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# WATERLOO METRO QUARTER OVER STATION DEVELOPMENT

## Environmental Impact Statement
## Appendix AA – Services and Utilities Infrastructure Report

## SSD-79307746 Central Precinct

State Significant Development
Development Application

Prepared for **WL Developer Pty Ltd**

11 September 2025

| Reference | Description |
|---|---|
| Applicable SSD Applications | SSD-79307746 Central Precinct |
| Author | Edmund Sin (WSP) |
| Reviewed | Michael Middlebrook (WSP) |
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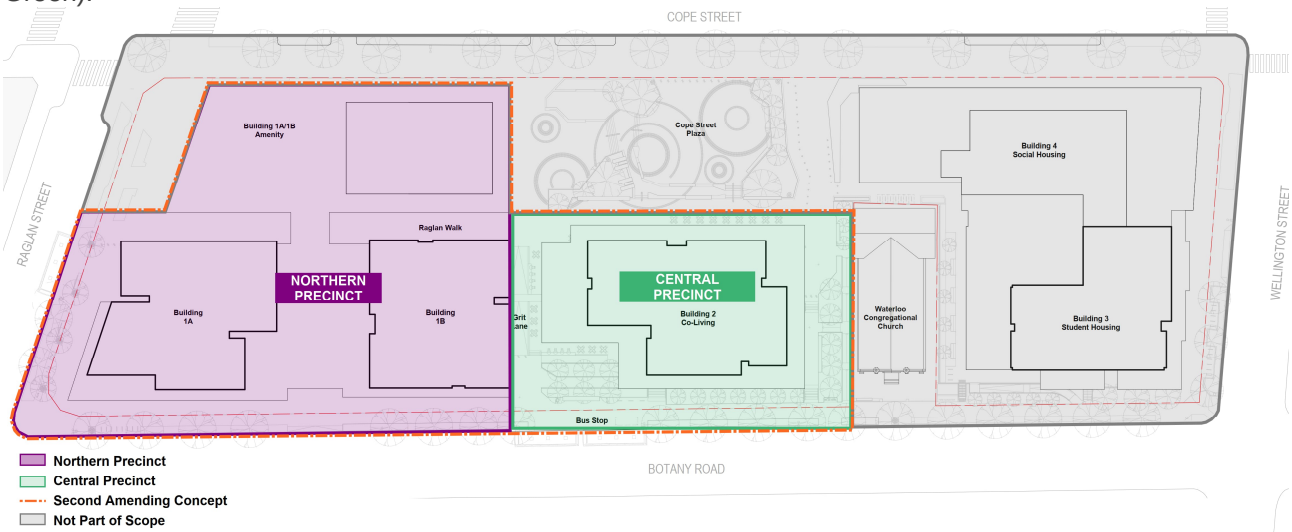
# EXECUTIVE SUMMARY

This report has been prepared by WSP Pty Ltd on behalf of WL Developer Pty Ltd (the applicant) to accompany a State Significant Development Application (SSDA) for the detailed Central Precinct SSD (SSD-79307746), located within the Waterloo Metro Quarter (WMQ) at 150 Cope Street, Waterloo. This SSD will replace the previous detailed approval applying to the Central precinct.

This report has been prepared to respond to Item 21 of the Planning Secretary's Environmental Assessment Requirements (SEARs) issued by Department of Planning, Infrastructure and Housing (DPHI) on 13 February 2025.

The figure below indicates the land to which this DA applies in relation to the overall WMQ site (shaded in Green).




This application seeks consent for the design, construction and operation of a 26 storey (including plant level) mixed use building within the Central Precinct (the site) of the WMQ estate. The proposal comprises a Co-living housing tower above a three storey podium containing retail and community facility in the form of a childcare centre. Specially, the proposal comprises:

- Ground level retail tenancies and community facility, and childcare, co-living and shared basement access lobbies
- Community centre in the form of a childcare centre at Level 1 and Level 2
- A Co-living housing tower from Levels 3 to 24 comprising:
  - Self-contained co-living accommodation rooms across 20 levels, with capacity for around 500 rooms
  - Indoor and outdoor communal amenity at Levels 3 and 24
  - Communal space also provided on each accommodation level;
- Ground level vehicular access from Church Square shared zone to the shared basement, delivery of a pedestrian thoroughfare through the site, landscaping and public domain works.
- Indicative building signage zones

This application is submitted for concurrent assessment with a DA to amend the Waterloo Metro Over Station Development (OSD) Concept DA (SSD 9393) (the Concept DA) - referred to as the Second Amending Concept DA. The Second Amending Concept DA seeks consent to modify the existing concept approval as it relates to the Northern and Central Precincts, by amending the building envelopes to redistribute floor space to suit a new mix of land uses. This Central Precinct SSD will be consistent with the Concept DA as amended.

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Separately, a Detailed SSDA for the detailed design, construction and operation of the Northern Precinct (SSD-79307758) and a Section 4.55 Modification Application to modify the approved detailed Basement SSDA (SSD 10438), will be concurrently submitted with this application.

This report has been prepared in response to the requirements contained with the Secretary's Environmental Assessment Requirements (SEARS) dated 13th February 2025. Specifically, this report has been prepared to respond to the SEARS requirements summarised below.

| Item | Description of Requirement | Section Reference (this report) |
|---|---|---|
| Item 21 | In consultation with relevant service providers:<br>assess the impacts of the development on existing utility infrastructure and service provider assets surrounding the site. | Section 3 – Infrastructure Services |
| Item 21 | identify any infrastructure required on-site and off-site to facilitate the development and any arrangements to ensure that the upgrades will be implemented on time and be maintained. | Section 3 – Infrastructure Services<br>Section 8- Mitigation Measures |
| Item 21 | provides an infrastructure delivery and staging plan, including a description of how infrastructure requirements would be co-ordinated, funded and delivered to facilitate the development. | Section 5 – Assessment Findings<br>Section 7 – Delivery Stages<br>Section 8- Mitigation Measures<br>Section 9 - Funding |

***Table 1 – SEARS Requirements***

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# 1. SERVICE DESIGN METHODOLOGY

## 1.1. INFRASTRUCTURE DESIGN

- Engage relevant utility authorities to identify and address existing capacity required to service the proposed development.
- Integrate supply requirements into the proposed utility design through consultation with relevant authorities
- Assess potential impacts of the proposed construction and operational activities on existing utility infrastructure
- Coordinate and oversee the decommissioning, removal, relocation, or protection of existing utilities in compliance with the requirements of the relevant Utility Authorities
- Establish connections to all the utility services required for the Northern Precinct developments, including:
  - 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
  - High voltage electricity connection to HV Ausgrid Network

A consolidated utilities model is developed by integrating existing utility data, proposed utility designs, and models from other engineering disciplines. This model will be utilised during the detailed design phase to support coordination and refinement of the proposed utility service designs, including clearance and cover assessments, clash detection, and constructability reviews

## 1.2. BUILDING SERVICES DESIGN

- Engage relevant design consultants to determine the utility demand and capacity requirements necessary to support the proposed development.
- Coordinate and manage the integration of utility service requirements into the development's concept design.
- Ensure all utility service designs are developed to a level that prevents any adverse impact on the Sydney Metro Station and existing utility infrastructure.

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# 2. INFRASTRUCTURE ASSESSMENT AND FINDINGS

## 2.1. SURVEY INPUT

A survey of the existing utilities within the Northern and Central Precinct project boundary has been completed. A detailed 3D utilities model has been compiled, incorporating both existing utility infrastructure and proposed supply connections to the development, including designated connection points.

The model has been developed using a combination of data sources, including electronically located survey data, potholing results, and information obtained through the Before You Dig Australia (BYDA) service.

To support accurate interpretation and coordination, the table below outlines the data quality levels assigned to each surveyed utility asset, in accordance with AS 5488-2022: Classification of Subsurface Utility Information (SUI).

Survey quality levels define the relative spatial accuracy of utility data, acknowledging limitations in service locating technologies and potential interference from subsurface features. The tolerances prescribed by AS 5488 should be considered when reviewing survey outputs. Refer to Table 2 for further details.

| Survey Level | Method | Definition |
|---|---|---|
| Quality Level A | Potholing | Location of points surveyed on subsurface features measured in terms of absolute spatial positioning with a horizontal and vertical tolerance of +/- 50 mm |
| Quality Level B | Electronic Trace | Quality level B information is compiled using electrical detection and it is only an indication of the existence of sub surface utilities. The tolerances for this quality level are:<br>+/- 500 vertical<br>+/- 300 horizontal |
| Quality Level C | Field Observations | Information is compiled from field observations and/or surface features indicating that a utility of unconfirmed attributes may reside in the proximity. It does not indicate the location of the subsurface utility with respect to the surface feature (e.g., subsurface utility line may be offset from the position of the surface feature and is not necessarily directly below it), nor its depth. |
| Quality Level D | Before You Dig Plans or GIS data | Has zero general spatial accuracy and is used to establish the potential presence of subsurface utilities within an area of interest |

***Table 2 – Classification of Subsurface Utilities***

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# 3. INFRASTRUCTURE SERVICES

## 3.1. WATER SERVICES (POTABLE COLD WATER) – SYDNEY WATER

### 3.1.1. Demand Assessment

The WMQ Central Precincts expected water use demand has been estimated to be 219.44kL/day. Water demand has been assessed in accordance with WSA 03 (Table SW2.1) and is summarised in the attached sheet. (refer to Appendix 2)

### 3.1.2. On-Site Utility Infrastructure

The existing Sydney Water network surrounding the Northern and Central Precincts consists of the potable water assets in the table below.

| Type | Size | Location |
|---|---|---|
| Water | 450mm DICL | Cope St northbound lane |
| | 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 Rd western verge |
| | 150mm CICL | Botany Rd Eastern Verge |

***Table 3 – Potable Water Assets within the Northern and Central Precinct area***

The locations of Sydney Water assets within the project area have been documented in Appendix 4, based on survey methodologies detailed in Section 2 of this report. While exact asset depths and positions remain partially unverified, several existing water mains have been identified through site activities, including potholing investigations and asset relocations undertaken as part of adjacent development works which have been conducted for the Metro Station and Building 3/4.

Further investigations will be carried out during the Detailed Design (DD) phase to confirm the suitability of the proposed potable water infrastructure and to assess any potential impacts on existing Sydney Water assets.

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### 3.1.3. Potable Water Connection

- The existing potable water network along Botany Road comprises a DN150 cast iron cement-lined (CICL) main, which is currently being amplified to a DN200 main. The proposed connection to Building 2 is located approximately 131 metres south of Raglan Street along Botany Road (Refer to Appendix 1)

The current concept design for the potable water connection route has been developed in accordance with Sydney Water requirements and maintains adequate clearance from existing utility infrastructure. A detailed connection design will be prepared by the project's Water Services Coordinator (WSC) following receipt of an updated response from Sydney Water to the Section 73 Notice of Requirements (NoR). This process will be undertaken during the Detailed Design (DD) phase, post Development Application (DA) submission.

### 3.1.4. Amplifications and/or Diversions

- Sydney Water has previously issued two Section 73 Notices of Requirements (NoRs) for the Central and Northern Precincts (Buildings 1 and 2) as part of the design progression following the submission of the Amending Concept SSDA (refer to Appendix 2). In response to the connection conditions outlined in these NoRs, the existing water main along Botany Road is currently being upsized from DN150 to DN200. Similarly, the water main along Wellington Street is also in the progress of being upsized to DN200.
- These amplification works are being delivered under Sydney Water Case Numbers 194544PW and 191252PW, with construction currently underway.
- An updated Section 73 NoR will be required to confirm whether any additional amplifications or modifications to the existing network are necessary.
- The design and construction of amplification works and potable water service connections are undertaken by designers and constructors accredited by the relevant Utility Authority. This ensures that all installed assets comply with applicable standards, including required clearances from other underground services, thereby supporting long-term maintainability and safe access for future maintenance.
- It is noted that Sydney Water reserves the right to amend the requirements outlined in the Section 73 NoR. The NoR will provide guidance on the available capacity of the existing network and identify any required amplifications or diversions to support the proposed development.

## 3.2. WATER FIRE SERVICE – SYDNEY WATER

### 3.2.1. Demand Assessment

The WMQ Northern and Central Precinct buildings expected water use demand for the fire protection system is estimated to be ~70L/s from the town main (Sydney Water Main) and a ~115kL Fire Tank (refer to Appendix 2 for detailed consultant advice note from the project WSC)

### 3.2.2. On-Site Utility Infrastructure

Refer to section 3.1.2. for Potable Water On-site Infrastructure.

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### 3.2.3. Fire Service Water Connection

- The existing potable water network along Botany Road comprises a DN150 cast iron cement-lined (CICL) main, which is currently being amplified to a DN200 main. A single DN150 connection to the existing water main on Botany Road is proposed to supply the fire protection system for both the Northern and Central Precincts.
- The proposed connection to the proposed fire service supply for the Northern and Central Precinct is located approximately 56 metres south of Raglan Street along Botany Road

The current concept design for the fire service connection route has been developed in accordance with Sydney Water requirements and maintains adequate clearance from existing utility infrastructure. A detailed connection design will be prepared by the project's Water Services Coordinator (WSC) following receipt of an updated response from Sydney Water to the Section 73 Notice of Requirements (NoR). This process will be undertaken during the Detailed Design (DD) phase, subsequent to the Development Application (DA) approval.

### 3.2.4. Amplifications and/or Diversions

Refer to Potable Water Service section 3.1.4 Amplification and/or Diversions.

## 3.3. SEWER – SYDNEY WATER

### 3.3.1. Demand Assessment

The WMQ Central Precinct's expected wastewater discharge has been estimated to be ~197.49kL/day. Sewer flows have been derived on the basis that approximately 90% of potable water consumption discharges to the sewerage system. (Refer to Appendix 2)

### 3.3.2. On-Site Utility Infrastructure

The existing Sydney Water network in the project area consists of the sewer in the table below.

| Type | Size | Location |
|---|---|---|
| Sewer | 400mm VC | Cope St under road pavement |
| | 225mm VC | Raglan St under road pavement |
| | 300mm VC | Wellington St under road pavement |
| | 225mm VC | Botany Road, under road pavement |

***Table 4 – Sewer assets within the Northern and Central Precinct area***

The locations of existing services have been documented in Appendix 4, based on information obtained from Before You Dig Australia (BYDA) plans and initial site survey investigations. While the precise depths and positions of these mains remain unconfirmed, they will be verified through potholing investigations during the Detailed Design (DD) phase to assess the suitability of the proposed design and its potential impacts on the existing network.

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### 3.3.3. Sewer Connection

- A connection to the 225 mm vitrified clay (VC) sewer main on Botany Road is proposed approximately 126 metres south of Raglan Street for building 2. (Refer to Appendix 1)

The current concept design for this connection complies with Sydney Water requirements and will maintain adequate clearance from existing utilities. A detailed connection design will be provided by the WSC following receipt of Sydney Water's response during the detailed design phase, which will commence following the Development Application (DA) approval.

### 3.3.4. Amplifications and/or Diversions

- Sydney Water has previously issued two Section 73 Notices of Requirements (NoRs)—CN 190165 and CN 190164—for the Central and Northern Precincts (Buildings 1 and 2), following the submission of the Amending Concept SSDA. These NoRs confirm that the existing sewer network has sufficient capacity to accommodate the wastewater demands associated with the amended development proposal.
- Due to an increase in projected wastewater flows, a new Section 73 NoR will need to be submitted to Sydney Water for reassessment. This updated submission will be undertaken during the next design phase to ensure the revised demands are appropriately addressed.
- It is noted that Sydney Water reserves the right to amend the requirements outlined in the Section 73 NoR. The NoR will provide guidance on the available capacity of the existing network and identify any required amplifications or diversions to support the proposed development.

## 3.4. ELECTRICAL – AUSGRID

### 3.4.1. Demand Assessment

The WMQ Northern and Central building's (Building 1 and 2) expected electrical use demand has been designed to a proposed maximum demand of 5.490 MVA/phase. Both the Northern and Central Precinct share the one chamber substation room located within the Northern Precinct. (Refer to Appendix 1)

### 3.4.2. On-Site Utility Infrastructure

The existing Ausgrid network comprises of low voltage and high voltage assets which are located underground.

**Wellington Street (Northern Side)**

- LV underground cables - direct buried and in conduit
- HV underground cables - direct buried and in conduit
- Transmission cables - direct buried and in conduit

**Botany Road (Eastern Side)**

- LV underground cables - direct buried and in conduit
- HV underground cables - direct buried and in conduit

**Raglan Street (Southern Side)**

- LV underground cables - direct buried and in conduit

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### 3.4.3. HV Electrical Connection

An offer to provide design-related services has been formally submitted to Ausgrid for the design and installation of three 1500 kVA surface-mounted chamber-type substations (refer to Appendix 3). The next stage of the process will involve the submission of the Proposed Design Scope (PDS) to Ausgrid for review and approval.

It is currently proposed that the chamber substations will be connected to Panel 34 of the Camperdown Substation. This proposed connection arrangement will be subject to confirmation during the Detailed Design (DD) phase, in consultation with Ausgrid.

### 3.4.4. Amplifications and/or Diversions

- Two Ausgrid-certified designs have been completed by WSP to facilitate the high-voltage (HV) connections for Building 1 and Building 2. These designs are as follows:
  - AN-22074 (Certified Design): Details the installation of HV and low-voltage (LV) conduits along the eastern side of the Botany Road footpath.
  - AN-22728 (Certified Design): Outlines the second stage of HV enabling works, including the installation of HV conduits across Wellington Street and the installation of two 11kV cables from the proposed HV supply point on the southern side of Wellington Street to the new substations serving Building 1 and Building 2.
- A new connection application has been submitted to Ausgrid and is currently at the design offer acceptance stage. Any additional requirements or amendments identified by Ausgrid will be addressed by WSP's Accredited Service Provider (ASP) Level 3 designer during the next design phase.
- All electrical enabling works are designed and constructed by Utility Authority-accredited designers and contractors. This ensures compliance with relevant standards, including required clearances from other subsurface assets, thereby supporting long-term maintainability and safe access for future maintenance activities.

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# 4. COMMUNICATION AND DATA

## 4.1.1. Demand Assessment

The expected communication requirements for the Central Precinct (building 2) will be further designed and coordinated during the detailed design phase. At this stage, 6xP100 communications conduits have been allowed for and there is an assumption of at least two communications carriers to supply building 1 and building 2 via a shared communications room located within basement 1 of the Northern precinct.

## 4.1.2. On-Site Utility Infrastructure

The WMQ Central precinct site has access to following communication providers:

- NBN
- Nextgen, NCC
- PIPE Networks
- Verizon Business
- Vocus Fibre Pty Ltd
- Telstra
- Optus

Existing Telstra assets are located along the eastern side of Botany Road, fronting Building 1 and Building 2. At the intersection of Botany Road and Raglan Street, a Telstra pillar is positioned adjacent to an existing Telstra manhole. This location provides access to the copper network, and fibre optic services are also available from this location.

Telstra infrastructure, including pillars and exchanges, is situated outside the development boundary, and impacts to these assets are considered unlikely.

The National Broadband Network (NBN) is currently housed within existing Telstra conduits along the eastern side of Botany Road. New telecommunications services required for Building 1 and Building 2 may utilise these existing conduits, subject to confirmation by Telstra and NBN.

Current asset location data is based on a combination of *Before You Dig Australia (BYDA)* records and electronic service locating surveys. Exact positions and depths will be verified during the next design phase through targeted site investigations. Following completion of these investigations, a review will be undertaken to determine the feasibility of utilising the existing Telstra network for the proposed development.

## 4.1.3. Connection

The current design proposes a single lead-in connection to a shared data room serving both the Northern and Central Precinct developments. At this stage, provision has been made for six (6) P100 communications lead-in conduits into the data room.

The selection and confirmation of telecommunications service providers will be undertaken during the Detailed Design (DD) phase, in coordination with relevant stakeholders.

## 4.1.4. Amplifications and/or Diversions

Requirements for amplifications and/or diversions will be confirmed as part of the engagement with the communications providers during the detailed design phase.

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# 5. STORMWATER

For details regarding stormwater infrastructure refer to the Integrated Water Management Report Appendix A (WMQ-BD2-RBG-CV-RPT-001)

# 6. ASSESSMENT FINDINGS

## 6.1. TECHNICAL ASSESSMENT

The technical assessment of the utility infrastructure requirements for WMQ Central (building 2), has determined that all connections to services will be made along Botany Road, as outlined in Appendix 1.

## 6.2. CUMULATIVE IMPACTS – CENTRAL PRECINCT

The Second Amending Concept SSDA to the Amending Concept SSDA reconfigures the Waterloo Metro Quarter (WMQ) Central Precinct into a co-living tower from a residential apartment tower. This revised concept has resulted in increased electrical, potable water and wastewater demands compared to the previous detailed proposal on the site.

The electrical demand is attributed to the higher consumption associated with co-living development relative to residential development. During the Ausgrid Contestable Works process, Ausgrid will assess whether additional amplification or modification works are required to accommodate the increased electrical loads.

Similarly, the potable water and wastewater demand has risen due to the co-living component. Although Notice of Requirements (NoRs) have previously been issued by Sydney Water, a revised submission will be necessary to reflect the updated demand requirements. Any additional infrastructure upgrades or modifications will be confirmed by Sydney Water during the next design phase.

Utility assets currently designed and installed in the vicinity of the Northern and Central Precincts have been coordinated using available existing utility data and proposed design elements. However, further coordination will be undertaken in the next design phase to ensure alignment with updated development design requirements. Through ongoing consultation with utility authorities, the scope of any additional works required to service the Northern and Central Precincts will be confirmed in the next design stage also.

## 6.3. COORDINATION

Coordination of the proposed new infrastructure works required to facilitate the development will be based off the Streets Opening Conference guidelines and Utility Authority Specific Standards.

An existing and proposed Utility Model is used to coordinate the design of utility supplies into building 1 and building 2. A Utility model is also used to review/coordinate any amplification/modifications works required as part of the service connection design process. Within the utility model, reviews are also completed against all proposed building and streetscape elements to ensure potential clashes are raised early in the detailed design phase. Specific utility authority Infrastructure requirements which will be used to develop utility design alignments and solutions are listed below:

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### 6.3.1. Water Service Coordination

In Section 5.12.5.2 of the Water Services Association of Australia codes (WSA 03-2011-3.1, Sydney Water Edition – 2012), the required minimum clearances between water mains and other services are specified and must be strictly adhered to.

### 6.3.2. Wastewater Services Coordination

In Section 5.12.5.2 of the Water Services Association of Australia codes (WSA 02-2002-2.2, Sydney Water Edition – Version 3), the required minimum clearances between sewer assets and other services are specified and must be strictly adhered to.

### 6.3.3. Electrical Services Coordination

The 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

In the NS130, clearance between proposed inground Ausgrid assets are documented and must be incorporated into the design to ensure compliance with Asset Authority standards.

### 6.3.4. Data and Communication Services Coordination

In the Section 5.2.13 of "New Development: Deployment of the NBN Co Conduit and Pit Network – Guidelines for Developers", clearances to other inground utilities are documented and must be incorporated into the design to ensure compliance with Asset Authority standards.

# 7. DELIVERY STAGES

**Stage 1**

- Construction is currently underway on certified Ausgrid and Sydney Water enabling/amplification design packages, which have been developed to provide the necessary utility capacity upgrades to support the operational demands of Building 1 and Building 2.
- During the commencement of the detailed design phase post SSDA approval, service supply applications and designs will commence, be coordinated and completed during this phase. Any additional modification or amplification works which are required will also be designed during this phase.

**Stage 2**

- Construction of any additional amplifications or utility modification works to be completed, including the installation of electrical HV feeders and upsizing of water mains.

**Stage 3**

- Utility service connections to be constructed, including the installation of chamber station equipment, fire service equipment and water metering equipment.

**Stage 4**

- Commissioning of all services
  - Commission of the substation is generally completed in two stages, first stage being, the electrification of the substation and the second being, energisation of the development (private) installation.

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- Once testing and commissioning has been completed, asset specific handover documentation must be submitted to each utility authority for review and approval.

# 8. MITIGATION MEASURES

To establish the utility modifications required for the WMQ Central Precinct building, the following mitigation measures will need to be pursued:

- Disconnection and decommissioning of existing utilities/services within the proposed construction boundaries of the proposed WMQ precinct buildings, to allow for construction.
- Proceed with Sydney Water Notice of Requirements (NoR) applications for the Central precinct, and associated conditions of consent for the connection of Potable Water and Sewer.
- Proceed with Ausgrid Contestable works approval process for Central Precinct building, and associated submissions and approvals for the connection of high voltage power and construction of the substation.
- Proceed with NBN and selected Telecommunications providers applications for communication connections for the Central precinct building. Also address any associated utility authority conditions required for the connection of communications services.
- During the detailed design development phase, space-proof the proposed service connections and associated modifications to ensure designs are coordinated and clash free.

# 9. FUNDING

Infrastructure requirements, to the extent described within this report, shall be funded by the Developer.

# 10. CONCLUSION

## 10.1. UTILITY PROVISIONS

All Utility Authorities with assets located within the area of proposed works will be formally notified of any potential adjustments or impacts to their infrastructure. Each authority has its own application process and technical guidelines for reviewing asset impacts, proposed utility treatments, and service connection designs.

As part of this process, the relevant Utility Authority will issue design conditions and feedback, which must be addressed and approved prior to proceeding with any utility service connections or treatments. This ensures that all proposed works are compliant with authority standards and that existing infrastructure is protected and appropriately integrated.

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## 10.2. ASSUMPTIONS AND CONSTRAINTS

The following assumptions and constraints have been considered during utility assessment and review.

- Communications Infrastructure: It is currently assumed that six (6) P100 conduits will be provided to service a shared communications room for both the Northern and Central precincts. These conduits will connect to the existing Telstra/NBN network on Botany Road via a newly installed P8 pit positioned above the existing Telecommunications (Telstra/NBN) infrastructure.
- Electrical Supply: The ASP3 electrical design for the chamber substation will be progressed in the next design phase. It is assumed that the existing Ausgrid design package (AN-22728) remains valid and current.
- Potable Water Supply: Amplification works for potable water, currently being delivered under Sydney Water case number's CN 191252PW and CN 194544PW, are considered sufficient to meet the increased demand for the Northern and Central Precincts.
- Wastewater Services: It is assumed that no additional amplification works are required for the proposed sewer connections, based on the Section 73 approvals received from Sydney Water (CN 190164 and CN 190165). However, this will be subject to confirmation by Sydney Water during the next design phase.

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# Appendix 1 – Proposed Utility Services Plan

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# WATERLOO INTEGRATED STATION DEVELOPMENT

## WATERLOO METRO QUARTER OSD

## PROPOSED UTILITY SERVICES

LOCALITY PLAN
NOT TO SCALE

### DRAWING INDEX

#### UTILITIES

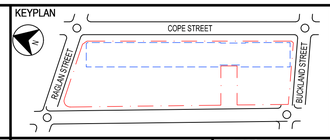

| | |
|---|---|
| WMQ-SITE-WSP-UT-DWG-U8900 | COVER SHEET AND DRAWING INDEX |
| WMQ-SITE-WSP-UT-DWG-U8901 | GENERAL NOTES AND LEGEND |
| WMQ-SITE-WSP-UT-DWG-U8971 | UTILITIES GENERAL ARRANGEMENT PLAN SHEET 1 |
| WMQ-SITE-WSP-UT-DWG-U8972 | UTILITIES GENERAL ARRANGEMENT PLAN SHEET 2 |


FOR REVIEW

| REV. | BY | DATE | DESCRIPTION | APPD. |
|---|---|---|---|---|
| A | C.Z. | 03.07.20 | ISSUED FOR DEVELOPMENT APPLICATION | J.P. |

SCALES

KEYPLAN

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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 |

WATERLOO ISD
WATERLOO METRO QUARTER OSD
PROPOSED UTILITY SERVICES
COVER SHEET AND DRAWING INDEX

STATUS: FOR REVIEW | SHEET 1 OF 1 | ©

DRG No. WMQ-SITE-WSP-UT-DWG-U8900 | REV. A

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.]

100mm AT FULL SIZE Plot Date: 03/07/20 - 15:55 Cad File: U:\Projects\AU\PS\117xxx\PS117919_Waterloo_Station\4_WIP\BIM\UT\WMQ Package\WMQ-SITE-WSP-UT-DWG-U8900.dwg

# 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:

1. 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.
2. LOCATION AND LEVEL OF ALL EXISTING SERVICES CROSSING PROPOSED DRAINAGE MUST BE CONFIRMED PRIOR TO CONSTRUCTION.
3. UTILITY DRAWINGS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH THE UTILITY SERVICES STRATEGY REPORT.
4. ABANDONED UTILITIES DUE TO SERVICE RELOCATION ARE ASSUMED TO BE GROUT FILLED AND NOT COMPLETELY REMOVED BY THE UTILITY INSTALLATION CONTRACTOR.
5. EACH DRAWING IN THE UTILITY SET SHOULD NOT BE READ IN ISOLATION FROM THE OTHER SERVICE DRAWINGS IN THE SET.
6. 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

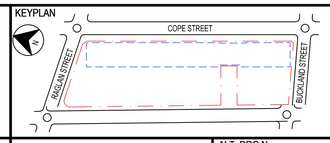
1. PITS WITHIN PAVED AREA TO BE INSTALLED WITH INFILLED LIDS AS PER LANDSCAPE ARCHITECT DETAILS.

FOR REVIEW

| REV. | BY | DATE | DESCRIPTION | APPD. |
|---|---|---|---|---|
| A | C.Z. | 03.07.20 | ISSUED FOR DEVELOPMENT APPLICATION | J.P. |

SCALES

KEYPLAN

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JOHN HOLLAND

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| DRG CHECK | C. BIDART | 03.07.20 |
| DESIGN CHECK | R. JIANG | 03.07.20 |
| APPROVED | J. PICKERING | 03.07.20 |

# WATERLOO ISD

WATERLOO METRO QUARTER OSD
PROPOSED UTILITY SERVICES
GENERAL NOTES AND LEGEND

STATUS: FOR REVIEW | SHEET 1 OF 1 | ©

DRG No WMQ-SITE-WSP-UT-DWG-U8901 | REV. A

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.]

Cad File: U:\Projects\AU\PS\117xxx\PS117919_Waterloo_Station\4_WIP\BIM\UT\WMQ Package\WMQ-SITE-WSP-UT-DWG-U8901.dwg
Plot Date: 03/07/20 - 15:56
100mm AT FULL SIZE

NOT PART OF THIS SUBMISSION REFER TO WATERLOO STATION PACKAGE

NORTHERN PRECINCT (BUILDING 1)

CENTRAL PRECINCT (BUILDING 2)

RAGLAN STREET

BUILDING 1 SYDNEY WATER METER BREAK UP -

- BUILDING 1A
- BUILDING 1B
- Affordable Housing
- B1 Commercial
- B1 retail

BUILDING 1 WATER CONNECTION TO CONNECT INTO THE AMPLIFIED SYDNEY WATER MAIN

EXISTING DN150 CICL TO BE AMPLIFIED TO DN200

BUILDING 1 225mm SEWER CONNECTION TO CONNECT INTO THE 225VC SYDNEY WATER MAIN

PROPOSED 6XP100 COMMUNICATIONS CONDUITS SUPPLY TO SHARED COMMUNICATIONS ROAD FOR BUILDING 1 AND 2 VIA BASEMENT. SERVICE PROVIDER TBC

PROPOSED 2 x 11kv CABLES IN 2 x 150MM CONDUITS WITH 4 SPARE 150MM AND 1 SPARE 63MM CONDUITS - REFER TO ASP3 DESIGN FOR DETAILS

PROPOSED CHAMBER SUB

BUILDING 2 SYDNEY WATER METER BREAK UP -

- BUILDING 2 Co-living
- BUILDING 2 retail

BUILDING 2 225mm SEWER CONNECTION TO CONNECT INTO THE 225VC SYDNEY WATER MAIN

ADJOINS SHEET - UT-U8972

BUILDING 2 WATER CONNECTION TO CONNECT INTO THE AMPLIFIED SYDNEY WATER MAIN

EXISTING JEMENA GAS 110MM NYLON

EXISTING SYDNEY WATER SEWER MAIN 225 VC

EXISTING SYDNEY WATER POTABLE WATER MAIN DN150CICL - CURRENTLY BEING AMPLIFIED TO DN200

EXISTING TELSTRA CONDUIT 1XP100

HENDERSON ROAD

BOTANY ROAD

BUILDING 1 AND BUILDING 2 FIRE SERVICE WATER CONNECTION TO CONNECT INTO THE AMPLIFIED SYDNEY WATER MAIN

NOTES:

1. ALL DIMENSIONS ARE SHOWN IN METRES UNO.
2. FOR GENERAL NOTES AND FULL UTILITY LEGEND REFER TO WMQ-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.

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| REV. | BY | DATE | DESCRIPTION | APPD. |
|---|---|---|---|---|
| C | E.S | 13.08.2025 | FOR REVIEW - WORK IN PROGRESS | |
| B | J.C. | 27.07.20 | ISSUED FOR DEVELOPMENT APPLICATION | J.P. |
| A | C.Z. | 03.07.20 | ISSUED FOR DEVELOPMENT APPLICATION | J.P. |

WORK IN PROGRESS

SCALES
NOT TO SCALE

KEYPLAN

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JOHN HOLLAND

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| DRG CHECK | C. BIDART | 03.07.20 |
| DESIGN CHECK | R. JIANG | 03.07.20 |
| APPROVED | J. PICKERING | 03.07.20 |

# WATERLOO ISD

WATERLOO METRO QUARTER OSD
PROPOSED UTILITY SERVICES
GENERAL ARRANGEMENT PLAN

STATUS: FOR REVIEW | SHEET 1 OF 2 | ©

DRG No. WMQ-SITE-WSP-UT-DWG-U8971 | REV. C

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.]

Cad File: C:\Users\AUES506496\Desktop\Waterloo Station\18.0 Utility Reports\WMQ Package Drawings\WMQ-SITE-WSP-UT-DWG-U8971 wip revo01.dwg
Plot Date: 13/08/25 - 17:30
100mm AT FULL SIZE

NOT PART OF THIS SUBMISSION REFER TO WATERLOO STATION PACKAGE

SOUTHERN PRECINCT (BUILDING 3)
NOT PART OF SUBMISSION

WELLINGTON STREET

BUILDING 2 SYDNEY WATER METER BREAK UP -

- BUILDING 2 Co-living
- BUILDING 2 retail

BUILDING 2 WATER CONNECTION TO CONNECT INTO THE AMPLIFIED SYDNEY WATER MAIN

EXISTING DN150 CICL TO BE AMPLIFIED TO DN200

PROPOSED 2 x 11kv CABLES IN 2 x 150MM CONDUITS WITH 4 SPARE 150MM AND 1 SPARE 63MM CONDUITS - REFER TO ASP3 DESIGN FOR DETAILS

EXISTING SYDNEY WATER POTABLE WATER MAIN DN150CICL - CURRENTLY BEING AMPLIFIED TO DN200

EXISTING JEMENA GAS 110MM NYLON

EXISTING SYDNEY WATER SEWER MAIN 225 VC

ADJOINS SHEET - UT-U8971

BOTANY ROAD

WARNING UNDERGROUND TRANSMISSION CABLES PRESENT FOR WORK NEAR TRANSMISSION CABLES IT IS COMPULSORY TO ARRANGE FOR AN AUSGRID REPRESENTATIVE TO ATTEND THE WORKSITE. CONTRACT WITH AUSGRID MUST BE MADE AT LEAST TWO WEEKS BEFORE WORK COMMENCES ON THE SITE. PHONE THE AUSGRID TRANSMISSION ENQUIRIES ON (02) 4951 9200 TO ARRANGE FOR AN AUSGRID REPRESENTATIVE IN YOUR REGION. THIS TO ENSURE THE WORK IS UNDERTAKEN SAFETY 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

NOTES:

1. ALL DIMENSIONS ARE SHOWN IN METRES UNO.
2. FOR GENERAL NOTES AND FULL UTILITY LEGEND REFER TO WMQ-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.

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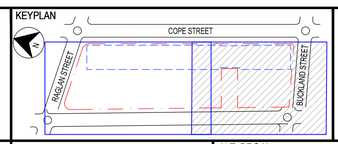
| REV. | BY | DATE | DESCRIPTION | APPD. |
|---|---|---|---|---|
| C | E.S | 13.08.2025 | FOR REVIEW - WORK IN PROGRESS | |
| B | J.C. | 27.07.20 | ISSUED FOR DEVELOPMENT APPLICATION | J.P. |
| A | C.Z. | 03.07.20 | ISSUED FOR DEVELOPMENT APPLICATION | J.P. |

WORK IN PROGRESS

SCALES
NOT TO SCALE

KEYPLAN
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| DRG CHECK | C. BIDART | 03.07.20 |
| DESIGN CHECK | R. JIANG | 03.07.20 |
| APPROVED | J. PICKERING | 03.07.20 |

# WATERLOO ISD

WATERLOO METRO QUARTER OSD
PROPOSED UTILITY SERVICES
GENERAL ARRANGEMENT PLAN

STATUS: FOR REVIEW | SHEET 2 OF 2 | ©

DRG No WMQ-SITE-WSP-UT-DWG-U8972 | REV. C

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.]

Cad File: C:\Users\AUES506496\Desktop\Waterloo Station\18.0 Utility Reports\WMQ Package Drawings\WMQ-SITE-WSP-UT-DWG-U8972 wip Rev01.dwg
Plot Date: 13/08/25 - 16:45
100mm AT FULL SIZE

# Appendix 2 – Sydney Water Notice of Requirements

© WL Developer Pty Ltd

# Hydraulic Assessment Building 1

| **Hydraulic Assessment for each type of use, ie; Commercial, Retail, Residential for Water Demand and Sewer Discharge** | |
|---|---|
| **Water** | |
| Maximum demand (kL/day) | 303.04 kL/Day |
| Average Demand (kL/day) | 158.28 kL/Day |
| Peak Demand (L/s) | 7.01 L/Sec |
| **Recycled Water** | |
| Maximum demand (kL/day) | N/A |
| Average Demand (kL/day) | N/A |
| Peak Demand (L/s) | N/A |
| **Waste-Water** | |
| Maximum demand (kL/day) | 272.73 kL/Day |
| Average Demand (kL/day) | 149.45 kL/Day |
| Peak Demand (L/s) | 6.30 L/Sec |
| **Air Conditioning Make-Up Water (L/sec)** | |
| Air Conditioning Make-Up Water (L/sec) | 0.36 L/Sec |

| **Proposed Connections** | |
|---|---|
| Water | Hydraulic:<br>1x Botany Road (North), 150mm DICL<br><br>N - 6247817919<br>E - 333512998 |
| Sewer | 1x Botany Road |

# Hydraulic Assessment Building 2

| Hydraulic Assessment for each type of use, ie; Commercial, Retail, Residential for Water Demand and Sewer Discharge | |
|---|---|
| **Water** | |
| Maximum demand (kL/day) | 417.82 kL/Day |
| Average Demand (kL/day) | 219.44 kL/Day |
| Peak Demand (L/s) | 9.67 L/Sec |
| **Recycled Water** | |
| Maximum demand (kL/day) | N/A |
| Average Demand (kL/day) | N/A |
| Peak Demand (L/s) | N/A |
| **Waste-Water** | |
| Maximum demand (kL/day) | 376.03 |
| Average Demand (kL/day) | 197.49 |
| Peak Demand (L/s) | 10.74 L/Sec |
| **Air Conditioning Make-Up Water (L/sec)** | |
| Proposed meter sizer (mm) | 0.66 L/Sec |

| **Proposed Connections** | |
|---|---|
| Water | Hydraulic:<br><br>1x Botany Road (South), 150mm DICL<br><br>N - 6247699893<br>E - 333553051 |
| Sewer | 1x Botany Road |

**WATERLOO METERO QUARTER WATER DEMAND CALCULATIONS**

WSA 03 - TABLE SW2.1

Formula:

Max Day Demand (kL/day) - Qantity x Rate

Average Day Demand (kL/day) - Maximum Day ÷ (Maximum Day ÷ Average Day ratio)

Max Hour Demand (L/sec) - Maximum Day × (Maximum Hour ÷ Maximum Day ratio) × 1000 ÷ 86,400

| **Building 1** | |
|---|---|
| **Residential (321 dwellings)** | |
| Maximum Day: 0.8 × 321 = | 256.8 kL/Day |
| Average Day: 256.8 ÷ 1.9 = | 135.16 kL/Day |
| Peak Demand: 256.8 × 2.0 × 1000 ÷ 86,400 = | 5.94 L/Sec |

| **Commercial (office)** | |
|---|---|
| Maximum Day: 0.5505 × 63 = | 34.68 kL/Day |
| Average Day: 34.6815 ÷ 2.0 = | 17.34 kL/Day |
| Peak Demand: 34.6815 × 2.0 × 1000 ÷ 86,400 = | 0.80 L/Sec |

| **Retail (conservative)** | |
|---|---|
| Maximum Day: 0.1835 × 63 = | 11.56 kL/Day |
| Average Day: 11.5605 ÷ 2.0 = | 5.78 kL/Day |
| Peak Demand: 11.5605 × 2.0 × 1000 ÷ 86,400 = | 0.27 L/Sec |

| **Totals (sum across uses)** | |
|---|---|
| Total Maximum Day: | 303.04 kL/Day |
| Total Average Day: | 158.28 kL/Day |
| Peak Demand: | 7.01 L/Sec |

Note: The combination of all uses increases the peak simultaneous demand. WSce proposes to size all water pipework in accordance with DIN 1988-300 (simultaneous demand method).

Allow 90% of the incoming water supply to discrge to the sewer system

| **Building 2** | |
|---|---|
| **Residential (Student Accomodation)** | |
| Maximum Day: 0.8 × 500 = | 400 kL/Day |
| Average Day: 400.00 ÷ 1.9 = | 210.53 kL/Day |
| Peak Demand: 400.00 × 2.0× 1000 ÷ 86,400 = | 9.26 L/Sec |

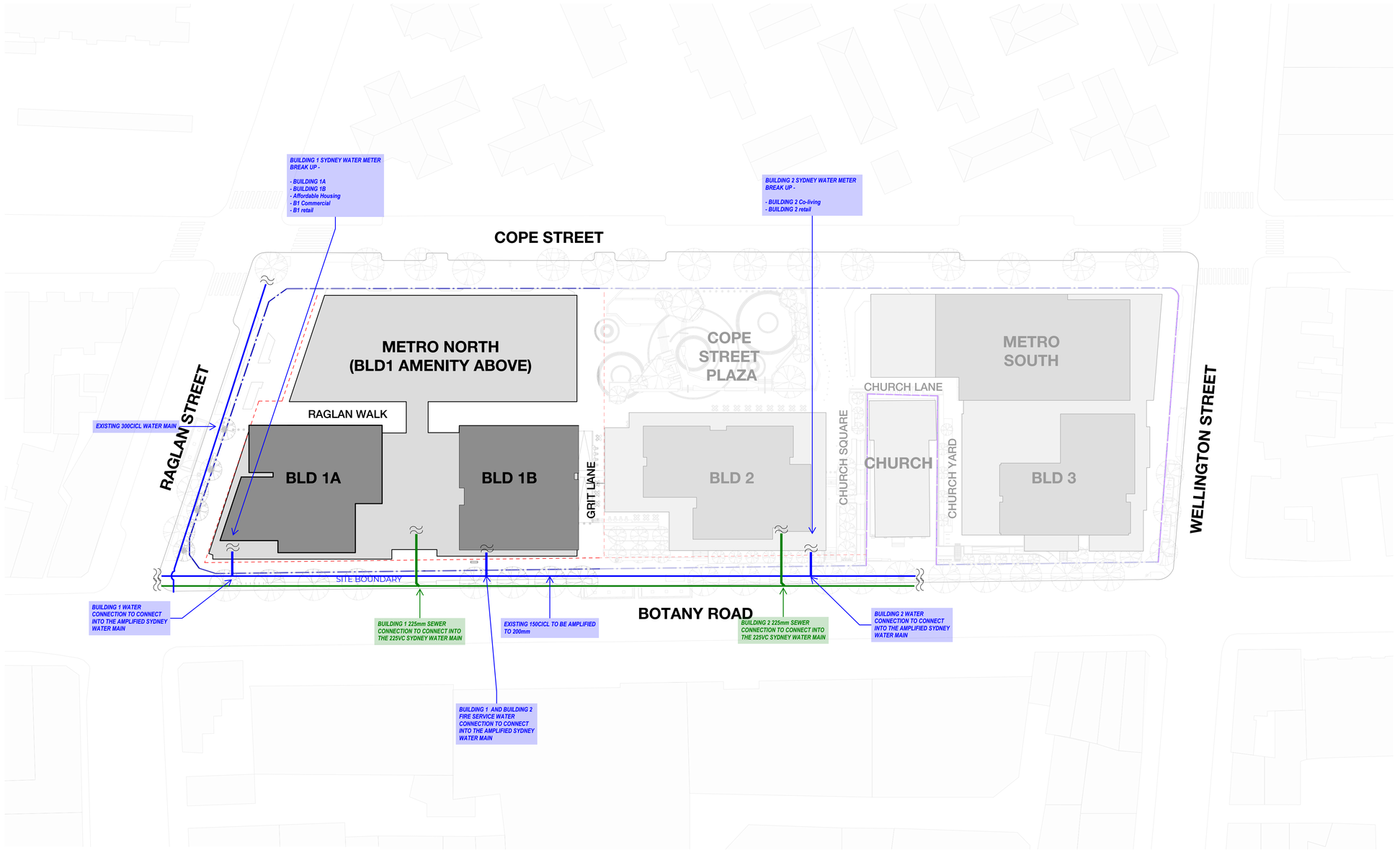
| **Commercial (Childcare)** | |
|---|---|
| Maximum Day: 0.1668 × 63 = | 10.51 kL/Day |
| Average Day: 10.51 ÷ 2.0 = | 5.25 kL/Day |
| Peak Demand: 10.51 × 2.0 × 1000 ÷ 86,400 = | 0.24 L/Sec |

| **Retail (conservative)** | |
|---|---|
| Maximum Day: 0.1161 × 63 = | 7.31 kL/Day |
| Average Day: 7.31 ÷ 2.0 = | 3.66 kL/Day |
| Peak Demand: 7.31 × 2.0 × 1000 ÷ 86,400 = | 0.17 L/Sec |

| **Totals (sum across uses)** | |
|---|---|
| Total Maximum Day: | 417.82 kL/Day |
| Total Average Day: | 219.44 kL/Day |
| Peak Demand: | 9.67 L/Sec |

Note: The combination of all uses increases the peak simultaneous demand. WSce proposes to size all water pipework in accordance with DIN 1988-300 (simultaneous demand method).

Allow 90% of the incoming water supply to discrge to the sewer system




Project Name: ***WATERLOO METRO QUARTER***

Title: ***HYDRAULIC SERVICES SYDNEY WATER CONNECTIONS***

| | | |
|---|---|---|
| Sketch No.: ***WSCE-HS-SK-0001*** | | Rev: ***01*** |
| Date: ***05/08/2025*** | Scale: ***NTS*** | Drawn: ***LB*** |
| Project No.: ***6552001*** | | Approved: ***N/A*** |

THIS SKETCH IS ISSUED FOR INFORMATION PURPOSES ONLY UNLESS SPECIALLY AUTHORISED AND VERIFIED

WSce Pty Ltd
ACN: 668 655 161
ABN 79 668 655 161
info@wsce.com.au
wsce.com.au

WSce Driven by excellence, built on experience.

**LEGEND**

SITE BOUNDARY

PRIMARY SETBACK

SEPARATION

WORK IN PROGRESS 11.07.25

Date generated 11/07/2025 6:01:20 PM Autodesk Docs://121234_WMQ North Precinct/WMQ-BLD1-WBG-AR-MDL-0101-RVT-R24.rvt

Recent revision history

| # | Status | Description | Date |
|---|---|---|---|
| A | | FOR INFORMATION | 11/07/25 |

Current Revision Amendments

| # | Mark | Comments |
|---|---|---|

Notes

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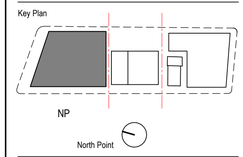
Contractor must verify all dimensions on site before commencing work or preparing shop drawings.

Do not scale drawings.

Key Plan




Client

Waterloo Integrated Station Development
A Joint Venture Project
JOHN HOLLAND
mirvac

NSW GOVERNMENT | sydney METRO

Consultant

W–B™
WOODS BAGOT

Project

WATERLOO METRO QUARTER DEVELOPMENT

| Project number | Size check |
|---|---|
| 121234 | 25mm |

| Checked | Approved | Sheet size | Scale |
|---|---|---|---|
| Checker | Approver | A1 | As indicated |

Sheet title

SITE PLAN

Status

FOR INFORMATION

| Sheet number | Revision |
|---|---|
| WMQ-BD1-WBG-AR-DRG-DA004 | A |

Case number 190164

14 September 2023

WL DEVELOPER PTY LTD
c/ - WSP AUSTRALIA PTY LTD

# Notice of requirements
# SECTION 73 SUBDIVIDER/COMPLIANCE CERTIFICATE
# (Sydney Water Act 1994, Part 6, Division 9)

| | |
|---|---|
| **Developer:** | **WL DEVELOPER PTY LTD** |
| **Your reference:** | **Building 1** |
| **Development:** | **Lot 190 DP1257150**<br>**49 Botany Rd, Waterloo** |
| **Development Description:** | **Construction of the Northern Precinct within Waterloo Metro Quarter.** |
| **Council Consent No:** | **SSD 10440 by Dept of Planning and Infrastructure of September 23, 2021** |
| **Your application date:** | **March 30, 2021** |

Dear Applicant

We've assessed your application for a Section 73 Compliance Certificate for the subdivision shown above. Before we can issue the Certificate, you must meet our requirements set in this notice.

You have until **14 September 2024** to accept our requirements, have your deeds executed, design endorsed and have a construction commencement notice (CCN) submitted. If you don't, you'll have to reapply and pay another application fee and you'll receive another notice. The notice may change, and you may have new requirements.

Your Water Servicing Coordinator (WSC) will be your point of contact with us. They can answer questions you might have on our developer process and charges, or you can visit our websites Plumbing, building & developing page. We also have a Developer application progress so you can see the status of your application, just enter your case number and your email address, you'll receive a response right away.

Infrastructure contributions for drinking water and wastewater will be payable on all developments that require a Section 73 Compliance Certificate to be issued from 1 July 2024 onwards. Infrastructure contributions help recover the cost of providing infrastructure to new developments. Please refer to the Costs section of this letter for more information.

## What you need to do to get your Section 73 Certificate

## Summary

You'll need to do the following:

1. Engage a Water Servicing Coordinator (WSC) before you sign the enclosed Developer Works Deed.

2. Sign both the original copies of the enclosed Developer Works Deed.

3. After you have signed the Deeds, build the required sewer works at your cost.

4. Meet any ancillary requirements detailed in section 4.

5. Have your building plans approved because what you are building may be over or near our pipes and we need to check your property building plans. Excavation and building works cannot commence until you have approval. Your WSC can tell you more about this and help with the approval.

6. Sign the enclosed Undertaking for multi-level individual metering.

**Other things you might have to do:**

There may be other things you might need to do but are not a requirement of the Certificate. You must read these requirements to see if any of them are required as a result of your subdivision. They're detailed at the end of this notice.

# Your requirements in detail

## 1. Water Servicing Coordinator (WSC)

You need to engage your current or another authorised WSC to manage and construct the works that you are required to service your subdivision. If you choose to engage another WSC you need to let us know in **writing**.

You'll find a list of WSC's at Listed providers page on our website.

**Your WSC will give you a quote and information about our costs for services, works and our costs.**

## 2. Developer Works Deed

**After** you engage a WSC, you must engage other Developer Infrastructure Providers (Providers) to carry out, where needed, the design and construction of the works. They must all have the appropriate capability. Your WSC can assist you.

You and your Providers will need to enter into an agreement with us. To do this you need to sign and lodge **both originals** of the enclosed Developer Works Deed (Deed) with your nominated WSC. You will then need to work with your WSC to have the other Providers sign the Deed.

If your WSC or Providers are different for any of the asset types, then you will need to sign separate Deeds.

Before signing the Deed, each party must also read and understand the conditions of the agreement that are set out in the Developer Works Deed – Schedule 1: Standard Terms document. That document as well as information about it are available at Developer deeds and standard terms (sydneywater.com.au) where you can find more about Developer deeds & standard terms.

The Deed and the Standard Terms set out for this development all parties' roles and responsibilities as well as other information.

**You must do all the things that we ask you to do in the Deed.** This is because lots in your subdivision do not have sewer services and you must construct and pay for the following works extensions under this Deed to provide these services.

## 3. Water and sewer works

### 3.1 Water

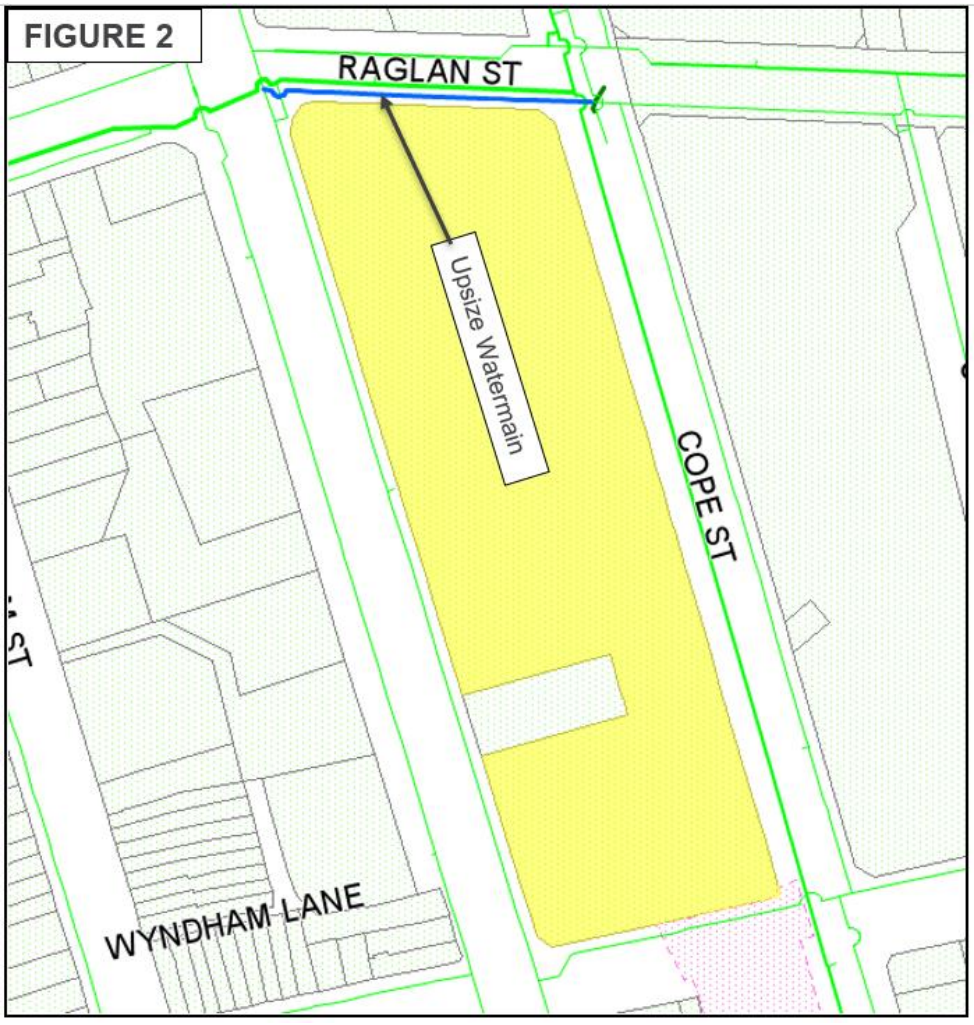
Each lot in your subdivision must have a frontage to a water main that is the right size and can be used for connection.

We've assessed your application and found that:

The proposed development site is under Botany Gravity Water Supply Zone. The Water Supply Zone has the capacity to service this development.

You are required to connect to a watermain sized and configured according to the Water Code of Australia WSA 03-2011-3.1 (Sydney Water Edition – 2012 to provide a point of connection that will serve your development. The developer must upsize the existing DN100 main in Reglan Street fronting the development site. The extent of upsizing is shown in **Figure 2**.

We advise that Sydney Metro are also undertaking works in the area and propose to deliver a DN200 watermain in Raglan Street under Case 191252 - this DN200 will provide appropriately sized point of connection. The design for this main is not available yet. Your Coordinator, WSP Australia Pty Ltd are also the coordinator for Sydney Metro, they will be able to provide you further advice about their proposed works and timing.



### 3.2 Sewer

Each lot in your subdivision 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 each lot's boundaries.

We've assessed your application and found that:

- The proposed development footprint with sewer connections are shown in **Figure 3.**

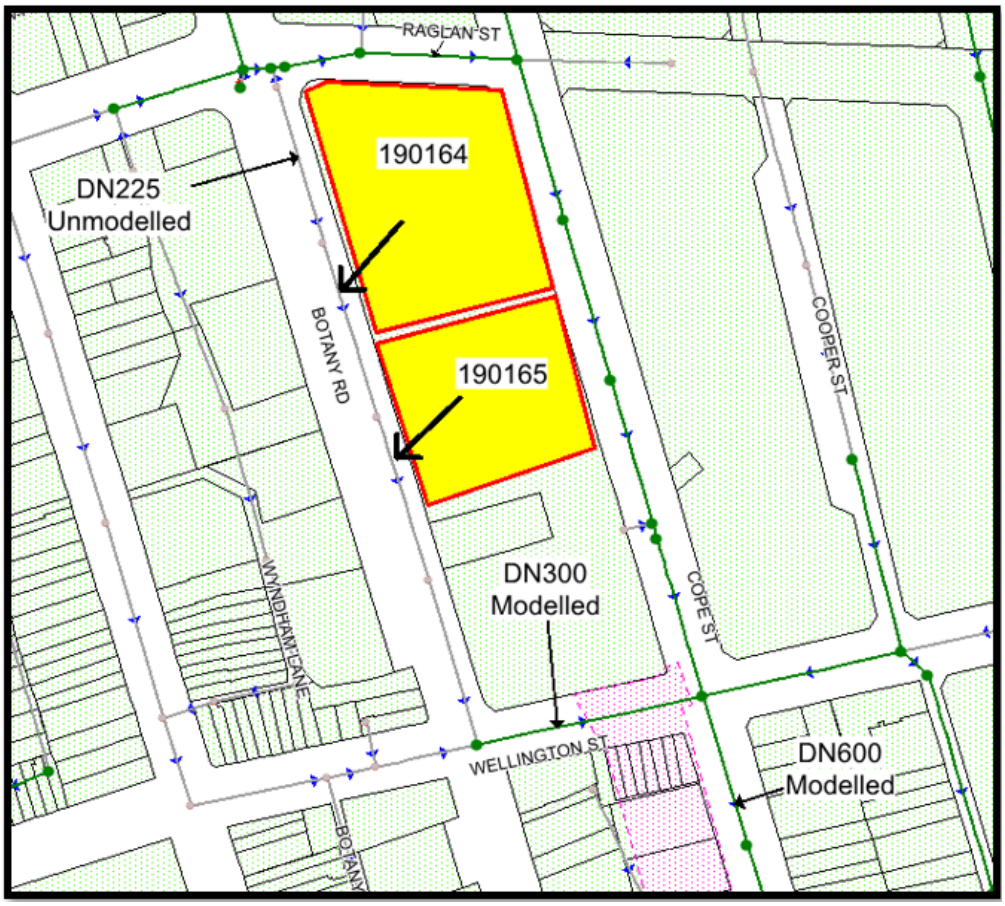



**Figure 3 Sewer Network and development location**

- CN 190164 will discharge near the very upstream end of the DN225, via a new DN225 connection. There are no other sewer loadings upstream of the proposed connection. Case 190165 next door has an additional identical loading of 48 kL/d but addressed in a separate case.

- The existing DN225 on Botany Road, drains to a DN300 on Wellington Street, which then discharges to a DN600 sewer flow south on Cope Street.

- The existing DN225 is unmodelled, but with there is very little load on this pipe. The dry and wet weather capacity is more than sufficient.

- There are no dry or wet weather downstream capacity issues taking all new and existing loading into account.

- There is sufficient capacity for sewer connection of 190164.
- **You must construct a wastewater main extension to serve building 1.** The terms of the Deed define this extension as 'Minor Works', which means that they are designed and constructed under a simpler process. Your WSC will be able to provide further advice about this.

### 3.3 Stormwater Requirements.

## Building over or adjacent to stormwater assets

No building or permanent structure is to be proposed over the stormwater channel / pipe or within **1m** from the outside wall of the channel / pipe or within Sydney Water easement whichever is larger. Permanent structures include (but are not limited to) basement car park, hanging balcony, roof eves, hanging stairs, stormwater pits, stormwater pipes, elevated driveway, basement access or similar structures. This clearance requirement would apply for unlimited depth and height.

The applicant is required to submit the elevation drawings with the stormwater channel/ pipe, to ensure that the proposed buildings and permanent structures are 1m away from the outside face of the stormwater channel and away from the Sydney Water easement.

### Locating the Exact Position of the Stormwater Channel

Exact position of the stormwater pipe/ channel is to be identified using pot holes or any other acceptable survey method. Location of the easement position should not be used as location of the stormwater channel/ pipe/ Asset.

### Dilapidation Survey Report

The proponent is required to undertake a dilapidation survey report / CCTV report of the Sydney Water's stormwater channel/ pipe prior to commencement of any work on the site. This report should extent at least 5m upstream and downstream from the property boundary. A copy of this dilapidation report is to be provided to Sydney Water.

This dilapidation survey report/ CCTV Report is to be carried out again upon completion of all construction work and need to provide an assessment report. This assessment report needs to compare the pre-construction CCTV / Dilapidation report with post-construction CCTV / Dilapidation report, confirming that no damage has occurred to Sydney Water's stormwater pipe/ channel/ assets during construction.

## Stormwater connections to Sydney Water's Stormwater Channel

Details on the application for this Case No 190164 indicated, that there are no new stormwater connections to Sydney Water's stormwater channel/pipe. Proponent is required

to provide a copy of the stormwater drawings to confirm that there are no new stormwater connections to Sydney Water's stormwater assets from this development.

## On-site Stormwater Detention (OSD)

The proposed activity / development will require an OSD system to offset stormwater run-off. To determine the required-On Site Detention and Permissible Site Discharge (PSD), the following site-specific information is required to be submitted:

- Total site area ($m^2$)
- Existing pre-development impervious area ($m^2$)
- Proposed post-development impervious area ($m^2$)

If a percentage of the site area does not drain into the OSD system, the rate of discharge from the OSD storage must be restricted so that the total flow from the site (from the OSD storage and free runoff) does not exceed the specified PSD.

On Site Detention is to be designed according to the Sydney Water's values and the details of the On-Site Detention are to be submitted to Sydney Water for review and approval.

The following details are to be included in your submission for On Site Detention approval:

- Location of the On-Site Detention in relation to the development
- Location of the On-Site Detention in relation to overall stormwater network of the property
- Plan and Elevation of the On-Site Detention tank with all dimensions
- Orifice plate calculation

### Positive Covenant for On-site Stormwater detention

If the proposed development does not require to comply with Council's requirements to create a positive covenant for On Site Detention maintenance, then following requirements would apply which require the proponent to create a positive covenant on their title to maintain the On-Site Detention tank.

You are required to create a Positive Covenant over the On-site Stormwater Detention. The Positive Covenant must follow the rules laid out in Sydney Water's Policy and Guidelines on the "Documentation Standards for On-site stormwater detention guide".

You should contact Sydney Water's Group Property to get the specific details via email acquisitions@sydneywater.com.au or Ph: 02 8849 6223 or 02 8849 4532

If the proposed subdivision is required to discharge stormwater into our stormwater channel, then a separate application is to be forwarded to us.

All stormwater connections should comply with our On-Site Detention policy and connection requirements. For further details please email our Stormwater Team at stormwater@sydneywater.com.au

## 4. Ancillary matters

### 4.1 Flow Management and Isolation of our assets

The above works are constructed with a connection/cut-in to our water, wastewater, or stormwater assets. To ensure it complies with Occupational and Safety and Environment legislation, you can talk to your WSC about the timely submission to us of a request for flow management and asset isolation requirements.

### 4.2 Asset adjustments

After we've issued this Notice (and more detailed designs are available), we might require the watermain/sewer main/stormwater located in the footway/your property be adjusted/deviated. If this happens, you'll need to do this work as well as the extension we have detailed above at your cost. The work must meet the conditions of this Notice and you will need to complete it **before we can issue the Certificate**.

We need to see the completed designs for the work, and you'll have to lodge a security. The security will be refunded once the work is completed.

### 4.3 Entry onto neighbouring property

If you need to enter a neighbouring property, you must have written permission from all relevant property owners and tenants. You'll have to use our **Permission to enter' form(s)** for this. You can get copies of these from your WSC. They can also negotiate on your behalf to obtain permission. Please address all items on the form(s) including payment of compensation and whether there are other ways of designing and constructing that could avoid or reduce impacts on neighbouring properties. You're responsible for all costs of mediation involved in resolving any disputes that may occur. You need to allow enough time in case there are entry issues that need to be resolved.

### 4.4 Costs

Construction of these works means you'll have to pay project management, survey, design and construction costs directly to your providers. Additional costs payable to us might include:

- Design and construction audit fees
- Contract administration, operational area charge (Cut-In, Connection and Chlorination costs can average $3,000 for each service) and customer redress before you finalise the development.
- Creation or alteration of easements

- Additional fees for re-issuing a Notice of Requirements or Advice letter, or for updating the requirements where you have provided additional or amended information regarding your development.
- Additional fees for reviewing alternate servicing option(s) for Minor or Major works.
- If we engaged or will engage specialist consultants to review your proposal, we will pass that direct cost back to you as part of the Contract Administration costs. E.g., costs incurred from our Engineering Panel

**Note**: Payment of any goods and services including customer redress provided by us will be required prior to the issue of the Certificate or applicable a bank guarantee or cash bond.

Your WSC can tell you about these costs.

**Infrastructure Contributions**

Infrastructure contributions for drinking water and wastewater will be payable on all developments that require a Section 73 Compliance Certificate to be issued from 1 July 2024 onwards.

The infrastructure contributions are set in accordance with the Development Servicing Plans registered with the Independent Pricing and Regulatory Tribunal (IPART) and in accordance with *Independent Pricing and Regulatory Tribunal Act*.

The contributions will be gradually reintroduced such that they will be capped at 25 percent in 2024-25 and 50 percent in 2025-26, with full contributions payable from 1 July 2026 onwards, in line with a transition plan approved by the NSW Government.

You can find more information on the reintroduction of drinking water and wastewater contributions at https://www.sydneywatertalk.com.au/infrastructure-contributions.

If applicable, Sydney Water will confirm the amount of the infrastructure contribution for your development, we anticipate this information will be available in late 2023.

## 5. Approval of your Building Plans

You must have your building plans approved by a WSC **before the Certificate can be issued. In any case, building construction work MUST NOT commence until we have granted approval.** Approval is needed because construction/building works may affect our assets (e.g., water, sewer, and stormwater mains). If our stormwater channel, pipe, or culvert is located within ten (10) metres of your development site your WSC must refer your building plans to us for a detailed review.

Your WSC 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 our assets are located in relation to your proposed building work. Your WSC will then either approve the plans or make requirements to protect those assets before approving the plans.
- Possible requirements
- Their Costs
- Timeframes.

If your building plans need to be referred to us for detailed review, you'll be required to pay us for the costs associated with the detailed review.

You can also find information about this process (including technical specifications) on our Plumbing, building & developing page on our website or call us on 13 20 92.

**Notes:**

- **The Certificate will not be issued until the plans have been approved and, if required, our assets are altered or deviated.**
- **You can only remove, deviate, or replace any of our pipes using temporary pipework if you have written approval from us. You must engage your WSC to arrange this approval.**
- **You must obtain our written approval before you do any work on our systems. We'll 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.***

**6. Multi-level individual metering requirements**

Your development must either allow for or provide individual metering. This means that you must:

- comply at all times and in all respects with the requirements of Sydney Water's "*Multi-level Individual Metering Guide*" (version 6 dated 1 July 2015);
- provide and install plumbing and space for individual metering in accordance with Sydney Water's "*Multi-level Individual Metering Guide*";
- if and when you implement a strata/ stratum plan (or strata/ stratum subdivide) you must:

    **5.** engage an Accredited Metering Supplier ("**AMS**") to provide individual metering in accordance with the "*Multi-level Individual Metering Guide"* and meet the cost of the meters and metering system.

    **6.** transfer the meters and metering system to Sydney Water once the Testing Certificate has been issued by Sydney Water to the AMS and the AMS has confirmed that payment for the meters and metering system has been paid in full.

**Before the Section 73 Certificate can be issued,** you must sign the attached undertaking to show that you understand and accept these metering requirements and associated costs.

Visit www.sydneywater.com.au > Plumbing, Building & Developing > Plumbing > Meters & metered standpipes to see the *Multi-level individual metering guide* and find out more.

**Other things you need to do.**

**The requirements in this Notice relate only to your** subdivision and are not a requirement for the Certificate. There could be other requirements we ask from you. 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 our sewer main. This work must meet our 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 our 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

## 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 subdivision and the ability of our system to provide that flow in an emergency. Sydney Water's Operating Licence directs that our 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 ™ 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 subdivision with a domestic supply. The size of your subdivision 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 ™. 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 fire flow pressure inquiry issued by us.
- a pump application form (if a pump is required)
- all pump details (if a pump is required).

You'll have to pay an application fee.

We don't consider whether a water main is adequate for firefighting purposes for your development. We can't 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 our water main. This work must meet our 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

We may be involved in other aspects of your subdivision and there will be other fees and requirements. These include:

- the installation of backflow prevention devices, your plumber will advise you about this,
- trade waste requirements
- large water connections and
- Council firefighting requirements (it will help you if you know what the firefighting requirements are for your development as soon as possible, your hydraulic consultant can help you with this).

**END OF NOTICE**

Case number 190165

18 September 2023

WL DEVELOPER PTY LTD
c/ - WSP AUSTRALIA PTY LTD

# Notice of requirements
# SECTION 73 SUBDIVIDER/COMPLIANCE CERTIFICATE
# (Sydney Water Act 1994, Part 6, Division 9)

| | |
|---|---|
| **Developer:** | **WL DEVELOPER PTY LTD** |
| **Your reference:** | **Building 2** |
| **Development:** | **Lot 190 DP1257150**<br>**49 Botany Rd, Waterloo** |
| **Development Description:** | **Construction of the Central Precinct within Waterloo Metro Quarter** |
| **Council Consent No:** | **SSD10439 by Dept of Planning and Infrastructure of November 24, 2021** |
| **Your application date:** | **March 30, 2021** |

Dear Applicant

We've assessed your application for a Section 73 Compliance Certificate for the development shown above. Before we can issue the Certificate, you must meet our requirements set in this notice.

You have until **18 September 2024** to accept our requirements, have your deeds executed, design endorsed and have a construction commencement notice (CCN) submitted. If you don't, you'll have to reapply and pay another application fee and you'll receive another notice. The notice may change, and you may have new requirements.

Your Water Servicing Coordinator (WSC) will be your point of contact with us. They can answer questions you might have on our developer process and charges, or you can visit our websites Plumbing, building & developing page. We also have a Developer application progress so you can see the status of your application, just enter your case number and your email address, you'll receive a response right away.

Infrastructure contributions for drinking water and wastewater will be payable on all developments that require a Section 73 Compliance Certificate to be issued from 1 July 2024 onwards. Infrastructure contributions help recover the cost of providing infrastructure to new developments. Please refer to the Costs section of this letter for more information.

# What you need to do to get your Section 73 Certificate

## Summary

You'll need to do the following:

1. Engage a Water Servicing Coordinator (WSC) before you sign the enclosed Developer Works Deed.

2. Sign both the original copies of the enclosed Developer Works Deed.

3. After you have signed the Deeds, build the required sewer works at your cost.

4. Meet any ancillary requirements detailed in section 4.

5. Have your building plans approved because what you are building may be over or near our pipes and we need to check your property building plans. Excavation and building works cannot commence until you have approval. Your WSC can tell you more about this and help with the approval.

6. Sign the enclosed Undertaking for multi-level individual metering.

**Other things you might have to do:**

There may be other things you might need to do but are not a requirement of the Certificate. You must read these requirements to see if any of them are required as a result of your development. They're detailed at the end of this notice.

## Your requirements in detail

### 1. Water Servicing Coordinator (WSC)

You need to engage your current or another authorised WSC to manage and construct the works that you are required to service your development. If you choose to engage another WSC you need to let us know in **writing**.

You'll find a list of WSC's at Listed providers page on our website.

**Your WSC will give you a quote and information about our costs for services, works and our costs.**

### 2. Developer Works Deed

**After** you engage a WSC, you must engage other Developer Infrastructure Providers (Providers) to carry out, where needed, the design and construction of the works. They must all have the appropriate capability. Your WSC can assist you.

You and your Providers will need to enter into an agreement with us. To do this you need to sign and lodge **both originals** of the enclosed Developer Works Deed (Deed) with your nominated WSC. You will then need to work with your WSC to have the other Providers sign the Deed.

If your WSC or Providers are different for any of the asset types, then you will need to sign separate Deeds.

Before signing the Deed, each party must also read and understand the conditions of the agreement that are set out in the Developer Works Deed – Schedule 1: Standard Terms document. That document as well as information about it are available at Developer deeds and standard terms (sydneywater.com.au) where you can find more about Developer deeds & standard terms.

The Deed and the Standard Terms set out for this development all parties' roles and responsibilities as well as other information.

**You must do all the things that we ask you to do in the Deed.** This is because your development does not have sewer services and you must construct and pay for the following works extensions under this Deed to provide these services.

### 3. Water and sewer works

#### 3.1 Water

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

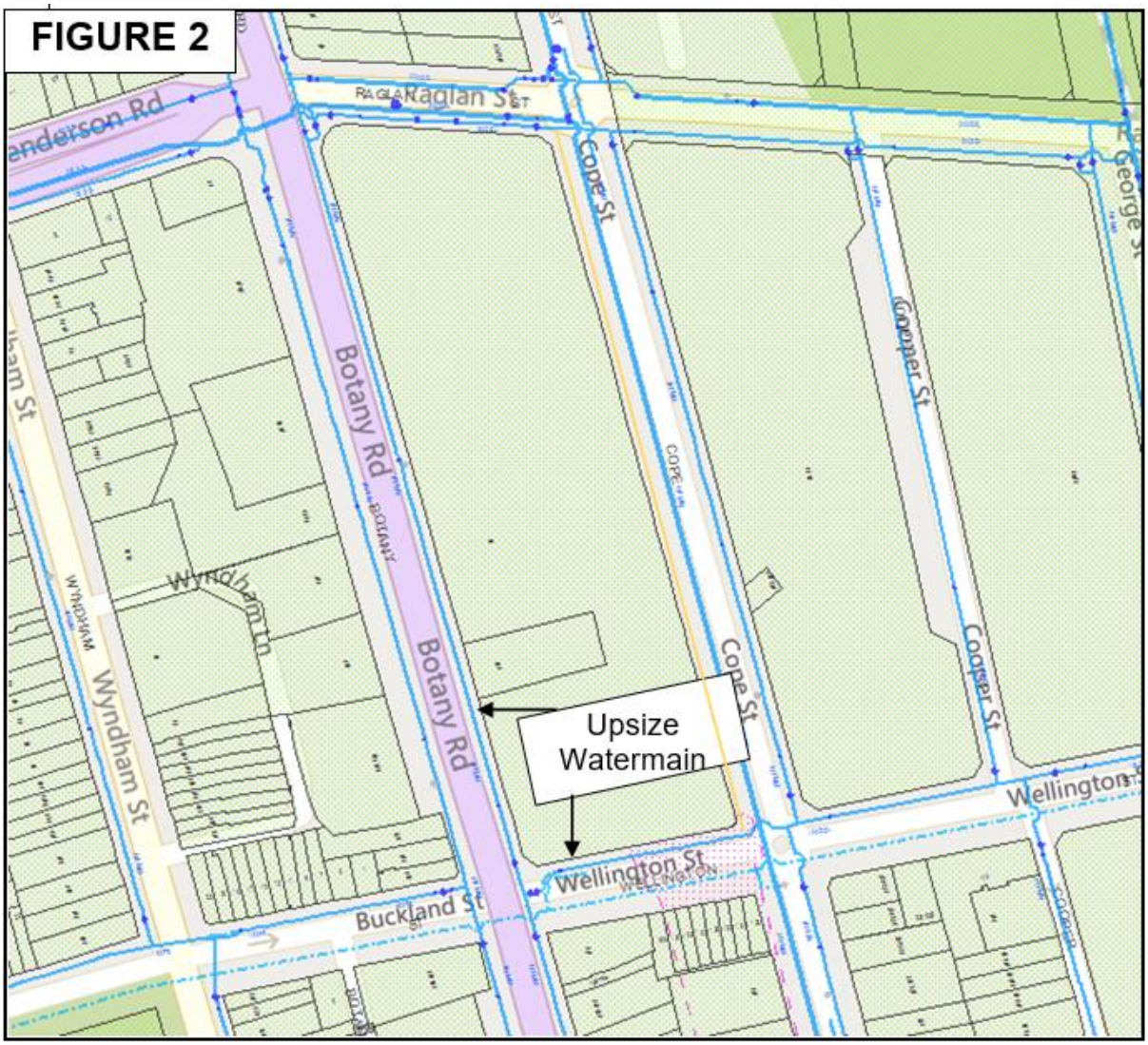
We've assessed your application and found that:

- The proposed development site is under Botany Gravity Water Supply Zone. The Water Supply Zone has the capacity to service this development.

- According to WSA Code, the minimum watermain size to service 8+ storey building is DN200-DN250.

- The existing water mains in Botany Road (CN191252PW) and Wellington Street (CN194544PW), fronting the development site will be upsized to DN200. The water connection of the building 3 of the new development (CN190166) to these upsized water mains are acceptable. Refer to **Figure 2**.

**FIGURE 2**



#### 3.1.1. Case Dependencies

**A Section 73 Compliance Certificate for this case will not be issued prior to the completion and transfer to Sydney Water's ownership of the below mentioned cases:**

- Water services to your development are dependent upon the prior completion of works being delivered **under case 191252PW & 194544PW.**

### 3.2 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.

We've assessed your application and found that:

- The proposed development footprint with sewer connections are shown in **Figure 3.**
- This case 190165 will discharge near the very upstream end of the DN225, via a new DN225 connection. There are no other sewer loadings upstream of the proposed connection, apart from Case 190164 next door and upstream which has an additional identical loading of 48 kL/d. This is addressed in a separate case.
- The existing DN225 on Botany Road, drains to a DN300 on Wellington Street, which then discharges to a DN600 sewer flow south on Cope Street.
- The existing DN225 is unmodelled, but with there is very little load on this pipe. The dry and wet weather capacity is more than sufficient.
- There are no dry or wet weather downstream capacity issues taking all new and existing loading into account.
- There is sufficient capacity for sewer connection of 190165.

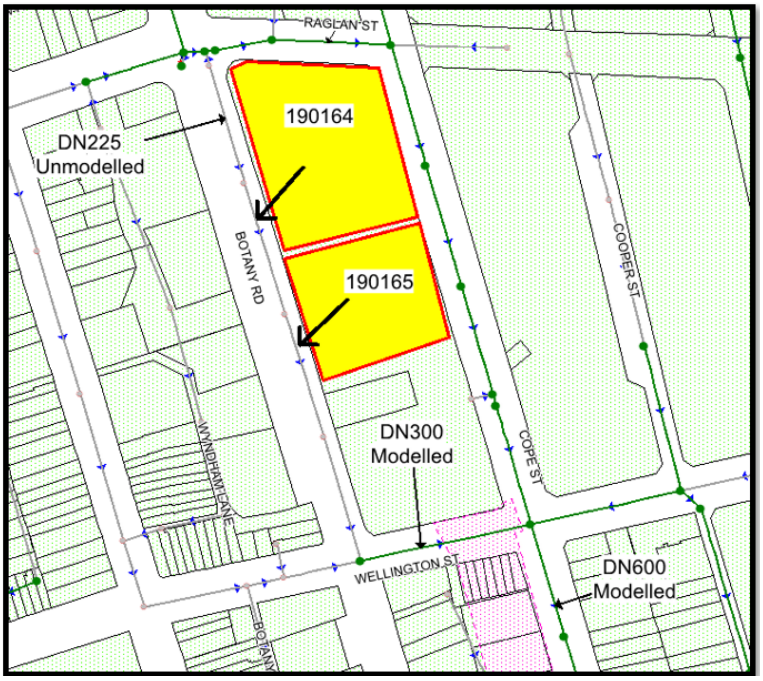



**Figure 2 Sewer Network and Development Location**

- **You must construct a wastewater main extension to serve building 2.** The terms of the Deed define this extension as 'Minor Works', which means that they are designed and constructed under a simpler process. Your WSC will be able to provide further advice about this.

### 3.3 Stormwater Requirements.

## Building over or adjacent to stormwater assets

No building or permanent structure is to be proposed over the stormwater channel / pipe or within **1m** from the outside wall of the channel / pipe or within Sydney Water easement whichever is larger. Permanent structures include (but are not limited to) basement car park, hanging balcony, roof eves, hanging stairs, stormwater pits, stormwater pipes, elevated driveway, basement access or similar structures. This clearance requirement would apply for unlimited depth and height.

The applicant is required to submit the elevation drawings with the stormwater channel/ pipe, to ensure that the proposed buildings and permanent structures are 1m away from the outside face of the stormwater channel and away from the Sydney Water easement.

### Locating the Exact Position of the Stormwater Channel

Exact position of the stormwater pipe/ channel is to be identified using potholes or any other acceptable survey method. Location of the easement position should not be used as location of the stormwater channel/ pipe/ Asset.

**Dilapidation Survey Report**

The proponent is required to undertake a dilapidation survey report / CCTV report of the Sydney Water's stormwater channel/ pipe prior to commencement of any work on the site. This report should extent at least 5m upstream and downstream from the property boundary. A copy of this dilapidation report is to be provided to Sydney Water.

This dilapidation survey report/ CCTV Report is to be carried out again upon completion of all construction work and need to provide an assessment report. This assessment report needs to compare the pre-construction CCTV / Dilapidation report with post-construction CCTV / Dilapidation report, confirming that no damage has occurred to Sydney Water's stormwater pipe/ channel/ assets during construction.

## Stormwater connections to Sydney Water's Stormwater Channel

Details on the application for this Case No 190165 indicated, that there are no new stormwater connections to Sydney Water's stormwater channel/pipe. Proponent is required to provide a copy of the stormwater drawings to confirm that there are no new stormwater connections to Sydney Water's stormwater assets from this development.

## On-site Stormwater Detention (OSD)

The proposed activity / development will require an OSD system to offset stormwater run-off. To determine the required-On Site Detention and Permissible Site Discharge (PSD), the following site-specific information is required to be submitted:

- Total site area ($m^2$)
- Existing pre-development impervious area ($m^2$)
- Proposed post-development impervious area ($m^2$)

If a percentage of the site area does not drain into the OSD system, the rate of discharge from the OSD storage must be restricted so that the total flow from the site (from the OSD storage and free runoff) does not exceed the specified PSD.

On Site Detention is to be designed according to the Sydney Water's values and the details of the On-Site Detention are to be submitted to Sydney Water for review and approval.

The following details are to be included in your submission for On Site Detention approval:

- Location of the On-Site Detention in relation to the development
- Location of the On-Site Detention in relation to overall stormwater network of the property
- Plan and Elevation of the On-Site Detention tank with all dimensions
- Orifice plate calculation

**Positive Covenant for On-site Stormwater detention**

If the proposed development does not require to comply with Council's requirements to create a positive covenant for On Site Detention maintenance, then following requirements would apply which require the proponent to create a positive covenant on their title to maintain the On-Site Detention tank.

You are required to create a Positive Covenant over the On-site Stormwater Detention. The Positive Covenant must follow the rules laid out in Sydney Water's Policy and Guidelines on the "Documentation Standards for On-site stormwater detention guide".

You should contact Sydney Water's Group Property to get the specific details via email acquisitions@sydneywater.com.au or Ph: 02 8849 6223 or 02 8849 4532

If the proposed development is required to discharge stormwater into our stormwater channel, then a separate application is to be forwarded to us.

All stormwater connections should comply with our On-Site Detention policy and connection requirements. For further details please email our Stormwater Team at stormwater@sydneywater.com.au

## 4. Ancillary matters

### 4.1 Flow Management and Isolation of our assets

The above works are constructed with a connection/cut-in to our water, wastewater, or stormwater assets. To ensure it complies with Occupational and Safety and Environment legislation, you can talk to your WSC about the timely submission to us of a request for flow management and asset isolation requirements.

### 4.2 Asset adjustments

After we've issued this Notice (and more detailed designs are available), we might require the watermain/sewer main/stormwater located in the footway/your property be adjusted/deviated. If this happens, you'll need to do this work as well as the extension we have detailed above at your cost. The work must meet the conditions of this Notice and you will need to complete it **before we can issue the Certificate**.

We need to see the completed designs for the work, and you'll have to lodge a security. The security will be refunded once the work is completed.

### 4.3 Entry onto neighbouring property

If you need to enter a neighbouring property, you must have written permission from all relevant property owners and tenants. You'll have to use our **Permission to enter' form(s)** for this. You

can get copies of these from your WSC. They can also negotiate on your behalf to obtain permission. Please address all items on the form(s) including payment of compensation and whether there are other ways of designing and constructing that could avoid or reduce impacts on neighbouring properties. You're responsible for all costs of mediation involved in resolving any disputes that may occur. You need to allow enough time in case there are entry issues that need to be resolved.

### 4.4 Costs

Construction of these works means you'll have to pay project management, survey, design and construction costs directly to your providers. Additional costs payable to us might include:

- Design and construction audit fees
- Contract administration, operational area charge (Cut-In, Connection and Chlorination costs can average $3,000 for each service) and customer redress before you finalise the development.
- Creation or alteration of easements
- Additional fees for re-issuing a Notice of Requirements or Advice letter, or for updating the requirements where you have provided additional or amended information regarding your development.
- Additional fees for reviewing alternate servicing option(s) for Minor or Major works.
- If we engaged or will engage specialist consultants to review your proposal, we will pass that direct cost back to you as part of the Contract Administration costs. E.g., costs incurred from our Engineering Panel

**Note**: Payment of any goods and services including customer redress provided by us will be required prior to the issue of the Certificate or applicable a bank guarantee or cash bond.

Your WSC can tell you about these costs.

### Infrastructure Contributions

Infrastructure contributions for drinking water and wastewater will be payable on all developments that require a Section 73 Compliance Certificate to be issued from 1 July 2024 onwards.

The infrastructure contributions are set in accordance with the Development Servicing Plans registered with the Independent Pricing and Regulatory Tribunal (IPART) and in accordance with *Independent Pricing and Regulatory Tribunal Act*.

The contributions will be gradually reintroduced such that they will be capped at 25 percent in 2024-25 and 50 percent in 2025-26, with full contributions payable from 1 July 2026 onwards, in line with a transition plan approved by the NSW Government.

You can find more information on the reintroduction of drinking water and wastewater contributions at https://www.sydneywatertalk.com.au/infrastructure-contributions.

If applicable, Sydney Water will confirm the amount of the infrastructure contribution for your development, we anticipate this information will be available in late 2023.

## 5. Approval of your Building Plans

You must have your building plans approved by a WSC **before the Certificate can be issued. In any case, building construction work MUST NOT commence until we have granted approval.** Approval is needed because construction/building works may affect our assets (e.g., water, sewer, and stormwater mains). If our stormwater channel, pipe, or culvert is located within ten (10) metres of your development site your WSC must refer your building plans to us for a detailed review.

Your WSC 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 our assets are located in relation to your proposed building work. Your WSC will then either approve the plans or make requirements to protect those assets before approving the plans.
- Possible requirements
- Their Costs
- Timeframes.

If your building plans need to be referred to us for detailed review, you'll be required to pay us for the costs associated with the detailed review.

You can also find information about this process (including technical specifications) on our Plumbing, building & developing page on our website or call us on 13 20 92.

**Notes:**

- **The Certificate will not be issued until the plans have been approved and, if required, our assets are altered or deviated.**
- **You can only remove, deviate, or replace any of our pipes using temporary pipework if you have written approval from us. You must engage your WSC to arrange this approval.**
- **You must obtain our written approval before you do any work on our systems. We'll 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.***

## 6. Multi-level individual metering requirements

Your development must either allow for or provide individual metering. This means that you must:

1. comply at all times and in all respects with the requirements of our "*Multi-level Individual Metering Guide*". You can find this in the Meters & metered standpipes page on our website.

2. provide and install plumbing and space for individual metering in accordance with our "*Multi-level Individual Metering Guide*";

3. if and when you implement a strata/ stratum plan (or strata/ stratum subdivide) you must:

    a. engage an Accredited Metering Supplier ("**AMS**") to provide individual metering in accordance with the "*Multi-level Individual Metering Guide"* and meet the cost of the meters and metering system.

    b. transfer the meters and metering system to us once the Testing Certificate has been issued by us to the AMS and the AMS has confirmed that payment for the meters and metering system has been paid in full.

**Before the Section 73 Certificate can be issued,** you must sign the attached undertaking to show that you understand and accept these metering requirements and associated costs.

Visit Meters & metered standpipes to see the *Multi-level individual metering guide* and find out more.

**Other things you need to do.**

**The requirements in this Notice relate only to your** development and are not a requirement for the Certificate. There could be other requirements we ask from you. 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 our sewer main. This work must meet our 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 our 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

**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 our system to provide that

flow in an emergency. Sydney Water's Operating Licence directs that our 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 ™ 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 ™. 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 fire flow pressure inquiry issued by us.
- a pump application form (if a pump is required)
- all pump details (if a pump is required).

You'll have to pay an application fee.

We don't consider whether a water main is adequate for firefighting purposes for your development. We can't 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 our water main. This work must meet our 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

We may be involved in other aspects of your development and there will be other fees and requirements. These include:

- the installation of backflow prevention devices, your plumber will advise you about this,
- trade waste requirements

- large water connections and
- Council firefighting requirements (it will help you if you know what the firefighting requirements are for your development as soon as possible, your hydraulic consultant can help you with this).

**END OF NOTICE**

# CONSULTANT ADVICE NOTE

| | | | |
|---|---|---|---|
| **Project** | 6552001 - Waterloo Metro Quarter - (WMQ) | **Project No:** | 6552001 |
| **Prepare by:** | Ken Tantra | **Client:** | Mirvac Projects Pty Limited |
| **Reviewed by:** | Robert Bozic | **Issued to:** | Judy Hsu, Anita Qian |
| **Approved by:** | David Bolt | **Document No.:** | 01 |
| **Discipline:** | Fire Services | **Revision No.:** | 01 |
| | | **Issue Date:** | 8 July 2025 |
| **Title:** | **Basement, Building 1a, 1b and 2 – Fire Services Protection** | | |

The Consultant Advice Note (CAN) is in relation to the required Sydney Water town main water supply and water infrastructure design for the fire services system design at Waterloo Metro Quarter (Basement, Building 1a, 1b & 2) in accordance with the MIRVAC *NQSC Technical Note 07 (NQSC TN 07)* which nominates a guideline for designing compliant and reliable fire safety water supply systems (town main supply) by reducing the flow value by 50% to account for system degradation.

The buildings wet fire protection system designs have been designed in accordance with the following Australian Standards, project design, codes and authority requirements.

- National Construction Code (NCC) 2022
- Combined sprinkler and hydrant system in accordance with AS 2118.6-2012,
- Automatic fire sprinkler system in accordance with AS 2118.1-2017,
- Fire hydrants installed in accordance with AS 2419.1-2021,
- Fire hose reels installed in accordance with and AS 2441-2005,
- FER requirements,
- FRNSW requirements,
- National Quality and Standard Committee (NQSC)

Fire System Design

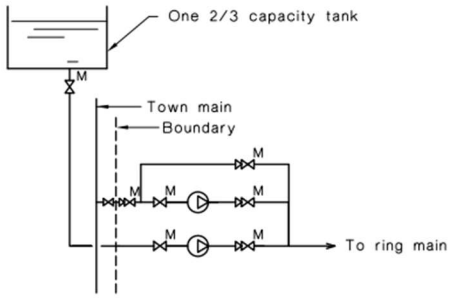
The fire services design for Waterloo Metro Quarter (Buildings 1 & 2), has been designed such that a reliable Sydney Water town main water supply will be available.

This system design is based on a dual-water supply to AS 2118.6-2012, 2.8.5 (c), and consists of:

- 1 town main, and
- 1 on-site storage tank, 2/3 capacity tank.

(c) For a dual water supply, one town main and one on-site storage tank of two-thirds capacity of that required for the combined flow for the specified period, without the provision of automatic inflow to compensate for the reduced tank capacity. Each supply shall be capable of providing water at the necessary pressure and flow to permit proper operation with or without pumps.






(i) Exceeding 25 m effective height

NOTE: See Clause 2.8.5.

FIGURE K3 TYPICAL ONE TOWN MAIN AND ONE STORAGE TANK

*Figure 1: AS 2118.6-2012 Figure K3*

Town main flow demand – Most onerous fire demand

- Carpark OH3 sprinklers to residential storage: $18\ off \times 60\ L \times 130\%\ over-discharge = 1404\ L/min = 23.4\ L/s$
- Fire Hydrants: $3\ off \times 600\ L/min = 1800\ L/min = 30\ L/s$ (compartment >5,000m2)
- Total Flow System demand: $23.4 + 30 = 53.4\ L/s$
- Pump testing to 130% flow at 80% kPa (pumps are full flow to AS 2419.1-2021)

Water required from the town main = $53.4 \times 1.3 = \mathbf{69.42\ L/s}$

Tank Size - Most onerous fire demand

- Sprinklers: $1404\ L/min \times 60\ minutes \times {}^{2}/_{3} = 56\ 160\ L \approx 57\ kL$
- Hydrants: $3\ off \times 600\ L/min \times 30\ minutes = 54\ 000\ L = 54\ kL$ (building >50m in height, compartment >5,000m2)

Tank capacity required = $56\ 160 + 54\ 000 = 110\ 160\ L \approx \mathbf{115\ kL}$

The town main forms one part of a dual-water supply to AS 2118.6-2012, 2.8.5 (c). The duration of flow required from this town main supply is 4 hours for the fire hydrants, and 1 hour for the sprinklers.

The fire tank forms the second part of the dual-water supply to AS 2118.6-2012 (c). The required capacity from this tank is 30 minutes for the fire hydrants as the buildings exceed 50 m in height, and 1 hour (x 2/3) for the sprinklers.

Pump testing requires to be 130% flow @ 80% pressure with hydrants being full flow as per AS 2419.1-2021.

***This does not include any internal drenchers, which may be required as part of a BCA Assessment for fire rating between compartments.**

Sydney Water Town Main

The current Sydney Water town main application was modelled on the 150mm Botany Road main being amplified to 200mm which nominates the max permissible flow of 118 L/s @ 27m head pressure.

## Statement of Available Pressure and Flow

Sydney WATER

**Ken Tantra**
**66 Goulburn Street**
**Sydney, 2000**

**Attention: Ken Tantra** Date: 02/06/2025

**Pressure & Flow Application Number: 2146428**
**Your Pressure Inquiry Dated: 2025-06-27**
**Property Address: 150 Cope Street, Waterloo 2017**

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

**ASSUMED CONNECTION DETAILS**

| | |
|---|---|
| Street Name: Botany Road | Side of Street: East |
| Distance & Direction from Nearest Cross Street | 12 metres South from Raglan Street |
| Approximate Ground Level (AHD): | 18 metres |
| Nominal Size of Water Main (DN): | **Proposed 200 mm** (Proposed main is based on Application Number 2094651 as requested by the applicant – Results are indicative only.) |

**EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT**

| Normal Supply Conditions | |
|---|---|
| Maximum Pressure | 57 metre head |
| Minimum Pressure | 29 metre head |

| WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS | Flow l/s | Pressure head m |
|---|---|---|
| Fire Hose Reel Installations (Two hose reels simultaneously) | 0.66 | 29 |
| Fire Hydrant / Sprinkler Installations (Pressure expected to be maintained for 95% of the time) | 10 | 30 |
| | 15 | 30 |
| | 20 | 30 |
| | 25 | 30 |
| | 70 | 30 |
| | 80 | 29 |
| | 90 | 29 |
| | 100 | 29 |
| Fire Installations based on peak demand (Pressure expected to be maintained with flows combined with peak demand in the water main) | 10 | 29 |
| | 15 | 29 |
| | 20 | 29 |
| | 25 | 29 |
| | 70 | 28 |
| | 80 | 28 |
| | 90 | 28 |
| | 100 | 28 |
| Maximum Permissible Flow | 118 | 27 |

**(Please refer to reverse side for Notes)**

**For any further inquiries regarding this application please email :**

hydraulicassessment@sydneywater.com.au

**Sydney Water Corporation** ABN 49 776 225 038
1 Smith St Parramatta 2150 | PO Box 399 Parramatta 2124 | DX 14 Sydney | T 13 20 92 | www.sydneywater.com.au
Delivering essential and sustainable water services for the benefit of the community

## General Notes

This report is provided on the understanding that (i) the applicant has fully and correctly supplied the information necessary to produce and deliver the report and (ii) the following information is to be read and understood in conjunction with the results provided.

1. Under its Act and Operating Licence, Sydney Water is not required to design the water supply specifically for fire fighting. The applicant is therefore required to ensure that the actual performance of a fire fighting system, drawing water from the supply, satisfies the fire fighting requirements.

2. Due to short-term unavoidable operational incidents, such as main breaks, the regular supply and pressure may not be available all of the time.

3. To improve supply and/or water quality in the water supply system, limited areas are occasionally removed from the primary water supply zone and put onto another zone for short periods or even indefinitely. This could affect the supply pressures and flows given in this letter. This ongoing possibility of supply zone changes etc, means that the validity of this report is limited to one (1) year from the date of issue. It is the property owner's responsibility to periodically reassess the capability of the hydraulic systems of the building to determine whether they continue to meet their original design requirements.

4. Sydney Water will provide a pressure report to applicants regardless of whether there is or will be an approved connection. Apparent suitable pressures are not in any way an indication that a connection would be approved without developer funded improvements to the water supply system. These improvements are implemented under the Sydney Water 'Urban Development Process'.

5. Pumps that are to be directly connected to the water supply require approval of both the pump and the connection. Applications are to be lodged online via Sydney Water Tap in™ system -
Sydney Water Website – www.sydneywater.com.au/tapin/index.htm. Where possible, on-site recycling tanks are recommended for pump testing to reduce water waste and allow higher pump test rates.

6. Periodic testing of boosted fire fighting installations is a requirement of the Australian Standards. To avoid the risk of a possible 'breach' of the Operating Licence, flows generated during testing of fire fighting installations are to be limited so that the pressure in Sydney Water's System is not reduced below 15 metres. Pumps that can cause a breach of the Operating Licence anywhere in the supply zone during testing will not be approved. This requirement should be carefully considered for installed pumps that can be tested to 150% of rated flow.

## Notes on Models

1. Calibrated computer models are used to simulate maximum demand conditions experienced in each supply zone. Results have not been determined by customised field measurement and testing at the particular location of the application.

2. Regular updates of the models are conducted to account for issues such a urban consolidation, demand management or zone change.

3. Demand factors are selected to suit the type of fire-fighting installation. Factor 1 indicates pressures due to system demands as required under Australian Standards for fire hydrant installations. Factor 2 indicates pressures due to peak system demands.

4. When fire-fighting flows are included in the report, they are added to the applicable demand factor at the nominated location during a customised model run for a single fire. If adjacent properties become involved with a coincident fire, the pressures quoted may be substantially reduced.

5. Modelling of the requested fire fighting flows may indicate that local system capacity is exceeded and that negative pressures may occur in the supply system. Due to the risk of water contamination and the endangering of public health, Sydney Water reserves the right to refuse or limit the amount of flow requested in the report and, as a consequence, limit the size of connection and/or pump.

6. The pressures indicated by the modelling, at the specified location, are provided without consideration of pressure losses due to the connection method to Sydney Water's mains.

National Quality and Standards Committee (NQSC) Notes

It should be noted that it appears that the *NQSC TN 07* reflects stand-alone sprinkler and hydrant system installations, and not the industry standard combined sprinkler & hydrant system installations to AS 2118.6-2012.

Therefore, we have noted the intent of the *NQSC TN07* and applied it to a combined sprinkler & hydrant system installation to AS 2118.6-2012.

Our calculations indicate that the maximum flow conditions would be 69.4 L/s (130% of the system design).

The Sydney Water town main statement nominates the max permissible flow of 118 L/s @ 27m head pressure.

In accordance with the NQSC requirement, we have reduced this maximum flow by 50% (118 / 2 = 59 L/s).

The difference between the maximum building demand and the 50% reduction is 69.4 – 59 = 10.4 L/s

As the intent is to assume a town main flow reduction this would be the town main primary water supply in a combined sprinkler & hydrant system. Therefore, we have allowed for the secondary tank to remain as 115KL.

An additional primary tank is to be included to supplement a town main flow reduction. We have nominated a 60-minute duration as follows:

- Primary Break Tank: $10.4\ L\ x\ 60\ seconds\ x\ 60\ minutes = 37,440\ L$ Type equation here.

Town Main Testing

To determine the actual town main flow the *NQSC TN 07 #1* recommends that the current town main is tested on site. WSce recommends this to be done via the adjacent Building 3 & 4 booster assembly suction points (if connected to the Botany Rd town main).

Alternative is to amplify the town main from 150mm to 200mm and test via a temporary booster assembly. Location to be in line with the Pressure and Flow enquiry 'Point 1' below in *Figure 2*.

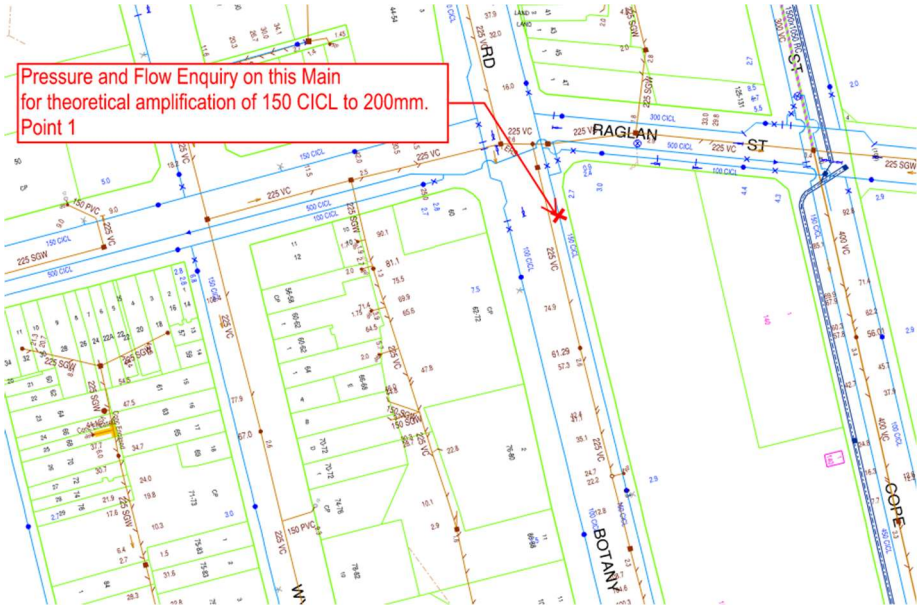



*Figure 2: DBYD map of utilities within Botany Rd*

# Appendix 3 – Ausgrid Certified Designs and Electrical Demand Calculations

© WL Developer Pty Ltd

# OFFER to provide DESIGN RELATED SERVICES

**DESIGN RELATED SERVICES OFFER**

| | | |
|---|---|---|
| **Premises address:** | **WATERLOO NORTH DEVELOPMENT - BUILDING 1A BOTANY ROAD, WATERLOO 2017** | |
| **NMI - Number:** | **TBA** | **Webform Ref 2035907** |
| **MC Reference:** | **1900143669** | **AP Reference: 800739253** |
| This offer is made on | 2/07/2025 | |

By *Ausgrid* of 24 Campbell St, Haymarket NSW 2000.

To the ***connection applicant*** named in the *connection application* received on 30/06/2025 in respect of the *premises* referred to above.

Ausgrid has determined that network alterations are required to connect your development and we cannot proceed to a connection offer at this stage. To enable Ausgrid to further consider and process your application you will need to develop a network design that can be certified as Ready for Construction (RFC) and be provided an RFC number. Your application remains technically incomplete until you have been issued an RFC number.

This Design Related Services Offer provides guidance on how to develop a design that can be certified as Ready for Construction.

**Scope of Network Alterations**

Ausgrid has determined that the following works are likely to be required:

- Installation of a 3 X 1500kVA TX surface chamber type substation.

These works are classified as contestable, which means that you are required to fund the design and some or all of the construction works. If you have not already done so, you will need to engage and manage suitably qualified contractors, known as Accredited Service Providers (ASPs) to undertake the design and construction.

Initially, your ASP Level 3 (ASP/3) will undertake the design, and then your ASP Level 1 (ASP/1) will undertake construction in accordance with the design and Ausgrid's policies and standards. The timeframe for the works will vary depending on factors such as the complexity and the way in which you manage your ASP's.

Once the works have been satisfactorily completed and electrified, the premises connection assets will be owned and maintained by Ausgrid as part of the electricity distribution network.

**Contract for Design Related Services**

**This letter is an offer for the Customer to enter into a Contract for Design Related Services with Ausgrid.** It remains open for acceptance for 45 business days. If the offer is accepted by the Applicant, the Applicant does so as the Customer's agent. No work will be undertaken by *Ausgrid* until a Design Contract is in place.

Please note that from 13 September 2024 the terms of our design related services offer, and its associated processes have changed. As part of the design process, we will require you to engage an ASP/3 to undertake the design process, and an ASP/1 to attend a pre-construction meeting prior to Ausgrid certifying the design as Ready for Construction.

You are encouraged to contact ASP/3's and ASP/1's to understand the likely overall costs you will incur for design and construction before you accept and commit to the Contract for Design Related Services.

**IMPORTANT**: The contractual arrangements provide the framework for a design to be prepared by your ASP/3, and NOT by *Ausgrid*. *Ausgrid's* fees as outlined below are for the design related network services we provide during the design phase and are **IN ADDITION** to the fees charged by your ASP/3 in preparing the design.

**Acceptance Fees**

The acceptance fees relating to the Contract for Design Related Services are outlined in the attached Acceptance Fee Summary and also detailed on the Ausgrid Portal page. *Ausgrid* will invoice **the Customer** once we receive acceptance via the Ausgrid Portal along with a Customer Details Form (attached). The Contract will commence when you pay the invoiced fee.

The acceptance fees are an estimate for the *Ausgrid* services required and are payable up front by the **Customer**. Further fees may apply for any additional services required and these will be quoted via the Ausgrid Portal on each occasion.

*Ausgrid's* published rates for our services are amended from time to time in our Alternative Control Services Fee Schedule Publication, and in accordance with the Contract, *Ausgrid* reserves the right to charge the rates that are applicable at the time the service is provided.

Fees for *Ausgrid's* services are in addition to the design and construction costs charged by your ASP's, and some fees may not be refundable if the service has already been provided. Fees and rates are set by the Australian Energy Regulator.

**WHAT TO DO NEXT**

- To move ahead, please accept the offer (see below) outlined in this document and then have the **Customer** pay the invoice that will be forwarded
- **Complete and forward the Customer Details Form**
- Engage an ASP Level 3 designer
    - On the Ausgrid Portal, nominate the ASP/3 as the designer for this project
    - Advise the ASP/3 that the Design Information Category for this project is **Standard**

**Enquiries**: connections.technical.enquiries@ausgrid.com.au

**Enclosures:**

Contract terms – via website at:
https://ausgrid.com.au/CDRS.

Customer Details Form – via website at
https://ausgrid.com.au/customerdetailsform

Acceptance Fee Summary – attached

**PLEASE REVIEW THE OFFER OUTLINED IN THIS LETTER, ALONG WITH THE TERMS LINKED ABOVE, THEN PROCEED TO THE AUSGRID PORTAL**

**IF YOU WISH TO ACCEPT THIS OFFER**

SELECT "ACCEPT" AGAINST THE OFFER ON THE AUSGRID PORTAL WITHIN 45 BUSINESS DAYS

RETURN THE CUSTOMER DETAILS FORM BY EMAIL TO contestability@ausgrid.com.au

**IF YOU WISH TO DECLINE THE OFFER**

SELECT "DECLINE" AGAINST THE OFFER ON THE AUSGRID PORTAL.

Should you wish to proceed in the future, a new connection application will need to be lodged.

**DESIGN RELATED SERVICES OFFER**

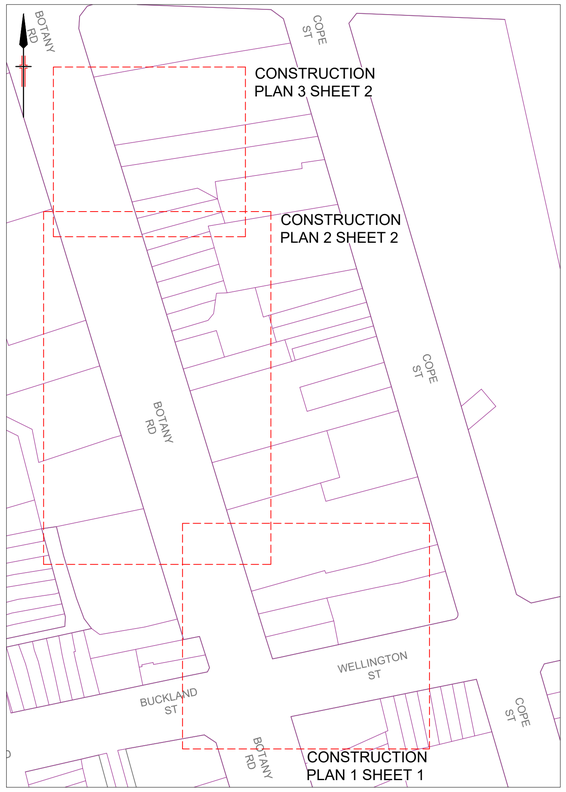
**ACCEPTANCE FEE SUMMARY**

| Service Description | Unit | Quantity | Price per unit | Total Price |
|---|---|---|---|---|
| Design Information - Standard | Hour | 12.00000 | $258.87 | $3,106.44 |
| Administration of Contestable Works - General - Design | Service | 1.00000 | $281.49 | $281.49 |
| Process and project facilitation (R3) | Hour | 3.00000 | $258.87 | $776.61 |
| Network Compliance Activities - Level 1 ASP works (R2) | Hour | 3.00000 | $198.81 | $596.43 |
| Design Certification - Other - R3 | Hour | 40.00000 | $258.87 | $10,354.80 |
| **SUBTOTAL** | | | | $15,115.77 |
| **GST (10%)** | | | | $1,511.58 |
| **TOTAL** | | | | $16,627.35 |

These fees are an **initial estimate** for the services we will require to provide throughout the design contract and are payable up front by the **Customer**, on acceptance of the contract.

**IMPORTANT**: **Additional** services may be required through the course of the design contract (e.g. asset number requests, specialist services, consultancy services). The fee for such services will be billed to the **Customer** in accordance with the contract and are payable prior to design being certified as Ready for Construction. Typical examples include, but are not limited to, fees for asset creation, additional certification effort and requests to vary network standards.

TO AVOID DELAYS, DON'T FORGET TO RETURN A COPY OF THE COMPLETED **CUSTOMER DETAILS FORM** TO AUSGRID (contestability@ausgrid.com.au)




## LOCALITY MAP

SCALE 1 : 1000

0 40 80 METRES

20 60 100

## LEGEND

| | PROPOSED | EXISTING | | PROPOSED | EXISTING |
|---|---|---|---|---|---|
| Pole | ○ | ● | Item to be Removed | x | |
| SL Standard | ▣ | ▣ | Pole-to be removed | | ● |
| SL Column Remove | | ▣ | Pillar-to be removed | | ■ |
| LV Pillar | □ | ■ | | | |
| LV Link Pillar | ⊠ | ⊠ | USL | ▯▯ | ▮▮ |
| Streetlight | ⬭ | ⬭ | ABS | ◁ | ◀ |
| Streetlight-PEC | ⬭ | ⬭ | IDT | ▯ | ▮ |
| Streetlight-replacement | | ⬭ | Kiosk Sub | ▭ | ▬ |
| Streetlight-remove | | ★ | Chamber Sub | ▭ | ▬ |
| UGOH or Riser | ○ | ● | Sealed End | ◁ | ◀ |
| Pot End | ◥ | ◀ | Cable Termination | ◁ | ◀ |
| Joint | ⬭ | ⬬ | Service cable | ○ | ● |
| HV cable | ○ | ● | Auxiliary cable | ○ | ● |
| HV Triplex | ⁂ | ⁂ | Cable to be removed | | ✕ |
| LV cable | ○ | ● | Open Point | 0 | 0 |
| SL cable | ○ | ● | PEC | ☆ | ★ |
| Conduit | ◯ | | 4-WAY LINK BOX | ▭ | |

| | PROPOSED | EXISTING | REMOVE |
|---|---|---|---|
| Conduit | ▨ | ▭ | |

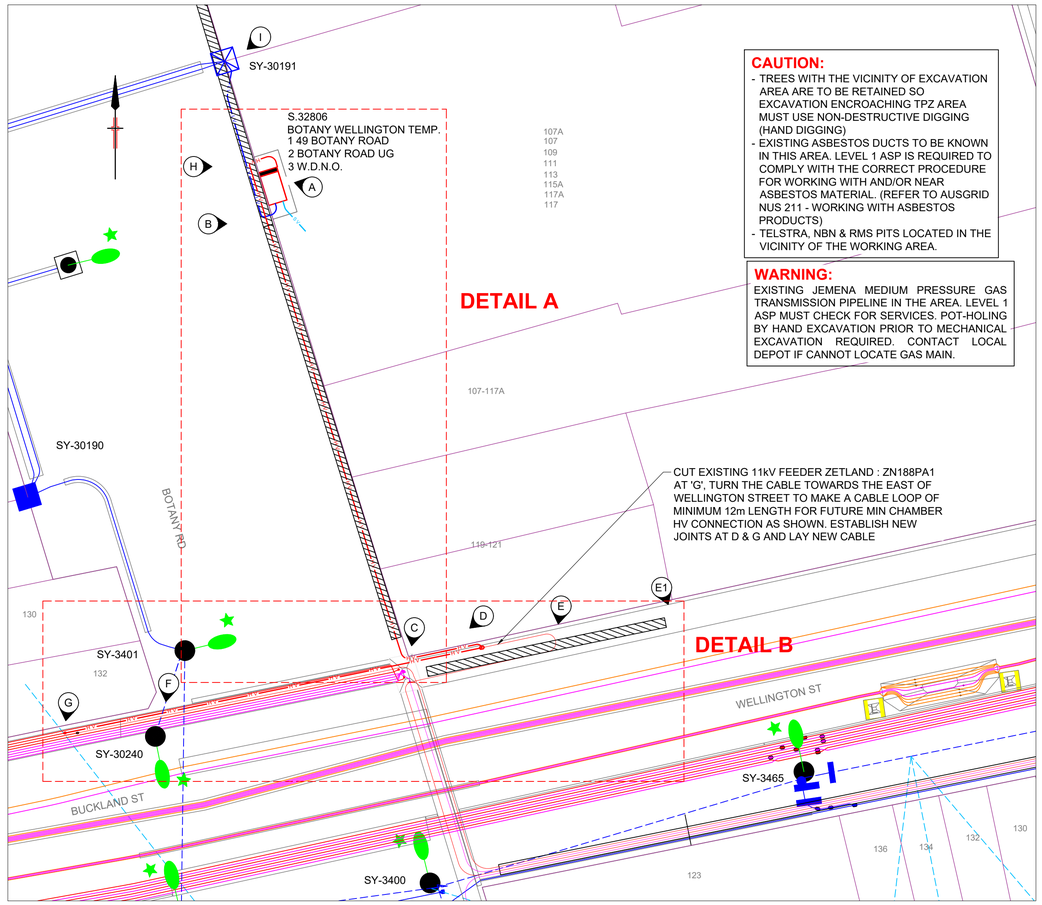
| OH Lines | UG Cables | OH Lines | UG Cables | OH Lines |
|---|---|---|---|---|
| HV | HV | | | x |
| LV | LV | | | x |
| SL | SL | | | x |
| SV | SV | | | x |
| TR132 | TR132 | | | x |
| TR33 | TR33 | | | x |
| AUX | AUX | | | x |

APPROXIMATE REINSTATEMENT DETAILS. ASP1 SHOULD VERIFY BEFORE CONSTRUCTION

| SURFACE TYPE | LENGTH/m | WIDTH/m | APPROX. REINSTATMENT AREA/m2 |
|---|---|---|---|
| FINISHED FOOTPATH SURFACE | 201 | 0.8 | 160.800 |
| FINISHED ROAD SURFACE | | | |

## NOTE

THIS PROJECT ASSUMES COMPLETION OF FOLLOWING:
AN-21031 RELOCATION OF HV MAINS BOTANY ROAD WATERLOO
AN-21032 RELOCATION OF LV MAINS BOTANY ROAD WATERLOO




## CONSTRUCTION PLAN 1

SCALE 1 : 250

0 5 15 METRES 25

10 20

## NOTES:

1. CLAIMS FOR VARIATIONS TO THE COST OF NON-CONTESTABLE WORKS, INCLUDING ROCK EXCAVATION, WILL NOT BE ACCEPTED UNLESS VERIFIED ON SITE BY AUSGRID WHILE THE WORKS ARE IN PROGRESS.
2. THE ASP/1 IS RESPONSIBLE FOR UNDERTAKING SATISFACTORY CONSULTATION WITH ALL LOCAL CUSTOMERS WHO MAY POTENTIALLY BE AFFECTED BY THE CONSTRUCTION WORKS INCLUDING ALL ALTERATIONS TO SERVICE MAINS.
3. THE ASP/1 MUST MINIMISE THE IMPACT OF THE WORKS ON THE ELECTRICITY SUPPLY TO CUSTOMERS AND INTERRUPTIONS TO SUPPLY MUST BE AVOIDED, WHERE POSSIBLE. UNLESS THE ASP/1 CAN PROVIDE AUSGRID WITH WRITTEN AGREEMENT FROM THE AFFECTED CUSTOMER(S), THEN AUSGRID MAY REQUIRE THE ASP/1 TO PROVIDE A GENERATOR(S) IN ORDER TO MAINTAIN SUPPLY TO CUSTOMERS BEING INTERRUPTED. WHERE INTERRUPTIONS ARE PERMITTED, AT LEAST FOUR (4) WORKING DAYS NOTICE MUST BE PROVIDED TO ALL AFFECTED CUSTOMERS PRIOR TO ANY PLANNED INTERRUPTIONS TO THE ELECTRICITY SUPPLY. NOTICE MUST BE IN WRITING IN ACCORDANCE WITH CLAUSE 12 OF THE AUSGRID STANDARD FORM CUSTOMER CONNECTION CONTRACT.
4. SPECIFIC PRIOR APPROVAL MUST BE SOUGHT FROM AUSGRID FOR ANY PLANNED ELECTRICITY SUPPLY INTERRUPTIONS WHERE THE PLANNED INTERRUPTION WILL EXCEED ONE (1) HOUR IN DURATION OR THE DURATION WILL BE LESS THAN ONE HOUR, BUT A SUITABLE TIME FOR THE INTERRUPTION CANNOT BE MUTUALLY AGREED TO WITH THE AFFECTED CUSTOMER(S).
5. THE ASP/1 IS TO MAINTAIN ADEQUATE PUBLIC LIGHTING LEVELS FOR THE DURATION OF THE WORKS. IF NECESSARY, THE ASP/1 IS TO ARRANGE FOR SUITABLE TEMPORARY STREET LIGHTING TO BE PROVIDED UNTIL PERMANENT LIGHTING IS RE-ESTABLISHED.
6. THE ASP/1 IS REQUIRE TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL (REFER TO AUSGRID NUS211 - WORKING WITH ASBESTOS PRODUCTS).
7. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO SURVEY AND PEG ALL SERVICES.
8. TESTING AND COMMISSIONING MUST COMPLY WITH THE AUSGRID STANDARD ES10, AND THE COMPLIANCE OFFICERS REQUIREMENTS.
9. WHERE AUSGRID AGREE TO THE USE OF SPARE CONDUITS, THE ASP/1 MUST VERIFY THAT THE DEPTH OF COVER OVER THE ENTIRE LENGTH COMPLIES WITH CURRENT AUSGRID NETWORK STANDARDS. EXISTING AUSGRID SPARE CONDUITS ARE DETERMINED FROM PLANS ONLY AND AUSGRID IN NO AY WARRANTS OR GUARANTEES THAT APPARENTLY SPARE CONDUITS ARE AVAILABLE FOR USE OR ARE FIT FOR THE DESIGNER'S INTENDED PURPOSE. SUCH CONDUITS MAY HAVE ALREADY BEEN USED AND THE PLANS NOT UPDATED, OR THE CONDUITS MAY HAVE BEEN DAMAGED, MAY HAVE INSUFFICIENT COVER OR FOR ANY OTHER REASON MAY BE UNAVAILABLE OR UNUSABLE. IN SUCH A CASE AUSGRID SHALL NOT BE RESPONSIBLE TO ANY PARTY(IES) FOR DELAYS, ADDITIONAL COSTS OR PENALTIES.
10. THIS INFORMATION INCLUDES DATA FROM THE NSW DIGITAL CADASTRAL DATABASE BY LAND AND PROPERTY INFORMATION © 2016, USED UNDER CREATIVE COMMONS LICENCE VERSION 4.0.
11. ALL WORKS TO COMPLY WITH AUSGRID NETWORK STANDARDS, UNLESS NETWORK STANDARD VARIATION IN ACCORDANCE WITH NS181 HAS BEEN APPROVED IN WRITING BY AUSGRID. IN THE EVENT OF A DISCREPANCY BETWEEN THIS CERTIFIED DESIGN AND AUSGRID'S NETWORK STANDARDS, THE NETWORK STANDARD REQUIREMENTS SHALL PREVAIL
12. FOR IDENTIFICATION AND JOINTING PURPOSES, ALL CABLE ENDS SHALL BE LABELLED AT THE TERMINATION LOCATIONS AND IN JOINT BAYS DURING CABLE INSTALLATION. THE CABLES MUST BE LABELLED AS PER CERTIFIED DESIGN DRAWING.

DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN ON THESE DRAWINGS ARE ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON SITE PRIOR TO TENDERING AND CONSTRUCTION.

## WARNING:

1. CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING – phone Dial-Before-YouDig on TELEPHONE 1100 OR AT WWW.1100.COM.AU
2. THIS DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
3. THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES (INCLUDING AUSGRID'S NETWORK) MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCES BY CONTACTING DIAL-BEFORE-YOU-DIG BY TELEPHONE ON 1100 OR AT www.1100.com.au.
4. DIAL-BEFORE-YOU-DIG INFORMATION MUST BE CURRENT, AS INDICATED BY THE VALIDITY DATES ON THE DIAL-BEFORE-YOU-DIG INFORMATION, AT THE TIME OF CONSTRUCTION.

## ASP LEVEL 2 WORK

ALL LEVEL 2 ASP WORK DEPICTED ON THIS DRAWING IS SHOWN FOR INFORMATION PURPOSES ONLY AND DOES NOT FORM PART OF THE CERTIFIED DESIGN. THERE ARE ASSOCIATED SERVICES REQUIRED TO BE REINSTATED UNDER THIS PROJECT. LEVEL 1 ASP TO ASCERTAIN AND ACCOUNT FOR THESE SERVICES IN ASSOCIATION WITH THE ASP L1 WORK

## MATERIALS USED IN CONSTRUCTION:

ALL MATERIALS INCLUDING (BUT NOT LIMITED TO) CABLES, CABLE COVERS, CONDUITS AND SUBSTATION EQUIPMENT ETC MUST BE "APPROVED MATERIALS" IN ACCORDANCE WITH AUSGRID'S POLICIES AND NETWORK STANDARDS. THESE MATERIALS MAY BE PURCHASED FROM SUPPLIERS SATISFYING AUSGRID'S QUALITY ASSURANCE REQUIREMENTS OR PURCHASED THROUGH AUSGRID. FOR QUOTATIONS ON MATERIALS PURCHASED THROUGH AUSGRID CONTACT THE ADMINISTRATION OFFICER - PROCUREMENT ON TELEPHONE 9394 6045

1. CONTRACTOR TO PROVIDE TRENCH COVERS TO MAINTAIN ACCESS.
2. TEMPORARY FENCING TO BE PROVIDED DURING CONSTRUCTION PERIOD.
3. A SAFE MARKED PATHWAY MUST BE PROVIDED AROUND EXCAVATION WORKS.
4. CLEAN UP SITE AT COMPLETION OF ALL WORK.
5. UNDERTAKE ALL ANCILLARY WORKS AS REQUIRED BY AUSGRID
6. UNDERTAKE ALL TESTING AND COMMISSIONING
7. PAY ALL AUSGRID FEES ASSOCIATED WITH CONSTRUCTION WORKS

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

**ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSGRID'S NETWORK STANDARDS.**

CAD DRAWING DO NOT AMEND MANUALLY
AMENDMENTS

| | |
|---|---|
| RELOCATION OF HV MAINS BOTANY RD WATERLOO | AN-21031 |
| RELOCATION OF LV MAINS BOTANY RD WATERLOO | AN-21032 |

ASSOCIATED DRAWINGS

wsp
ASP # 5045
Lvl 27, 680 George St, Sydney, NSW, 2000
PO Box 5394, Sydney, NSW 2001, Australia
Tel: +61 2 9272 5100 Fax: +61 2 9272 5101
www.wsp.com

ASP REF. PS119449 R2

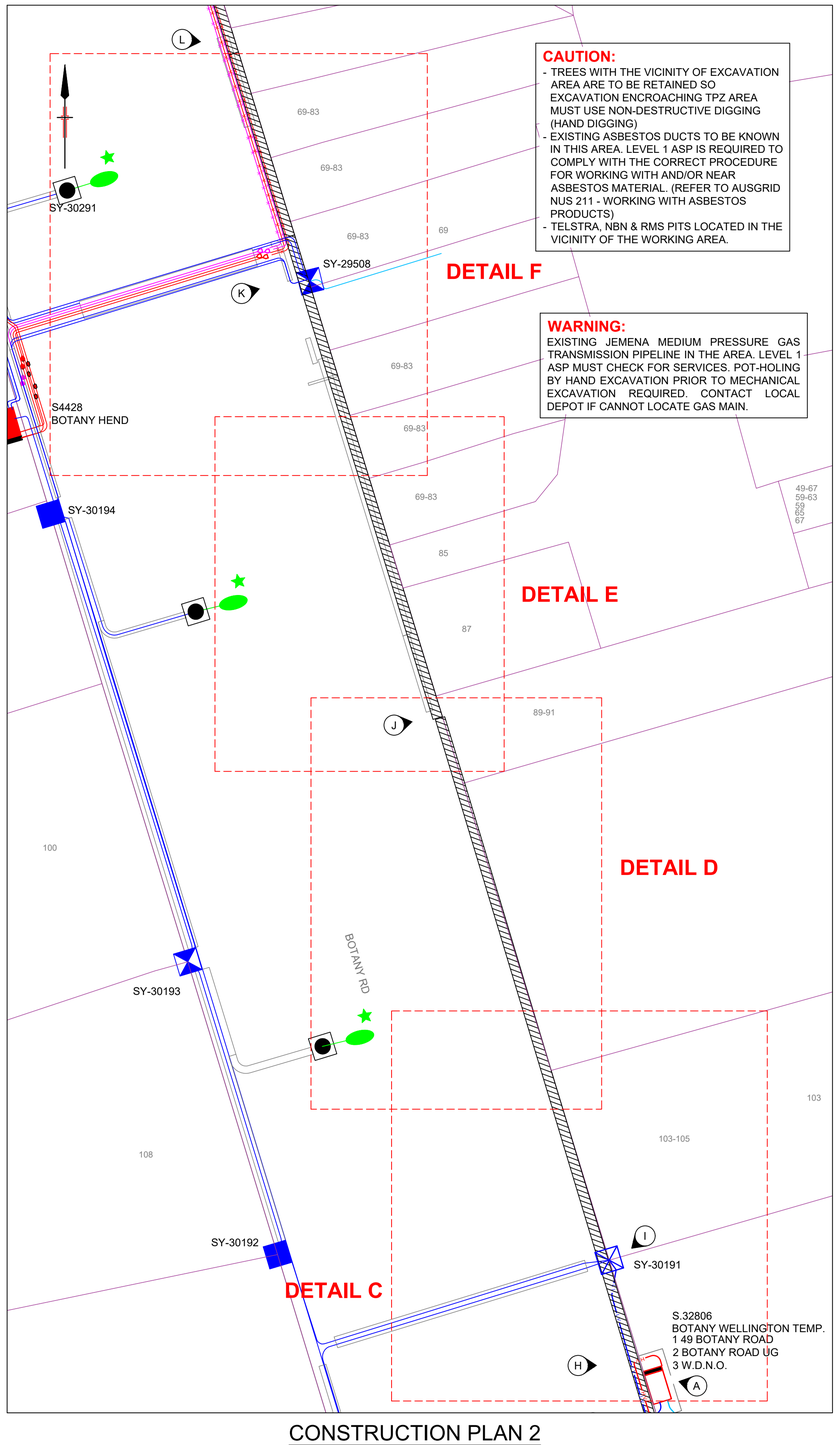
| | |
|---|---|
| DESIGNED BY | DARSHAN SHRESTHA |
| AUTH NO. | 5045/5 |
| SUBMIT DATE | SUBMITTED 31/05/2021 |
| LGA | SYDNEY |
| MAP REF. | UBD 297 H10 |
| AUSGRID REF. | AUSGRID MAP SY43 |
| PRJTRAK No. | XCZ022279 |

CERTIFICATION NUMBER 8920275/20210601

# ESTABLISH TBS KIOSK SUBSTATION S.32806 BOTANY WELLINGTON TEMP 49 BOTANY RD, WATERLOO

SIZE A1 | AUSGRID PROJECT No. AN-22074 | SHEETS 1 of 9 | AMD. 0

20160817



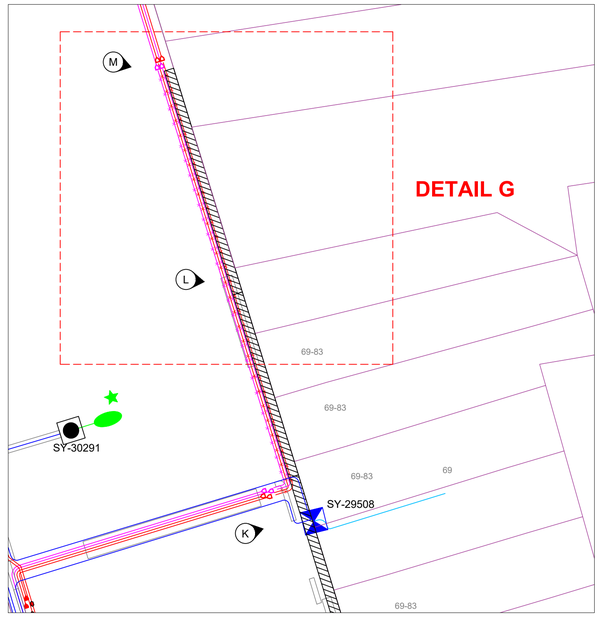

**CAUTION:**
- TREES WITH THE VICINITY OF EXCAVATION AREA ARE TO BE RETAINED SO EXCAVATION ENCROACHING TPZ AREA MUST USE NON-DESTRUCTIVE DIGGING (HAND DIGGING)
- EXISTING ASBESTOS DUCTS TO BE KNOWN IN THIS AREA. LEVEL 1 ASP IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL. (REFER TO AUSGRID NUS 211 - WORKING WITH ASBESTOS PRODUCTS)
- TELSTRA, NBN & RMS PITS LOCATED IN THE VICINITY OF THE WORKING AREA.

**WARNING:**
EXISTING JEMENA MEDIUM PRESSURE GAS TRANSMISSION PIPELINE IN THE AREA. LEVEL 1 ASP MUST CHECK FOR SERVICES. POT-HOLING BY HAND EXCAVATION PRIOR TO MECHANICAL EXCAVATION REQUIRED. CONTACT LOCAL DEPOT IF CANNOT LOCATE GAS MAIN.

## CONSTRUCTION PLAN 2

SCALE 1 : 250

0 5 10 15 20 METRES 25

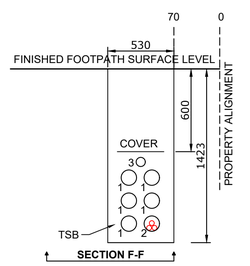



## CONSTRUCTION PLAN 3

SCALE 1 : 250

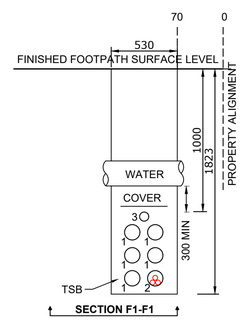
0 5 10 15 20 METRES 25

### PROPOSED TRENCH CROSS-SECTION




1 - NEW SPARE 150mm PVC CONDUIT
2 - NEW 11KV 300 CU 1 TRXQ 70CU(WS) Z YQ TX IN NEW 150mm PVC CONDUIT
3- NEW SPARE 63mm PVC CONDUIT

### PROPOSED TRENCH CROSS-SECTION

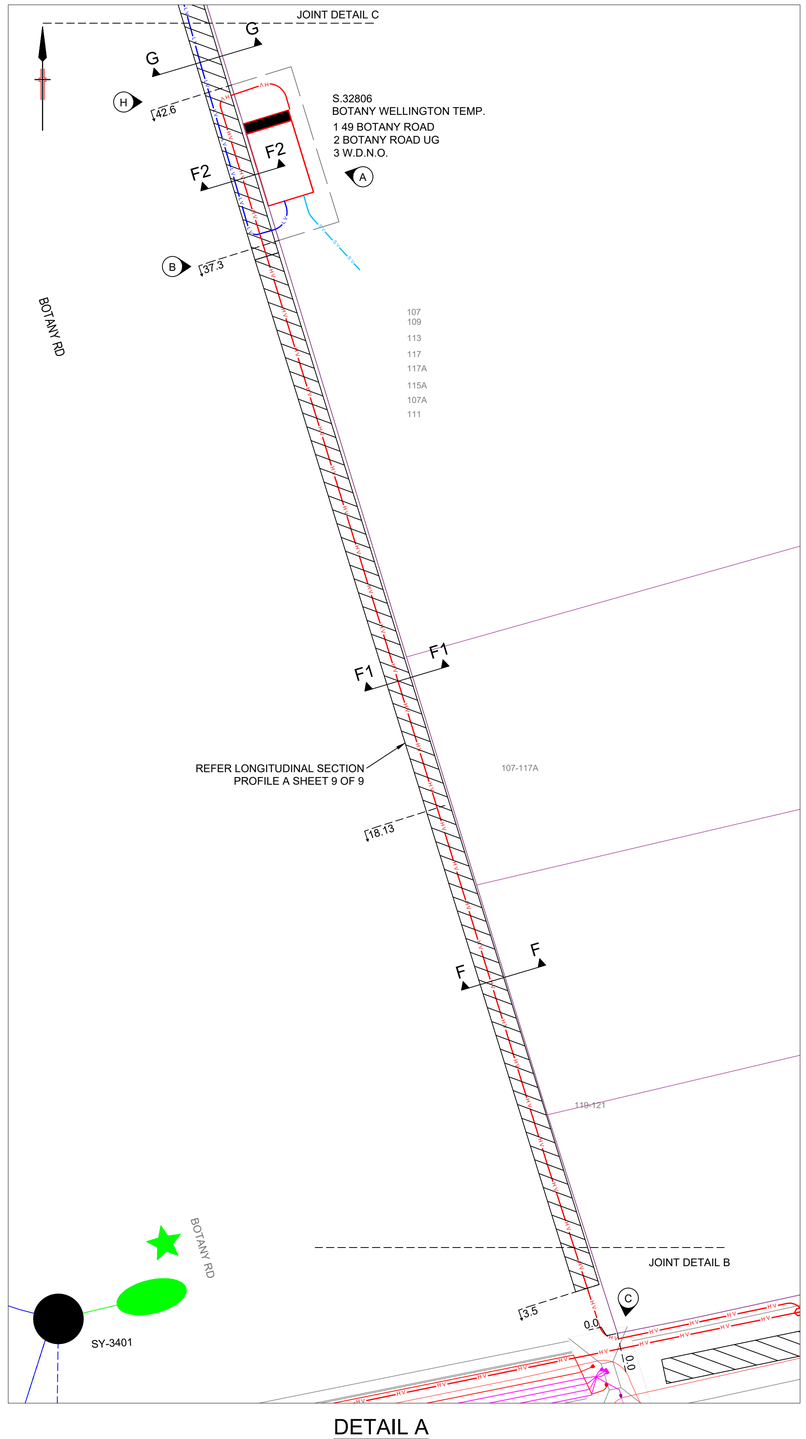



1 - NEW SPARE 150mm PVC CONDUIT
2 - NEW 11KV 300 CU 1 TRXQ 70CU(WS) Z YQ TX IN NEW 150mm PVC CONDUIT
3- NEW SPARE 63mm PVC CONDUIT

**ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSGRID'S NETWORK STANDARDS.**

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

CAUTION!
EXISTING DUCT MATERIAL IS UNKNOWN.
POTENTIAL EXPOSURE TO ASBESTOS.
LEVEL 1 ASP IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL.
(REFER TO AUSGRID NUS 211 - WORKING WITH ASBESTOS PRODUCTS).




## DETAIL A

SCALE 1 : 100

0 2 4 6 8 10 METRES

| | |
|---|---|
| RELOCATION OF HV MAINS BOTANY RD WATERLOO | AN-21031 |
| RELOCATION OF LV MAINS BOTANY RD WATERLOO | AN-21032 |

ASSOCIATED DRAWINGS


wsp
ASP # 5045
Lvl 27, 680 George St, Sydney, NSW, 2000
PO Box 5394, Sydney, NSW 2001, Australia
Tel: +61 2 9272 5100 Fax: +61 2 9272 5101
www.wsp.com


| | |
|---|---|
| ASP REF. | PS119449 R2 |
| CERTIFICATION NUMBER | 8920275/20210601 |

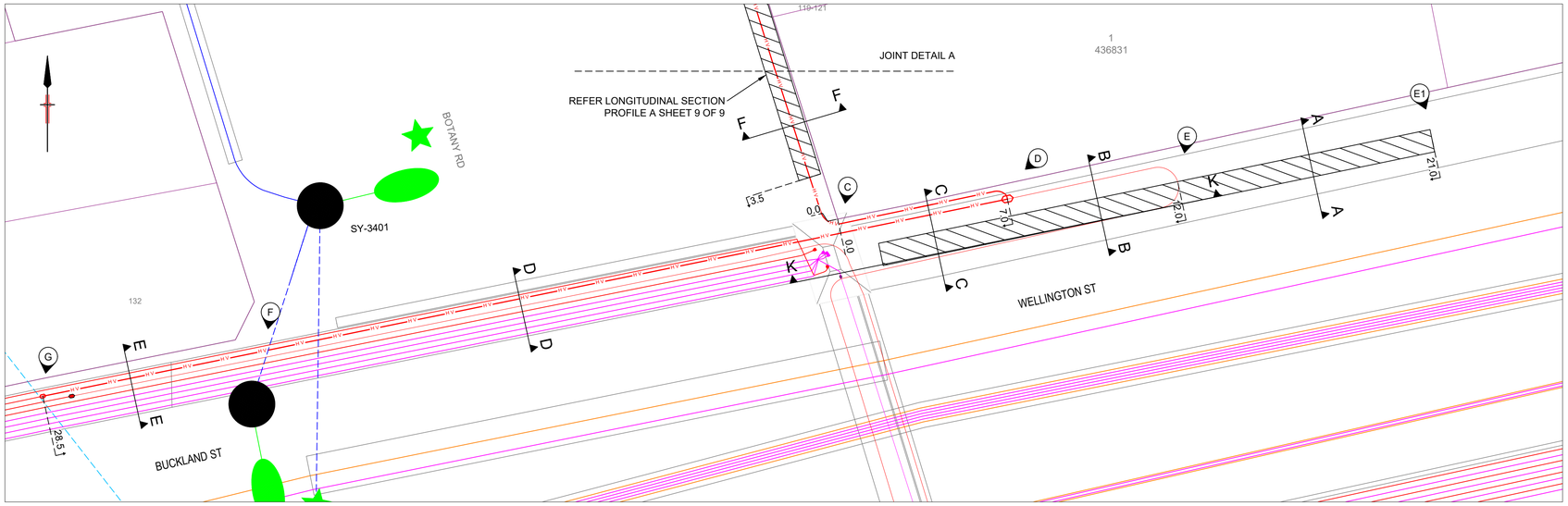
| | |
|---|---|
| DESIGNED BY | DARSHAN SHRESTHA |
| AUTH NO. | 5045/5 |
| SUBMIT DATE | SUBMITTED 31/05/2021 |
| LGA | SYDNEY |
| MAP REF. | UBD 297 H10 |
| AUSGRID REF. | AUSGRID MAP SY43 |
| PRJTRAK No. | XCZ022279 |

# ESTABLISH TBS KIOSK SUBSTATION S.32806 BOTANY WELLINGTON TEMP 49 BOTANY RD, WATERLOO

| SIZE | AUSGRID PROJECT No. | SHEETS | AMD. |
|---|---|---|---|
| A1 | AN-22074 | 2 of 9 | 0 |

CAD DRAWING DO NOT AMEND MANUALLY
AMENDMENTS

20160817




## DETAIL B

SCALE 1 : 100

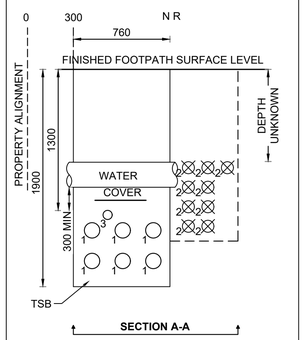
0 2 4 6 8 10 METRES

**ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSGRID'S NETWORK STANDARDS.**

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

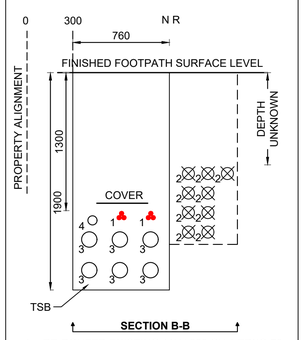
CAUTION!
EXISTING DUCT MATERIAL IS UNKNOWN.
POTENTIAL EXPOSURE TO ASBESTOS.
LEVEL 1 ASP IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL.
(REFER TO AUSGRID NUS 211 - WORKING WITH ASBESTOS PRODUCTS).

### PROPOSED TRENCH CROSS-SECTION



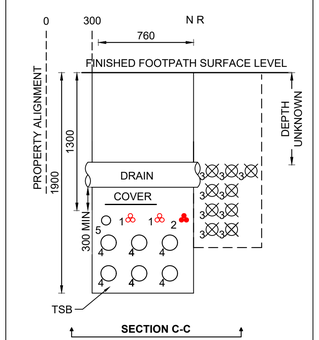

1 - NEW SPARE 150mm PVC CONDUIT
2 - REMOVE EXISTING 100mm EW CONDUIT
3- NEW SPARE 63mm PVC CONDUIT

### PROPOSED TRENCH CROSS-SECTION



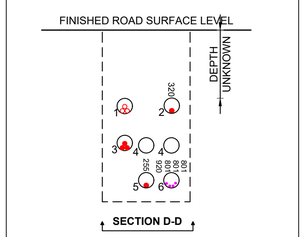

1 - RE-ROUTED EXISTING 11kV 300 CU 1 TRXQ 70 CU(WS) Z YQ TX CABLE DIRECT BURIED
2 - REMOVE EXISTING 100mm EW CONDUIT
3 - NEW SPARE 150mm PVC CONDUIT
4 - NEW SPARE 63mm PVC CONDUIT

### PROPOSED TRENCH CROSS-SECTION




1 - NEW 11kV 300 CU 1 TRXQ 70 CU(WS) Z YQ TX DIRECT BURIED
2 - RE-ROUTED EXISTING 11kV 300 CU 1 TRXQ 70 CU(WS) Z YQ TX CABLE DIRECT BURIED
3 - REMOVE EXISTING 100mm EW CONDUIT
4 - NEW SPARE 150mm PVC CONDUIT
5 - NEW SPARE 63mm PVC CONDUIT

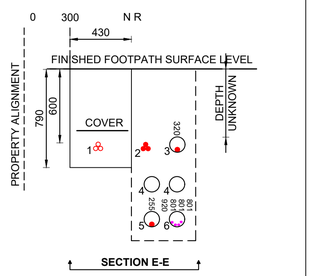
### EXISTING TRENCH CROSS-SECTION




1 - NEW 11kV 300 CU 1 TRXQ 70 CU(WS) Z YQ TX CABLE IN EXISTING 100mm EW CONDUIT
2 - EXISTING HV CABLE IN EXISTING 100mm EW CONDUIT
3 - EXISTING HV CABLE IN EXISTING 100mm EW CONDUIT
4 - EXISTING SPARE 100mm EW CONDUIT
5 - EXISTING HV CABLE IN EXISTING 100mm EW CONDUIT
6 - EXISTING AUX CABLE IN EXISTING 100mm EW CONDUIT

NOTE : ASP 1 TO IDENTIFY THE EXISTING 11kV FEEDER ZETLAND : ZN188PA1 ON SITE

### PROPOSED TRENCH CROSS-SECTION




1 - NEW 11KV 300 CU 1 TRXQ 70 CU(WS) Z YQ TX CABLE DIRECT BURIED
2 - EXISTING HV CABLE DIRECT BURIED
3 - EXISTING HV CABLE IN EXISTING 100mm EW CONDUIT
4 - EXISTING SPARE 100mm EW CONDUIT
5 - EXISTING HV CABLE IN EXISTING 100mm EW CONDUIT
6 - EXISTING AUX CABLE IN EXISTING 100MM EW CONDUIT

NOTE:

THE EXISTING CROSS SECTION ARRANGEMENT ARE AS PER ASSUMED COMPLETION OF FOLLOWING PROJECTS.
- AN-21031 RELOCATION OF HV MAINS BOTANY ROAD WATERLOO
- AN-21032 RELOCATION OF LV MAINS BOTANY ROAD WATERLOO

CAD DRAWING
AMENDMENTS

| ASSOCIATED DRAWINGS | |
|---|---|
| RELOCATION OF HV MAINS BOTANY RD WATERLOO | AN-21031 |
| RELOCATION OF LV MAINS BOTANY RD WATERLOO | AN-21032 |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CERTIFICATION NUMBER 8920275/20210601

| | |
|---|---|
| DESIGNED BY | DARSHAN SHRESTHA |
| AUTH NO. | 5045/5 |
| SUBMIT DATE | SUBMITTED 31/05/2021 |
| LGA | SYDNEY |
| MAP REF. | UBD 297 H10 |
| AUSGRID REF. | AUSGRID MAP SY43 |
| PRJTRAK No. | XCZ022279 |

# ESTABLISH TBS KIOSK SUBSTATION S.32806 BOTANY WELLINGTON TEMP 49 BOTANY RD, WATERLOO

SIZE A1 | AUSGRID PROJECT No. AN-22074 | SHEETS 3 of 9 | AMD. 0

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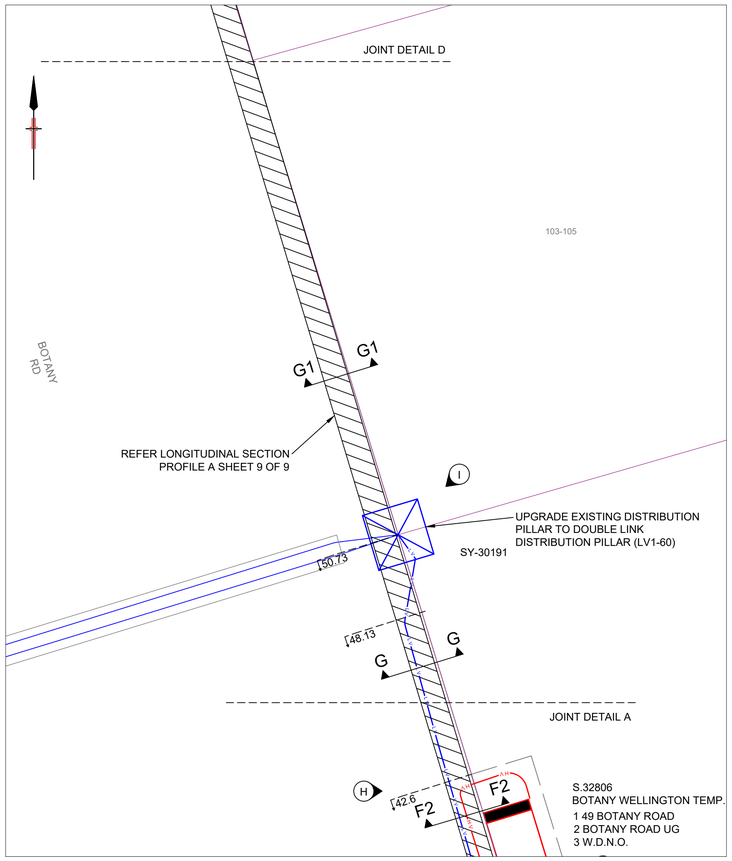
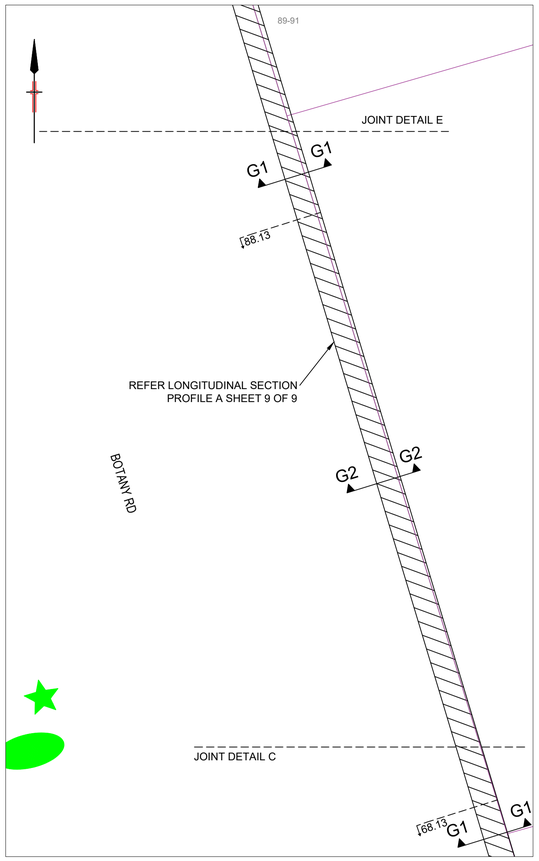
20160817




## DETAIL C

SCALE 1 : 100

0 2 4 6 8 10 METRES




## DETAIL D

SCALE 1 : 100

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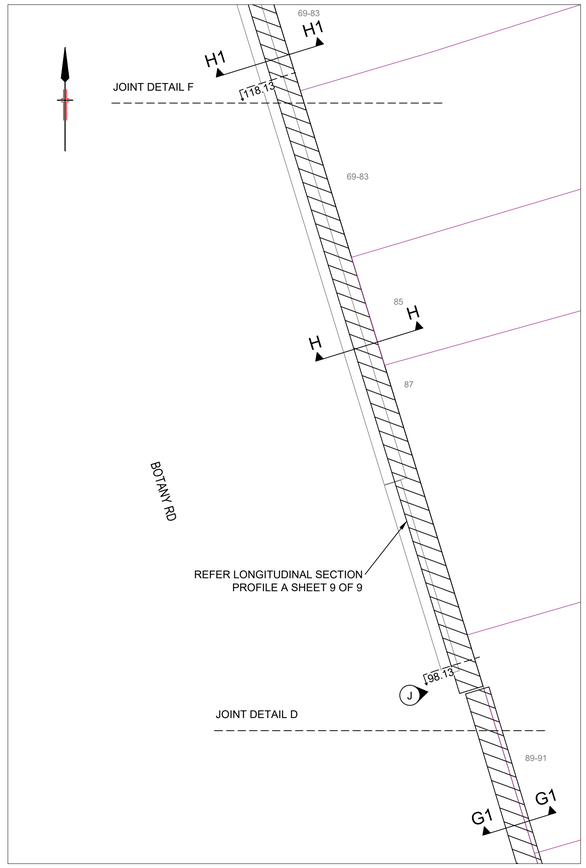


## DETAIL E

SCALE 1 : 100

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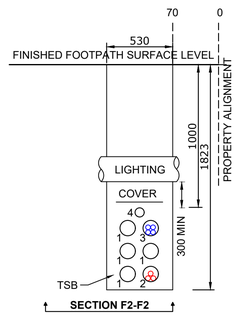
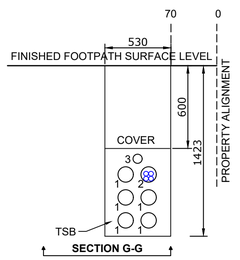
### PROPOSED TRENCH CROSS-SECTION




**SECTION F2-F2**

1 - NEW SPARE 150mm PVC CONDUIT
2 - NEW 11KV 300 CU 1 TRXQ 70CU(WS) Z YQ TX IN NEW 150mm PVC CONDUIT
3 - NEW 415V 185 CU1 XQ Z / 4 CABLE IN NEW 150mm PVC CONDUIT
4- NEW SPARE 63mm PVC CONDUIT

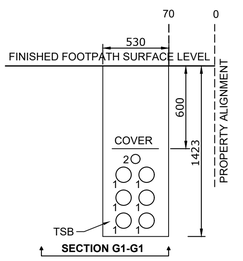
### PROPOSED TRENCH CROSS-SECTION




**SECTION G-G**

1 - NEW SPARE 150mm PVC CONDUIT
2 - NEW 415V 185 CU1 XQ Z / 4 CABLE IN NEW 150mm PVC CONDUIT
3- NEW SPARE 63mm PVC CONDUIT

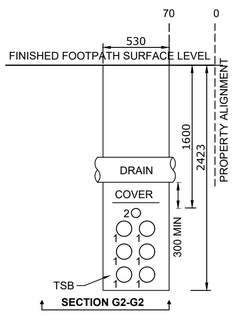
### PROPOSED TRENCH CROSS-SECTION




**SECTION G1-G1**

1 - NEW SPARE 150mm PVC CONDUIT
2 - NEW SPARE 63mm PVC CONDUIT

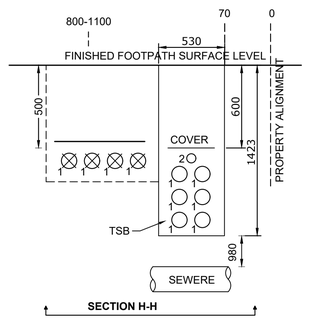
### PROPOSED TRENCH CROSS-SECTION




**SECTION G2-G2**

1 - NEW SPARE 150mm PVC CONDUIT
2 - NEW SPARE 63mm PVC CONDUIT

### PROPOSED TRENCH CROSS-SECTION




**SECTION H-H**

1 - REMOVE EXISTING SPARE 125mm PVC CONDUIT
2 - NEW SPARE 150mm UPVC CONDUIT
3 - NEW SPARE 63mm UPVC CONDUIT

NOTE:

THE EXISTING CROSS SECTION ARRANGEMENT ARE AS PER ASSUMED COMPLETION OF FOLLOWING PROJECTS.
- AN-21031 RELOCATION OF HV MAINS BOTANY ROAD WATERLOO
- AN-21032 RELOCATION OF LV MAINS BOTANY ROAD WATERLOO

**ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSGRID'S NETWORK STANDARDS.**

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

CAUTION!
EXISTING DUCT MATERIAL IS UNKNOWN.
POTENTIAL EXPOSURE TO ASBESTOS.
LEVEL 1 ASP IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL.
(REFER TO AUSGRID NUS 211 - WORKING WITH ASBESTOS PRODUCTS).

CAD DRAWING
DO NOT SCALE DRAWING
AMENDMENTS

| | |
|---|---|
| RELOCATION OF HV MAINS BOTANY RD WATERLOO | AN-21031 |
| RELOCATION OF LV MAINS BOTANY RD WATERLOO | AN-21032 |

ASSOCIATED DRAWINGS

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ASP # 5045
Lvl. 27, 680 George St, Sydney, NSW, 2000
PO Box 5394, Sydney, NSW 2001, Australia
Tel: +61 2 9272 5100 Fax: +61 2 9272 5101
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ASP REF. PS119449 R2

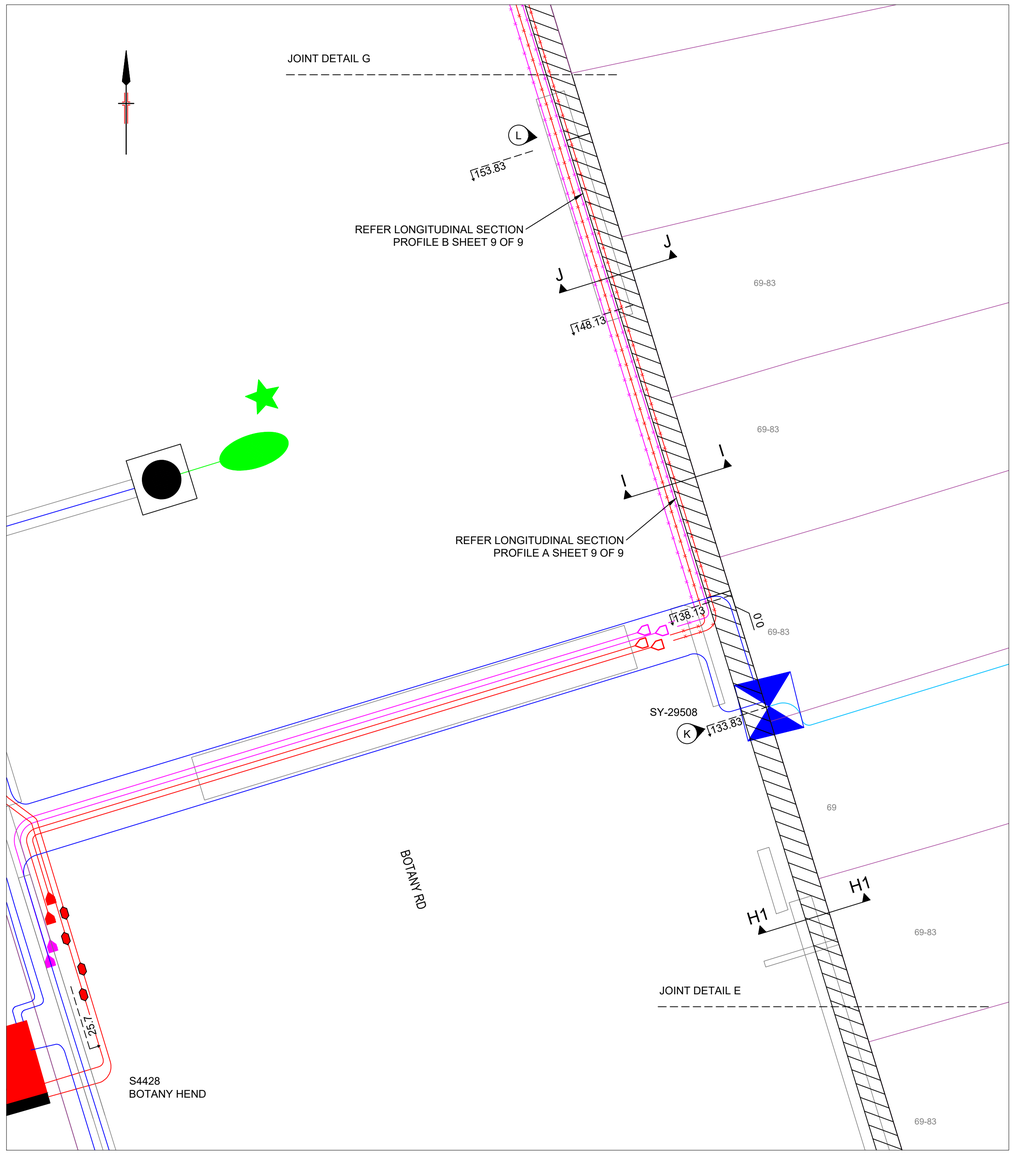
CERTIFICATION NUMBER 8920275/20210601

| | |
|---|---|
| DESIGNED BY | DARSHAN SHRESTHA |
| AUTH NO. | 5045/5 |
| SUBMIT DATE | SUBMITTED 31/05/2021 |
| LGA | SYDNEY |
| MAP REF. | UBD 297 H10 |
| AUSGRID REF. | AUSGRID MAP SY43 |
| PRJTRAK No. | XCZ022279 |

# ESTABLISH TBS KIOSK SUBSTATION S.32806 BOTANY WELLINGTON TEMP 49 BOTANY RD, WATERLOO

SIZE A1 | AUSGRID PROJECT No. AN-22074 | SHEETS 4 of 9 | AMD 0

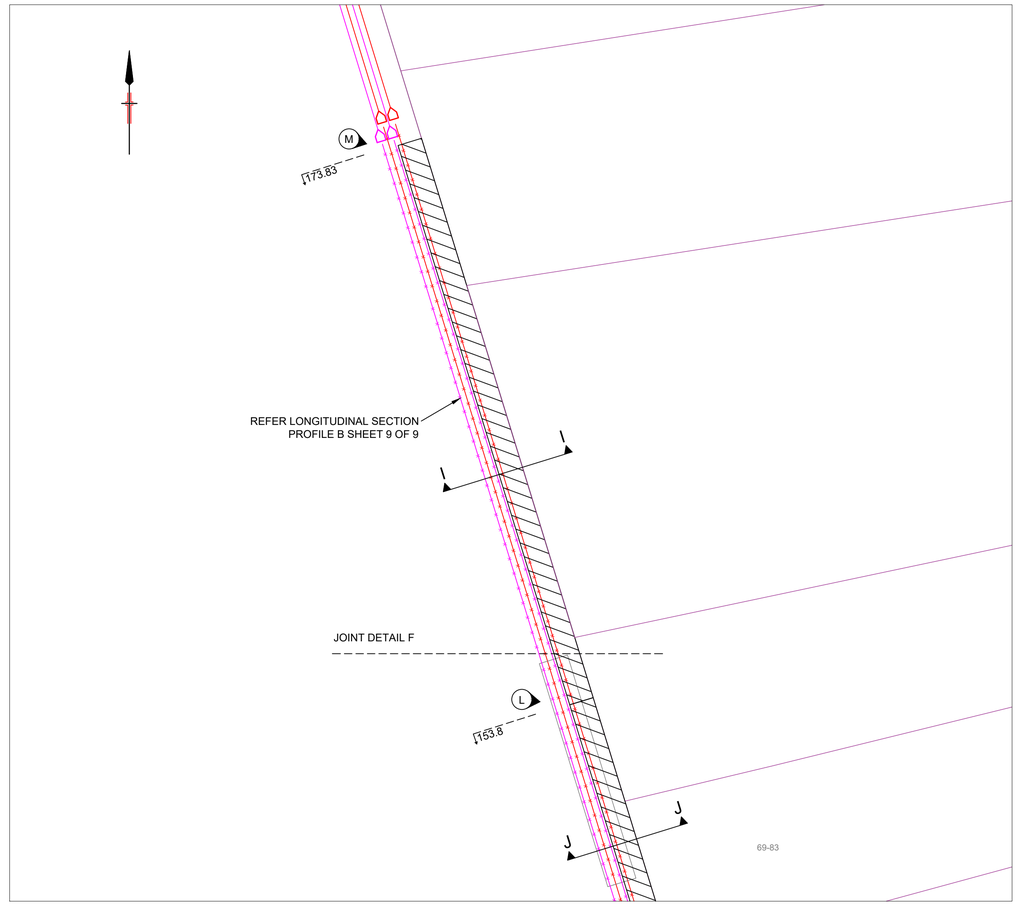
20160817




## DETAIL F

SCALE 1 : 100

0 2 4 6 8 10 METRES

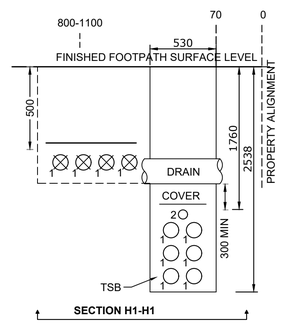



## DETAIL G

SCALE 1 : 100

0 2 4 6 8 10 METRES

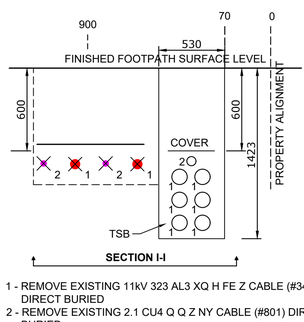
### PROPOSED TRENCH CROSS-SECTION




**SECTION H1-H1**

1 - REMOVE EXISTING SPARE 125mm PVC CONDUIT
2 - NEW SPARE 150mm UPVC CONDUIT
3 - NEW SPARE 63mm UPVC CONDUIT

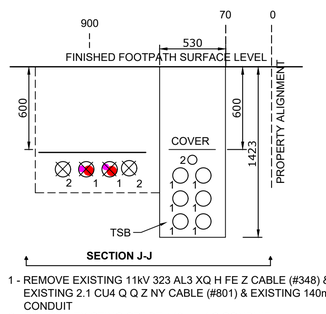
### PROPOSED TRENCH CROSS-SECTION




**SECTION I-I**

1 - REMOVE EXISTING 11kV 323 AL3 XQ H FE Z CABLE (#348) DIRECT BURIED
2 - REMOVE EXISTING 2.1 CU4 Q Q Z NY CABLE (#801) DIRECT BURIED
3 - NEW SPARE 150mm UPVC CONDUIT
4 - NEW SPARE 63mm UPVC CONDUIT

### PROPOSED TRENCH CROSS-SECTION




**SECTION J-J**

1 - REMOVE EXISTING 11kV 323 AL3 XQ H FE Z CABLE (#348) & EXISTING 2.1 CU4 Q Q Z NY CABLE (#801) & EXISTING 140mm AC CONDUIT
2 - REMOVE EXISTING SPARE 140mm AC CONDUIT
3 - NEW SPARE 150mm UPVC CONDUIT
4 - NEW SPARE 63mm UPVC CONDUIT

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

**ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSGRID'S NETWORK STANDARDS.**

CAUTION!
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POTENTIAL EXPOSURE TO ASBESTOS.
LEVEL 1 ASP IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL.
(REFER TO AUSGRID NUS 211 - WORKING WITH ASBESTOS PRODUCTS).

NOTE:

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- AN-21031 RELOCATION OF HV MAINS BOTANY ROAD WATERLOO
- AN-21032 RELOCATION OF LV MAINS BOTANY ROAD WATERLOO

CAD DRAWING
DO NOT SCALE DRAWING
AMENDMENTS

| ASSOCIATED DRAWINGS | |
|---|---|
| RELOCATION OF HV MAINS BOTANY RD WATERLOO | AN-21031 |
| RELOCATION OF LV MAINS BOTANY RD WATERLOO | AN-21032 |


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ASP REF. PS119449 R2

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| DESIGNED BY | DARSHAN SHRESTHA |
| AUTH NO. | 5045/5 |
| SUBMIT DATE | SUBMITTED 31/05/2021 |
| LGA | SYDNEY |
| MAP REF. | UBD 297 H10 |
| AUSGRID REF. | AUSGRID MAP SY43 |
| PRJTRAK No. | XCZ022279 |

CERTIFICATION NUMBER 8920275/20210601

# ESTABLISH TBS KIOSK SUBSTATION S.32806 BOTANY WELLINGTON TEMP 49 BOTANY RD, WATERLOO

SIZE A1 | AUSGRID PROJECT No. AN-22074 | SHEETS 5 of 9 | AMD. 0

20160817

## UNDERGROUND CONSTRUCTION WORKS SCHEDULE - DUCTPULL V.1.1

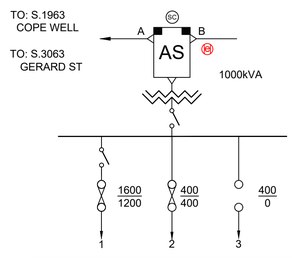
| REF. IDENTIFIER | ROUTE DISTANCE (m) | CIRCUIT VOLTAGE | CONDUCTOR OR ASSET DETAIL | CABLE CODE | MIN. INTERNAL BENDING RADIUS (mm) DURING INSTALLATION | MIN. INTERNAL BENDING RADIUS (mm) AFTER INSTALLATION | CALCULATED MAX. PULLING TENSION (kN) DURING INSTALLATION | CONSTRUCTION DETAIL |
|---|---|---|---|---|---|---|---|---|
| A | - | - | S.32806 'BOTANY WELLINGTON TEMP.' | - | - | - | - | CONSTRUCT(4) REINFORCED CONCRETE PIERS AS PER STANDARD AUSGRID LAYOUT DRAWING 151572 SITE PLAN B.<br>ESTABLISH STANDARD L-TYPE KIOSK SUBSTATION. SUBSTATION STOCKCODE 178282. THE SUBSTATION TO BE INSTALLED AS PER STANDARD DRAWING 242582 (SCHNEIDER) AND ALTERNATIVELY 234382 (WILSON).<br>INSTALL AND CONNECT EARTHING RODS AND INTERCONNECTING CABLING AS PER NETWORK STANDARD NS116 FOR STANDARD MINIMUM EARTHING (SME) ARRANGEMENT AND DETAILED EARTHING LAYOUT.<br>TERMINATE 1 SET OF 11KV 300 CU 1 TRXQ 70 CU(WS) Z YQ / TX AT HV SWITCH GEAR RM6 (HV 1-54)<br>TERMINATE 1 SET OF 415V 185 CU1 XQ Z / 4 CABLE AT LV DISTRIBUTOR PANEL NO. 2 FOR INTERCONNECTION<br>TERMINATE CUSTOMER MAINS TO THE SUBSTATION LV PANEL. CUSTOMER ELECTRICAL CONTRACTOR TO PROVIDE CONSUMER MAINS COILED AT THE POINT OF ENTRY TO THE SUBSTATION WITH SUFFICIENT LENGTH TO ALLOW FOR THIS CONNECTION<br>PREPARE FINAL SURVEY PLAN FOR THE SUBSTATION EASEMENT (TO BE COMPLETED BY PRACTICING CERTIFIED SURVEYOR) IN LINE WITH EASEMENT PLAN. |
| A - D | 49.6 | HV | 11KV 300 CU 1 TRXQ 70CU(WS) Z YQ TX | 111 | 1275 (BUNDLE)<br>960 (PHASE) | 850 (BUNDLE)<br>575 (PHASE) | 8.760 | PULL CABLE BETWEEN HV JOINT AT REF 'D' TO SUBSTATION S.32806 AT REF 'A' AS PER TRENCH CROSS SECTION C-C, F-F, F1-F1 AND F2-F2 |
| C - M | 170.3 | - | 6 x 150mm + 1 x 63mm UPVC CONDUITS | - | - | - | - | EXCAVATE, REMOVE EXISTING DUCTS AND INSTALL CONDUITS BETWEEN REF 'C' AND REF 'M', AS PER TRENCH CROSS SECTION F-F, F1-F1, F2-F2, G-G, G1-G1, G2-G2, H-H, H1-H1, I-I AND J-J |
| C - E1 | 21.0 | - | 6 x 150mm + 1 x 63mm UPVC CONDUITS | - | - | - | - | EXCAVATE, REMOVE EXISTING DUCTS, CAP BOTH ENDS AND INSTALL CONDUITS BETWEEN REF 'C' AND REF 'E1', AS PER TRENCH CROSS SECTION A-A, B-B AND C-C. |
| D - G | 35.5 | HV | 11KV 300 CU 1 TRXQ 70CU(WS) Z YQ TX | 111 | 1275 (BUNDLE)<br>960 (PHASE) | 850 (BUNDLE)<br>575 (PHASE) | 0.230 | LAY CABLE BETWEEN HV JOINT AT REF 'D' TO HV JOINT AT REF 'G', AS PER TRENCH CROSS SECTION C - C, D - D AND E-E |
| D | - | HV | HV JOINT (HV3-40) | - | - | - | - | EXCAVATE AND LOCATE THE EXISTING 11kV FEEDER ZETLAND : ZN188PA1 300 CU 1 TRXQ 70CU(WS) Z YQ TX, CUT AT REF 'G' AND TURN THE CABLE AS PER SITE PLAN. ESTABLISH TEE JOINT AT REF 'D' BETWEEN 300 CU 1 TRXQ 70CU(WS) Z YQ TX AND 300 CU 1 TRXQ 70CU(WS) Z YQ TX |
| G | - | HV | HV JOINT (HV2-21) | - | - | - | - | ESTABLISH STRAIGHT THROUGH JOINT AT REF 'G' BETWEEN 300 CU 1 TRXQ 70CU(WS) Z YQ TX AND 300 CU 1 TRXQ 70CU(WS) Z YQ TX CABLES |
| A - I | 13.5 | LV | 415V 185 CU1 XQ Z / 4 CABLE | 5044 | 270 | 180 | 1.01 | LAY CABLE BETWEEN SUBSTATION S.32806 AT REF 'A' TO PILLAR SY-30191 AT REF 'I' AS PER TRENCH CROSS SECTION G - G |
| I | - | - | DOUBLE LINK DISTRIBUTION PILLAR (LV1-60) | - | - | - | - | UPGRADE EXISTING DISTRIBUTION PILLAR TO DOUBLE LINK DISTRIBUTION PILLAR SY-30191 AT REF 'I' |
| M - K | 35.700 | HV | 2 x HV CABLE | 348 | - | - | - | CUT, SEAL CAP ENDS (STOCK CODE : 178441) AND SHORTING (STOCK CODE : 68312) AT REF 'K' & REF 'M', REMOVE REDUNDANT SECTION OF CABLE FROM REF 'K' TO REF M' |
| | | - | 2 x AUXILIARY CABLE | 801 | - | - | - | CUT AND SEAL CAP ENDS CABLE AT REF 'K' & REF 'M', REMOVE REDUNDANT SECTION OF CABLE FROM REF 'K' TO REF 'M' |

## KIOSK SUBSTATION DETAILS

| | |
|---|---|
| SUBSTATION NAME: | BOTANY WELLINGTON TEMP. |
| SUBSTATION NUMBER: | S.32806 |
| ADDRESS: | 49 BOTANY ROAD, WATERLOO |
| SUBSTATION TYPE: | KL |
| SIZE (kVA): | 1 x 1000 KVA OIL FILLED TRANSFORMER |
| VECTOR GROUP: | Dyn 1 |
| VOLTAGE RATIO: | 11000/433 |
| HV SWITCHGEAR: | ABB SAFELINK RMI (SAFELINK 2) |
| HV FUSE DETAILS: | 100amp SIBA 30.020.93.100 |
| LOAD CYCLE: | A: COMMERCIAL / INDUSTRIAL |
| PHASING DETAIL: | AUSGRID TO PERFORM STAB, ID & PHASING WORKS AS AN ANCILLARY FUNCTION |
| LOW VOLTAGE BOARD: | 1600 / 400 / 400 |
| TRANSF. LV LINK RATING: | 2000 |
| CCT1 LV FUSE SIZE (Amps): | 1200A 165mm CENTRES ALSTOM |
| CCT2 LV FUSE SIZE (Amps): | 0A |
| CCT3 LV FUSE SIZE (Amps): | 0A |
| EARTHING REQUIREMENTS: | AS PER NS116 AND STANDARD MINIMUM EARTHING (SME) ARRANGEMENT |
| SUBSTATION PIERING: | AS PER NS 141, "DRAWING 151572" |
| EASEMENT PLAN DETAIL: | AS PER AUSGRID PROPERTY RIGHTS LEASE & EASEMENT |

## KIOSK SUBSTATION S.32806 SCHEMATIC DIAGRAM PROPOSED

**S.32806**
'BOTANY WELLINGTON TEMP.'

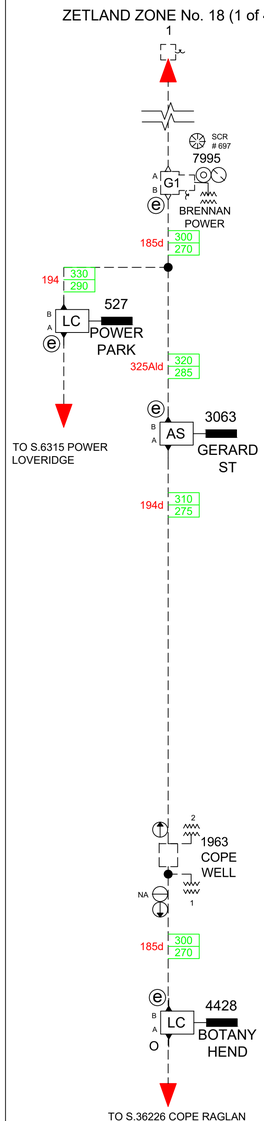



| LV DISTRIBUTOR DETAILS | |
|---|---|
| DIST | DESTINATION |
| 1 | 49 BOTANY RD (1200/1600) |
| 2 | BOTANY ROAD UG (400/400) |
| 3 | WDNO (0/400) |

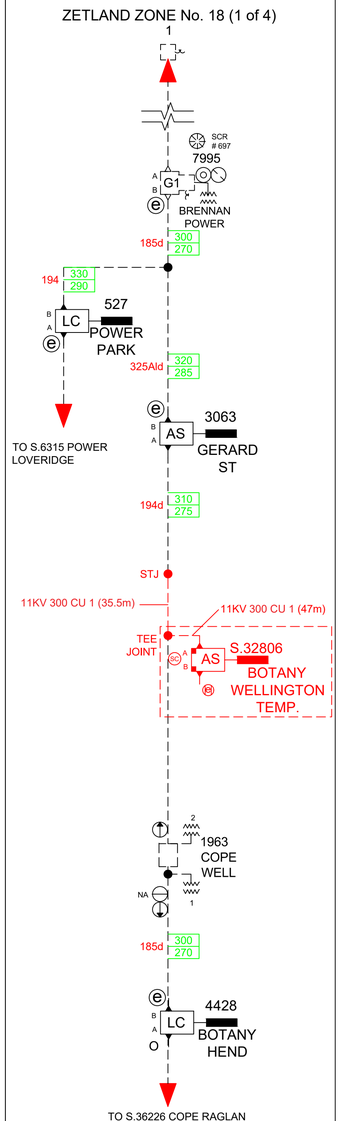
## 11kV SCHEMATIC - SYSTEM DIAGRAM

NTS

### EXISTING




### PROPOSED




CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

**ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSGRID'S NETWORK STANDARDS.**

CAD DRAWING DO NOT AMEND
AMENDMENTS

| ASSOCIATED DRAWINGS | |
|---|---|
| RELOCATION OF HV MAINS BOTANY RD WATERLOO | AN-21031 |
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| DESIGNED BY | DARSHAN SHRESTHA |
| AUTH NO. | 5045/5 |
| SUBMIT DATE | SUBMITTED 31/05/2021 |
| LGA | SYDNEY |
| MAP REF. | UBD 297 H10 |
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| PRJTRAK No. | XCZ022279 |

# ESTABLISH TBS KIOSK SUBSTATION S.32806 BOTANY WELLINGTON TEMP 49 BOTANY RD, WATERLOO

SIZE A1 | AUSGRID PROJECT No. AN-22074 | SHEETS 6 of 9 | AMD. 0

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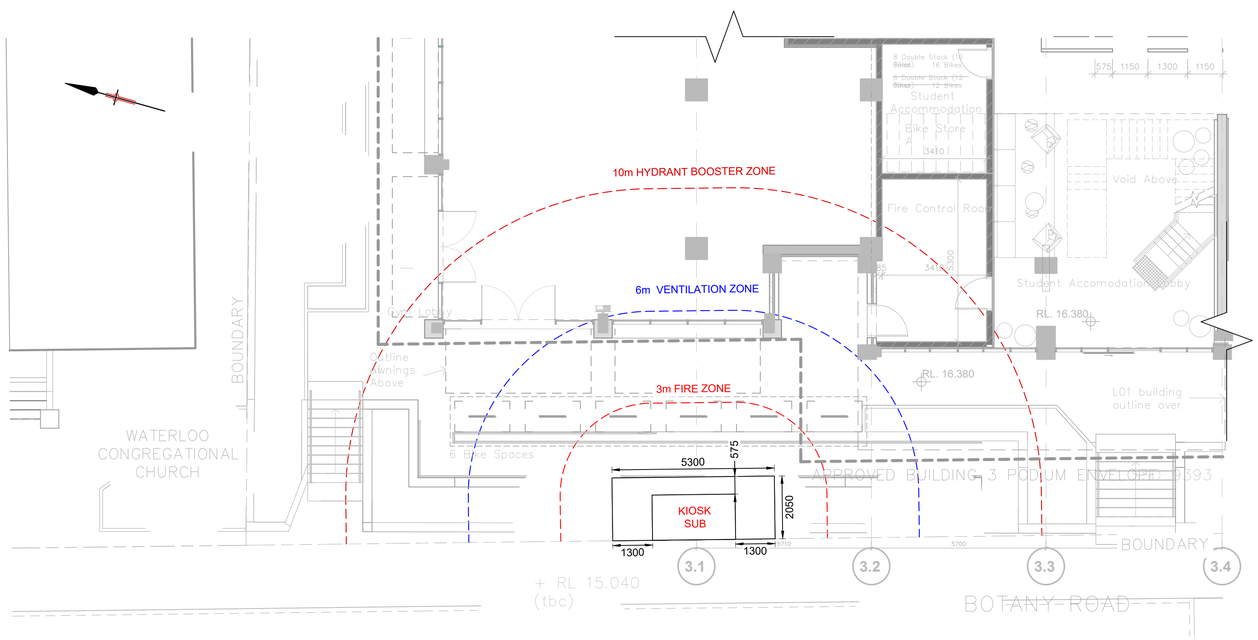
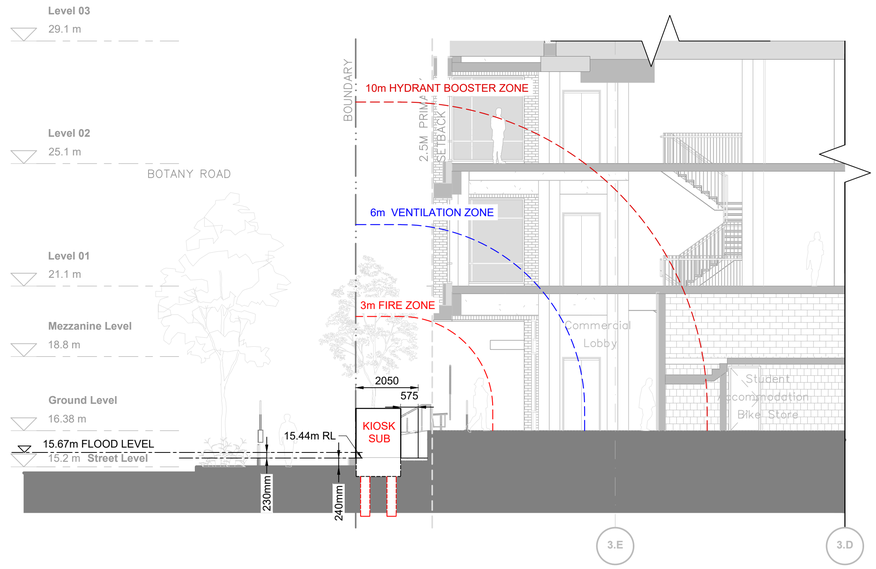



## SUBSTATION PLAN AND CLEARANCE ZONE

SCALE 1 : 100

0 2 4 6 8 10 METRES

REFER TO CLIENT DRAWING WMQ-BLD3-BSA-AR-DRG-A03.000 REV 1

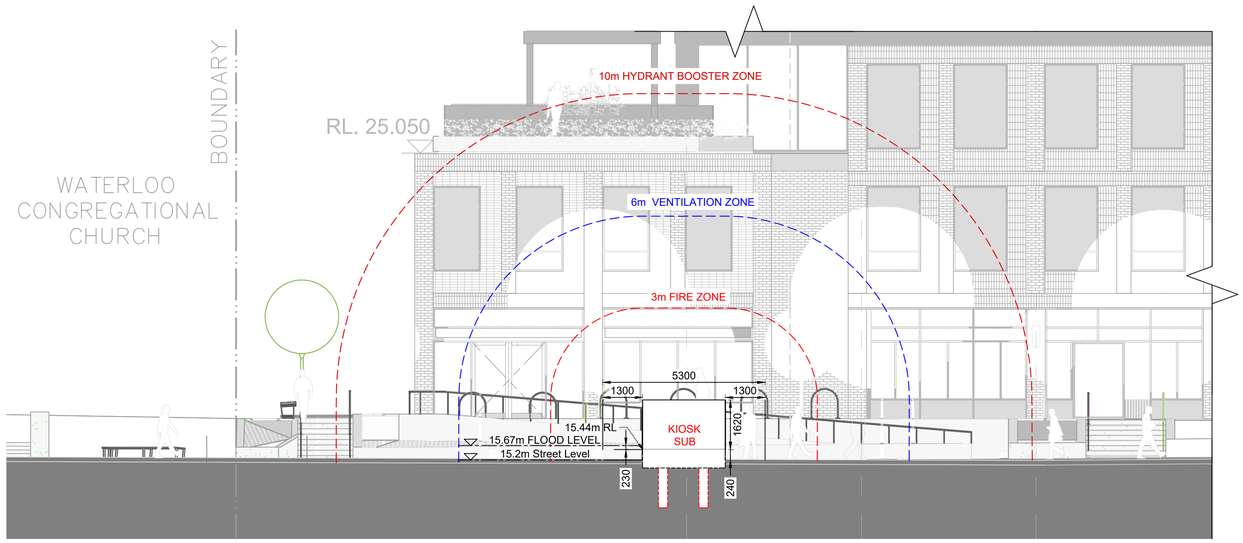



## SUBSTATION SIDE ELEVATION AND CLEARANCE ZONE

SCALE 1 : 100

0 2 4 6 8 10 METRES

REFER TO CLIENT DRAWING WMQ-BLD3-BSA-AR-DRG-A10.001 REV 1




## SUBSTATION FRONT ELEVATION AND CLEARANCE ZONE

SCALE 1 : 100

0 2 4 6 8 10 METRES

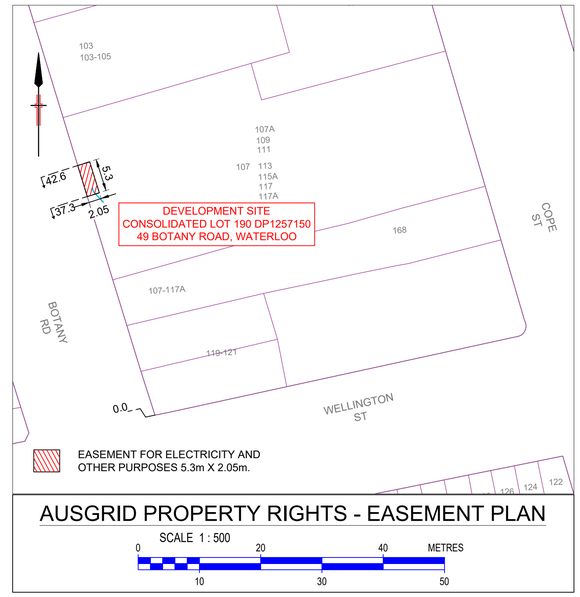
REFER TO CLIENT DRAWING WMQ-BLD3-BSA-AR-DRG-A09.004 REV 1

## NOTES

(1). ALL WALLS WITHIN 3 METRES OF THE KIOSK NEED TO BE 2 HR FIRE RATED & 2KPa BLAST PROOF.

(2). KIOSK HOUSINGS TO BE SEPARATED FROM BUILDING VENTILATION SYSTEM AIR INTAKE AND EXHAUST DUCT OPENINGS, BY NOT LESS THEN 6 METRES.

(3). NO HYDRANTS LOCATED WITHIN 10 METRES OF THE KIOSKS.




## AUSGRID PROPERTY RIGHTS - EASEMENT PLAN

SCALE 1 : 500

0 10 20 30 40 50 METRES

**ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSGRID'S NETWORK STANDARDS.**

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

| CAD DRAWING | AMENDMENTS |
|---|---|
| DO NOT SCALE | RELOCATION OF HV MAINS BOTANY RD WATERLOO — AN-21031 |
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# ESTABLISH TBS
# KIOSK SUBSTATION
# S.32806
# BOTANY WELLINGTON TEMP
# 49 BOTANY RD, WATERLOO

SIZE A1 | AUSGRID PROJECT No. AN-22074 | SHEETS 7 of 9 | AMD. 0

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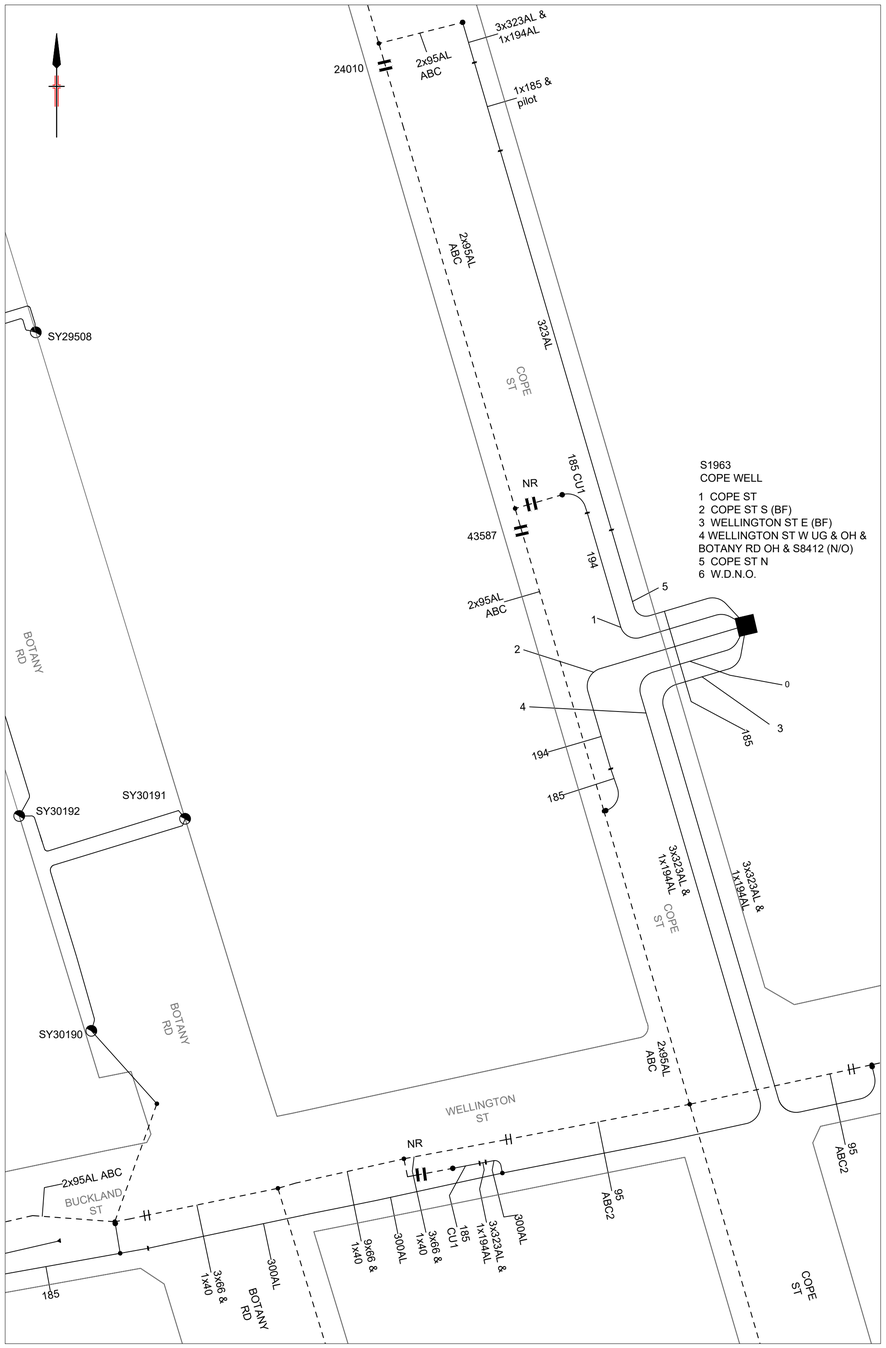



S1963
COPE WELL

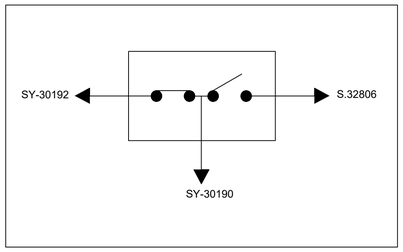
1 COPE ST
2 COPE ST S (BF)
3 WELLINGTON ST E (BF)
4 WELLINGTON ST W UG & OH & BOTANY RD OH & S8412 (N/O)
5 COPE ST N
6 W.D.N.O.

## EXISTING LV NETWORK

SCALE 1 : 500

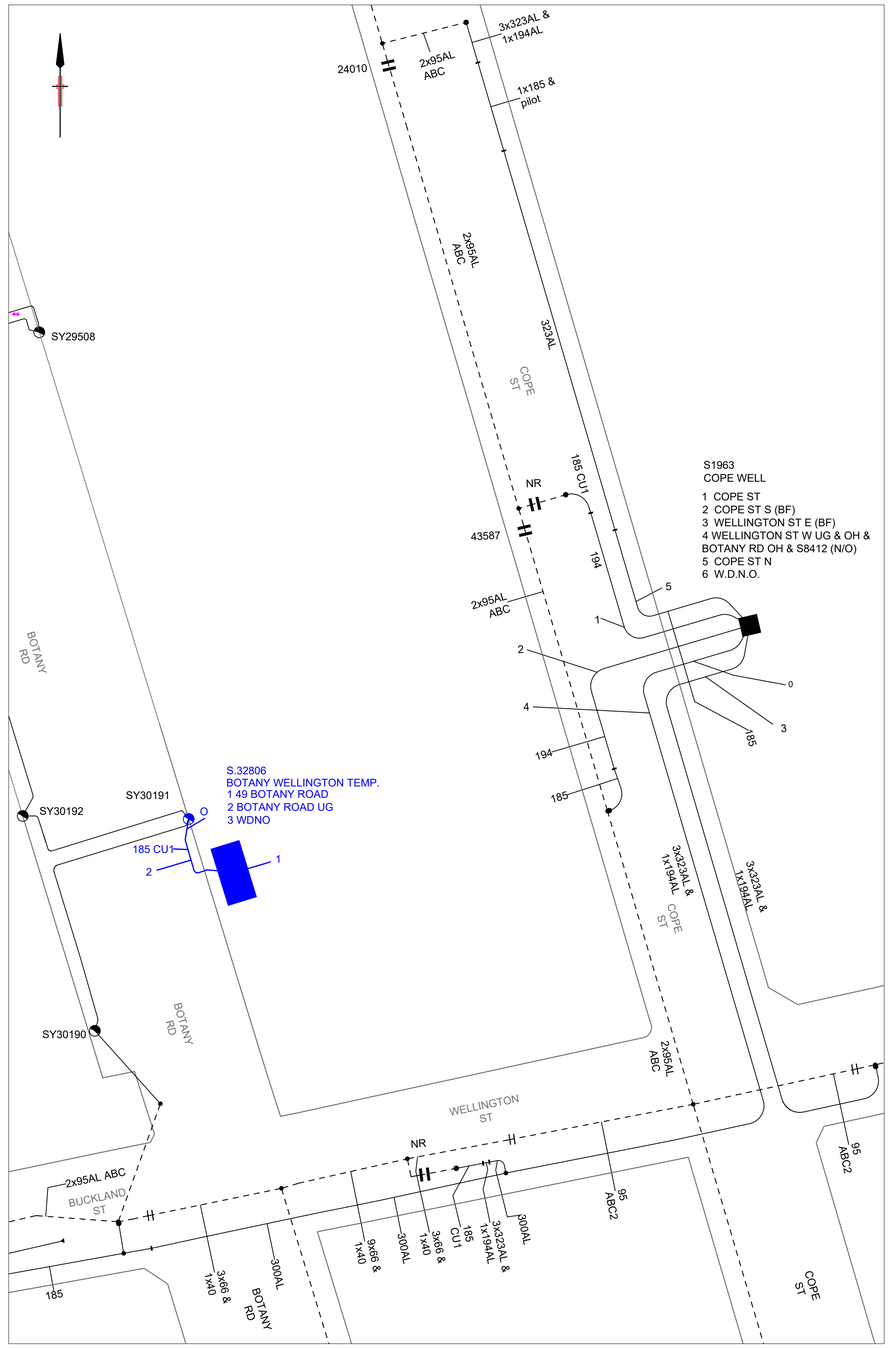
0 20 40 METRES
10 30 50

## DOUBLE LINK PILLAR SY-30191 CONNECTION DIAGRAM




CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

**ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSGRID'S NETWORK STANDARDS.**




S1963
COPE WELL

1 COPE ST
2 COPE ST S (BF)
3 WELLINGTON ST E (BF)
4 WELLINGTON ST W UG & OH & BOTANY RD OH & S8412 (N/O)
5 COPE ST N
6 W.D.N.O.

## PROPOSED LV NETWORK

SCALE 1 : 500

0 20 40 METRES
10 30 50

| AMENDMENTS | |
|---|---|
| CAD DRAWING | |

| ASSOCIATED DRAWINGS | |
|---|---|
| RELOCATION OF HV MAINS BOTANY RD WATERLOO | AN-21031 |
| RELOCATION OF LV MAINS BOTANY RD WATERLOO | AN-21032 |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www.wsp.com


| | |
|---|---|
| ASP REF. | PS119449 R2 |

| | |
|---|---|
| DESIGNED BY | DARSHAN SHRESTHA |
| AUTH NO. | 5045/5 |
| SUBMIT DATE | SUBMITTED 31/05/2021 |
| LGA | SYDNEY |
| MAP REF. | UBD 297 H10 |
| AUSGRID REF. | AUSGRID MAP SY43 |
| PRJTRAK No. | XCZ022279 |

# ESTABLISH TBS KIOSK SUBSTATION S.32806 BOTANY WELLINGTON TEMP 49 BOTANY RD, WATERLOO

CERTIFICATION NUMBER 8920275/20210601

SIZE A1 | AUSGRID PROJECT No. AN-22074 | SHEETS 8 of 9 | AMD. 0

20160817

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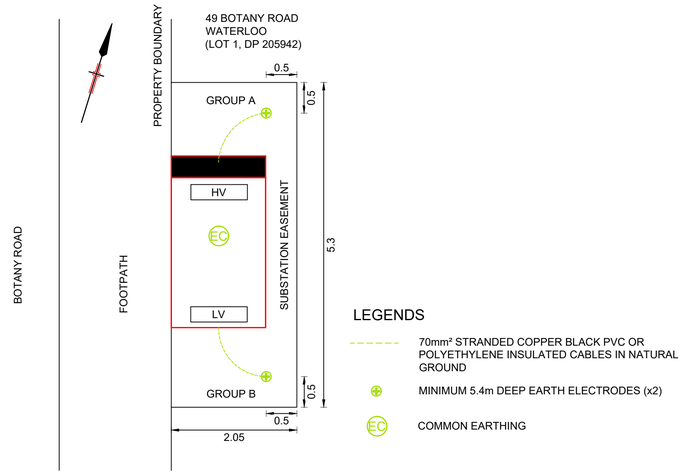



LEGENDS

- 70mm² STRANDED COPPER BLACK PVC OR POLYETHYLENE INSULATED CABLES IN NATURAL GROUND
- MINIMUM 5.4m DEEP EARTH ELECTRODES (x2)
- COMMON EARTHING

## KIOSK SUBSTATION - STANDARD MINIMUM EARTHING LAYOUT

SCALE 1 : 50

0 1 2 3 4 5 METRES

## EARTHING DESIGN SPECIFICATION (STANDARD MINIMUM EARTHING) - S.32806

### GENERAL

| | |
|---|---|
| EARTHING CONFIGURATION: | COMBINED |
| DESIGN CURVE: | ENA - TDMEN |
| ELECTRODES INSTALLATION: | DRIVEN |

| | DESIGN | AS BUILT | |
|---|---|---|---|
| **HV ELECTRODES** | | | |
| NUMBER OF ELECTRODES: | 1 | | |
| DEPTH OF EACH ELECTRODE: | 5.4 | | m |
| SPACING BETWEEN ELECTRODES: | 3 | | m |
| MAX RESISTANCE | < 200 | | ohms |
| MEASURED: | | | ohms |
| **LV ELECTRODES** | | | |
| NUMBER OF ELECTRODES: | 1 | | |
| DEPTH OF EACH ELECTRODE: | 5.4 | | m |
| SPACING BETWEEN ELECTRODES: | 3 | | m |
| MAX RESISTANCE - NORMAL: | < 200 | | ohms |
| MEASURED: | | | ohms |
| **COMBINED** | | | |
| RESISTANCE: | < 100 | | ohms |
| **MINIMUM SEPARATION DISTANCES** | | | |
| MINIMUM SEPARATION FROM TELCO ASSETS: | 1.2 | | m |
| MINIMUM SEPARATION BETWEEN HV AND LV AND/OR MEN ELECTRODES: | 4.3 | | m |

## EARTHING GENERAL NOTES

1. THIS DRAWING DETAILS STANDARD MINIMUM AND TYPICAL SITE SPECIFIC SINGLE KIOSK SUBSTATION EARTHING LAYOUTS. AND SHOULD BE READ IN CONJUNCTION WITH THE SUBSTATION LAYOUT DRAWINGS AND NETWORK STANDARDS NS 116, NS 117, NS 141 AND DRAWING 167433 .
2. SUPPLY AND INSTALLATION OF EARTH ELECTRODES, FITTING AND CABLES IS TO BE CARRIED OUT BY THE SUBSTATION EQUIPPING CONTRACTOR BEFORE THE INSTALLATION OF ANY WATERPROOF MEMBRANE AND POURING OF THE BASEMENT OR SUBSTATION FLOOR SLAB.
3. ALL TERMINATIONS AND JOINTS IN STRANDED EARTH CONDUCTORS ARE TO BE MADE BY APPROVED COMPRESSION TECHNIQUES.
4. WHERE GROUND CONDITIONS PERMIT, ELECTRODES ARE TO BE DRIVEN USING APPROPRIATE ROD DRIVERS AND DRIVING HEADS. WHERE GROUND CONDITIONS REQUIRE DRILLING, A 35mm DIAMETER HOLE FOR ROCK OR A 50<+mm DIAMETER HOLE FOR CLAY IS TO BE BORED FOR EACH ELECTRODE. AN APPROVED EARTHING COMPOUND IS TO BE PUMPED INTO THE BORE HOLE AFTER ELECTRODE INSTALLATION. ALL ELECTRODE INSTALLATIONS ARE TO BE TO A MINIMUM DEPTH OF 5.4 METRES.
5. COPPER EARTHING CONNECTION ARE TO BE KEPT CLEAR OF STEEL REINFORCING OF FLOOR SLAB WHERE POSSIBLE. OTHERWISE PVC INSULATED CABLES ARE TO BE USED AND COMPRESSION FITTINGS ARE TO BE TAPED OVER.
6. THE INSTALLATION AND CONNECTION OF THE EARTH RODS AND CONNECTING CABLES ARE TO BE INSPECTED AND APPROVED BY AUSGRID NOMINATED OFFICER BEFORE THE INSTALLATION OF ANY WATERPROOF MEMBRANE AND POURING OF THE BASEMENT OR SUBSTATION FLOOR SLAB.

## EARTHING REQUIREMENTS:

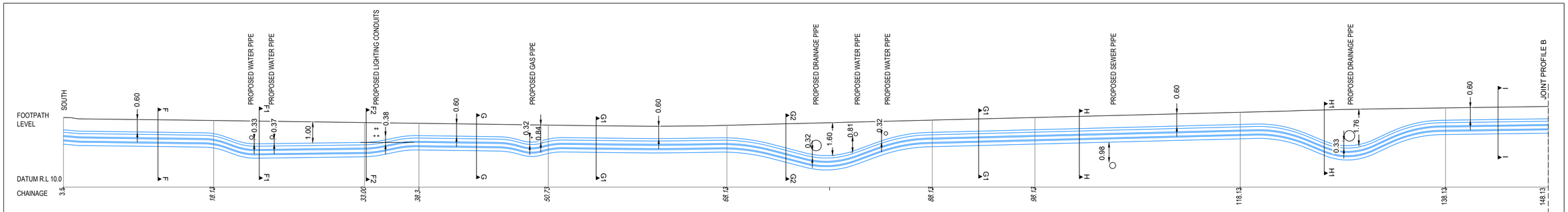
- EARTHING OF SUBSTATION TO BE CARRIED OUT IN ACCORDANCE WITH NS-116 AND STANDARD MINIMUM EARTHING (SME) ARRANGEMENT
- THE EARTHING SYSTEM MUST BE INSTALLED BEFORE COVERING FLOOR IS CONSTRUCTED.
- THE EARTH GRIDS SHALL CONSIST OF A DEEP ELECTRODE SYSTEM INTERCONNECTED WITH EARTHING CABLE AS SPECIFIED IN NS 116 DESIGN STANDARDS FOR DISTRIBUTION EARTHING.
- THE MINIMUM NUMBER OF ELECTRODES IN EACH GROUP SHALL BE AS SPECIFIED IN NS 116 DESIGN STANDARDS FOR DISTRIBUTION EARTHING.
- MINIMUM SEPARATION BETWEEN HV AND LV/OR MEN ELECTRODES IS 3m.

## CONSTRUCTION PROCEDURE:

- INSTALL THE EARTH ELECTRODES N PROPOSED LOCATION USING BORE HOLE/COPPER TUBE SYSTEM. THE ELECTRODE MUST BE INSTALLED TO A MIN. DEPTH OF 5.4m BELOW THE NATURAL GROUND LEVEL.
- THE EARTH ELECTRODES MUST BE MIN. 3m APART AND SEPARATION OF EACH GROUP OF ELECTRODE TO BE MIN. 6m OR AS PER EARTHING DIAGRAM.
- EARTHING GROUPS A AND B MUST BE CONNECTED TO THE EARTH BAR WITH PVC INSULATED 70 SQMM STRANDED COPPER CABLE.

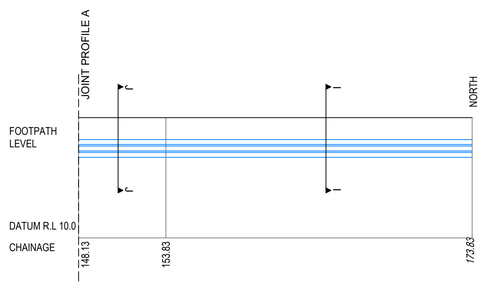
**ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AUSGRID'S NETWORK STANDARDS.**

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING




## BOTANY ROAD LONGITUDINAL SECTION PROFILE A

SCALE - HORIZ 1:200, VERT. 1:100




## BOTANY ROAD LONGITUDINAL SECTION PROFILE B

SCALE - HORIZ 1:200, VERT. 1:100

| | |
|---|---|
| RELOCATION OF HV MAINS BOTANY RD WATERLOO | AN-21031 |
| RELOCATION OF LV MAINS BOTANY RD WATERLOO | AN-21032 |

ASSOCIATED DRAWINGS

CAD DRAWING DO NOT AMEND

AMENDMENTS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www.wsp.com


ASP REF. PS119449 R2

CERTIFICATION NUMBER 8920275/20210601

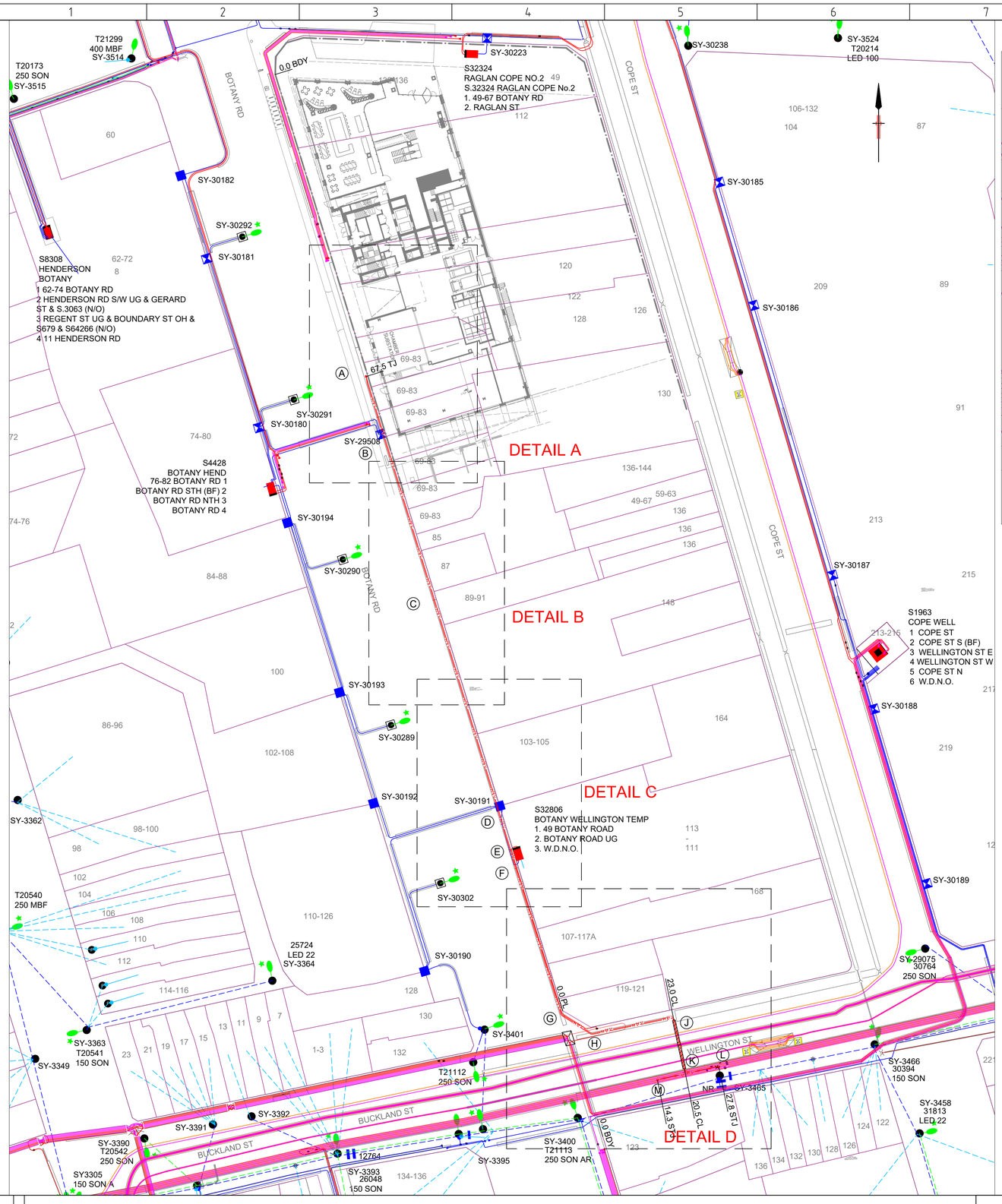
| | |
|---|---|
| DESIGNED BY | DARSHAN SHRESTHA |
| AUTH NO. | 5045/5 |
| SUBMIT DATE | SUBMITTED 31/05/2021 |
| LGA | SYDNEY |
| MAP REF. | UBD 297 H10 |
| AUSGRID REF. | AUSGRID MAP SY43 |
| PRJTRAK No. | XCZ022279 |

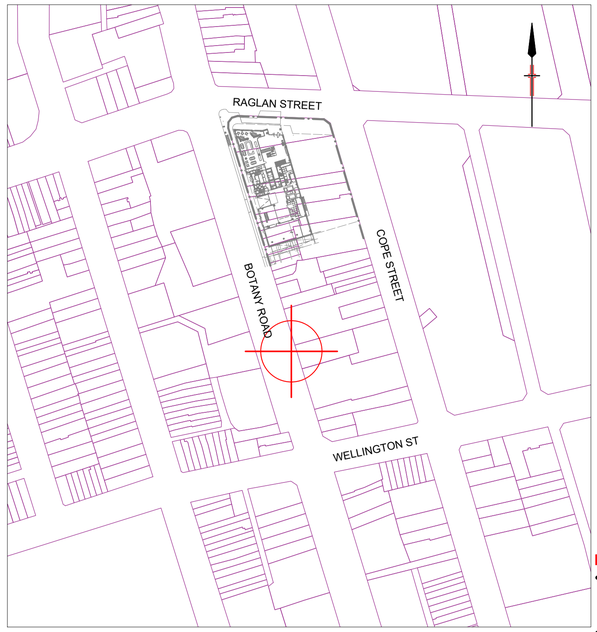
# ESTABLISH TBS KIOSK SUBSTATION S.32806 BOTANY WELLINGTON TEMP 49 BOTANY RD, WATERLOO

SIZE A1 | AUSGRID PROJECT No. AN-22074 | SHEETS 9 of 9 | AMD. 0

20160817

# CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING




**LOCALITY MAP**
NOT TO SCALE

## LEGEND

| | PROPOSED | EXISTING |
|---|---|---|
| Pole | ○ | ● |
| SL Standard | ▣ | ▣ |
| SL Column Remove | ▣ | ▣ |
| LV Pillar | □ | ■ |
| LV Link Pillar | ⊠ | ⊠ |
| Streetlight | ⬭ | ⬭ |
| Streetlight-PEC | ⬭ | ⬭ |
| Streetlight-replacement | | ⬭ |
| Streetlight-remove | | ⬭ |
| UGOH or Riser | ○ | ● |
| Pot End | ◁ | ◀ |
| Joint | ⬭ | ⬬ |
| HV cable | ○ | ● |
| HV Triplex | ⁂ | ⁂ |
| LV cable | ○ | ● |
| SL cable | ○ | ● |

| | PROPOSED | EXISTING |
|---|---|---|
| Item to be Removed | x | |
| Pole-to be removed | | ⊗ |
| Pillar-to be removed | | ⊗ |
| USL | ▯▯ | ▮▮ |
| ABS | ◁ | ◀ |
| IDT | ▯ | ▮ |
| Kiosk Sub | ▭ | ▬ |
| Chamber Sub | ▭ | ▬ |
| Sealed End | ◁ | ◀ |
| Cable Termination | ◁ | ◀ |
| Service cable | ○ | ● |
| Auxiliary cable | ○ | ● |
| Cable to be removed | | ✕ |
| Open Point | 0 | 0 |
| PEC | ☆ | ★ |
| 4-WAY LINK BOX | ▭ | |

| | PROPOSED | EXISTING | REMOVE |
|---|---|---|---|
| Conduit | ▨ | ▭ | |
| OH Lines | UG Cables | OH Lines | UG Cables | OH Lines |
| -HV- | -HV- | -HV- | -HV- | -HV-x- |
| -LV- | -LV- | -LV- | -LV- | -LV-x- |
| -SL- | -SL- | -SL- | -SL- | -SL-x- |
| -SV- | -SV- | -SV- | -SV- | -SV-x- |
| -TR132- | -TR132- | -TR132- | -TR132- | -TR132-x- |
| -TR33- | -TR33- | -TR33- | -TR33- | -TR33-x- |
| -AUX- | -AUX- | -AUX- | -AUX- | -AUX-x- |

THIS DESIGN CONSUMES FOLLOWING CONSTRUCTION HAVE BEEN FINISHED:
- AN-22074 (WSP): ESTABLISH TBS KIOSK SUBSTATION S.32806
- AN-21190 (ULTEGRA): ESTABLISH S.32324 RAGLAN COPE NO.02
- AN-21031 (ULTEGRA): RELOCATION OF HV MAINS BOTANY ROAD
- AN-21032 (ULTEGRA): RELOCATION OF LV MAINS BOTANY ROAD

WARNING

- THIS DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
- THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, INCLUDING AUSGRID'S NETWORK, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCES BY CONTACTING DIAL-BEFORE-YOU-DIG BY TELEPHONE ON 1100 OR AT www.1100.com.au.
- DIAL-BEFORE-YOU-DIG INFORMATION MUST BE CURRENT, AS INDICATED BY THE VALIDITY DATES ON THE DIAL-BEFORE-YOU-DIG INFORMATION, AT THE TIME OF CONSTRUCTION.

ASP LEVEL 2 WORK

ALL LEVEL 2 ASP WORK DEPICTED ON THIS DRAWING IS SHOWN FOR INFORMATION PURPOSES ONLY AND DOES NOT FORM PART OF THE CERTIFIED DESIGN.

**CONSTRUCTION PLAN**

SCALE 1 : 500

0 10 20 30 40 50 METRES

## NOTE

- ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH ALL RELEVANT AUSGRID NETWORK STANDARDS AND THE NECESSARY SAFETY, TRAFFIC AND ENVIRONMENTAL MEASURES.
- ALL WORKS TO COMPLY WITH AUSGRID NETWORK STANDARDS, UNLESS NETWORK STANDARD VARIATION IN ACCORDANCE WITH NS181 HAS BEEN APPROVED IN WRITING BY AUSGRID. IN THE EVENT OF A DISCREPENCY BETWEEN THIS CERTIFIED DESIGN AND AUSGRID'S NETWORK STANDARDS, THE NETWORK STANDARD REQUIREMENTS SHALL PREVAIL.
- DETAILED PLANS OF ALL UTILITY CONSTRUCTIONS MUST BE OBTAINED PRIOR TO UNDERTAKING ANY EXCAVATIONS. MACHINE EXCAVATION MUST NOT BE USED IN THE VICINITY OF LIVE ELECTRICITY CABLES.
- THE ASP/1 IS RESPONSIBLE FOR UNDERTAKING SATISFACTORY CONSULTATION WITH ALL LOCAL CUSTOMERS WHO MAY POTENTIALLY BE AFFECTED BY THE CONSTRUCTION WORKS INCLUDING ALL ALTERATIONS TO SERVICE MAINS.
- CLAIMS FOR VARIATIONS TO THE COST OF NON-CONTESTABLE WORKS, INCLUDING ROCK EXCAVATION, WILL NOT BE ACCEPTED UNLESS VERIFIED ON SITE BY AUSGRID WHILE THE WORKS ARE IN PROGRESS.
- THE ASP1 IS RESPONSIBLE FOR UNDERTAKING SATISFACTORY CONSULTATION WITH ALL LOCAL CUSTOMERS WHO MAY POTENTIALLY BE AFFECTED BY THE CONSTRUCTION WORKS INCLUDING ALL ALTERATIONS TO SERVICE MAINS.
- THE ASP/1 MUST MINIMIZE THE IMPACT OF THE WORKS ON THE ELECTRICITY SUPPLY TO CUSTOMERS AND INTERRUPTIONS TO SUPPLY MUST BE AVOIDED WHEREVER POSSIBLE. AT LEAST FOUR (4) CLEAR BUSINESS DAYS NOTICE MUST BE PROVIDED TO ALL AFFECTED CUSTOMERS PRIOR TO ANY PLANNED INTERRUPTIONS TO THE ELECTRICITY SUPPLY. NOTICE MUST BE IN WRITING IN ACCORDANCE WITH CLAUSE 90 OF THE NATIONAL ENERGY RETAIL RULES.
- SPECIFIC PRIOR APPROVAL MUST BE SOUGHT FROM AUSGRID FOR ANY PLANNED ELECTRICITY SUPPLY INTERRUPTIONS WHERE THE PLANNED INTERRUPTION WILL EXCEED ONE (1) HOUR IN DURATION OR THE DURATION WILL BE LESS THAN ONE HOUR, BUT A SUITABLE TIME FOR THE INTERRUPTION CANNOT BE MUTUALLY AGREED TO WITH THE AFFECTED CUSTOMER(S).
- THE ASP/1 IS TO MAINTAIN ADEQUATE PUBLIC LIGHTING LEVELS FOR THE DURATION OF THE WORKS. IF NECESSARY, THE ASP/1 IS TO ARRANGE FOR SUITABLE TEMPORARY STREET LIGHTING TO BE PROVIDED UNTIL PERMANENT LIGHTING IS RE-ESTABLISHED.
- THE ASP/1 IS TO CO-ORDINATE THE MODIFICATION AND TESTING OF ANY REQUIRED PROTECTION RELAY WITH THE AUSGRID TECHNICAL SERVICES GROUP.
- THE ASP1 IS REQUIRED TO COMPLY WITH THE CORRECT PROCEDURE(S) FOR WORKING WITH AND/OR NEAR ASBESTOS MATERIAL (REFER TO AUSGRID NS211 - WORKING WITH ASBESTOS PRODUCTS).
- THIS INFORMATION INCLUDES DATA FROM THE NSW DIGITAL CADASTRAL DATABASE BY LAND AND PROPERTY INFORMATION © 2016, USED UNDER CREATIVE COMMONS LICENCE VERSION 4.0.
- HV DIRECT BURIED CABLES ARE INSTALLED UNDER FOOTPATH WITH MINIMUM 600mm COVER AND LV CABLE WITH MINIMUM 500mm COVER AND WITH MINIMUM 50mm SEPARATION FROM AUSGRID LV/HV CABLES AS PER NS130.
- ALL CONDUIT END SHOULD BE NOT BE UNDER ANY CARRIAGEWAY.
- DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DESIGN. QUANTITIES AND DIMENSIONS GIVEN IN THIS DESIGN ARE BASED ON INFORMATION AND SITE CONDITIONS AT THE TIME OF AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON THE SITE PRIOR TO TENDERING AND PRIOR TO CONSTRUCTION.
- FOR IDENTIFICATION AND JOINTING PURPOSES, ALL CABLES ENDS SHALL BE LABELED AS PER AUSGRID STANDARDS.

CAD DRAWING AMENDMENTS

ASSOCIATED DRAWINGS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www.wspgroup.com/asia-pacific


| | |
|---|---|
| DESIGNED BY | LESLIE WONG |
| AUTH NO. | 5045/6 |
| SUBMIT DATE | SUBMITTED 02/11/2021 |
| LGA | CITY OF SYDNEY |
| MAP REF. | UBD SYDNEY 297 F10 |
| AUSGRID REF. | SY43 |
| PRJTRAK No. | XCZ022481 |
| ASP REF. | PS119449 |
| CERTIFICATION NUMBER | 2416330/20211104 |

# HV CABLE ENABLING WORK
# BUILDING 1 & 2
# LOT190, BOTANY RD, WATERLOO

| SIZE | AUSGRID PROJECT No. | SHEETS | AMD. |
|---|---|---|---|
| A1 | AN-22728 | 1 of 4 | 0 |

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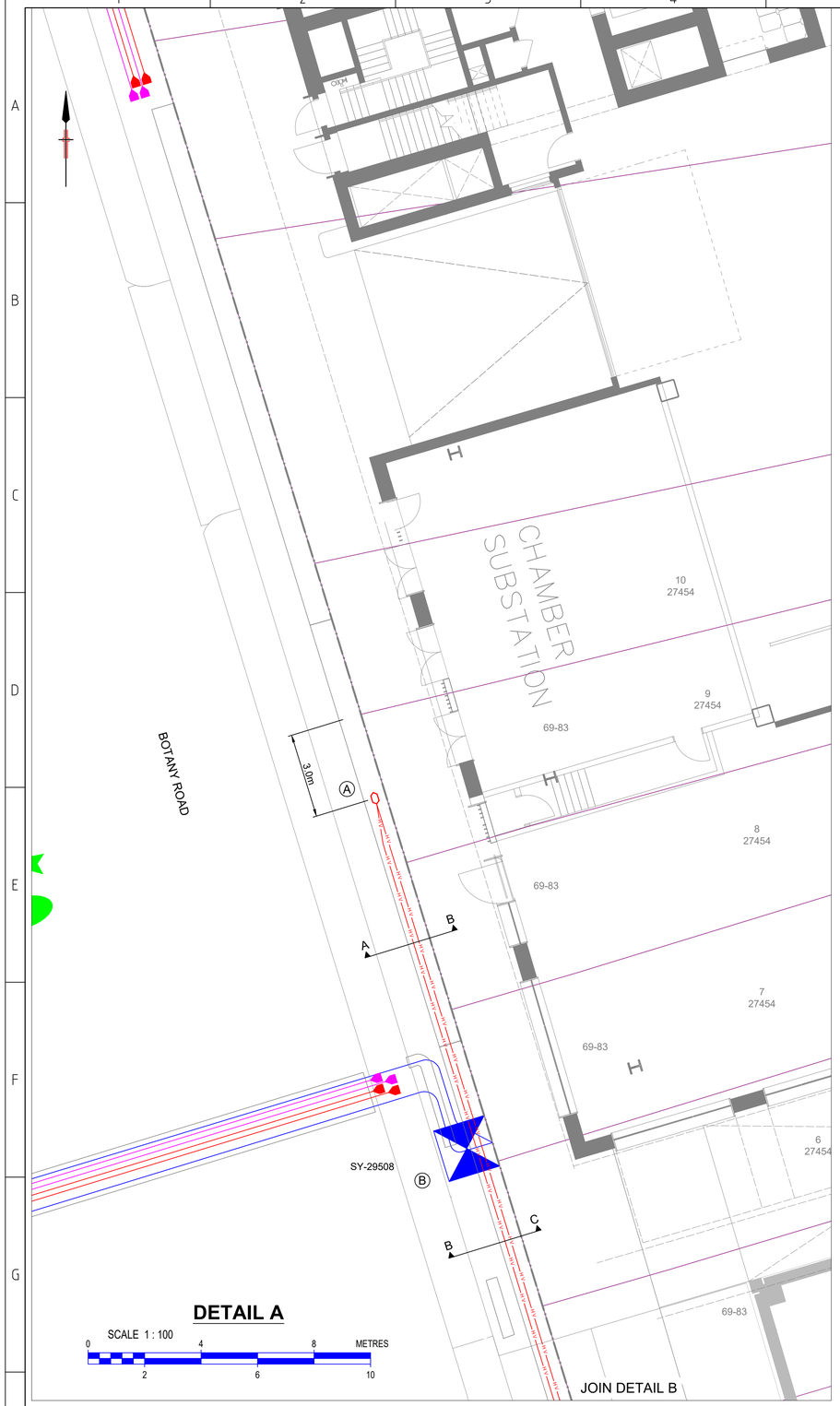
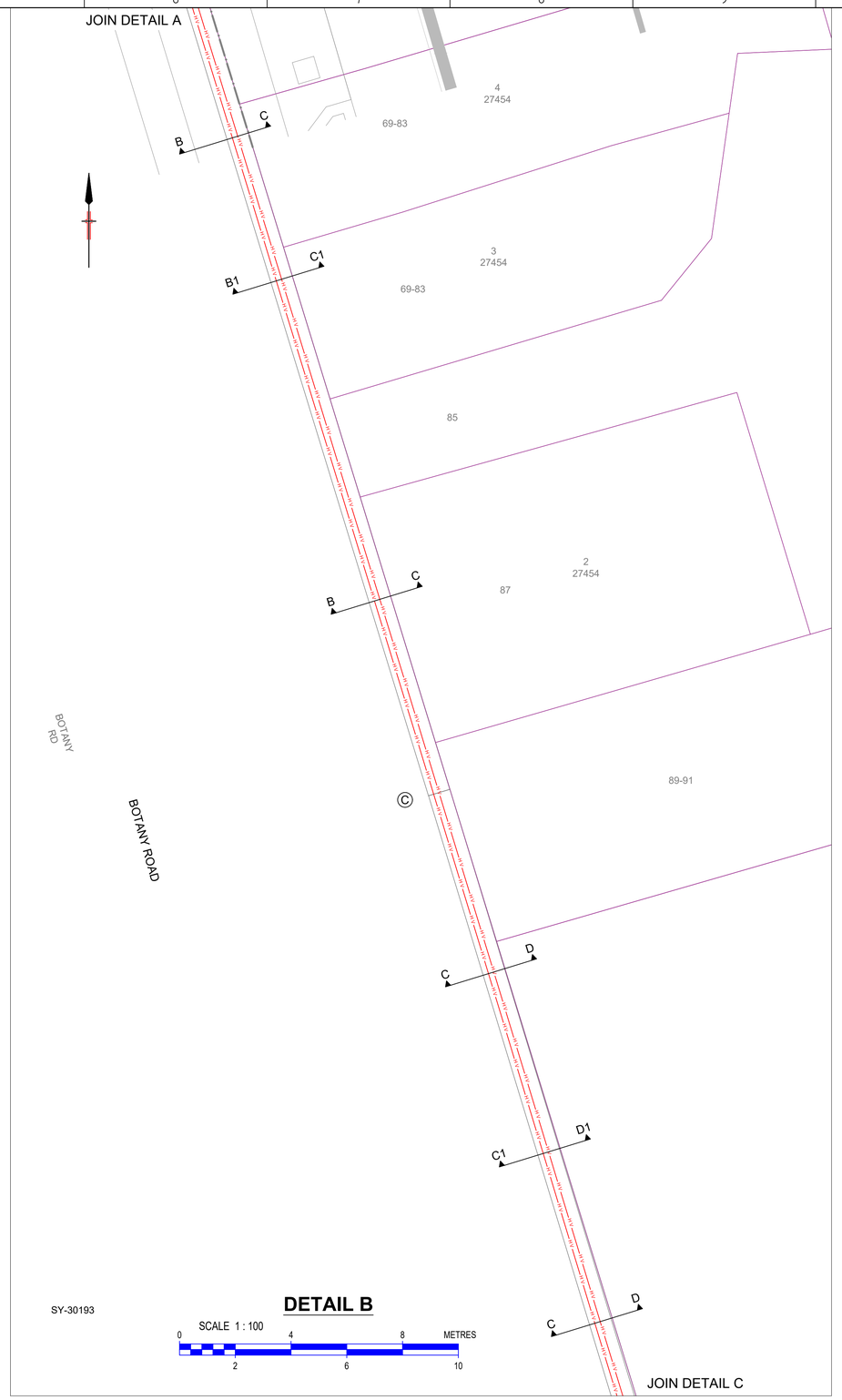



**DETAIL A**

SCALE 1 : 100

0 2 4 6 8 10 METRES

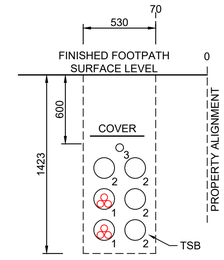



**DETAIL B**

SCALE 1 : 100

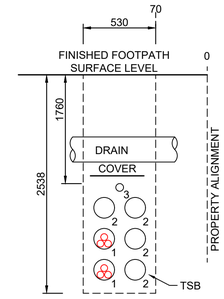
0 2 4 6 8 10 METRES

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING



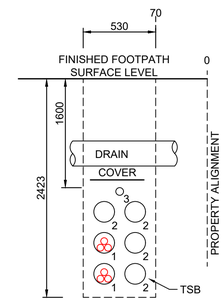

**SECTION A-B**
**SECTION B-C**
**SECTION C-D**

1 - NEW 11kV 300CU1 CABLE IN EXISTING 150mm UPVC CONDUIT
2 - EXISTING SPARE 150mm UPVC CONDUIT
3 - EXISTING SPARE 63mm UPVC CONDUIT




**SECTION B1-C1**

1 - NEW 11kV 300CU1 CABLE IN EXISTING 150mm UPVC CONDUIT
2 - EXISTING SPARE 150mm UPVC CONDUIT
3 - EXISTING SPARE 63mm UPVC CONDUIT




**SECTION C1-D1**

1 - NEW 11kV 300CU1 CABLE IN EXISTING 150mm UPVC CONDUIT
2 - EXISTING SPARE 150mm UPVC CONDUIT
3 - EXISTING SPARE 63mm UPVC CONDUIT

WARNING

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- DIAL-BEFORE-YOU-DIG INFORMATION MUST NOT BE OLDER THAN 20 BUSINESS DAYS AT THE TIME OF CONSTRUCTION.

CAD DRAWING

AMENDMENTS

ASSOCIATED DRAWINGS


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Tel: +61 2 9272 5100 Fax: +61 2 9272 5101
www.wspgroup.com/asia-pacific


| | |
|---|---|
| DESIGNED BY | LESLIE WONG |
| AUTH NO. | 5045/6 |
| SUBMIT DATE | SUBMITTED 02/11/2021 |
| LGA | CITY OF SYDNEY |
| MAP REF. | UBD SYDNEY 297 F10 |
| AUSGRID REF. | SY43 |
| PRJTRAK No. | XCZ022481 |
| ASP REF. | PS119449 |
| CERTIFICATION NUMBER | 2416330/20211104 |

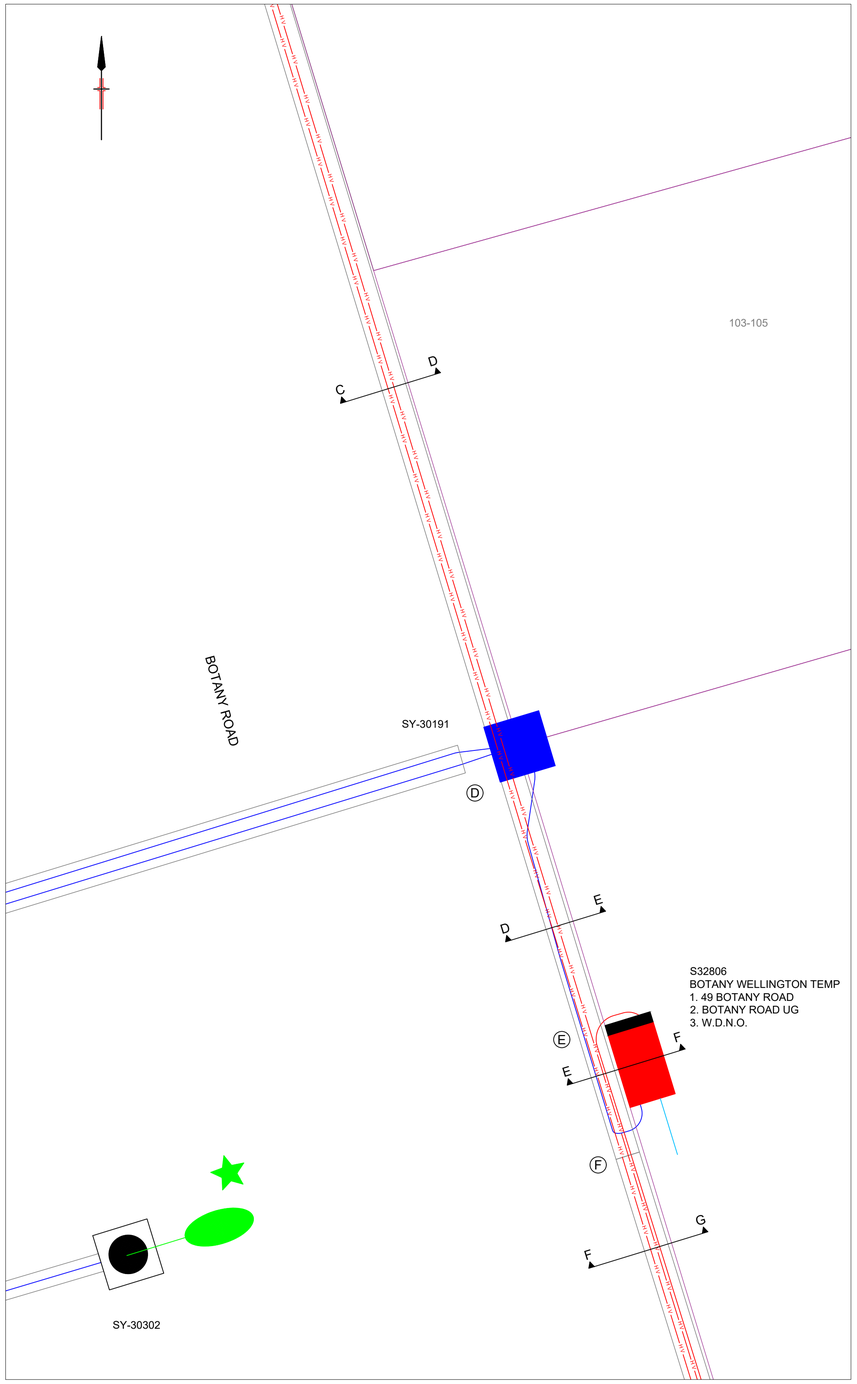
# HV CABLE ENABLING WORK
# BUILDING 1 & 2
# LOT190, BOTANY RD, WATERLOO

SIZE A1 | AUSGRID PROJECT No. AN-22728 | SHEETS 2 of 4 | AMD. 0

20160817

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

JOIN DETAIL B




## DETAIL C

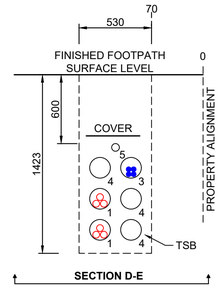
SCALE 1 : 100

0 2 4 6 8 10 METRES

JOIN DETAIL D

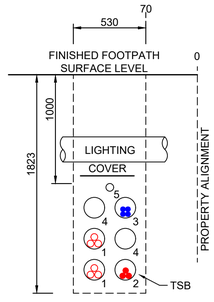
## UNDERGROUND CONSTRUCTION WORKS SCHEDULE *(DUCT PULL V1.1)*

| REF. IDENTIFIER | ROUTE DISTANCE (m) | CIRCUIT VOLTAGE | CONDUCTOR OR ASSET DETAIL | CONDUCTOR CODE / STOCK CODE | MIN. INTERNAL BENDING RADIUS (mm) DURING INSTALLATION | MIN. INTERNAL BENDING RADIUS (mm) AFTER INSTALLATION | CALCULATED MAX. PULLING TENSION (kN) DURING INSTALLATION | CONSTRUCTION DETAIL |
|---|---|---|---|---|---|---|---|---|
| CIVIL WORKS | | | | | | | | |
| A | 3m | - | EXCAVATE FOR CABLE & JOINT INSTALLATION | - | - | - | - | EXCAVATE FOR OPEN POINT |
| G - H | 6m | - | EXCAVATE FOR CABLE INSTALLATION | - | - | - | - | EXCAVATE FOR OPEN POINT |
| J - K | 11m | - | 4 X 125mm UPVC CONDUITS (2 SPARE)<br>1 X 63mm UPVC CONDUIT (1 SPARE) | - | - | - | - | INSTALL CONDUITS AS PER ASSOCIATED CROSS SECTION DETAILS |
| K - L | 9m | - | EXCAVATE FOR CABLE INSTALLATION | - | - | - | - | EXCAVATE FOR CABLE INSTALLATION AND JOINTING |
| K - M | 7m | - | EXCAVATE FOR CABLE INSTALLATION | - | - | - | - | EXCAVATE FOR CABLE INSTALLATION AND JOINTING |
| H V CABLE INSTALLATION | | | | | | | | |
| A | - | 11KV | 1 X POLYMERIC TEE JOINTS (HV3-40) | SC 178132 | - | - | - | BREAK EXISTING CONDUITS AND MAKE A NEW HV JOINT FROM NEW CABLE 11KV 300 CU1 TRXQ 70 CU (WS) Z YQ / TRIPLEX TO 11KV 300 CU1 TRXQ 70 CU (WS) Z YQ / TRIPLEX |
| A-B-C-D-G-H-J-M-K-L | 201m | 11KV | 1 X 300 CU1 TRXQ 70 CU (WS) Z YQ / TRIPLEX | SC 179122 | 1275mm(BUNDLED) 960mm(PHASE) | 850mm(BUNDLED) 575mm(PHASE) | PULLING EYES, FROM K TO A - 14.76kN WITH 0.3 FRICTION COEFFICIENT | INSTALL NEW CABLES BETWEEN NEW JOINTS AS PER SECTION DETAILS;<br>ASP/1 SHOULD APPLY LUBRICANT, AND THE LUBRICANT TO BE USED IS POLYWATER J.<br>A STRAIN GAUGE WITH LOGGING CAPABILITY SHALL BE USED BY THE ASP/1.<br>ASP/1 SHOULD PROVIDE A LOG OF THE CABLE PULL TO THE AUSGRID COMPLIANCE OFFICER FOR REVIEW BY ENGINEERING. |
| L | - | 11KV | 1 X THREE-TO-ONE TRANSITION JOINT (HV2-27) | SC 177917 | - | - | - | REPLACE EXISTING HV JOINT FROM NEW CABLE 11KV 300 CU1 TRXQ 70 CU (WS) Z YQ / TRIPLEX TO EXISTING CABLE 11KV 500 AL3 PHL SWJ |
| A-B-C-D-G-H-J-M-K-M | 200m | 11KV | 1 X 300 CU1 TRXQ 70 CU (WS) Z YQ / TRIPLEX | SC 179122 | 1275mm(BUNDLED) 960mm(PHASE) | 850mm(BUNDLED) 575mm(PHASE) | PULLING EYES, FROM K TO A - 14.76kN WITH 0.3 FRICTION COEFFICIENT | INSTALL NEW CABLES BETWEEN NEW JOINTS AS PER SECTION DETAILS;<br>ASP/1 SHOULD APPLY LUBRICANT, AND THE LUBRICANT TO BE USED IS POLYWATER J.<br>A STRAIN GAUGE WITH LOGGING CAPABILITY SHALL BE USED BY THE ASP/1.<br>ASP/1 SHOULD PROVIDE A LOG OF THE CABLE PULL TO THE AUSGRID COMPLIANCE OFFICER FOR REVIEW BY ENGINEERING. |
| M | - | 11KV | 1 X THREE-TO-ONE TRANSITION JOINT (HV2-27) | SC 177917 | - | - | - | CUT INTO EXITING CABLE AT SUITABLE LENGTH;<br>MAKE NEW HV JOINT FROM NEW CABLE 11KV 300 CU1 TRXQ 70 CU (WS) Z YQ/TRIPLEX TO EXISTING CABLE 11KV 500 AL3 PHL SWJ |
| L - M | 11m | 11KV | EXISTING 500 AL3 PHL SWJ CABLE & JOINT 174 | - | - | - | - | REMOVE EXISTING HV CABLE AND EXISTING JOINT 174 |



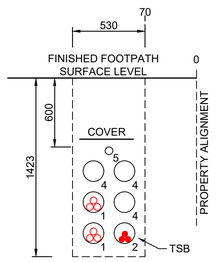

**SECTION D-E**

1 - NEW 11kV 300CU1 CABLE IN EXISTING 150mm UPVC CONDUIT
3 - EXISTING LV CABLE IN EXISTING 150mm UPVC CONDUIT
4 - EXISTING SPARE 150mm UPVC CONDUIT
5 - EXISTING SPARE 63mm UPVC CONDUIT




**SECTION E-F**

1 - NEW 11kV 300CU1 CABLE IN EXISTING 150mm UPVC CONDUIT
2 - EXISTING HV CABLE IN EXISTING 150mm UPVC CONDUIT
3 - EXISTING LV CABLE IN EXISTING 150mm UPVC CONDUIT
4 - EXISTING SPARE 150mm UPVC CONDUIT
5 - EXISTING SPARE 63mm UPVC CONDUIT

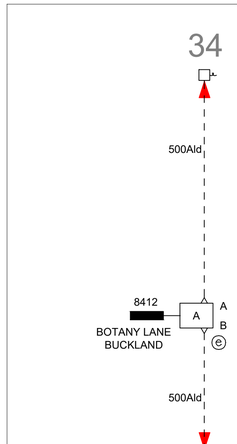



**SECTION F-G**

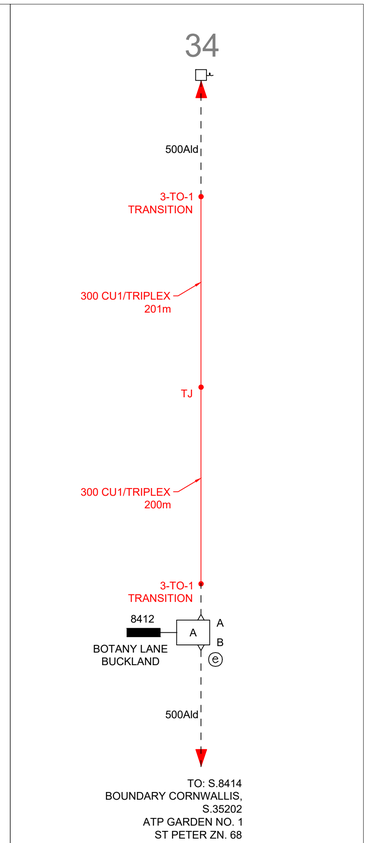
1 - NEW 11kV 300CU1 CABLE IN EXISTING 150mm UPVC CONDUIT
2 - EXISTING HV CABLE IN EXISTING 150mm UPVC CONDUIT
4 - EXISTING SPARE 150mm UPVC CONDUIT
5 - EXISTING SPARE 63mm UPVC CONDUIT

WARNING

- THIS DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
- THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, INCLUDING AUSGRID'S NETWORK, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCES BY CONTACTING DIAL-BEFORE-YOU-DIG BY TELEPHONE ON 1100 OR AT www.1100.com.au.
- DIAL-BEFORE-YOU-DIG INFORMATION MUST NOT BE OLDER THAN 20 BUSINESS DAYS AT THE TIME OF CONSTRUCTION.




## 11KV SCHEMATIC - EXISTING ZETLAND ZONE NO.18 (4 OF 4)




## 11KV SCHEMATIC - PROPOSED ZETLAND ZONE NO.18 (4 OF 4)

CAD DRAWING

AMENDMENTS

ASSOCIATED DRAWINGS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ASP # 5045
Lvl 27, 680 George St, Sydney, NSW, 2000
PO Box 5394, Sydney, NSW 2001, Australia
Tel: +61 2 9272 5100 Fax: +61 2 9272 5101
www.wspgroup.com/asia-pacific


| | |
|---|---|
| DESIGNED BY | LESLIE WONG |
| AUTH NO. | 5045/6 |
| SUBMIT DATE | SUBMITTED 02/11/2021 |
| LGA | CITY OF SYDNEY |
| MAP REF. | UBD SYDNEY 297 F10 |
| AUSGRID REF. | SY43 |
| PRJTRAK No. | XCZ022481 |
| ASP REF. | PS119449 |
| CERTIFICATION NUMBER | 2416330/20211104 |

# HV CABLE ENABLING WORK
# BUILDING 1 & 2
# LOT190, BOTANY RD, WATERLOO

| SIZE | AUSGRID PROJECT No. | SHEETS | AMD |
|---|---|---|---|
| A1 | AN-22728 | 3 of 4 | 0 |

20160817

JOIN DETAIL C

# CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

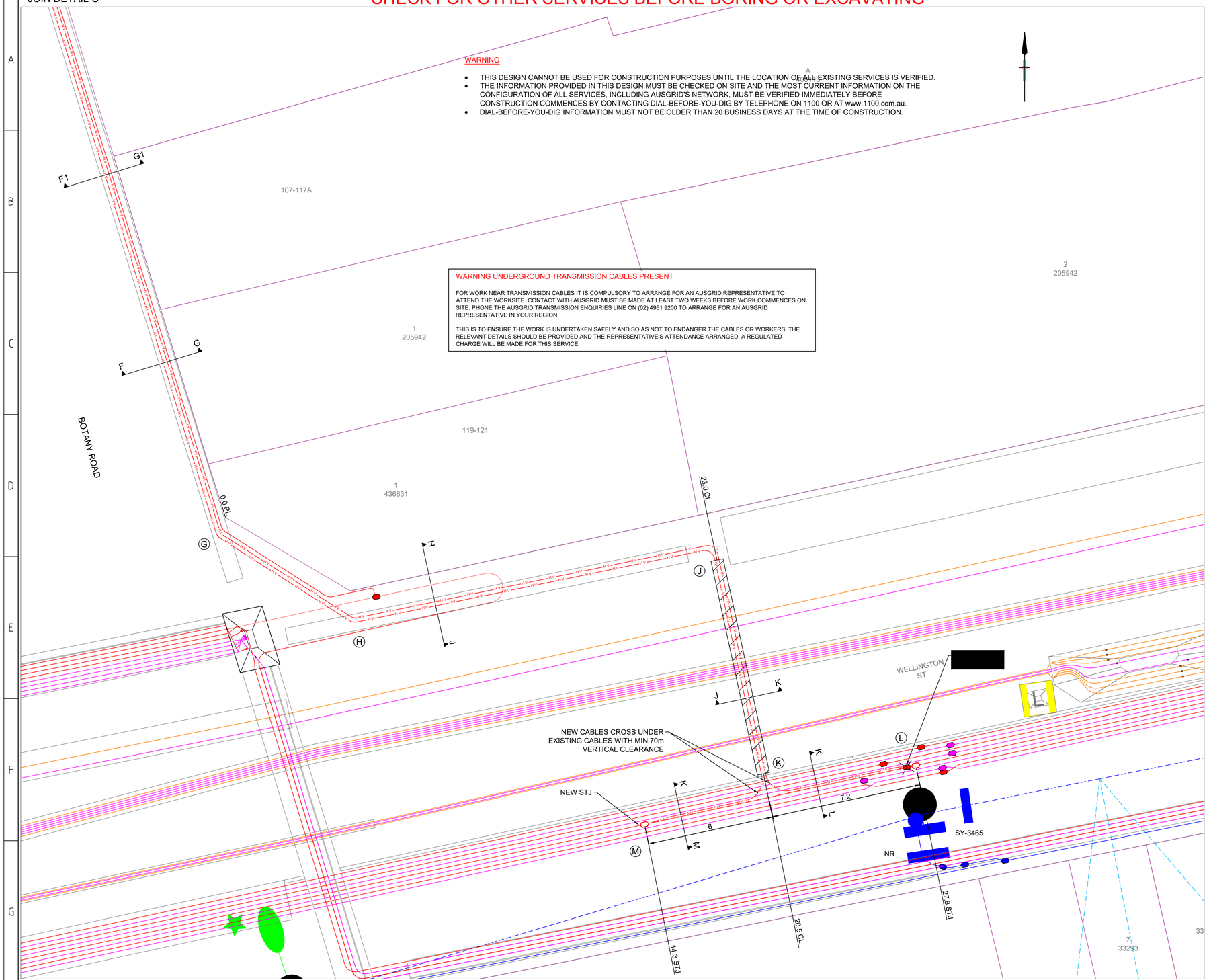
WARNING

- THIS DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
- THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, INCLUDING AUSGRID'S NETWORK, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCES BY CONTACTING DIAL-BEFORE-YOU-DIG BY TELEPHONE ON 1100 OR AT www.1100.com.au.
- DIAL-BEFORE-YOU-DIG INFORMATION MUST NOT BE OLDER THAN 20 BUSINESS DAYS AT THE TIME OF CONSTRUCTION.

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.

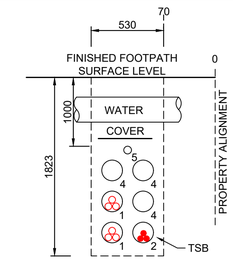
THIS IS TO ENSURE THE WORK IS UNDERTAKEN SAFELY AND SO AS NOT TO ENDANGER THE CABLES OR WORKERS. THE RELEVANT DETAILS SHOULD BE PROVIDED AND THE REPRESENTATIVE'S ATTENDANCE ARRANGED. A REGULATED CHARGE WILL BE MADE FOR THIS SERVICE.




## DETAIL D

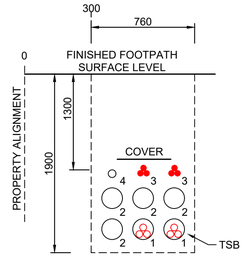
SCALE 1 : 100

0 2 4 6 8 10 METRES



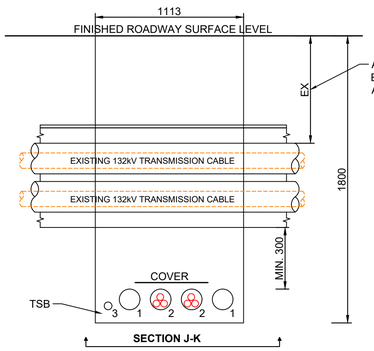

**SECTION F1-G1**

1 - NEW 11kV 300CU1 CABLE IN EXISTING 150mm UPVC CONDUIT
2 - EXISTING HV CABLE IN EXISTING 150mm UPVC CONDUIT
4 - EXISTING SPARE 150mm UPVC CONDUIT
5 - EXISTING SPARE 63mm UPVC CONDUIT



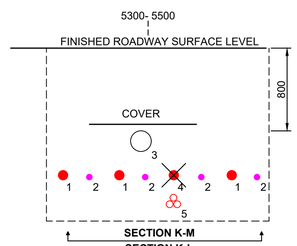

**SECTION H-J**

1 - NEW 11kV 300CU1 CABLE IN EXISTING 150mm UPVC CONDUIT
2 - EXISTING SPARE 150mm UPVC CONDUIT
3 - EXISTING HV CABLE DIRECTLY BURIED
4 - EXISTING SPARE 63mm UPVC CONDUIT




**SECTION J-K**

1 - NEW SPARE 150mm UPVC CONDUIT
2 - NEW 11kV 300CU1 CABLE IN NEW 150mm UPVC CONDUIT
3 - NEW SPARE 63mm UPVC CONDUIT




**SECTION K-M**
**SECTION K-L**

1 - EXISTING 11kV 500 AL3 P H L SW J CABLE (#351) DIRECT BURIED
2 - EXISTING 1.5 CU4 Q Q Z NY (#802) IN DIRECT BURIED
3 - EXISTING SPARE 125mm CONDUIT
4 - EXISTING 11kV 500 AL3 P H L SW J CABLE (#351) TO BE REMOVED
5 - NEW 11kV 300CU1 CABLE DIRECT BURIED

CAD DRAWING DO NOT SCALE DRAWING
AMENDMENTS

ASSOCIATED DRAWINGS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ASP # 5045
Lvl 27, 680 George St, Sydney, NSW, 2000
PO Box 5394, Sydney, NSW 2001, Australia
Tel: +61 2 9272 5100 Fax: +61 2 9272 5101
www.wspgroup.com/asia-pacific


| | |
|---|---|
| DESIGNED BY | LESLIE WONG |
| AUTH NO. | 5045/6 |
| SUBMIT DATE | SUBMITTED 02/11/2021 |
| LGA | CITY OF SYDNEY |
| MAP REF. | UBD SYDNEY 297 F10 |
| AUSGRID REF. | SY43 |
| PRJTRAK No. | XCZ022481 |
| ASP REF. | PS119449 |

CERTIFICATION NUMBER 2416330/20211104

# HV CABLE ENABLING WORK BUILDING 1 & 2 LOT190, BOTANY RD, WATERLOO

| SIZE | AUSGRID PROJECT No. | SHEETS | AMD |
|---|---|---|---|
| A1 | AN-22728 | 4 of 4 | 0 |

20160817

# Appendix 4 – Existing Utilities Plan

# OVERVIEW

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

DISCLAIMER:

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.

veris

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W: www.veris.com.au
ABN 53 615 735 727

CLIENT

PROJECT TITLE

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. |

DIAL BEFORE YOU DIG www.1100.com.au

THIS PLAN DOES NOT REPLACE DBYD PLANS

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: | 2 OF 75 |

JOB NUMBER 202254

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.

NULCA AUSTRALIA INC National Utility Locating Contractors Association

DIAL BEFORE YOU DIG® CERTIFIED LOCATOR

ACCREDITED PLANT LOCATOR

OPTUS

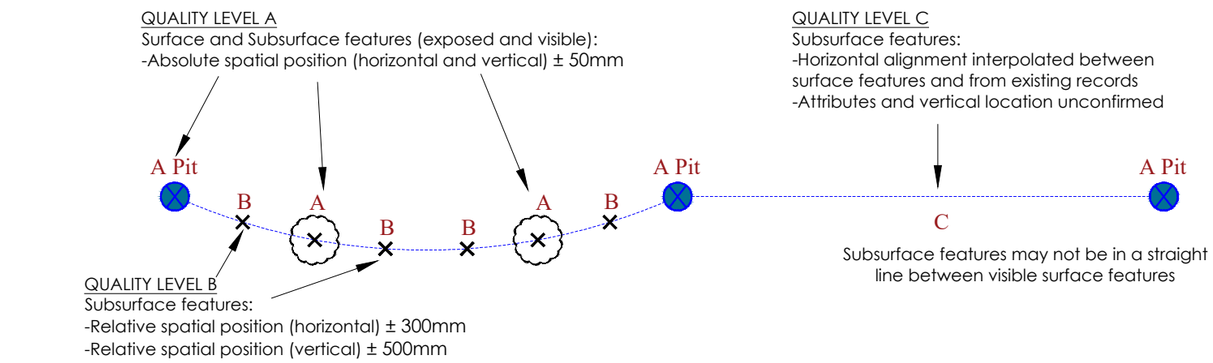
OHS Management - AS/NZS 4801 Global-Mark.com.au®

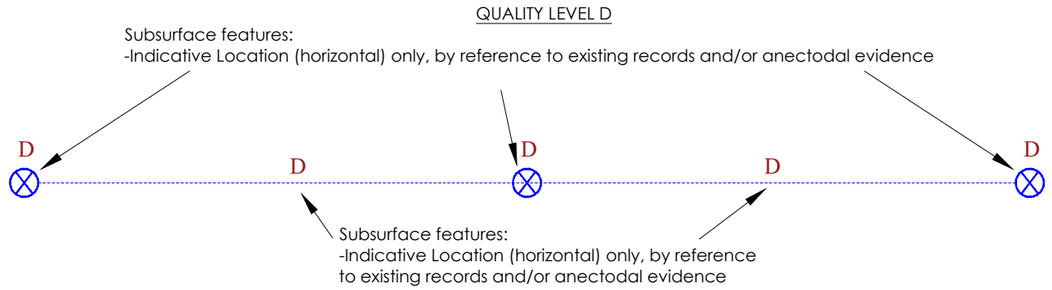
Environmental Management - ISO14001 Global-Mark.com.au®

Quality Management - ISO 9001 Global-Mark.com.au®

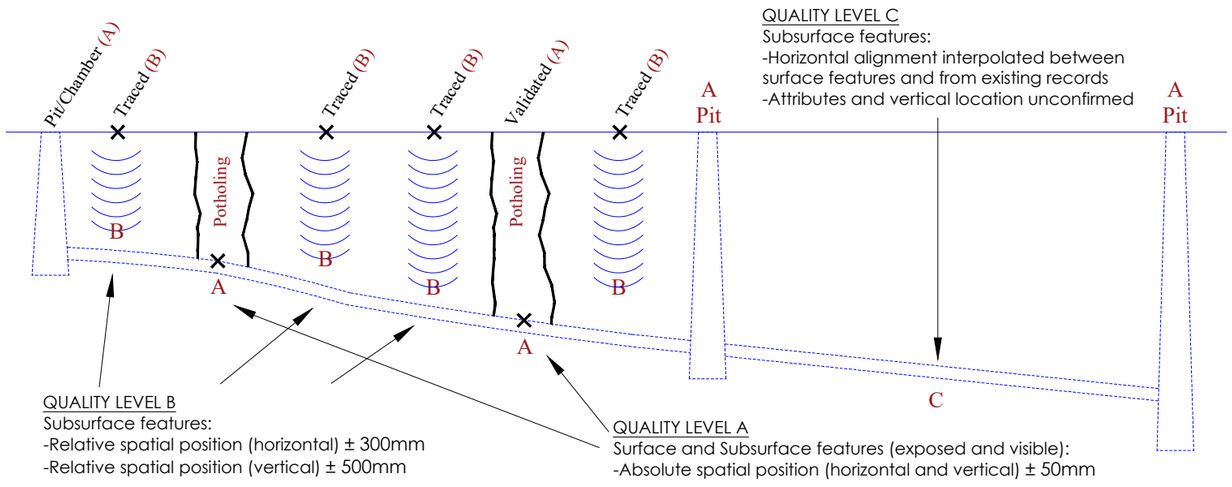
# VARYING QUALITY LEVELS

(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 (?P) | ?P |
| 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 (PWHY) | WH |
| WATER STOP VALVE (PWSV) | |
| WATER FIRE HYDRANT (PWFB) | |
| WATER METER (PWMR) | |
| METER (PGMR) | |
| PIPELINE MARKER (PGPM) | GP |
| GAS MANHOLE COVER (PGHL) | GMH |
| TELSTRA SINGLE CONC. PIT (PTSP) | |
| TELSTRA TWIN CONC. PIT (PTTP) | |
| TELSTRA DISTRIBUTION PILLAR | TDP |
| OPTICAL FIBRE PIT (POFP) | OFP |
| ELECTRIC CABLE MANHOLE (PEMH) | EMH |
| POLE - LIGHT (PLPL) | |
| POLE - POWER & LIGHT (PPLP) | |
| ELECTRIC CABLE JUNCTION BOX (PEJB) | EJB |
| TRAFFIC SIGNAL CONTROLLER (PSCL) | 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 |
|---|---|---|---|
| A | 03/06/20 | ORIGINAL UTILITIES PLAN | J.V. |

DISCLAIMER:

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W: www.veris.com.au
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.

DIAL BEFORE YOU DIG www.1100.com.au
THIS PLAN DOES NOT REPLACE DBYD PLANS

| | |
|---|---|
| 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 |

JOB NUMBER 202254

DRAWING NUMBER / ISSUE 202254-UTILS-001A

N
M.G.A

RAGLAN STREET

COPE STREET

PRIMUS Ø100 PVC (QL-A)
0.55m TOP OF PIPE
RL 15.555

PRIMUS Ø100 PVC (QL-A)
0.50m TOP OF PIPE
RL 15.640

PRIMUS Ø100 PVC (QL-C)
SIGNAL LOST

PRIMUS Ø100 PVC (QL-B)
2.0 to 2.1m TOP OF PIPE

PRIMUS Ø100 PVC (QL-D)
1.4 to 1.6m TOP OF PIPE
EOT (TRACE ROD OBSTRUCTED)

PRIMUS Ø100 PVC (QL-B)
0.55 to 0.8m TOP OF PIPE

OFP

TELSTRA Ø20 PVC (QL-A)
0.14m TOP OF PIPE
RL 16.227
EOT (EMPTY CONDUIT,
TRACE ROD UNABLE TO
NAVIGATE BEND)

TELSTRA Ø50 PVC (QL-B)
0.4 to 0.5m TOP OF PIPE

TELSTRA Ø20 PVC (QL-B)
0.15 to 0.45m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.45m TOP OF PIPE
RL 16.254

TELSTRA Ø100 (QL-B)
0.4 to 0.5m TOP OF PIPE
UNABLE TO ACCESS PIT

TELSTRA (QL-B)
0.4 to 0.5m TOP OF PIPE
UNABLE TO ACCESS PIT

TELSTRA Ø100 PVC (QL-B)
0.4 to 0.5m TOP OF PIPE

TELSTRA Ø20 PVC (QL-A)
0.25m TOP OF PIPE
RL 16.131

TELSTRA Ø20 PVC (QL-A)
0.16m TOP OF PIPE
RL 16.550

TELSTRA Ø50 PVC (QL-A)
0.42m TOP OF PIPE
RL 16.173

TELSTRA Ø50 PVC (QL-A)
0.17m TOP OF PIPE
RL 16.533

TELSTRA Ø100 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.216

TELSTRA Ø50 PVC (QL-A)
0.15m TOP OF PIPE
RL 16.502

TELSTRA Ø100 PVC (QL-B)
1.01 to 1.1m TOP OF PIPE

TELSTRA Ø20 PVC (QL-B)
0.4 to 0.5m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.17m TOP OF PIPE
RL 16.487

TELSTRA Ø100 (QL-B)
0.4 to 0.5m TOP OF PIPE

TELSTRA Ø50 PVC (QL-B)
0.2m TOP OF PIPE

ADJOINS SHEET 13

ADJOINS SHEET 4

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

JOHN HOLLAND

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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| HEIGHT DATUM: | AHD71 | CO-ORD: | MGA94 |
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 3 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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N

M.G.A

ADJOINS SHEET 3

ADJOINS SHEET 5

COPE STREET

PRIMUS Ø100 PVC (QL-A)
0.50m TOP OF PIPE
RL 15.640

PRIMUS Ø100 PVC (QL-A)
0.55m TOP OF PIPE
RL 15.555

OPTIC FIBRE Ø100 PVC (QL-A)
0.44m TOP OF PIPE
RL 15.384

TELSTRA Ø50 PVC (QL-A)
0.34m TOP OF PIPE
RL 15.484

TELSTRA Ø50 PVC (QL-A)
0.32m TOP OF PIPE
RL 15.546

TELSTRA Ø50 PVC (QL-A)
0.10m TOP OF PIPE
RL 15.689

TELSTRA Ø50 PVC (QL-A)
0.15m TOP OF PIPE
RL 15.635

TELSTRA Ø50 PVC (QL-A)
0.14m TOP OF PIPE
RL 15.551

TELSTRA Ø50 PVC (QL-A)
0.47m TOP OF PIPE
RL 15.439

TELSTRA Ø50 PVC (QL-B)
0.2 to 0.5m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.34m TOP OF PIPE
RL 15.473

NBN Ø100 PVC (QL-A)
0.44m TOP OF PIPE
RL 15.373

PRIMUS Ø100 PVC (QL-B)
0.55 to 1.0m TOP OF PIPE

TELSTRA Ø50 PVC (QL-B)
0.1 to 0.5m TOP OF PIPE

NBN Ø100 PVC (QL-B)
0.3 to 0.4m TOP OF PIPE

PRIMUS Ø100 PVC (QL-D)
AS PER DBYD

TELSTRA Ø100 PVC (QL-A)
0.47m TOP OF PIPE
RL 15.562

TELSTRA Ø50 PVC (QL-B)
0.1 to 0.3m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.47m TOP OF PIPE
RL 15.209

TELSTRA Ø50 PVC (QL-A)
0.25m TOP OF PIPE
RL 15.790

TELSTRA Ø100 (QL-A)
0.45m TOP OF PIPE
RL 15.509

NBN Ø100 PVC (QL-A)
0.44m TOP OF PIPE
RL 15.470

TELSTRA Ø100 PVC (QL-A)
0.4m TOP OF PIPE
RL 15.644

TELSTRA Ø100 PVC (QL-B)
0.5m TOP OF PIPE

TELSTRA Ø50 PVC (QL-B)
0.1 to 0.4m TOP OF PIPE

TELSTRA Ø50 PVC (QL-B)
0.1 to 0.2m TOP OF PIPE

TELSTRA Ø100 PVC (QL-B)
0.4 to 0.5m TOP OF PIPE

TELSTRA Ø100 PVC (QL-A)
0.44m TOP OF PIPE
RL 15.475

TELSTRA Ø50 PVC (QL-B)
0.1 to 0.3m TOP OF PIPE

TELSTRA Ø50 PVC (QL-B)
0.1 to 0.5m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.22m TOP OF PIPE
RL 15.429

TELSTRA Ø50 PVC (QL-A)
0.32m TOP OF PIPE
RL 15.600

TELSTRA Ø50 PVC (QL-A)
0.22m TOP OF PIPE
RL 15.420

TELSTRA Ø50 PVC (QL-A)
0.13m TOP OF PIPE
RL 15.507

TELSTRA Ø50 PVC (QL-B)
0.1 to 0.2m TOP OF PIPE

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

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CLIENT

JOHN HOLLAND

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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| HEIGHT DATUM: | AHD71 | CO-ORD: | MGA94 |
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 4 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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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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| ORIGINAL SIZE : | A3 | SHEET: | 5 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
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ADJOINS SHEET 5

ADJOINS SHEET 8

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N

MGA94

COPE STREET

WELLINGTON STREET

OPTIC FIBRE Ø50 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.348

OPTIC FIBRE Ø50 PVC (QL-A)
0.25m TOP OF PIPE
RL 14.601

OPTIC FIBRE Ø50 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.358

OPTIC FIBRE Ø50 PVC (QL-A)
0.42m TOP OF PIPE
RL 14.402

OPTIC FIBRE Ø50 PVC (QL-A)
0.22m TOP OF PIPE
RL 14.629

OPTIC FIBRE Ø50 PVC (QL-A)
0.25m TOP OF PIPE
RL 14.661

TELSTRA Ø50 PVC (QL-A)
0.2m TOP OF PIPE
RL 14.727

TELSTRA Ø50 PVC (QL-B)
0.2 to 0.25m TOP OF PIPE

TELSTRA 20X Ø100 AC (QL-B)
0.7 to 1.01m TOP OF PIPE
UTL QL-A (CONFINED SPACE)

OPTIC FIBRE Ø20 PVC (QL-A)
0.2m TOP OF PIPE
RL 14.724

OPTIC FIBRE Ø20 PVC (QL-A)
0.15m TOP OF PIPE
RL 14.756

TPG 4X5 Ø100 AC (QL-B)
0.7 to 1.3m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.12m TOP OF PIPE
RL 14.761

TELSTRA Ø50 PVC (QL-A)
0.12m TOP OF PIPE
RL 14.764

TELSTRA Ø20 PVC (QL-A)
0.2m TOP OF PIPE
RL 14.683

TELSTRA Ø50 PVC (QL-B)
0.29m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.18m TOP OF PIPE

TELSTRA 2X Ø50 PVC (QL-A)
0.2m TOP OF PIPE

TELSTRA Ø20 PVC (QL-B)
0.2 to 0.4m TOP OF PIPE

TPG Ø100 AC (QL-A)
0.55m TOP OF PIPE
RL 14.219

PRIMUS Ø100 PVC (QL-D)
AS PER DBYD

TPG 4X5 Ø100 AC (QL-B)
0.7 to 1.3m TOP OF PIPE
UTL QL-A (CONFINED SPACE)

TELSTRA Ø100 PVC (QL-A)
0.47m TOP OF PIPE
RL 14.353

TELSTRA Ø50 PVC (QL-A)
0.38m TOP OF PIPE
RL 14.495

TELSTRA Ø20 CI (QL-B)
0.2 to 0.3m TOP OF PIPE

TELSTRA Ø50 PVC (QL-B)
0.2m TOP OF PIPE

PRIMUS Ø100 PVC (QL-D)
AS PER DBYD

PRIMUS Ø100 PVC (QL-D)
AS PER DBYD

TELSTRA Ø40 RC (QL-A)
0.12m TOP OF PIPE
RL 14.811

TELSTRA Ø40 RC (QL-A)
0.13m TOP OF PIPE
RL 14.803

TELSTRA 20X Ø100 AC (QL-B)
0.6 to 1.01m TOP OF PIPE
UTL QL-A (CONFINED SPACE)

TPG Ø100 AC (QL-A)
0.5m TOP OF PIPE
RL 14.257

TPG Ø50 PVC (QL-A)
0.17m TOP OF PIPE
RL 14.591

TPG Ø100 PVC (QL-A)
0.38m TOP OF PIPE
RL 14.434

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.319

TELSTRA Ø100 PVC (QL-A)
0.37m TOP OF PIPE
RL 14.494

TELSTRA Ø20 CI (QL-A)
0.28m TOP OF PIPE
RL 14.595

TELSTRA Ø50 PVC (QL-A)
0.4m TOP OF PIPE
RL 14.544

TELSTRA Ø50 PVC (QL-A)
0.55m TOP OF PIPE
RL 14.419

TPG Ø50 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.476

TPG Ø50 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.476

TELSTRA Ø50 PVC (QL-A)
0.46m TOP OF PIPE
RL 14.453

TELSTRA Ø50 PVC (QL-A)
0.38m TOP OF PIPE
RL 14.523

TPG Ø100 PVC (QL-A)
0.38m TOP OF PIPE
RL 14.475

TPG Ø50 PVC (QL-A)
0.22m TOP OF PIPE
RL 14.637

TELSTRA Ø50 PVC (QL-B)
0.1m TOP OF PIPE

TPG Ø50 PVC (QL-B)
0.5m TOP OF PIPE
EOT (TRACE ROD OBSTRUCTED)

TPG Ø50 PVC (QL-D)
AS PER DBYD

TELSTRA Ø50 PVC (QL-A)
0.1m TOP OF PIPE
RL 15.082

TELSTRA Ø50 PVC (QL-A)
0.45m TOP OF PIPE
RL 14.734

TELSTRA Ø50 PVC (QL-A)
0.2m TOP OF PIPE
RL 14.984

TELSTRA Ø50 PVC (QL-B)
0.34m TOP OF PIPE

TELSTRA 20X Ø100 AC (QL-B)
0.6 to 1.01m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.45m TOP OF PIPE
RL 14.739

TELSTRA Ø50 PVC (QL-A)
0.4m TOP OF PIPE
RL 14.781

TELSTRA Ø100 PVC (QL-B)
0.5 to 0.6m TOP OF PIPE

TSP

OFP

ADJOINS SHEET 7

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

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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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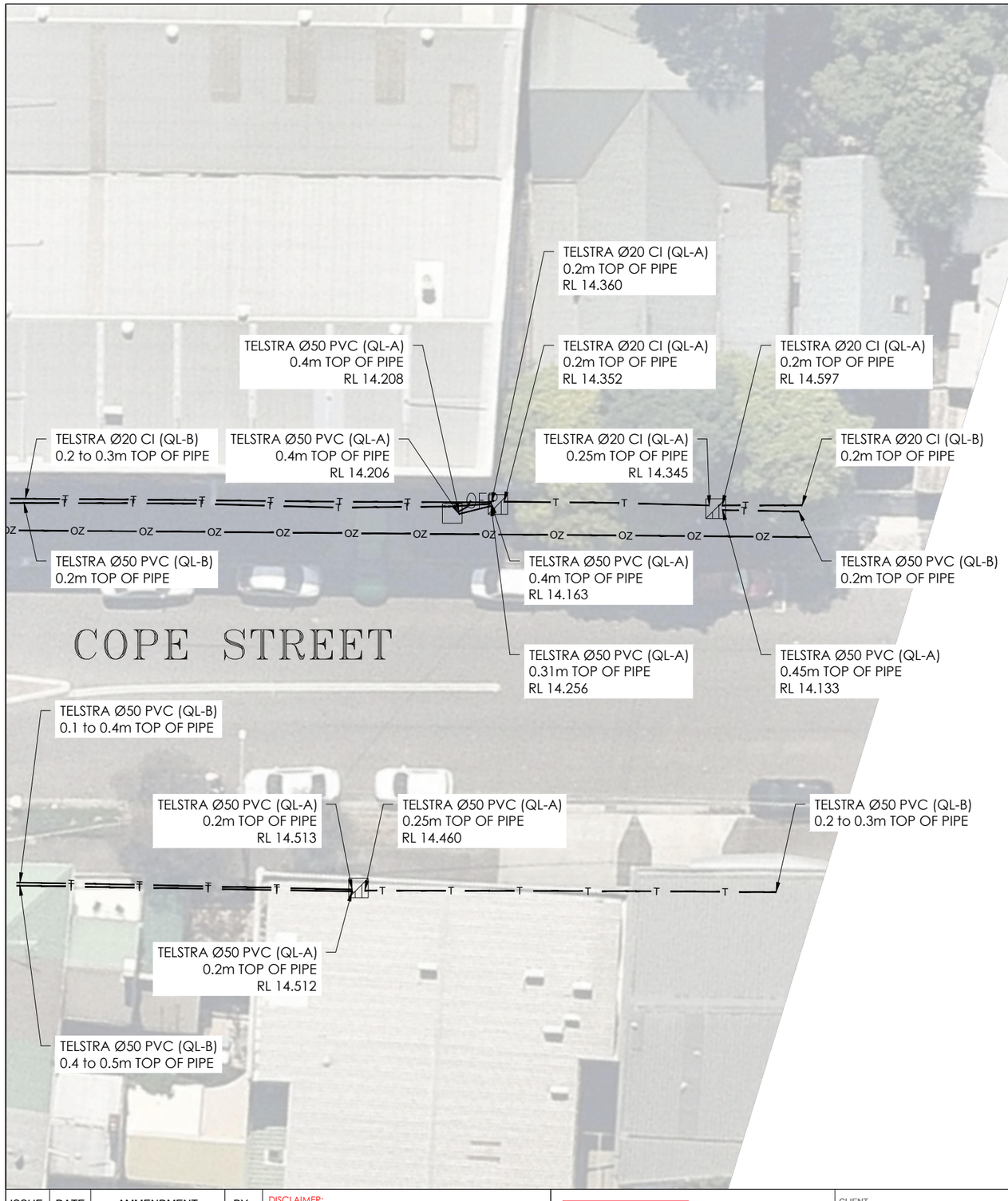
| | | | |
|---|---|---|---|
| DATE OF SURVEY: | 24/06/2020 | DATE OF PLAN: | 03/06/2020 |
| HEIGHT DATUM: | AHD71 | CO-ORD: | MGA94 |
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 6 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A




ADJOINS SHEET 7

N

M.G.A

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

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ABN 53 615 735 727

CLIENT

JOHN HOLLAND

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. |
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| ORIGINAL SIZE : | A3 | SHEET: | 7 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
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ADJOINS SHEET 9

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N

M.G.A

TELSTRA Ø50 PVC (QL-B)
0.14 to 0.4m TOP OF PIPE

NBN Ø100 PVC (QL-A)
0.36m TOP OF PIPE
RL 14.848

NBN Ø50 PVC (QL-B)
0.45m TOP OF PIPE
RL 14.704

TELSTRA Ø50 PVC (QL-A)
0.22m TOP OF PIPE
RL 15.037

NBN Ø100 PVC (QL-A)
0.48m TOP OF PIPE
RL 14.745

TELSTRA Ø100 PVC (QL-B)
0.47 to 0.6m TOP OF PIPE

NBN Ø50 PVC (QL-A)
0.46m TOP OF PIPE
RL 14.772

TELSTRA 2X Ø100 PVC (QL-A)
0.47m TOP OF PIPE

NBN Ø100 PVC (QL-A)
0.36m TOP OF PIPE
RL 14.884

TELSTRA Ø50 PVC (QL-A)
0.15m TOP OF PIPE
RL 15.140

NBN Ø100 PVC (QL-A)
0.37m TOP OF PIPE
RL 14.887

TELSTRA Ø50 PVC (QL-B)
0.26 to 0.45m TOP OF PIPE

TELSTRA (QL-B)
0.5 to 0.55m TOP OF PIPE

TELSTRA Ø32 PVC (QL-B)
0.4 to 0.46m TOP OF PIPE

CONFINED SPACE

TELSTRA Ø32 PVC (QL-A)
0.25m TOP OF PIPE
RL 14.939

TELSTRA 3X Ø100 E (QL-B)
0.6 to 0.8m TOP OF PIPE

NBN Ø100 PVC (QL-B)
0.38 to 0.6m TOP OF PIPE

TELSTRA Ø32 PVC (QL-A)
0.3m TOP OF PIPE
RL 14.890

TELSTRA 4X3 Ø100 PVC (QL-B)
1.2 to 1.4m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.48m TOP OF PIPE
RL 14.714

TELSTRA Ø32 CICL (QL-A)
0.3m TOP OF PIPE
RL 14.878

NBN Ø100 PVC (QL-A)
0.45m TOP OF PIPE
RL 14.850

TELSTRA 4X3 Ø100 PVC (QL-B)
1.2 to 1.4m TOP OF PIPE

TELSTRA Ø20 PVC (QL-B)
0.1m TOP OF PIPE

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.808

NBN Ø100 PVC (QL-C)
0.5m TOP OF PIPE

CONFINED SPACE

TELSTRA 4X4 Ø100 AC (QL-B)
1.4 to 1.6m TOP OF PIPE
UTL QL-A (CONFINED SPACE)

TELSTRA Ø150 PVC (QL-B)
0.3m TOP OF PIPE

TELSTRA Ø32 PVC (QL-B)
0.2 to 0.3m TOP OF PIPE
RL 15.105

TELSTRA Ø20 PVC (QL-B)
0.2m TOP OF PIPE

TELSTRA Ø20 PVC (QL-A)
0.18m TOP OF PIPE
RL 15.156

TELSTRA Ø50 PVC (QL-A)
0.33m TOP OF PIPE
RL 15.008

TELSTRA Ø50 PVC (QL-A)
0.2m TOP OF PIPE
RL 15.141

TELSTRA Ø50 PVC (QL-A)
0.3m TOP OF PIPE
RL 15.115

TELSTRA Ø50 PVC (QL-A)
0.22m TOP OF PIPE
RL 15.192

TELSTRA 3X Ø90 E (QL-B)
0.5 to 0.62m TOP OF PIPE

NBN Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.837

NBN Ø50 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.872

TELSTRA 3X Ø90 E (QL-B)
0.5 to 0.62m TOP OF PIPE

TELSTRA Ø100 PVC (QL-B)
0.5m TOP OF PIPE

TELSTRA Ø100 PVC (QL-A)
0.49m TOP OF PIPE
RL 14.685

TELSTRA Ø50 PVC (QL-A)
0.41m TOP OF PIPE
RL 14.804

TELSTRA Ø50 PVC (QL-A)
0.41m TOP OF PIPE
RL 14.783

TELSTRA Ø100 PVC (QL-A)
0.48m TOP OF PIPE
RL 14.723

TELSTRA Ø100 PVC (QL-A)
0.4m TOP OF PIPE
RL 14.920

TELSTRA 2X Ø100 PVC (QL-A)
0.2m TOP OF PIPE
RL 15.117

CONFINED SPACE

TELSTRA 2X Ø100 PVC (QL-B)
0.4m TOP OF PIPE

TELSTRA Ø100 AC (QL-A)
0.59m TOP OF PIPE
RL 14.844

TELSTRA Ø100 AC (QL-A)
0.59m TOP OF PIPE
RL 14.853

TELSTRA 2X Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.854

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.887

TELSTRA 3X Ø100 AC (QL-A)
1.2m TOP OF PIPE
RL 14.218

TELSTRA Ø100 PVC (QL-A)
0.35m TOP OF PIPE
RL 15.091

TELSTRA Ø20 PVC (QL-A)
0.47m TOP OF PIPE
RL 14.999

TELSTRA Ø20 PVC (QL-A)
0.35m TOP OF PIPE
RL 15.153

TELSTRA Ø20 PVC (QL-A)
0.25m TOP OF PIPE
RL 15.220

TELSTRA Ø20 PVC (QL-A)
0.3m TOP OF PIPE
RL 15.239

TELSTRA Ø50 PVC (QL-A)
0.2m TOP OF PIPE
RL 15.319

TELSTRA Ø100 AC (QL-A)
0.2m TOP OF PIPE
RL 15.297

TELSTRA Ø100 AC (QL-B)
0.2m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.2m TOP OF PIPE
RL 15.311

TELSTRA Ø40 PVC (QL-A)
0.38m TOP OF PIPE
RL 14.940

TELSTRA Ø50 PVC (QL-A)
0.36m TOP OF PIPE
RL 14.993

TELSTRA Ø100 AC (QL-B)
0.55 to 0.6m TOP OF PIPE
UTL QL-A (CONFINED SPACE)

TELSTRA Ø50 PVC (QL-A)
0.2m TOP OF PIPE
RL 15.266

TELSTRA Ø50 PVC (QL-B)
0.18 to 0.33m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.2m TOP OF PIPE
RL 14.962

TELSTRA (QL-A)
0.25m TOP OF PIPE
RL 14.900

TELSTRA Ø50 PVC (QL-B)
0.2 to 0.25m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.3m TOP OF PIPE
RL 15.128

TELSTRA 2X Ø50 PVC (QL-C)

TELSTRA Ø20 PVC (QL-C)

TELSTRA Ø50 PVC (QL-C)

TELSTRA 2X Ø50 PVC (QL-A)
0.1m TOP OF PIPE
RL 15.231

TELSTRA Ø50 PVC (QL-A)
0.14m TOP OF PIPE
RL 15.185

TELSTRA Ø50 PVC (QL-A)
0.18m TOP OF PIPE
RL 15.027

TELSTRA Ø50 PVC (QL-A)
0.2m TOP OF PIPE
RL 15.063

TSP TDP TB OFP OU

BOTANY ROAD

WELLINGTON STREET

ADJOINS SHEET 6

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

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W: www.veris.com.au
ABN 53 615 735 727

CLIENT: JOHN HOLLAND

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. |
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| APPROVED BY: | D.M. |

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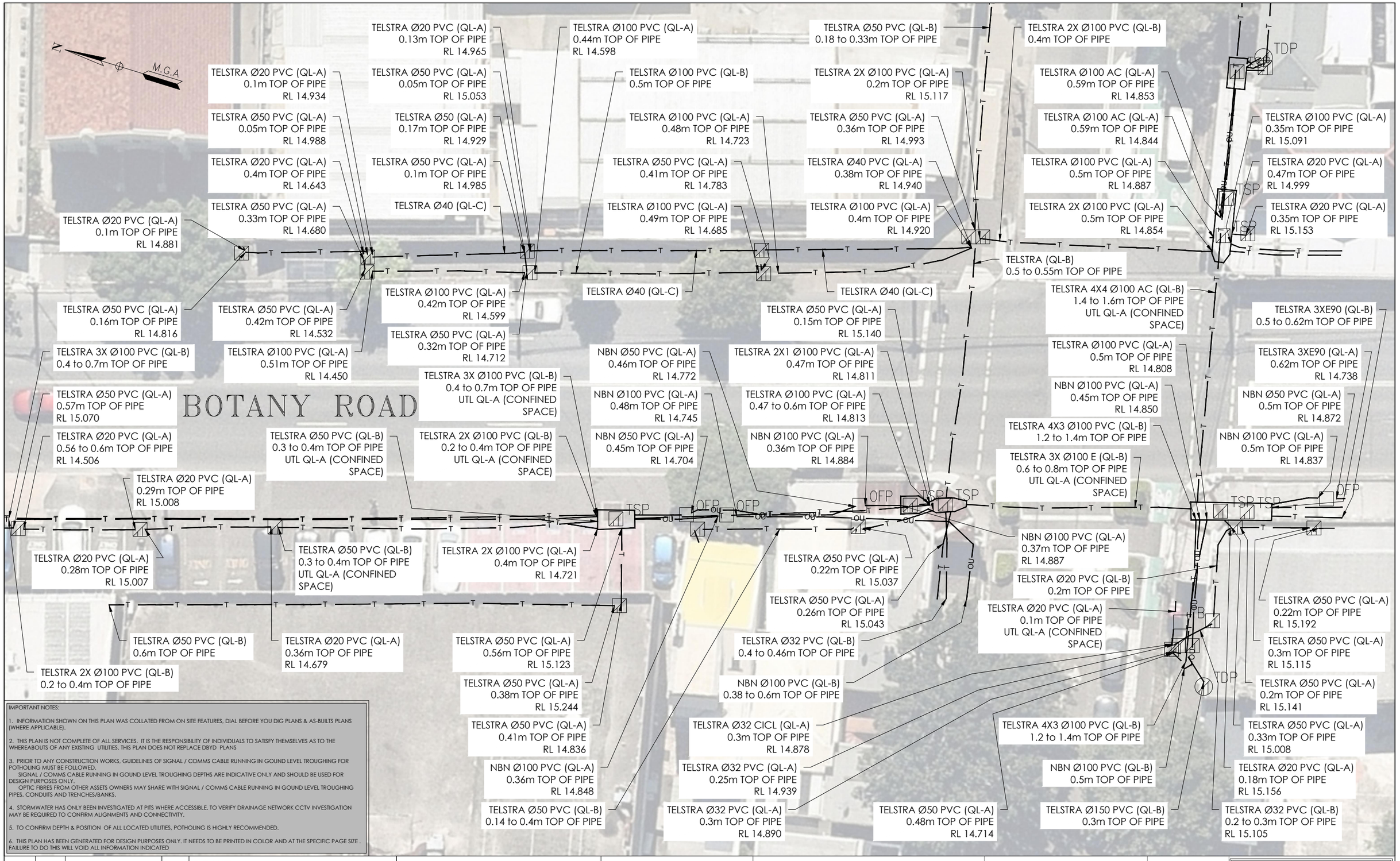
| ORIGINAL SIZE : | A3 | SHEET: | 8 OF 75 |

JOB NUMBER: 202254

DRAWING NUMBER / ISSUE: 202254-UTILS-001A

ADJOINS SHEET 8

ADJOINS SHEET 10

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

TELEPHONY AND COMMS

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

SCALE IN METERS 1: 250

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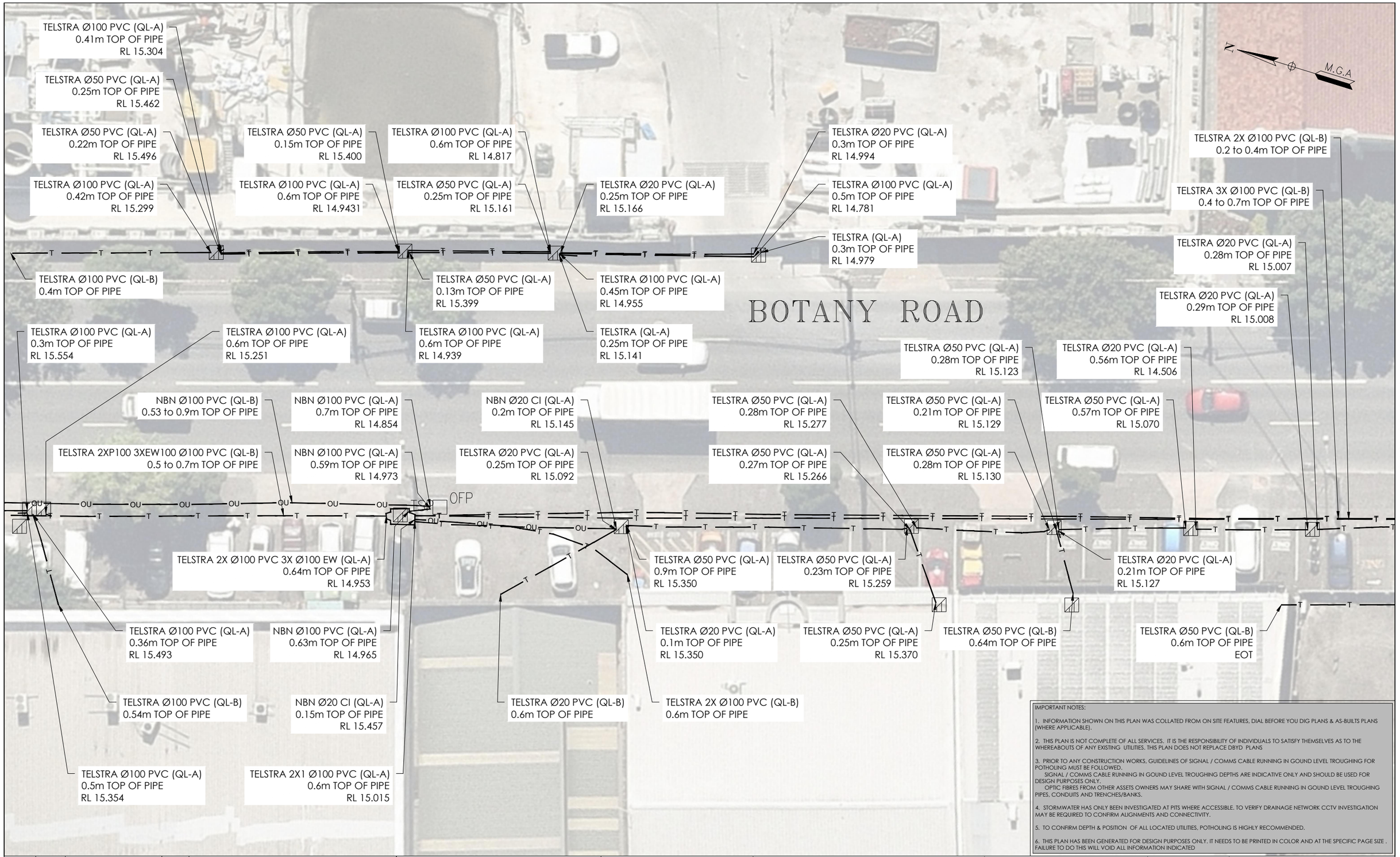
| ORIGINAL SIZE : A3 | SHEET: 9 OF 75 |




ADJOINS SHEET 11

ADJOINS SHEET 9

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DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
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| ORIGINAL SIZE : | A3 | SHEET: | 10 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 9

ADJOINS SHEET 12

ADJOINS SHEET 10

TELSTRA Ø100 (QL-B)
0.5m TOP OF PIPE
UTL QL-A
(CONFINED SPACE)

TELSTRA Ø50 (QL-B)
0.3m TOP OF PIPE
UTL QL-A (CONFINED
SPACE)

TELSTRA 2x2 Ø100 (QL-B)
0.5m TOP OF PIPE
UTL QL-A (CONFINED
SPACE)

TELSTRA Ø80 PVC (QL-A)
0.7m TOP OF PIPE
RL 16.014

TDP

TELSTRA Ø50 PVC (QL-A)
0.25m TOP OF PIPE
RL 16.425

TELSTRA 2X2 Ø100 PVC (QL-A)
0.53m TOP OF PIPE
RL 16.037

TELSTRA Ø100 PVC (QL-A)
0.29m TOP OF PIPE
RL 16.388

TELSTRA Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 16.010

TELSTRA 2X2 Ø100 PVC (QL-A)
0.46m TOP OF PIPE
RL 16.137

TELSTRA Ø100 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.212

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.171

TELSTRA Ø100 PVC (QL-D)
(GPR)

TELSTRA Ø100 PVC (QL-D)
(GPR)

TELSTRA 3X2 (QL-A)
1.5m TOP OF PIPE
RL 15.196

TELSTRA Ø100 PVC (QL-A)
0.57m TOP OF PIPE
RL 16.189

TELSTRA 3X2 Ø100 AC (QL-A)
1.4m TOP OF PIPE
RL 15.395

TELSTRA Ø20 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.493

TELSTRA Ø50 PVC (QL-A)
0.27m TOP OF PIPE
RL 16.560

NBN Ø50 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.538

TELSTRA Ø100 PVC (QL-A)
0.25m TOP OF PIPE
RL 16.095

TELSTRA Ø50 PVC (QL-A)
0.2m TOP OF PIPE
RL 16.128

TELSTRA 4X Ø100 PVC (QL-A)
1.01m TOP OF PIPE
RL 15.376

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.053

TELSTRA 3X Ø90 (QL-A)
0.6m TOP OF PIPE
RL 15.797

TELSTRA Ø100 PVC (QL-A)
0.4m TOP OF PIPE
RL 15.998

TELSTRA Ø32 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.539

TELSTRA 2X1 Ø100 PVC (QL-A)
0.8m TOP OF PIPE
RL 16.038

TELSTRA Ø50 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.531

TELSTRA Ø50 AC (QL-A)
0.3m TOP OF PIPE
RL 16.030

TELSTRA Ø50 AC (QL-A)
0.15m TOP OF PIPE
RL 15.976

TELSTRA Ø50 AC (QL-A)
0.15m TOP OF PIPE
RL 15.990

TELSTRA Ø100 PVC (QL-A)
0.3m TOP OF PIPE
RL 15.936

TELSTRA 4X Ø100 PVC (QL-A)
0.43m TOP OF PIPE
RL 15.809

TELSTRA Ø50 PVC (QL-A)
0.24m TOP OF PIPE
RL 16.033

TELSTRA Ø100 PVC (QL-A)
0.31m TOP OF PIPE
RL 15.969

NEXTGEN Ø100 PVC (QL-B)
0.6 to 1.1m TOP OF PIPE

TELSTRA Ø100 PVC (QL-A)
0.42m TOP OF PIPE
RL 15.746

TELSTRA Ø100 PVC (QL-A)
0.4m TOP OF PIPE
RL 15.998

TELSTRA 2X Ø100 PVC 3X Ø100 EW (QL-B)
0.6m TOP OF PIPE

TELSTRA Ø100 PVC (QL-B)
0.3 to 0.6m TOP OF PIPE

NBN Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 15.876
(BLOCKED)

TELSTRA PVC (QL-A)
0.1m TOP OF PIPE
RL 15.915

TELSTRA Ø50 PVC (QL-A)
0.29m TOP OF PIPE
RL 15.713

TELSTRA Ø50 AC (QL-A)
0.1m TOP OF PIPE
RL 15.915

TELSTRA PVC (QL-A)
0.1m TOP OF PIPE
RL 15.915

TELSTRA Ø50 PVC (QL-A)
0.29m TOP OF PIPE
RL 15.713

TELSTRA Ø50 AC (QL-A)
0.1m TOP OF PIPE
RL 15.915

TELSTRA Ø100 PVC (QL-A)
0.26m TOP OF PIPE
RL 15.873

TELSTRA Ø100 PVC (QL-A)
0.42m TOP OF PIPE
RL 15.707

TELSTRA Ø50 PVC (QL-A)
0.3m TOP OF PIPE
RL 15.616

TELSTRA Ø50 PVC (QL-A)
0.15m TOP OF PIPE
RL 15.804

TELSTRA Ø50 PVC (QL-A)
0.2m TOP OF PIPE
RL 15.752

TELSTRA Ø100 PVC (QL-A)
0.4m TOP OF PIPE
RL 15.546

TELSTRA Ø100 PVC (QL-A)
0.37m TOP OF PIPE
RL 15.481

TELSTRA Ø50 PVC (QL-A)
0.3m TOP OF PIPE
RL 15.540

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 15.544

TELSTRA Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 15.444

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 15.355

TELSTRA Ø100 PVC (QL-A)
0.49m TOP OF PIPE
RL 15.350

TELSTRA Ø100 PVC (QL-A)
0.42m TOP OF PIPE
RL 15.299

TELSTRA Ø100 PVC (QL-B)
0.4m TOP OF PIPE

TELSTRA Ø100 PVC (QL-A)
0.3m TOP OF PIPE
RL 15.554

TELSTRA Ø100 PVC (QL-A)
0.36m TOP OF PIPE
RL 15.493

TELSTRA Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 15.251

TELSTRA Ø100 PVC (QL-A)
0.54m TOP OF PIPE
RL 15.314

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 15.354

NEXTGEN Ø100 PVC (QL-B)
0.53 to 0.9m TOP OF PIPE

TELSTRA 2X Ø100 PVC 3X Ø100 EW (QL-B)
0.5 to 0.7m TOP OF PIPE

BOTANY ROAD

M.G.A

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

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ABN 53 615 735 727

CLIENT

JOHN HOLLAND

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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| | |
|---|---|
| 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: 11 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 13

N
M.G.A

TELSTRA Ø32 PVC (QL-A)
0.2m TOP OF PIPE
RL 17.420

TELSTRA Ø32 PVC (QL-A)
0.2m TOP OF PIPE
RL 17.114

TELSTRA Ø80 PVC (QL-A)
0.42m TOP OF PIPE
RL 16.547

TELSTRA (QL-A)
0.65m TOP OF PIPE
RL 16.089

TELSTRA Ø50 PVC (QL-A)
0.45m TOP OF PIPE
RL 17.167

TELSTRA Ø50 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.814

TELSTRA Ø100 PVC (QL-A)
0.22m TOP OF PIPE
RL 16.783

TELSTRA Ø150 PVC (QL-A)
0.35m TOP OF PIPE
RL 16.406

TELSTRA Ø20 PVC (QL-A)
0.15m TOP OF PIPE
RL 17.458

TELSTRA Ø32 PVC (QL-A)
0.16m TOP OF PIPE
RL 17.159

TELSTRA Ø100 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.738

TELSTRA Ø80 PVC (QL-A)
0.7m TOP OF PIPE
RL 16.014

TDP

TELSTRA Ø50 PVC (QL-A)
0.4m TOP OF PIPE
RL 17.206

TELSTRA Ø20 PVC (QL-A)
0.16m TOP OF PIPE
RL 17.157

TELSTRA Ø32 PVC (QL-A)
0.15m TOP OF PIPE
RL 16.891

TELSTRA Ø20 PVC (QL-A)
0.32m TOP OF PIPE
RL 17.464

TELSTRA Ø50 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.814

TELSTRA Ø50 PVC (QL-B)
0.2 to 0.3m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.25m TOP OF PIPE
RL 16.425

TELSTRA Ø50 PVC (QL-A)
0.22m TOP OF PIPE
RL 17.583

TELSTRA Ø100 PVC (QL-A)
0.29m TOP OF PIPE
RL 16.388

TELSTRA Ø100 PVC (QL-B)
0.5 to 0.6m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.3m TOP OF PIPE
RL 17.300

TELSTRA Ø50 PVC (QL-A)
0.4m TOP OF PIPE
RL 17.142

TELSTRA Ø32 PVC (QL-A)
0.2m TOP OF PIPE
RL 16.962

TELSTRA Ø100 CI (QL-A)
0.4m TOP OF PIPE
RL 16.632

TELSTRA Ø100 PVC (QL-D)
(GPR)

TELSTRA Ø50 PVC (QL-A)
0.4m TOP OF PIPE
RL 17.381

TELSTRA Ø50 PVC (QL-A)
0.15m TOP OF PIPE
RL 17.322

TELSTRA Ø32 PVC (QL-A)
0.12m TOP OF PIPE
RL 17.425

TELSTRA Ø50 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.760

TELSTRA Ø100 (QL-A)
0.7m TOP OF PIPE
RL 16.337

TELSTRA 6X (QL-A)
1.5m TOP OF PIPE
RL 15.196
UTL

BOTANY ROAD

TELSTRA Ø100 PVC (QL-A)
0.47m TOP OF PIPE
RL 16.996

TELSTRA Ø50 PVC (QL-A)
0.45m TOP OF PIPE
RL 17.071

TELSTRA Ø100 PVC (QL-A)
0.3 to 0.5m TOP OF PIPE
RL 16.779

TELSTRA 3X Ø90 PVC 3X Ø100 PVC (QL-A)
0.9m TOP OF PIPE
RL 15.811

TELSTRA 6X Ø90 PVC 1X Ø100 PVC (QL-B)
0.4 to 0.5m TOP OF PIPE

TELSTRA Ø100 PVC (QL-A)
0.49m TOP OF PIPE
RL 16.971

TELSTRA Ø32 PVC (QL-A)
0.25m TOP OF PIPE
RL 17.273

TELSTRA Ø32 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.867

TELSTRA Ø100 AC (QL-A)
0.45m TOP OF PIPE
RL 16.270

RAGLAN STREET

TB

TELSTRA Ø100 PVC (QL-A)
0.45m TOP OF PIPE
RL 17.596

TELSTRA Ø32 PVC (QL-A)
0.2m TOP OF PIPE
RL 16.854

TELSTRA Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 16.177

TELSTRA 6X Ø90 PVC 1X Ø100 PVC (QL-A)
1.4m TOP OF PIPE
RL 16.053

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.992

TELSTRA Ø100 AC (QL-A)
1.05m TOP OF PIPE
RL 15.772

TELSTRA Ø32 PVC (QL-B)
0.25 to 0.3m TOP OF PIPE

TELSTRA Ø100 PVC (QL-A)
0.57m TOP OF PIPE
RL 16.887

TELSTRA
4X Ø85 PVC (QL-B)
0.35m TOP OF PIPE

TELSTRA
3 XØ90 PVC
3X Ø100 PVC (QL-A)
1.05m TOP OF PIPE
RL 15.777

TELSTRA Ø100 PVC (QL-A)
0.65m TOP OF PIPE
RL 16.793

NBN Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 16.244

NBN Ø100 PVC (QL-A)
0.55m TOP OF PIPE
RL 16.281

TELSTRA 3X2 Ø100 (QL-A)
1.05m TOP OF PIPE
RL 16.331

NBN Ø150 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.338

TELSTRA 4X Ø85 PVC (QL-B)
0.35m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.36m TOP OF PIPE
RL 16.470

TELSTRA 3X2 Ø100 AC (QL-B)
0.74 to 1.8m TOP OF PIPE

TELSTRA Ø100 PVC (QL-B)
0.3 to 0.4m TOP OF PIPE

TELSTRA Ø100 PVC (QL-A)
0.8m TOP OF PIPE
RL 15.979

NBN Ø50 PVC (QL-B)
0.45 to 0.5m TOP OF PIPE

TELSTRA 3X2 Ø100 (QL-A)
0.72m TOP OF PIPE
RL 16.385

TELSTRA 5X Ø100 PVC
1X Ø20 PVC (QL-B)
0.3 to 0.75m TOP OF PIPE

NBN Ø100 PVC (QL-A)
0.42m TOP OF PIPE
RL 16.373

NBN Ø50 PVC (QL-D)
(GPR)

ADJOINS SHEET 11

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

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ABN 53 615 735 727

CLIENT
JOHN HOLLAND

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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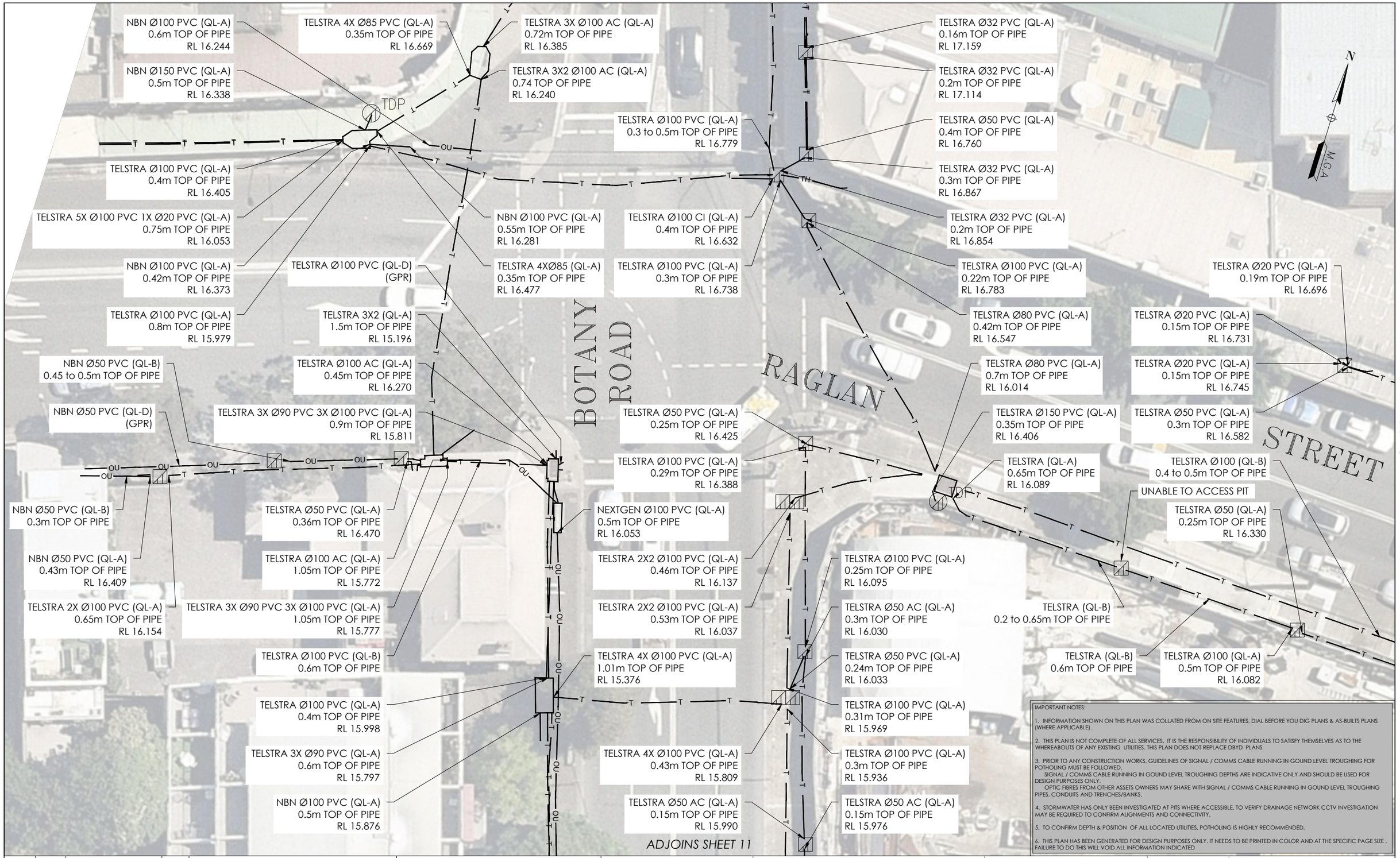
| | | | |
|---|---|---|---|
| DATE OF SURVEY: | 24/06/2020 | DATE OF PLAN: | 03/06/2020 |
| HEIGHT DATUM: | AHD71 | CO-ORD: | MGA94 |
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 12 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 12

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CLIENT
JOHN HOLLAND

PROJECT TITLE
WATERLOO STATION
TELEPHONY AND COMMS

DRAWING TITLE
SUB-SURFACE UTILITY PLAN

SCALE IN METERS 1: 250 (0 2 4 6 8 10)

| | |
|---|---|
| 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: 13 OF 75 |

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 3

ADJOINS SHEET 13

TELSTRA Ø50 PVC (QL-A)
0.24m TOP OF PIPE
RL 16.594

TELSTRA Ø20 PVC (QL-A)
0.16m TOP OF PIPE
RL 16.550

TELSTRA Ø50 PVC (QL-A)
0.45m TOP OF PIPE
RL 16.254

TELSTRA Ø50 PVC (QL-B)
0.2m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.17m TOP OF PIPE
RL 16.533

TELSTRA Ø50 PVC (QL-A)
0.24m TOP OF PIPE
RL 16.580

TELSTRA Ø50 PVC (QL-A)
0.17m TOP OF PIPE
RL 16.487

TELSTRA Ø100 PVC (QL-B)
1.01 to 1.1m TOP OF PIPE

TELSTRA Ø50 PVC (QL-A)
0.15m TOP OF PIPE
RL 16.502

OFP

TELSTRA Ø100 (QL-A)
0.5m TOP OF PIPE
RL 16.082

TELSTRA Ø100 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.216

TELSTRA Ø50 (QL-A)
0.25m TOP OF PIPE
RL 16.330

TELSTRA Ø50 PVC (QL-A)
0.42m TOP OF PIPE
RL 16.173

TELSTRA Ø100 (QL-B)
0.4 to 0.5m TOP OF PIPE

PRIMUS Ø100 PVC (QL-C)
SIGNAL LOST

TELSTRA Ø50 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.123

TELSTRA (QL-B)
0.4 to 0.5m TOP OF PIPE
UNABLE TO ACCESS PIT

TELSTRA Ø20 PVC (QL-B)
0.4 to 0.5m TOP OF PIPE
EOT

TELSTRA Ø100 (QL-B)
0.4 to 0.5m TOP OF PIPE

TELSTRA Ø20 PVC (QL-A)
0.25m TOP OF PIPE
RL 16.131

TELSTRA Ø20 PVC (QL-A)
0.14m TOP OF PIPE
RL 16.227
EOT (EMPTY CONDUIT,
TRACE ROD UNABLE TO
NAVIGATE BEND)

COPE STREET

RAGLAN STREET

PRIMUS Ø100 PVC (QL-B)
2.0 to 2.1m TOP OF PIPE

OFP

NBN Ø100 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.120

NBN Ø50 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.480

NBN Ø100 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.486

OFP

PRIMUS Ø100 PVC (QL-A)
0.50m TOP OF PIPE
RL 15.640

PRIMUS Ø100 PVC (QL-A)
0.55m TOP OF PIPE
RL 15.555

PRIMUS Ø100 PVC (QL-B)
0.55 to 0.8m TOP OF PIPE

TELSTRA Ø100 PVC (QL-B)
0.4 to 0.5m TOP OF PIPE

ADJOINS SHEET 4

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N

M.G.A

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

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W: www.veris.com.au
ABN 53 615 735 727

CLIENT
JOHN HOLLAND

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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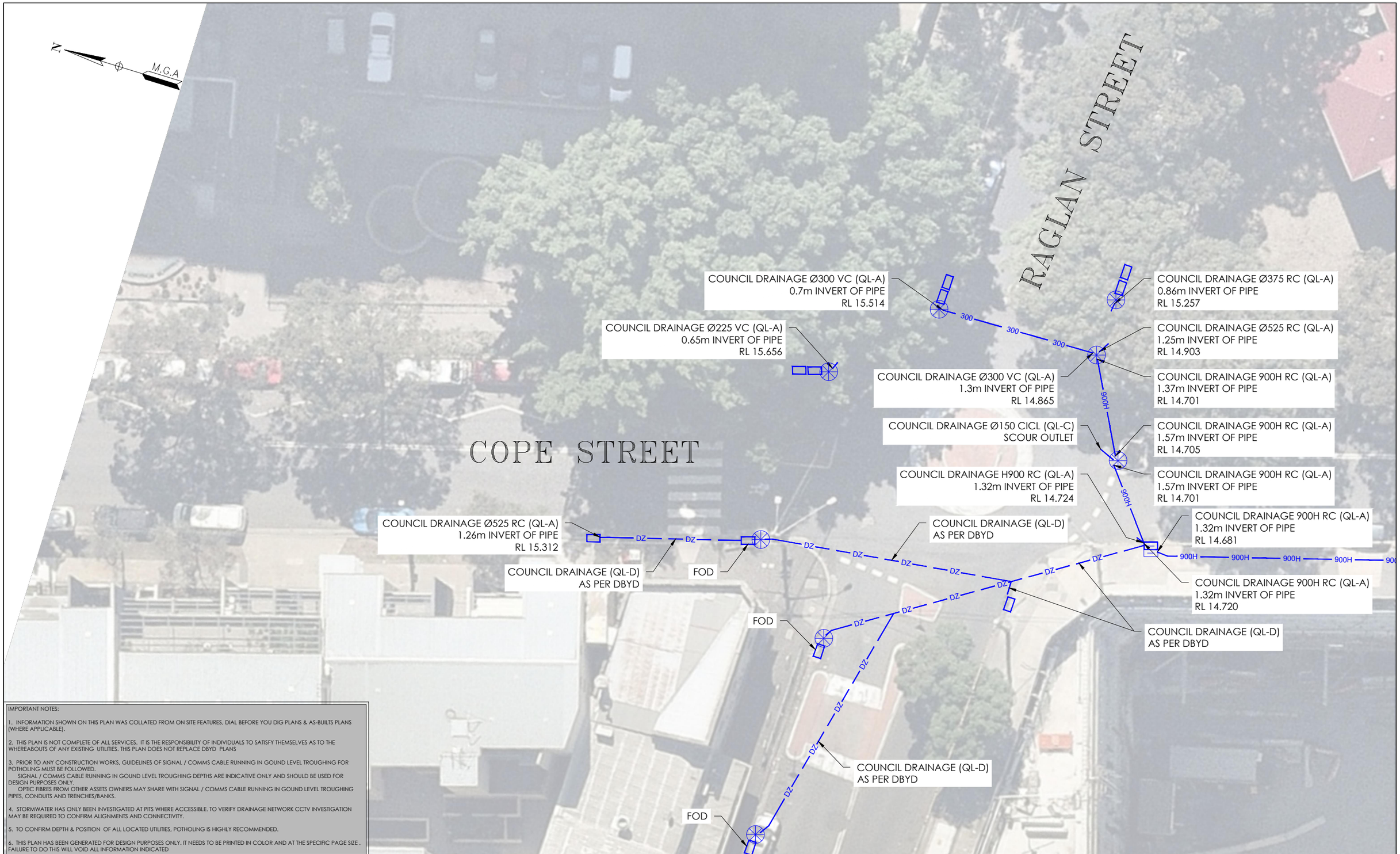
| DATE OF SURVEY: 24/06/2020 | DATE OF PLAN: 03/06/2020 |
| HEIGHT DATUM: AHD71 | CO-ORD: MGA94 |
| DBYD JOB# : 19449303/22/34 | DBYD DATE: 30/04/2020 |
| ORIGINAL SIZE : A3 | SHEET: 14 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A




ADJOINS SHEET 16

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

DRAINAGE

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
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. |

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| ORIGINAL SIZE : | A3 | SHEET: | 15 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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M.G.A

ADJOINS SHEET 15

ADJOINS SHEET 17

# COPE STREET

COUNCIL DRAINAGE 900H RC (QL-C)
1.32 to 1.21m INVERT OF PIPE
RL 13.710

COUNCIL DRAINAGE (QL-A)
1.29m INVERT OF PIPE
RL 14.259

COUNCIL DRAINAGE 900H RC (QL-C)
1.32 to 1.21m INVERT OF PIPE
RL 13.710

900H — 900H — 900H —

ADJOINS SHEET 16

ADJOINS SHEET 18

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CLIENT

JOHN HOLLAND

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. |

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| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 17 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 17

ADJOINS SHEET 20

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N

MGA

COPE STREET

WELLINGTON STREET

1.05H

COUNCIL DRAINAGE (QL-D)
AS PER DBYD

COUNCIL DRAINAGE (QL-D)
AS PER DBYD

COUNCIL DRAINAGE (QL-D)
AS PER DBYD

COUNCIL DRAINAGE (QL-D)
AS PER DBYD

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

FOD

FOD

600

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 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 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

H006

CONFINED
SPACE

900

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

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

COUNCIL DRAINAGE Ø100 PVC (QL-C)

ADJOINS SHEET 19

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

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CLIENT

JOHN HOLLAND

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. |

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| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 18 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 18

N
M.G.A

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JOB NUMBER
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ADJOINS SHEET 21

ADJOINS SHEET 18

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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: | 20 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 22

ADJOINS SHEET 20

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

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ABN 53 615 735 727

CLIENT

JOHN HOLLAND

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. |

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JOB NUMBER
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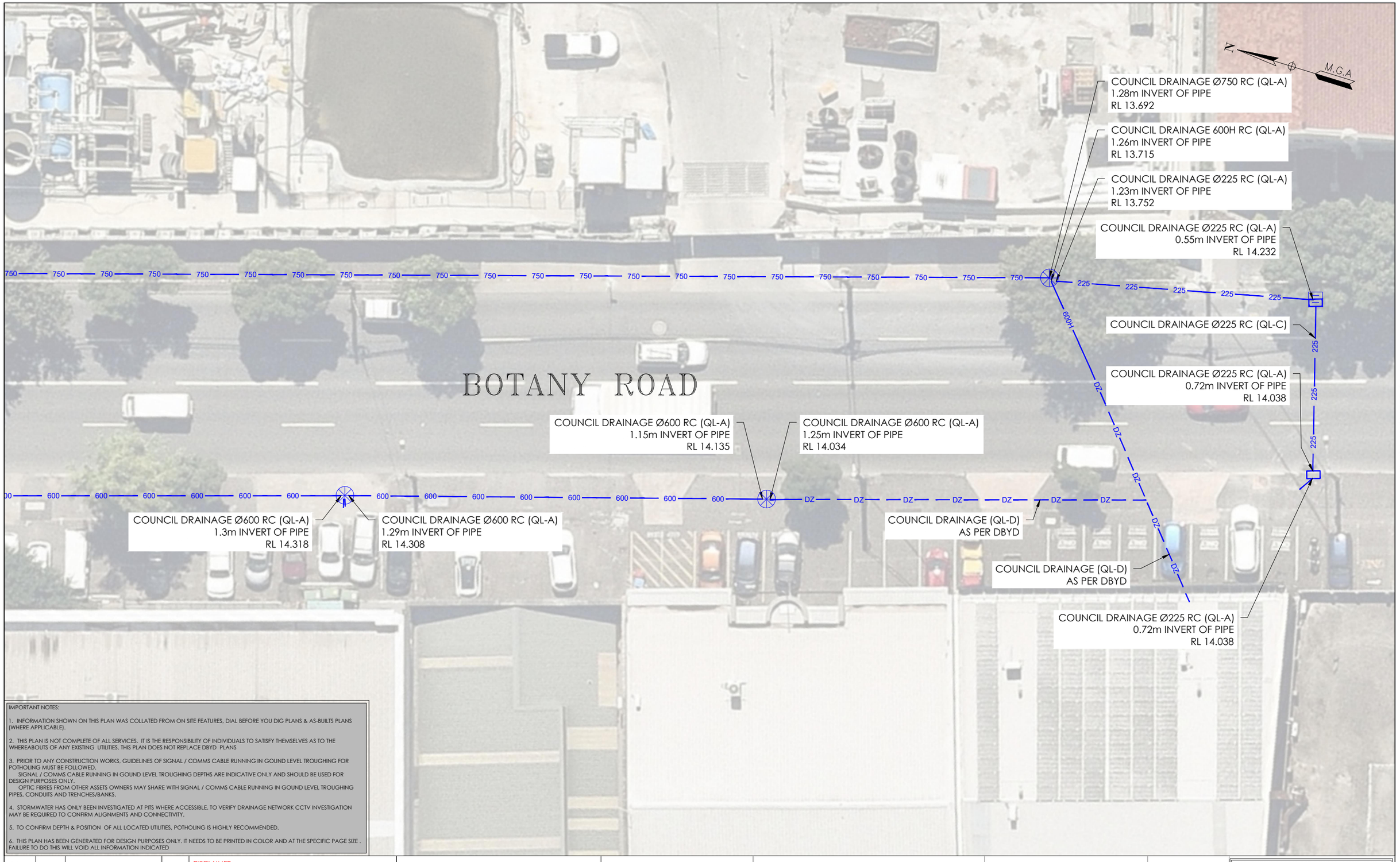


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CLIENT

JOHN HOLLAND

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. |
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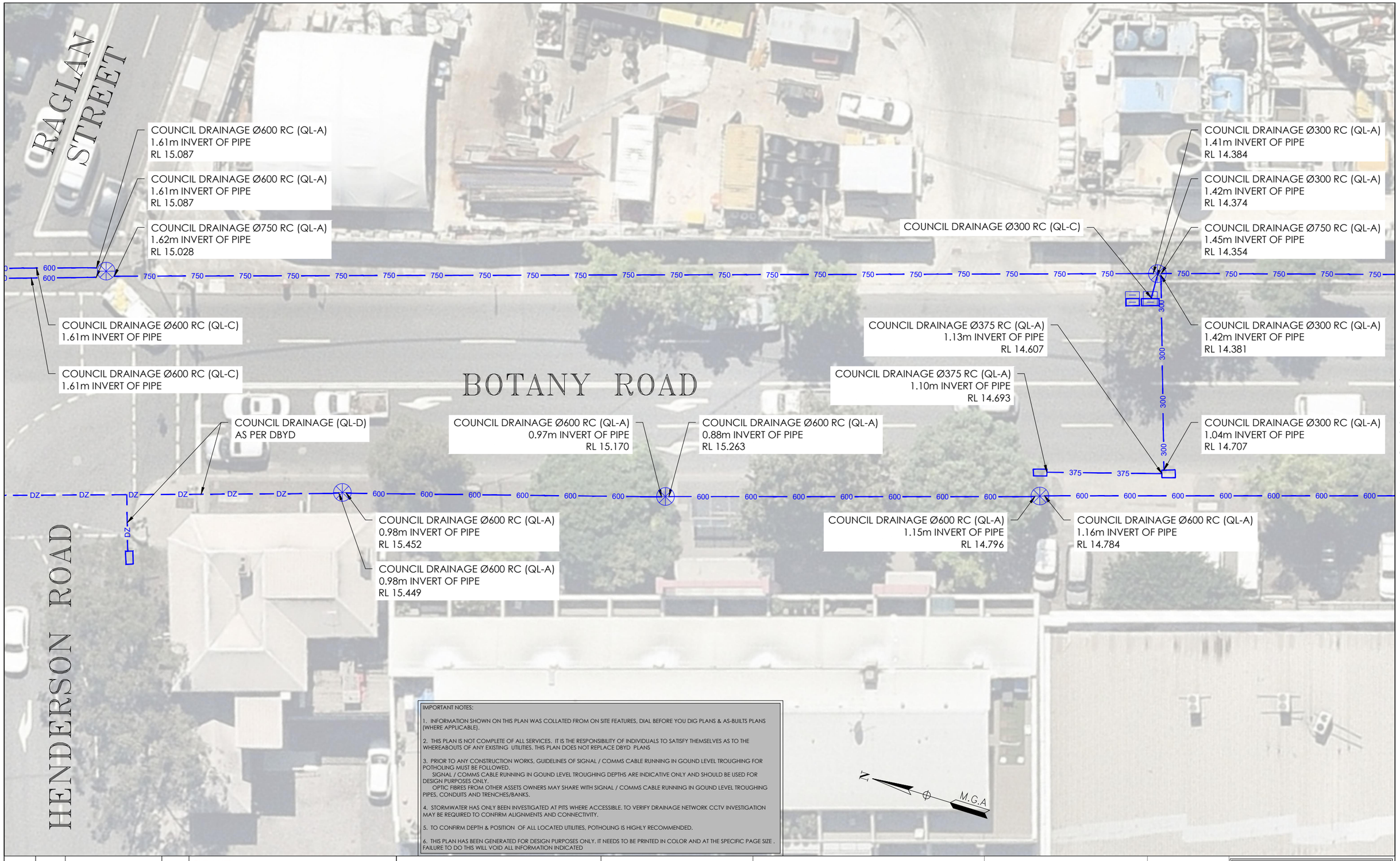


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JOHN HOLLAND

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WATERLOO STATION

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0 2 4 6 8 10
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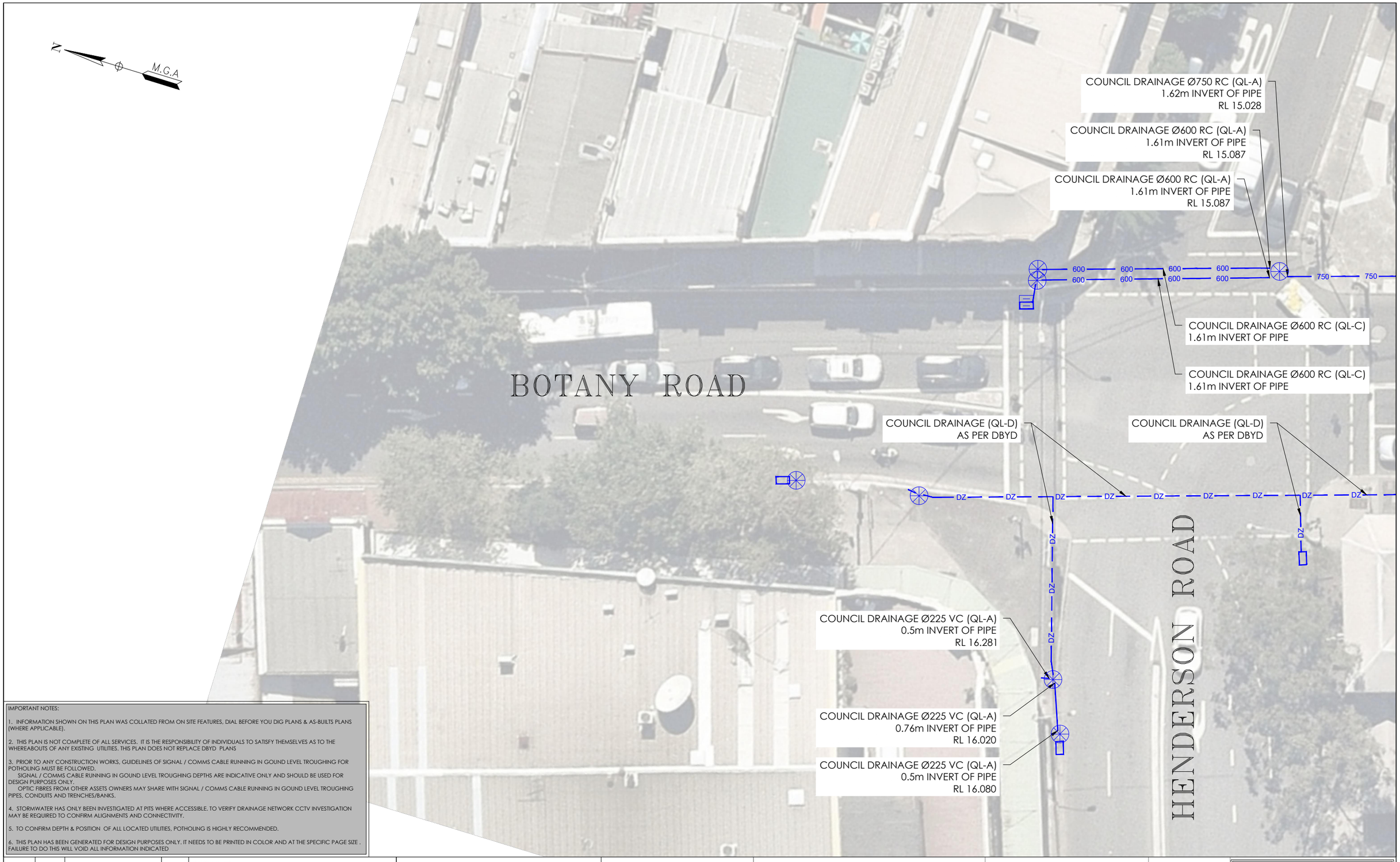


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JOHN HOLLAND

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WATERLOO STATION

DRAINAGE

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SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

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|---|---|
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N

M.G.A

ELECTRICAL 3X Ø140 PVC 4X DB (QL-B)
0.6m TOP OF PIPE

RAGLAN STREET

ELECTRICAL 2X Ø140 PVC 1X DB (QL-B)
0.6 to 0.8m TOP OF PIPE
EOT

ELECTRICAL 3X Ø140 PVC 4X DB (QL-B)
0.6m TOP OF PIPE

ELECTRICAL 2X Ø140 PVC 1X DB (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL 4X Ø140 FC 4X DB (QL-B)
0.6m TOP OF PIPE

COPE STREET

TRANSMISSION CONC (QL-B)
0.9m TOP OF COVER

TRANSMISSION CONC (QL-B)
0.9m TOP OF COVER

ELECTRICAL 3X Ø150 PVC 1X Ø50 PVC (QL-B)
0.5 to 0.7m TOP OF PIPE

ELECTRICAL 5X Ø100 EW (QL-B)
0.7 to 1.3m TOP OF PIPE

ELECTRICAL 4X Ø150 PVC 1X Ø50 PVC (QL-B)
0.5m TOP OF PIPE

ELECTRICAL 4X Ø150 PVC 1X Ø50 PVC (QL-B)
0.4 to 1.2m TOP OF PIPE

ELECTRICAL 5X Ø100 EW (QL-B)
0.7 to 1.3m TOP OF PIPE

ELECTRICAL 4X Ø140 EW (QL-B)
0.6 to 0.9m TOP OF PIPE

EMH

EMH

ELECTRICAL (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL 4X Ø140 EW (QL-B)
0.6 to 0.9m TOP OF PIPE

ELECTRICAL 4X Ø100 EW (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL 3X Ø150 PVC 1X Ø50 PVC (QL-B)
0.5 to 0.7m TOP OF PIPE

ELECTRICAL 4X Ø140 FC 4X DB (QL-B)
0.6m TOP OF PIPE

ELECTRICAL 4X Ø100 EW (QL-B)
0.9 to 1.8m TOP OF PIPE

ELECTRICAL 1X Ø130 PVC 4X DB (QL-B)
0.5 to 0.9m TOP OF PIPE

ELECTRICAL 2X Ø130 PVC 10X DB (QL-B)
0.4 to 1.2m TOP OF PIPE

ELECTRICAL 1X Ø130 PVC 4X DB (QL-B)
0.5 to 0.9m TOP OF PIPE

ADJOINS SHEET 26

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

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

ELECTRICAL

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
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N
M.G.A

ADJOINS SHEET 25

ADJOINS SHEET 27

ELECTRICAL 2X Ø140 FC (QL-B)
0.5 to 0.8m TOP OF PIPE

TRANSMISSION CONC (QL-B)
0.9m TOP OF COVER

ELECTRICAL 2X Ø140 FC (QL-B)
0.5 to 0.8m TOP OF PIPE

TRANSMISSION CONC (QL-B)
0.9m TOP OF COVER

ELECTRICAL 5X Ø100 EW (QL-B)
0.7 to 1.3m TOP OF PIPE

ELECTRICAL 5X Ø100 EW (QL-B)
0.7 to 1.3m TOP OF PIPE

EMH

EMH

EMH

COPE STREET

ELECTRICAL 4X Ø100 EW (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL 4X Ø100 EW (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL 4X Ø100 EW (QL-B)
0.5 to 0.7m TOP OF PIPE

ELECTRICAL 4X Ø100 EW (QL-B)
0.5 to 0.7m TOP OF PIPE

| ISSUE | DATE | AMMENDMENT | BY |
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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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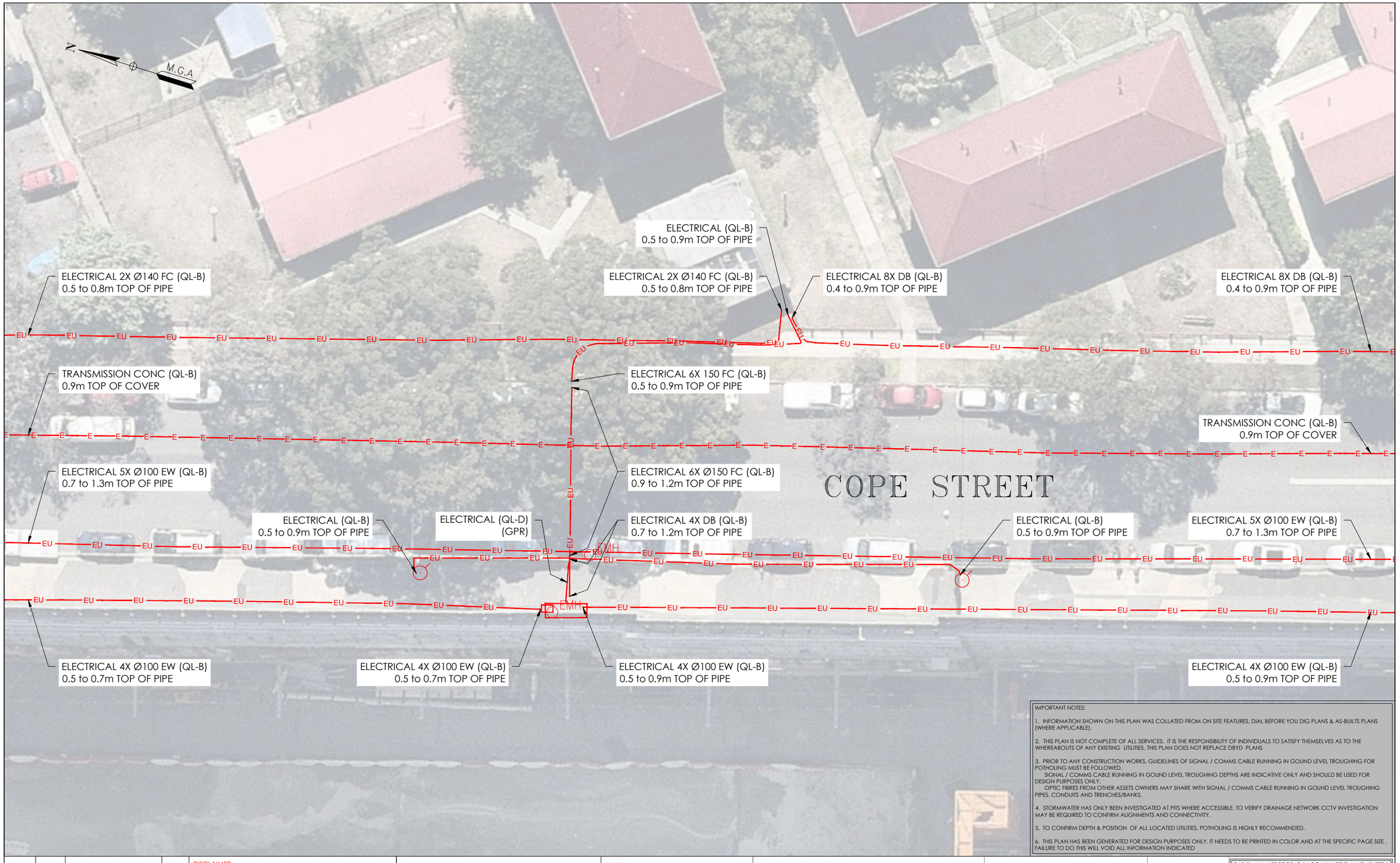
| | | | |
|---|---|---|---|
| DATE OF SURVEY: | 24/06/2020 | DATE OF PLAN: | 03/06/2020 |
| HEIGHT DATUM: | AHD71 | CO-ORD: | MGA94 |
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 26 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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

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ABN 53 615 735 727


CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

ELECTRICAL

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
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| LOCATED BY: | L.B. |
| SURVEYED BY: | Y.M./A.D. |
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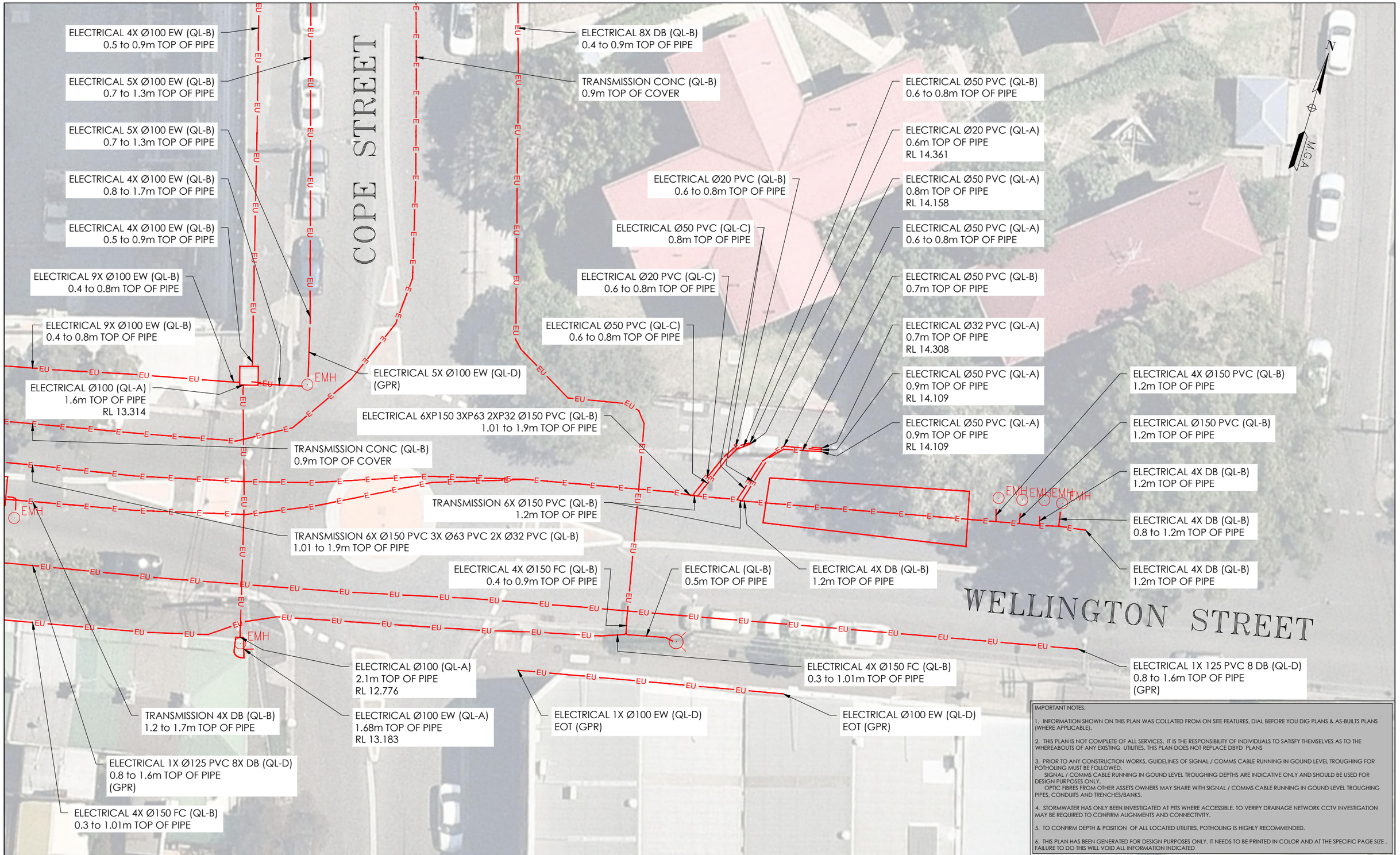
| ORIGINAL SIZE : | A3 | SHEET: | 27 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 27

ADJOINS SHEET 29

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

ELECTRICAL

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
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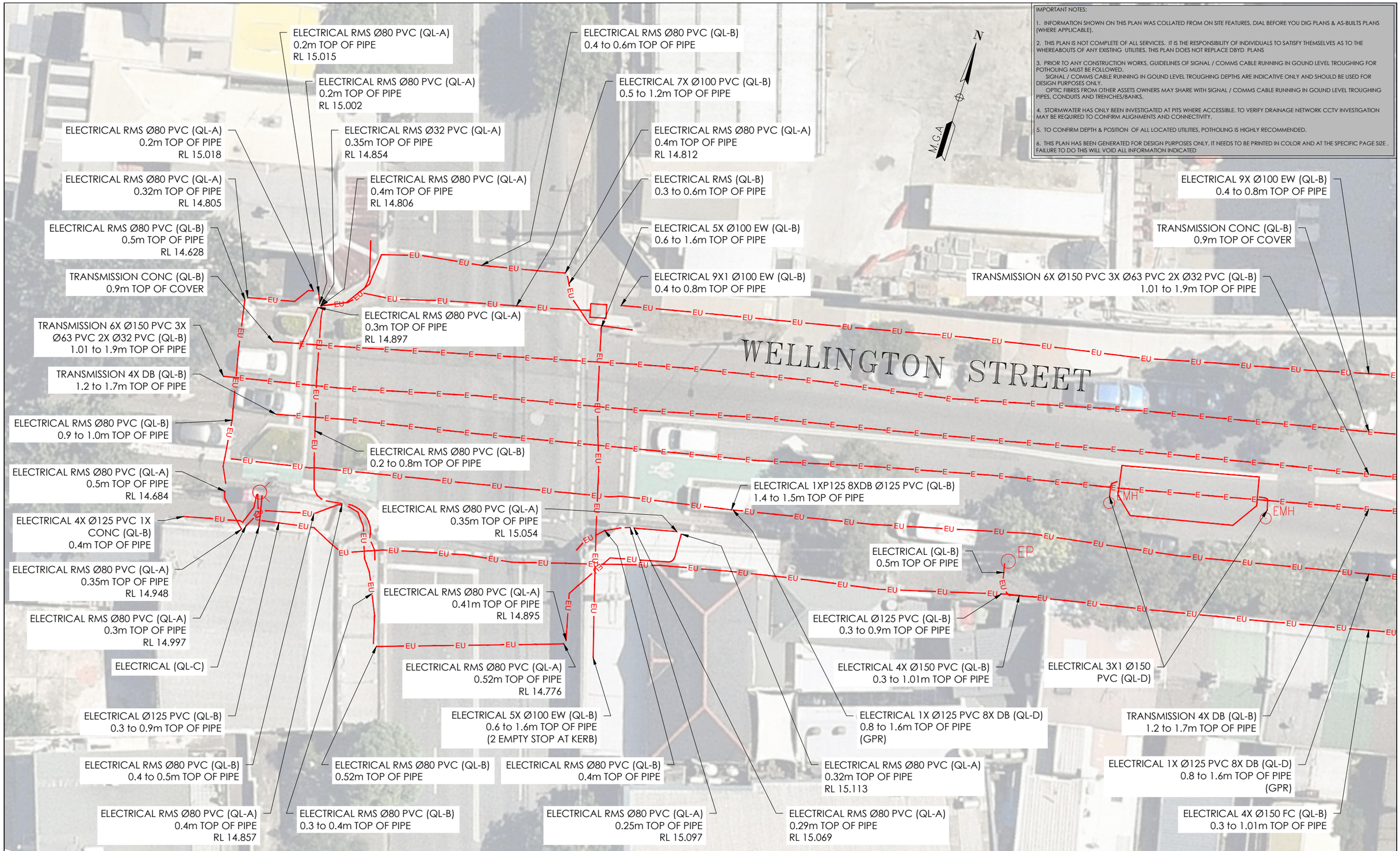
| ORIGINAL SIZE : A3 | SHEET: 28 OF 75 |

JOB NUMBER 202254

DRAWING NUMBER / ISSUE 202254-UTILS-001A

ADJOINS SHEET 30

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ADJOINS SHEET 28

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

ELECTRICAL

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
|---|---|
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| ORIGINAL SIZE : | A3 | SHEET: | 29 OF 75 |

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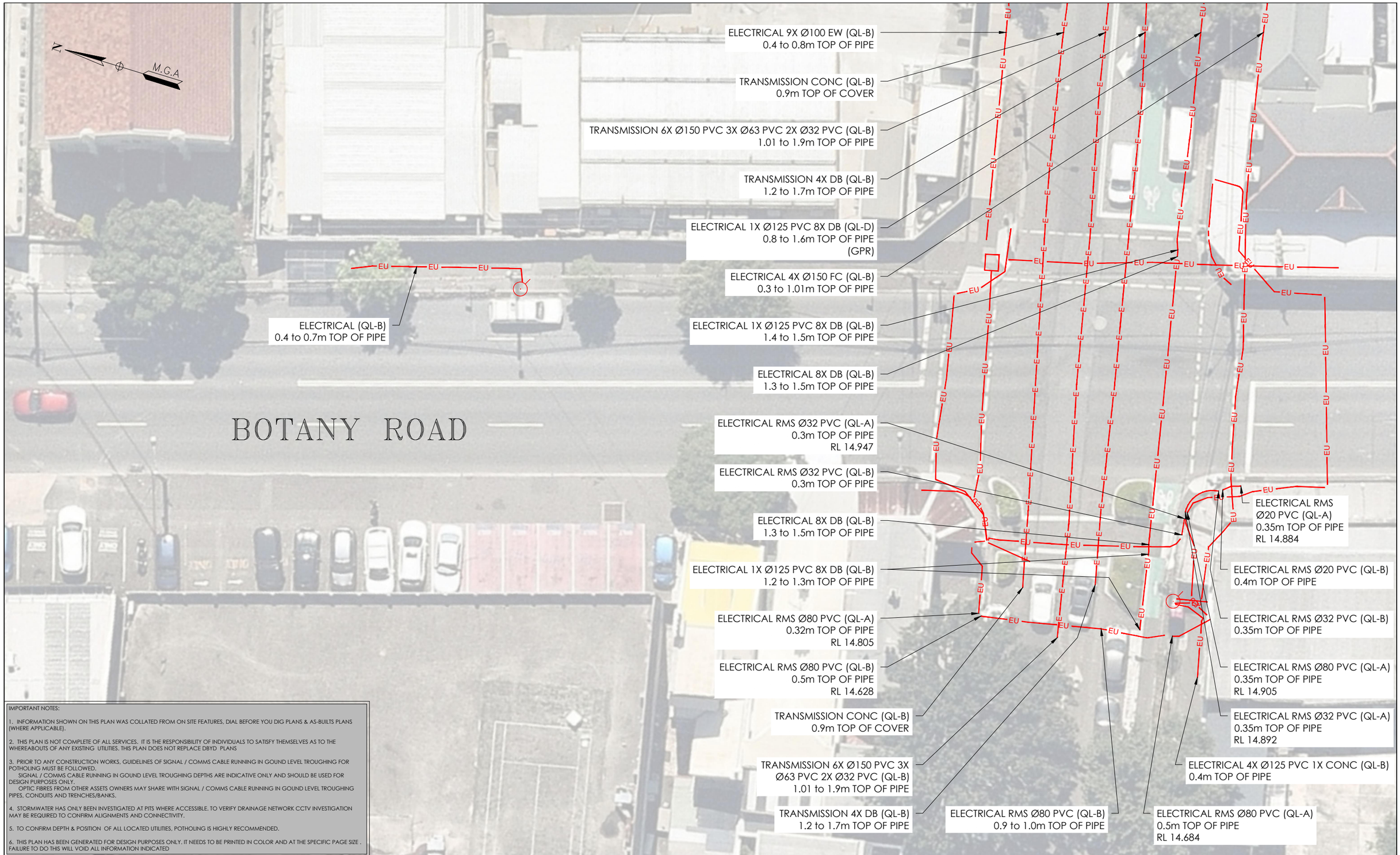
DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 29

ADJOINS SHEET 31

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CLIENT: JOHN HOLLAND

PROJECT TITLE: WATERLOO STATION

ELECTRICAL

DRAWING TITLE: SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
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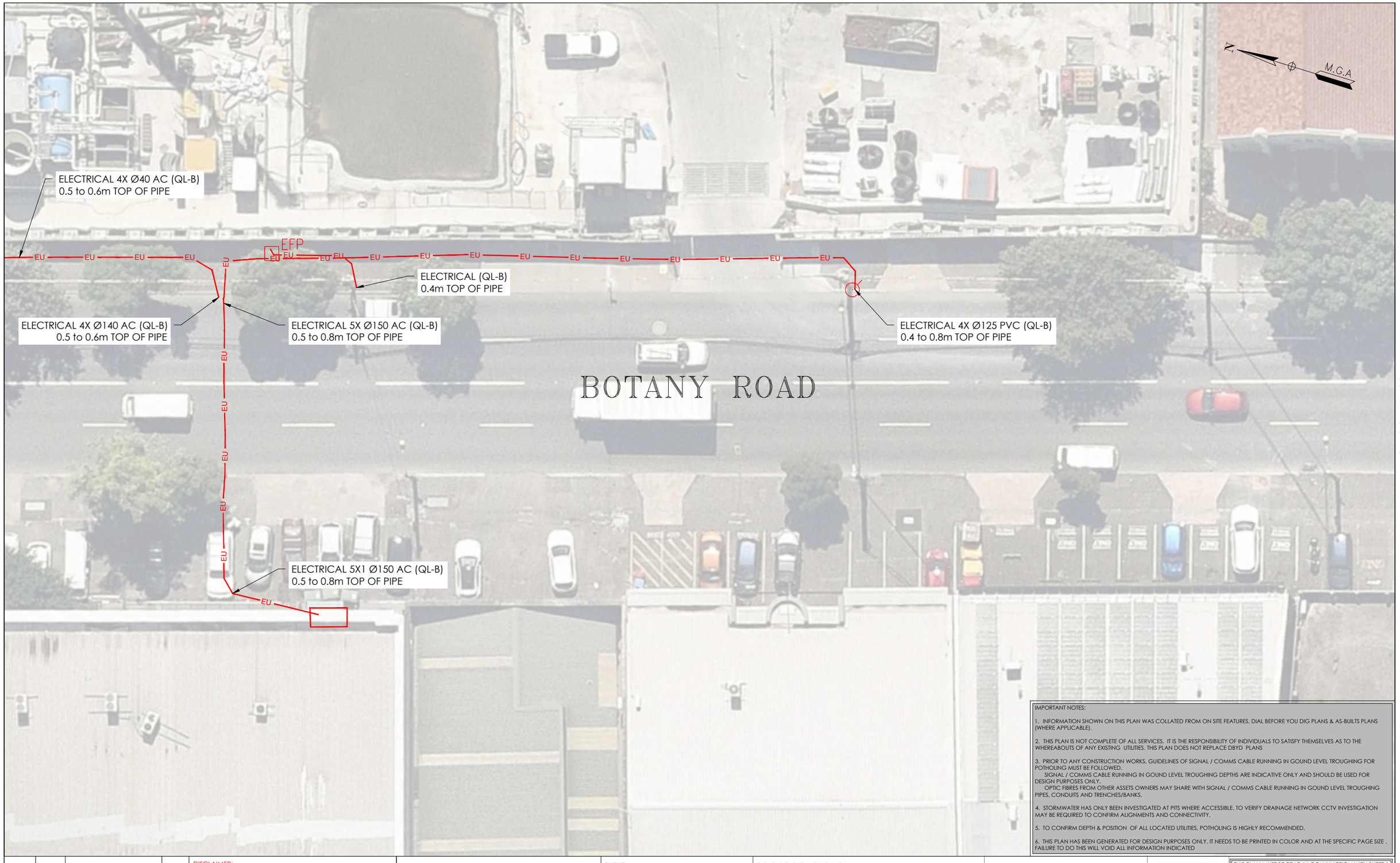


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JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 34

ADJOINS SHEET 33

ADJOINS SHEET 31

ELECTRICAL 4X DB 2X Ø130 PVC (QL-B)
0.5 to 0.9m TOP OF PIPE

ELECTRICAL DB (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL RMS 2X
Ø80 PVC (QL-A)
0.44m TOP OF PIPE
RL 16.279

ELECTRICAL
RMS 2X Ø80
PVC (QL-B)
0.5 to 0.6m
TOP OF PIPE

ELECTRICAL RMS 2X Ø80 PVC (QL-A)
0.44m TOP OF PIPE
RL 16.280

ELECTRICAL RMS Ø80 PVC (QL-A)
0.23m TOP OF PIPE
RL 16.485

ELECTRICAL DB (QL-B)
0.6 to 1.01m TOP OF PIPE

EP

ELECTRICAL 2X 130 PVC 4X DB (QL-B)
0.5 to 0.9m TOP OF PIPE

ELECTRICAL 2X Ø130 AC 4X DB (QL-B)
0.5 to 0.6m TOP OF PIPE

ELECTRICAL
2X DB
Ø125 PVC
(QL-B)
0.8 to 1.0m
TOP OF PIPE

ELECTRICAL
3X Ø125 PVC
(QL-D)
EOT

ELECTRICAL RMS Ø80 PVC (QL-A)
0.52m TOP OF PIPE
RL 16.198

ELECTRICAL RMS Ø80 PVC (QL-A)
0.23m TOP OF PIPE
RL 16.485

ELECTRICAL RMS Ø80 PVC (QL-A)
0.38m TOP OF PIPE
RL 16.164

ELECTRICAL RMS Ø80 PVC (QL-A)
0.6m TOP OF PIPE
RL 15.952

ELECTRICAL RMS Ø80 PVC (QL-A)
0.36m TOP OF PIPE
RL 16.180

ELECTRICAL RMS Ø80 PVC (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL DB (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL 4X 140AC
(QL-B)
0.5 to 0.6m TOP OF PIPE

BOTANY ROAD

ELECTRICAL
(QL-D)
EOT

ELECTRICAL
2X Ø100 FC
(QL-B)
0.68 to 1.5m
TOP OF PIPE

ELECTRICAL RMS Ø80 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.284

ELECTRICAL RMS Ø80 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.285

ELECTRICAL RMS Ø80 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.191

ELECTRICAL RMS Ø80 PVC (QL-A)
0.25m TOP OF PIPE
RL 16.341

EMH

ELECTRICAL Ø50 PVC (QL-B)
0.5m TOP OF PIPE

ELECTRICAL
2X DB (QL-D)
0.9 to 1.1m
TOP OF PIPE
(GPR)

ELECTRICAL
Ø80 PVC (QL-B)
0.68 to 1.5m
TOP OF PIPE

ELECTRICAL 2X DB (QL-B)
0.5m TOP OF PIPE
EOT

ELECTRICAL 2X DB (QL-B)
0.5m TOP OF PIPE
EOT

ELECTRICAL
Ø80 PVC (QL-A)
0.55m TOP OF PIPE
RL 16.200

ELECTRICAL 2X Ø100 FC (QL-B)
0.6 to 1.01m TOP OF PIPE

ELECTRICAL
Ø80 PVC (QL-A)
0.35m TOP OF PIPE
RL 16.408

ELECTRICAL 4X Ø125 PVC (QL-B)
0.6 to 1.01m TOP OF PIPE

M.G.A

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

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ABN 53 615 735 727

CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

ELECTRICAL

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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| 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: | 32 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

N
M.G.A

RAGLAN STREET

BOTANY ROAD

ELECTRICAL RMS 2X Ø80 PVC (QL-A)
0.45m TOP OF PIPE
RL 16.507

ELECTRICAL Ø125 PVC (QL-A)
1.0m TOP OF PIPE
RL 16.014

ELECTRICAL RMS Ø80 PVC (QL-A)
0.38m TOP OF PIPE
RL 16.579

ELECTRICAL DB (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL RMS Ø80 PVC (QL-A)
0.38m TOP OF PIPE
RL 16.579

ELECTRICAL RMS
2X Ø80 PVC (QL-A)
0.44m TOP OF PIPE
RL 16.279

ELECTRICAL RMS Ø80 PVC (QL-B)
0.4m TOP OF PIPE

ELECTRICAL
RMS 2X Ø80
PVC (QL-B)
0.5 to 0.6m
TOP OF PIPE

ELECTRICAL (QL-B)
0.2 to 0.9m TOP OF PIPE

ELECTRICAL RMS Ø80 PVC (QL-B)
0.2 to 0.4m TOP OF PIPE

ELECTRICAL Ø125 PVC (QL-B)
0.4 to 0.6m TOP OF PIPE

ELECTRICAL RMS Ø80 PVC (QL-B)
0.5m TOP OF PIPE

ELECTRICAL RMS Ø80 PVC (QL-A)
0.25m TOP OF PIPE
RL 16.816

ELECTRICAL PVC (QL-C)
0.7m TOP OF PIPE

ELECTRICAL
2X1DB
Ø125 PVC
(QL-B)
0.8 to 1.0m
TOP OF PIPE

ELECTRICAL RMS Ø80 PVC (QL-A)
0.33m TOP OF PIPE
RL 16.738

ELECTRICAL 2X
Ø100 FC (QL-B)
0.68 to 1.5m TOP
OF PIPE

ELECTRICAL
(QL-D)
EOT

ELECTRICAL Ø32 PVC (QL-A)
0.45m TOP OF PIPE
RL 17.084

ELECTRICAL 2X Ø100 PVC (QL-A)
0.75m TOP OF PIPE
RL 16.524

ELECTRICAL RMS Ø80 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.504

ELECTRICAL
RMS Ø80 PVC
(QL-A) 0.4m
TOP OF PIPE
RL 16.326

ELECTRICAL Ø32 PVC (QL-A)
0.5m TOP OF PIPE
RL 17.054

ELECTRICAL RMS Ø80 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.705

ELECTRICAL
2X1DB (QL-D)
0.9 to 1.1m
TOP OF PIPE
(GPR)

ELECTRICAL RMS
Ø80 PVC (QL-A)
0.2m TOP OF PIPE
RL 16.526

ELECTRICAL Ø32 PVC (QL-B)
0.45 to 0.55m TOP OF PIPE

ELECTRICAL DB (QL-B)
0.3 to 1.01m TOP OF PIPE

ELECTRICAL 2X Ø125 (QL-A)
0.9m TOP OF PIPE
RL 16.308

ELECTRICAL RMS
Ø80 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.583

ELECTRICAL RMS
Ø80 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.332

ELECTRICAL 2X Ø100 PVC (QL-B)
0.7 to 0.89m TOP OF PIPE

ELECTRICAL 2X DB (QL-D)
0.9 to 1.1m TOP OF PIPE
(GPR)

ELECTRICAL RMS
Ø20 GAL (QL-B)
0.6m TOP OF PIPE

ELECTRICAL RMS Ø80 PVC (QL-A)
0.75m TOP OF PIPE
RL 16.213

ELECTRICAL RMS
Ø80 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.257

ELECTRICAL RMS
Ø80 PVC (QL-A)
0.57m TOP OF PIPE
RL 16.174

ELECTRICAL RMS Ø80 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.477

ELECTRICAL RMS Ø80 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.265

ELECTRICAL
RMS Ø80 PVC
(QL-A)
0.68m TOP OF
PIPE
RL 16.067

ELECTRICAL RMS Ø80 PVC (QL-A)
0.55m TOP OF PIPE
RL 16.200

ELECTRICAL DB (QL-B)
0.3 to 1.01m TOP OF PIPE

ELECTRICAL RMS Ø80 PVC (QL-A)
0.57m TOP OF PIPE
RL 16.175

EP
EJB
EMH
EU

ADJOINS SHEET 32

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0 2 4 6 8 10
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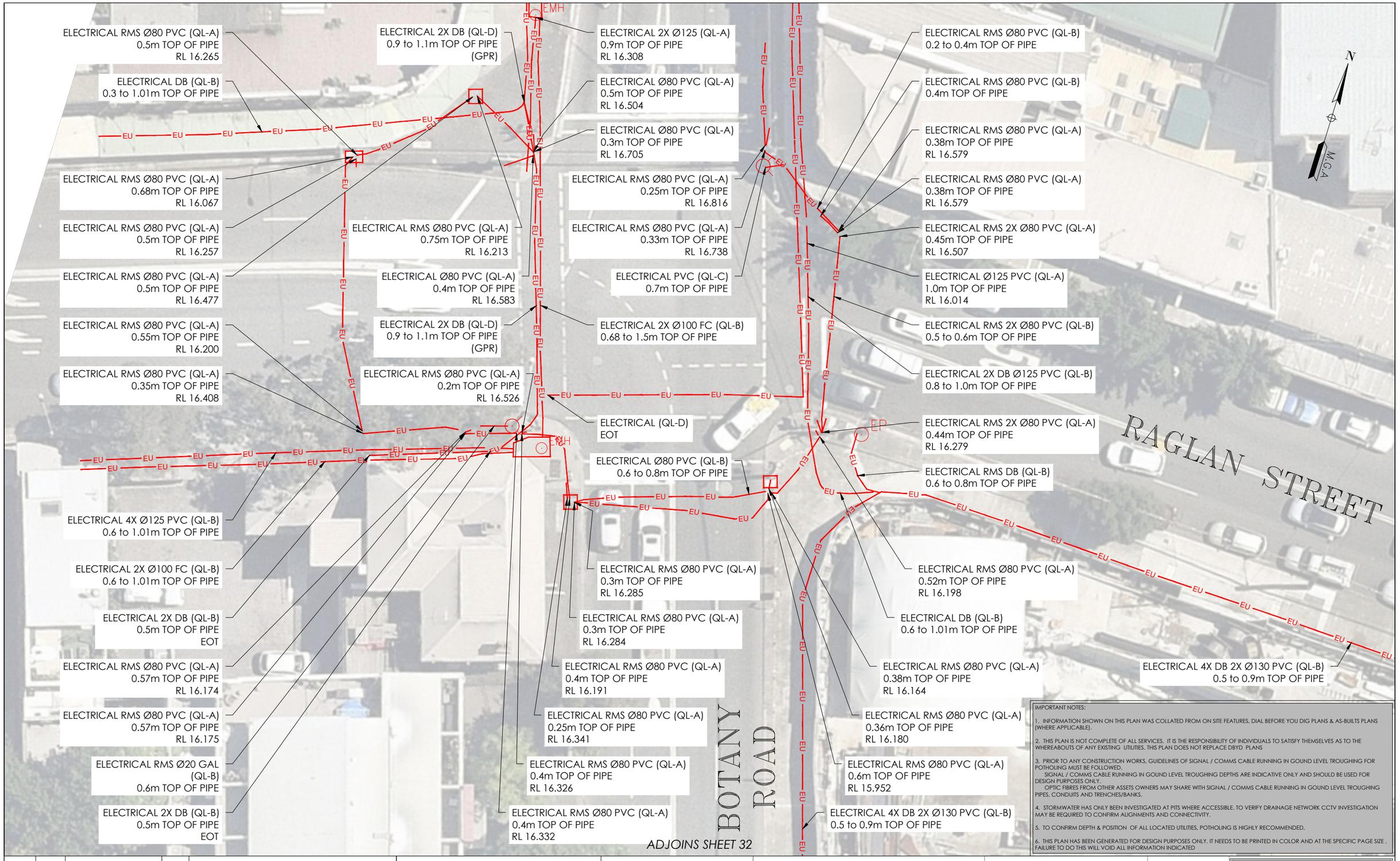
| ORIGINAL SIZE : | A3 | SHEET: | 33 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 33




ADJOINS SHEET 32

ADJOINS SHEET 35

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PROJECT TITLE

WATERLOO STATION

ELECTRICAL

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

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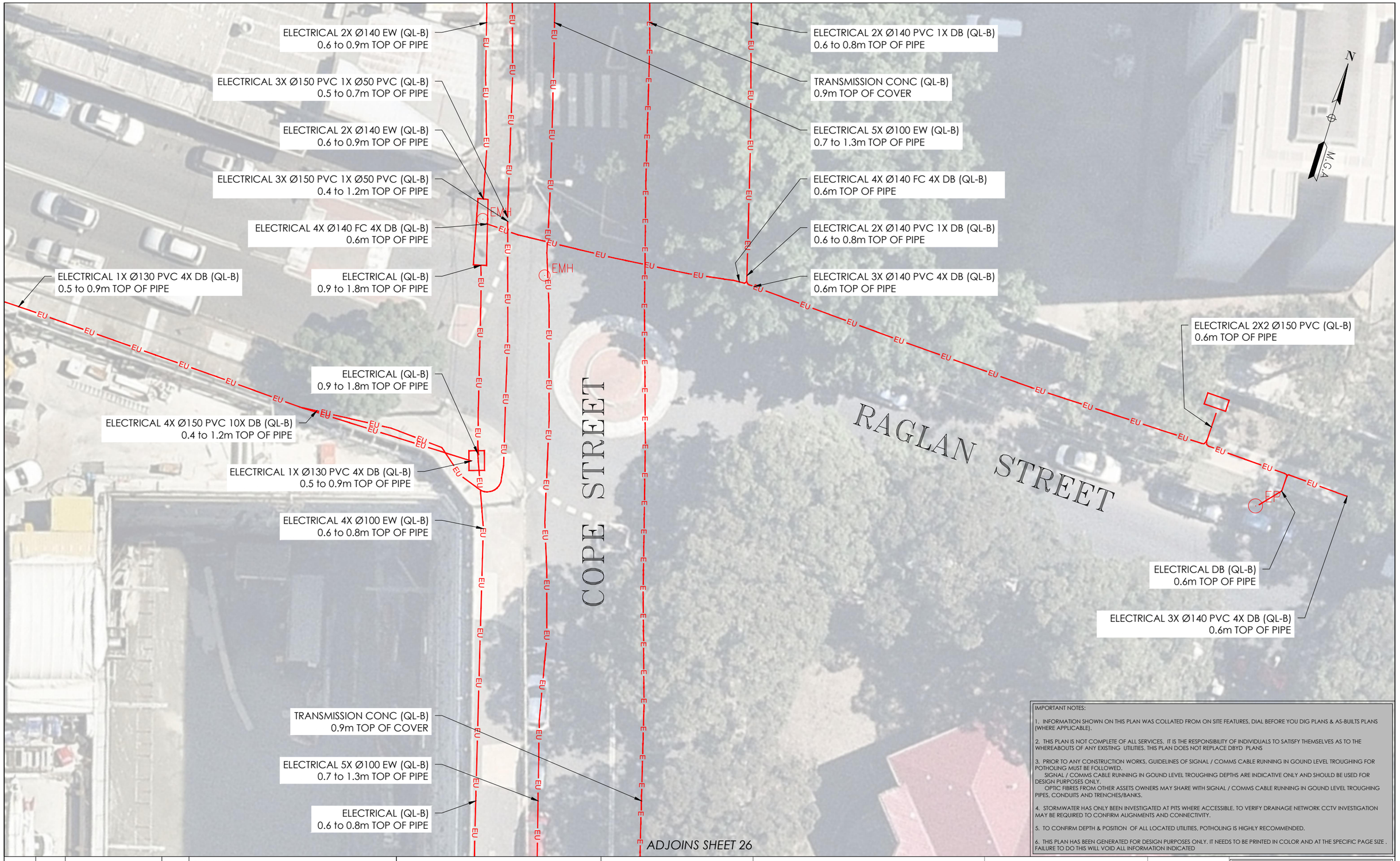
JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 25

ADJOINS SHEET 34

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WATERLOO STATION

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SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
|---|---|
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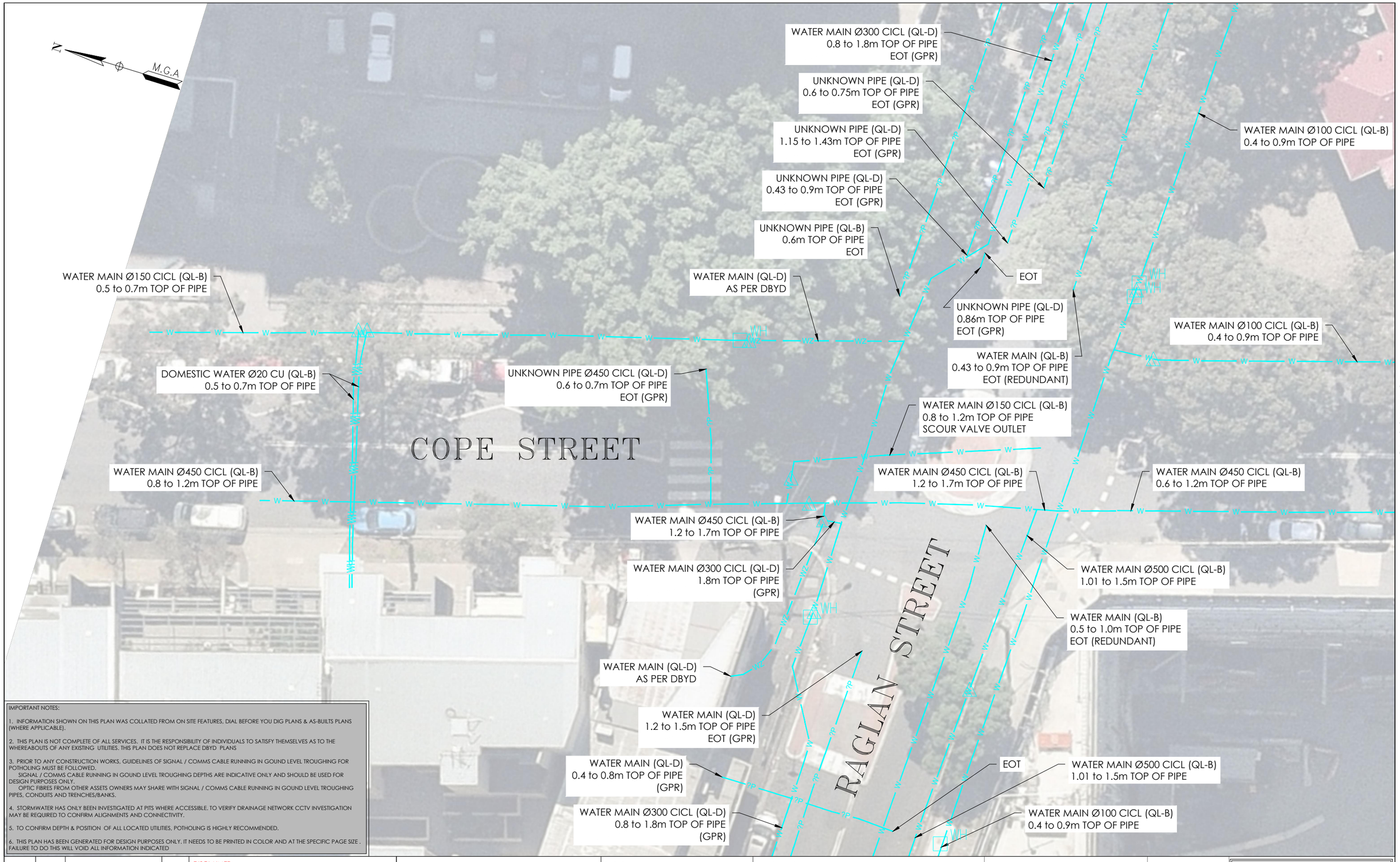


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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

WATER

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
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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: | 37 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

IMPORTANT NOTES:

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

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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

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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| ORIGINAL SIZE : | A3 | SHEET: | 38 OF 75 |

JOB NUMBER

202254

DRAWING NUMBER / ISSUE

202254-UTILS-001A

ADJOINS SHEET 38

ADJOINS SHEET 41

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COPE STREET

WELLINGTON STREET

WATER MAIN Ø450 CICL (QL-B)
0.6 to 1.2m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.7m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
0.6 to 1.01m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.7m TOP OF PIPE

WATER MAIN (QL-B)
1.3 to 1.5m TOP OF PIPE

WATER MAIN (QL-B)
1.3 to 1.5m TOP OF PIPE

WATER MAIN (QL-D)
REDUNDANT (GPR)

WATER MAIN Ø100 CICL (QL-B)
0.9m TOP OF PIPE

WATER MAIN Ø450 CICL (QL-B)
0.6 to 1.2m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
0.6 to 1.01m TOP OF PIPE

ADJOINS SHEET 40

| ISSUE | DATE | AMMENDMENT | BY |
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W: www.veris.com.au
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
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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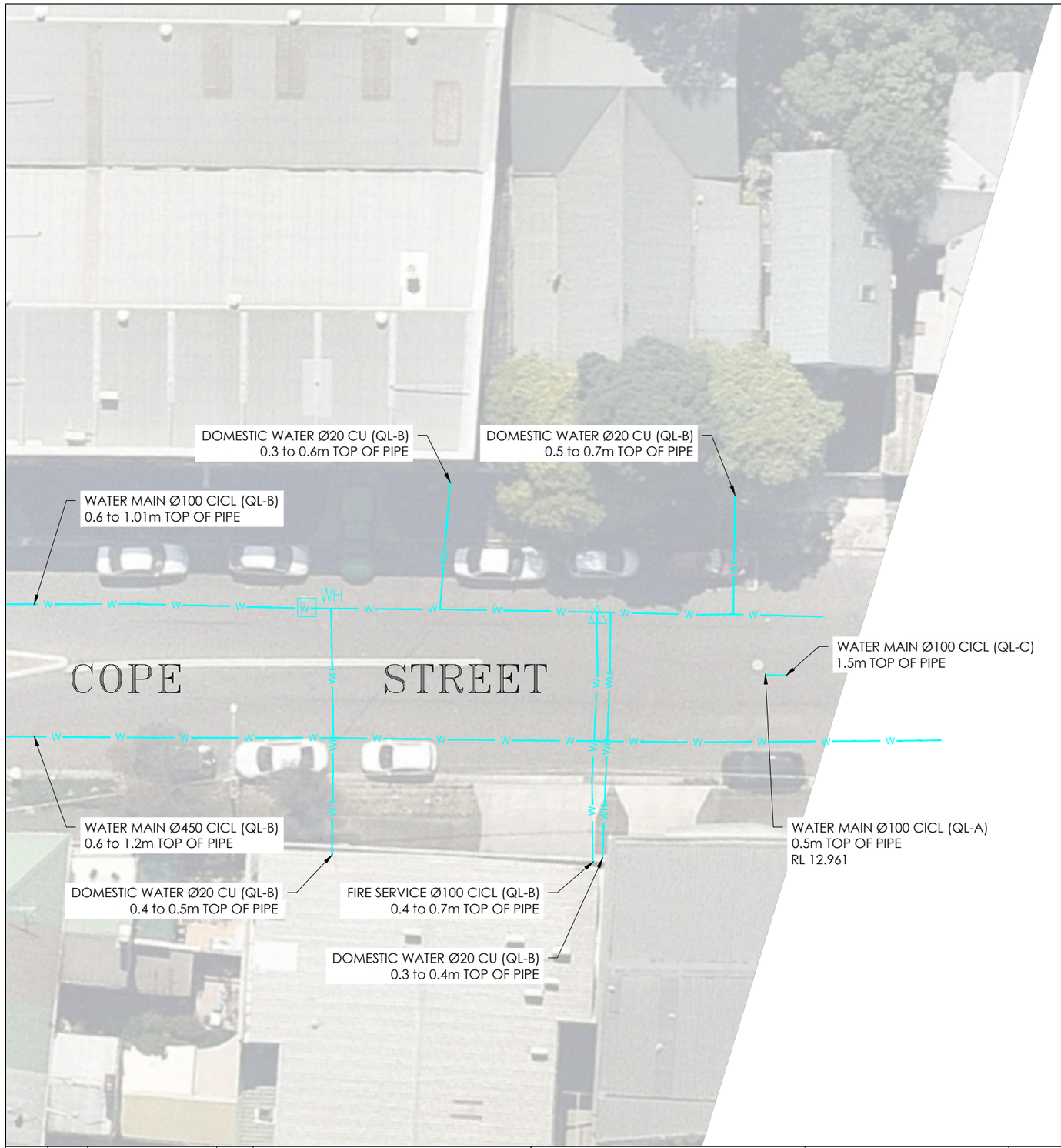
| ORIGINAL SIZE : | A3 | SHEET: | 39 OF 75 |

JOB NUMBER: 202254

DRAWING NUMBER / ISSUE: 202254-UTILS-001A




N
M.G.A

ADJOINS SHEET 39

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

WATER

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
|---|---|
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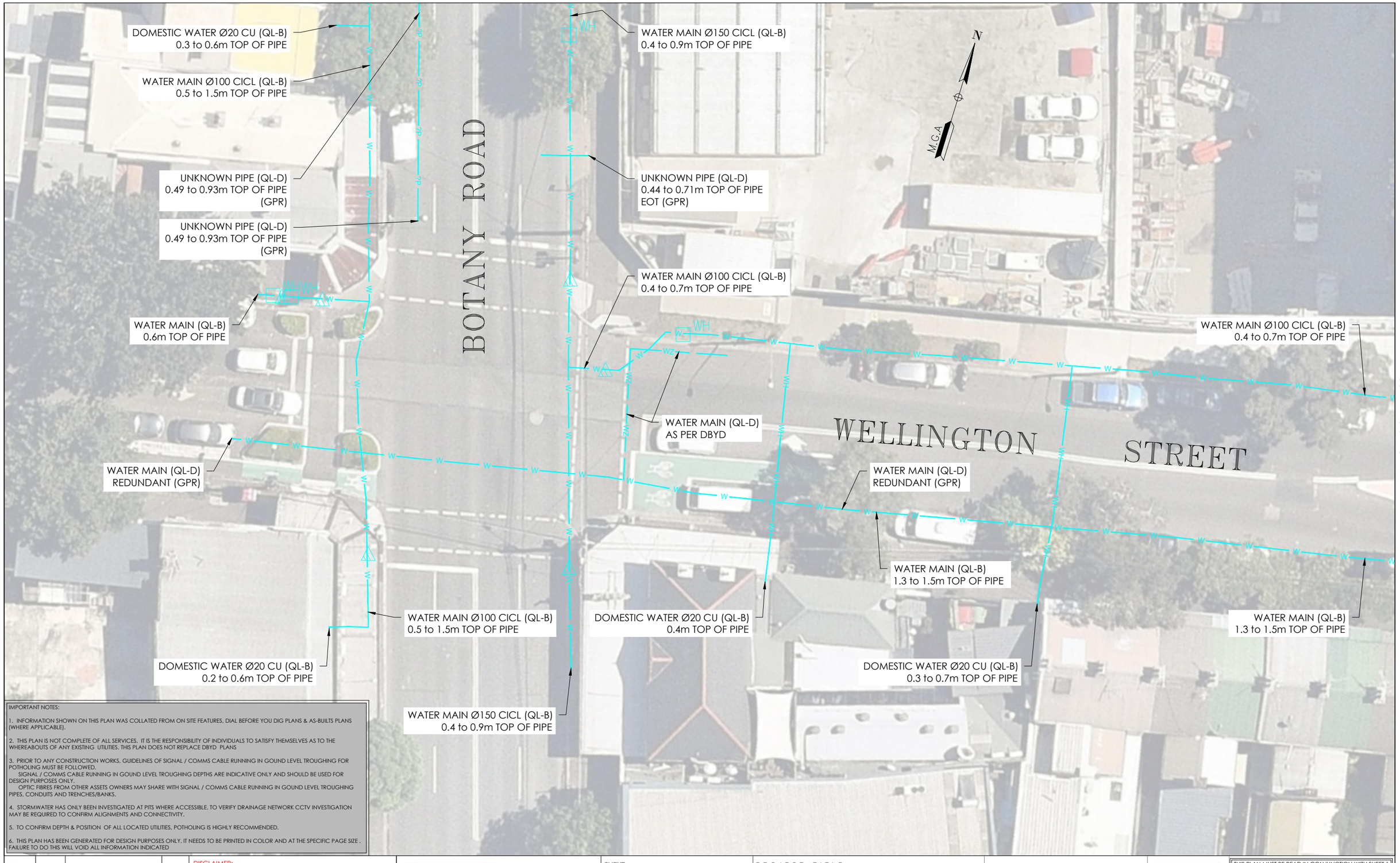
| ORIGINAL SIZE : | A3 | SHEET: | 40 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 42

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

WATER

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. |
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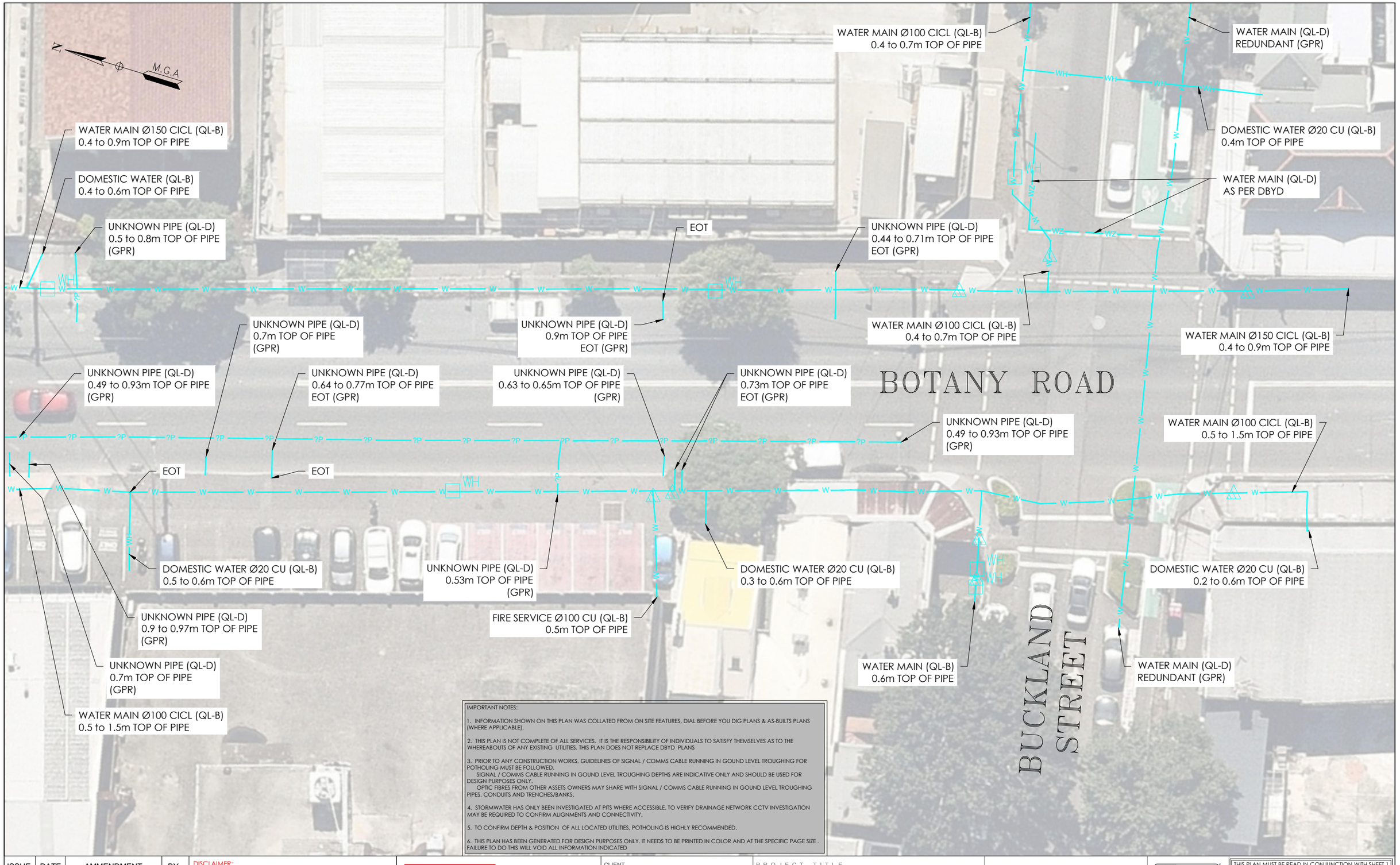
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 41 OF 75 |

DRAWING NUMBER / ISSUE 202254-UTILS-001A

ADJOINS SHEET 41

ADJOINS SHEET 43

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CLIENT

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WATER

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0 2 4 6 8 10
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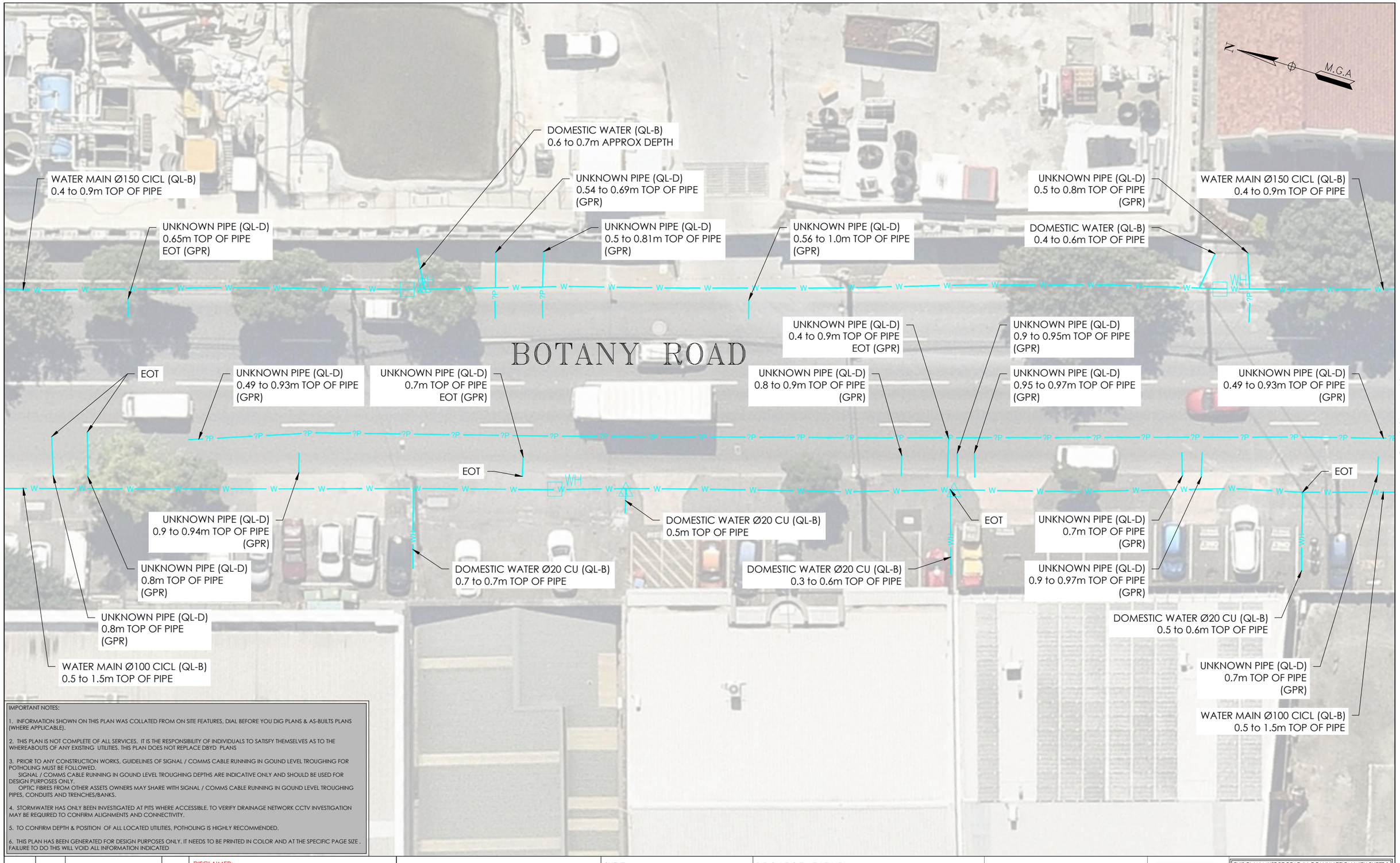
202254-UTILS-001A

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CLIENT: JOHN HOLLAND

PROJECT TITLE: WATERLOO STATION

WATER

DRAWING TITLE: SUB-SURFACE UTILITY PLAN

SCALE IN METERS 1: 250 (0 2 4 6 8 10)

| | |
|---|---|
| LOCATED BY: | L.B. |
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JOB NUMBER: 202254

DRAWING NUMBER / ISSUE: 202254-UTILS-001A

ADJOINS SHEET 46

ADJOINS SHEET 45

ADJOINS SHEET 43

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WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

WATER MAIN Ø500 CICL (QL-C)
1.01 to 1.8m TOP OF PIPE

UNKNOWN PIPE (QL-D)
0.4 to 0.8m TOP OF PIPE
EOT (GPR)

WATER MAIN (QL-B)
0.5 to 1.0m TOP OF PIPE
REDUNDANT EOT

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

WATER MAIN (QL-B)
0.6 to 0.7m TOP OF PIPE

UNKNOWN PIPE (QL-D)
0.7m TOP OF PIPE
EOT (GPR)

UNKNOWN PIPE (QL-D)
0.6m TOP OF PIPE
EOT (GPR)

WATER MAIN Ø150 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

UNKNOWN PIPE (QL-D)
0.65m TOP OF PIPE
EOT (GPR)

BOTANY ROAD

WATER MAIN Ø150 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
0.5 to 1.5m TOP OF PIPE

UNKNOWN PIPE (QL-D)
0.6m TOP OF PIPE
EOT (GPR)

UNKNOWN PIPE (QL-D)
0.49 to 0.93m TOP OF PIPE
(GPR)

EOT

UNKNOWN PIPE (QL-D)
0.78m TOP OF PIPE
(GPR)

UNKNOWN PIPE (QL-D)
0.8m TOP OF PIPE
(GPR)

UNKNOWN PIPE (QL-D)
0.8m TOP OF PIPE
(GPR)

WATER MAIN Ø100 CICL (QL-B)
0.5 to 1.5m TOP OF PIPE

HENDERSON ROAD

WATER MAIN Ø500 CICL (QL-C)
1.01 to 1.8m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
1.01 to 1.2m TOP OF PIPE

DOMESTIC WATER Ø20 CU (QL-B)
0.5 to 0.8m TOP OF PIPE

DOMESTIC WATER Ø20 CU (QL-B)
0.5m TOP OF PIPE

UNKNOWN PIPE (QL-B)
0.7 to 1.01m TOP OF PIPE
EOT

WATER MAIN Ø100 CICL (QL-B)
1.01 to 1.2m TOP OF PIPE

WATER MAIN Ø500 CICL (QL-B)
0.8 to 1.01m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-C)
0.8m TOP OF PIPE

WATER MAIN Ø500 CICL (QL-B)
0.8 to 1.01m TOP OF PIPE

M.G.A

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

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W: www.veris.com.au
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
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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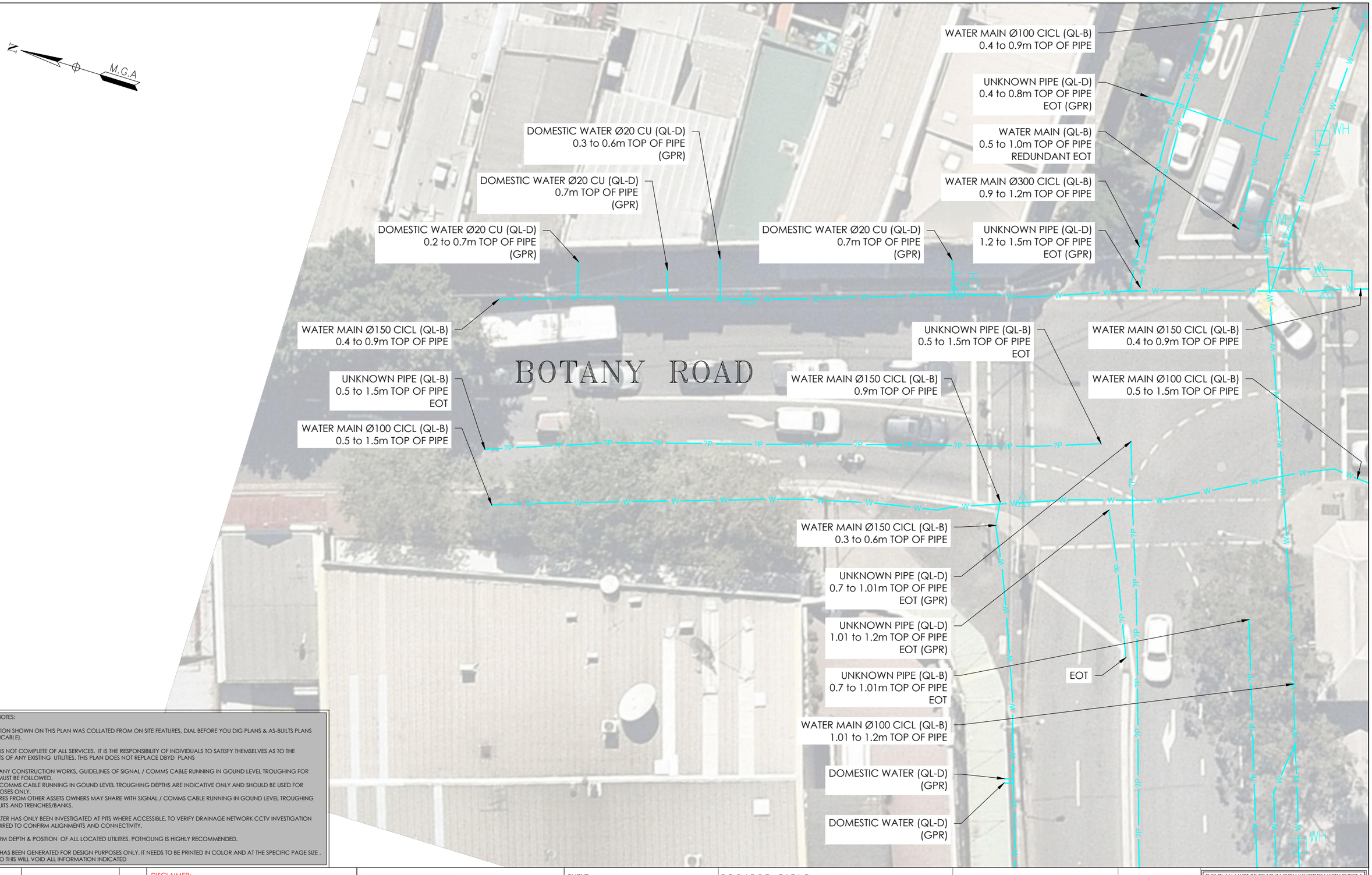
| | | | |
|---|---|---|---|
| DATE OF SURVEY: | 24/06/2020 | DATE OF PLAN: | 03/06/2020 |
| HEIGHT DATUM: | AHD71 | CO-ORD: | MGA94 |
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 44 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

WATER

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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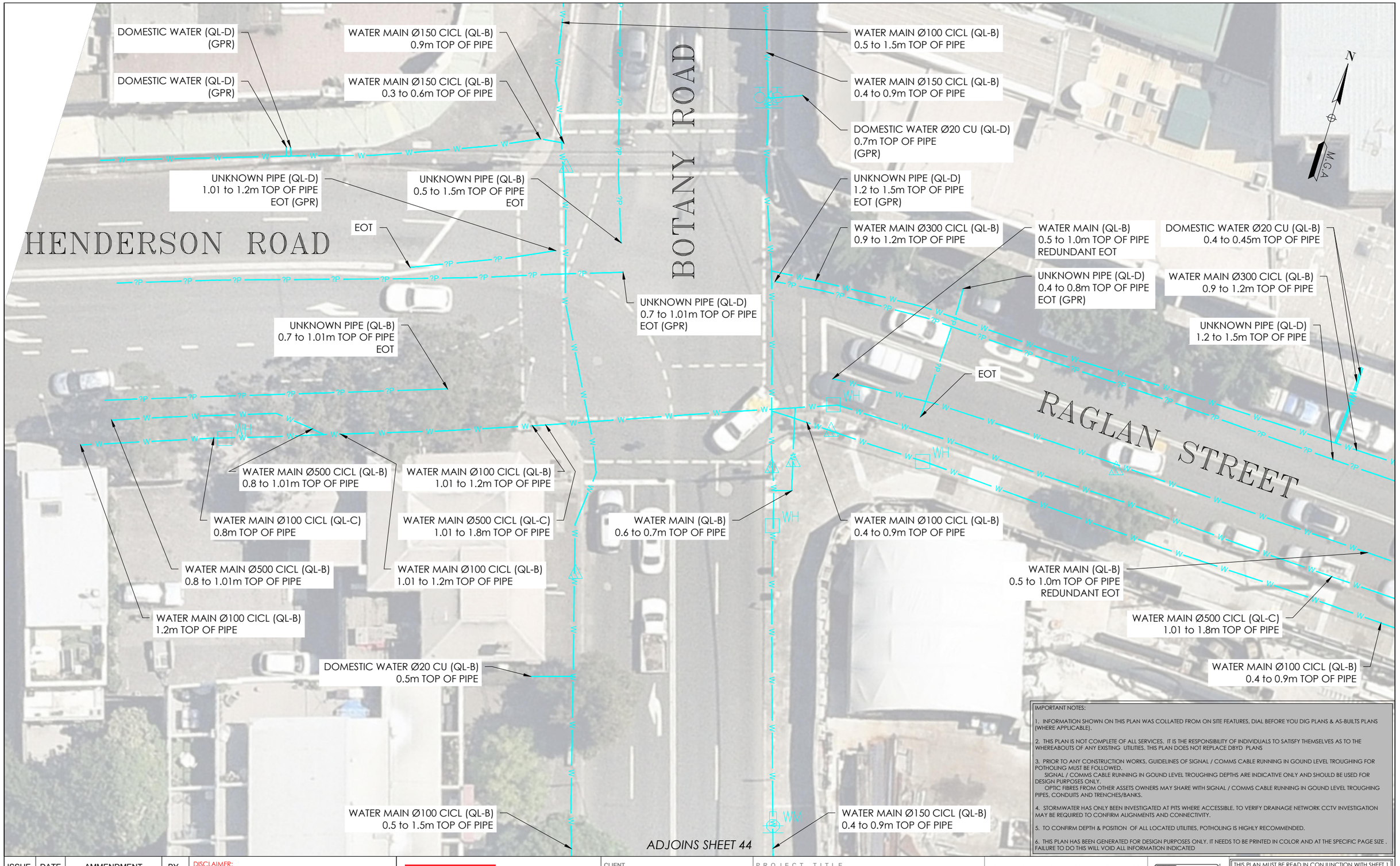
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 45 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 45




ADJOINS SHEET 44

ADJOINS SHEET 47

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

WATER

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. |
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| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 46 OF 75 |

JOB NUMBER 202254

DRAWING NUMBER / ISSUE 202254-UTILS-001A

ADJOINS SHEET 36

ADJOINS SHEET 46

UNKNOWN PIPE (QL-D)
1.2 to 1.5m TOP OF PIPE

DOMESTIC WATER Ø20 CU (QL-B)
0.4 to 0.45m TOP OF PIPE

WATER MAIN Ø300 CICL (QL-B)
0.9 to 1.2m TOP OF PIPE

WATER MAIN Ø300 CICL (QL-D)
0.8 to 1.8m TOP OF PIPE
(GPR)

WATER MAIN (QL-D)
0.4 to 0.8m TOP OF PIPE
(GPR)

EOT

WATER MAIN Ø300 CICL (QL-D)
1.8m TOP OF PIPE
(GPR)

WATER MAIN Ø500 CICL (QL-B)
1.01 to 1.5m TOP OF PIPE

WATER MAIN (QL-B)
0.5 to 1.0m TOP OF PIPE
EOT (REDUNDANT)

WATER MAIN Ø500 CICL (QL-C)
1.01 to 1.8m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

WATER MAIN (QL-B)
0.5 to 1.0m TOP OF PIPE
EOT (REDUNDANT)

WATER MAIN Ø500 CICL (QL-B)
1.01 to 1.5m TOP OF PIPE

WATER MAIN Ø450 CICL (QL-B)
1.2 to 1.7m TOP OF PIPE

WATER MAIN Ø150 CICL (QL-B)
0.5 to 0.7m TOP OF PIPE

WATER MAIN Ø450 CICL (QL-B)
0.8 to 1.2m TOP OF PIPE

WATER MAIN (QL-D)
1.2 to 1.5m TOP OF PIPE
EOT (GPR)

WATER MAIN (QL-D)
AS PER DBYD

UNKNOWN PIPE Ø450 CICL (QL-D)
0.6 to 0.7m TOP OF PIPE
EOT (GPR)

WATER MAIN Ø150 CICL (QL-B)
0.8 to 1.2m TOP OF PIPE
SCOUR VALVE OUTLET

UNKNOWN PIPE (QL-B)
0.6m TOP OF PIPE
EOT

UNKNOWN PIPE (QL-D)
0.43 to 0.9m TOP OF PIPE
EOT (GPR)

UNKNOWN PIPE (QL-D)
1.15 to 1.43m TOP OF PIPE
EOT (GPR)

UNKNOWN PIPE (QL-D)
0.6 to 0.75m TOP OF PIPE
EOT (GPR)

WATER MAIN Ø300 CICL (QL-D)
0.8 to 1.8m TOP OF PIPE
(GPR)

UNKNOWN PIPE (QL-D)
0.86m TOP OF PIPE
EOT (GPR)

EOT

WATER MAIN (QL-B)
0.43 to 0.9m TOP OF PIPE
EOT (REDUNDANT)

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

DOMESTIC WATER Ø20 CU (QL-B)
0.5m TOP OF PIPE

WATER MAIN Ø450 CICL (QL-B)
0.6 to 1.2m TOP OF PIPE

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

COPE STREET

RAGLAN STREET

N

W.G.A

ADJOINS SHEET 37

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

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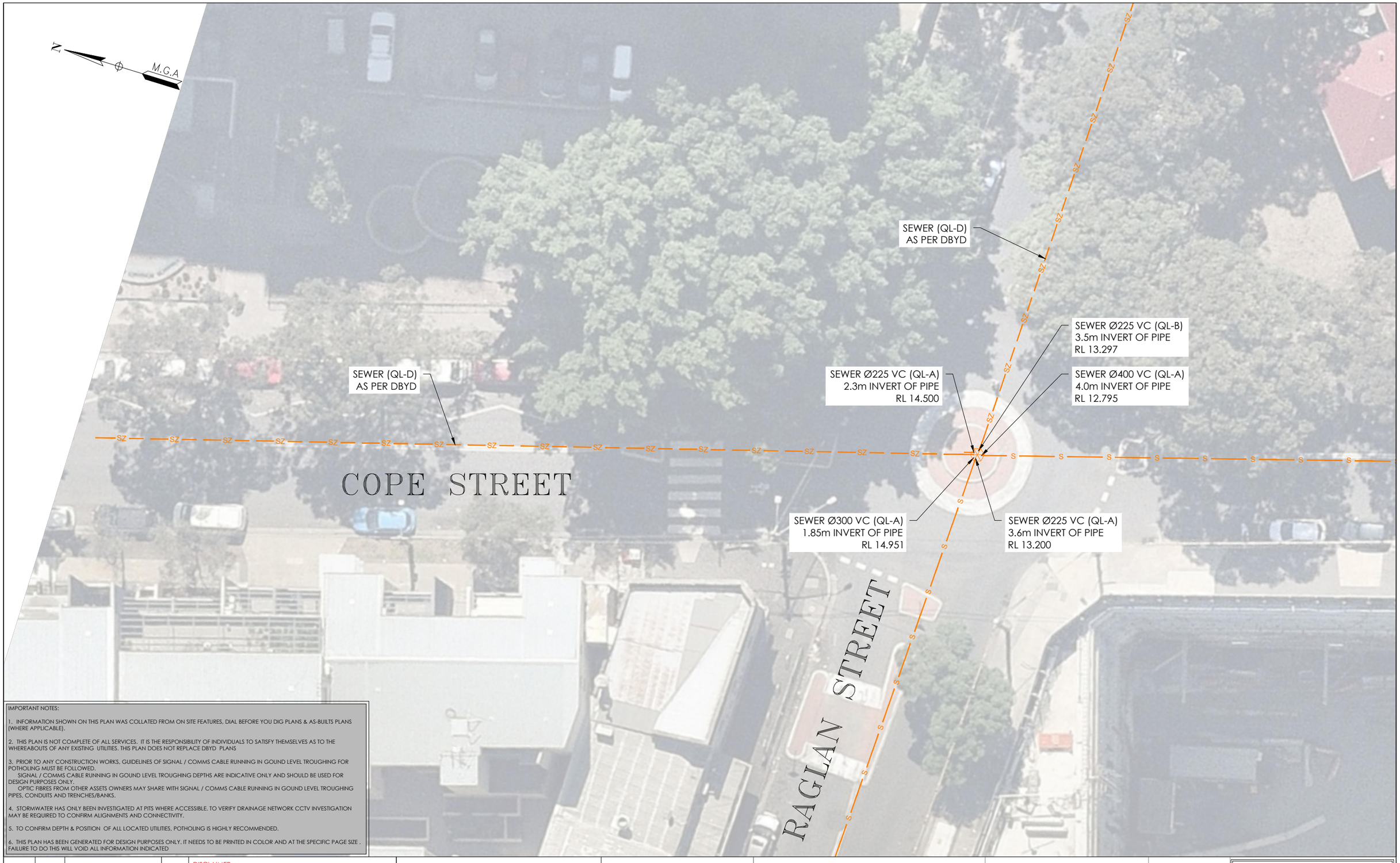
| HEIGHT DATUM: | AHD71 | CO-ORD: | MGA94 |
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 47 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

SEWAGE

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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JOB NUMBER 202254

DRAWING NUMBER / ISSUE 202254-UTILS-001A

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| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 48 OF 75 |

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N
M.G.A

ADJOINS SHEET 48

SEWER Ø400 VC (QL-D)
3.4m TOP OF PIPE
(GPR)

SLH

SLH

SEWER Ø400 VC (QL-D)
3.3m TOP OF PIPE
(GPR)

ADJOINS SHEET 50

COPE STREET

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

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W: www.veris.com.au
ABN 53 615 735 727

CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

SEWAGE

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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| | | | |
|---|---|---|---|
| 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: | 49 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 49

ADJOINS SHEET 51

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|---|---|---|---|
| A | 03/06/20 | ORIGINAL UTILITIES PLAN | J.V. |
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SEWAGE

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10

SCALE IN METERS 1: 250

| | |
|---|---|
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| SURVEYED BY: | Y.M./A.D. |
| DRAFTED BY: | J.V. |
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| ORIGINAL SIZE : | A3 | SHEET: | 50 OF 75 |

JOB NUMBER

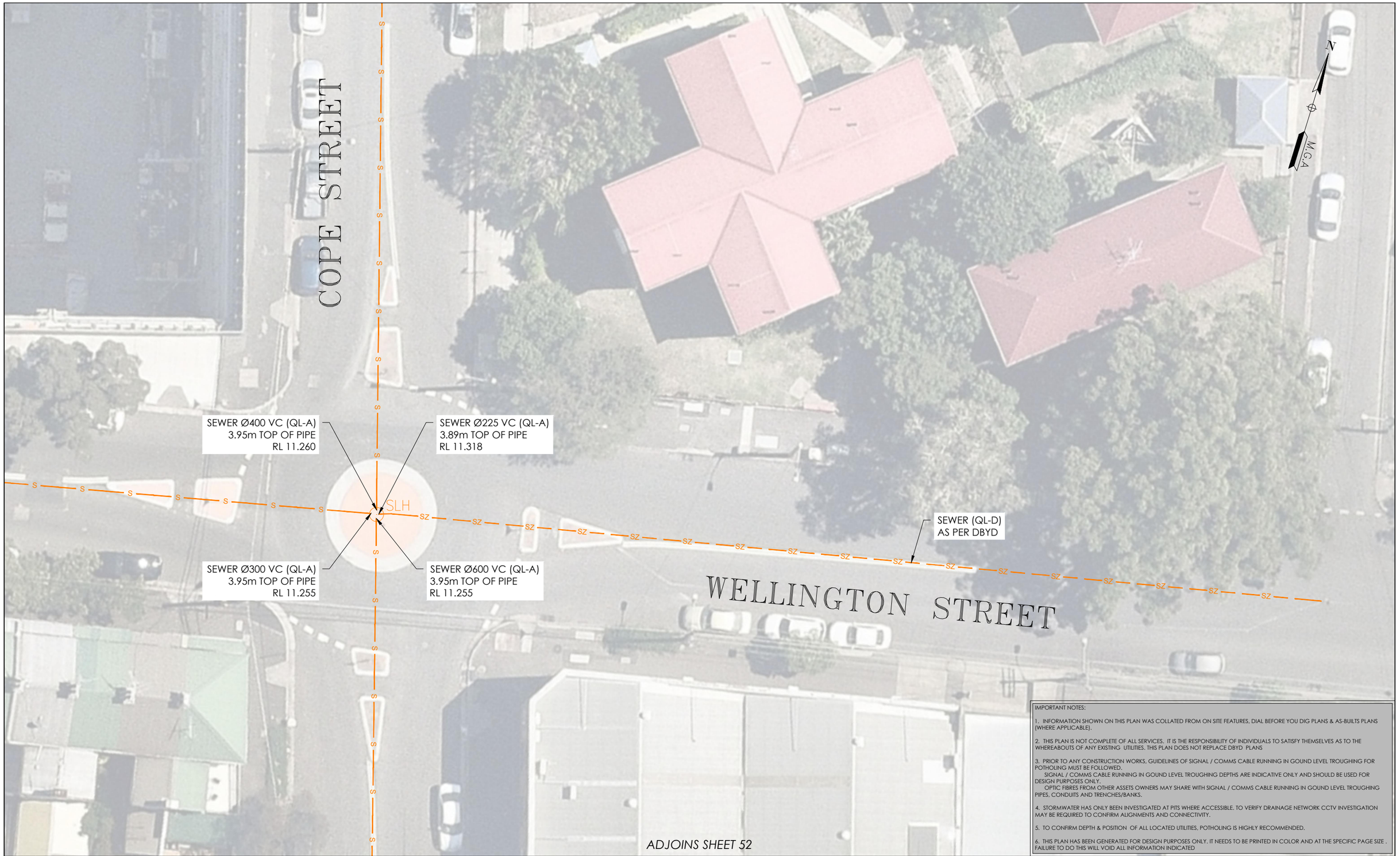
202254

DRAWING NUMBER / ISSUE

202254-UTILS-001A

ADJOINS SHEET 50

ADJOINS SHEET 53




ADJOINS SHEET 52

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

SEWAGE

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
|---|---|
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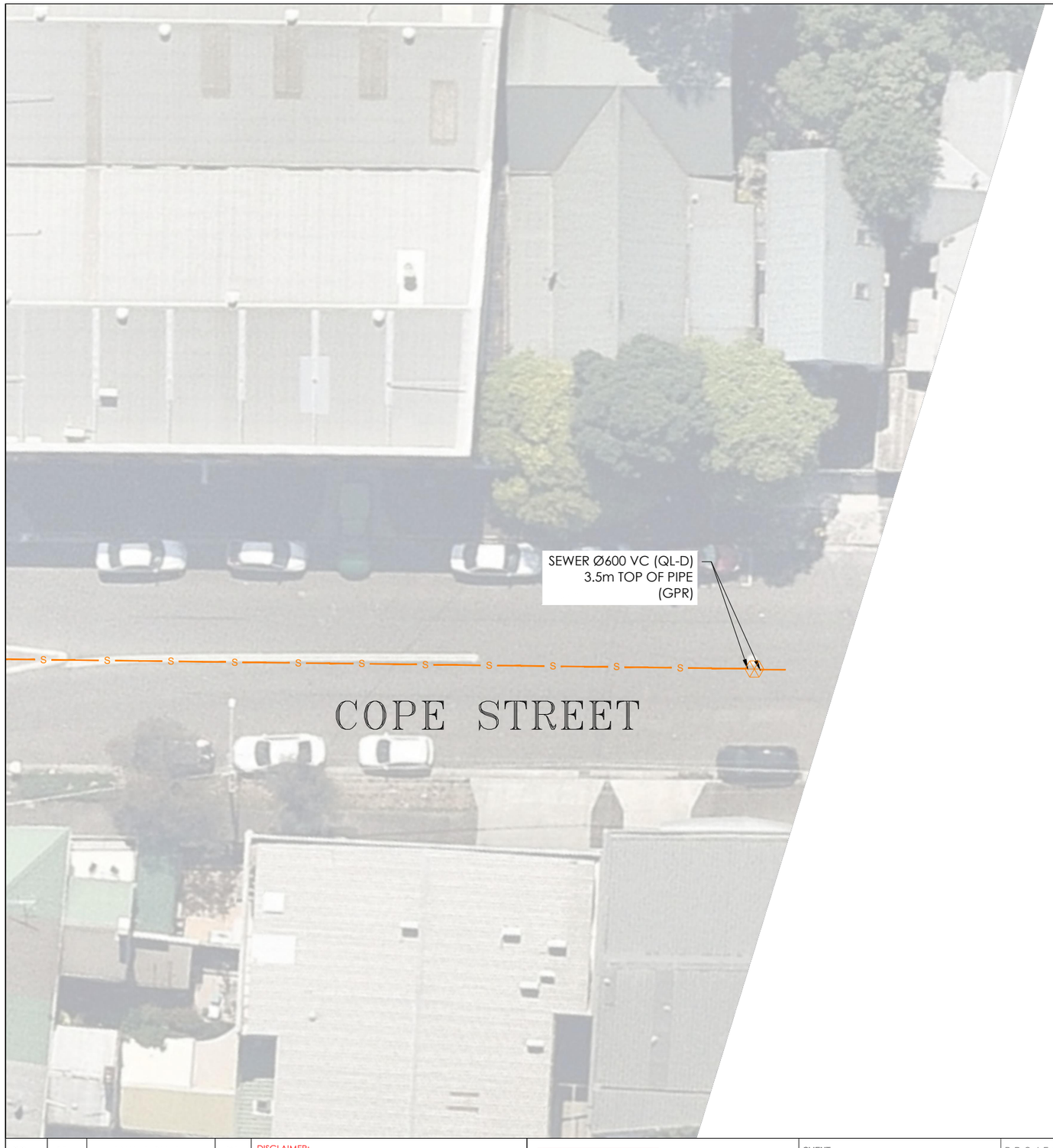
| ORIGINAL SIZE : | A3 | SHEET: | 51 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 51




N
M.G.A

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

SEWAGE

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. |
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| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 52 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 54

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N

M.G.A

SEWER Ø225 VC (QL-A)
3.47m INVERT OF PIPE
RL 11.719

SEWER Ø300 VC (QL-A)
3.48m INVERT OF PIPE
RL 11.711

SEWER Ø300 VC (QL-A)
3.48m INVERT OF PIPE
RL 11.719

SEWER (QL-D)
AS PER DBYD

SEWER Ø225 VC (QL-A)
3.4m INVERT OF PIPE
RL 11.791

SEWER Ø225 VC (QL-A)
1.62m INVERT OF PIPE
RL 13.579

SEWER Ø225 VC (QL-C)

SLH

WELLINGTON STREET

BOTANY ROAD

ADJOINS SHEET 51

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

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JOHN HOLLAND

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SEWAGE

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. |
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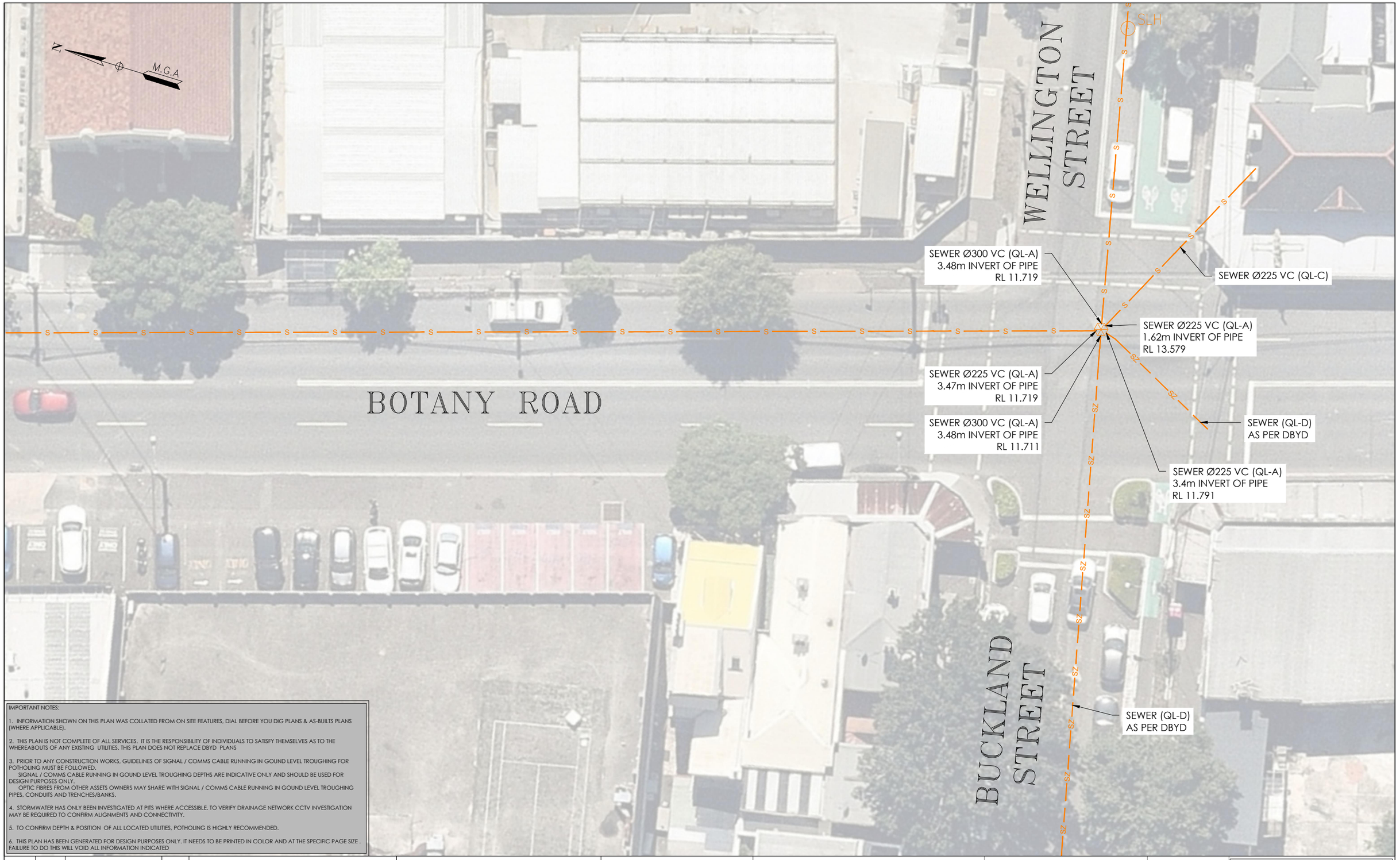
| ORIGINAL SIZE : | A3 | SHEET: | 53 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 53

ADJOINS SHEET 55

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0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
|---|---|
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| SURVEYED BY: | Y.M./A.D. |
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JOB NUMBER
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W: www.veris.com.au
ABN 53 615 735 727

CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

SEWAGE

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. |

DIAL BEFORE YOU DIG www.1100.com.au

THIS PLAN DOES NOT REPLACE DBYD PLANS

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: | 55 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 58

ADJOINS SHEET 57

ADJOINS SHEET 55

RAGLAN STREET

BOTANY ROAD

HENDERSON ROAD

SEWER (QL-D)
AS PER DBYD

SEWER Ø225 VC (QL-A)
1.5m INVERT OF PIPE
RL 14.982

SEWER Ø225 VC (QL-A)
2.9m INVERT OF PIPE
RL 13.569

SLH

SEWER (QL-D)
AS PER DBYD

SEWER (QL-D)
2.6m INVERT OF PIPE
(GPR)

SEWER (QL-D)
2.6m INVERT OF PIPE
(GPR)

SEWER (QL-D)
AS PER DBYD

M.G.A

IMPORTANT NOTES:

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| ISSUE | DATE | AMMENDMENT | BY |
|---|---|---|---|
| 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

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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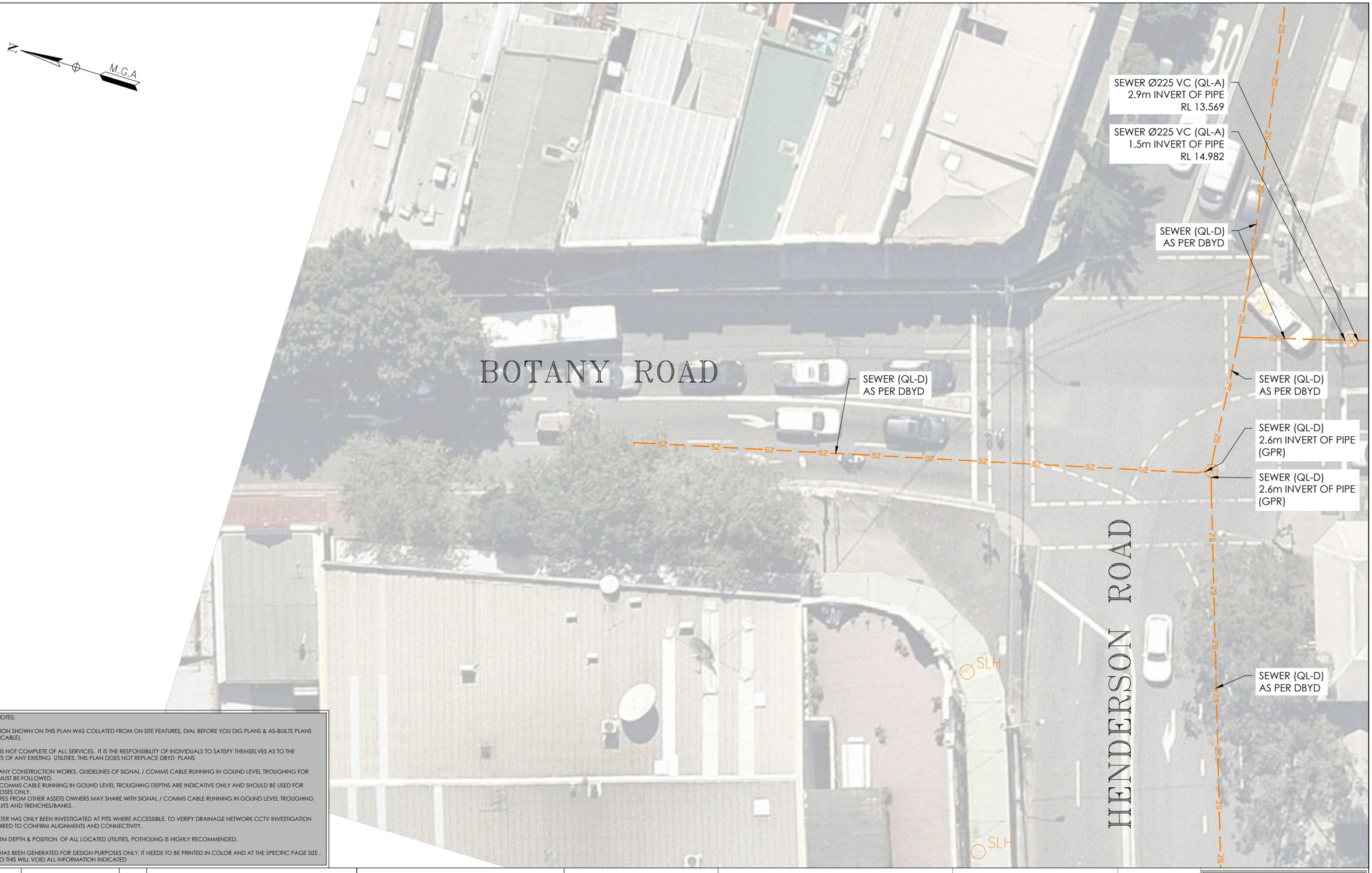
| HEIGHT DATUM: AHD71 | CO-ORD: MGA94 |
| DBYD JOB# : 19449303/22/34 | DBYD DATE: 30/04/2020 |
| ORIGINAL SIZE : A3 | SHEET: 56 OF 75 |

JOB NUMBER

202254

DRAWING NUMBER / ISSUE

202254-UTILS-001A

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

SEWAGE

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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JOB NUMBER
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| DBYD JOB# : 19449303/22/34 | DBYD DATE: 30/04/2020 |
| ORIGINAL SIZE : A3 | SHEET: 57 OF 75 |

ADJOINS SHEET 57

HENDERSON ROAD

RAGLAN STREET

BOTANY ROAD

SLH

SLH

SEWER (QL-D)
AS PER DBYD

SEWER (QL-D)
2.6m INVERT OF PIPE
(GPR)

SEWER (QL-D)
2.6m INVERT OF PIPE
(GPR)

SEWER (QL-D)
AS PER DBYD

SEWER (QL-D)
AS PER DBYD

SEWER (QL-D)
AS PER DBYD

SEWER Ø225 VC (QL-A)
3.0m INVERT OF PIPE
RL 13.809

SEWER Ø225 VC (QL-A)
1.5m INVERT OF PIPE
RL 14.982

SEWER Ø225 VC (QL-A)
2.9m INVERT OF PIPE
RL 13.569

SEWER Ø225 VC (QL-A)
3.0m INVERT OF PIPE
RL 13.793

SEWER Ø225 VC (QL-A)
3.05m INVERT OF PIPE
RL 13.756

N

M.G.A

ADJOINS SHEET 56

ADJOINS SHEET 59

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| 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

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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| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 58 OF 75 |

JOB NUMBER

202254

DRAWING NUMBER / ISSUE

202254-UTILS-001A

ADJOINS SHEET 48

ADJOINS SHEET 58

SEWER (QL-D)
AS PER DBYD

SEWER Ø300 VC (QL-A)
1.85m INVERT OF PIPE
RL 14.951

SEWER Ø225 VC (QL-A)
2.3m INVERT OF PIPE
RL 14.500

SEWER Ø225 VC (QL-A)
3.6m INVERT OF PIPE
RL 13.200

SEWER (QL-D)
AS PER DBYD

SEWER Ø225 VC (QL-B)
3.5m INVERT OF PIPE
RL 13.297

SEWER Ø400 VC (QL-A)
4.0m INVERT OF PIPE
RL 12.795

COPE STREET

RAGLAN STREET

N

M.G.A

ADJOINS SHEET 49

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| 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

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. |
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| DBYD JOB# : 19449303/22/34 | DBYD DATE: 30/04/2020 |
| ORIGINAL SIZE : A3 | SHEET: 59 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

N
M.G.A

COPE STREET

RAGLAN STREET

GAS Ø75 4NB 210KPa (QL-D)
0.45 to 0.5m TOP OF PIPE
(GPR)

GAS Ø32 6NB (QL-D)
0.5 to 0.9m TOP OF PIPE
(GPR)

GAS Ø75 4NB 210KPa (QL-D)
0.45 to 0.5m TOP OF PIPE
(GPR)

GAS Ø32 6NB (QL-D)
0.5 to 0.9m TOP OF PIPE
(GPR)

GAS Ø50 4NB 210KPa (QL-D)
0.4 to 0.56m TOP OF PIPE
(GPR)

GAS Ø50 4NB 210KPa (QL-D)
0.6 to 0.9m TOP OF PIPE
(GPR)

GAS Ø50 4NB 210KPa (QL-D)
0.8 to 1.2m TOP OF PIPE
(GPR)

GAS Ø75 4NB 120KPa (QL-D)
0.5 to 0.8m TOP OF PIPE
(GPR)

GAS Ø32 3NB (QL-D)
0.8 to 1.01m TOP OF PIPE
(GPR)

DOMESTIC GAS (QL-D)
0.6m TOP OF PIPE
(GPR)

DOMESTIC GAS (QL-D)
0.3 to 0.7m TOP OF PIPE
(GPR)

GAS Ø75 4NB 120KPa (QL-D)
0.5 to 0.8m TOP OF PIPE
(GPR)

GAS Ø110 12NB 210KPa (QL-D)
0.8m TOP OF PIPE
(GPR)

GAS Ø50 4NB 210KPa (QL-D)
0.6 to 0.9m TOP OF PIPE
(GPR)

ADJOINS SHEET 61

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

GAS

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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| ORIGINAL SIZE : | A3 | SHEET: | 60 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
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N
M.G.A

GAS Ø32 6NB (QL-D)
0.5 to 0.9m TOP OF PIPE
(GPR)

DOMESTIC GAS
(QL-D)
(GPR)

GAS Ø32 6NB (QL-D)
0.5 to 0.9m TOP OF PIPE
(GPR)

GAS Ø50 4NB 210KPa (QL-D)
0.4 to 0.56m TOP OF PIPE
(GPR)

COPE STREET

GAS Ø32 3NB (QL-D)
0.8 to 1.01m TOP OF PIPE
(GPR)

GAS Ø32 3NB (QL-D)
0.8 to 1.01m TOP OF PIPE
(GPR)

ADJOINS SHEET 60

ADJOINS SHEET 62

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

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W: www.veris.com.au
ABN 53 615 735 727

CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

GAS

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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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: | 61 OF 75 |

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 61

ADJOINS SHEET 63

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

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WATERLOO STATION

GAS

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SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

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| ORIGINAL SIZE : | A3 | SHEET: | 62 OF 75 |

JOB NUMBER
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202254-UTILS-001A

ADJOINS SHEET 62

ADJOINS SHEET 65

GAS Ø32 3NB (QL-D)
0.8 to 1.01m TOP OF PIPE
(GPR)

GAS Ø32 6NB (QL-D)
0.5 to 0.9m TOP OF PIPE
(GPR)

COPE STREET

GAS Ø32 6NB (QL-D)
0.5 to 0.9m TOP OF PIPE
(GPR)

GAS Ø50 (QL-D)
0.6 to 0.7m TOP OF PIPE
(GPR)

GAS Ø50 (QL-D)
0.6 to 0.7m TOP OF PIPE
(GPR)

GAS Ø32 3NB (QL-D)
0.8 to 1.01m TOP OF PIPE
(GPR)

WELLINGTON STREET

DOMESTIC GAS (QL-D)
0.3m TOP OF PIPE
(GPR)

GAS Ø50 9NB 210KPa (QL-D)
0.4 to 0.8m TOP OF PIPE
(GPR)

DOMESTIC GAS (QL-D)
0.4m TOP OF PIPE
(GPR)

GAS Ø50 9NB 210KPa (QL-D)
0.4 to 0.8m TOP OF PIPE
(GPR)

N

MGA

ADJOINS SHEET 64

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| ORIGINAL SIZE : | A3 | SHEET: | 63 OF 75 |

N
M.G.A

ADJOINS SHEET 63

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

GAS

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

0 2 4 6 8 10
SCALE IN METERS 1: 250

| | |
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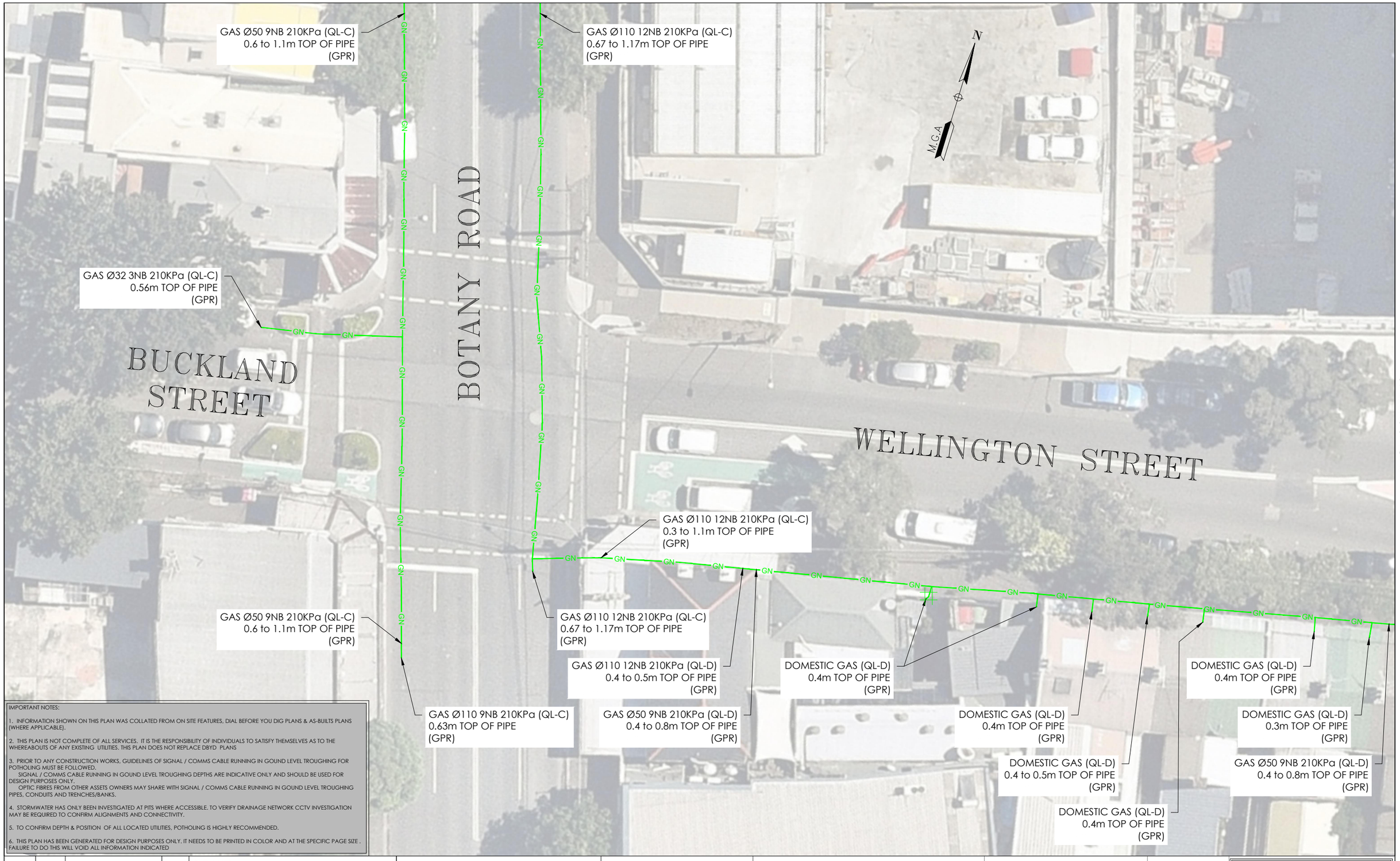
| ORIGINAL SIZE : | A3 | SHEET: | 64 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 66




ADJOINS SHEET 63

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WATERLOO STATION

GAS

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0 2 4 6 8 10
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| | |
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| LOCATED BY: | L.B. |
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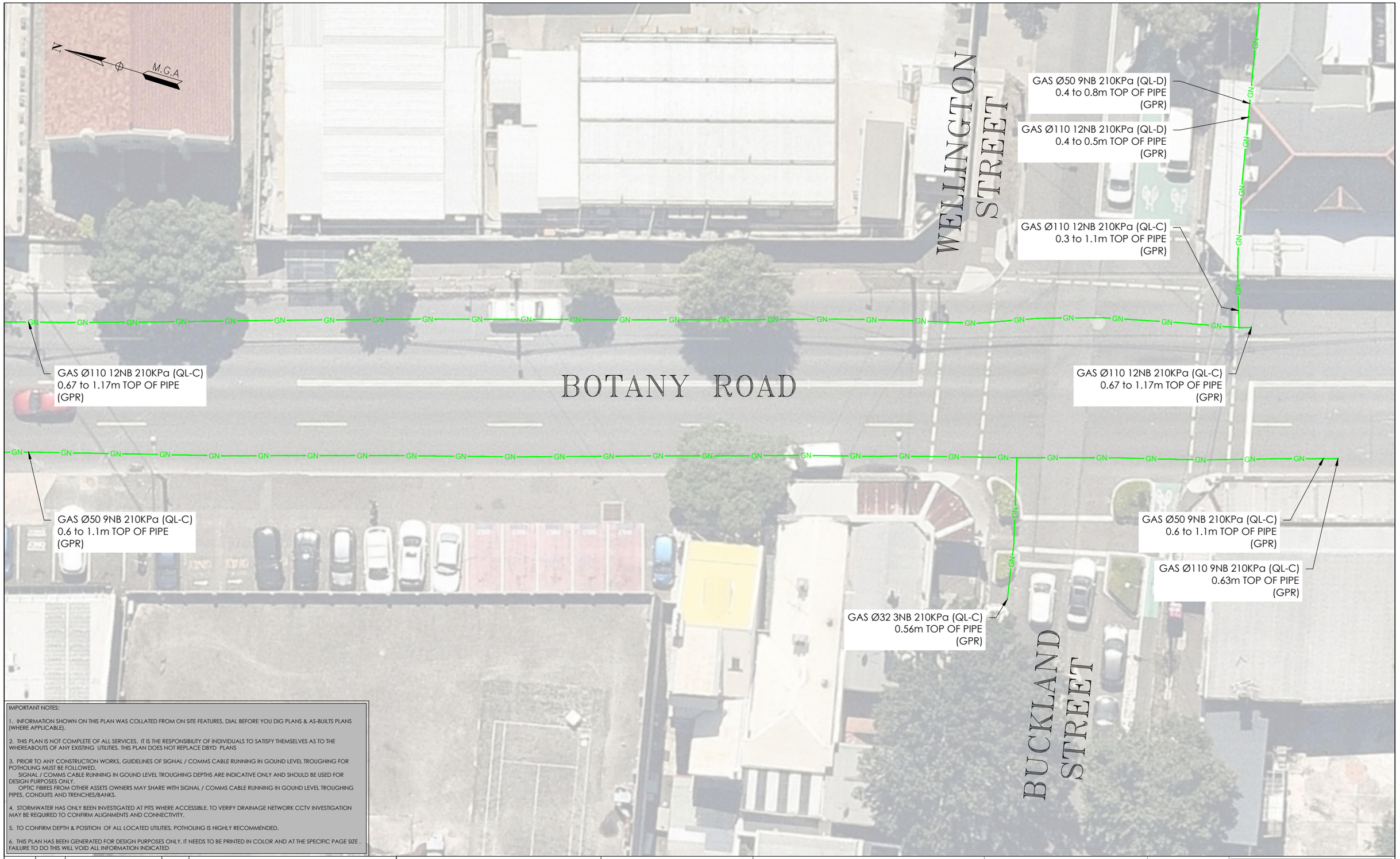
JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 65

ADJOINS SHEET 67

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0 2 4 6 8 10
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| | |
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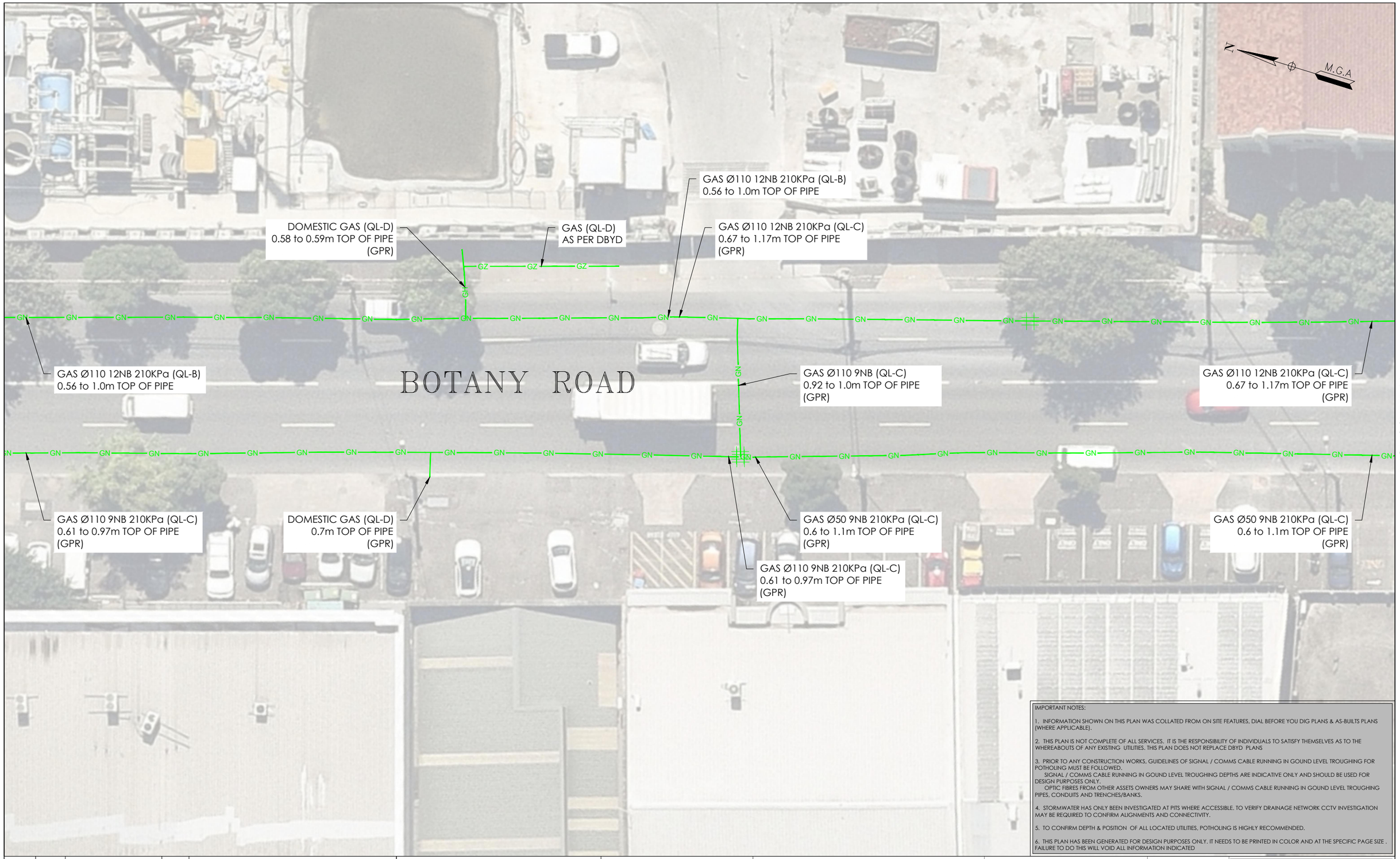


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| HEIGHT DATUM: | AHD71 | CO-ORD: | MGA94 |
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 67 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 70

ADJOINS SHEET 69

ADJOINS SHEET 67

RAGLAN STREET

BOTANY ROAD

HENDERSON ROAD

GAS Ø110 12NB 210KPa (QL-D)
0.8m TOP OF PIPE
(GPR)

GAS Ø110 12NB 210KPa (QL-D)
0.8m TOP OF PIPE
(GPR)

GAS Ø110 12NB 210KPa (QL-C)
0.69m TOP OF PIPE
(GPR)

GAS Ø110 12NB 210KPa (QL-C)
0.69m TOP OF PIPE
(GPR)

GAS Ø110 12NB 210KPa (QL-B)
0.56 to 1.0m TOP OF PIPE

GAS Ø110 12NB 210KPa (QL-B)
0.56 to 1.0m TOP OF PIPE

GAS Ø110 9NB 210KPa (QL-C)
0.61 to 0.97m TOP OF PIPE
(GPR)

GAS Ø110 12NB 210KPa (QL-D)
(GPR)

DOMESTIC GAS (QL-D)
0.43m TOP OF PIPE
(GPR)

GAS Ø110 9NB 210KPa (QL-C)
0.61 to 0.97m TOP OF PIPE
(GPR)

GAS Ø110 12NB 210KPa (QL-D)
(GPR)

IMPORTANT NOTES:

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M.G.A

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

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W: www.veris.com.au
ABN 53 615 735 727

CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

GAS

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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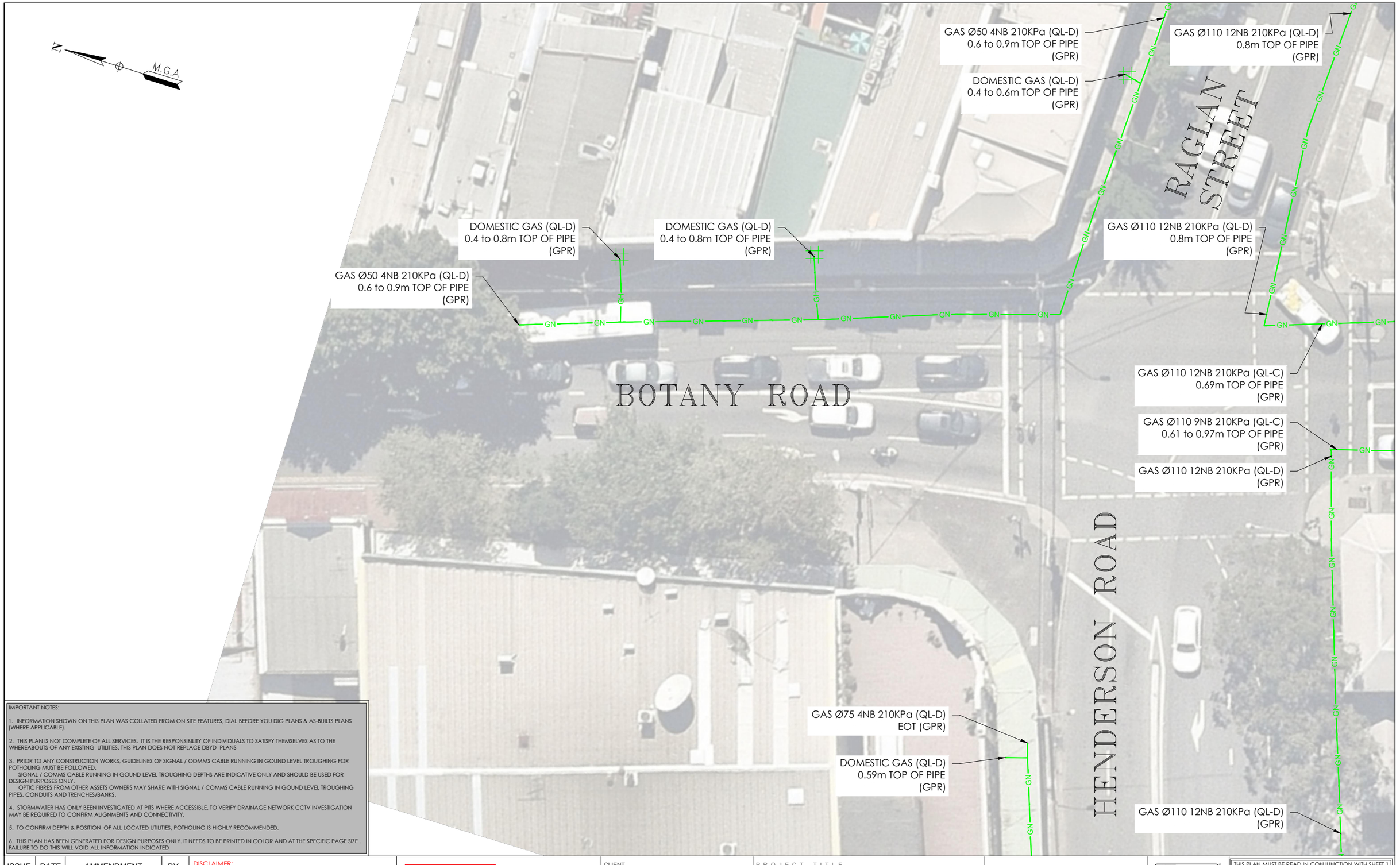
| HEIGHT DATUM: | AHD71 | CO-ORD: | MGA94 |
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 68 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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ABN 53 615 735 727

CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

GAS

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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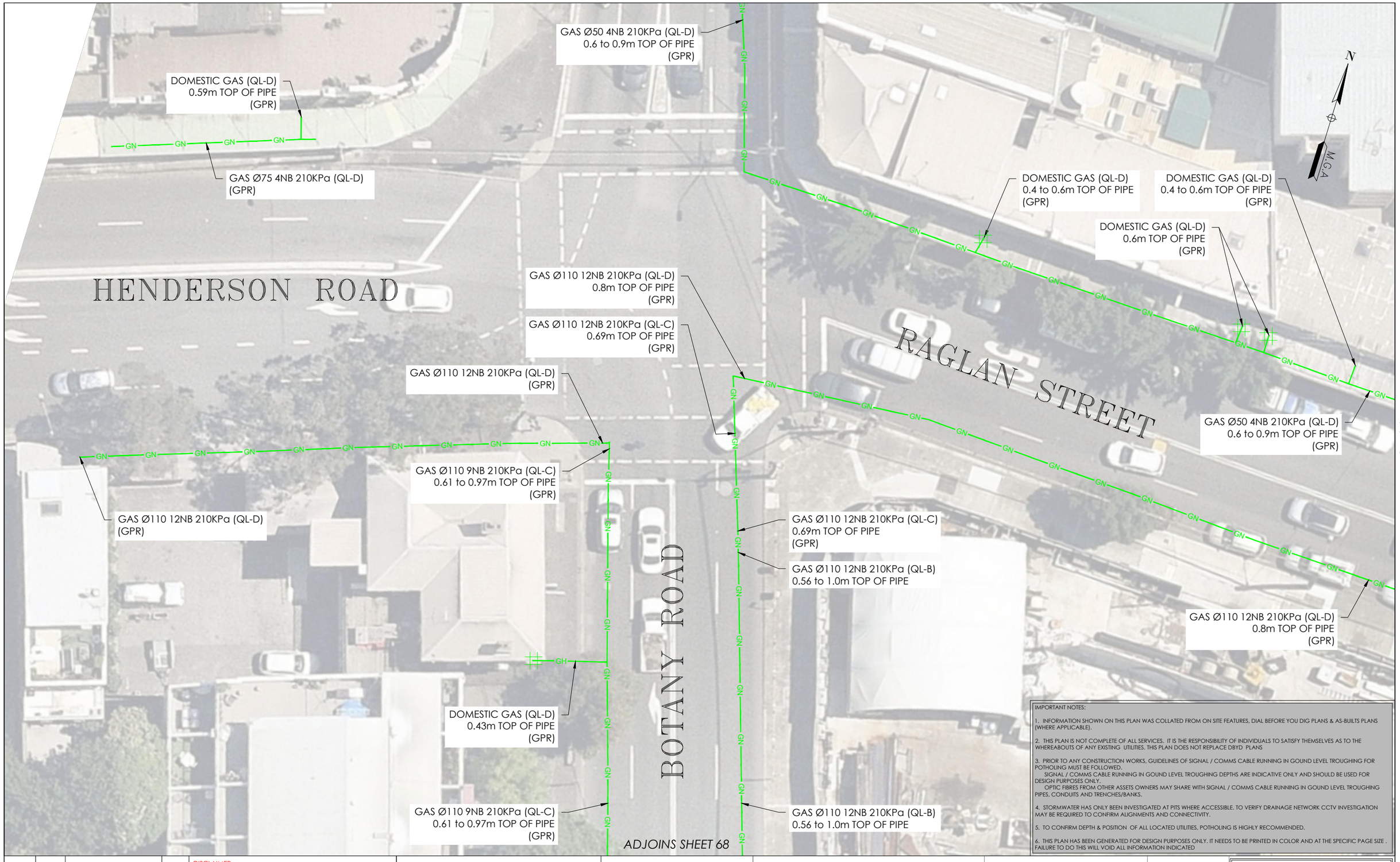
| ORIGINAL SIZE : | A3 | SHEET: | 69 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 69




ADJOINS SHEET 68

ADJOINS SHEET 71

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W: www.veris.com.au
ABN 53 615 735 727

CLIENT: JOHN HOLLAND

PROJECT TITLE: WATERLOO STATION

GAS

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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JOB NUMBER: 202254

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|---|---|
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| HEIGHT DATUM: AHD71 | CO-ORD: MGA94 |
| DBYD JOB# : 19449303/22/34 | DBYD DATE: 30/04/2020 |
| ORIGINAL SIZE : A3 | SHEET: 70 OF 75 |

ADJOINS SHEET 60

ADJOINS SHEET 70

DOMESTIC GAS (QL-D)
0.4 to 0.6m TOP OF PIPE
(GPR)

DOMESTIC GAS (QL-D)
0.3 to 0.7m TOP OF PIPE
(GPR)

DOMESTIC GAS (QL-D)
0.6m TOP OF PIPE
(GPR)

GAS Ø50 4NB 210KPa (QL-D)
0.6 to 0.9m TOP OF PIPE
(GPR)

GAS Ø50 4NB 210KPa (QL-D)
0.6 to 0.9m TOP OF PIPE
(GPR)

GAS Ø50 4NB 210KPa (QL-D)
0.8 to 1.2m TOP OF PIPE
(GPR)

GAS Ø110 12NB 210KPa (QL-D)
0.8m TOP OF PIPE
(GPR)

GAS Ø110 12NB 210KPa (QL-D)
0.8m TOP OF PIPE
(GPR)

GAS Ø75 4NB 120KPa (QL-D)
0.5 to 0.8m TOP OF PIPE
(GPR)

GAS Ø75 4NB 210KPa (QL-D)
0.45 to 0.5m TOP OF PIPE
(GPR)

GAS Ø75 4NB 210KPa (QL-D)
0.45 to 0.5m TOP OF PIPE
(GPR)

GAS Ø32 6NB (QL-D)
0.5 to 0.9m TOP OF PIPE
(GPR)

GAS Ø50 4NB 210KPa (QL-D)
0.4 to 0.56m TOP OF PIPE
(GPR)

GAS Ø75 4NB 120KPa (QL-D)
0.5 to 0.8m TOP OF PIPE
(GPR)

GAS Ø32 3NB (QL-D)
0.8 to 1.01m TOP OF PIPE
(GPR)

GAS Ø32 6NB (QL-D)
0.5 to 0.9m TOP OF PIPE
(GPR)

COPE STREET

RAGLAN STREET

N

W.G.A

ADJOINS SHEET 61

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

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

GAS

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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| 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 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 73

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CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

TRAM TRACKS

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. |
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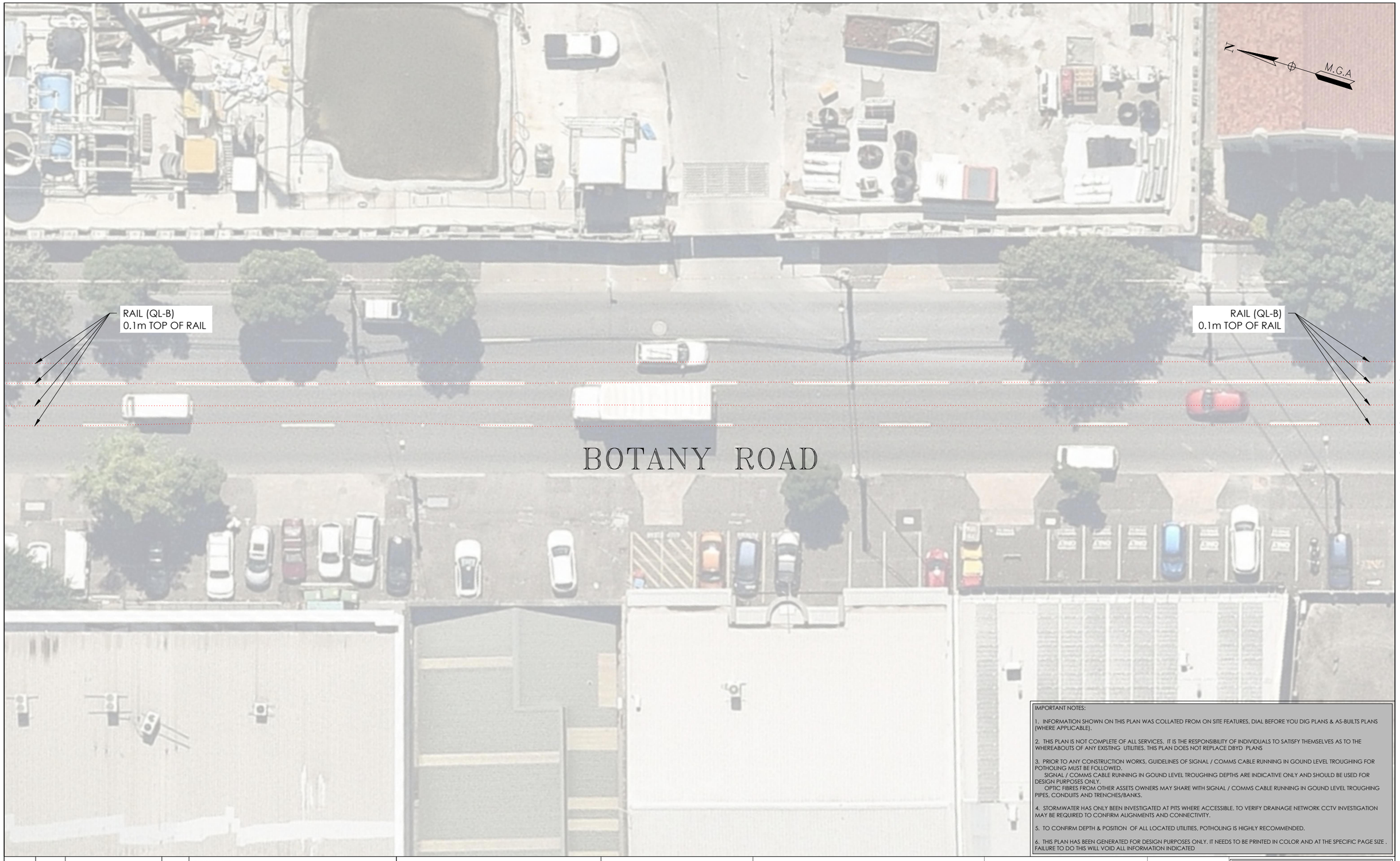
| ORIGINAL SIZE : A3 | SHEET: 72 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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PROJECT TITLE

WATERLOO STATION

TRAM TRACKS

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

| | | | |
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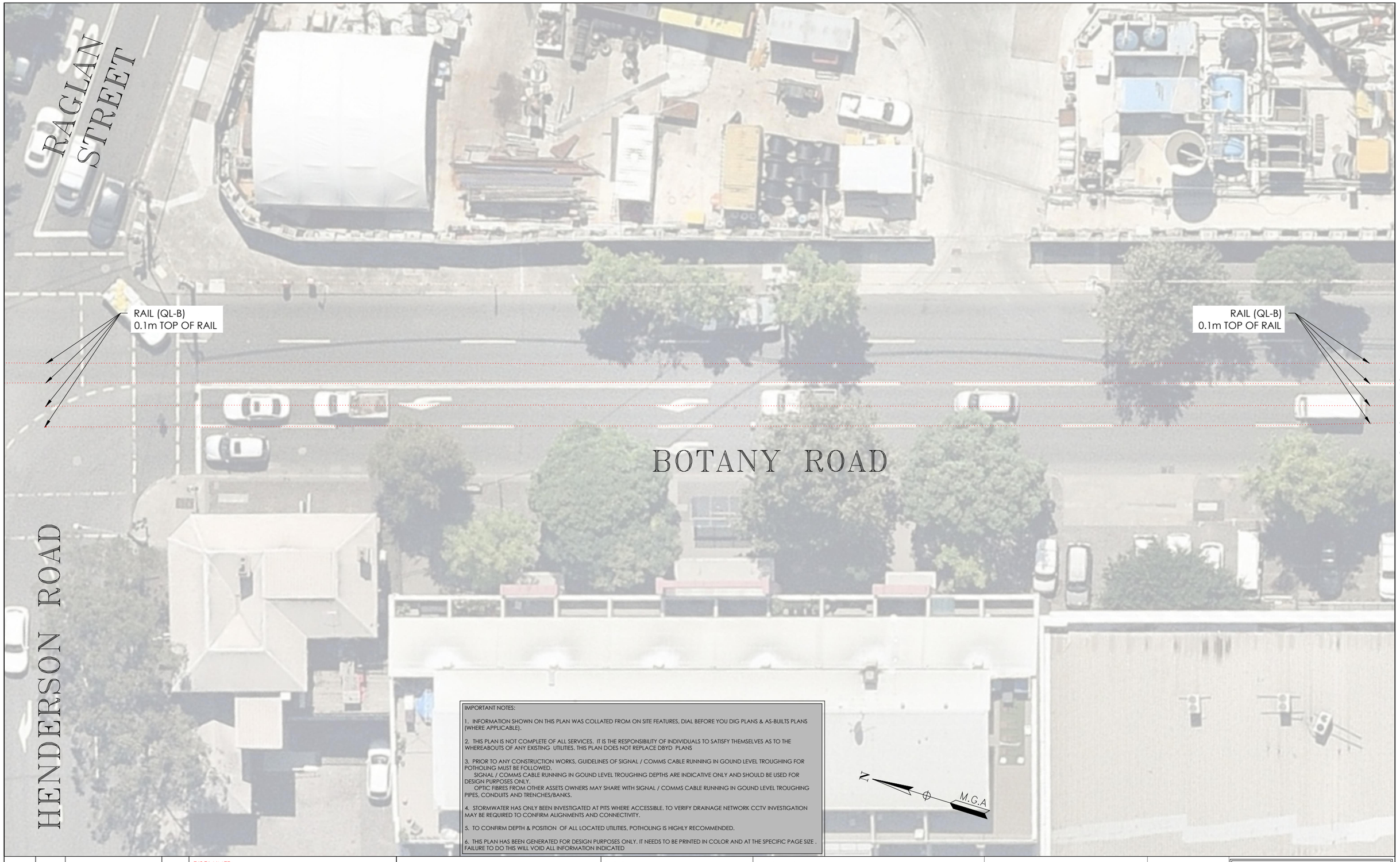
| DATE OF SURVEY: | 24/06/2020 | DATE OF PLAN: | 03/06/2020 |
| HEIGHT DATUM: | AHD71 | CO-ORD: | MGA94 |
| DBYD JOB# : | 19449303/22/34 | DBYD DATE: | 30/04/2020 |
| ORIGINAL SIZE : | A3 | SHEET: | 73 OF 75 |

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A




ADJOINS SHEET 75

ADJOINS SHEET 73

IMPORTANT NOTES:

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3. PRIOR TO ANY CONSTRUCTION WORKS, GUIDELINES OF SIGNAL / COMMS CABLE RUNNING IN GOUND LEVEL TROUGHING FOR POTHOLING MUST BE FOLLOWED.
SIGNAL / COMMS CABLE RUNNING IN GOUND 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 GOUND 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 |
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| A | 03/06/20 | ORIGINAL UTILITIES PLAN | J.V. |

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ABN 53 615 735 727

CLIENT

JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

TRAM TRACKS

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

SCALE IN METERS 1: 250

0 2 4 6 8 10

| | |
|---|---|
| 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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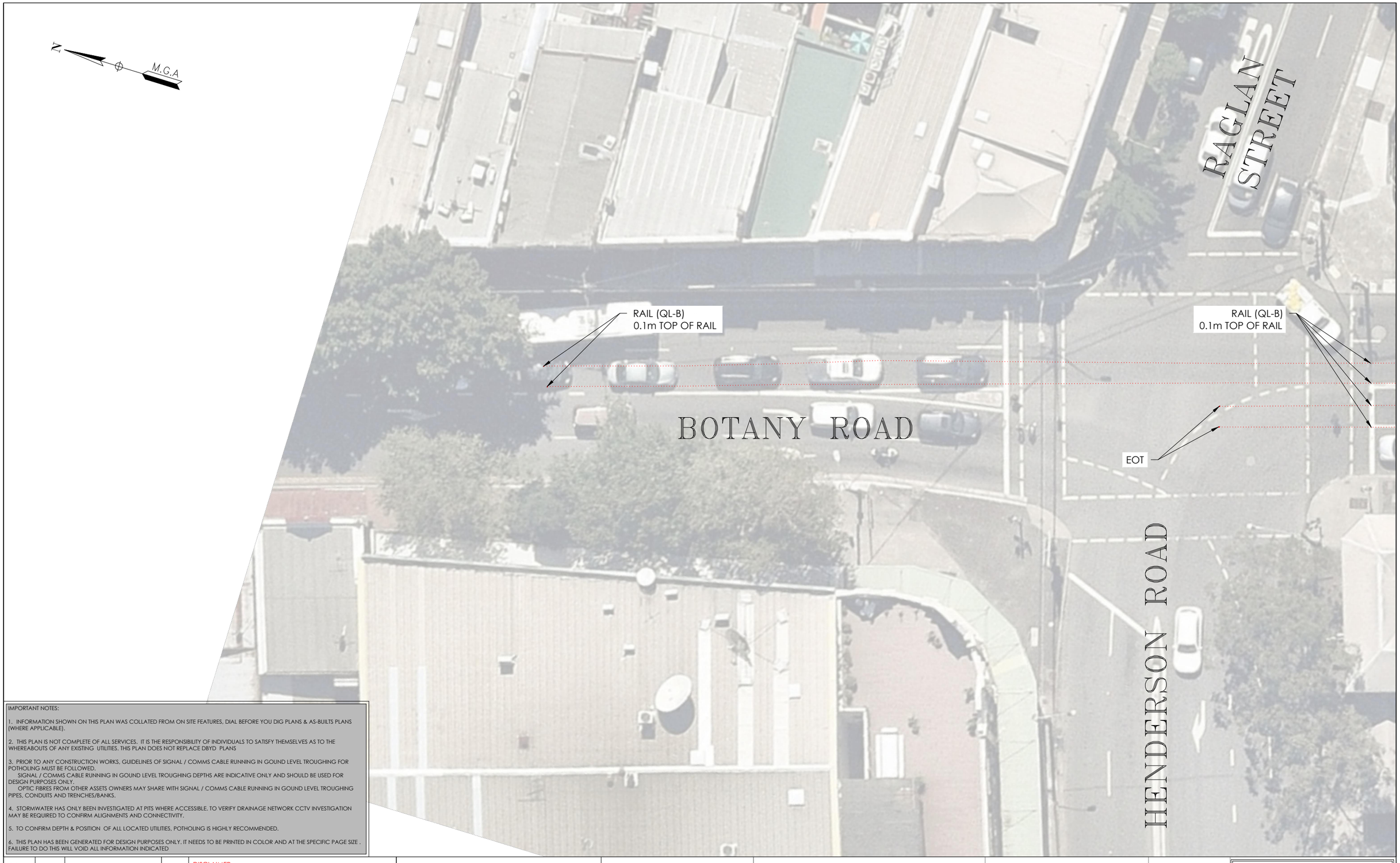


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