



# **WATERLOO METRO QUARTER OVER STATION DEVELOPMENT**

## **Environmental Impact Statement Appendix T – Services and Utilities Infrastructure Report**

### **SSD-10438 Basement Car Park**

Detailed State Significant Development  
Development Application

Prepared for **Waterloo Developer Pty Ltd**

30 September 2020



Reference	Description
Applicable SSD Applications	SSD-10438 Basement
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## 1. Glossary and Abbreviations

Reference	Description
ACHAR	Aboriginal Cultural Heritage Assessment Report
ADG	Apartment Design Guide
AHD	Australian height datum
AfC	Application for Connection
AQIA	Air Quality Impact Assessment
ASP	Accredited Service Provider
BC Act	Biodiversity Conservation Act 2016
BCA	Building Code of Australia
BC Reg	Biodiversity Conservation Regulation 2017
BDAR	Biodiversity Development Assessment Report
CEEC	critically endangered ecological community
CIV	capital investment value
CMP	Construction Management Plan
Concept DA	A concept DA is a staged application often referred to as a 'Stage 1' DA. The subject application constitutes a detailed subsequent stage application to an approved concept DA (SSD 9393) lodged under section 4.22 of the EP&A Act.
Council	City of Sydney Council
CPTED	Crime Prevention Through Environmental Design
CSSI approval	critical State significant infrastructure approval
CTMP	Construction Traffic Management Plan
DA	development application
DPIE	NSW Department of Planning, Industry and Environment
DRP	Design Review Panel
EP&A Act	Environmental Planning and Assessment Act 1979
EPA	NSW Environment Protection Authority
EPA Regulation	Environmental Planning and Assessment Regulation 2000



EPBC Act	Environment Protection and Biodiversity Conservation Act 1999
ESD	ecologically sustainable design
GANSW	NSW Government Architect's Office
GFA	gross floor area
HIA	Heritage Impact Assessment
IAP	Interchange Access Plan
LGA	Local Government Area
NCC	National Construction Code
OSD	over station development
PDS	Proposed Design Scope
PIR	Preferred Infrastructure Report
POM	Plan of Management
PSI	Preliminary Site Investigation
RMS	Roads and Maritime Services
SEARs	Secretary's Environmental Assessment Requirements
SEPP	State Environmental Planning Policy
SEPP 55	State Environmental Planning Policy No 55—Remediation of Land
SEPP 65	State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development
SRD SEPP	State Environmental Planning Policy (State and Regional Development) 2009
SREP Sydney Harbour	State Regional Environmental Plan (Sydney Harbour Catchment) 2005
SSD	State significant development
SSD DA	State significant development application
SLEP	Sydney Local Environmental Plan 2012
Transport for NSW	Transport for New South Wales
TIA	Traffic Impact Assessment
The proposal	The proposed development which is the subject of the detailed SSD DA



The site	The site which is the subject of the detailed SSD DA
VIA	Visual Impact Assessment
WMQ	Waterloo Metro Quarter
WMP	Waste Management Plan
WSUD	water sensitive urban design

***Table 1 Glossary and Abbreviations***



## 2. Executive Summary

This planning report has been prepared by WSP and Waterloo Developer, with key input information from our design consultants WSP Pty Ltd, Aurecon Pty Ltd and Warren Smith and Partners Pty Ltd, to accompany a detailed State significant development (SSD) development application (DA) for the Basement over station development (OSD) at the Waterloo Metro Quarter site.

This report has been prepared to address the relevant conditions of the concept SSD DA (SSD 9393) and the Secretary's Environmental Assessment Requirements (SEARs) issued for the detailed SSD DA (SSD 10438).

This report concludes that the proposed Basement OSD which is a component of the Northern and Central precincts as it facilitates the incoming supply for the services and utilities to these buildings, And that it suitable and warrants approval subject to the implementation of the following mitigation measures.

- Disconnection and demolition of the existing utilities and services to allow the proposed Basement development construction
- Utility diversions, amplifications and modifications of existing authority mains for wastewater, potable water, stormwater and high voltage, is anticipated to commence upon direction and approval of the respective authority accredited designs prior to development approval.
- Proceed with Sydney Water Notice of Requirements application for Northern Precinct and Central Precincts, and associated conditions of consent for connection of Potable Water, Sewer and Stormwater services
- Proceed with Ausgrid contestable works approval process for Northern Precinct (includes Central precinct and Basement) and associated submission and approvals for connection of high voltage power and construction of chamber substation
- Proceed with City of Sydney and Sydney Water Tap In application for Northern Precinct and Central Precincts, and associated conditions of consent for connection of Stormwater services
- Proceed with Jemena connection application for Northern Precinct and Central Precincts, and associated conditions of consent for connection of Natural Gas services
- Proceed with Carrier and communication providers application for connection process for Northern Precinct and Central Precincts, and associated conditions of consent for connection of carrier communication services
- Proceed with NBN application for connection process for Northern Precinct and Central Precincts, and associated conditions of consent for connection of NBN communication services
- Coordinate new utility services to avoid landscape tree planting and structures.
- Coordinate new utility services to consider roads, footpaths and street reservations.
- Coordinate new utility services and metro station retail services requirements to ensure no services pass through the metro station boxes.

Following the implementation of the above mitigation measures, the remaining impacts are appropriate.



### 3. Introduction

This report has been prepared to accompany a detailed State significant development (SSD) development application (DA) for the Basement over station development (OSD) at the Waterloo Metro Quarter site. The detailed SSD DA is consistent with the concept approval (SSD 9393) granted for the maximum building envelope on the site, as proposed to be modified.

The Minister for Planning, or their delegate, is the consent authority for the SSD DA and this application is lodged with the NSW Department of Planning, Industry and Environment (DPIE) for assessment.

The detailed SSD DA seeks development consent for the design, construction and operation of: Basement Car Park

- 2-storey shared basement car park and associated excavation
- Ground level structure
- Carparking for the commercial Building 1, residential Building 2, social housing Building 4, Waterloo Congregational Church and Sydney Metro
- Service vehicle spaces
- Commercial end-of-trip and bicycle storage facilities
- Retail end-of-trip and bicycle storage facilities
- Residential storage facilities
- Shared plant and services.
- In ground Onsite Detention tank for residential Building 2 and Cope Street Plaza, located in Church Square

This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) dated 9 April 2020 and issued for the detailed SSD DA. Specifically, this report has been prepared to respond to the SEARs requirements summarised below.

Item	Description of requirement	Section reference (this report)
14. Utilities	identify and address the existing capacity to service the development proposed and any augmentation requirements for utilities in consultation with relevant agencies.	Potable Water – Section 9.1.2 Wastewater – Section 9.3.2 Natural Gas – Section 9.4.2 Stormwater – Section 9.5.2 High Voltage Electrical – Section 9.6.2 Communications – Section 9.7.2 Appendix 1 – Waterloo Station Utility Design
14. Utilities	Identify any potential impacts of the proposed construction and operation on the existing utility infrastructure and service provider assets, and demonstrate how these will be protected, or impacts mitigated.	Potable Water – Section 9.1.4 Wastewater – Section 9.3.4 Natural Gas – Section 9.4.4 Stormwater – Section 9.5.4



Item	Description of requirement	Section reference (this report)
		High Voltage Electrical – Section 9.6.4 Communications – Section 10.7.4 Appendix 1 – Waterloo Station Utility Design

**Table 2 SEARs requirements**

This report has also been prepared in response to the following conditions of consent issued for the concept SSD DA (SSD 9393) for the OSD as summarised in the table below.

Item	Description of requirement	Section reference (this report)
B5	Refer to WMQ Design Amenity Guidelines 2020-03  Clause 13 Section 3D: Integrate New and relocated utilities underground within the street reservation, with services located underground and in a manner that facilitates tree planting	Potable Water – Section 9.1.2 Wastewater – Section 9.3.2 Natural Gas – Section 9.4.2 Stormwater – Section 9.5.2 High Voltage Electrical – Section 9.6.2 Communications – Section 9.7.2 Appendix 1 – Waterloo Station Utility Design
B5	Refer to WMQ Design Amenity Guidelines 2020-03  Clause 3 Section 3Q: The utility services for the station must not pass through the OSD	14.2.3 – Station Precinct

**Table 3 Conditions of Concept Approval**



## 4. The Site

The site is located within the City of Sydney Local Government Area (LGA). The site is situated about 3.3 kilometres south of Sydney CBD and eight kilometres northeast of Sydney International Airport within the suburb of Waterloo.

The Waterloo Metro Quarter site comprises land to the west of Cope Street, east of Botany Road, south of Raglan Street and north of Wellington Street (refer to Figure 1). The heritage-listed Waterloo Congregational Church at 103–105 Botany Road is within this street block but does not form a part of the Waterloo Metro Quarter site boundaries.

The Waterloo Metro Quarter site is a rectangular shaped allotment with an overall site area of approximately 1.287 hectares.

The Waterloo Metro Quarter site comprises the following allotments and legal description at the date of this report. Following consolidation by Sydney Metro (the Principal) the land will be set out in deposited plan DP1257150.

- 1368 Raglan Street (Lot 4 DP 215751)
- 59 Botany Road (Lot 5 DP 215751)
- 65 Botany Road (Lot 1 DP 814205)
- 67 Botany Road (Lot 1 DP 228641)
- 124-128 Cope Street (Lot 2 DP 228641)
- 69-83 Botany Road (Lot 1, DP 1084919)
- 130-134 Cope Street (Lot 12 DP 399757)
- 136-144 Cope Street (Lots A-E DP 108312)
- 85 Botany Road (Lot 1 DP 27454)
- 87 Botany Road (Lot 2 DP 27454)
- 89-91 Botany Road (Lot 1 DP 996765)
- 93-101 Botany Road (Lot 1 DP 433969 and Lot 1 DP 738891)
- 119 Botany Road (Lot 1 DP 205942 and Lot 1 DP 436831)
- 156-160 Cope Street (Lot 31 DP 805384)
- 107-117A Botany Road (Lot 32 DP 805384 and Lot A DP 408116)
- 170-174 Cope Street (Lot 2 DP 205942).

The detailed SSD DA applies to the Basement (the site) of the Waterloo Metro Quarter site. The site has an area of approximately 5,700sqm. The subject site comprises the following allotments and legal description at the date of this report.

### Basement Car Park DA

- 1368 Raglan Street (Lot 4 DP 215751) (Part)
- 59 Botany Road (Lot 5 DP 215751) (Part)
- 65 Botany Road (Lot 1 DP 814205) (Part)
- 67 Botany Road (Lot 1 DP 228641) (Part)
- 124–128 Cope Street (Lot 2 DP 228641) (Part)
- 69–83 Botany Road (Lot 1, DP 1084919)



- 130–134 Cope Street (Lot 12 DP 399757) (Part)
- 136–144 Cope Street (Lots A-E DP 108312) (Part)
- 85 Botany Road (Lot 1 DP 27454)
- 87 Botany Road (Lot 2 DP 27454)
- 89–91 Botany Road (Lot 1 DP 996765)
- 93–101 Botany Road (Lot 1 DP 433969 and Lot 1 DP 738891) (Part).

The boundaries of the overall site are identified at Figure 1, and the subject site of the detailed SSD DA is identified at Figures 2 and 3. The site is reasonably flat with a slight fall to the south.

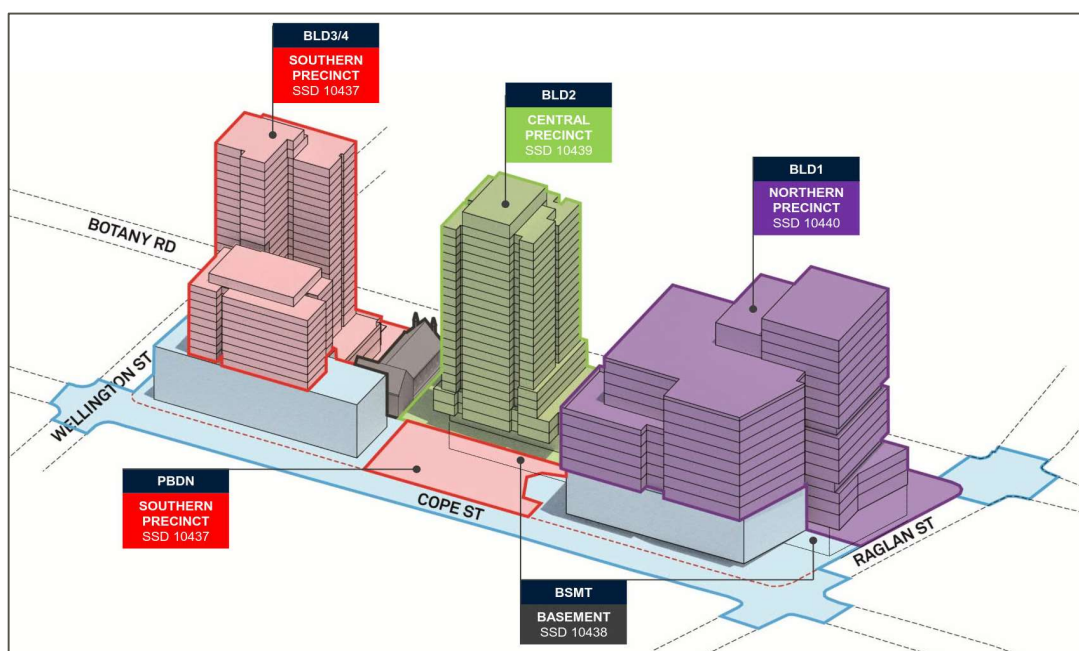
The site previously included three to five storey commercial, light industrial and shop top housing buildings. All previous structures except for an office building at the corner of Botany Road and Wellington Street have been demolished to facilitate construction of the new Sydney Metro Waterloo station. As such the existing site is predominately vacant and being used as a construction site.

Construction of the Sydney metro is currently underway on site in accordance with critical State significant infrastructure approval (CSSI 7400).

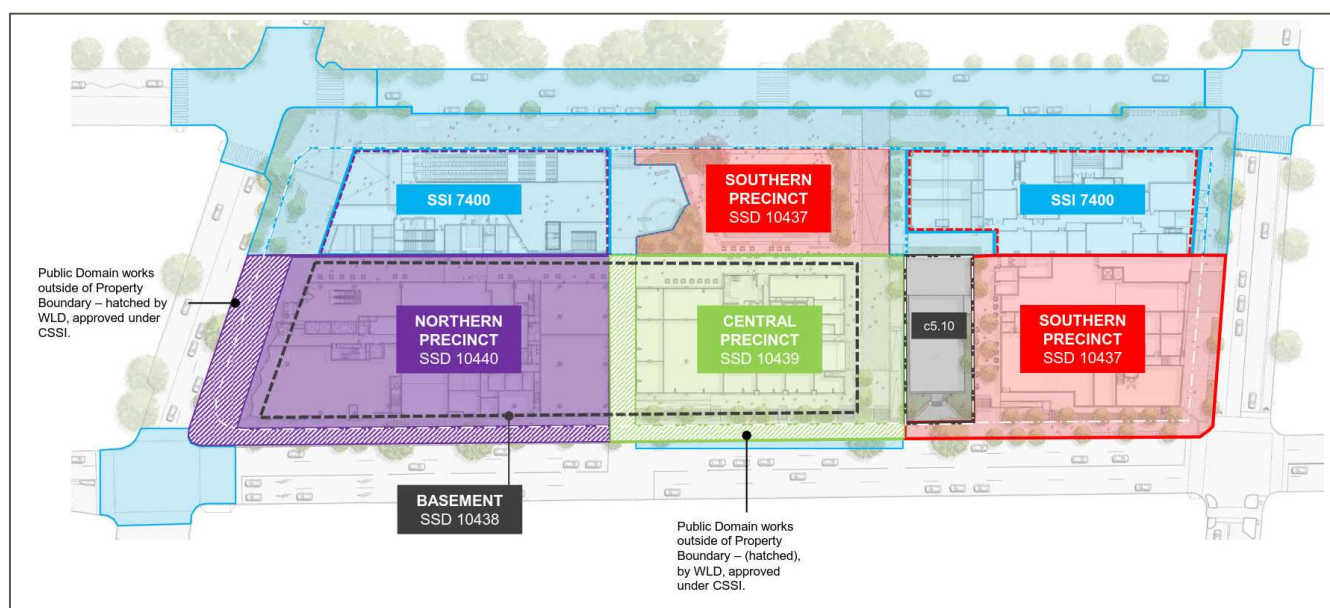


**Figure 1 Aerial image of the site**  
**Source: Urbis**

The area surrounding the site consists of commercial premises to the north, light industrial and mixed-use development to the south, residential development to the east and predominantly commercial and light industry uses to the west.



**Figure 2 Waterloo Metro Quarter site, with sub-precinct buildings identified**  
**Source: HASSELL**



**Figure 3 Waterloo Metro Quarter site, with sub-precincts identified**  
**Source: Waterloo Developer Pty Ltd**



## 5. Background

### 5.1 About Sydney Metro

Sydney Metro is Australia's biggest public transport project. Services started in May 2019 in the city's North West with a train every four minutes in the peak. A new standalone railway, this 21st century network will revolutionise the way Sydney travels.

There are four core components:

#### 5.1.1 Sydney Metro North West

This project is now complete and passenger services commenced in May 2019 between Rouse Hill and Chatswood, with a metro train every four minutes in the peak. The project was delivered on time and \$1 billion under budget.

#### 5.1.2 Sydney Metro City & Southwest

Sydney Metro City & Southwest project includes a new 30km metro line extending metro rail from the end of Metro Northwest at Chatswood, under Sydney Harbour, through new CBD stations and southwest to Bankstown. It is due to open in 2024 with the ultimate capacity to run a metro train every two minutes each way through the centre of Sydney.

Sydney Metro City & Southwest will deliver new metro stations at Crows Nest, Victoria Cross, Barangaroo, Martin Place, Pitt Street, Waterloo and new underground metro platforms at Central Station. In addition, it will upgrade and convert all 11 stations between Sydenham and Bankstown to metro standards.

#### 5.1.3 Sydney Metro West

Sydney Metro West is a new underground railway connecting Greater Parramatta and the Sydney CBD. This once-in-a-century infrastructure investment will transform Sydney for generations to come, doubling rail capacity between these two areas, linking new communities to rail services and supporting employment growth and housing supply between the two CBDs.

The locations of seven proposed metro stations have been confirmed at Westmead, Parramatta, Sydney Olympic Park, North Strathfield, Burwood North, Five Dock and The Bays.

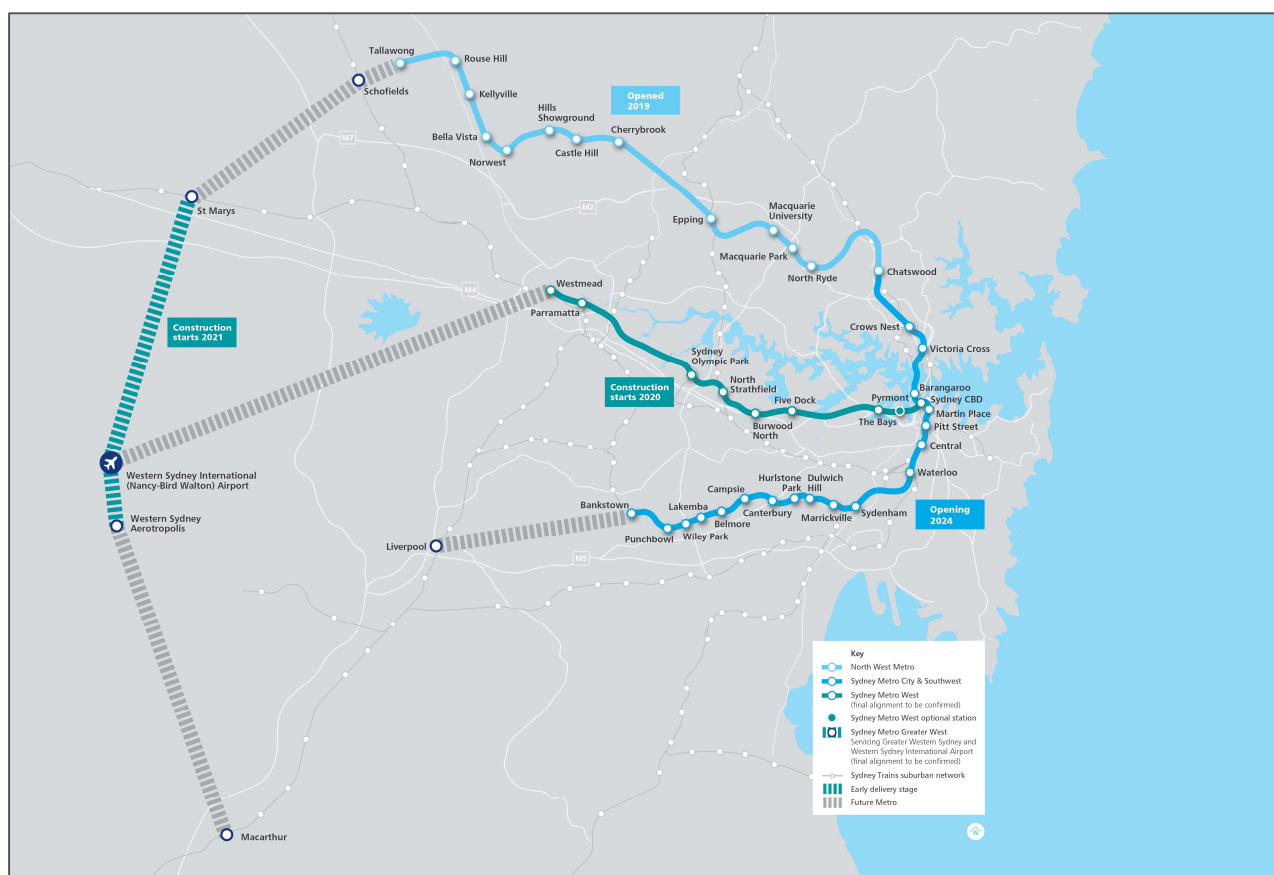
The NSW Government is assessing an optional station at Pyrmont and further planning is underway to determine the location of a new metro station in the Sydney CBD.

#### 5.1.4 Sydney Metro Greater West

Metro rail will also service Greater Western Sydney and the new Western Sydney International (Nancy Bird Walton) Airport. The new railway line will become the transport spine for the Western Parkland City's growth for generations to come, connecting communities and travellers with the rest of Sydney's public transport system with a fast, safe and easy metro service.

The Australian and NSW governments are equal partners in the delivery of this new railway.

The Sydney Metro project is illustrated below.



**Figure 4 Sydney Metro alignment map**  
Source: Sydney Metro

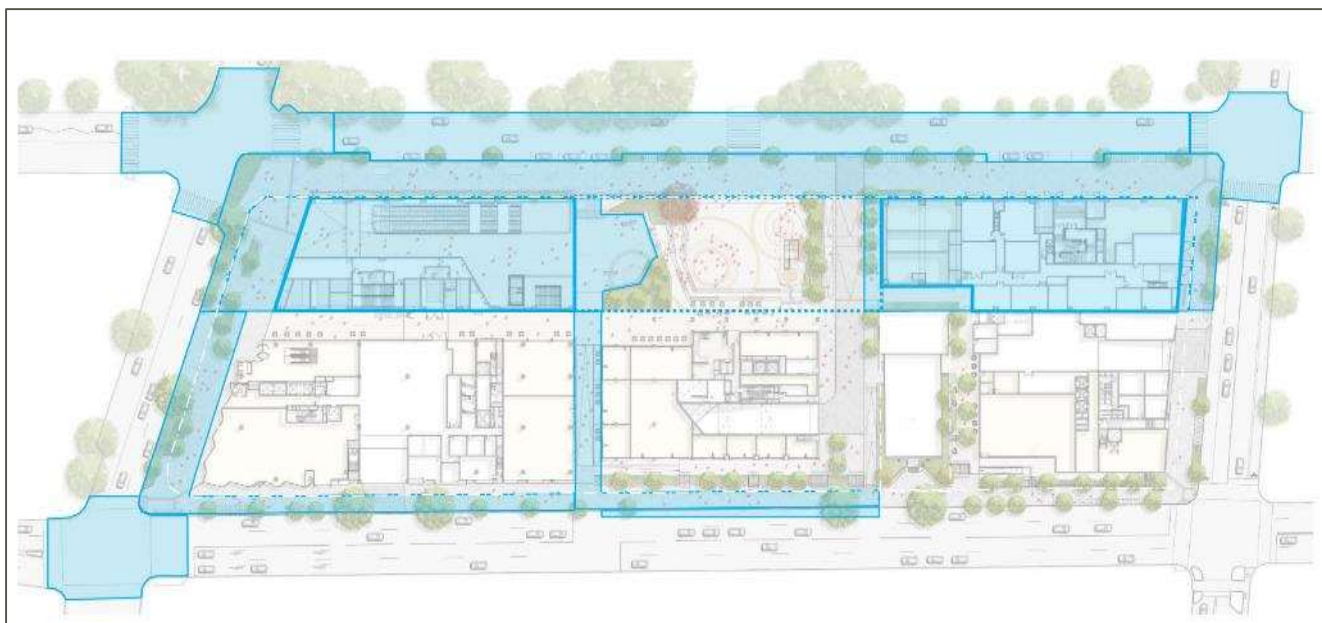
## 5.2 Sydney Metro CSSI Approval (SSI 7400)

On 9 January 2017, the Minister for Planning approved the Sydney Metro City & Southwest - Chatswood to Sydenham project as a critical State significant infrastructure (CSSI) project (reference SSI 7400) (CSSI approval). The terms of the CSSI approval includes all works required to construct the Sydney Metro Waterloo Station. The CSSI approval also includes the construction of below and above ground works within the metro station structure for appropriate integration with the OSD.

With regards to CSSI related works, any changes to the 'metro station box' envelope and public domain will be pursued in satisfaction of the CSSI conditions of approval and do not form part of the scope of the concept SSD DA or detailed SSD DA for the OSD.

Except to the extent described in the EIS or Preferred Infrastructure Report (PIR) submitted with the CSSI application, any OSD buildings and uses do not form part of the CSSI approval and will be subject to the relevant assessment pathway prescribed by the EP&A Act.

The delineation between the approved Sydney Metro works, generally described as within the two 'metro station boxes' and surrounding public domain works, and the OSD elements are illustrated in Figure 5.



**Figure 5 CSSI Approval scope of works**  
Source: WL Developer Pty Ltd

### 5.3 Concept Approval (SSD 9393)

As per the requirements of clause 7.20 of the *Sydney Local Environmental Plan 2012* (SLEP), as the OSD exceeds a height of 25 metres above ground level (among other triggers), development consent is first required to be issued in a concept DA (formerly known as Stage 1 DA).

Development consent was granted on 10 December 2019 for the concept SSD DA (SSD 9393) for the Waterloo Metro Quarter OSD including:

- a maximum building envelope for podium, mid-rise and tower buildings
- a maximum gross floor area of 68,750sqm, excluding station floor space
- conceptual land use for non-residential and residential floor space
- minimum 12,000sqm of non-residential gross floor area including a minimum of 2,000sqm of community facilities
- minimum 5% residential gross floor area as affordable housing dwellings
- 70 social housing dwellings
- basement car parking, motorcycle parking, bicycle parking, and service vehicle spaces.

The detailed SSD DA seeks development consent for the OSD located within the Basement of the site, consistent with the parameters of this concept approval. Separate SSD DAs have been prepared and will be submitted for the Northern Precinct, Central Precinct, and Southern Precinct which is inclusive of the Cope St Plaza proposed across the Waterloo Metro Quarter site.

A concurrent amending concept SSD DA has been prepared and submitted to the DPIE which proposed to make modifications to the approved building envelopes at the northern precinct and central building. This amending concept SSD DA does not impact the proposed development within the southern precinct.



## 6. Proposed development

### 6.1 Waterloo Metro Quarter Development

The Waterloo Metro Quarter OSD comprises four separate buildings, a basement carpark and public domain works adjacent to the Waterloo Metro station.

Separate SSD DAs will be submitted concurrently for the design, construction and operation of each building in the precinct;

- Southern precinct SSD-10437,
- Basement Car Park SSD-10438,
- Central precinct SSD-10439, and
- Northern precinct-SSD-10440.

An overview of the Development is included below for context. This detailed SSD DA seeks development consent for the design, construction and operation of the Basement Car Park:

#### 6.1.1 Northern Precinct

The Northern Precinct comprises:

- 17-storey commercial building (Building 1) comprising Commercial floor space, with an approximate capacity of 4000 workers
- Ground level retail tenancies, loading dock facilities serving the northern and central precinct including Waterloo metro station
- Landscaping and private open space at podium and roof top levels to support the commercial tenants
- New public open space including the delivery of the Raglan Street Plaza, Raglan Walk and expanded footpaths on Raglan Street and Botany Road and public domain upgrades
- External licensed seating areas
- Signage zone locations
- Utilities and service provision
- Stratum subdivision (staged).

#### 6.1.2 Central Precinct

The Central Precinct comprises:

- 24-storey residential building (Building 2) comprising approximately 126 market residential and 24 affordable housing apartments, to be delivered as a mixture of 1 bedroom, 2 bedroom and 3 bedroom apartments
- Ground level retail tenancies, community hub, precinct retail amenities and basement car park entry
- Level 1 and level 2 community facilities (as defined in the SLEP) intended to be operated as a childcare centre
- Landscaping and private and communal open space at roof top levels to support the residential accommodation
- New public open space including the delivery of the Church Square, including vehicle access to the basement via a shared way from Cope Street, expanded footpaths and public domain upgrades on Botany Road



- External licensed seating areas
- Signage zone locations
- Utilities and service provision
- Stratum subdivision (staged).

### **6.1.3 Southern Precinct**

The Southern Precinct comprises:

- 25-storey residential building (Building 3) comprising student accommodation, to be delivered as a mixture of studio and twin apartments with approximate capacity of 474 students
- 9 storey residential building (Building 4) above the southern station box to accommodate 70 social housing dwellings
- Ground level retail tenancies including Makerspace and gymnasium lobby, and loading facilities
- Level 1 and level 2 gymnasium and student accommodation communal facilities
- Landscaping and private and communal open space at podium and roof top levels to support the residential accommodation
- New public open space including the delivery of the Cope Street Plaza, including vehicle access to the site via a shared way from Cope Street, expanded footpaths on Botany and Wellington Streets and public domain upgrades
- Signage zone locations
- Utilities and service provision
- Stratum subdivision (staged).

### **6.1.4 Basement Car Park (Subject DA)**

The Basement Car Park comprises:

- 2-storey shared basement car park and associated excavation comprising
- Ground level structure
- Carparking for the Commercial Building 1, Residential Building 2, social housing Building 4, Waterloo Congregational Church and Sydney Metro
- Service vehicle bays
- Commercial end of trip and bicycle storage facilities
- Retail end of trip and bicycle storage facilities
- Residential storage facilities
- Shared plant and services.
- In ground Onsite Detention tank for residential Building 2 and Cope Street Plaza, located in Church Square



## 7. Methodology

### 7.1 Infrastructure

- Engage relevant agencies to identify and address existing capacity to service the proposed development
- Incorporate requirement for proposed utility design in consultation with relevant agencies
- Identify any potential impact of the proposed construction and operation on the existing utility
- Coordinate and manage to remove, relocate or protect existing utilities in accordance with the relevant agencies requirements if required

To establish connections to all the utility services required for the operation of over the Station development the Basement development, including:

- Portable and non-portable water connection to Sydney Water network
- Sewer connection to Sydney Water network
- Stormwater connection to local road drainage network
- Telstra/NBN (Communication) connection to main backbone network
- Gas connection to Jemena local distribution network
- High voltage electricity connection to local Ausgrid substation

A combined utilities model is developed through incorporating design inputs from other engineering design disciplines and utility provider engagement and design development including utility provider design certifications; and a clash register is developed to track any potential utility clashes identified during the design development, refer to Appendix 1 for detail.

### 7.2 Building Services

- Engage relevant designers to identify required demand and capacity to service the proposed development
- Coordinate, manage and Incorporate services requirements into development concept designs
- Ensure all services designs, are designed to an extent that they will not have an impact to the Sydney Metro Station.



## 8. Infrastructure Assessment and findings

### 8.1 Survey Input

A survey of the existing utilities within and around the site has been completed, and a 3D revit model has been compiled to document the existing utilities and proposed connections to the respective utilities. The method of surveying and data used to generate the 3D utility model varies according to the specific utility services and available information.

The below table clarifies the various data quality levels for each utility services surveyed in line with AS 5488-2019 Classification of Subsurface Utility Information (SUI).

The survey quality levels exist to define the relative special accuracy of the surveyed lines to the physical position of the utility. Due to interference from other utilities and structures, varying ground conditions and limitations in the technology, the spatial tolerances outlined in AS 5488 are defined.

In instances where survey anomalies or inconsistencies are identified due to the conditions outlined above, the utilities are interpolated from standards, DBYB, as-built information or the nearest utility services.

Survey Level	Description of requirement	Section reference (this report)
Level A	Potholing and surveying to give accurate horizontal and vertical position of the existing utility (includes measurement and survey of pit and maintenance structures)	<ul style="list-style-type: none"><li>- Utility owner identification</li><li>- Utility type, status, material, size and configuration identification</li><li>- Date of installation (if known)</li><li>- Feature codes of surface features, including but not limited to pits, access chambers, poles, valves and hydrants</li></ul> <p>Location of points surveyed on surface and subsurface features measured in terms of absolute spatial positioning with a maximum horizontal tolerance of +/- 50 mm</p>
Level B	Geophysical locating and survey using cable location equipment or ground penetrating radar to generate an approximate horizontal and vertical position.	<ul style="list-style-type: none"><li>- Utility owner identification</li><li>- Utility type identification</li><li>- Date of installation (if known)</li></ul> <p>Location of surface features measured in terms of relative spatial positioning with a maximum horizontal tolerance of +/- 300 mm</p> <p>Location of surface features measured in terms of relative spatial positioning with a maximum horizontal tolerance of +/- 300 mm and maximum vertical tolerance of +/- 500 mm</p>



Survey Level	Description of requirement	Section reference (this report)
Level C	Undertake field ground survey of existing asset features as a surface feature correlation of approximate location	<ul style="list-style-type: none"> <li>- Utility owner identification</li> <li>- Utility type identification</li> <li>- Date of installation (if known)</li> <li>- Interpolation of the location and direction of the subsurface utility surface features as a point of reference</li> <li>- Feature codes of surface features, including but not limited to pits, access chambers, poles, valves and hydrants</li> </ul> <p>Location of surface features measured in terms of relative spatial positioning with a maximum horizontal tolerance of +/- 300 mm</p>
Level D	Use of 'dial before you dig' hotline and consult Utility Authorities GIS database location information.	<ul style="list-style-type: none"> <li>- Existing records</li> <li>- cursory site inspection</li> <li>- Anecdotal evidence</li> </ul>

**Table 4 Classification of Subsurface Utility**

Document Reference	Description of requirement	Quality Level	Date of Survey	Format
PR132497-15-Botany RD Waterloo-001-A	Pothole survey	A	19/01/2019	
DBYD (various)	Dial Before You Dig responses for the investigation area	D	15/01/2020	
SMCSWSWL-JHG-SWL-SR-M3D-000001	First preliminary survey, used to create existing ground surface	N/A	21/02/2020	
SMCSWSWL-A28-SWL-DE-CSD-000219	Topographic Detail Survey - Waterloo Station	D	May 2016	

**Table 5 Survey information**



## 9. Infrastructure Services

Infrastructure services have been designed to a concept level of design.

### 9.1 Water Services (Potable Cold Water)

#### 9.1.1 Demand Assessment

The WMQ Basement expected water use demand is covered within the northern precinct commercial building 1 (81kL / day) and central precinct residential building 2 (86kL / day), development applications.

#### 9.1.2 On-Site Utility Infrastructure

The existing Sydney Water network in the project area consist of potable, wastewater and stormwater mains. Refer to Table 5 for Potable Water assets are present within the Waterloo ISD area:

Type	Size	Location
Water	450mm CICL	Cope St under northbound lanes
	100mm CICL	Cope St eastern verge
	100mm CICL	Raglan St under westbound lanes
	500mm CICL	Raglan St under westbound lanes
	300mm CICL	Raglan St northern verge
	100mm CICL	Wellington St northern verge
	100mm CICL	Botany Road western verge
	150mm CICL	Botany Road eastern verge

**Table 6 Water Assets within the Waterloo ISD area**

The location of these services has been documented in Appendix 1, based on surveys as outlined in section 9.1. Although the exact depths and positions of these existing mains will not be known until potholing investigation is conducted during the detail design (DD) phase to confirm the suitability and impacts of the proposed design on the existing network.

The following proposed connections points for the northern precinct and central precinct along Botany Road have been sent to Sydney Water for pressure and flow enquiry by WSP Water service coordinator (WSC):

#### Portable Water:

- Northern Precinct: 150CICL network on Botany Road, connection is proposed approximately ~36m along Botany Road to the south of Raglan Street (Refer to Appendix 1, for indicative location of connection)
- Central Precinct: 150CICL network on Botany Road, connection is proposed approximately ~118m along Botany Road to the south of Raglan Street (Refer to Appendix 1, for indicative location of connection)



Currently this connection route is designed to comply with Sydney Water requirements and achieves sufficient clearance to other existing utilities. The project Water Services Coordinator (WSC) will provide a detailed connection design after receiving Sydney Water response to the Section 73 Notice of Requirements (NoR) during detail design (DD) phase to be conducted post DA submission.

### **9.1.3 Connection**

- Sydney Water has provided preliminary advice via Sydney Water Feasibility letter (as contained in Appendix 2), indicating that the connection to the 150CICL authority main is appropriate for the northern and central precinct developments.
- Direct connection to 150CICL Water Authority Main reticulated along Raglan Street, is proposed via a DN150 reticulated from building Water meter room.
- A reduced pressure zone device (RPZD) shall be installed for site containment on the downstream side of the cold water authority meter and all supply points of high cross contamination risks as required by Sydney Water and code requirements. Pressure boosting pumps where required shall be located within the site water meter room.
- It is noted that Sydney Water reserves the right to amend requirements in the section 73 Notice of Requirements (NoR). The NoR will provide certainty on the available capacity of the existing Sydney Water mains.

### **9.1.4 Amplifications and/or Diversions**

- Requirements for amplifications and/or diversions will be confirmed as part of the Section 73 NoR from Sydney Water.
- Feasibility Notice of Requirements has been completed for the Waterloo Development and it indicates that modifications to increase the Botany Road water main from DN150 to DN200 should be investigated with the submission and acceptance of the Section 73 NoR, which will be completed post Central Precinct DA submission.
- It is noted that Sydney Water reserves the right to amend requirements in the section 73 NoR. The NoR will provide certainty on the available capacity of the existing Sydney Water mains, and indicate where amplifications and/or diversions are required to the Sydney Water network.

## **9.2 Water Services (Fire)**

### **9.2.1 Demand Assessment**

The WMQ northern precinct commercial building 1 expected water use demand for the sprinkler system has been sized to cater for the highest hazard within the developments plus allowance for the fire hydrants and a number of operational drenchers. As the northern precinct commercial building 1 demand is higher than central precinct residential building 2, it determines the worst-case fire scenario.

The system shall be fed from the fire pumps in the basement level.

- Water supply will be a dual-water supply as defined in AS 2118.6-2012.
- Town main water supply as the primary water supplies (basement level) supplying electric driven primary pumps (basement level).
- Fire tanks as the secondary water supplies (located within the basement level) supplying diesel driven stand-by pumps (basement level).



### 9.2.2 On-Site Utility Infrastructure

Refer to Water services section 9.1.2

### 9.2.3 Connection

- A new DN150mm diameter connection will be made to the respective commercial building 1 and residential building 2 water supplies from within each of the respective water meter rooms. The incoming supply will incorporate a double check detector assembly, Fire & Rescue NSW booster assembly and serve the new combined sprinkler and hydrant system. The fire protection services contractor shall extend from this point to service all fire system within the building. Top-up for evaporation purposes to the fire services tank shall be provided from the metered potable cold water supply, all other infills to tank shall be via the fire services system.
- It is noted that Sydney Water reserves the right to amend requirements in the section 73 NoR. The NoR will provide certainty on the available capacity of the existing Sydney Water mains.

### 9.2.4 Amplifications and/or Diversions

- Refer to Water services section 9.1.4

## 9.3 Wastewater Services

### 9.3.1 Demand Assessment

The WMQ Basement expected wastewater (sewer) use demand is covered within the northern precinct commercial building 1 (49kL / day) and central precinct residential building 2 (52kL / day), development applications.

### 9.3.2 On-Site Utility Infrastructure

The existing Sydney Water network in the project area consist of potable water, wastewater and stormwater mains. Refer to Table 6 for Sewer / Wastewater assets are present within the Waterloo ISD area:

Type	Size	Location
Wastewater / Sewer	400mm VC	Cope St under road pavement
	225mm VC	Raglan St under road pavement
	300mm VC	Wellington St under road pavement

**Table 7 Sewer assets within the Waterloo ISD area**

The location of these services has been documented in Appendix 1, based on surveys as outlined in section 9.1. Although the exact depths and positions of these existing mains will not be known until potholing investigation is conducted during the detail design (DD) phase to confirm the suitability and impacts of the proposed design on the existing network.

The following proposed connections points along Botany Street have been sent to Sydney Water for pressure and flow enquiry by WSP Water Service Coordinator (WSC):

**Sewer:**



- 225VC network on Botany Road, connection is proposed approximately 48m along Botany Road to the south of Raglan Street (Refer to Appendix 1, for indicative location of connection)
- 225VC network on Botany Road, connection is proposed approximately 126m along Botany Road to the south of Raglan Street (Refer to Appendix 1, for indicative location of connection)

Currently this connection route is designed to comply with Sydney Water requirement and achieved sufficient clearance to existing utilities. WSC will provide a detailed connection design after receiving Sydney Water response during detail design (DD) phase to be conducted post DA submission.

### **9.3.3 Connection**

- Sydney Water has provided preliminary advice via Sydney Water Feasibility letter (as contained in Appendix 2), indicating that the connection to the 225VC authority main is appropriate for the northern and central precinct developments.
- Direct connection to DN225 Sewer Authority Main reticulated along Botany Road, is proposed via a DN225 reticulated from building 1 and DN225 from building 2 Sewer networks
- Provision will be made for a Sanitary drainage system complete with boundary trap, IPMF and overflow relief gully located on the ground level to provide a safe release from the connection point. Reflux valves shall be provided to drainage located below the overflow surcharge level.
- It is noted that Sydney Water reserves the right to amend requirements in the section 73 NoR. The NoR will provide certainty on the available capacity of the existing Sydney Water mains.

### **9.3.4 Amplifications and/or Diversions**

- Requirements for amplifications and/or diversions will be confirmed as part of the Section 73 NoR from Sydney Water.
- Feasibility Notice of Requirements has been completed for the Waterloo Development and it indicates that modifications to the Botany Road Sewer main will not be required to service the central precinct development, and the proposed point of connection is provisionally accepted pending the submission and acceptance of the Section 73 NoR, which will be completed post Northern and Central Precinct DA submission.
- It is noted that Sydney Water reserves the right to amend requirements in the section 73 NoR. The NoR will provide certainty on the available capacity of the existing Sydney Water mains, and indicate where amplifications and/or diversions are required to the Sydney Water network.

## **9.4 Natural Gas Services**

### **9.4.1 Demand Assessment**

The WMQ Basement expected natural gas use demand is covered within the northern precinct commercial building 1 (3500mj/hr) and central precinct residential building 2 (6000mj/hr), development applications.

### **9.4.2 On-Site Utility Infrastructure**

Within the Waterloo ISD work zone Jemena gas has underground assets within Cope St, Botany Rd, Wellington St and Raglan St. Refer to Table 7 for Natural assets are present within the Waterloo ISD area:



Type	Size	Location
Natural Gas	32mm NY 210kPa	Cope St under verge, east side of road
	32mm NY 210kPa	Cope St under verge, west side of road
	50mm NY 210kPa	Wellington St under verge, south side of road
	50mm NY 210kPa	Raglan St under verge, north side of road
	75mm NY 210kPa	Raglan St under verge, north side of road
	110mm NY 210kPa	Botany Road under verge, west side of road (this transitions to 50mm NY 210kPa heading south halfway between Wellington and Raglan)
	110mm NY 210kPa	Botany Road under verge, east side of road

**Table 8 Natural Gas assets within the Waterloo ISD area**

There are also 2 valves located at the North-West corner of Raglan St and Cope St, for isolation of the above services.

The location of these services has been documented in Appendix 1, based on surveys as outlined in section 9.1. Although the exact depths and positions of these existing mains will not be known until potholing investigation is conducted during the detail design (DD) phase to confirm the suitability and impacts of the proposed design on the existing network.

The following proposed connection point along Botany Street have been discussed with Jemena (Refer to Appendix 4):

#### **Natural Gas:**

- 7kPa network on Botany Road, connection is proposed for the WMQ commercial building 1 approximately ~43m along Botany Road to the south of Raglan Street (Refer to Appendix 1, for indicative location of connection)
- 7kPa network on Botany Road, connection is proposed for the WMQ residential building 2 approximately ~108m along Botany Road to the south of Raglan Street (Refer to Appendix 1, for indicative location of connection)

Currently this connection route is designed to comply with Jemena requirements and achieve sufficient clearance to existing utilities. A detailed connection design will be compiled and issued to Jemena during detail design (DD) phase to be conducted post DA submission.

### **9.4.3 Connection**

- Jemena has provided preliminary advice via Connection email letter dated 18-June-20 (as contained in Appendix 4), indicating that the connection to the 110NY 210kPa authority main to Botany Road as indicated will provide 7kPa at point of connection for the WMQ northern precinct commercial building 1 and WMQ residential building 2.



- The natural gas meter rooms shall be located at ground level for building 1 and building 2 with direct street access and shall be in strict accordance with Jemena's requirements for gas meter rooms. The gas meter room shall be a shared room and will house the main volume meter/gas regulator for the site and the main authority meters for the retail tenants.
- The natural gas is intended to be supplied directly from the authority mains to the respective Retail tenancy's.
- It is noted that Jemena reserves the right to amend the connection requirements when the application for connection is made and certainty on the available capacity of the existing Jemena mains is confirmed.

#### **9.4.4 Amplifications and/or Diversions**

- Requirements for amplifications and/or diversions will be confirmed as part of the application for connection response from Jemena.
- Advice provided from Jemena (as contained in Appendix 3) confirms that there is sufficient capacity in the mains surrounding the site and amplifications will not be required.
- It is noted that Jemena reserves the right to amend the connection requirements when the application for connection is made and certainty on the available capacity of the existing Jemena mains is confirmed.

### **9.5 Stormwater Services**

#### **9.5.1 Demand Assessment**

The WMQ Basement expected stormwater point of discharge demand is covered within the northern precinct commercial building 1 and central precinct residential building 2, development applications. Refer to SSD-10440 Northern Precinct EIS Appendix O – Stormwater Management and Flooding Impact Assessment Report, and SSD-10439 Central Precinct EIS Appendix O – Stormwater Management and Flooding Impact Assessment Report, for details on stormwater demand assessments.

#### **9.5.2 On-Site Utility Infrastructure**

There is existing Sydney Water and City of Sydney network stormwater mains in the project area. Refer to Table 8 for Stormwater assets are present within the Waterloo ISD area:

Type	Size	Location
Stormwater Drainage	900 Pipe [City of Sydney]	Botany Road, western verge
Stormwater Drainage	900 Pipe [City of Sydney]	Botany Road, western verge
Stormwater Drainage	914 x 914 Box Culvert [Sydney Water]	Cope Street, western verge
Stormwater Drainage	900 Pipe [City of Sydney]	Cope Street, western verge



Type	Size	Location
Stormwater Drainage	Pipe	Wellington Street – drainage pit connections at the intersection of Wellington and Cope Street, discharging to Cope Street drainage.
Stormwater Drainage	Pipe	Raglan Street – drainage pit connections at the intersection of Raglan and Cope Streets, discharging to Cope Street drainage.

**Table 9 Stormwater assets within the Waterloo ISD area**

The overall development site (of which the Northern and Centrals Precinct are parts) drains to four (4) frontages; Botany Road, Cope, Wellington and Raglan Street.

Botany Road frontage is serviced by a 900-diameter pipe with undersized and poorly maintained (based on recent visual inspection on-site) inlet pits.

Cope St is serviced by a Council stormwater main located under the kerb and gutter and a Sydney Water owned box culvert located under the western footpath. Raglan and Wellington Street is provided with surface drainage infrastructure. The site drains to Sheas Creek via Sydney Water trunk drainage and ultimately to Alexandra Canal and Botany Bay.

The location of these services has been documented in SSD-10440 Northern Precinct EIS Appendix O – Stormwater Management and Flooding Impact Assessment Report, and SSD-10439 Central Precinct EIS Appendix O – Stormwater Management and Flooding Impact Assessment Report, based on surveys as outlined in section 9.1. Although the exact depths and positions of these existing mains will not be known until potholing investigation is conducted during the detail design (DD) phase to confirm the suitability and impacts of the proposed design on the existing network.

### **9.5.3 Connection**

- Stormwater drainage for the site is proposed to comply with the City of Sydney A4 Drainage Design Guidelines and City of Sydney – Interim Floodplain Management Policy.
- Direct connection to DN900 Authority Main, reticulating along Botany Road is proposed via a DN300 reticulated from building 1 Onsite Detention tank and DN300 reticulated from the building 2 Onsite Detention tank.
- The potential connection to the Sydney Water asset along Cope St will be further evaluated during the detail design phase post DA submission.
- It is noted that Sydney Water reserves the right to amend requirements in the application for connection. The Section 73 NoR will provide certainty on the available capacity of the existing Sydney Water mains.
- It is noted that City of Sydney reserves the right to amend requirements in the Tap In application for connection. The Tap In application for connection will provide certainty on the available capacity of the existing City of Sydney mains.

### **9.5.4 Amplifications and/or Diversions**

- Requirements for amplifications and/or diversions to the City of Sydney and Sydney Water assets will be confirmed as part of the detailed design phase post DA submission. It is not currently anticipated that amplifications will be required to the existing Botany Road DN900 Pipe.



## **9.6 High Voltage Electrical**

### **9.6.1 Demand Assessment**

The WMQ Basement expected electrical use demand is covered within the northern precinct commercial building 1 (4,438 Amps per phase) and central precinct residential building 2 (1,460 Amps per phase), development applications.

### **9.6.2 On-Site Utility Infrastructure**

The existing Ausgrid network comprises of low voltage and high voltage assets that utilises a combination of overhead and underground method of reticulation.

The current arrangement includes overhead LV cabling along south side of Raglan street, the east side of Botany Road and the south side of Wellington Street, along with LV auxiliary cabling and HV Cabling within conduits back around the perimeter of the site.

The LV overhead network is supplying street lights and properties within the ISD area supplied from existing Kiosk Substations.

### **9.6.3 Connection**

A Proposed Design Scope (PDS) has been submitted to Ausgrid for the development following the initial Application for Connection (AfC) being submitted to Ausgrid and the assignment of a Contestable Project Coordinator by Ausgrid (refer to Appendix 4).

The PDS proposes the establishment of a 3x 1,500kVA transformer surface chamber substation within the Northern precinct, to support the Northern and Central Precinct, and Basement loads.

It is proposed that the chamber substation shall be looped in to the local HV network between the Zetland zone substation and substation No. 8412.

It is noted that the application for connection AN21264 is currently under determination with Ausgrid, in accordance with the Contestable works process.

### **9.6.4 Amplifications and/or Diversions**

During Stage 2 of the Waterloo station package design development, Ultegra has been engaged to prepare a concept design to enable the relocation of existing assets to facilitate the undergrounding of the surround overhead aerial network and facilitate the reticulation of the HV underground routing to supply the development.

The current design has been modelled in 3d for utility design coordination and in accordance with the relevant Ausgrid design requirement. This design has been sent to Ausgrid for review and comment.

Any utility connection and protection requirements will be further detailed by the WSP ASP level 3 designer in the next design stage.

It is currently expected that a new trench and conduits will be required from the point of network at the intersection of Wellington Street, Botany Road and Buckland Street, to the Chamber Substation within the Northern Precinct.



Requirements for amplifications and/or diversions will be confirmed as part of the AN21264 Ausgrid response.

## **9.7 Communication and Data**

### **9.7.1 Demand Assessment**

The WMQ Basement expected electrical use demand is covered within the northern precinct commercial building 1 and central precinct residential building 2, development applications.

### **9.7.2 Existing Providers**

The WMQ northern precinct building 1 site has access to following communication providers;

- NBN, NSW-Act
- Nextgen, NCC – NSW
- PIPE Networks, NSW
- Verizon Business (NSW)
- Vocus Fibre Pty Ltd (NSW)
- Telstra, NSW
- Optus, NSW

The Existing Telstra assets a mixture of copper and fibre optic cables in 100 mm and 50mm conduits, with trench arrangements ranging from single conduits to banks of 20.

Telstra assets such as pillars and exchanges are located outside the Waterloo ISD area on the corner of Botany-Wellington and Botany-Raglan. Any impact to these assets by Waterloo OSD buildings may results in alterations to existing assets within the ISD site.

NBN have assets located within the Telstra conduit network. Where Telstra conduits are being relocated, NBN will be notified as their services will also be transferred to the new routes.

The location of these services has been documented in Appendix 1, based on DYBD reports and initial site inspections. Although the exact depths and positions of these existing mains are unknown, and further investigation will be required during the detail design (DD) phase to confirm the suitability and impacts of the proposed design on the existing network.

### **9.7.3 Connection**

The proposed design is currently requiring two separate connections lead-ins for Northern Precinct development on Botany Street;

- 4 x 100mm Conduits, Communication provider TBC, approximately ~52m along Botany Road to the south of Raglan Street, for WMQ commercial building 1
- 4 x 100mm conduits, Communications provider TBC, approximately ~80m along Botany Road to the south of Raglan Street (Shared Trench with Central Precinct residential building 2) for commercial building 1 and residential building 2

The requirements for communication connection is still under design development, the relevant service provider will be engaged to review the design during the detail design phase post DA submission.



#### **9.7.4 Amplifications and/or Diversions**

Requirements for amplifications and/or diversions will be confirmed as part of the engagement with NBN Co., Carriers and other communication and data providers.



## **9.8 Coordination with Other Services**

Coordination of the proposed new infrastructure works within and around the site will be based on the Streets Opening Conference standards.

### **9.8.1 Water Services Coordination**

In addition, Section 5.12.5.2 of the Water Services Association of Australia codes (WSA 03-2011-3.1, Sydney Water Edition – 2012) states the clearance requirements for water mains, shall not be less than the minimum vertical and horizontal clearances as detailed.

### **9.8.2 Wastewater Services Coordination**

In addition, Section 5.12.5.2 of the Water Services Association of Australia codes (WSA 02-2002-2.2, Sydney Water Edition – Version 3) states the clearance requirements for sewer mains, shall not be less than the minimum vertical and horizontal clearances as detailed below.

### **9.8.3 Electrical Services Coordination**

In addition, Ausgrid network standards for design and reticulation of services will apply for all works, including but not limited to;

- NS114: Electrical Design and Construction Standards for Chamber Type Substations
- NS130: Specification for Laying Underground Cables up to and including 11kV

### **9.8.4 Data and Communication Services Coordination**

In addition, clearances for NBN services from other utilities is given in Section 5.2.13 of “New Development: Deployment of the NBN Co Conduit and Pit Network – Guidelines for Developers”.

### **9.8.5 Landscape Coordination**

In addition, clearances for the respective authority utility services the new utility services will be coordinated in manner to ensure the landscape tree planting and structures are avoided.

### **9.8.6 Civil Coordination**

In addition, clearances for the respective authority utility services the new utility services will be coordinated in manner to ensure the roads, footpaths and street reservations are considered.



## 10. Mechanical Services

Mechanical services have been designed to a concept level of design.

### 10.1 General

The general approach and design criteria for the mechanical services for the basement are detailed in the following sections and comprise:

- Air conditioning systems to serve all normally occupied areas in the building;
- Mechanical ventilation to plant rooms, car parks, toilets, kitchens and other plant areas as necessary;
- Smoke hazard management systems including smoke exhaust and stair pressurisation systems;
- Associated electrical services;
- Building management systems to control and monitor the mechanical equipment;
- Details are included for the northern precinct commercial building, and southern precinct residential building

### 10.2 Design Conditions

#### 10.2.1 External Conditions

The following design conditions have been used to size the air conditioning systems:

	Cooling	Heating
Outdoor	34.0°C Dry Bulb / 23°C Wet Bulb	7.0°C, saturated

*Table 10 Mechanical Outdoor Design Conditions*

Notes:

1. Outdoor design conditions are based on AIRAH DA09 with the design dry-bulb temperature being increased as a nominal allowance for 1.5oC temperature increase due to climate change.
2. Air cooled condensers for DX units and the like selected to operate up to an outdoor temperature of 45oC and noting that peak design capacity may not be delivered under this temperature

#### 10.2.2 Internal Conditions

The internal conditions to spaces within the basement shall be in accordance with the commercial building 1 and residential building 2 requirements for their respective areas.

#### 10.2.3 Outside Air

Outside air intake shall comply with AS1668 Part 2, BCA and the projects ESD requirements.

#### 10.2.4 Exhaust Air

Exhaust air systems shall comply with AS1668 Part 2, and the projects ESD requirements. The commercial office spaces within the basement shall also comply with PCA A-Grade requirements.

#### 10.2.5 Acoustics

Control of noise generated by the mechanical plant is required. Plant shall be designed to maintain noise levels in the building and not exceed noise levels or noise budgets as prescribed in AS2107 and the Waterloo OSD Integration Report.



## **10.3 Mechanical Services**

### **10.3.1 Proposed Air Conditioning Systems**

The space heating and cooling air conditioning systems to serve the commercial office and residential areas within the basement will be further reviewed as part of the design development phase. The initial proposal is to provide packaged air conditioning systems;

- A centralised condenser system, connecting to packaged air conditioning units
- Each room to include an in ceiling-mounted fan coil unit.
- Air cooled VRF systems, with carpark mounted outdoor units may be provided for select rooms

### **10.3.2 Mechanical Ventilation Systems**

Mechanical ventilation systems will be provided to comply with statutory code requirements and in accordance with the requirements of AS1668.2, to the following areas;

- Back of House areas
- Amenities
- Loading Dock – Residential
- Carpark
- Plantrooms

### **10.3.3 Smoke Hazard Management**

The smoke hazard management systems shall be further reviewed as part of the design development phase. The initial proposals for the smoke hazard management systems include the following:

- Stair pressurisation to each office tower stair (2off) and sized for two open doors on the office levels in addition to the exit door and to code requirements for discharge per door.
- Zoned smoke control system to serve the commercial office floors;
- Smoke exhaust shall be at the top of the Atrium;
- Air supply to all floors except the fire affected floors shall be via the central air handling plant;

### **10.3.4 Building Management Control System**

The building is to be provided with an Integrated Building Platform (IBP) and an integrated HVAC control system which shall provide comprehensive building automation functionality available for use by the Facility Maintenance staff.

The system shall be based on the open industry protocol and network standards. Control and monitoring functions of the IBP and HVAC Controls shall be used to automatically control, monitor and provide alarms for all the building services.



## 11. Electrical and Communication Services

Electrical and Communication services have been designed to a concept level of design.

### 11.1 General

The general approach and design criteria for the electrical services for the northern precinct are detailed in the following sections and comprise:

- Power distribution and chamber substation;
- LV power distribution infrastructure;
- Metering;
- General and Emergency Lighting for Internal and External areas;
- Lighting Control System;
- Earthing and Lightning / surge protection systems;
- Communications and Data systems;
- Electronic Security System;

### 11.2 Power Supply and Distribution

#### 11.2.1 Origin of Supply

The northern precinct will be supplied via a chamber substation located on ground floor next to the loading dock. It is understood that a 3 x 1500 kVA Chamber Substation will be provided, and this will supply both the northern, centre and basement precincts. It is assumed that the substation falls under option number 11 in the Ausgrid document NS109 Design Standards for Overhead Supply Developments and Distribution Centres.

The assumed 5500A firm rating is what has been used to assess the capacity of the substation against the maximum demand of the northern precinct.

#### 11.2.2 Consumer's Mains and Main Switchboard

Consumer's mains dedicated to the northern precinct shall be provided from the Ausgrid substation to a main switch room located within the basement. Consumer's Mains shall have appropriate fire rating performance in accordance with AS3013 to satisfy AS3000.

The current location of the Main Switchrooms for building 1 is provided within the commercial back of house areas to the centre west area of the P1 basement, which is accessible via the basement ramp entry for maintenance and replacement of electrical plant and by the fire brigade should an emergency occur.

The current location of the Main Switchroom is provided within the residential back of house areas to the south east end of the P1 basement, which is accessible via the basement ramp entry for maintenance and replacement of electrical plant and by the fire brigade should an emergency occur.

The Main Switch Room shall be:

- 2-hour fire rated
- Designed and Constructed to minimise the effects of EMI on Surrounding areas
- Have two separate means of egress



### **11.2.3 Metering**

An energy metering and monitoring system will be provided to each building to meet PCA A Grade, BCA, Greenstar and NABERS requirements.

Additionally all shared central plant will be metered with revenue grade (NMI) meters to allow accurate apportionment of cost between building tenants. A metering and monitoring headend system will be provided and collate all metering information to facilitate monitoring, reporting and trending required to achieve Greenstar and NABERS targets.

Supply Authority Revenue meters will be provided for house services and multiple removable links for the future installation of up to 4 Supply Authority Revenue meters will be provided to each tenanted level.

### **11.2.4 Lightning / Surge Protection**

A complete Lightning Protection System (LPS) will be installed to the requirements of AS1768:2007. The LPS design for the tower will be developed in accordance with the E+B strategy for the station precinct.

The Lighting Protection Level (LPL) will be determined during detailed design.

Lightning protection includes:

- Surge protection on MSB
- Steel roof and structural frame to be electrically continuous and use air termination network
- Bonding of air termination network into perimeter structural reinforcement.
- Bonding of column and slab reinforcement to ensure continuity of down conductors
- Pad footings utilised as earth electrodes at base of building.

Further information is required from Power Earth on the requirements for utilising down conductors without effecting the Metro boxes earthing system

### **11.2.5 Power to Specialised Equipment**

Power shall be provided to all equipment in accordance with the rated requirements of that equipment. It is anticipated that this shall comprise a combination of:

- Single phase outlets;
- 3 phase outlets rated to specific equipment requirements; and
- Permanent connections via local isolator switch.

All power to dedicated equipment shall be coordinated with the final equipment location. UPS and Standby Generator requirements shall be provided integral or dedicated to the specific equipment as required by PCA A-Grade.

### **11.2.6 General Power**

House Distribution Boards will be provided on every level of the basement and will be served from the respective commercial or residential MSRs.

Essential distribution boards will be provided on every basement level and will serve fire and life safety services.



Dedicated Mechanical services switchboards (provided by the mechanical trade) will be provided for central mechanical plant.

#### **11.2.7 COPE STREET PLAZA Power**

Provision will be made for general power to the Cope Street Plaza for access and amenity. General power requirements shall be provided in accordance with the landscape design to the plaza areas managed and maintained by the Waterloo Developer.

General power system cable containment conduits will originate from Basement or Building 3 switch rooms and terminate at the outlet. Outlet types, final system configuration and source of supply will be designed during the detail design phase post DA submission.

#### **11.2.8 Backup Power**

A standby diesel generator will be provided to serve the commercial building back of house in accordance with PCA A-Grade requirements.

A containerised generator set will be located on the commercial plant room rooftop. The containerised approach eliminates the need for a generator room with standalone equipment and effectively bundles the generator, air intake, day tank, muffler, acoustic treatment, exhaust and the like into one unit. The noise, vibration and structural loading impacts of this location will need to be considered during detailed design.

The diesel fuel storage for this generator will be located within the basement.

#### **11.2.9 Cable Reticulation**

Electrical risers shall be split into tenant and house risers. Tenant risers will contain tenant metering panels and tenant cabling. On anchor tenant floors the two tenant distribution boards shall be located within the tenant riser as well as the tenant meter panel.

House risers will contain house distribution boards, essential distribution boards, house cabling and diesel pipework.

Reticulation to all distribution boards and metering panels from rising mains will be via circuit breaker protected tee off boxes.

Submains will be XLPE/PVC insulated and sheathed cables with copper conductors, will be sized for the full rating of the circuit protective device with adjustment for all derating factors. All submains and protective devices serving tenant distribution boards will be sized in accordance with PCA A Grade requirement.

Fire rated submains reticulated on fire rated cable ladders will be provided for all Fire and Life Safety Services.

All containment systems for power cabling will be sized to provide a minimum of 25% spare capacity.



## **11.3 Lighting**

### **11.3.1 Interior Lighting**

Lighting for the basement will be in accordance with the northern precinct commercial building requirements.

Interior lighting shall be designed to comply with NCC requirements for energy efficiency (Section J) as well as taking guidance from AS 1680 and other codes/standards as applicable. All lighting shall be coordinated with the architect, marketing drawings and inclusions lists, and shall be designed to suit each particular area.

### **11.3.2 Lighting Controls**

An Intelligent Lighting Control System (ILCS) shall be provided for all electric lighting throughout the basement which allows for high level automation of the lighting functionality based on user requirements and environmental influences to maximise energy efficiency, reducing Greenhouse Gases and the facilities carbon footprint. The ILCS shall include diurnal and timer operation, occupancy sensing, daylight harvesting and maintenance harvesting as a minimum.

The ILCS shall consist of a network of luminaires, sensors and user override control devices which are integrated with the ICN to allow management to and modification of the system throughout the lifecycle of the facility, as well as providing flexibility to the varying tenant requirements.

### **11.3.3 COPE STREET PLAZA Lighting**

Provision will be made for lighting to the Cope Street Plaza for access and amenity. Lighting poles shall be provided in accordance with the landscape design to the plaza areas managed and maintained by the Waterloo Developer.

Lighting system cable containment conduits will originate from Basement or Building 3 switch rooms and terminate within the base of each light pole. Lighting types, operation, control, final system configuration and source of supply will be designed during the detail design phase post DA submission.

### **11.3.4 Emergency Lighting**

Emergency egress and signage lighting provided throughout the basement will be of a single-point battery back-up type and will be monitored via the predominant ILCS platform provided throughout the building. The luminaires will be of a DALI type Inverter / driver combination and integrate directly into the ILCS or through an interface device in the case of a PoE platform.

The emergency lighting design shall be carried out in accordance with AS/NZS 2293.1:2018: Emergency escape lighting and exit signs for buildings, Part 1: System design, installation and operation as well as National Construction Code (NCC) (Formerly Building Code of Australia(BCA)) 2019.



## **11.4 Data / Communications**

### **11.4.1 General**

The Data / Communication Services for the northern precinct commercial building generally include but are not limited to the following systems:

- House network infrastructure including:
  - Network headend cabinets
  - Structured cabling system
  - Field enclosures
  - Field equipment patching
- Carrier infrastructure including:
  - Incoming connections
  - Carrier cabinets
  - Structured cabling system
- Distributed Antenna System (DAS) infrastructure including:
  - Incoming connections
  - DAS cabinets
  - Structured cabling system
  - Remote units
  - Antennas
- Master Antenna Television System (MATV) infrastructure including:
  - Rooftop communications system
  - MATV headend
  - Structured cabling system
- Tenant infrastructure including:
  - Structured cabling system

### **11.4.2 NBN Co provisions**

Fibre to the Premises (FTTP) by the national broadband network (NBN) is the preferred method of providing an internet connection to the tenants of building 2.

The NBN infrastructure for building 2 has four major components:

- Premise Distribution Hub (PDH)
- Fibre Distribution Terminal (FDT)
- Tenant NBN Terminal (TEN)
- Structured cabling system

These components will be supplied and installed as per NBN requirements.

The PDH will be a 600mm wide by 400mm deep wall mounted enclosure located within the telecommunications room on basement level P1.

The FDT will be a 300mm wide by 200mm deep wall mounted enclosure located within the ICT riser on each floor that has a tenant. The structured cabling system will be a star topology and will be comprised of optic fibre.



The NBN incomers will be reticulated from the property boundary.

#### **11.4.3 House Services Communications**

The house network provides communication services to the following systems:

- Publicly available WI-FI in public and plant spaces;
- Integrated Building Platform (IBP);
- All building automation systems;
- All essential and non-essential building communication systems;

#### **11.4.4 Wireless Access**

A wireless access point system will be provided to the northern precinct for coverage to the following areas;

- Public areas
- Main Lobby
- Back of House areas accessible by including, storage areas and loading docks
- Commercial Plantrooms

#### **11.4.5 COPE STREET PLAZA Wireless Access**

Provision will be made for a wireless access point system (or Wifi system) to the Cope Street Plaza for public use. Wifi coverage will be provided to the plaza areas managed and maintained by the Waterloo Developer. Wireless access points shall be designed and positioned on the selected light pole locations within Cope street plaza as part of public domain works.

Wifi system cable containment conduits will originate from Basement or building 3 shared communications rooms and terminate within the base of each light pole. Wireless access point locations, final system configuration and source of supply will be designed during the detail design phase post DA submission.

#### **11.4.6 Distributed Antenna System**

A distributed antenna system (DAS) will be deployed to provide full mobile phone coverage as per PCA A grade requirements to the commercial basement areas.

To achieve this the DAS will have space allocated to three key components within building 1:

- DAS headend cabinets
- Structured Cabling System
- DAS remote unit

Spatial allocation for the DAS headend racks will be made within the northern precinct commercial building 1 DAS room on basement level P1. The DAS structured cabling system backbone cabling will connect this room and the field enclosures via ICT riser 1.

Incoming carrier supply for the DAS will be from property boundary to basement level P1 DAS room.



#### **11.4.7 Carrier Infrastructure**

To comply with PCA A grade requirements spatial allocation for two main carriers will be provided.

The carrier infrastructure is comprised the following components:

- Diverse and physically separated carrier lead ins
- Carrier cabinets
- Structured cabling system
- Floor distribution panels

Incoming carrier connections shall be from building perimeter into northern precinct building 1 telecommunications room.

Space for four cable trays has been provided to allow a tenant who has an existing relationship with a carrier to install their own infrastructure without affecting the infrastructure of the other tenants or Developer. This space is can be reallocated at a future date to accommodate changes in tenant or carrier requirements.

Additional cabling will be required to traverse the length of the basement floors as some backbone reticulation pathways will become longer. However as previously stated both multimode and single mode optic fibre are more than capable of handling the additional distances.

#### **11.4.8 MATV System**

The master antenna television system encompasses the following components:

- Rooftop communications system (individual systems for Commercial and Residential areas within the basement)
- MATV headend
- Structured cabling system

Rooftop communications services require the ability to distribute Free-to-Air (FTA) and PayTV services throughout basement areas.

FTA services will be provided through a VHF/UHF antenna mounted on a vertical mast and will be positioned with a clear direct line of site of a DVB-T transmitting tower.

PayTV services will be provided a spatial allocation for a satellite dish on the roof. The dish will be aligned for Azimuth elevation setup and cross-polarisation.

Spatial allocation for the MATV headend racks will be made within the northern precinct commercial building 1 and central precinct building 2 telecommunications rooms on basement level P1. The MATV structured cabling system backbone cabling will be located within ICT risers.

### **11.5 Electronic Security Systems**

#### **11.5.1 General**

The electronic security systems to be installed in northern precinct commercial building 1 of the Waterloo Integrated Station Development will consist of the following:

- Integrated Security Management System (ISMS);



- Closed Circuit Television (CCTV) System;
- Electronic Access Control System (EACS), inclusive of relevant alarm points; and
- Intercommunication System.

All electronic security systems will be connected to the Building's communication network, and all head-end equipment will be located in a secure rack within the Main Communications Room.

### **11.5.2 Access Control and Intruder Detection**

The ISMS will be responsible for the coordination and information exchange between the different security systems, and it will present this information to the Operators through a single Graphic User Interface (GUI) software package.

All monitoring and control of the electronic security systems of northern precinct commercial building 1 will take place primarily in the Security Office located on Level 01. This will be the primary location where administration and operation of the security systems takes place. This location will be equipped with photo ID card production equipment.

A secondary control and monitoring location will be within the Dock Manager's Office on the Ground Floor.

### **11.5.3 Intercommunication System – Commercial Building**

The intercommunication system is to be installed with an IP based system consisting of audio and video master and slave stations. The primary master intercom unit will be located in the Security Office, with the secondary master intercom unit being located in the Dock Manager's Office.

The slave intercom units will be located in the following areas, as a minimum:

- Staff entrances;
- Public entrances for after-hours entry; and
- Carpark entrances and exits.

### **11.5.4 Intercom and Remote Door Release System- Residential Building**

An audio intercom system to each apartment shall be provided that interconnects to the street level panel. The system shall incorporate the following features:

Handset monitor stations in each apartment with the ability to remotely release the external doors required to access the apartment.

This shall also include remote access to the required lift services;

- The panel located at the front door shall have the ability to page any of the handsets within the apartments;
- Monitor stations within each apartment shall only be able to provide remote door release to the external doors and lifts required to access the apartment; and
- Upon providing access via remote door release from a monitor station the door of the apartments from which the request came from is to be released.

### **11.5.5 Closed Circuit TV (CCTV) System**

A digital CCTV System as is to be provided for the development comprising:



- Video Management and Recording System;
- Equipment Rack Cabinet;
- IP Cameras;
- Signage; and
- Power Supplies.

The CCTV head end equipment is proposed to be located in a dedicated house services communications room and viewed through the security control room.

#### **11.5.6 COPE STREET PLAZA Closed Circuit Television (CCTV) System**

Provision will be made for a CCTV system to the Cope Street Plaza for security monitoring of areas managed and maintained by the Waterloo Developer. CCTV cameras shall be designed and positioned on the selected light pole locations within Cope street plaza as part of public domain works.

CCTV system cable containment conduits will originate from Basement or Building 3 shared communications room and terminate within the base of each light pole. CCTV point locations, final system configuration and source of supply will be designed during the detail design phase post DA submission.



## 12. Hydraulic

Hydraulic services have been designed to a concept level of design.

### 12.1 General

The general approach and design criteria for the hydraulic services for the northern precinct are detailed in the following sections and comprise:

- Potable cold-water services;
- Non-potable and recycled water systems;
- Potable Hot-water services;
- Natural Gas;
- Sanitary Plumbing and Drainage;
- Stormwater Drainage services;
- Acoustic insulation to all pipework, including bracketing, separation between structure and insulation;

#### 12.1.1 Backflow Prevention

The northern precinct commercial building 1 shall have a back flow prevention device installed directly downstream of the Sydney Water master meter. Additional backflow prevention shall be provided for:

- Mechanical plant and equipment;
- Trade waste equipment e.g. car wash
- Recycled water system top-up; and
- Irrigation plant and equipment.

Furthermore, additional zone protection in accordance with the Sydney Water requirements shall be provided for irrigation system, swimming pool, water fountain, cooling towers.

#### 12.1.2 Rainwater collection and drainage

Rainwater collected from plantroom, roof and surrounding controlled roof areas shall be via 'siphonic' pipework system and be directed to the rainwater harvesting system. Rain water from areas other than those noted above shall be collected via a separate Gravity or alternate 'siphonic' system picking up the surface water and will be directed to the stormwater drainage system.

Rainwater collection, treatment and storage tanks suitable for the reuse profile addressed within the development. Uses shall include in order of precedence;

- Landscape irrigation
- Common amenities toilet flush (where capacity permits)

Design shall include pre-treatment devices to manage the first flush of contaminants. Rainwater harvesting water treatment plants are to consist of a minimum dual parallel arrangement of primary filtration, secondary bag filtration plus additional treatment required to meet the local authority's requirements for use of water.

#### 12.1.3 Natural Gas

The natural gas system will be sized based on the methods described within AS 5601 to satisfy clause 5.2.4 of AS5601(2013), to supply the retail spaces only, there is no requirement for gas for commercial office heating or hot water.



Allowance has been made for pressure loss through bends and the like as the number of these will increase significantly during the coordination process. Additionally, it has been estimated that the negligible pressure loss through these bends and the like will be catered for in diversity and the spare system capacity as we have allowed for 100% duty with no diversity therefore could be seen to be very conservative.

## **12.2 Hydraulic Services – Commercial and Residential areas**

### **12.2.1 Potable Cold Water System**

The Potable cold water systems will be sized and designed for the respective commercial building 1 and residential building 2 areas within the basement.

### **12.2.2 Potable Hot Water System**

The Potable hot water systems will be sized and designed for the respective commercial building 1 and residential building 2 areas within the basement.

### **12.2.3 Sanitary Plumbing**

The sanitary drainage sizing calculations will be based on the fixture unit method, pipe sizes, and pipe grades described within AS 3500.2.

### **12.2.4 Trade Waste**

The trade waste pre-treatment devices will be sized in accordance with the local Guidelines, good engineering practice. Trade waste drainage and sanitary plumbing will be sized based on the fixture units and methods described within AS 3500.2.

### **12.2.5 COPE STREET PLAZA Hydraulic Requirements**

Provision will be made for irrigation, potable cold water and drainage to the Cope Street Plaza for access and amenity. Hydraulic requirements shall be provided in accordance with the landscape design to the plaza areas managed and maintained by the Waterloo Developer.

Irrigation and potable cold water supplies will originate from Basement or Building 3 hydraulic plantrooms and terminate at the outlet. Outlet types, final system configuration and source of supply will be designed during the detail design phase post DA submission.



## 13. Fire Services

Fire services have been designed to a concept level of design.

### 13.1 General

The building fire protection system is to be designed and installed in accordance with all relevant Australian Standards, codes and authority requirements;

- National Construction Code (NCC) 2019
- Fire hydrants and sprinklers shall form part of a combined sprinkler and hydrant system in accordance with AS2118.6-2012, with dual-water supply consisting of town main water supply and on-site water storage tanks,
- Automatic fire sprinkler system in accordance with AS 2118.1-2017,
- Fire hydrants installed in accordance with AS 2419.1-2017,
- Fire hose reels installed in accordance with and AS 2441-2005,
- Fire detection and alarm system in accordance with AS 1670.1-2018,
- Emergency Warning and Intercom System in accordance with AS 1670.4-2018,
- Smoke hazard management in accordance with AS 1668.1-2018,
- Portable fire extinguishers shall be provided in accordance with Table E1.6 of the NCC with selection and location to AS 2444.
- Fire Engineering Report (To be prepared by Fire Engineer during detail design phase)

#### 13.1.1 Combined automatic fire sprinkler and hydrant system

A Combined Fire Sprinkler and Hydrant System shall be provided throughout the building in accordance with the referenced standards AS 2118.1-2017, AS 2118.6-2012, AS 2419.1-2005, BCA G3.8 and FEBQ requirements, providing appropriate means of wet fire suppression and fire-fighting provisions for the operation of Fire & Rescue NSW, The water supply shall consist of a dual-water supply with town main + electric pump, and water tank + diesel pump. In addition a relay pump (electric) will be provided to enable FRNSW system boosting capability to the high-level pressure zone.

FRNSW booster access will be available from Botany Road.

#### 13.1.2 Fire Hose Reel System

Fire Hose Reels are to be provided throughout the building in accordance with NCC and located in accordance with AS 2441.

- Hose reels are provided on each floor level (excluding Class 2, 3 and 5 portions of the building) adjacent to the fire stairs using 36-meter hose reels.
- Hose reels shall be a separate system fed and pressurized from a stand-alone fire hose reel pump

#### 13.1.3 Portable Fire Extinguishers

Portable fire extinguishers and fire blankets are to be provided throughout to comply with NCC table E1.6 and selected, located and distributed in accordance with sections 1 to 4 of AS 2444.

#### 13.1.4 Fire Detection and Alarm Systems

An addressable fire detection & alarm system shall be provided in accordance with AS 1670.1 – 2018, E2.2a of the BCA.



A networked addressable analogue Fire Detection (FDCIE) shall be provided in the Fire Control Room of the Building – on ground level. Panels are to be of the non-proprietary type with open protocol.

The Fire Detection & Alarm System will provide interface between the sprinkler and hydrant systems, smoke detectors and shut-down / control of the mechanical smoke control systems, security, audio visual, and BMCS.

The FDCIE will incorporate Fire Fan Control Panel(s) (FFCP) that will automatically and manually control the ventilation and air distribution systems throughout the entire building, for operation of the fire fans by Fire & Rescue NSW, for fire and smoke control.

A network interface will be provided between Building 1 (FDCIE) and Building 2 (FDCIE).

#### **13.1.5 Building Occupant Warning System**

An EWIS (SSISEP) will be provided in accordance with AS 1670.4 – 2018, E4.9 and G3.8 of the BCA.

An Emergency Warning CIE (EWCIE) will be provided in the Fire Control Room adjacent to the FDCIE, FFCP.

The EWIS shall be activated by the automatic operation of an active fire system or manual operation from the Fire Control Room / Fire Detection CIE.

#### **13.1.6 Fire Control Room**

A Fire Control Room (FCR) shall be provided within the building which has direct access from Botany street level as required under NCC.



## **14. Assessment and Findings**

### **14.1 Technical assessment.**

The technical assessment of the utility requirements for WMQ Basement is contained within the northern precinct commercial building 1 and central precinct residential building 2. An assessment of the respective building requirements has determined that all connections to services will be made along Botany Road, as outlined in Appendix 1.

### **14.2 Cumulative impacts**

The cumulative impacts of the proposed utility connections on the adjacent precincts has been summarised below;

#### **14.2.1 Southern Precinct**

The WMQ Southern precinct student accommodation building 3 and social housing building 4 has proposed connections to some of the same utility services along Botany Road, and other utility services along Wellington.

As a result of the northern, central and southern precinct proposed utility connections, amplifications and modifications will be required to some of the authority networks along Botany Road.

The proposed utility connections along Wellington are only proposed for the southern precinct. Based on investigations and engagements with the authorities it is not envisaged that any amplifications will be required to utilities along Wellington.

The exact details of the authority network utility amplifications and modifications will not be known until after formal applications are completed during the detail design phase post DA submission.

#### **14.2.2 Station Precinct**

The WMQ Station precinct has dedicated utility services connections along Cope St and through the Line Wide Tunnel network, for all station operations, with the exception of the station retail spaces.

As a result of these dedicated connections for the Station operations there is not intended to be any impact from the proposed northern precinct utility services connections. The northern precinct will supply the power and trade waste building services to the northern Station retail building services, this is further outlined in the OSD Integration Report, where the point of services connection is located within the WMQ areas outside the metro station boxes.

Through consultation and communication within the WMQ Developer team applications for the Northern, Central and Southern precinct authority utility connections will be coordinated to ensure all requirements are understood. And will be designed to ensure that no WMQ services or utilities pass through the metro station boxes.

All authorities that are currently aware of the differing WMQ precincts and their connection requirements, have been outlined in Appendices of this report.



## 15. Mitigation measures

To complete the required utility connections for the Basement, the following mitigation measures will need to be followed;

- Disconnection and demolition of the existing utilities and services to allow the proposed Basement development construction
- Utility diversions, amplifications and modifications of existing authority mains for wastewater, potable water, stormwater and high voltage, is anticipated to commence upon direction and approval of the respective authority accredited designs prior to development approval.
- Proceed with Sydney Water Notice of Requirements application for Northern Precinct and Central Precincts, and associated conditions of consent for connection of Potable Water, Sewer and Stormwater services
- Proceed with Ausgrid contestable works approval process for Northern Precinct (includes Central precinct and Basement), associated submissions and approvals for connection of high voltage power and construction of chamber substation
- Proceed with City of Sydney Tap In application for Northern Precinct and Central Precincts, and associated conditions of consent for connection of Stormwater services
- Proceed with Jemena connection application for Northern Precinct and Central Precincts, and associated conditions of consent for connection of Natural Gas services
- Proceed with Carrier and communication provider applications for connection process for Northern Precinct and Central Precincts, and associated conditions of consent for connection of carrier communication services
- Proceed with NBN application for connection process for Northern Precinct and Central Precincts, and associated conditions of consent for connection of NBN communication services
- Coordinate new utility services to avoid landscape tree planting and structures.
- Coordinate new utility services to consider roads, footpaths and street reservations.
- Coordinate new utility services and metro station retail services requirements to ensure no services pass through the metro station boxes.

The mitigation measures and application processes as outlined above have been provisionally commenced and are recognised as a condition of consent for the Basement development application and associated works.



## 16. Conclusion

### 16.1 Utility Provisions

All Utility Authorities that have assets within the area of works will be notified of the proposed adjustments to their assets. The Utility Authorities through their specific application processes will review the impacts to assets and proposed augmentations and provide their individual required conditions of consent for connection of the required utilities.

Based on the confirmation of conditions of consent for asset connection as understood through authority codes, requirements and practices, the proposed northern precinct will be able to achieve the required utilities and building services statutory requirements.

### 16.2 Assumptions and Constraints

The following assumption and constraints have been considered during the utility coordination and design:

- The locations used for adjusting around, and tying into, existing utilities are based on WSP supplied information. This information is a mix of DBYD data and survey located data to a quality level of A, B, C and D as defined in AS5488. Further detailed survey will be required as design develops
- For communication design, current assumption is to provide 4x100 conduit shared trench for northern and central precincts tap into existing Telstra/NBN backbone network. Telstra/NBN is current reviewing the comms design. Design and connection detail to be confirmed in the next design stage. All other communications connections will be made on a building specific basis.
- It is assumed that Jemena will provide a single 7kPa connection and can be protected if required. Design to be detailed during detail design (DD) phase to be conducted post DA submission.
- ASP 3 design is current under Ausgrid review and subject to change in the next stage. Currently assume design is correct for the HV connection and assumes the chamber substations for the precinct will supply all power to the Metro Quarter buildings and areas. The Waterloo Metro Station will obtain its own dedicated power supply.
- It is assumed that Sydney Water will confirm that connections to Botany Road potable water and sewer will require amplification from Raglan to Wellington to facilitate the new development. The details of this amplification will not be confirmed until the individual notice of requirements is submitted for each building.

### 16.3 Building Services Provisions

The building services for the Basement have been designed to a concept level of design, to suit the requirements of the northern commercial building 1 and the central residential building 2 in accordance with the relevant codes, standards and guidelines.

### 16.4 Design Considerations

The following design considerations have been incorporated into the building services to a concept level of design:

- Maintenance
- Reliability
- Environmental and industry best practice
- Safety in Design for Construction and Maintenance



- Alternative Systems considered and assessed
- Authority infrastructure size, age and capacity
- Incorporating spare capacity
- Redundancy and backup
- Systems monitoring
- Plant Location
- Staged CC
- Site access during construction

Based on the design considerations and completion of the utility service connection provisions for WMQ Basement, which are required for the northern commercial building 1 and central residential building 2, as outlined in this document. The new WMQ Basement will be able to be constructed and commissioned in accordance with the project and statutory requirements and supports the proposal for the Basement development application.



## 17. Appendices



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## **Appendix 1 – Waterloo Station Utility Design**

# WATERLOO INTEGRATED STATION DEVELOPMENT

## WATERLOO METRO QUARTER OSD

### PROPOSED UTILITY SERVICES



LOCALITY PLAN  
NOT TO SCALE

DRAWING INDEX

UTILITIES	
WMQ-SITE-WSP-UT-DWG-U8900	COVER SHEET AND DRAWING INDEX
WMQ-SITE-WSP-UT-DWG-U8901	GENERAL NOTES AND LEGEND
WMQ-SITE-WSP-UT-DWG-U8971	UTILITIES GENERAL ARRANGEMENT PLAN SHEET 1
WMQ-SITE-WSP-UT-DWG-U8972	UTILITIES GENERAL ARRANGEMENT PLAN SHEET 2

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				SCALES		<div>KEYPLAN</div>		PRINCIPAL AEO		<div>CLIENT</div> <div> Level 27, 680 George Street, Sydney GPO Box 5384, NSW 2001, Australia Tel: +61 2 9272 5100 Fax: +61 2 9272 5101 wsp.com</div> <div></div>		<div>The information shown on this drawing is for the purposes of the Sydney Metro Project only. No warranty is given or implied as to its suitability for any other purpose. The Service Providers accept no liability arising from the use of this drawing and the information shown thereon for any purpose other than the Sydney Metro Project.</div> <div>SERVICE PROVIDERS</div> <div><div>DRAWN _ C. ZHANG _ 03.07.20 _</div><div>DESIGNED _ J. CEREZO _ 03.07.20 _</div><div>DRG CHECK _ C. BIDART _ 03.07.20 _</div><div>DESIGN CHECK _ R. JIANG _ 03.07.20 _</div><div>APPROVED _ J. PICKERING _ 03.07.20 _</div></div>				<div>WATERLOO ISD</div> <div>WATERLOO METRO QUARTER OSD</div> <div>PROPOSED UTILITY SERVICES</div> <div>COVER SHEET AND DRAWING INDEX</div>			
A		C.Z.		03.07.20		ISSUED FOR DEVELOPMENT APPLICATION		J.P.											
REV.		BY		DATE		DESCRIPTION		APPD.											
A1 Original		Co-ordinate System: MGA Zone 56		Height Datum: A.H.D.		This sheet may be prepared using colour and may be incomplete if copied		NOTE: Do not scale from this drawing.		ALT. DRG No. [Alt. Drg. No.]									

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Plot Date: 03/07/20 - 15:56

100mm AT FULL SIZE



LEGEND

GENERAL

- EXISTING CADASTRAL BOUNDARY
- ROAD DESIGN

PROPOSED UTILITIES

- GAS
- SEWER
- WATER
- COMMUNICATION
- HV ELECTRICAL UNDERGROUND
- SERVICES TRENCH FOOTPRINT
- TO BE REMOVED

PROPOSED UTILITIES - WATERLOO STATION PACKAGE (DP22)

- GAS
- SEWER
- WATER
- COMMUNICATION
- ELECTRICAL UNDERGROUND
- SERVICES TRENCH FOOTPRINT
- TO BE REMOVED

EXISTING UTILITIES

- GAS MAIN - DIGITISED
- SEWER MAIN - DIGITISED
- WATER MAIN - DIGITISED
- ELECTRICAL - DIGITISED
- COMMS - DIGITISED
- DRAINAGE - DIGITISED
- EXISTING OVERHEAD STREET LIGHT
- EXISTING LOW VOLTAGE OVERHEAD
- TRANSMISSION LINE
- POLE
- STREET LIGHT
- EXISTING ELECTRICAL JUNCTION BOX
- OPTICAL FIBER PIT
- OPTICAL JUNCTION BOX
- JUNCTION MANHOLE
- MANHOLE COVER
- SEWER LAMPHOLE COVER

GENERAL NOTES

NOTES:

- THE UTILITIES/SERVICES SHOWN IN THESE PLANS HAVE BEEN COMPILED FROM MULTIPLE SOURCES OF INFORMATION. IT IS RESPONSIBILITY OF THE CONTRACTOR TO UNDERTAKE THEIR OWN SITE INVESTIGATIONS (INCLUDING DBYD) PRIOR TO ANY CONSTRUCTION ACTIVITIES. THESE DRAWINGS ARE NEVER TO BE USED FOR THE PURPOSE OF LOCATING SERVICES. WSP SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE CAUSED USING THE UTILITIES/SERVICES INFORMATION SHOWN ON THIS DRAWINGS.
- LOCATION AND LEVEL OF ALL EXISTING SERVICES CROSSING PROPOSED DRAINAGE MUST BE CONFIRMED PRIOR TO CONSTRUCTION.
- UTILITY DRAWINGS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH THE UTILITY SERVICES STRATEGY REPORT.
- ABANDONED UTILITIES DUE TO SERVICE RELOCATION ARE ASSUMED TO BE GROUT FILLED AND NOT COMPLETELY REMOVED BY THE UTILITY INSTALLATION CONTRACTOR.
- EACH DRAWING IN THE UTILITY SET SHOULD NOT BE READ IN ISOLATION FROM THE OTHER SERVICE DRAWINGS IN THE SET.
- UTILITIES ARE TO BE IN ACCORDANCE WITH ALLOCATIONS SPECIFIED BY THE NSW STREETS OPENING CONFERENCE. 'GUIDE TO CODES AND PRACTICES FOR STREET OPENING', UNLESS DETAILED OTHERWISE.

PITS

- PITS WITHIN PAVED AREA TO BE INSTALLED WITH INFILLED LIDS AS PER LANDSCAPE ARCHITECT DETAILS.

A	C.Z.	03.07.20	ISSUED FOR DEVELOPMENT APPLICATION	J.P.
REV.	BY	DATE	DESCRIPTION	APPD.
A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
			This sheet may be prepared using colour and may be incomplete if copied	

SCALES

KEYPLAN

PRINCIPAL AEO

CLIENT

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SERVICE PROVIDERS

Level 27, 680 George Street, Sydney  
GPO Box 5384, NSW 2001, Australia  
Tel: +61 2 9272 5100 Fax: +61 2 9272 5101  
wsp.com

DRAWN\_ C. ZHANG 03.07.20

DESIGNED\_ J. CEREZO 03.07.20

DRG CHECK\_ C. BIDART 03.07.20

DESIGN CHECK\_ R. JIANG 03.07.20

APPROVED\_ J. PICKERING 03.07.20

FOR REVIEW

WATERLOO ISD

WATERLOO METRO QUARTER OSD

PROPOSED UTILITY SERVICES

GENERAL NOTES AND LEGEND

STATUS: FOR REVIEW

SHEET 1 OF 1

©

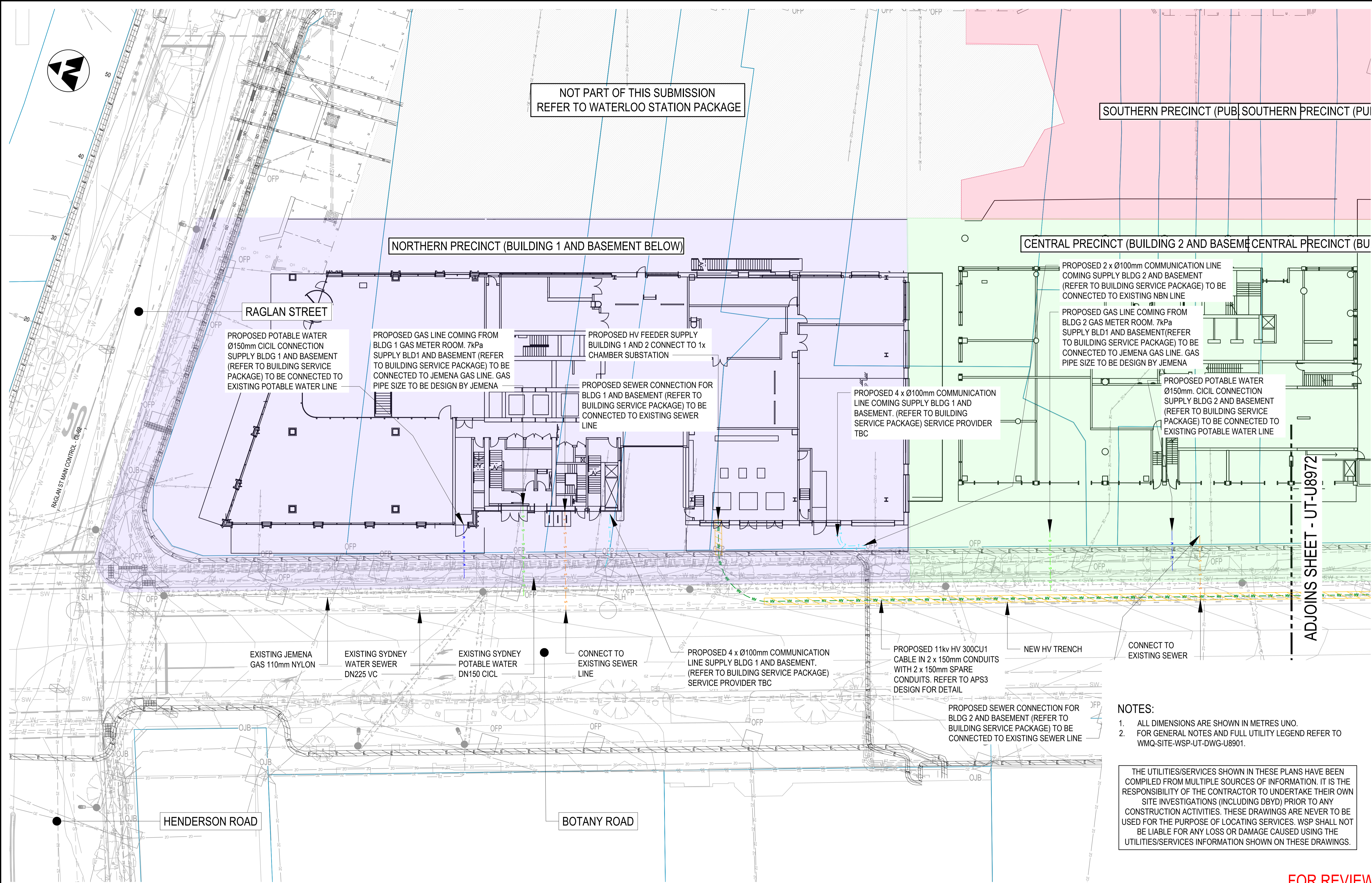
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REV. A

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Plot Date: 27/07/20 - 19:18

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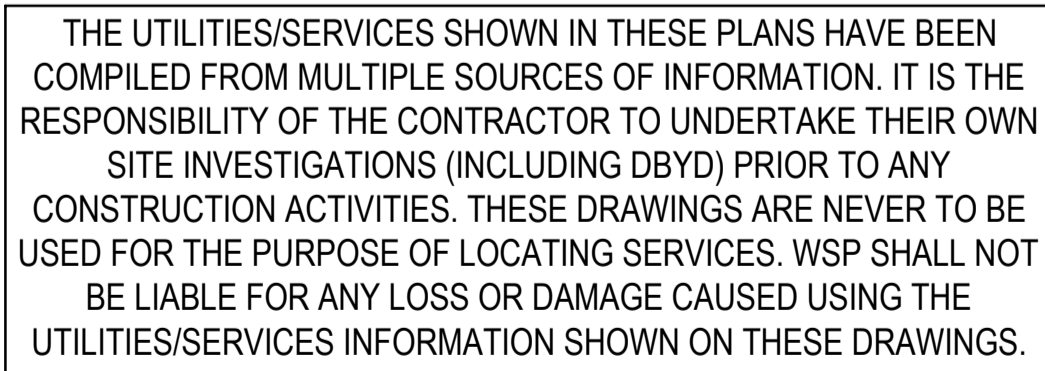


- NOTES:
- ALL DIMENSIONS ARE SHOWN IN METRES UNO.
  - FOR GENERAL NOTES AND FULL UTILITY LEGEND REFER TO WMO-SITE-WSP-UT-DWG-U8901.

THE UTILITIES/SERVICES SHOWN IN THESE PLANS HAVE BEEN COMPILED FROM MULTIPLE SOURCES OF INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UNDERTAKE THEIR OWN SITE INVESTIGATIONS (INCLUDING DBYD) PRIOR TO ANY CONSTRUCTION ACTIVITIES. THESE DRAWINGS ARE NEVER TO BE USED FOR THE PURPOSE OF LOCATING SERVICES. WSP SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE CAUSED USING THE UTILITIES/SERVICES INFORMATION SHOWN ON THESE DRAWINGS.

FOR REVIEW

<div>WORK IN PROGRESS</div>					SCALES		KEYPLAN	PRINCIPAL AEO	CLIENT	The information shown on this drawing is for the purposes of the Sydney Metro Project only. No warranty is given or implied as to its suitability for any other purpose. The Service Providers accept no liability arising from the use of this drawing and the information shown thereon for any purpose other than the Sydney Metro Project.	SERVICE PROVIDERS	WATERLOO ISD WATERLOO METRO QUARTER OSD PROPOSED UTILITY SERVICES GENERAL ARRANGEMENT PLAN							
REV.	BY	DATE	DESCRIPTION	APPD.	0 2 4 8 12 Full Size 1:200 ; Half Reduction 1:400 SCALE (m)	DRAWN						C. ZHANG	27.07.20						
B	C.Z.	27.07.20	ISSUED FOR DEVELOPMENT APPLICATION	J.P.							DESIGNED	J. CEREZO	27.07.20						
A	C.Z.	03.07.20	ISSUED FOR DEVELOPMENT APPLICATION	J.P.							DRG CHECK	C. BIDART	27.07.20						
A1 Original				Co-ordinate System: MGA Zone 56	Height Datum: A.H.D.	NOTE: Do not scale from this drawing.		ALT. DRG No.	[Alt. Drg. No.]		DESIGN CHECK	R. JIANG	27.07.20						
				This sheet may be prepared using colour and may be incomplete if copied							APPROVED	J. PICKERING	27.07.20						
											STATUS: FOR REVIEW								
											SHEET 1 OF 2		©						
											DRG No. WMO-SITE-WSP-UT-DWG-U8971		REV. B						



<h1 style="margin: 0;">WATERLOO ISD</h1> <h2 style="margin: 0;">WATERLOO METRO QUARTER OSD</h2> <h3 style="margin: 0;">PROPOSED UTILITY SERVICES</h3> <h3 style="margin: 0;">GENERAL ARRANGEMENT PLAN</h3>		
<b>STATUS: FOR REVIEW</b>	<b>SHEET 2 OF 2</b>	
DRG No. WMQ-SITE-WSP-UT-DWG-U8972	REV.	B



Waterloo Integrated  
Station Development

A Joint Venture Project

**JOHN  
HOLLAND**



---

## **Appendix 2 – Sydney Water Feasibility Notice of Requirements**

Case Number: 185224

30 July 2020

PATRICK GARLAND  
WL DEVELOPER PTY LTD  
c/- WSP AUSTRALIA PTY LTD

### FEASIBILITY LETTER

**Developer:** WL DEVELOPER PTY LTD  
**Your reference:** PS119449  
**Development:** Lot 2 DP228641  
126 COPE ST, Waterloo  
**Development Description:** This development comprises of four multilevel buildings comprising of a total of 788 units.  
**Your application date:** 3 June 2020

**Note: Level 1 water restrictions are now in place**, which limits how and when water can be used outdoors. This can impact you and your contractors in the activities they need to undertake for this proposal.

Using water to suppress dust is not restricted, but this does mean that you/your contractors will need to apply for an exemption permit to use water for most outdoor uses including:

- Cleaning equipment and the exterior of new buildings
- Drilling and boring, and
- Batching concrete on-site

Fines for deliberate breaches of restriction rules apply from 1 September 2019.

For more information on the restrictions and for applying for an exemption, visit our web site at <http://www.sydneywater.com.au/SW/water-the-environment/what-we-re-doing/water-restrictions/index.htm>

The more water everyone saves, the longer we can stave off the progression to stricter restrictions or emergency measures.

Please provide this information to your contractors and delivery partners to inform them of their obligations.

Dear Patrick,

This Feasibility Letter (Letter) is a guide only. It provides general information about what Sydney Water's requirements could be if you applied to us for a Section 73 Certificate (Certificate) for your proposed development. **The information is accurate at today's date only.**

If you obtain development consent for that development from your consent authority (this is usually your local Council) they will require you to apply to us for a Section 73 Certificate. You will need to submit a new application (and pay another application fee) to us for that Certificate by using your current or another Water Servicing Coordinator (Coordinator).

Sydney Water will then send you either a:

- Notice of Requirements (Notice) and Developer Works Deed (Deed); or
- Certificate.

These documents will be the definitive statement of Sydney Water's requirements.

There may be changes in Sydney Water's requirements between the issue dates of this Letter and the Notice or Certificate. The changes may be:

- if you change your proposed development, e.g. the development description or the plan/site layout, after today, the requirements in this Letter could change when you submit your new application; and
- if you decide to do your development in stages then you must submit a new application (and pay another application fee) for each stage.

## What You Must Do To Get A Section 73 Certificate

To get a Section 73 Certificate you must do the following things. You can also find out about this process by visiting [www.sydneywater.com.au](http://www.sydneywater.com.au) > Plumbing, building & developing > Developing > Land development.

1. **Obtain Development Consent from the consent authority for your development proposal.**
2. **Engage a Water Servicing Coordinator (Coordinator).**

**You must engage your current or another authorised Coordinator** to manage the design and construction of works that you must provide, at your cost, to service your development. If you wish to engage another Coordinator (at any point in this process) you must write and tell Sydney Water.

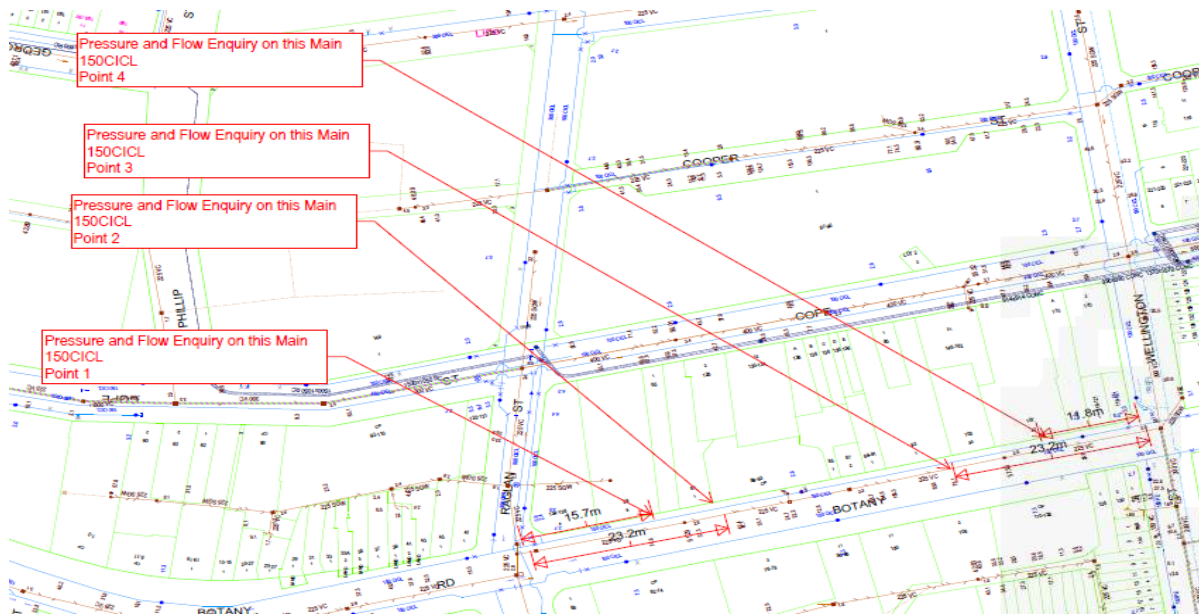
For a list of authorised Coordinators, either visit [www.sydneywater.com.au](http://www.sydneywater.com.au) > Plumbing, building & developing > Developing > Providers > Lists or call **13 20 92**.

The Coordinator will be your point of contact with Sydney Water. They can answer most questions that you might have about the process and developer charges and can give you a quote or information about costs for services/works (including Sydney Water costs).

3. **Developer Works Deed**

Your feasibility application is served from existing mains and does not require any works to be constructed at this time. Sydney Water will confirm this with you after you have received Development Approval from Council and your Coordinator has submitted a new Development application and Sydney Water has issued you with a formal Notice of Requirements.

#### 4. Water, Recycled Water and Sewer Works



##### 4.1 Water

Your development must have a frontage to a water main that is the right size and can be used for connection.

Sydney Water has assessed your application and found the existing DN150 main in Botany Street has sufficient capacity. However, if this main is impacted (e.g. resurfacing driveways) as part of the development then this main will need to be upsized to a DN200 as per the WSA Code guidelines for buildings more than 8 storeys given the scale of this development.

##### 4.2 Recycled Water

While there is no existing Sydney Water recycled water supply to this area, Sydney Water is open to working in partnership with developers to consider potential decentralised recycled water servicing solutions that may offset potable water demands for irrigation, toilet flushing and domestic washing machines, as well as air cooling towers. Consideration can also be given for rainwater capture and stormwater runoff reduction.

Please contact your Sydney Water Account Manager to investigate the potential for a commercial arrangement to supply recycled water to your development.

##### 4.3 Sewer

Your development must have a sewer main that is the right size and can be used for connection. That sewer must also have a connection point within your development's boundaries.

Sydney Water has assessed your application and found that:

- Although there is capacity in the existing DN225 sewer main in Botany Rd, from an operational standpoint due to the discharge flows it is recommended that your development connects to the DN400 in Cope St. We advise that this will minimise the risk of an overflow. Figure 2 below (DN400 highlighted in red).
- The connection to the DN400 is an external connection into a maintenance structure; either an existing maintenance hole (MH) or new MH with a sideline to the property boundary.
- If the development is below 16m RL it may be exposed to a risk of internal surcharge under extreme weather conditions. To mitigate this, you will need to consider design alternatives, e.g. Reflux valve on Customer Sanitary Drain

**Figure 2**



## 5. Ancillary Matters

### 5.1 Asset adjustments

After Sydney Water issues, this letter (and more detailed designs are available), Sydney Water may require that the water main/sewer main/stormwater located in the footway/your property needs to be adjusted/deviated. If this happens, the work must meet the conditions of this letter and you will need to complete it **before we can issue the Certificate**. Sydney Water will need to see the completed designs for the work and we will require you to lodge a security. The security will be refunded once the work is completed.

### 5.2 Entry onto neighbouring property

If you need to enter a neighbouring property, you must have the written permission of the relevant property owners and tenants. You must use Sydney Water's **Permission to Enter** form(s) for this. You can get copies of these forms from your Coordinator or the Sydney Water website. Your Coordinator can also negotiate on your behalf. Please make sure that you address all the items on the form(s) including payment of compensation and whether there are other ways of designing and constructing that could avoid or reduce their impacts. You will be responsible for all costs of mediation involved in resolving any disputes. Please allow enough time for entry issues to be resolved.

## 6. Approval of your Building Plans

You must have your building plans approved **before the Certificate can be issued**. **Building construction work MUST NOT commence until Sydney Water has granted approval**. Approval is needed because construction/building works may affect Sydney Water's assets (e.g. water and sewer mains).

Your Coordinator can tell you about the approval process including:

- Your provision, if required, of a "Services Protection Report" (also known as a "pegout"). This is needed to check whether the building and engineering plans show accurately where Sydney Water's assets are located in relation to your proposed building work. Your Coordinator will then either approve the plans or make requirements to protect those assets before approving the plans;
- Possible requirements;
- Costs; and
- Timeframes.

You can also find information about this process (including technical specifications) if you either:

- visit [www.sydneywater.com.au](http://www.sydneywater.com.au) > Plumbing, building & developing > Building > Building over or next to assets. Here you can find Sydney Water's *Technical guidelines - Building over and adjacent to pipe assets*; or
- call 13 20 92.

**Notes:**

- **The Certificate will not be issued until the plans have been approved and, if required, Sydney Water's assets are altered or deviated;**
- **You can only remove, deviate or replace any of Sydney Water's pipes using temporary pipework if you have written approval from Sydney Water's Urban Growth Business. You must engage your Coordinator to arrange this approval; and**
- **You must obtain our written approval before you do any work on Sydney Water's systems. Sydney Water will take action to have work stopped on the site if you do not have that approval. We will apply Section 44 of the *Sydney Water Act 1994*.**

**7. Special Requirements****OTHER THINGS YOU MAY NEED TO DO**

Shown below are other things you need to do that are NOT a requirement for the Certificate. They may well be a requirement of Sydney Water in the future because of the impact of your development on our assets. You must read them before you go any further.

**Disused Sewerage Service Sealing**

Please do not forget that you must pay to disconnect all disused private sewerage services and seal them at the point of connection to a Sydney Water sewer main. This work must meet Sydney Water's standards in the Plumbing Code of Australia (the Code) and be done by a licensed drainer. The licensed drainer must arrange for an inspection of the work by a NSW Fair Trading Plumbing Inspection Assurance Services (PIAS) officer. After that officer has looked at the work, the drainer can issue the Certificate of Compliance. The Code requires this.

**Soffit Requirements**

Please be aware that floor levels must be able to meet Sydney Water's soffit requirements for property connection and drainage.

**Requirements for Business Customers for Commercial and Industrial Property Developments**

If this property is to be developed for Industrial or Commercial operations, it may need to meet the following requirements:

**Trade Wastewater Requirements**

If this development is going to generate trade wastewater, the property owner must submit an application requesting permission to discharge trade wastewater to Sydney Water's sewerage system. You must wait for approval of this permit before any business activities can commence.

The permit application should be emailed to Sydney Water's [Business Customer Services](#) at

businesscustomers@sydneywater.com.au

It is illegal to discharge Trade Wastewater into the Sydney Water sewerage system without permission.

A **Boundary Trap** is required for all developments that discharge trade wastewater where arrestors and special units are installed for trade wastewater pre-treatment.

If the property development is for Industrial operations, the wastewater may discharge into a sewerage area that is subject to wastewater reuse. Find out from Business Customer Services if this is applicable to your development.

### Backflow Prevention Requirements

Backflow is when there is unintentional flow of water in the wrong direction from a potentially polluted source into the drinking water supply.

All properties connected to Sydney Water's supply must install a testable **Backflow Prevention Containment Device** appropriate to the property's hazard rating. Property with a high or medium hazard rating must have the backflow prevention containment device tested annually. Properties identified as having a low hazard rating must install a non-testable device, as a minimum.

Separate hydrant and sprinkler fire services on non-residential properties, require the installation of a testable double check detector assembly. The device is to be located at the boundary of the property.

Before you install a backflow prevention device:

1. Get your hydraulic consultant or plumber to check the available water pressure versus the property's required pressure and flow requirements.
2. Conduct a site assessment to confirm the hazard rating of the property and its services. Contact PIAS at NSW Fair Trading on **1300 889 099**.

For installation, you will need to engage a licensed plumber with backflow accreditation who can be found on the Sydney Water website:

<http://www.sydneywater.com.au/Plumbing/BackflowPrevention/>

### Water Efficiency Recommendations

Water is our most precious resource and every customer can play a role in its conservation. By working together with Sydney Water, business customers are able to reduce their water consumption. This will help your business save money, improve productivity and protect the environment.

Some water efficiency measures that can be easily implemented in your business are:

- Install water efficiency fixtures to help increase your water efficiency, refer to WELS (Water Efficiency Labelling and Standards (WELS) Scheme, <http://www.waterrating.gov.au/>
- Consider installing rainwater tanks to capture rainwater runoff, and reusing it, where cost

effective. Refer to <http://www.sydneywater.com.au/Water4Life/InYourBusiness/RWTCalculator.cfm>

- Install water-monitoring devices on your meter to identify water usage patterns and leaks.
- Develop a water efficiency plan for your business.

It is cheaper to install water efficiency appliances while you are developing than retrofitting them later.

### **Contingency Plan Recommendations**

Under Sydney Water's [customer contract](#) Sydney Water aims to provide Business Customers with a continuous supply of clean water at a minimum pressure of 15meters head at the main tap. This is equivalent to 146.8kpa or 21.29psi to meet reasonable business usage needs.

Sometimes Sydney Water may need to interrupt, postpone or limit the supply of water services to your property for maintenance or other reasons. These interruptions can be planned or unplanned.

Water supply is critical to some businesses and Sydney Water will treat vulnerable customers, such as hospitals, as a high priority.

Have you thought about a **contingency plan** for your business? Your Business Customer Representative will help you to develop a plan that is tailored to your business and minimises productivity losses in the event of a water service disruption.

For further information please visit the Sydney Water website at: <http://www.sydneywater.com.au/OurSystemsandOperations/TradeWaste/> or contact Business Customer Services on **1300 985 227** or [businesscustomers@sydneywater.com.au](mailto:businesscustomers@sydneywater.com.au)

### **Fire Fighting**

Definition of firefighting systems is the responsibility of the developer and is not part of the Section 73 process. It is recommended that a consultant should advise the developer regarding the firefighting flow of the development and the ability of Sydney Water's system to provide that flow in an emergency. Sydney Water's Operating Licence directs that Sydney Water's mains are only required to provide domestic supply at a minimum pressure of 15 m head.

A report supplying modelled pressures called the Statement of Available pressure can be purchased through Sydney Water Tap in<sup>TM</sup> and may be of some assistance when defining the firefighting system. The Statement of Available pressure, may advise flow limits that relate to system capacity or diameter of the main and pressure limits according to pressure management initiatives. If mains are required for firefighting purposes, the mains shall be arranged through the water main extension process and not the Section 73 process.

### **Large Water Service Connection**

A water main is available to provide your development with a domestic supply. The size of your development means that you will need a connection larger than the standard domestic 20 mm size.

To get approval for your connection, you will need to lodge an application with Sydney Water Tap in<sup>TM</sup>. You, or your hydraulic consultant, may need to supply the following:

- A plan of the hydraulic layout;
- A list of all the fixtures/fittings within the property;
- A copy of the fireflow pressure inquiry issued by Sydney Water;
- A pump application form (if a pump is required);
- All pump details (if a pump is required).

You will have to pay an application fee.

Sydney Water does not consider whether a water main is adequate for firefighting purposes for your development. We cannot guarantee that this water supply will meet your Council's firefighting requirements. The Council and your hydraulic consultant can help.

### **Disused Water Service Sealing**

You must pay to disconnect all disused private water services and seal them at the point of connection to a Sydney Water water main. This work must meet Sydney Water's standards in the Plumbing Code of Australia (the Code) and be done by a licensed plumber. The licensed plumber must arrange for an inspection of the work by a NSW Fair Trading Plumbing Inspection Assurance Services (PIAS) officer. After that officer has looked at the work, the drainer can issue the Certificate of Compliance. The Code requires this.

### **Other fees and requirements**

The requirements in this Notice relate to your Certificate application only. Sydney Water may be involved with other aspects of your development and there may be other fees or requirements. These include:

- plumbing and drainage inspection costs;
- the installation of backflow prevention devices;
- trade waste requirements;
- large water connections and
- council firefighting requirements. (It will help you to know what the firefighting requirements are for your development as soon as possible. Your hydraulic consultant can help you here.)

**No warranties or assurances can be given about the suitability of this document or any of its provisions for any specific transaction. It does not constitute an approval from Sydney Water and to the extent that it is able, Sydney Water limits its liability to the reissue of this Letter or the return of your application fee. You should rely on your own independent professional advice.**

---

**END**



---

## **Appendix 3 – Jemena Correspondence and Proposed connections**

## Patrick Garland

---

**From:** Zachary Kennett <Zachary.Kennett@jemena.com.au>  
**Sent:** Wednesday, 1 July 2020 11:56 AM  
**To:** Jiang, Ray  
**Cc:** Pickering, John; Ramajoo, Jonathan; Patrick Garland; Fennelly, Geraldine  
**Subject:** RE: Waterloo Over Station Development - Jemena Gas Connection

Hi Ray,

I have completed a preliminary investigation and confirmed with our capacity planners that we currently have sufficient network capacity to connect the below sites based on these loads. The next steps will be to submit formal application requests to Jemena either via the Jemena portal or through the end use customers preferred retailer.

The applications will need to be split up depending on the configuration of each building and metering required within those buildings, when submitting the applications you are unclear on what type of application you require please email me the buildings site plan, building use and meter room designs.

Please note Jemena does not reserve capacity on the network until a formal application is submitted and assessed.

Regards,

**Zachary Kennett**

Network Development Specialist – I&C

**Jemena**

99 Walker Street, North Sydney NSW 2060

PO Box 1220, North Sydney NSW 2059

Tel: 02 9867 7182 | 0409 608 399

[www.jemena.com.au](http://www.jemena.com.au)



*This is a confidential message intended for the named recipient only. The contents herein are privileged to the sender and the use thereof is restricted to the intended purpose. If you have received this e-mail in error, please secure its contents and reply to the sender. Thank you.*

---

**From:** Jiang, Ray <Ray.Jiang@wsp.com>  
**Sent:** Tuesday, 30 June 2020 3:22 PM  
**To:** Zachary Kennett <Zachary.Kennett@jemena.com.au>  
**Cc:** Pickering, John <john.pickering@wsp.com>; Ramajoo, Jonathan <Jonathan.Ramajoo@wsp.com>; patrick.garland@mirvac.com; Fennelly, Geraldine <Geraldine.Fennelly@wsp.com>  
**Subject:** RE: Waterloo Over Station Development - Jemena Gas Connection

**CAUTION:** This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and are expecting the content or attachment from the sender.

Hi Zachary,

As requested, based on current design the estimated loads at each connection point are as follows:

Connection 1

- Building 1: 6 off (inclusive of the Community Tenancies for future, and the 1 tenancy from the Metro Box) = 3000mj/hr

Connection 2

- Building 2: 12 off (inclusive of the Community Tenancies for future) = 6000mj/hr

Connection 3

- Building 3 HW plant 3000 MJ/hr
- Building 4 HW plant 900 MJ/h
- Retail allowances 2 x 750Mj/hr for building retail and 3rd 500Mj/hr for station retail, that's  $750 \times 2 + 500 = 2000\text{Mj/hr}$

Please let me know if you need more information from us.

Regards,

**Ray Jiang**  
Senior Engineer



M: 0437 397 314  
[Ray.Jiang@wsp.com](mailto:Ray.Jiang@wsp.com)

WSP Australia Pty Limited  
Level 27, 680 George Street  
Sydney, NSW  
2000 Australia

**wsp.com**

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---

**From:** Zachary Kennett [<mailto:Zachary.Kennett@jemena.com.au>]  
**Sent:** Thursday, 18 June 2020 11:42 AM  
**To:** Jiang, Ray <[Ray.Jiang@wsp.com](mailto:Ray.Jiang@wsp.com)>  
**Cc:** Pickering, John <[john.pickering@wsp.com](mailto:john.pickering@wsp.com)>; Ramajoo, Jonathan <[Jonathan.Ramajoo@wsp.com](mailto:Jonathan.Ramajoo@wsp.com)>; [patrick.garland@mirvac.com](mailto:patrick.garland@mirvac.com)  
**Subject:** RE: Waterloo Over Station Development - Jemena Gas Connection

Hi Ray,

I'll be looking after the Waterloo over station development applications and process on behalf of Jemena as I'm currently looking after a number of other metro stations within the city.

The preliminary serving review completed in 2018 indicated that there was enough gas supply for these buildings with supply coming from the 210 kPa network and a load of 30,000 MJ/h across the whole site with multiple connection points.

Can you please provide the estimated loads required at each of the point?

I also note that you are indicating 7kPa connection points off a 210kPa network which is not possible, the incoming connections will be at 210kPa and reduce down at either boundary regulators or meter sets within the lots.

Regards,  
**Zachary Kennett**  
Network Development Specialist – I&C  
**Jemena**  
99 Walker Street, North Sydney NSW 2060  
PO Box 1220, North Sydney NSW 2059  
Tel: 02 9867 7182 | 0409 608 399  
[www.jemena.com.au](http://www.jemena.com.au)



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**From:** Jiang, Ray <[Ray.Jiang@wsp.com](mailto:Ray.Jiang@wsp.com)>  
**Sent:** Wednesday, 17 June 2020 2:23 PM  
**To:** Neale Hilton <[Neale.Hilton@jemena.com.au](mailto:Neale.Hilton@jemena.com.au)>  
**Cc:** Pickering, John <[john.pickering@wsp.com](mailto:john.pickering@wsp.com)>; Ramajoo, Jonathan <[Jonathan.Ramajoo@wsp.com](mailto:Jonathan.Ramajoo@wsp.com)>;

[patrick.garland@mirvac.com](mailto:patrick.garland@mirvac.com); Stephen Angel <[Stephen.Angel@jemena.com.au](mailto:Stephen.Angel@jemena.com.au)>; Zachary Kennett <[Zachary.Kennett@jemena.com.au](mailto:Zachary.Kennett@jemena.com.au)>; Andrew Haigh <[Andrew.Haigh@jemena.com.au](mailto:Andrew.Haigh@jemena.com.au)>

**Subject:** RE: Waterloo Over Station Development - Jemena Gas Connection

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Hi Neale,

Refer to the email below from Andrew. Could you please provide information on the existing Jemena gas network in relation to the attached proposed gas connection requirement for this project?

Please let me know if you need more information from us.

Regards,

**Ray Jiang**  
Senior Engineer



M: 0437 397 314  
[Ray.Jiang@wsp.com](mailto:Ray.Jiang@wsp.com)

WSP Australia Pty Limited  
Level 27, 680 George Street  
Sydney, NSW  
2000 Australia

**wsp.com**

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---

**From:** Andrew Haigh [<mailto:Andrew.Haigh@jemena.com.au>]

**Sent:** Wednesday, 17 June 2020 2:05 PM

**To:** Jiang, Ray <[Ray.Jiang@wsp.com](mailto:Ray.Jiang@wsp.com)>

**Cc:** Pickering, John <[john.pickering@wsp.com](mailto:john.pickering@wsp.com)>; Ramajoo, Jonathan <[Jonathan.Ramajoo@wsp.com](mailto:Jonathan.Ramajoo@wsp.com)>; [patrick.garland@mirvac.com](mailto:patrick.garland@mirvac.com); Neale Hilton <[Neale.Hilton@jemena.com.au](mailto:Neale.Hilton@jemena.com.au)>; Stephen Angel <[Stephen.Angel@jemena.com.au](mailto:Stephen.Angel@jemena.com.au)>; Zachary Kennett <[Zachary.Kennett@jemena.com.au](mailto:Zachary.Kennett@jemena.com.au)>

**Subject:** RE: Waterloo Over Station Development - Jemena Gas Connection

Hi Ray,

As discussed, please contact Neale Hilton (cc'd). Cheers.

Regards,

**Andrew Haigh**

Commercial Manager – External Works  
Mobile: 0427413252  
Telephone : 02 9867 8573

**Jemena**

Level 12, 99 Walker Street, North Sydney, NSW 2060  
[andrew.haigh@jemena.com.au](mailto:andrew.haigh@jemena.com.au) | [www.jemena.com.au](http://www.jemena.com.au)  
[www.gonaturalgas.com.au](http://www.gonaturalgas.com.au)





Manage your gas, your way at  
[mygasservices.jemena.com.au](http://mygasservices.jemena.com.au)



---

**From:** Jiang, Ray <[Ray.Jiang@wsp.com](mailto:Ray.Jiang@wsp.com)>

**Sent:** Wednesday, 17 June 2020 1:55 PM

**To:** Andrew Haigh <[Andrew.Haigh@jemena.com.au](mailto:Andrew.Haigh@jemena.com.au)>

**Cc:** Pickering, John <[john.pickering@wsp.com](mailto:john.pickering@wsp.com)>; Ramajoo, Jonathan <[Jonathan.Ramajoo@wsp.com](mailto:Jonathan.Ramajoo@wsp.com)>;  
[patrick.garland@mirvac.com](mailto:patrick.garland@mirvac.com)

**Subject:** Waterloo Over Station Development - Jemena Gas Connection

**CAUTION:** This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and are expecting the content or attachment from the sender.

Hi Andrew,

As discussed, please find attached gas connection design requirement for this project. We are currently working on towards detailed SSD DA application submission.

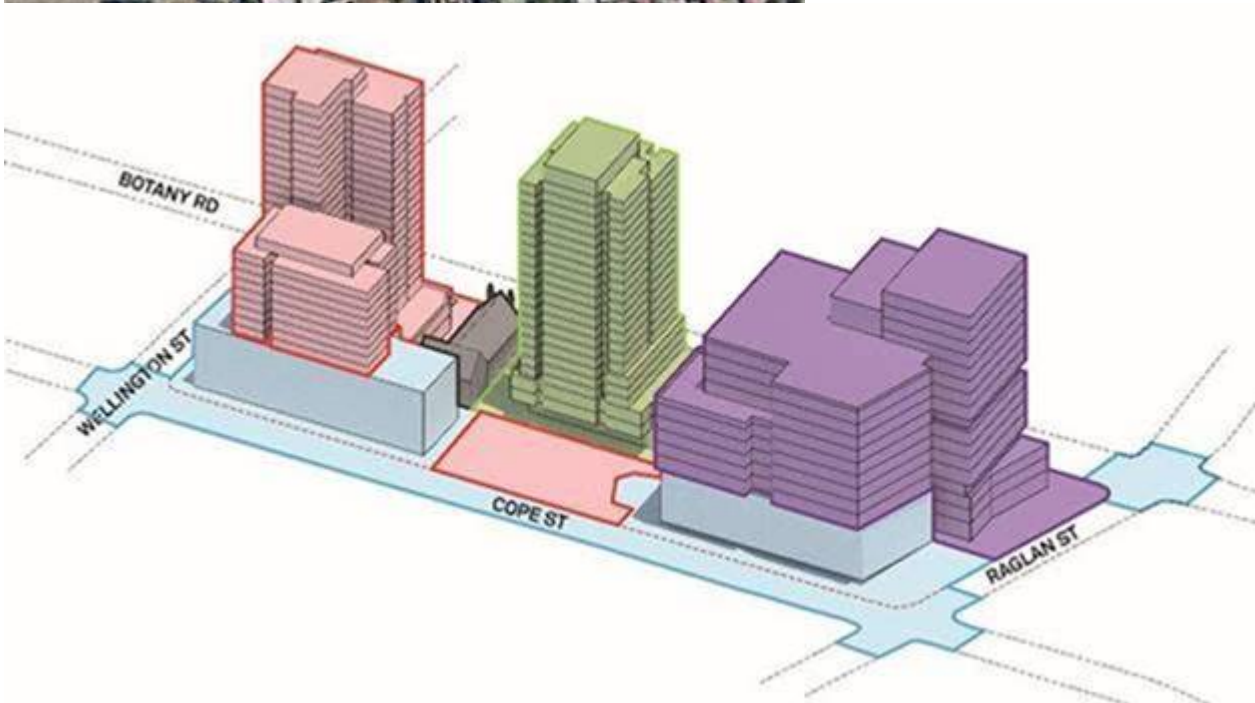
In particular, as part of the design process, we need to understand:

- What is the existing capacity of your current network in the precinct area.
- Does Jemena have any plans to upgrade its existing network in the precinct area.

Can you please refer me to an appropriate person if required.

Also, here is a bit of general overview of the Waterloo Metro Quarter project:

- podium, mid-rise and tower buildings
- excluding station floor space
- land use for non-residential and residential floor space
- social housing dwellings
- basement car parking, motorcycle parking, bicycle parking, and service vehicle spaces.



Please let me know if you need more information.

Regards,

**Ray Jiang**  
Senior Engineer



M: 0437 397 314  
[Ray.Jiang@wsp.com](mailto:Ray.Jiang@wsp.com)

WSP Australia Pty Limited  
Level 27, 680 George Street  
Sydney, NSW  
2000 Australia

[wsp.com](http://wsp.com)

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-LAEmHhHzdJzBITWfa4Hgs7pbKI

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## **Appendix 4 – Ausgrid Application for Connection AN21264**

 New Connection

## LOCATION

[Land Title Type](#)

Strata

[Lot Number](#)

7

[Nearest Cross Street](#)

Raglan St

[Location Address](#)

Botany Road, Waterloo, 2017

[Land Zoning](#)

Urban

[Location Diagram](#)

File name	Ausgrid filename reference	Size
<a href="#">Project Location.pdf</a>	LocationAttachmentFilePath_1	0.982 MB

## APPLICANT

[Applicant Type](#)

Other On Behalf Of A Retail Customer Or Real Estate Developer

[Full Name](#)

Mr Patrick Garland

[Email Address](#)

patrick.garland@mirvac.com

[ABN/ACN](#)

44637792888

[Company Name](#)

WL Developer Pty Ltd

[Street Number/RMB](#)

54

[Applicant Address](#)

Park Street Sydney 2000

[Phone Number](#)

0409510034

## CUSTOMER

[Customer Type](#)

Real Estate Developer

[Full Name](#)

Mr Tim Manning

[Email Address](#)

tim.manning@mirvac.com

[Phone Number](#)

0408273358

ABN/ACN  
44637792888  
Company Name  
WL Developer Pty Ltd

## LOAD DETAILS

Proposed Point Of Common Coupling

Substation

Proposed Asset Identifier

Unknown

Proposed Connection Point

Main Switchboard

Proposed Service Length

20

Proposed Service Type

Underground

Service Voltage

Low Voltage 230/400v

Service Size

Other (5461 A)

Proposed Maximum Demand	Number Of Phases:	Phase A:	5461	Phase B:	5461	Phase C:	5461
	3						

Proposed Maximum Demand Calculation

File name	Ausgrid filename reference	Size
200506 Bld 1 & 2 Max Demand.pdf	WFAMaxDemandCalc_1	2.921 MB

Are You Intending To Connect Controlled Load At This Premises?

No

## ADDITIONAL DEVELOPMENT DETAILS

### HOUSE SERVICES

Number Of House Service Premises:	1
Proposed Maximum Demand Number Of Phases:	3
Phase A:	5461
Phase B:	5461
Phase C:	5461
Total Number Of Premises:	1

I Will Be Installing Equipment At The Premises That May Result In Non Linear / Fluctuating Loads

No

Construction Of The Premises Connection Assets Will Commence

16-Aug-2021

When Do You Wish To Electrify The Premises?

14-Sep-2021

Ausgrid Has Provided A Certified Design Number(Cdn) For A Network Augmentation Project Associated With The Premises

No

Asp 1 Has Been Appointed

No

Do You Have Development Consent (Da) For Your Proposal?

No

Do You Wish To Underground / Relocate Electricity Assets In Conjunction With This Connection Application?

Yes

Underground / Relocation Details

Install 3x 1500kva Standard Surface Chamber Distribution Substation. Redirect Existing Underground 11kv Feeder In The Street.

Comments

Building 1 Is Commercial Retail And Building 2 Is Market Residential Affordable Housing Community. We Propose A Surface Chamber Substation Of 3 X 1500 Kva Tx'S. (Please See Our Proposed Layout).

Please attach any documents that are relevant to your connection for example Proposed Design, sketch of the building, Photos etc

File name	Ausgrid filename reference	Size
200409_BLD1 Floor Plans.pdf	AdditionalAttachment_1	6.025 MB
Bld 1 & 2.pdf	AdditionalAttachment_2	0.228 MB
CHAMBER SUBSTATION LAYOUT OPTIONS_20200427.pdf	AdditionalAttachment_3	0.267 MB

EXPEDITED CONNECTION

Do you want to expedite your connection offer for all premises?

☒ Yes ☐ No

Basic connection services - 100 Amps connections  
(Download here)

☐

\* Basic connection services - over 100 Amps connections  
(Download here)

☒

Basic connection services - Micro EG connections (Download here)

☐

Standard connection services - Ausgrid augmentation  
(substation upgrade) (Download here)

☐

Standard connection services - offsite Ausgrid augmentation works (Download here)

☐

Standard connection services - contestable ASP1 connections (Download here)

☐

I do not know which one of these offers is relevant

☐

DECLARATION

Applicant Name

Mr Patrick Garland

Application Date

25-May-2020

Price Description

Above 100 Amps Connection Offer - Technical Assessment required 1 x 452.80

Total Price

Price Including GST

AUD \$452.80

AUD \$452.80

Terms and Conditions:

In submitting this application you are engaging Ausgrid to provide you with a connection offer. Once submitted the fee charged is consumed. Ausgrid will aim to provide you with a written response within 10 business days. If additional work and/or fees are required, we will contact you to advise prior to providing the response.

Where this application requests an expedited connection, I declare that I have read and understood the terms and conditions of the connection offer and agree that if the connection is expedited that a contract based on that offer will be formed with Ausgrid on the date that Ausgrid receives the application. Where this application is being made on behalf of a retail customer or real estate developer, I declare that I have obtained the authority of that person to make this application of their behalf, including where applicable, making a request for expedition of the connection application.

\*I acknowledge the terms & conditions.



## PROPOSED DESIGN SCOPE

DATE:

To: Ausgrid - Contestable Connections  
[contestability@ausgrid.com.au](mailto:contestability@ausgrid.com.au)

From: ASP Company:  
 ASP Representative:  
 Authorisation Number:  
 Phone:  
 Email:

Ausgrid reference:

<b>Project Description:</b>	
<b>Project Address:</b>	

<b>Connection Details</b>	<input type="checkbox"/> HV Supply (i.e. HVC) <input type="checkbox"/> LV Supply			Include description of existing and proposed load fields below
Existing Load:	Phases	Amps		
Proposed Load:	Phases	Amps		
Total:		Amps	Proposed connection Date:	

<b>HV Proposal</b>	
<b>Proposed Distribution Centre:</b> include substation type, size, LV panel layout (e.g. L type kiosk, 1000kVA, 1600/400 panels)	
<b>Proposed Zone/Feeder:</b>	
<b>HV Network Proposal:</b> describe the HV connection proposal (e.g. loop in new new substation between HS01234 and HS09876)	
<b>HV Relocation Proposal:</b>	

<b>LV and/or SL Proposal, including comms</b>	
LV and/or SL Network Proposal:	
LV/SL Relocation Proposal:	

Does this proposal involve modification of Ausgrid's transmission, ADSS or pilot cable system(s)? <input type="checkbox"/> YES <input type="checkbox"/> NO If YES, please include on sketch	
Do you require fault level information that is not on WebGIS:? <input type="checkbox"/> YES <input type="checkbox"/> NO	

<b>Attachments:</b> Items marked with X are mandatory Items with * asterisk are mandatory if applicable to the project type/application	<input checked="" type="checkbox"/> Sketch - proposed method of connection* <input type="checkbox"/> Sketch - System Diagram (for HV works)* <input checked="" type="checkbox"/> Connection Application <input type="checkbox"/> includes large/disturbing loads* <input checked="" type="checkbox"/> Design Contract Acceptance	<input type="checkbox"/> Master plan (if multi stage subdivision)* <input type="checkbox"/> Photographs <input type="checkbox"/> Development Site Plans <input type="checkbox"/> Other
---	--	---

<b>Ausgrid Use Only</b>	Date Offer Accepted:	Load Cycle:
	Ausgrid Project Number:	CPC:
<b>Planning: Response / Comments / Recommendations: (use additional pages if necessary)</b>		

## PRELIMINARY MAXIMUM DEMAND SUMMARY PAGE

**Project** Waterloo Integrated Station Development (MQD Works)  
**Aurecon Reference** 509191  
**Client** Mirvac  
**Revision** 3  
**Date** Wednesday, 6 May 2020



### Building 1 Summary

Building 1 GFA (m2)	40060
Basement GBA (m2)	9530
Building Load (kVA)	3075
Building Load (A)	4438

Substation Size (kVA)	3 x 1500
Substation Capacity (A)	5500

Assumed firm rating

### Building 2 Summary

Building 2 GFA (m2)	17447
Building Load (kVA)	1012
Building Load (A)	1460

### Site Summary

Site Load (kVA)	4087
Diversity Factor	0.7
Diversified Maximum Demand (kVA)	3783
Diversified Maximum Demand (A)	5461

Diversity factor applied to Building 2 Load

Spare Capacity	0.7%
----------------	------

## BUILDING 1 MAXIMUM DEMAND

**Project**  
**Aurecon Reference**  
**Client**  
**Revision**  
**Date**

Waterloo Integrated Station Development (MQD Works)  
509191  
Mirvac  
3  
Wednesday, 6 May 2020



### Notes

- 1 - All VA/m2 rates include lighting and small power only unless noted otherwise
- 2 - GFAs are based upon the Woods Bagot architectural set issued on 09.04.2020 (Aconex ref: WB-MEMO-000046)
- 3 - Mechanical loads are based upon the systems described in the 'Building 1 Mechanical Scheme Concept Design report rev 0' (Aconex ref: Aurecon-CADV-000010) and includes the additional tenant future cooling towers and associated pumps
- 4 - Hydraulic loads are based upon the Building 1 Hydraulic services spatial planning register [05] (Aconex ref: WSAP-MEMO-000013)

Level	Area	GFA (m2)	VA/m2	Total (kVA)	Comments
P2	Basement	4765	10	47.65	GBA not GFA, GFA TBC
P1	Basement	4765	10	47.65	GBA not GFA, GFA TBC
GF	Retail (Bld 1)	653	60	39.18	Lighting and small power only
GF	Retail (Metro)	439	60	26.34	GFA pending latest set of metro floor plans
GF	Community	250	60	15.00	Allowance as per retail allowance for future conversion to retail if needed
GF	Lobby	255	25	6.38	Small power and lighting in lobby with allowance for feature lighting
GF	BOH	956	15	14.34	General lighting, loading dock power, managers office, compactor
GF	Amenities	39	15	0.59	General lighting and hand dryers etc
Mezz	BOH	146	10	1.46	
1	Commercial	892	40	35.68	
1	Fire Stairs	57.5	5	0.29	
1	Lobby	74	12	0.89	
1	Communal work area	577	30	17.31	Lower density then typical commercial floor
1	Management	50	40	2.00	
1	Amenities	126	15	1.89	
2	Commercial	1565	40	62.60	
2	Fire Stairs	53	5	0.27	
2	Lobby	144	15	2.16	
2	Amenities	80	15	1.20	
3	Commercial	1483	40	59.32	
3	Fire Stairs	53	5	0.27	
3	Lobby	79	15	1.19	
3	Amenities	80	15	1.20	
4	Commercial	3181	40	127.24	PCA A Grade Requirement for lighting and small power
4	Fire Stairs	53	5	0.27	Lighting within fire stairs
4	Lobby	79	15	1.19	Lighting in lobby with allowance for feature lighting
4	Amenities	103	15	1.55	General lighting and hand dryers etc
5	Commercial	3181	40	127.24	
5	Fire Stairs	53	5	0.27	
5	Lobby	79	15	1.19	
5	Amenities	103	15	1.55	
6	Commercial	3181	40	127.24	
6	Fire Stairs	53	5	0.27	
6	Lobby	79	15	1.19	
6	Amenities	103	15	1.55	
7	Commercial	3181	40	127.24	
7	Fire Stairs	53	5	0.27	
7	Lobby	79	15	1.19	
7	Amenities	103	15	1.55	
8	Commercial	3081	40	123.24	
8	Fire Stairs	53	5	0.27	
8	Lobby	79	15	1.19	
8	Amenities	103	15	1.55	
9	Commercial	2475	40	99.00	
9	Fire Stairs	53	5	0.27	
9	Lobby	79	15	1.19	
9	Amenities	103	15	1.55	
9	Terrace	552	2	1.10	Minimal outdoor lighting only
10	Commercial	2528	40	101.12	
10	Fire Stairs	52	5	0.26	

10	Lobby	79	15	1.19	
10	Amenities	103	15	1.55	
11	Commercial	2528	40	101.12	
11	Fire Stairs	52	5	0.26	
11	Lobby	79	15	1.19	
11	Amenities	103	15	1.55	
12	Commercial	2528	40	101.12	
12	Fire Stairs	52	5	0.26	
12	Lobby	79	15	1.19	
12	Amenities	103	15	1.55	
13	Commercial	693	40	27.72	
13	Fire Stairs	52	5	0.26	
13	Lobby	136	15	2.04	
13	Amenities	103	15	1.55	
13	Terrace	1665	2	3.33	Minimal outdoor lighting only
14	Plant	750	5	3.75	Plant lighting
14	Commercial	250	40	10.00	Allowance for extra commercial space
15	Plant	270	5	1.35	Plant lighting
	Lifts			130.00	Assumed on 20kW per lift, 11 lifts. Final load to be confirmed by WSP
P1	EV Chargers			57.50	5% (9) of total car parks. Assumed 7.5kW chargers
	<b>Total Building 1 GFA</b>	40060	m2		Excludes Metro and Basement
		<b>Total Mech</b>		1,250.80	kVA
		<b>Total Hyd</b>		139.33	kVA
		<b>Total Commercial MD</b>		3,075	kVA
				4,438	Amps

## BUILDING 2 MAXIMUM DEMAND

<b>Project</b>	Waterloo Integrated Station Development (MQD Works)
<b>Aurecon Reference</b>	509192
<b>Client</b>	Mirvac
<b>Revision</b>	3
<b>Date</b>	Wednesday, 6 May 2020



### Notes

- 1 - All VA/m2 rates include lighting and small power only unless noted otherwise
- 2 - All VA/apt loads include lighting and power only unless noted otherwise
- 3 - GFAs and apartment numbers are based upon Hassel architectural set issued on 27.04.2020 (Aconex ref: HSL-RESP-000020)
- 4 - Mechanical loads are based upon the systems described in the 'Building 2 Mechanical Scheme Concept Design report rev 0' (Aconex ref: Aurecon-CADV-000009) and includes increased retail K/E provisions
- 5 - Hydraulic loads are based upon the Building 2 Hydraulic services spatial planning register [03] (Aconex ref: WSAP-MEMO-000013)
- 6 - Apartment loads include the use of induction cooktops

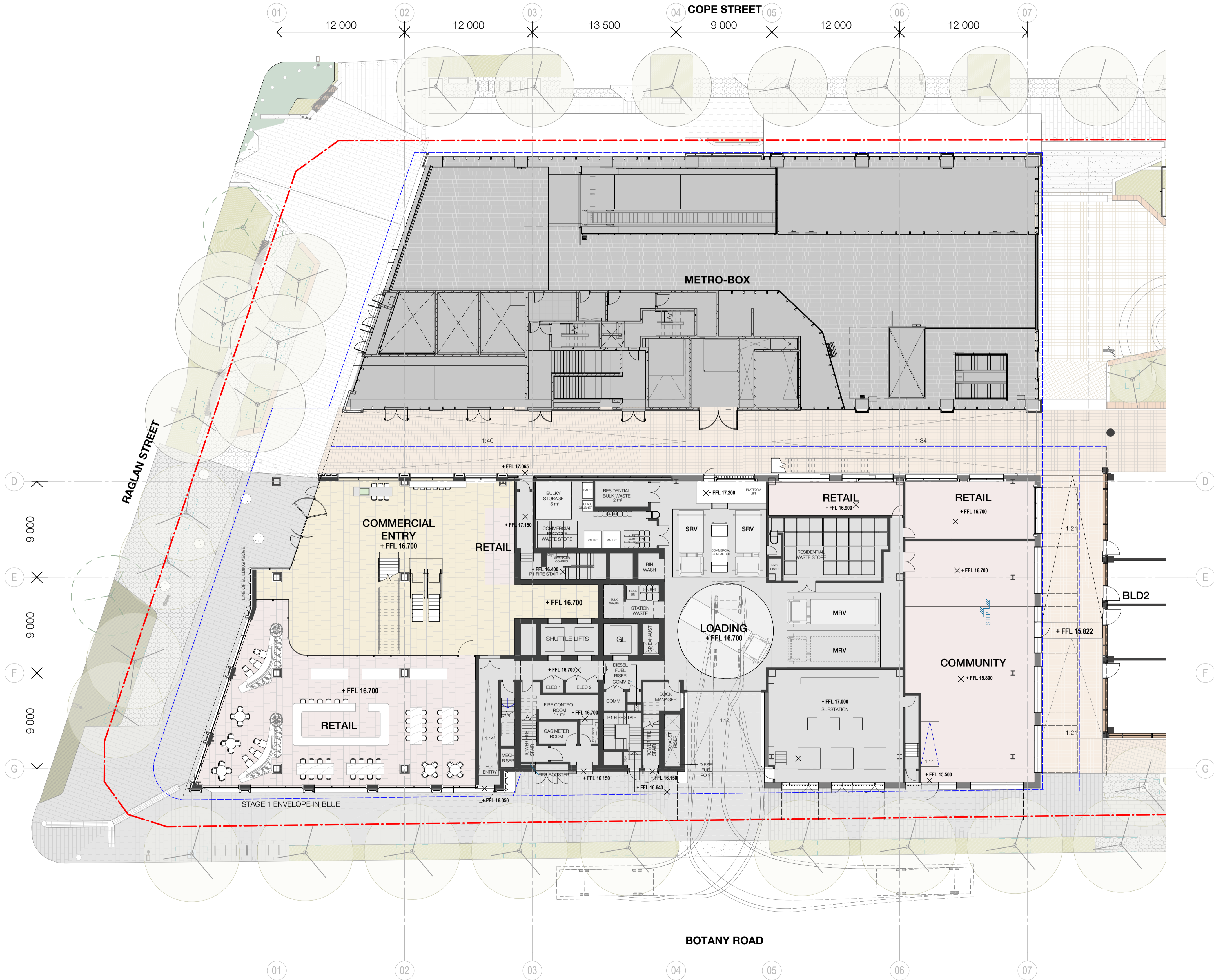
Level	Space	GFA (m2)	VA/m2	kVA	Notes
GF	Retail	554	60	33.2	Lighting and small power only
GF	Community	97	20	1.9	Lighting and small power to community space
GF	Lobby	68	25	1.7	Small power and lighting in lobby with allowance for feature lighting
GF	Stair case and meter room	65.5	5	0.3	Lighting within stairs and meter room
GF	Fire Control Room	13	40	0.5	Lighting and small power for workstation
GF	Amenities	47	15	0.7	General lighting and hand dryers etc
1	Childcare	555	40	22.2	
1	Lobby	81.5	15	1.2	
1	Childcare Terrace	615	5	3.1	
1	Stair Case	35	5	0.2	
2	Childcare	519	40	20.8	
2	Lobby	81.5	15	1.2	
2	Childcare Terrace	583	5	2.9	
2	Stair Case	35	5	0.2	
22	Shared Amenity	51	20	1.0	Lighting and small power to shared space
23	Plant	469	5	2.3	Plant lighting
	Apt Lobby Lighting	1080	5	5.4	
	Apt Stair Case	320	5	1.6	
	Lifts			55.8	Assumed 20kW per lift, 3 lifts. Final load to be confirmed by WSP
	<b>Total GFA</b>	17447	m2		
	<b>No. of Apts</b>		<b>VA/apt</b>		
3	Affordable Apartments	9	1400	12.6	
4	Affordable Apartments	9	1400	12.6	
5	Affordable Apartments	9	1400	12.6	
6	Apartments	8	1400	11.2	
7	Apartments	8	1400	11.2	
8	Apartments	8	1400	11.2	
9	Apartments	8	1400	11.2	
10	Apartments	8	1400	11.2	
11	Apartments	8	1400	11.2	
12	Apartments	8	1400	11.2	
13	Apartments	8	1400	11.2	
14	Apartments	8	1400	11.2	
15	Apartments	8	1400	11.2	
16	Apartments	8	1400	11.2	
17	Apartments	8	1400	11.2	
18	Apartments	8	1400	11.2	
19	Apartments	8	1400	11.2	
20	Apartments	6	1400	8.4	
21	Apartments	6	1400	8.4	
22	Apartments	2	2100	4.2	Based on apartments being 1.5x the size of typical level apartment
	<b>Total Apartments</b>	153			
	<b>Total Mech</b>			550.7	kVA
	<b>Total Hyd</b>			89.2	kVA

Total Residential MD	1011.8	kVA
	1460.4	A

Per apartment maximum demand calculations as per AS/NZS 3000 Table C1

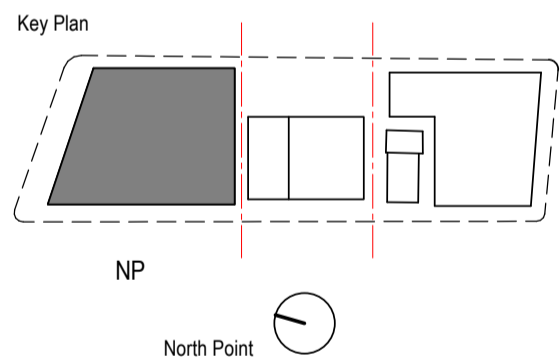
Apartments	155
Worst Loaded phase	52

Load Group	Load	Column	Load (A)	Total A	
A i	Lighting	5	0.5 per unit	26	
B i	Socket Outlets ≤10A	5	50 + 1.9per unit	148.8	
C	Cooking appliances and outlets >10A	5	2.8 per unit	145.6	
				320.4	A/ph
				222.0	kVA
				1.4	kVA/apartment



Recent revision history		
#	Status	Description
A	FOR INFORMATION	30.03.20
B	FOR INFORMATION	05.05.20
C	FOR INFORMATION	12.05.20
D	FOR INFORMATION	02.06.20
E	FOR INFORMATION	17.06.20

Notes  
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Contractor must verify all dimensions on site before commencing work or preparing shop drawings.  
Do not scale drawings.



Consultant  
**WOODS BAGOT**

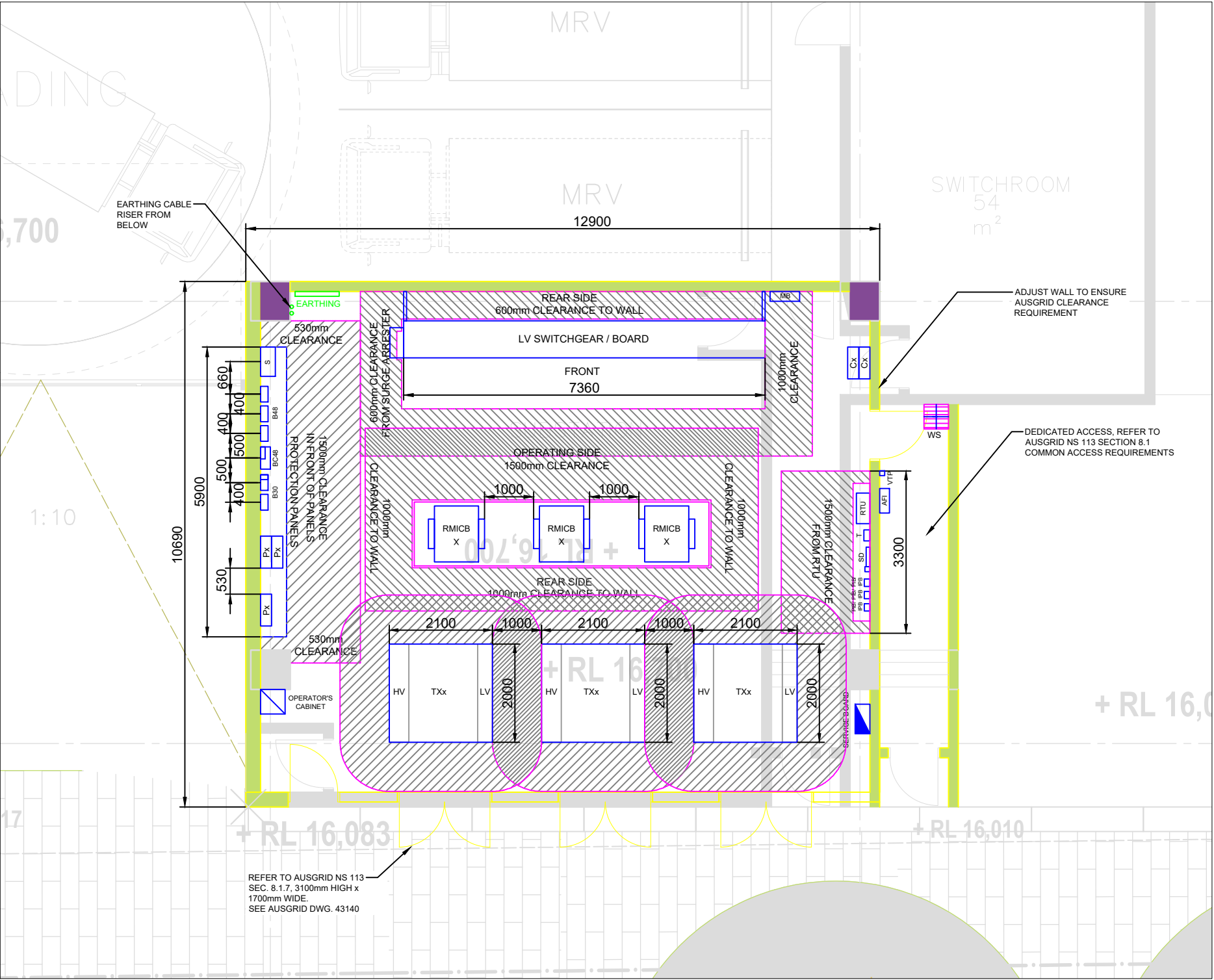
Project  
WATERLOO METRO QUARTER DEVELOPMENT

Project number	Size check
121234	25mm
Checked	Approved
DH	PM
Sheet size	Scale
A1	1 : 200

Sheet title

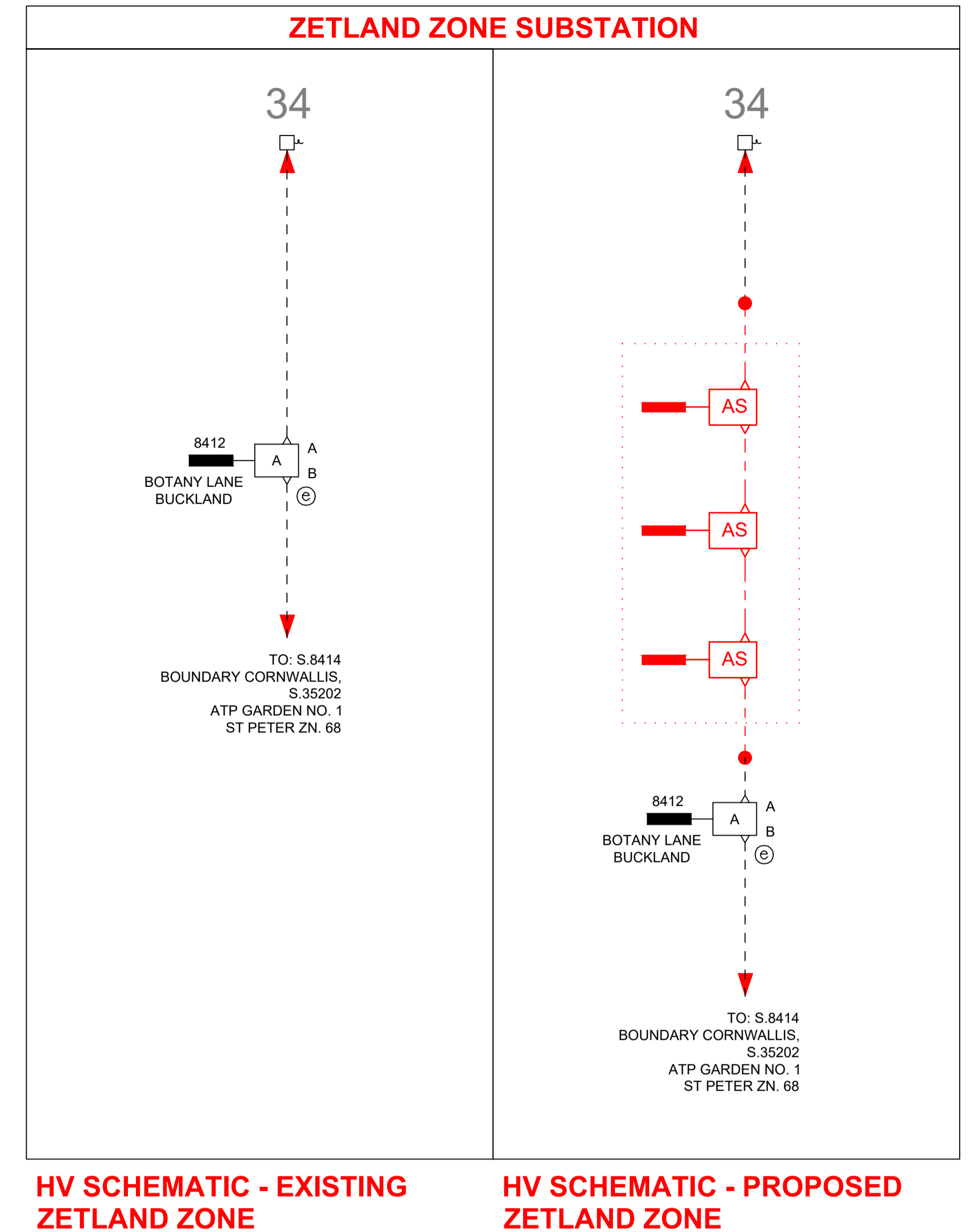
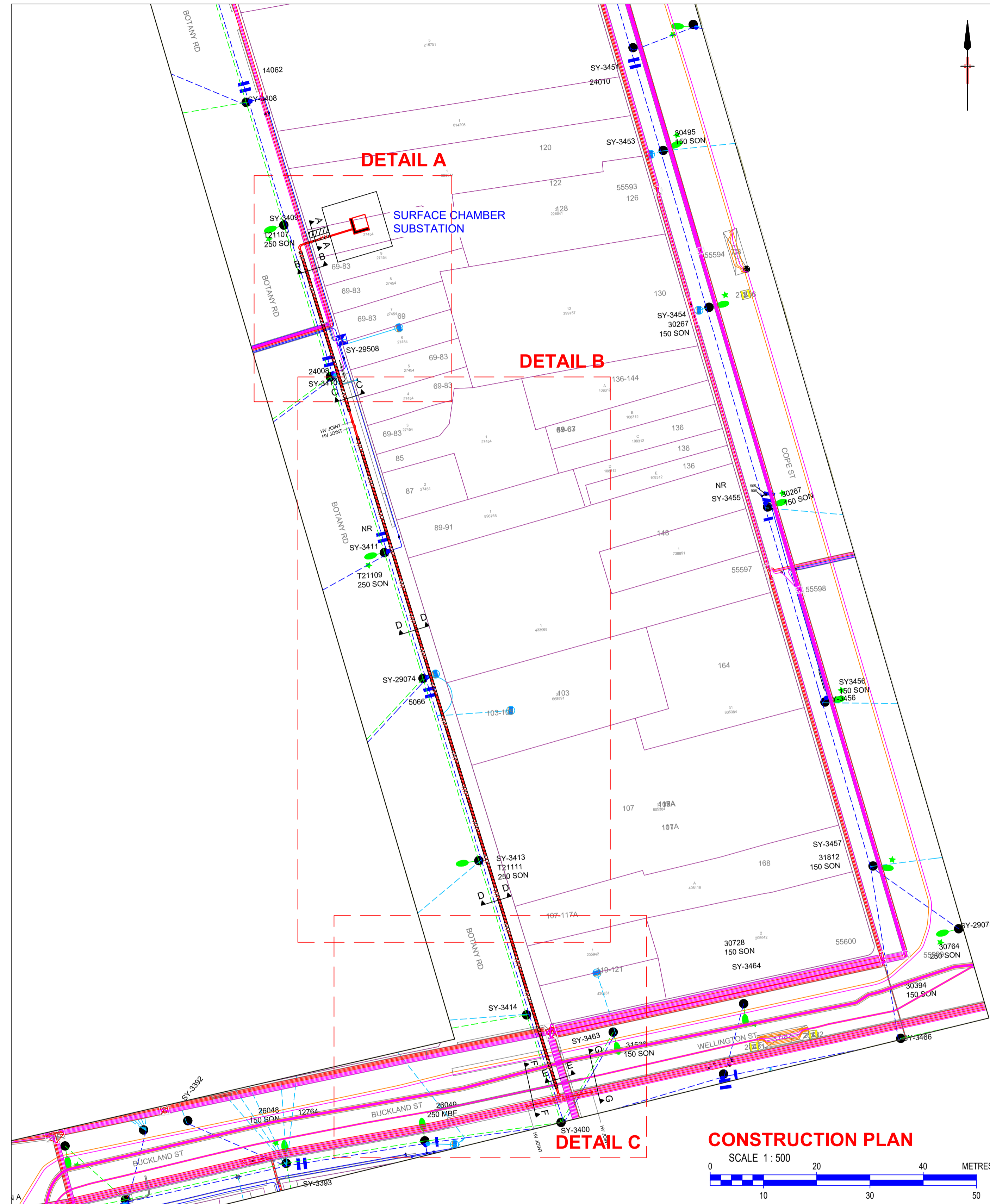
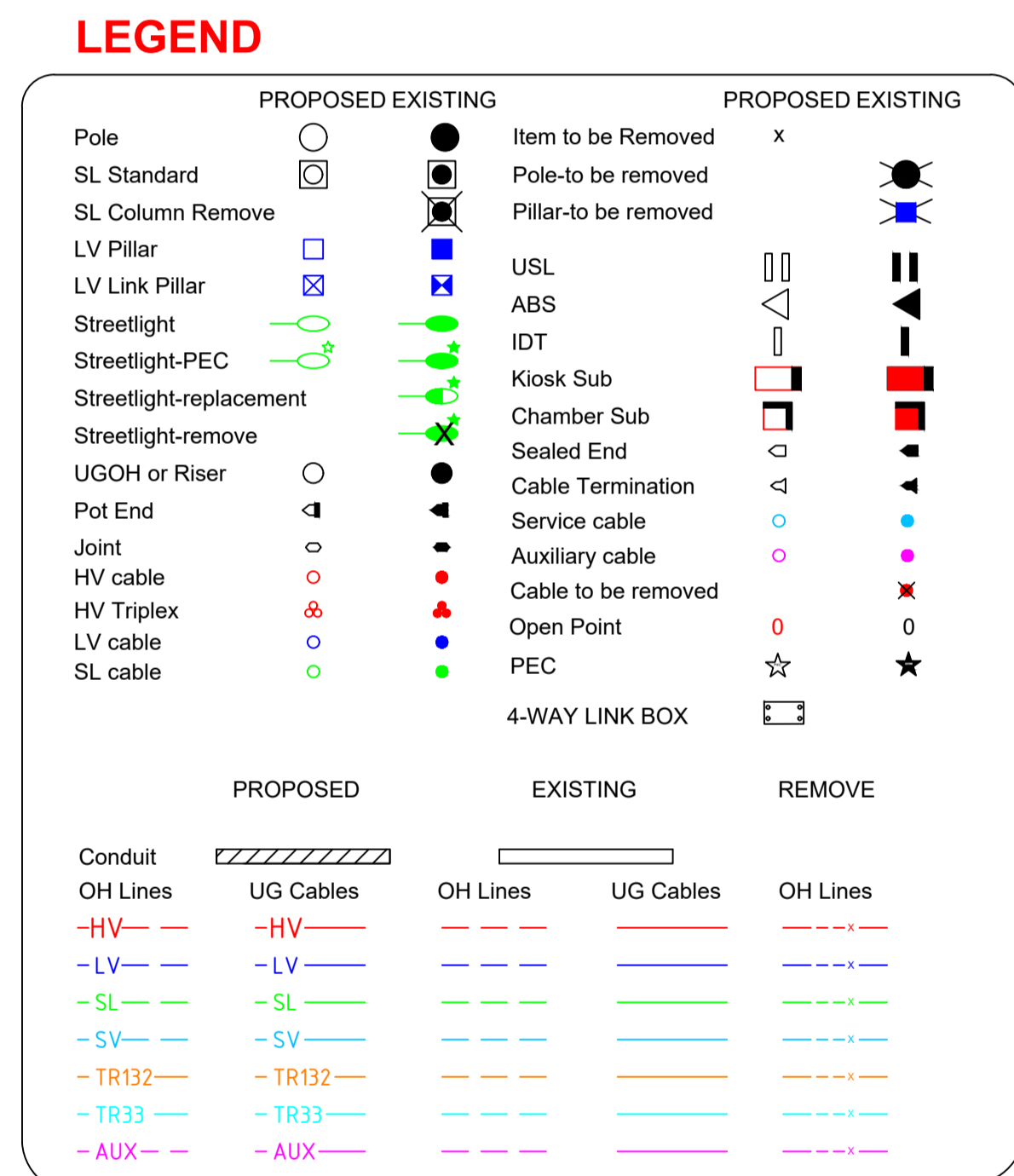
BUILDING 1 - GROUND LEVEL

Status  
FOR INFORMATION  
Sheet number  
WMQ-BLD1-WBG-AR-DRG-A1000  
Revision  
E




BC30	BATTERY CHARGER A
B30	30V DC 'A' BATTERY
BC48	BATTERY CHARGER B
B48	48V DC 'B' BATTERY
Px	PROTECTION PANEL
Cx	CUSTOMER OVERCURRENT No. x PROTECTION PANEL
AFI	ARC FAULT INDICATOR
VTP	VOLTMETER / TEST POINT FOR 30V DC 'A' BATTERY
MB	MARSHALLING BOX
WS	WATER SERVICE
SD	SIGNALLING DISCONNECTION BOX
S	SCADA PANEL
PIB	PILOT ISOLATION BOX
IPB	INTERCONNECTOR PILOT BOX
RTU	C50 REMOTE TERMINAL UNIT
T	TELEPHONE
HV	HIGH VOLTAGE
LV	LOW VOLTAGE
TXx	TRANSFORMER
RMICB	RING MAIN ISOLATOR CIRCUIT BREAKER
WS	WATER SERVICE

SUBSTATION LAYOUT  
OPTION 1



**CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING**

CAD DRAWING NO. 20160817 AMENDMENTS											 ASP # 5045 Lvl 27, 680 George St, Sydney, NSW, 2000 PO Box 5394, Sydney, NSW 2001, Australia Tel: +61 2 9572 5100 Fax: +61 2 9572 5101 www.wspgroup.com/asia-pacific	DESIGNED BY		ESTABLISH SURFACE CHAMBER SUBSTATION BOTANY ROAD, WATERLOO					
										AUTH NO.			SUBMITTED / / WATERLOO 297 F10 SY43						
										SUBMIT DATE									
										LGA									
										MAP REF.									
										AUSGRID REF.									
									PRJ/TRAK No.										
									ASP REF.	PS119449									
							ASSOCIATED DRAWINGS			CERTIFICATION NUMBER			## / ##		SIZE A1	AUSGRID PROJECT No.		SHEETS 1 of 3	AMD. 0
20160817	1	2	3	4	5	6	7	8	9	10	11	12							



**WARNING UNDERGROUND TRANSMISSION CABLES PRESENT**

FOR WORK NEAR TRANSMISSION CABLES IT IS COMPULSORY TO ARRANGE FOR AN AUSGRID REPRESENTATIVE TO ATTEND THE WORKSITE. CONTACT WITH AUSGRID MUST BE MADE AT LEAST TWO WEEKS BEFORE WORK COMMENCES ON SITE. PHONE THE AUSGRID TRANSMISSION ENQUIRIES LINE ON (02) 4951 9200 TO ARRANGE FOR AN AUSGRID REPRESENTATIVE IN YOUR REGION.

THIS IS TO ENSURE THE WORK IS UNDERTAKEN SAFELY AND SO AS NOT TO ENDANGER THE CABLES OR WORKERS. THE RELEVANT DETAILS SHOULD BE PROVIDED AND THE REPRESENTATIVE'S ATTENDANCE ARRANGED. A REGULATED CHARGE WILL BE MADE FOR THIS SERVICE.

BOTANY RD

SY-3414

SY-3463

SY-3400

31526

150 SC

BUCKLAND ST

26049

250 MBF

19-121

436831

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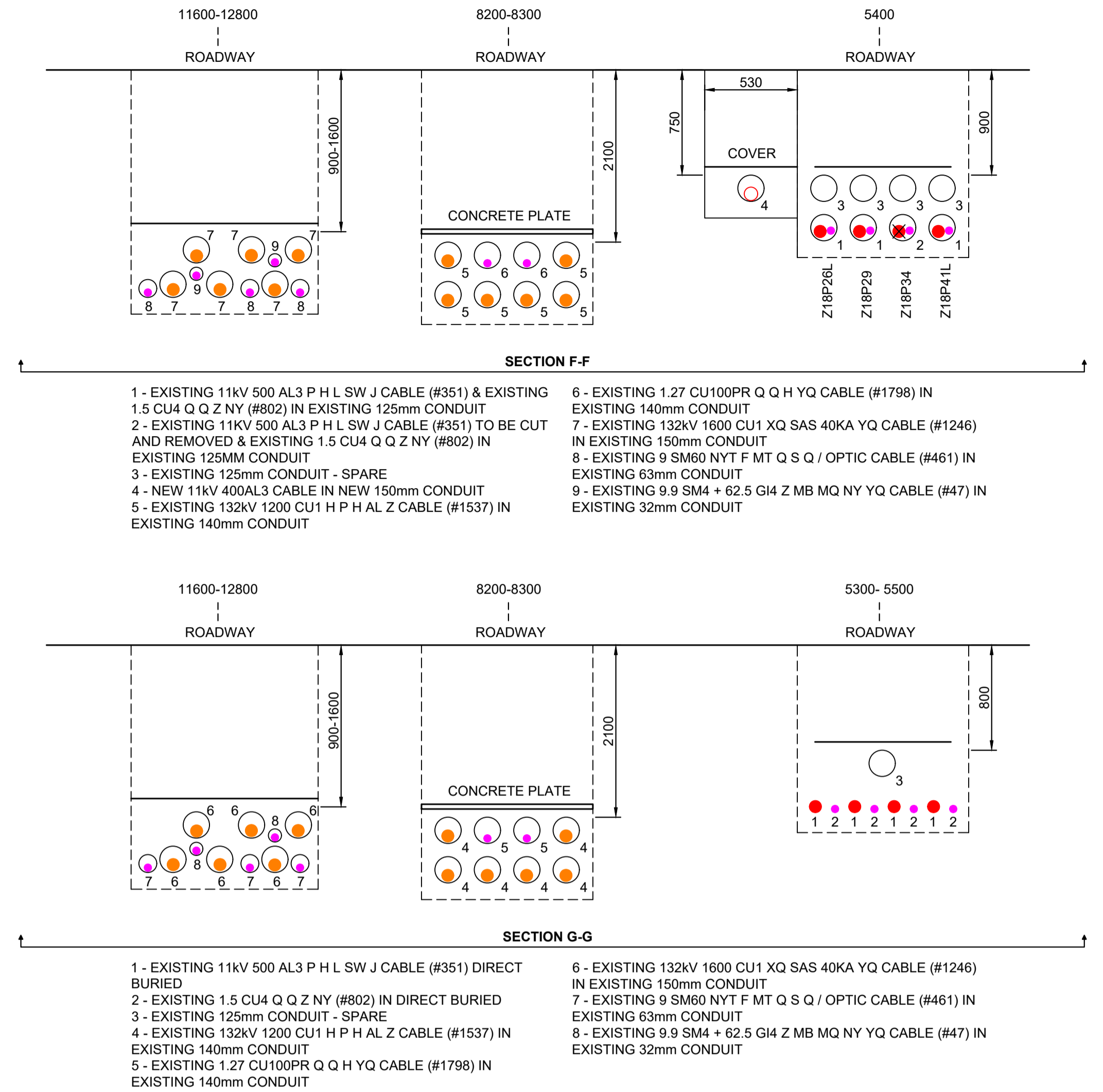
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IN JOINT

OUT JOINT

SCALE 1 : 250

0 5 10 15 20 25 METRES



**LAD DRAWING**  
DO NOT MANUALLY AMEND  
**AMENDMENTS**

SHEETS	AMD.
3 of 3	0



## **Appendix 5 – Utilities Survey**

ADJOINS SHEET 36

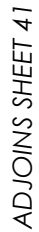
ADJOINS SHEET 38



<b>ISSUE</b>	<b>DATE</b>	<b>AMMENDMENT</b>	<b>BY</b>	<p><b>DISCLAIMER:</b></p> <p>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES. AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</p>	 <p>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</p> <p>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</p>	<p>CLIENT</p> <div style="text-align: center;">  </div>	<p><b>PROJECT TITLE</b></p> <p>WATERLOO STATION</p> <p>WATER</p> <p><b>DRAWING TITLE</b></p> <p>SUB-SURFACE UTILITY PLAN</p>	 <p>SCALE IN METERS 1: 250</p> <p>LOCATED BY: L.B.</p> <p>SURVEYED BY: Y.M./A.D.</p> <p>DRAFTED BY: J.V.</p> <p>CHECKED BY: K.S./B.M./J.A.</p> <p>APPROVED BY: D.M.</p>	 <p><b>THIS PLAN DOES NOT REPLACE DBYD PLANS</b></p> <p>JOB NUMBER <b>202254</b></p>	<p>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</p> <p>DATE OF SURVEY: 24/06/2020      DATE OF PLAN: 03/06/2020</p> <p>HEIGHT DATUM: AHD71                  CO-ORD: MGA94</p> <p>DBYD JOB # : 19449303/22/34      DBYD DATE: 30/04/2020</p> <p>ORIGINAL SIZE : A3                      SHEET: 37 OF 75</p> <p>DRAWING NUMBER / ISSUE 202254-UTILS-001A</p>
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							



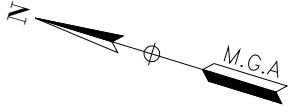
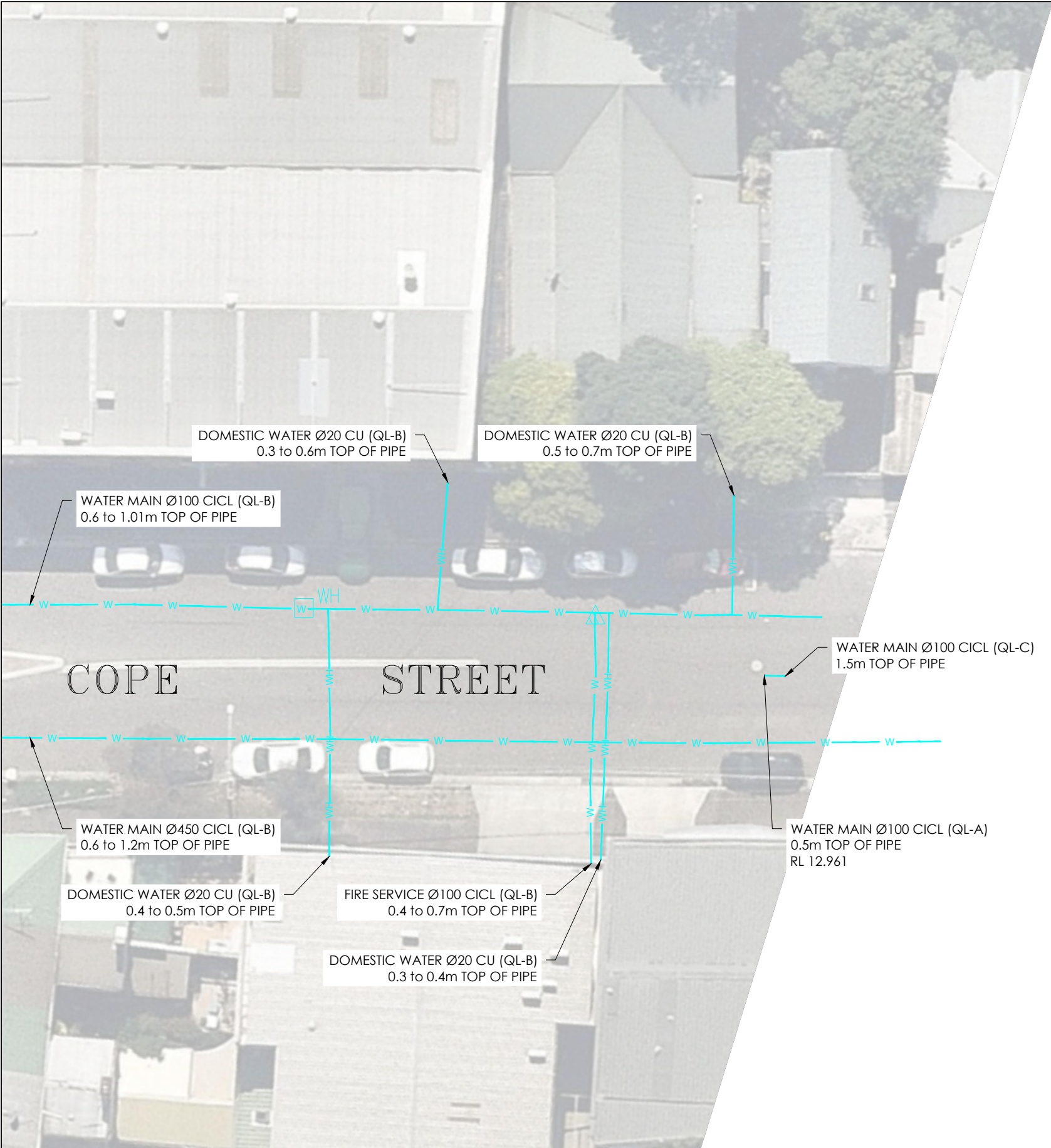
ISSUE	DATE	AMMENDMENT	BY	<div>DISCLAIMER:</div> <div>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</div>	<div><div>veris</div><div>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128  T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</div></div>	CLIENT	PROJECT TITLE	<div><div>0246810</div><div>SCALE IN METERS 1: 250</div></div>	<div><div><div>DIAL BEFORE YOU DIG</div><div>www.1100.com.au</div></div><div>THIS PLAN DOES NOT REPLACE DBYD PLANS</div></div>	<div>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</div>	
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.				DATE OF SURVEY: 24/06/2020				DATE OF PLAN: 03/06/2020
							HEIGHT DATUM: AHD71				CO-ORD: MGA94
										DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
										ORIGINAL SIZE: A3	SHEET: 38 OF 75
										JOB NUMBER	DRAWING NUMBER / ISSUE
										202254	202254-UTILS-001A
							DRAWING TITLE				
							WATERLOO STATION				
							WATER				
							SUB-SURFACE UTILITY PLAN				



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SIGNAL / COMMS CABLE RUNNING IN GROUND LEVEL TROUGHING DEPTHS ARE INDICATIVE ONLY AND SHOULD BE USED FOR DESIGN PURPOSES ONLY.  
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4. STORMWATER HAS ONLY BEEN INVESTIGATED AT PITS WHERE ACCESSIBLE. TO VERIFY DRAINAGE NETWORK CCTV INVESTIGATION MAY BE REQUIRED TO CONFIRM ALIGNMENTS AND CONNECTIVITY.
5. TO CONFIRM DEPTH & POSITION OF ALL LOCATED UTILITIES, POTHOLING IS HIGHLY RECOMMENDED.
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							WATER	SURVEYED BY: Y.M./A.D.		
							DRAWING TITLE	DRAFTED BY: J.V.		
							SUB-SURFACE UTILITY PLAN	CHECKED BY: K.S./B.M./J.A.		
								APPROVED BY: D.M.	JOB NUMBER 202254	DRAWING NUMBER / ISSUE 202254-UTILS-001A

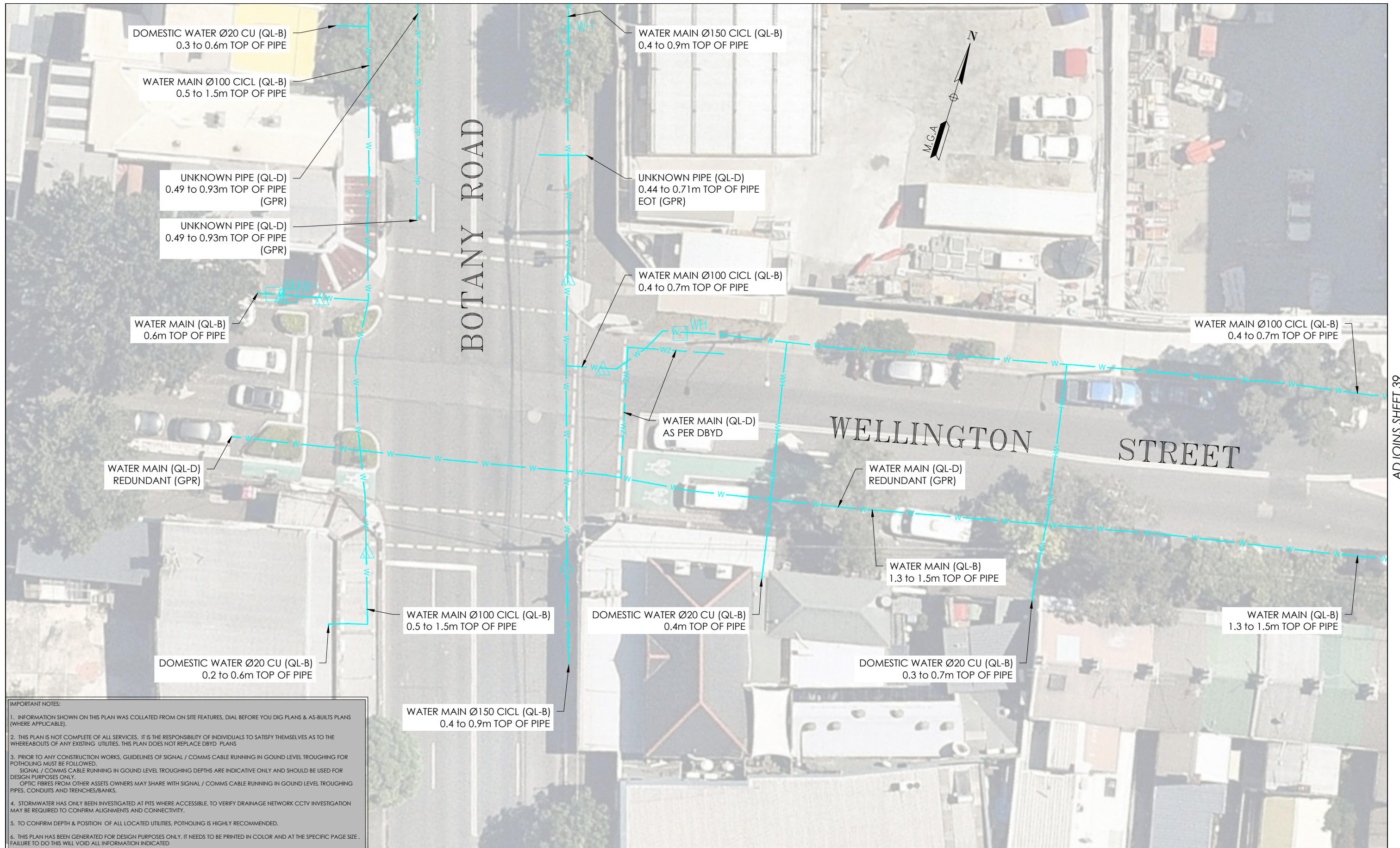
ADJOINS SHEET 39






**IMPORTANT NOTES:**

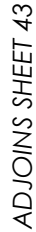
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							WATER						HEIGHT DATUM: AHD71	CO-ORD: MGA94				
							DRAWING TITLE						DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020				
							SUB-SURFACE UTILITY PLAN						ORIGINAL SIZE: A3	SHEET: 40 OF 75				
													JOB NUMBER	DRAWING NUMBER / ISSUE				
													202254	202254-UTILS-001A				



ADJOINS SHEET 39

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A	03/08/20	ORIGINAL UTILITIES PLAN	J.V.							

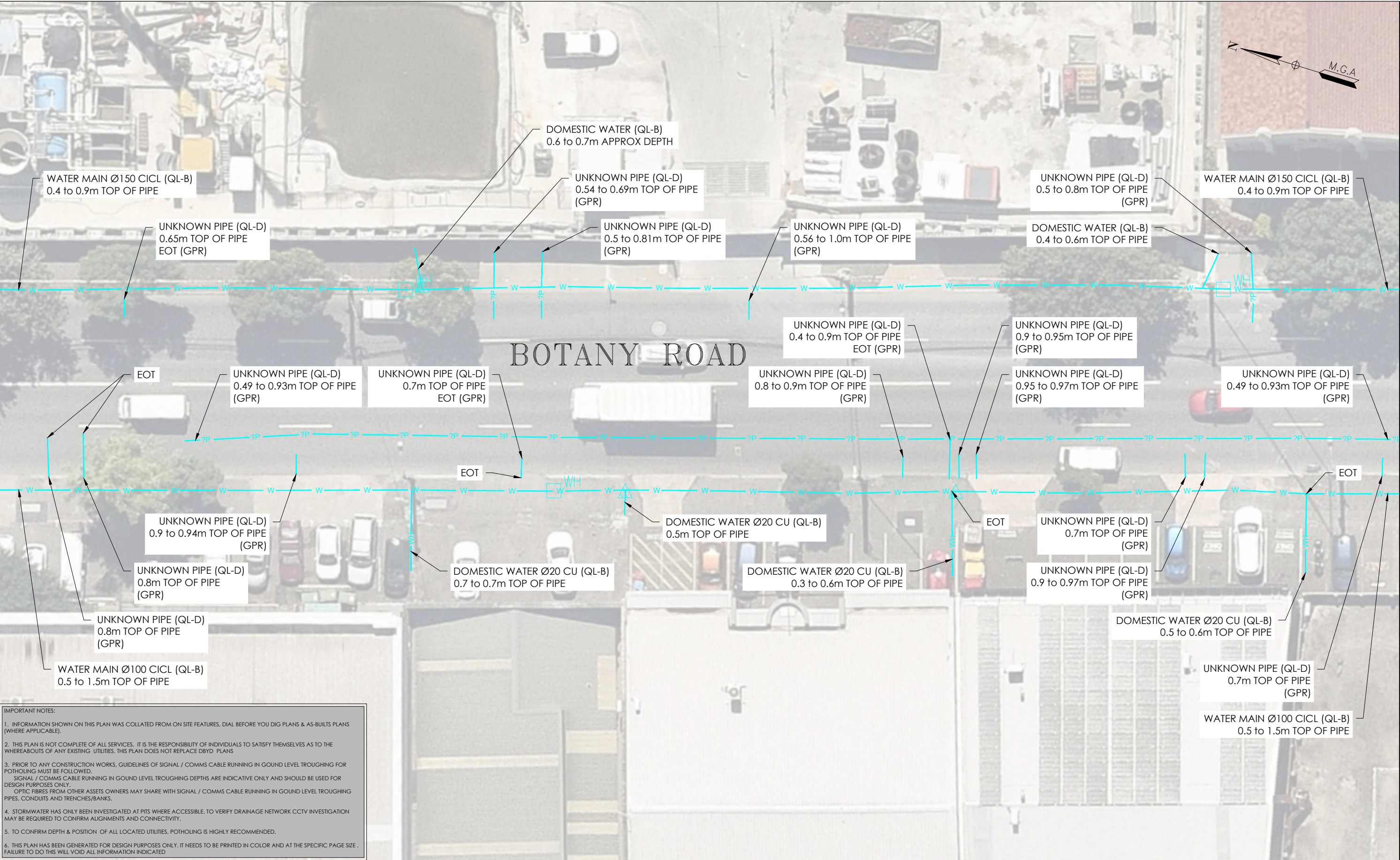
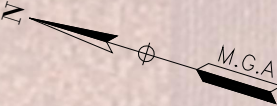


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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							

ADJOINS SHEET 44

ADJOINS SHEET 42

BOTANY ROAD



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ABN 53 615 735 727

CLIENT

**JOHN HOLLAND**

PROJECT TITLE
WATERLOO STATION
WATER
DRAWING TITLE
SUB-SURFACE UTILITY PLAN

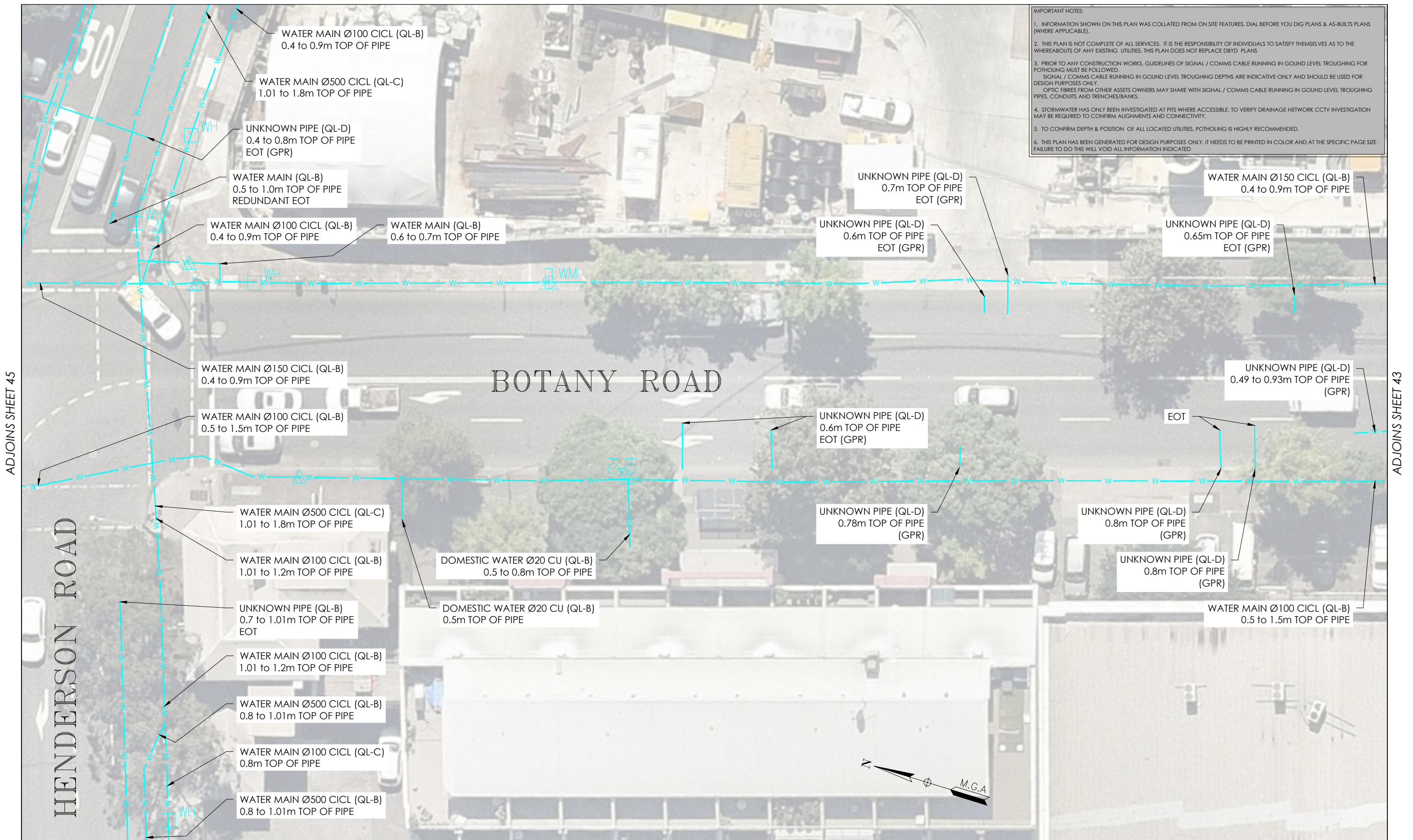
0 2 4 6 8 10
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LOCATED BY: L.B.
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DRAFTED BY: J.V.
CHECKED BY: K.S./B.M./J.A.
APPROVED BY: D.M.

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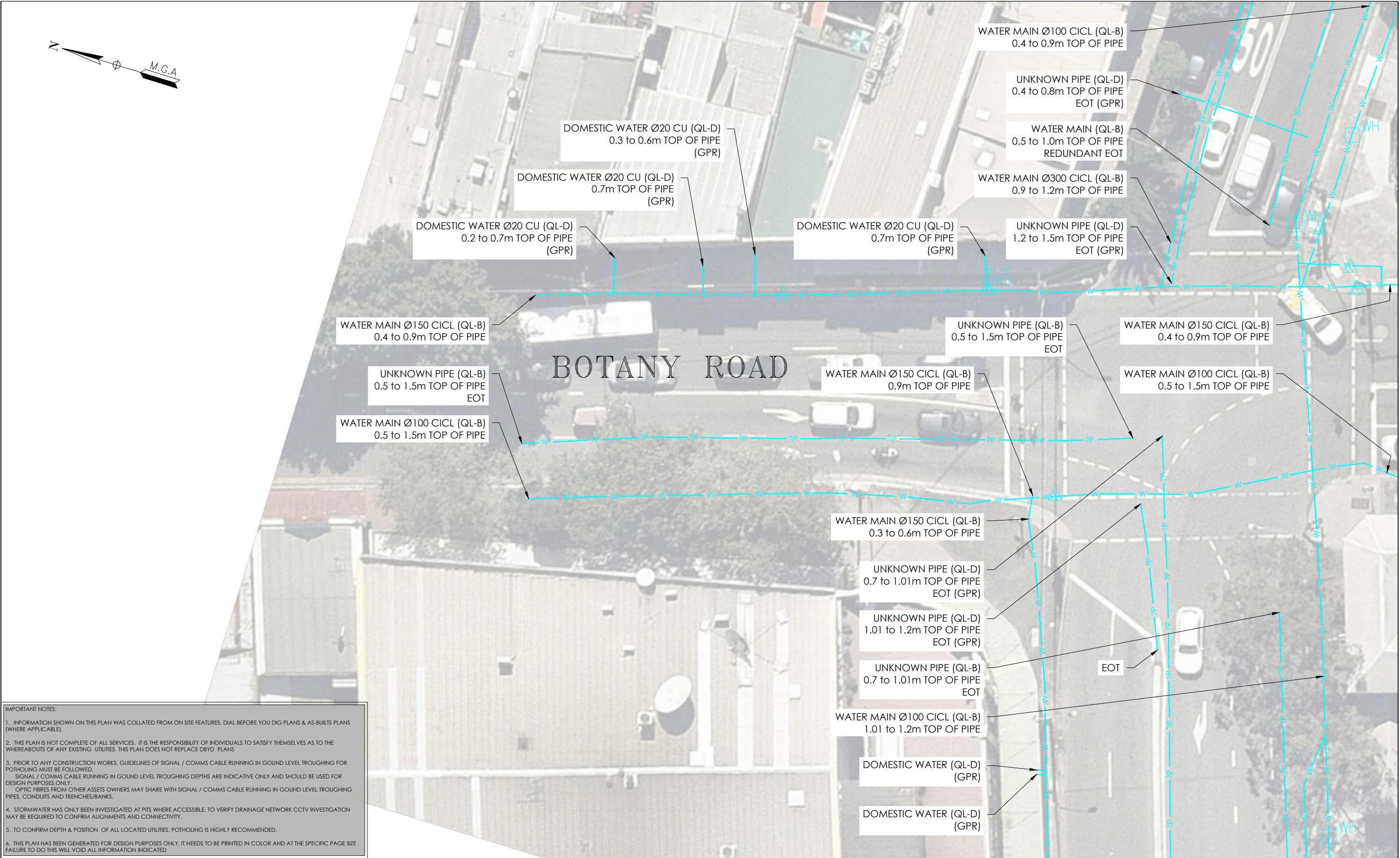
**THIS PLAN DOES NOT REPLACE DBYD PLANS**

JOB NUMBER  
**202254**

THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS & LEGEND	
DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 43 OF 75
DRAWING NUMBER / ISSUE 202254-UTILS-001A	



ISSUE	DATE	AMMENDMENT	BY	<p><b>DISCLAIMER:</b></p> <p>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES. AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</p>	<div><div>veris</div><div><p>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</p><p>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</p></div></div>	<p>CLIENT</p> <p>PROJECT TITLE</p> <p>WATERLOO STATION</p> <p>WATER</p> <p>DRAWING TITLE</p> <p>SUB-SURFACE UTILITY PLAN</p>	<div><div><div><div>02</div><div>04</div><div>06</div><div>08</div><div>10</div></div><div>SCALE IN METERS 1: 250</div></div><div><div>LOCATED BY: L.B.</div><div>SURVEYED BY: Y.M./A.D.</div><div>DRAFTED BY: J.V.</div><div>CHECKED BY: K.S./B.M./J.A.</div><div>APPROVED BY: D.M.</div></div></div>	<div><div><div><div><div></div><div><b>DIAL BEFORE YOU DIG</b></div><div>www.1100.com.au</div></div></div><div><b>THIS PLAN DOES NOT REPLACE DBYD PLANS</b></div><div><div>JOB NUMBER 202254</div><div>DRAWING NUMBER / ISSUE 202254-UTILS-001 A</div></div></div></div> <div><div>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</div><table><tr><td>DATE OF SURVEY: 24/06/2020</td><td>DATE OF PLAN: 03/06/2020</td></tr><tr><td>HEIGHT DATUM: AHD71</td><td>CO-ORD: MGA94</td></tr><tr><td>DBYD JOB # : 19449303/22/34</td><td>DBYD DATE: 30/04/2020</td></tr><tr><td>ORIGINAL SIZE : A3</td><td>SHEET: 44 OF 75</td></tr></table></div>	DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020	HEIGHT DATUM: AHD71	CO-ORD: MGA94	DBYD JOB # : 19449303/22/34	DBYD DATE: 30/04/2020	ORIGINAL SIZE : A3	SHEET: 44 OF 75
DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020															
HEIGHT DATUM: AHD71	CO-ORD: MGA94															
DBYD JOB # : 19449303/22/34	DBYD DATE: 30/04/2020															
ORIGINAL SIZE : A3	SHEET: 44 OF 75															
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.													



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3. PRIOR TO ANY CONSTRUCTION WORKS, GUIDELINES OF SIGNAL / COMMS CABLE RUNNING IN GROUND LEVEL TROUGHING FOR POT-HOLING MUST BE FOLLOWED. SIGNAL / COMMS CABLE RUNNING IN GROUND LEVEL TROUGHING DEPTHS ARE INDICATIVE ONLY AND SHOULD BE USED FOR DESIGN PURPOSES ONLY. OPTIC FIBRES FROM OTHER ASSETS OWNERS MAY SHARE WITH SIGNAL / COMMS CABLE RUNNING IN GROUND LEVEL TROUGHING PIPES, CONDUITS AND TRENCHES/BANKS.

4. STORMWATER HAS ONLY BEEN INVESTIGATED AT PITS WHERE ACCESSIBLE. TO VERIFY DRAINAGE NETWORK CCTV INVESTIGATION MAY BE REQUIRED TO CONFIRM ALIGNMENTS AND CONNECTIVITY.

5. TO CONFIRM DEPTH & POSITION OF ALL LOCATED UTILITIES, POT-HOLING IS HIGHLY RECOMMENDED.

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ISSUE	DATE	AMMENDMENT	BY	DISCLAIMER:
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.	SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER ASS488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.



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ABN 53 615 735 727



PROJECT TITLE	WATERLOO STATION
WATER	
DRAWING TITLE	SUB-SURFACE UTILITY PLAN

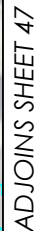
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SCALE IN METERS 1: 250
LOCATED BY: L.B.
SURVEYED BY: Y.M./A.D.
DRAFTED BY: J.V.
CHECKED BY: K.S./B.M./J.A.
APPROVED BY: D.M.



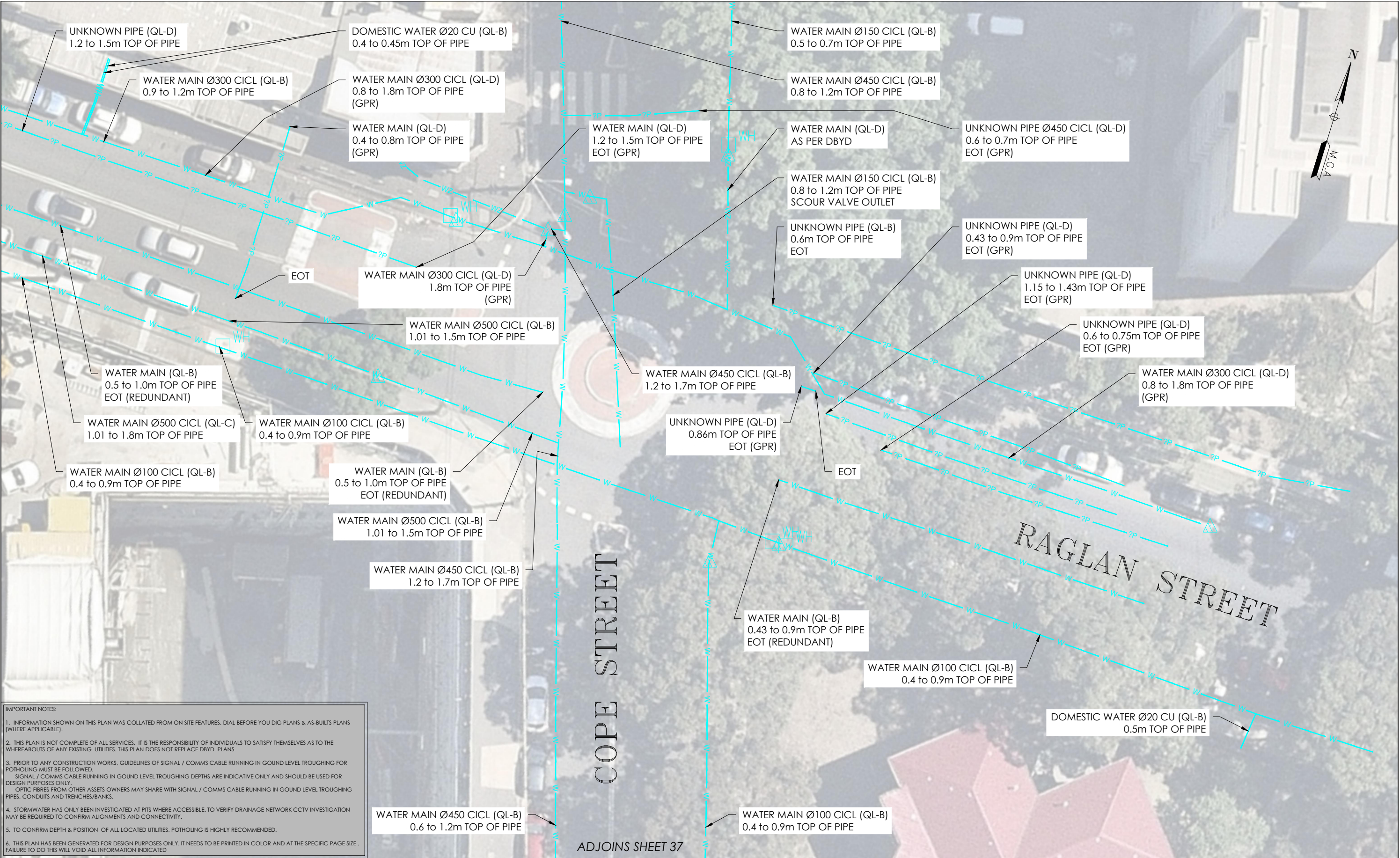
THIS PLAN DOES NOT REPLACE DBYD PLANS

JOB NUMBER  
202254

THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS & LEGEND	
DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB#: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 45 OF 75
DRAWING NUMBER / ISSUE 202254-UTILS-001A	



ISSUE	DATE	AMMENDMENT	BY	<div>DISCLAIMER:</div> <div>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES. AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER ASS488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</div>	<div><div>veris</div><div>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</div><div>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</div></div>	CLIENT	PROJECT TITLE	<div><div><div>0246810</div><div>SCALE IN METERS 1: 250</div></div><div><div>LOCATED BY: L.B.</div><div>SURVEYED BY: Y.M./J.A.D.</div><div>DRAFTED BY: J.V.</div><div>CHECKED BY: K.S./B.M./J.A.</div><div>APPROVED BY: D.M.</div></div></div>	<div><div><div><div><div><div></div><div>DIAL BEFORE YOU DIG</div><div>www.1100.com.au</div></div></div><div>THIS PLAN DOES NOT REPLACE DBYD PLANS</div></div><div>JOB NUMBER 202254</div></div></div>	<div><div>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</div><div><div>DATE OF SURVEY: 24/06/2020</div><div>DATE OF PLAN: 03/06/2020</div></div><div><div>HEIGHT DATUM: AHD71</div><div>CO-ORD: MGA94</div></div><div><div>DBYD JOB # : 19449303/22/34</div><div>DBYD DATE: 30/04/2020</div></div><div><div>ORIGINAL SIZE : A3</div><div>SHEET: 46 OF 75</div></div><div><div>DRAWING NUMBER / ISSUE</div><div>202254-UTILS-001A</div></div></div>
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.				WATERLOO STATION			
							WATER			
							DRAWING TITLE			
							SUB-SURFACE UTILITY PLAN			



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ISSUE	DATE	AMMENDMENT	BY
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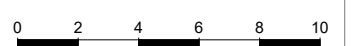
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ABN 53 615 735 727

CLIENT



PROJECT TITLE
WATERLOO STATION
WATER
DRAWING TITLE
SUB-SURFACE UTILITY PLAN



SCALE IN METERS 1: 250


LOCATED BY: L.B.

SURVEYED BY: Y.M./A.D.

DRAFTED BY: J.V.

CHECKED BY: K.S./B.M./J.A.

APPROVED BY: D.M.



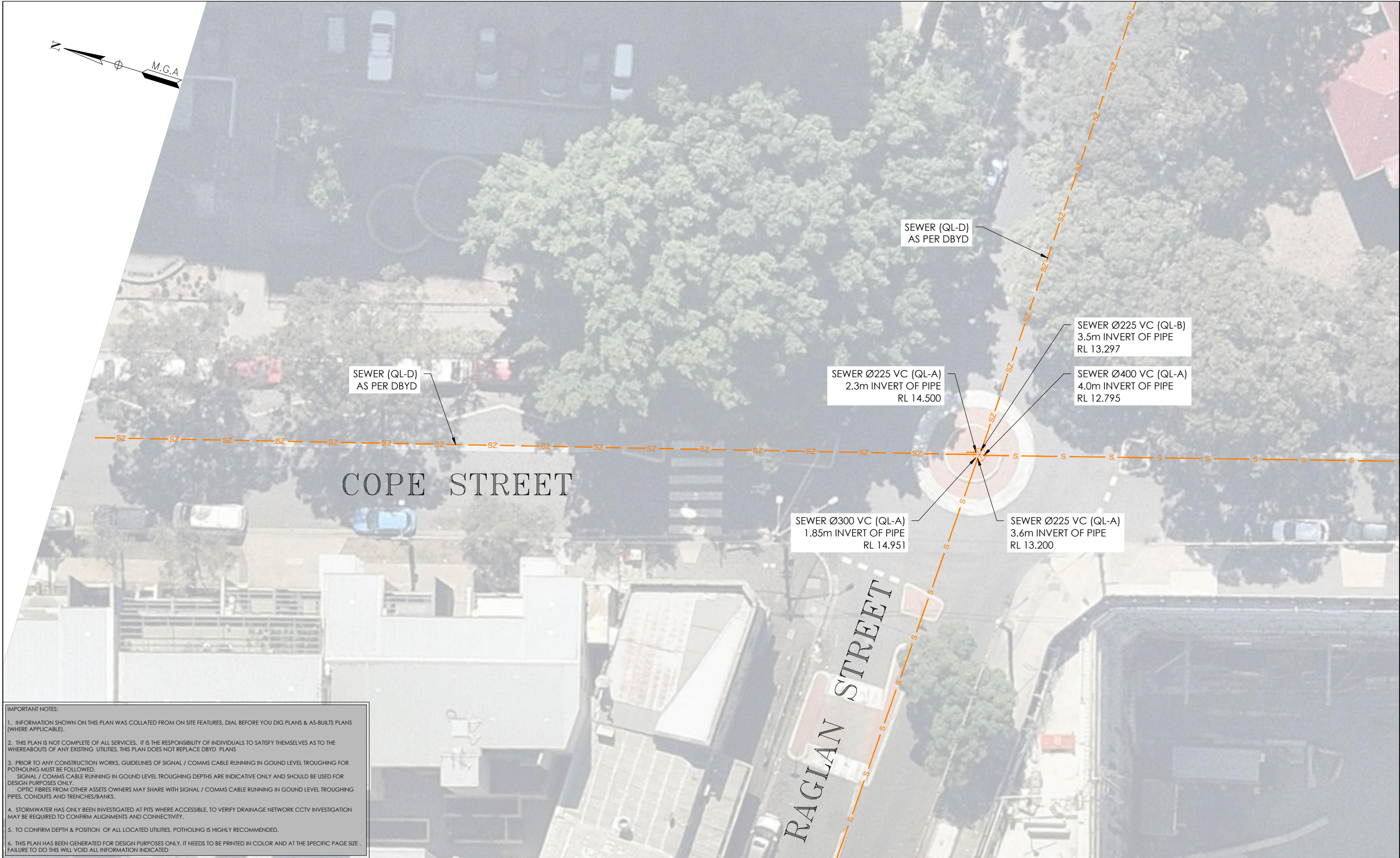
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JOB NUMBER  
202254

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DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 47 OF 75

DRAWING NUMBER / ISSUE  
202254-UTILS-001A



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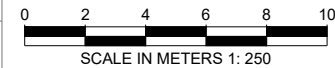
**JOHN  
HOLLAND**

PROJECT TITLE

WATERLOO STATION  
SEWAGE

DRAWING TITLE

SUB-SURFACE UTILITY PLAN



LOCATED BY:	L.B.
SURVEYED BY:	Y.M./A.D.
DRAFTED BY:	J.V.
CHECKED BY:	K.S./B.M./J.A.
APPROVED BY:	D.M.



**THIS PLAN DOES  
NOT REPLACE  
DBYD PLANS**

JOB NUMBER  
**202254**

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DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 48 OF 75

DRAWING NUMBER / ISSUE  
202254-UTILS-001A

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ADJOINS SHEET 50



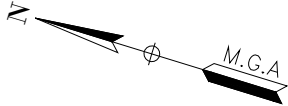
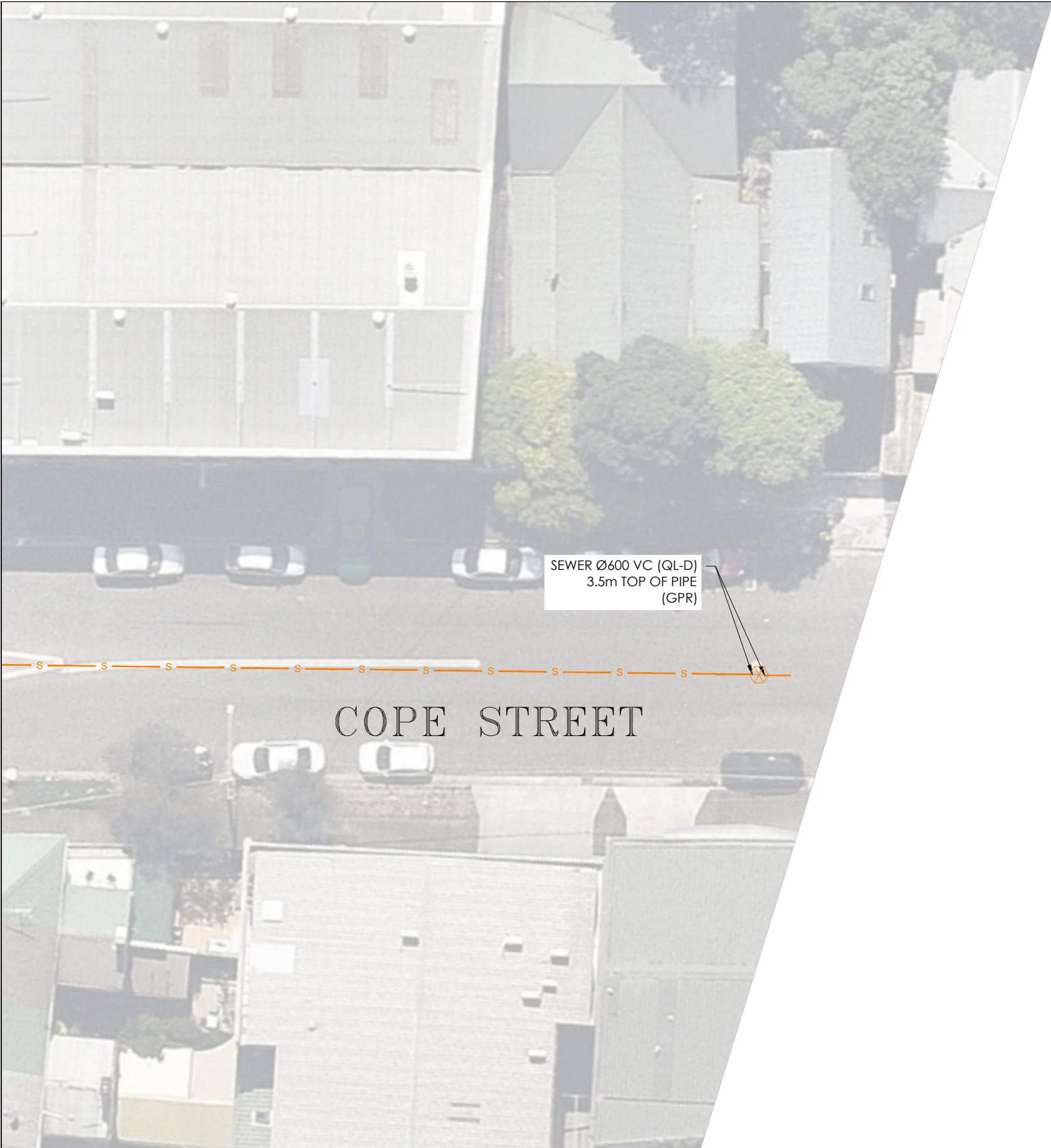
ISSUE	DATE	AMMENDMENT	BY	<p><b>DISCLAIMER:</b></p> <p>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</p>	 <p>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</p> <p>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</p>	<p>CLIENT</p> <p><b>JOHN HOLLAND</b></p>	<p>PROJECT TITLE</p> <p>WATERLOO STATION</p> <p>SEWAGE</p> <p>DRAWING TITLE</p> <p>SUB-SURFACE UTILITY PLAN</p>	 <p>SCALE IN METERS 1: 250</p> <p>LOCATED BY: L.B.</p> <p>SURVEYED BY: Y.M./A.D.</p> <p>DRAFTED BY: J.V.</p> <p>CHECKED BY: K.S./B.M./J.A.</p> <p>APPROVED BY: D.M.</p>	 <p>THIS PLAN DOES NOT REPLACE DBYD PLANS</p> <p>JOB NUMBER 202254</p>	<p>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</p> <p>DATE OF SURVEY: 24/06/2020    DATE OF PLAN: 03/06/2020</p> <p>HEIGHT DATUM: AHD71    CO-ORD: MGA94</p> <p>DBYD JOB #: 19449303/22/34    DBYD DATE: 30/04/2020</p> <p>ORIGINAL SIZE: A3    SHEET: 49 OF 75</p> <p>DRAWING NUMBER / ISSUE 202254-UTILS-001A</p>
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							



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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							
				JOB NUMBER	DRAWING NUMBER / ISSUE					
				202254	202254-UTILS-001 A					



ISSUE	DATE	AMMENDMENT	BY	<div>DISCLAIMER:</div> <div>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</div>	<div>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</div> <div>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</div>	<div>CLIENT</div> <div>JOHN HOLLAND</div>	PROJECT TITLE	<div><div><div>0246810</div></div><div>SCALE IN METERS 1: 250</div></div>	<div><div><div>DIAL BEFORE YOU DIG</div><div>www.100.com.au</div></div></div> <div>THIS PLAN DOES NOT REPLACE DBYD PLANS</div>	<div>DATE OF SURVEY: 24/06/2020</div> <div>HEIGHT DATUM: AHD71</div> <div>DBYD JOB #: 19449303/22/34</div> <div>ORIGINAL SIZE: A3</div>	<div>DATE OF PLAN: 03/06/2020</div> <div>CO-ORD: MGA94</div> <div>DBYD DATE: 30/04/2020</div> <div>SHEET: 51 OF 7</div>
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.				LOCATED BY: L.B.	JOB NUMBER	DRAWING NUMBER / ISSUE		
							SURVEYED BY: Y.M./A.D.	202254	202254-UTILS-001 A		
							DRAFTED BY: J.V.				
							CHECKED BY: K.S./B.M./J.A.				
							APPROVED BY: D.M.				
							DRAWING TITLE				
				SUB-SURFACE UTILITY PLAN							



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4. STORMWATER HAS ONLY BEEN INVESTIGATED AT PITS WHERE ACCESSIBLE. TO VERIFY DRAINAGE NETWORK CCTV INVESTIGATION MAY BE REQUIRED TO CONFIRM ALIGNMENTS AND CONNECTIVITY.

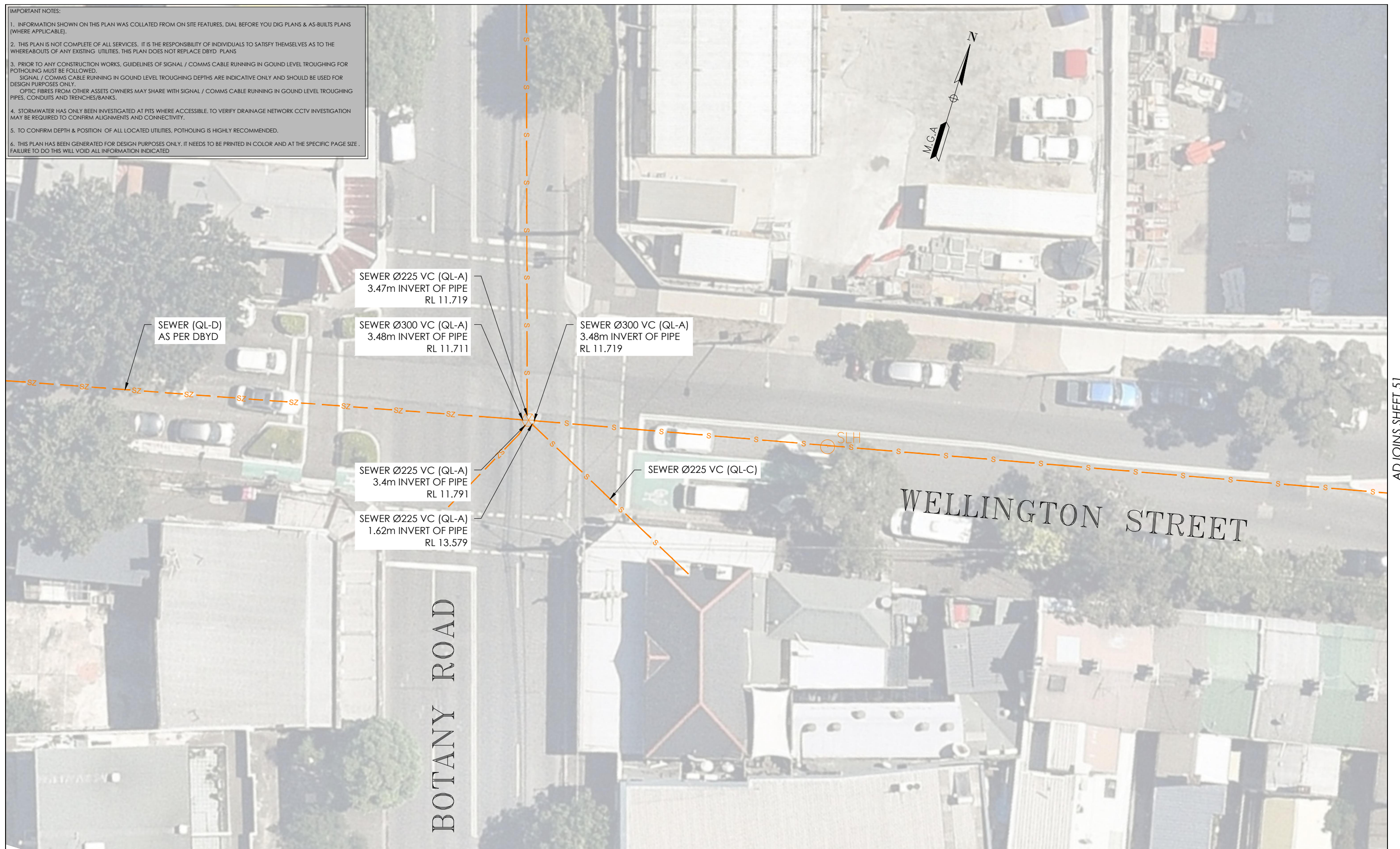
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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.										
				DRAWING TITLE		DRAWING NUMBER / ISSUE							
				WATERLOO STATION		202254							
				SEWAGE		202254-UTILS-001A							
				SUB-SURFACE UTILITY PLAN									

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ADJOINS SHEET 51

<b>ISSUE</b>	<b>DATE</b>	<b>AMMENDMENT</b>	<b>BY</b>	<b>DISCLAIMER:</b>  SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES. AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.	

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# JOHN HOLLAND

CLIENT \_\_\_\_\_

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PROJECT TITLE \_\_\_\_\_  
\_\_\_\_\_

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DRAWING TITLE \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SCALE IN METERS 1: 250

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LOCATED BY: L.B.  
SURVEYED BY: Y.M./A.D.  
DRAFTED BY: J.V.  
CHECKED BY: K.S./B.M./J.A.  
APPROVED BY: D.M.

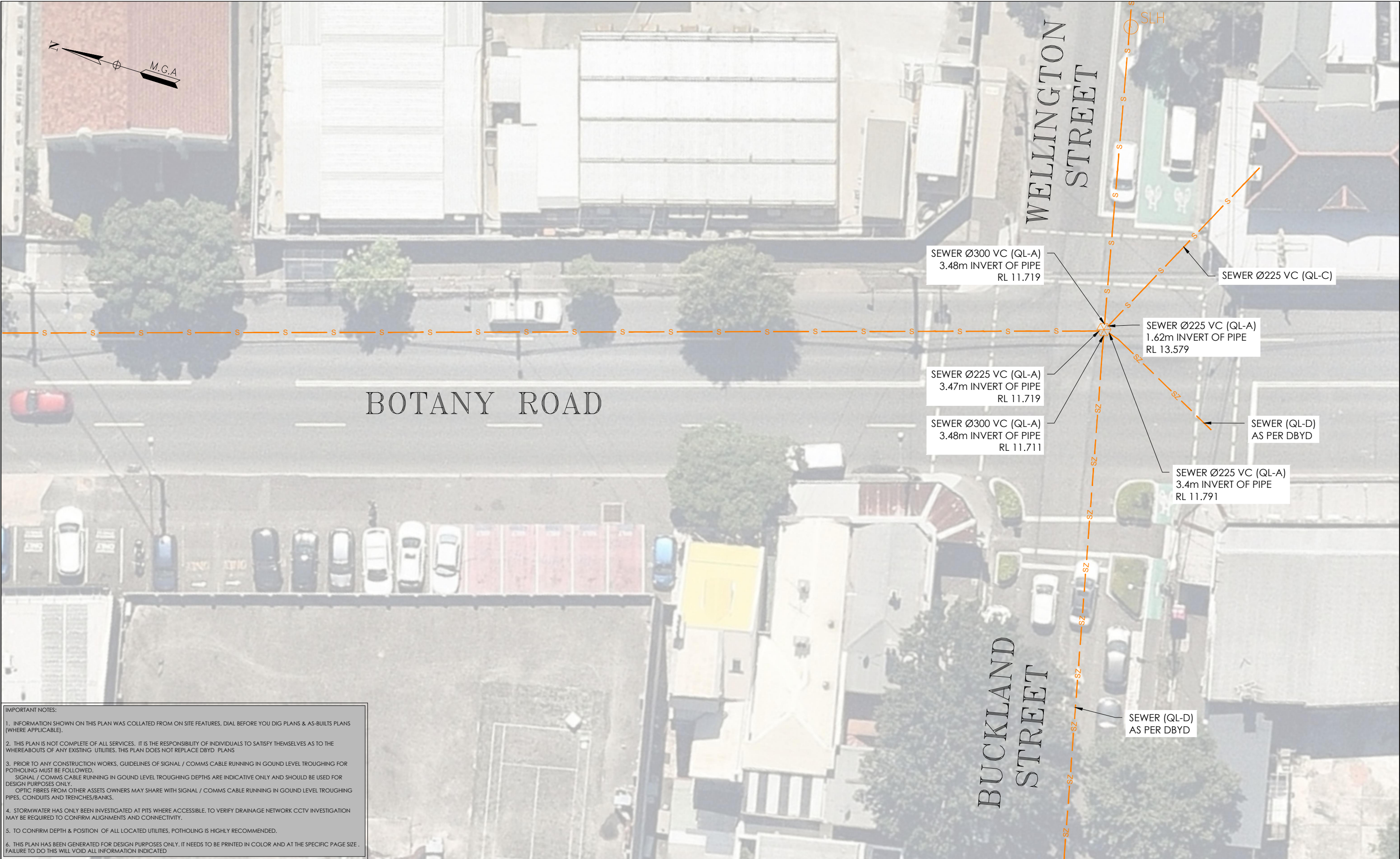
THIS PLAN DOES NOT REPLACE DBYD PLANS

JOB NUMBER  
**202254**

DRAWING NUMBER / ISSUE  
**202254-UTILS-001 A**

**THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET I FOR ADDITIONAL NOTES, WARNINGS & LEGEND**

DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AH/D71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE : A3	SHEET: 53 OF 75



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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
										HEIGHT DATUM: AHD71	CO-ORD: MGA94
										DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
										ORIGINAL SIZE: A3	SHEET: 54 OF 75
										DRAWING NUMBER / ISSUE 202254-UTILS-001A	



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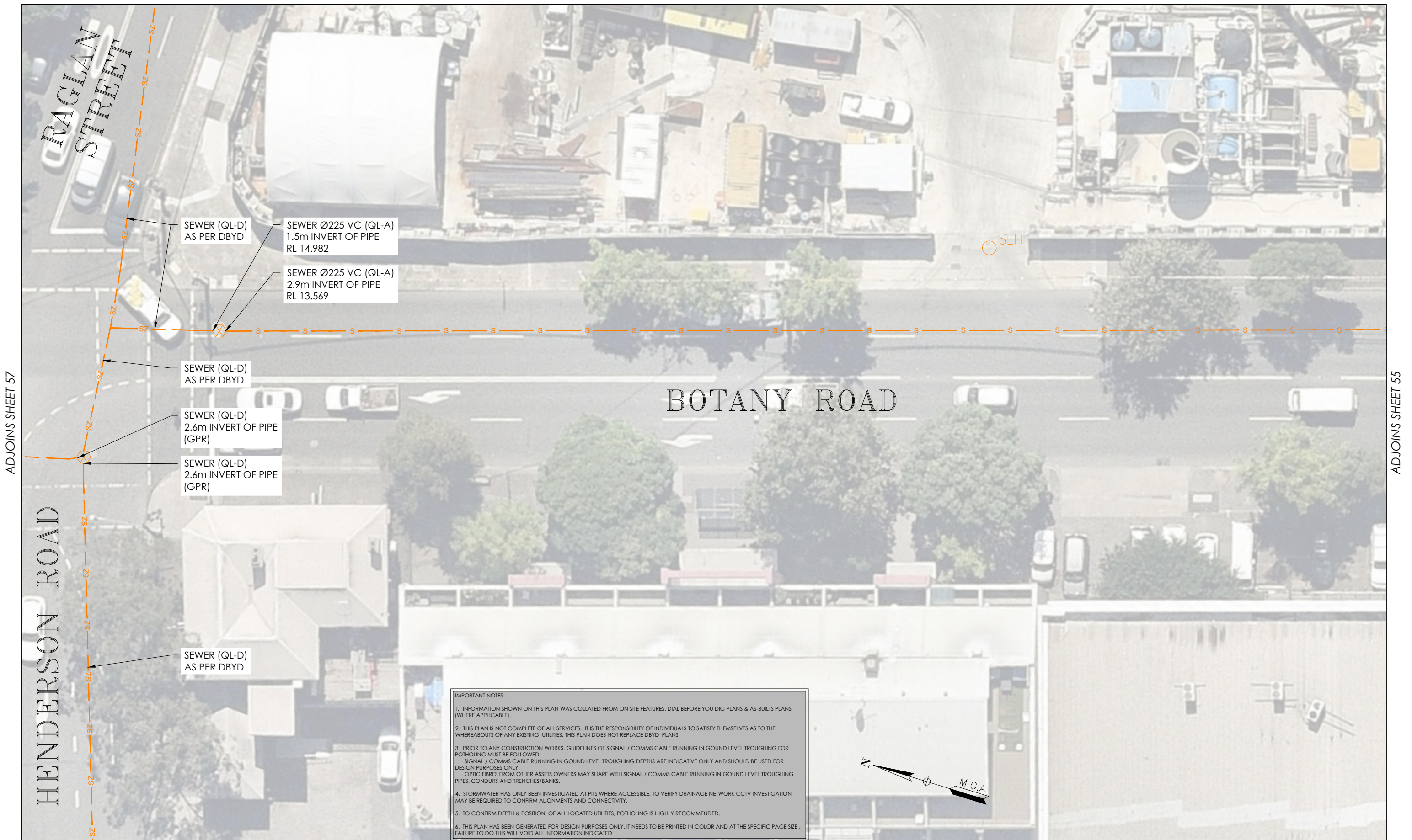
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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							
				Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128  T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727	JOHN HOLLAND	WATERLOO STATION SEWAGE	SUB-SURFACE UTILITY PLAN			



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DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020																	
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ORIGINAL SIZE: A3	SHEET: 56 OF 75																	
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.															



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CLIENT

**JOHN HOLLAND**

PROJECT TITLE	WATERLOO STATION
SEWAGE	
DRAWING TITLE	SUB-SURFACE UTILITY PLAN

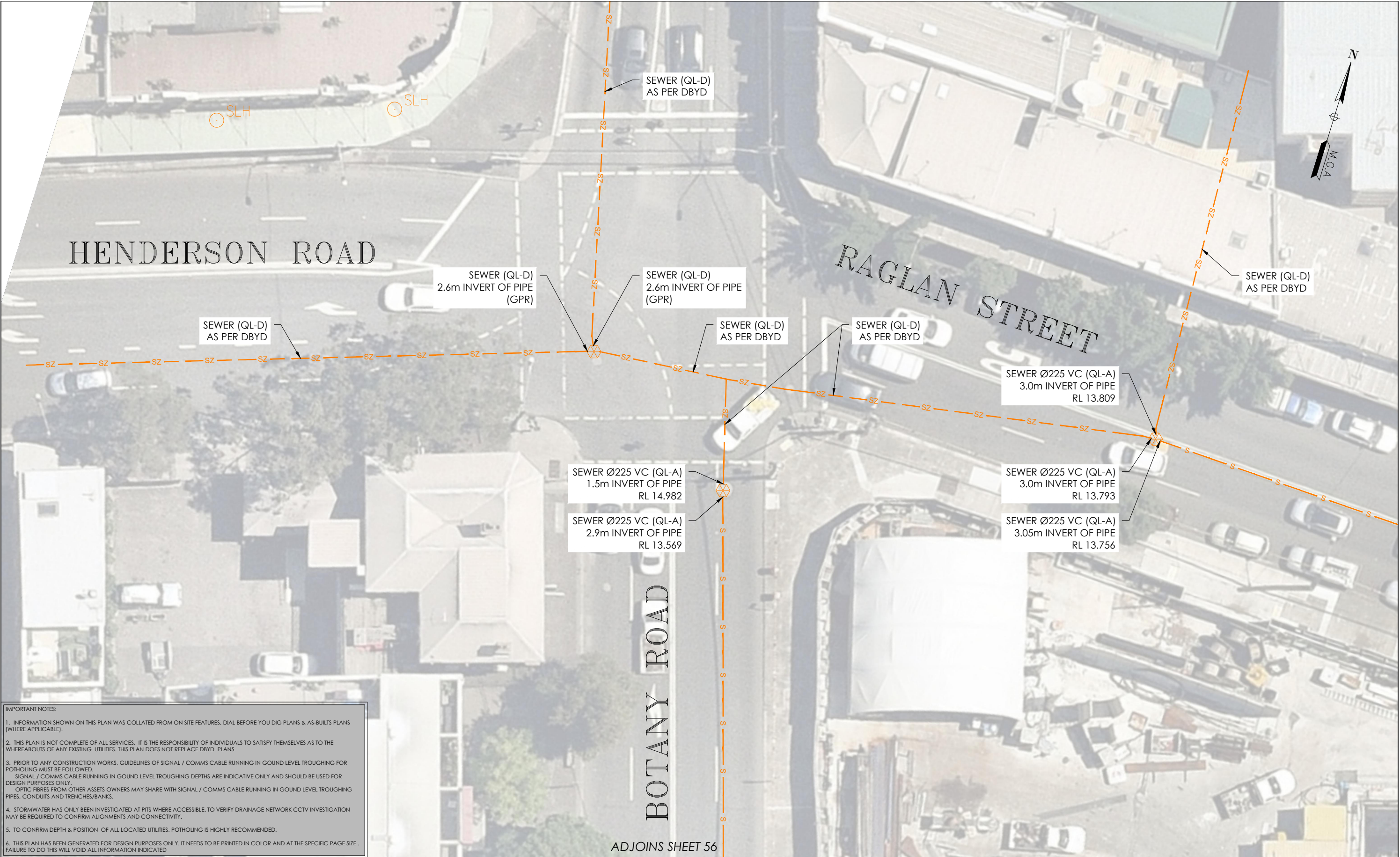
02	2	4	6	8	10
SCALE IN METERS 1: 250					
LOCATED BY:	L.B.				
SURVEYED BY:	Y.M./A.D.				
DRAFTED BY:	J.V.				
CHECKED BY:	K.S./B.M./J.A.				
APPROVED BY:	D.M.				



**THIS PLAN DOES NOT REPLACE DBYD PLANS**

JOB NUMBER  
202254

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DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 57 OF 75
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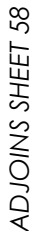
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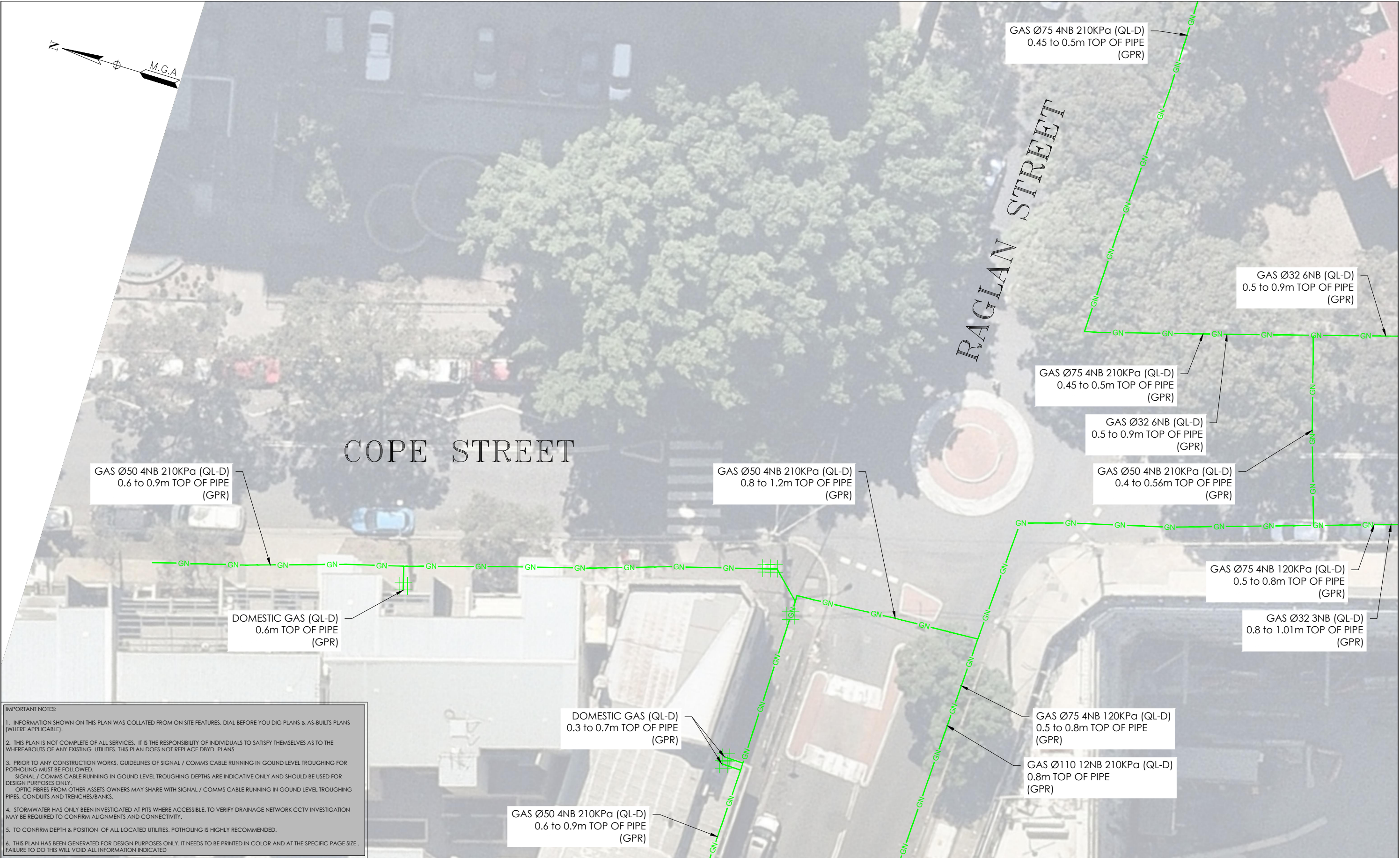
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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							



ADJOINS SHEET 58

ADJOINS SHEET 58



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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.	SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.				WATERLOO STATION			
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								DRAWING TITLE			
								SUB-SURFACE UTILITY PLAN			

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ADJOINS SHEET 62



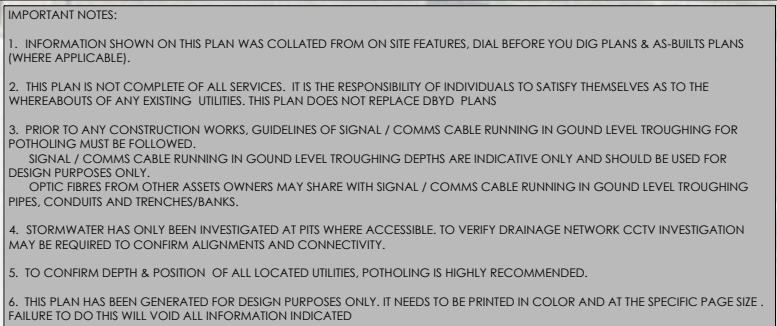
<b>ISSUE</b>	<b>DATE</b>	<b>AMMENDMENT</b>	<b>BY</b>	<p><b>DISCLAIMER:</b></p> <p>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS548B. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</p>	 <p>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</p> <p>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</p>	<p>CLIENT</p> <div style="text-align: center;">  </div>	<p><b>PROJECT TITLE</b></p> <p>WATERLOO STATION</p> <p>GAS</p> <p><b>DRAWING TITLE</b></p> <p>SUB-SURFACE UTILITY PLAN</p>	 <p>SCALE IN METERS 1: 250</p> <p>LOCATED BY: L.B.</p> <p>SURVEYED BY: Y.M./A.D.</p> <p>DRAFTED BY: J.V.</p> <p>CHECKED BY: K.S./B.M./J.A.</p> <p>APPROVED BY: D.M.</p>	 <p><b>THIS PLAN DOES NOT REPLACE DBYD PLANS</b></p> <p>JOB NUMBER <b>202254</b></p>	<p>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</p> <p>DATE OF SURVEY: 24/06/2020      DATE OF PLAN: 03/06/2020</p> <p>HEIGHT DATUM: AHD71                  CO-ORD: MGA94</p> <p>DBYD JOB #: 19449303/22/34      DBYD DATE: 30/04/2020</p> <p>ORIGINAL SIZE: A3                      SHEET: 61 OF 75</p> <p>DRAWING NUMBER / ISSUE 202254-UTILS-001A</p>
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							

ADJOINS SHEET 61

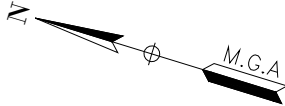
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							SURVEYED BY: Y.M./A.D.		DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
							DRAFTED BY: J.V.		ORIGINAL SIZE: A3	SHEET: 62 OF 75
							CHECKED BY: K.S./B.M./J.A.		JOB NUMBER	DRAWING NUMBER / ISSUE
							APPROVED BY: D.M.		202254	202254-UTILS-001 A
							DRAWING TITLE			
							SUB-SURFACE UTILITY PLAN			



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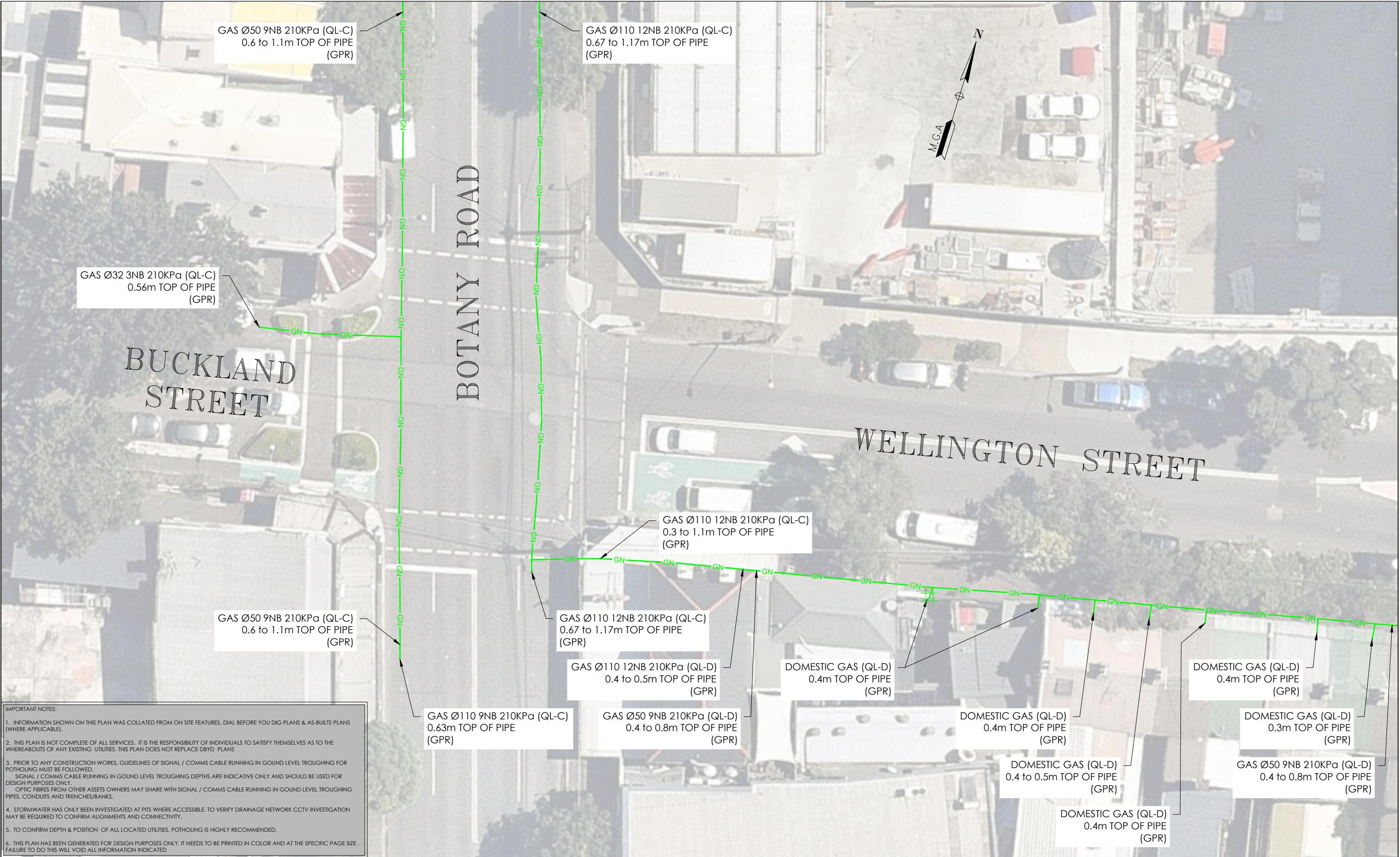
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							GAS				HEIGHT DATUM: AHD71		CO-ORD: MGA94	
							DRAWING TITLE				DBYD JOB #: 19449303/22/34		DBYD DATE: 30/04/2020	
							SUB-SURFACE UTILITY PLAN				ORIGINAL SIZE : A3		SHEET: 64 OF 75	
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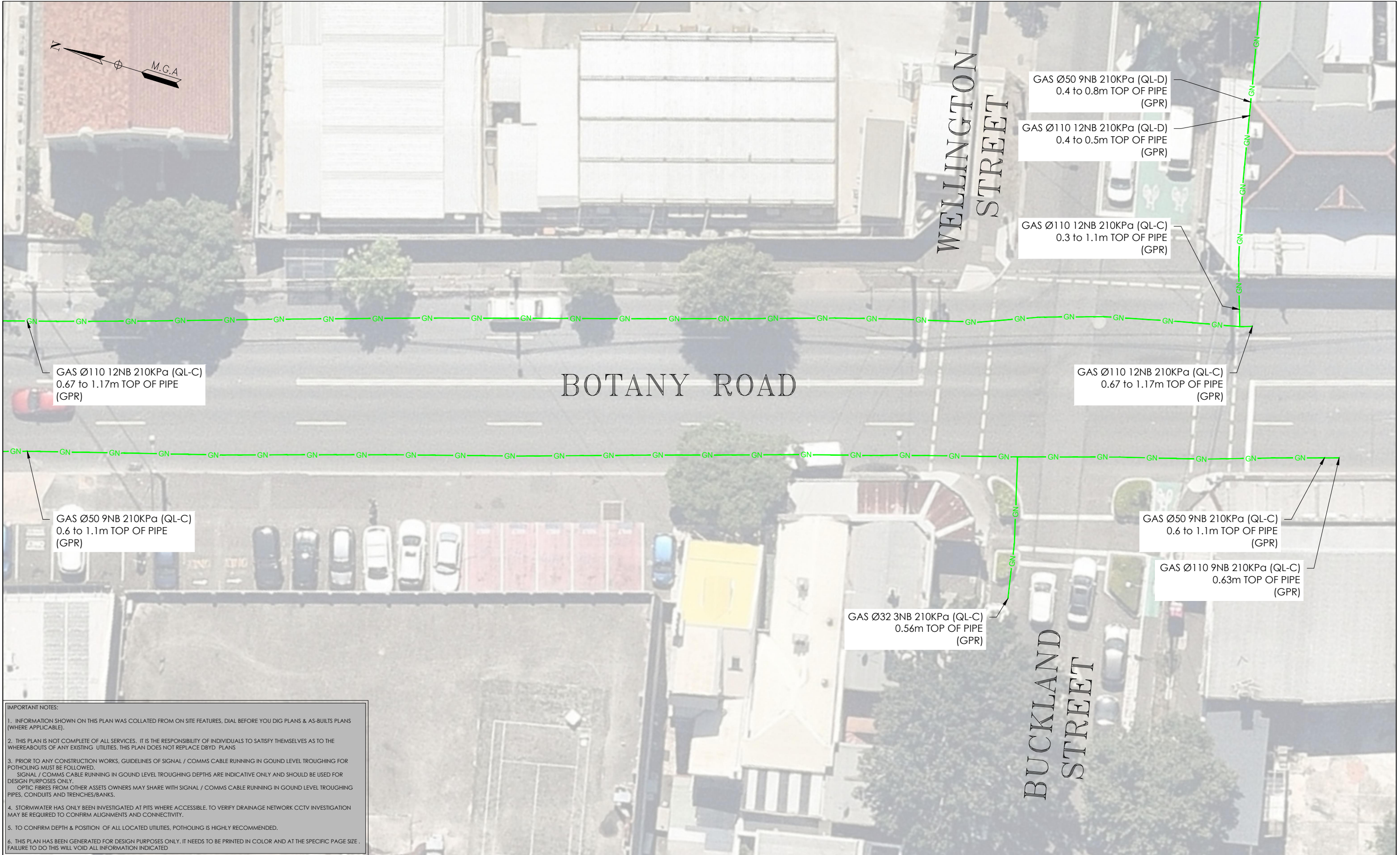
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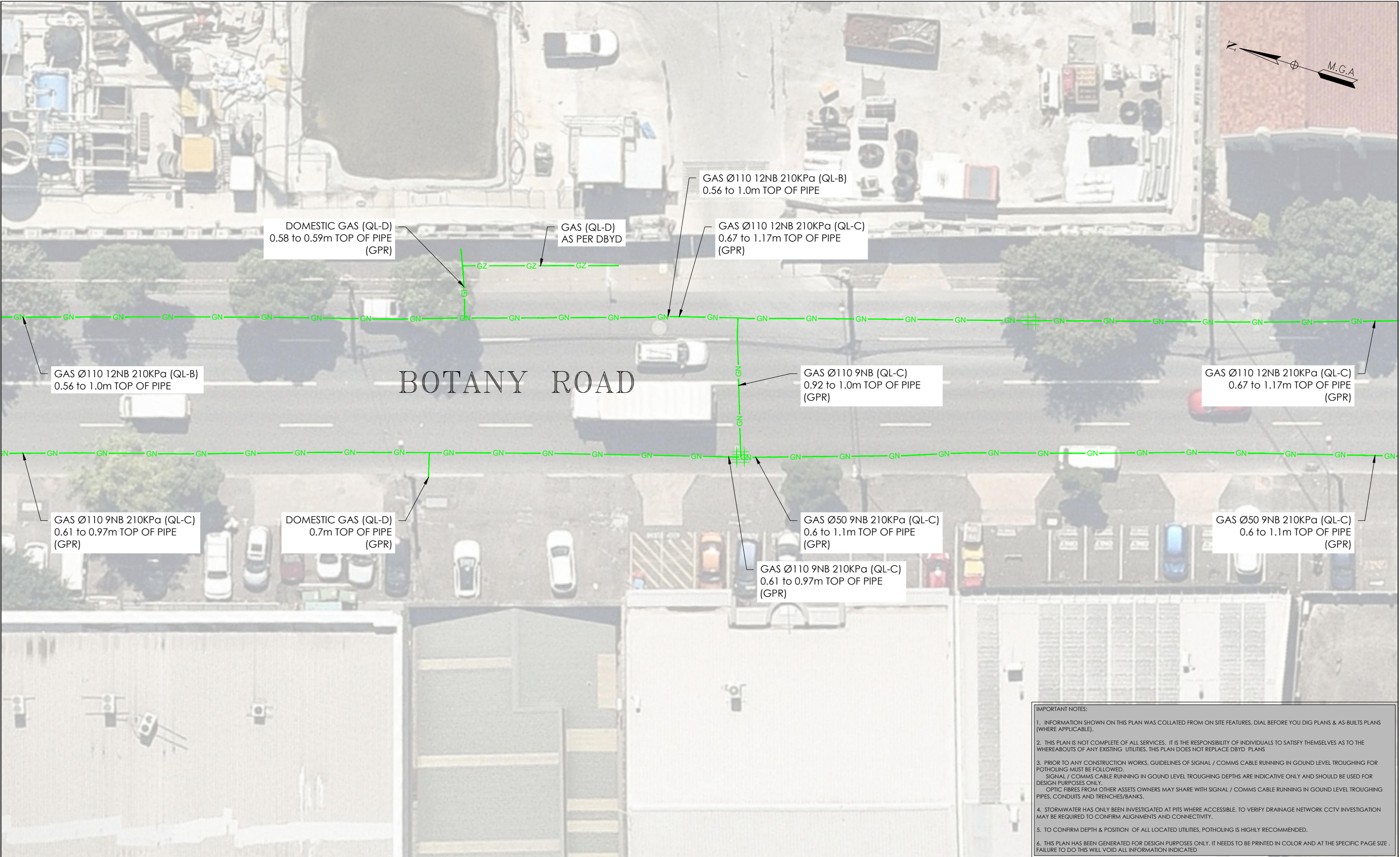
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ISSUE	DATE	AMMENDMENT	BY
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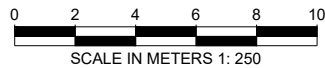
**JOHN  
HOLLAND**

PROJECT TITLE

**WATERLOO STATION**  
**GAS**

DRAWING TITLE

**SUB-SURFACE UTILITY PLAN**



LOCATED BY:	L.B.
SURVEYED BY:	Y.M./A.D.
DRAFTED BY:	J.V.
CHECKED BY:	K.S./B.M./J.A.
APPROVED BY:	D.M.



**THIS PLAN DOES  
NOT REPLACE  
DBYD PLANS**

JOB NUMBER  
**202254**

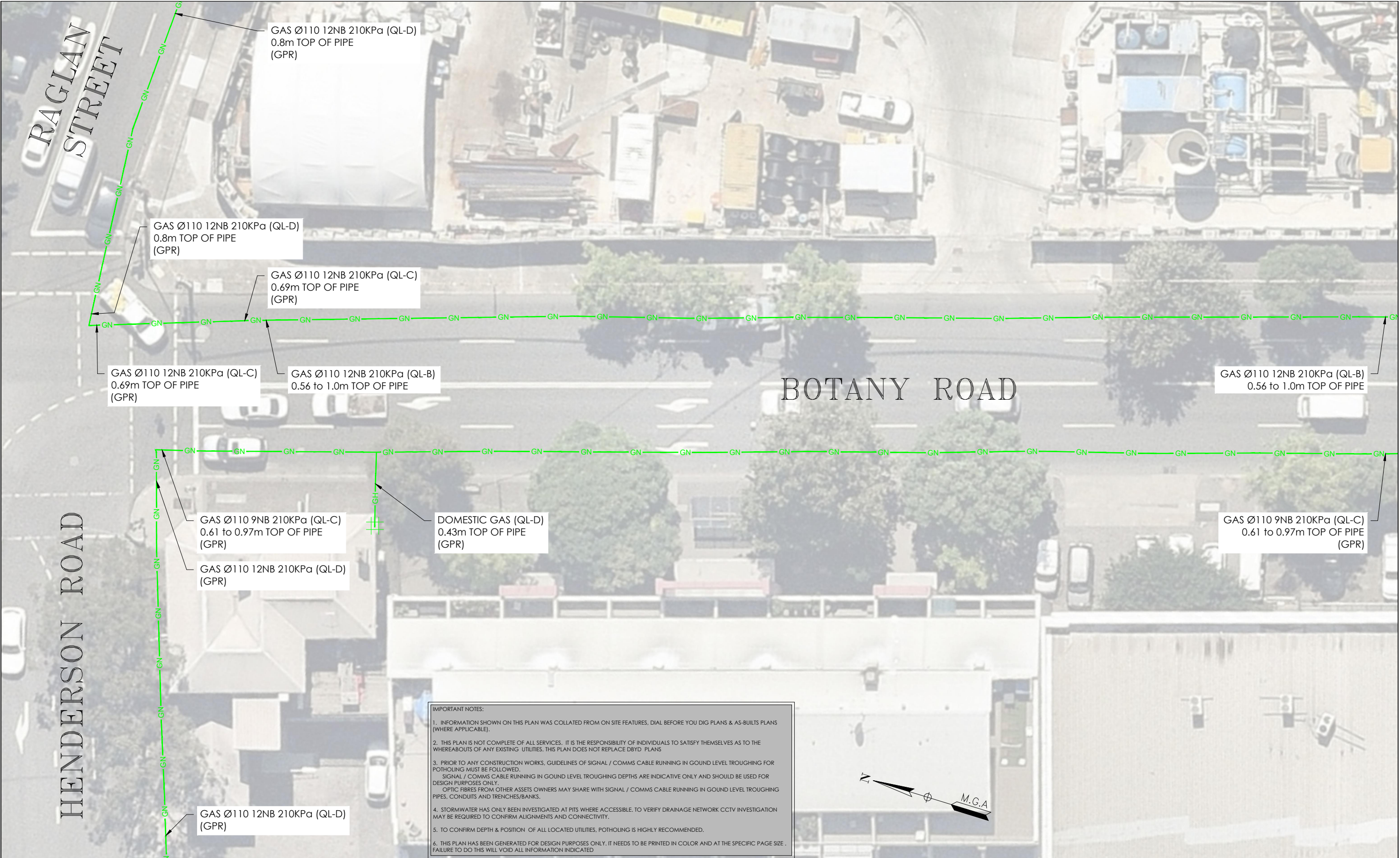
THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS & LEGEND

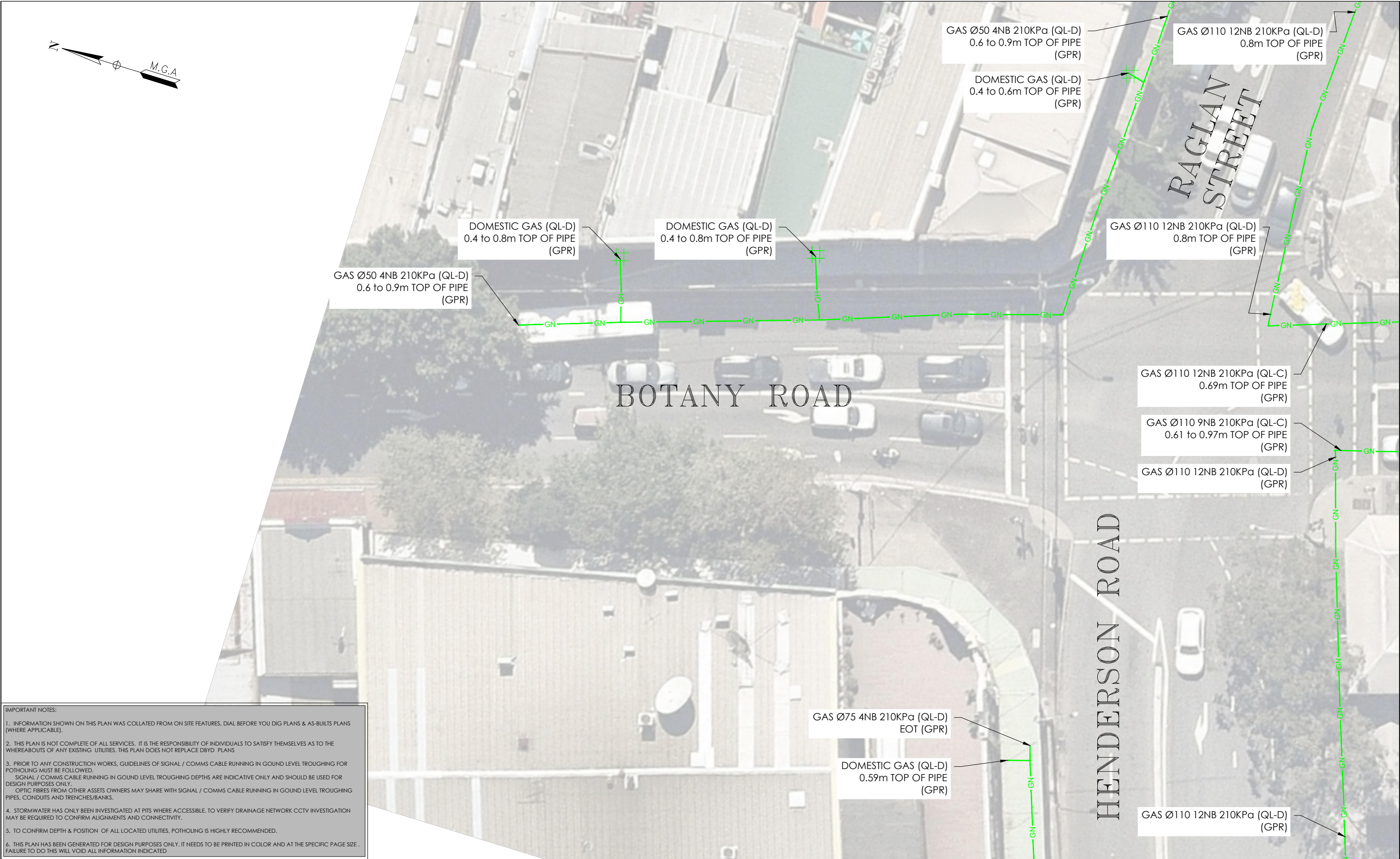
DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 67 OF 75

DRAWING NUMBER / ISSUE  
202254-UTILS-001A

ADJOINS SHEET 69

ADJOINS SHEET 67





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PROJECT TITLE	WATERLOO STATION
GAS	
DRAWING TITLE	SUB-SURFACE UTILITY PLAN

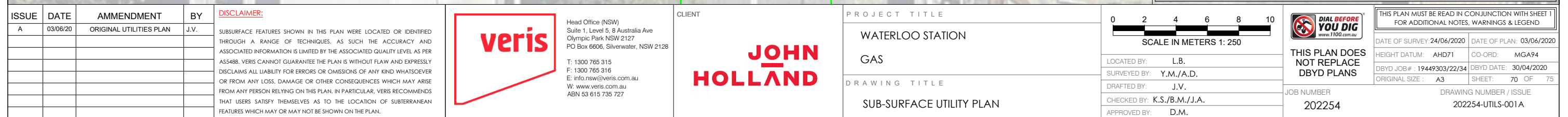
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SCALE IN METERS 1: 250
LOCATED BY: L.B.
SURVEYED BY: Y.M./A.D.
DRAFTED BY: J.V.
CHECKED BY: K.S./B.M./J.A.
APPROVED BY: D.M.

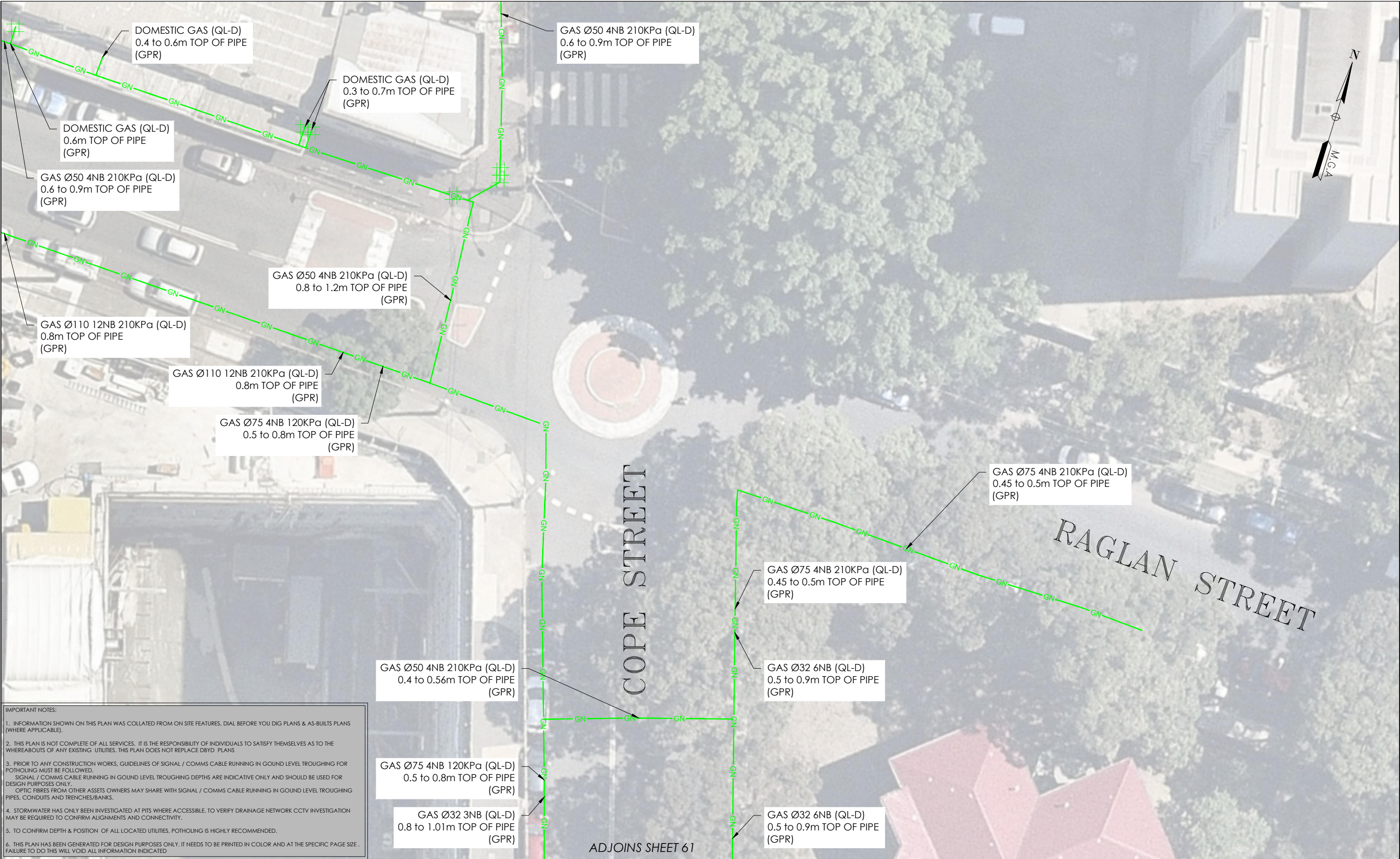
  
**THIS PLAN DOES NOT REPLACE DBYD PLANS**

JOB NUMBER  
**202254**

THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS & LEGEND	
DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 69 OF 75
DRAWING NUMBER / ISSUE 202254-UTILS-001A	

ADJOINS SHEET 68





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CLIENT

**JOHN HOLLAND**

PROJECT TITLE

WATERLOO STATION

GAS

DRAWING TITLE

SUB-SURFACE UTILITY PLAN



LOCATED BY:	L.B.
SURVEYED BY:	Y.M./A.D.
DRAFTED BY:	J.V.
CHECKED BY:	K.S./B.M./J.A.
APPROVED BY:	D.M.



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JOB NUMBER  
**202254**

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DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 71 OF 75

DRAWING NUMBER / ISSUE  
202254-UTILS-001A



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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.			WATERLOO STATION				DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
						TRAM TRACKS				HEIGHT DATUM: AHD71	CO-ORD: MGA94
						DRAWING TITLE				DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
						SUB-SURFACE UTILITY PLAN				ORIGINAL SIZE: A3	SHEET: 72 OF 75
										JOB NUMBER	DRAWING NUMBER / ISSUE
										202254	202254-UTILS-001A

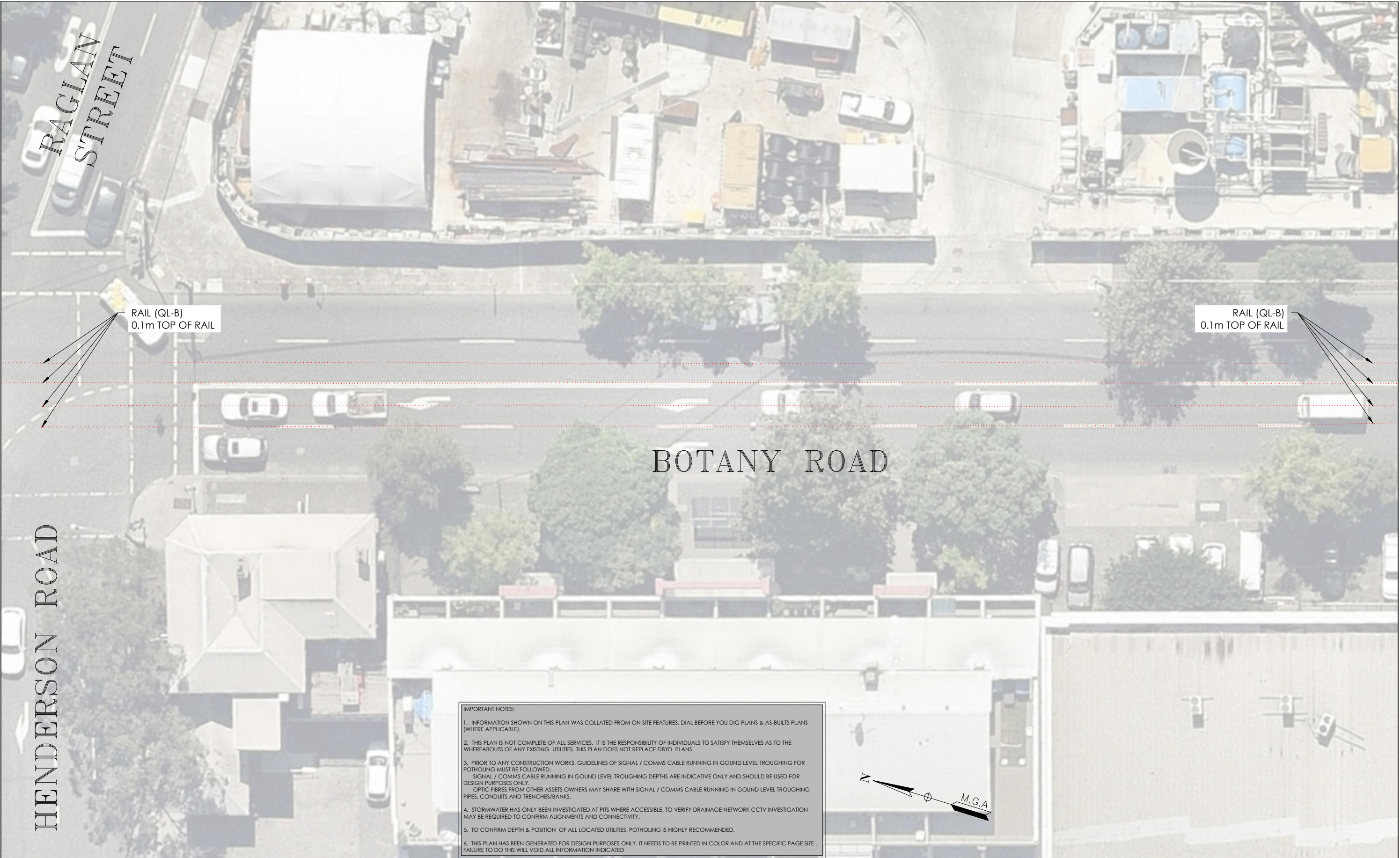
ADJOINS SHEET 74

ADJOINS SHEET 72




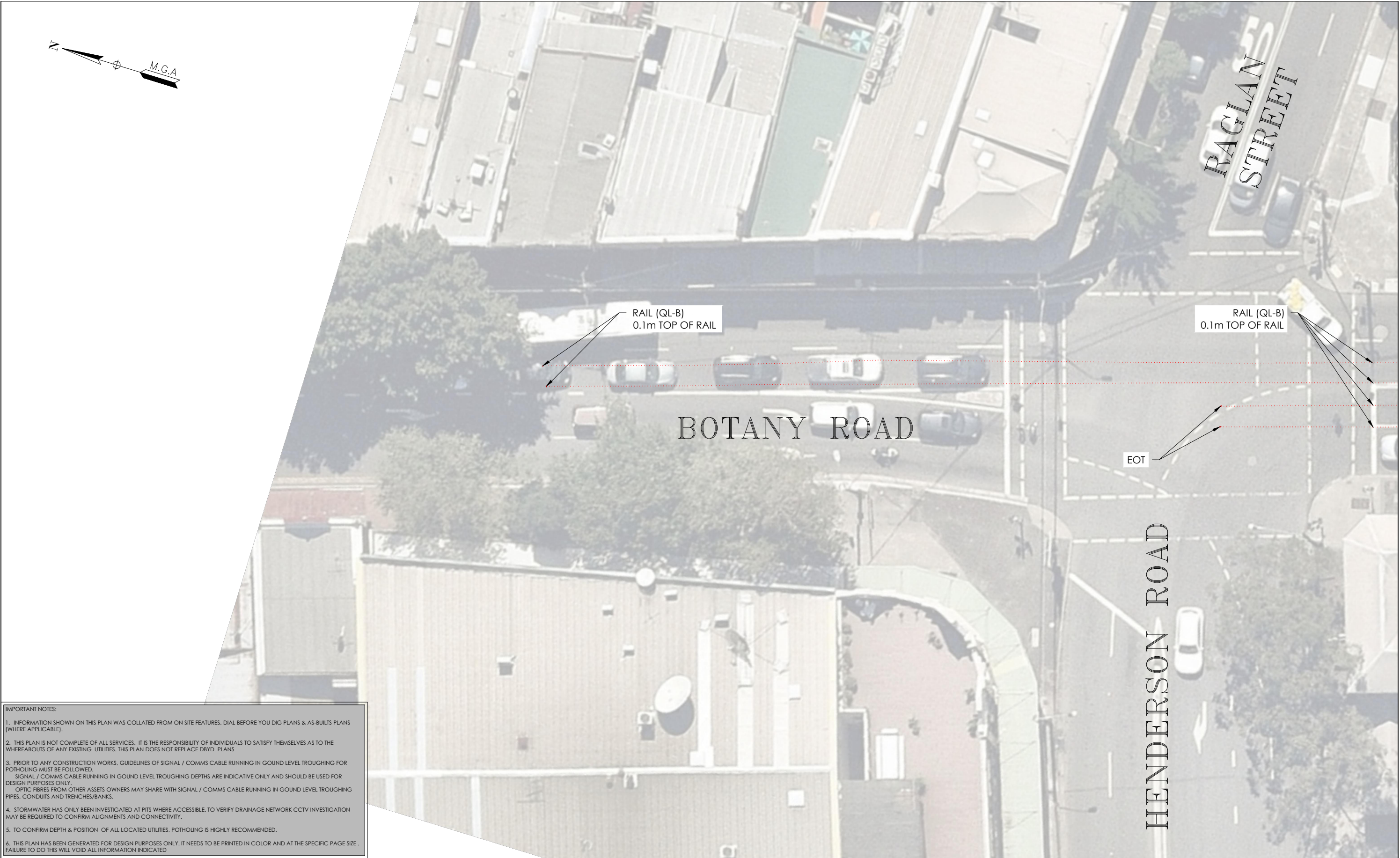
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ADJOINS SHEET 75



ADJOINS SHEET 73

ISSUE	DATE	AMMENDMENT	BY	<p><b>DISCLAIMER:</b></p> <p>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER ASS488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</p>	<div><p>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</p><p>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</p></div>	<p>CLIENT</p> <div></div>	<p>PROJECT TITLE</p> <p>WATERLOO STATION</p> <p>TRAM TRACKS</p> <p>DRAWING TITLE</p> <p>SUB-SURFACE UTILITY PLAN</p>		<div><p>SCALE IN METERS 1: 250</p><p>LOCATED BY: L.B.</p><p>SURVEYED BY: Y.M./A.D.</p><p>DRAFTED BY: J.V.</p><p>CHECKED BY: K.S./B.M./J.A.</p><p>APPROVED BY: D.M.</p></div>	<div><p>THIS PLAN DOES NOT REPLACE DBYD PLANS</p><p>JOB NUMBER 202254</p></div>	THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS & LEGEND			
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WATERLOO STATION		TRAM TRACKS		DRAWING TITLE		DRAWING NUMBER / ISSUE								
SUB-SURFACE UTILITY PLAN						202254-UTILS-001A								



ADJOINS SHEET 74

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CLIENT

**JOHN  
HOLLAND**

PROJECT TITLE

WATERLOO STATION  
TRAM TRACKS

DRAWING TITLE

SUB-SURFACE UTILITY PLAN



LOCATED BY:	L.B.
SURVEYED BY:	Y.M./A.D.
DRAFTED BY:	J.V.
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JOB NUMBER  
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FOR ADDITIONAL NOTES, WARNINGS & LEGEND

DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 75 OF 75

DRAWING NUMBER / ISSUE  
202254-UTILS-001A

AUSTRALIAN STANDARD AS5488-2019 CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION (SUI)

THIS STANDARD (AS5488-2013) PROVIDES A FRAMEWORK FOR THE CLASSIFICATION OF SUBSURFACE UTILITY LOCATION AND ATTRIBUTE INFORMATION IN TERMS OF SPECIFIED QUALITY LEVELS. THE OBJECTIVE OF THIS STANDARD IS TO PROVIDE UTILITY OWNERS, OPERATORS AND LOCATORS WITH A FRAMEWORK FOR THE CONSISTENT CLASSIFICATION OF INFORMATION CONCERNING SUBSURFACE UTILITIES. THIS AIMS TO ASSIST WITH THE MANAGEMENT OF PROJECT RISK RELATED TO UNDERGROUND UTILITIES.

A QUALITY LEVEL DESCRIBES THE ACCURACY OF INFORMATION THAT IS COLLECTED OR HELD ON A SUBSURFACE UTILITY. THERE ARE FOUR QUALITY LEVELS - A,B,C AND D. QUALITY LEVEL A IS CONSIDERED TO BE THE HIGHEST QUALITY LEVEL AND QUALITY LEVEL D TO BE THE LOWEST. THE HIGHER THE QUALITY LEVEL, THE MORE INFORMATION IS KNOWN ABOUT THE SUBSURFACE UTILITY. THE QUALITY LEVEL OF A SUBSURFACE UTILITY MAY VARY ALONG ITS LENGTH DEPENDING ON THE ASSOCIATED ATTRIBUTE INFORMATION AND METADATA AVAILABLE.

QUALITY LEVEL D (QL-D) IS THE LOWEST OF THE FOUR QUALITY LEVELS. THE ATTRIBUTE INFORMATION CAN BE COMPILED FROM ANY, OR A COMBINATION OF THE FOLLOWING:

- (1) EXISTING RECORDS (DBYD PLANS)
- (2) CURSORY SITE INSPECTION
- (3) ANECDOTAL EVIDENCE

QUALITY LEVEL C (QL-C) IS DESCRIBED AS A SURFACE FEATURE CORRELATION OR AN INTERPRETATION OF THE APPROXIMATE LOCATION AND ATTRIBUTES OF A SUBSURFACE UTILITY ASSET USING A COMBINATION OF EXISTING RECORDS (AND/OR ANECDOTAL EVIDENCE) AND A SITE SURVEY OF VISIBLE EVIDENCE. THE MINIMUM REQUIREMENT FOR A QUALITY LEVEL C IS A RELATIVE HORIZONTAL SPATIAL POSITION WITH A MAXIMUM TOLERANCE OF +/- 300MM.

QUALITY LEVEL B (QL-B) DESCRIBES ASSETS LOCATED USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS AND LOCATING TECHNIQUES. THE INFORMATION REQUIRED TO ATTAIN QL-B MAY BE SOURCED THROUGH THE FOLLOWING METHODS:

- (1) SURVEY
- (2) TRACE

THE MINIMUM REQUIREMENT FOR A QUALITY LEVEL B IS A RELATIVE HORIZONTAL SPATIAL POSITION WITH A MAXIMUM TOLERANCE OF +/- 300MM AND A MAXIMUM VERTICAL TOLERANCE OF +/- 500MM. IF QUALITY LEVEL B INFORMATION IS COMPILED USING ELECTRONIC DETECTION, IT IS ONLY AN INDICATION OF THE EXISTENCE OF SUBSURFACE UTILITIES AND DOES NOT VALIDATE THE UTILITY LOCATION OR ATTRIBUTES.

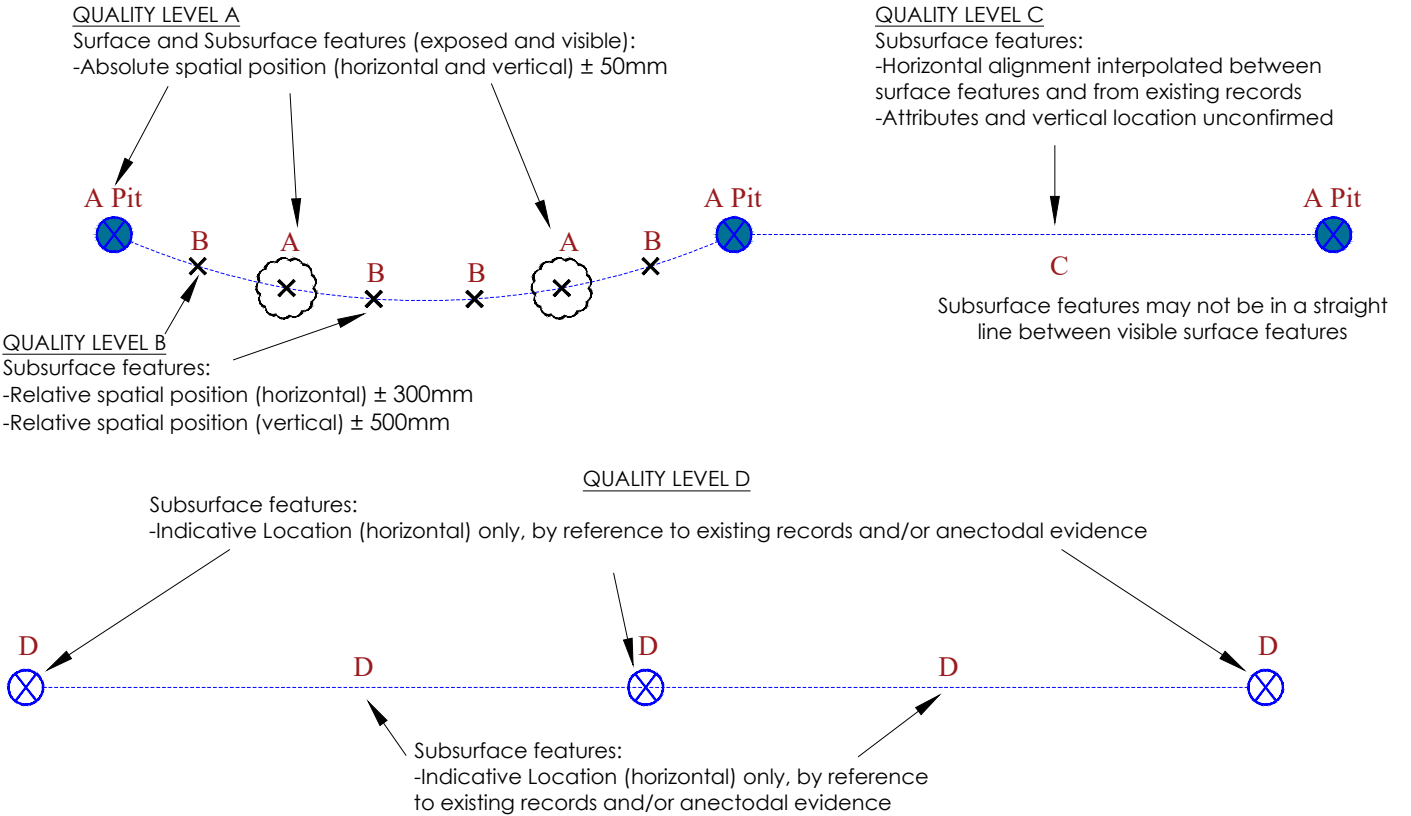
QUALITY LEVEL A (QL-A) IS THE HIGHEST QUALITY LEVEL AND CONSISTS OF THE PHYSICAL IDENTIFICATION OF THE ATTRIBUTE AND LOCATION OF A SUBSURFACE UTILITY AT A POINT TO AN ABSOLUTE SPATIAL POSITION IN THREE DIMENSIONS. THE MAXIMUM TOLERANCE FOR BOTH HORIZONTAL AND VERTICAL POSITION IS +/- 50MM. IT IS THE ONLY QUALITY LEVEL THAT DEFINES A SUBSURFACE UTILITY AS 'VALIDATED'. IF THE WHOLE LINE SEGMENT CANNOT BE VERIFIED BY LINE OF SIGHT, QUALITY LEVEL A SHALL NOT BE ATTRIBUTED TO THE LINE SEGMENT BETWEEN VALIDATED POINTS. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OR SHALLOWEST PART OF THE LOCATED SERVICE. IN THE CASE OF SEWER AND STORMWATER ASSETS THE INFORMATION COLLECTED FOR THESE ASSETS IS RECORDED TO THE INVERT LEVEL, WHERE AVAILABLE, AT THE RESPECTIVE ACCESS POINTS.

IT REMAINS THE RESPONSIBILITY OF THE COMPANY AND INDIVIDUAL CONDUCTING PHYSICAL WORKS TO ENSURE UP TO DATE DIAL BEFORE YOU DIG (DBYD) PLANS ARE CONSULTED AND AVAILABLE ON HAND DURING ANY WORKS.

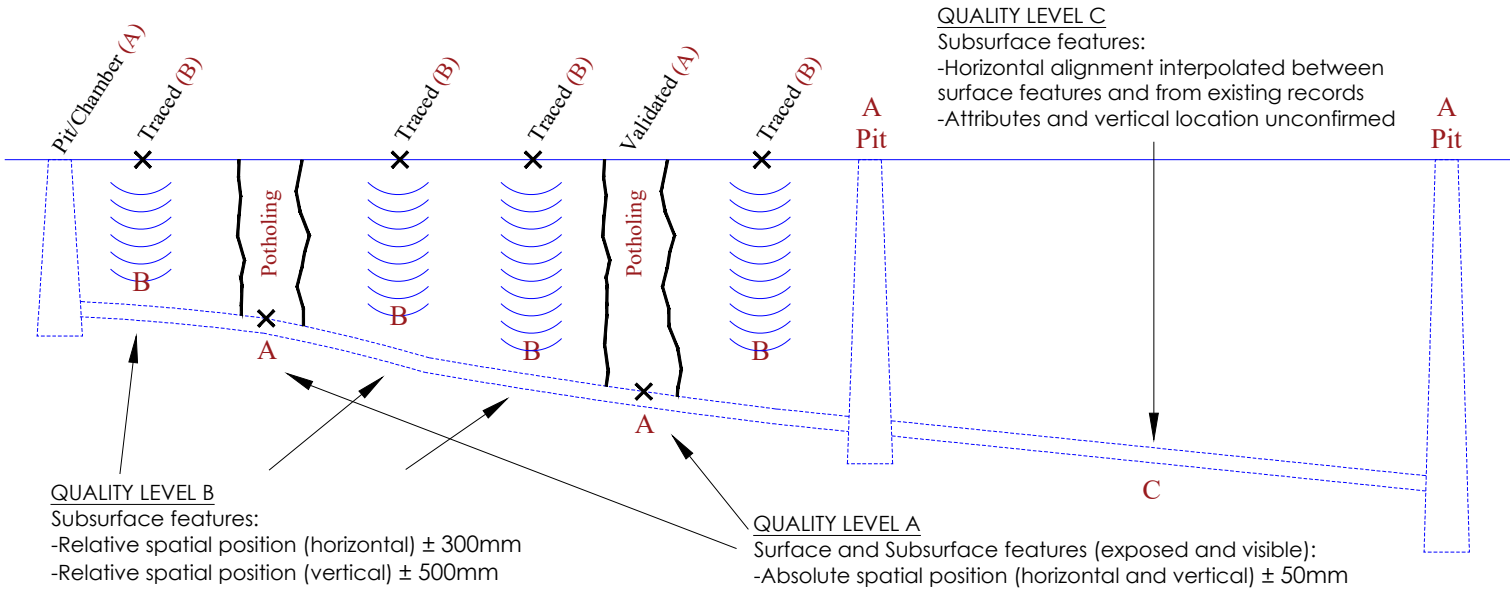


VARYING QUALITY LEVELS

(Taken from AS 5488-2019)



PLAN VIEW



LONGITUDINAL SECTION

VERIS LEGEND

WATER MAIN (WM)	— W —
WATER HOUSE CONNECTION (WY)	— WH —
WATER MAIN - RECYCLED (WR)	— WR —
WATER MAIN - DIGITISED (WZ)	— WZ —
UNIDENTIFIED PIPELINE (??)	— ?? —
GAS MAIN - QENOS HIGH PRESSURE PIPELINE (HG)	— HG —
GAS MAIN - QENOS LOW PRESSURE (LG)	— LG —
GAS HOUSE CONNECTION (DG)	— GH —
GAS MAIN - QENOS DIGITISED (GZ)	— GZ —
ELECTRIC LINE - MINOR TRANSMISSION (E)	— E —
ELECTRIC LINE - UNDERGROUND (EU)	— EU —
ELECTRIC HOUSE CONNECTION (EY)	— EH —
ELECTRIC LINE - DIGITISED (EZ)	— EZ —
SEWER MAIN (SM)	— S —
SEWER HOUSE CONNECTION (SY)	— SH —
SEWER MAIN - DIGITISED (SZ)	— SZ —
DRAINAGE PIPE - (Ø225)	— Ø225 —
DRAINAGE PIPE - (Ø300)	— Ø300 —
DRAINAGE PIPE - (Ø375)	— Ø375 —
DRAINAGE PIPE - (Ø450)	— Ø450 —
DRAINAGE PIPE - (Ø525)	— Ø525 —
DRAINAGE PIPE - (Ø600)	— Ø600 —
DRAINAGE PIPE - (Ø750)	— Ø750 —
DRAINAGE PIPE - (Ø900)	— Ø900 —
DRAINAGE PIPE - (Ø1200)	— Ø1200 —
DRAINAGE PIPE - UNSPECIFIED DIAMETER (Ø?)	— Ø? —
DRAINAGE PIPE - DIGITISED (DZ)	— DZ —
COMMUNICATION LINE (C)	— C —
TELEPHONE LINE (TN)	— T —
TELEPHONE HOUSE CONNECTION (TY)	— TH —
TELEPHONE LINE - DIGITISED (TZ)	— TZ —
OPTICAL FIBRE - UNDERGROUND (OU)	— OU —
OPTICAL FIBRE - DIGITISED (OZ)	— OZ —
WATER HYDRANT (PWHT)	□ WH
WATER STOP VALVE (PWSV)	△
WATER FIRE HYDRANT (PWFB)	⊗
WATER METER (PWMR)	⊗
METER (PGMR)	#
PIPELINE MARKER (PGPM)	⊗ GP
GAS MANHOLE COVER (PGHL)	□ GWH
TELSTRA SINGLE CONC. PIT (PTSP)	⊠
TELSTRA TWIN CONC. PIT (PTTP)	⊠
TELSTRA DISTRIBUTION PILLAR	⊠ TDP
OPTICAL FIBRE PIT (POFP)	□ OFF
ELECTRIC CABLE MANHOLE (PEMH)	⊠ EMH
POLE - LIGHT (PLPL)	⊗
POLE - POWER & LIGHT (PPLP)	⊗
ELECTRIC CABLE JUNCTION BOX (PEJB)	□ EJB
TRAFFIC SIGNAL CONTROLLER (PSC)	⊠ TSC
POWER SERVICE PILLAR - UNDERGROUND (PEUP)	⊗
GULLY PIT POINT (PGUL)	⊠
DRAINAGE PIT (DP)	⊠
DRAINAGE JUNCTION MANHOLE (PDJM)	⊠
SEWER MANHOLE COVER (PSMH)	⊠
POTHOLE INDICATOR	□ PHOLE / [ ]
END OF TRACE	EOT
UNABLE TO LOCATE	UTL
UNABLE TO TRACE	UTT
UNABLE TO OPEN	UTO
DENOTES INVESTIGATION AREA	[ ]

ISSUE	DATE	AMMENDMENT	BY	DISCLAIMER:
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.	SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES. AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.



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ABN 53 615 735 727

CLIENT

PROJECT TITLE

WATERLOO STATION

GENERAL NOTES AND LEGEND

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

LOCATED BY: L.B.

SURVEYED BY: Y.M./A.D.

DRAFTED BY: J.V.

CHECKED BY: K.S./B.M./J.A.

APPROVED BY: D.M.





THIS PLAN DOES NOT REPLACE DBYD PLANS

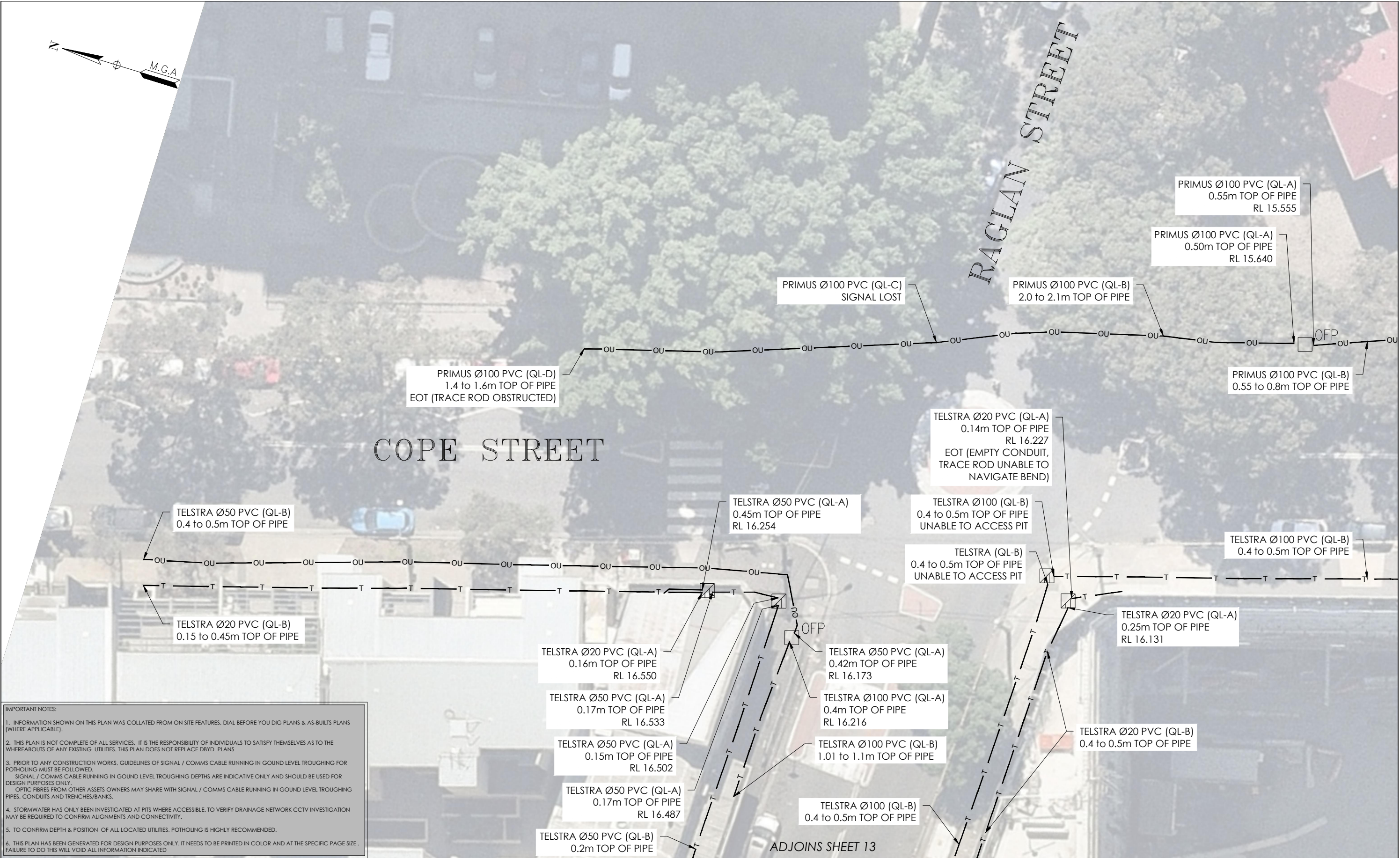
JOB NUMBER  
202254

DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 1 OF 75
DRAWING NUMBER / ISSUE 202254-UTILS-001A	

# OVERVIEW



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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.				WATERLOO STATION			
							KEY PLAN			
							DRAWING TITLE			
							SUB-SURFACE UTILITY PLAN			
							LOCATED BY: L.B.			
							SURVEYED BY: Y.M./A.D.			
							DRAFTED BY: J.V.			
							CHECKED BY: K.S./B.M./J.A.			
							APPROVED BY: D.M.			



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ISSUE	DATE	AMMENDMENT	BY
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PROJECT TITLE
WATERLOO STATION
TELEPHONY AND COMMS
DRAWING TITLE
SUB-SURFACE UTILITY PLAN

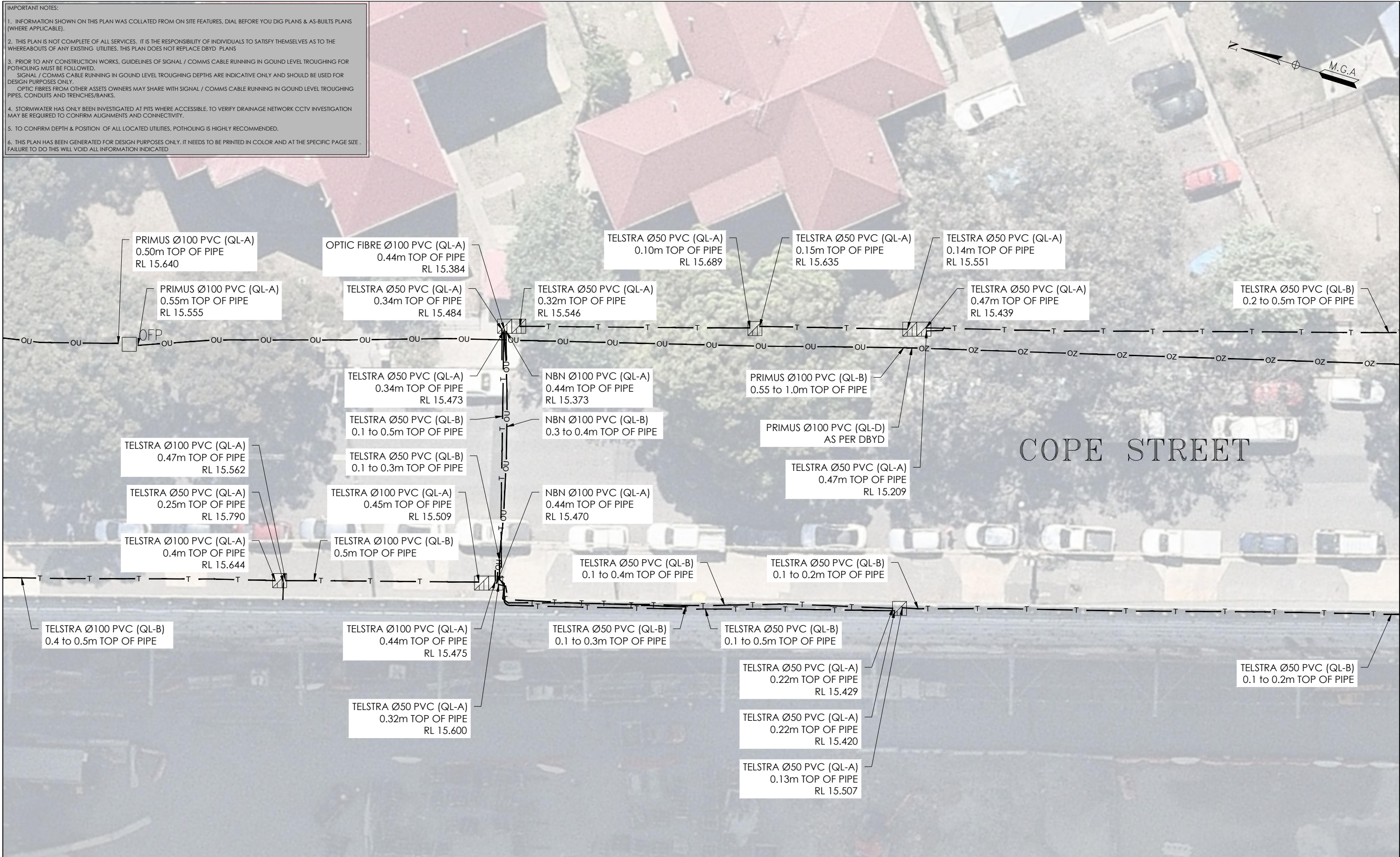
0 2 4 6 8 10
SCALE IN METERS 1: 250
LOCATED BY: L.B.
SURVEYED BY: Y.M./A.D.
DRAFTED BY: J.V.
CHECKED BY: K.S./B.M./J.A.
APPROVED BY: D.M.



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202254 202254-UTILS-001A	

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ADJOINS SHEET 3



ADJOINS SHEET 5

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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.										
				<p>JOB NUMBER</p> <p>202254</p>		<p>DRAWING NUMBER / ISSUE</p> <p>202254-UTILS-001A</p>							

ADJOINS SHEET 4



ADJOINS SHEET 6

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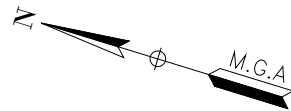
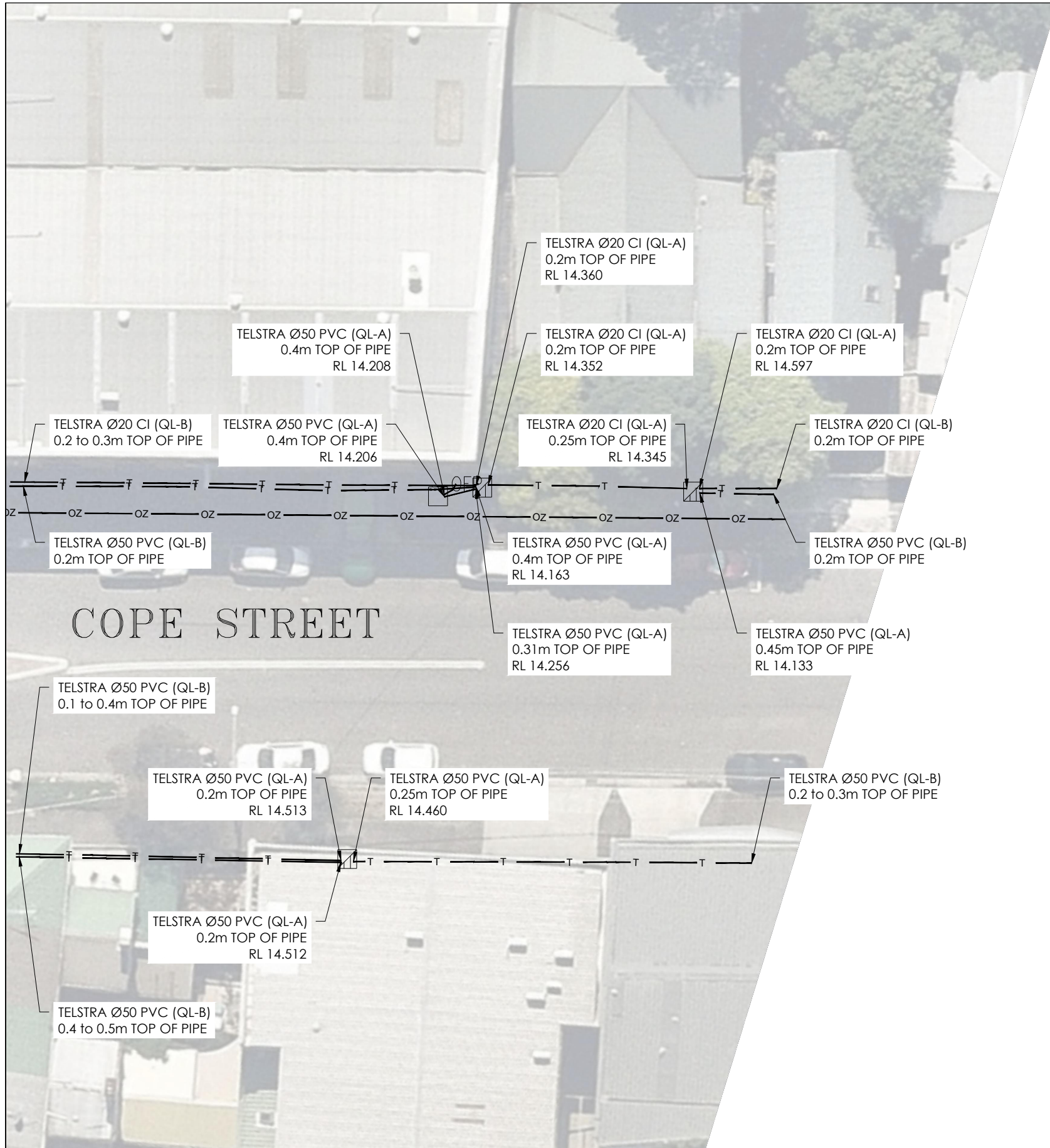
ADJOINS SHEET 8

COPE STREET

WELLINGTON STREET

ADJOINS SHEET 7

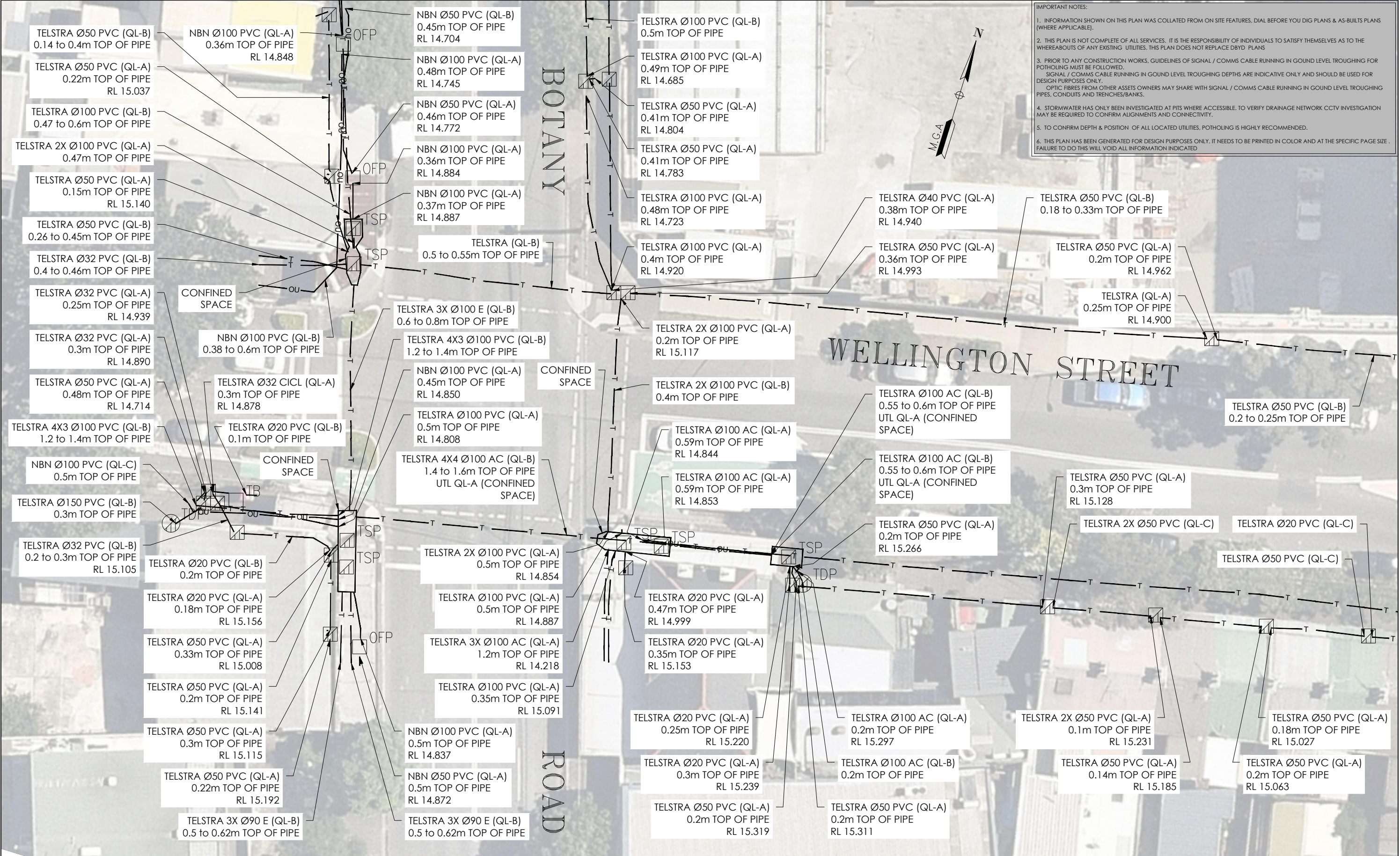
ISSUE	DATE	AMMENDMENT	BY	DISCLAIMER:	<div><div></div><div>veris</div></div> <div>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128  T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</div>	CLIENT	PROJECT TITLE	<div><div>0246810</div><div>SCALE IN METERS 1: 250</div></div>	<div><div><div><div></div><div>DIAL BEFORE YOU DIG</div><div>www.1100.com.au</div></div></div><div>THIS PLAN DOES NOT REPLACE DBYD PLANS</div></div>	DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.	SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.		JOHN HOLLAND	WATERLOO STATION TELEPHONY AND COMMS	LOCATED BY: L.B.	HEIGHT DATUM: AHD71	CO-ORD: MGA94	
							DRAWING TITLE	SURVEYED BY: Y.M./A.D.	DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020	
							SUB-SURFACE UTILITY PLAN	DRAFTED BY: J.V.	ORIGINAL SIZE: A3	SHEET: 6 OF 75	
								CHECKED BY: K.S./B.M./J.A.	JOB NUMBER	DRAWING NUMBER / ISSUE	
								APPROVED BY: D.M.	202254	202254-UTILS-001A	



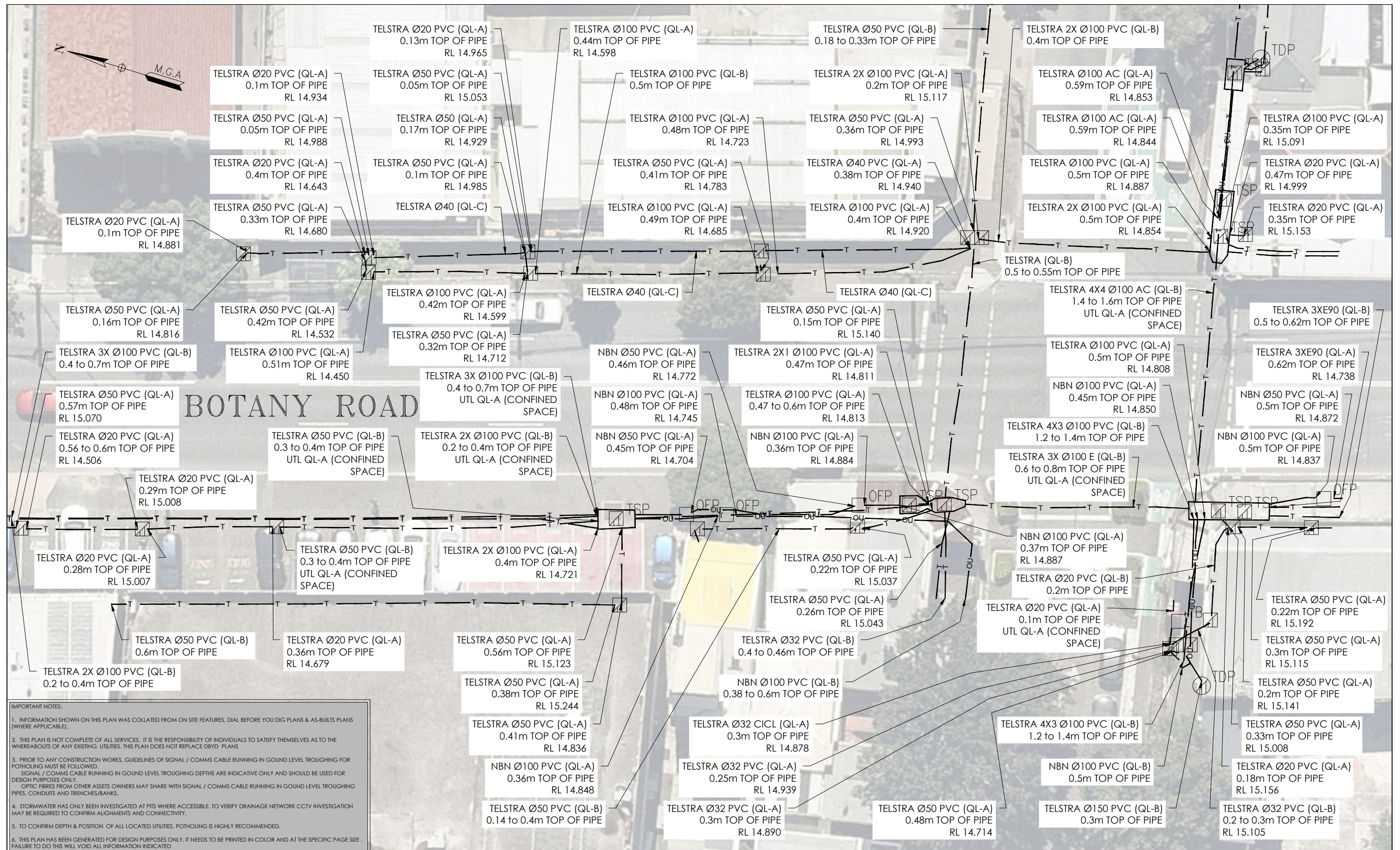
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ISSUE	DATE	AMMENDMENT	BY	<p><b>DISCLAIMER:</b></p> <p>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</p>	<div><div></div><div>veris</div></div> <p>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</p> <p>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</p>	<p>CLIENT</p> <div><div></div><div>JOHN HOLLAND</div></div>	PROJECT TITLE	<div><div>0246810</div><div>SCALE IN METERS 1: 250</div></div>	<div><div><div><div></div><div>DIAL BEFORE YOU DIG</div><div>www.1100.com.au</div></div></div><div>THIS PLAN DOES NOT REPLACE DBYD PLANS</div></div>	<div><div>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</div><div><div>DATE OF SURVEY: 24/06/2020</div><div>DATE OF PLAN: 03/06/2020</div><div>HEIGHT DATUM: AHD71</div><div>CO-ORD: MGA94</div><div>DBYD JOB#: 19449303/22/34</div><div>DBYD DATE: 30/04/2020</div><div>ORIGINAL SIZE: A3</div><div>SHEET: 7 OF 75</div></div></div>	
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.								
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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.												
				SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER ASS488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.											
									DRAWING TITLE		LOCATED BY: L.B. SURVEYED BY: Y.M./A.D. DRAFTED BY: J.V. CHECKED BY: K.S./B.M./J.A. APPROVED BY: D.M.		THIS PLAN DOES NOT REPLACE DBYD PLANS		
									SUB-SURFACE UTILITY PLAN			JOB NUMBER 202254		DRAWING NUMBER / ISSUE 202254-UTILS-001A	



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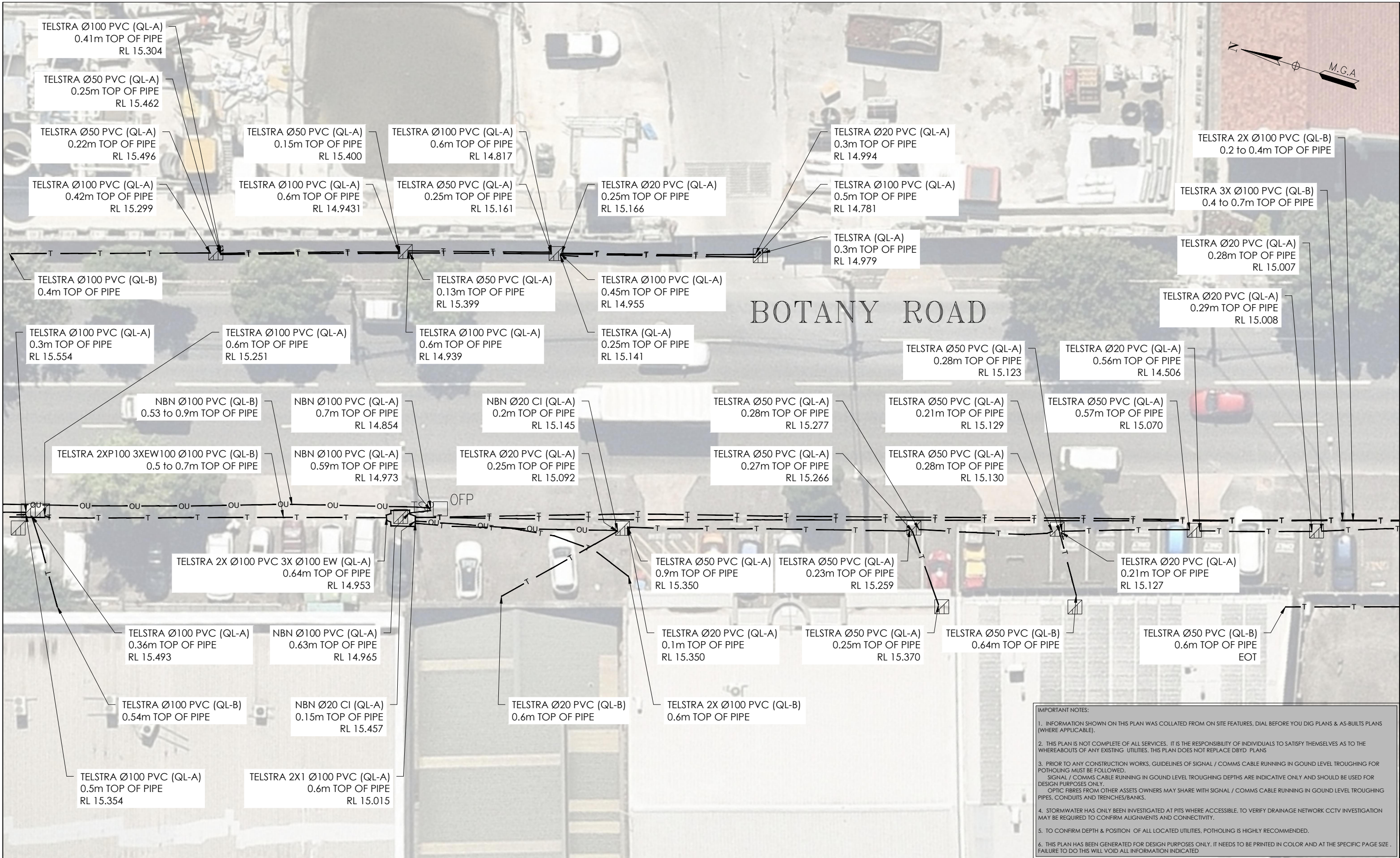
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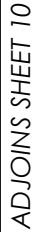
<b>ISSUE</b>	<b>DATE</b>	<b>AMMENDMENT</b>	<b>BY</b>	<b>DISCLAIMER:</b>	<p>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</p> <p>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</p>	<b>CLIENT</b>	<b>PROJECT TITLE</b>	<p>SCALE IN METERS 1: 250</p>	<p><b>THIS PLAN DOES NOT REPLACE DBYD PLANS</b></p> <p>JOB NUMBER <b>202254</b></p>	<b>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</b>		
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.	SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.			WATERLOO STATION			DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020	
							TELEPHONY AND COMMS			LOCATED BY: L.B.	HEIGHT DATUM: AHD71	CO-ORD: MGA94
										SURVEYED BY: Y.M./A.D.	DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
										DRAFTED BY: J.V.	ORIGINAL SIZE: A3	SHEET: 9 OF 75
							SUB-SURFACE UTILITY PLAN			DRAWING NUMBER / ISSUE 202254-UTILS-001A		




ADJOINS SHEET 11

ADJOINS SHEET 9



ISSUE	DATE	AMMENDMENT	BY	DISCLAIMER:			CLIENT	PROJECT TITLE	0246810		THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS & LEGEND							
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								DRAWING TITLE	LOCATED BY: L.B.	JOB NUMBER	DATE OF SURVEY 24/06/2020							
								SUB-SURFACE UTILITY PLAN	SURVEYED BY: Y.M./A.D.	202254	03/06/2020							
									DRAFTED BY: J.V.		HEIGHT DATUM: AHD71							
									CHECKED BY: K.S./B.M./J.A.		CO-ORD: MGA94							
									APPROVED BY: D.M.		DBYD JOB #: 19449303/22/34							
											DBYD DATE: 30/04/2020							
											ORIGINAL SIZE: A3							
											SHEET: 10 OF 75							
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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.				<p>DATE OF SURVEY: 24/06/2020</p> <p>CO-ORD: MGA94</p> <p>DBYD JOB #: 19449303/22/34</p> <p>ORIGINAL SIZE: A3</p> <p>SHEET: 11 OF 75</p>			
							DRAWING TITLE	<p>LOCATED BY: L.B.</p> <p>SURVEYED BY: Y.M./A.D.</p> <p>DRAFTED BY: J.V.</p> <p>CHECKED BY: K.S./B.M./J.A.</p> <p>APPROVED BY: D.M.</p>	JOB NUMBER	DRAWING NUMBER / ISSUE
							SUB-SURFACE UTILITY PLAN		202254	202254-UTILS-001A

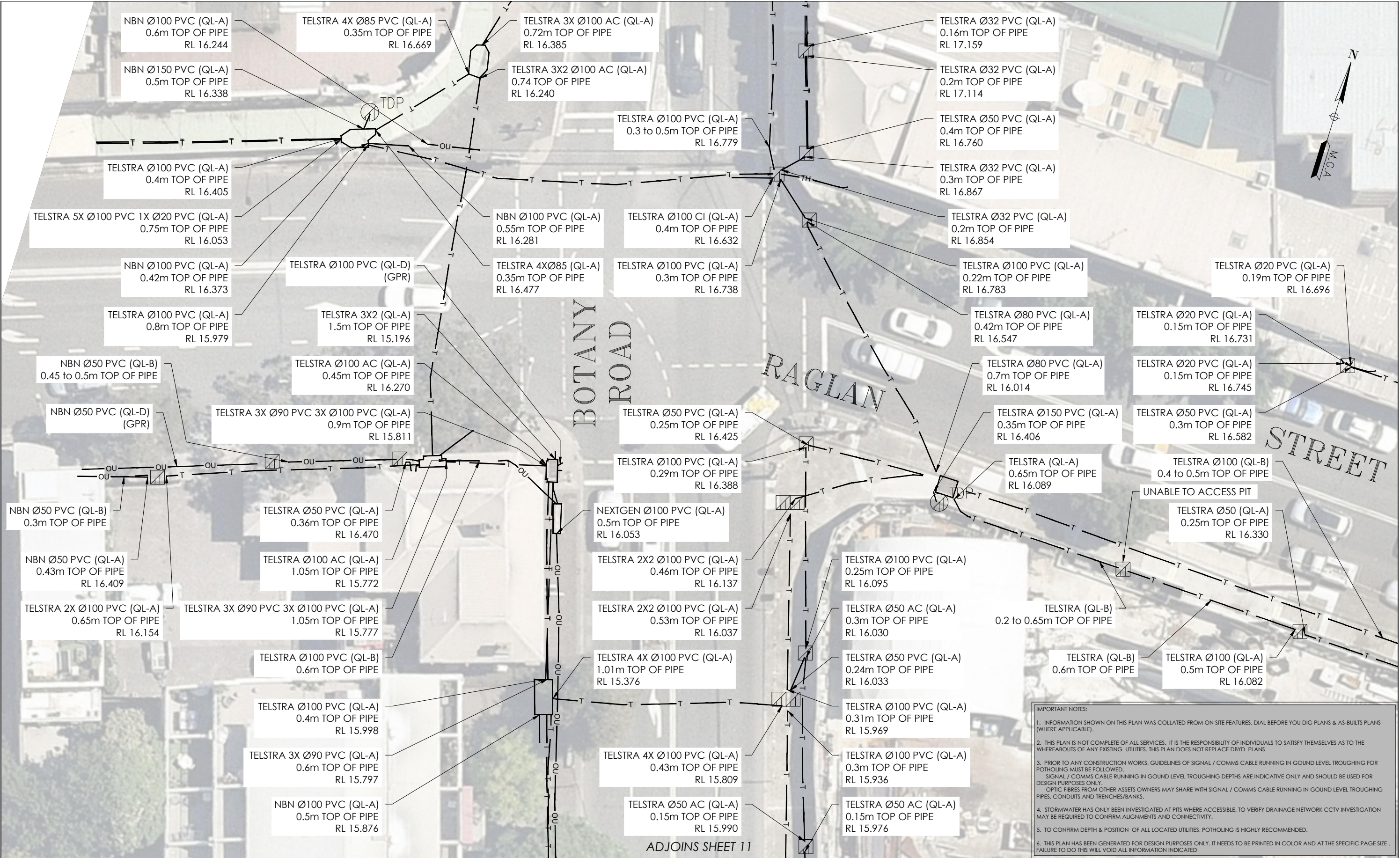


ADJOINS SHEET 11

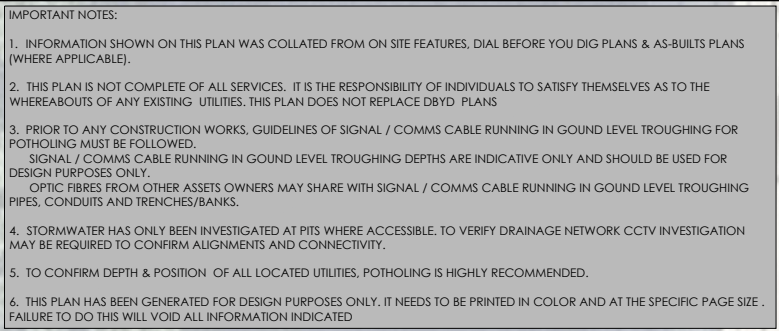
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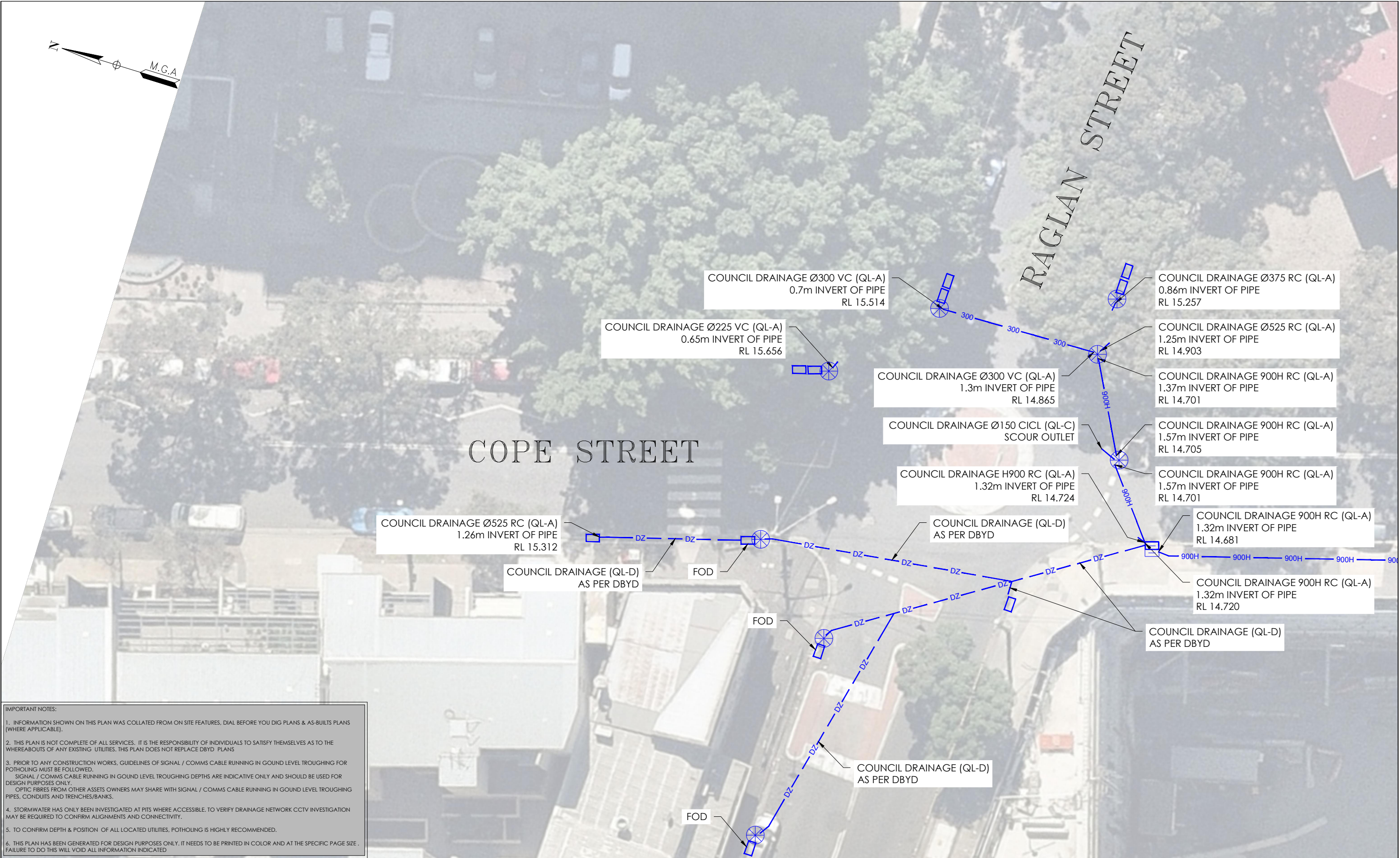
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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							



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								SUB-SURFACE UTILITY PLAN		JOB NUMBER 202254	



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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.						



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PO Box 6606, Silverwater, NSW 2128

T: 1300 765 315  
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W: www.veris.com.au  
ABN 53 615 735 727



PROJECT TITLE
WATERLOO STATION
DRAINAGE
DRAWING TITLE
SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250
LOCATED BY: L.B.
SURVEYED BY: Y.M./A.D.
DRAFTED BY: J.V.
CHECKED BY: K.S./B.M./J.A.
APPROVED BY: D.M.

**THIS PLAN DOES NOT REPLACE DBYD PLANS**

JOB NUMBER  
**202254**

THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS & LEGEND	
DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 15 OF 75
DRAWING NUMBER / ISSUE 202254-UTILS-001A	

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ADJOINS SHEET 17



ISSUE	DATE	AMMENDMENT	BY	<p><b>DISCLAIMER:</b></p> <p>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER AS5488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</p>	 <p>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</p> <p>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</p>	<p>CLIENT</p> <p><b>JOHN HOLLAND</b></p>	<p>PROJECT TITLE</p> <p>WATERLOO STATION DRAINAGE</p> <p>DRAWING TITLE</p> <p>SUB-SURFACE UTILITY PLAN</p>	 <p>SCALE IN METERS 1: 250</p> <p>LOCATED BY: L.B.</p> <p>SURVEYED BY: Y.M./A.D.</p> <p>DRAFTED BY: J.V.</p> <p>CHECKED BY: K.S./B.M./J.A.</p> <p>APPROVED BY: D.M.</p>	 <p>THIS PLAN DOES NOT REPLACE DBYD PLANS</p> <p>JOB NUMBER 202254</p>	<p>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</p> <p>DATE OF SURVEY: 24/06/2020 DATE OF PLAN: 03/06/2020</p> <p>HEIGHT DATUM: AHD71 CO-ORD: MGA94</p> <p>DBYD JOB #: 19449303/22/34 DBYD DATE: 30/04/2020</p> <p>ORIGINAL SIZE: A3 SHEET: 16 OF 75</p> <p>DRAWING NUMBER / ISSUE 202254-UTILS-001A</p>
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							



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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.				WATERLOO STATION			
							DRAINAGE			
							DRAWING TITLE			
							SUB-SURFACE UTILITY PLAN			

**COPE STREET**

**WELLINGTON STREET**

**ADJOINS SHEET 19**

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**COUNCIL DRAINAGE (QL-D) AS PER DBYD**

**FOD**

**COUNCIL DRAINAGE Ø600 RC (QL-A) 0.9m INVERT OF PIPE RL 13.754**

**COUNCIL DRAINAGE Ø600 RC (QL-A) 0.95m INVERT OF PIPE RL 13.735**

**COUNCIL DRAINAGE Ø600 RC (QL-A) 0.77m INVERT OF PIPE RL 13.893**

**COUNCIL DRAINAGE 2X Ø150 PVC (QL-A) 0.25m INVERT OF PIPE RL 14.430**

**COUNCIL DRAINAGE RC (QL-A) 0.47m INVERT OF PIPE RL 14.288**

**COUNCIL DRAINAGE (QL-D) AS PER DBYD**

**COUNCIL DRAINAGE Ø225 AC (QL-A) 0.67m INVERT OF PIPE RL 13.865**

**COUNCIL DRAINAGE 900H RC (QL-A) 1.14m TOP OF PIPE RL 13.461**

**COUNCIL DRAINAGE (QL-D) AS PER DBYD**

**COUNCIL DRAINAGE Ø150 PVC (QL-A) 0.0m INVERT OF PIPE RL 14.709**

**COUNCIL DRAINAGE Ø150 PVC (QL-C) 0.15m INVERT OF PIPE**

**COUNCIL DRAINAGE Ø100 PVC (QL-A) 0.0m INVERT OF PIPE RL 14.838**

**COUNCIL DRAINAGE Ø100 PVC (QL-C)**

**COUNCIL DRAINAGE 1.05H RC (QL-A) 1.5m TOP OF PIPE RL 13.288**

**COUNCIL DRAINAGE 900H RC (QL-A) 1.14m TOP OF PIPE RL 13.570**

**COUNCIL DRAINAGE 1.05H RC (QL-A) 1.5m TOP OF PIPE RL 13.273**

**COUNCIL DRAINAGE 900H RC (QL-C) 1.36m TOP OF PIPE UTL QL-A (CONFINED SPACE)**

**COUNCIL DRAINAGE Ø900 RC (QL-C) 1.35m TOP OF PIPE UTL QL-A (CONFINED SPACE)**

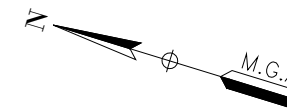
**COUNCIL DRAINAGE Ø900 RC (QL-A) 1.28m TOP OF PIPE RL 13.545**

**COUNCIL DRAINAGE Ø900 RC (QL-A) 1.3m TOP OF PIPE RL 13.522**

**H006**

**CONFINED SPACE**

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													202254	202254-UTILS-001A
							DRAWING TITLE							
							SUB-SURFACE UTILITY PLAN							



COPE STREET

COUNCIL DRAINAGE 1.05H RC (QL-A)  
1.5m TOP OF PIPE  
RL 13.273

COUNCIL DRAINAGE 900H RC (QL-A)  
1.14m TOP OF PIPE  
RL 13.570

COUNCIL DRAINAGE 1.05H RC (QL-A)  
1.5m TOP OF PIPE  
RL 13.288

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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.									WATERLOO STATION						
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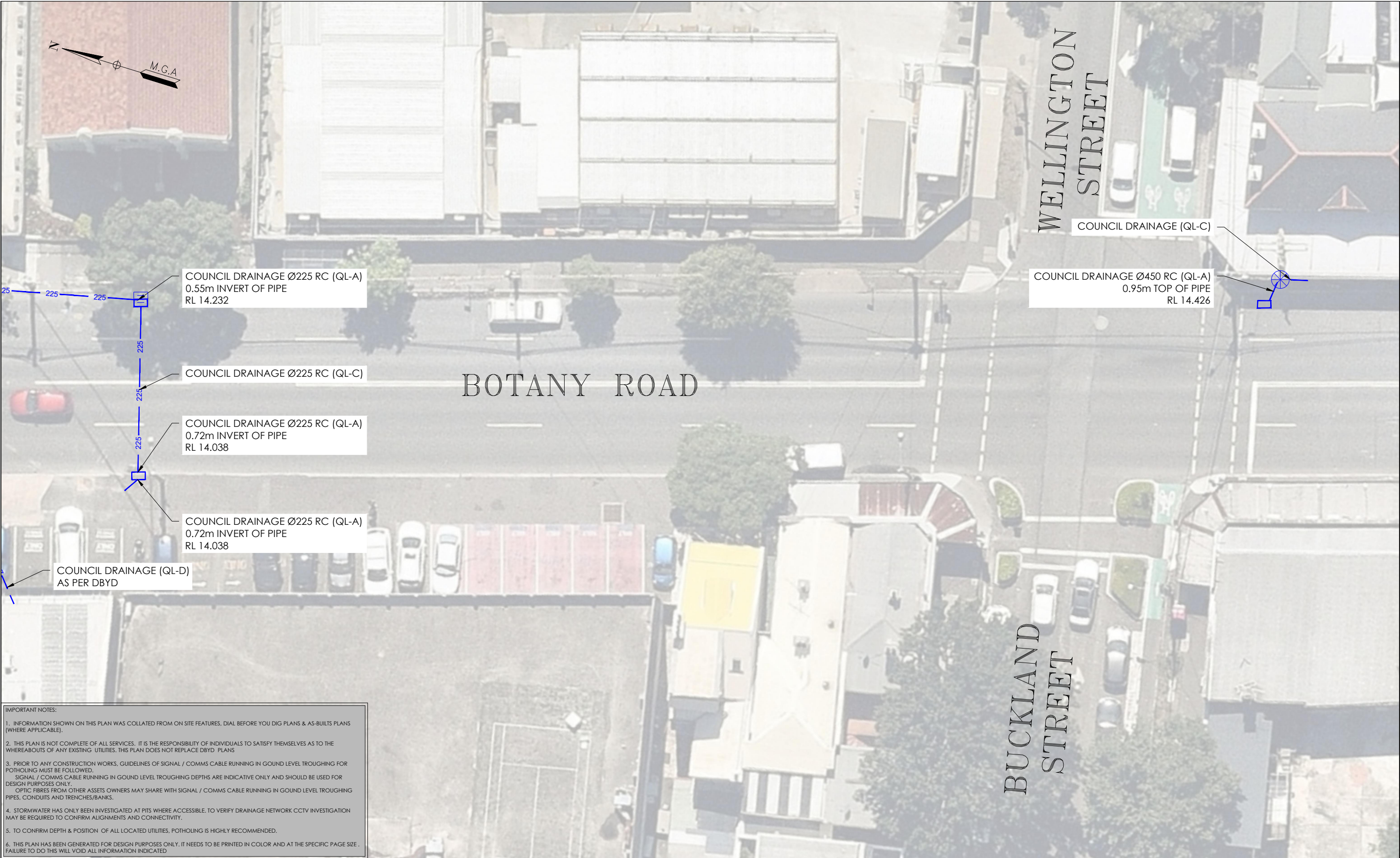
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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.						

ADJOINS SHEET 22



ADJOINS SHEET 20

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CLIENT

**JOHN  
HOLLAND**

PROJECT TITLE
WATERLOO STATION
DRAINAGE
DRAWING TITLE
SUB-SURFACE UTILITY PLAN

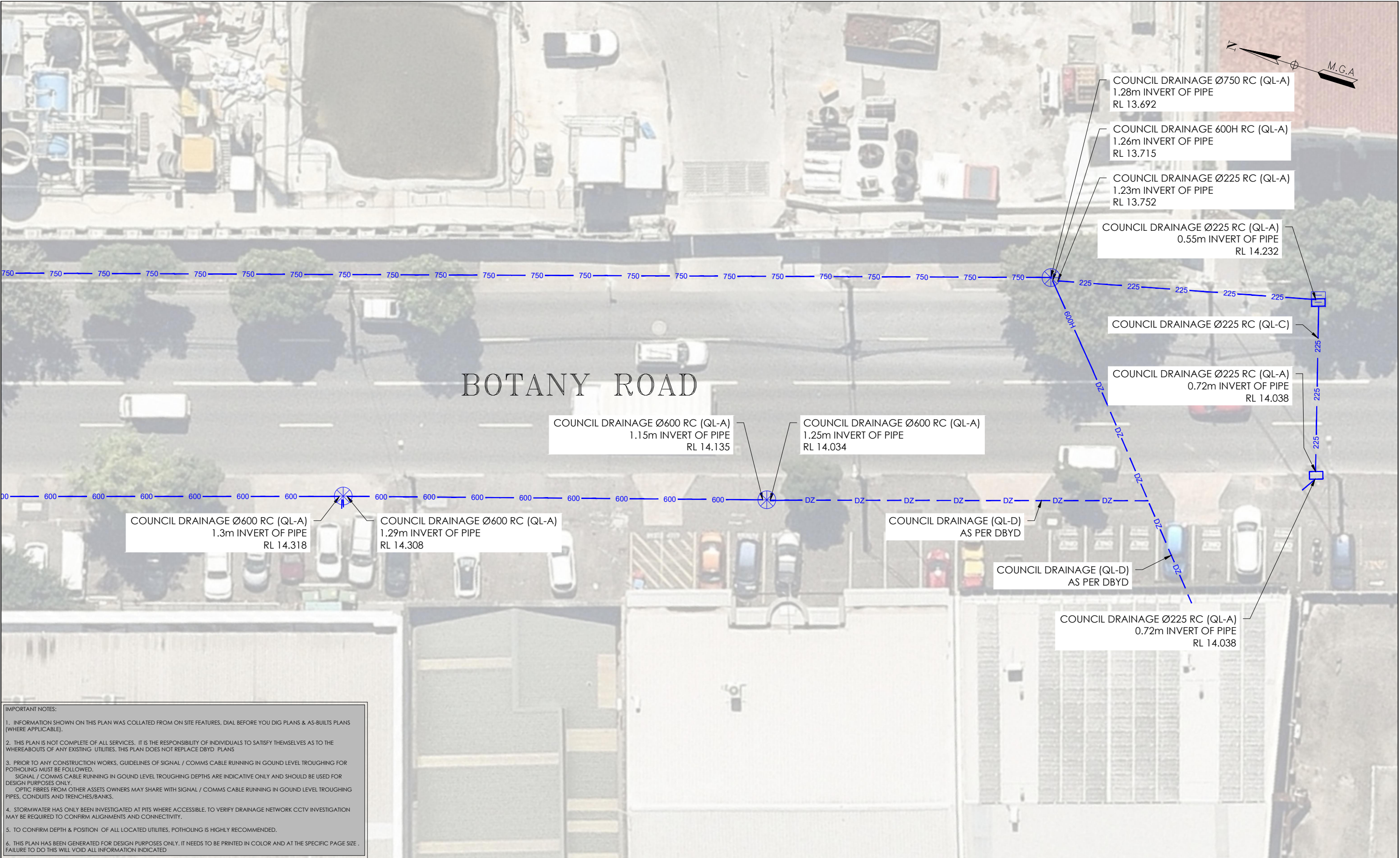
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**DIAL BEFORE YOU DIG**  
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JOB NUMBER  
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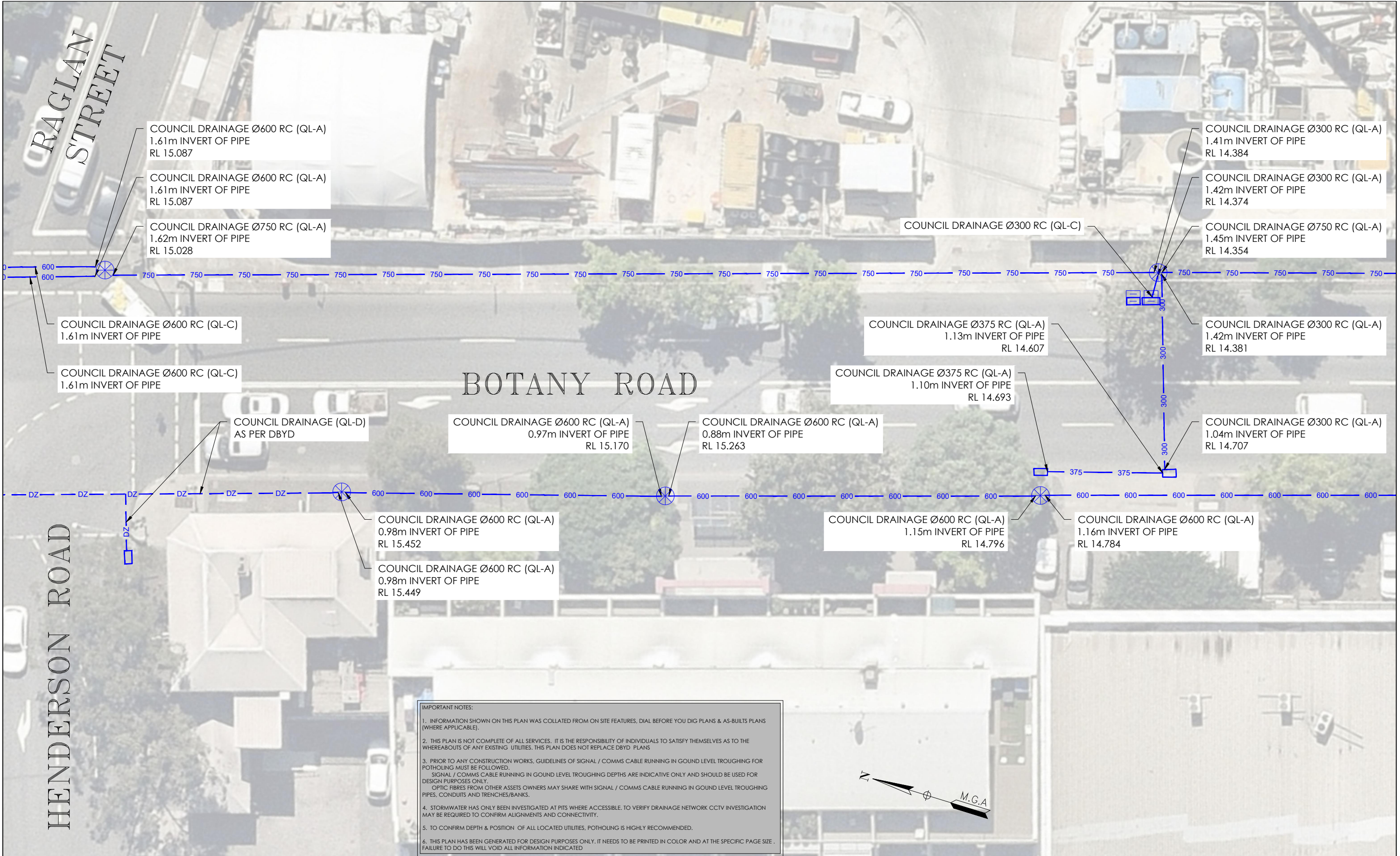
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DRAWING NUMBER / ISSUE 202254-UTILS-001A			



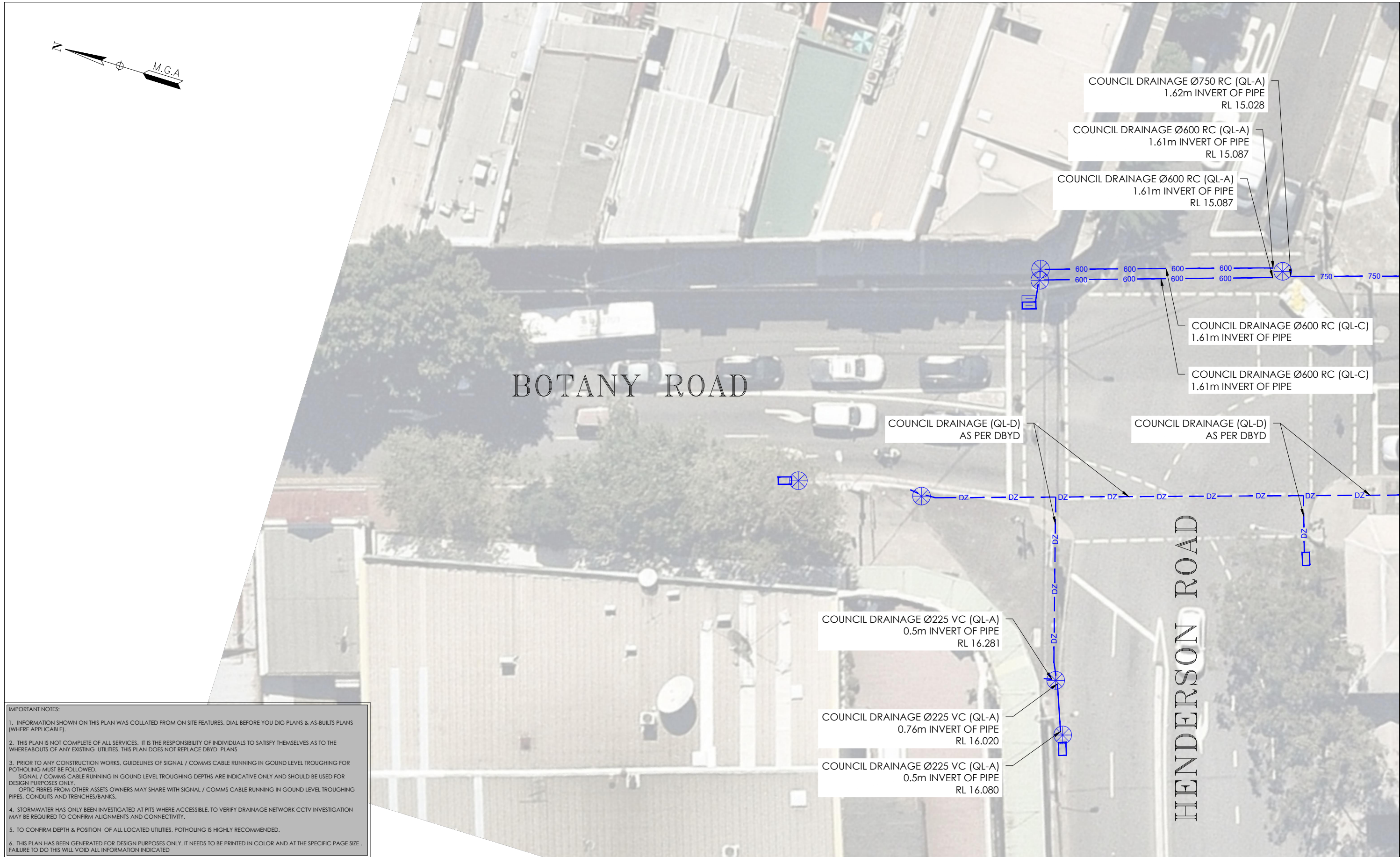
ISSUE	DATE	AMMENDMENT	BY	DISCLAIMER:	<div></div> <div>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128  T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</div>	<div></div>	CLIENT	PROJECT TITLE	<div> SCALE IN METERS 1: 250</div>	<div></div> <div>THIS PLAN DOES NOT REPLACE DBYD PLANS</div>	JOB NUMBER 202254	DRAWING NUMBER / ISSUE 202254-UTILS-001A	
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.	SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER ASS488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.									
								DRAWING TITLE	LOCATED BY: L.B.	SURVEYED BY: Y.M./A.D.	DRAFTED BY: J.V.	CHECKED BY: K.S./B.M./J.A.	APPROVED BY: D.M.
								SUB-SURFACE UTILITY PLAN					

ADJOINS SHEET 24

ADJOINING SHEET ZZ



ISSUE	DATE	AMMENDMENT	BY	<div>DISCLAIMER:</div> <div>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES. AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER A5548B. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</div> <div><div><div>veris</div></div><div><div>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</div><div>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</div></div></div> <div><div>CLIENT</div><div><div>JOHN HOLLAND</div></div></div> <div><div><div>PROJECT TITLE</div><div>WATERLOO STATION DRAINAGE</div><div>DRAWING TITLE</div><div>SUB-SURFACE UTILITY PLAN</div></div><div><div><div>0246</div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div>SCALE IN METERS 1: 250</div><div><div>LOCATED BY: L.B.</div><div>SURVEYED BY: Y.M./A.D.</div><div>DRAFTED BY: J.V.</div><div>CHECKED BY: K.S./B.M./J.A.</div><div>APPROVED BY: D.M.</div></div></div><div><div><div><div><div><div><div></div><div>DIAL BEFORE YOU DIG</div><div>www.1100.com.au</div></div></div><div>THIS PLAN DOES NOT REPLACE DBYD PLANS</div></div><div><div>JOB NUMBER</div><div>202254</div></div><div><div>DRAWING NUMBER / ISSUE</div><div>202254-UTILS-001A</div></div></div><div><div><div>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</div><div><div>DATE OF SURVEY: 24/06/2020</div><div>DATE OF PLAN: 03/06/2020</div></div><div><div>HEIGHT DATUM: AHD71</div><div>CO-ORD: MGA94</div></div><div><div>DBYD JOB#: 19449303/22/34</div><div>DBYD DATE: 30/04/2020</div></div><div><div>ORIGINAL SIZE: A3</div><div>SHEET: 23 OF 75</div></div></div></div></div></div></div>
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A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.							
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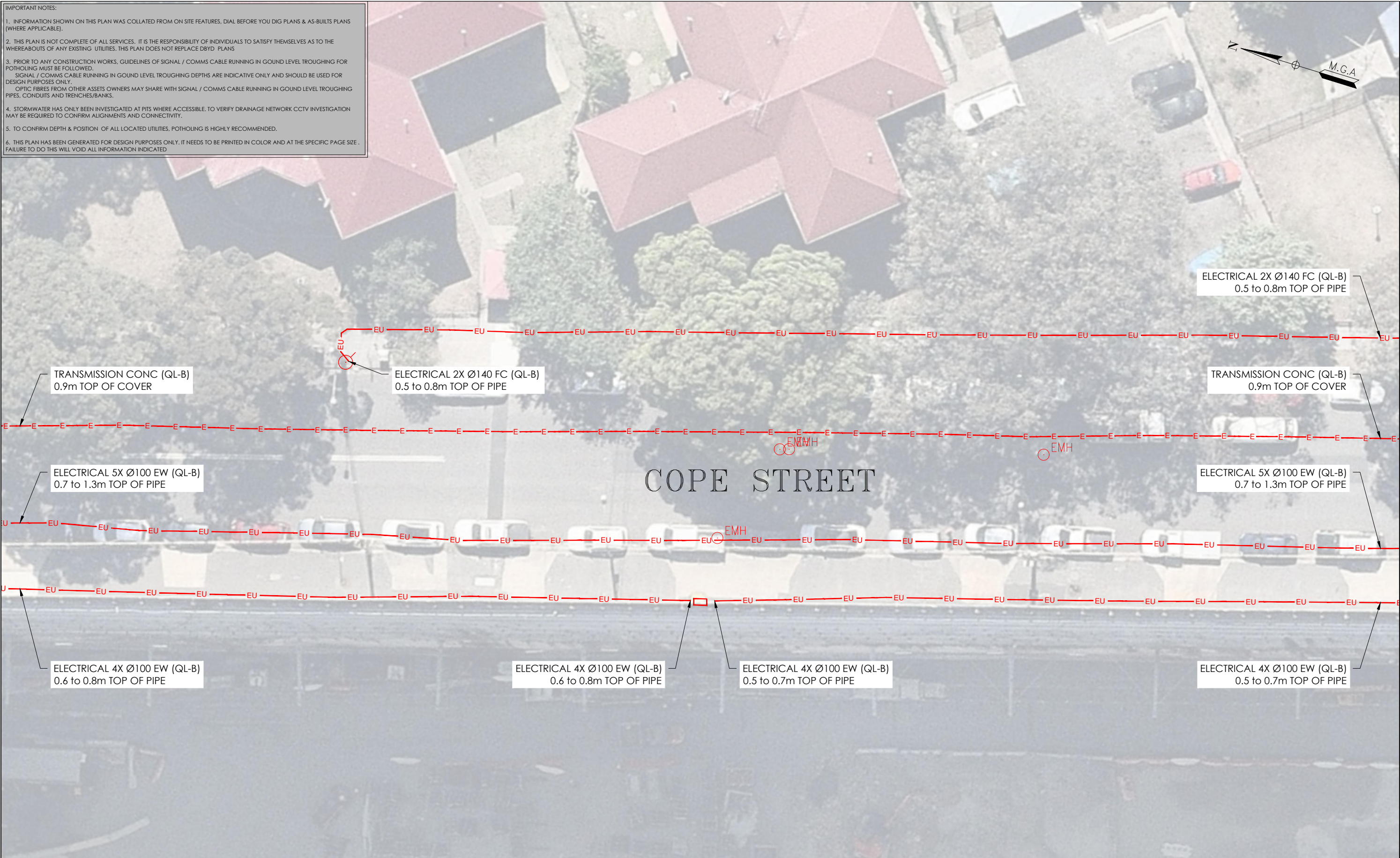
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ADJOINS SHEET 25

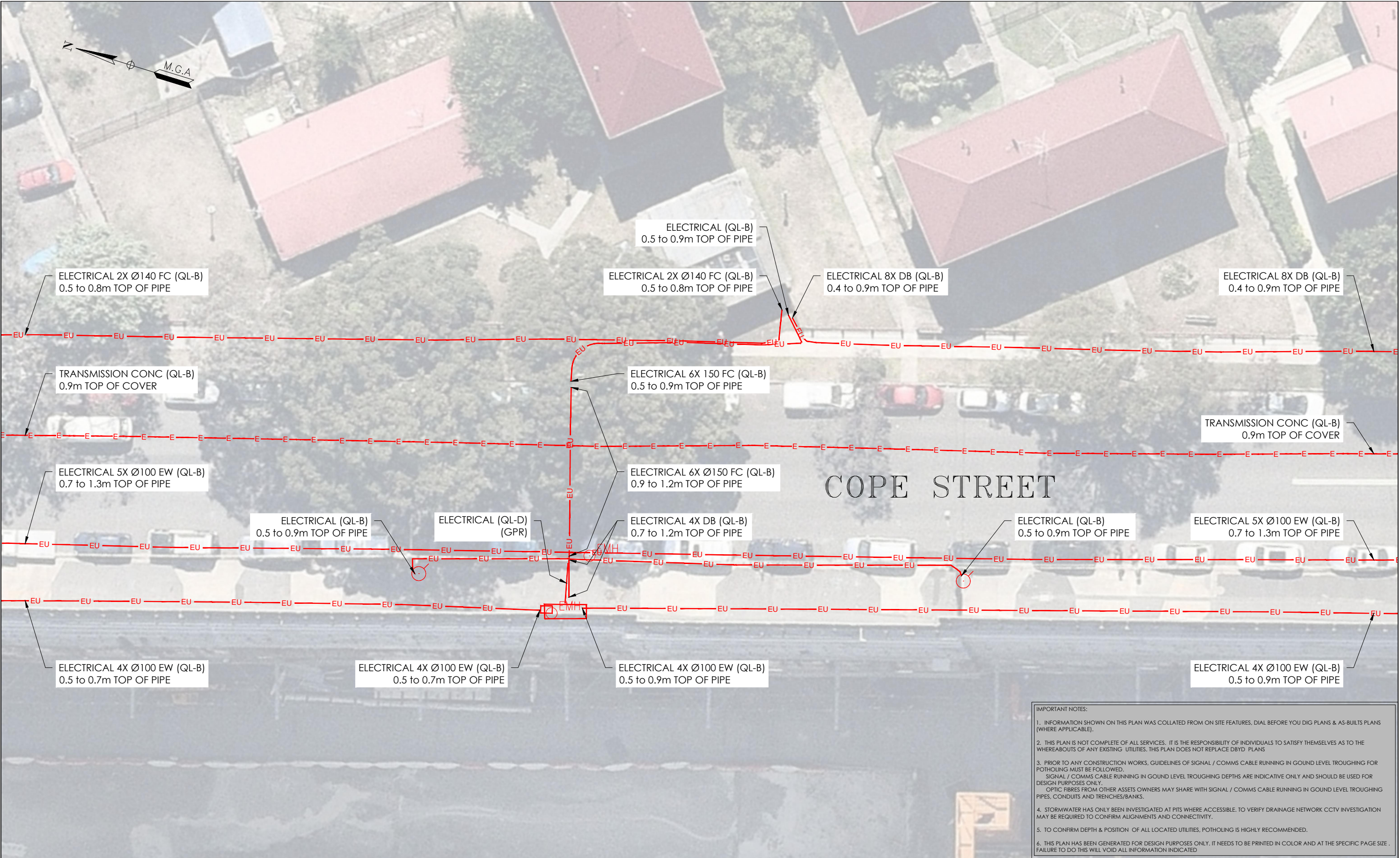


ADJOINS SHEET 27

ISSUE	DATE	AMMENDMENT	BY	<p><b>DISCLAIMER:</b></p> <p>SUBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED THROUGH A RANGE OF TECHNIQUES, AS SUCH THE ACCURACY AND ASSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER ASS488. VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER OR FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.</p>	 <p>Head Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606, Silverwater, NSW 2128</p> <p>T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727</p>	<p>CLIENT</p> 	PROJECT TITLE	 <p>SCALE IN METERS 1: 250</p>	 <p>THIS PLAN DOES NOT REPLACE DBYD PLANS</p>	<p>THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS &amp; LEGEND</p> <table><tr><td>DATE OF SURVEY: 24/06/2020</td><td>DATE OF PLAN: 03/06/2020</td></tr><tr><td>HEIGHT DATUM: AHD71</td><td>CO-ORD: MGA94</td></tr><tr><td>DBYD JOB#: 19449303/22/34</td><td>DBYD DATE: 30/04/2020</td></tr><tr><td>ORIGINAL SIZE: A3</td><td>SHEET: 26 OF 75</td></tr></table>	DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020	HEIGHT DATUM: AHD71	CO-ORD: MGA94	DBYD JOB#: 19449303/22/34	DBYD DATE: 30/04/2020	ORIGINAL SIZE: A3	SHEET: 26 OF 75
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ORIGINAL SIZE: A3	SHEET: 26 OF 75																	
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.															
									</									

ADJOINS SHEET 26

ADJOINS SHEET 28



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ABN 53 615 735 727

CLIENT

**JOHN  
HOLLAND**

PROJECT TITLE

WATERLOO STATION  
ELECTRICAL

DRAWING TITLE

SUB-SURFACE UTILITY PLAN



LOCATED BY: L.B.  
SURVEYED BY: Y.M./A.D.  
DRAFTED BY: J.V.  
CHECKED BY: K.S./B.M./J.A.  
APPROVED BY: D.M.



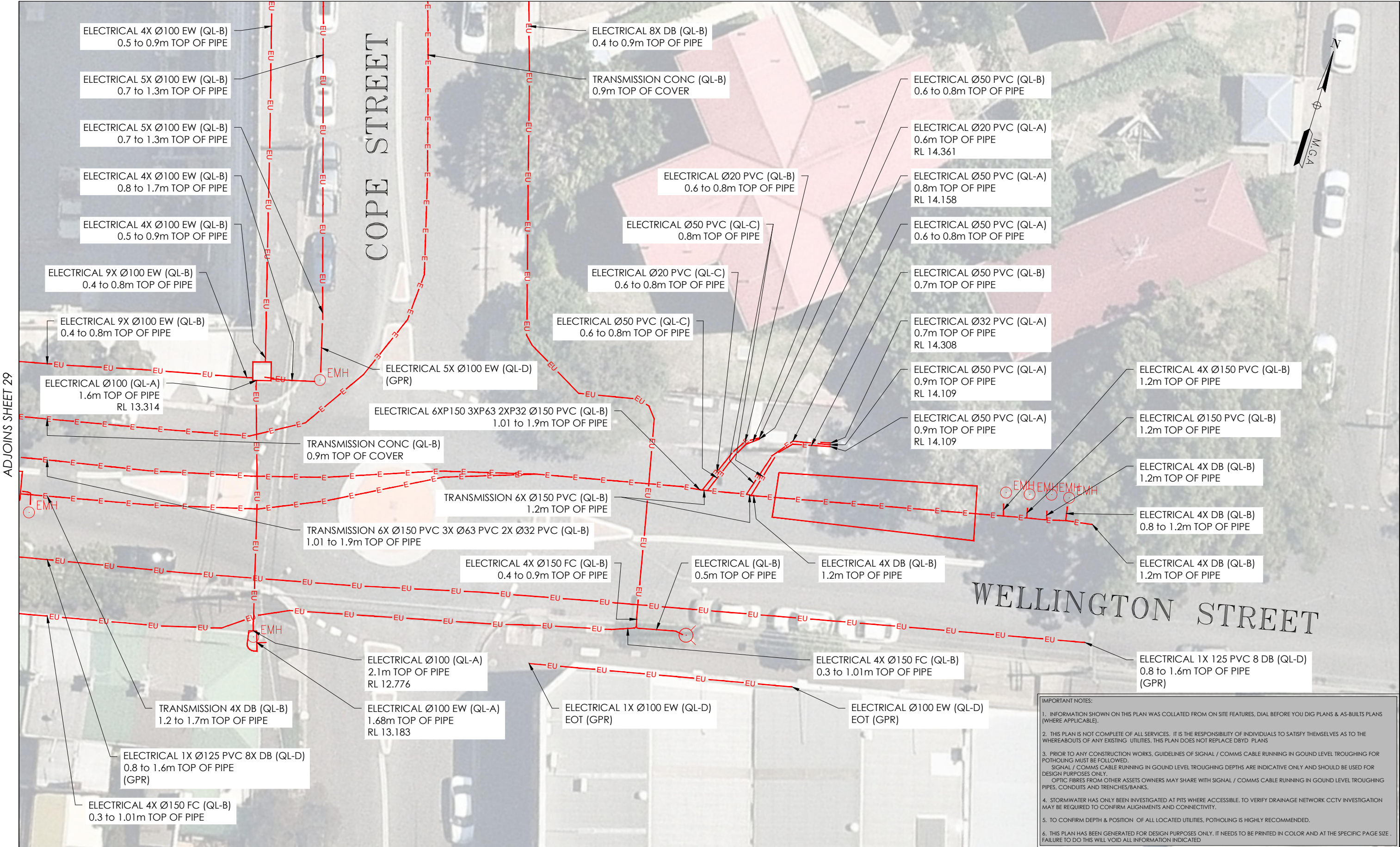
**THIS PLAN DOES  
NOT REPLACE  
DBYD PLANS**

JOB NUMBER  
**202254**

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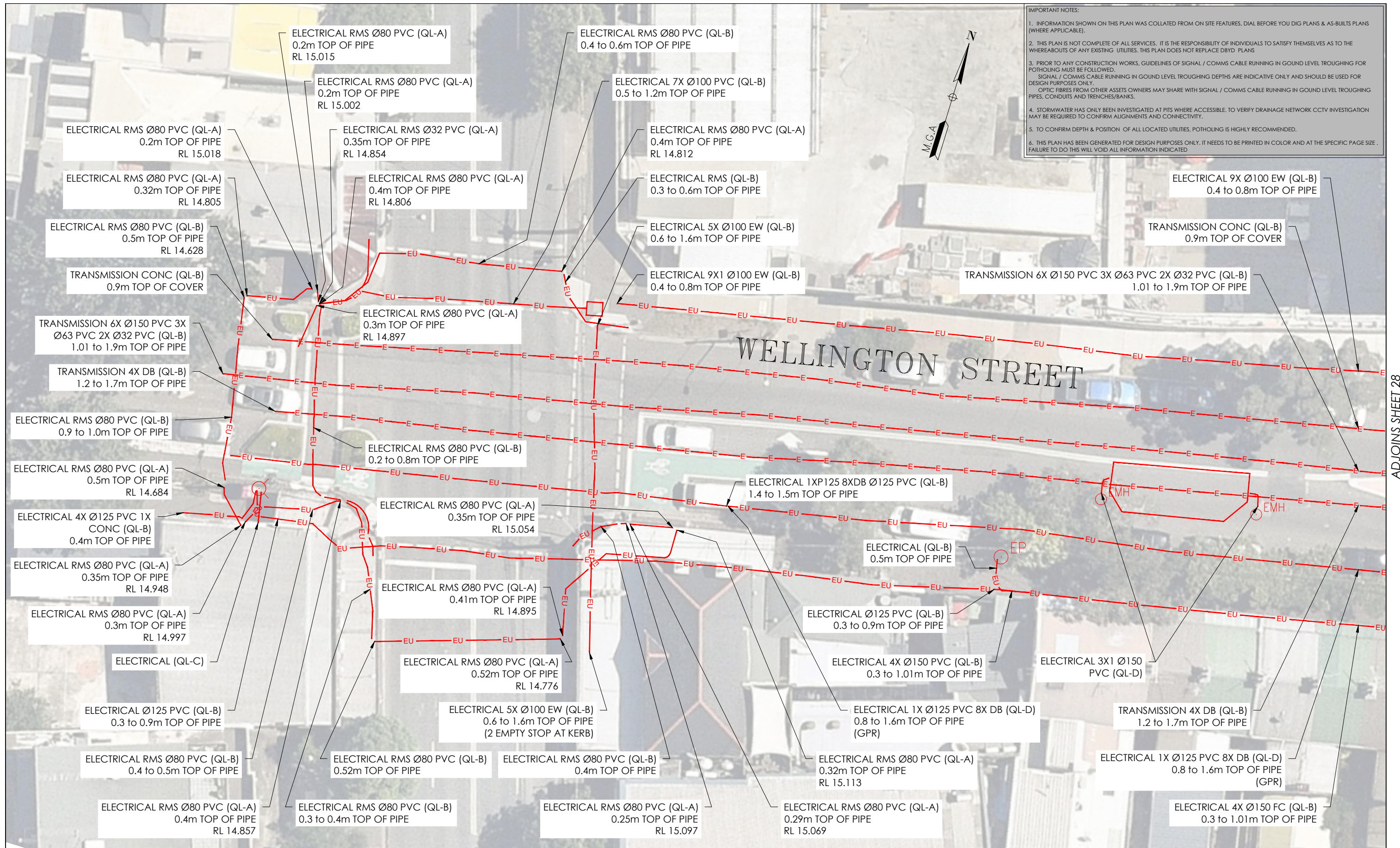
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ORIGINAL SIZE: A3 SHEET: 27 OF 75

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202254-UTILS-001A

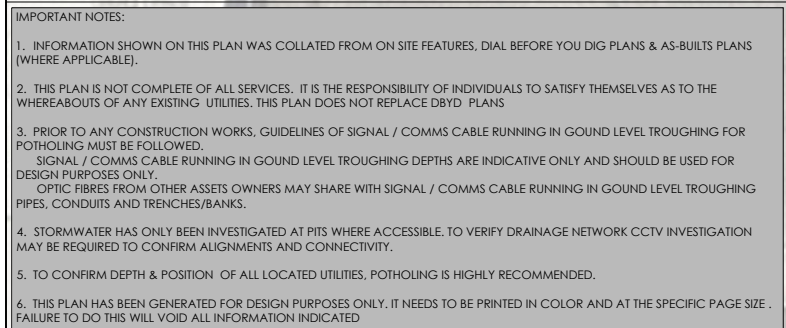


ADJOINS SHEET 29

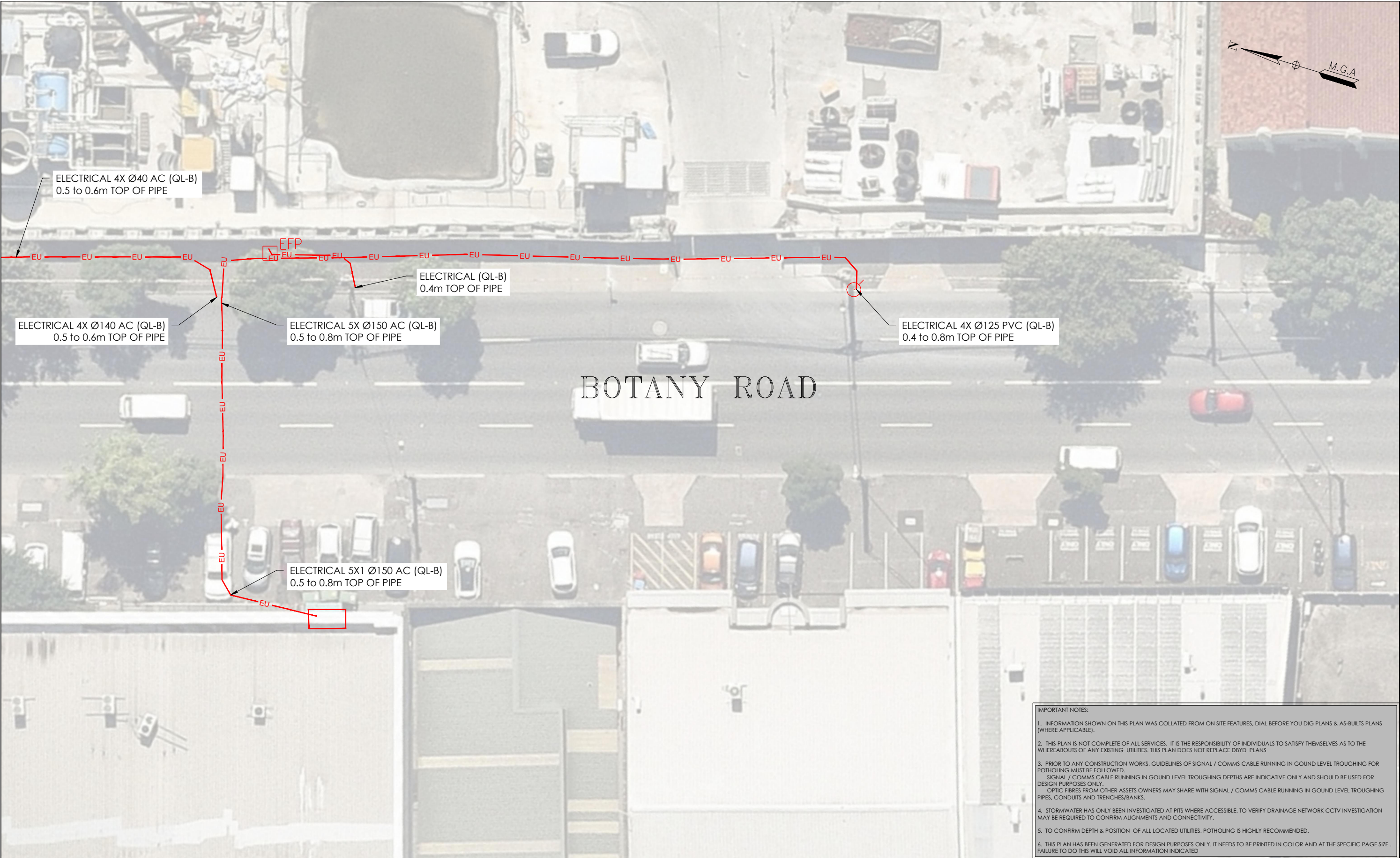
ISSUE	DATE	AMMENDMENT	BY	DISCLAIMER:	CLIENT	PROJECT TITLE	0204060810	THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS & LEGEND
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							LOCATED BY: L.B.	HEIGHT DATUM: AHD71 CO-ORD: MGA94
							SURVEYED BY: Y.M./A.D.	DBYD JOB #: 19449303/22/34 DBYD DATE: 30/04/2020
							DRAFTED BY: J.V.	ORIGINAL SIZE: A3 SHEET: 28 OF 75
							CHECKED BY: K.S./B.M./J.A.	JOB NUMBER 202254
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CLIENT

**JOHN  
HOLLAND**

PROJECT TITLE

WATERLOO STATION  
ELECTRICAL

DRAWING TITLE

SUB-SURFACE UTILITY PLAN



LOCATED BY: L.B.  
SURVEYED BY: Y.M./A.D.  
DRAFTED BY: J.V.  
CHECKED BY: K.S./B.M./J.A.  
APPROVED BY: D.M.



**THIS PLAN DOES  
NOT REPLACE  
DBYD PLANS**

JOB NUMBER  
**202254**

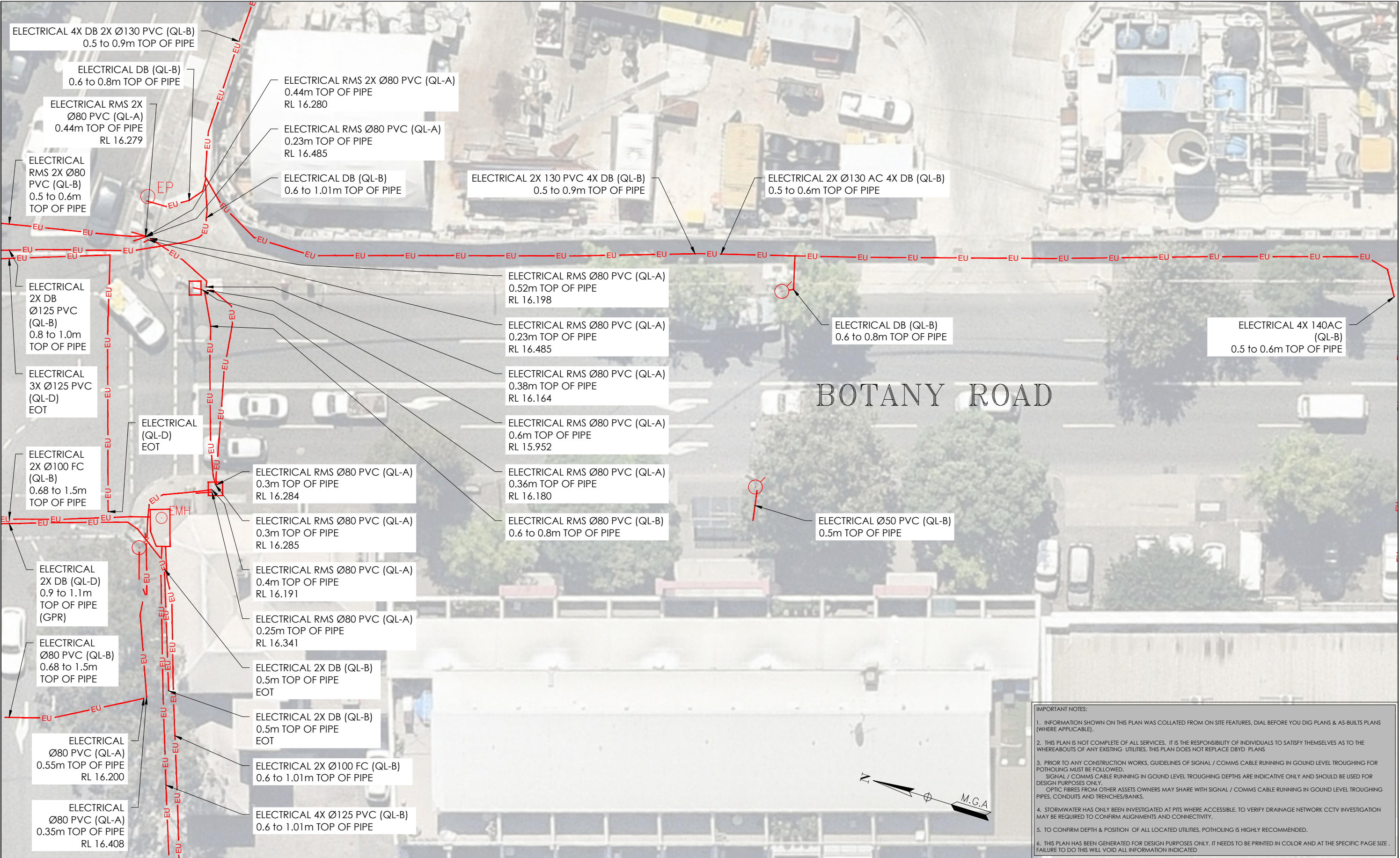
THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS & LEGEND

DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE: A3	SHEET: 31 OF 75

DRAWING NUMBER / ISSUE  
202254-UTILS-001A

ADJOINS SHEET 33

ADJOINS SHEET 31



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  3. PRIOR TO ANY CONSTRUCTION WORKS, GUIDELINES OF SIGNAL / COMMS CABLE RUNNING IN GROUND LEVEL TROUGHING FOR POTHOLING MUST BE FOLLOWED.  
SIGNAL / COMMS CABLE RUNNING IN GROUND LEVEL TROUGHING DEPTHS ARE INDICATIVE ONLY AND SHOULD BE USED FOR DESIGN PURPOSES ONLY.  
OPTIC FIBRES FROM OTHER ASSETS OWNERS MAY SHARE WITH SIGNAL / COMMS CABLE RUNNING IN GROUND LEVEL TROUGHING PIPES, CONDUITS AND TRENCHES/BANKS.
  4. STORMWATER HAS ONLY BEEN INVESTIGATED AT PITS WHERE ACCESSIBLE. TO VERIFY DRAINAGE NETWORK CCTV INVESTIGATION MAY BE REQUIRED TO CONFIRM ALIGNMENTS AND CONNECTIVITY.
  5. TO CONFIRM DEPTH & POSITION OF ALL LOCATED UTILITIES, POTHOLING IS HIGHLY RECOMMENDED.
  6. THIS PLAN HAS BEEN GENERATED FOR DESIGN PURPOSES ONLY. IT NEEDS TO BE PRINTED IN COLOR AND AT THE SPECIFIC PAGE SIZE. FAILURE TO DO THIS WILL VOID ALL INFORMATION INDICATED

ISSUE	DATE	AMMENDMENT	BY
A	03/06/20	ORIGINAL UTILITIES PLAN	J.V.

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CLIENT

**JOHN HOLLAND**

PROJECT TITLE

WATERLOO STATION  
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SURVEYED BY:	Y.M./A.D.
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CHECKED BY:	K.S./B.M./J.A.
APPROVED BY:	D.M.



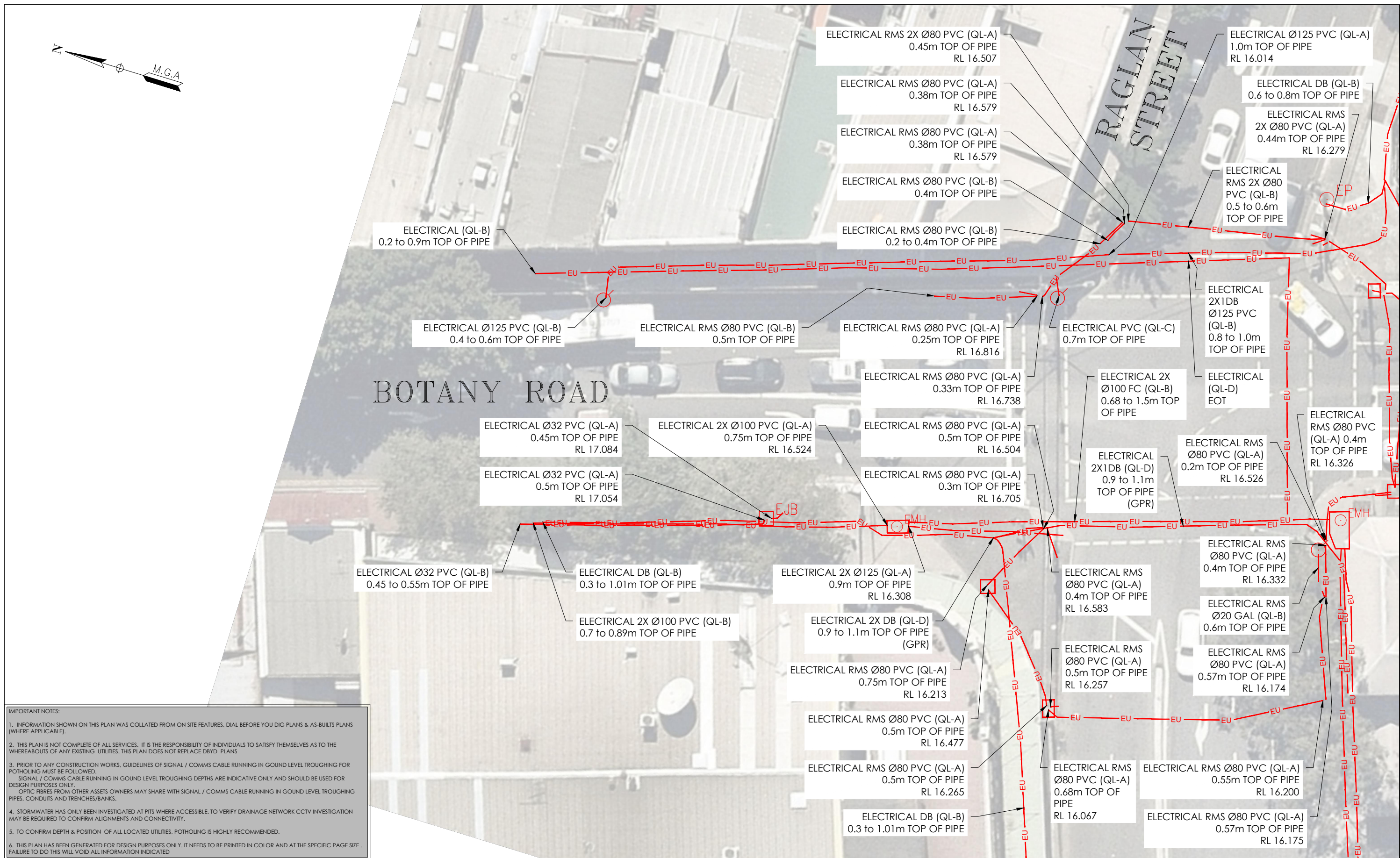
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JOB NUMBER  
202254

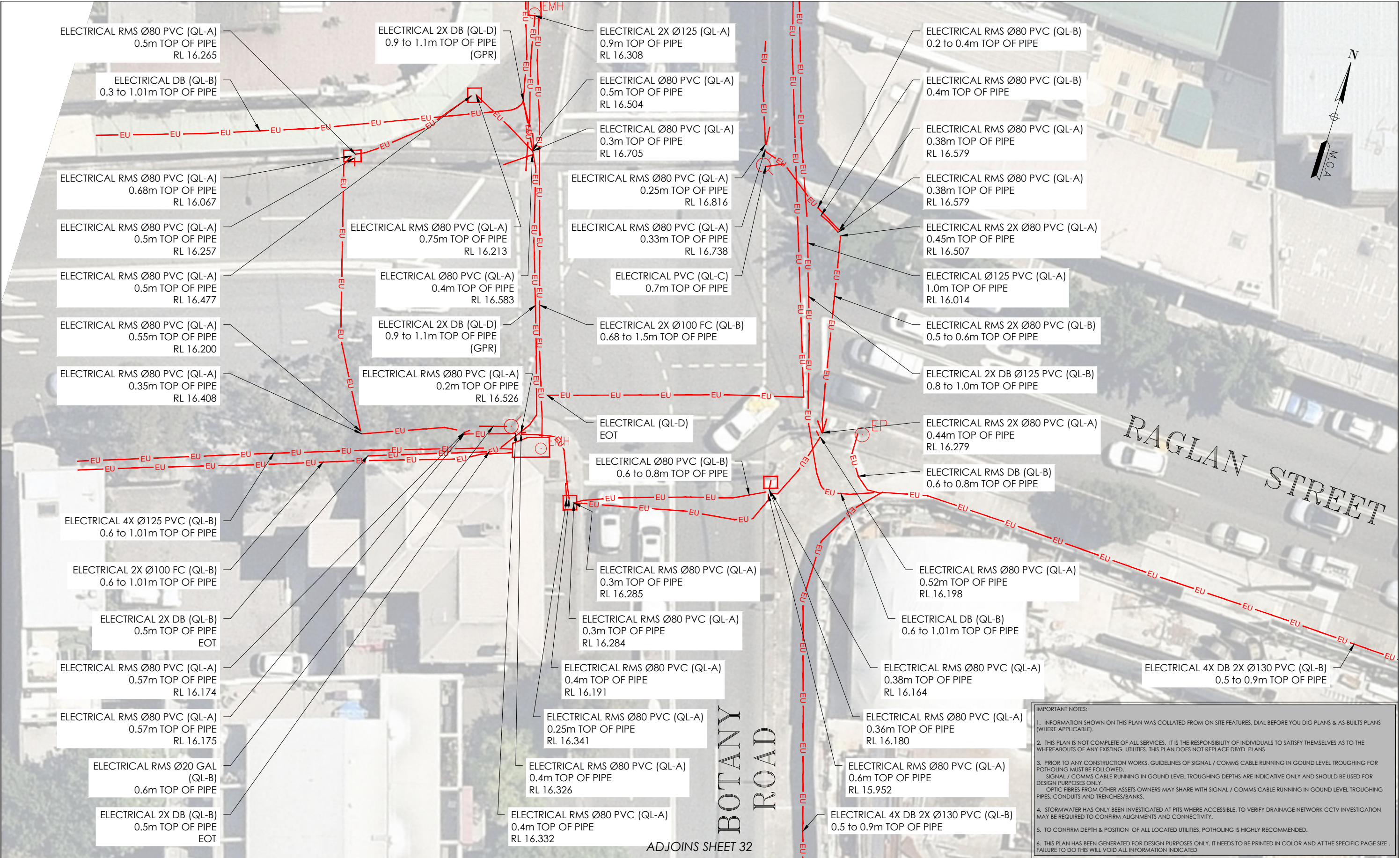
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HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
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202254-UTILS-001A

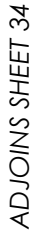


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							WATERLOO STATION						DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
							ELECTRICAL						HEIGHT DATUM: AHD71	CO-ORD: MGA94
													DBYD JOB #: 19449303/22/34	DBYD DATE: 30/04/2020
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							SUB-SURFACE UTILITY PLAN							

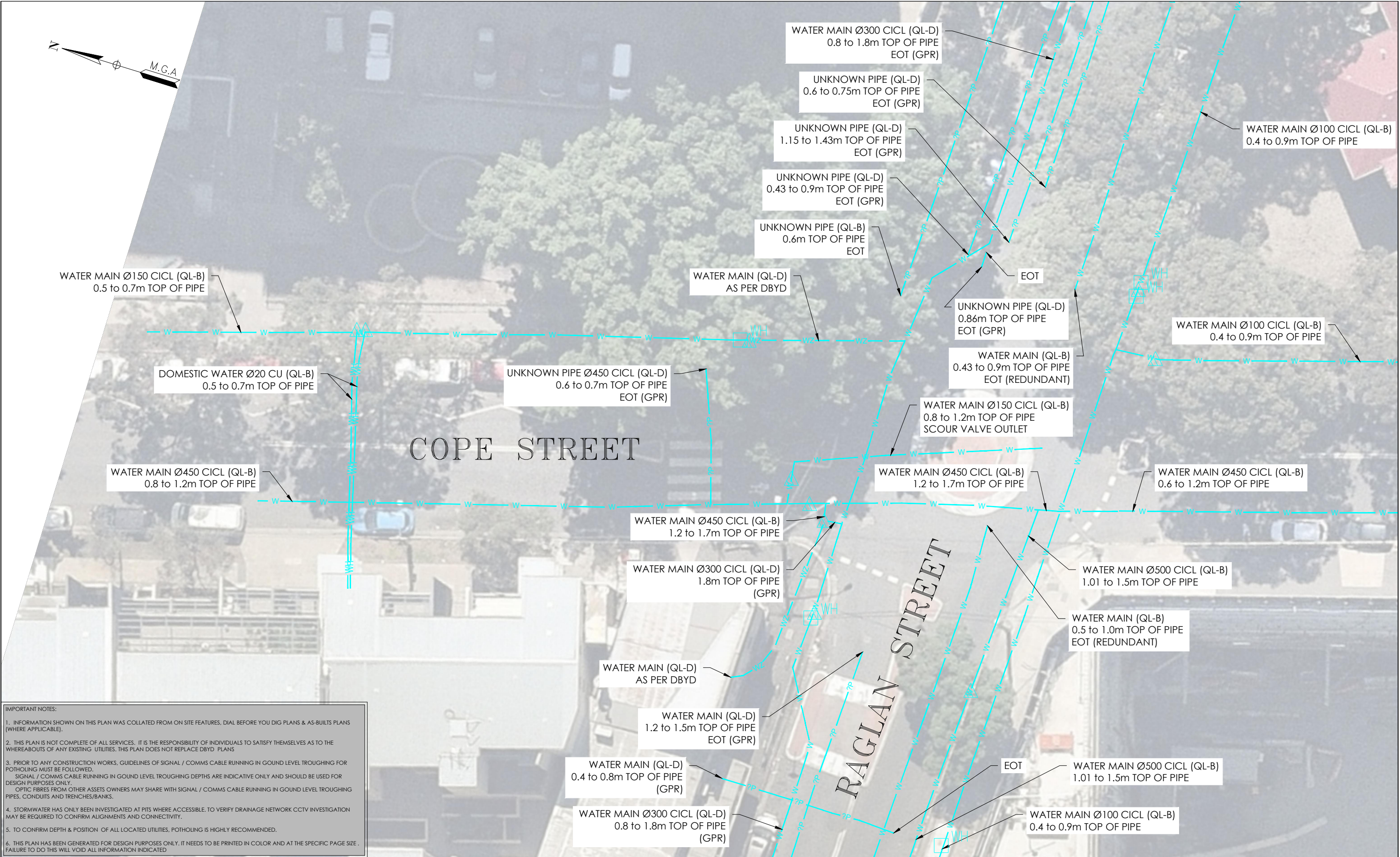


ADJOINS SHEET 35

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							ELECTRICAL			
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							SUB-SURFACE UTILITY PLAN		<div>JOB NUMBER 202254</div>	<div>DRAWING NUMBER / ISSUE 202254-UTILS-001A</div>



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