BG &E

Project No: S15180

7 October 2015

JBA Level 7, 77 Berry Street NORTH SYDNEY NSW 2059

**Attention: Kim Shmuel** 

Dear Kim

DUE DILIGENCE SERVICES REPORT HIGH STREET, PENRITH

### 1 INTRODUCTION

This Services Due Diligence Report has been prepared by BG&E as requested by JBA, on behalf of their client.

The objective of this report is to examine the existing services available to the site and advise if augmentation will be required as a consequence of the intended development of approx. 950 apartments and associated retail space.

The infrastructure assessed in this report comprises Sewer, Potable Water, Electricity, Telecommunication services and Gas. The approval authority for the site is Penrith City Council.

The project site is located generally at High Street within the Penrith Local Government Area (LGA). The subject site is L-shaped and is bounded by High Street to the north, Mulgoa Road to the west, Union Road to the south and existing properties to the east. The site is bisected in a north to south direction by John Tipping Grove. The eastern half of the site backs onto Union Lane.

The re-zoning proposal is for approximately 950 aprtments across a mix of one, two and three bedrooms. There is proposed to be approximately 12,500m2 of non-residential floor space intended to comprise retail, restaurants, office and business space and neighbourhood retail. On this basis we have assessed the potential servicing requirements.

## 2 INFORMATION SOURCES AND LIMITATIONS

The information provided in this report is based primarily on conversations and service enquiries made with Endeavour Energy, Sydney Water, Jemena, NBN and Telstra. The data has been prepared within the given time constraints and has been confirmed in writing from the various utility service providers at this time, with the exception of Endeavour Energy and Sydney Water, Connect

 ${\bf Sydney}\ Office{\bf --}$ 



Infrastructure were engaged by BG&E to provide specialist advice regarding electrical services to the site. Our findings have been based on the following:

- Review of "Dial Before You Dig" information provided by Telstra, Endeavour Energy, Jemena,
   Sydney Water and RMS;
- Review of Briefing document provided by JBA in relation to the proposed re-zoning;
- Verbal advice from Connect Infrastrcture and RAR Water Servicing Co-ordinators;
- Site inspection on 15 September 2015.
- Information related to existing services has been sourced by conducting a Dial Before You Dig search, which has formed the basis of this statement.

## **3 EXSISTING SERVICES**

A Dial Before You Dig search forms the basis of this Service Statement. An investigation will be undertaken to determine whether or not the following services are currently present on the site:

- Sewer
- Water
- Electricity
- Telecommunications
- Gas

A discussion of the presence and capacity of each of the above listed services will be discussed in turn below, and recommendations regarding their capacities.

## 3.1 Water

## 3.1.1 Sewer reticulation

A formal Feasibility Application was lodged with Sydney Water in relation to the proposed development site. The application was lodged by Rose Atkins Rimmer (RAR) who are accredited Sydney Water Water Servicing Co-ordinators.

The site falls within Sydney Water's area. Portions of the site are not currently connected to the Sydney Water network as areas currently have no tenants.

A preliminary review of the existing services adjacent to the site, read in the context of the proposed development, indicates that a sewer augmentation will be required to service the proposed development.

Given the relatively close proximity of the sewerage treatment plant on Castleraegh Road to the north of the site it is likely that we would be able to connect into one of the mains running to the treatment works. At this time the details aren't available as Sydney Water are processing our application.



The worst case scenario is that Sydney Water would determine a local carrier main had insufficient capacity and would require augmentation to the Treatment Plant or to a point closer. This is considered unlikely.

### 3.1.2 Water reticulation

The formal feasibility application also covered Sydney Water's Potable Water requirements in relation to the proposed development.

The site falls within Sydney Water's area for water supply. Sydney Water potable water mains exist surrounding the site.

A 225mm CICL water main runs along High Street from John Tipping Grove to the east. A 600mm and 100mm water main run along Union Road from Worth Street to John Tipping Grove and then turn north along John Tipping Grove.

It is expected that there will be sufficient capacity within the existing potable water network to service the proposed development.

It is assumed that the existing lots each have an individual water connection which would be replaced with a single connection as part of the redevelopment.

Sydney Water require that disused water services are disconnected and sealed at the point of connection to the Sydney Water main.

The Sydney Water feasibility application will not take into account the provision of supply for firefighting purposes. These requirements will need to be checked by the hydraulic designer appointed by the developer. If there is insufficient pressure available for firefighting purposes then a booster pump may be required as part of the building/development design.

A copy of the Sydney Water Feasibility Letter will be provided when it is received.

## 3.2 Electricity

A formal application for a connection of load has been submitted to Endeavour Energy in respect of the proposed development. The application was lodged by Connect Infrastructure, accredited designer and constructer of electrical network assets. In lieu of advice from Endeavour Energy, which has not been received at this time, Connect have advised that augmentation by way of an 11kV feeder line will be required to service the expected demand from the proposed development.

The nearest Zone Substation is situated on Castleraegh Road approximately 800m north of the subject site. Endeavour Energy will require at least one feeder to power the proposed demand from the site.

After the feeder is run to the site approximately 6 substations will be required for the proposed development. These will likely be indoor substations. Indoor substations may be installed in pairs to reduce infrastructure costs.



There may be existing conduits installed along the proposed route to the zone substation which can be utilised by the developer. If no available conduits are available they will be required to be trenched and installed by the Developer.

Wether existing conduits are available or not the proposed supply works will be required to be developer funded.

### 3.3 Telecommunications

Telecommunications services include telephone and internet services. Telstra was contacted as a starting point when considering telecommunications services for the proposed development, given the availability of services adjacent to the site as shown on the DBYD information. We were advised that due to the size of the development any application for telecommunication would need to be provided by the NBN Co. fibre network.

Early application has been made with NBN in relation to the proposed development. NBN have advised that the development is within the NBN fibre footprint.

The NBN process is somewhat different to the previous Telstra process for the provision of Telecommunications. NBN requires that the developer engage a designer who will be responsible for the provision of the telecommunications design to NBN network standards, in much the same way that electrical works are undertaken by independent accredited 3rd parties with designs submitted to NBN for review and approval.

In this instance any future development would need to incorporate the appropriate NBN design to service the residential and retail premises.

An NBN service currently runs along John Tipping Grove and along the High Street frontage.

A copy of the telecommunications DBYD information is contained in Appendix G and a copy of the NBN Co Fibre Footprint Letter is contained in Appendix H.

There is an Optus which runs past the site along Union Road and along Mulgoa Road. Information regarding this service is contained in the attachments to this report.

## 3.4 Gas

All gas infrastructure in the area is owned by Jemena. During the planning stages of the development it is the developer's responsibility to contact Jemena with details of their proposed development. Jemena will then undertake an economic analysis and consider whether it is in their interests to provide gas infrastructure to the site, and whether a contribution will be required from the developer.

We have contacted Jemena and are awaiting advice as to wether there will be sufficient capacity in the local network to supply the development. Given the sites location adjacent to the CBD area there will likely be sufficient capacity. It is important to note that Jemena does not reserve capacity for any particular project. Formal Application will be required once DA approval is obtained and Jemena receives formal application with gas load profiles.



A 200mm 3500kPa Primary gas main runs adjacent the site along Union Road and turns north onto Castleraegh Road

A 200mm 1050 kPa Secondary gas main runs thru the proposed development site along John Tipping Grove.

Given the site location it is expected that there will be sufficient capacity to service the proposed development.

A copy of the DBYD information and Jemena's advice is included in Appendix D.

In this instance we anticipate no major constraints in gas supply to the site. Any developer contributions are likely to be minimal due to the close proximity of the supply.

## 3.5 Cost Estimate

A preliminary cost estimate has been prepared and appears below. This estimate is based on our discussions with the relevant authorities and specialist advice. This information is provided on an asis basis. BG&E makes no warranties in the provision of this information.

Table 1 Services Cost Estimate

	Item		Quantity	Rate	Cost Estimate
FLECTRICAL	rem		Quantity	Nate	Cost Estimate
ELECTRICAL					
11kV Feeder from Zine Substation					
If existing of	conduits available		1 off	\$250,000	\$250,000
If trenching required			1 off	\$800,000	\$800,000
PM Substation – Internal			6 off	\$140K	\$840,000
GAS					
Available adjacent to site			-	-	-
WATER					
Available adjacent to site			-	-	-
SEWER					
Amplification requi	red		TBA	\$670/m	ТВА
NOTES:					
	1. The above estimates do	not include an allov	vance for consu	Itants fees	
	2. Service disconnection ar	nd sealing not includ	led		
	3. Cost can only be realised	d after approved pla	ıns are determir	ned by the appro	val authority



### 4 CONCLUSION

The objective of this report was to review the infrastructure required to service the proposed rezoning at High Street, Penrith to allow further development to occur.

Preliminary advice obtained from Connect Infrastructure, Level 1 and 3 accredited designers and constructors indicate that, as a minimum, six (6) developer funded local PM substations will be required to accommodate the anticipated loading. In addition to a minimum of one (1) 11kV feeder from the zone substation in Castleraegh Road being required. Any costing should be considered in the budget planning. However, this is not considered a constraint to development.

Gas supply is available to the site from the 200mm mains adjacent to the site perimeter. Supply of gas to the site is subject to a formal application to Jemena. In this instance, we anticipate no major constraints associated with the provision of gas. Any developer contributions are likely to be minimal.

Potable water is located adjacent to the site, and is considered to be sufficient for the anticipated site requirements. The costs associated with accessing the potable water are considered minimal. Additional firefighting services may be required.

Sewer infrastructure is available to service the site. It is considered that a Sewer augmentation will be required to cater for the site demand. Confirmation will be required by Sydney Water.

NBN Co has indicated that the site is within its planned fibre footprint. Application will need to be made formally through NBN Co.

Yours faithfully For BG&E Pty Limited

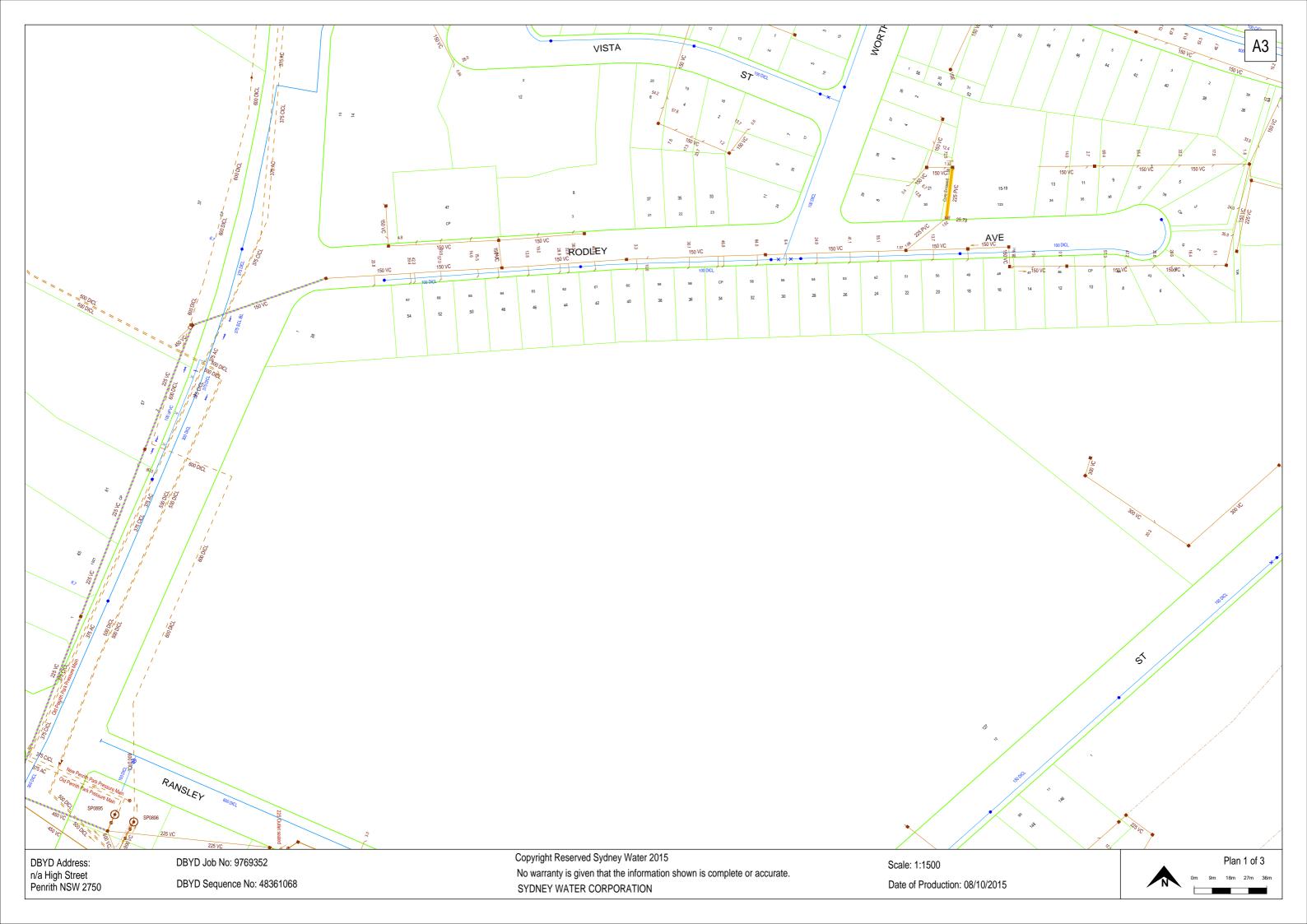
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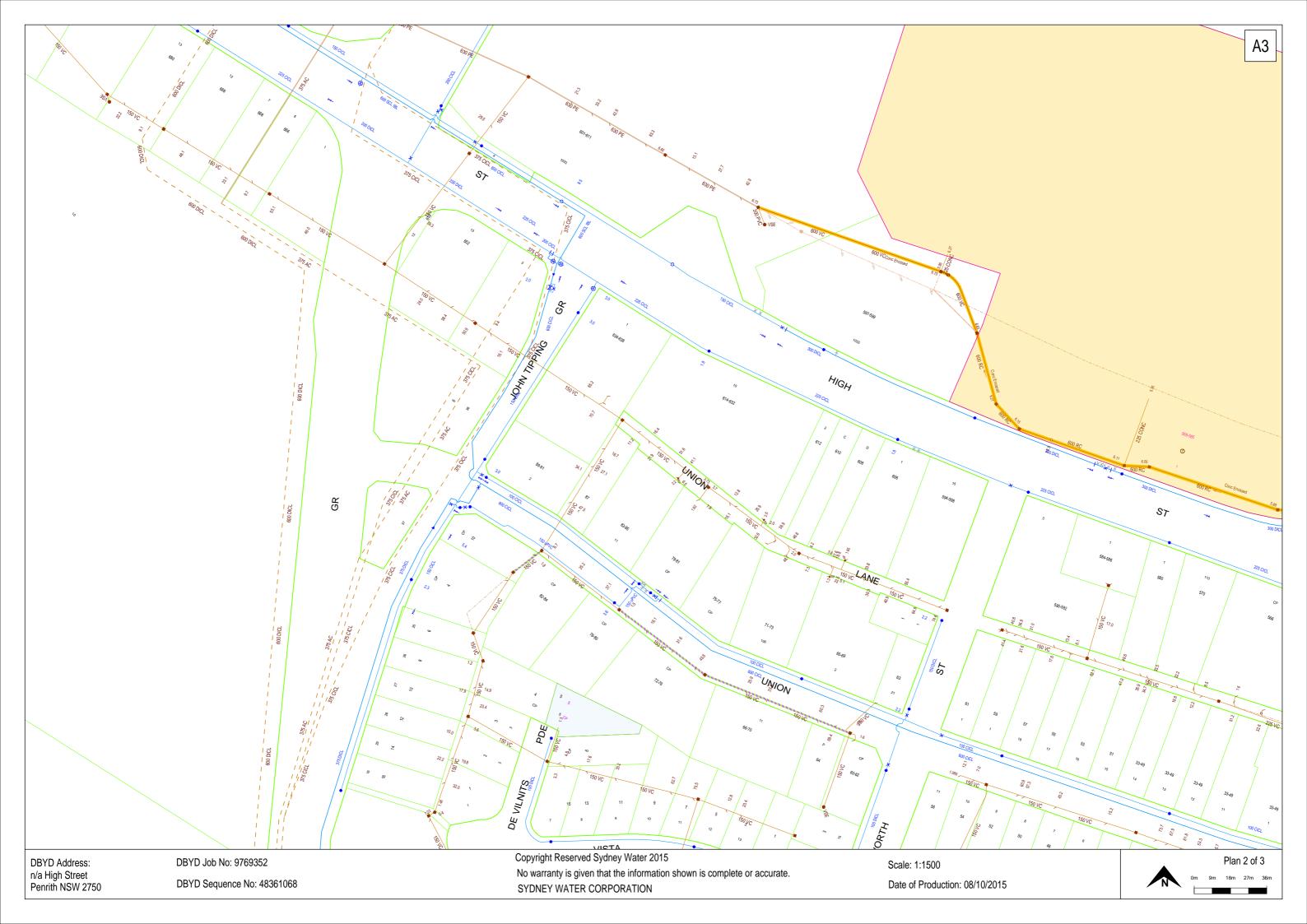
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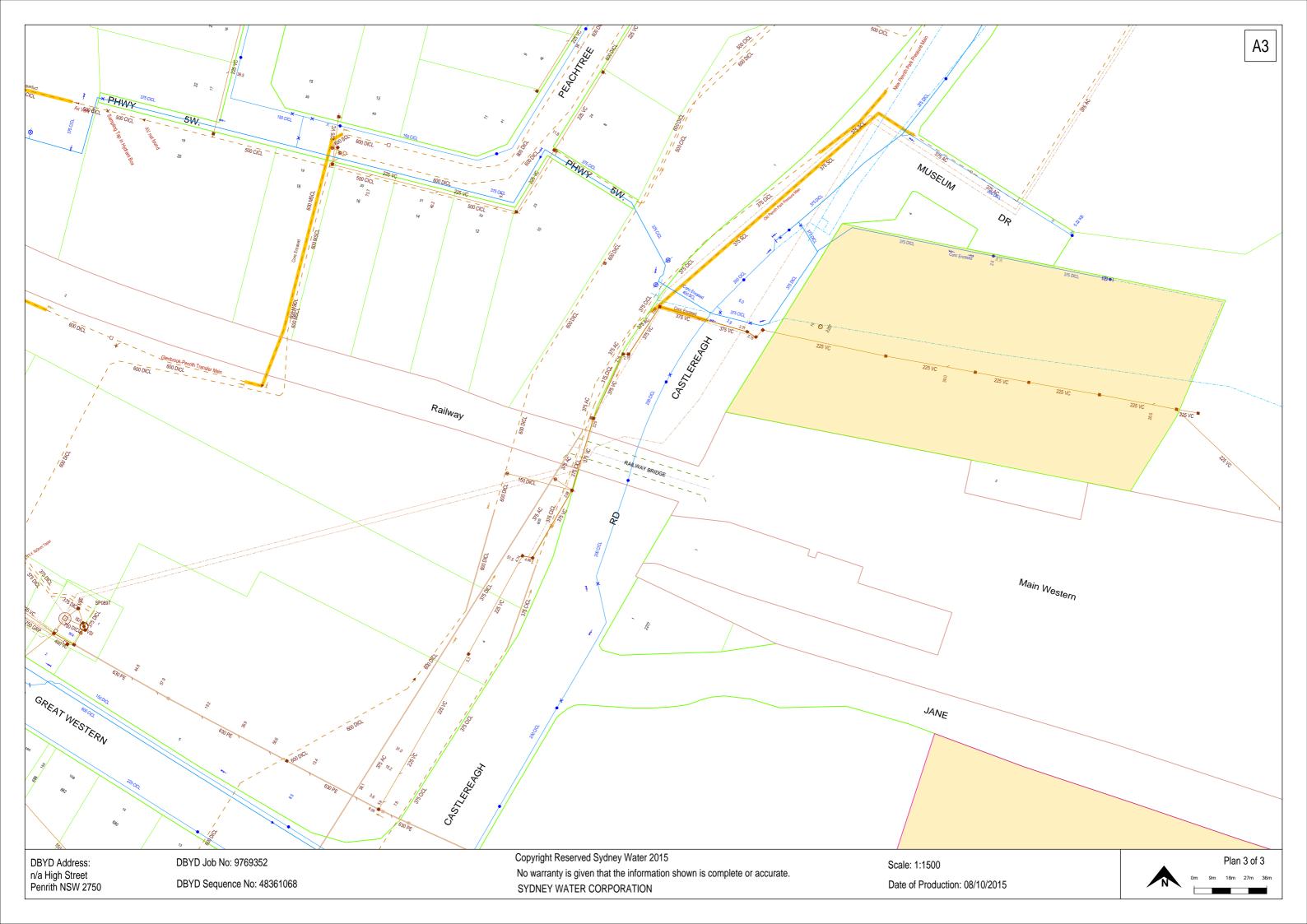
- 1. Sydney Water
- 2. Electrical Infrastructure
- 3. Telecommunications
- 4. Gas
- 5. Other Misc DBYD responses



# 1. SYDNEY WATER

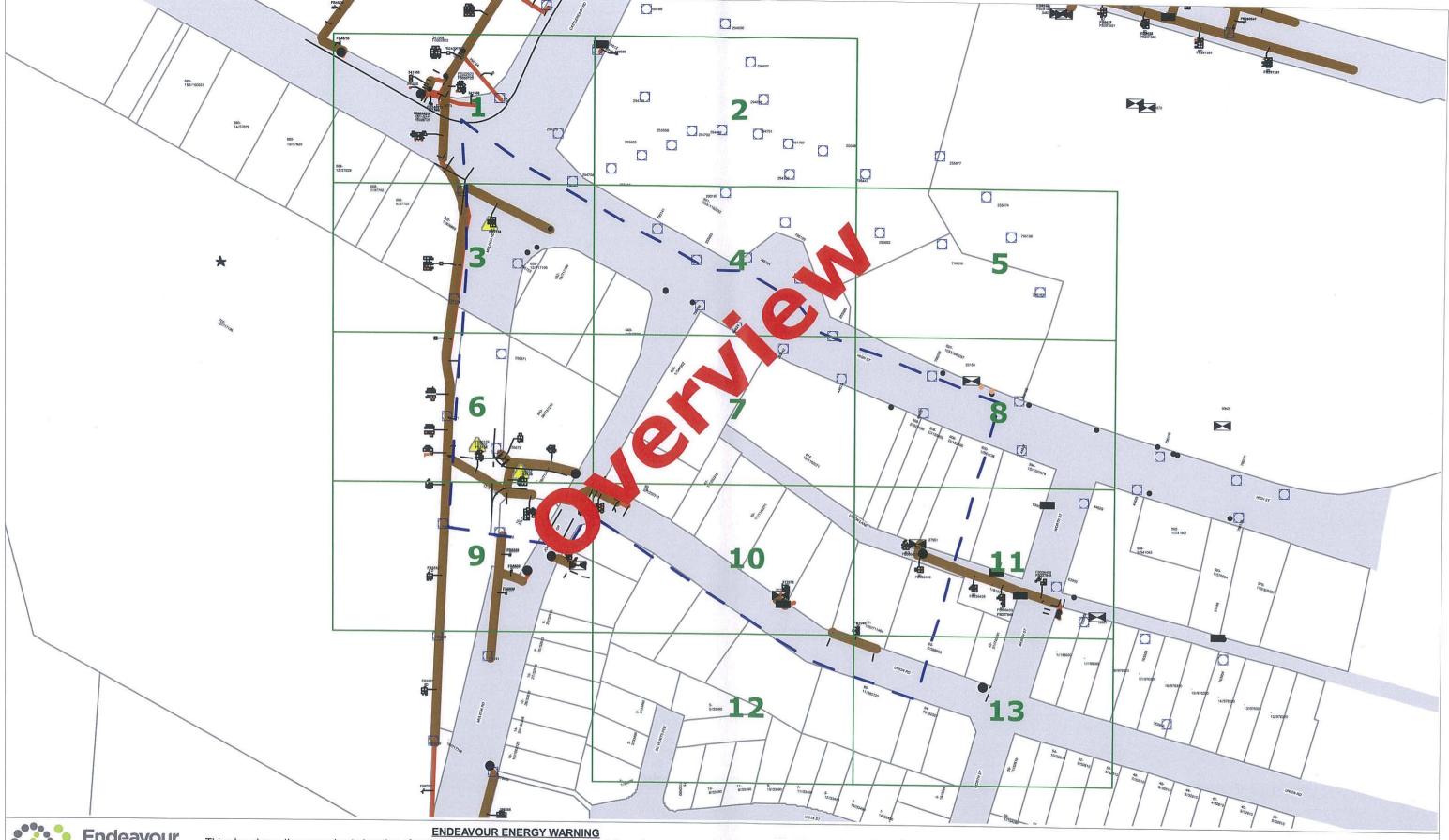








# 2. ELECTRICAL INFRASTRUCTURE







ENDEAVOUR ENERGY WARNING

This plan shows the approximate location of underground cables relative to fixtures existing when the cables were laid, and has been prepared solely for Endeavour Energy's own use. Endeavour Energy has taken all reasonable steps to ensure that the information is accurate as possible but will accept no liability for inaccuracies in the information shown on such plans from any cause whatsoever arising. Persons excavating are expected to exercise all due care in the vicinity where cables are indicated and will be held responsible for any damage caused to Endeavour Energy's property.

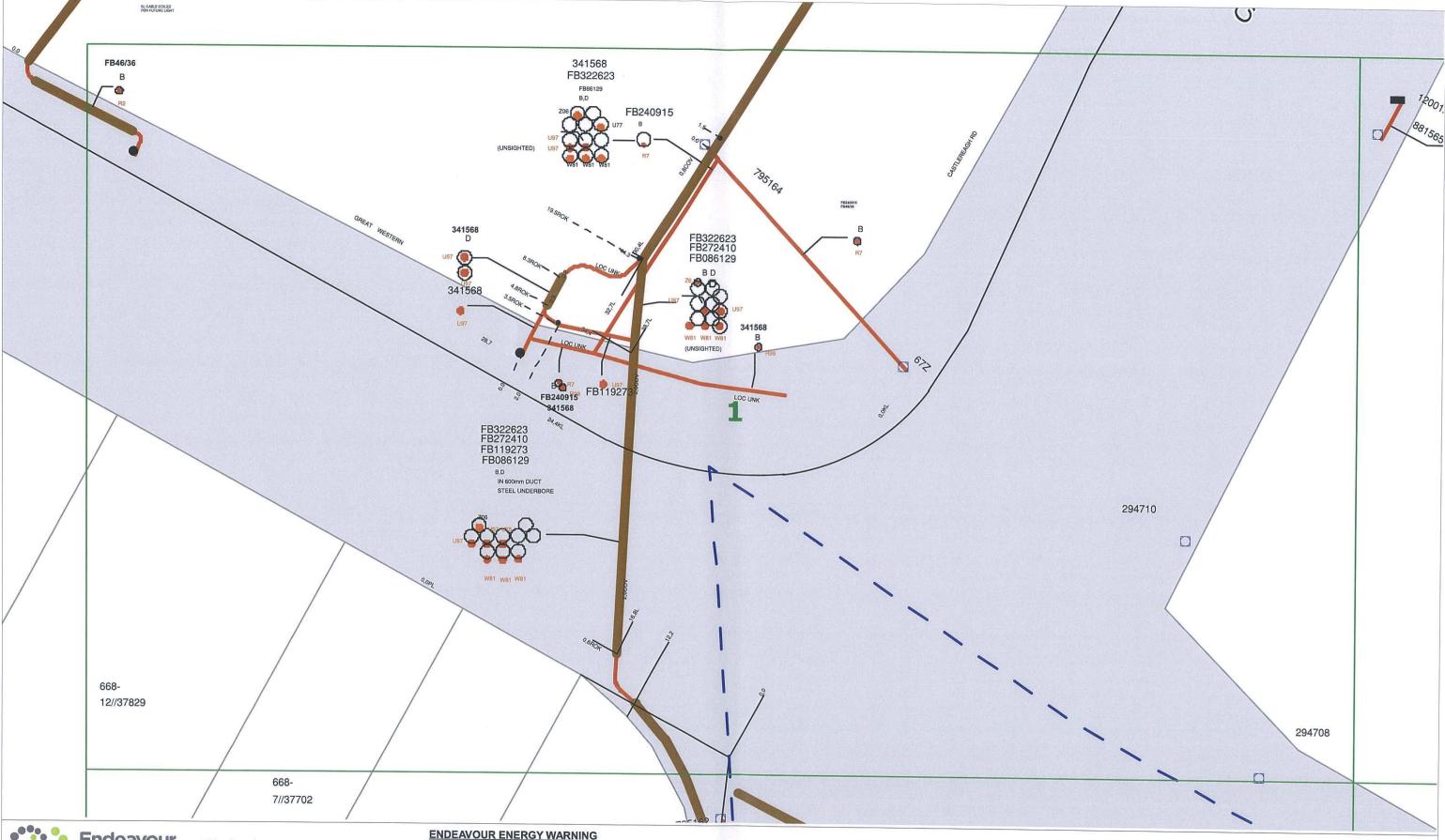
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Those excavating near Endeavour Energy's cables should be aware that **ASBESTOS OR ASBESTOS - CONTAINING MATERIAL MAY BE PRESENT** in Endeavour Energy's underground assets and that Organo-Chloride Pesticides(OCP) may be present in some subtransmission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

## WARNING



DBYD Sequence Number:	47660360	
Issued Date:	02/09/2015	





WARNING

**ASBESTOS** 



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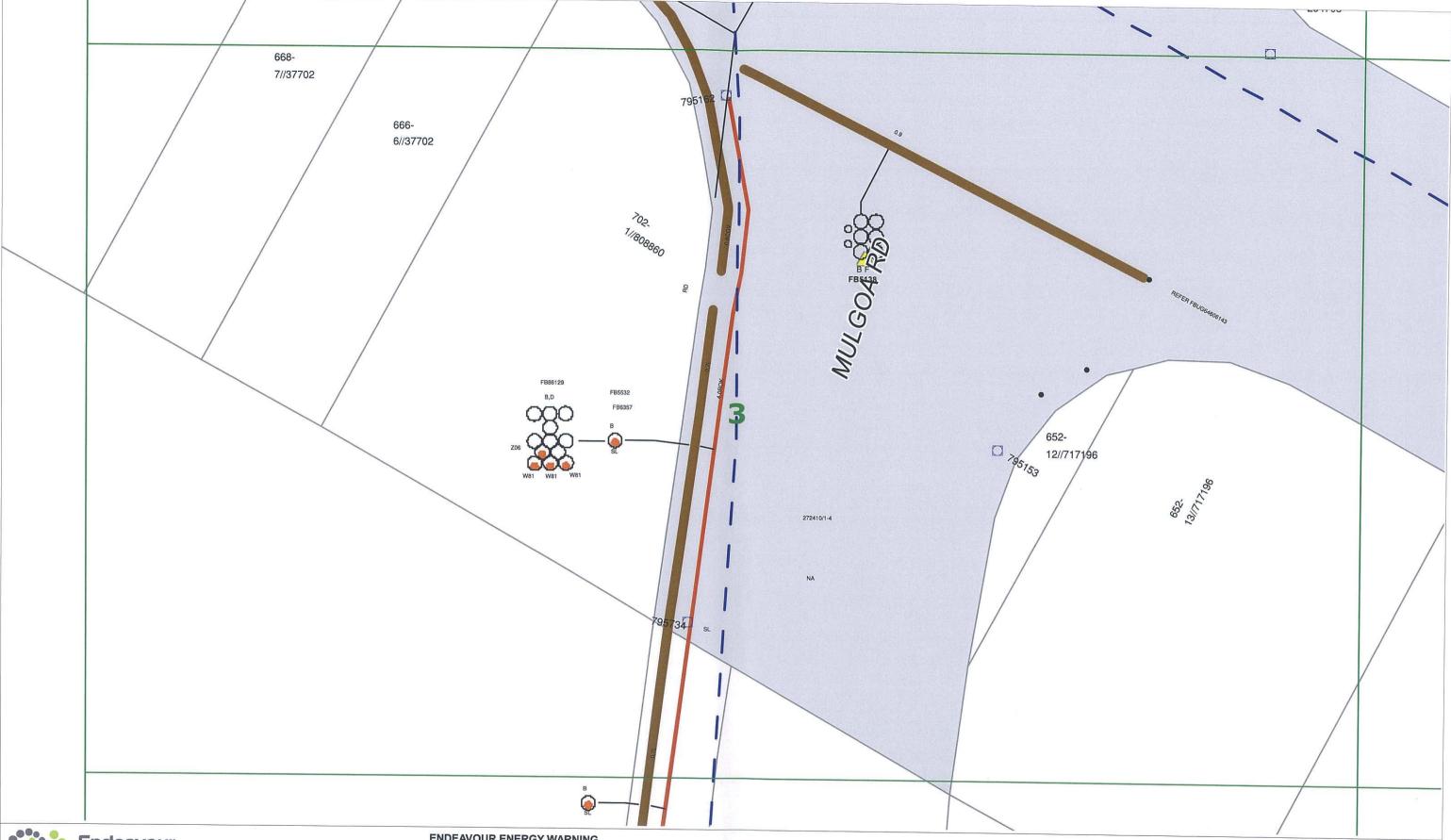
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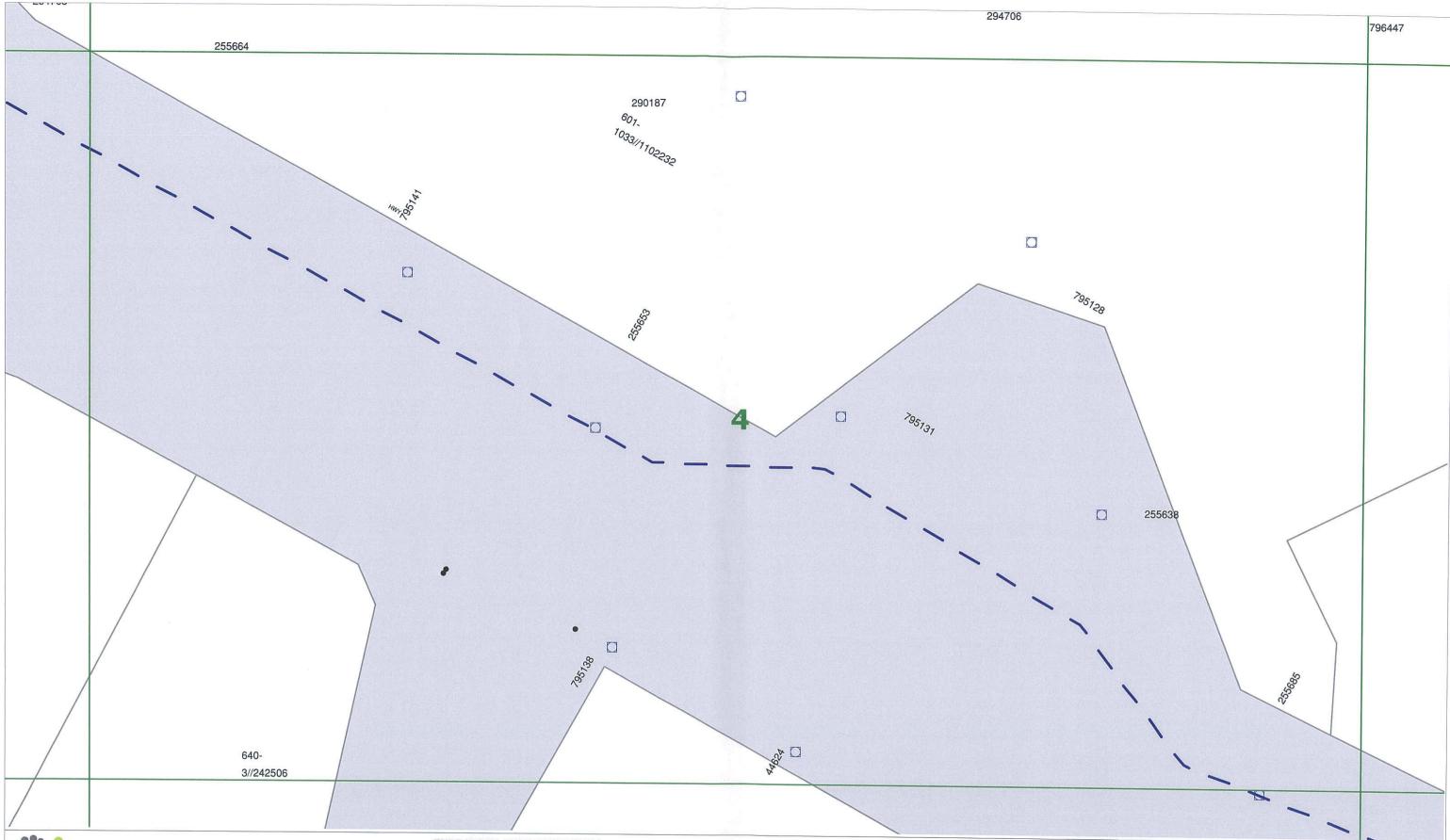
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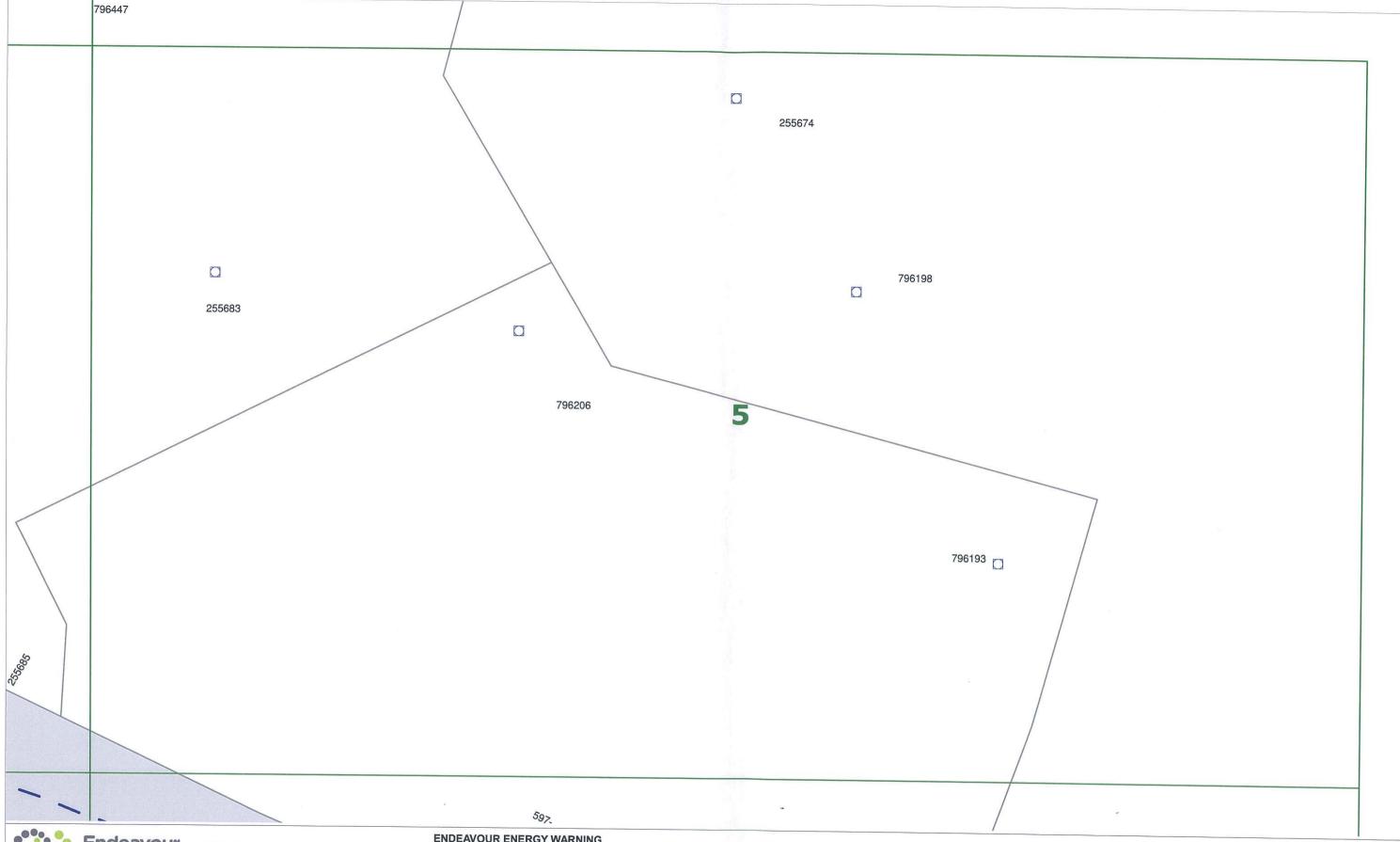
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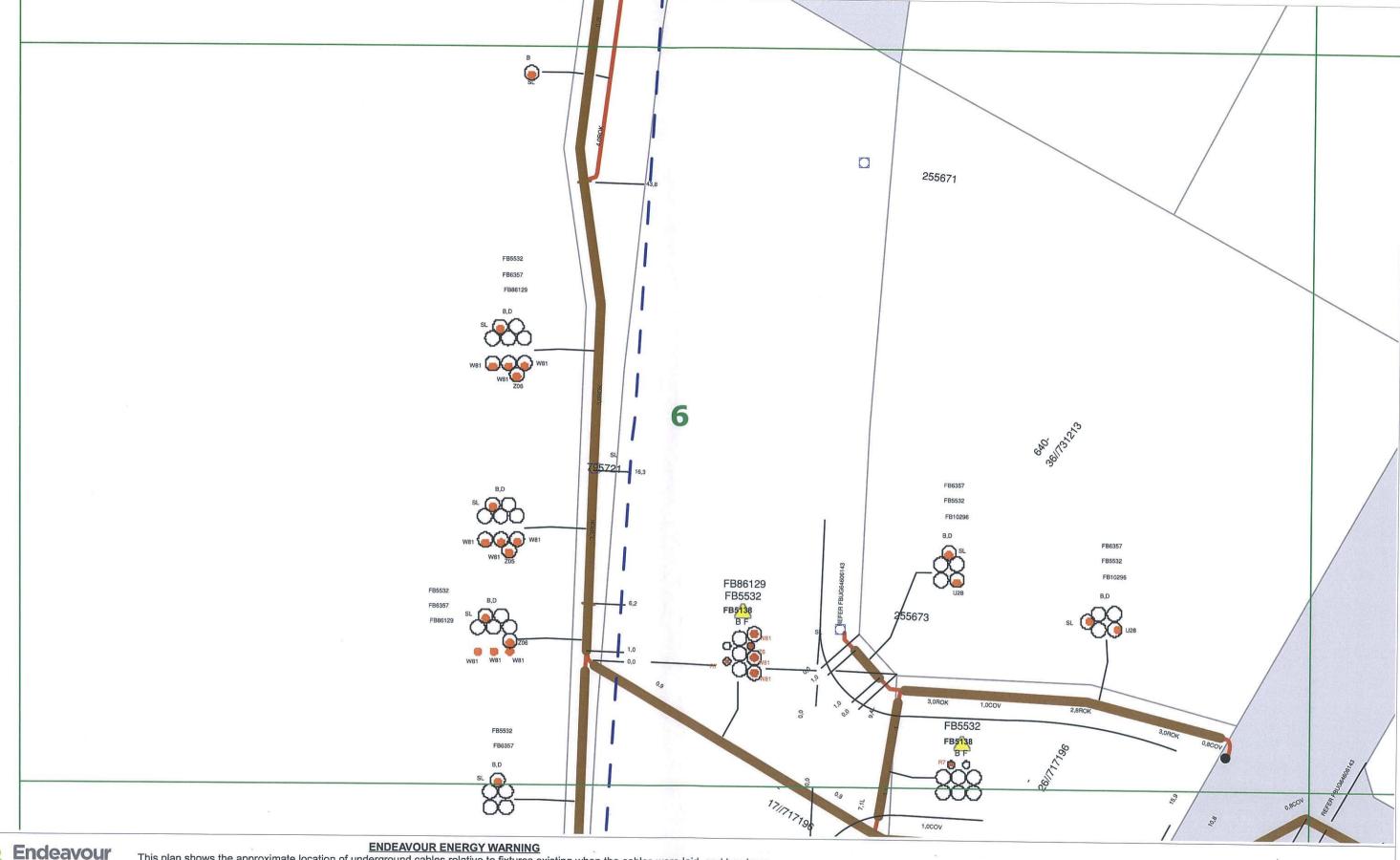
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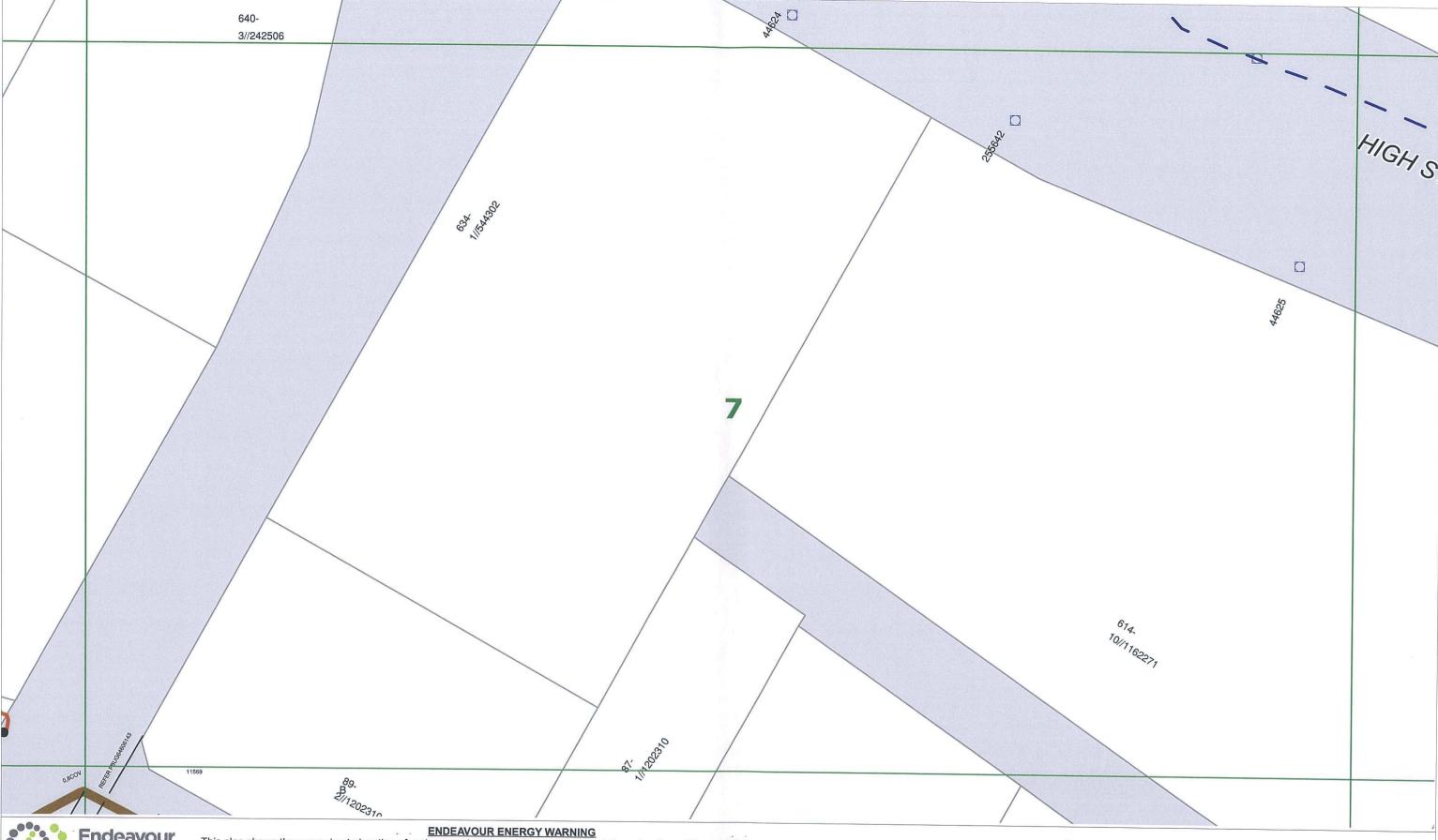
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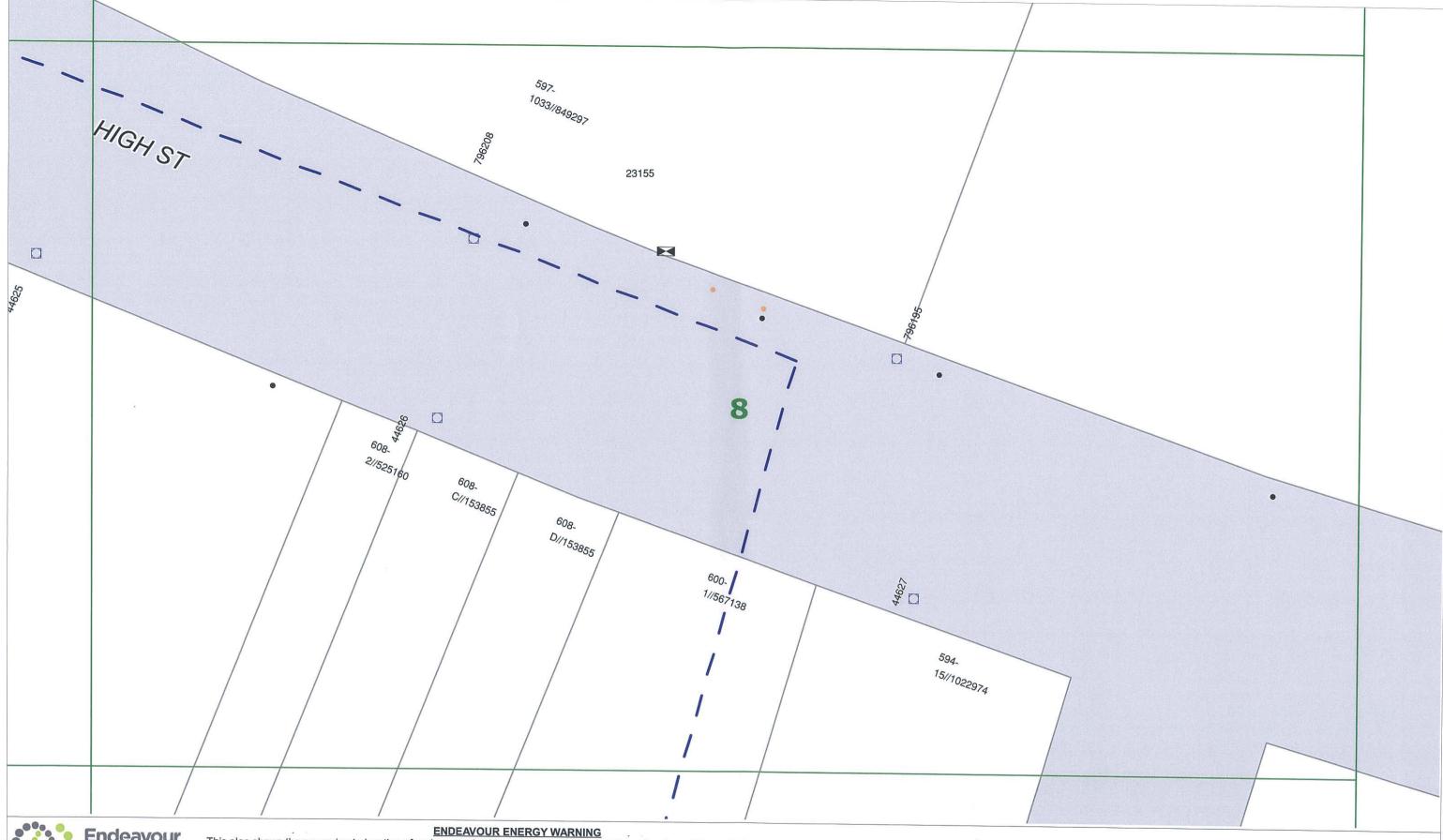
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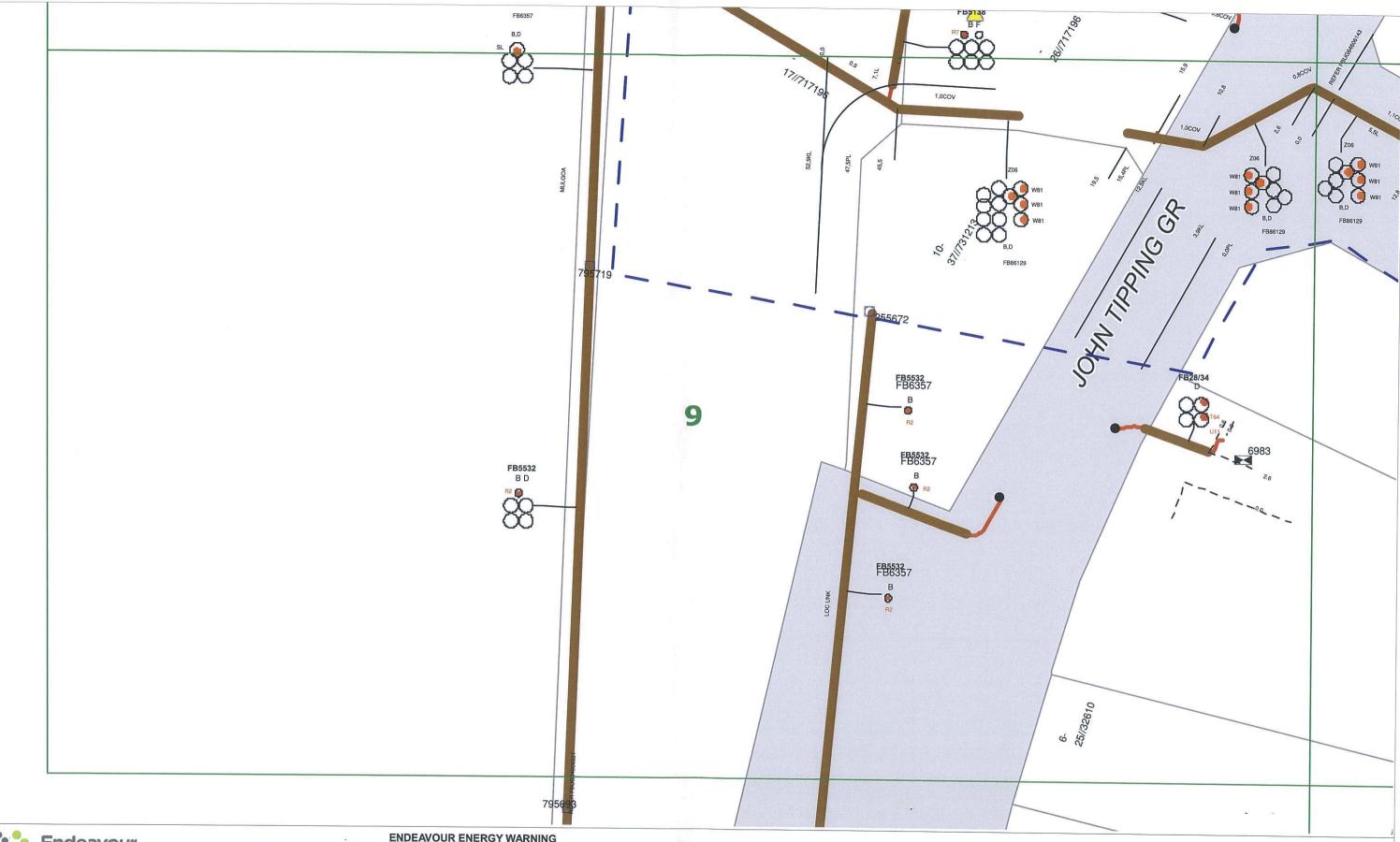
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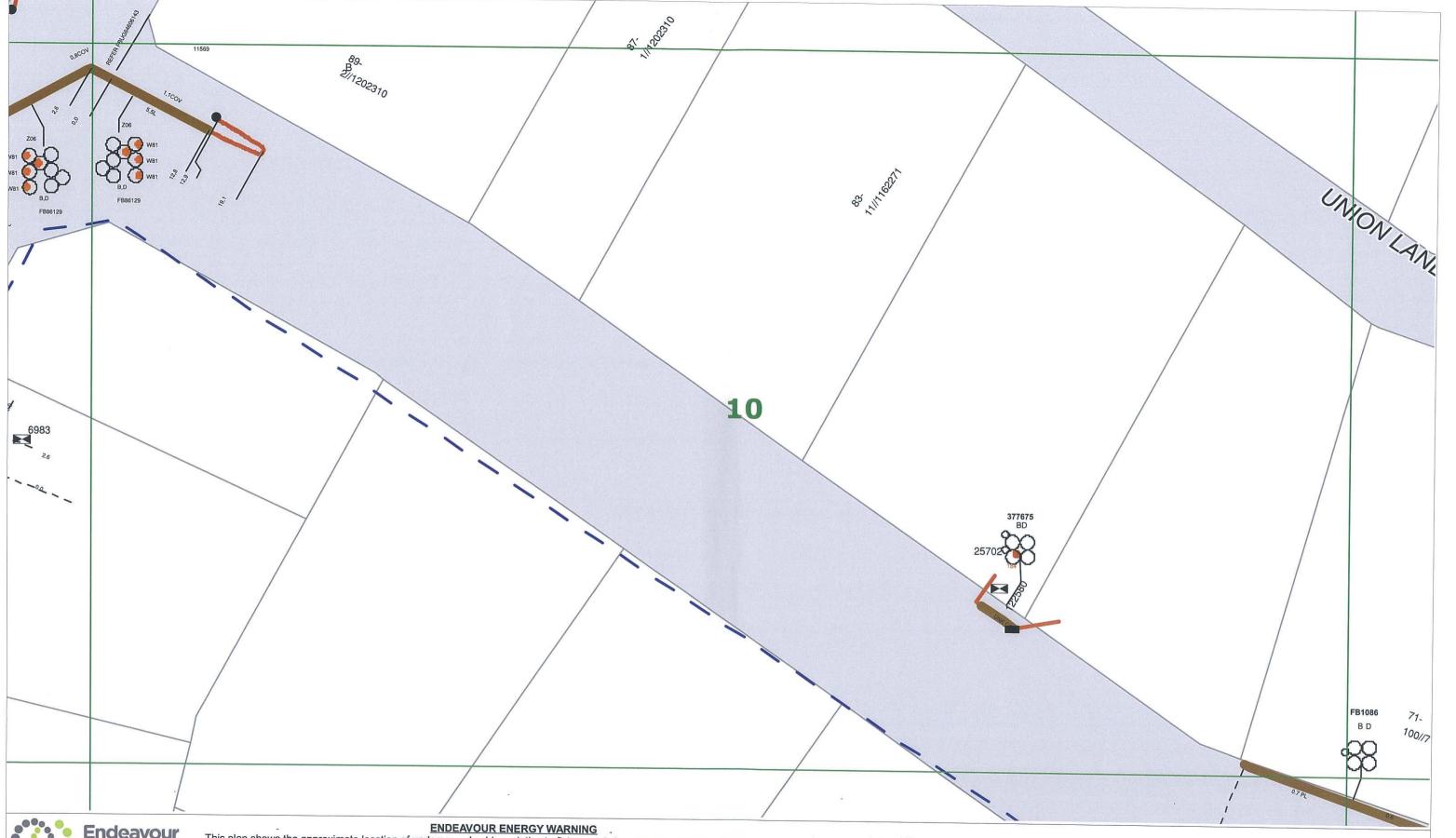
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**ASBESTOS** 

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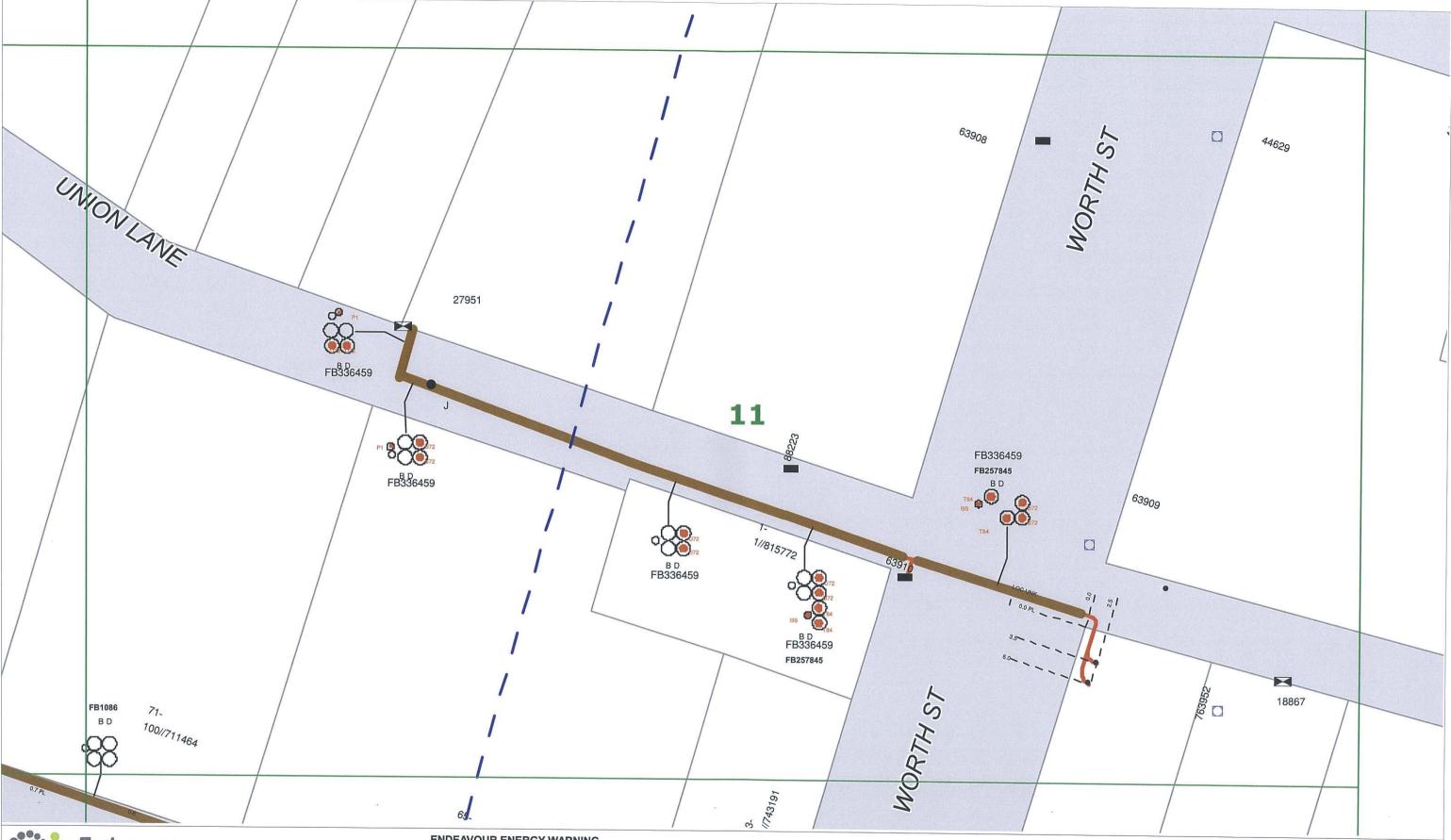
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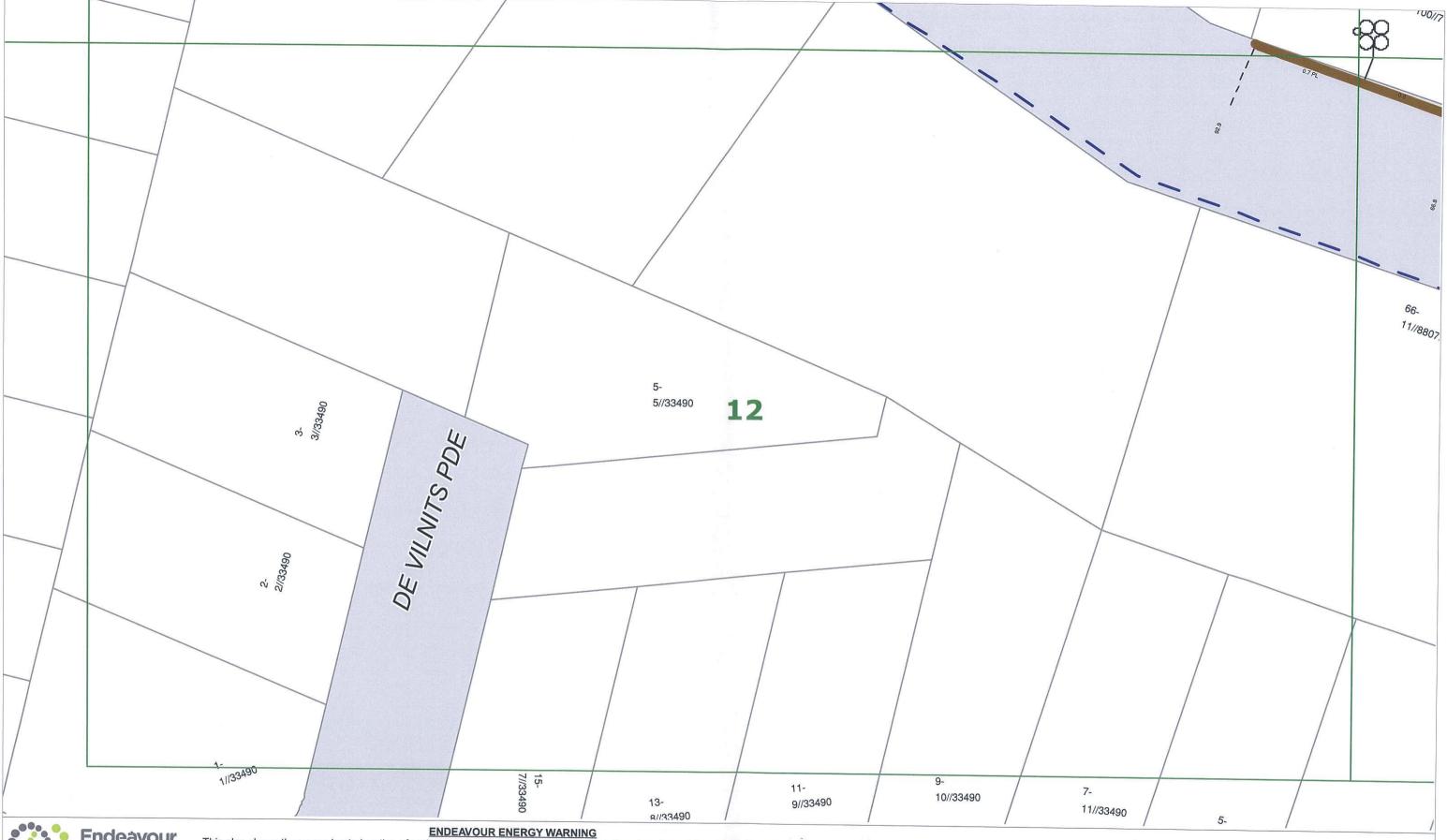


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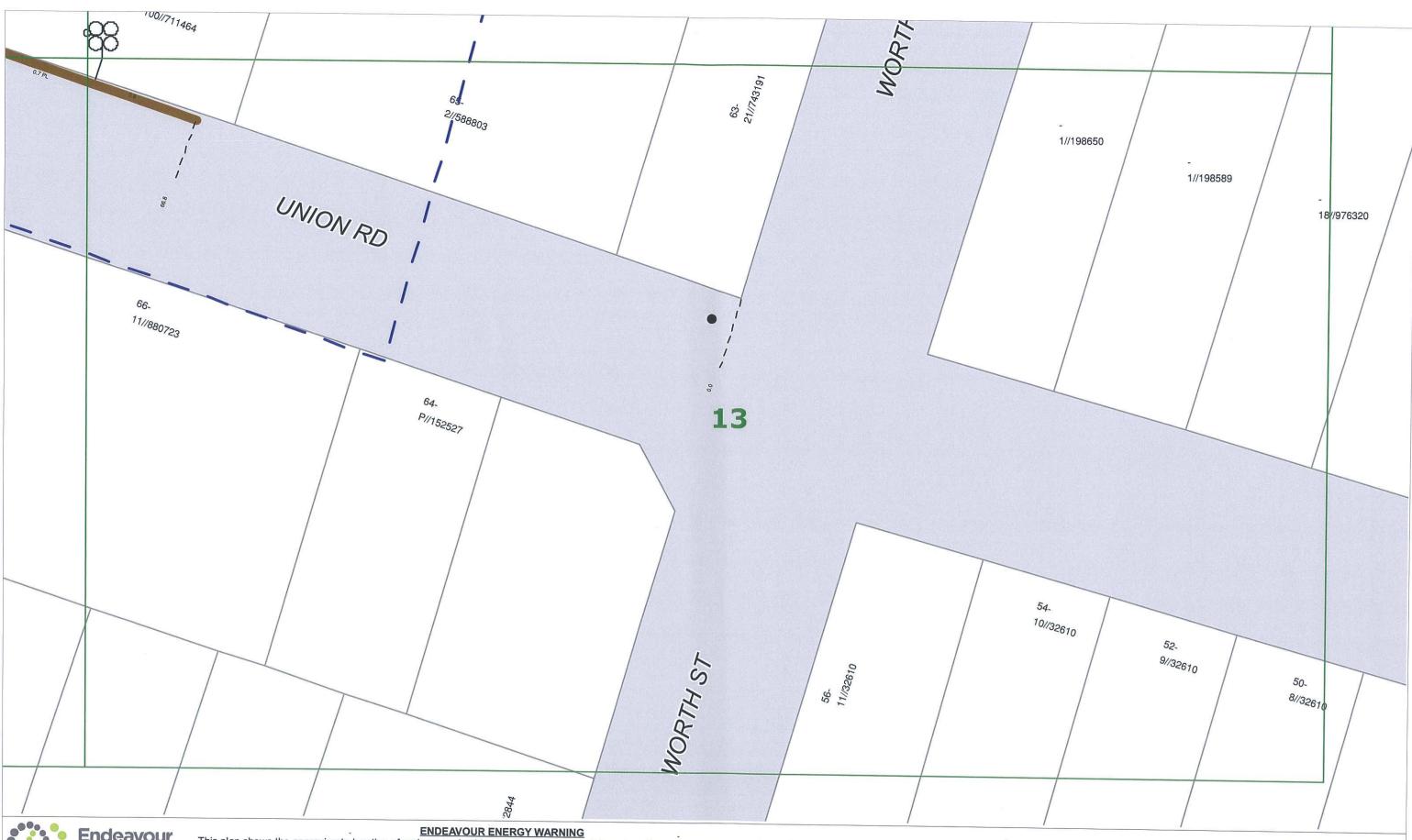
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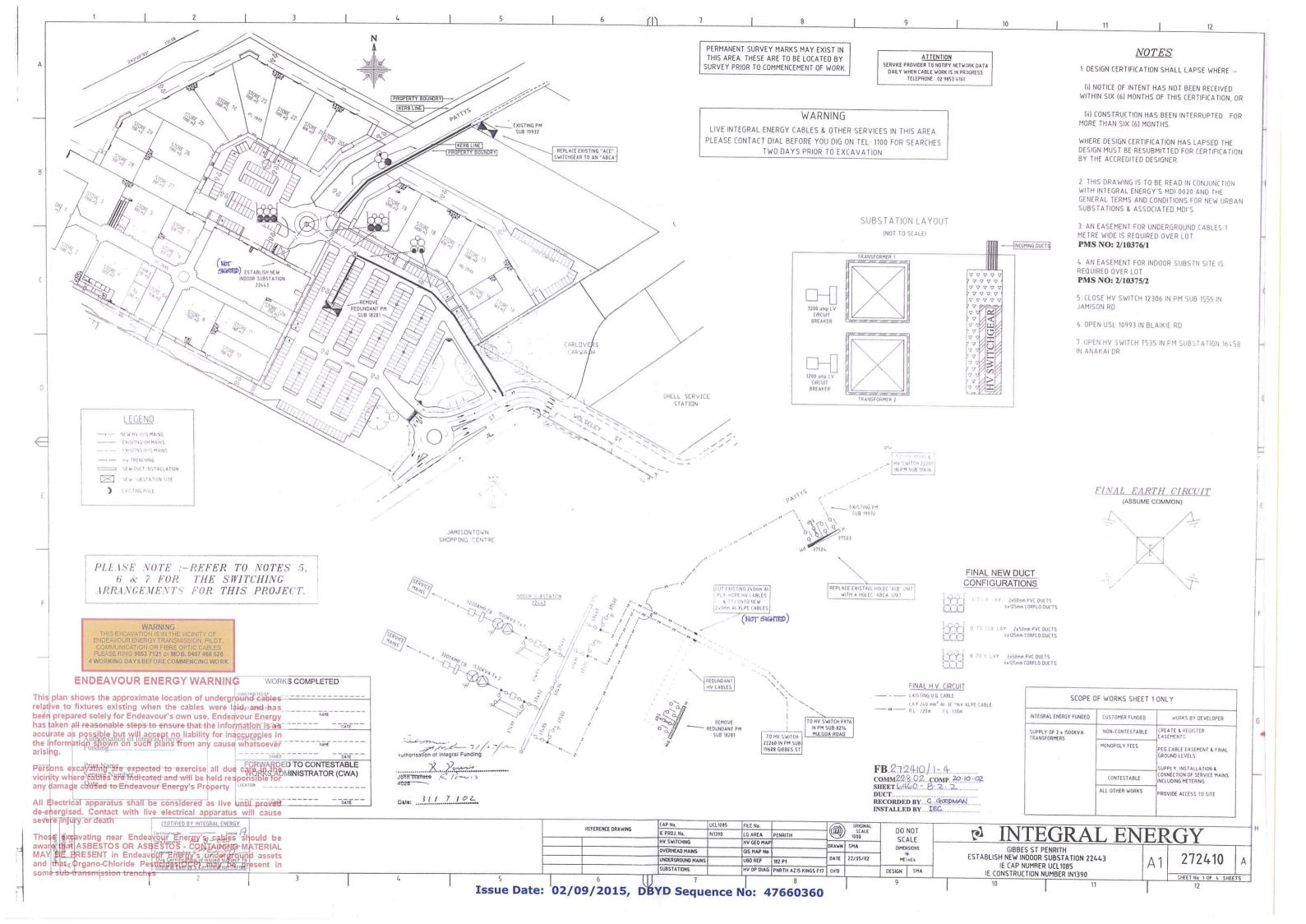
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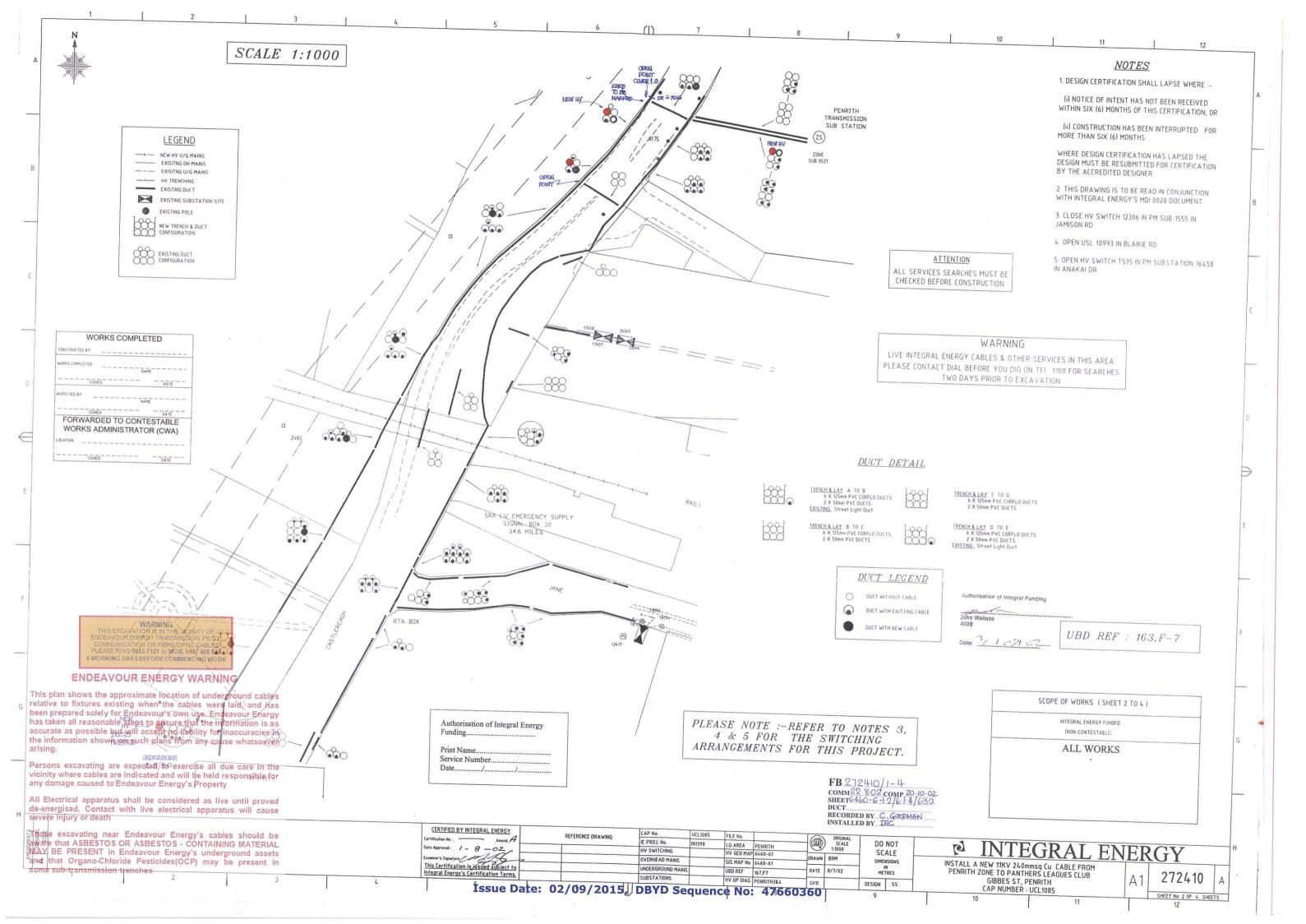
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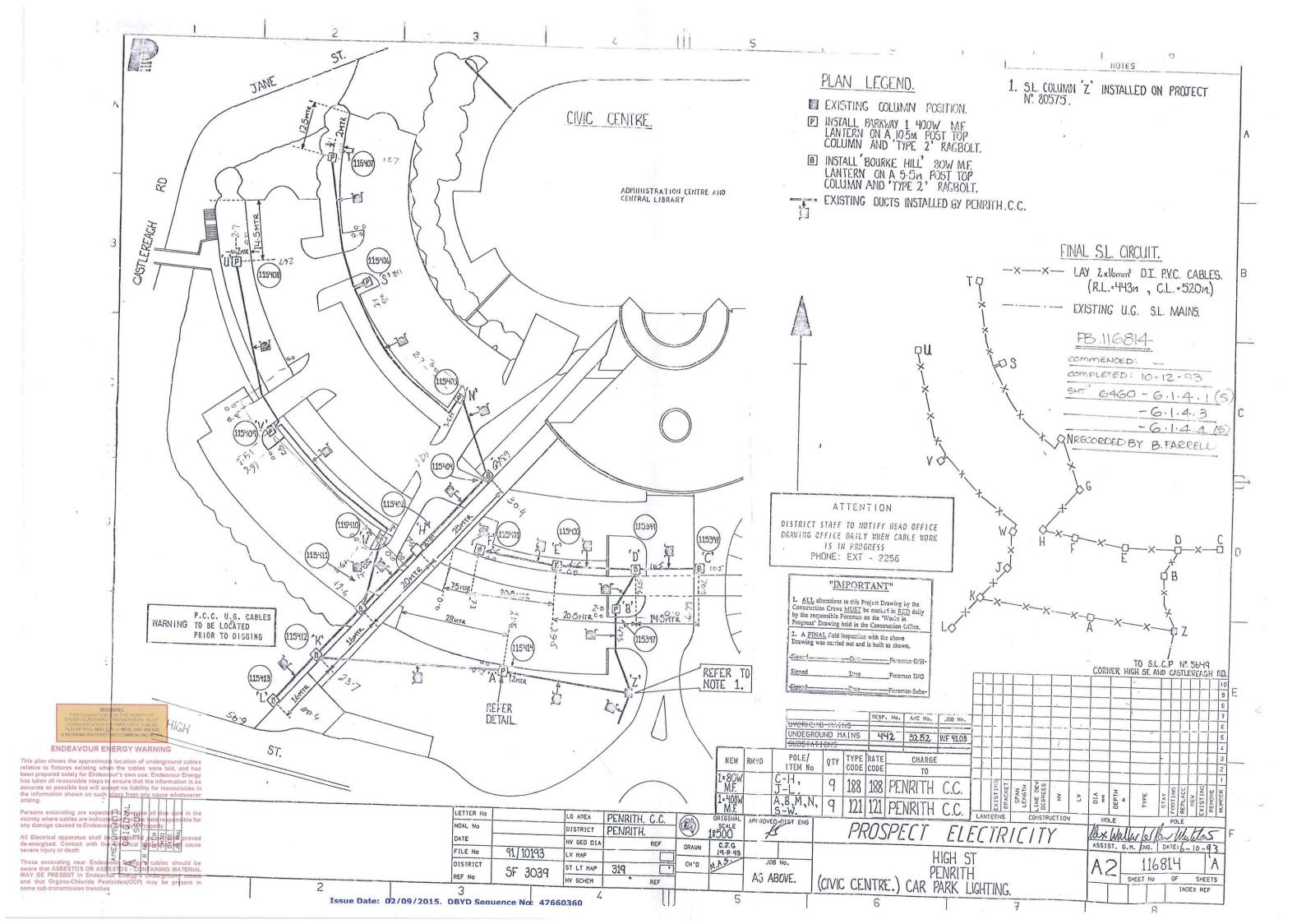
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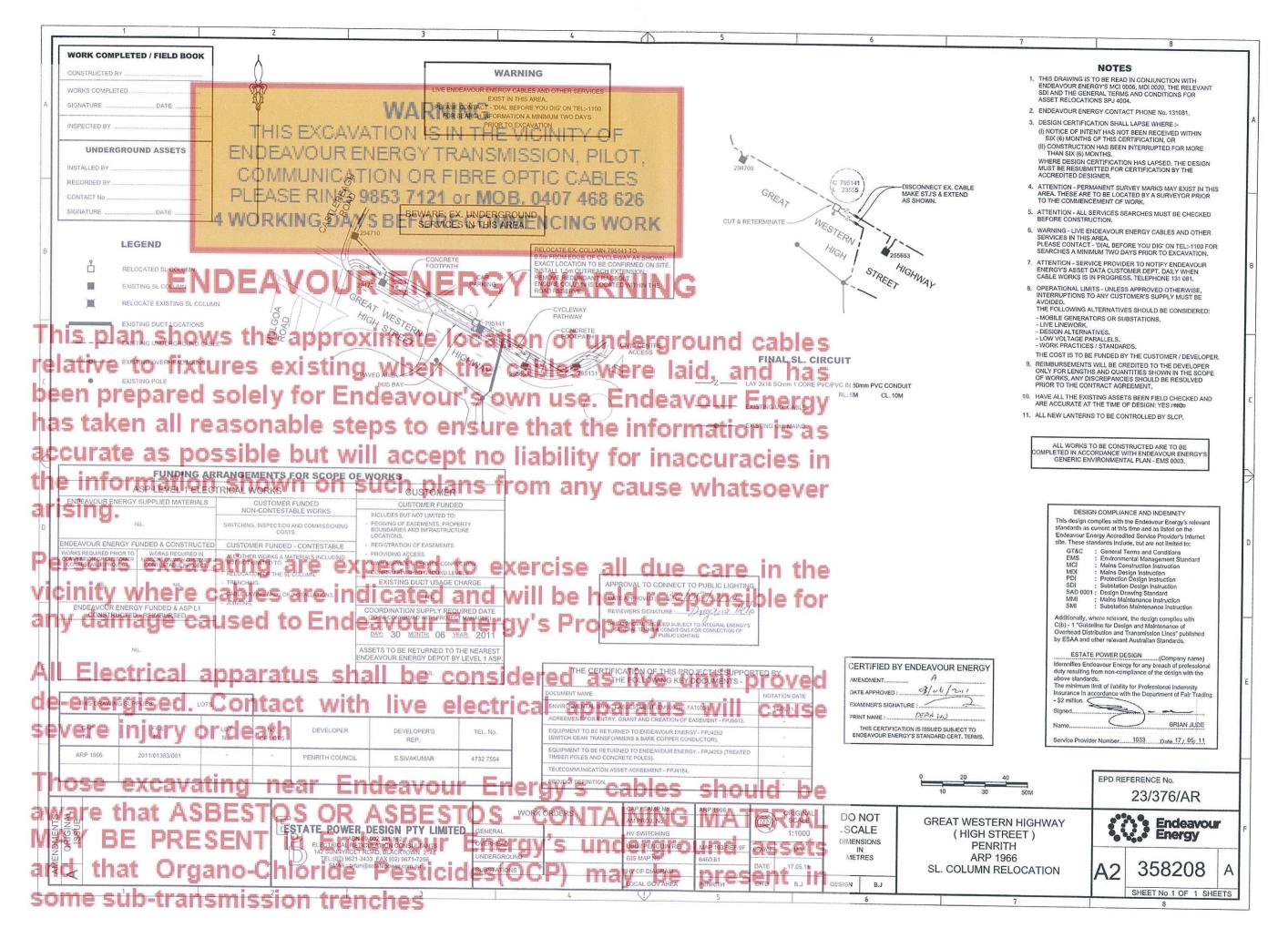


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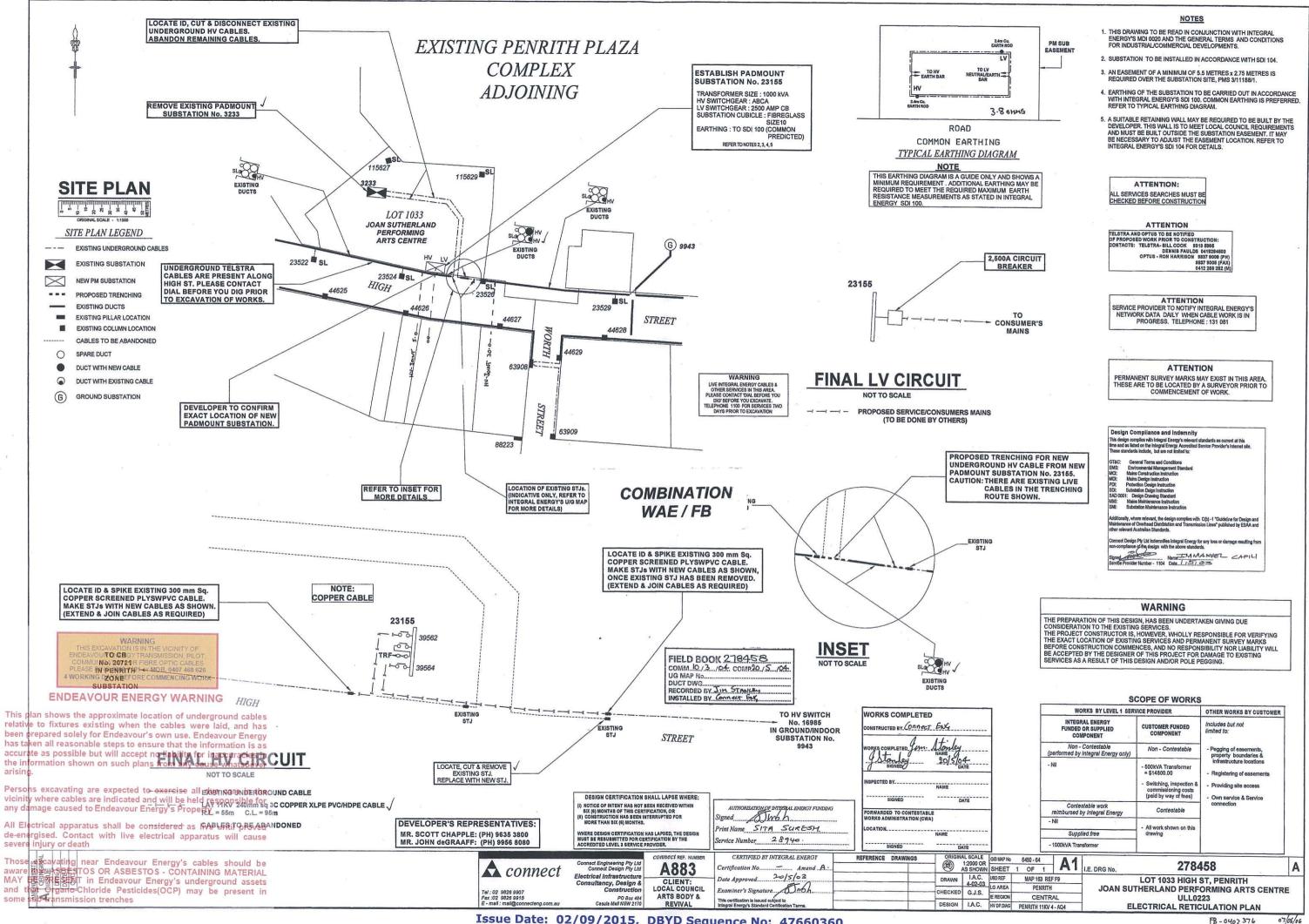


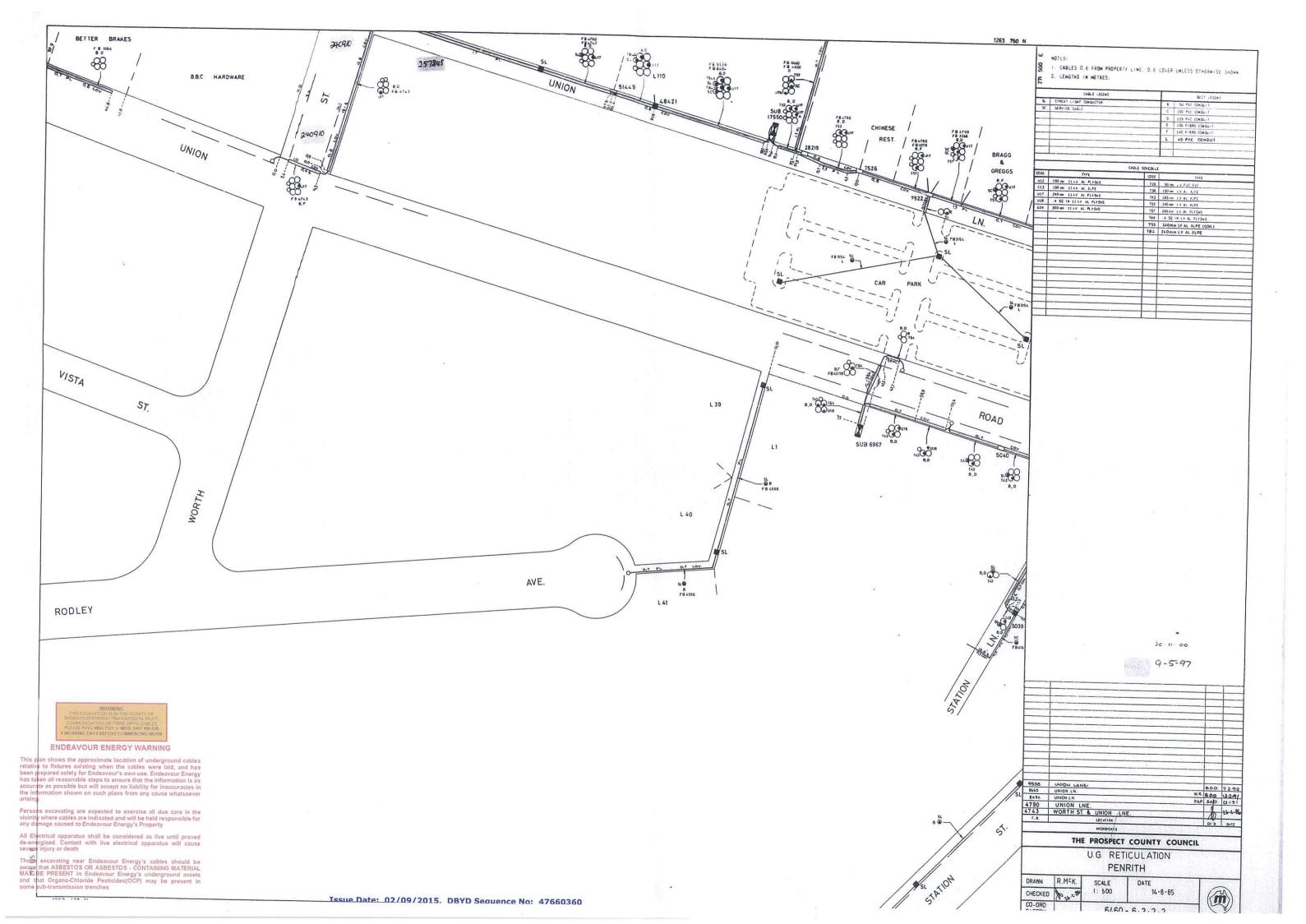




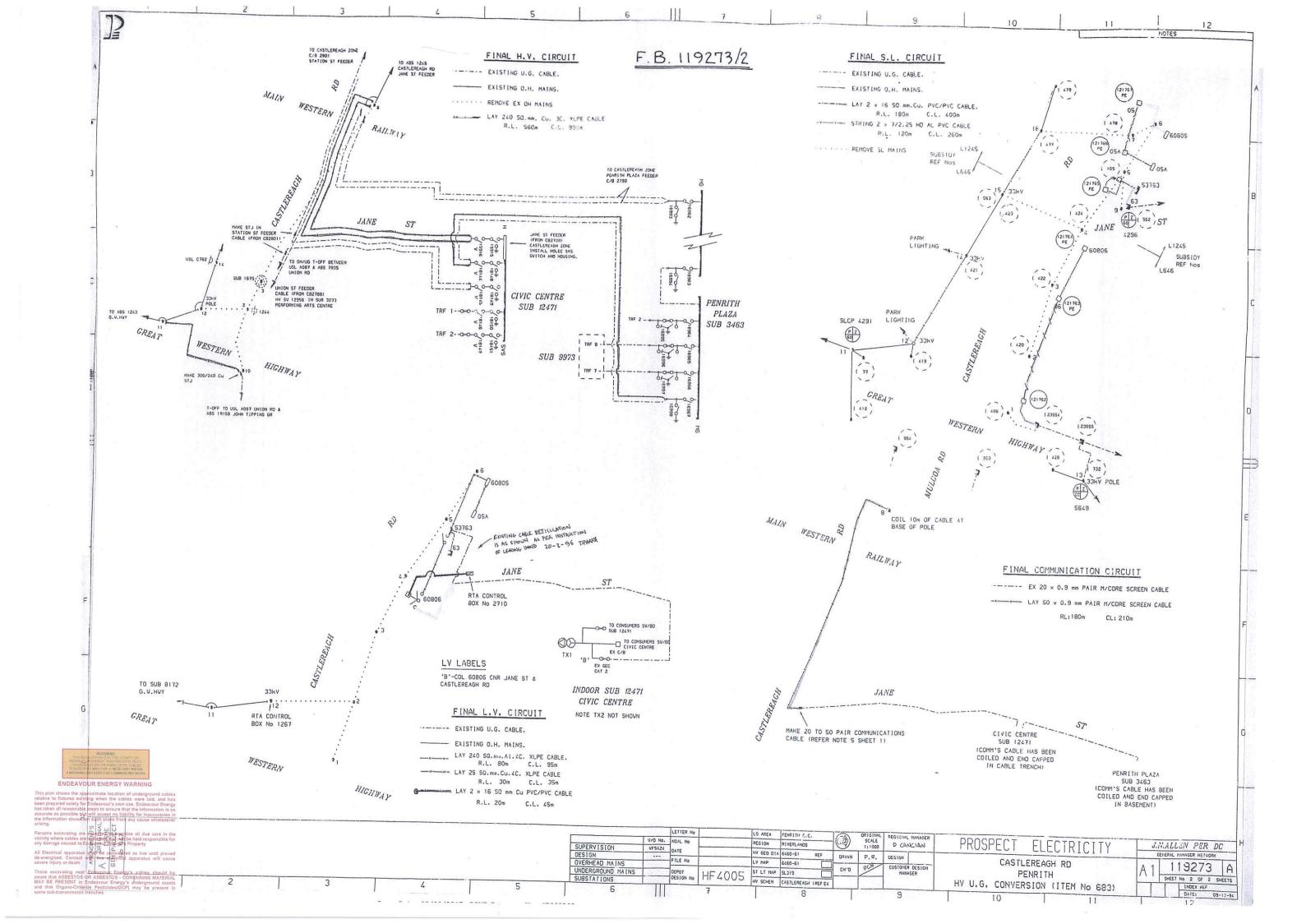


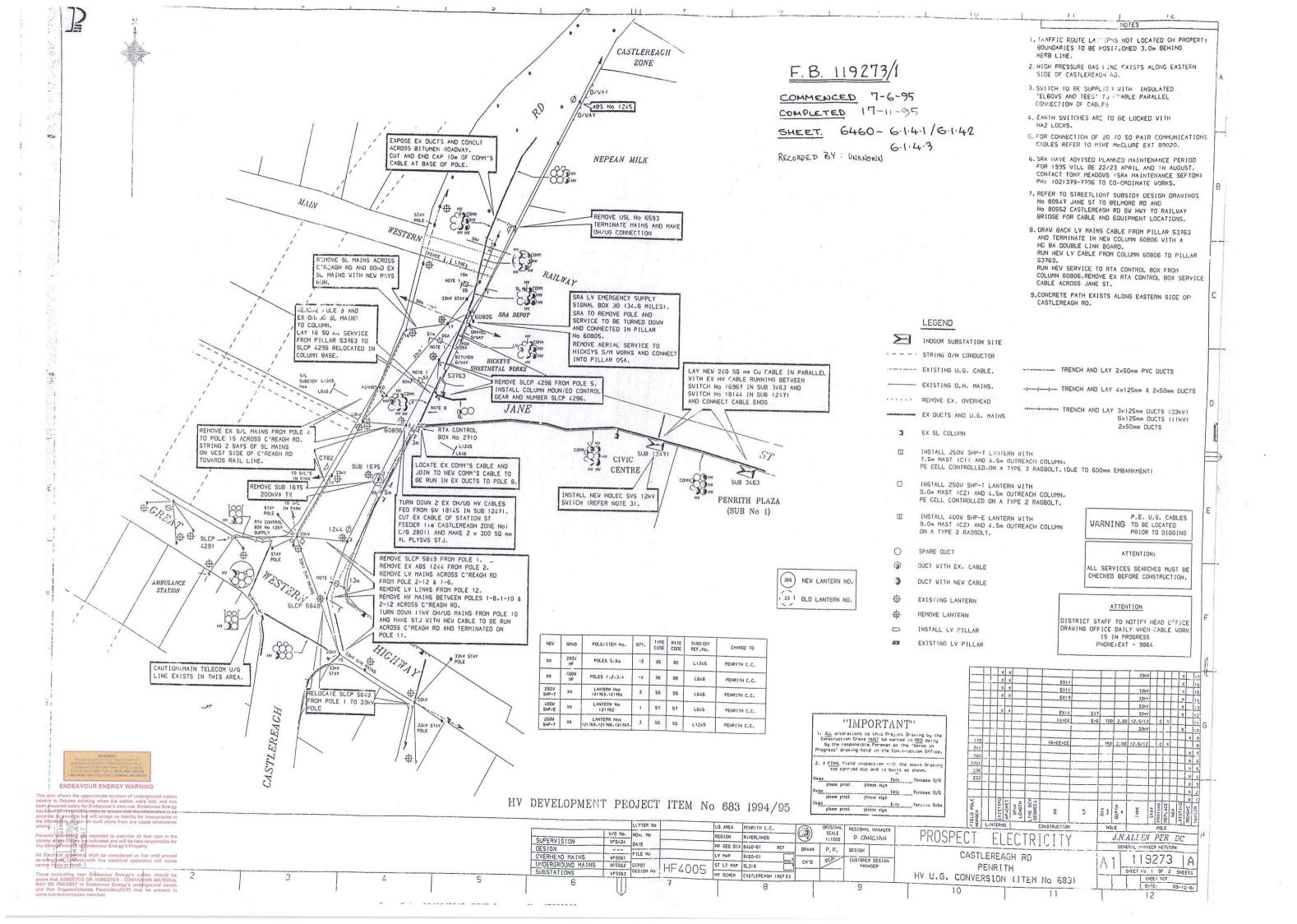
ue Date: 02/09/2015, DBYD Sequence No: 47660360

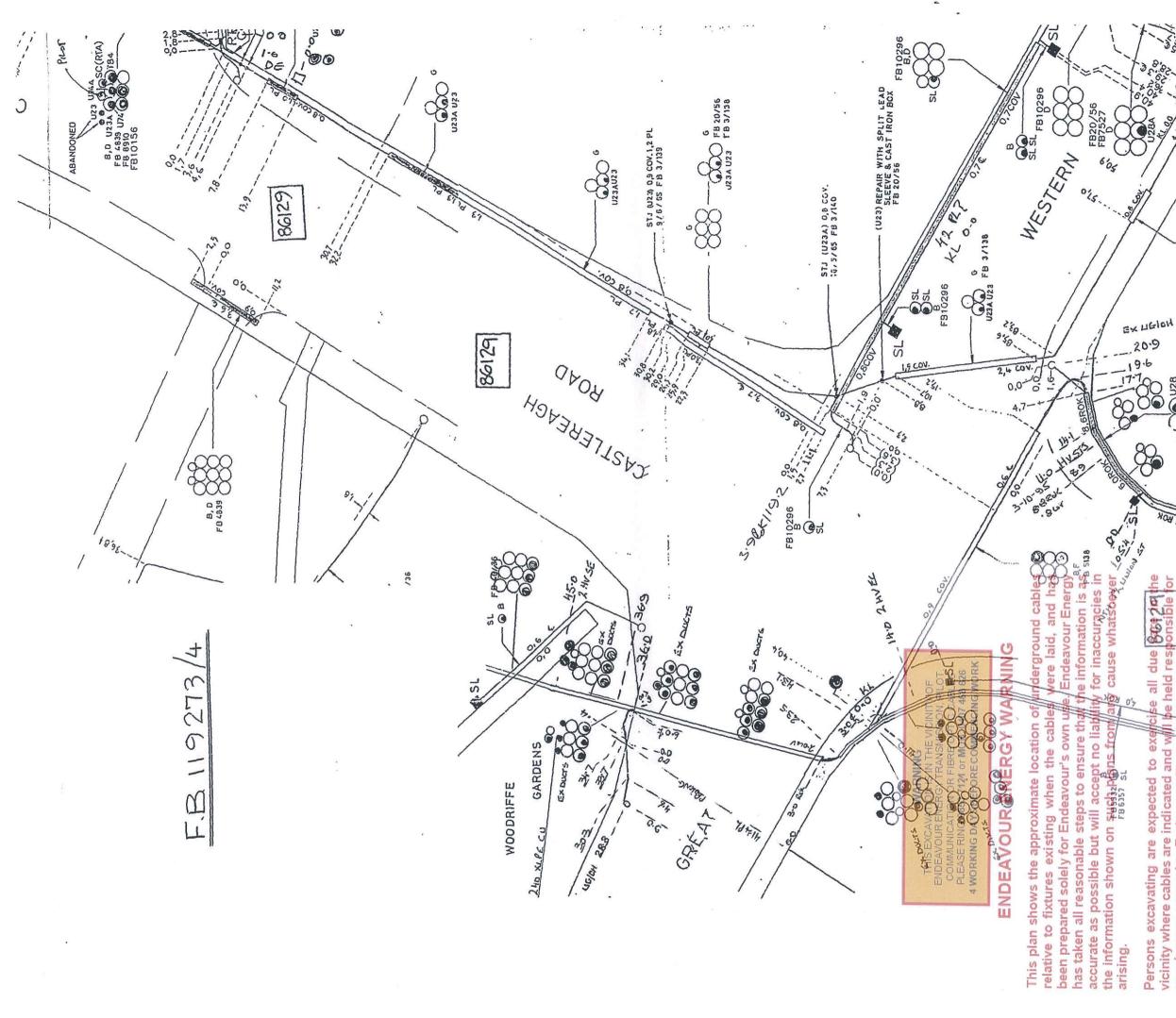








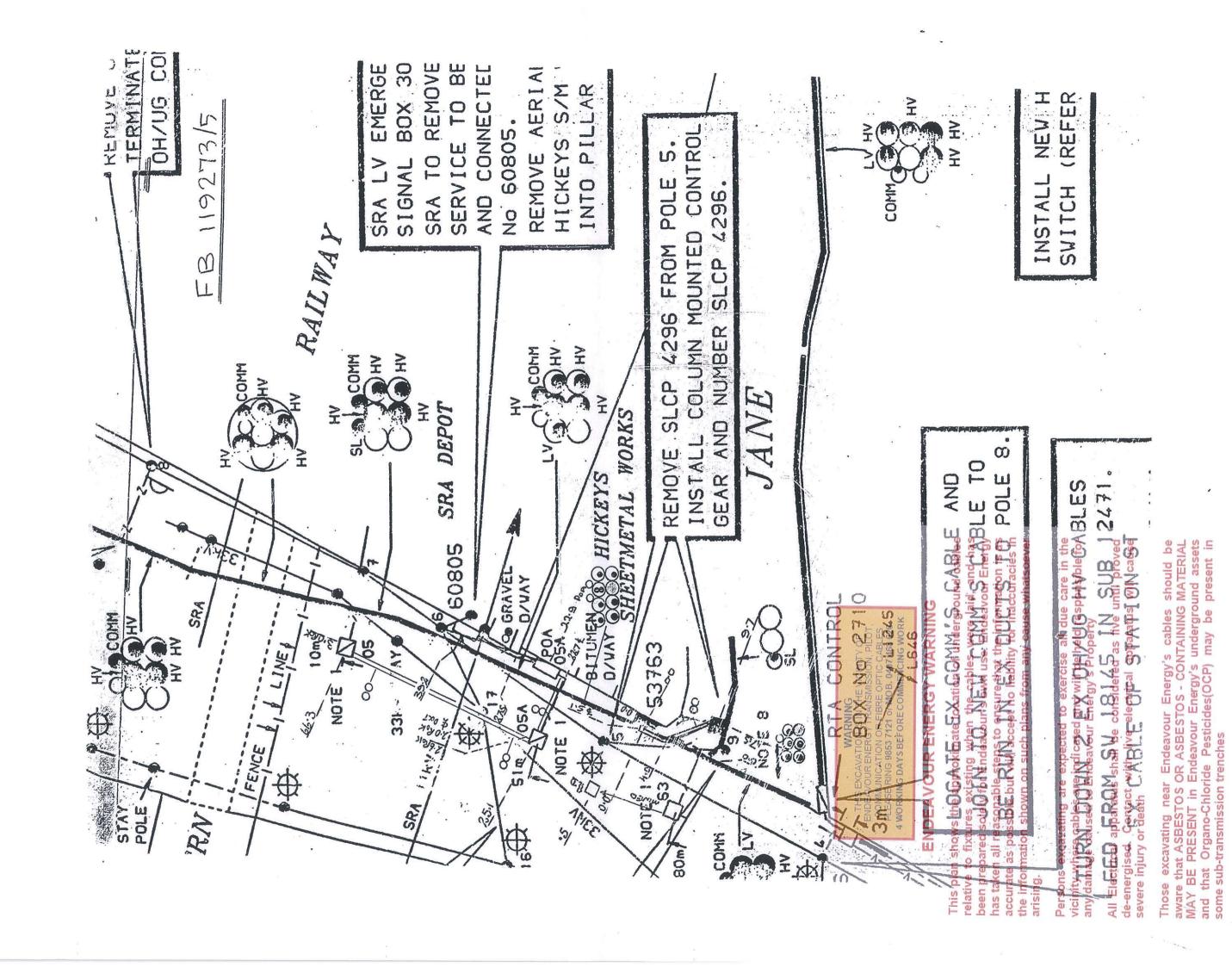


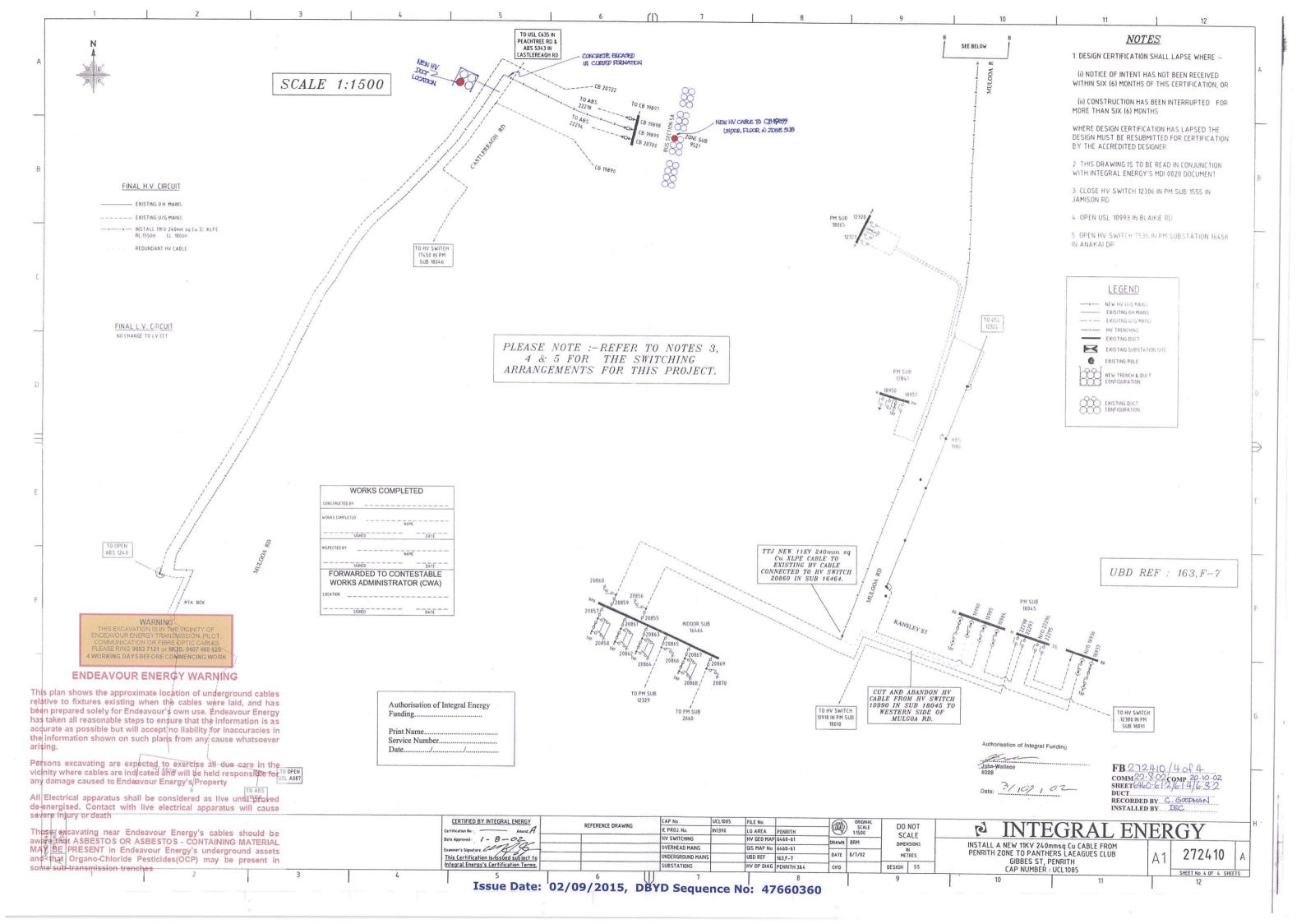


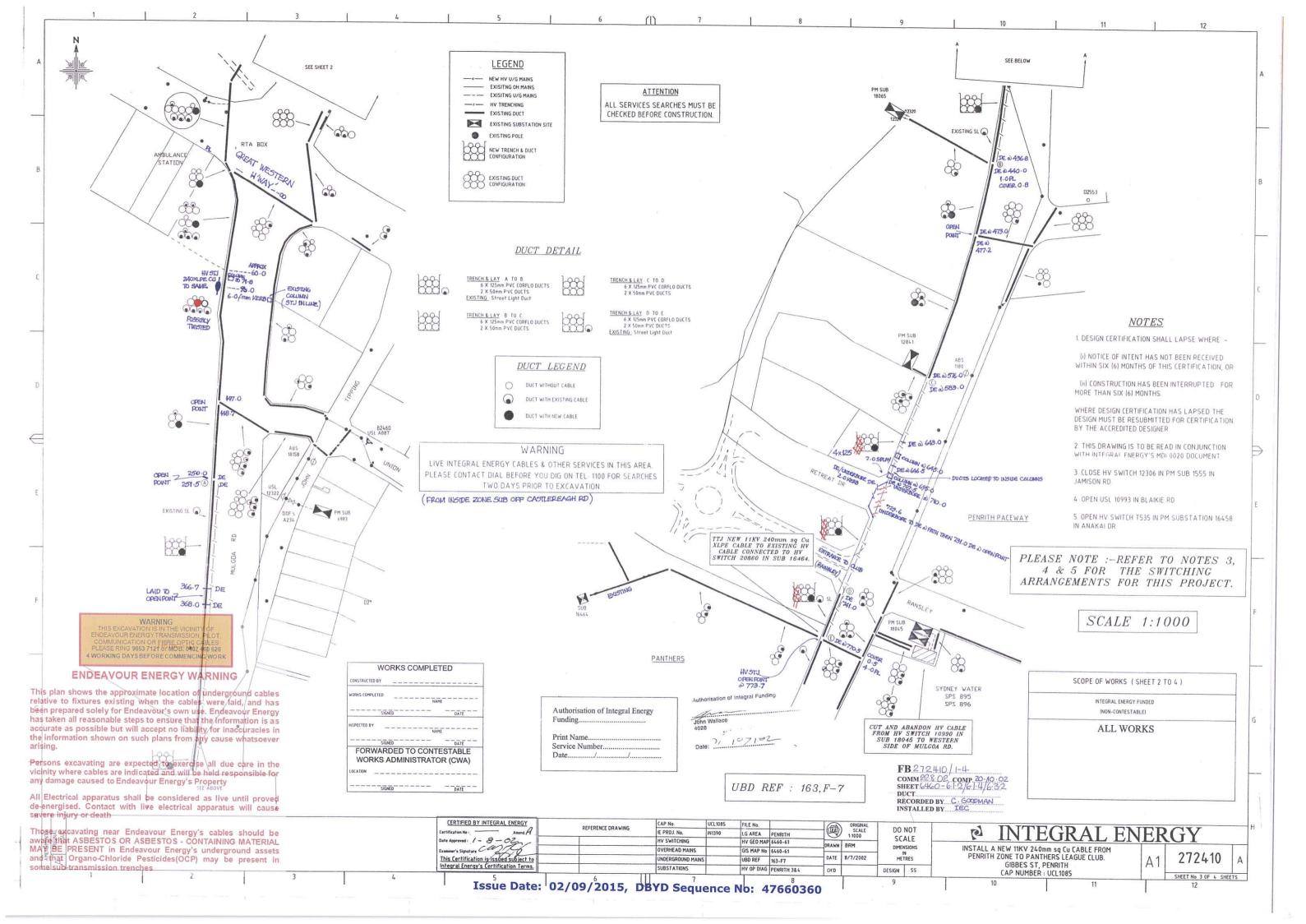
e all due 80, 70 he held responsible for Persons excavating are expected to exvicinity where cables are indicated and wany damage caused to Endeavour Energy Persons

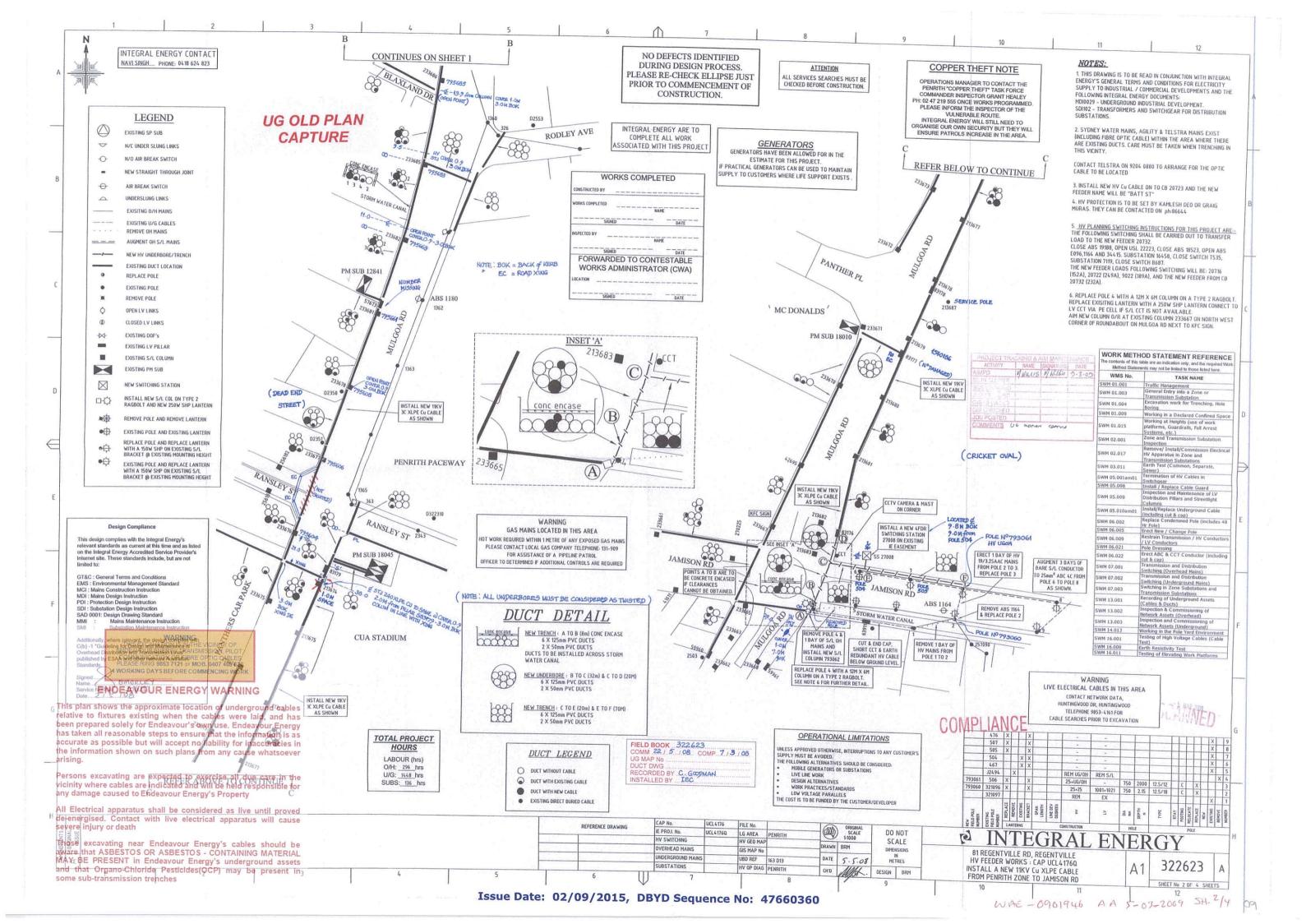
until proved is will cause All Electrical apparatus shall be considered as live de-energised. Contact with live electrical apparatu de-energised. Contac severe injury or death

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











## 3. TELECOMMUNICATIONS





For all Telstra DBYD plan enquiries - email - Telstra.Plans@team.telstra.com

For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 08/10/2015 08:23:10

CAUTION: Critical Network Route in plot area. DO NOT PROCEED with any excavation prior to seeking advice from Telstra Plan Services on: 1800 653 935

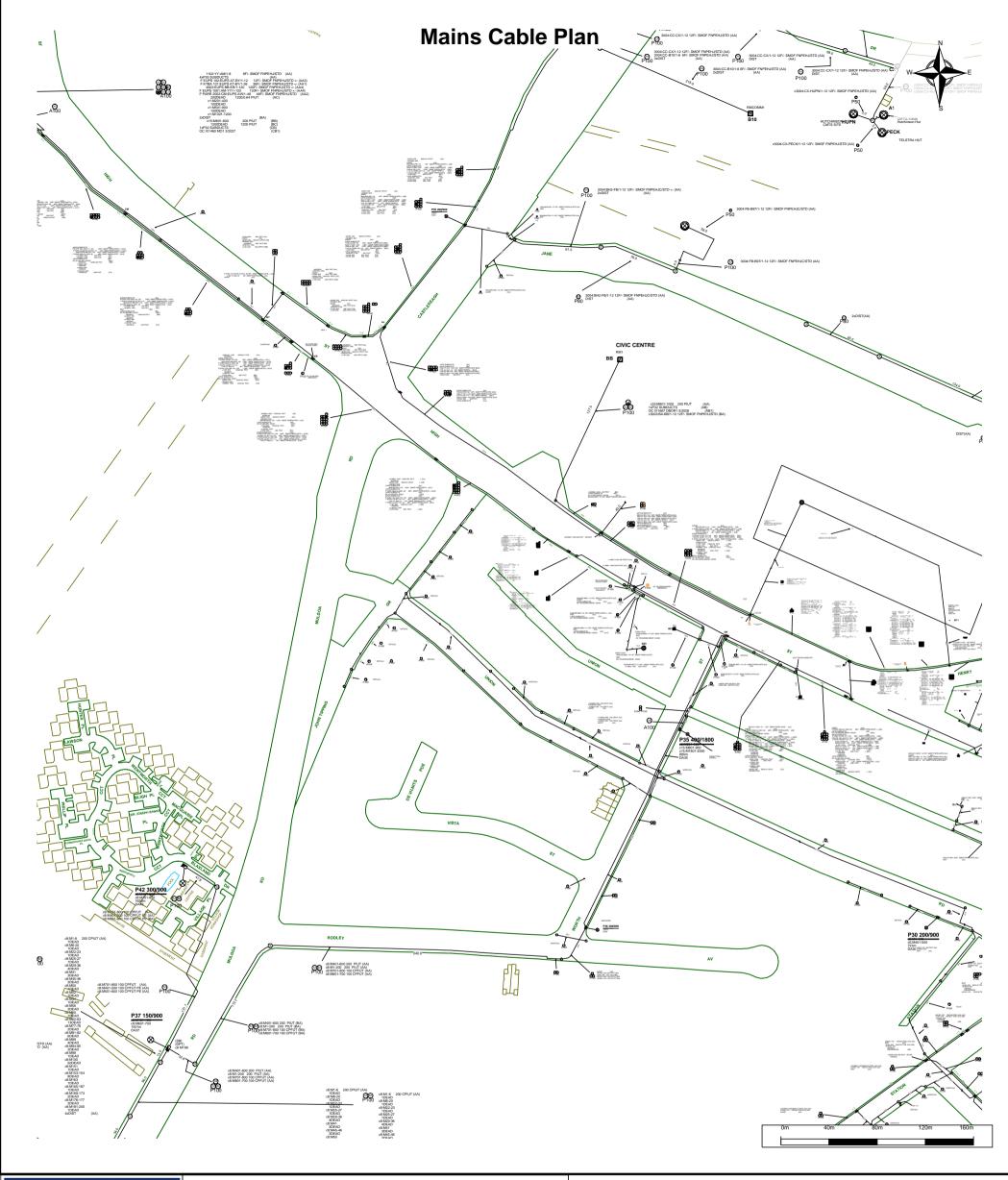
## The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

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

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

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





For all Telstra DBYD plan enquiries - email - Telstra.Plans@team.telstra.com

For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 08/10/2015 08:23:29

Sequence Number: 48361065

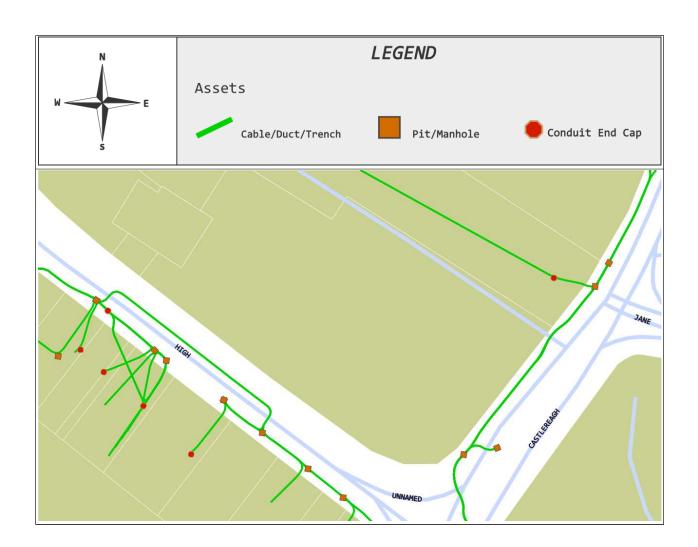
CAUTION: Critical Network Route in plot area. DO NOT PROCEED with any excavation prior to seeking advice from Telstra Plan Services on: 1800 653 935

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

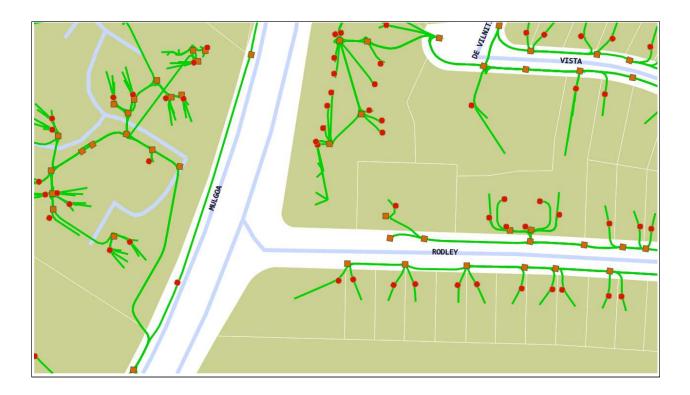
It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

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

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





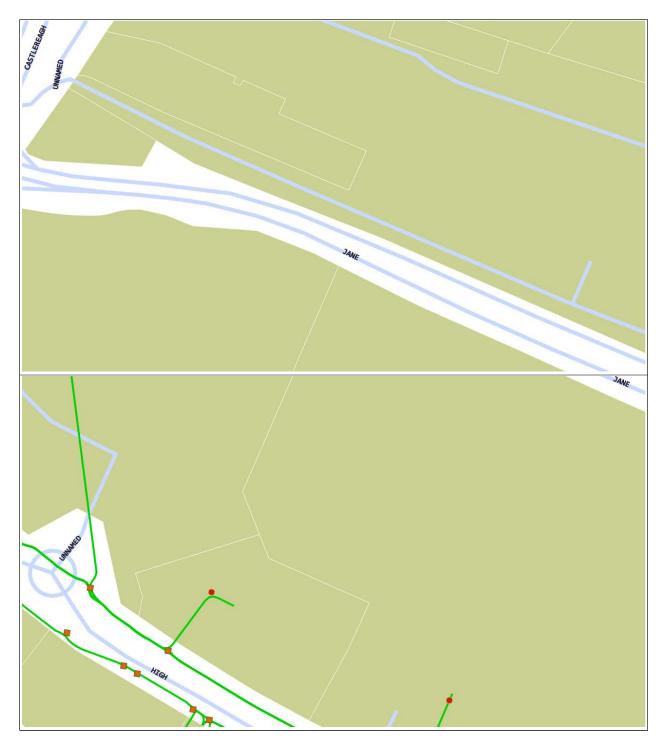


## **Conditions**

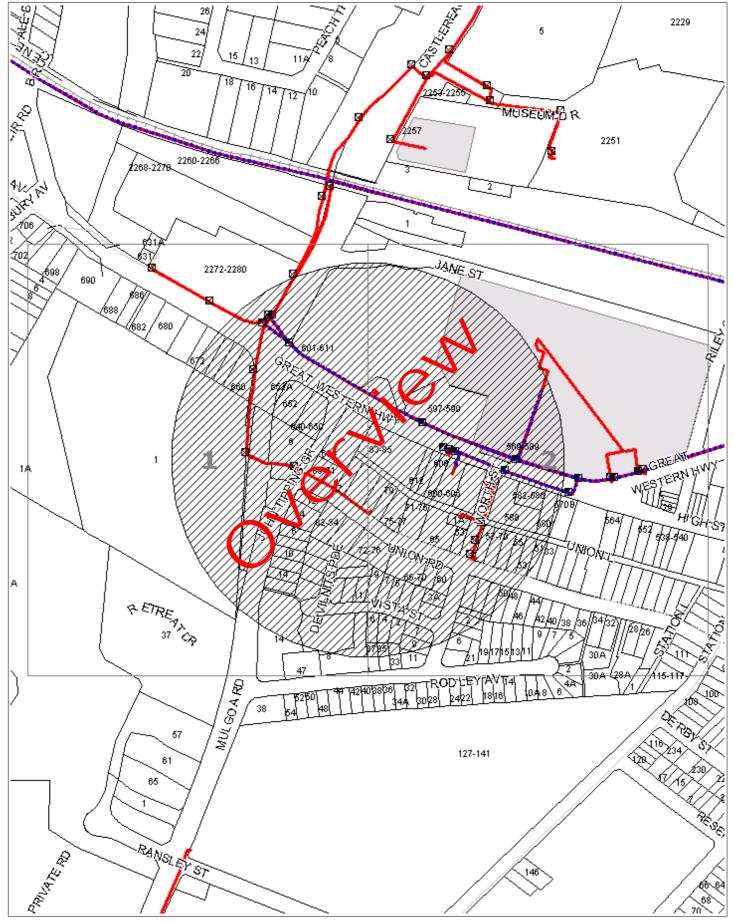
The following are conditions on which NBN Co provides you with the Indicative Plans. By accepting the plans, you are agreeing to these conditions. These conditions are <u>in addition</u> (and not in replacement of) any duties and obligations you have under applicable law.

- 1. NBN Co does not accept any responsibility for any inaccuracies of its plans. You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators at your cost to locate NBN Co telecommunications facilities during any activities you carry out on site).
- You should not assume that fibre optic cables follow straight lines or are installed at uniformed depths along their lengths, even if they are indicated on plans provided to you. Careful onsite investigations are essential to locate the exact position of cables.
- 3. In carrying out any works in the vicinity of NBN Co facilities, you must maintain the following minimum clearances:
  - 300mm when laying assets inline, horizontally or vertically
  - 500mm when operating vibrating equipment, for example: jackhammers or vibrating plates
  - 1000mm when operating mechanical excavators.
- 4. You are aware that there are inherent risks and dangers associated with carrying out work in the vicinity of underground facilities (such as NBN Co's optic fibre

Cont- PDF for Job Number: 9769352, Sequence Number: 48361069, Issue Date: 10/07/2015







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Optus Plans and information supplied are valid for 30 days from the date of issue. If this timeline has elapsed please raise a new enquiry.

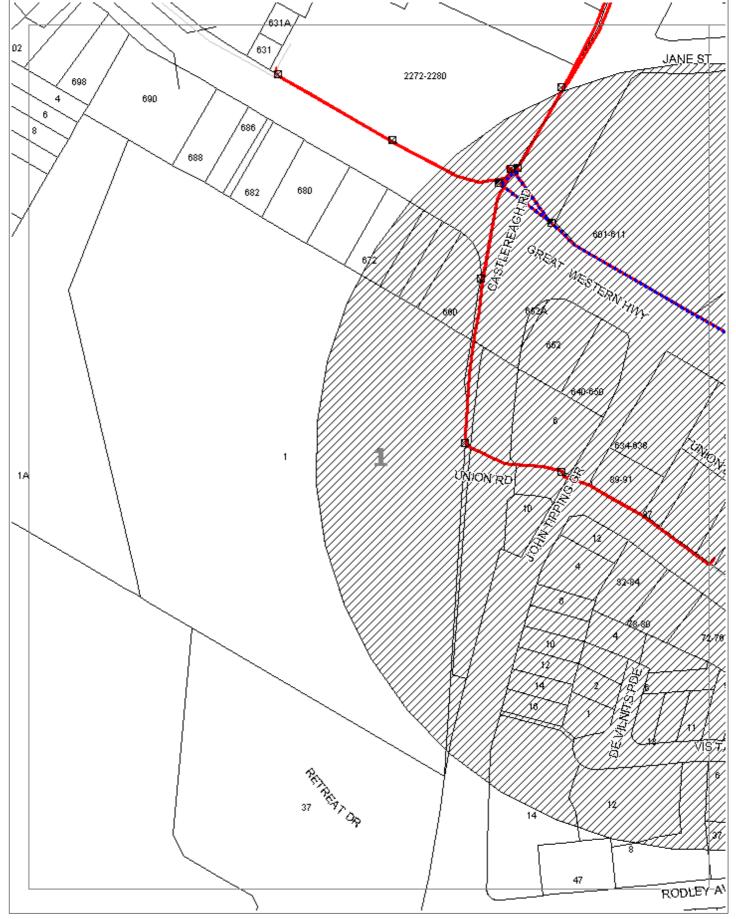
Sequence Number: 48361066



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



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Sequence Number: 48361066



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47660362 Sequence Number:

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



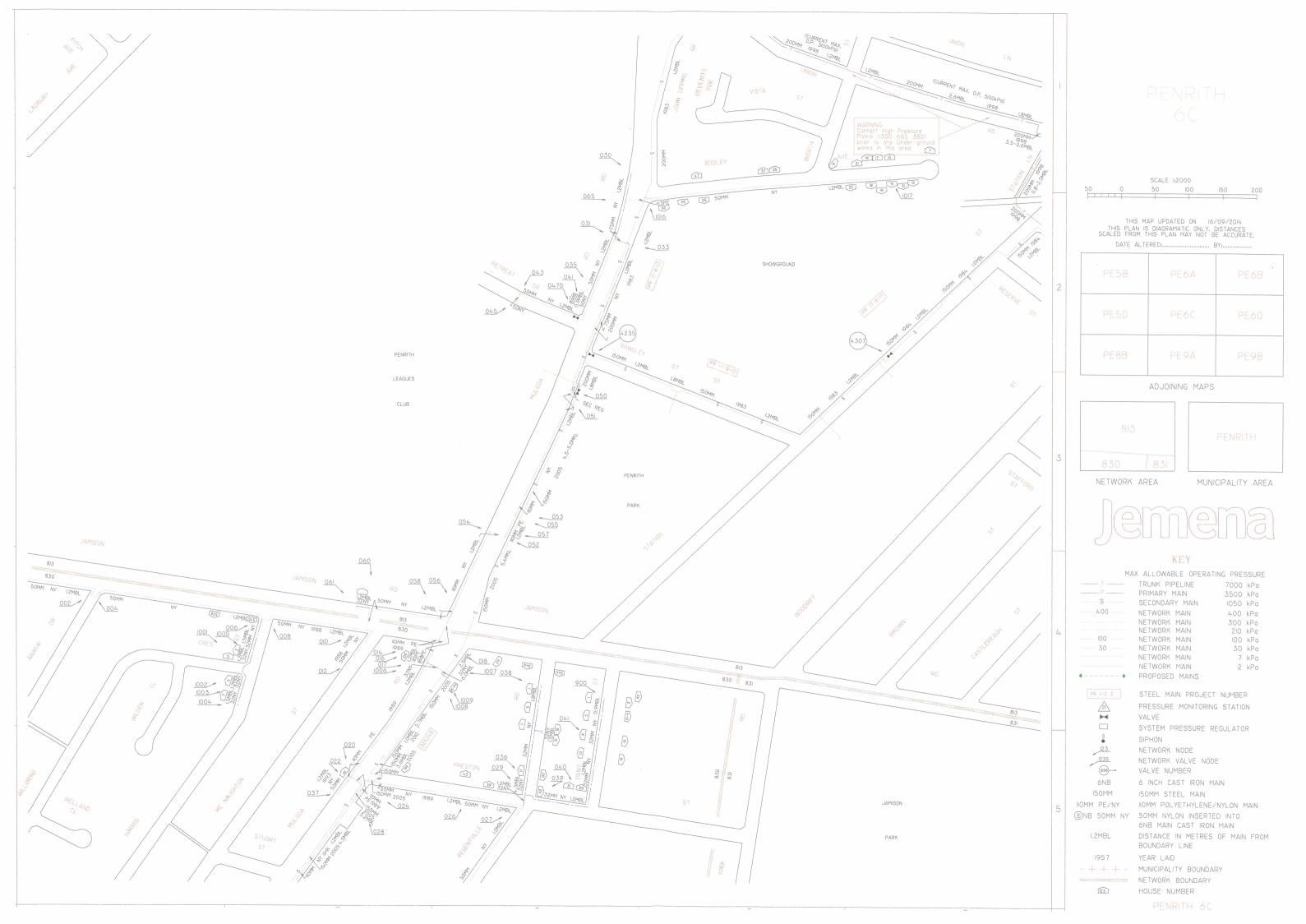
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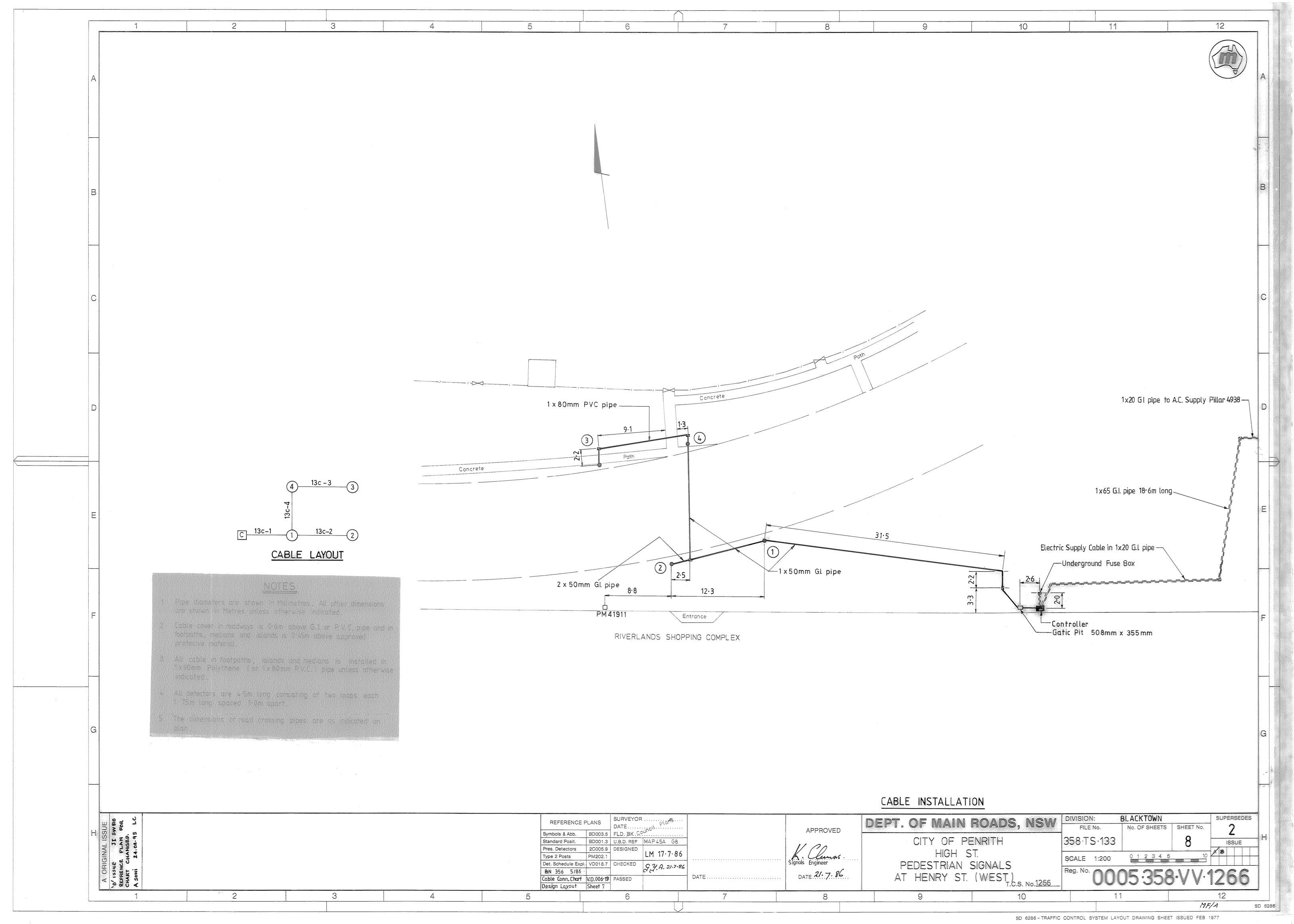
4. GAS







5. OTHER MISC. DBYD RESPONSES



TCS No 2476

