



# WATERLOO METRO QUARTER OVER STATION DEVELOPMENT

**Environmental Impact Statement Appendix C - Site Title Diagrams and Survey Plans** 

SSD-10437 Southern Precinct SSD-10438
Basement Car Park SSD-10439 Central
Precinct SSD-10440 Northern Precinct
SSD-10441 Amending Concept

State Significant Development

**Development Application** 

Prepared for Waterloo Developer Pty Ltd

30 September 2020





Reference	Description	
Applicable SSD Applications	SSD-10437 Southern Precinct	
Applications	SSD-10438 Basement Carpark	
	SSD-10439 Central Precinct	
	SSD-10440 Northern Precinct	
	SSD-10441 Amending Concept	
Author	Veris	
	Tasy Moraitis, Registered Surveyor	
Reviewed	Waterloo Developer Pty Ltd	
	Nick Owen	
Document Number	WMQ-SITE-VER-SU-DRG-0001	
Status	Final	
Version 1		
Date of Issue	24 July 2020	
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1. Appendix 1 – Waterloo Metro Quarter Site Identification Report

17 July 2020

Ref: 202254.01B.01.20-IDT.TM



Waterloo Integrated Station Development Level 10, 54 Park Street Sydney NSW 2000

Attention: Nick Owen

Email: nick.owen@mirvac.com

**RE: Waterloo Metro Quarter** 

Dear Nick,

We have surveyed for boundary control and identification purposes the whole of the land comprised in the Certificates of Titles tabled below. These titles comprise the whole of the land known as the Waterloo Metro Quarter Development.

Folio Identifier	Lot Number	Deposited Plan Number	Title Notifications
4/215751	4	DP 215751	Nil
5/215751	5	DP 215751	Nil
1/814205	1	DP 814205	Nil
1/228641	1	DP 228641	Nil
2/228641	2	DP 228641	Nil
1/1084919	1	DP 1084919	Nil
12/399757	12	DP 399757	Nil
1/27454	1	DP 27454	Nil
2/27454	2	DP 27454	Nil
1/996765	1	DP 996765	Nil
Auto Consol 7325-227	A,B,C,D and E	DP 108312	AM698336 - Acquisition
1/433969	1	DP 433969	Nil
1/738891	1	DP 738891	Limited Title Pursuant to Section 28(4) of the Real Property Act 1900
31/805384	31	DP 805384	Nil
32/805384	32	DP 805384	Nil
A/408116	Α	DP 408116	Nil
1/205942	1	DP 205942	Nil
2/205942	2	DP 205942	Nil
1/436831	1	DP 436831	Excludes the Splayed Corner in Stratum via DP 551716

All the titles are situated within Waterloo in the Local Government Area of Sydney Parish of Alexandria and County of Cumberland.



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## **DIMENSIONS**

With the exception of a church property occupying Lot 30 in DP 668991, the Waterloo Metro Quarter Development occupies an entire block with frontages Botany Road, Cope Street, Raglan Street and Wellington Street. The dimensions of the property are as shown on the attached Boundary and Control Point survey plan.

#### **IMPROVEMENTS**

The site is currently occupied by Sydney Metro and is under construction. The site is enclosed by construction fencing and hoarding. The current Nearmap view of the site is embedded into our Boundary and Control Plan for information purposes.

#### **EASEMENTS AND COVENANTS**

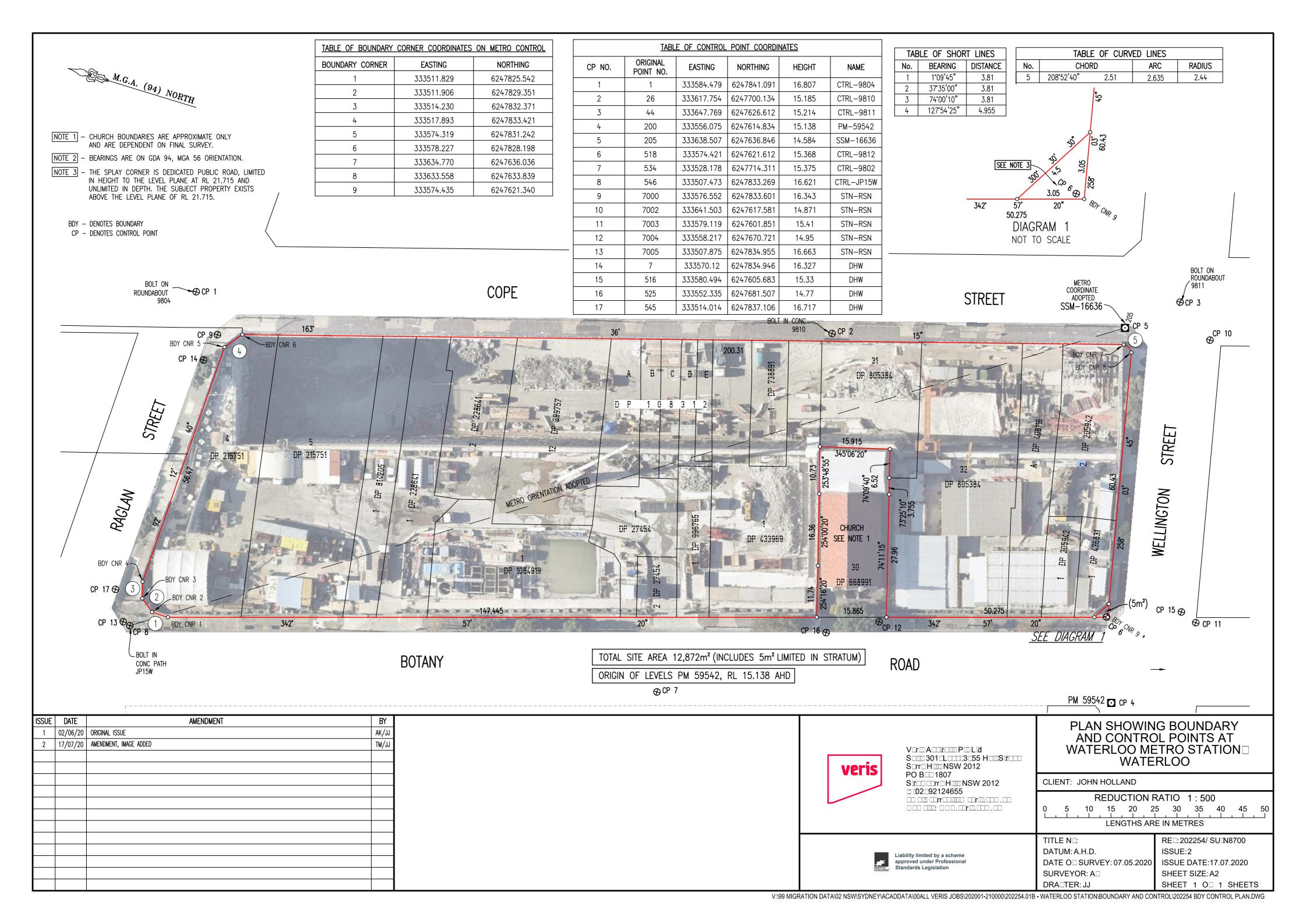
There are no easements or covenants noted on any of the titles

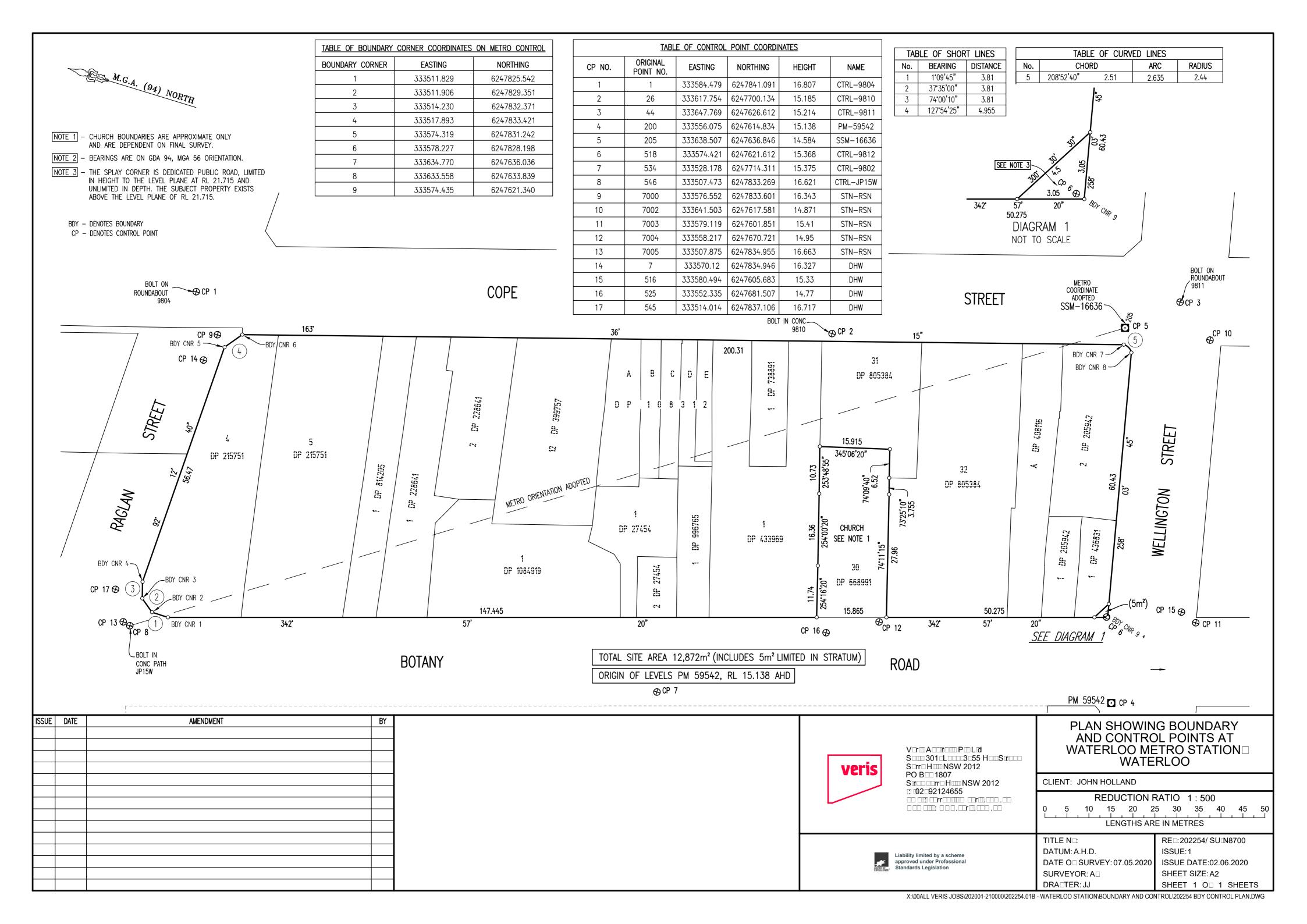
Computer Folio Search dated: 21/05/2020

Date of Survey: 07/05/2020

Registered Surveyor: Tasy Moraitis

Signed:

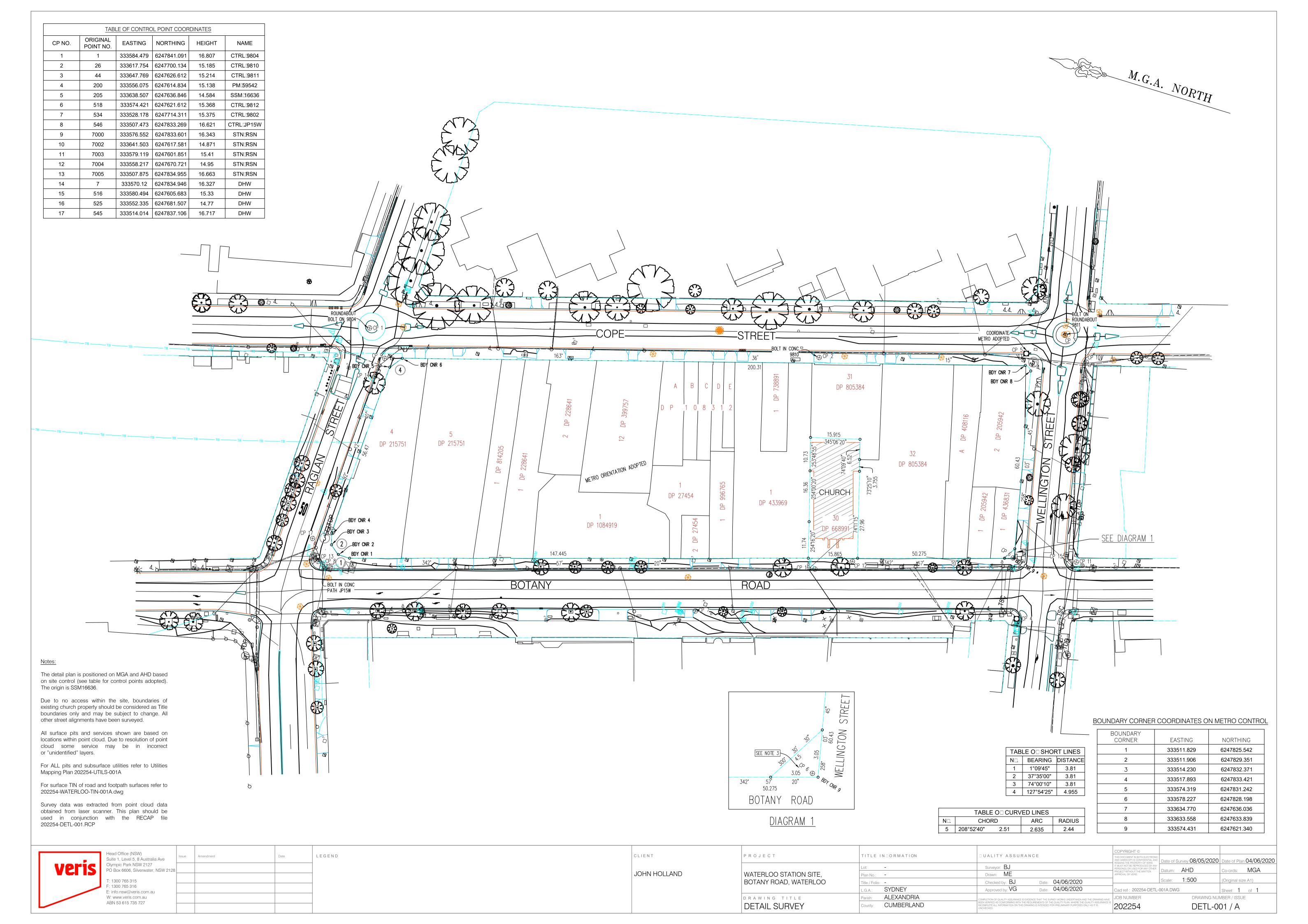








# 2. Appendix 2 - Detailed Survey







3. Appendix 3 – Sub-surface Utility Plan

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

A QUALITY LEVEL DESCRIBES THE ACCURACY OF INFORMATION THAT IS 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
- 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 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 INFORMATION COLLECTED FOR THESE ASSETS IS RECORDED TO THE INVERT LEVEL, WHERE AVAILABLE, AT THE RESPECTIVE ACCESS POINTS.

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









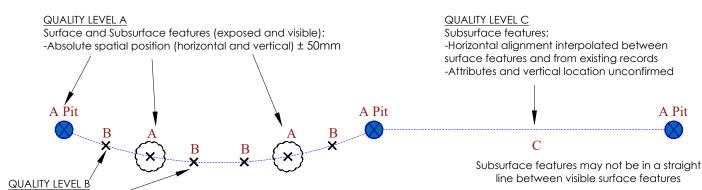






# **VARYING QUALITY LEVELS**

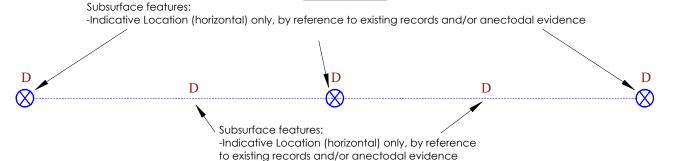
(Taken from AS 5488-2019)



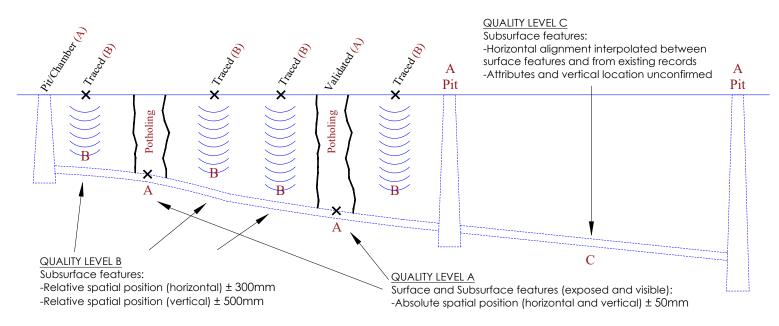
Subsurface features: -Relative spatial position (horizontal) ± 300mm

-Relative spatial position (vertical) ± 500mm

#### QUALITY LEVEL D



## **PLAN VIEW**



# LONGITUDINAL SECTION

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



ead Office (NSW) Suite 1, Level 5, 8 Australia Ave Olympic Park NSW 2127 PO Box 6606. Silverwater. NSW 2128 CLIENT

1300 765 315 1300 765 316 ABN 53 615 735 727

PROJECT TITLE  WATERLOO STATION  GENERAL NOTES AND LEGEND  DRAWING TITLE  SUB-SURFACE UTILITY PLAN  CHECKED BY: K.S./B.M./J.A.  CHECKED BY: K.S./B.M./J.A.			
GENERAL NOTES AND LEGEND  LOCATED BY: L.B. SURVEYED BY: Y.M./A.D. DRAFTED BY: J.V.	PROJECT TITLE		
SURVEYED BY: Y.M./A.D. DRAWING TITLE DRAFTED BY: J.V.	WATERLOO STATION		
DRAWING TITLE DRAFTED BY: J.V.	GENERAL NOTES AND LEGEND	LOCATED BY:	L.B.
DHAFTED BY: J.V.		SURVEYED BY:	Y.M./A.D.
SUB-SURFACE UTILITY PLAN  CHECKED BY: K.S./B.M./J.A.	DRAWING TITLE	DRAFTED BY:	J.V.
	SUB-SURFACE UTILITY PLAN	CHECKED BY:	K.S./B.M./J.A.

DIAL BEFORE YOU DIG
THIS PLAN DOES NOT REPLACE DBYD PLANS

TRAFFIC SIGNAL CONTROLLER (PSCL) POWER SERVICE PILLAR - UNDERGROUND (PEUP)

DRAINAGE JUNCTION MANHOLE (PDJM)

SEWER MANHOLE COVER (PSMH)

DENOTES INVESTIGATION AREA

GULLY PIT POINT (PGUL) DRAINAGE PIT (DP)

POTHOLE INDICATOR

UNABLE TO LOCATE

UNABLE TO TRACE

LINABLE TO OPEN

END OF TRACE

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

EOT

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DRAINAGE PIPE - (Ø750) ----- Ø750 --DRAINAGE PIPE - (Ø900) – Ø900 -DRAINAGE PIPE - (Ø1200) - Ø1200 -DRAINAGE PIPE - UNSPECIFIED DIAMETER (Ø?) — Qš — — DZ — DRAINAGE PIPE - DIGITISED (DZ COMMUNICATION LINE (C) — c— TELEPHONE LINE (TN) — т — TELEPHONE HOUSE CONNECTION (TY) \_\_\_\_ TH \_\_\_\_ — тz — TELEPHONE LINE - DIGITISED (TZ) - OU -OPTICAL FIBRE - UNDERGROUND (OU) OPTICAL FIBRE - DIGITISED (OZ) — oz — WATER HYDRANT (PWHY) WATER STOP VALVE (PWSV) WATER FIRE HYDRANT (PWFB) WATER METER (PWMR) METER (PGMR) PIPELINE MARKER (PGPM) GAS MANHOLE COVER (PGHL) TELSTRA SINGLE CONC. PIT (PTSP a TELSTRA TWIN CONC. PIT (PTTP) TELSTRA DISTRIBUTION PILLAR OPTICAL FIBRE PIT (POFP) ELECTRIC CABLE MANHOLE (PEMH) POLE - LIGHT (PLPL) POLE - POWER & LIGHT (PPLP) ELECTRIC CABLE JUNCTION BOX (PEJB)

**VERIS LEGEND** 

— н<mark>д —</mark>

— FU —

— ЕН —

—— EZ ——

— Ø300 -

– Ø450 -

– Ø525 -

— Ø600 —

---- Ø375 -

GAS MAIN - QENOS HIGH PRESSURE PIPELINE (HG)

GAS MAIN - QENOS LOW PRESSURE (I G)

FLECTRIC LINE - MINOR TRANSMISSION (F) ELECTRIC LINE - UNDERGROUND (EU)

ELECTRIC HOUSE CONNECTION (EY)

ELECTRIC LINE - DIGITISED (EZ)

SEWER HOUSE CONNECTION (SY)

SEWER MAIN (SM

DRAINAGE PIPE - (Ø225)

DRAINAGE PIPE - (Ø300)

DRAINAGE PIPE - (Ø375)

DRAINAGE PIPE - (Ø450)

DRAINAGE PIPE - (Ø525)

DRAINAGE PIPE - (Ø600)



ISSUE	DATE	AMMENDMENT	BY	DISCLAIMER:
Α	03/06/20	ORIGINAL UTILITIES PLAN	J.V.	SUBSURFACE FEATL
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PROJECT TITLE
WATERLOO STATION
KEY PLAN
D B A W I N C T I T I E

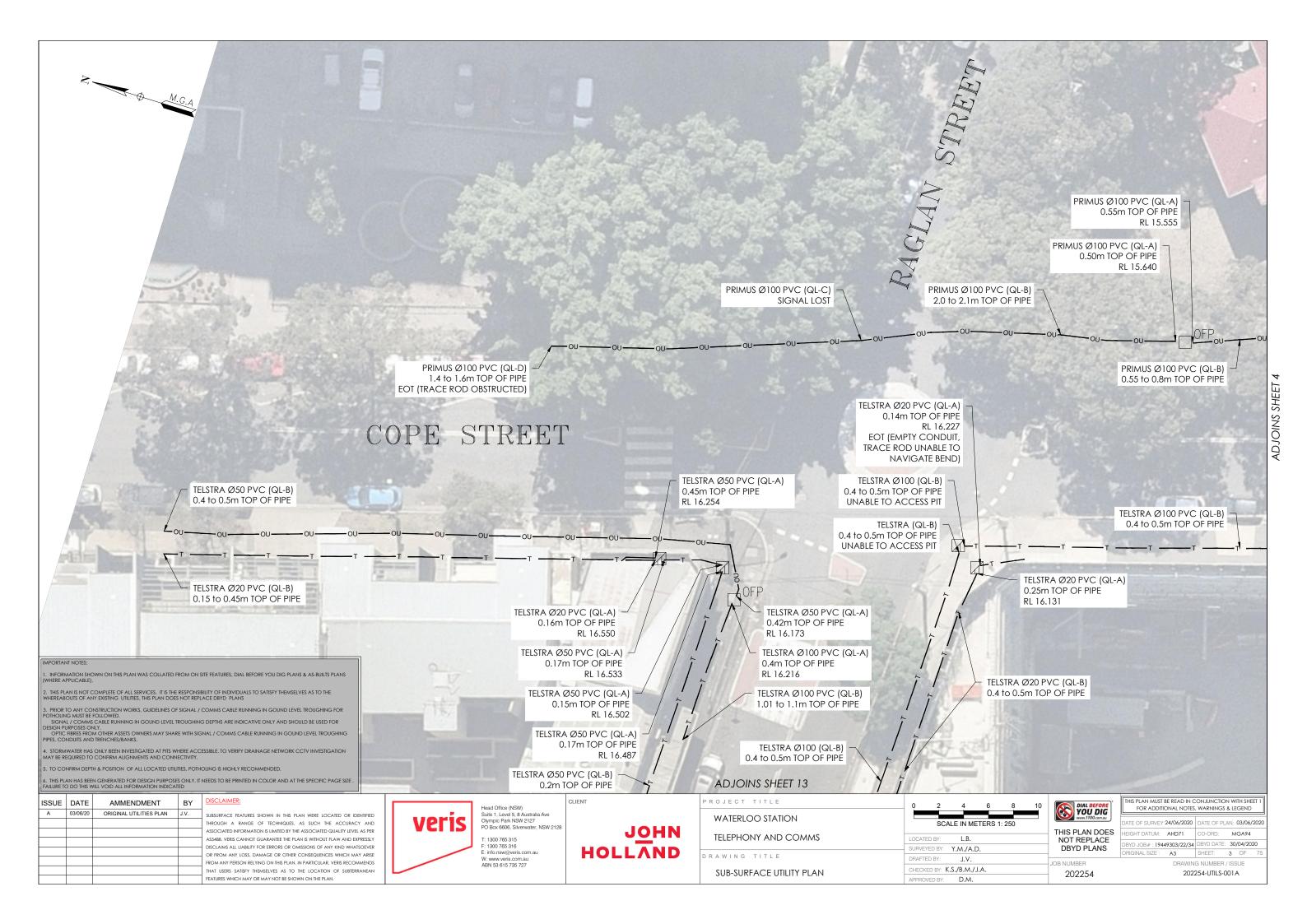
SUB-SURFACE UTILITY PLAN

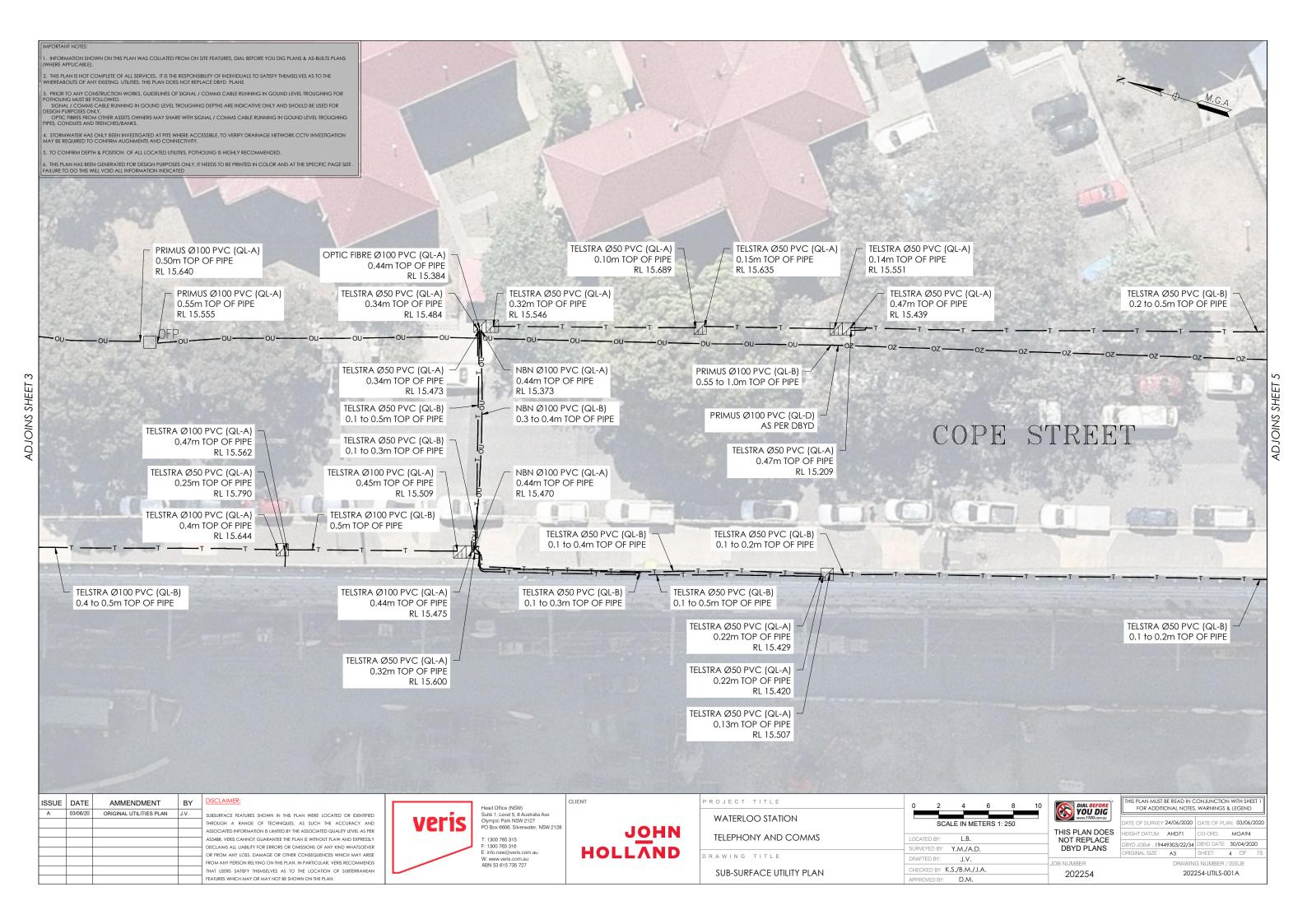
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SURVEYED BY: Y.M./A.D.	DE
DRAFTED BY: J.V.	JOB NU
CHECKED BY: K.S./B.M./J.A.	2
APPROVED BY: D.M.	

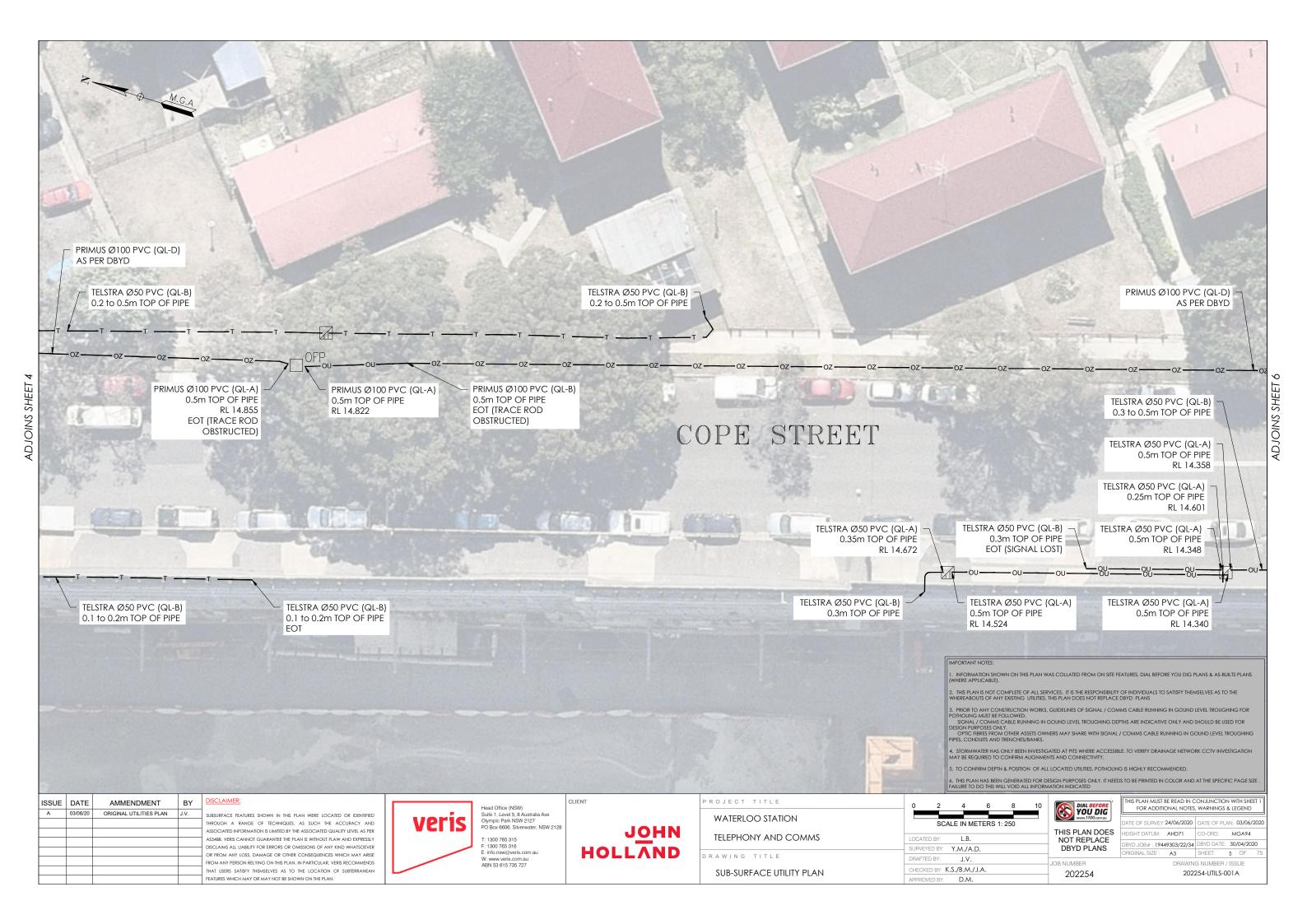
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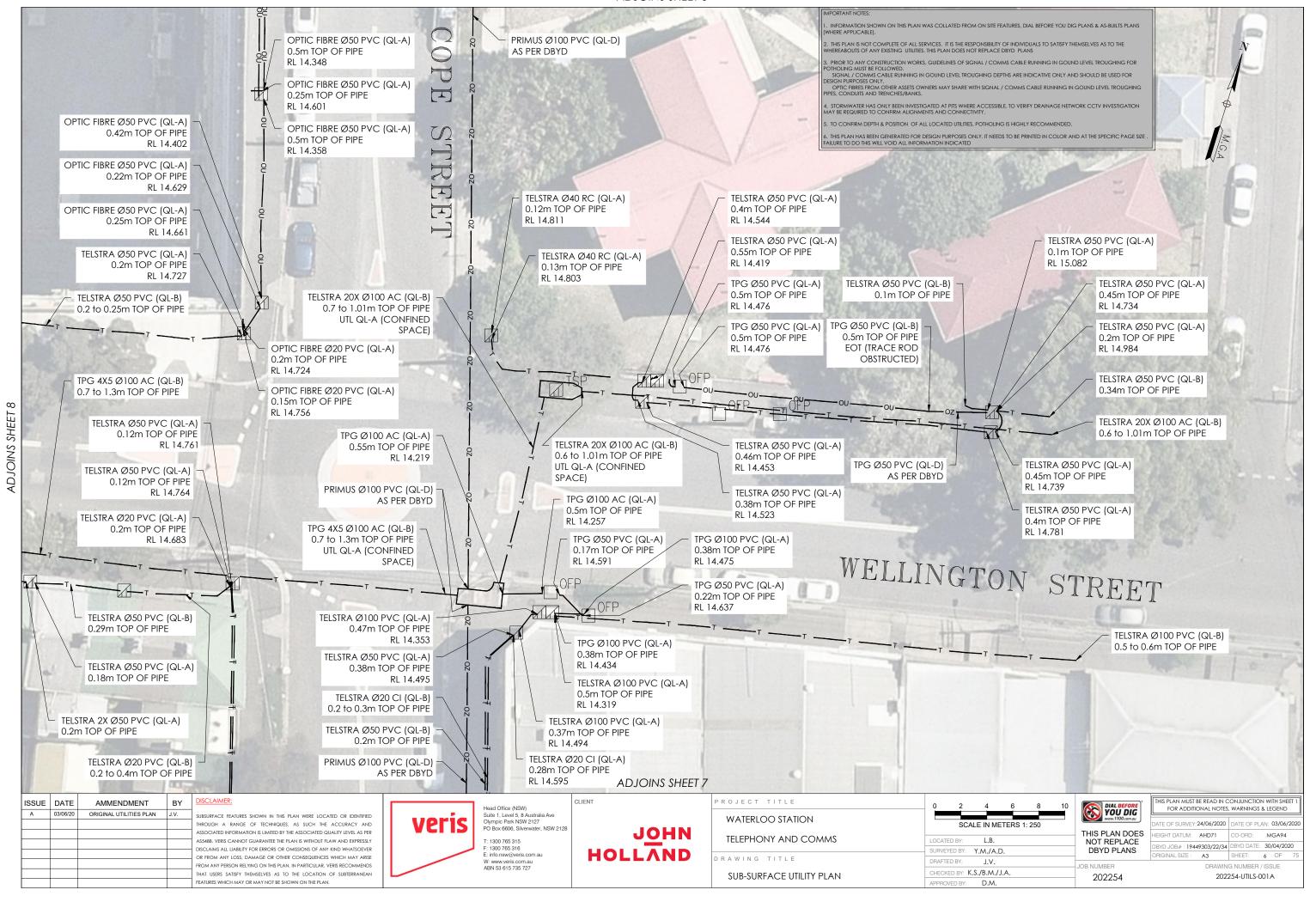
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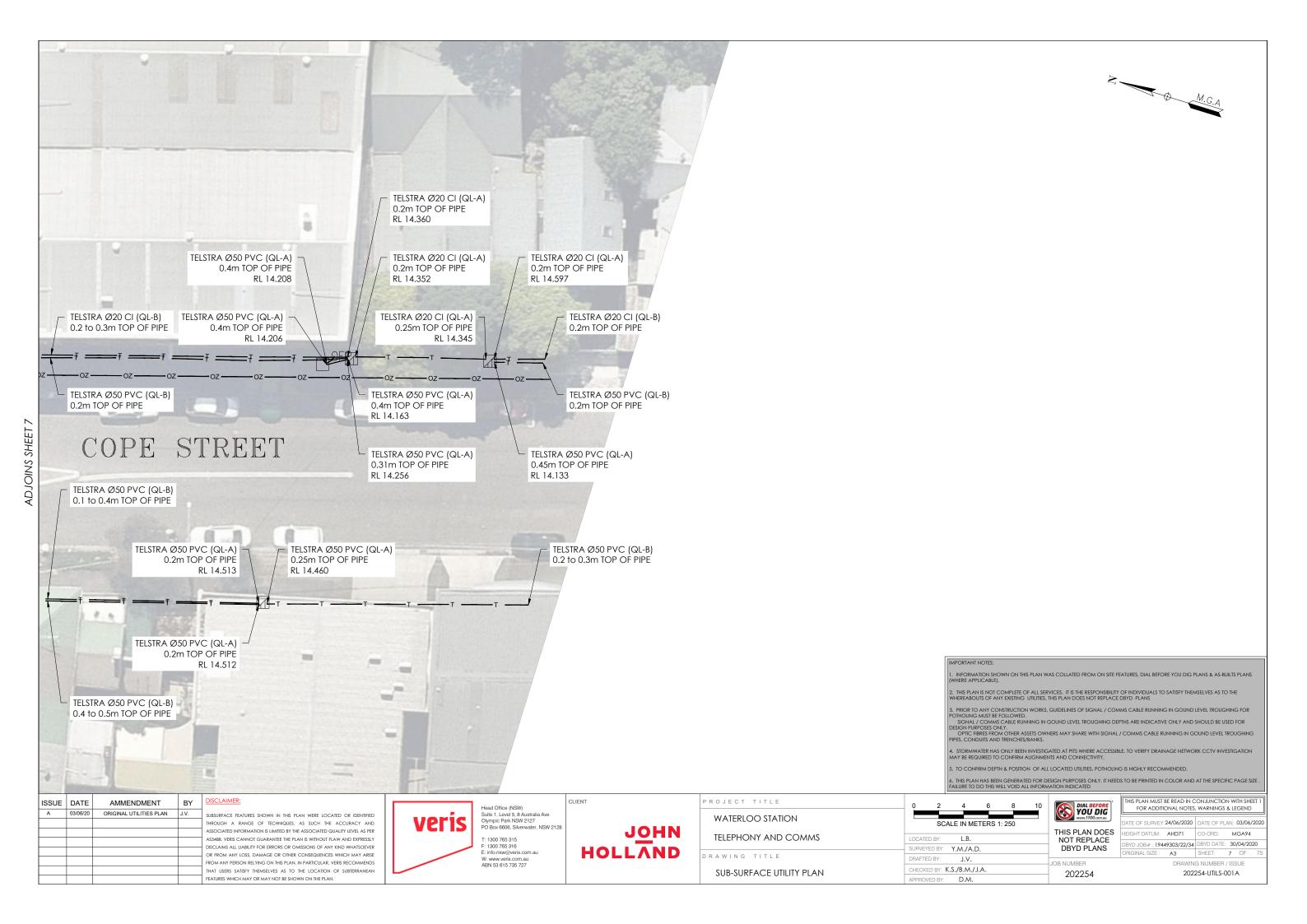
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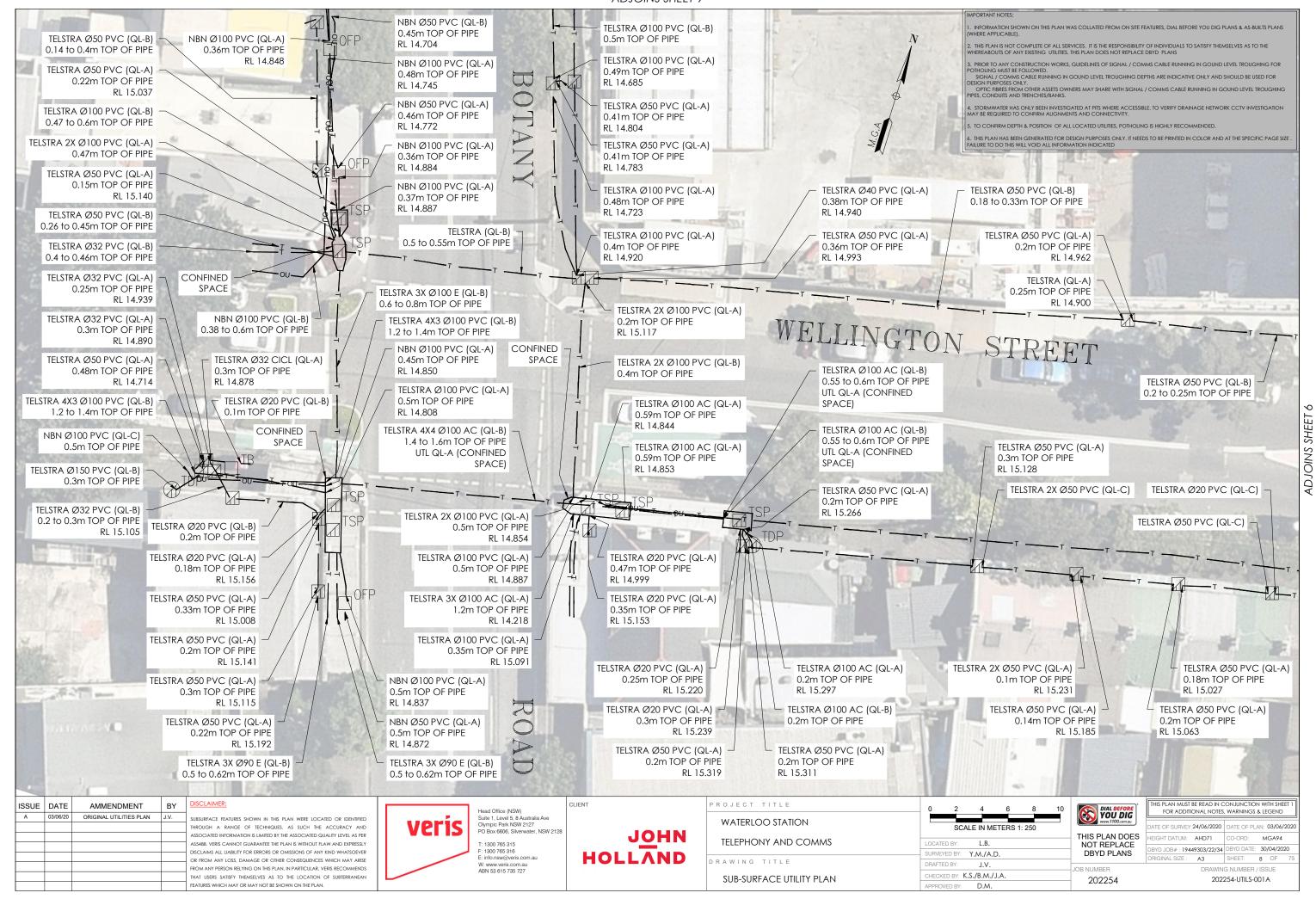


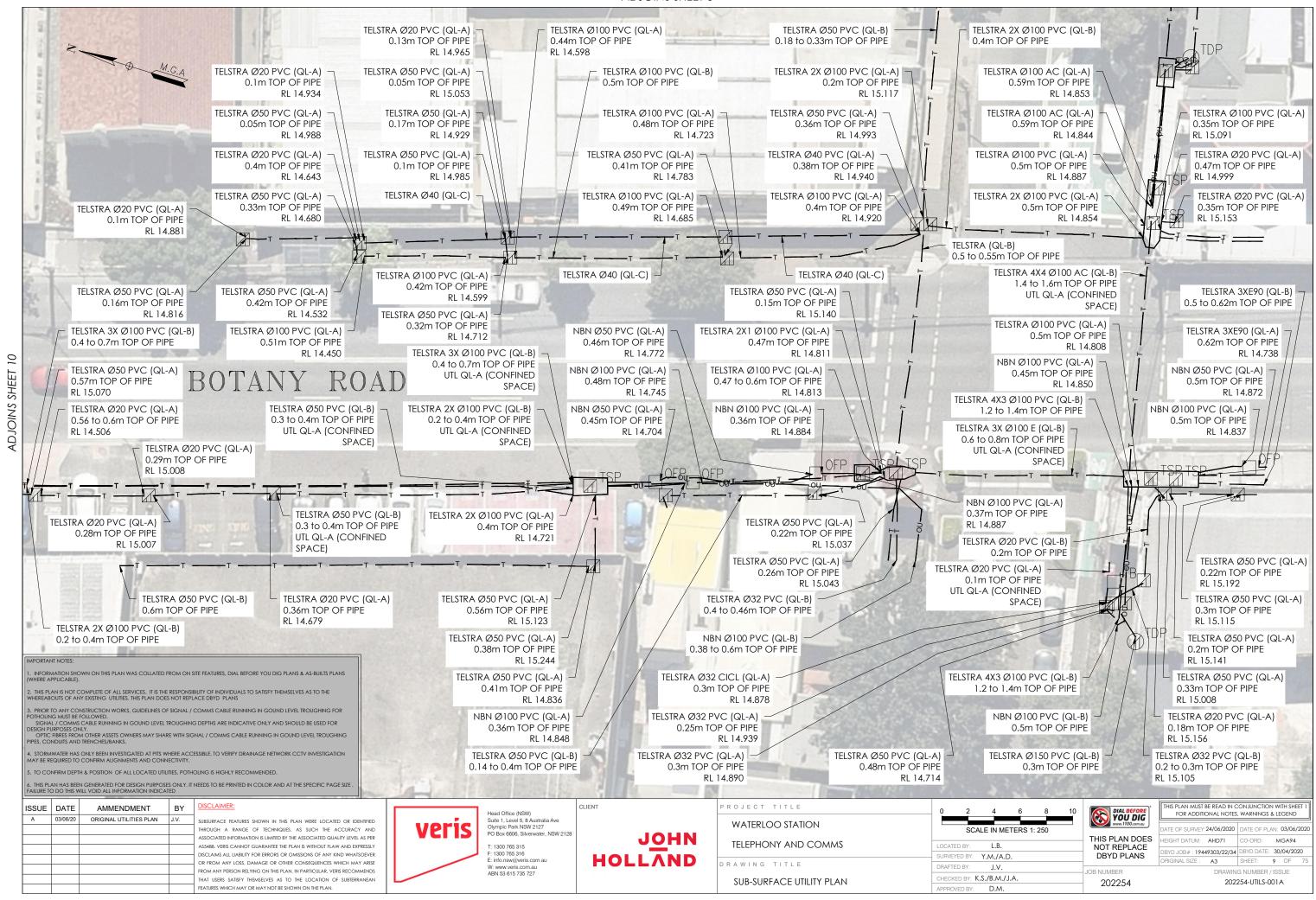


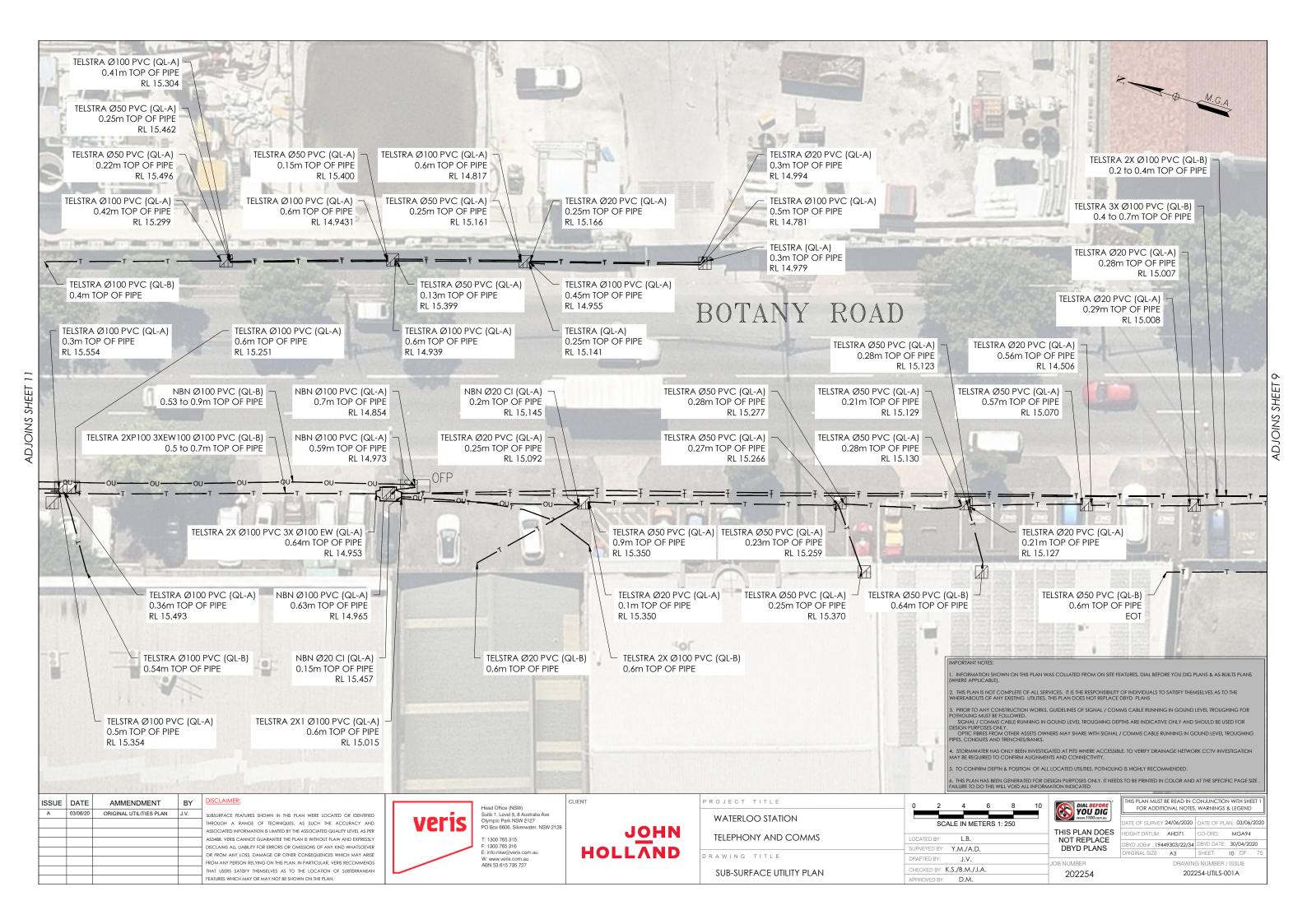


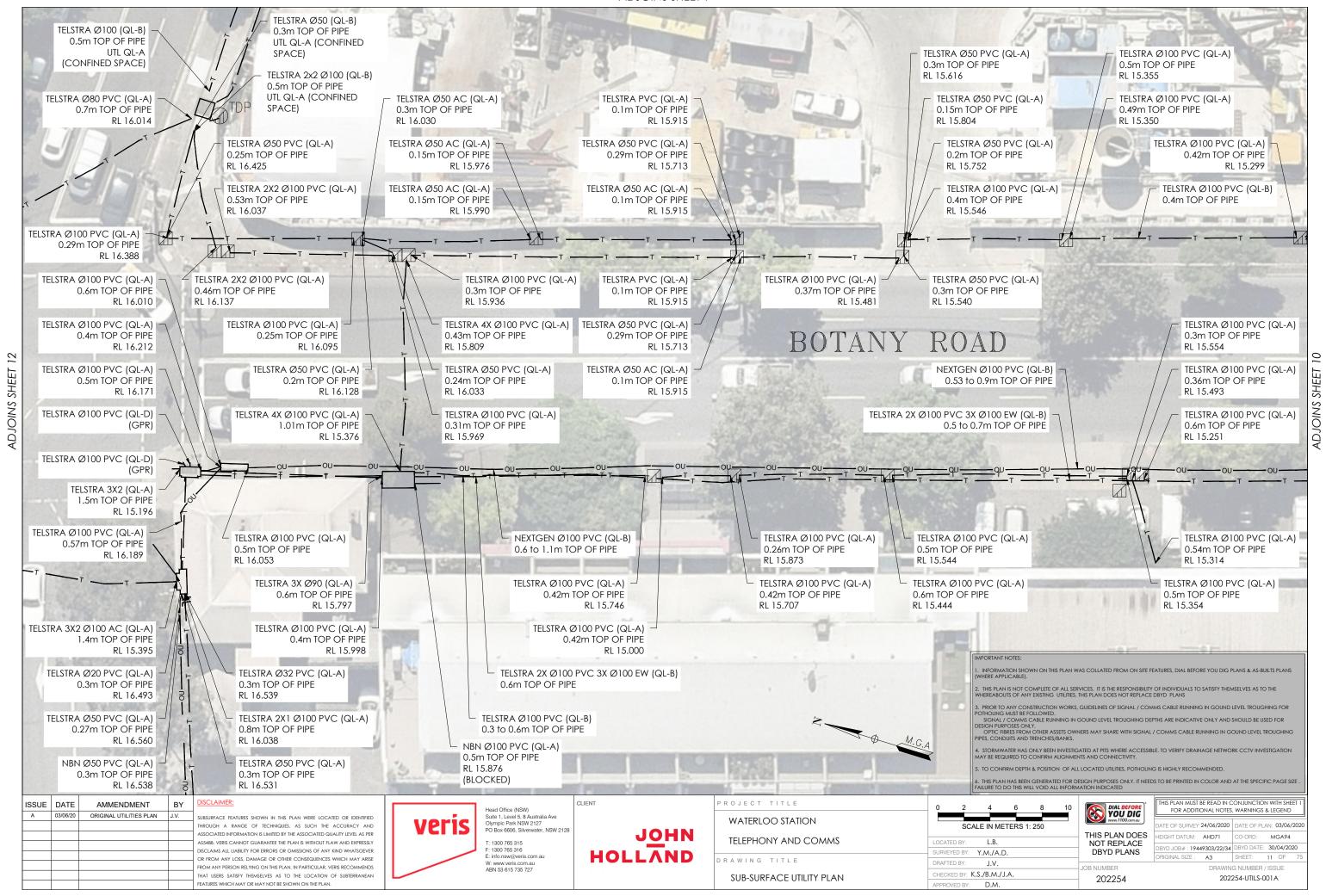


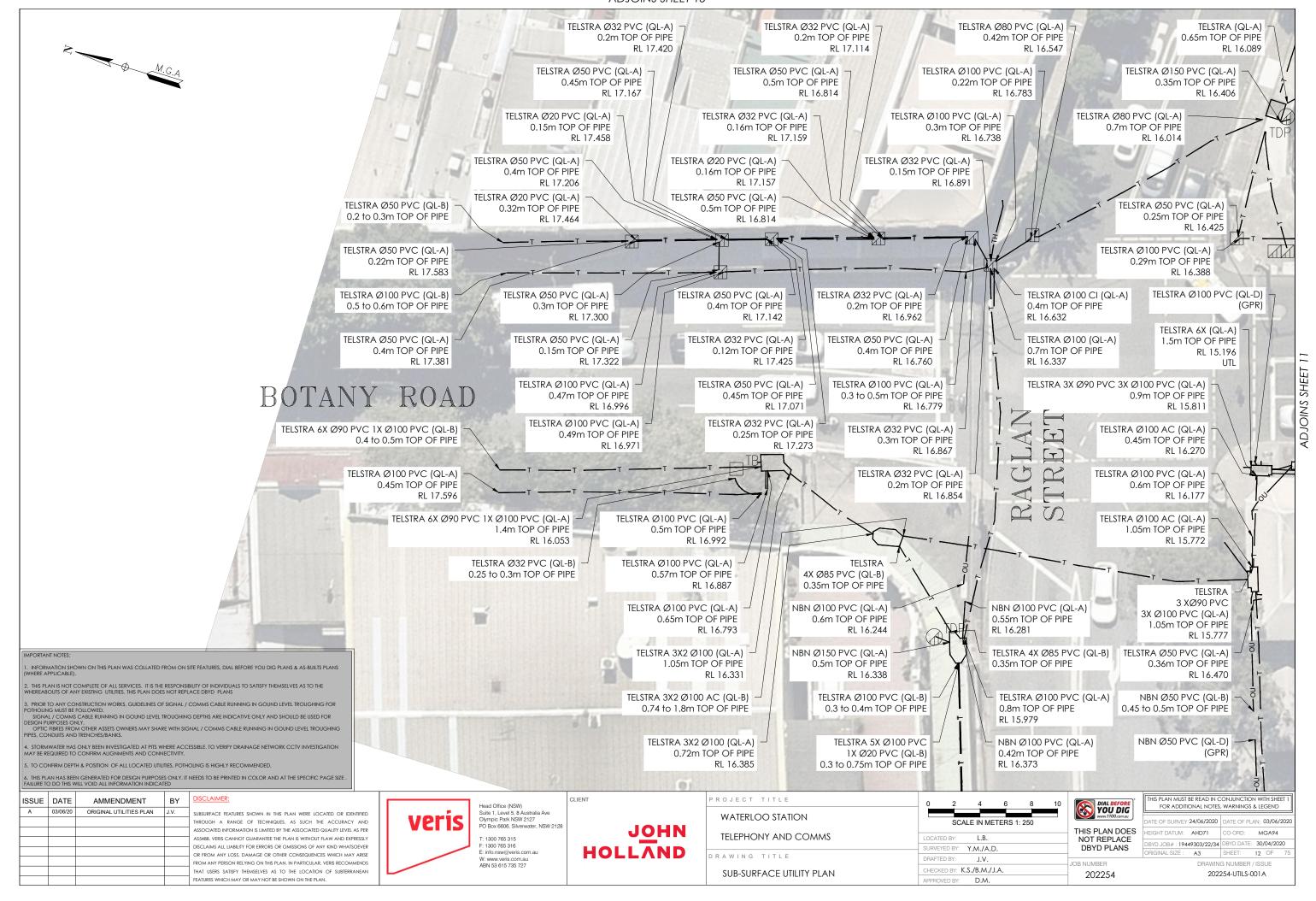


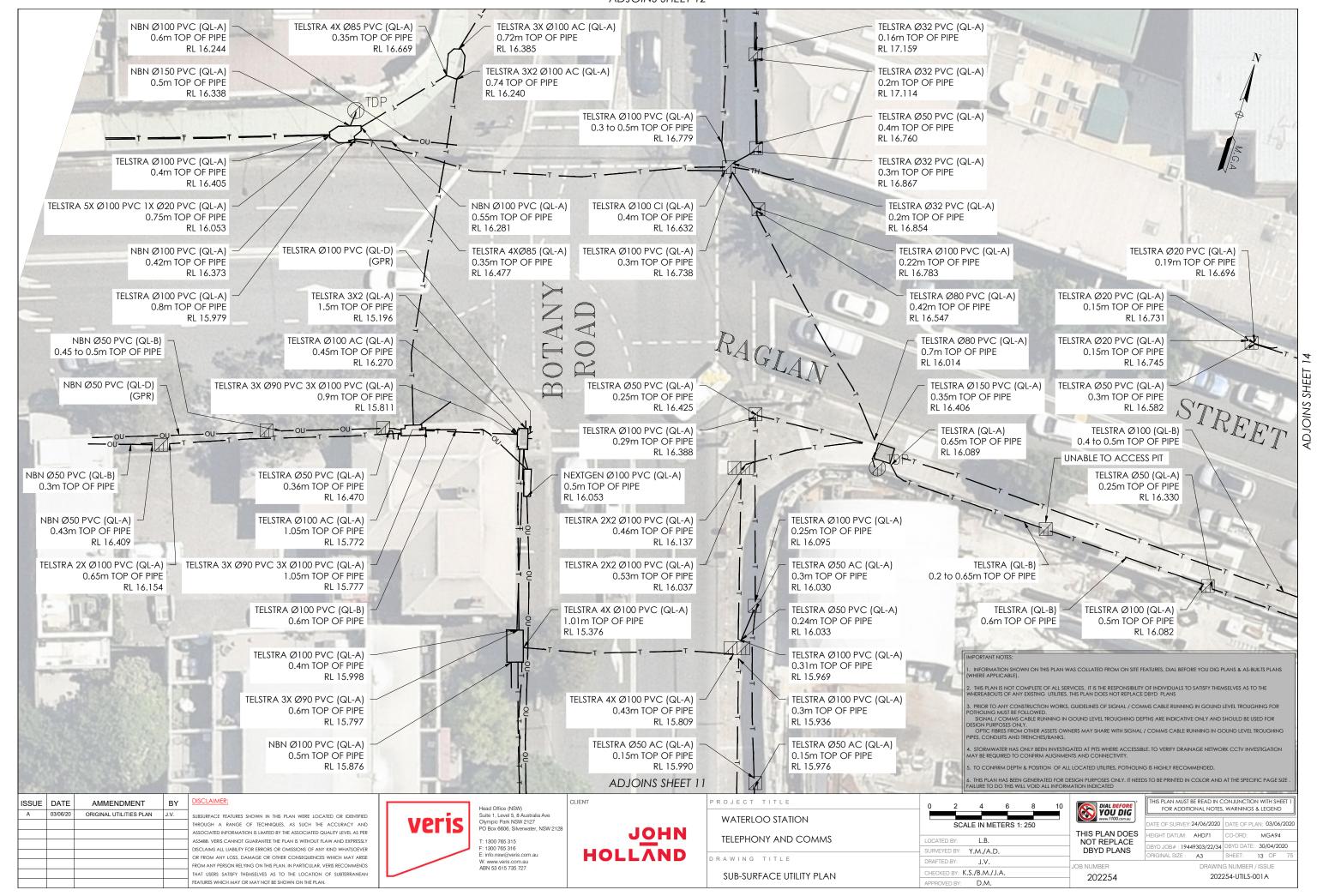


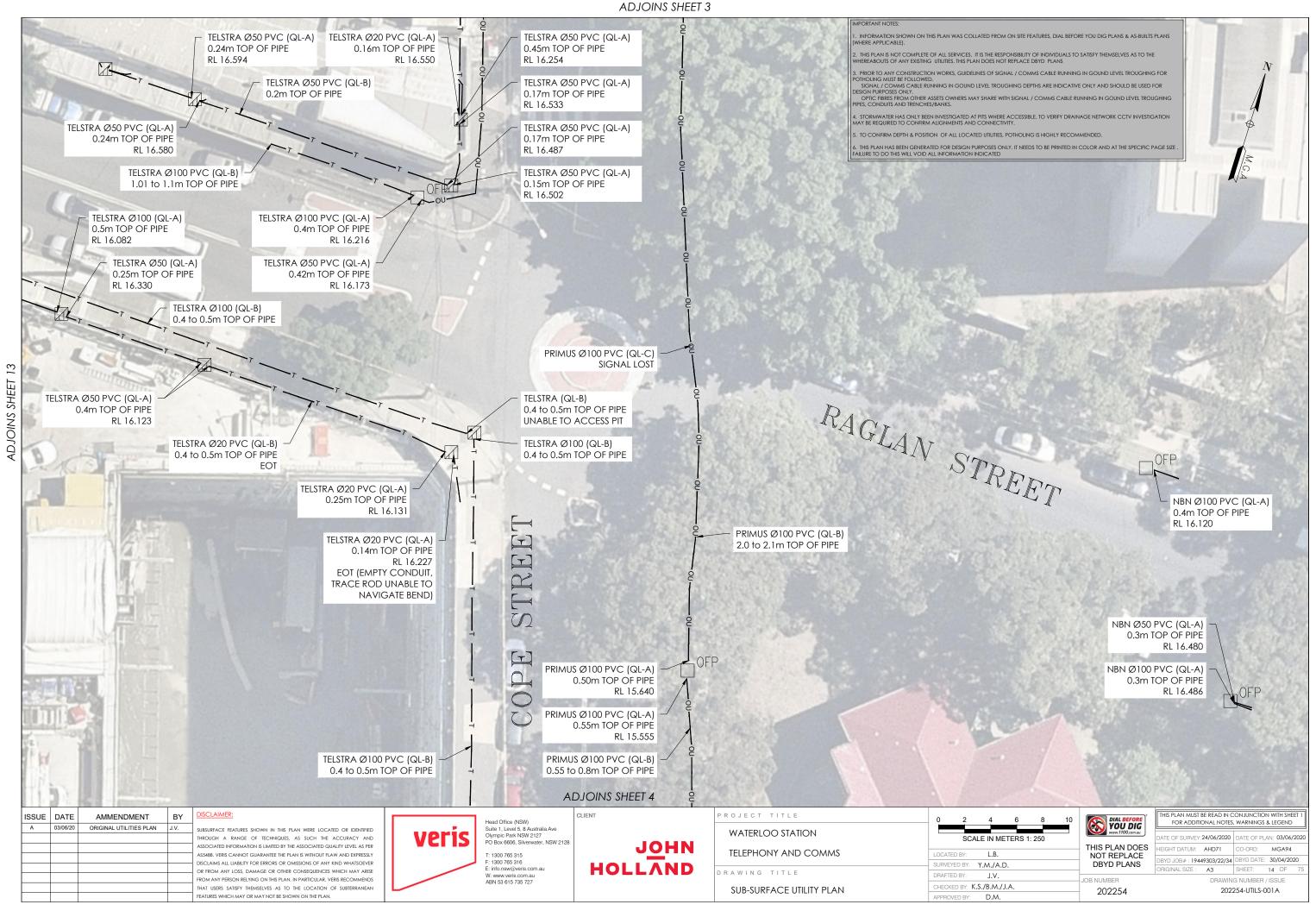


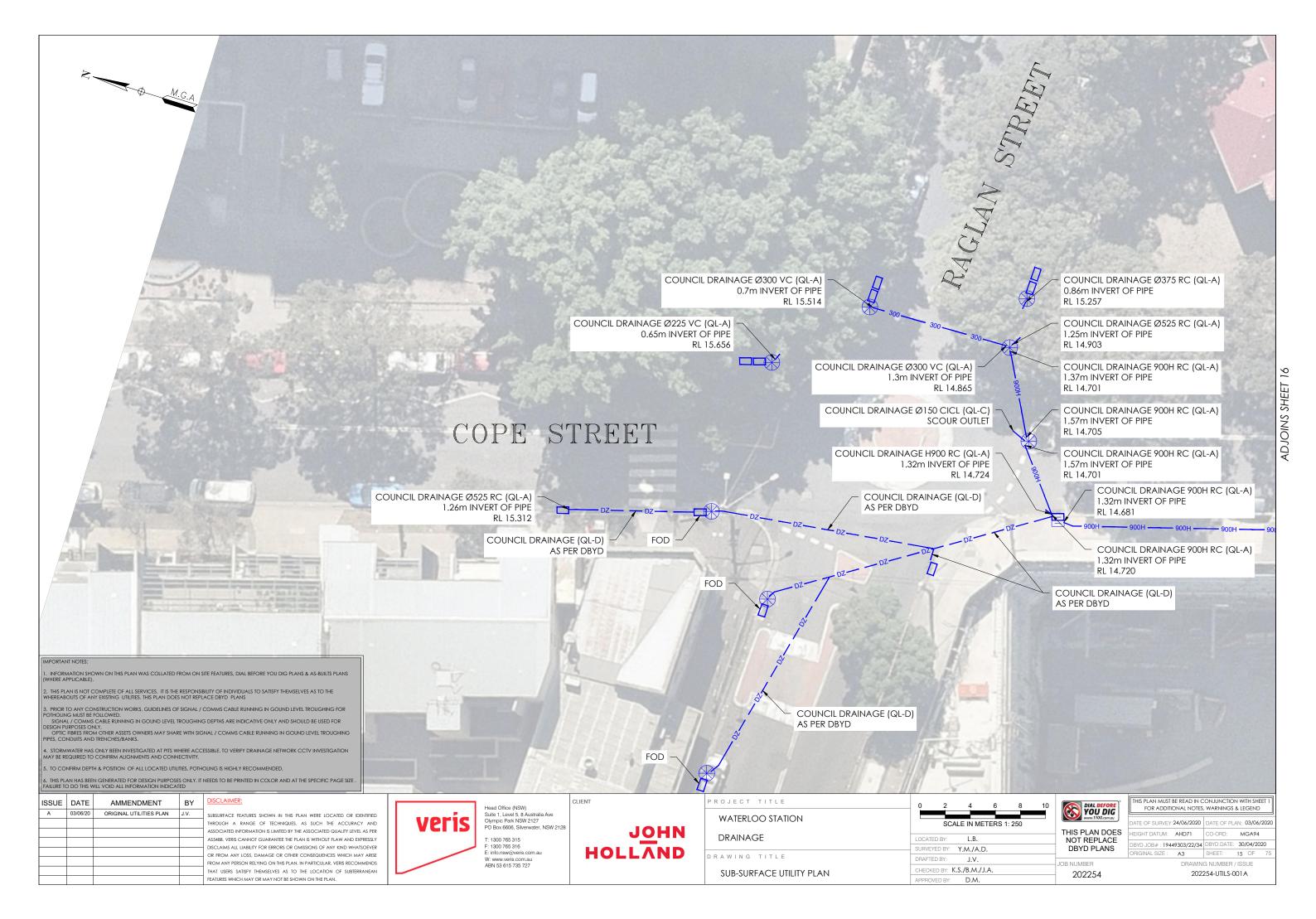


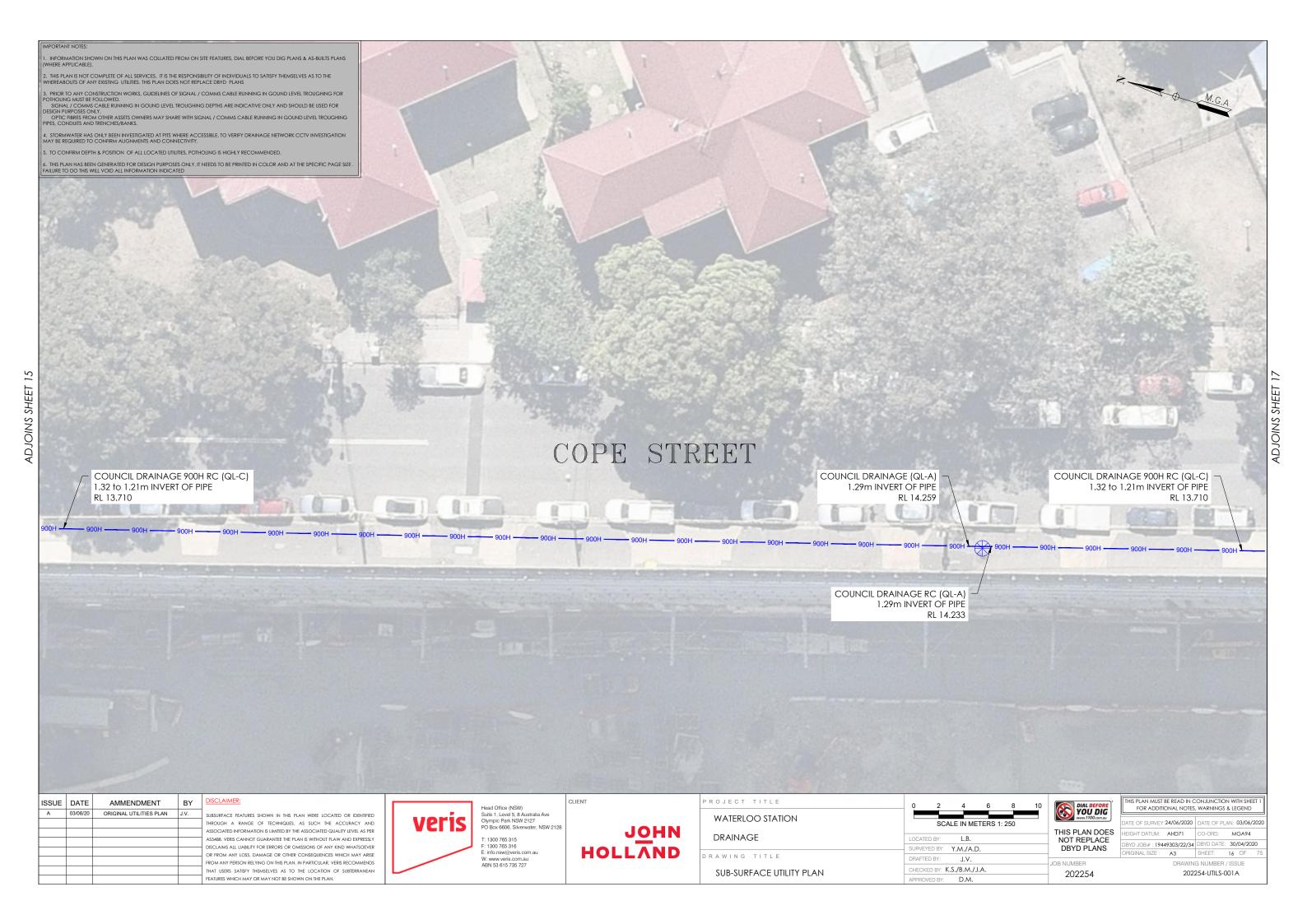


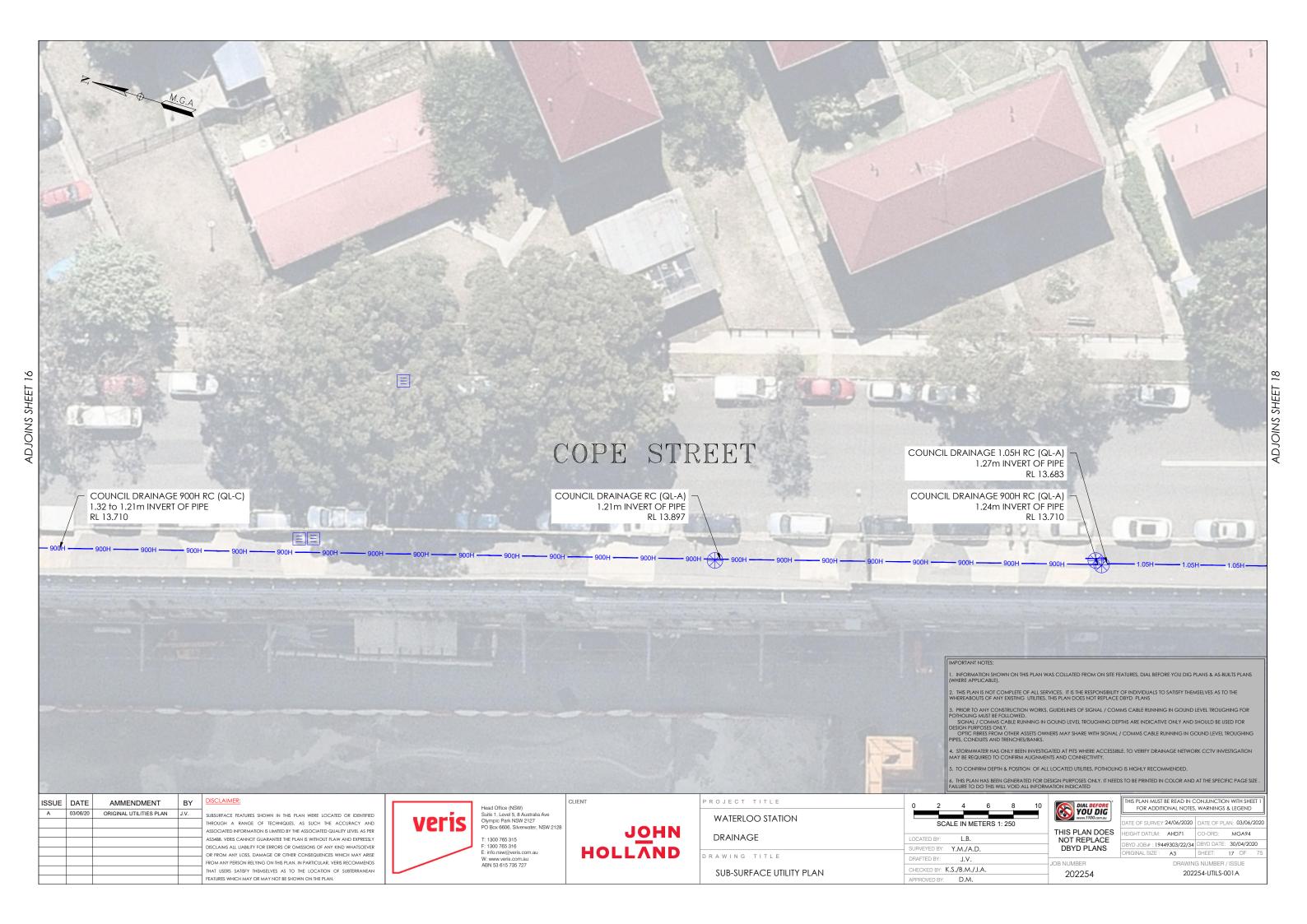


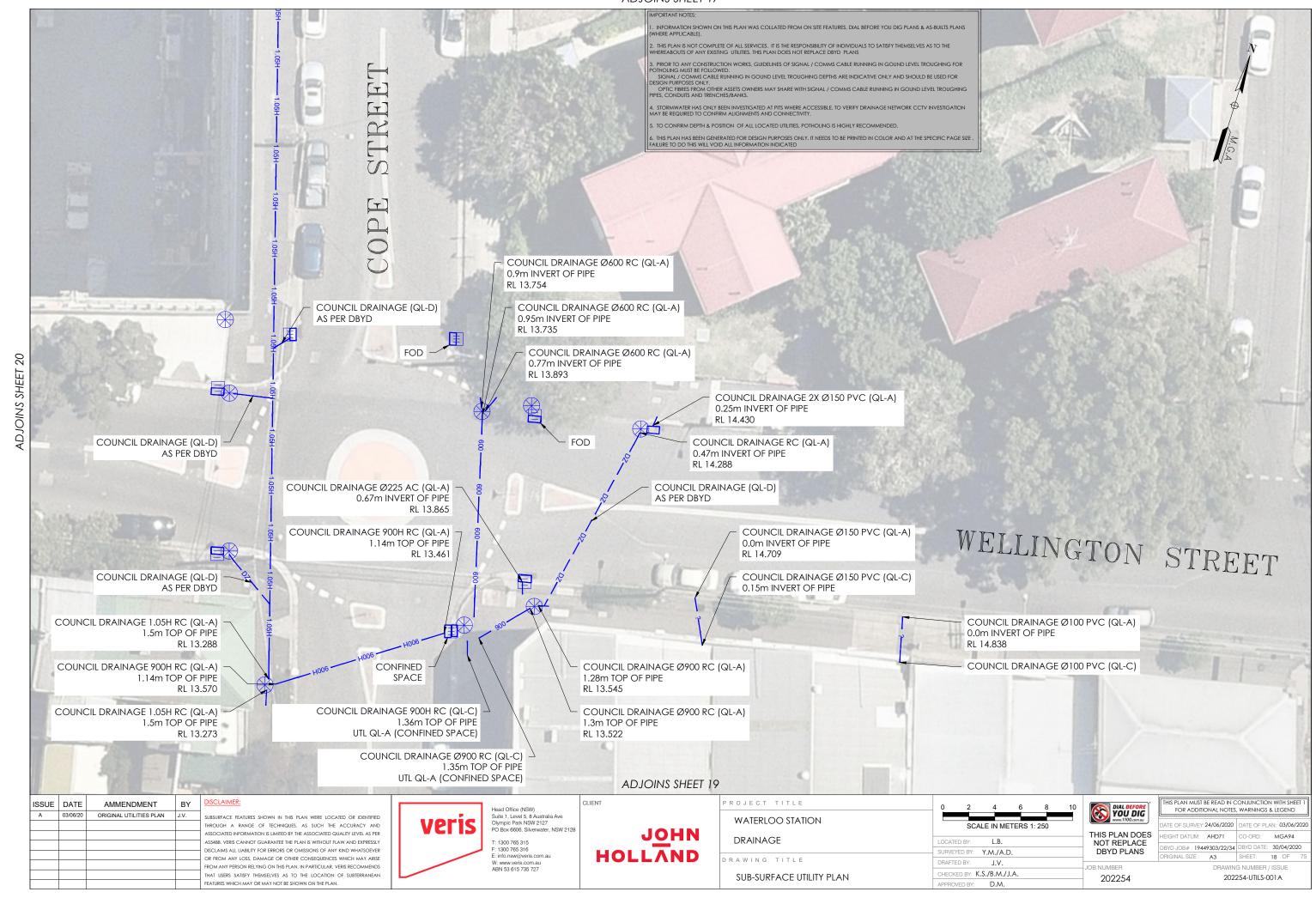














1. INFORMATION SHOWN ON THIS PLAN WAS COLLATED FROM ON SITE FEATURES, DIAL BEFORE YOU DIG PLANS & AS-BUILTS PLANS (WHERE APPLICABLE).

2. THIS PLAN IS NOT COMPLETE OF ALL SERVICES, IT IS THE RESPONSIBILITY OF INDIVIDUALS TO SATISFY THEMSELVES AS TO THE WHEREABOUTS OF ANY EXISTING UTILITIES. THIS PLAN DOES NOT REPLACE DBYD PLANS

3. PRIOR TO ANY CONSTRUCTION WORKS, GUIDELINES OF SIGNAL / COMMS CABLE RUNNING IN GOUND LEVEL TROUGHING FOR POTHOLING MUST BE FOLLOWED.

SIGNAL / COMMS CABLE RINNING IN GOUND LEVEL TROUGHING DEPTHS ARE INDICATIVE ONLY AND SHOULD BE USED FOR DESIGN PURPOSES ONLY.

OPTIC THREST FROM OTHER ASSETS OWNERS MAY SHARE WITH SIGNAL / COMMS CABLE RUNNING IN GOUND LEVEL TROUGHING PIPES, CONDUITS AND TRENCHES/BANKS.

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	ВТ	
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JBSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED HROUGH A RANGE OF TECHNIQUES. AS SUCH THE ACCURACY AND SSOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER S5488, VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY SCLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER R FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.



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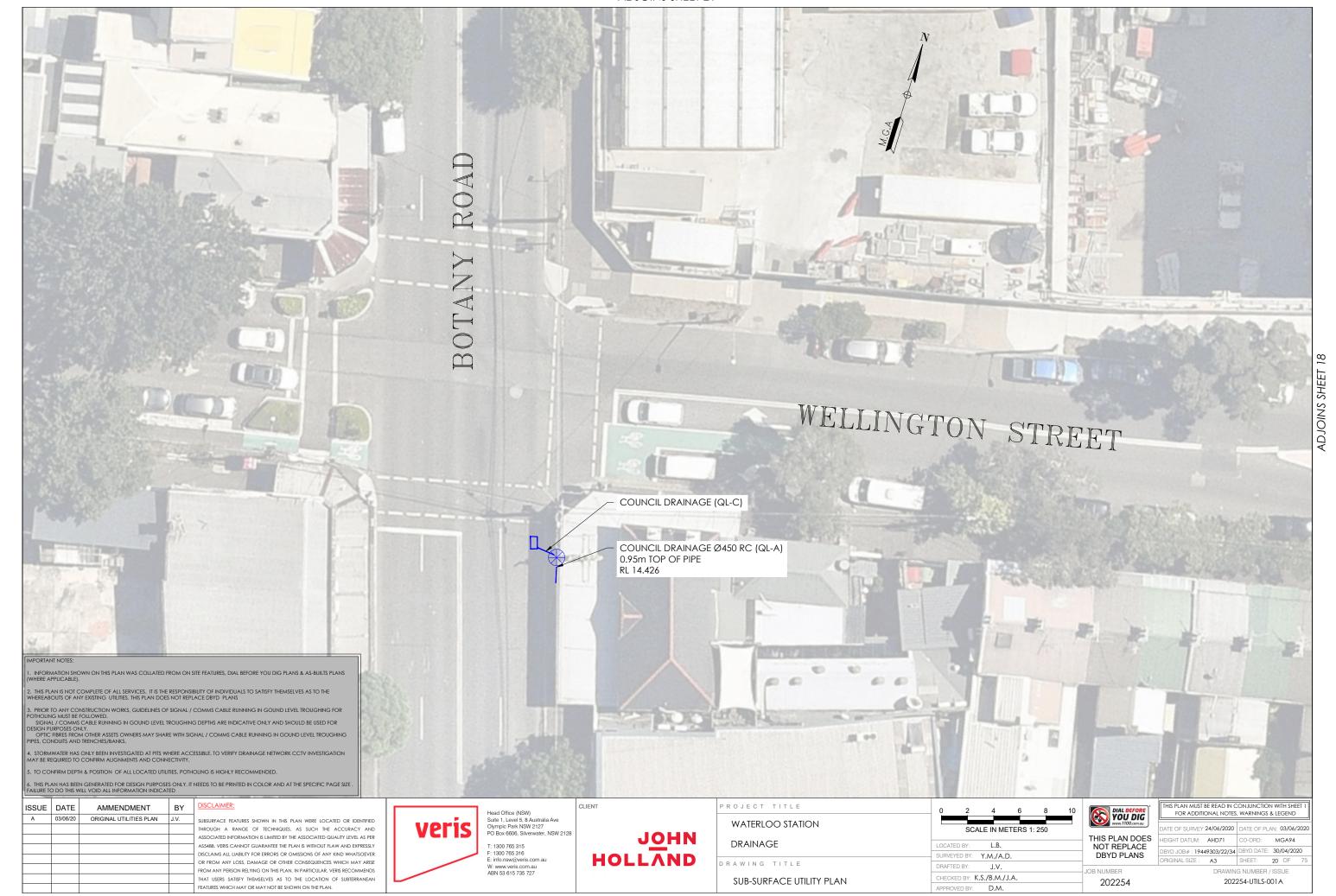
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WATERLOO STATION	SCALE IN METERS 1: 250
DRAINAGE	LOCATED BY: L.B. THIS PLAN DO NOT REPLA
	SURVEYED BY: Y.M./A.D. DBYD PLAN
RAWING TITLE	DRAFTED BY: J.V. JOB NUMBER
SUB-SURFACE UTILITY PLAN	CHECKED BY: K.S./B.M./J.A. 202254
30B 30KI / CE OTIETT TE/ (T	APPROVED BY: D.M.

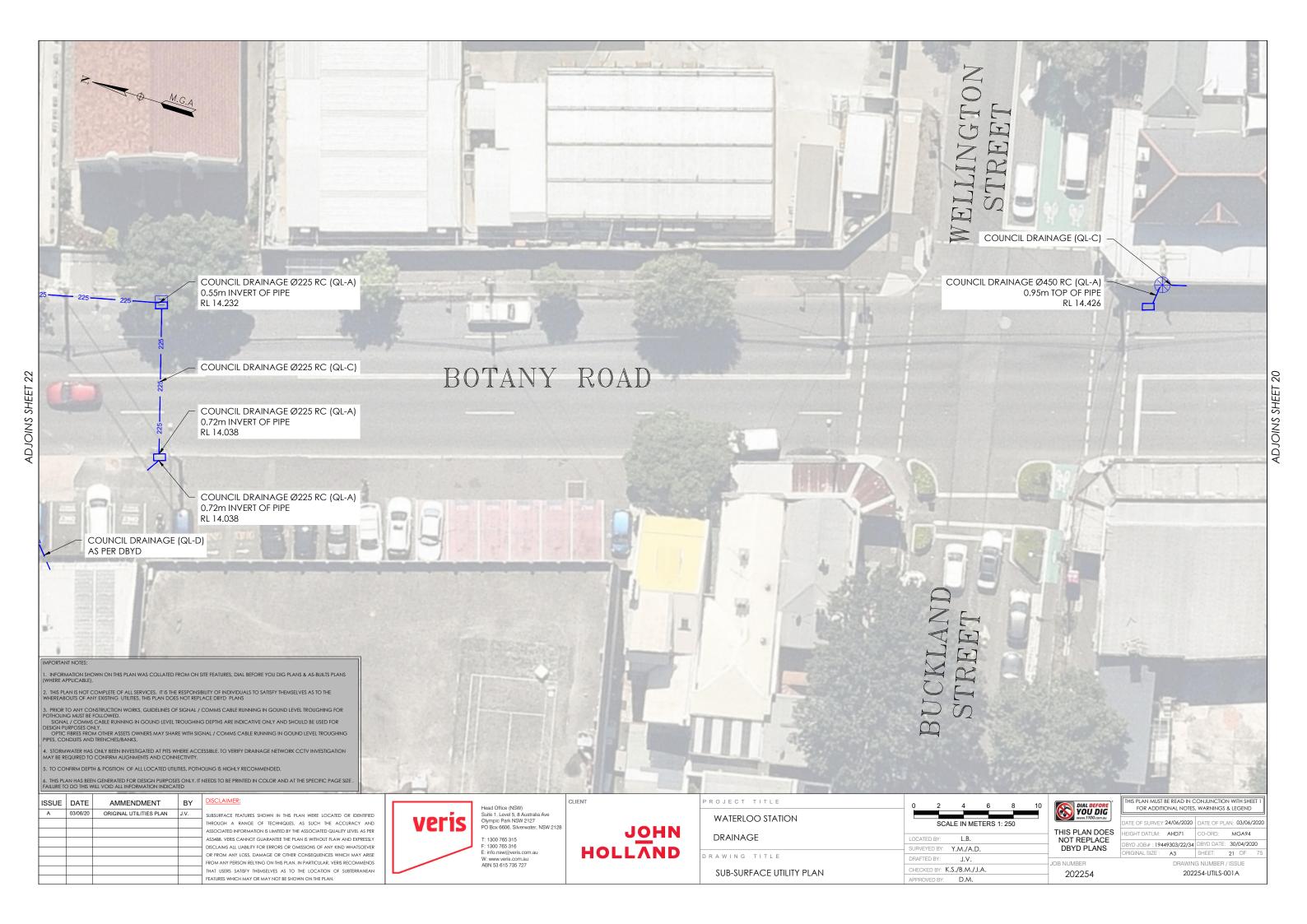
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	THIS PLAN DOES NOT REPLACE DBYD PLANS

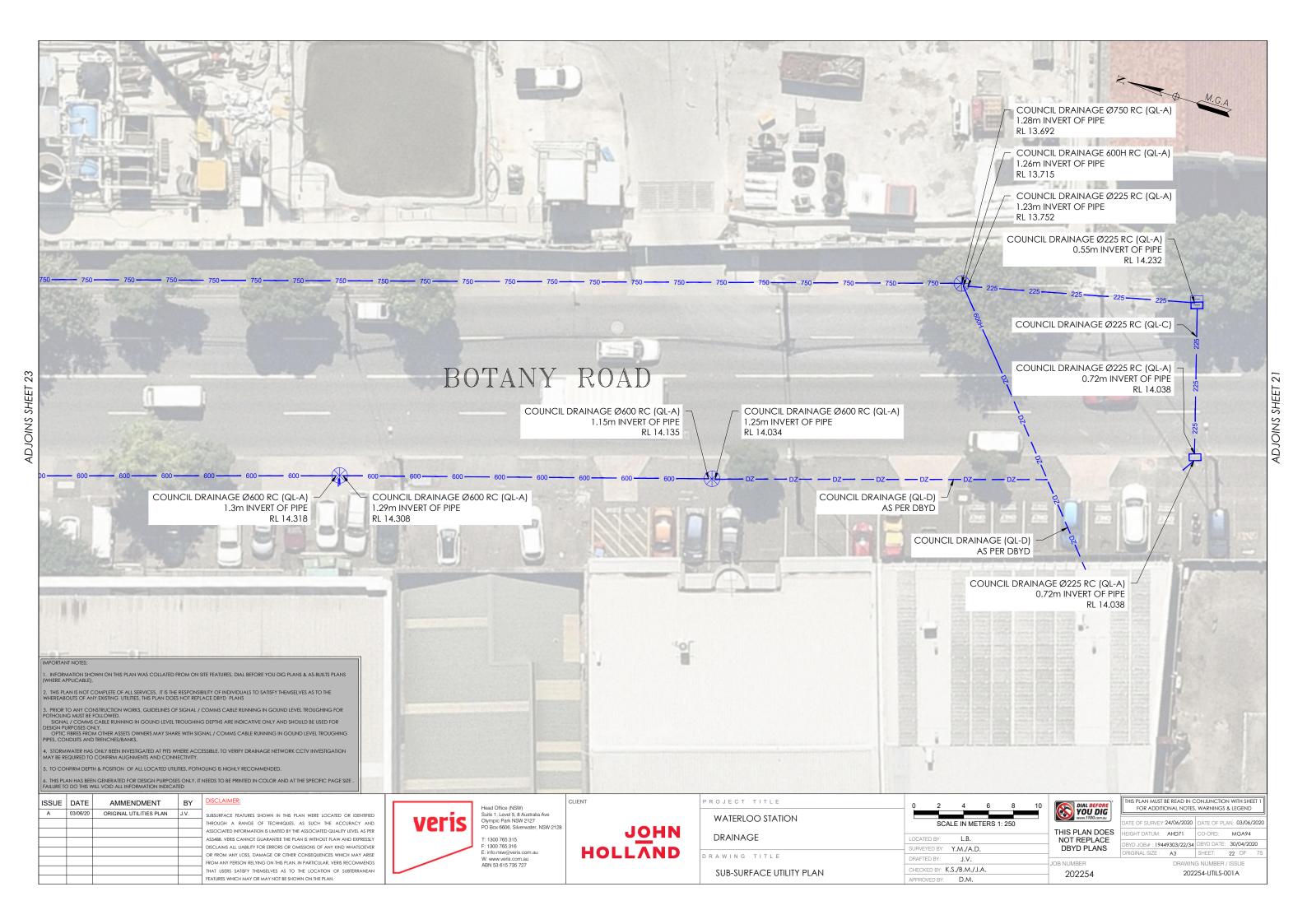
YOU DIG	FOR ADDITIONAL NOTES, WARNINGS & LEGENE		
rvrw.1100.com.au	DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06	
REDI ACE	HEIGHT DATUM: AHD71	CO-ORD: MGA94	
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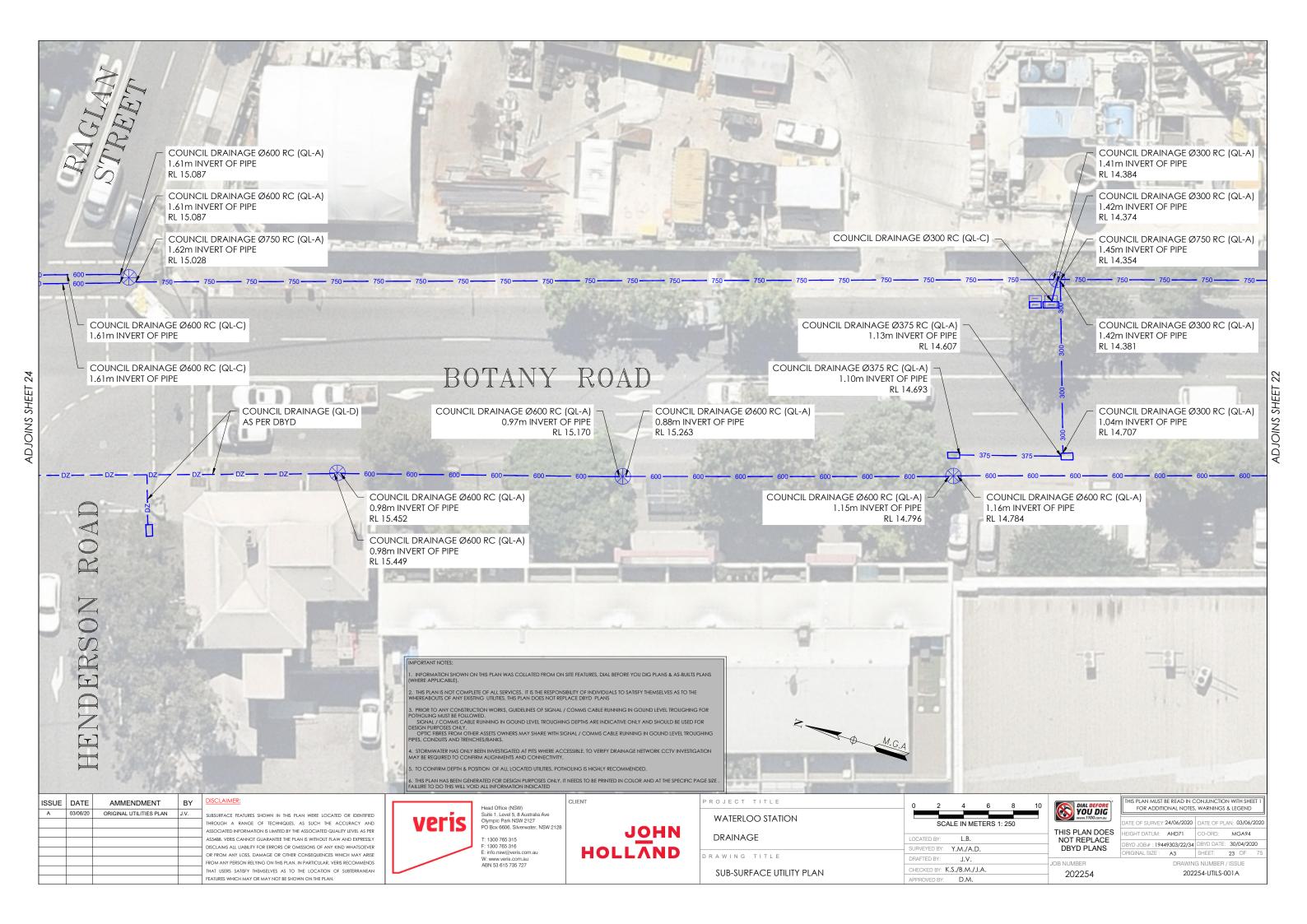
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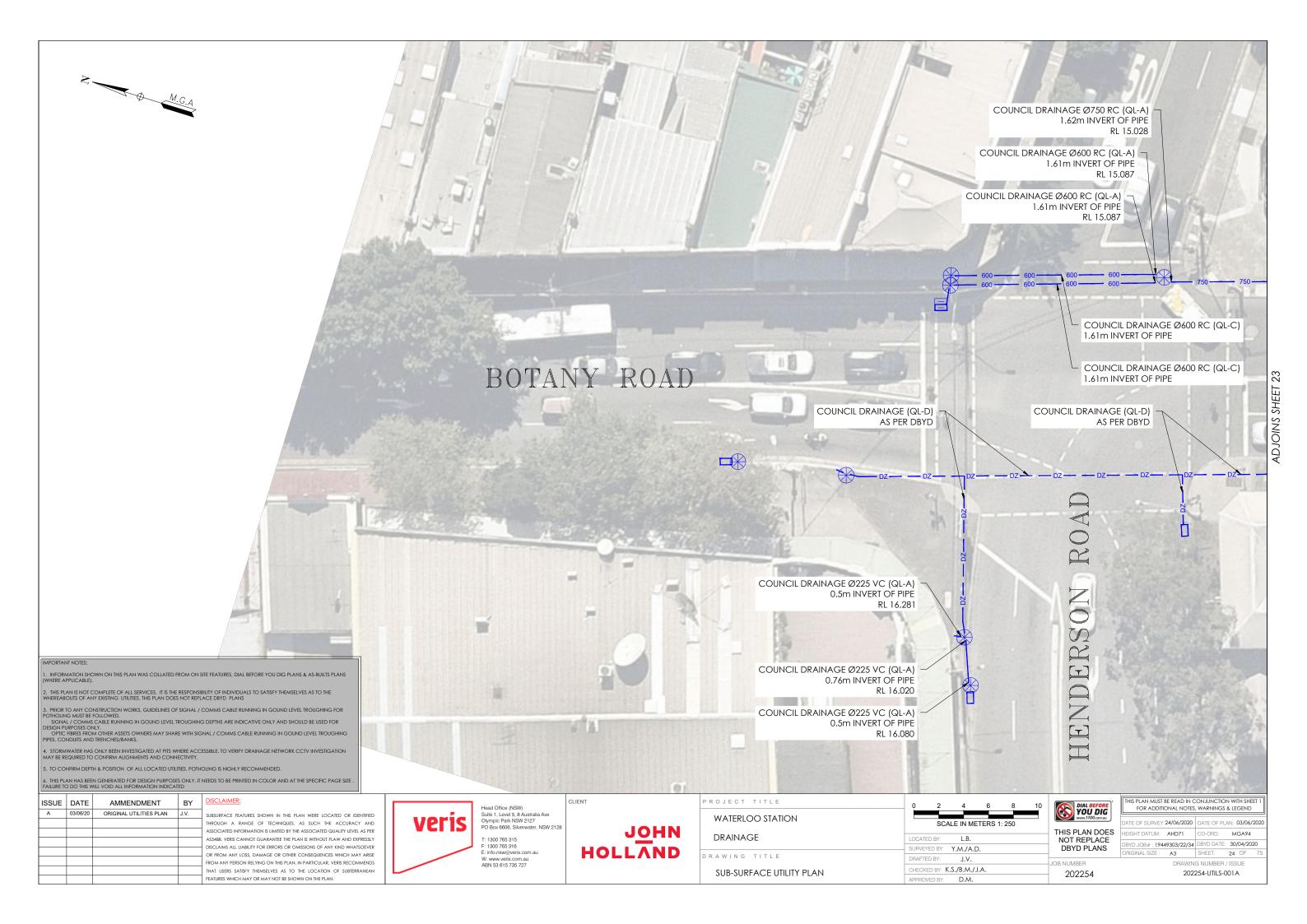
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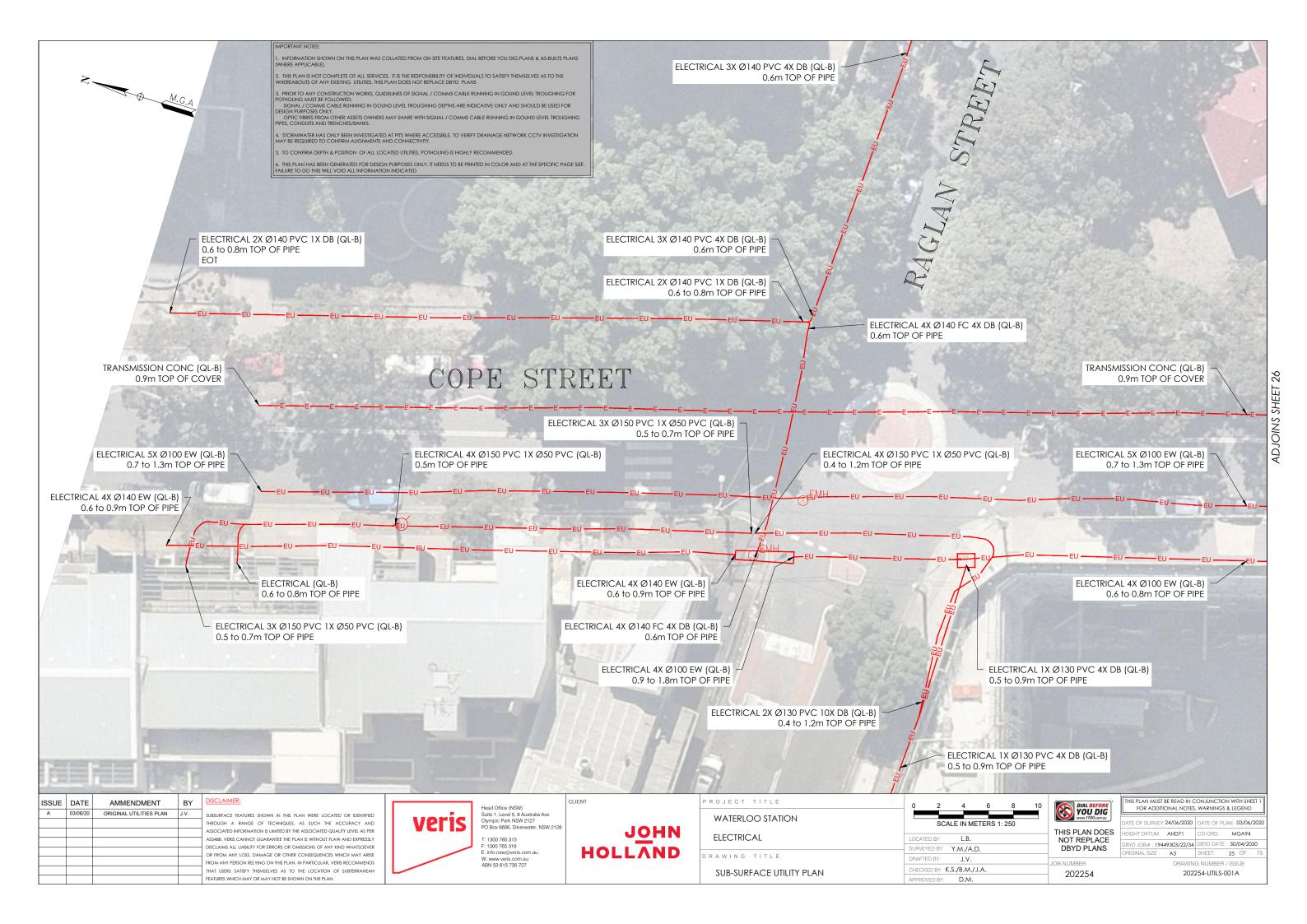


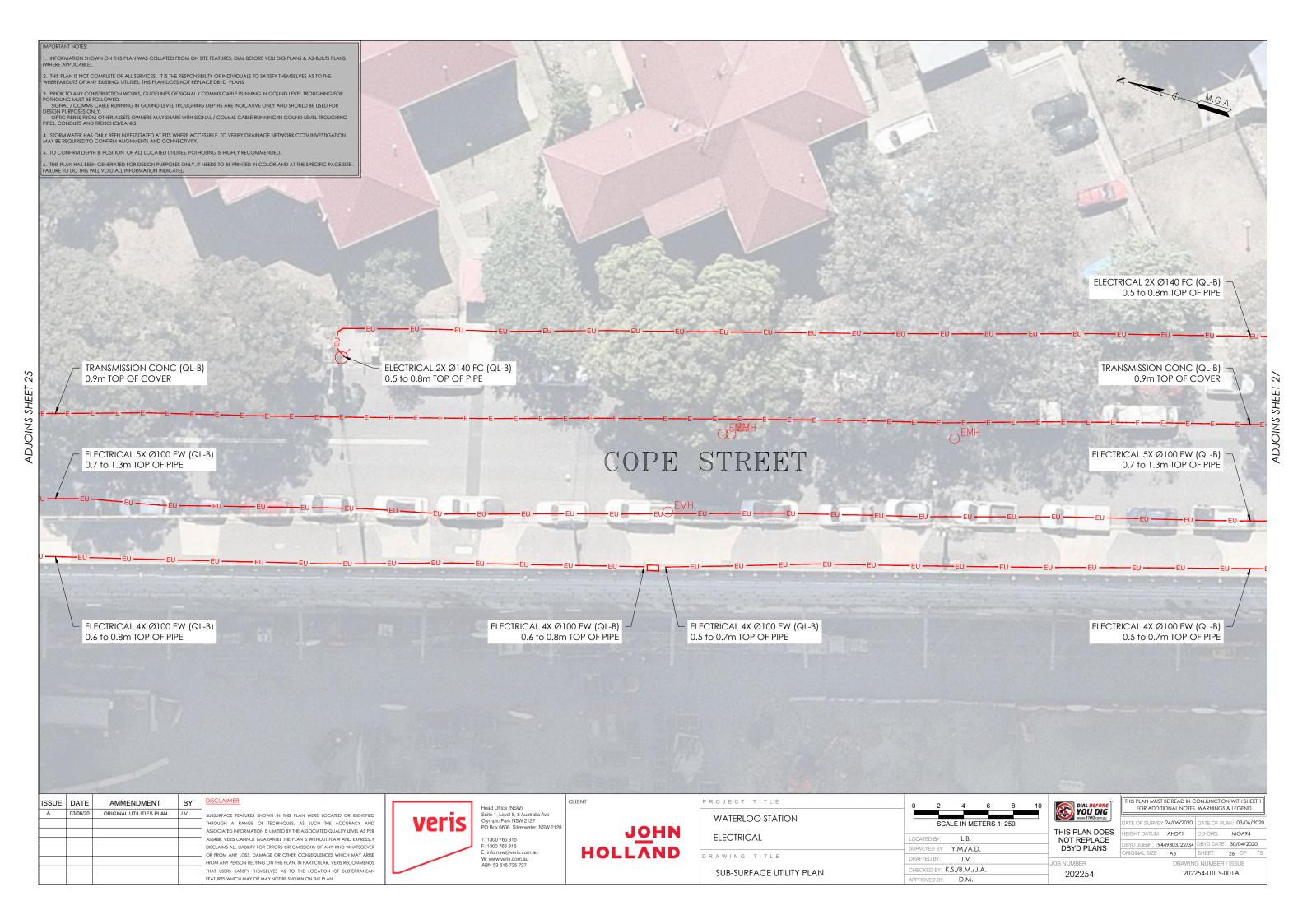


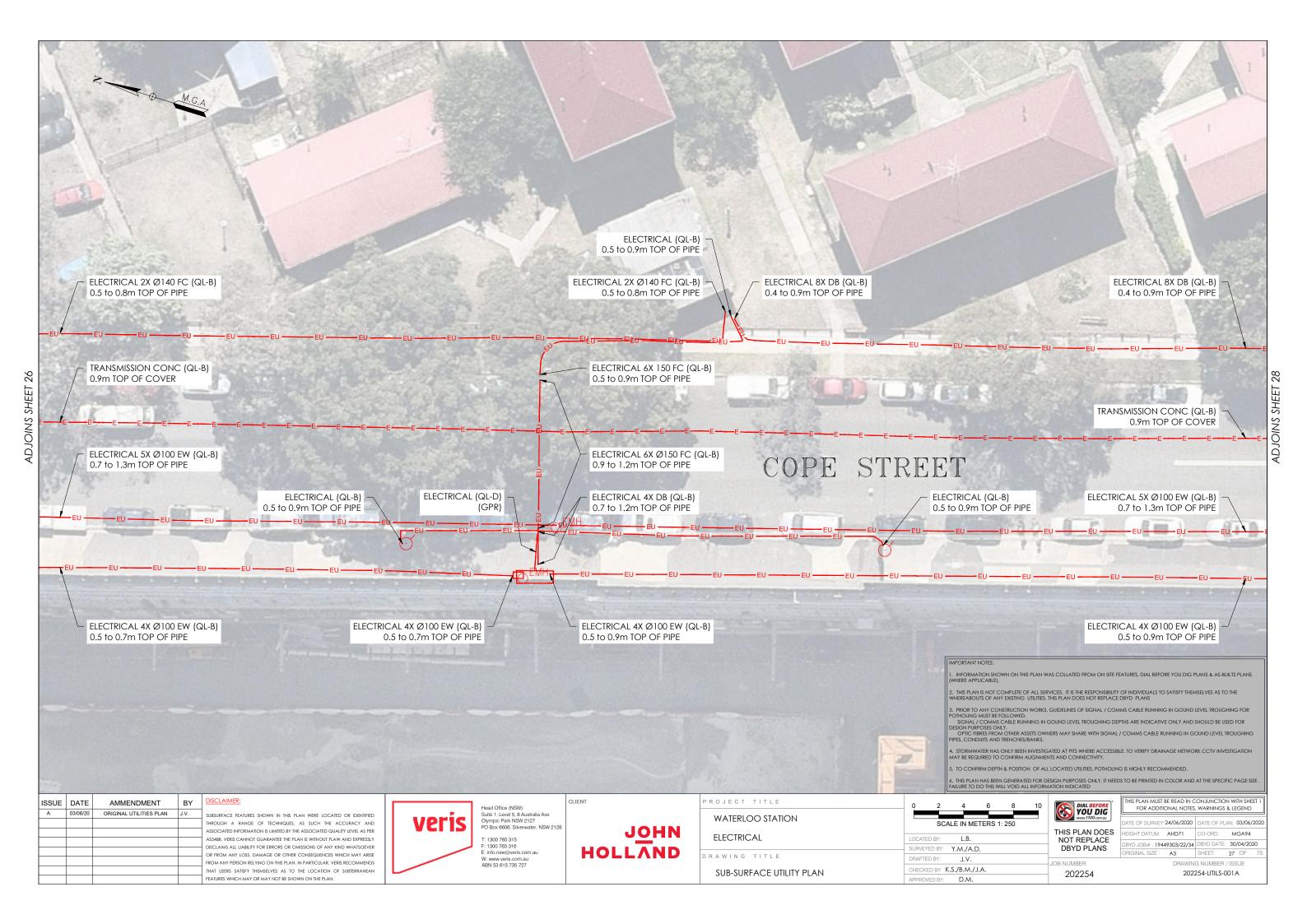


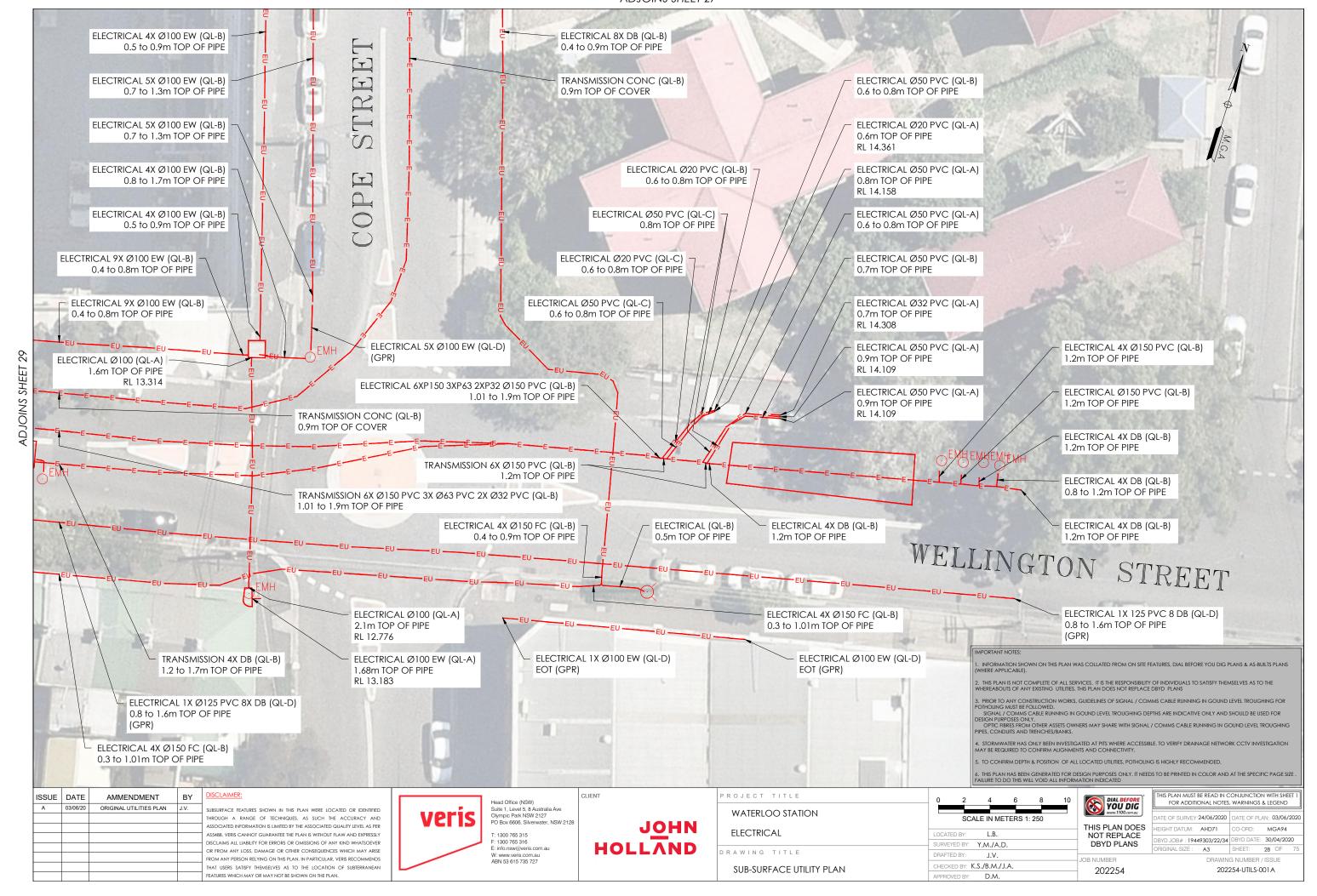


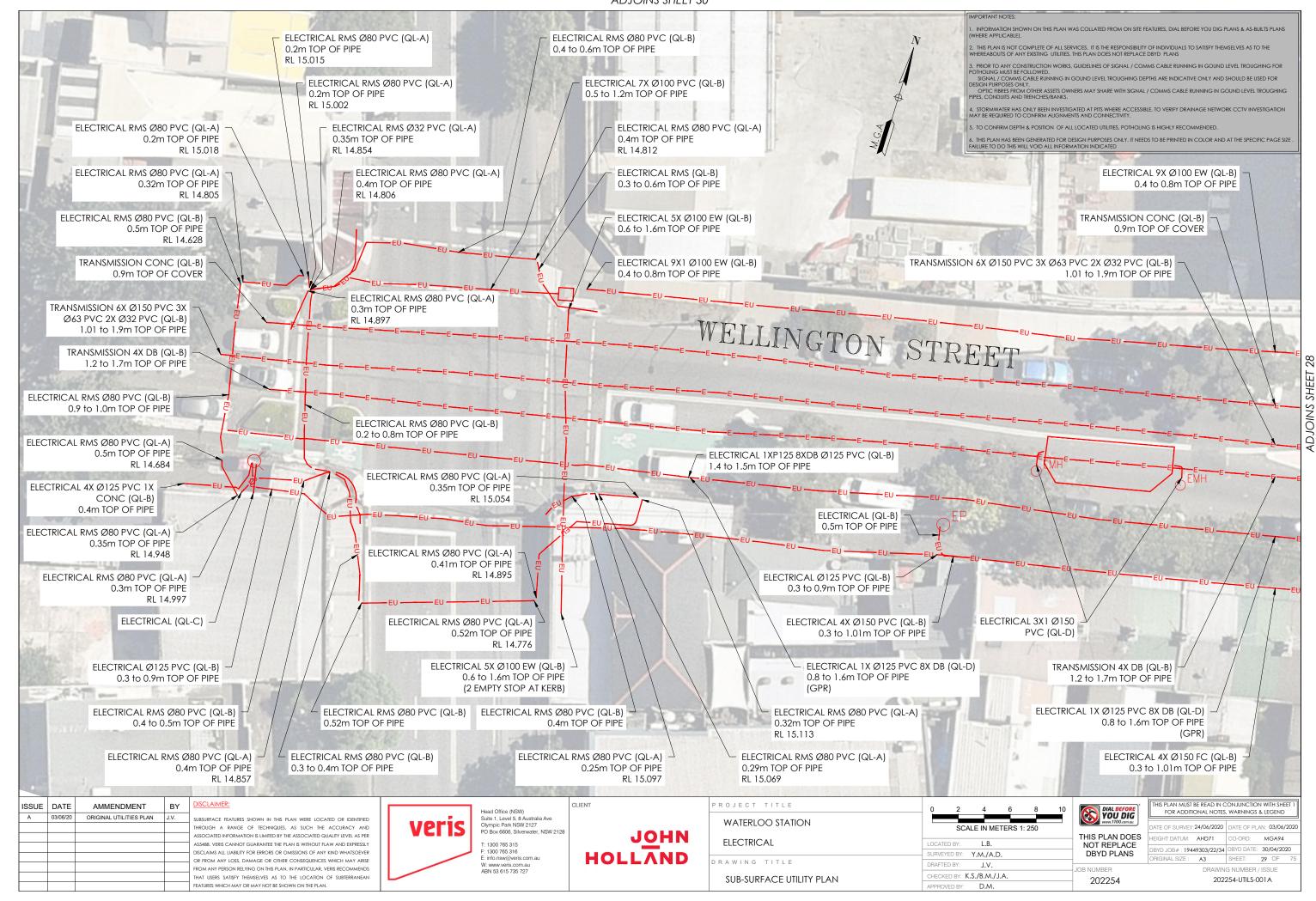


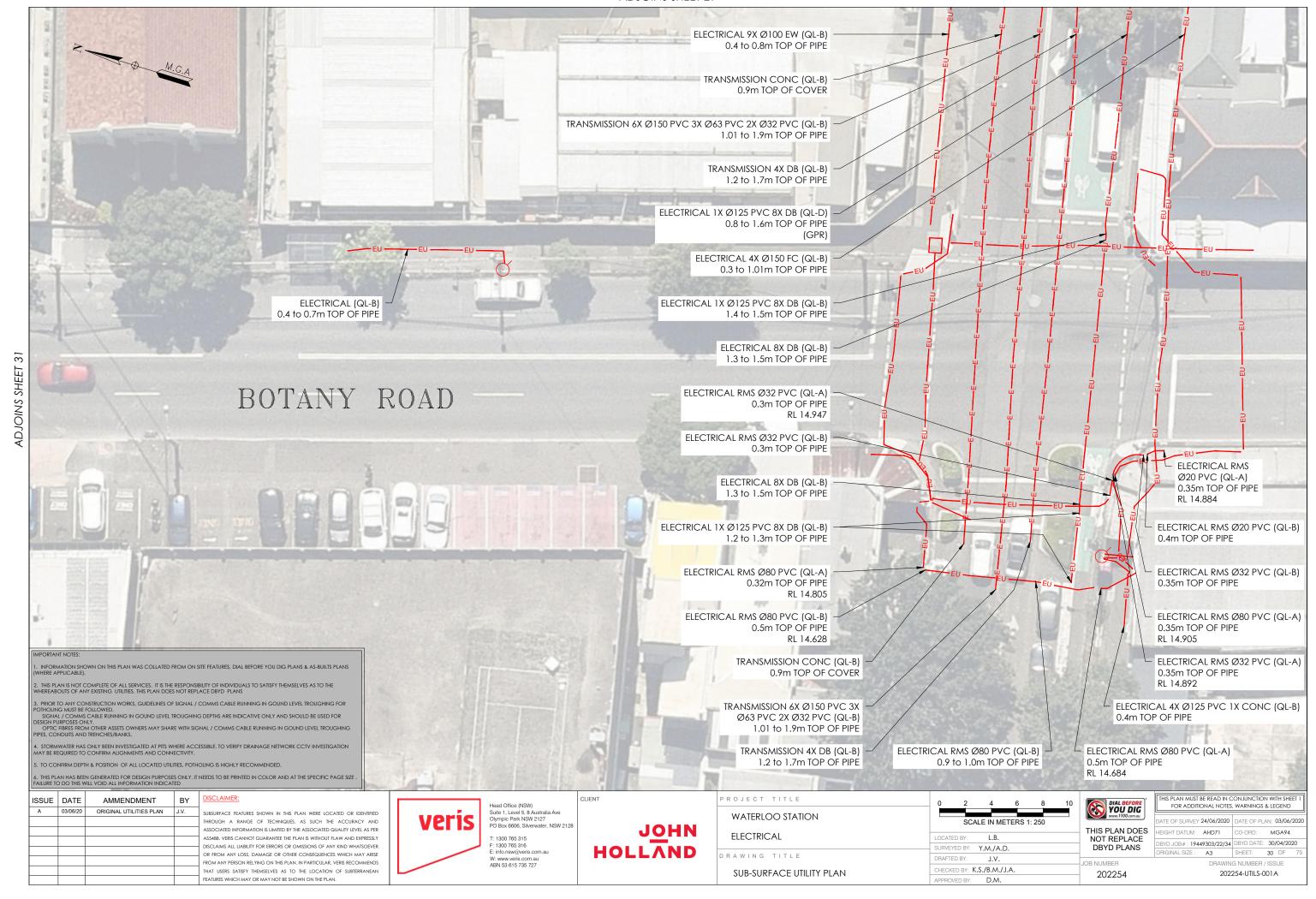


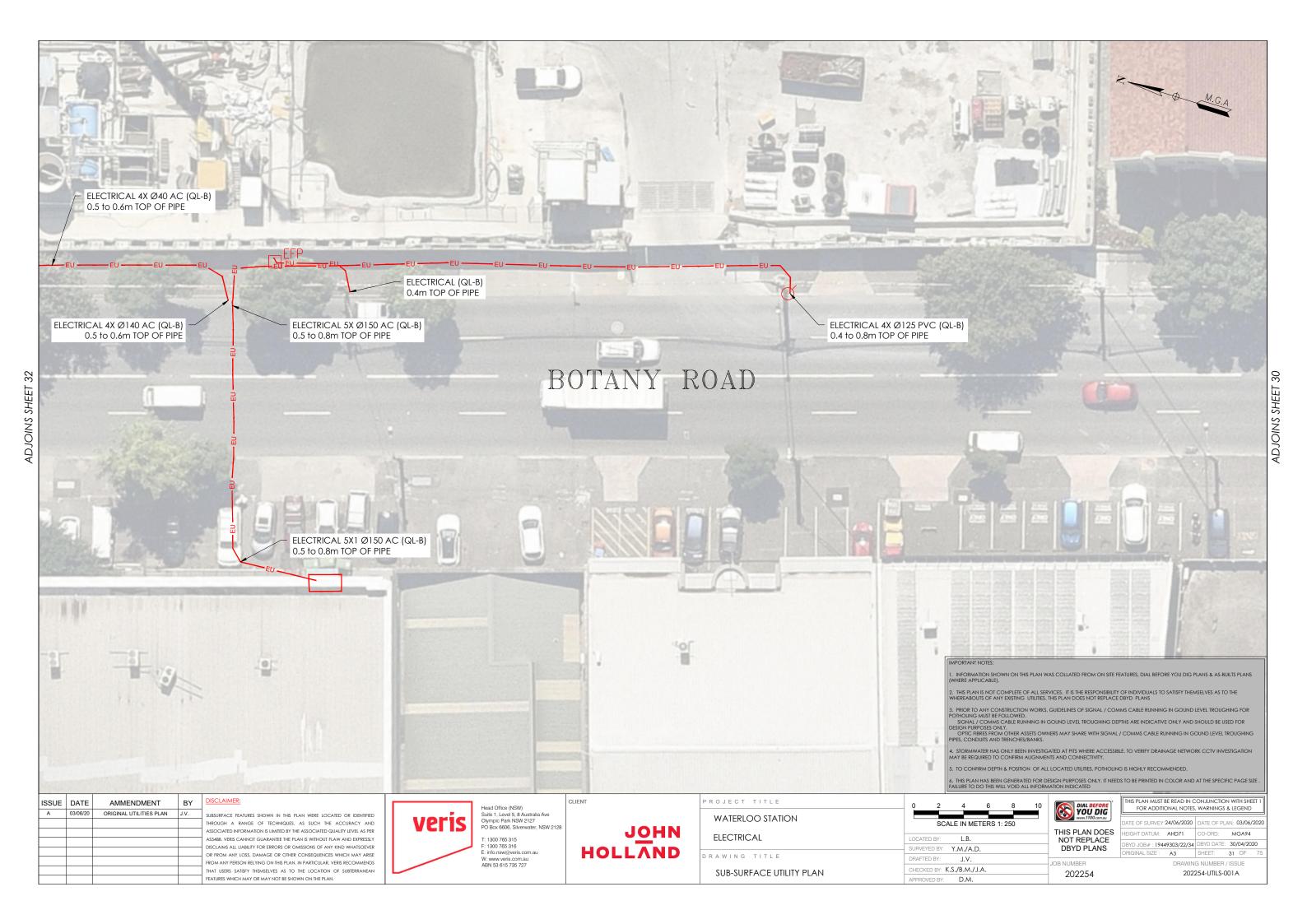


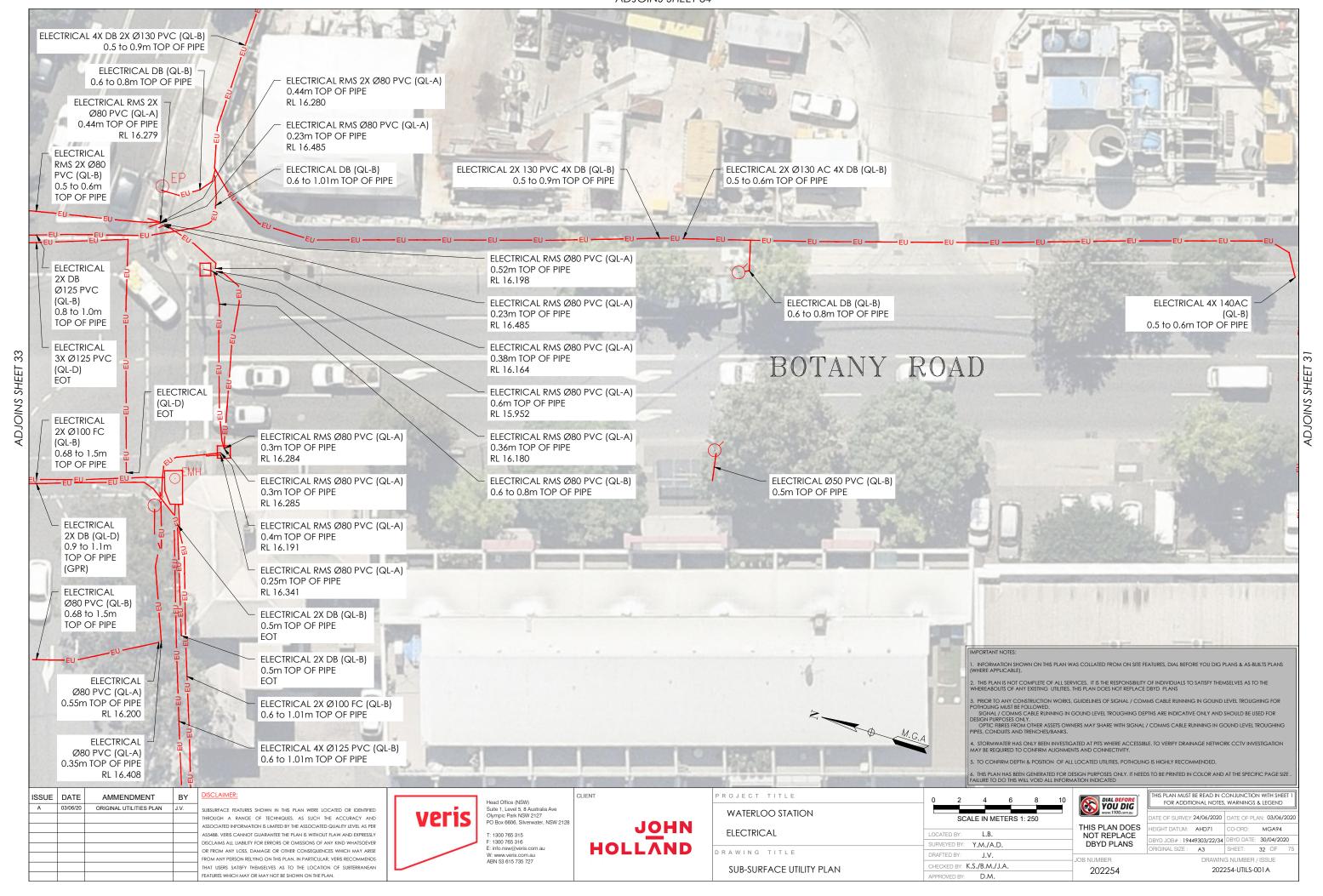


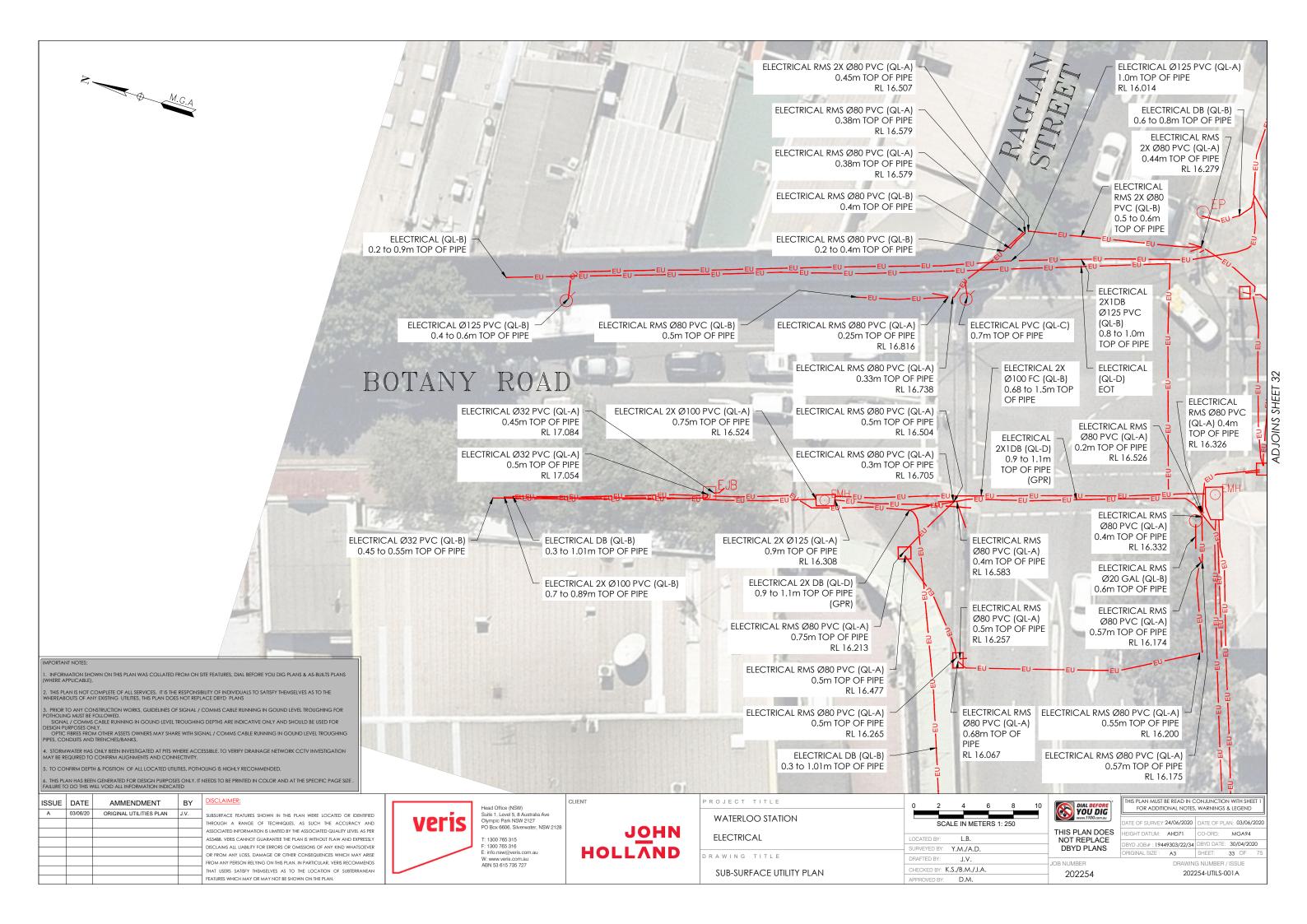


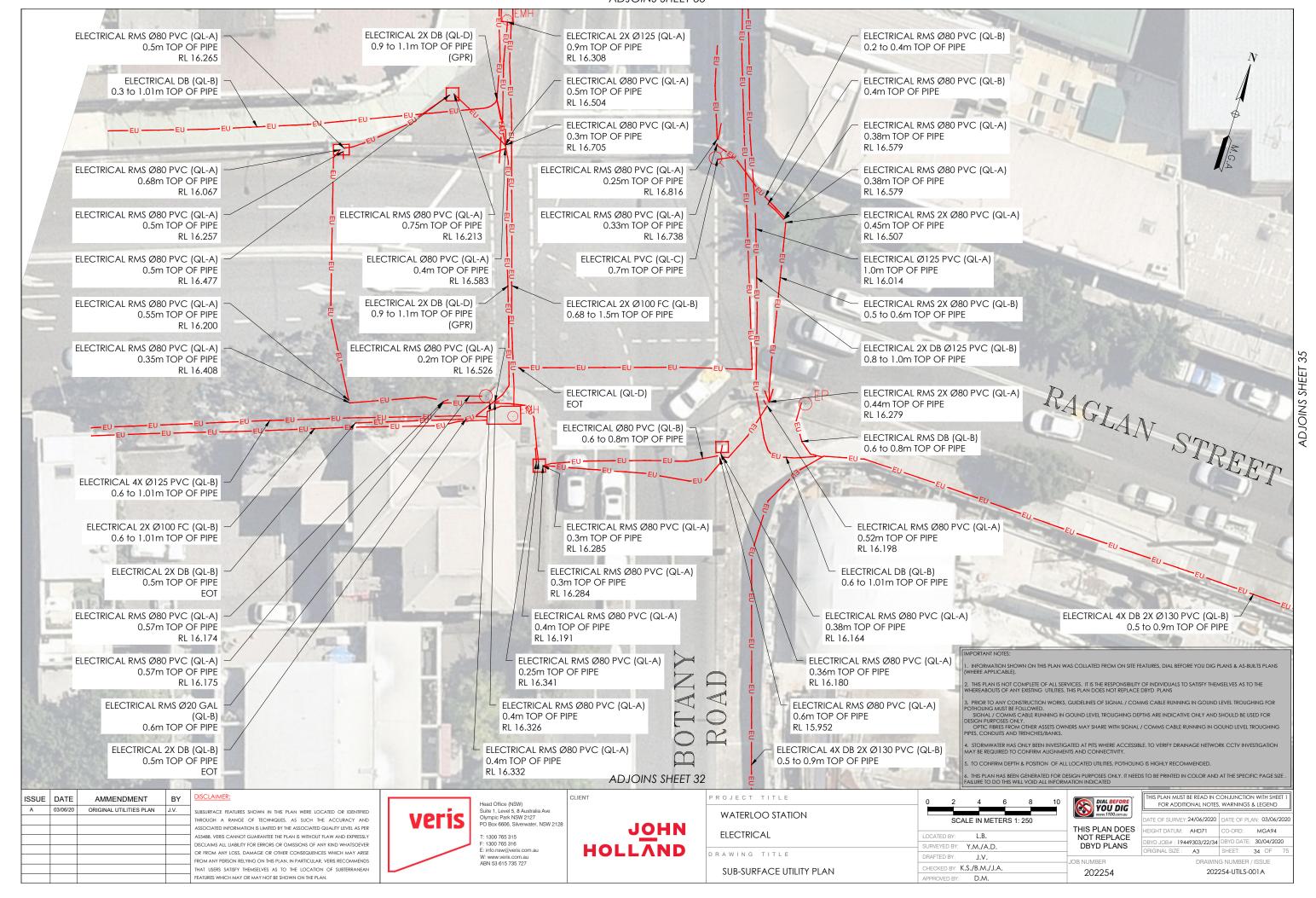


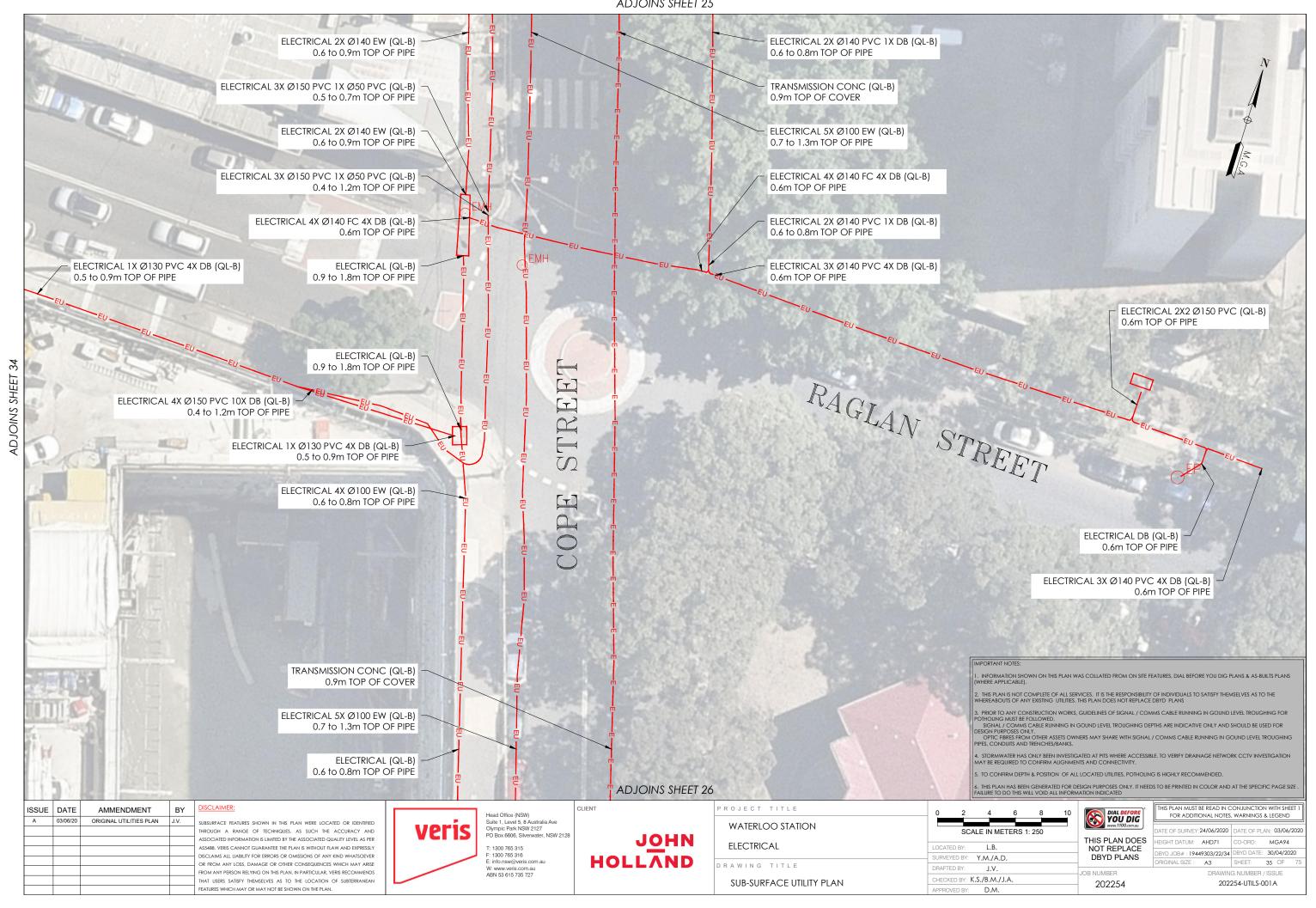


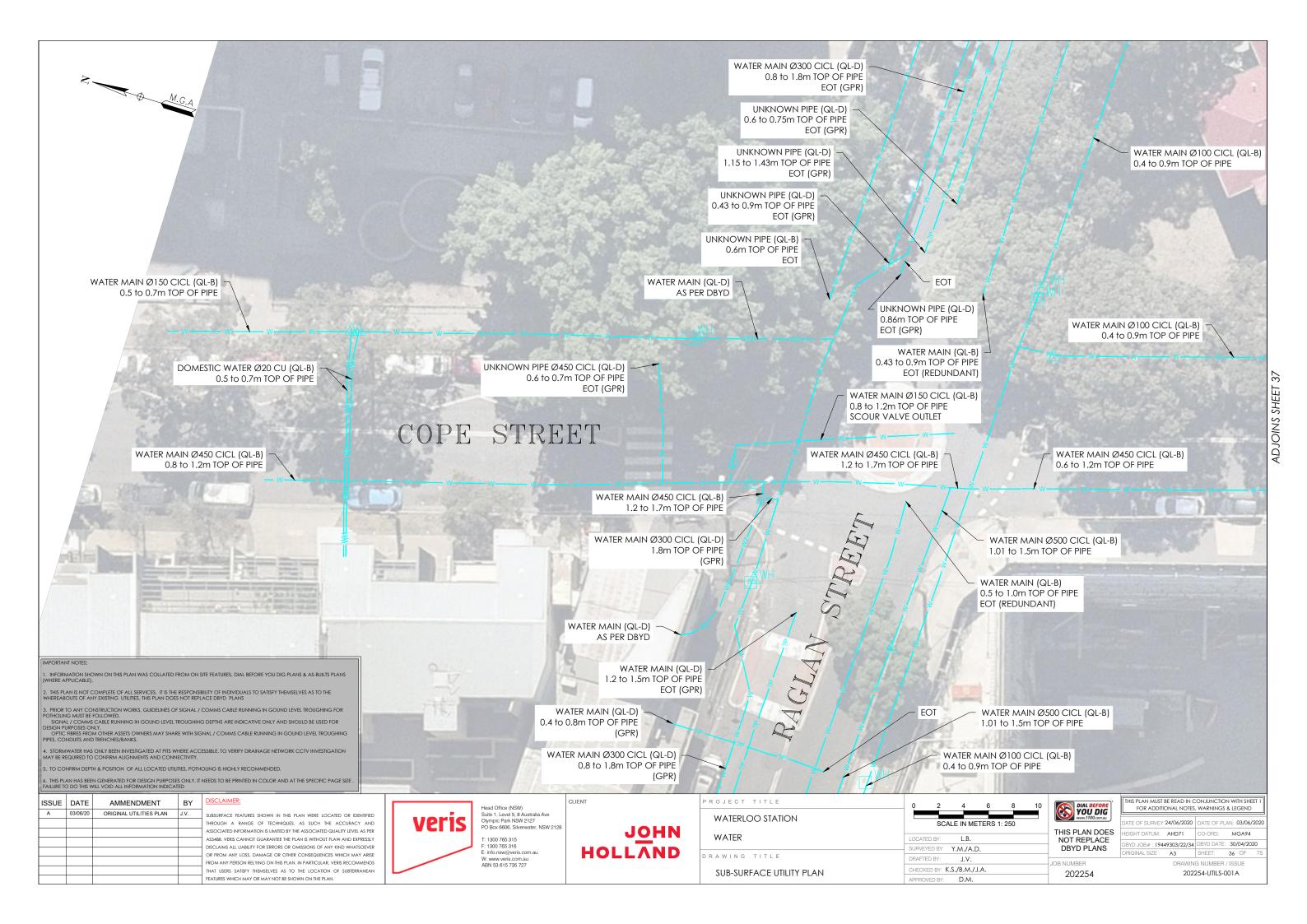


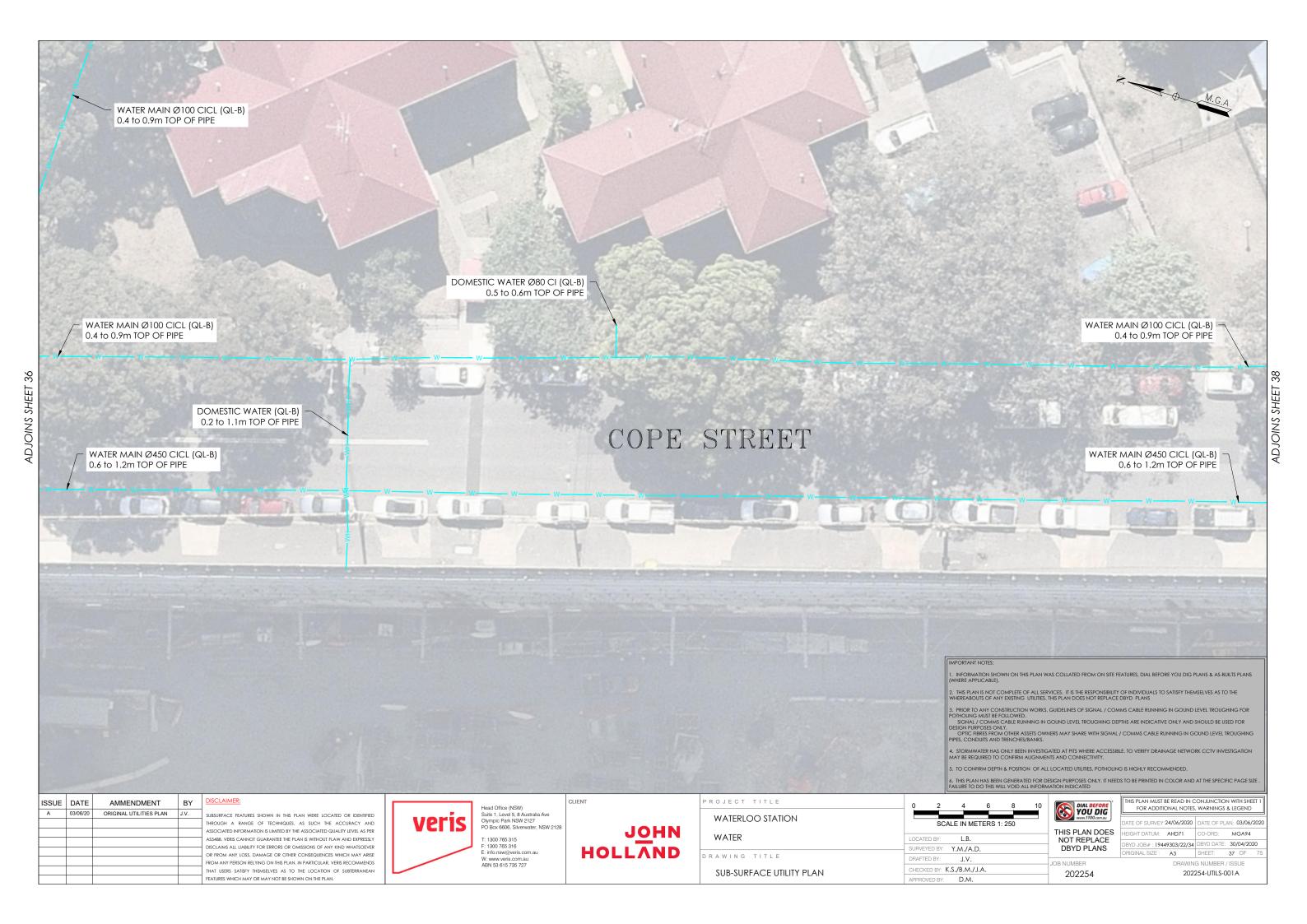




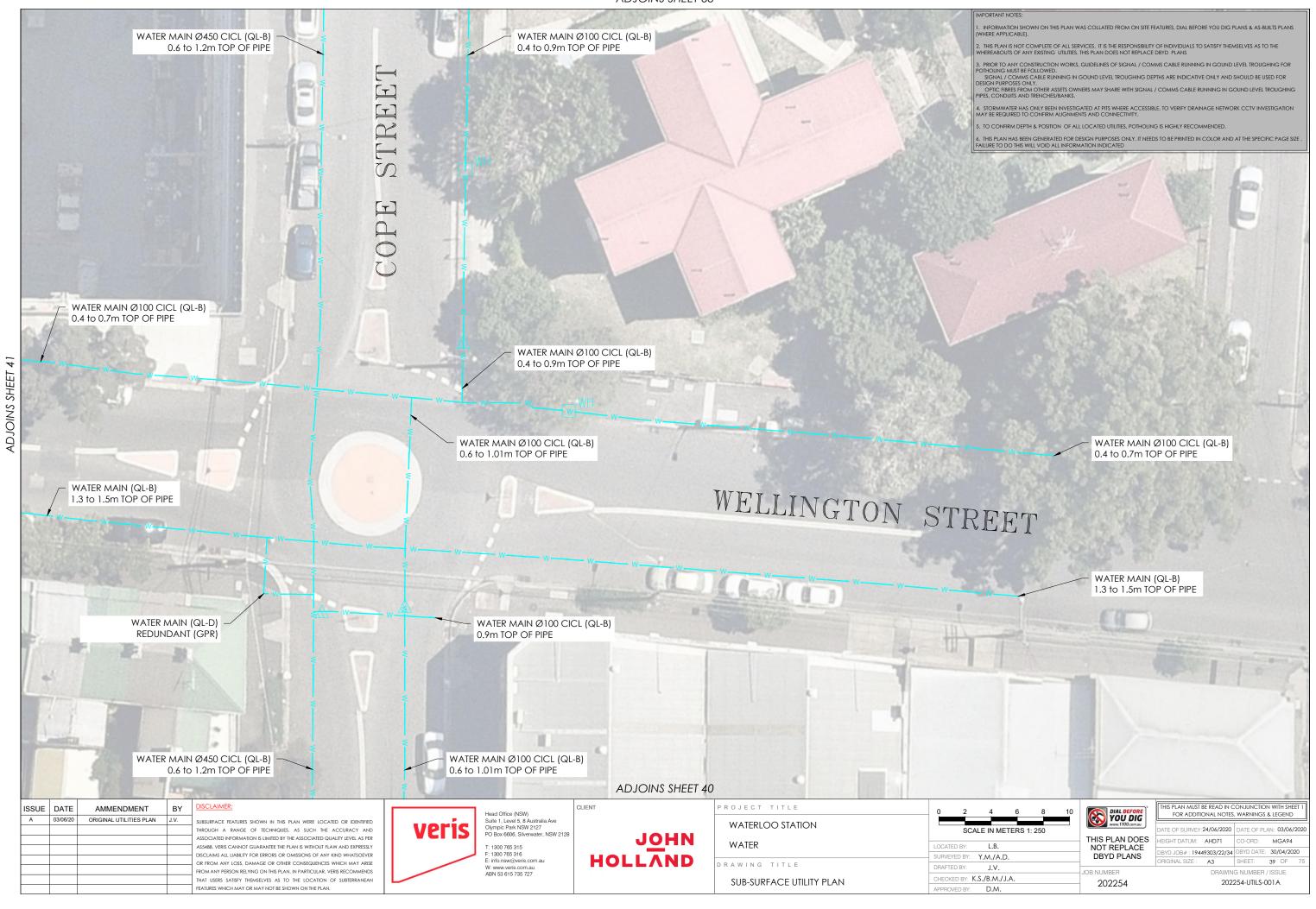


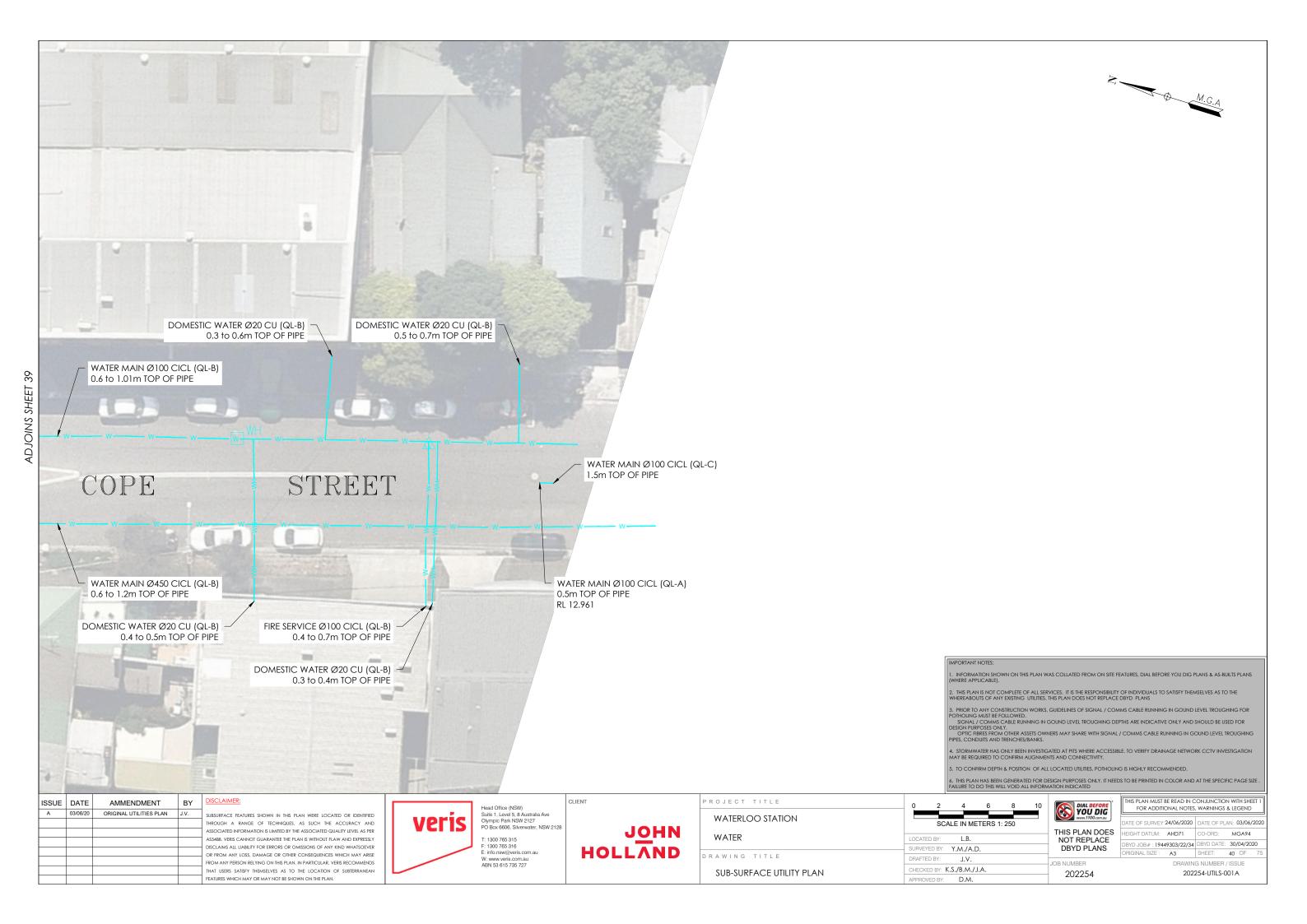


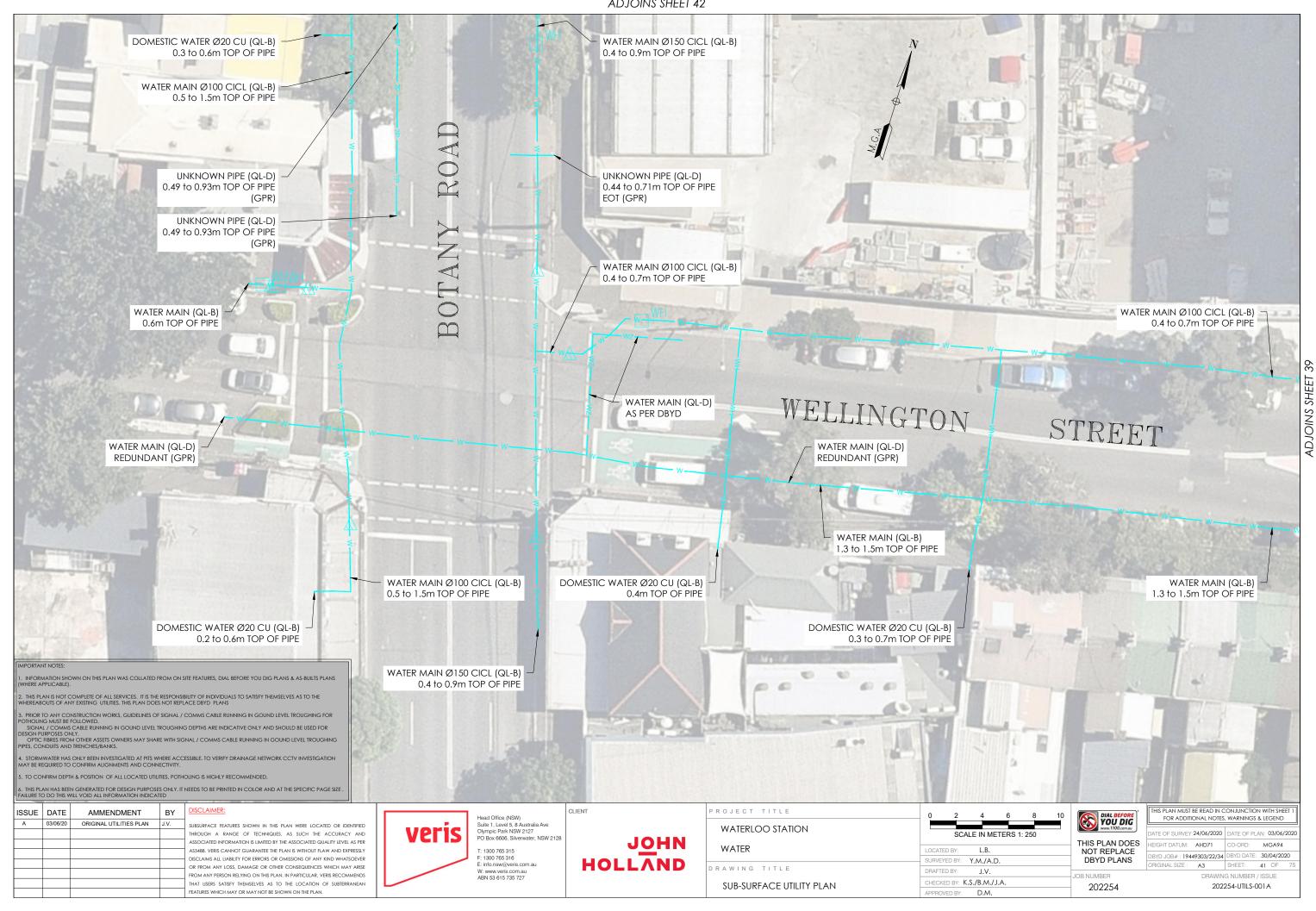


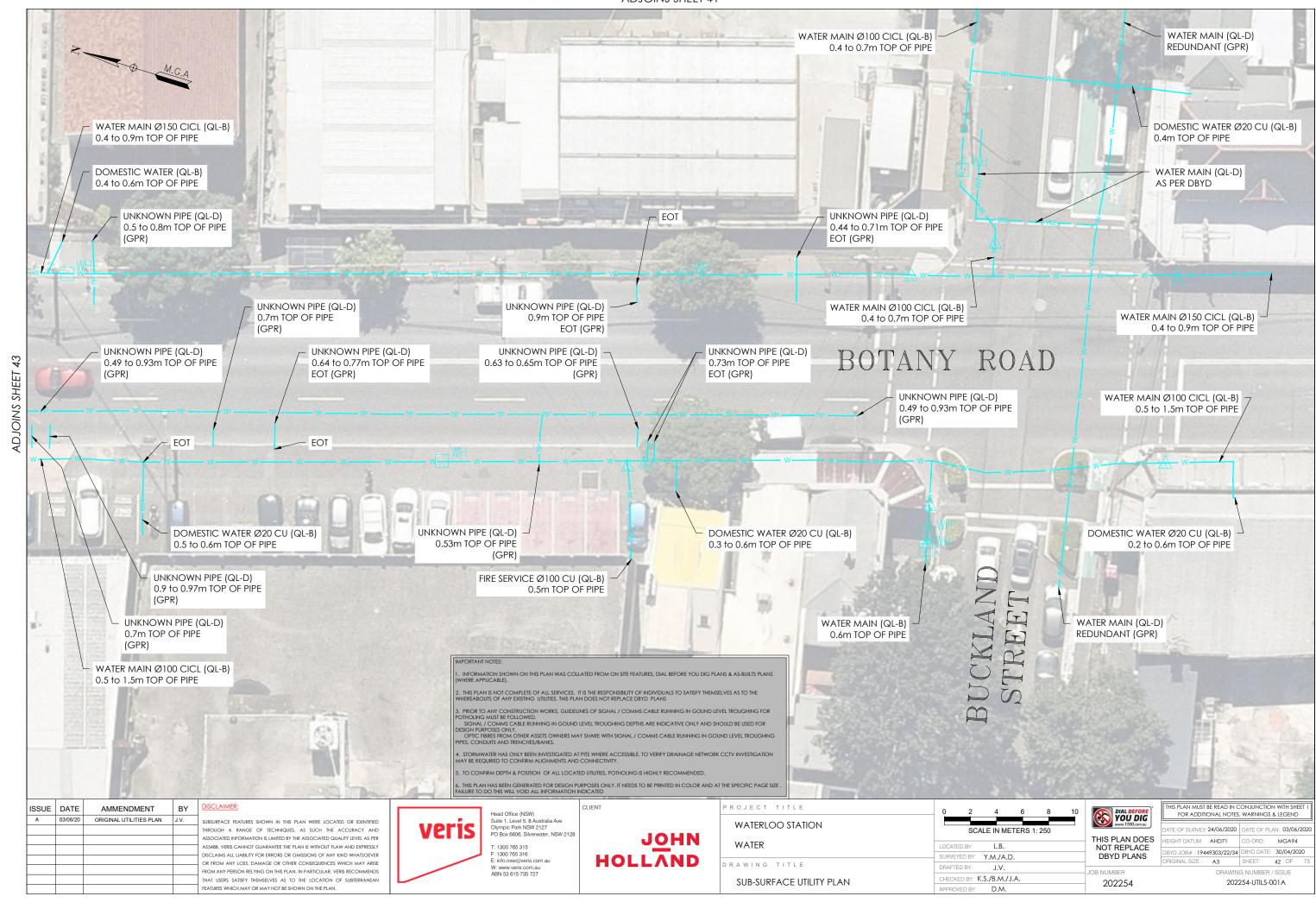


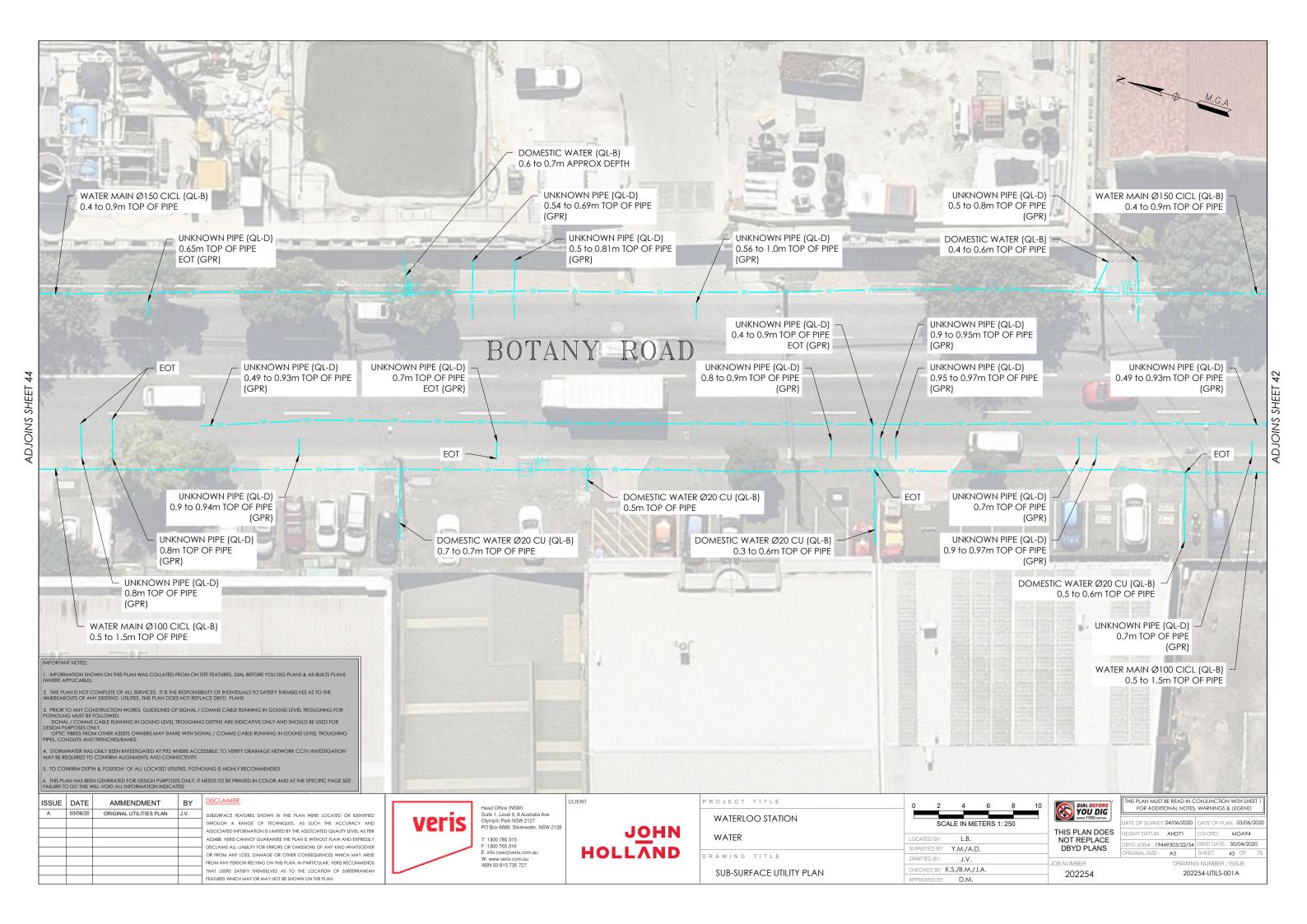


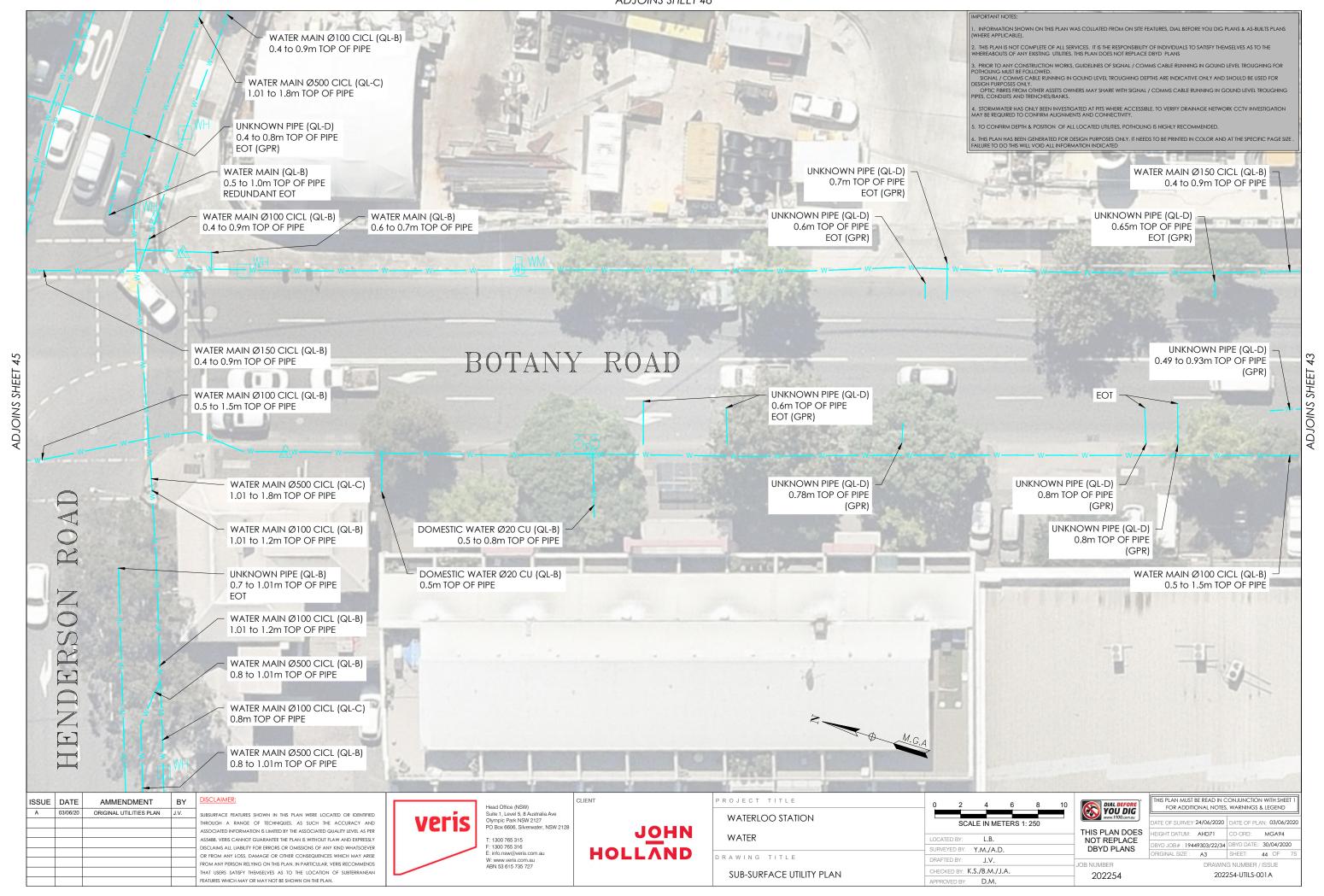


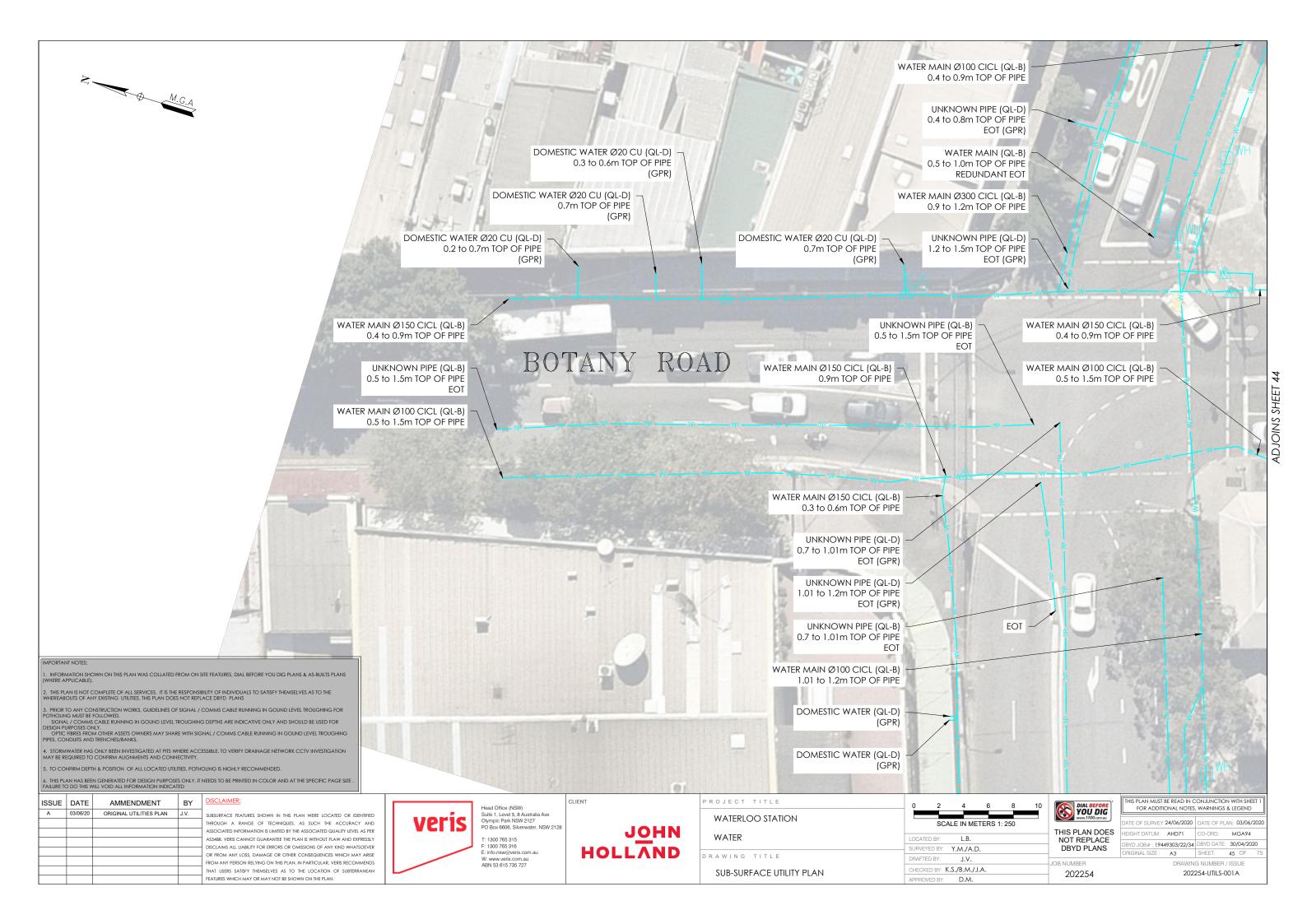


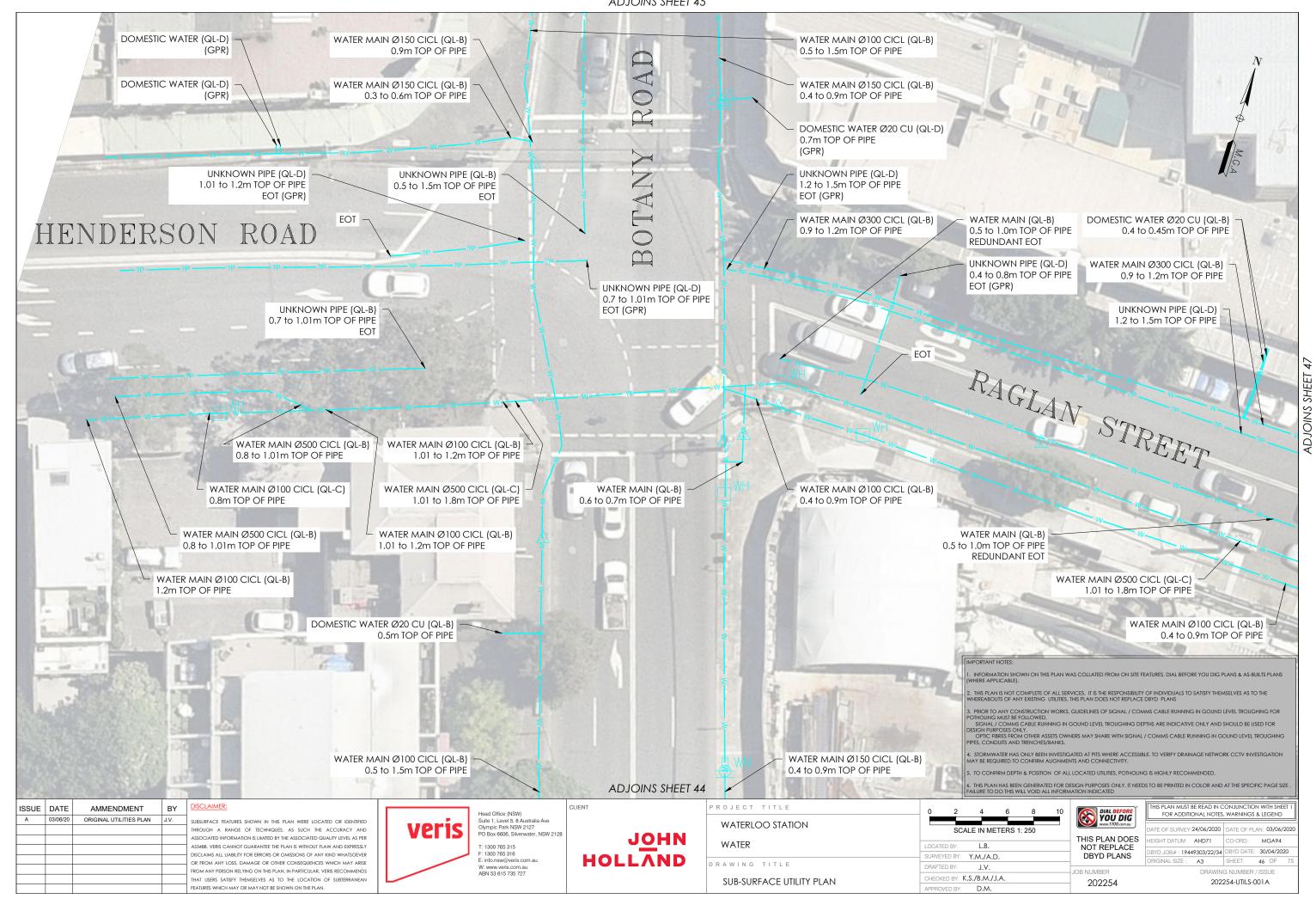


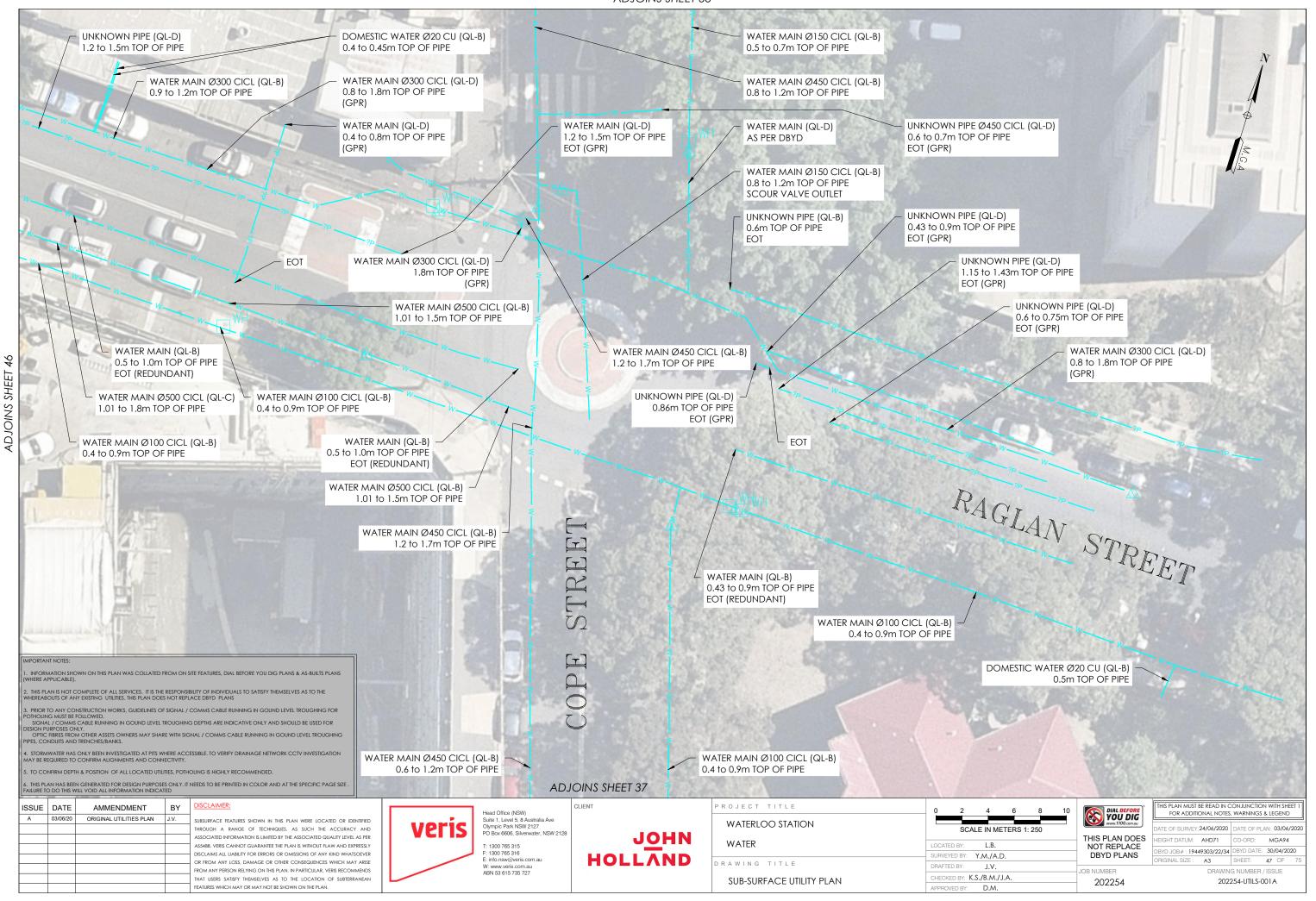


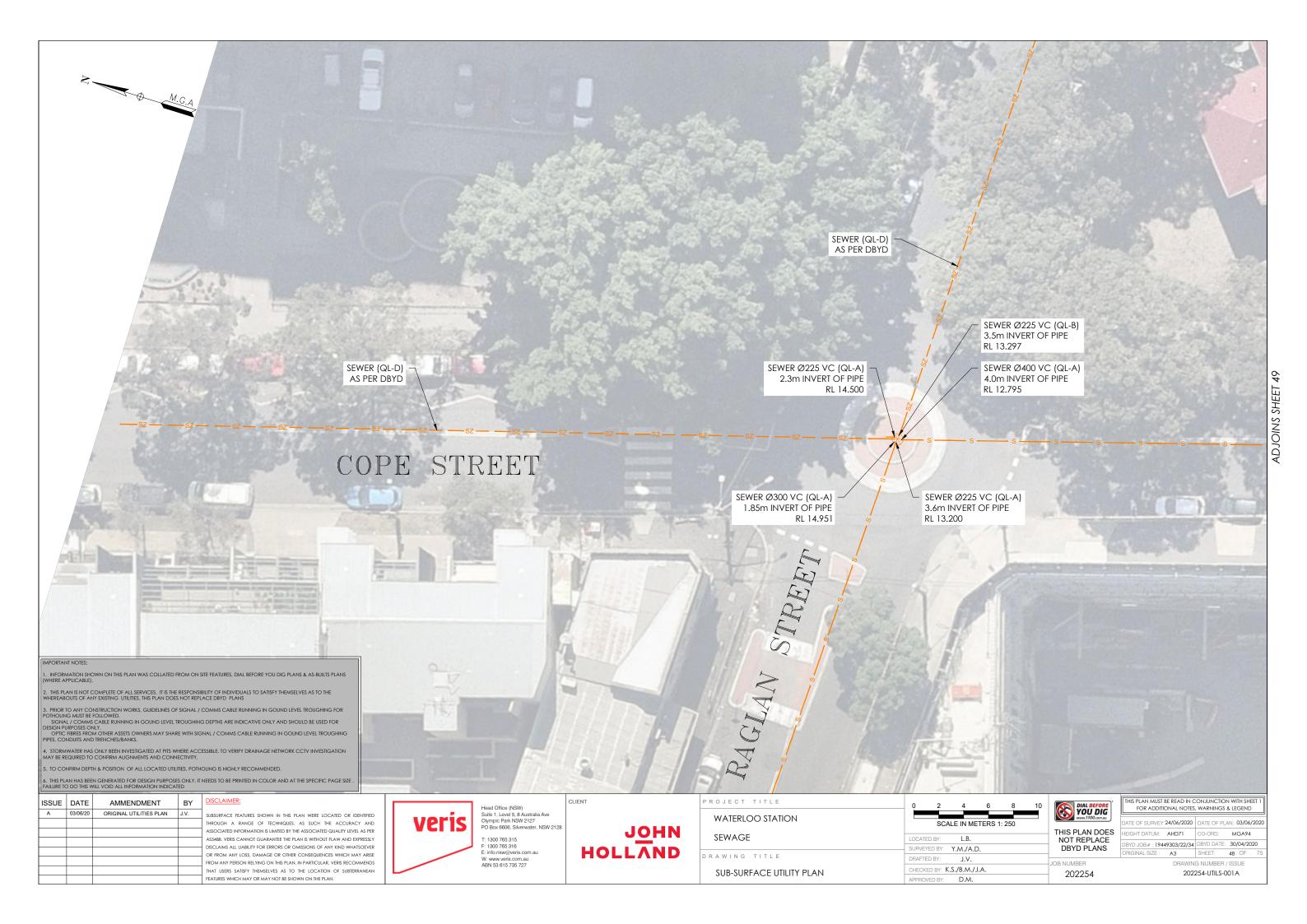


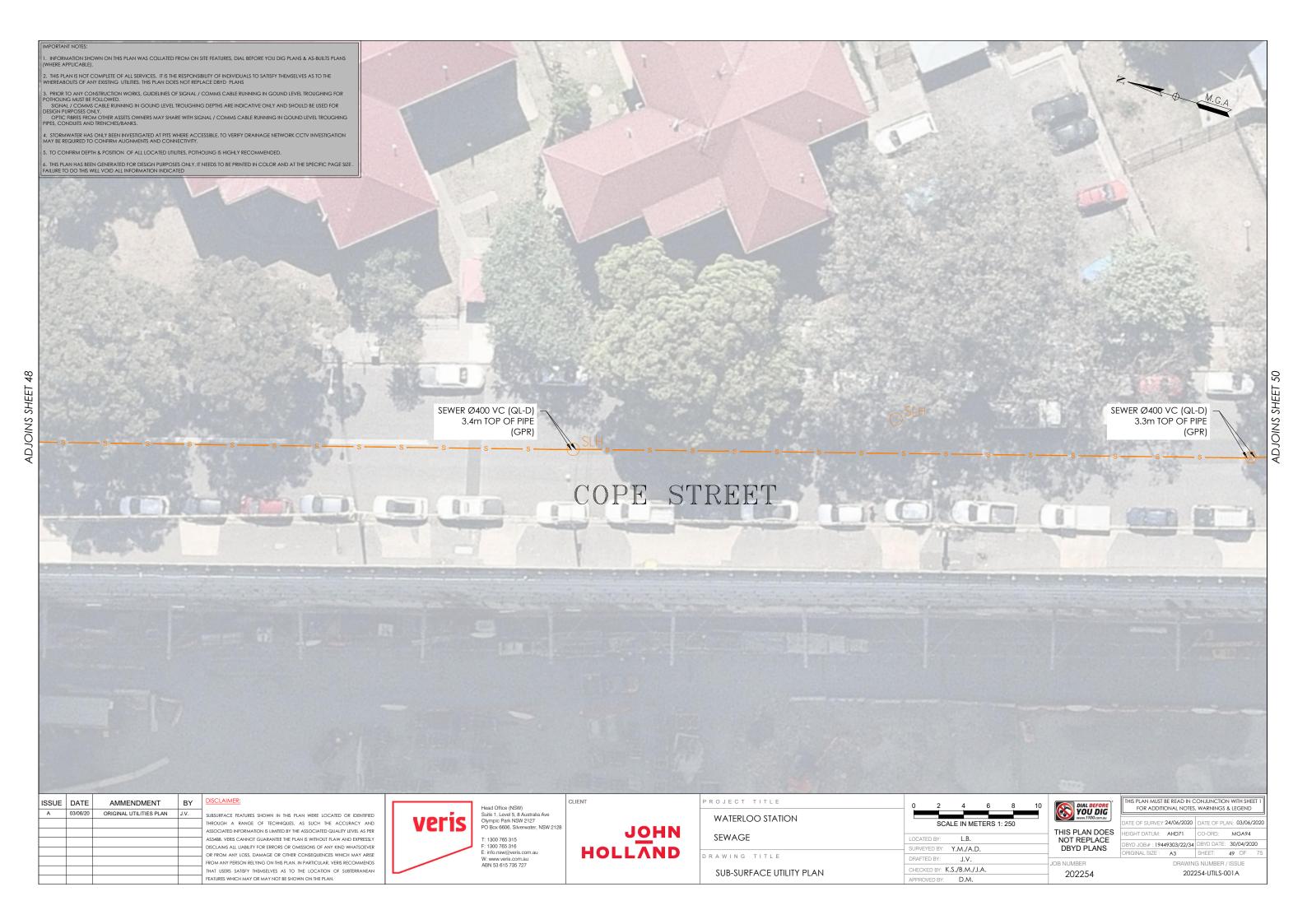




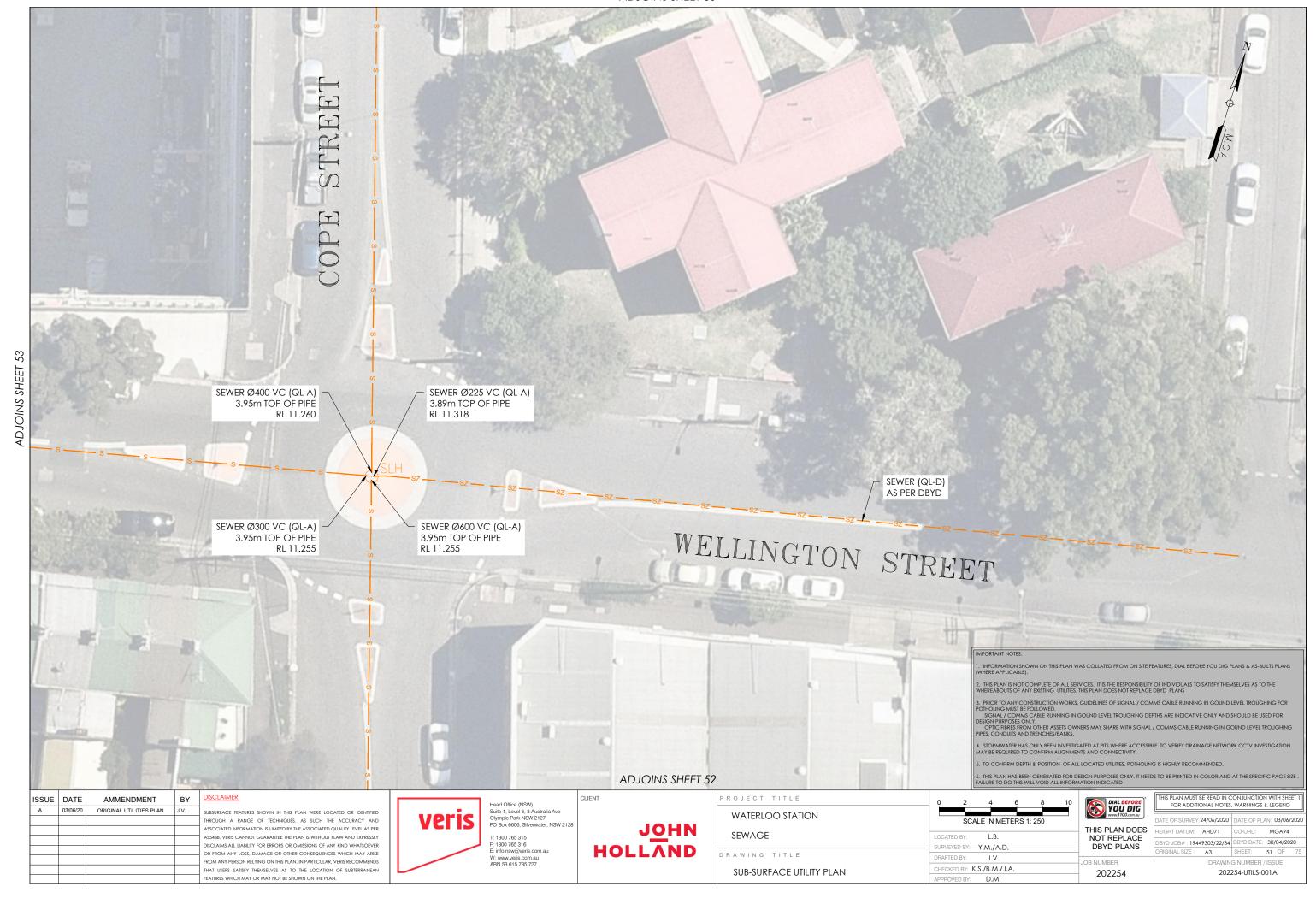














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6. THIS PLAN HAS BEEN GENERATED FOR DESIGN PURPOSES ONLY, IT NEEDS TO BE PRINTED IN COLOR AND AT THE SPECIFIC PAGE SIZE . FAILURE TO DO THIS WILL VOID ALL INFORMATION INDICATED

ISSUE	DATE	AMMENDMENT	BY	<u> </u>
Α	03/06/20	ORIGINAL UTILITIES PLAN	J.V.	SUB
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BSURFACE FEATURES SHOWN IN THIS PLAN WERE LOCATED OR IDENTIFIED ROUGH A RANGE OF TECHNIQUES. AS SUCH THE ACCURACY AND SOCIATED INFORMATION IS LIMITED BY THE ASSOCIATED QUALITY LEVEL AS PER 5488, VERIS CANNOT GUARANTEE THE PLAN IS WITHOUT FLAW AND EXPRESSLY CLAIMS ALL LIABILITY FOR ERRORS OR OMISSIONS OF ANY KIND WHATSOEVER R FROM ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON THIS PLAN. IN PARTICULAR, VERIS RECOMMENDS THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.



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T: 1300 765 315 F: 1300 765 316 E: info.nsw@veris.com.au W: www.veris.com.au ABN 53 615 735 727



ROJECT TITLE	0 2 4 6 8 10	
WATERLOO STATION	SCALE IN METERS 1: 250	<b>(</b>
SEWAGE	LOCATED BY: L.B.	THIS
	SURVEYED BY: Y.M./A.D.	DI
RAWING TITLE	DRAFTED BY: J.V.	OD NII
SUB-SURFACE UTILITY PLAN	CHECKED BY: K.S./B.M./J.A.	IOB NI
30D-30KLACE OTILITET LAIN	APPROVED BY: D.M.	2

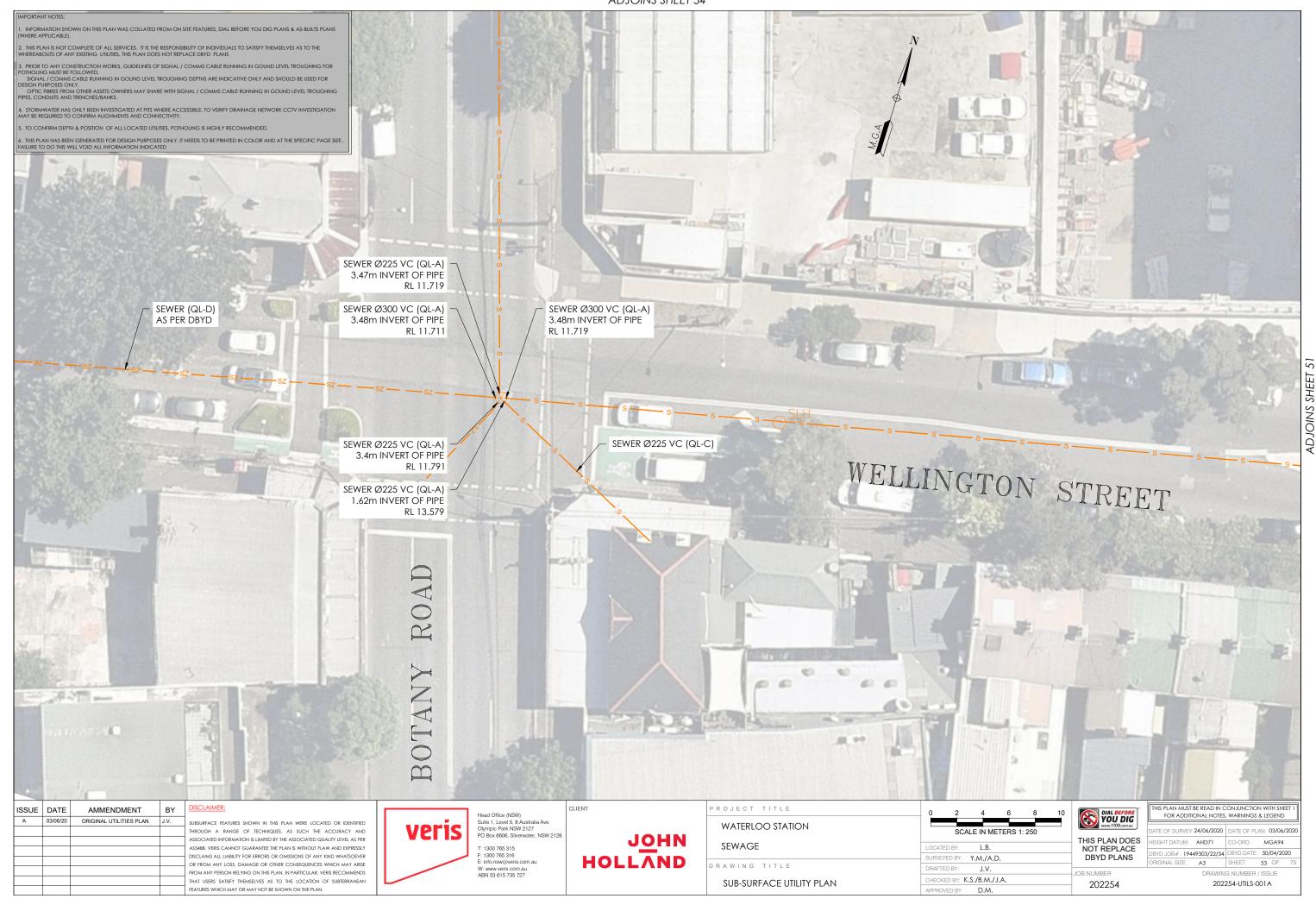
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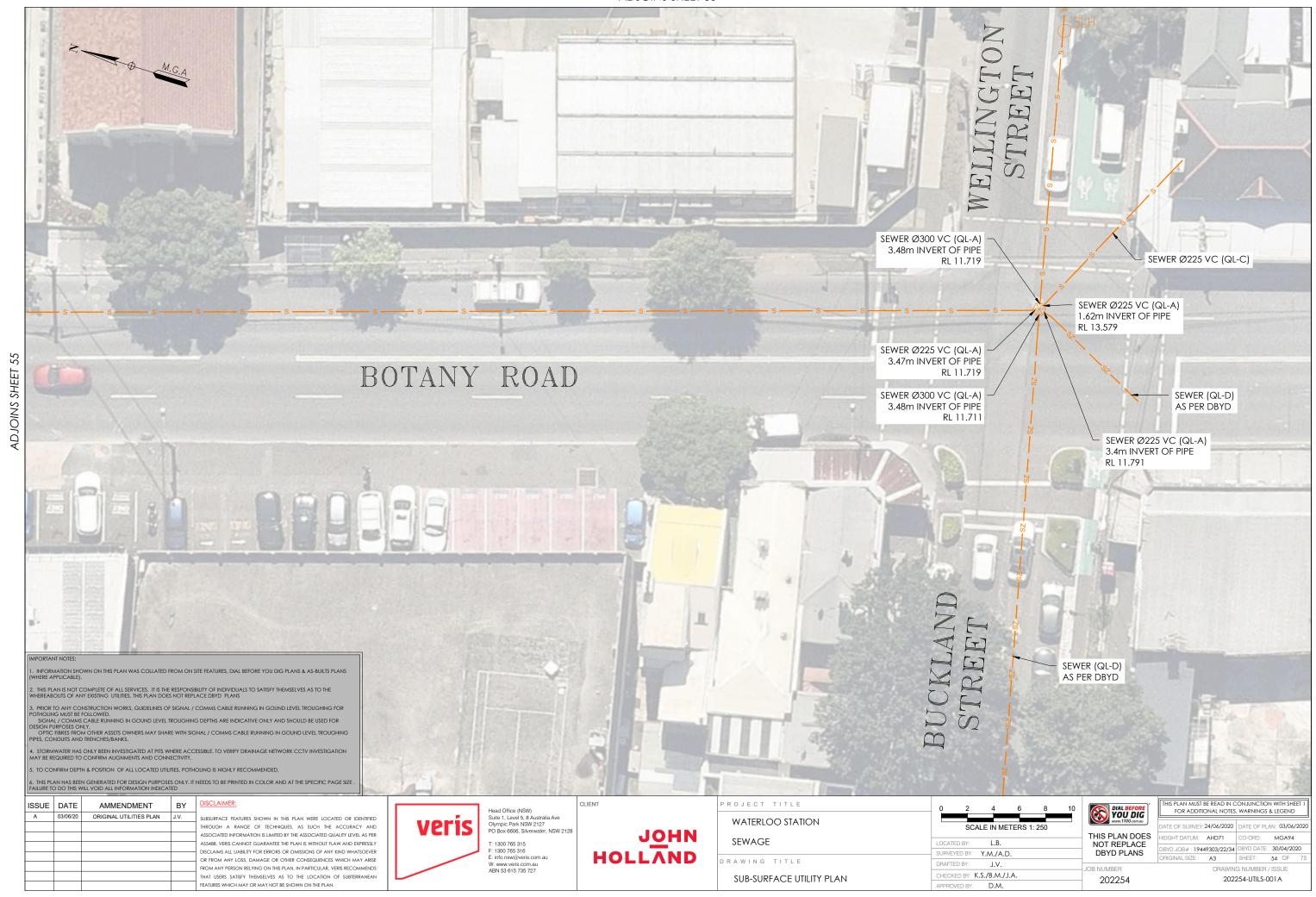
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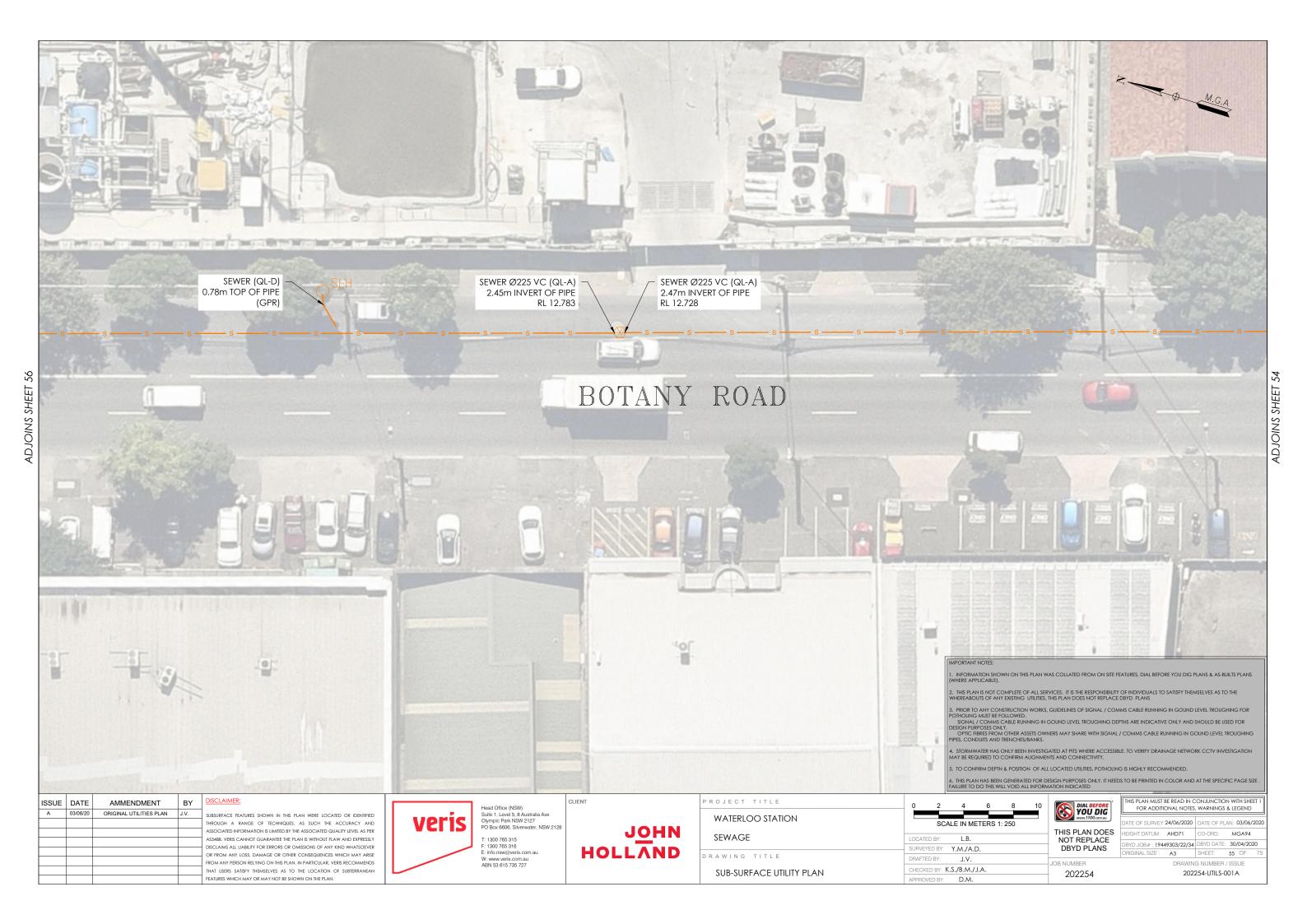
THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET FOR ADDITIONAL NOTES, WARNINGS & LEGEND

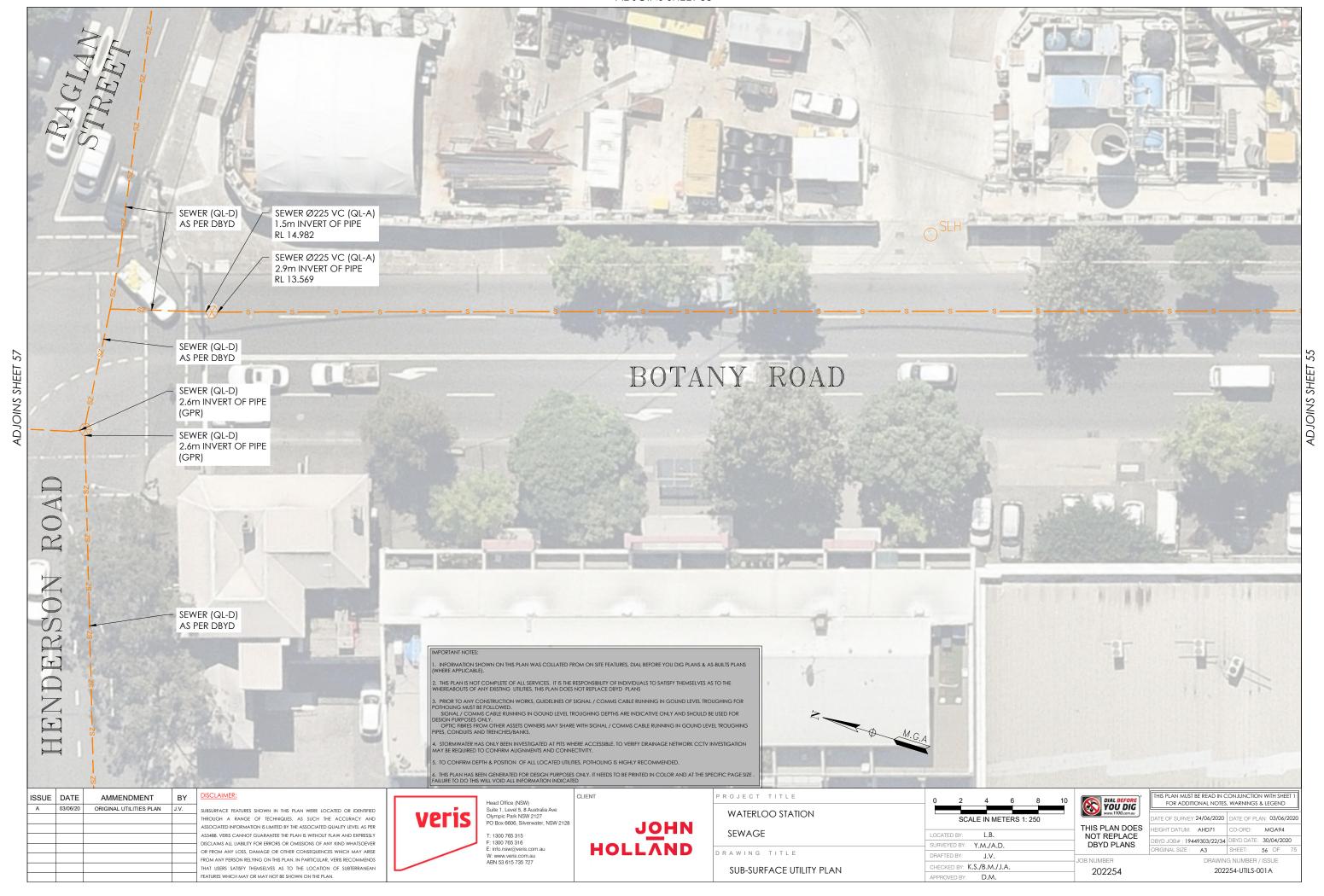
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	HEIGHT DATUM: AHD71	CO-ORD: MGA94		
DBYD JOB# : 19449303/22/34		DBYD DATE: 30/04/2020		
	ORIGINAL SIZE: A3	SHEET: 52 OF 75		
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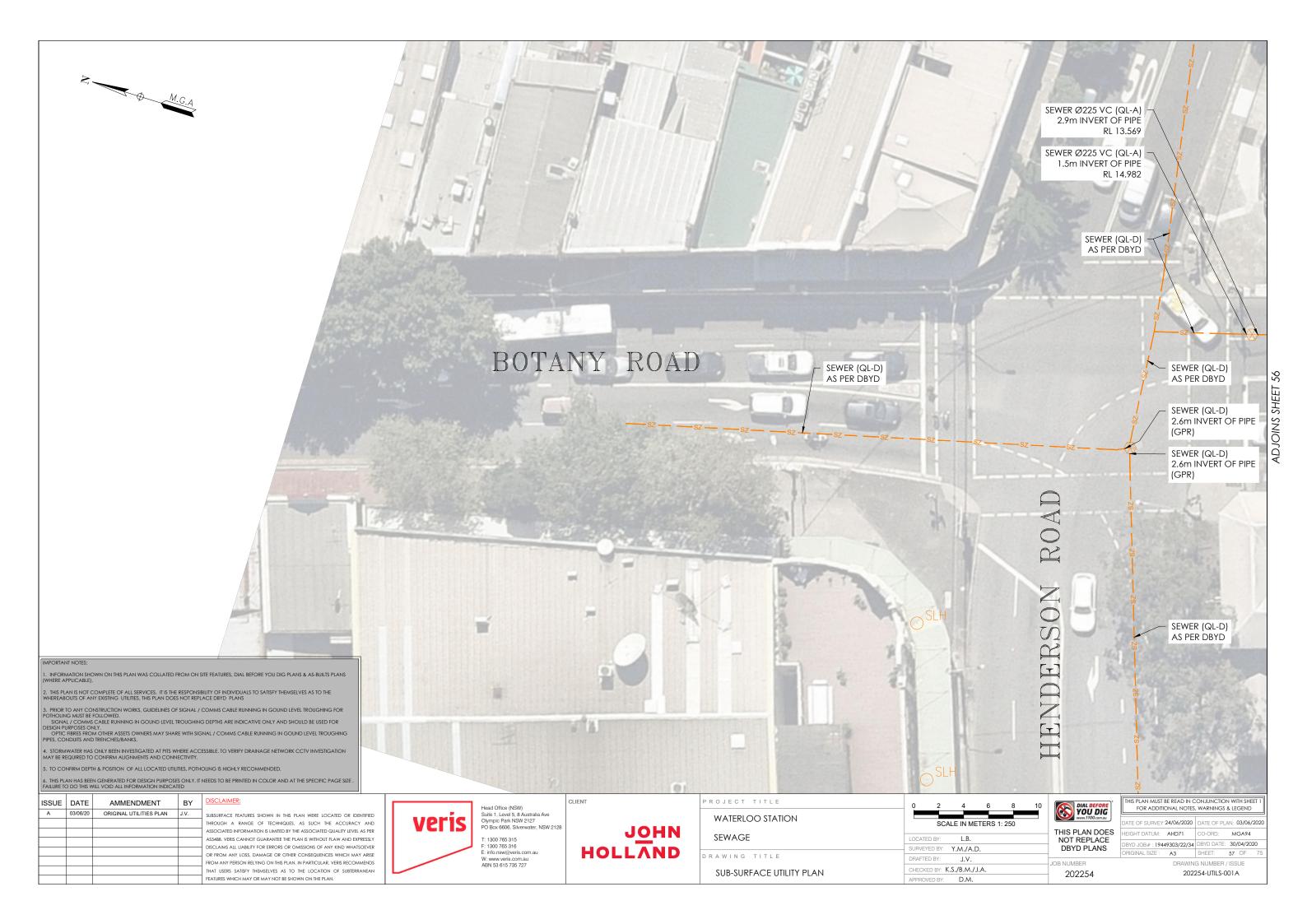
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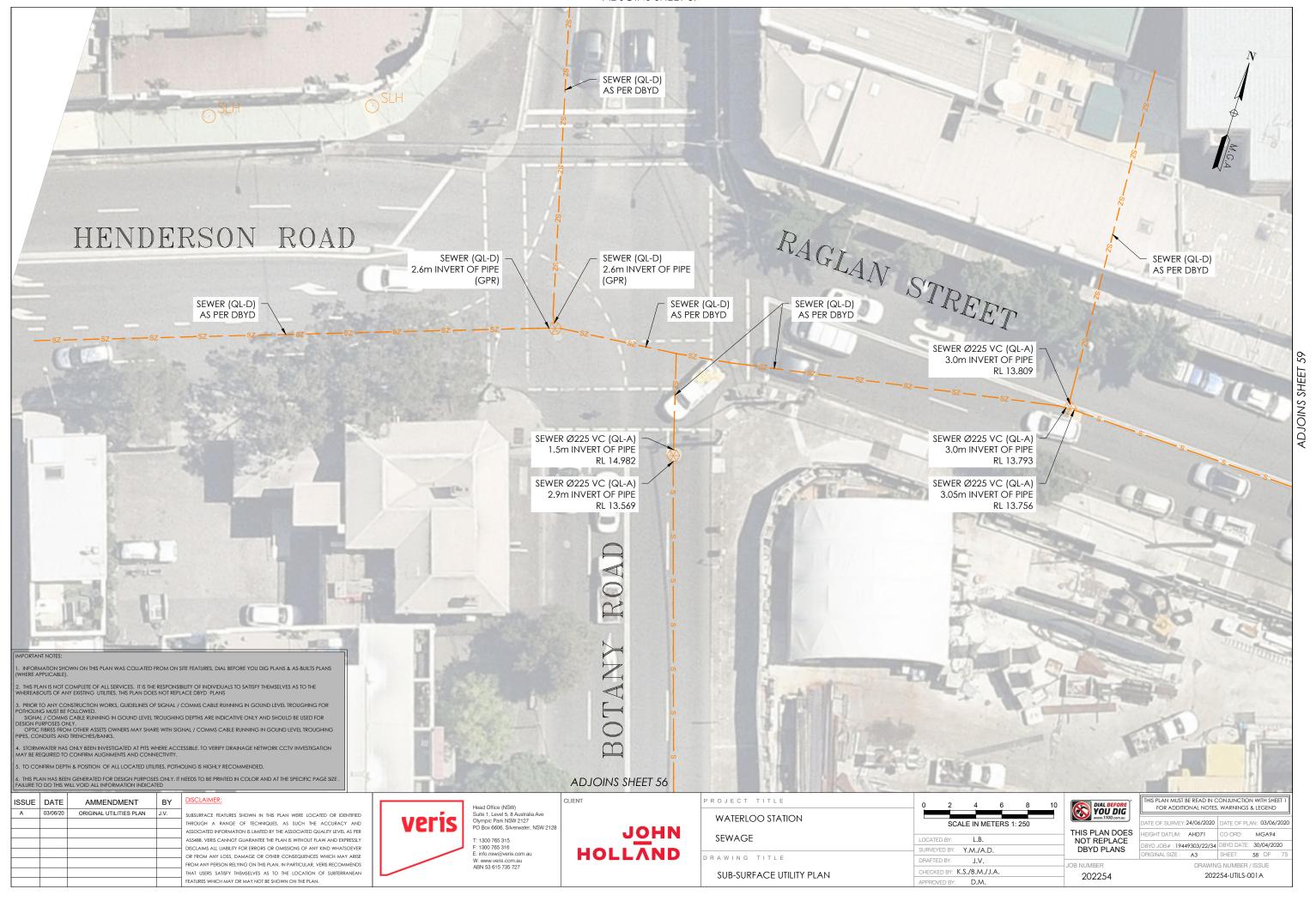


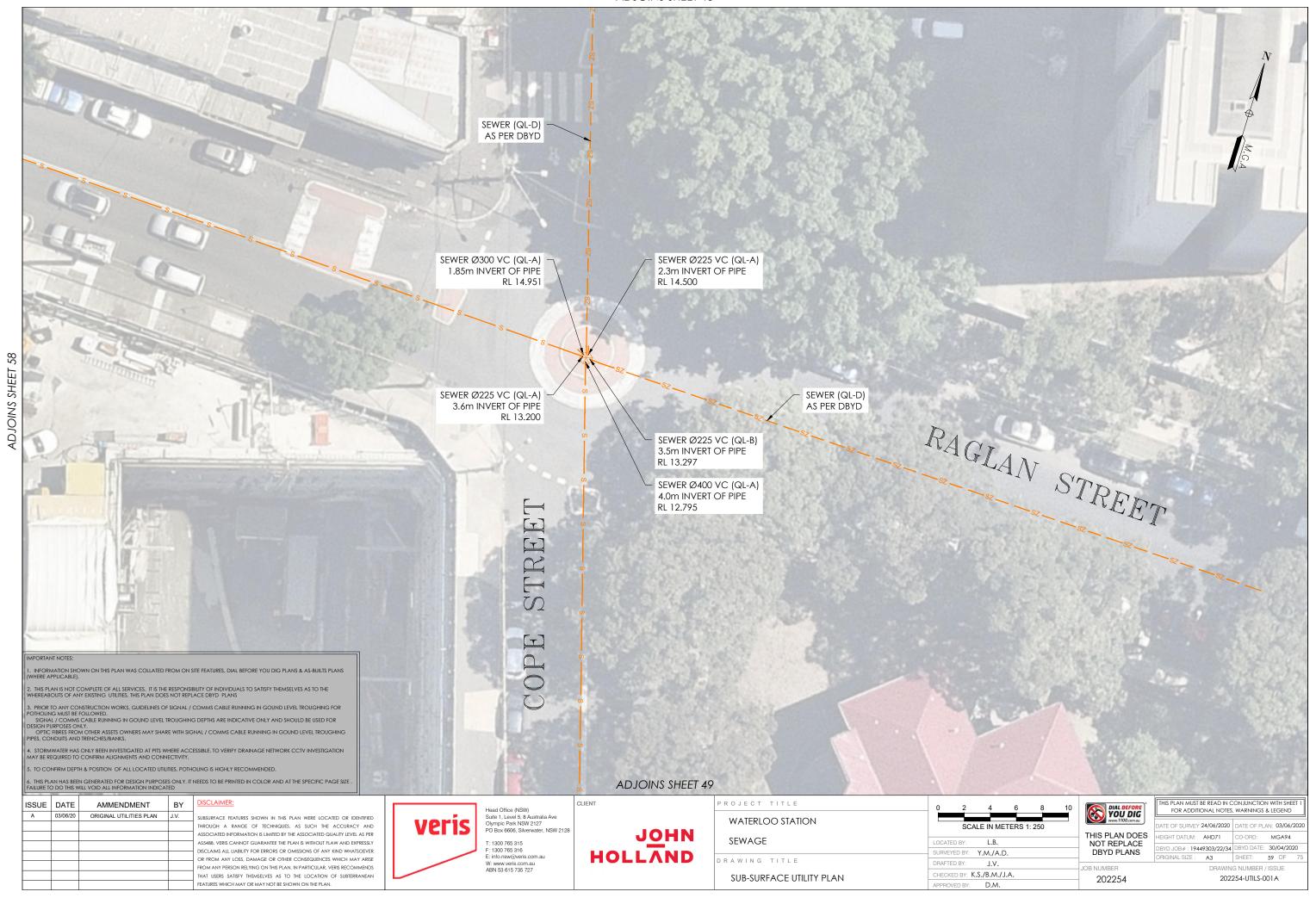


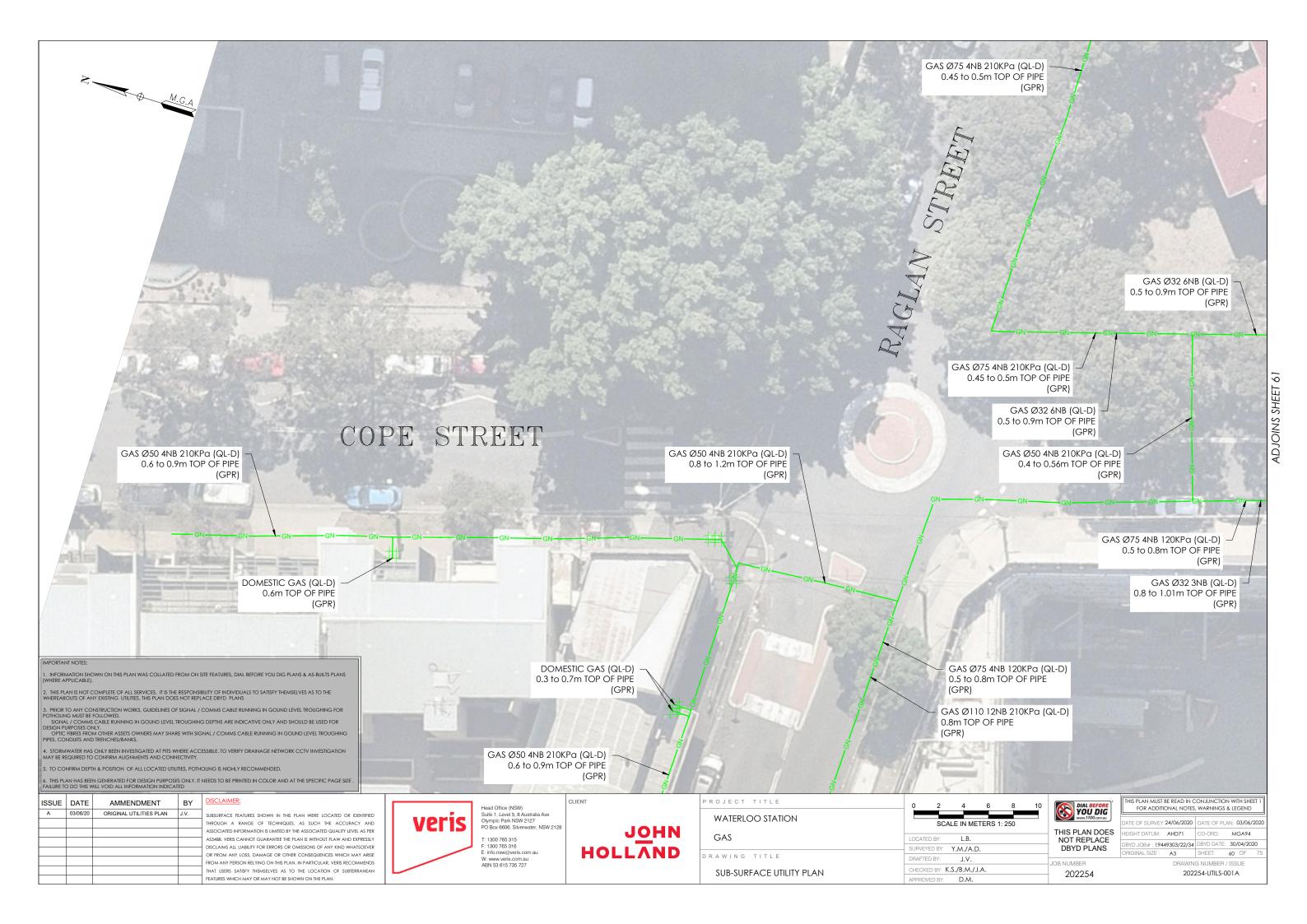


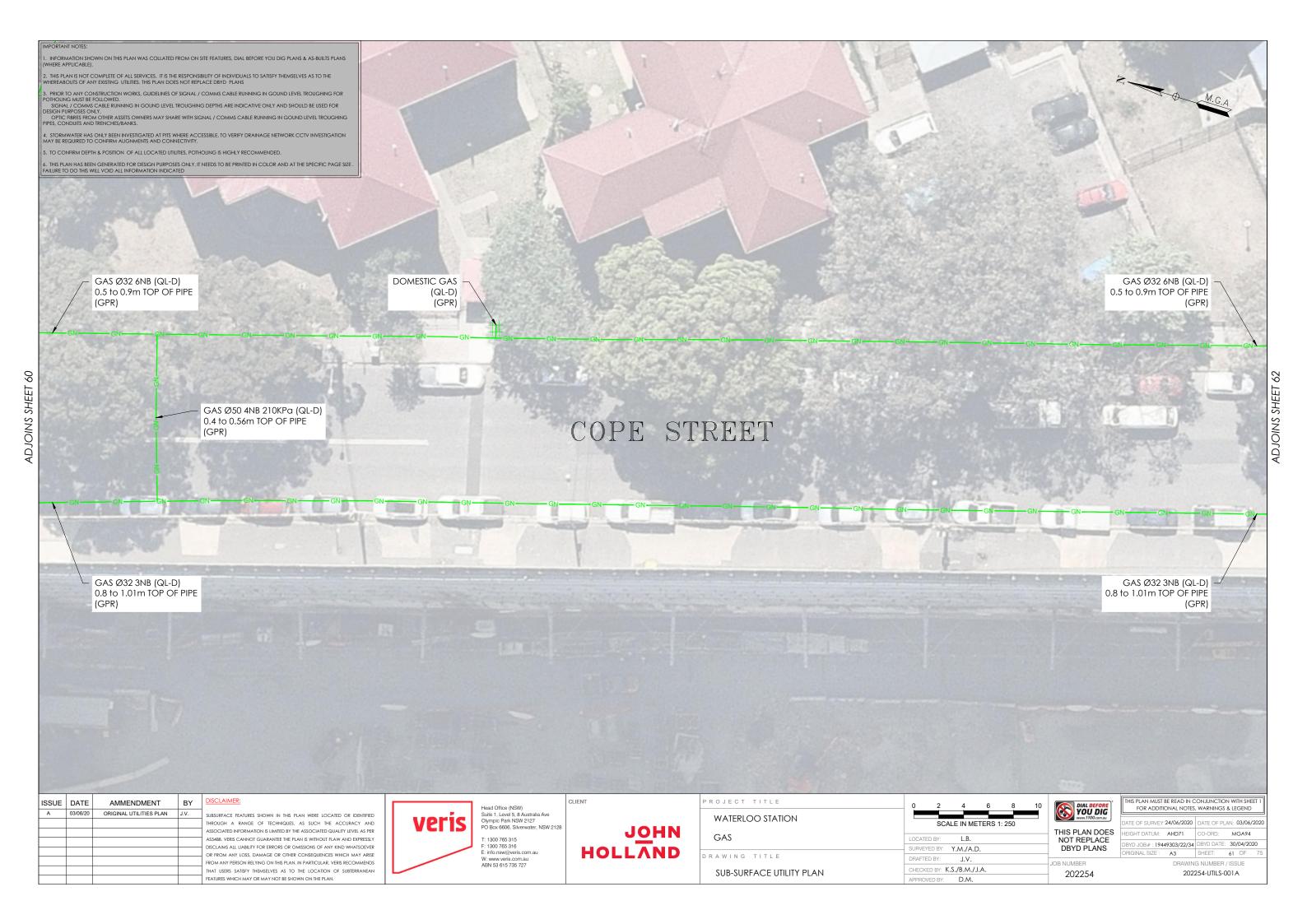


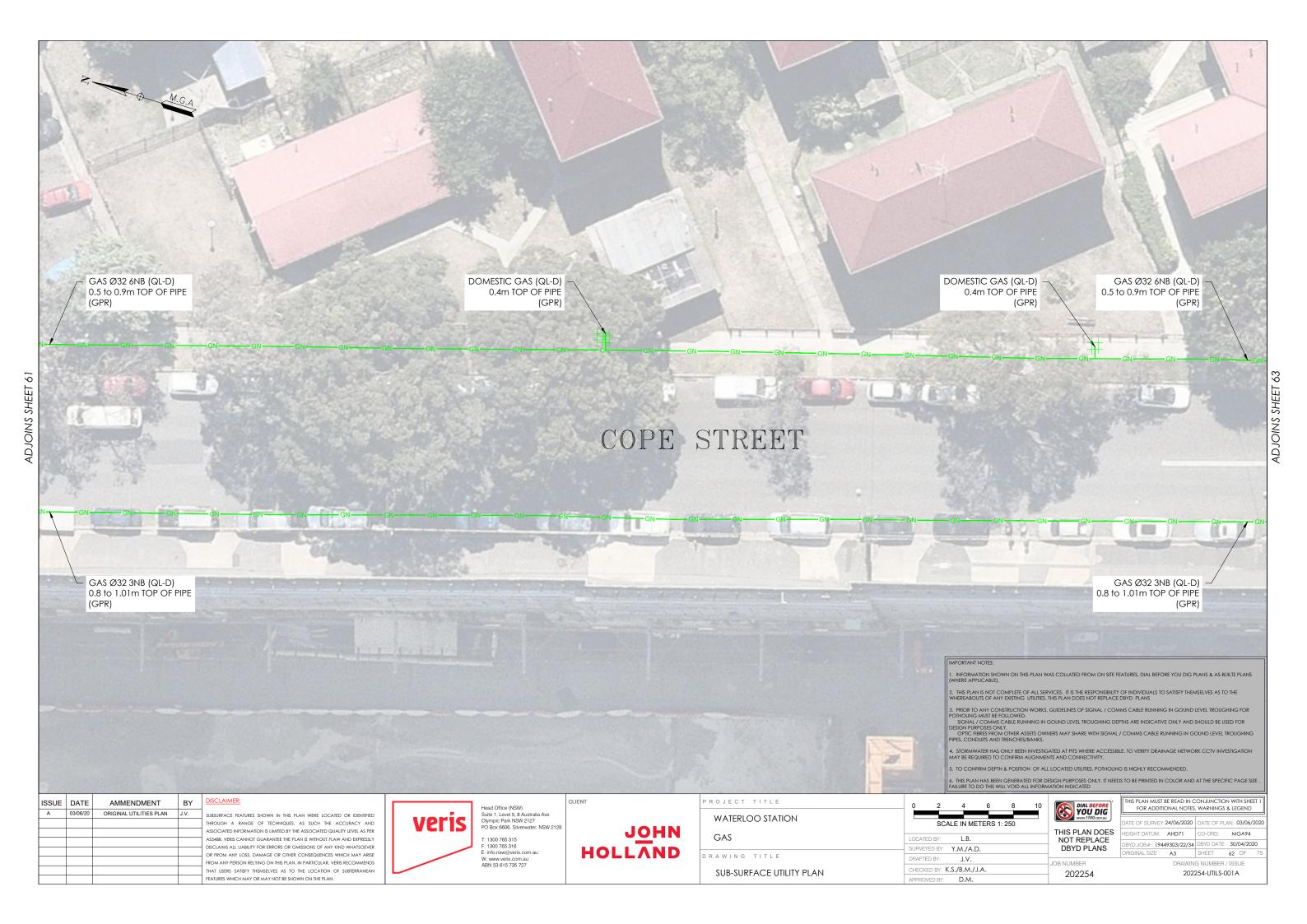


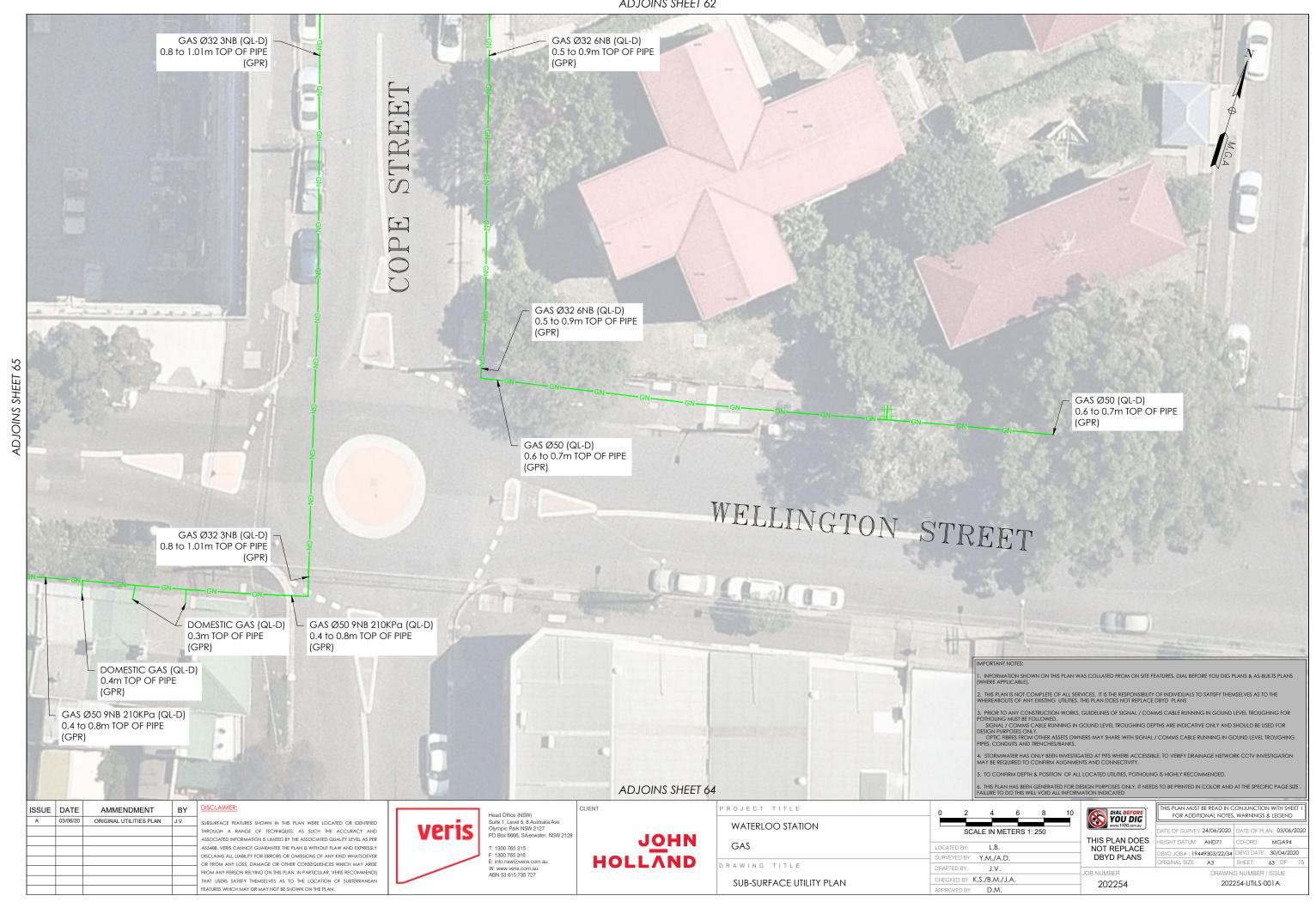














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4. STORMWATER HAS ONLY BEEN INVESTIGATED AT PITS WHERE ACCESSIBLE, TO VERIFY DRAINAGE NETWORK CCTV INVESTIGATION MAY BE REQUIRED TO CONFIRM ALIGNMENTS AND CONNECTIVITY.

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ı	5.	TO CONFIRM DEPTH & POSITION	OF ALL LOCATED UTILITIES,	, POTHOLING IS HIGHLY	RECOMMENDED.
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ROJECT TITLE	0 2 4 6 8 10
WATERLOO STATION	0 2 4 6 8 10 SCALE IN METERS 1: 250
GAS	LOCATED BY: L.B. THI
	SURVEYED BY: Y.M./A.D.
RAWING TITLE	DRAFTED BY: J.V.
SUB-SURFACE UTILITY PLAN	CHECKED BY: K.S./B.M./J.A.
JOD-JONI / CE OTILITI I LAN	APPROVED BY: D.M.



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www.1100.com.au	DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/202
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HEIGHT DATUM: AHD71	CO-ORD: MGA94		
DBYD JOB# : 19449303/22/34	DBYD DATE: 30/04/2020		
ORIGINAL SIZE: A3	SHEET: <b>64</b> OF 75		
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