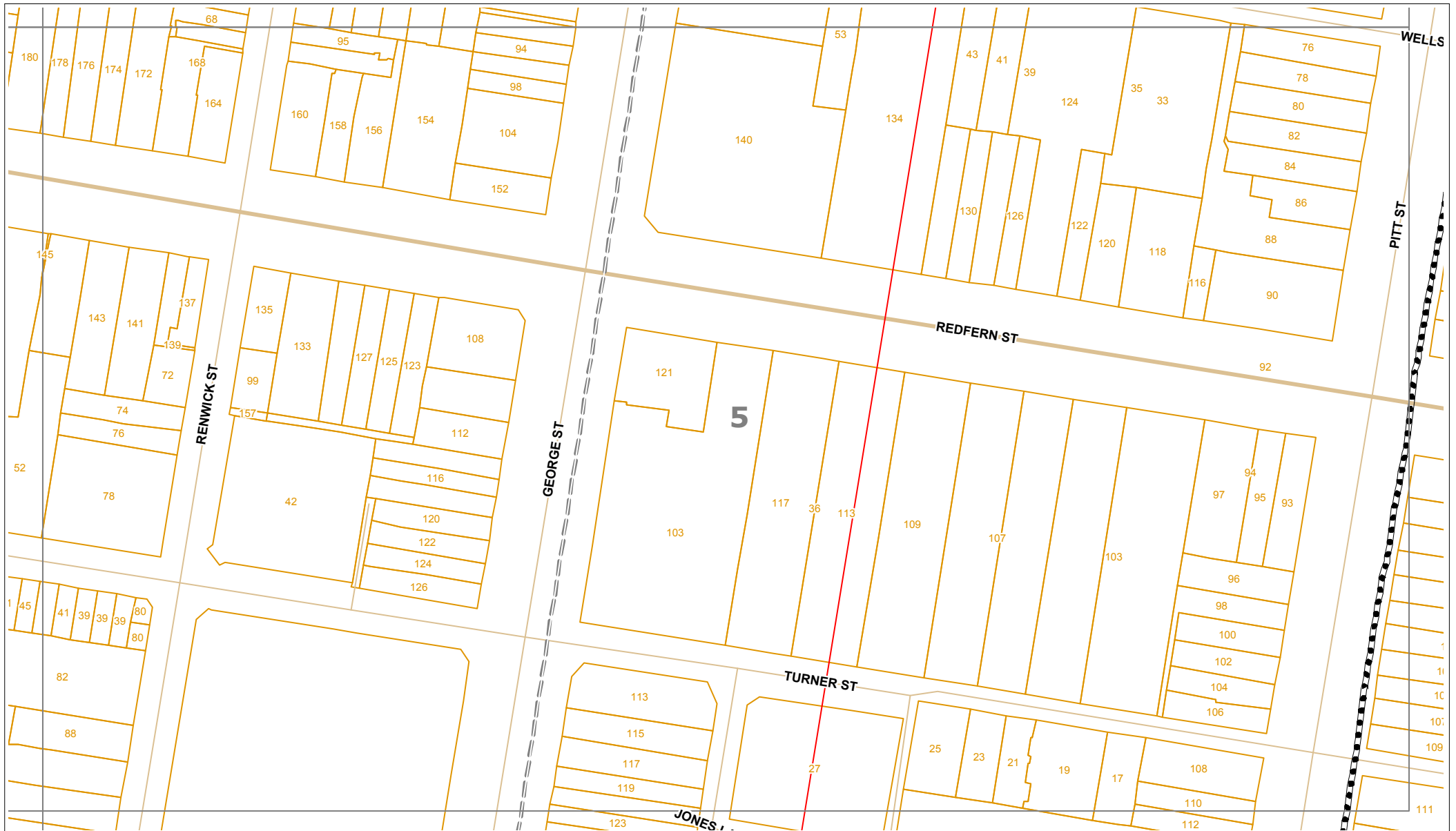
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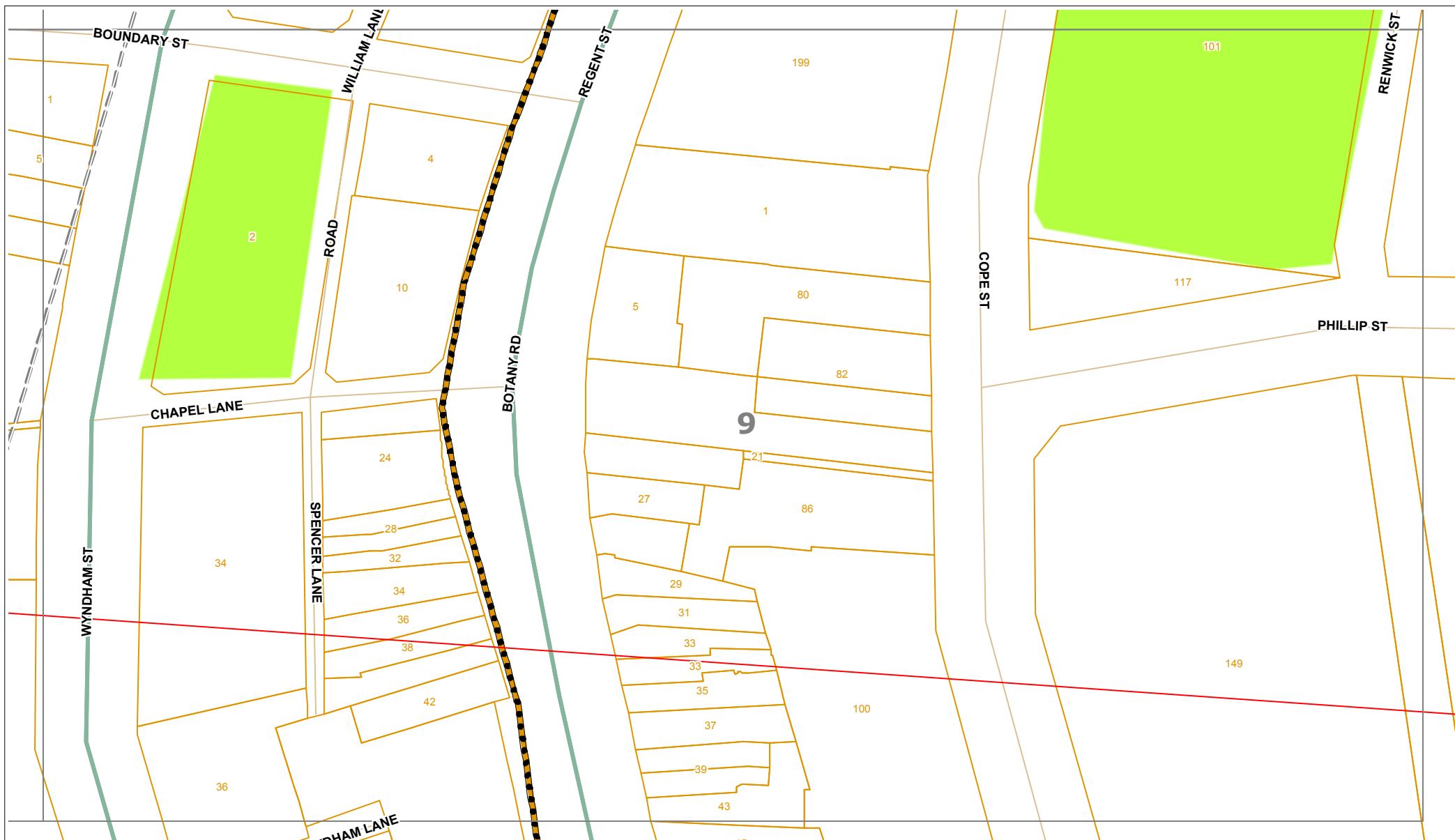


## LEGEND

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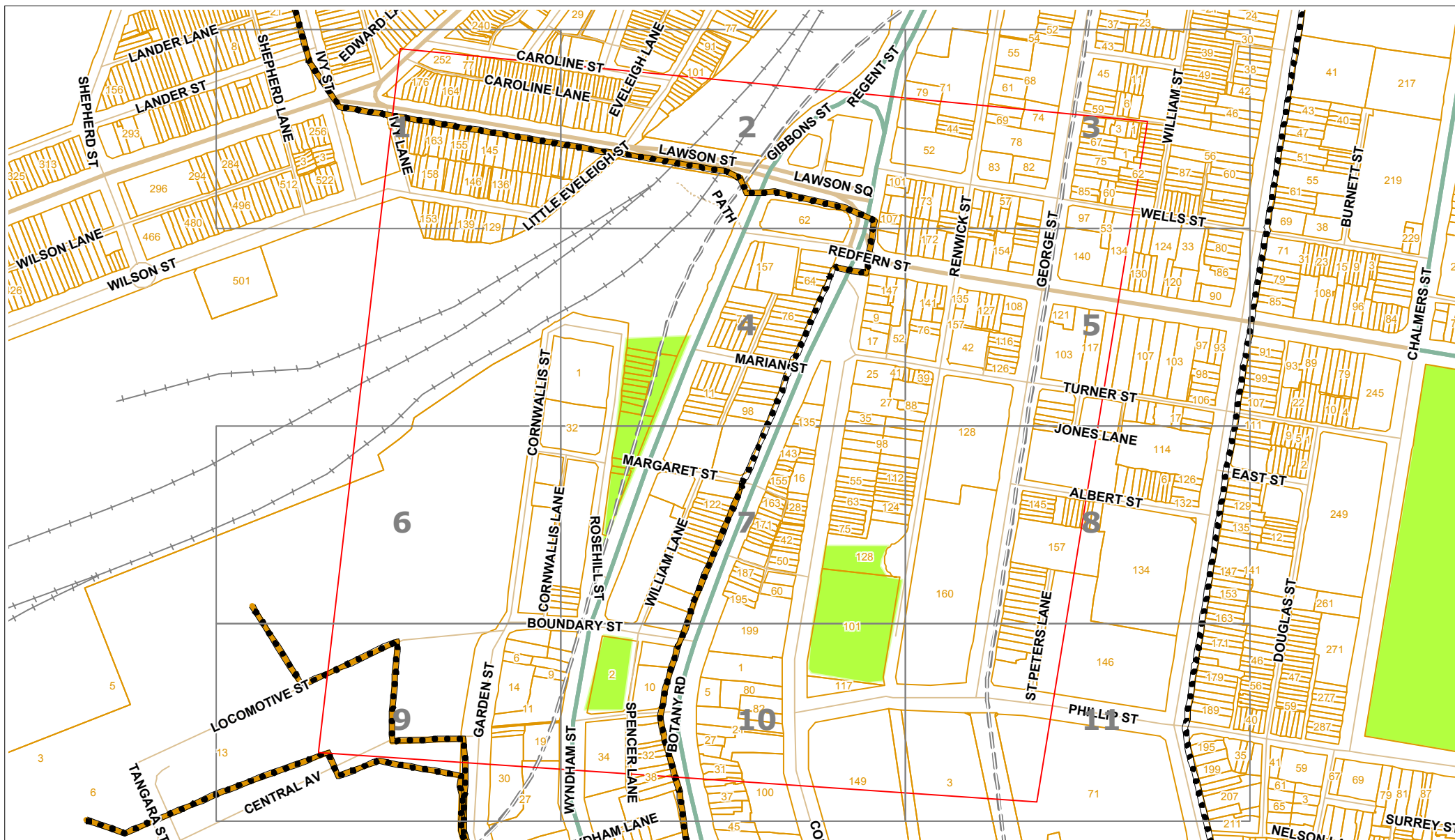
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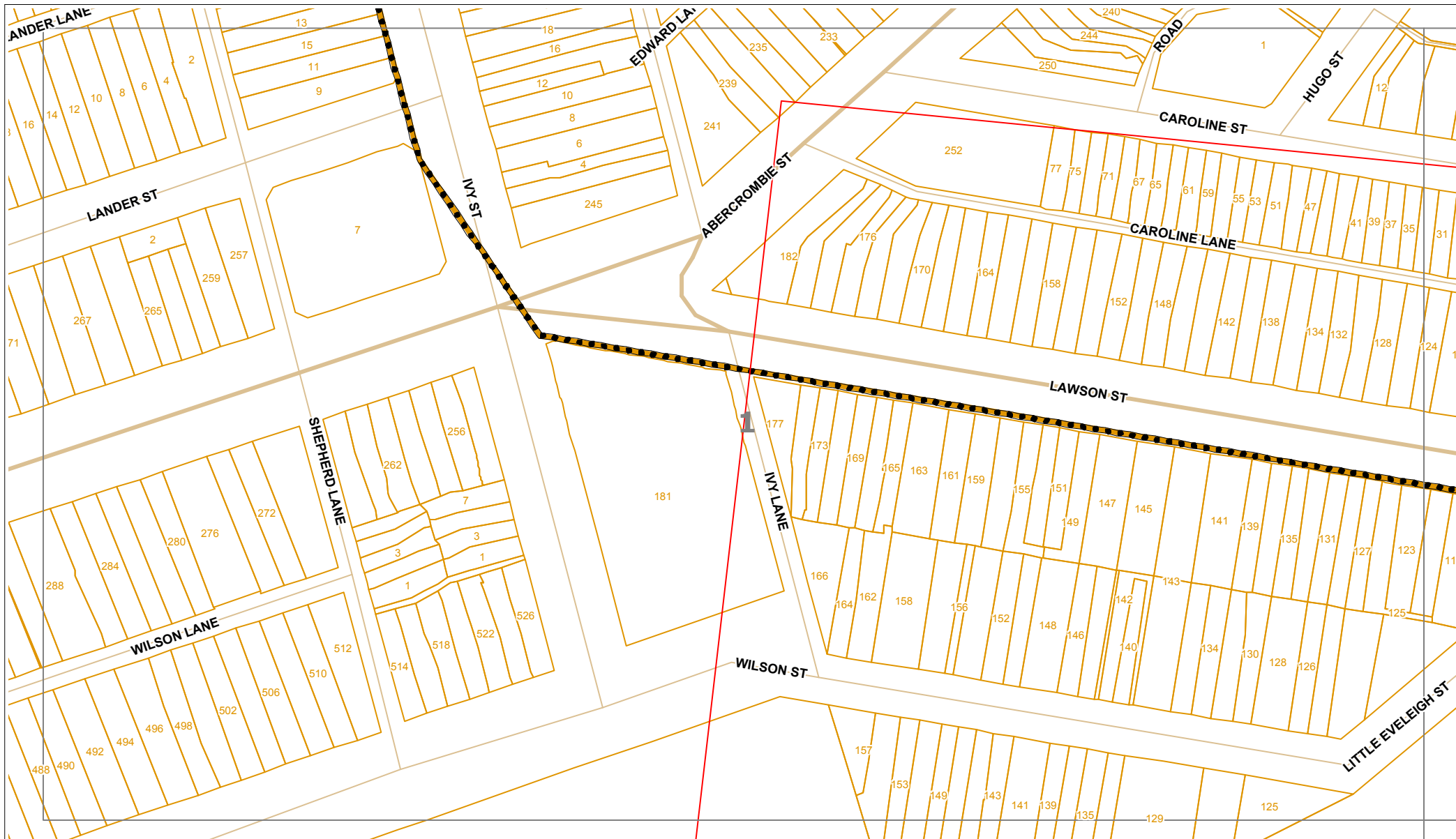
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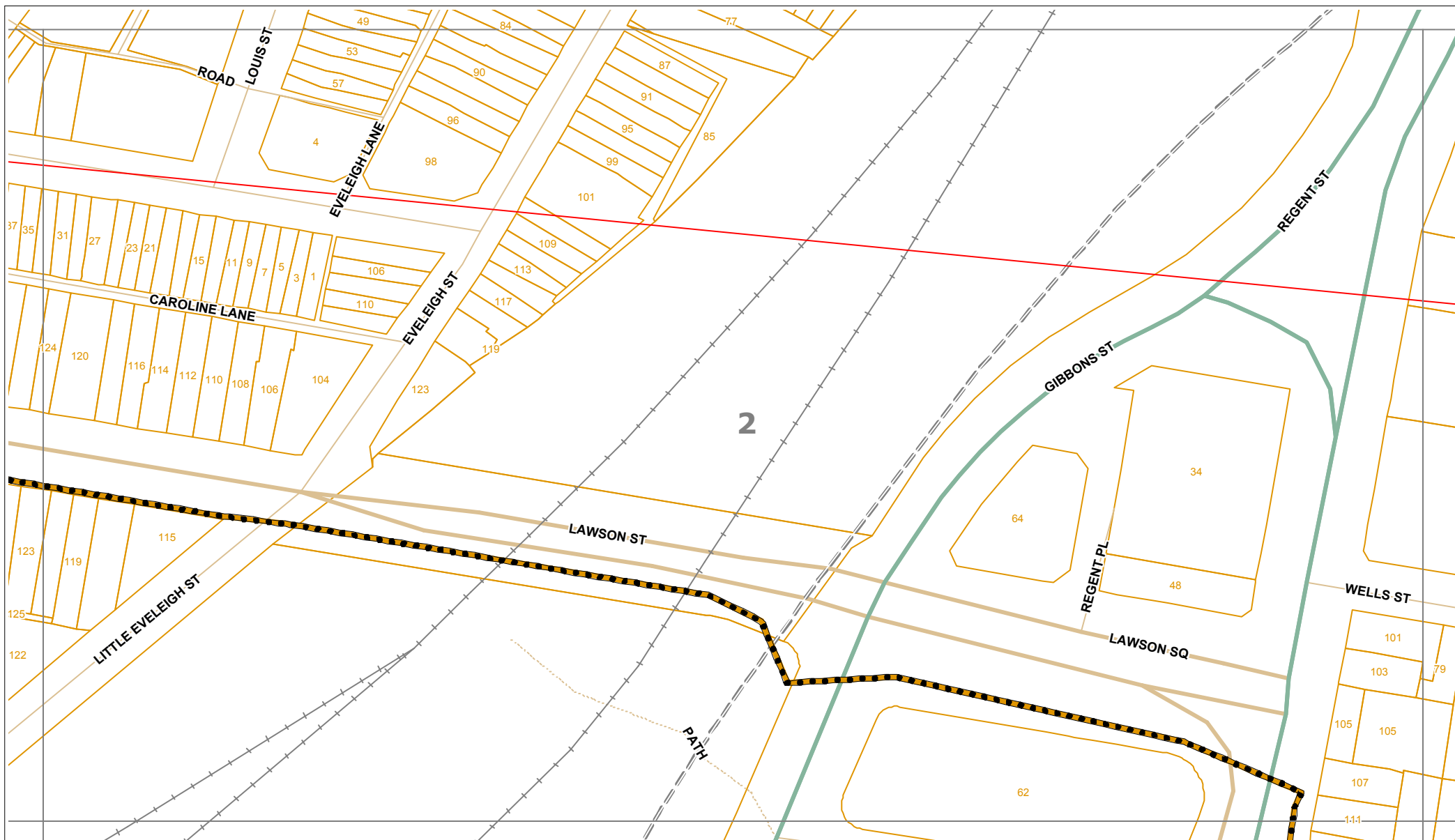
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Point	Cable
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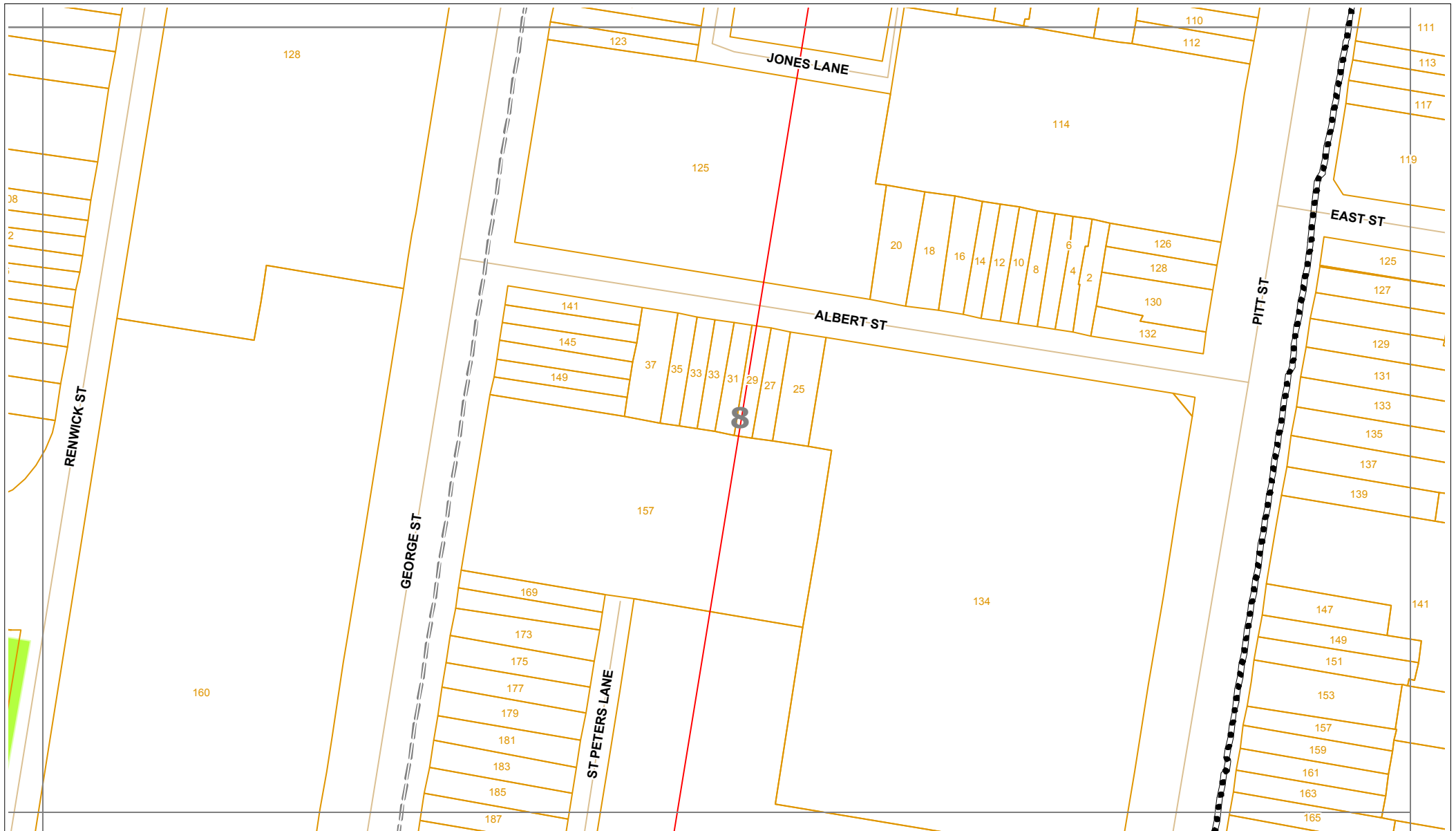
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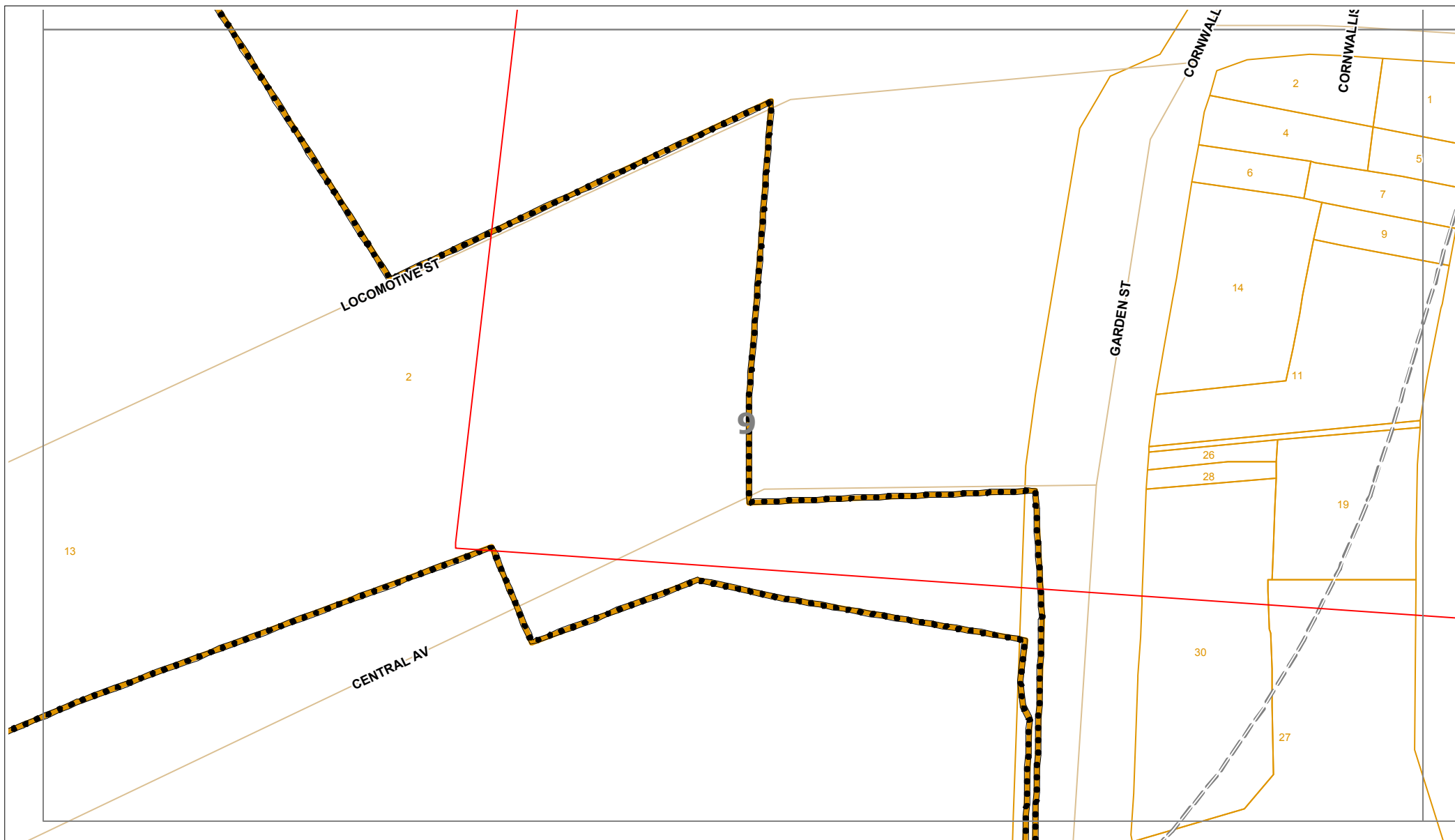
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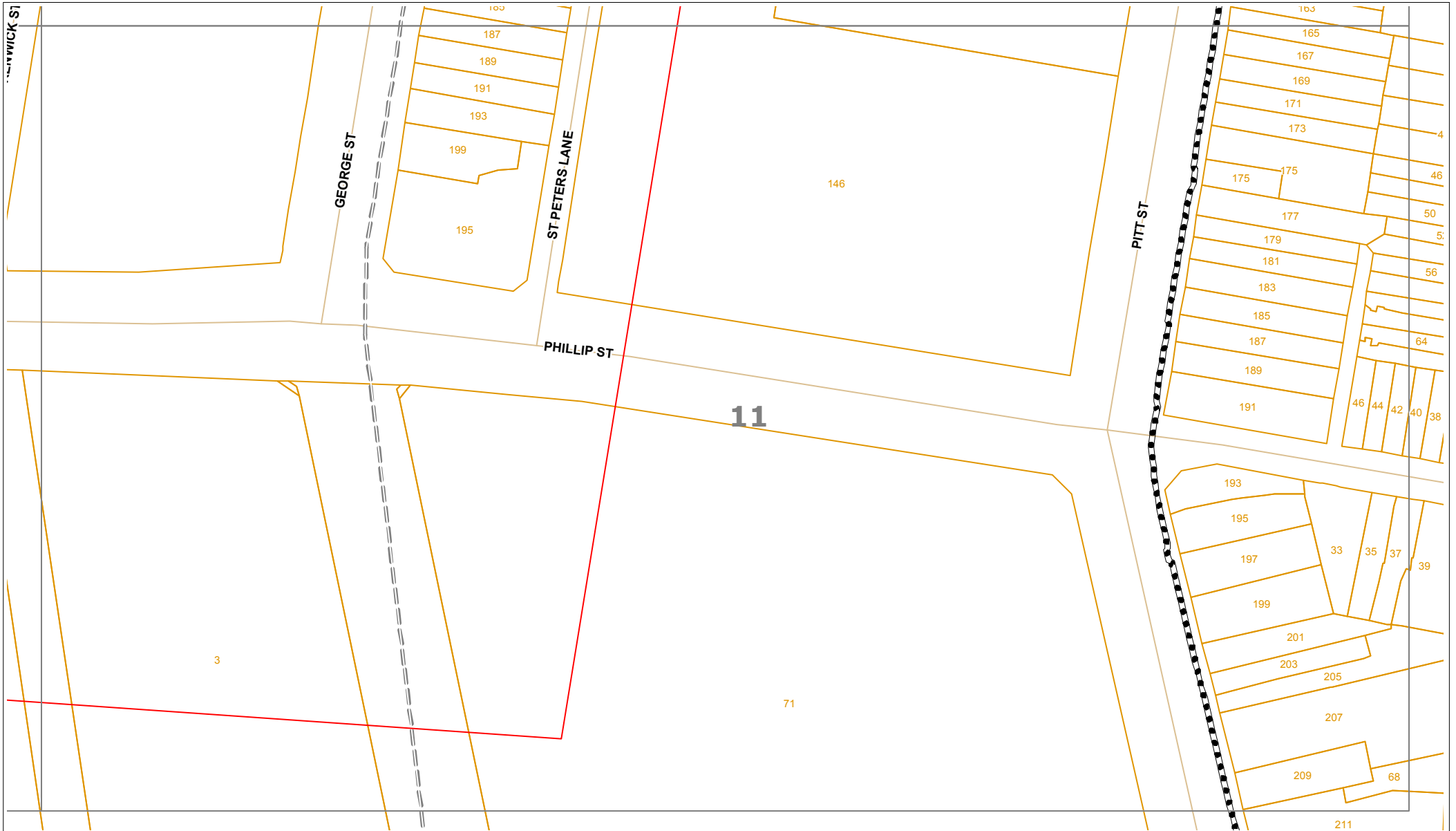


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## LEGEND

Digsite		Assets	
	Point		Cable
	Line		3rd Party Duct
	Area		Marker Post

## Plant Location Details



09/08/2018

Mr David Huang  
Arcadis  
141 Walker Street  
North Sydney, NSW 2060  
Phone: 0289079261  
Fax: Not Supplied

Nextgen Networks Pty Ltd  
Level 6, 333 Collins Street  
Melbourne VIC 3000  
T 1800 032 532  
E [DBYD@nextgengroup.com.au](mailto:DBYD@nextgengroup.com.au)

Dear Mr David Huang,

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

### **Assets Affected: Nextgen Assets**

**Sequence No:** 74320643  
**Location:** 13-23 Gibbons Street Redfern, NSW 2016

#### **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:
    - a) Parallel to major plant: 10 metres (for optic fibre cable)
    - b) 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.

<b>Jackhammers/Pneumatic Breakers</b>	<i>Not within 1.0m of <b>actual locations</b></i>
<b>Vibrating Plate or Wackers Packer Compactors</b>	<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>
<b>Boring Equipment (in-line, horizontal and vertical)</b>	<i>Not within 2.0m of <b>actual location</b> Constructor to check depth via vacuum excavation (pot-hole)</i>
<b>Heavy Vehicle Traffic (over 3 tonnes)</b>	<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>
<b>Mechanical Excavators, Boring and Tree Removal</b>	<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 plan 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](http://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:

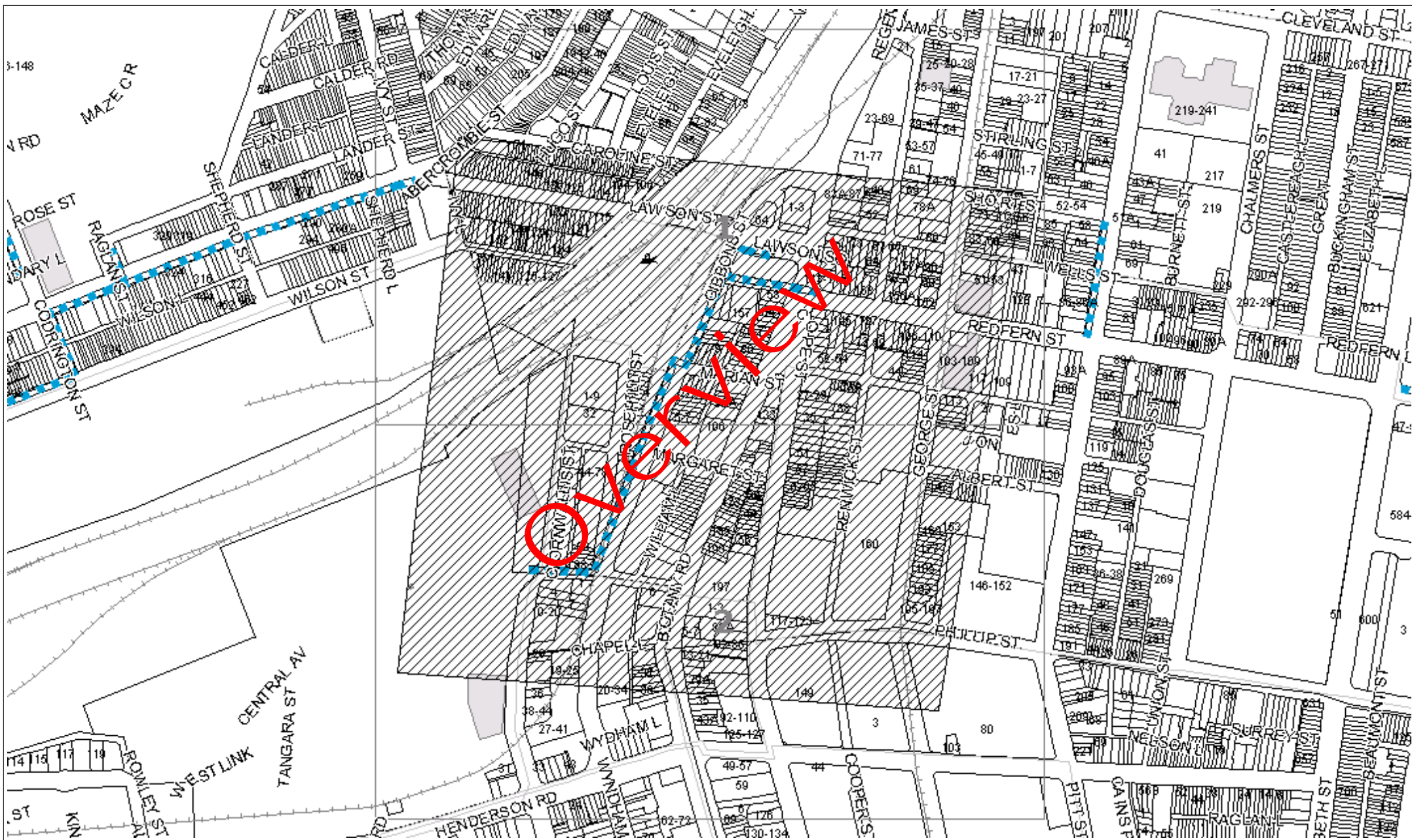
- Review Nextgen Networks plans to assess the approximate location of Nextgen Networks plant
- Advise owners of the approximate location of Nextgen Networks plant according to the plans
- Advise the owners of the best method for locating Nextgen Networks plant
- Advise owners of the hazard of unqualified 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.

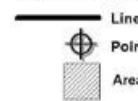
## **GENERAL DISCLAIMER**

While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Nexgen 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.





**Job Location**

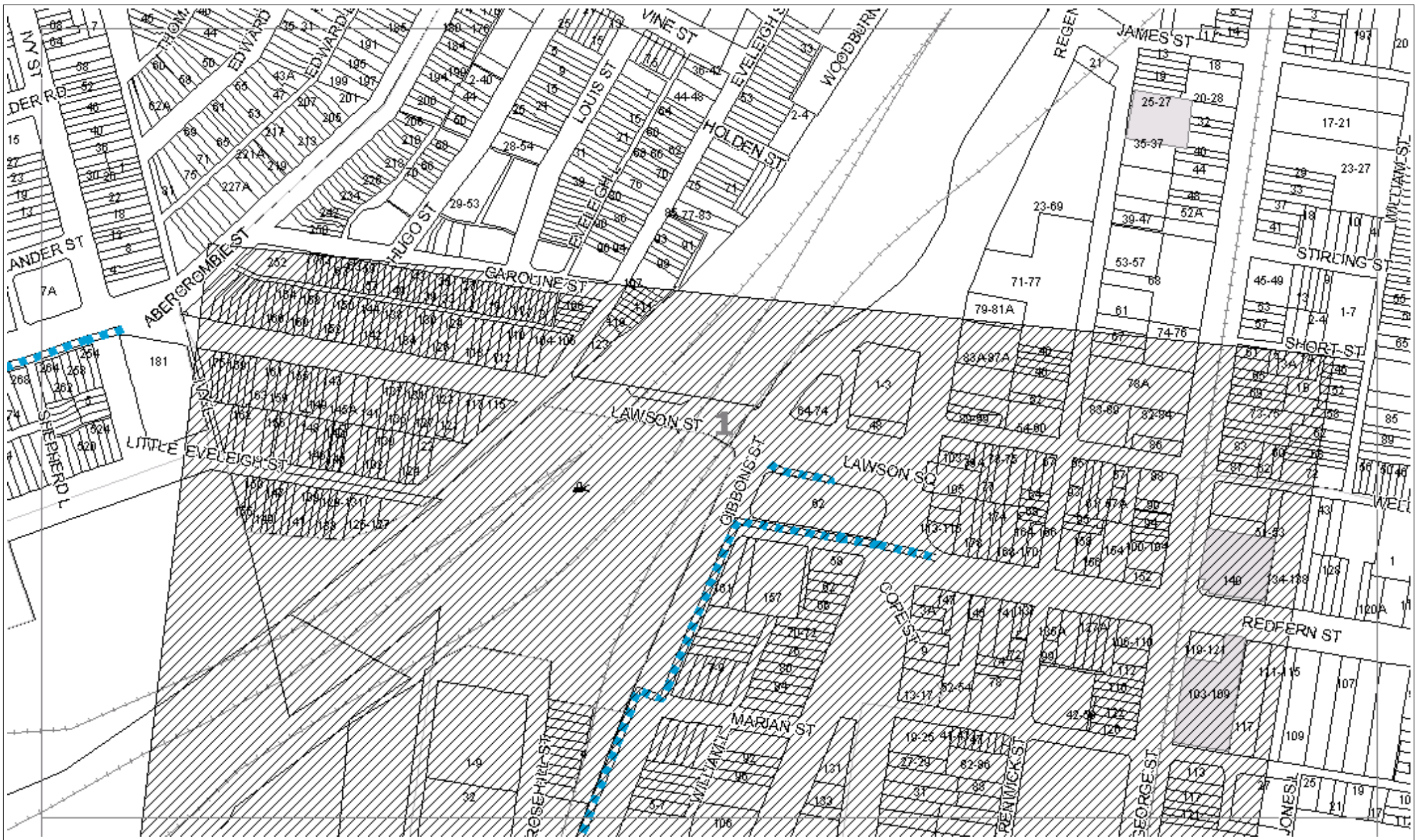


**Underground Asset**



This document is confidential and may also be privileged, and neither confidentiality nor privilege is waived lost or destroyed by virtue of it being transmitted to an incorrect addressee. Unauthorised use of the contents is therefore strictly prohibited. Any information contained in this document that has been extracted from our records is believed to be accurate, but no responsibility is assumed for any error or omission.





**Uecomm**

**Cable Uecomm Underground**

Scale: #INSERT MAP SCALE#

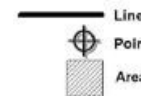
Printed On: 10/08/2018

Sequence Number: 74320649

Location: 13-23 Gibbons Street



**Job Location**



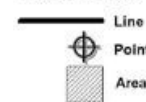
**Underground Asset**



This document is confidential and may also be privileged, and neither confidentiality nor privilege is waived lost or destroyed by virtue of it being transmitted to an incorrect addressee. Unauthorised use of the contents is therefore strictly prohibited. Any information contained in this document that has been extracted from our records is believed to be accurate, but no responsibility is assumed for any error or omission.



Job Location



Underground Asset



This document is confidential and may also be privileged, and neither confidentiality nor privilege is waived lost or destroyed by virtue of it being transmitted to an incorrect addressee. Unauthorised use of the contents is therefore strictly prohibited. Any information contained in this document that has been extracted from our records is believed to be accurate, but no responsibility is assumed for any error or omission.



Date: 10/08/2018  
To: Mr David Huang  
Company:  
Address: 141 Walker Street  
North Sydney, NSW 2060

#### ENQUIRY DETAILS

Location: 13-23 Gibbons Street, Redfern, NSW 2016  
Sequence No.: 74320649  
DBYD Reference: 14724930

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:

- a) Obtain location drawings (through the Dial Before You Dig 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.

## **DAMAGE TO ANY OPTUS NETWORK 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:

- a) 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.
- b) 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.
- c) 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)	<p>Not to be driven across Optus conduits with less than 600mm of cover.</p> <p>Not to be driven across Optus direct buried cable with less than 1.2 meters of cover.</p> <p>Once off crossings permitted, multiple crossing (e.g. road construction or logging) will require Optus approval.</p> <p>Accredited Optus Asset Locator to physically expose the Optus asset to verify actual depth.</p>
Mechanical Excavators, Farm Ploughing, Vertical Hole installation for water bore or fencing etc.	<p>Not within 1 meter.</p> <p>Accredited Optus Asset Locator to physically expose the Optus asset to verify actual location.</p>

### 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").

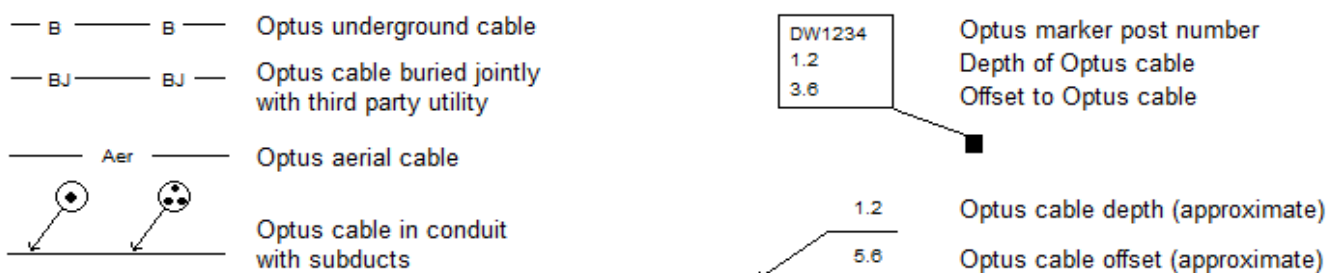
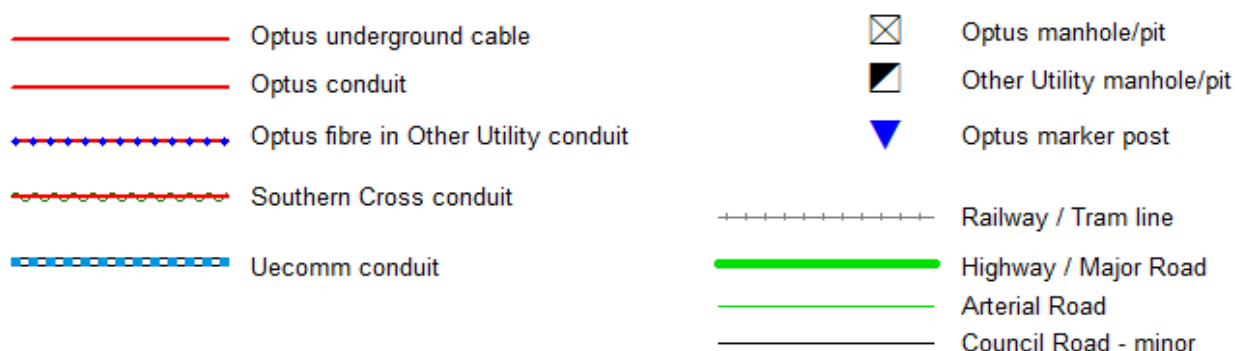
### FURTHER ASSISTANCE

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](mailto: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



To: Mr David Huang  
141 Walker Street  
North Sydney, NSW, 2060



Uecomm Pty Limited  
ABN 56 079 083 195

Building 8, 658 Church St,  
Richmond, VIC 3121  
Ph: (03) 9221 4100  
Fax: (03) 9221 4193  
Ah: 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.**

**"Dial Before You Dig" Sequence No 74320649**  
**Customer ID 1687345**

**Issue Date: 10/08/2018**  
**Issue By:**

Location: **13-23 Gibbons Street, Redfern, NSW 2016**  
Map Ref: **255Q3, 255Q4, 255Q5, 255Q6, 256A3, 256A4, 256A5, 256A6, 256B3, 256B4, 256B5, 256B6**  
Uecomm Asset Location No. **74320649**  
Dial Before You Dig Job No. **14724930**

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 extends 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 inline, 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 likelihood 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 UECOMM'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 Dial Before You Dig Service 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. Unauthorised use is prohibited. If you have it in error, please notify us and shred this document. Thank you.*

LEGEND

-  - ELECTRICITY POLE
-  - FIBRE OPTIC CABLE
-  - CABLE CONDUIT
-  - UE P5 PIT
-  - UE P6 PIT
- B/L - BUILDING LINE
- BOK - BACK OF KERB
-  - FENCE LINE
-  - TELSTRA MANHOLE
-  - TELSTRA PIT

ADJOINS OFN5/SYD/2321-1

EXISTING PIPELINE

CONDUIT END  
BOK 1.00  
0.00

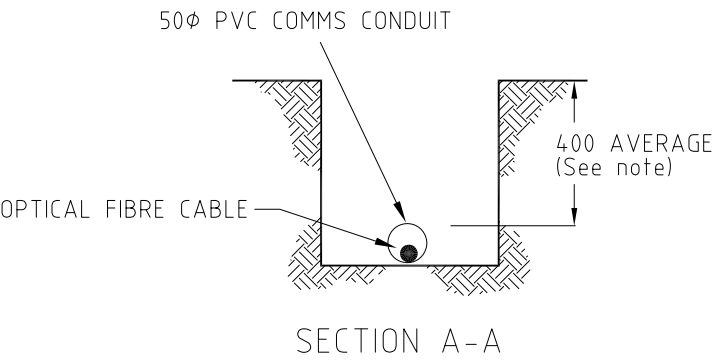
REDFERN ST

RECENT ST

RECENT ST

A  
A

MANHOLE  
BOK 1.20  
0.00



Note:  
Conduit depths quoted are approximate only and  
may change due to unforeseen circumstances.  
Excavate by hand until conduit depth is determined.

DRAWING NOT TO SCALE

REVISIONS




SYDNEY  
Suite 902, 20 Berry St  
North Sydney - 2060

DRAWN *G.R. Quin*  
15.02.01






APPROVED  
*R. Browne*  
15.02.01

UBD REF.  
15-C7

DRG No. OFN5/SYD/2146-1

U/G OPTICAL FIBRE CABLE RUN  
TELSTRA MANHOLE TO EXISTING PIPE  
REDFERN & RECENT STS  
REDFERN NSW 2016

○ - ELECTRICITY POLE  
 — - FIBRE OPTIC CABLE  
 --- - CABLE CONDUIT (TRENCHING)  
 ---- - CABLE CONDUIT (BORE TUNNELLING)

- |   |             |
|---|-------------|
|  | - UE P2 PIT |
|  | - UE P5 PIT |
|  | - UE P6 PIT |
|  | - UE P8 PIT |
|  | - UE P9 PIT |

BOK - BACK OF KERB

TP - TURNING POINT OF CONDUIT

- TELSTRA MANHOLE

— OPTICAL FIBRE JOINT

Cable Head Pole


0.6m - CABLE DEPTH

CONTINUED ON  
DRG. NO. OFNS/SYD/2295

1. Conduit depths quoted are approximate only and may change due to unforeseen circumstances.
2. In all instances it is recommended that the position of conduits & cables should be proved on site by hand, prior to commencement of works.
3. White marker tape shall be installed at least 150mm above the uppermost surface of all conduits or cables.

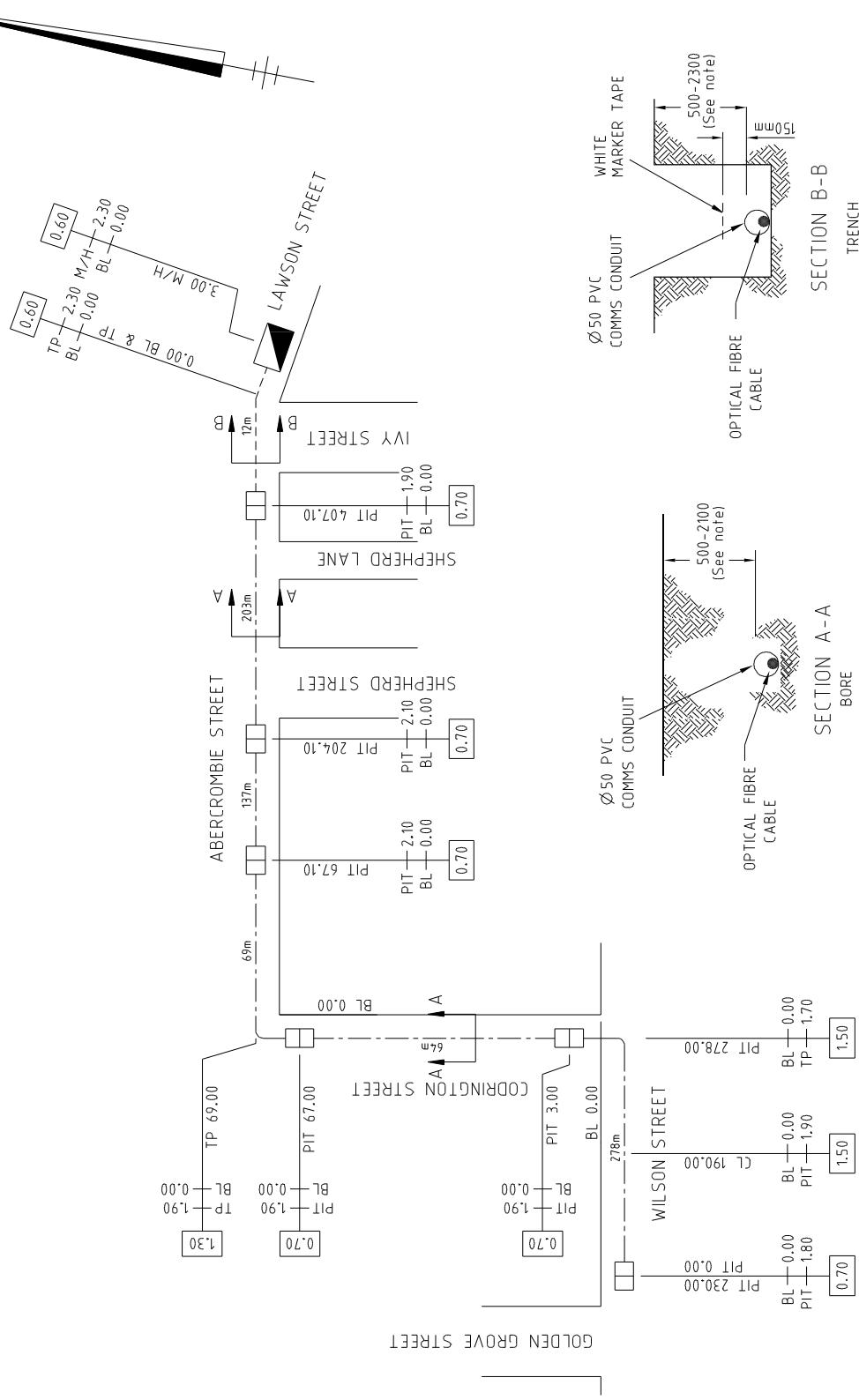
REVISION						APP'D. APPROVED FOR CONSTRUCTION BY SECTION						
12.08.03	-					ISSUED FOR APPROVAL - UE.COMM (PXH)	A.L.S.					
DATE	REV.					REVISION DESCRIPTION	CHECKED	APP'D.				

CONTACT OFFICER	Adrian Szentessy PH: (03) 9544 3877
PROJECT NUMBER	
PLAN No.	UEC-ADSYS-106
MELWAY / UBD REF UBD 255 N4, P4, Q3&4	

 <p>Uecomm MAKING THE CONNECTION</p>	<p>DRAWN BY: SØE (PXM) 12/08/03</p>	<p>DESIGN CHECKED</p>	<p>APPROVED</p>
	<p>UecomM MEL / SYD / QLD</p>		

DRG No.	OFN5/SYD/2295-2	-
U/G OPTICAL FIBRE CABLE RUN WILSON STREET & ABERCROMBIE STREET WILSON STREET, COORINGTON STREET, ABERCROMBIE STREET & LAWSON STREET NEWTOWN 2042		

DRAWING NOT TO SCALE



SECTION B-B

SECTION A-A



# LEGEND

- - ELECTRICITY POLE
- - FIBRE OPTIC CABLE
- - - - CABLE CONDUIT (TRENCHING)
- ..... - CABLE CONDUIT (BORE TUNNELLING)
- - UE P2 PIT
- - UE P5 PIT
- ▤ - UE P6 PIT
- ▥ - UE P8 PIT
- ▧ - UE P9 PIT
- BL - BUILDING LINE
- BOK - BACK OF KERB
- CL - CENTRELINE OF CONDUIT
- TP - TURNING POINT OF CONDUIT
- \ — - FENCE LINE, FL
- ▴ - TELSTRA MANHOLE
- ⊙ - TELSTRA PIT
- | — - OPTICAL FIBRE JOINT
- ⊙ - JOINT LOOP (m) - POLE / UNDERGROUND
- - CABLE HEAD POLE
- 0.6m - CABLE DEPTH
- ⊗ - UNIDENTIFIED BURIED PIT.

DRAWING NOT TO SCALE

Note:

1. All Construction P50/PE63mm conduit.
2. UECOMM P50 pipe passes thru buried pit Corner Redfern and Regent Streets.
3. All alignments from Kerb Line.
4. CH428.0 to CH446.0 0.3 cover, concrete encased.

## BORE LOG LOCATIONS:

CH71 to 96 - BL4737  
 CH96 to 166 - BL4735  
 CH173 to 191 - BL4736  
 CH191 to 164 - BL  
 CH282 to 360 - BL4815  
 CH393 to 428 - BL4881  
 CH446 to 522 - BL4882

## NOTE

ALL INFORMATION ON THIS PLAN WAS CORRECT AT TIME OF FIELD INSPECTION.

QC Communications  
 UNIT F2  
 22 Powers Rds  
 Seven Hills NSW 2147  
 ABN 80 079 324 299



REVISION	DATE	REV.	REVISION DESCRIPTION	CHK'D	APP'D.

CONTACT ROSS OATES  
 OFFICER PH: - 02 8226 3203

PROJECT NUMBER  
 UEC-AARNS-104  
 PLAN No. Uecomm 12/02

SYDNEY / UBD REF 14-P10



UECOMM  
 SYDNEY

DRAWN NCA  
 20.01.03

DESIGN CHECKED

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APPROVED

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DRG No. OFN5/SYD/2321-1

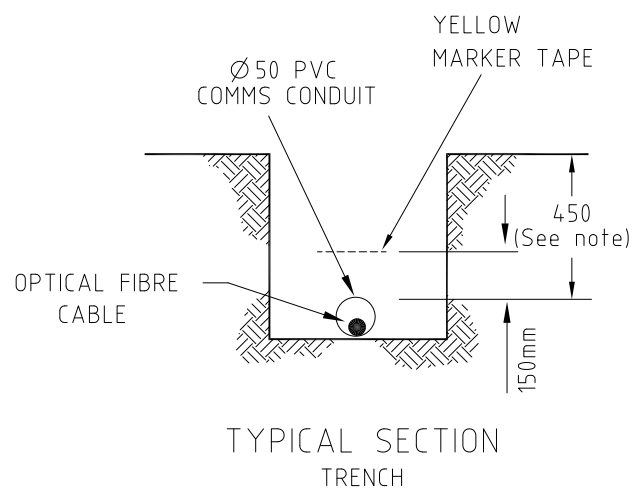
U/G OPTICAL FIBRE CABLE RUN  
 AUSTRALIAN TECHNOLOGY PARK  
 CORNWALLIS ST TO REDFERN ST  
 REDFERN NSW 2016

A3

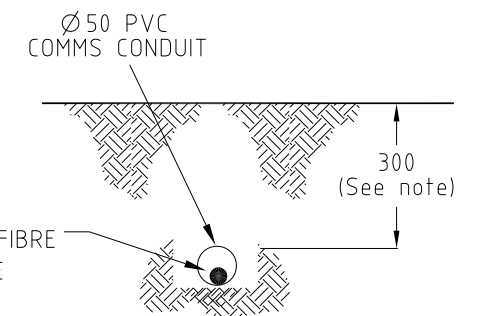
ADJOINS OFN5/SYD/2146-1

LEGEND

- ELECTRICITY POLE
- O/H FIBRE OPTIC CABLE
- CABLE CONDUIT (TRENCHING)
- CABLE CONDUIT (BORE TUNNELLING)
- UE P2 PIT
- UE P5 PIT
- UE P6 PIT
- UE P8 PIT
- UE P9 PIT
- BL - BUILDING LINE
- BOK - BACK OF KERB
- CL - CENTRELINE OF CONDUIT
- TP - TURNING POINT OF CONDUIT
- FENCE LINE, FL
- TELSTRA MANHOLE
- TELSTRA PIT
- OPTICAL FIBRE JOINT
- JOINT LOOP (m) - POLE / UNDERGROUND
- CABLE HEAD POLE
- 0.6m - CABLE DEPTH



- Note:
- Conduit depths quoted are approximate only and may change due to unforeseen circumstances.
  - In all instances it is recommended that the position of conduits & cables should be proved on site by hand, prior to commencement of works.



SECTION A-A  
BORE

- Note:
- Conduit depths quoted are approximate only and may change due to unforeseen circumstances.
  - In all instances it is recommended that the position of conduits & cables should be proved on site by hand, prior to commencement of works.

LAWSON ST

64-74

BOK 12.5  
PIT 4.0  
BL 0.0

P100  
3.0m

LAWSON SQ

P50 38.0m

GIBBONS ST

Tower 1

1

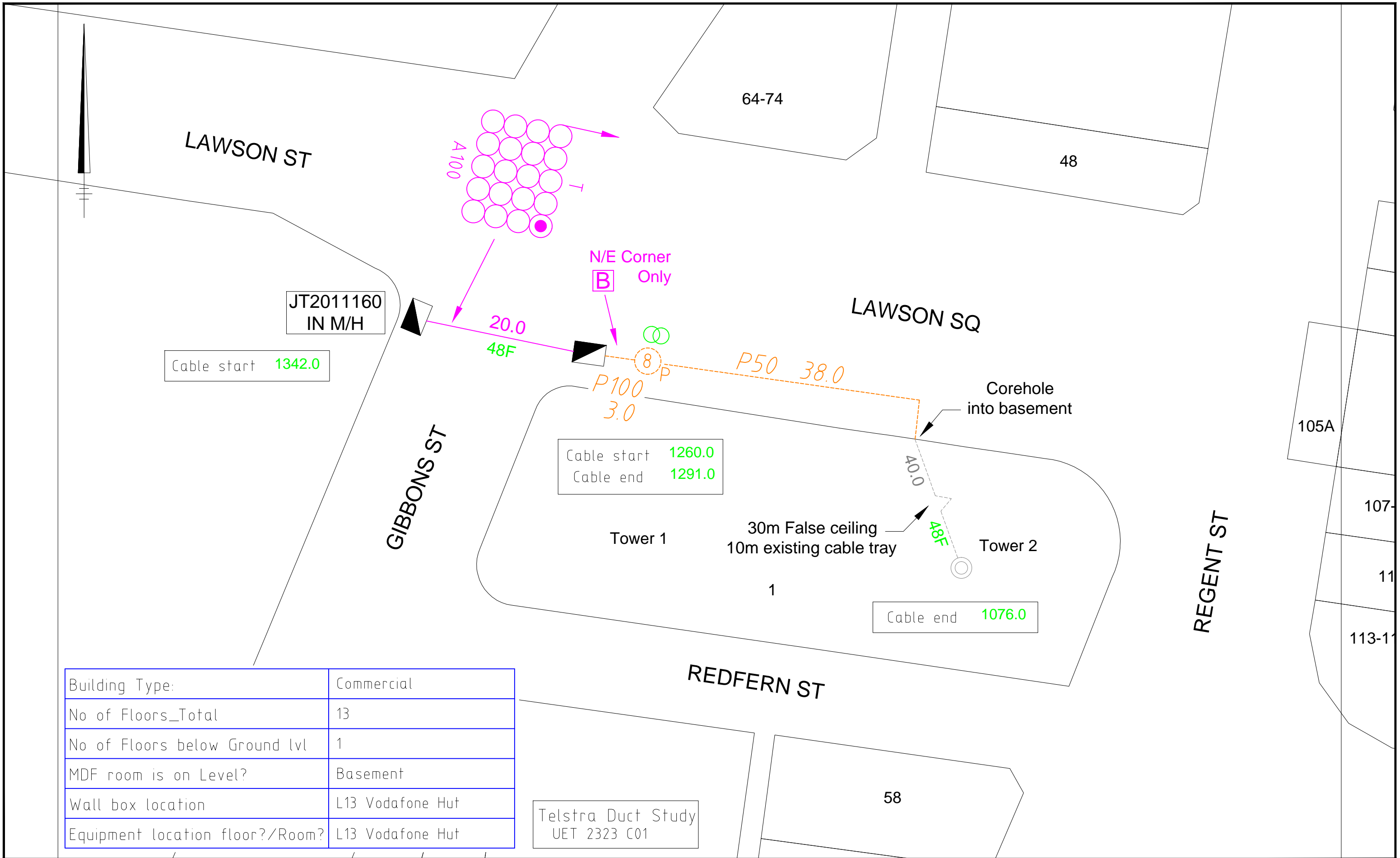
Tower 2

REDFERN ST

REGENT ST

DRAWING NOT TO SCALE

REVISION						CONTACT OFFICER	PH:	DRAWN DN 26.06.15	DRG No. OFN5/SYD/2628-1
						PROJECT NUMBER	VODAS-172		
						PLAN No.		APPROVED	U/G OPTICAL FIBRE CABLE RUN 1 LAWSON SQUARE  REDFERN NSW 2016
						SYDWAY / UBD REF / STREET SMART 297-F8 256-A4			
	DATE	REV.	REVISION DESCRIPTION			CHECKED	APP'D.		



Building Type:	Commercial
No of Floors_Total	13
No of Floors below Ground lvl	1
MDF room is on Level?	Basement
Wall box location	L13 Vodafone Hut
Equipment location floor?/Room?	L13 Vodafone Hut

Telstra Duct Study  
UET 2323 C01

REVISION	DATE	DESCRIPTION

-----	PROPOSED NEW BUILD
-----	PROPOSED NEW SUBDUCT
-----	PROPOSED AERIAL ROUTE
-----	EXISTING OTHER NETWORK
-----	EXISTING SUBDUCT
-----	EXISTING UECOMM DUCT



CREATING TELECOMMUNICATIONS



Powering Network Convergence

**WARNING**  
THIS PLAN CONTAINS COMMERCIAL SENSITIVE INFORMATION AND IS TO BE TREATED ACCORDINGLY. NO SUCH INFORMATION IS TO BE PASSED ON TO OTHER PARTIES WITHOUT WRITTEN APPROVAL.

File No.:  
VODAS-172.dwg

Prepared by: DN  
Date: 25/06/15  
Approved by: AW  
Date: 25/06/15

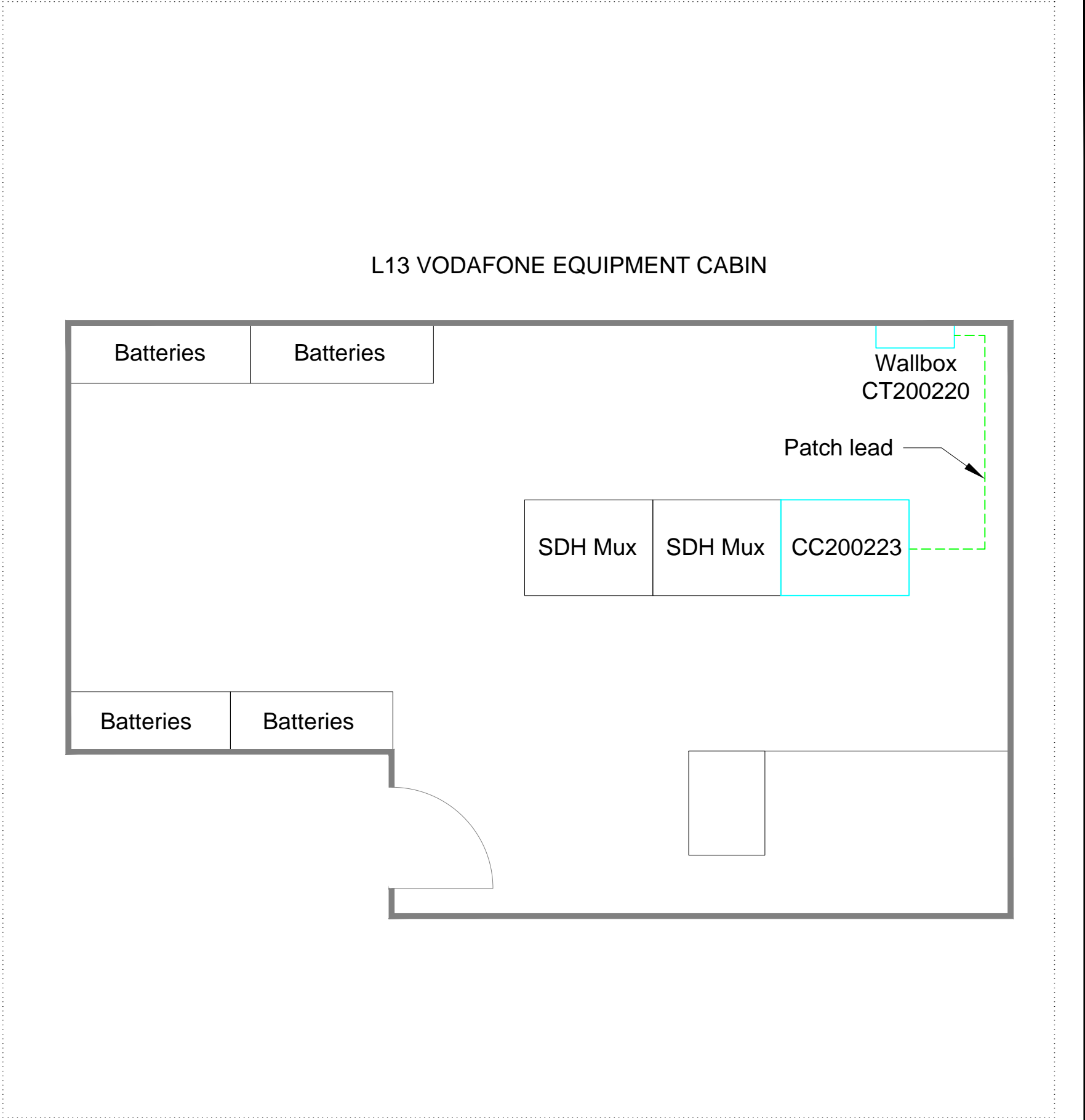
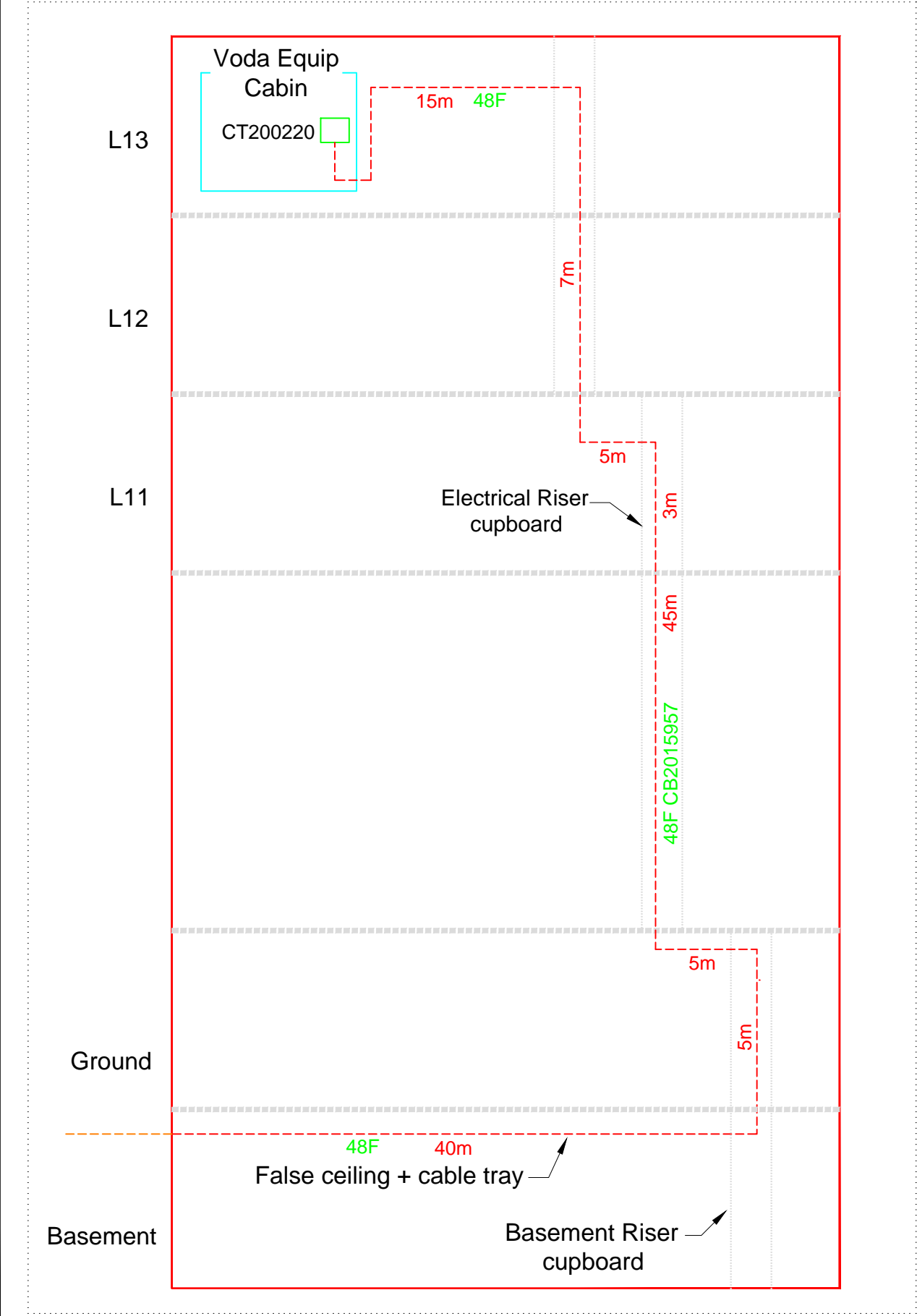
Scale:  
Not to Scale

Title:  
**UECOMM AS-BUILT PLAN**  
**VODAS-172**  
**1 Lawson Sq, REDFERN, NSW**

Drawing No.:  
VODAS-172

SHEET No.:  
1 OF 2

A3



REVISION	DATE	DESCRIPTION

PROPOSED NEW BUILD
PROPOSED NEW SUBDUCT
PROPOSED AERIAL ROUTE
EXISTING OTHER NETWORK
EXISTING SUBDUCT
EXISTING UECOMM DUCT



visionstream  
CREATING TELECOMMUNICATIONS



uecomm™  
Powering Network Convergence

WARNING

THIS PLAN CONTAINS COMMERCIALY SENSITIVE INFORMATION AND IS TO BE TREATED ACCORDINGLY. NO SUCH INFORMATION IS TO BE PASSED ON TO OTHER PARTIES WITHOUT WRITTEN APPROVAL.

File No.:  
VODAS-172.dwg

Prepared by:	DN
Date:	25/06/15
Approved by:	AW
Date:	25/06/15
Scale:	Not to Scale

Title:

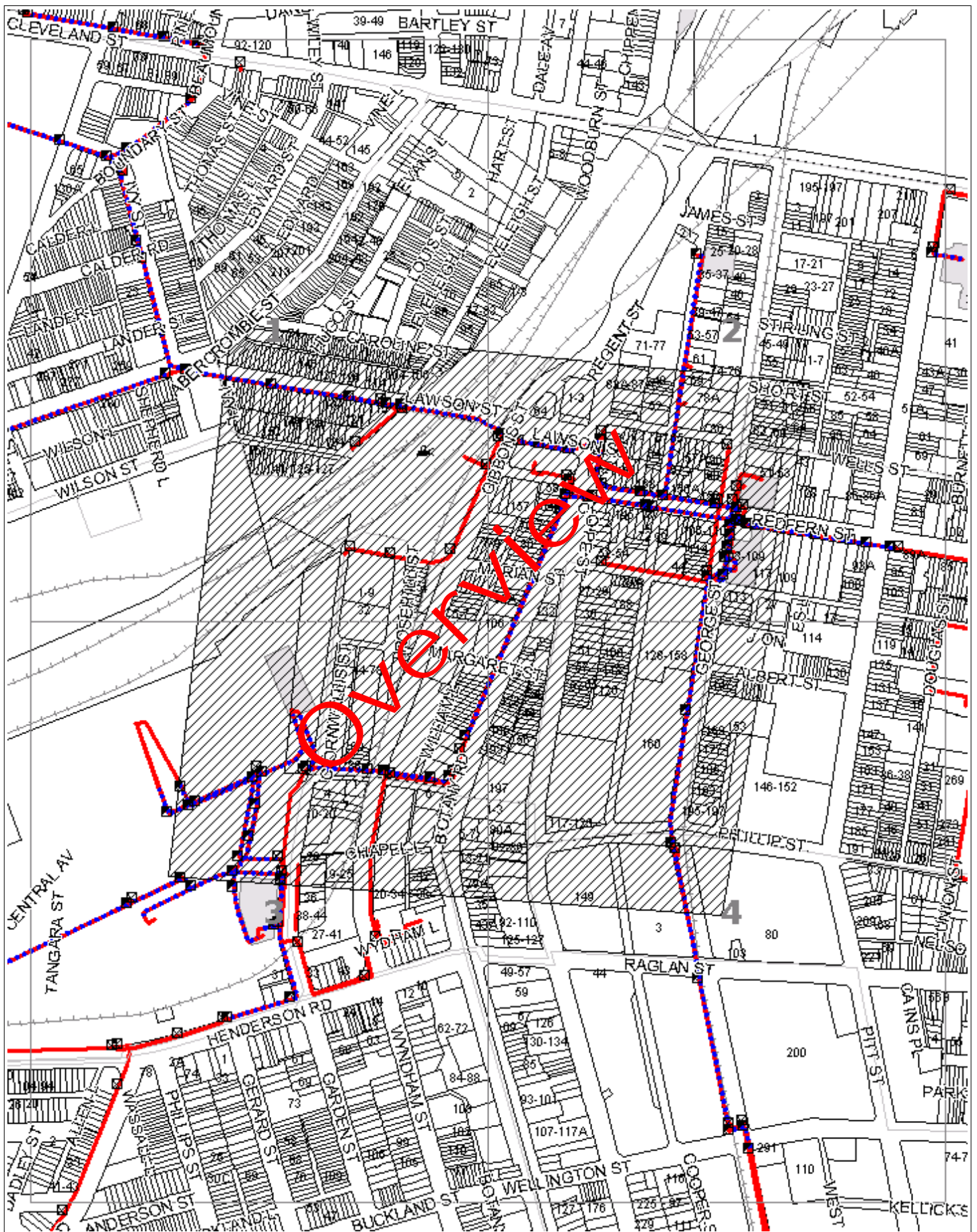
UECOMM AS-BUILT PLAN  
VODAS-172  
1 Lawson Sq, REDFERN, NSW

Drawing No.:  
VODAS-172

SHEET No.:  
2 OF 2

A3





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Sequence Number: 74320649

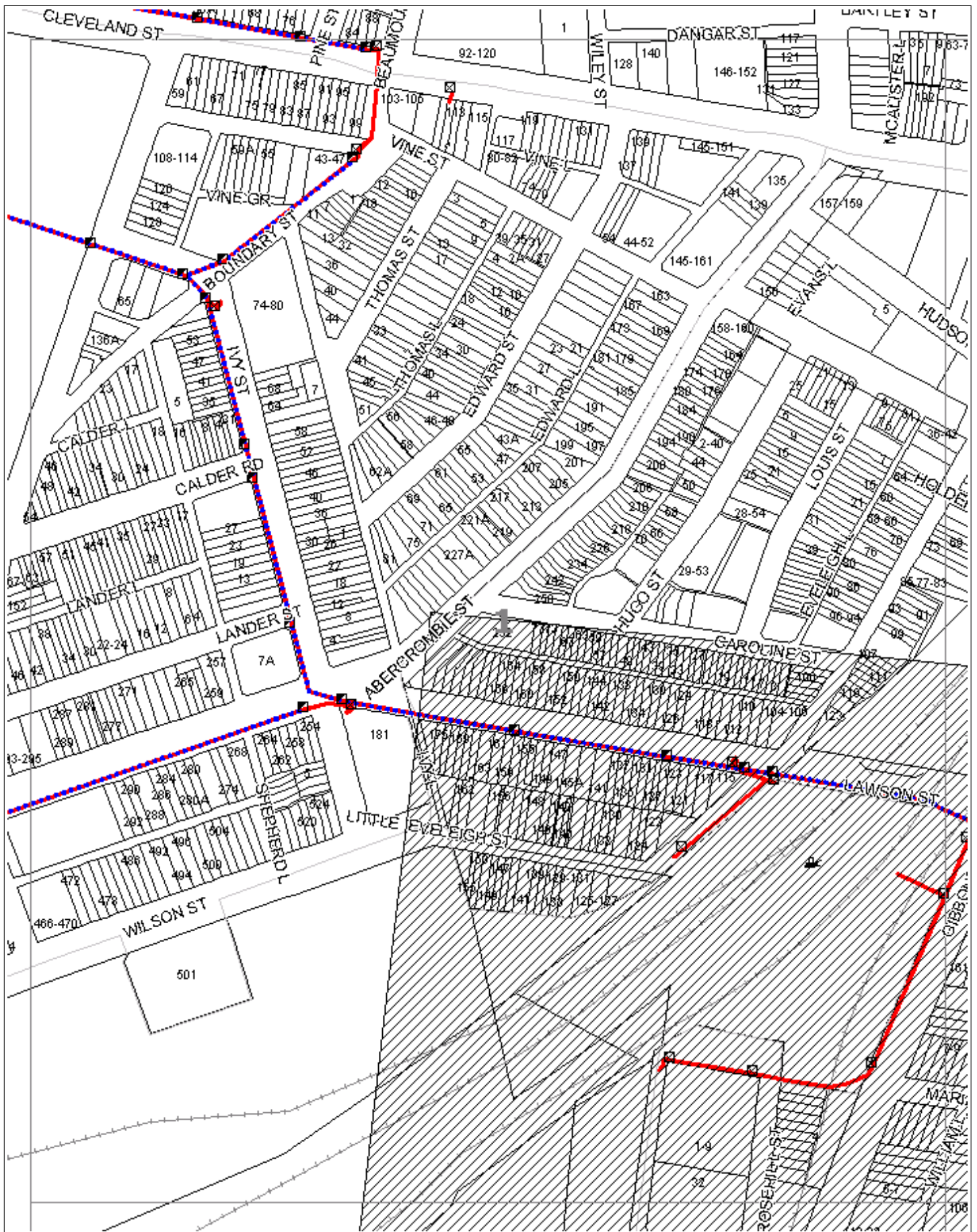
Date Generated: 10/08/2018



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







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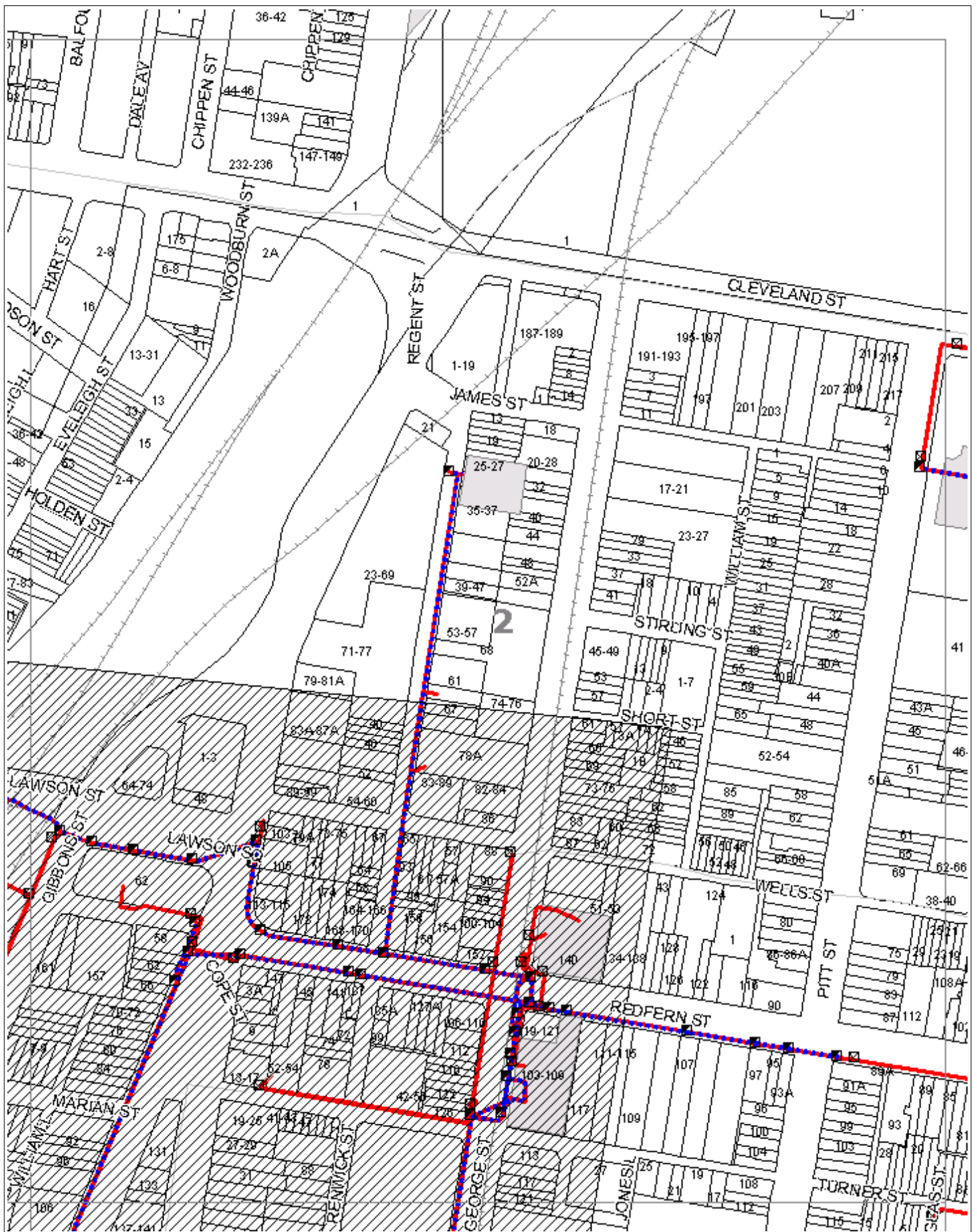
Sequence Number: 74320649

Date Generated: 10/08/2018



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Sequence Number: 74320649

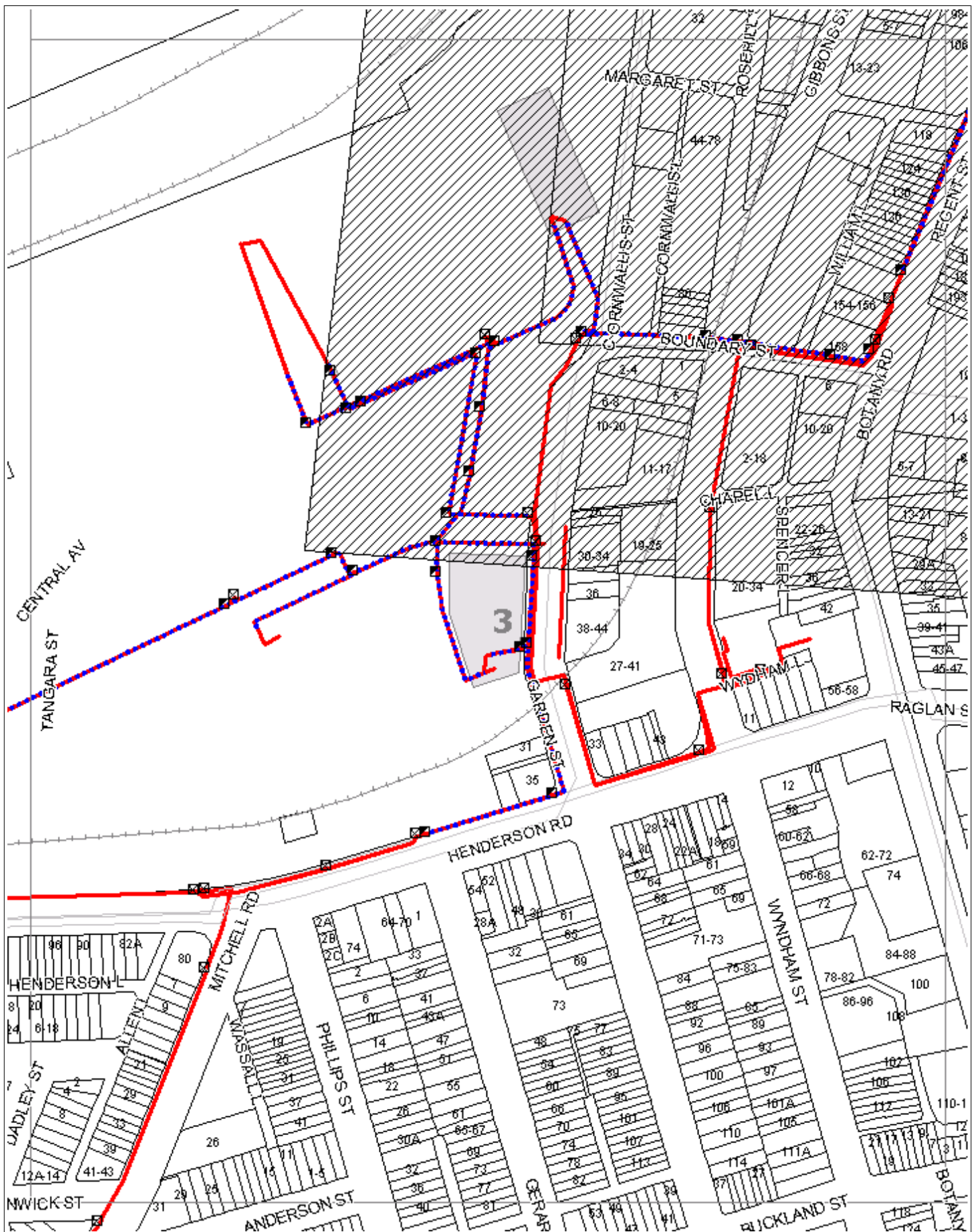
Date Generated: 10/08/2018



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Sequence Number: 74320649

Date Generated: 10/08/2018



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Sequence Number: 74320649

Date Generated: 10/08/2018



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For urgent onsite assistance contact 1800 505 777  
Optus Limited ACN 052 833 208





09/08/2018 01:58:01 AM

Dear Sir/Madam,

Sequence Number: 74320653

Primus Telecom have existing underground assets located within the area you have identified.

The Primus asset is contained in the Telstra duct / conduit network and to an adjacent Primus Pit. It is your responsibility that this duct is physically located by Telstra.

The Primus conduit has a minimum 450mm cover to the Finished Ground Level.

Attached is a drawing identifying the location of the Primus Pit and conduit.

Please ensure excavating within two (2) metres of Primus assets is by hand method only.

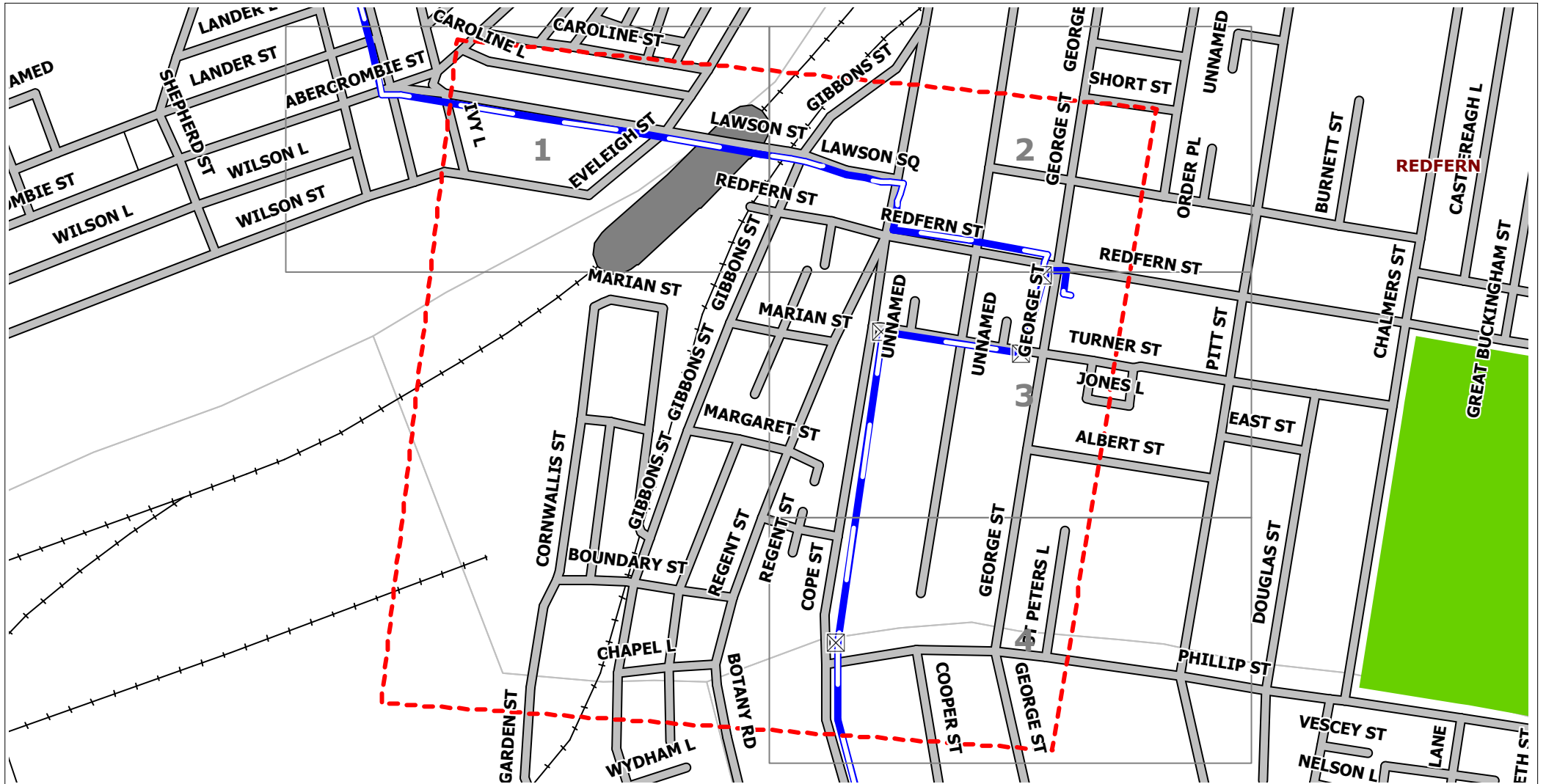
Thank you for your inquiry.

Primus Telecom



## Assets Affected

Sequence Number : 74320653 13-23 Gibbons Street, Redfern, NSW, 2016



Create Date: 09/08/2018

Scale: 1:1500

### DISCLAIMER:

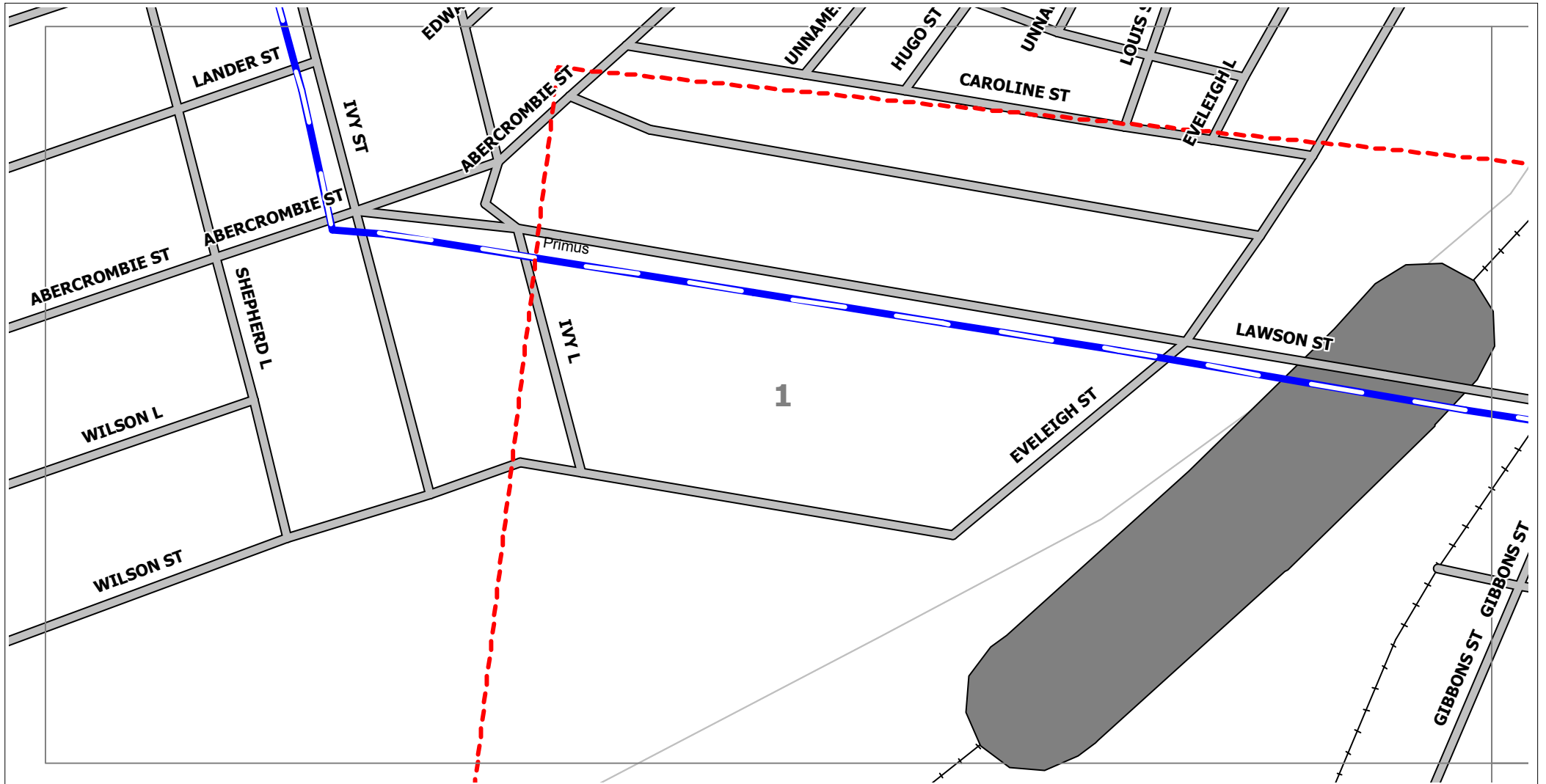
This document has been prepared solely for the use of Primus Telecom Pty Ltd for use in maintaining Primus facilities it has not been created for any other use. It should be scaled to locate Primus assets. No warranty is given that the information is accurate or complete.

### Legend

- |         |       |
|---------|-------|
| Manhole | Point |
| Cable   | Line  |
| Road    | Area  |

## Assets Affected

Sequence Number : 74320653 13-23 Gibbons Street, Redfern, NSW, 2016



Create Date: 09/08/2018

Scale: 1:1500

### DISCLAIMER:

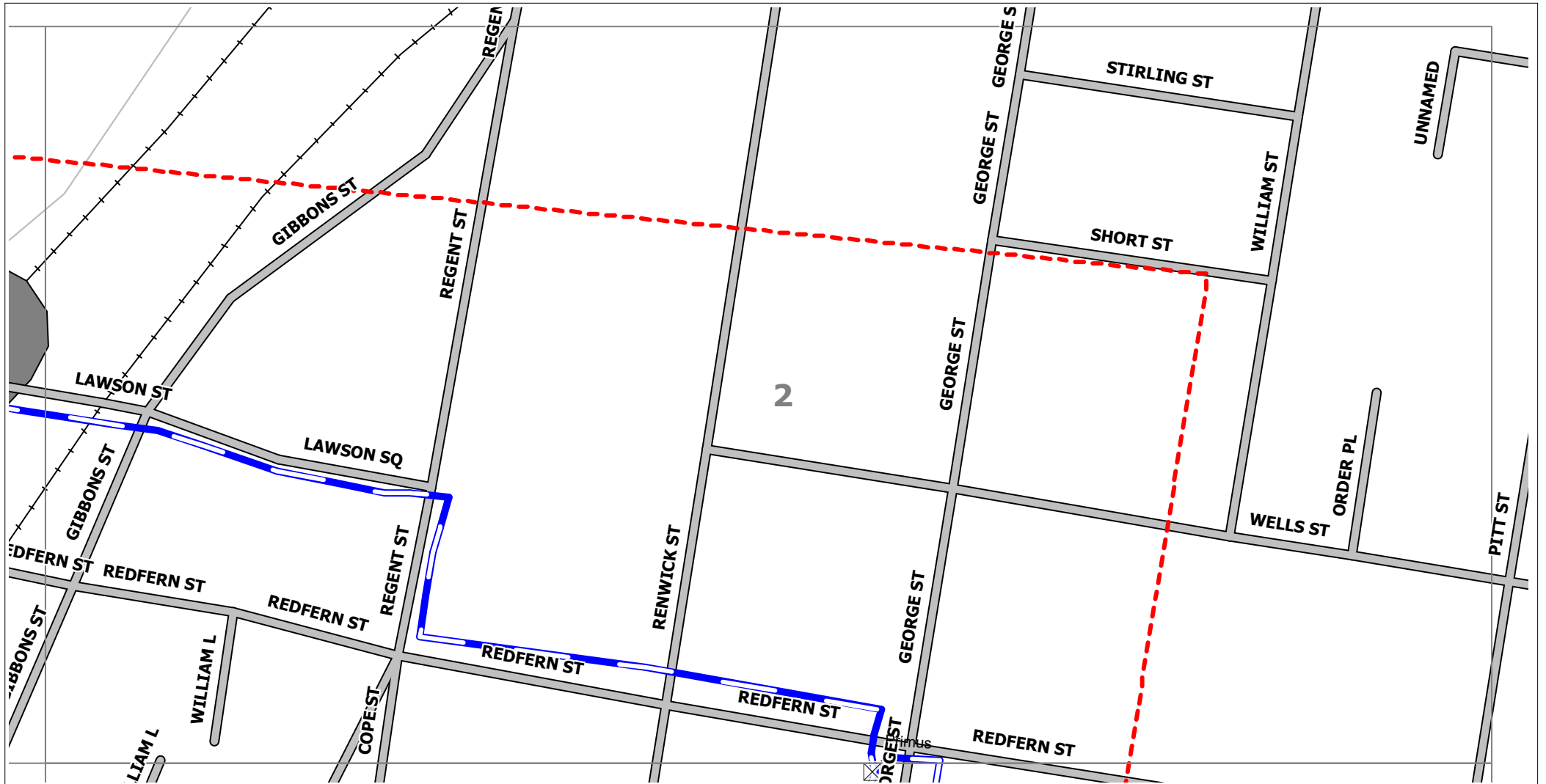
This document has been prepared solely for the use of Primus Telecom Pty Ltd for use in maintaining Primus facilities it has not been created for any other use. It should be scaled to locate Primus assets. No warranty is given that the information is accurate or complete.

### Legend

- |         |       |
|---------|-------|
| Manhole | Point |
| Cable   | Line  |
| Road    | Area  |

## Assets Affected

Sequence Number : 74320653 13-23 Gibbons Street, Redfern, NSW, 2016



Create Date: 09/08/2018

Scale: 1:1500

### DISCLAIMER:

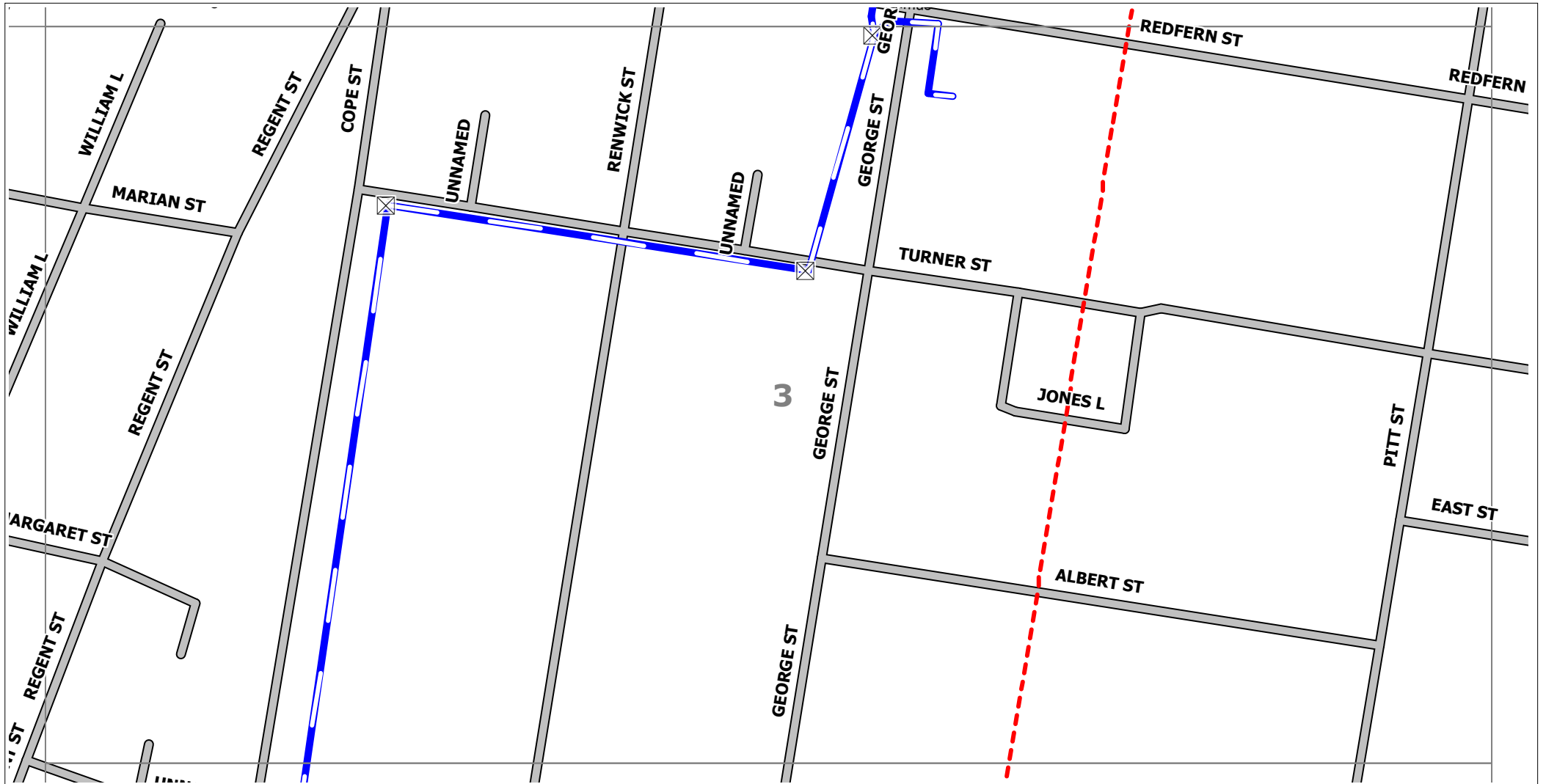
This document has been prepared solely for the use of Primus Telecom Pty Ltd for use in maintaining Primus facilities it has not been created for any other use. It should be scaled to locate Primus assets. No warranty is given that the information is accurate or complete.

### Legend

- |         |       |
|---------|-------|
| Manhole | Point |
| Cable   | Line  |
| Road    | Area  |

## Assets Affected

Sequence Number : 74320653 13-23 Gibbons Street, Redfern, NSW, 2016



Create Date: 09/08/2018

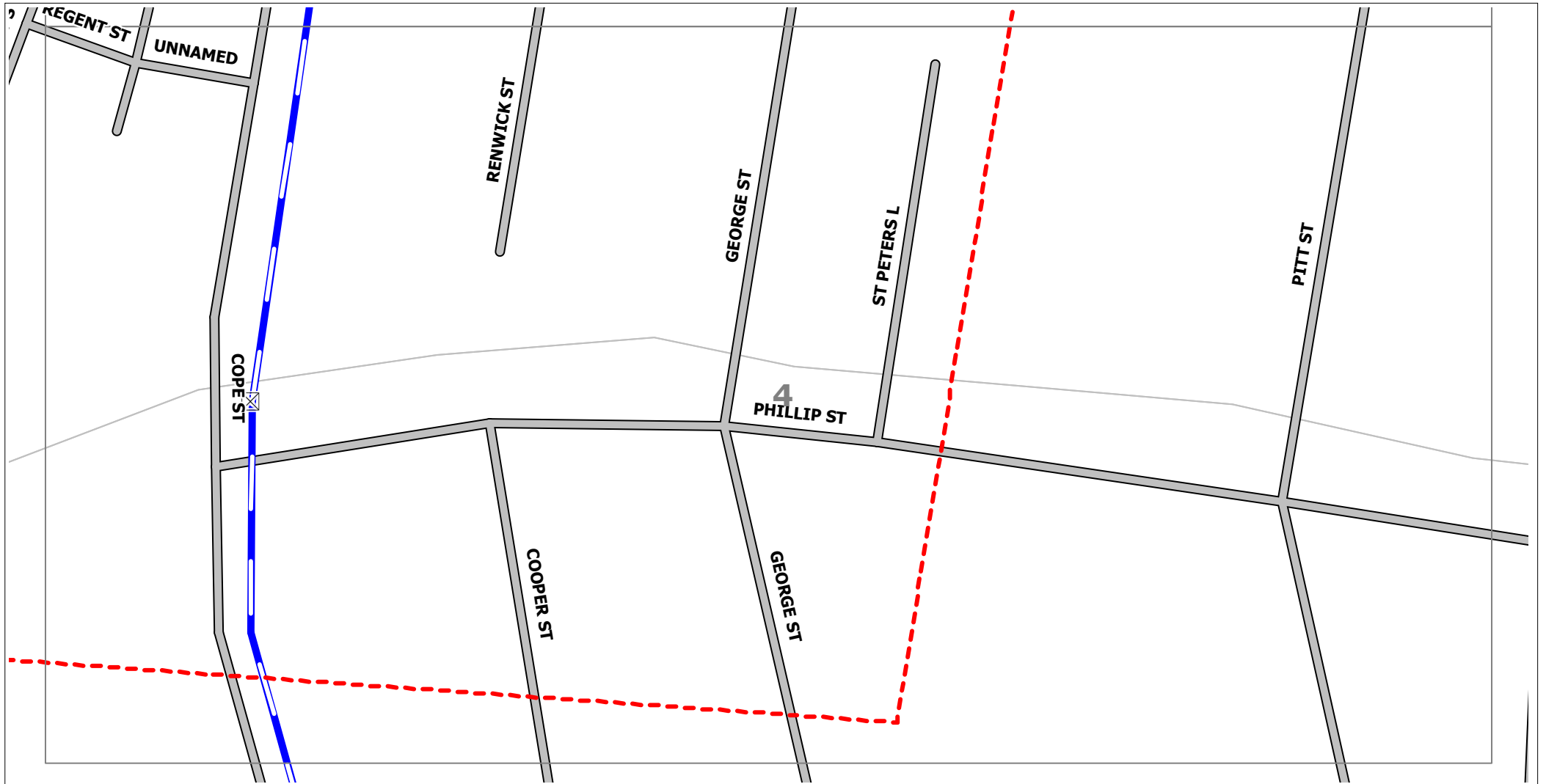
Scale: 1:1500

### DISCLAIMER:

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### Legend

- |         |       |
|---------|-------|
| Manhole | Point |
| Cable   | Line  |
| Road    | Area  |



Create Date: 09/08/2018

Scale: 1:1500

## DISCLAIMER:

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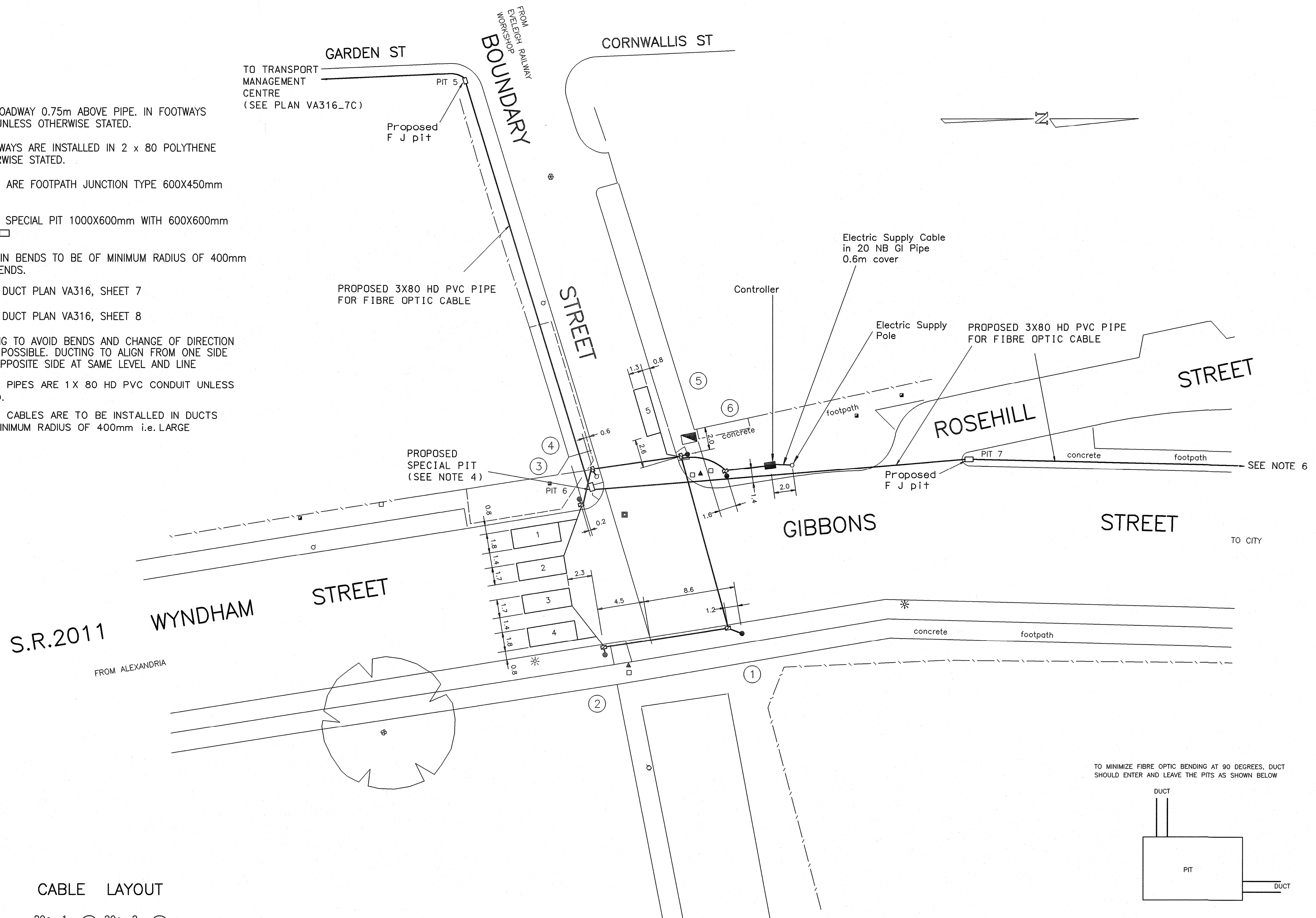
## Legend

- |         |       |
|---------|-------|
| Manhole | Point |
| Cable   | Line  |
| Road    | Area  |

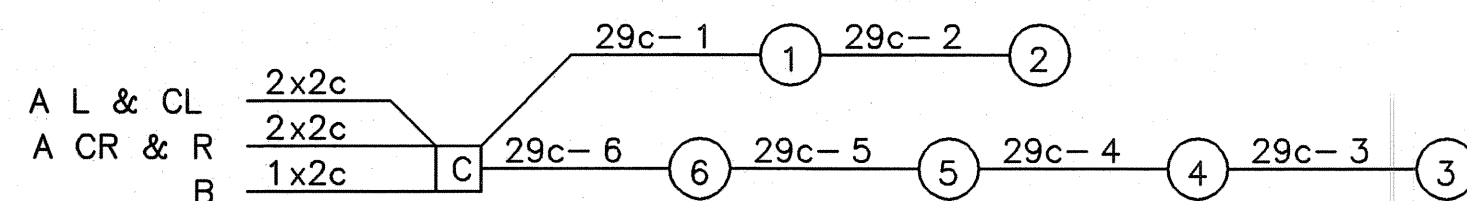


# NOTES

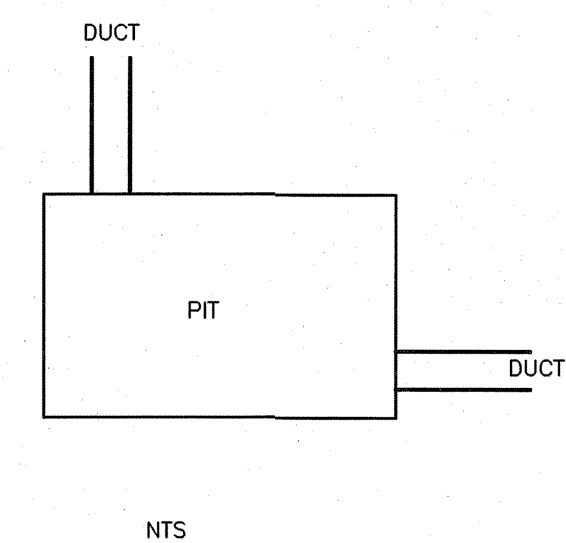
1. CABLE COVER: IN ROADWAY 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL CABLE IN FOOTWAYS ARE INSTALLED IN 2 x 80 POLYTHENE PIPE UNLESS OTHERWISE STATED.
3. ALL PROPOSED PITS ARE FOOTPATH JUNCTION TYPE 600X450mm SHOWN THUS: □
4. EVERY 3rd PIT IS A SPECIAL PIT 1000X600mm WITH 600X600mm LID SHOWN THUS: □
5. ALL OPTICAL FIBRE IN BENDS TO BE OF MINIMUM RADIUS OF 400mm i.e. LARGE SWEEP BENDS.
6. REFER TO OVERALL DUCT PLAN VA316, SHEET 7
7. REFER TO OVERALL DUCT PLAN VA316, SHEET 8
8. FIBRE OPTIC DUCTING TO AVOID BENDS AND CHANGE OF DIRECTION AND DEPTH WHERE POSSIBLE. DUCTING TO ALIGN FROM ONE SIDE OF A PIT TO THE OPPOSITE SIDE AT SAME LEVEL AND LINE
9. ALL ROADCROSSING PIPES ARE 1X 80 HD PVC CONDUIT UNLESS OTHERWISE STATED.
11. ALL OPTICAL FIBRE CABLES ARE TO BE INSTALLED IN DUCTS WITH BENDS OF MINIMUM RADIUS OF 400mm i.e. LARGE SWEEP BENDS.



## CABLE LAYOUT



TO MINIMIZE FIBRE OPTIC BENDING AT 90 DEGREES, DUCT SHOULD ENTER AND LEAVE THE PITS AS SHOWN BELOW



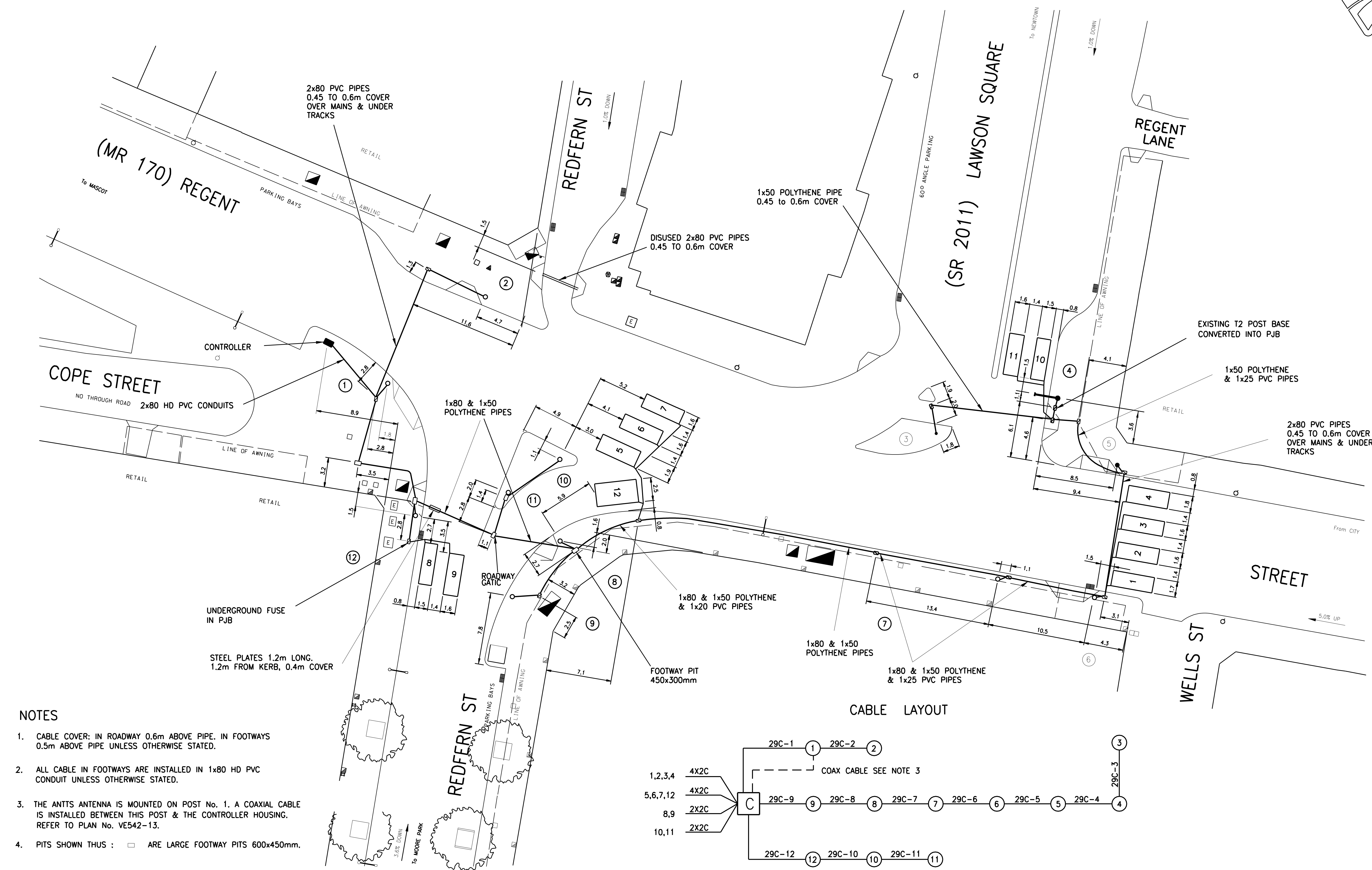
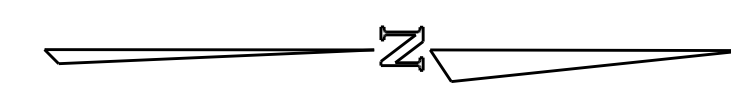
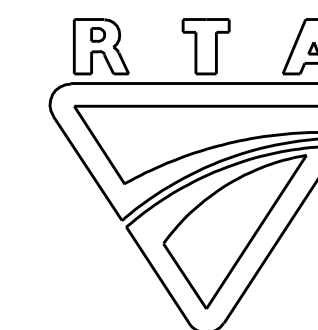
## CABLE INSTALLATION

A ORIGINAL ISSUE B ISSUE DUCT INSTALLED TO NEW DUCT TRANSPORT MANAGEMENT CENTRE A.SONN 20/10/97 C ISSUE DUCT LAYOUT REVISIONS FOR DUCT TRANSPORT MANAGEMENT CENTRE B.K. 11-03-99 C.Z	REFERENCE PLANS		U.B.D. REF. MAP 3 03 I.S.G. E 318 230 CO-ORDS N 1 248 000	APPROVED  .....  ELECTRICAL DESIGN MANAGER  DATE.....	ROADS AND TRAFFIC AUTHORITY OF NSW  CITY OF SOUTH SYDNEY S.R. 2011 GIBBONS STREET AND BOUNDARY STREET REDFERN	CENTRAL REGION		SHEET 2  ISSUE A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	
	Specification SI/TCS/7 Det. Sched. Exp. VD018-10 SSG Dis. Seq. VD018-8 DESIGN LAYOUT SHT 1 CABLE CONN SHT 2	CORRIGAN ELECTRICS DESIGNED  PASSED  RECOMMENDED	SCALE 5 0 5 10			FILE 413 TS 268 REGN. 2011.413.W.0689	SUPERSEDES SHEET —		

0170.412.W.0783

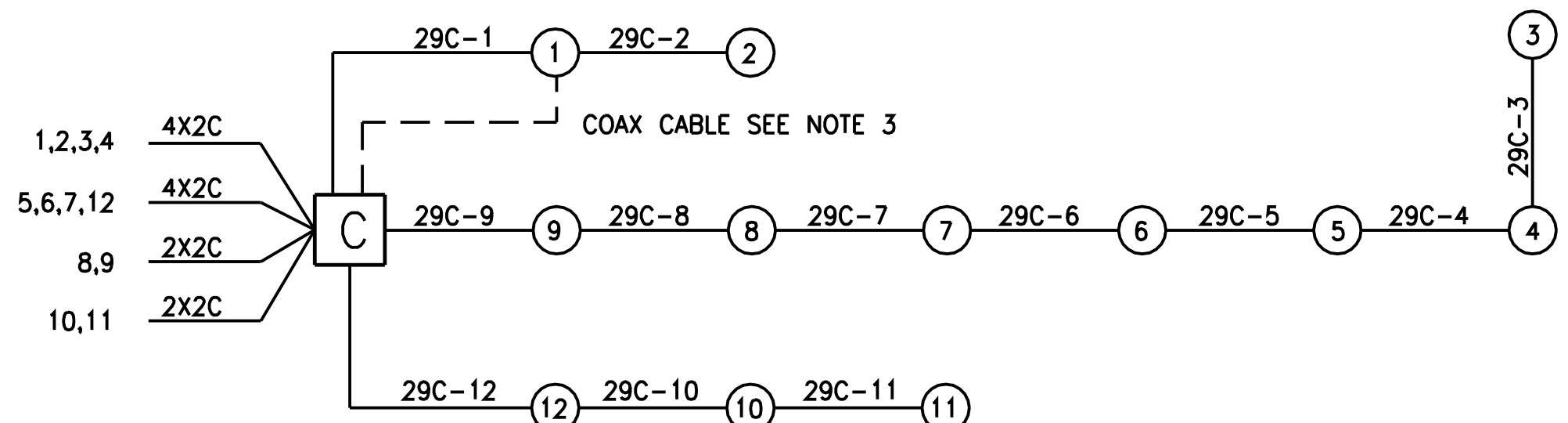
DRAWN BY CADD  
DO NOT AMEND MANUALLY

DATE IN SERVICE : 4/12/74



CABLE LAYOUT

- NOTES
- 1. CABLE COVER: IN ROADWAY 0.6m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
  - 2. ALL CABLE IN FOOTWAYS ARE INSTALLED IN 1x80 HD PVC CONDUIT UNLESS OTHERWISE STATED.
  - 3. THE ANTTS ANTENNA IS MOUNTED ON POST No. 1. A COAXIAL CABLE IS INSTALLED BETWEEN THIS POST & THE CONTROLLER HOUSING. REFER TO PLAN No. VE542-13.
  - 4. PITS SHOWN THUS : ARE LARGE FOOTWAY PITS 600x450mm.



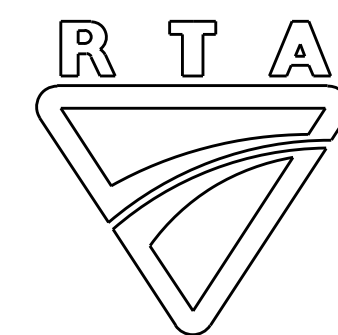
A ORIGINAL ISSUE	<div>APPROVED  POSITION ELECTRICAL DESIGN MANAGER DATE 11.07.2011</div>	Roads and Traffic Authority, N.S.W		EXISTING <input checked="" type="checkbox"/> PROPOSED <input type="checkbox"/>	
		SYDNEY CITY COUNCIL AREA		CADD FILE: <b>WV0783_21A_INS.dgn</b>	
		TRAFFIC SIGNALS AT REGENT ST (MR 170), REDFERN ST AND LAWSON SQUARE (SR 2011) REDFERN		SCALE 5 0 (1:200) 5 10	ISSUE <b>A</b>
		CABLE INSTALLATION		FILE 413 TS 132	SHEET 21
		TCS No 783		REGN. <b>0170.412.W.0783</b>	SHEET <b>21</b>

PUBLIC UTILITY LEGEND	REFERENCE PLANS	U.B.D. Ref.
HYDRANT	SYMBOLS/ABBS. VD003-6	Map 256 B4
STOP VALVE	STD. POSIT. VD001-5	I.S.G. Co-ords E 318 415 N 1 248 358
GAS VALVE	DET. SCHED EXP. VD018-10	DESIGNED CNJ
SEWER MANHOLE	PRES. DETECT. VC005-17	CHECKED
TELECOM PIT	SSG DIS. SEQ. VD018-8	C. BARTOLO
ELECT. LIGHT POLE	DESIGN LAYOUT. SHT 20	SITE CHECKED
POWER POLE	CABLE CHART. SHT 18	I. HAYES 11.07.2011
STAY POLE		RECOMMENDED
TELEPHONE BOX	SURVEYOR: City of Sydney Council	
TELECOM PILLAR	DATE : August 2005	

7000.412.VV.0952

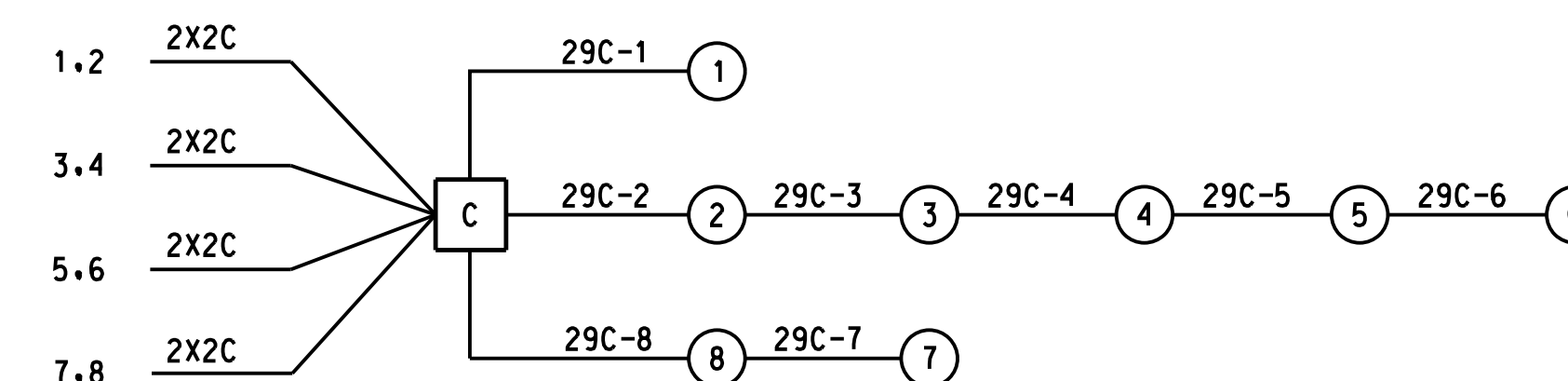
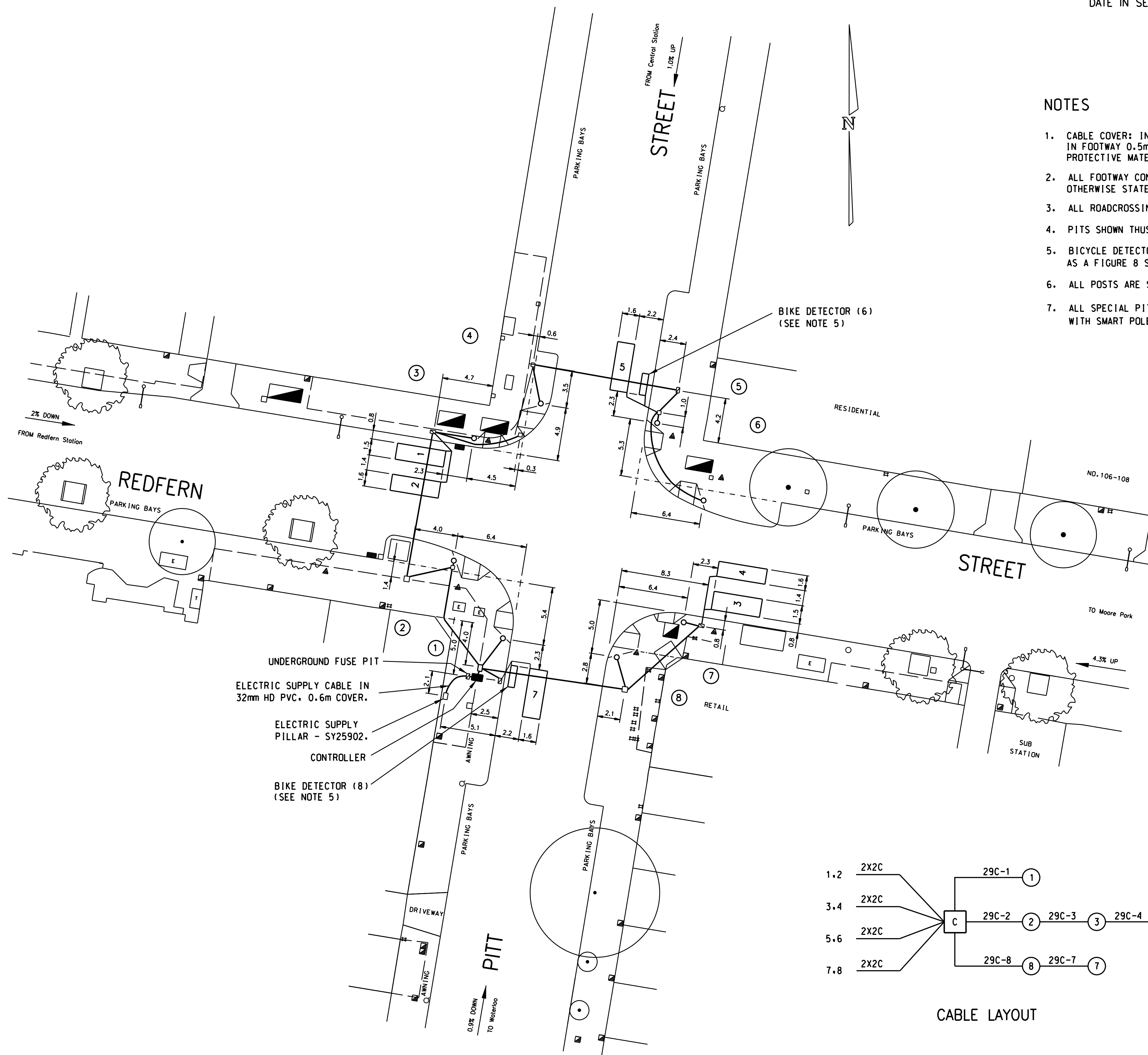
DRAWN BY CADD  
DO NOT AMEND MANUALLY

DATE IN SERVICE : 19/02/75



### NOTES

1. CABLE COVER: IN ROADWAY 0.6m ABOVE PIPE.  
IN FOOTWAY 0.5m ABOVE APPROVED  
PROTECTIVE MATERIAL UNLESS OTHERWISE STATED.
2. ALL FOOTWAY CONDUITS 1x80HD PVC UNLESS  
OTHERWISE STATED.
3. ALL ROADCROSSING PIPES ARE 2x75 POLYTHENE.
4. PITS SHOWN THUS □ ARE 0.6x0.45m.
5. BICYCLE DETECTORS (6 & 8) ARE 0.6x2.0m INSTALLED  
AS A FIGURE 8 SINGLE LOOP.
6. ALL POSTS ARE SMART POLE TYPE.
7. ALL SPECIAL PITS SHOWN THUS □ ARE ASSOCIATED  
WITH SMART POLES.

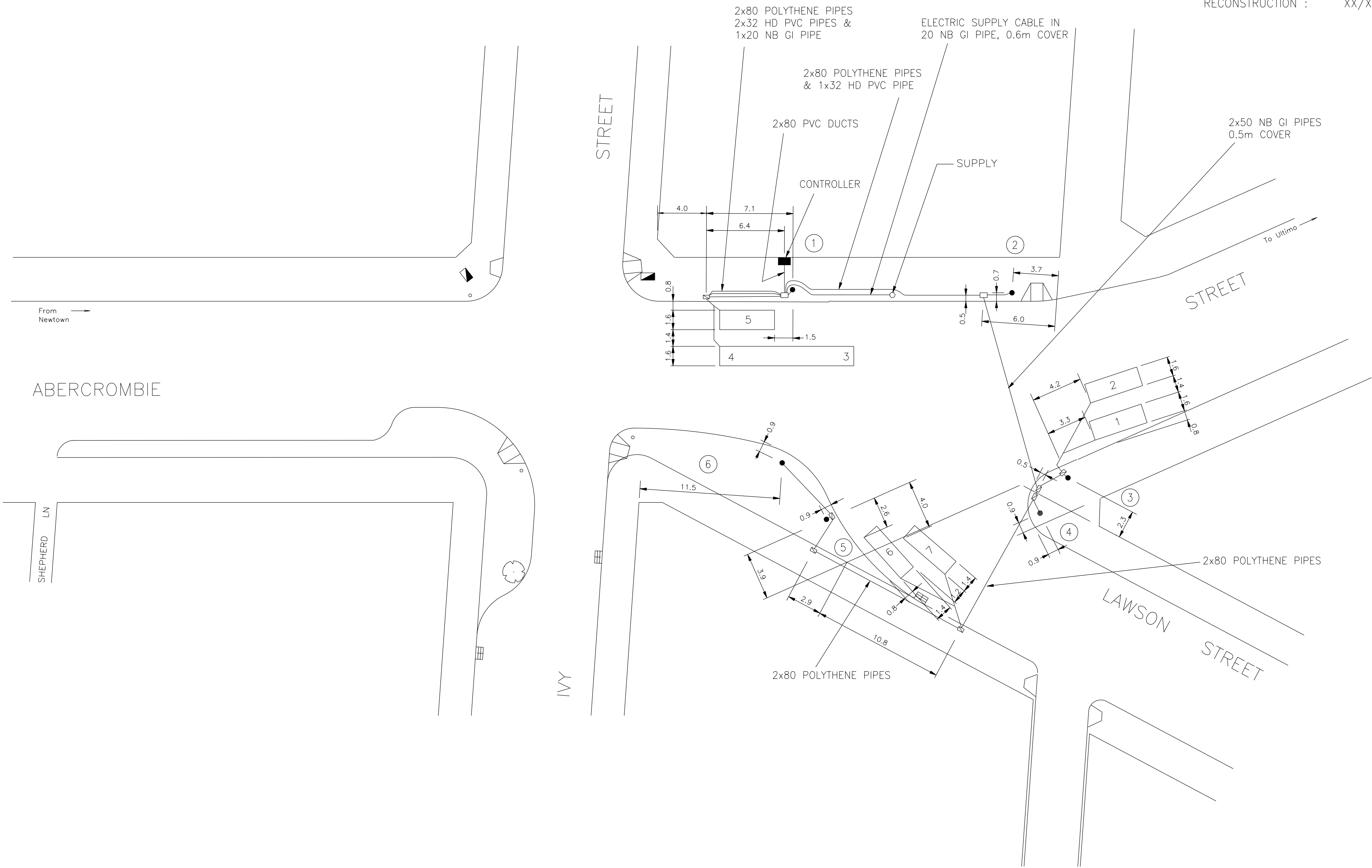
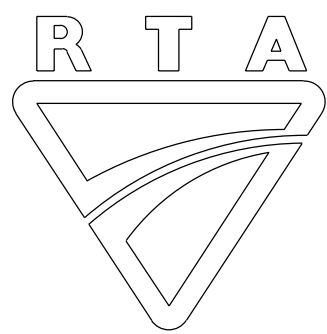


CABLE LAYOUT

A ORIGINAL ISSUE	<b>PUBLIC UTILITY LEGEND</b>		<b>REFERENCE PLANS</b>		<b>U.B.D. Ref. Map 256 C4</b>		<b>APPROVED</b>		<b>Roads and Traffic Authority, N.S.W.</b>		<b>EXISTING</b> <input checked="" type="checkbox"/> <b>PROPOSED</b> <input type="checkbox"/>	
	HYDRANT □		SYMBOLS/ABBS. VD003-6		I.S.G. Co-ords E 318 753 N 1 248 250		DESIGNED CNJ		SYDNEY CITY COUNCIL AREA		CADD FILE: VV0952_10A_INS.dgn	
	STOP VALVE ▲		STD. POSIT. VD001-5		CHECKED C. BARTOLO		17/02/10		TRAFFIC SIGNALS AT		SCALE 5 0 (1:200) 5 10	
	GAS VALVE #		DET. SCHED. EXP. VD018-10		SITE CHECKED		I. HAYES		REDFERN STREET AND PITT STREET,		FILE 413 TS 138	
	SEWER MANHOLE @		PRES. DETECT. VC005-17		RECOMMENDED		DATE 20/04/10		REDFERN		SUPERSEDES SHEET/ISSUE 7B	
TELECOM PIT □		SSG DIS. SEQ. VD018-8								REGN. 7000.412.VV.0952		
ELECT. LIGHT POLE ○		DESIGN SHT 9								SHEET 10		
POWER POLE ○		CHART SHT 11										
STAY POLE ○												
TELEPHONE BOX □												
TELECOM PILLAR □												

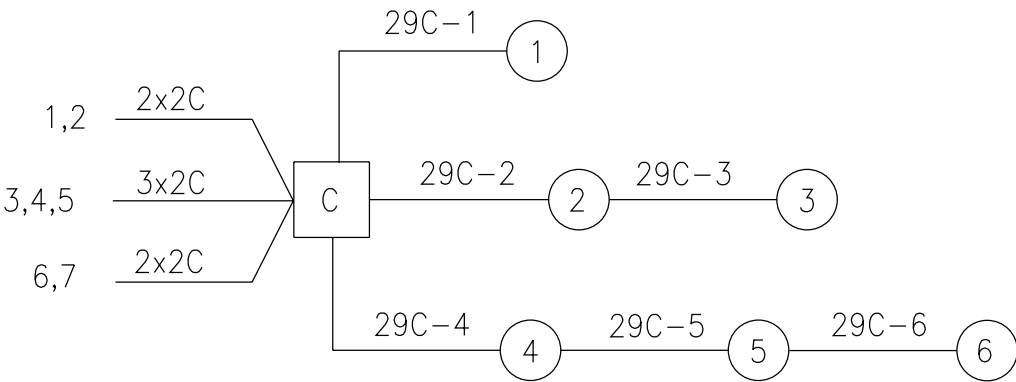
DRAWN BY CADD  
DO NOT AMEND MANUALLY

DATE IN SERVICE : 22/09/76  
RECONSTRUCTION : XX/XX/XX



NOTES

- COVER ABOVE CONDUITS IS 0.6m IN ROADWAYS  
& 0.5m IN FOOTWAYS UNLESS OTHERWISE STATED.
- ALL FOOTWAY CONDUITS ARE 1x80 HD PVC  
OR 1x80 POLYTHENE PIPE UNLESS OTHERWISE STATED.
- ALL ROADWAY CONDUITS ARE AS SHOWN.



CABLE LAYOUT

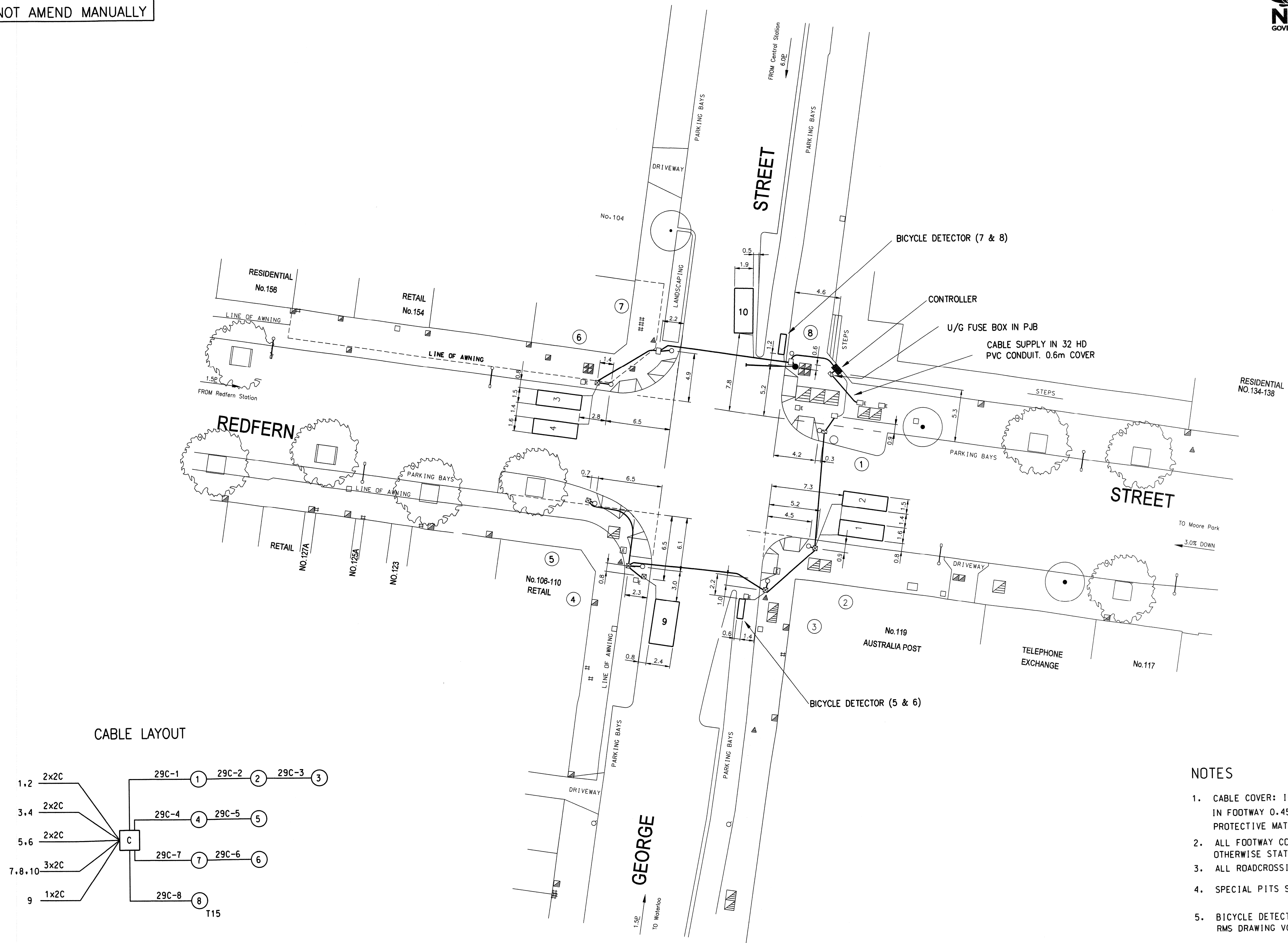
A ORIGINAL ISSUE B ISSUE:- WAE 14/09/2005 CONTROLLER & POST 1 REPOSITIONED. A.C./M.M. 20/09/05	PUBLIC UTILITY LEGEND		REFERENCE PLANS		U.B.D.Ref 14 P6		APPROVED		Roads and Traffic Authority,N.S.W		EXISTING <input checked="" type="checkbox"/> PROPOSED <input type="checkbox"/>	
	HYDRANT <input type="checkbox"/> SYMBOLS/ABBS.		VD003-6		I.S.G. E: 319 553 CO-ORDS N: 1 247 048		TRAFFIC ENG.		SOUTH SYDNEY COUNCIL AREA		CADD FILE: WV1141_12B_INS.dgn	
	STOP VALVE <input type="checkbox"/> STD. POSIT.		VD001-5		DESIGNED CNJ		TECH. MANAGER		TRAFFIC SIGNALS AT INTERSECTION OF		SCALE 5 0 (1:200) 5 10	
	GAS VALVE <input type="checkbox"/> DET. SCHED. EXP.		VD018-10		CHECKED M.M.		DATE 20/09/05		ABERCROMBIE STREET AND LAWSON STREET		FILE 413 TS 107	
SEWER MANHOLE <input type="checkbox"/> PRES. DETECT.		VC005-17		C. BATOLO 15/10/05		LEN CLAY		REDFERN		REGN. 7000.413.WV.1141		
TELECOM PIT <input type="checkbox"/> SSG. DIS. SEQ.		VD018-8		SITE CHECKED		RECOMMENDED		CABLE INSTALLATION		TCS No 1141		
ELECT. LIGHT POLE <input type="checkbox"/> DESIGN LAYOUT		SHEET 11								SUPERSEDES SHEET/ISSUE 10A		
POWER POLE <input type="checkbox"/> CABLE CHART		SHEET 13								ISSUE B		
STAY POLE <input type="checkbox"/>										SHEET 12		
TELEPHONE BOX <input type="checkbox"/> SURVEYOR : S. SYDNEY CCL												
TELECOM PILLAR <input type="checkbox"/> DATE :												



7000.412.W.1419













**Transport**  
Roads & Maritime  
Services




1. CABLE COVER: IN ROADWAY 0.6m ABOVE PIPE,  
IN FOOTWAY 0.45m ABOVE APPROVED  
PROTECTIVE MATERIAL UNLESS OTHERWISE STATED.
2. ALL FOOTWAY CONDUITS 1x80 HD PVC UNLESS  
OTHERWISE STATED.
3. ALL ROADCROSSING PIPES ARE 1x80 PVC.
4. SPECIAL PITS SHOWN THUS ☐ ARE 0.60m x 0.45m.  
☒ ARE 0.45m x 0.3m.
5. BICYCLE DETECTORS ARE IN ACCORDANCE WITH  
RMS DRAWING VC005-36A.

A ORIGINAL ISSUE

PUBLIC UTILITY LEGEND		REFERENCE PLANS		U.B.D. Ref. Map 256 214	
HYDRANT		SYMBOLS/ABBS.	V0003-6	I.S.G. Co-ords	E 318 594 N 1 248 27
STOP VALVE		SIT. POSIT	V0001-5	DESIGNED CORRIGAN CHECKED	JAMES COOPER ***** SITE CHECKED
GS VALVE		DET. SECH EXP	V0018-10		
SEWER MANHOLE		PRE. DETECT	V0005-17	M.MANIHANTHAN RECOMMENDED	
TELECOM PIT		SSG DIS. SEQ.	V0018-8		
ELECT LIGHT POLE		CS DESIGN LAYOUT	W1419-10		
POWER POLE		CABLE CHART	W1419-12		
STOP POLE		SURVEYOR CITY OF Sydney Council			
TELEPHONE BOX		DATE : August 2005			
TELEPHONE CILAR					

**DESIGN APPROVAL**

  
.....  
**ELECTRICAL DESIGN  
MANAGER**

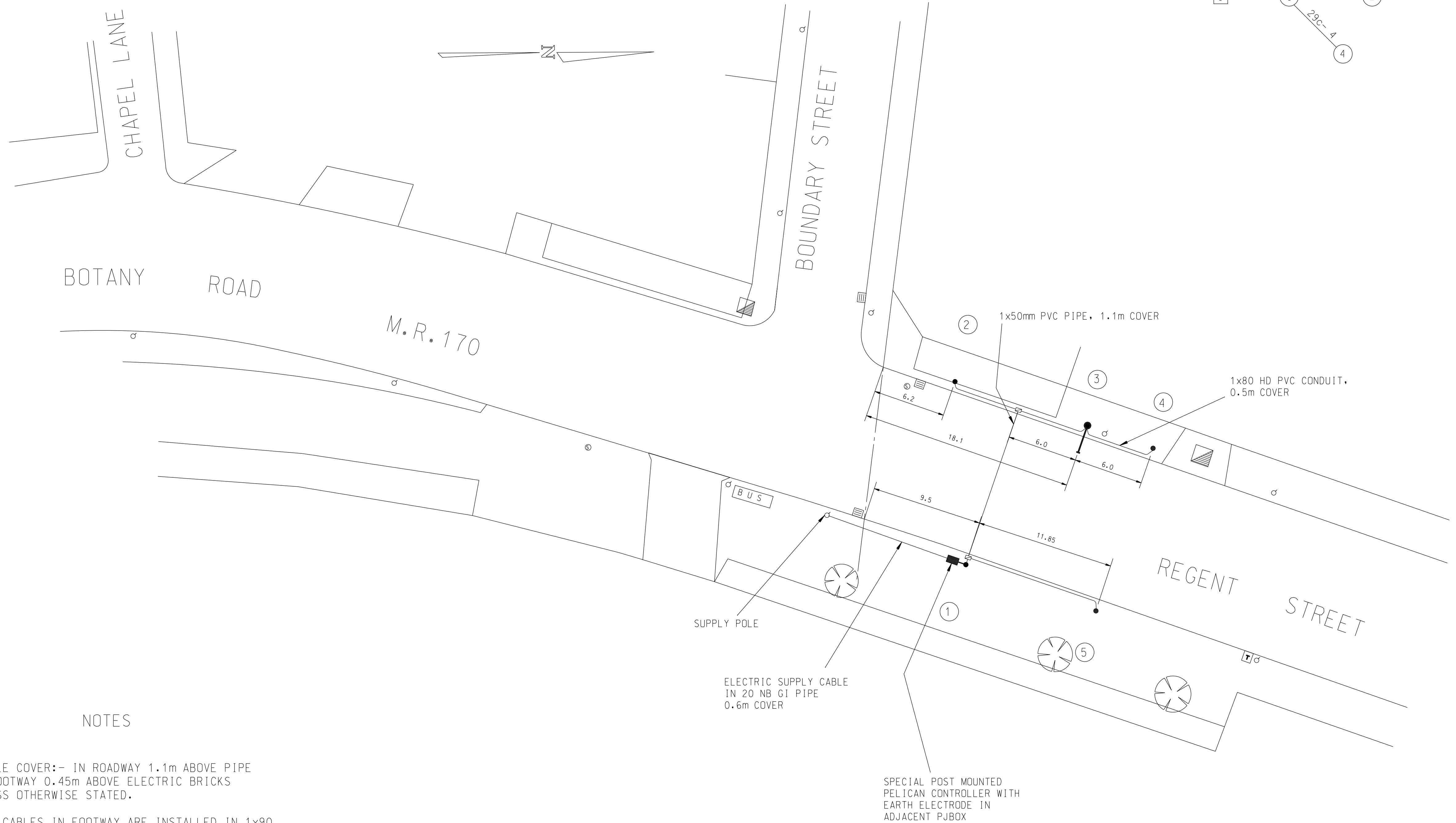
**DATE:** 24/02/2017

SYDNEY CITY COUNCIL AREA  
TRAFFIC SIGNALS AT  
REDFERN STREET AND GEORGE STREET,  
REDFERN

TCS No 1419

EXISTING <input checked="" type="checkbox"/>		PROPOSED <input type="checkbox"/>	
CADD FILE: VW1419_11A_INS.dgn			
SCALE  (1:200)			ISSUE  <b>A</b>
FILE 413 TS 254		SUPERSEDES SHEET/ISSUE 9A	
REGN. <b>7000.412.VV.1419</b>			SHEET <b>11</b>





NOTES

- 1. CABLE COVER:- IN ROADWAY 1.1m ABOVE PIPE  
IN FOOTWAY 0.45m ABOVE ELECTRIC BRICKS  
UNLESS OTHERWISE STATED.
- 2. ALL CABLES IN FOOTWAY ARE INSTALLED IN 1x90  
POLYTHENE PIPE UNLESS OTHERWISE STATED.

CABLE INSTALLATION

A ORIGINAL ISSUE "B" ISSUE:- WAF CABLE No.4 WAS 19 CORE- G.B. L.C. 21-09-04	REFERENCE PLANS			U.B.D. REF. MAP 3 04 I.S.G. E 318319..... CO-ORDS N 1248011.....	APPROVED <i>R.C. Bird</i> R.C. BIRD ELECTRICAL DESIGN MANAGER DATE..... 21-09-04	ROADS AND TRAFFIC AUTHORITY OF NSW CITY OF SOUTH SYDNEY M.R.170 BOTANY ROAD, REGENT STREET NORTH OF BOUNDARY STREET REDFERN	DOGS DRAWING FILE : ARCHIVE LOCATION :		
	Specification SI/TCS/7			CORRIGAN ELECTRICS DESIGNED L. CLAY 21-09-04 PASSED RECOMMENDED			CENTRAL REGION		SHEET 5
	Det. Sched. Exp. VD018-10	SCALE 5 0 5 10							
	SSG Dis. Seq. VD018-8	FILE 413 TS 152	SUPERSEDES SHEET 2						
	DESIGN LAYOUT VV2751_4	REGN. 0170.413.VV.2751							
CABLE CHART VD006-16									



RECOMMENDED  
PASSED  
DESIGNED  
PW KIRBY P/L  
CO-ORDS N 12.47825  
I.S.G. E 318325  
MAP 10, A-4  
I.B.D. REF.

ROADS AND TRAFFIC AUTHORITY OF NSW  
CITY OF SOUTH SYDNEY  
M.R. 170 BOTANY ROAD,  
S.R. 2005 HENDERSON ROAD  
AND BAGLAN STREET

ARCHIVE LOCATION :		SYDNEY REGION		SCALE		FILE 413 TS 129		SUPERSIDES		SHEET 7		A		ISSUE	
				0 5 10											

1. CABLE COVER: IN ROADWAY 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL CABLE IN FOOTWAYS ARE INSTALLED IN 1x80 H.D. P.V.C. CONDUIT UNLESS OTHERWISE STATED.
3. ALL ROADCROSSING PIPES ARE 1 x 80 NB GI PIPE UNLESS OTHERWISE STATED.

NOTES

2005.413.VV.0055

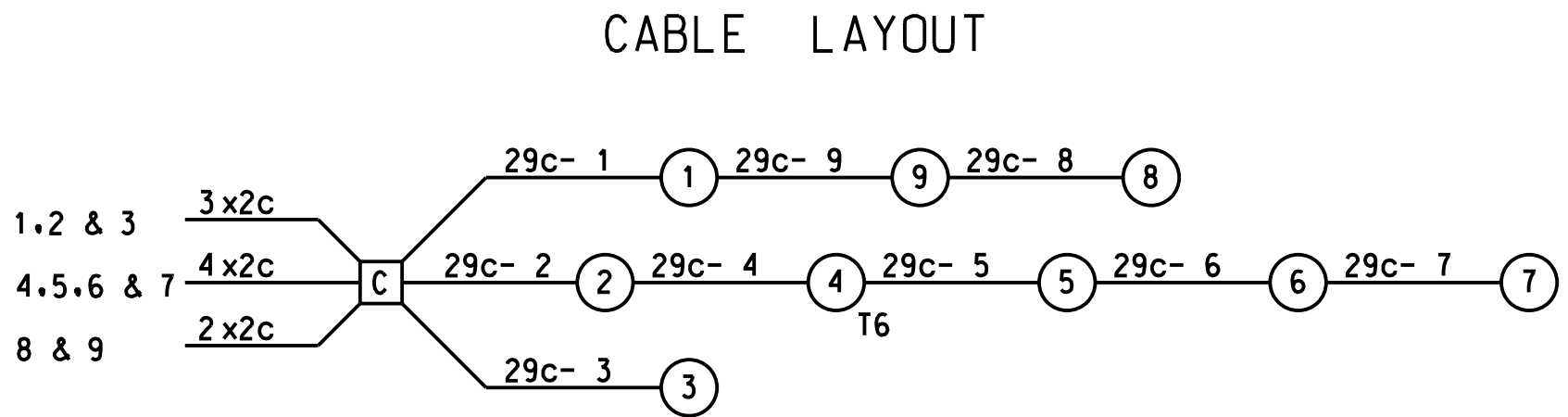
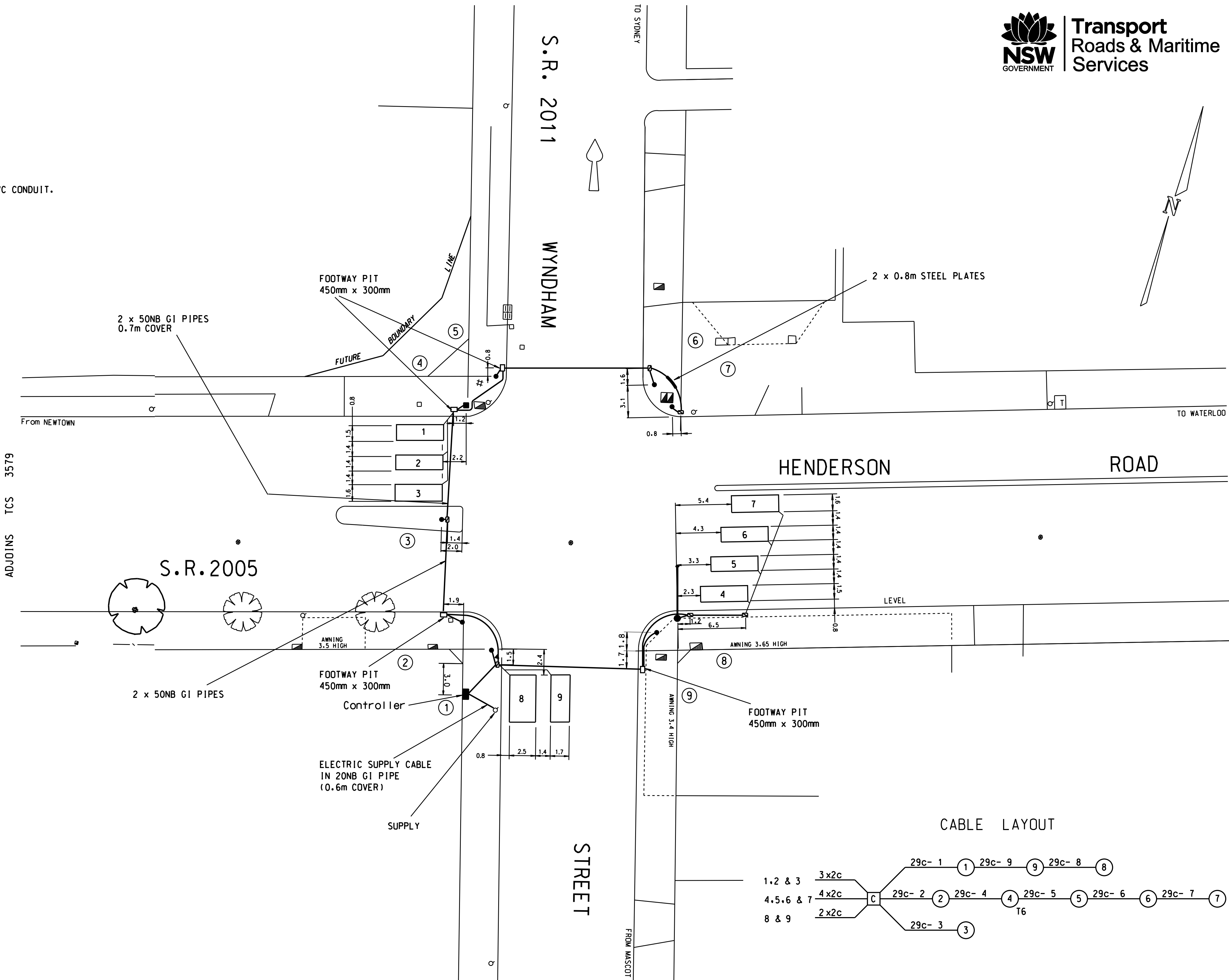
DRAWN BY CADD  
DO NOT AMEND MANUALLY

DATE IN SERVICE : 18/11/46



NOTES

- 1. CABLE COVER: IN ROADWAYS 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
- 2. ALL CABLES IN FOOTWAYS ARE INSTALLED IN 1 X 80 HD PVC CONDUIT UNLESS OTHERWISE STATED.
- 3. ALL ROADCROSSING PIPES ARE 1 X 50NB (63 SIZE) HD PVC CONDUIT. UNLESS OTHERWISE STATED



A ORIGINAL ISSUE

A ISSUE J1 SC 585  
PLAN REDRAWN TO SUIT DESIGN  
R.W.A C.L.Z. 19/12/2002

B ISSUE 12-5-2014  
W.A.L. DET. ADDED, DETS ALTERED,  
IN L.C.

PUBLIC UTILITY LEGEND

HYDRANT	□	SYMBOLS/ABBVS.	VD003-6
STOP VALVE	▲	STD. POSIT.	VD001-5
GAS VALVE	≡	DET. SCHED. EXP.	VD018-10
SEWER MANHOLE	⊗	PRES. DETECT.	VC005-17
TELECOM PIT	⊠	SSG DIS. SEQ.	VD018-9
ELECT. LIGHT POLE	⊙	DESIGN LAYOUT	SHEET 9E
POWER POLE	○	CABLE CHART	
STAY POLE	⊖		
TELEPHONE BOX	⊞	SURVEYOR	N/A
TELECOM PILLAR	⊙	DATE	N/A

REFERENCE PLANS

DESIGNED: R.W.A 19/12/02

CHECKED C.L.Z 12/02

C.L.Z. 12/02

C.L.Z. 12/02

RECOMMENDED

U.B.D. Ref. Map 15 A11

I.S.G. E: 318 342  
CO-ORDS N: 1 247 981

APPROVED

NAME R.C. BIRD

POSITION: ELECTRICAL DESIGN MANAGER

DATE 19/12/2002

Roads and Maritime Services

SOUTH SYDNEY COUNCIL AREA

TRAFFIC SIGNALS AT S.R.2005 HENDERSON ROAD AND S.R.2011 WYNDHAM STREET ALEXANDRIA

DESIGN LAYOUT

TCS No 0055

DESIGN OFFICE PARRAMATTA - PROJECT DESIGN SERVICES

CADD FILE: VV0055.13B\_INS.dgn

SCALE 5 0 (1:200) 5 10

FILE 413 TS 124

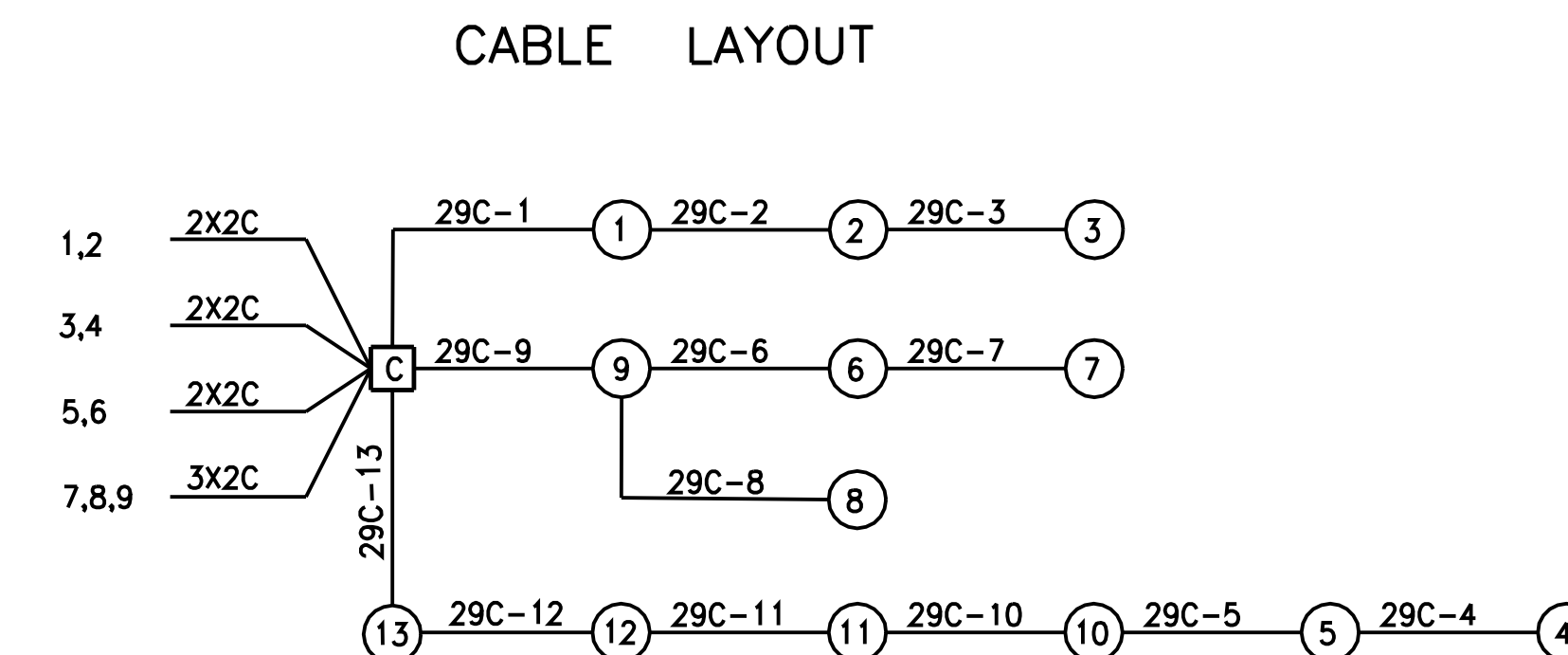
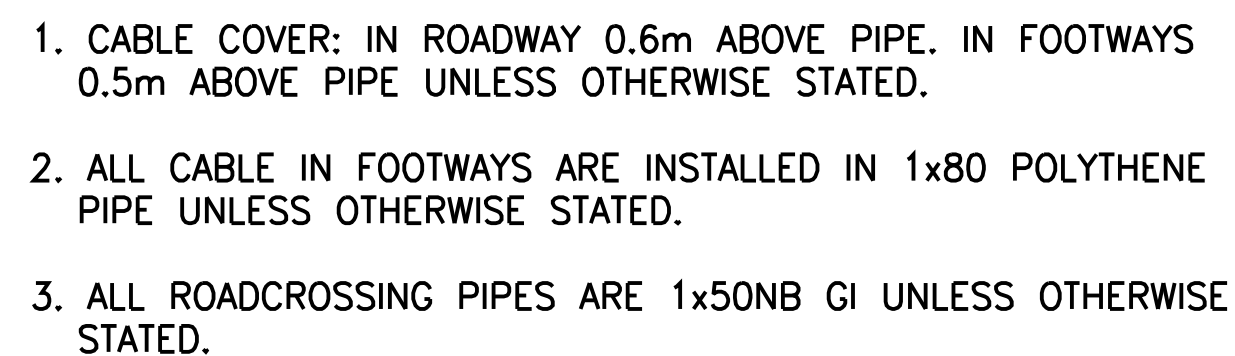

REGN. 2005.413.VV.0055

SHEET 13

ISSUE B

SUPERSEDES SHEET/ISSUE 9/D

2011.413.W.0178



<div>A ORIGINAL ISSUE</div> <div>1<sup>ST</sup> ISSUE: DRAWING COMPLETE.</div> <div>2<sup>ND</sup> ISSUE: KERB LINE &amp; CENTRAL MEDIAN ISLAND IN LAWSON SO ALTERED, POST 4 WAS T2.</div> <div>CON - 11/03</div>	<div>PUBLIC UTILITY LEGEND</div> <div><div>HYDRANT</div><div>STOP VALVE</div><div>GAS VALVE</div><div>SEWER MANHOLE</div><div>TELECOM PIT</div><div>ELECT LIGHT POLE</div><div>POWER POLE</div><div>STAY POLE</div><div>TELEPHONE BOX</div><div>TELECOM PILLAR</div></div> <div><div><input type="checkbox"/></div><div><input checked="" type="checkbox"/></div><div><input checked="" type="checkbox"/></div><div><input checked="" type="checkbox"/></div><div><input checked="" type="checkbox"/></div><div><input checked="" type="checkbox"/></div><div><input checked="" type="checkbox"/></div><div><input checked="" type="checkbox"/></div><div><input checked="" type="checkbox"/></div><div><input checked="" type="checkbox"/></div></div> <div><div>SYMBOLS/ABBS.</div><div>STD POSIT</div><div>DET SCHED EXP</div><div>PRES. DETECT</div><div>SSG DIS. SEQ.</div><div>DESIGN LAYOUT</div><div>CABLE CHART</div><div></div><div>SURVEYOR : COUNCIL</div><div>DATE : '98</div></div> <div><div>VD003-6</div><div>VD001-5</div><div>VD018-10</div><div>VC005-17</div><div>VD018-8</div><div>SHT 19</div><div>SHT 21</div><div></div><div></div></div>		<div>REFERENCE PLANS</div> <div>U.B.D. Ref. MAP 15 87</div> <div>1:500 E: 310 415</div> <div>CD-ORDS N: 1 248 358</div>	<div>DESIGNED CORRIAN</div> <div>CHECKED CLZ</div> <div>L. EERLAND</div> <div>SITE CHECKED</div> <div>CLZ</div> <div>RECOMMENDED</div>	<div>APPROVED</div> <div><div><div></div></div><div>R.C. BIRD</div><div>ELECTRICAL DESIGN MANAGER</div></div> <div>25/07/00</div> <div>DATE</div>	<div>Roads and Traffic Authority,N.S.W</div> <div>SOUTH SYDNEY COUNCIL</div> <div>GIBBONS STREET (SR 2011)</div> <div>LAWSON STREET AND LAWSON SQUARE</div> <div>REDFERN</div> <div>CABLE INSTALLATION</div> <div>TCS No 178</div>	<div>DESIGN OFFICE – SYDNEY TECHNICAL SERVICES</div> <div>CADD FILE: W0178_20B_INS.DGN</div> <div>SCALE <div><div>5</div><div>0</div><div>5</div><div>10</div></div> (1:200)</div> <div>FILE 413 TS 125</div> <div>SUPERSEDES SHEET/ISSUE 17D</div> <div>REGN. 2011.413.VV.0178</div>	<div>ISSUE</div> <div>B</div> <div>SHEET</div> <div>20</div>
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Transport Sydney Trains  
477 Pitt Street  
Sydney, NSW, 2000

**To:**

Arcadis - Mr David Huang  
141 Walker Street  
North Sydney

NSW

2060

Enquiry Details	
Utility ID	30205 - Central
Sequence Number	74320642
Job Number	14724930
Enquiry Date	09/08/2018 11:55
Response	<b>AFFECTED</b>
Address	13-23 Gibbons Street Redfern
Location in Road	CarriageWay, Footpath, Nature Strip
Activity	Mechanical Excavation

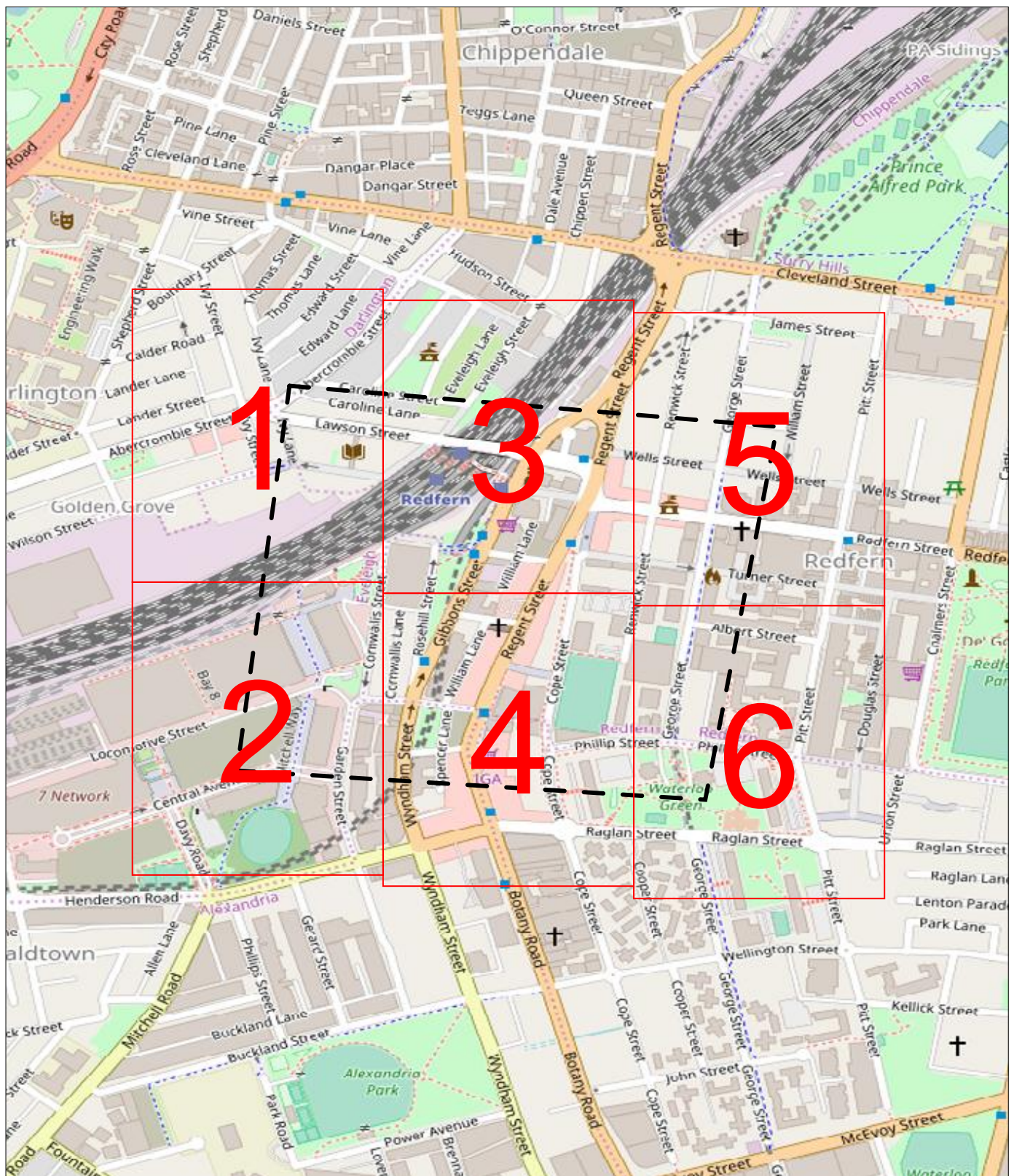
Enquirer Details			
Customer ID	1687345		
Contact	Mr David Huang		
Company	Arcadis		
Email	david.huang@arcadis.com		
Phone	0289079261	Mobile	Not Supplied



# Overview Map

Sequence No: 74320642

13-23 Gibbons Street Redfern



The precision of the location of the services on this plan varies depending on the source and method of capture. This plan should be used as a guide only. This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor.



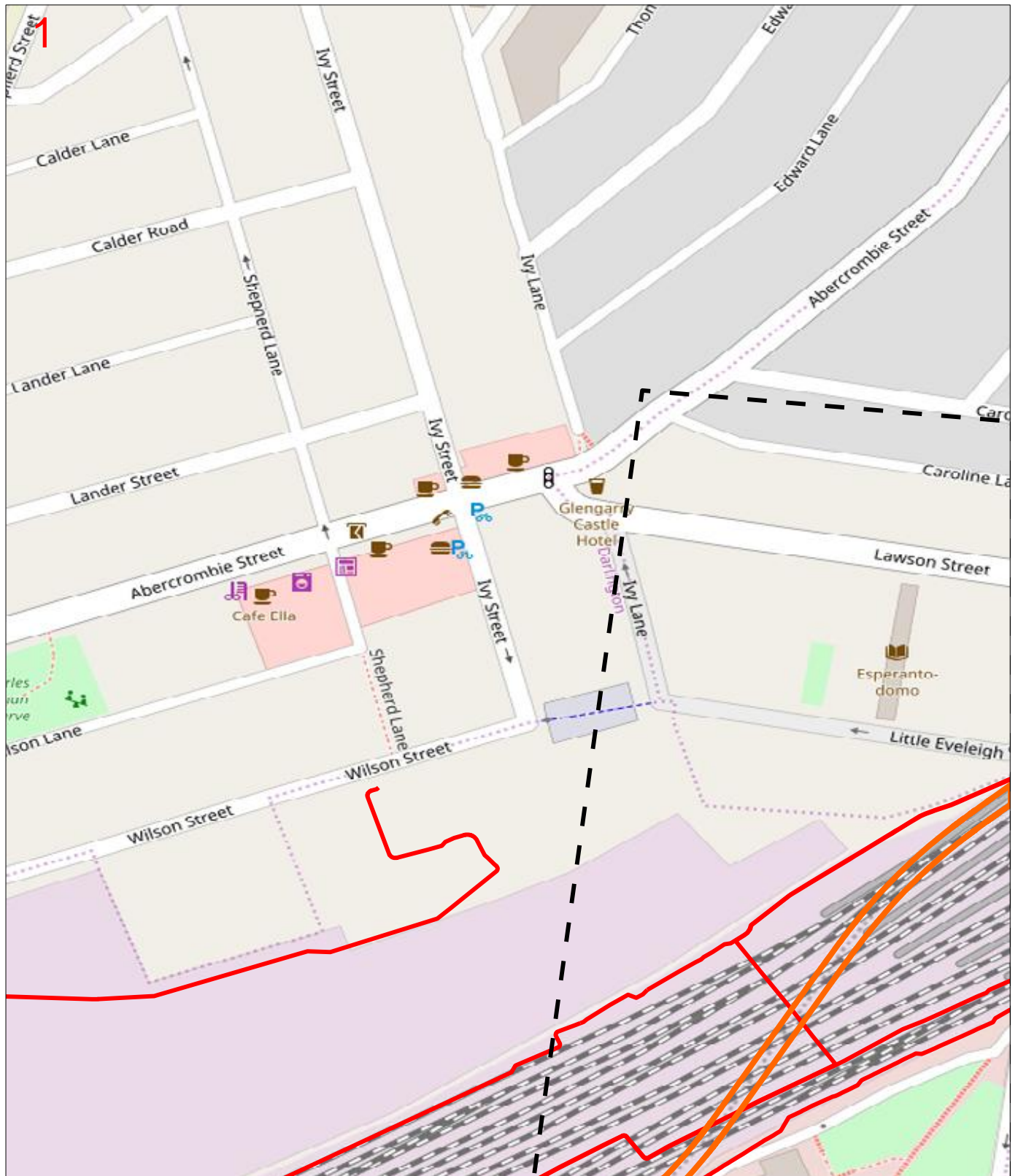
## LEGEND:

1

Detail Map

Affected DBYD  
Work Area





Images sourced from Open StreetMaps

**LEGEND:**

Affected DBYD Work Area

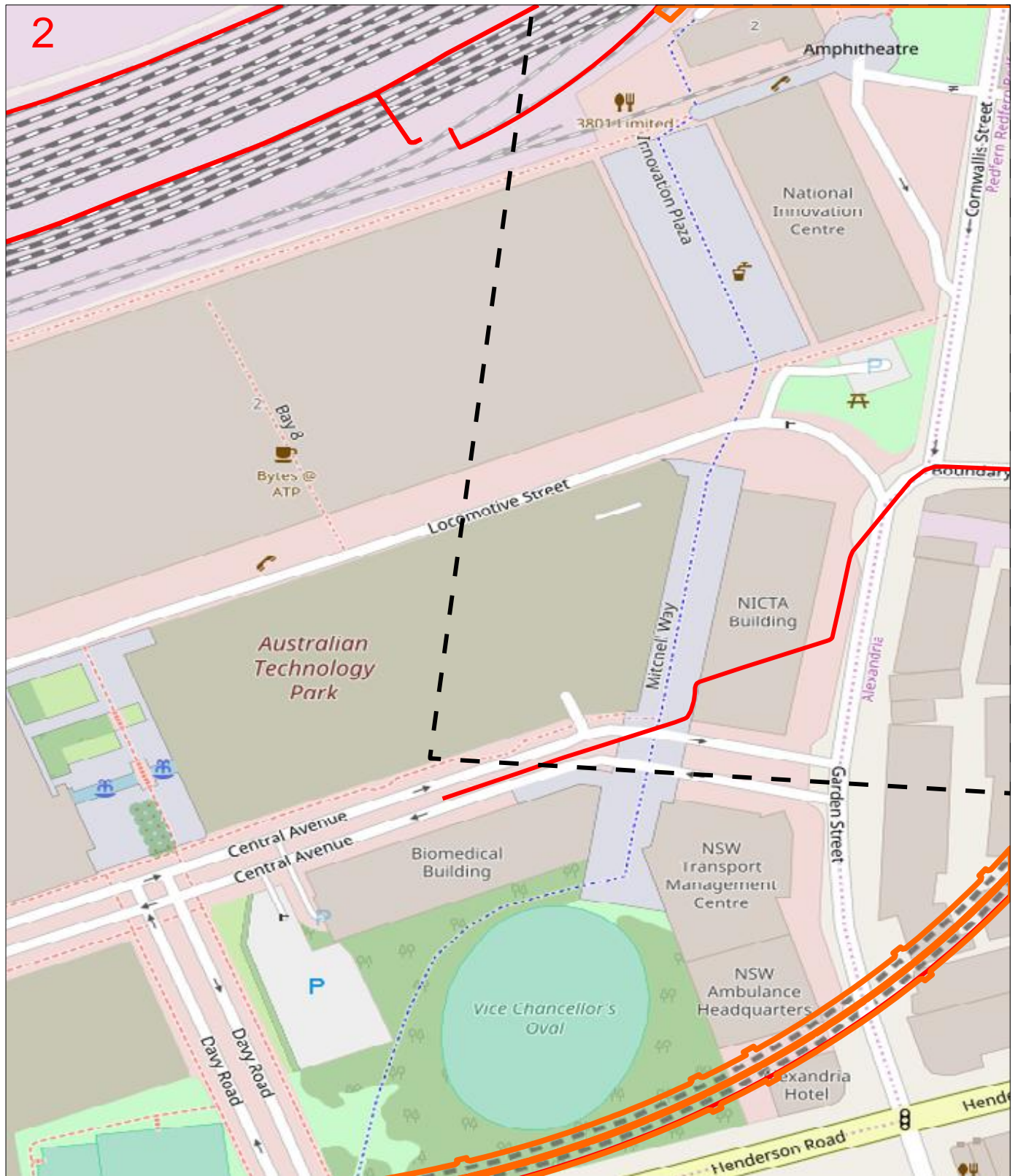


Tunnel

HV Cable

Communications

The precision of the location of the services on this plan varies depending on the source and method of capture. This plan should be used as a guide only. This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor



Images sourced from Open StreetMaps

**LEGEND:**

Affected DBYD Work Area

HV Cable



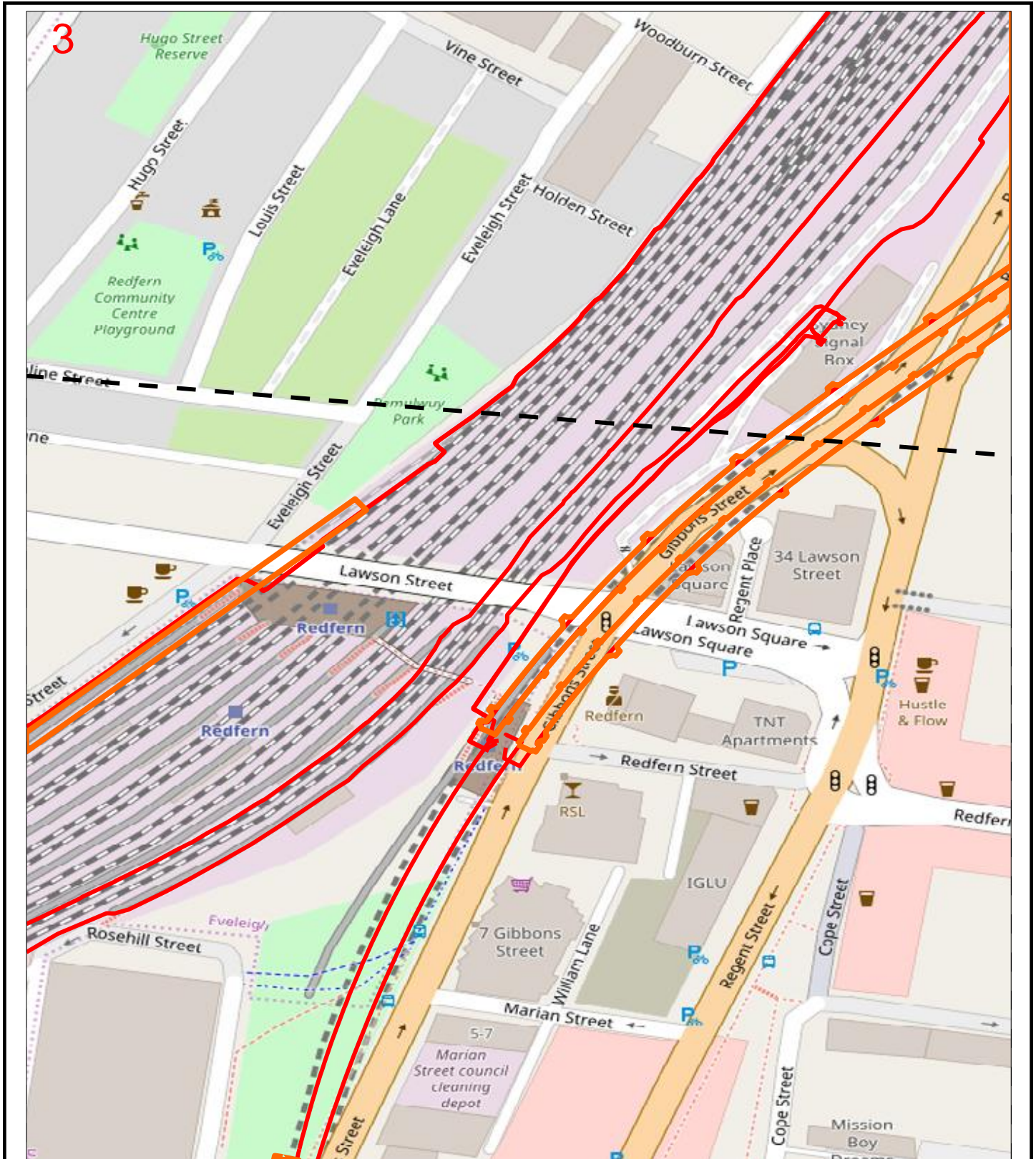
Tunnel



Communications

The precision of the location of the services on this plan varies depending on the source and method of capture. This plan should be used as a guide only. This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor





Images sourced from Open StreetMaps

**LEGEND:**

Affected DBYD Work Area



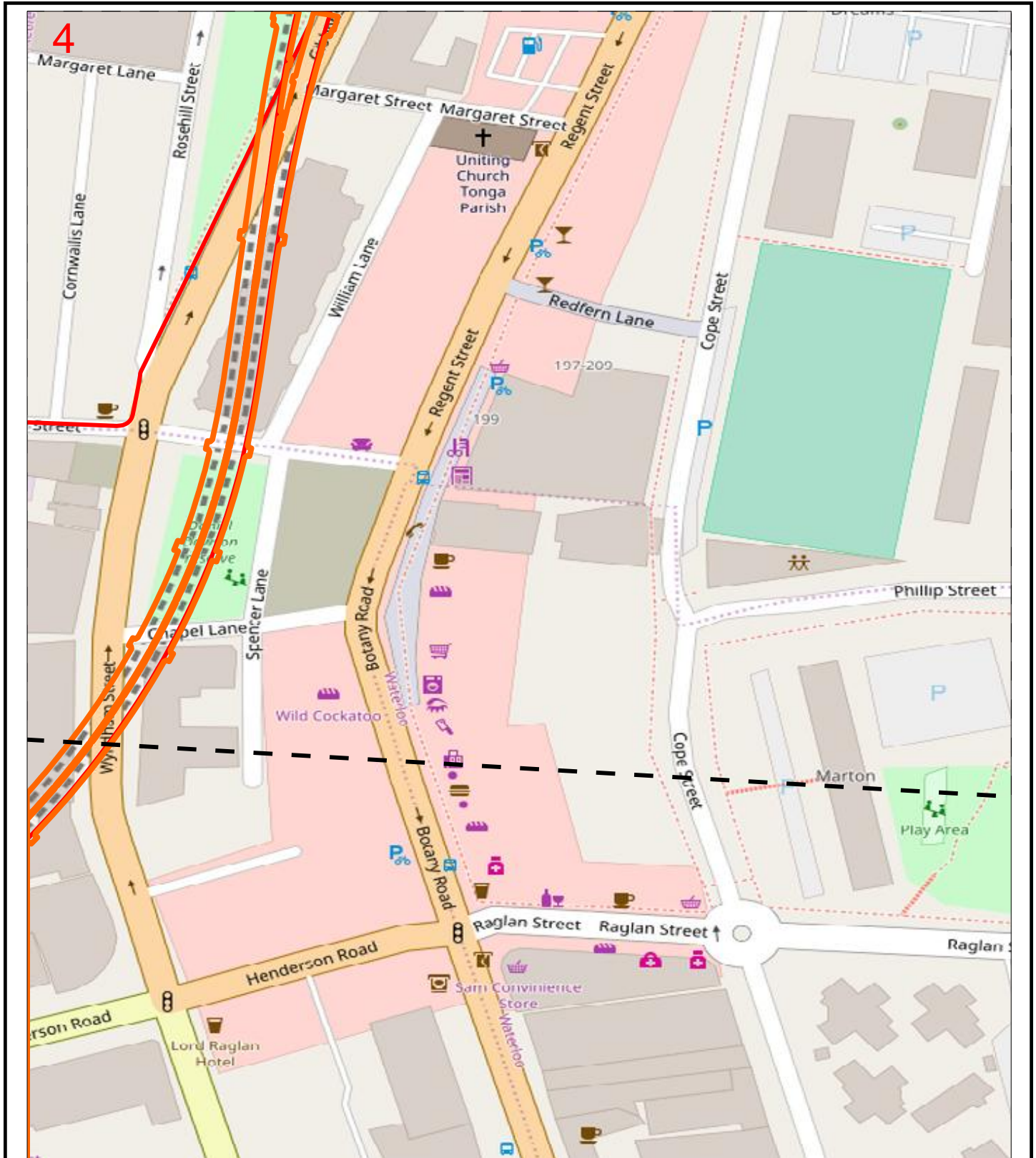
Tunnel

HV Cable

Communications

The precision of the location of the services on this plan varies depending on the source and method of capture. This plan should be used as a guide only. This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor





Images sourced from Open StreetMaps

#### LEGEND:



Affected DBYD Work Area

— HV Cable



Tunnel



Communications

The precision of the location of the services on this plan varies depending on the source and method of capture. This plan should be used as a guide only. This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor





Imagery sourced from Open StreetMaps

#### LEGEND:



Affected DBYD Work Area

— HV Cable

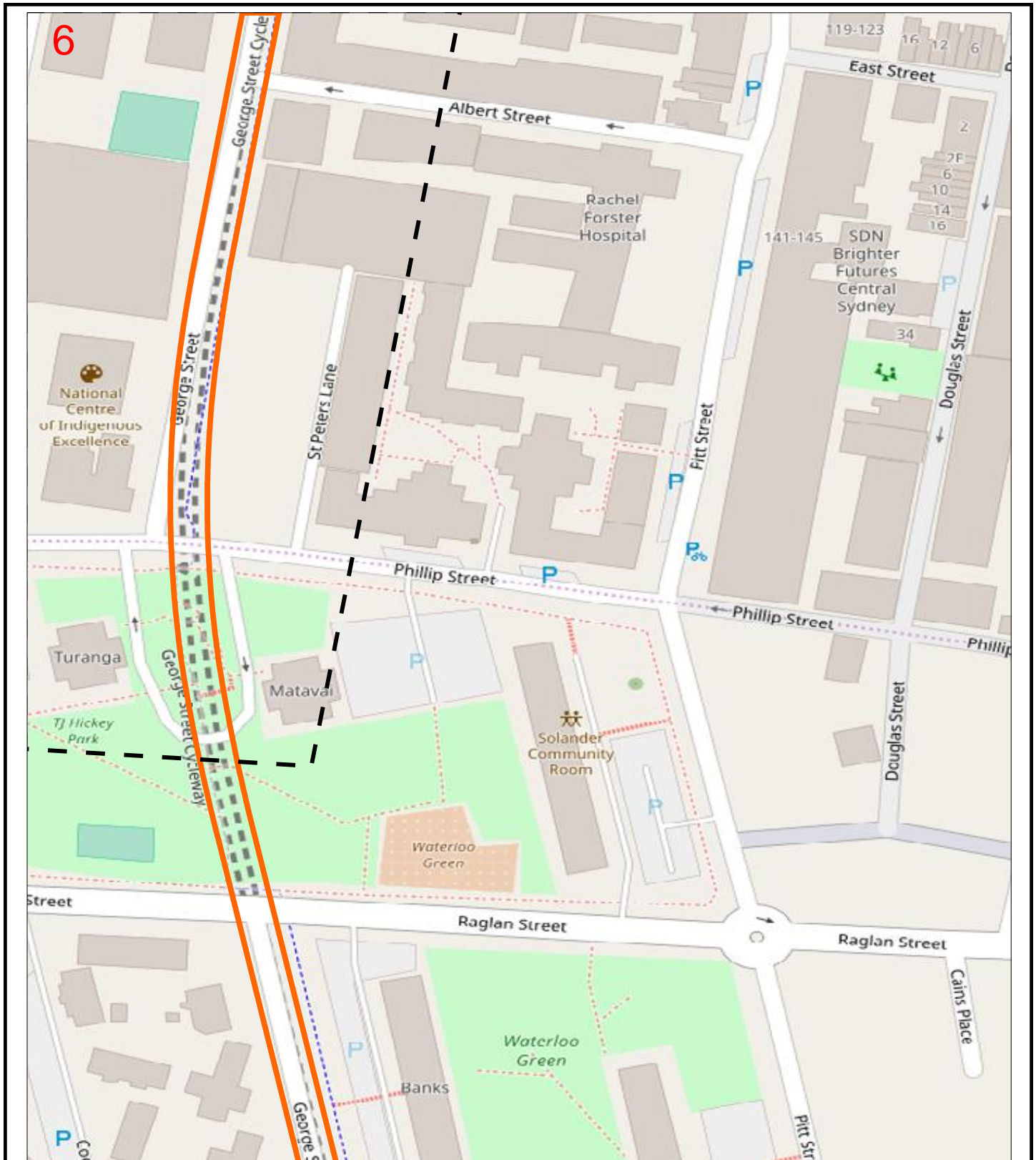


Tunnel



Communications

The precision of the location of the services on this plan varies depending on the source and method of capture. This plan should be used as a guide only. This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor



Images sourced from Open StreetMaps

#### LEGEND:



Affected DBYD Work Area



Tunnel

HV Cable

Communications

The precision of the location of the services on this plan varies depending on the source and method of capture. This plan should be used as a guide only. This plan shows only Sydney Trains electrical cables and tunnels located outside of the rail corridor



## Response Cover Letter

Date: 09/08/2018

**PIPE Networks**  
Level 17, 127 Creek St  
Brisbane QLD 4000  
Phone: +61 732339895  
Fax: +61 732339880

**To:**

Mr David Huang  
Arcadis - Mr David Huang  
141 Walker Street  
North Sydney  
NSW  
2060

- Customer ID: 1687345

Email: david.huang@arcadis.com  
Phone: 0289079261  
Fax: Not Supplied  
Mobile: Not Supplied

Dear Mr David Huang

The following is our response to your Dial Before You Dig enquiry.

**Assets Affected:** PIPE Networks, Telstra

**Sequence Number:** 74320646

**Location:** 13-23 Gibbons Street  
Redfern  
NSW  
2016

**Commencement Date:** 12/08/2018

Please read over the attached documents for more information about your enquiry.

**DISCLAIMER:** No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence.

**Note:** If the works fall in an area that adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**



Level 17, PIPE Networks House, 127 Creek Street, Brisbane 4000  
PH:(07) 3233 9895 FAX:(07) 3233 9880

Attention: Mr David Huang  
Fax: Not Supplied  
DBYD Enquiry Number: 74320646

Date: 09/08/2018

Location: 13-23 Gibbons Street  
Redfern  
NSW  
2016

### DBYD ENQUIRY RETURN:

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

The affected network **is contained in the PIPE Networks duct network** and can be found on **PIPE Networks** own network plans.

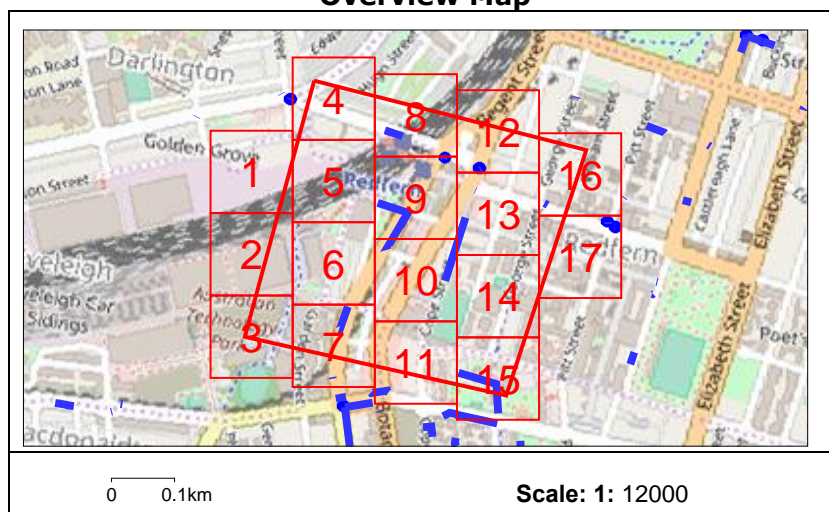
**This network is vital to our operations and as such, it is critical that no works commence within the area until a PIPE Networks representative has contacted you.**

A PIPE Networks representative will contact you within 24 hours to further discuss your intended works. If you do not hear from PIPE networks within 24hours please call us for assistance.

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.

### Overview Map



PIPE Networks (for information specific to this job only)

Ph (07) 3233 9895

Email: [dbyd@pipenetworks.com](mailto:dbyd@pipenetworks.com)

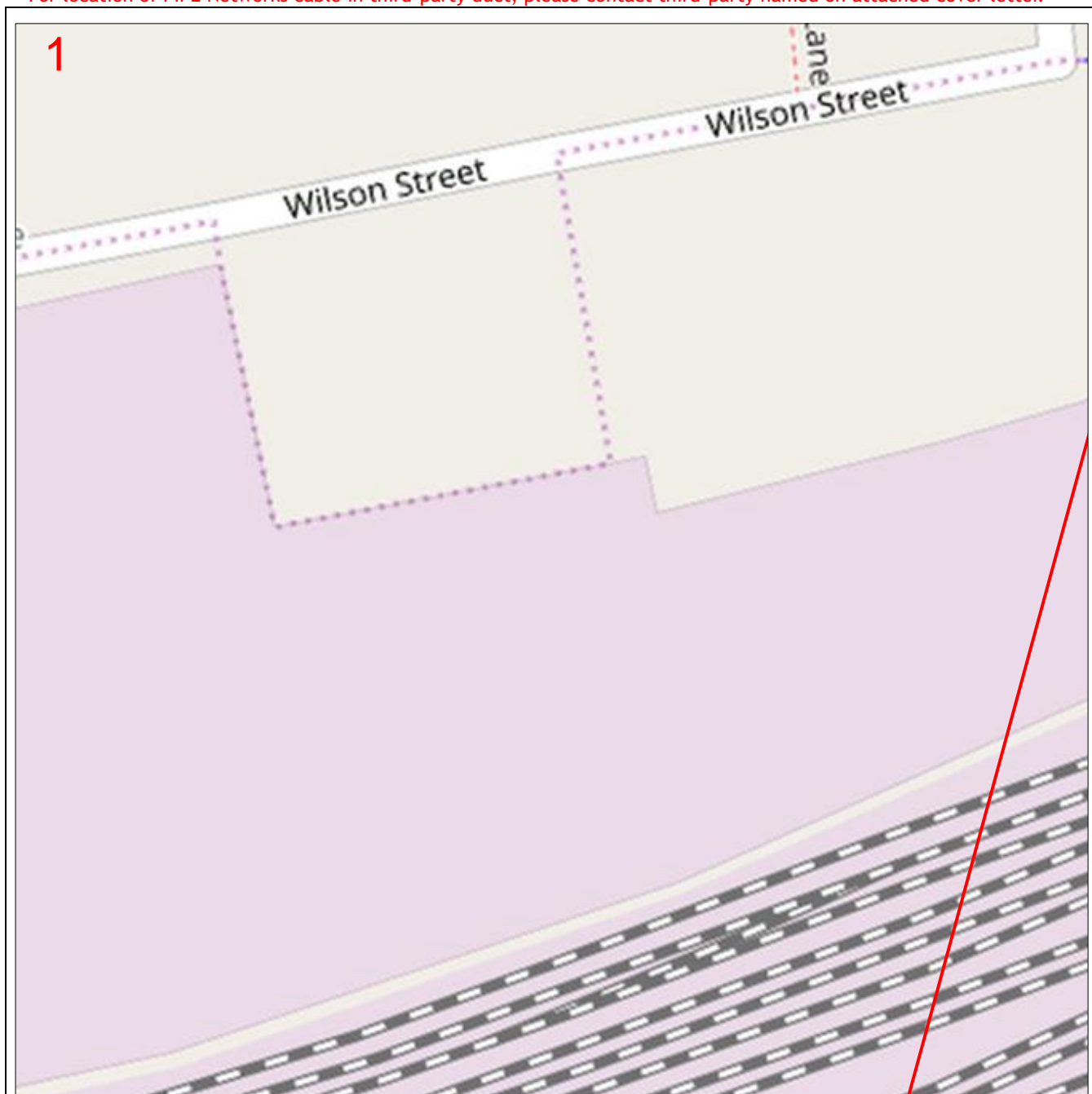
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Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 1

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area

Asset

Line



Manhole



Area



Duct

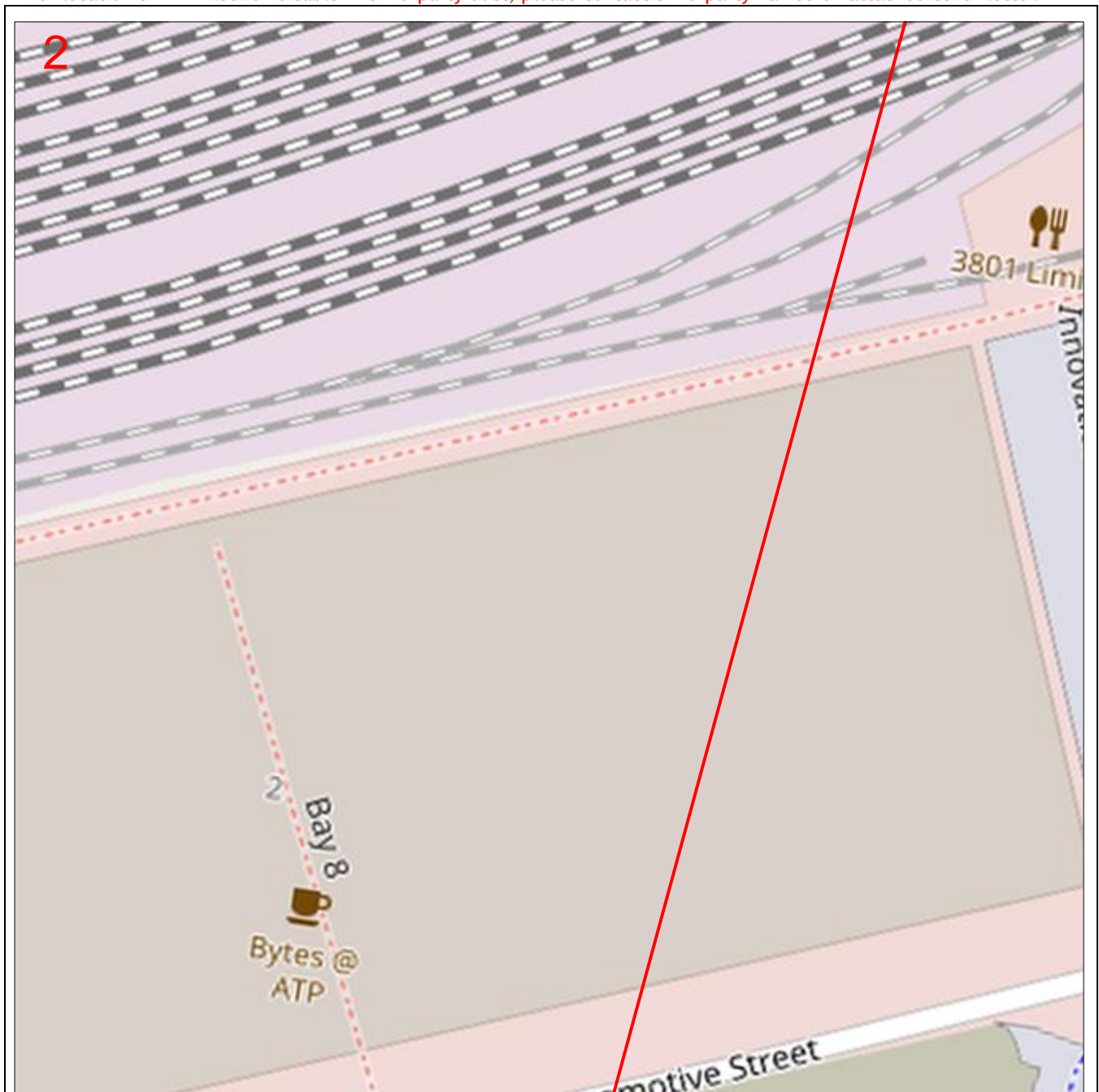


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For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 2

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area Asset

Line

Area

Manhole

Duct

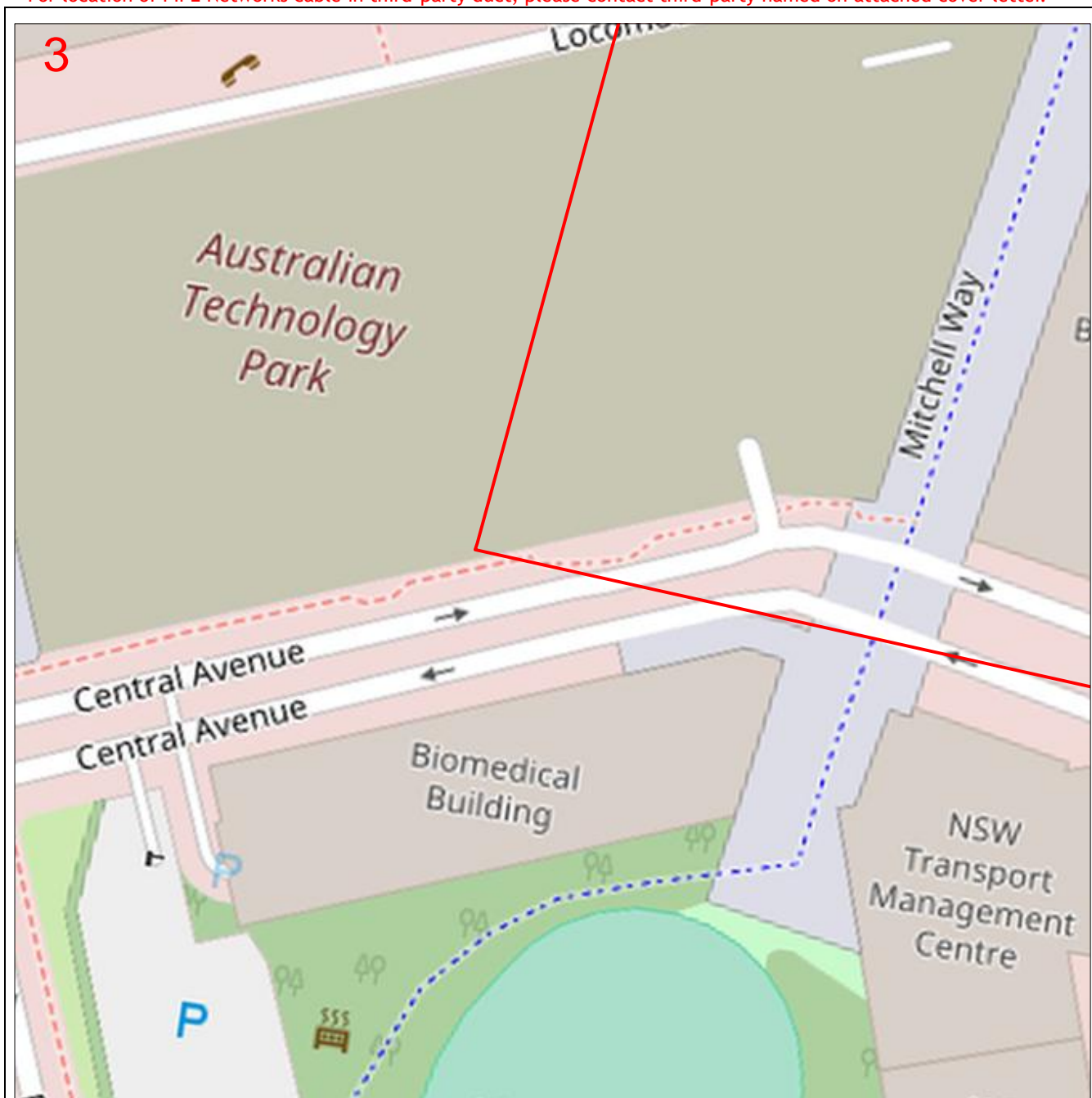


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**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 3

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area

Asset

Line

Manhole

Area

Duct

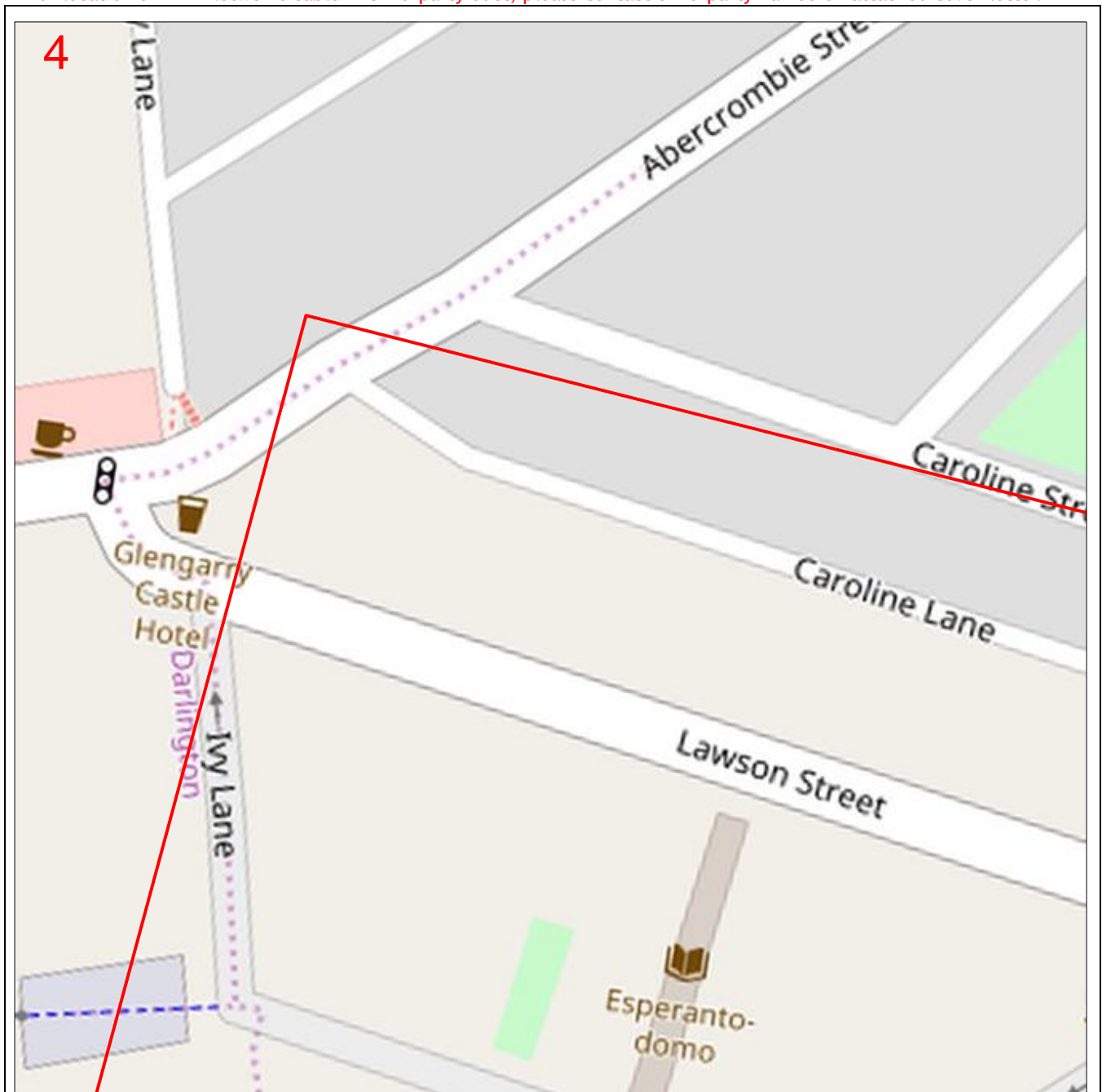


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Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 4

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area

Asset

Line

Manhole

Area

Duct



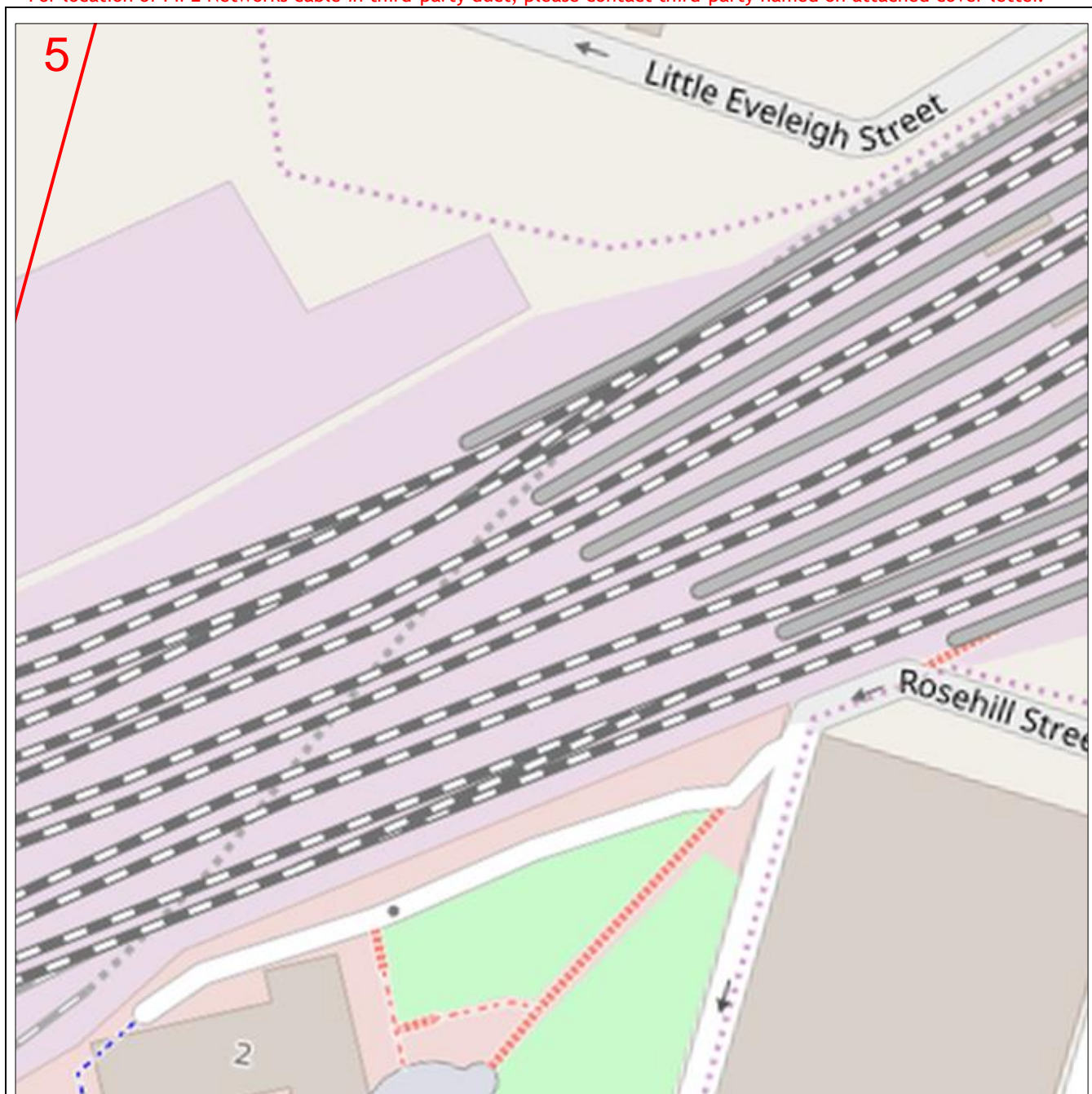
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**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**



Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 5

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area

Asset

Line



Manhole



Area



Duct

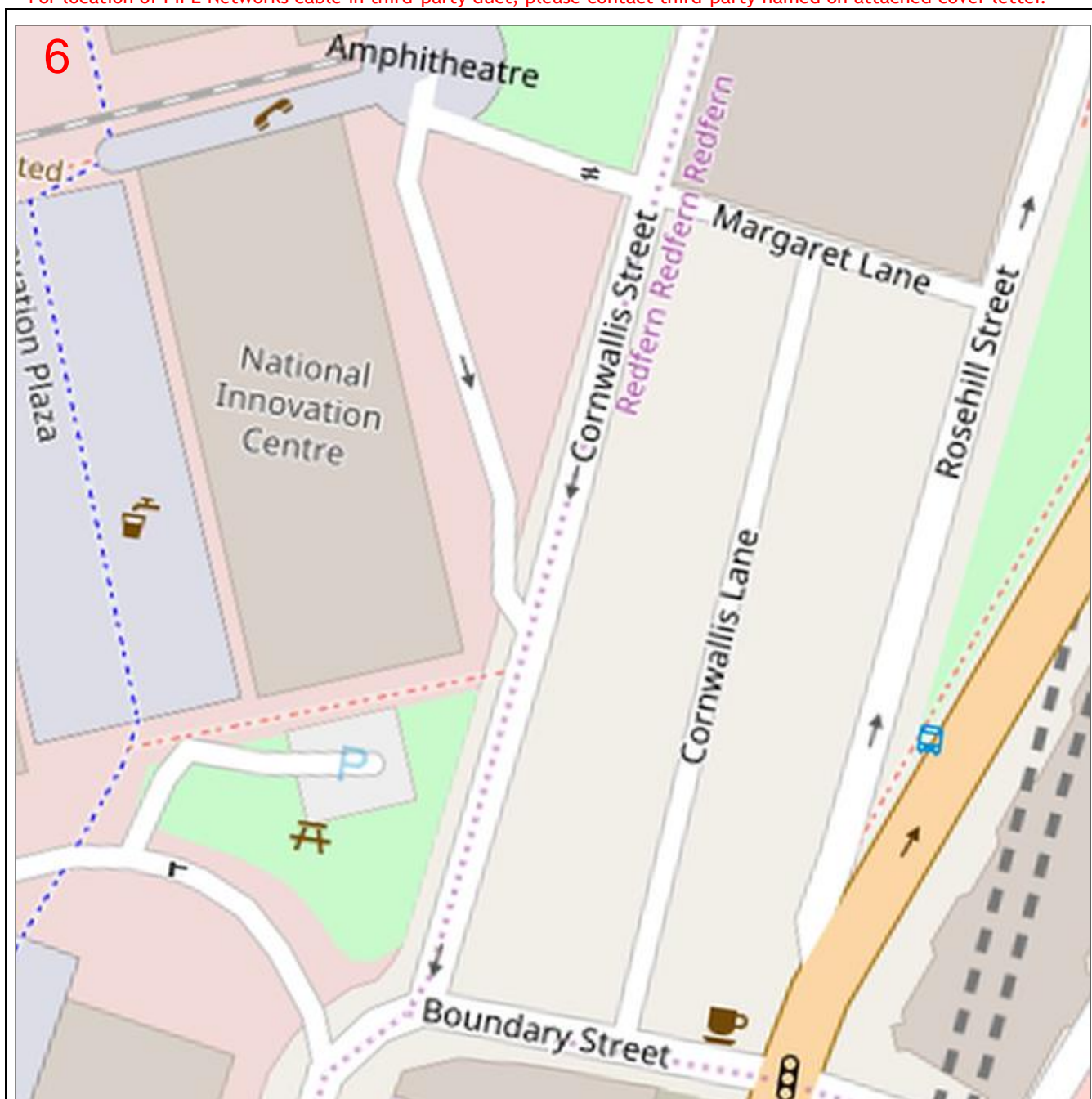


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**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 6

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area Asset

Line

Area

Manhole

Duct

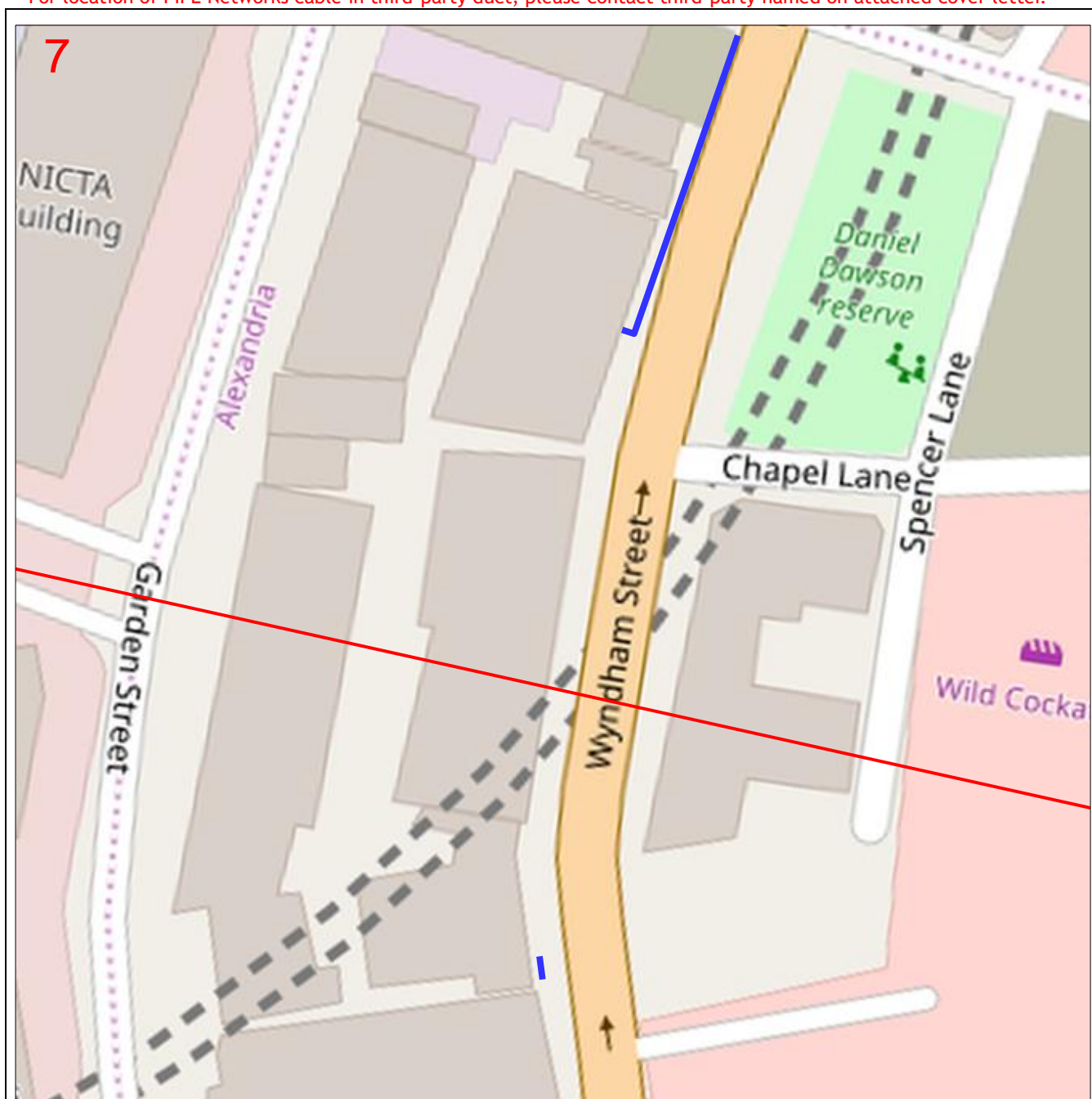


**DISCLAIMER:** No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence. © 2013 PIPE Networks Ltd.

**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 7

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area

Asset

Line

Manhole

Area

Duct



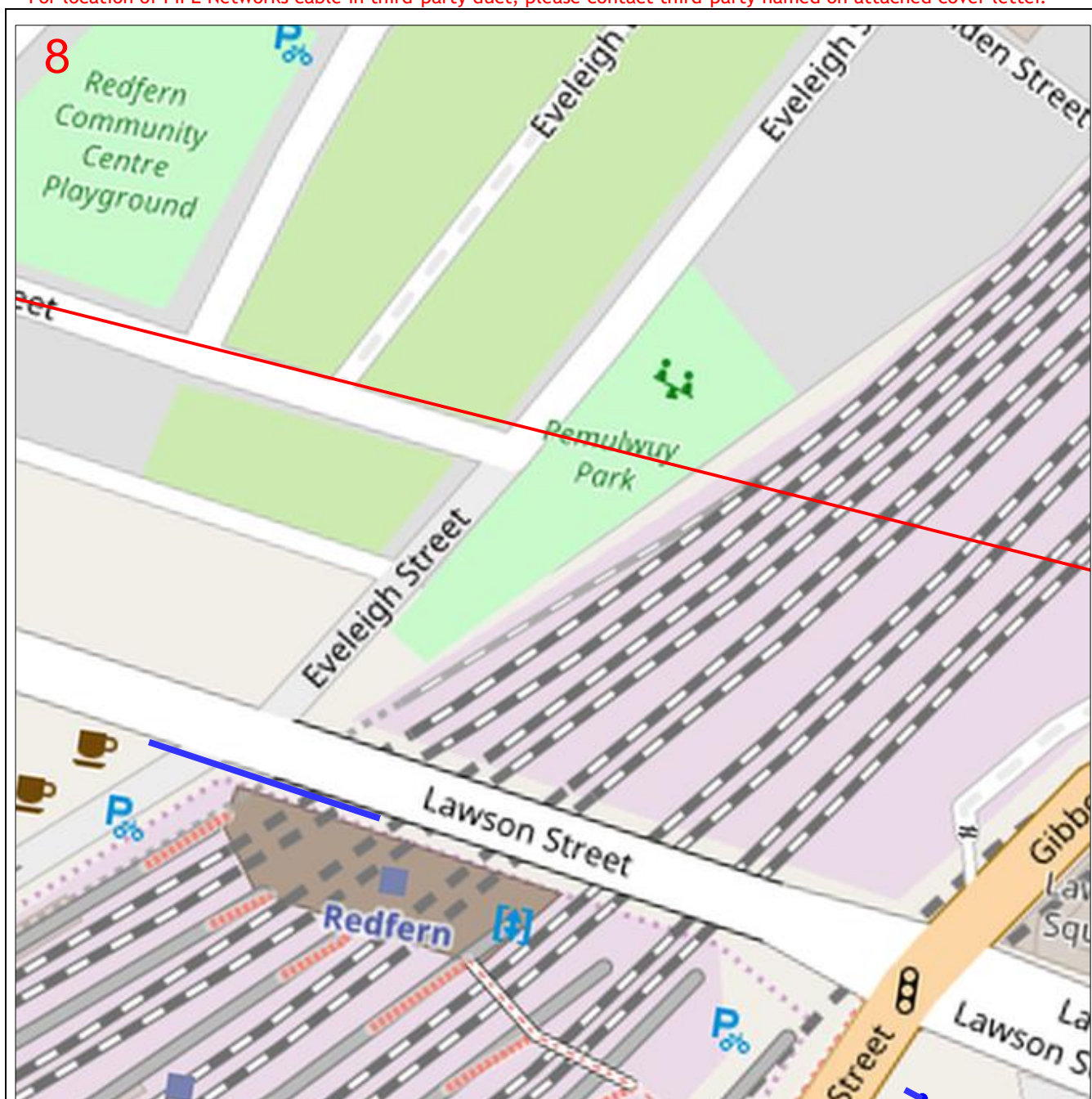
**DISCLAIMER:** No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence. © 2013 PIPE Networks Ltd.

**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**



Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 8

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area Asset

Line

Area

Manhole

Duct



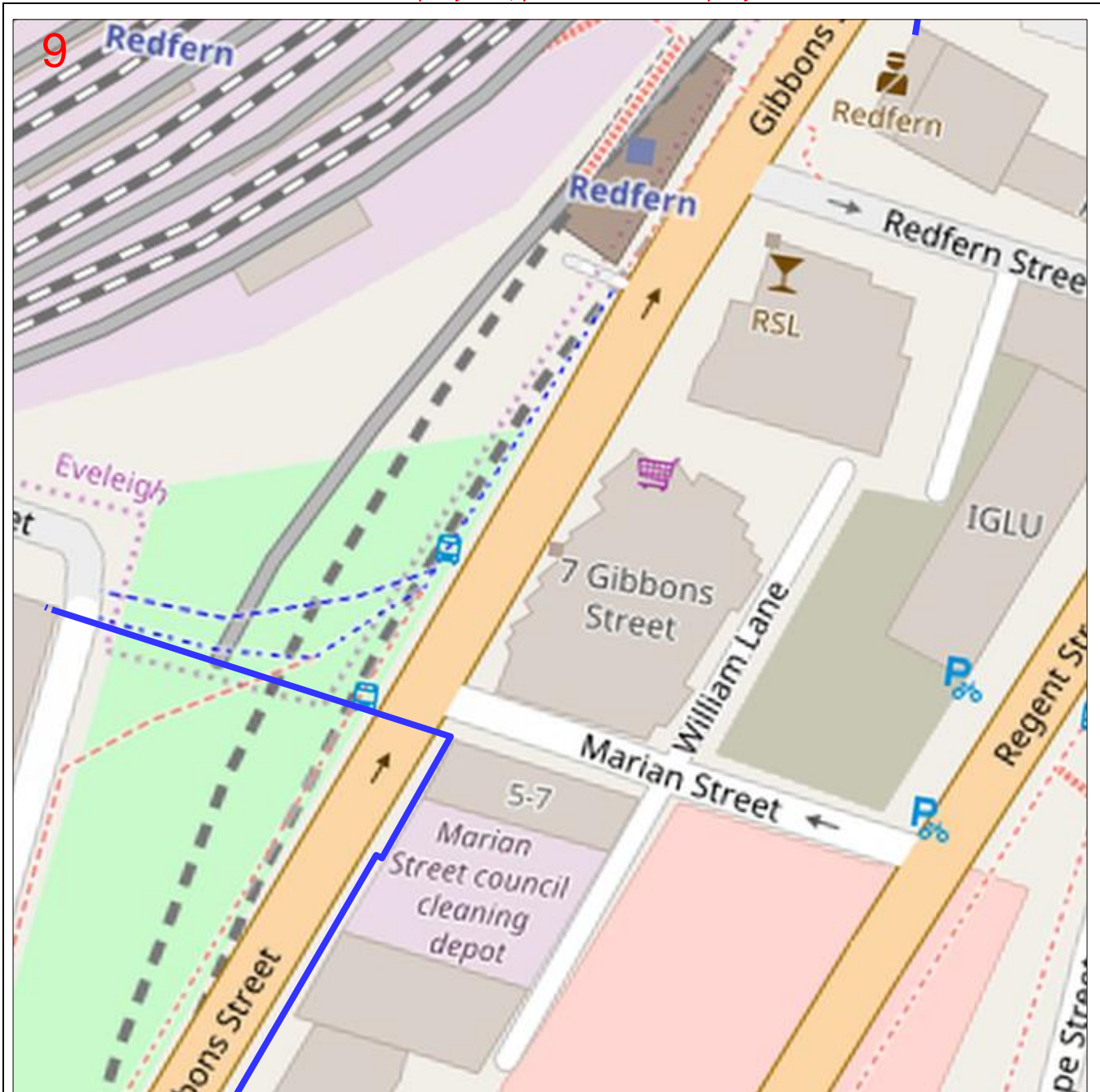
**DISCLAIMER:** No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence. © 2013 PIPE Networks Ltd.

**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**



Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 9

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area Asset

Line

Area

Manhole

Duct

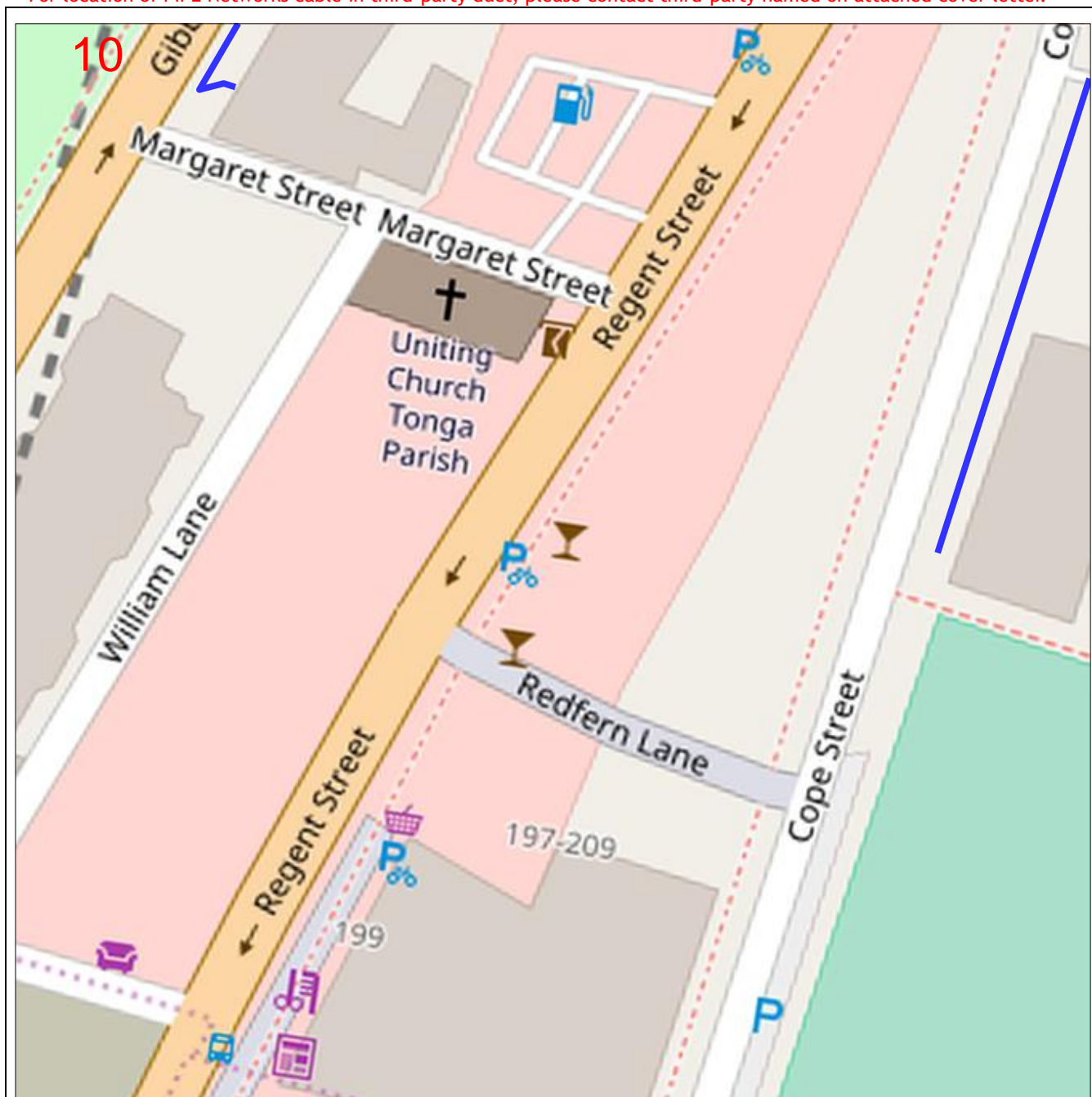


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**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 10

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area

Asset

Line

Manhole

Area

Duct

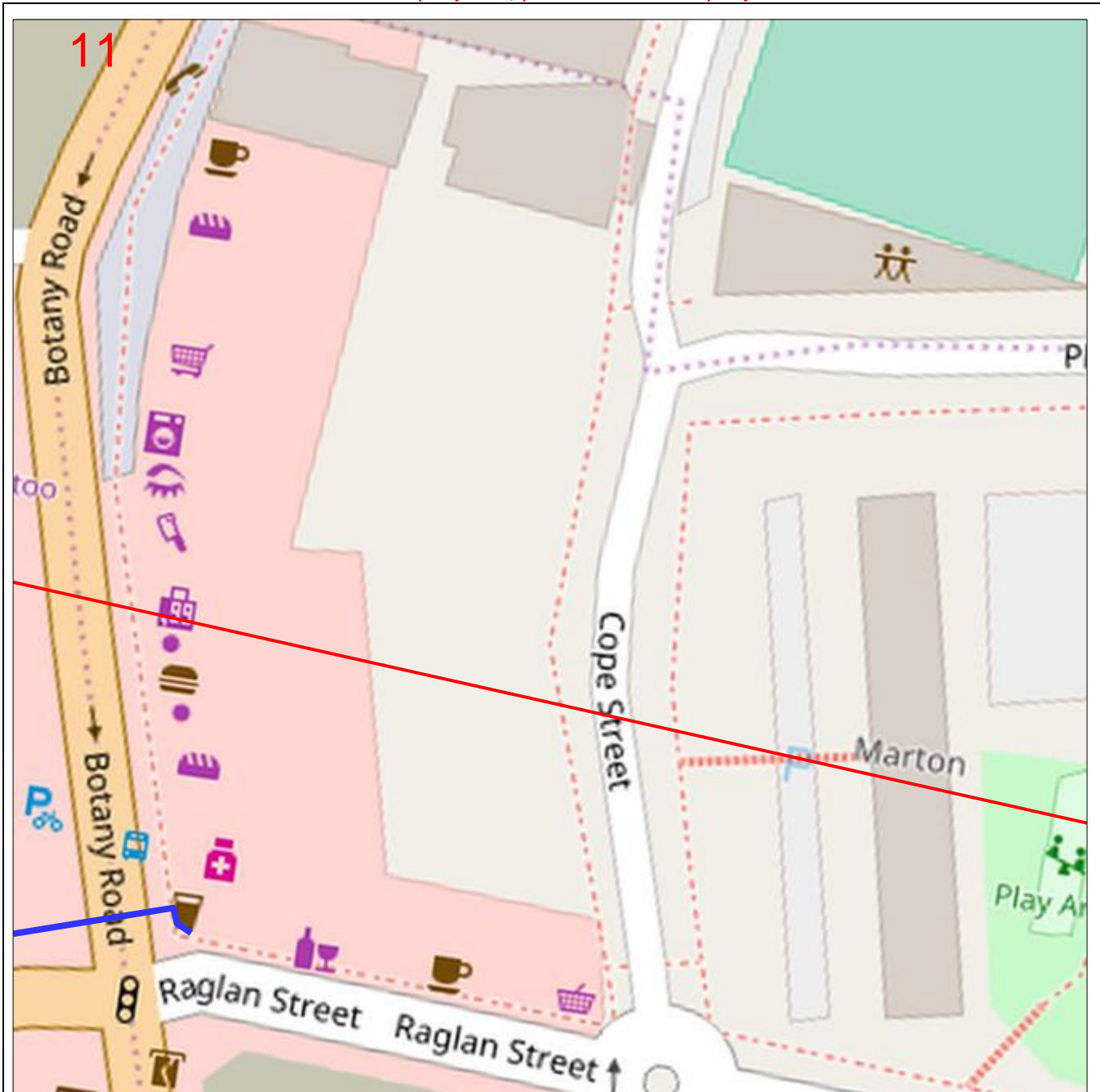


**DISCLAIMER:** No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence. © 2013 PIPE Networks Ltd.

**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 11

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area Asset

Line

Area

Manhole

Duct



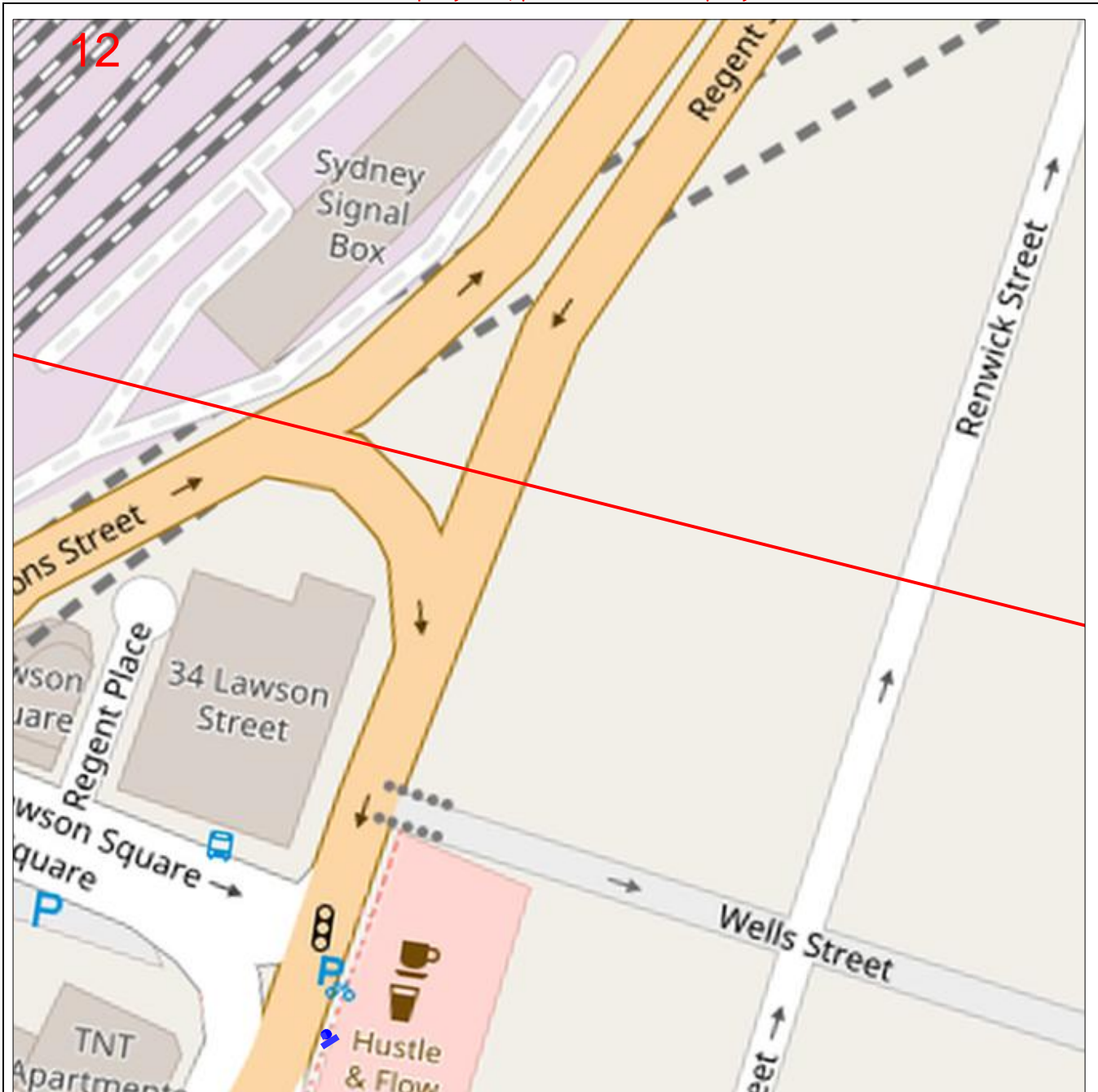
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**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**



Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 12

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area

Asset

Line



Manhole



Area



Duct



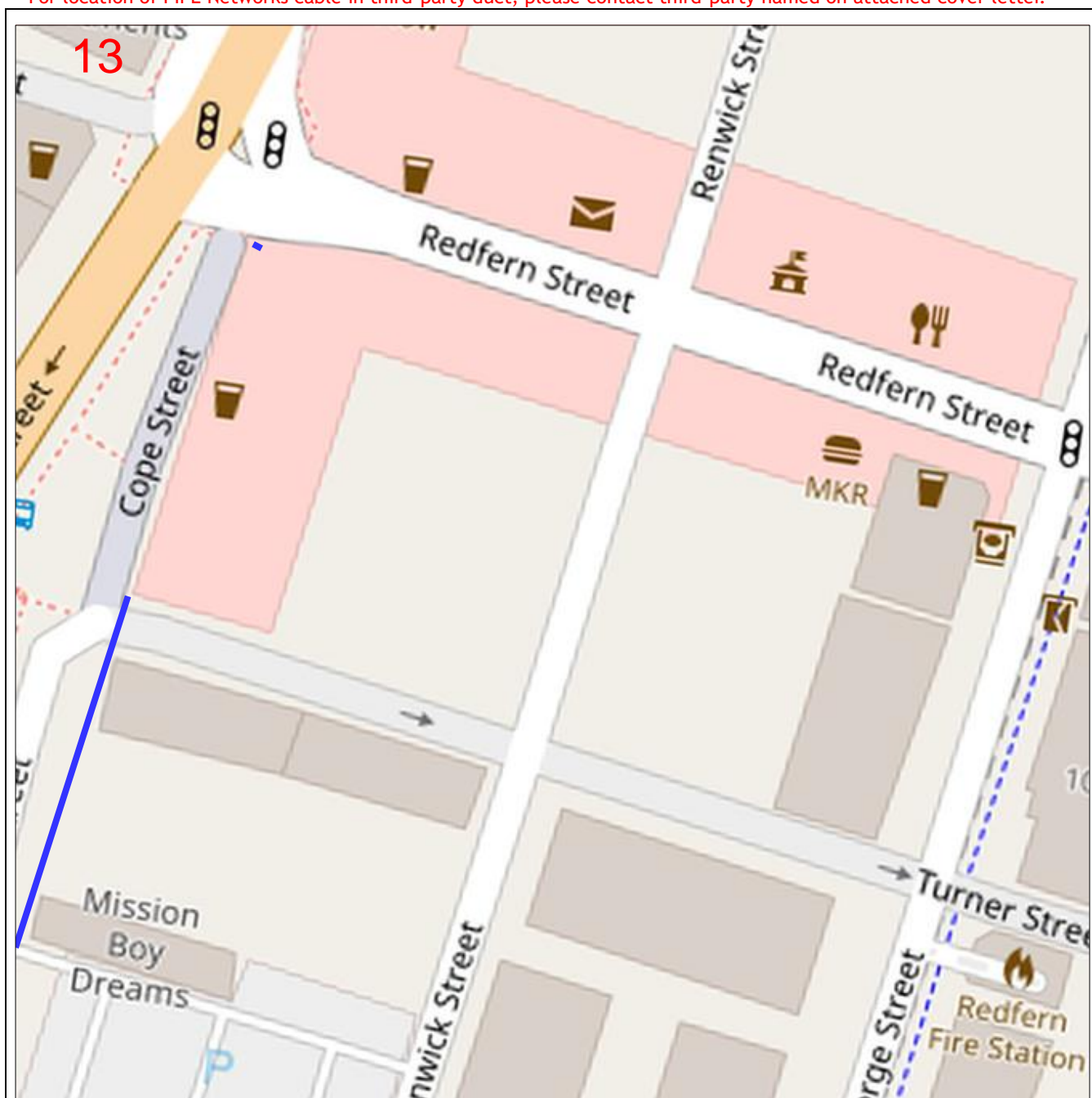
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Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 13

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area Asset

Line

Area

Manhole

Duct

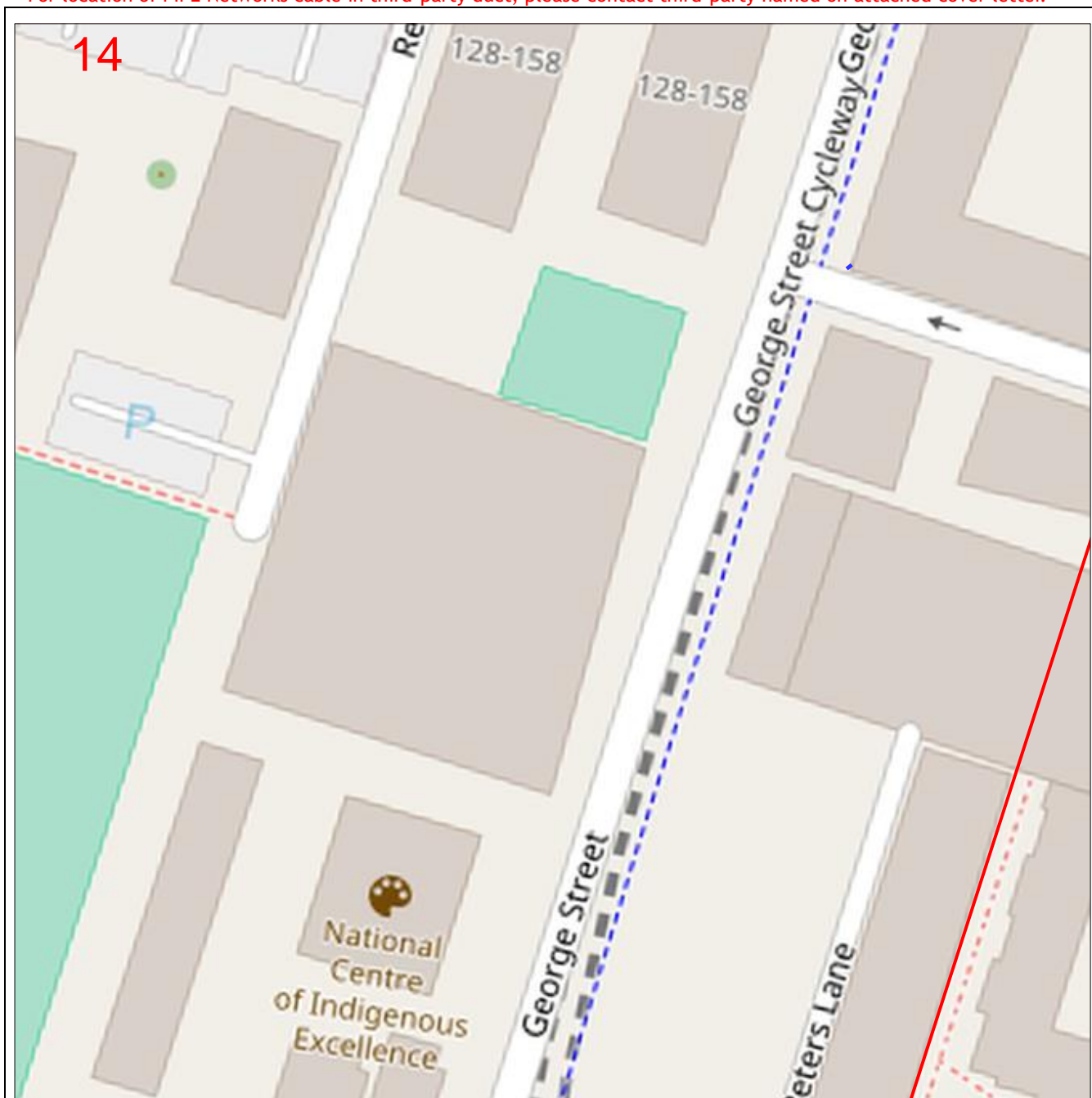


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**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 14

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area Asset

Line

Area

Manhole

Duct

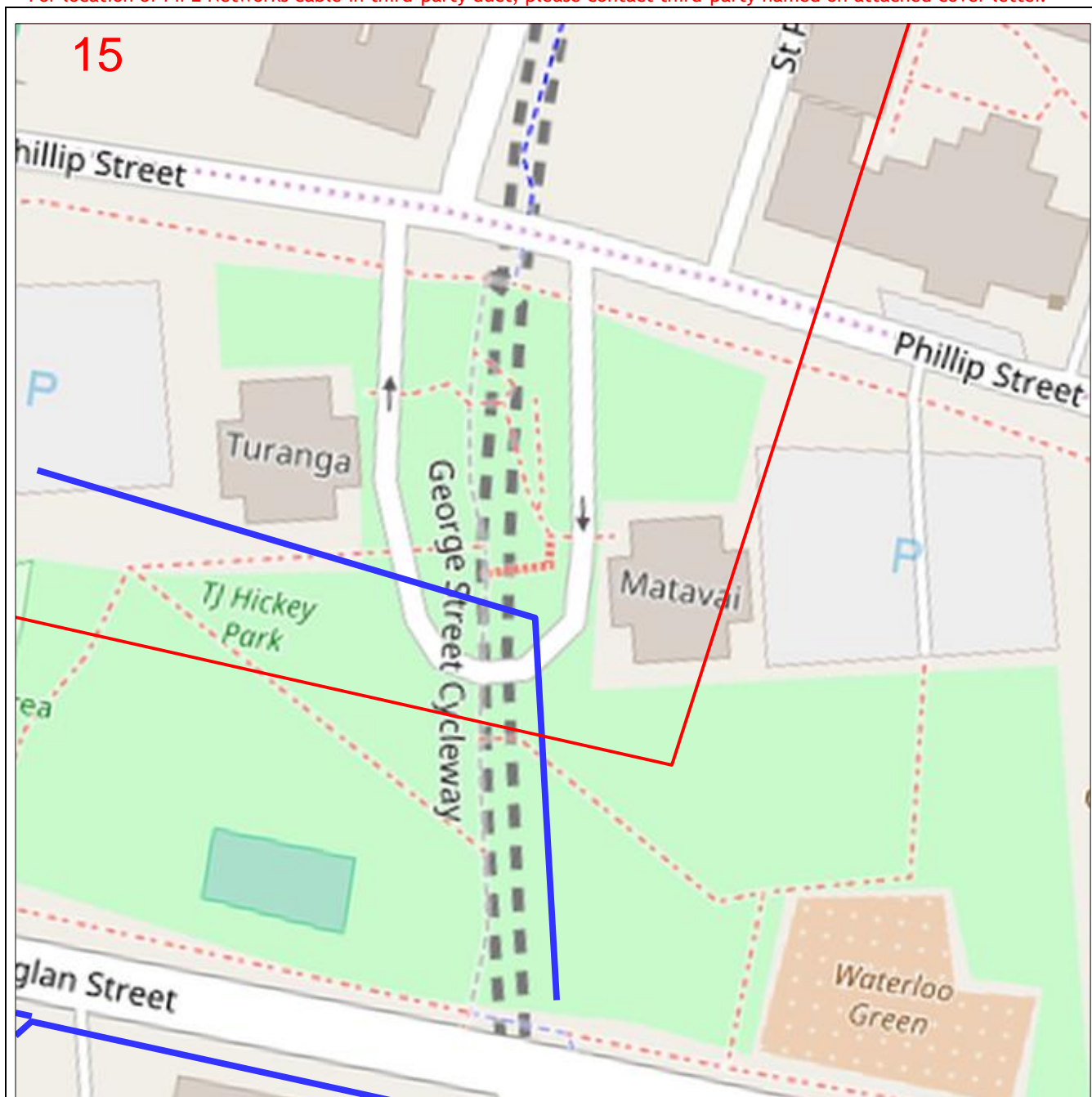


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Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 15

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area Asset

Line

Area

Manhole

Duct

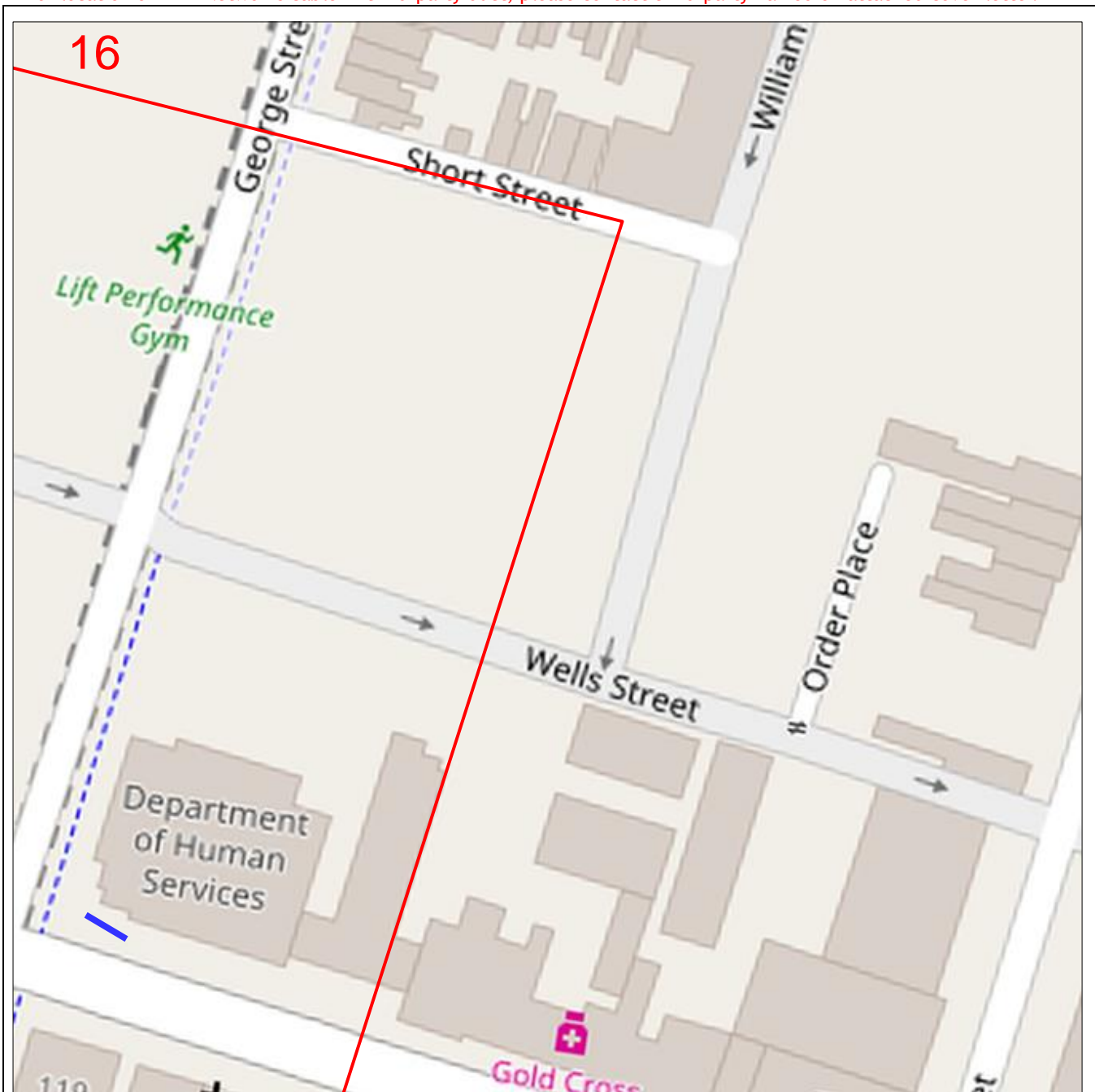


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For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 16

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area Asset

Line

Area

Manhole

Duct



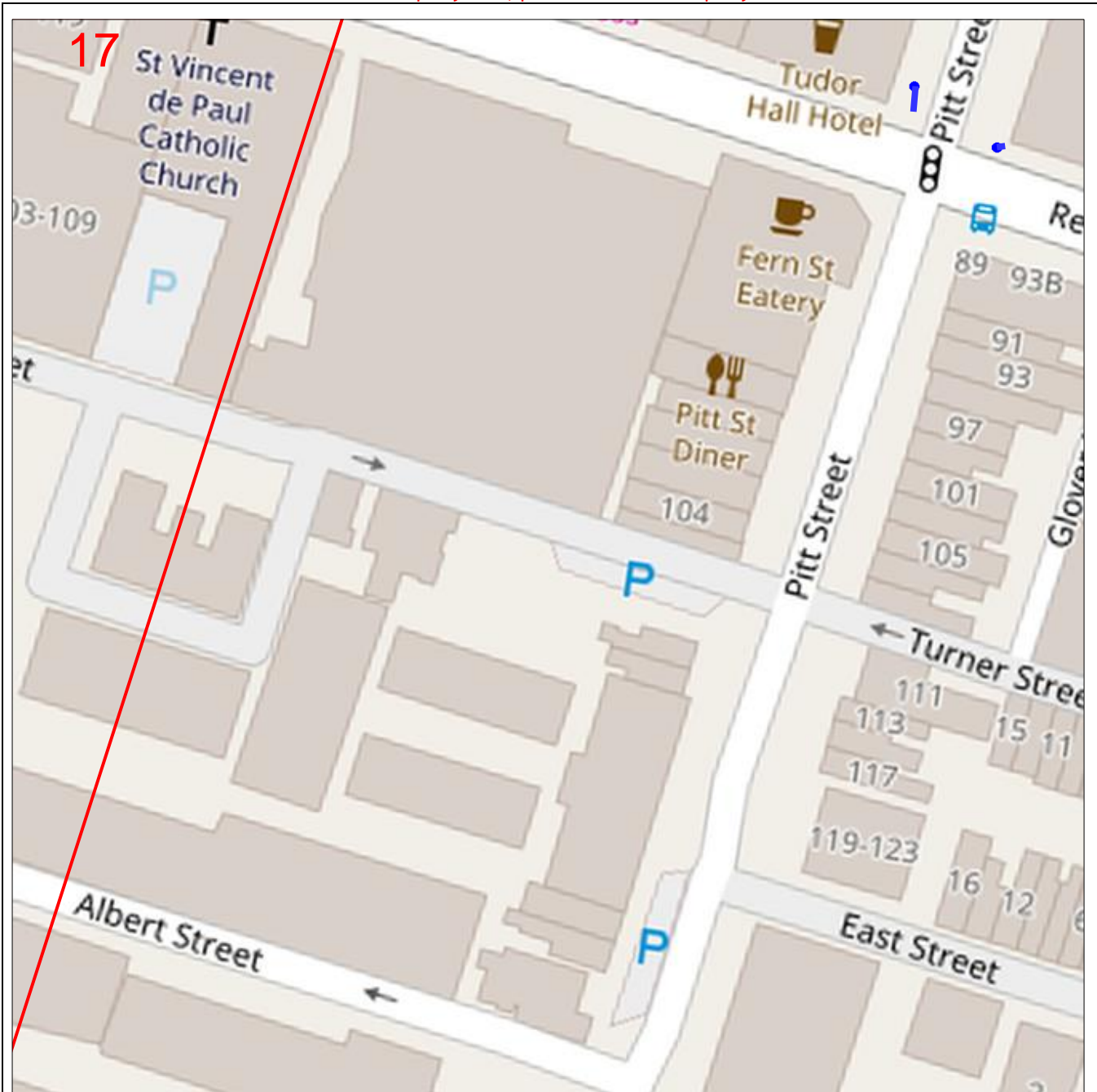
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Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 74320646

Map Sheet: 17

Scale: 1:750

0 0.008km

#### LEGEND

DBYD Request Area Asset

Line

Area

Manhole

Duct



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**Note:** If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time. **NO WORKS TO COMMENCE PRIOR TO INSPECTION.**



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.

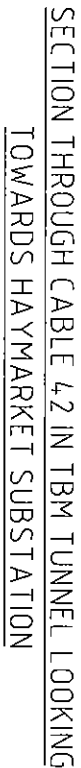
PIPE Networks will seek compensation for any damage to its network through negligence or ignorance of your duty of care.

PIPE NETWORKS

Ph (07) 3233 9895

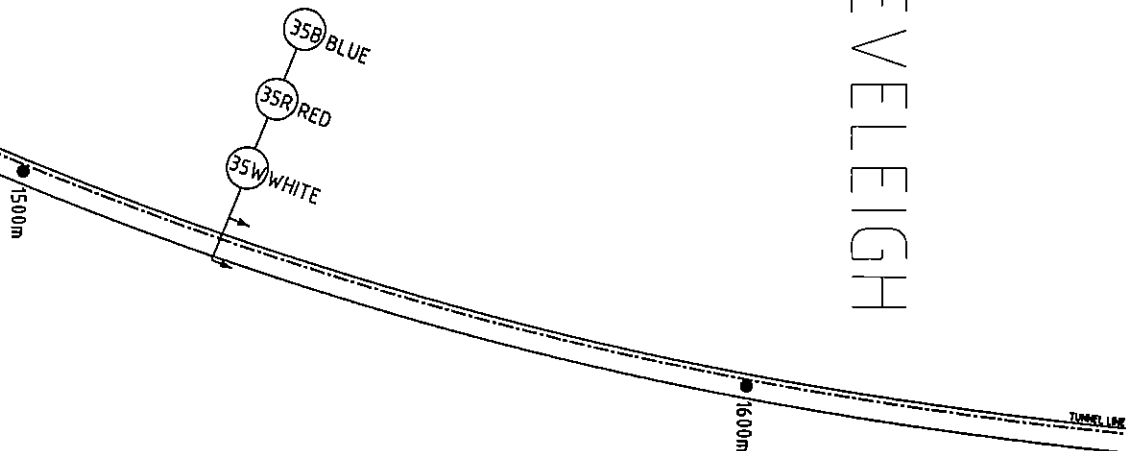
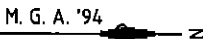
Email: dbyd@pipenetworks.com

(for information specifically on this job only)



EVELEIGH

ALEXANDRIA



GARDEN ST

# AUSTRALIAN



ATP SHAFT @  
CH. 14.00.689m.

JOINS DRG. No. CAB807692

CAB808120 (TUNNEL SECTIONS)

DRAWN Diona

KKS CODING

©TransGrid

R  
 MITSUI & Co. Ltd.

DIONA Pty. Ltd.

SYDNEY SOUTH SS - HAYMARKET SS  
330kV U/G CABLE No. 42 AS LAID ROUTE PLAN

(SECTION 38)

A3

CAB807693

00

PLOT ISSUE DATE

**COPIED FROM**

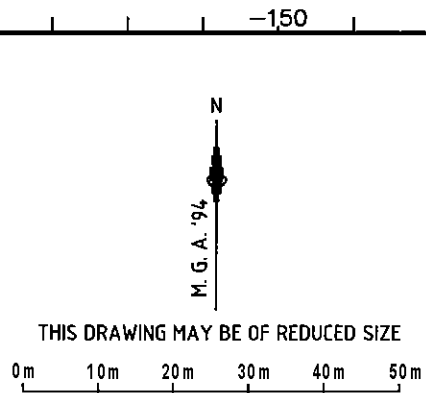
**SUPERSEDES**

**SUPERSEDED BY**

INDEX CLASS'N

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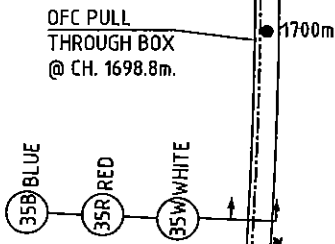
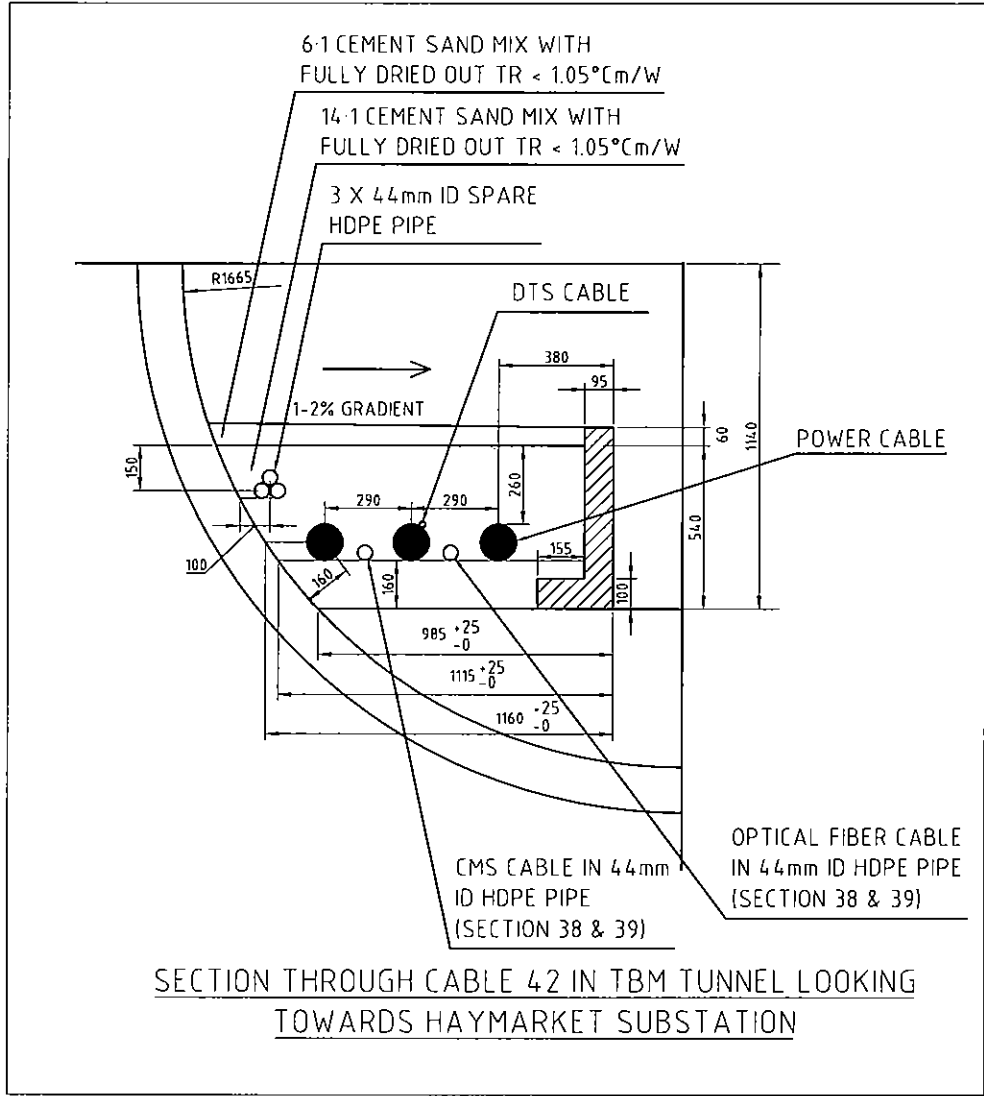
TransGrid is the registered business name of the Electricity Transmission Authority



JOINS DRG. No. CAB807695

EVELEIGH

REDFERN



JOINS DRG. No. CAB807693

AMENDED BY: DATE:



CAB808120 (TUNNEL SECTIONS)

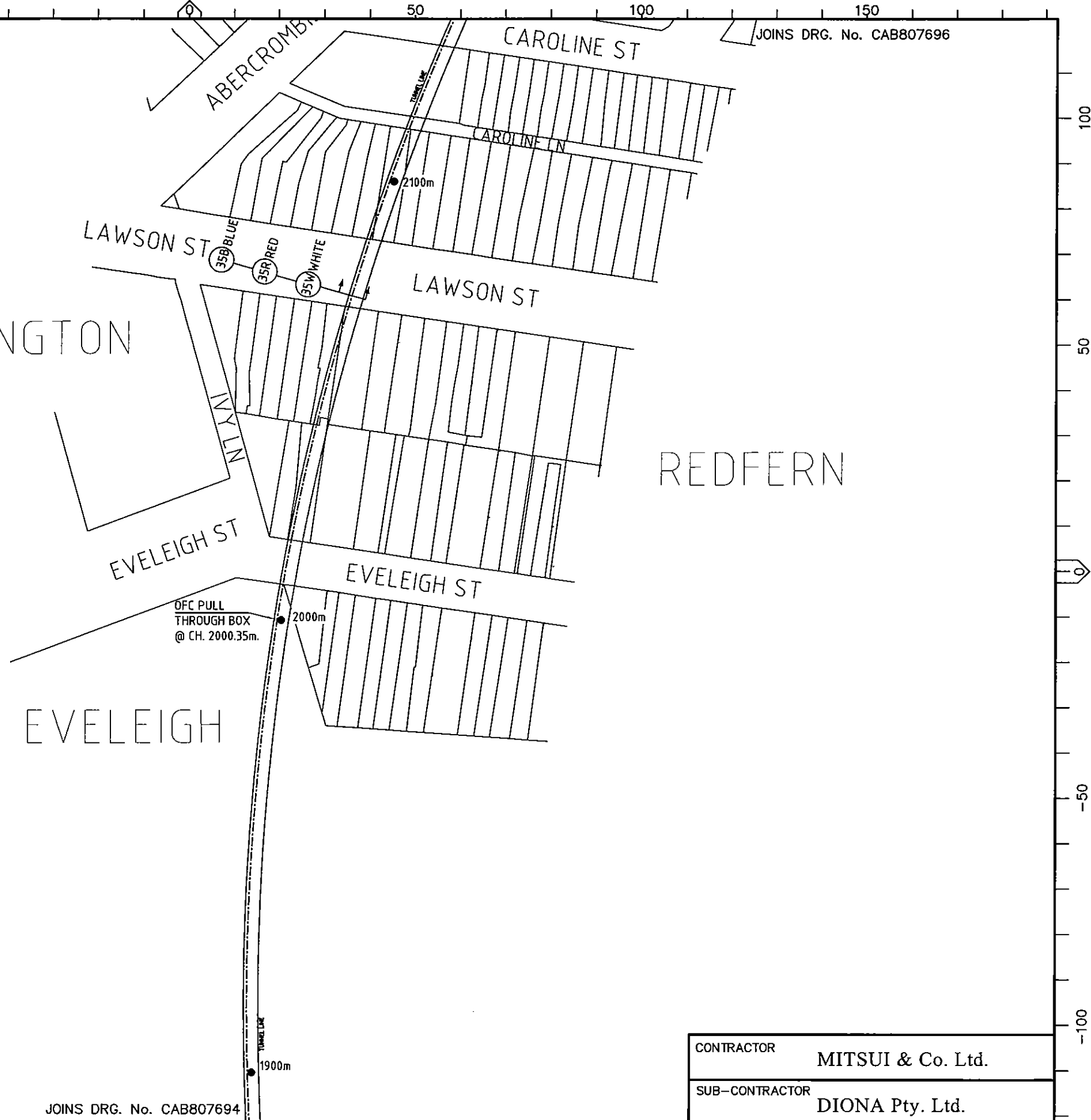
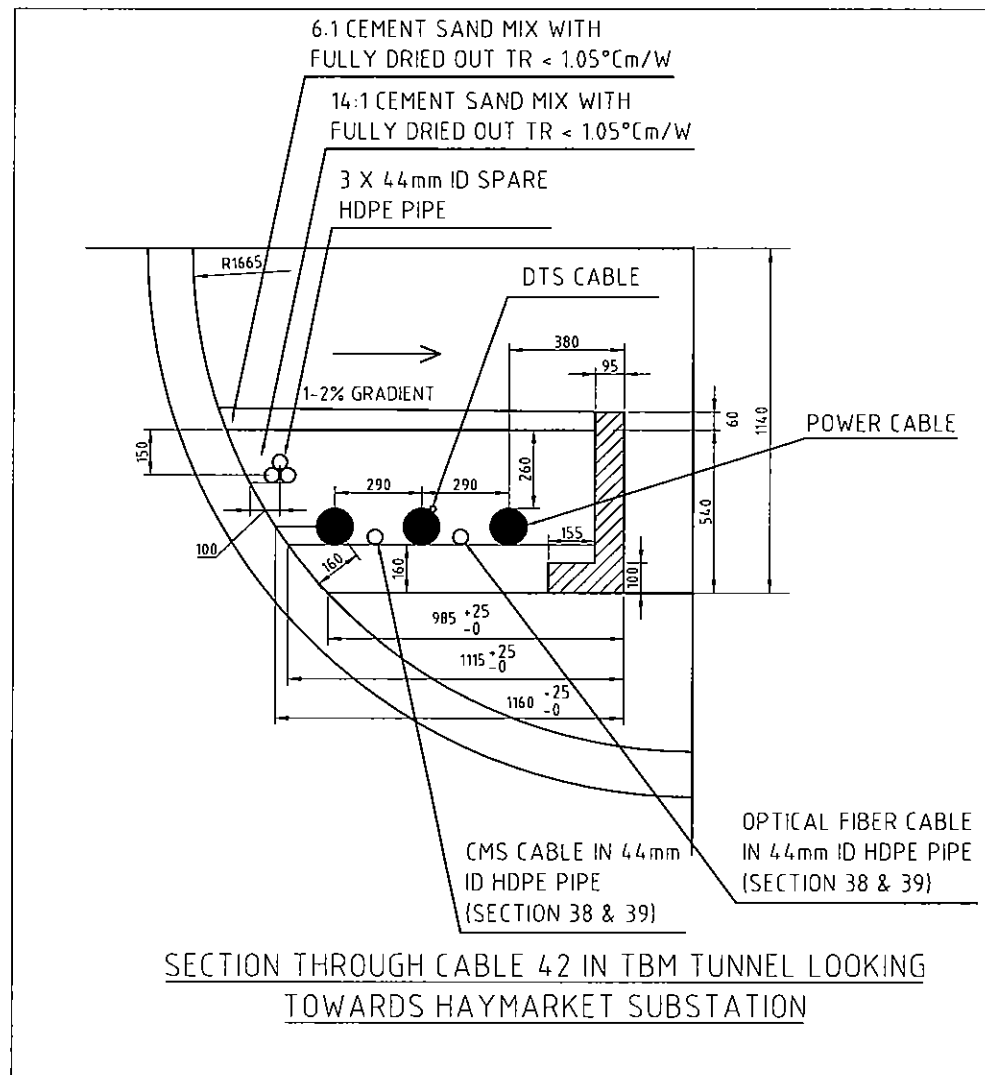
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REVIEWED	TB	1 JUNE-2005
APPROVED	GB	1 JUNE-2005

KKS CODING
APPROVED AS BUILT
APPROVAL STATUS
DO NOT AMEND MANUALLY

CONTRACTOR			MITSUI & Co. Ltd.		
SUB-CONTRACTOR			DIONA Pty. Ltd.		
			©TransGrid		
			SYDNEY SOUTH SS - HAYMARKET SS 330kV U/G CABLE No. 42 AS LAID ROUTE PLAN TBM TUNNEL, EVELEIGH/REDFERN (SECTION 38)		
A3		CAB807694		00	
		PREFIX NUMBER SHEET		AMDT	



TransGrid is the registered business name of the Electricity Transmission Authority



JOINS DRG. No. CAB807694

AMENDED BY:	DATE:
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CAB808120 (TUNNEL SECTIONS)

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REVIEWED	TB	1 JUNE-2005	APPROVED AS BUILT
APPROVED	GB	1 JUNE-2005	APPROVAL STATUS
SCALE	1:1000		DO NOT AMEND MANUALLY

CONTRACTOR **MITSUI & Co. Ltd.**

SUB-CONTRACTOR **DIONA Pty. Ltd.**

©TransGrid

SYDNEY SOUTH SS - HAYMARKET SS  
330kV U/G CABLE No. 42 AS LAID ROUTE PLAN  
TBM TUNNEL, EVELEIGH/REDFERN  
(SECTION 38)

A3

CAB807695

00

PREFIX NUMBER SHEET

AMD

PLOT	ISSUE DATE
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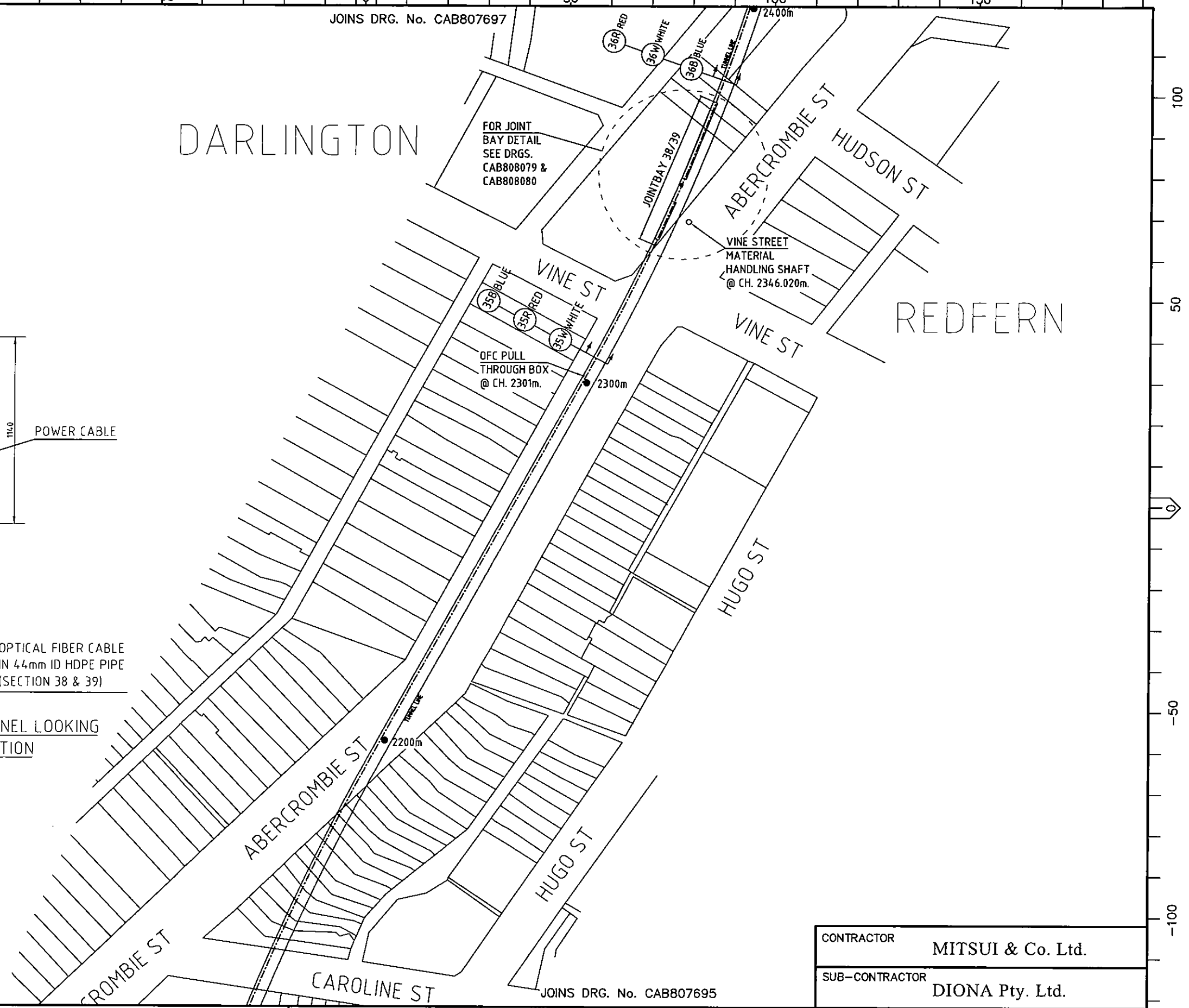
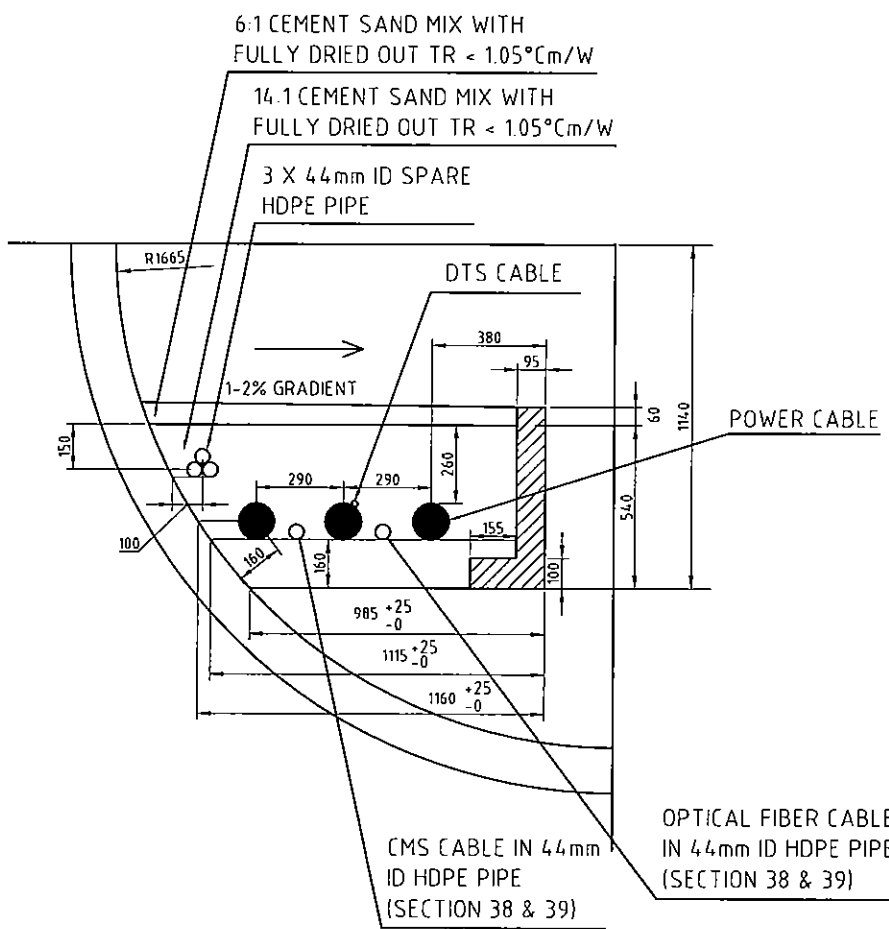
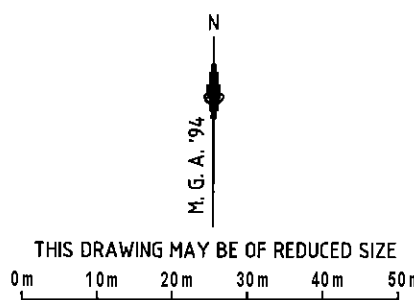
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AMENDED BY: DATE:



CAB808120 (TUNNEL SECTIONS)  
CAB808179 (JB 38/39 PLAN)  
CAB808180 (JB 38/39 SECTION)

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APPROVED	GB	1 JUNE-2005

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APPROVED AS BUILT	
APPROVAL STATUS	
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CONTRACTOR		MITSUI & Co. Ltd.	
SUB-CONTRACTOR		DIONA Pty. Ltd.	
©TransGrid			
SYDNEY SOUTH SS - HAYMARKET SS 330kV U/G CABLE No. 42 AS LAID ROUTE PLAN TBM TUNNEL, REDFERN (SECTIONS 38/39)			
A3	CAB807696		00
	PREFIX NUMBER SHEET		AMDT

Mr David Huang  
Arcadis  
141 Walker Street  
North Sydney  
NSW 2060

Dear Mr David Huang,

**Dial Before You Dig Enquiry 74320656**  
**13-23 Gibbons Street, Redfern, NSW 2016**

Thank you for your enquiry regarding Mechanical Excavation at 13-23 Gibbons Street, Redfern, NSW 2016 commencing on 12/08/2018 12:00:00 AM.

TransGrid **does** have underground assets in the vicinity of this location, specifically an underground service tunnel for 330,000 Volt power cables as shown on the attached plan. TransGrid must be consulted on any excavation 5 metres or greater in depth or any works that may penetrate into a zone of influence around the tunnel, such as ground anchors extending outside your property boundary. In most locations the tunnel is encompassed by a registered property title in stratum. There shall be no excavation, building or drilling into any of these lots.

Please be aware that damage to these assets could lead to serious injury or death and widespread electricity supply interruptions including to the Sydney CBD. Costs which TransGrid may recover under NSW legislation include:

- The costs incurred in replacing any of TransGrid's electricity works destroyed by the excavation work.
- The costs incurred in repairing any damage to TransGrid's electricity works caused by the excavation work.
- The costs incurred in remedying or mitigating any interference with TransGrid's electricity works caused by the excavation work.

**No digging, boring, or excavation is to be carried out near this important infrastructure without first contacting TransGrid on (02) 9620 0422 at least two working days prior to your planned start date to discuss necessary safety aspects and work methods.** Any further information or detail you may require in addition to that provided here can be discussed during this contact or a site meeting arranged where necessary. During work near the cables, TransGrid will provide a standby person to monitor safety aspects in relation to work near the cables, and this service is at nil cost to the contractor.

**You must:**

- Provide TransGrid with any information about the proposed work.
- Not carry out excavation work unless you have complied with any instructions issued by TransGrid relating to the works in accordance with section 49A(2)(a) of the Electricity Supply Act 1995.
- Ensure information provided in this response remains on-site at all times throughout your construction phase.
- Not modify the extent of work in the vicinity of the cable without prior notification to TransGrid.
- Notify TransGrid of any damage to its infrastructure that occurs as a result of your work, by telephoning the emergency contact number 1800 027 253.

TransGrid draws your attention to the WorkCover “Work Near Underground Assets Guide 2007” a copy of which can be obtained from the NSW WorkCover Authority or at this web link:

[http://www.workcover.nsw.gov.au/\\_data/assets/pdf\\_file/0018/24408/work\\_near\\_underground\\_assets\\_1419.pdf](http://www.workcover.nsw.gov.au/_data/assets/pdf_file/0018/24408/work_near_underground_assets_1419.pdf)

In particular, the following items relate specifically to TransGrid’s Extra High Voltage (EHV) cables:

1. Section 4.9, Table A: The Installation of Various Types of Underground Assets.
2. Section 5.1.2: Safety considerations for Low, High or Extra High Voltage electrical cables.
3. Section 5.2, Table B: Types of Assets and Limits of Underground Approach.
4. Section 6.1.3: Consultation with Relevant Parties Prior to Commencing Work.
5. Section 6.10: Directional Boring.
6. Section 7.2.1: Accidental Contact with Underground Assets – Electrical Assets.
7. Section 7.6: Asset Owner Plans and ‘Dial Before You Dig’.

These sections shall be read in conjunction with the entire guide.

Please find attached drawings showing the location of TransGrid’s Service Tunnel and the associated 330kV cable in this vicinity. Please note that on these drawings, streets are shown at the private property boundary (not the kerb & gutter, unless otherwise stated).

**The provision of these drawings does not provide approval for your proposed works or diminish your obligations under NSW legislation, including the requirement to contact TransGrid prior to any work commencing to discuss necessary safety and design aspects as detailed above. Please provide information on your proposed works for TransGrid’s review with sufficient time to allow for adjustments to meet TransGrid’s requirements for work in the vicinity of this important High Voltage Electricity Asset.**

*NSW Electricity Networks Operations Pty Limited as trustee for NSW Electricity Networks Operations Trust, trading as TransGrid, is responsible for the transmission of High Voltage electricity from Power Stations to Distribution Service Providers such as Ausgrid (formerly EnergyAustralia) and Endeavour Energy (formerly Integral Energy).*

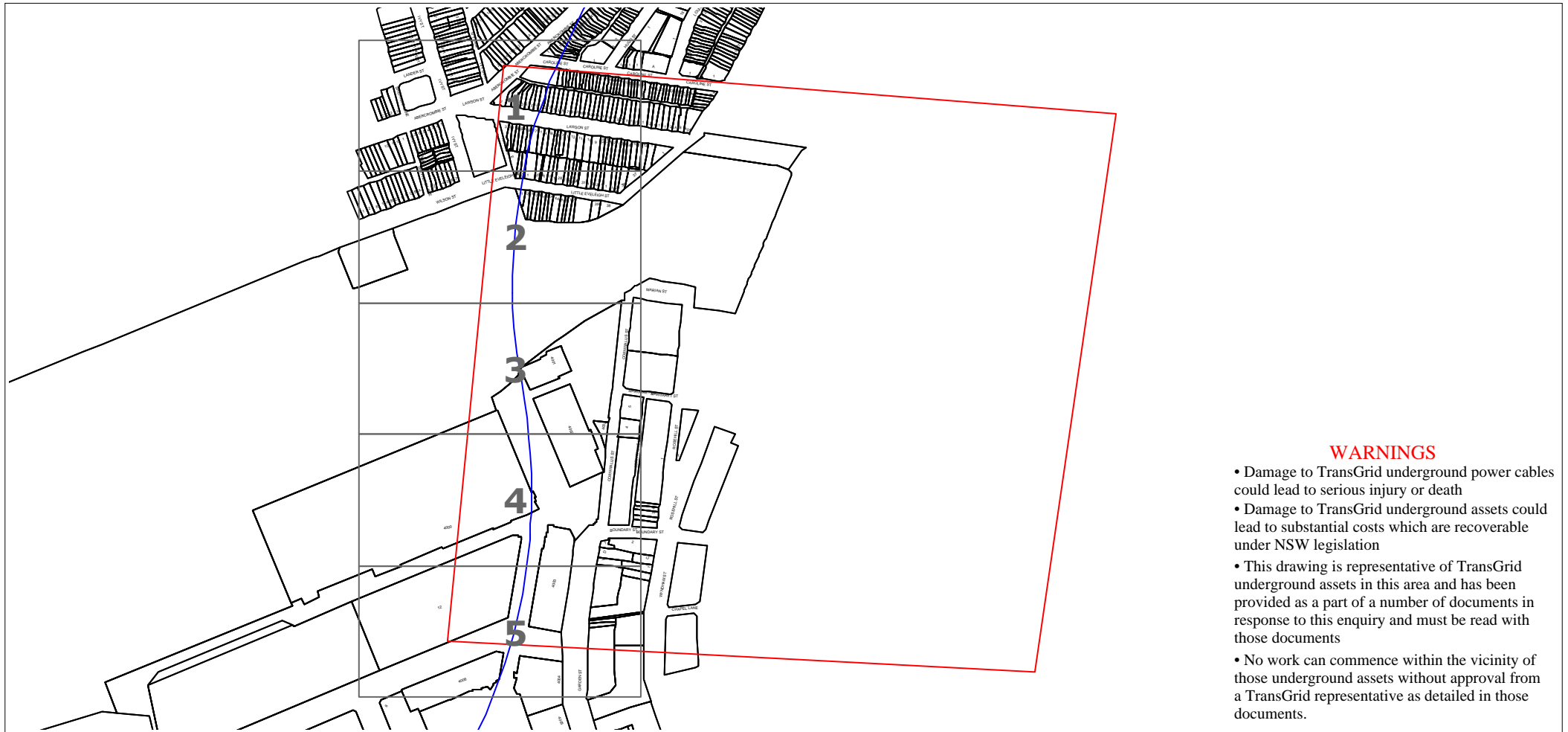
*TransGrid is a separate organisation to ActewAGL, Ausgrid, Endeavour Energy and Essential Energy (formerly Country Energy), and does not represent the views or opinions of these other entities.*

*As the operator and manager of the NSW high voltage electricity network, TransGrid keeps you and your way of life connected – 24/7. We connect generators, distributors and major end users across the state, enabling you to access electricity where and when you need it. TransGrid is also a licensed Telecommunications Carrier.*

Yours sincerely,

**Metropolitan Cables Section**





### WARNINGS

- Damage to TransGrid underground power cables could lead to serious injury or death
- Damage to TransGrid underground assets could lead to substantial costs which are recoverable under NSW legislation
- This drawing is representative of TransGrid underground assets in this area and has been provided as a part of a number of documents in response to this enquiry and must be read with those documents
- No work can commence within the vicinity of those underground assets without approval from a TransGrid representative as detailed in those documents.

**Create Date:** 09/08/2018

**Scale** 1:1000

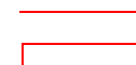
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**Exact positions of any assets shown on this map should be confirmed on site as directed by TransGrid.**

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Cadastre sourced from DELWP Victoria under Creative Commons 4.0



DBYD Enquiry



Cable Assets

Tunnel Assets





**Create Date:** 09/08/2018

**Scale** 1:1000

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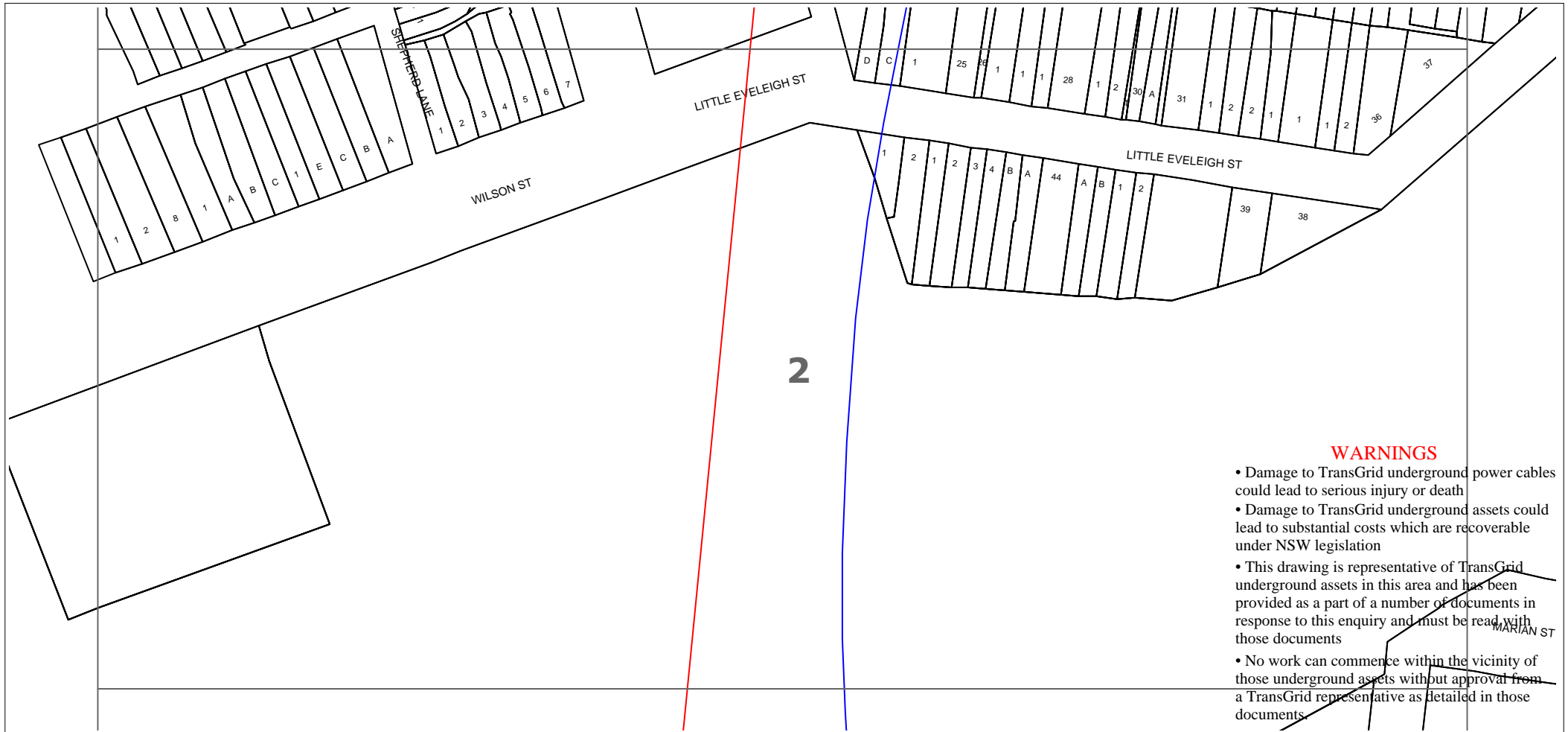
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Cadastral sourced from DELWP Victoria under Creative Commons 4.0



DBYD Enquiry

Cable Assets

Tunnel Assets



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**Create Date:** 09/08/2018

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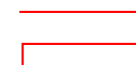
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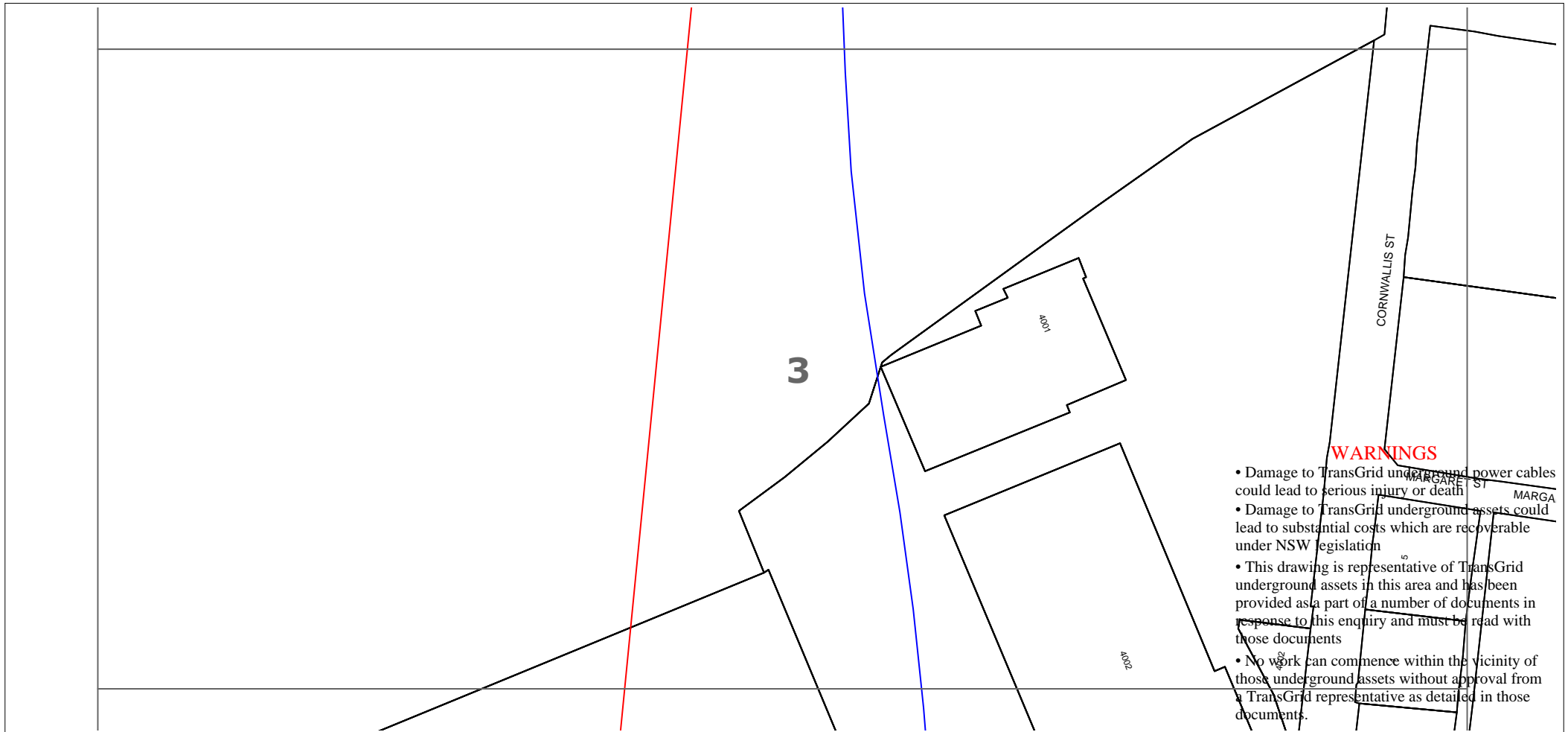
DBYD Enquiry



Cable Assets

Tunnel Assets





**Create Date:** 09/08/2018

**Scale** 1:1000

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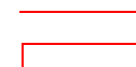
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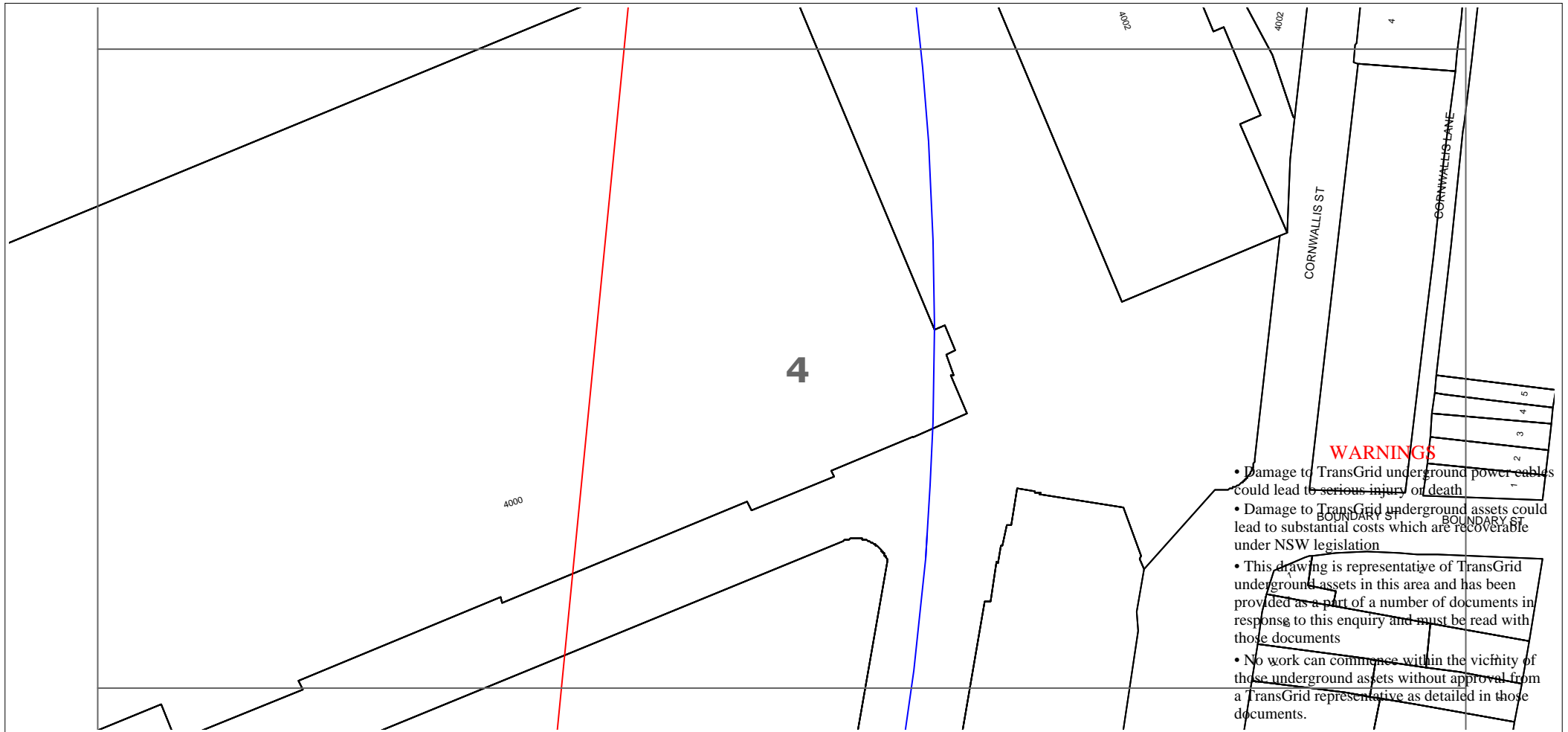
DBYD Enquiry

Cable Assets

Tunnel Assets







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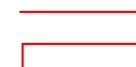
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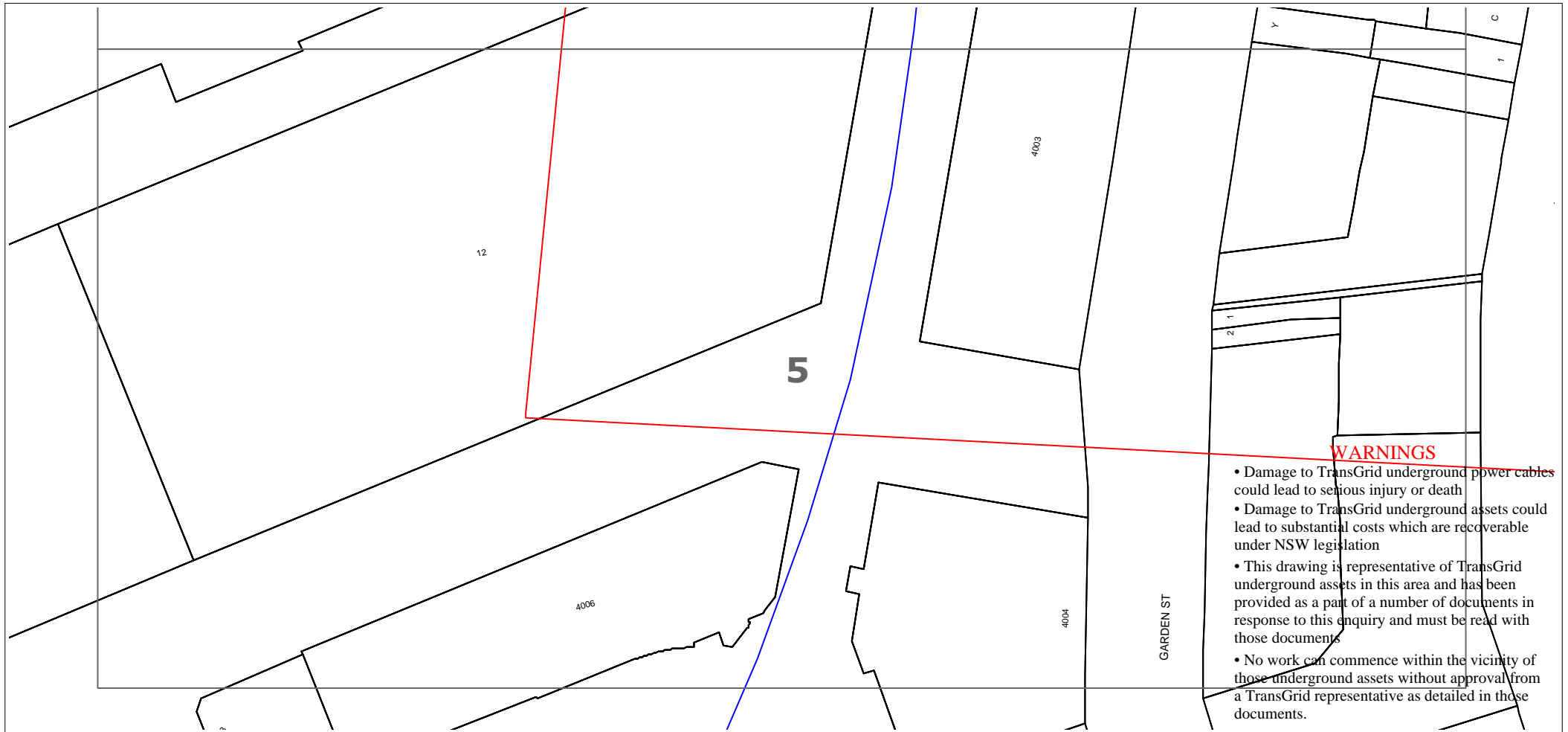
DBYD Enquiry



Cable Assets

Tunnel Assets





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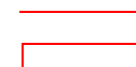
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DBYD Enquiry



Cable Assets

Tunnel Assets



09/08/2018

Mr David Huang  
Arcadis  
141 Walker Street  
North Sydney 2060 NSW

Dear Mr David Huang

**DIAL BEFORE YOU DIG – JOB: 14724930 SEQ: 74320655**

Thank you for your request on 09/08/2018 11:55 , regarding the location of telecommunication services. You requested the information for the below area:

Address: 13-23 Gibbons Street  
Suburb: Redfern  
State: NSW

Additional Information: Not Supplied

**YES – We can confirm that the Vocus Group has fibre optic services within the vicinity**

Please find attached a copy of the services plan for the location of the works. Please note that these plans have a life of 30 days from the date you requested (above), as future works may affect your enquiry.

#### **IMPORTANT INFORMATION**

Drawings and Plans provided by the Vocus Group are reference diagrams which were correct at the time the asset was built. Exact ground cover and alignments cannot be provided with any certainty, as these may alter over time. Depths of Telecommunications plant vary considerably as do alignments. The plans provided are to be used as a guide only. It is essential to uncover / pothole the asset and positively identify the assets exact location.

Please call 1800 262 663 for any general enquiries about the information provided within this response.

Yours sincerely,

Vocus Group DBYD Team

**EMERGENCY CONTACT: 1800 262 663**

---

Vocus Level 12, 60 Miller Street

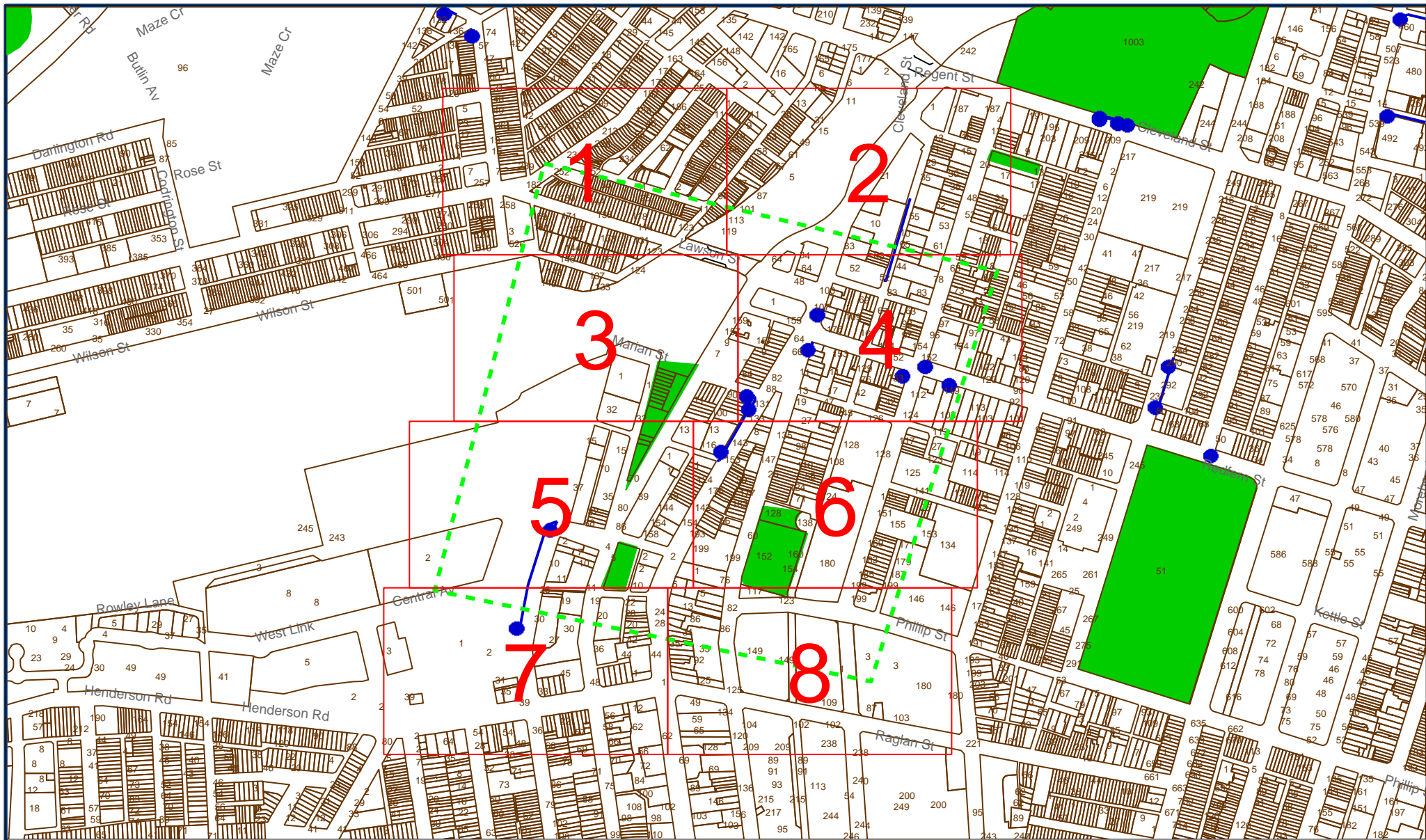
North Sydney NSW 2060

T: 1300 88 99 88

E: [info@vocus.com.au](mailto:info@vocus.com.au)

The Vocus Group includes related bodies corporate of Vocus Communications Limited ACN 084 115 499

# OVERVIEW



**VOCUS**  
communications



SEQUENCE NUMBER: 74320655  
JOB NUMBER: 14724930  
ADDRESS: 13-23 Gibbons Street Redfern

SCALE 1:5000

0 0.06km





**VOCUS**  
communications



SEQUENCE NUMBER:  
JOB NUMBER:  
ADDRESS:

74320655  
14724930  
13-23 Gibbons Street Redfern

SCALE 1:1000

0 0.01km



SEQUENCE NUMBER: 74320655  
 JOB NUMBER: 14724930  
 ADDRESS: 13-23 Gibbons Street Redfern

SCALE 1:1000

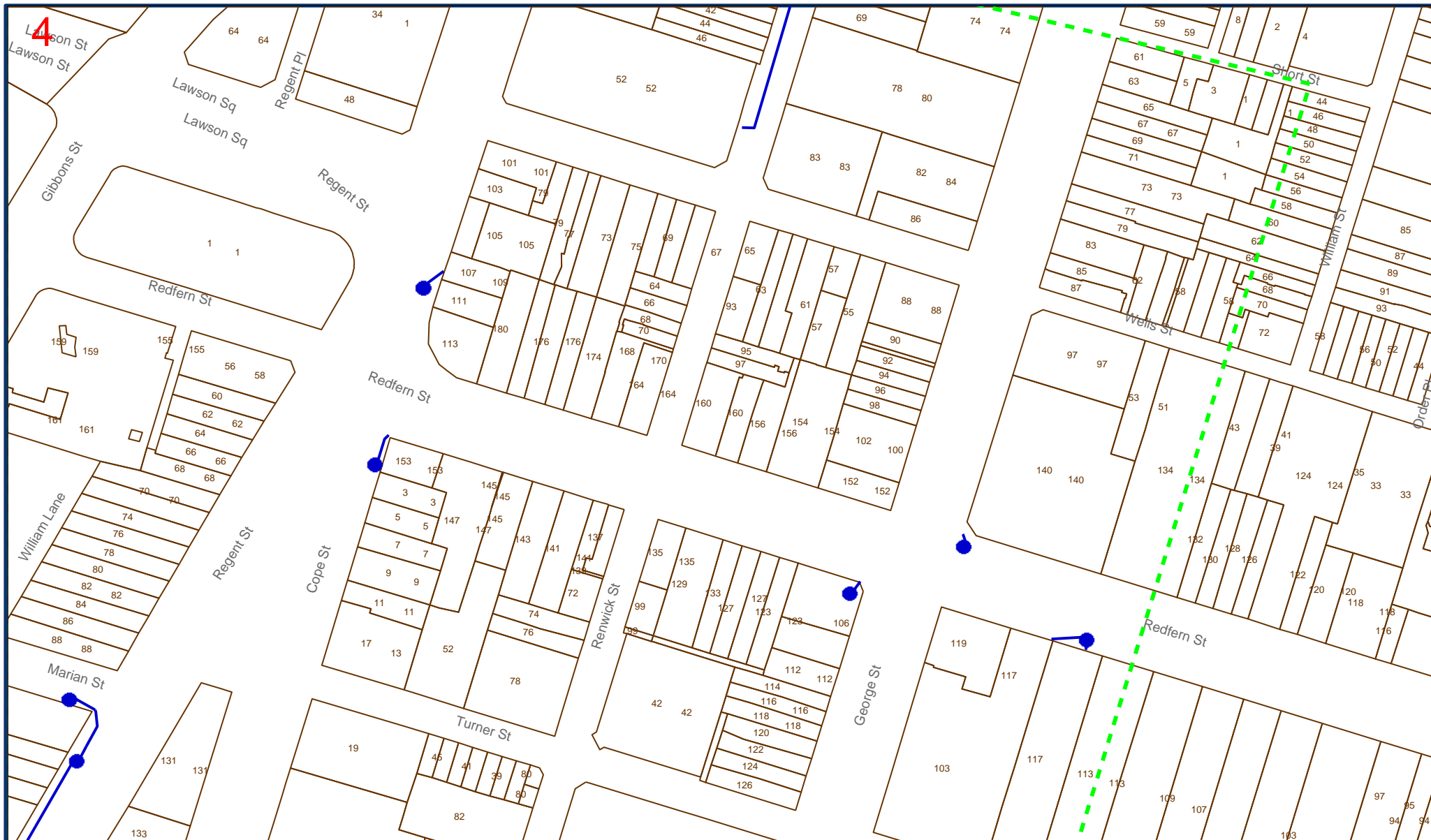
0 0.01km



SEQUENCE NUMBER: 74320655  
JOB NUMBER: 14724930  
ADDRESS: 13-23 Gibbons Street Redfern

SCALE 1:1000

0 0.01km



**VOCUS**  
communications



SEQUENCE NUMBER: 74320655  
JOB NUMBER: 14724930  
ADDRESS: 13-23 Gibbons Street Redfern

SCALE 1:1000

0 0.01km



5

Locomotive St

Cornwallis St

Margaret St

Rosehill St

Gibbons St

Margaret St

William Lane

Boundary St

Botany Rd (Regent St)

Regent St

Garden St

Wyndham St

Spencer Lane

**VOCUS**  
communications

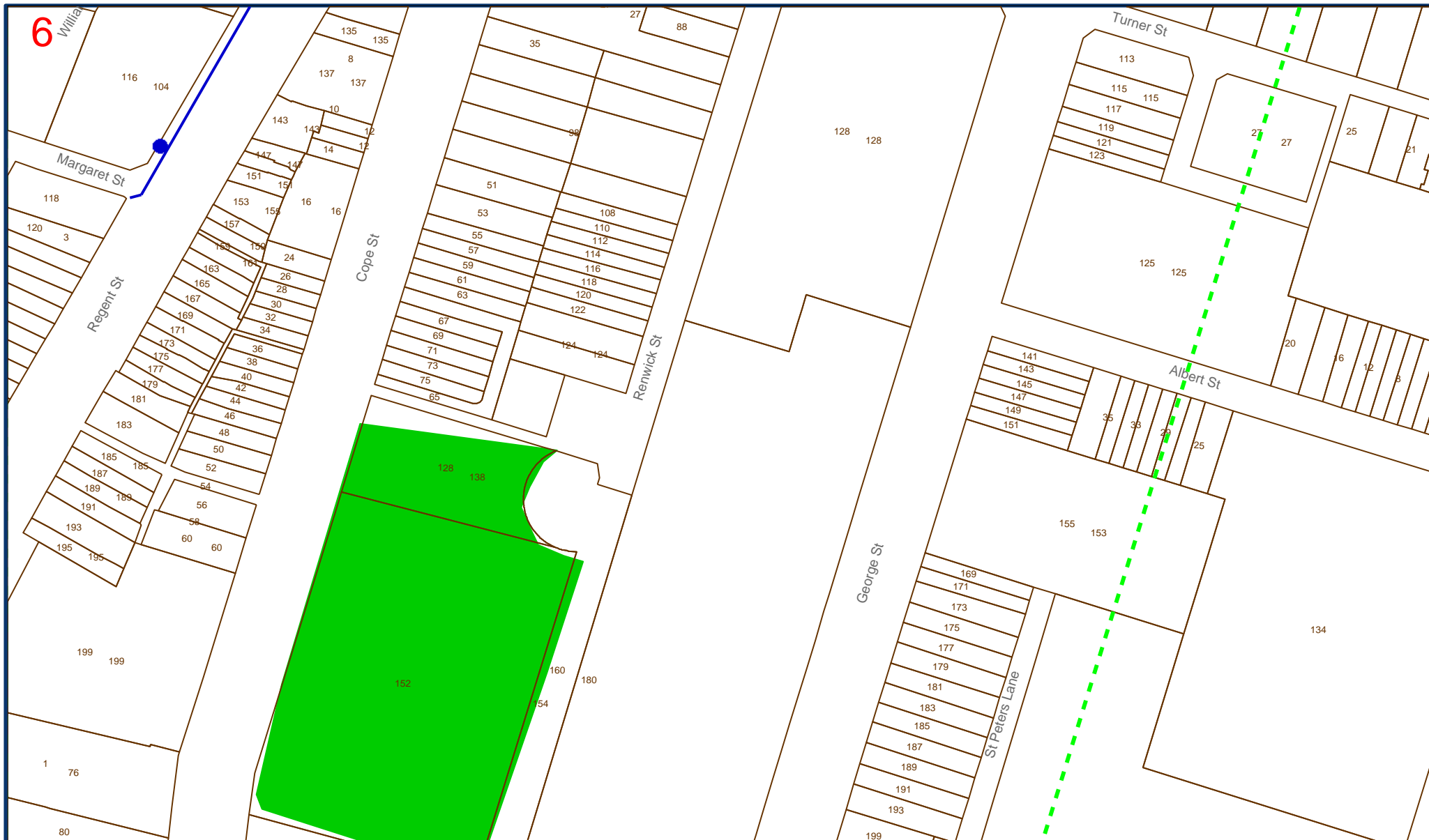


SEQUENCE NUMBER:  
JOB NUMBER:  
ADDRESS:

74320655  
14724930  
13-23 Gibbons Street Redfern

SCALE 1:1000

0 0.01km

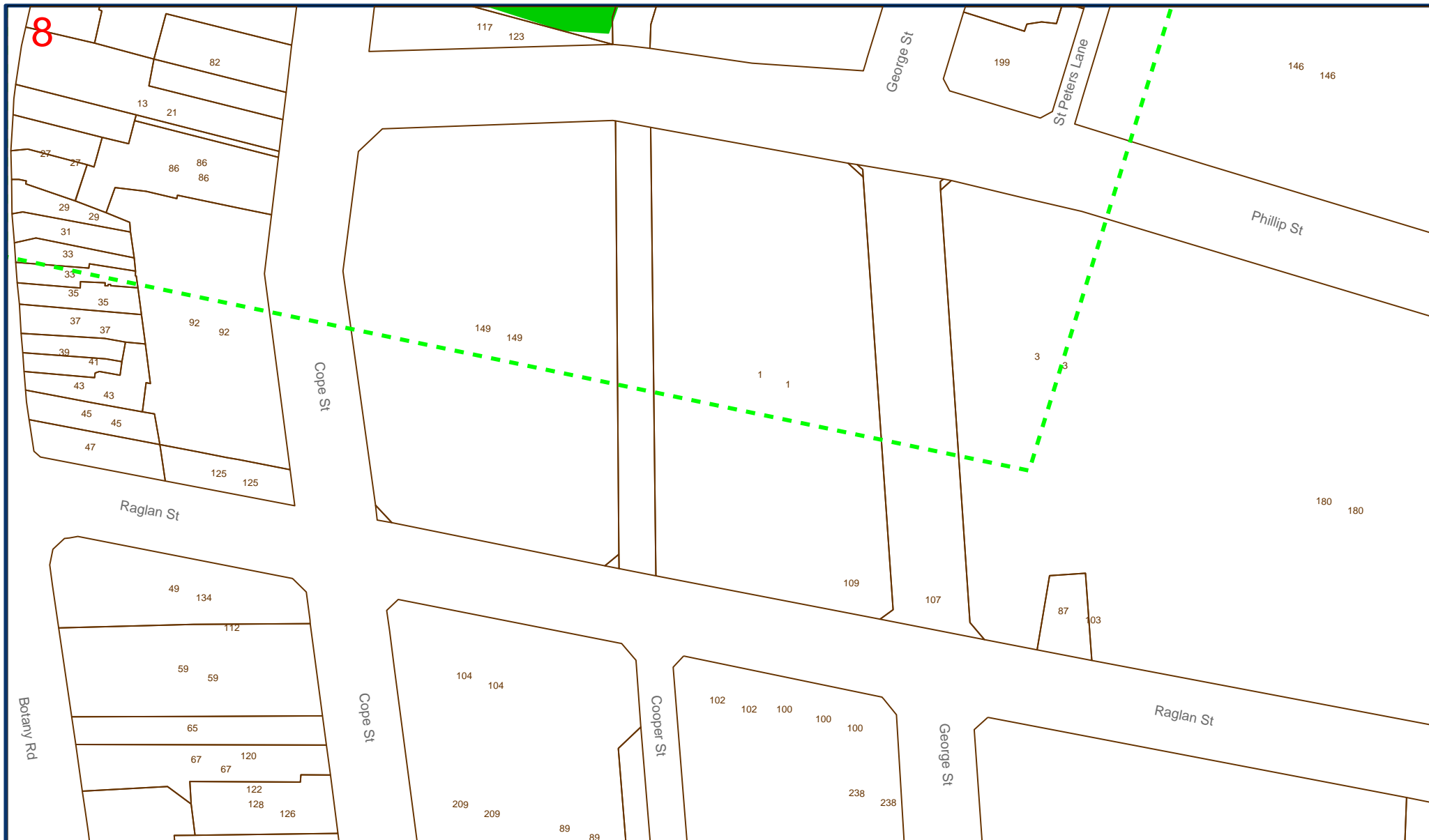


SEQUENCE NUMBER: 74320655  
 JOB NUMBER: 14724930  
 ADDRESS: 13-23 Gibbons Street Redfern

SCALE 1:1000

0 0.01km





SEQUENCE NUMBER: 74320655  
 JOB NUMBER: 14724930  
 ADDRESS: 13-23 Gibbons Street Redfern



SCALE 1:1000

0 0.01km



## LEGEND

The below legend indicates the different layers within the map.

	Vocus Group Pit
	Vocus Group Conduit

## **APPENDIX D – PRELIMINARY APPLICATION TO AUSGRID AND RESPONSE**

## Fogerty, Benjamin

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**From:** David Tomlin <dtomlin@ausgrid.com.au>  
**Sent:** Monday, 3 December 2018 2:08 PM  
**To:** Fogerty, Benjamin  
**Subject:** Preliminary Enquiry Response 13-23 Gibbons St, Redfern

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Dear Ben,

I have reviewed your proposal, to confirm the use of two mini substations you will need to submit a NECF03 application to [datanorth@ausgrid.com.au](mailto:datanorth@ausgrid.com.au). The proposed position of the substations is of a concern as trafficable access is required outside the substation for transformer delivery, you will need to speak to a ASP3 designer to resolve this and any associated ventilation, fire clearances which may arise by installing the substations on a pedestrian through link. Thank you.

Regards

**David Tomlin**

Team Leader / Contestable Connections Sydney East & CBD

Network Connections | NETWORK OPERATIONS

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**Ausgrid** | Level 1, Building 4, 130 Joynton Ave, Zetland NSW 2017  
**M:** 0407 278 470 **T:** (02) 9663 9526  
**F:** (02) 9663 9499 **E:** [dtomlin@ausgrid.com.au](mailto:dtomlin@ausgrid.com.au) **W:** [www.ausgrid.com.au](http://www.ausgrid.com.au)

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