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 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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2. Appendix 2 – Detailed Survey 5
3. Appendix 3 – Sub-surface Utility Plan 6

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1. Appendix 1 – Waterloo Metro Quarter Site Identification Report

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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	A	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.

Surry Hills
Suite 301, Level 3
55 Holt Street
Surry Hills NSW 2010
PO Box 1807
Strawberry Hills NSW 2012

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Office Locations
Over 20 offices
across Australia
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Veris Australia Pty Ltd
53 615 735 727

DEVELOP WITH CONFIDENCE ™

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:



M.G.A. (94) NORTH

NOTE 1 – CHURCH BOUNDARIES ARE APPROXIMATE ONLY AND ARE DEPENDENT ON FINAL SURVEY.

NOTE 2 – BEARINGS ARE ON GDA 94, MGA 56 ORIENTATION.

NOTE 3 – THE SPLAY CORNER IS DEDICATED PUBLIC ROAD, LIMITED IN HEIGHT TO THE LEVEL PLANE AT RL 21.715 AND UNLIMITED IN DEPTH. THE SUBJECT PROPERTY EXISTS ABOVE THE LEVEL PLANE OF RL 21.715.

BDY – DENOTES BOUNDARY
CP – DENOTES CONTROL POINT

TABLE OF BOUNDARY CORNER COORDINATES ON METRO CONTROL

BOUNDARY CORNER	EASTING	NORTHING
1	333511.829	6247825.542
2	333511.906	6247829.351
3	333514.230	6247832.371
4	333517.893	6247833.421
5	333574.319	6247831.242
6	333578.227	6247828.198
7	333634.770	6247636.036
8	333633.558	6247633.839
9	333574.435	6247621.340

TABLE OF CONTROL POINT COORDINATES

CP NO.	ORIGINAL POINT NO.	EASTING	NORTHING	HEIGHT	NAME
1	1	333584.479	6247841.091	16.807	CTRL–9804
2	26	333617.754	6247700.134	15.185	CTRL–9810
3	44	333647.769	6247626.612	15.214	CTRL–9811
4	200	333556.075	6247614.834	15.138	PM–59542
5	205	333638.507	6247636.846	14.584	SSM–16636
6	518	333574.421	6247621.612	15.368	CTRL–9812
7	534	333528.178	6247714.311	15.375	CTRL–9802
8	546	333507.473	6247833.269	16.621	CTRL–JP15W
9	7000	333576.552	6247833.601	16.343	STN–RSN
10	7002	333641.503	6247617.581	14.871	STN–RSN
11	7003	333579.119	6247601.851	15.41	STN–RSN
12	7004	333558.217	6247670.721	14.95	STN–RSN
13	7005	333507.875	6247834.955	16.663	STN–RSN
14	7	333570.12	6247834.946	16.327	DHW
15	516	333580.494	6247605.683	15.33	DHW
16	525	333552.335	6247681.507	14.77	DHW
17	545	333514.014	6247837.106	16.717	DHW

TABLE OF SHORT LINES

No.	BEARING	DISTANCE
1	1°09'45"	3.81
2	37°35'00"	3.81
3	74°00'10"	3.81
4	127°54'25"	4.955

TABLE OF CURVED LINES

No.	CHORD		ARC	RADIUS
5	208°52'40"	2.51	2.635	2.44

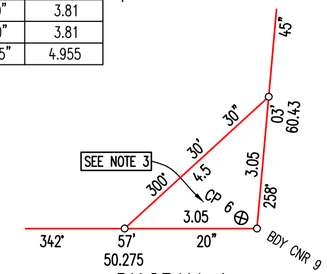
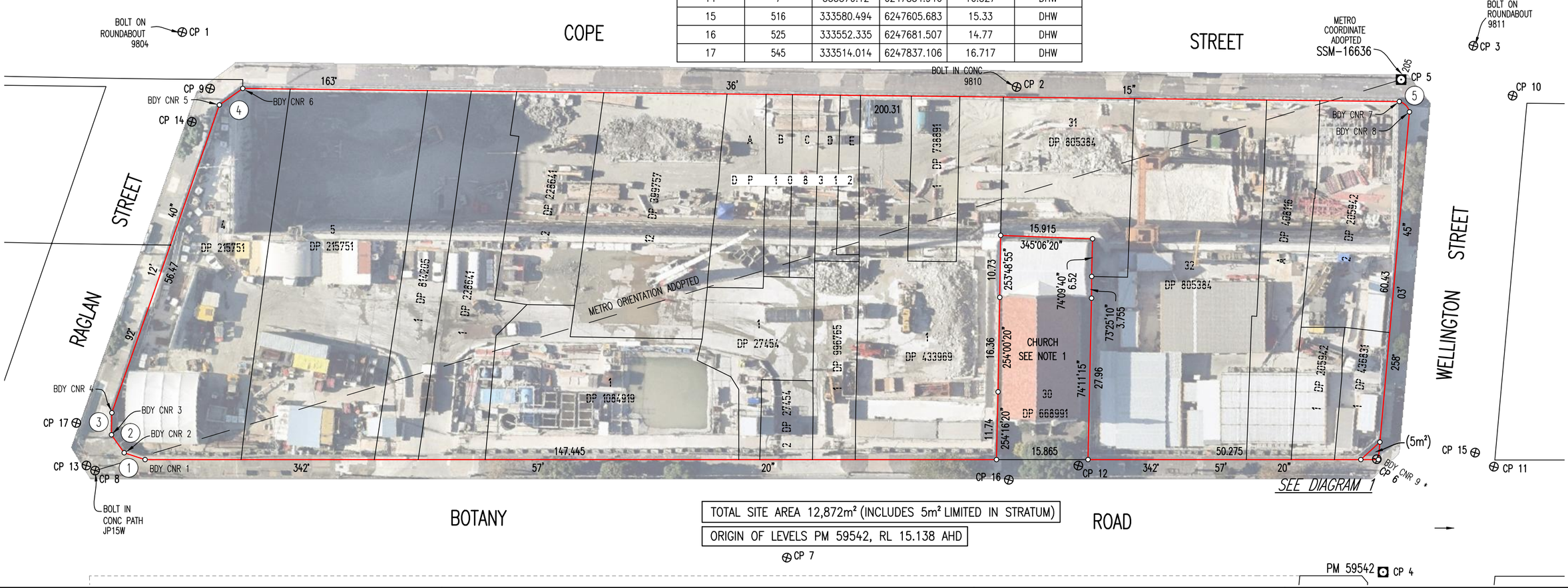


DIAGRAM 1
NOT TO SCALE



TOTAL SITE AREA 12,872m² (INCLUDES 5m² LIMITED IN STRATUM)

ORIGIN OF LEVELS PM 59542, RL 15.138 AHD

CP 7

ISSUE	DATE	AMENDMENT	BY
1	02/06/20	ORIGINAL ISSUE	AK/JJ
2	17/07/20	AMENDMENT, IMAGE ADDED	TM/JJ

veris

V□r□□ A□□□r□□□ P□□ L□d
S□□□□ 301 □L□□□□ 3□55 H□□□S□r□□□
S□rr□H□□□ NSW 2012
PO B□□ 1807
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Liability limited by a scheme approved under Professional Standards Legislation

PLAN SHOWING BOUNDARY AND CONTROL POINTS AT WATERLOO METRO STATION□ WATERLOO

CLIENT: JOHN HOLLAND

REDUCTION RATIO 1 : 500

0 5 10 15 20 25 30 35 40 45 50

LENGTHS ARE IN METRES

TITLE N□:
DATUM: A.H.D.
DATE O□ SURVEY: 07.05.2020
SURVEYOR: A□
DRA□TER: JJ

RE□:202254/ SU□N8700
ISSUE:2
ISSUE DATE:17.07.2020
SHEET SIZE: A2
SHEET 1 O□ 1 SHEETS

V:\99 MIGRATION DATA\02 NSW\SYDNEY\ACADDATA\00ALL VERIS JOBS\202001-210000\202254.01B - WATERLOO STATION\BOUNDARY AND CONTROL\202254 BDY CONTROL PLAN.DWG

M.G.A. (94) NORTH

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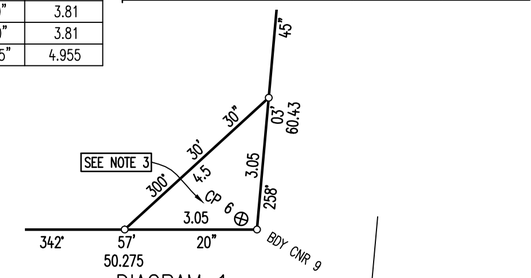
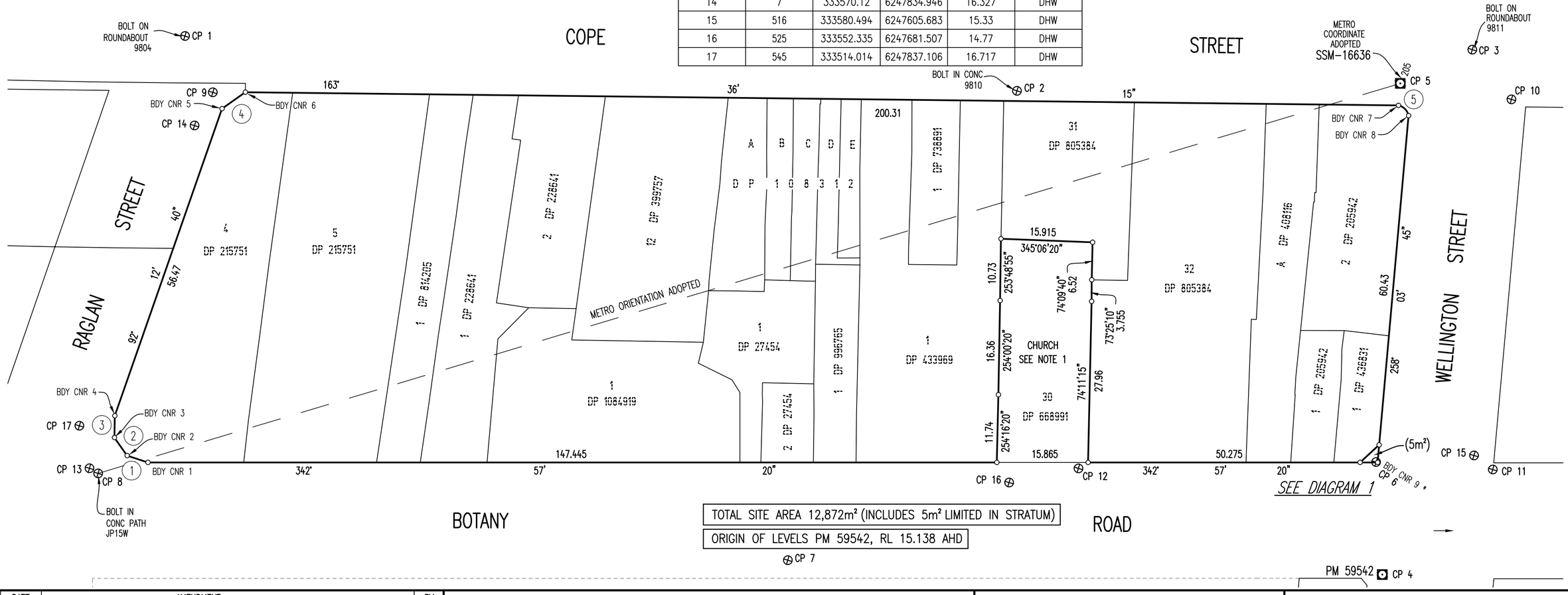


DIAGRAM 1
NOT TO SCALE



ISSUE	DATE	AMENDMENT	BY

V□ A□□r□□□ P□ L□d
S□□□ 301 □L □□□3□55 H□□S□□□□
S□rr□H□□ NSW 2012
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S□□□ □□rr□H□□ NSW 2012
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0 5 10 15 20 25 30 35 40 45 50

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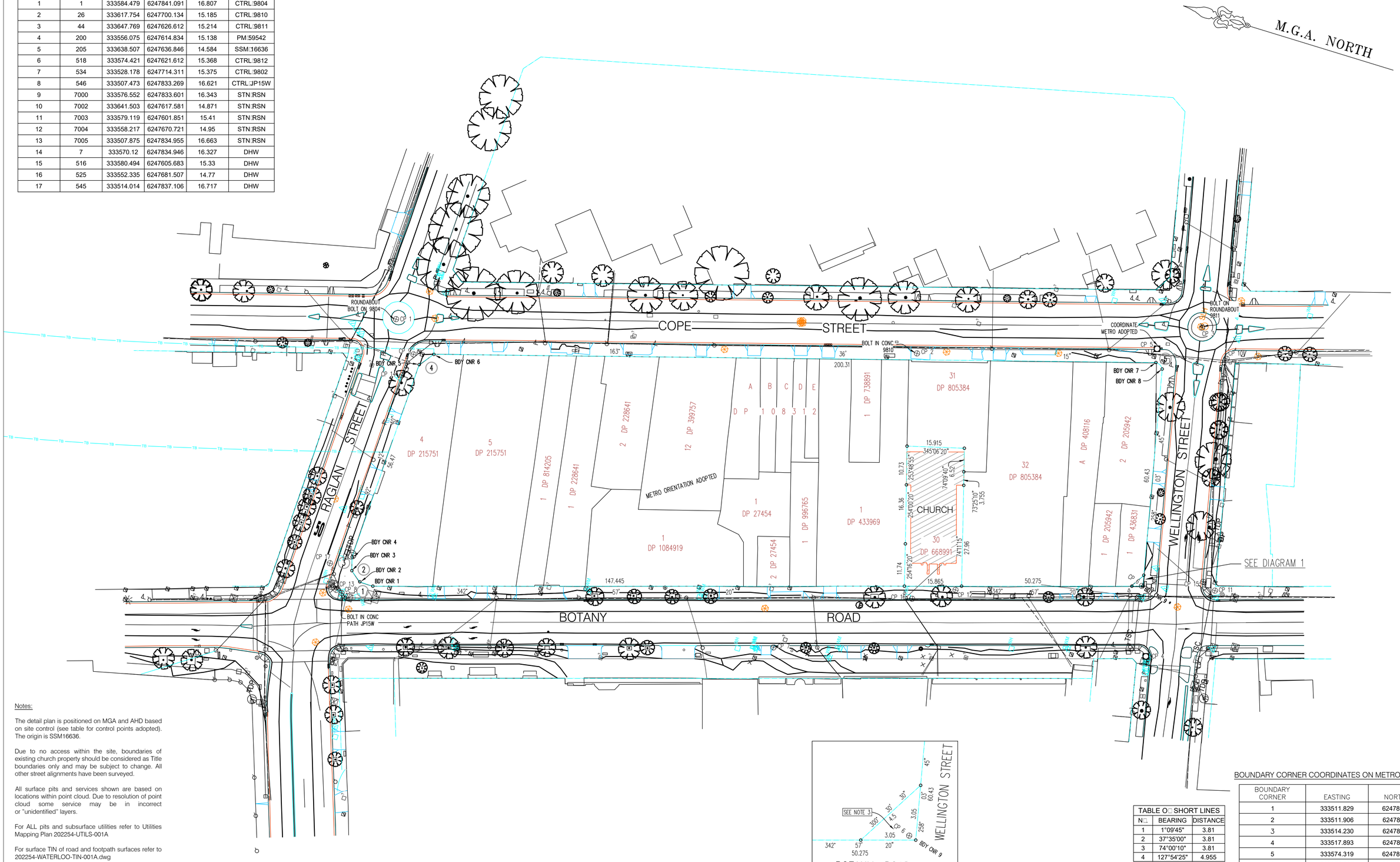
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ISSUE: 1
ISSUE DATE: 02.06.2020
SHEET SIZE: A2
SHEET 1 O□ 1 SHEETS

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2. Appendix 2 – Detailed Survey

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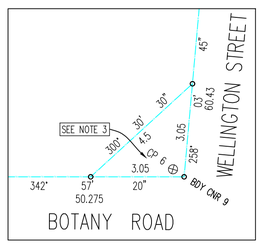


DIAGRAM 1

Notes:

The detail plan is positioned on MGA and AHD based on site control (see table for control points adopted). The origin is SSM16636.

Due to no access within the site, boundaries of existing church property should be considered as Title boundaries only and may be subject to change. All other street alignments have been surveyed.

All surface pits and services shown are based on locations within point cloud. Due to resolution of point cloud some service may be in incorrect or "unidentified" layers.

For ALL pits and subsurface utilities refer to Utilities Mapping Plan 202254-UTILS-001A

For surface TIN of road and footpath surfaces refer to 202254-WATERLOO-TIN-001A.dwg

Survey data was extracted from point cloud data obtained from laser scanner. This plan should be used in conjunction with the RECAP file 202254-DETL-001.RCP

TABLE OF SHORT LINES		
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E: info.nsw@veris.com.au
W: www.veris.com.au
ABN 53 615 735 727

Issue	Amendment	Date

LEGEND

CLIENT
JOHN HOLLAND

PROJECT
WATERLOO STATION SITE,
BOTANY ROAD, WATERLOO

DRAWING TITLE
DETAIL SURVEY

TITLE INFORMATION

Lot:	-
Plan No.:	-
Title / Folio:	-
L.G.A.:	SYDNEY
Parish:	ALEXANDRIA
County:	CUMBERLAND

QUALITY ASSURANCE

Surveyor:	BJ	
Drawn:	ME	
Checked by:	BJ	Date: 04/06/2020
Approved by:	VG	Date: 04/06/2020

COMPLETION OF QUALITY ASSURANCE IS EVIDENCE THAT THE SURVEY WORKS UNDERTAKEN AND THE DRAWING HAVE BEEN VERIFIED. QUALITY ASSURANCE IS TO BE INDICATED ON THE SURVEY PLAN. WHERE THERE IS NO QUALITY ASSURANCE ALL INFORMATION ON THIS DRAWING IS INTENDED FOR PRELIMINARY PURPOSES ONLY AS IT IS UNCHECKED

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		Date of Survey: 08/05/2020	Date of Plan: 04/06/2020
		Datum: AHD	Co-ords: MGA
		Scale: 1:500	(Original size A1)
Cad ref: 202254-DETL-001A.DWG		Sheet 1 of 1	
JOB NUMBER 202254		DRAWING NUMBER / ISSUE DETL-001 / A	

3. Appendix 3 – Sub-surface Utility Plan

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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.

National Utility Locating Contractors Association NULCA AUSTRALIA INC

DIAL BEFORE YOU DIG® CERTIFIED LOCATOR

ACCREDITED PLANT LOCATOR

OPTUS

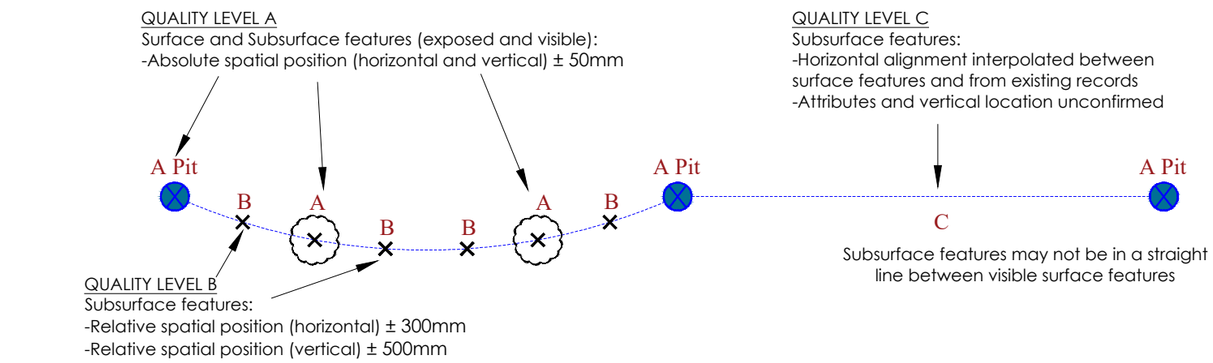
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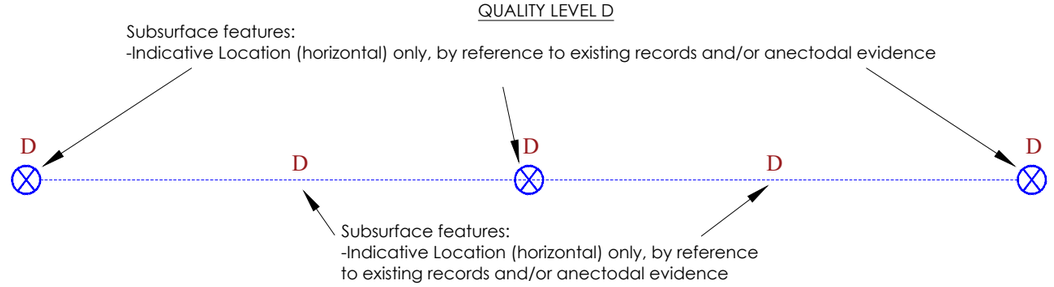
Environmental Management - ISO14001 Global-Mark.com.au®

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

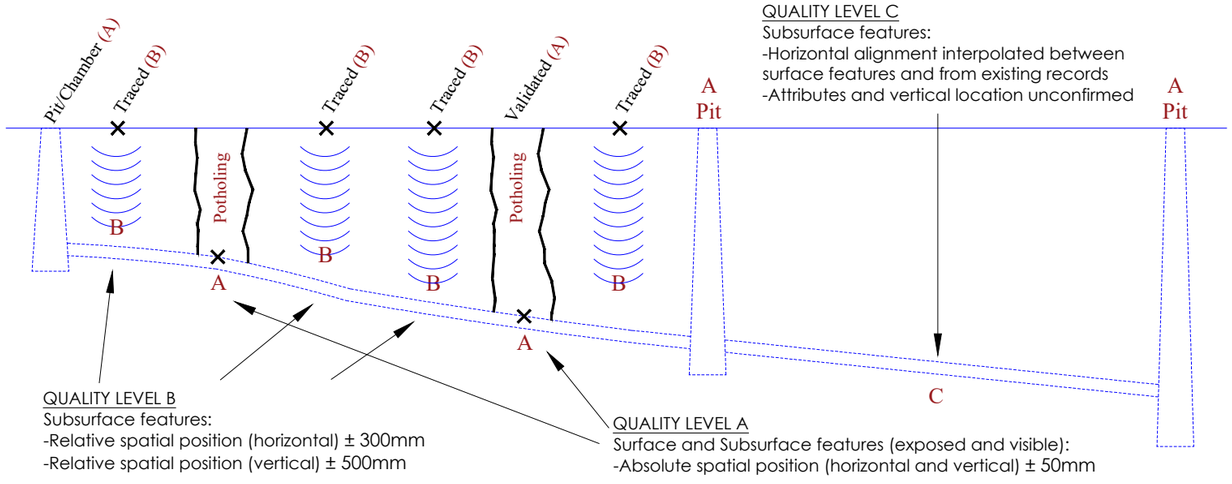
VARYING QUALITY LEVELS

(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.

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ABN 53 615 735 727

CLIENT

PROJECT TITLE
WATERLOO STATION
GENERAL NOTES AND LEGEND

DRAWING TITLE
SUB-SURFACE UTILITY PLAN

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

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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:	1 OF 75

JOB NUMBER 202254

DRAWING NUMBER / ISSUE 202254-UTILS-001A

OVERVIEW



ISSUE	DATE	AMMENDMENT	BY
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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.

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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

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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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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DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	3 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
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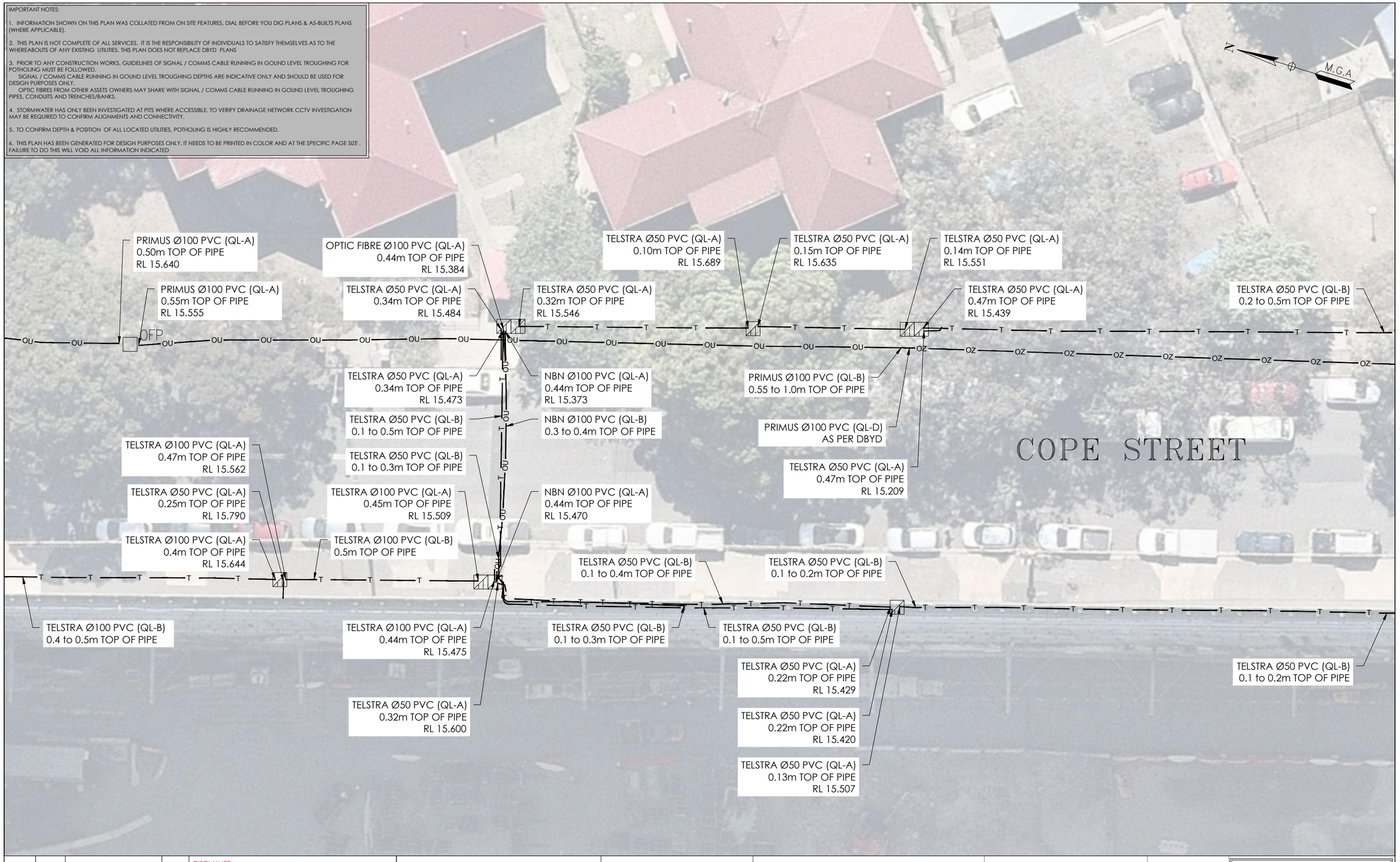
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JOHN HOLLAND

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WATERLOO STATION

TELEPHONY AND COMMS

DRAWING TITLE

SUB-SURFACE UTILITY PLAN

SCALE IN METERS 1: 250

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

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JOB NUMBER 202254

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WATERLOO STATION

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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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ADJOINS SHEET 5

ADJOINS SHEET 8

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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

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

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

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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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

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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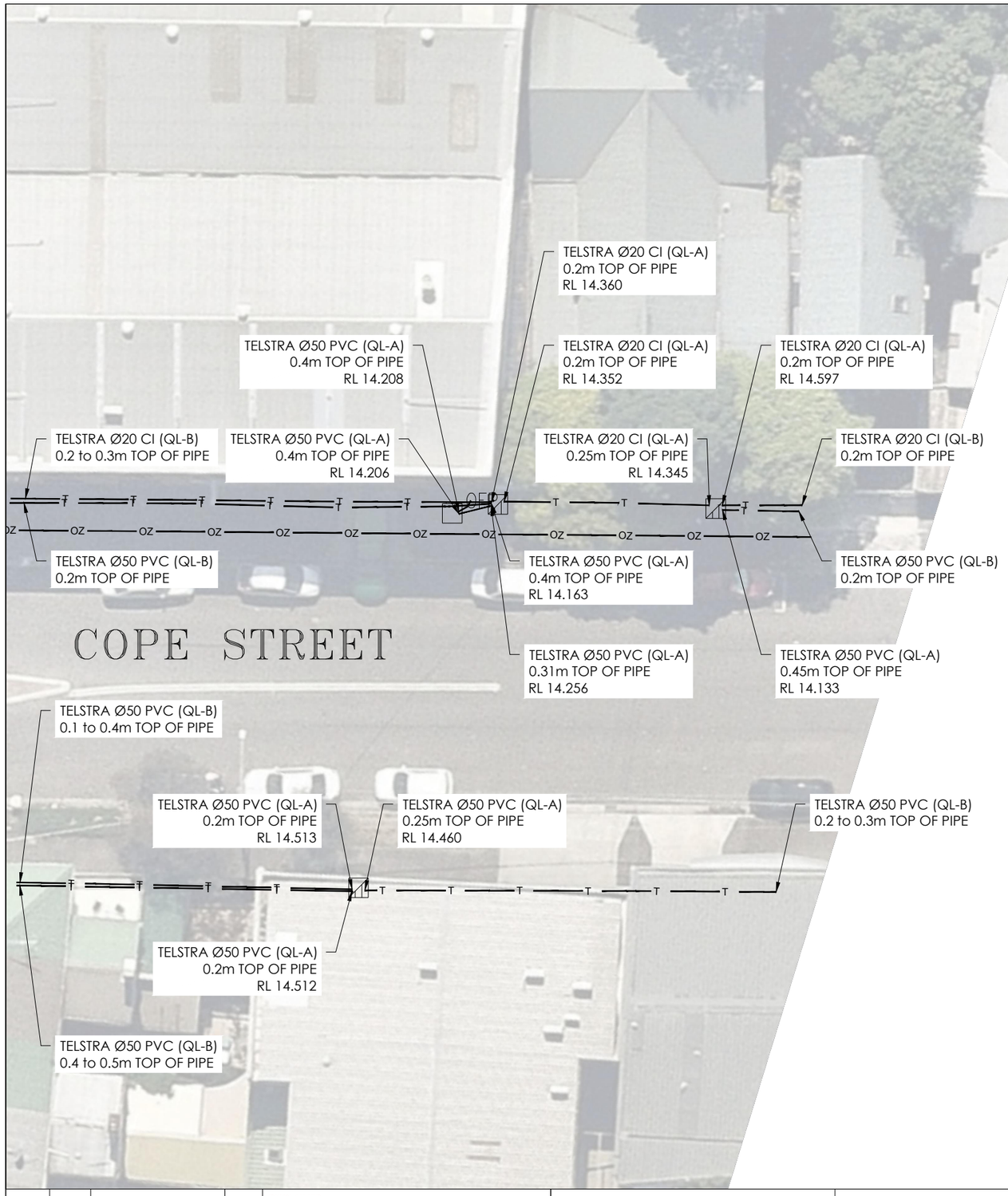
THIS PLAN DOES NOT REPLACE DBYD PLANS

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:	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
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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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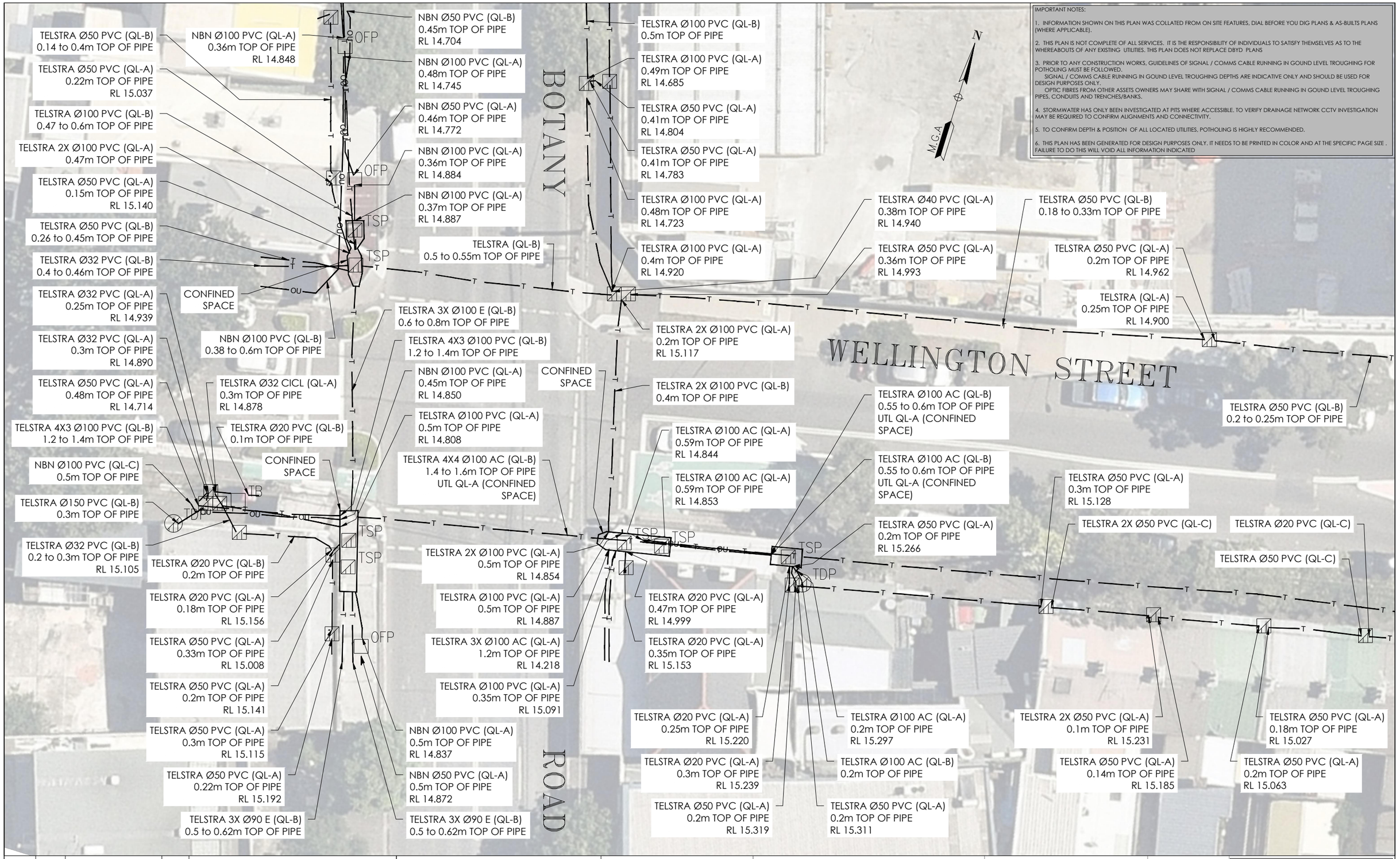
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HEIGHT DATUM:	AHD71	CO-ORD:	MGA94
DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	7 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 9



ADJOINS SHEET 6

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

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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.
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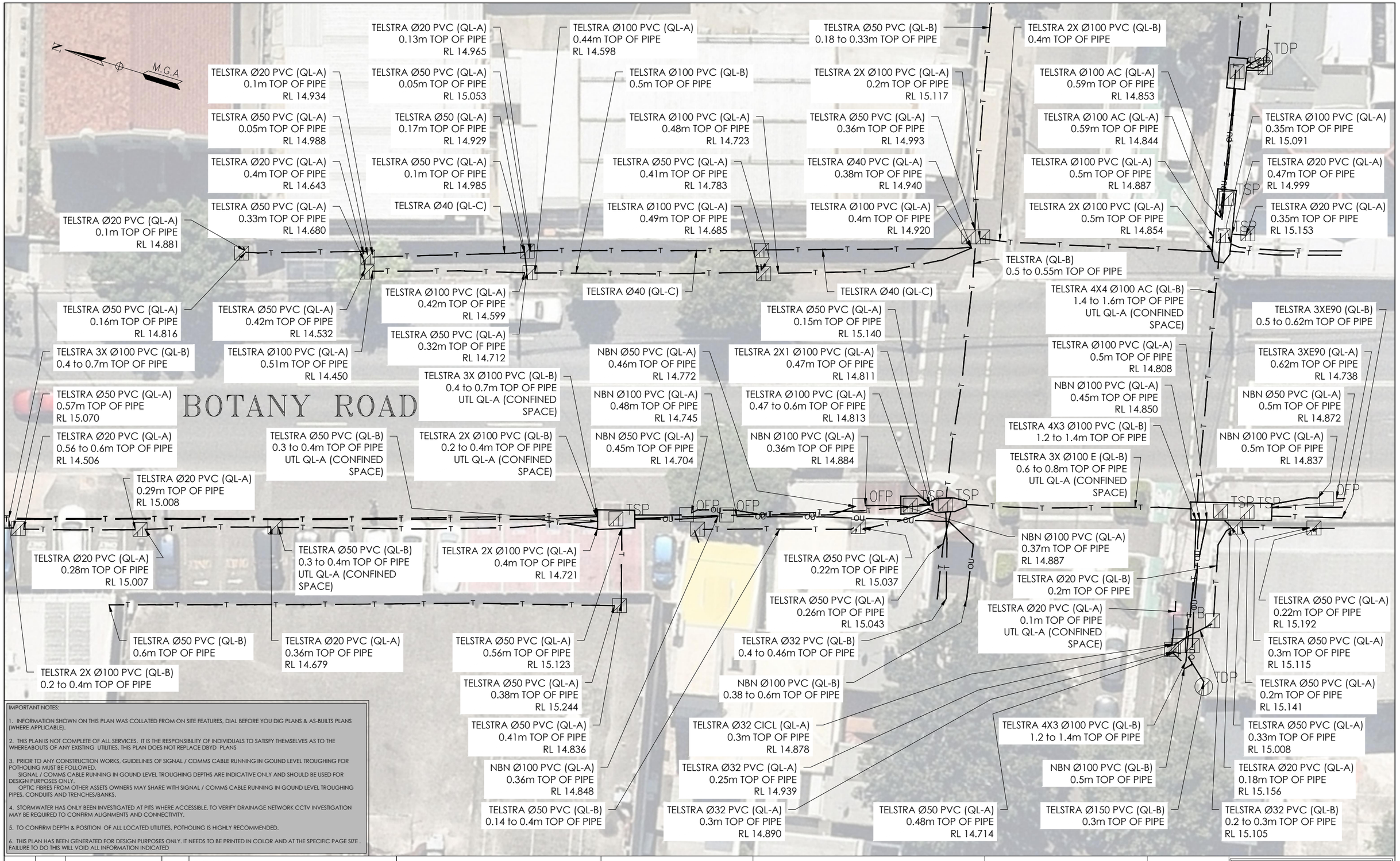
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DATE OF SURVEY:	24/06/2020	DATE OF PLAN:	03/06/2020
HEIGHT DATUM:	AHD71	CO-ORD:	MGA94
DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	8 OF 75

JOB NUMBER: 202254
DRAWING NUMBER / ISSUE: 202254-UTILS-001A

ADJOINS SHEET 8

ADJOINS SHEET 10



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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

DRAWING NUMBER / ISSUE 202254-UTILS-001A

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: 9 OF 75

ADJOINS SHEET 11

ADJOINS SHEET 9

N

M.G.A

BOTANY ROAD

TELSTRA Ø100 PVC (QL-A)
0.41m TOP OF PIPE
RL 15.304

TELSTRA Ø50 PVC (QL-A)
0.25m TOP OF PIPE
RL 15.462

TELSTRA Ø50 PVC (QL-A)
0.22m TOP OF PIPE
RL 15.496

TELSTRA Ø100 PVC (QL-A)
0.42m TOP OF PIPE
RL 15.299

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

TELSTRA Ø50 PVC (QL-A)
0.15m TOP OF PIPE
RL 15.400

TELSTRA Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 14.9431

TELSTRA Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 14.817

TELSTRA Ø50 PVC (QL-A)
0.25m TOP OF PIPE
RL 15.161

TELSTRA Ø50 PVC (QL-A)
0.13m TOP OF PIPE
RL 15.399

TELSTRA Ø20 PVC (QL-A)
0.25m TOP OF PIPE
RL 15.166

TELSTRA Ø100 PVC (QL-A)
0.45m TOP OF PIPE
RL 14.955

TELSTRA (QL-A)
0.25m TOP OF PIPE
RL 15.141

TELSTRA Ø20 PVC (QL-A)
0.3m TOP OF PIPE
RL 14.994

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 14.781

TELSTRA (QL-A)
0.3m TOP OF PIPE
RL 14.979

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

TELSTRA 3X Ø100 PVC (QL-B)
0.4 to 0.7m TOP OF PIPE

TELSTRA Ø20 PVC (QL-A)
0.28m TOP OF PIPE
RL 15.007

TELSTRA Ø20 PVC (QL-A)
0.29m TOP OF PIPE
RL 15.008

TELSTRA Ø100 PVC (QL-A)
0.3m TOP OF PIPE
RL 15.554

TELSTRA Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 15.251

TELSTRA Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 14.939

TELSTRA Ø50 PVC (QL-A)
0.28m TOP OF PIPE
RL 15.123

TELSTRA Ø20 PVC (QL-A)
0.56m TOP OF PIPE
RL 14.506

NBN Ø100 PVC (QL-B)
0.53 to 0.9m TOP OF PIPE

NBN Ø100 PVC (QL-A)
0.7m TOP OF PIPE
RL 14.854

NBN Ø20 CI (QL-A)
0.2m TOP OF PIPE
RL 15.145

TELSTRA Ø50 PVC (QL-A)
0.28m TOP OF PIPE
RL 15.277

TELSTRA Ø50 PVC (QL-A)
0.21m TOP OF PIPE
RL 15.129

TELSTRA Ø50 PVC (QL-A)
0.57m TOP OF PIPE
RL 15.070

TELSTRA 2XP100 3XEW100 Ø100 PVC (QL-B)
0.5 to 0.7m TOP OF PIPE

NBN Ø100 PVC (QL-A)
0.59m TOP OF PIPE
RL 14.973

TELSTRA Ø20 PVC (QL-A)
0.25m TOP OF PIPE
RL 15.092

TELSTRA Ø50 PVC (QL-A)
0.27m TOP OF PIPE
RL 15.266

TELSTRA Ø50 PVC (QL-A)
0.28m TOP OF PIPE
RL 15.130

TELSTRA 2X Ø100 PVC 3X Ø100 EW (QL-A)
0.64m TOP OF PIPE
RL 14.953

TELSTRA Ø50 PVC (QL-A)
0.9m TOP OF PIPE
RL 15.350

TELSTRA Ø50 PVC (QL-A)
0.23m TOP OF PIPE
RL 15.259

TELSTRA Ø20 PVC (QL-A)
0.21m TOP OF PIPE
RL 15.127

TELSTRA Ø100 PVC (QL-A)
0.36m TOP OF PIPE
RL 15.493

NBN Ø100 PVC (QL-A)
0.63m TOP OF PIPE
RL 14.965

TELSTRA Ø20 PVC (QL-A)
0.1m TOP OF PIPE
RL 15.350

TELSTRA Ø50 PVC (QL-A)
0.25m TOP OF PIPE
RL 15.370

TELSTRA Ø50 PVC (QL-B)
0.64m TOP OF PIPE

TELSTRA Ø50 PVC (QL-B)
0.6m TOP OF PIPE
EOT

TELSTRA Ø100 PVC (QL-B)
0.54m TOP OF PIPE

NBN Ø20 CI (QL-A)
0.15m TOP OF PIPE
RL 15.457

TELSTRA Ø20 PVC (QL-B)
0.6m TOP OF PIPE

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

TELSTRA Ø100 PVC (QL-A)
0.5m TOP OF PIPE
RL 15.354

TELSTRA 2X1 Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 15.015

OU

TC

OFP

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

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

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

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

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

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

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

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

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

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

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)
0.42m TOP OF PIPE
RL 15.000

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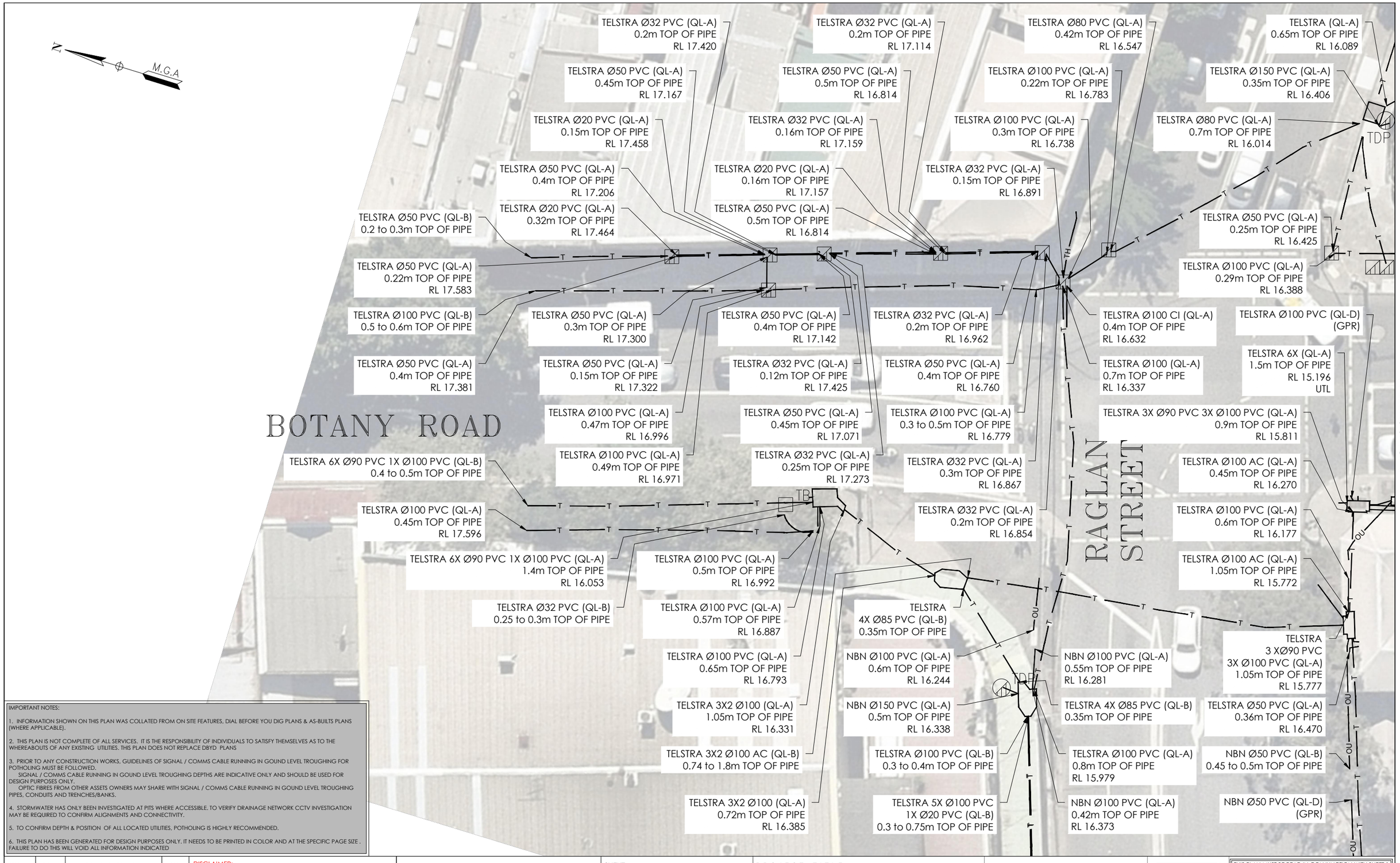
THIS PLAN MUST BE READ IN CONJUNCTION WITH SHEET 1 FOR ADDITIONAL NOTES, WARNINGS & LEGEND

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: 11 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 13



ADJOINS SHEET 11

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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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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

NBN Ø100 PVC (QL-A)
0.6m TOP OF PIPE
RL 16.244

NBN Ø150 PVC (QL-A)
0.5m TOP OF PIPE
RL 16.338

TELSTRA 4X Ø85 PVC (QL-A)
0.35m TOP OF PIPE
RL 16.669

TELSTRA 3X Ø100 AC (QL-A)
0.72m TOP OF PIPE
RL 16.385

TELSTRA 3X2 Ø100 AC (QL-A)
0.74 TOP OF PIPE
RL 16.240

TDP

TELSTRA Ø100 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.405

TELSTRA 5X Ø100 PVC 1X Ø20 PVC (QL-A)
0.75m TOP OF PIPE
RL 16.053

NBN Ø100 PVC (QL-A)
0.42m TOP OF PIPE
RL 16.373

TELSTRA Ø100 PVC (QL-A)
0.8m TOP OF PIPE
RL 15.979

NBN Ø100 PVC (QL-A)
0.55m TOP OF PIPE
RL 16.281

TELSTRA 4XØ85 (QL-A)
0.35m TOP OF PIPE
RL 16.477

TELSTRA Ø100 PVC (QL-D)
(GPR)

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

TELSTRA Ø100 AC (QL-A)
0.45m TOP OF PIPE
RL 16.270

NBN Ø50 PVC (QL-B)
0.45 to 0.5m TOP OF PIPE

NBN Ø50 PVC (QL-D)
(GPR)

TELSTRA 3X Ø90 PVC 3X Ø100 PVC (QL-A)
0.9m TOP OF PIPE
RL 15.811

NBN Ø50 PVC (QL-B)
0.3m TOP OF PIPE

NBN Ø50 PVC (QL-A)
0.43m TOP OF PIPE
RL 16.409

TELSTRA 2X Ø100 PVC (QL-A)
0.65m TOP OF PIPE
RL 16.154

TELSTRA Ø50 PVC (QL-A)
0.36m TOP OF PIPE
RL 16.470

TELSTRA Ø100 AC (QL-A)
1.05m TOP OF PIPE
RL 15.772

TELSTRA 3X Ø90 PVC 3X Ø100 PVC (QL-A)
1.05m TOP OF PIPE
RL 15.777

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

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

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

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

BOTANY ROAD

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

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

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

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

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

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

TELSTRA Ø100 PVC (QL-A)
0.3 to 0.5m TOP OF PIPE
RL 16.779

TELSTRA Ø100 CI (QL-A)
0.4m TOP OF PIPE
RL 16.632

TELSTRA Ø100 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.738

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

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

RAGLAN STREET

TELSTRA Ø32 PVC (QL-A)
0.16m TOP OF PIPE
RL 17.159

TELSTRA Ø32 PVC (QL-A)
0.2m TOP OF PIPE
RL 17.114

TELSTRA Ø50 PVC (QL-A)
0.4m TOP OF PIPE
RL 16.760

TELSTRA Ø32 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.867

TELSTRA Ø32 PVC (QL-A)
0.2m TOP OF PIPE
RL 16.854

TELSTRA Ø100 PVC (QL-A)
0.22m TOP OF PIPE
RL 16.783

TELSTRA Ø80 PVC (QL-A)
0.42m TOP OF PIPE
RL 16.547

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

TELSTRA Ø150 PVC (QL-A)
0.35m TOP OF PIPE
RL 16.406

TELSTRA (QL-A)
0.65m TOP OF PIPE
RL 16.089

TDP

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

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

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

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

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

TELSTRA Ø20 PVC (QL-A)
0.19m TOP OF PIPE
RL 16.696

TELSTRA Ø20 PVC (QL-A)
0.15m TOP OF PIPE
RL 16.731

TELSTRA Ø20 PVC (QL-A)
0.15m TOP OF PIPE
RL 16.745

TELSTRA Ø50 PVC (QL-A)
0.3m TOP OF PIPE
RL 16.582

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

UNABLE TO ACCESS PIT

TELSTRA Ø50 (QL-A)
0.25m TOP OF PIPE
RL 16.330

TELSTRA (QL-B)
0.2 to 0.65m TOP OF PIPE

TELSTRA (QL-B)
0.6m TOP OF PIPE

TELSTRA Ø100 (QL-A)
0.5m TOP OF PIPE
RL 16.082

N

MGA

ADJOINS SHEET 11

ADJOINS SHEET 14

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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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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

W.C.A

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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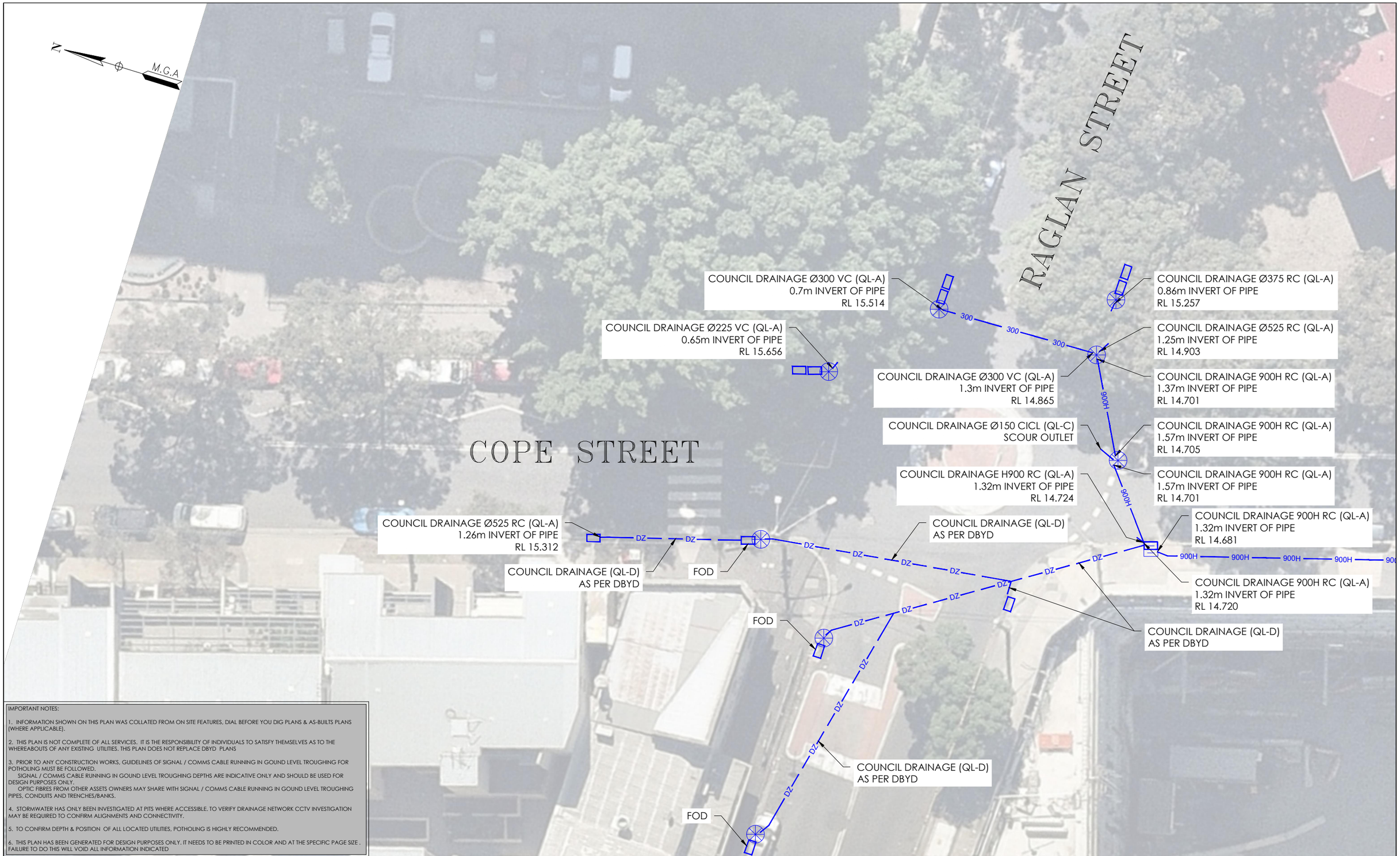
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DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB# : 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE : A3	SHEET: 14 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A



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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

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.

DIAL BEFORE YOU DIG www.1100.com.au

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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:	15 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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N 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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HEIGHT DATUM:	AHD71	CO-ORD:	MGA94
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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COPE STREET

WELLINGTON STREET

N

MGA

1.05H

COUNCIL DRAINAGE (QL-D)
AS PER DBYD

FOD

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

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

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

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

DZ

COUNCIL DRAINAGE (QL-D)
AS PER DBYD

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

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

COUNCIL DRAINAGE (QL-D)
AS PER DBYD

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

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

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

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

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

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

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
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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
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ADJOINS SHEET 18



N
M.G.A

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WATERLOO STATION

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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:	19 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
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ADJOINS SHEET 21



ADJOINS SHEET 18

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SUB-SURFACE UTILITY PLAN

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SURVEYED BY:	Y.M./A.D.
DRAFTED BY:	J.V.
CHECKED BY:	K.S./B.M./J.A.
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JOB NUMBER
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ADJOINS SHEET 22

ADJOINS SHEET 20

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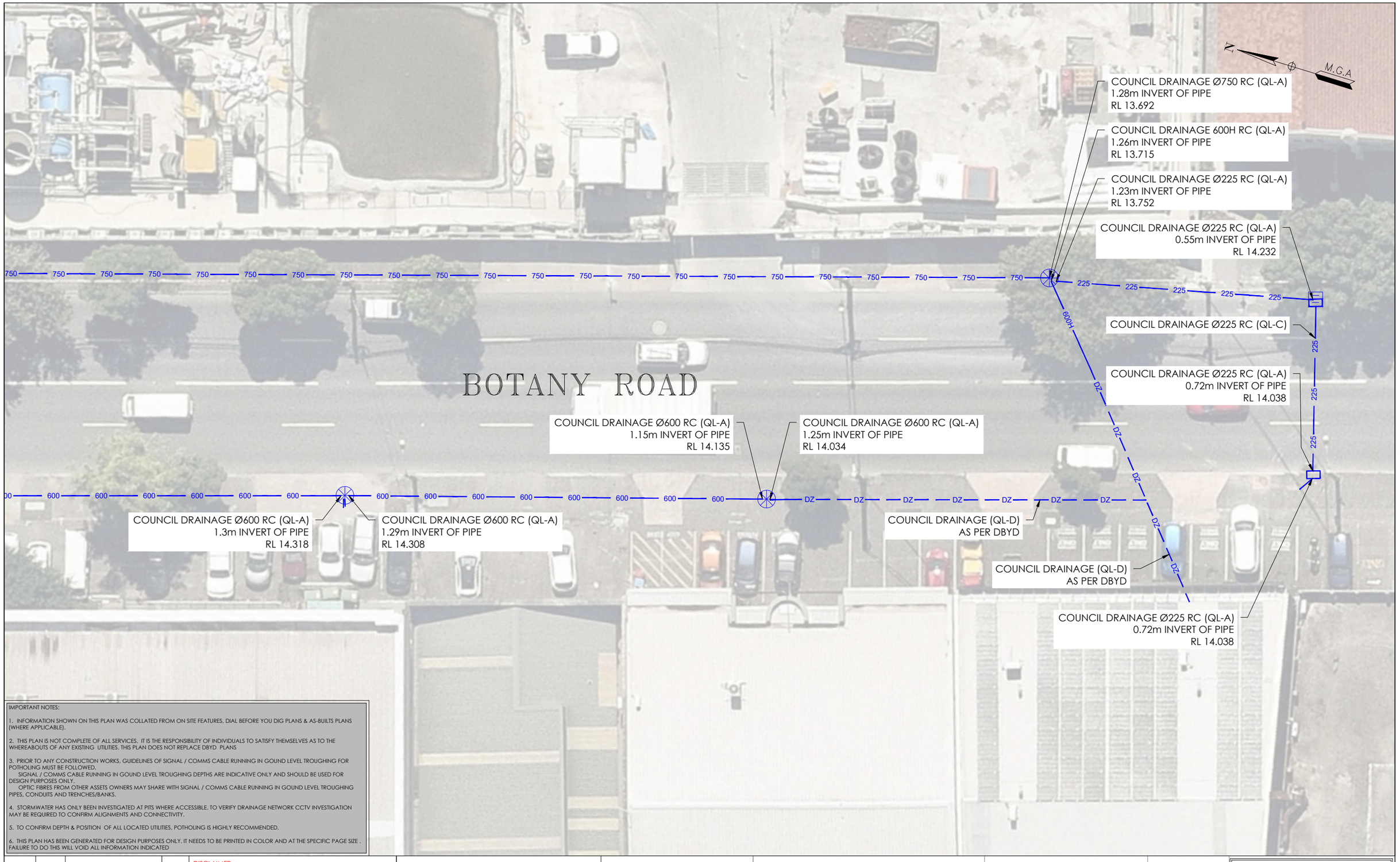
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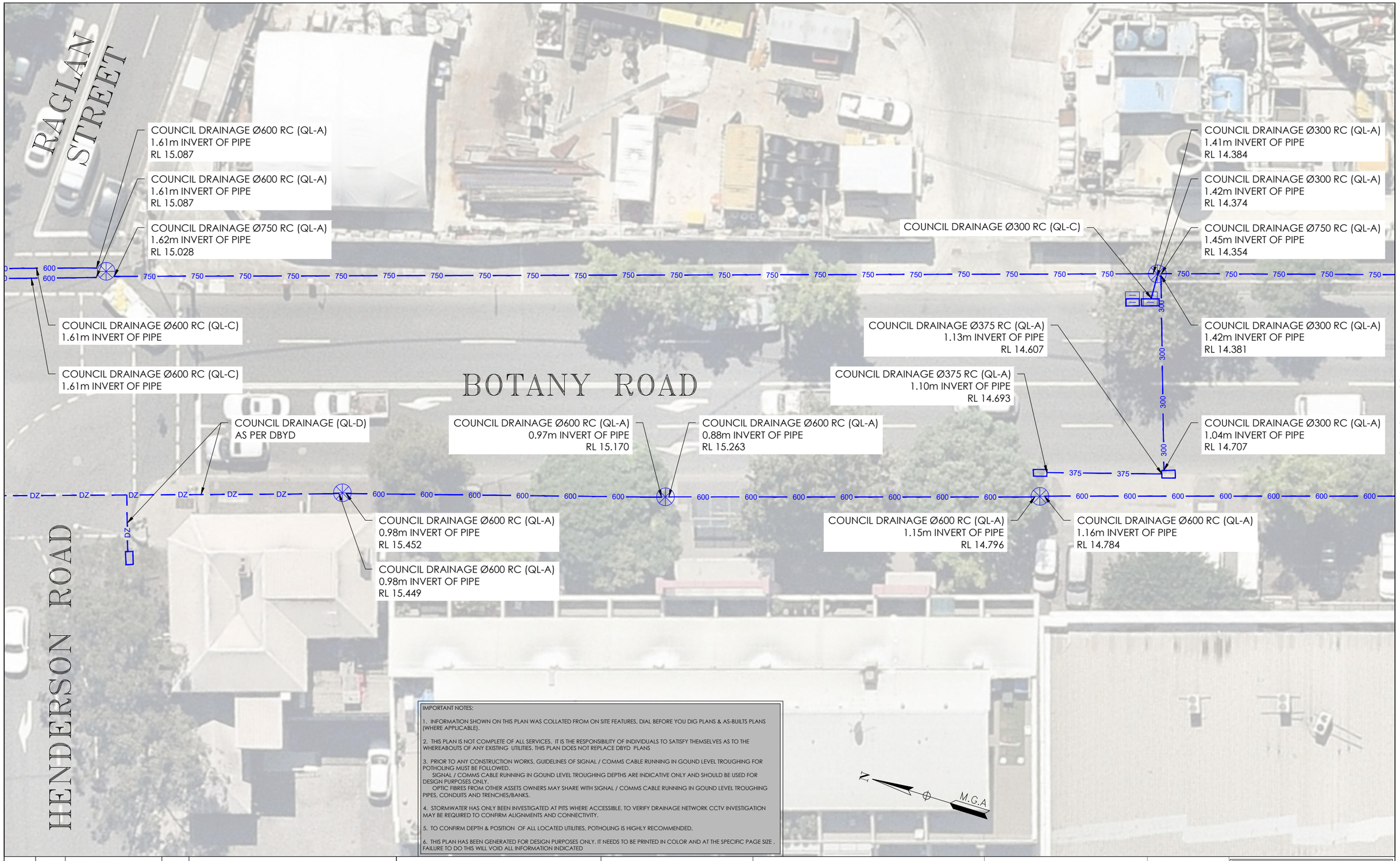
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ORIGINAL SIZE :	A3	SHEET:	21 OF 75

DRAWING NUMBER / ISSUE
202254-UTILS-001A


N
M.G.A
BOTANY ROAD
750 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750 750
225 225 225 225 225
600H
DZ DZ DZ



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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

DRAINAGE

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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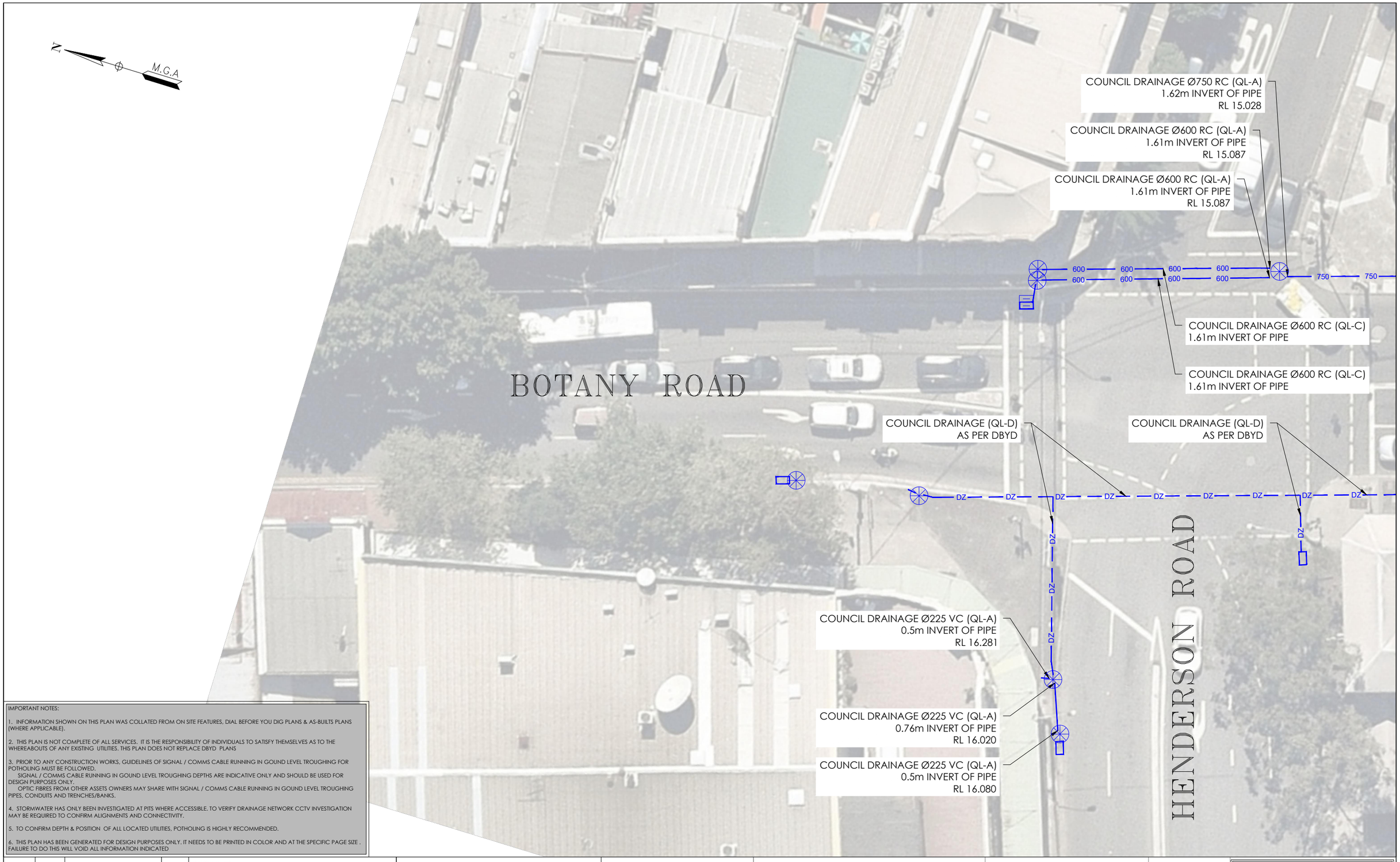
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DATE OF SURVEY:	24/06/2020	DATE OF PLAN:	03/06/2020
HEIGHT DATUM:	AHD71	CO-ORD:	MGA94
DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	23 OF 75

JOB NUMBER 202254

DRAWING NUMBER / ISSUE 202254-UTILS-001A



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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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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:	24 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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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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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:	25 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

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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

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
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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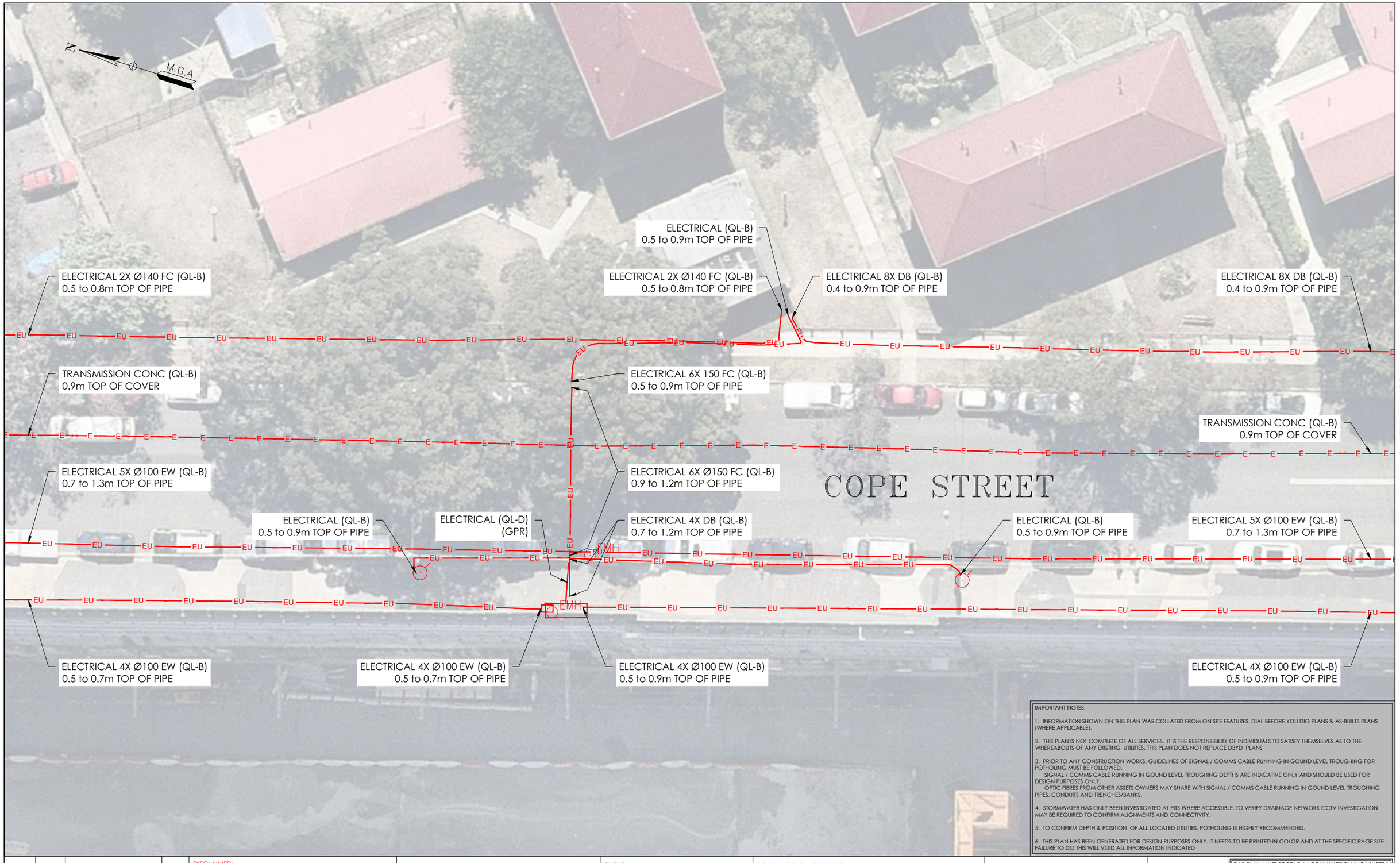
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DATE OF SURVEY:	24/06/2020	DATE OF PLAN:	03/06/2020
HEIGHT DATUM:	AHD71	CO-ORD:	MGA94
DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	26 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A



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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.
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DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	27 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 27

ADJOINS SHEET 29

COPE STREET

WELLINGTON STREET

ELECTRICAL 4X Ø100 EW (QL-B)
0.5 to 0.9m TOP OF PIPE

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

ELECTRICAL 4X Ø100 EW (QL-B)
0.8 to 1.7m TOP OF PIPE

ELECTRICAL 4X Ø100 EW (QL-B)
0.5 to 0.9m TOP OF PIPE

ELECTRICAL 9X Ø100 EW (QL-B)
0.4 to 0.8m TOP OF PIPE

ELECTRICAL 9X Ø100 EW (QL-B)
0.4 to 0.8m TOP OF PIPE

ELECTRICAL Ø100 (QL-A)
1.6m TOP OF PIPE
RL 13.314

ELECTRICAL 5X Ø100 EW (QL-D)
(GPR)

TRANSMISSION CONC (QL-B)
0.9m TOP OF COVER

TRANSMISSION 6X Ø150 PVC 3X Ø63 PVC 2X Ø32 PVC (QL-B)
1.01 to 1.9m TOP OF PIPE

TRANSMISSION 4X DB (QL-B)
1.2 to 1.7m TOP OF PIPE

ELECTRICAL 1X Ø125 PVC 8X DB (QL-D)
0.8 to 1.6m TOP OF PIPE
(GPR)

ELECTRICAL 4X Ø150 FC (QL-B)
0.3 to 1.01m TOP OF PIPE

ELECTRICAL 8X DB (QL-B)
0.4 to 0.9m TOP OF PIPE

TRANSMISSION CONC (QL-B)
0.9m TOP OF COVER

ELECTRICAL Ø20 PVC (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL Ø50 PVC (QL-C)
0.8m TOP OF PIPE

ELECTRICAL Ø20 PVC (QL-C)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL Ø50 PVC (QL-C)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL 6XP150 3XP63 2XP32 Ø150 PVC (QL-B)
1.01 to 1.9m TOP OF PIPE

TRANSMISSION 6X Ø150 PVC (QL-B)
1.2m TOP OF PIPE

ELECTRICAL 4X Ø150 FC (QL-B)
0.4 to 0.9m TOP OF PIPE

ELECTRICAL (QL-B)
0.5m TOP OF PIPE

ELECTRICAL 4X DB (QL-B)
1.2m TOP OF PIPE

ELECTRICAL Ø100 (QL-A)
2.1m TOP OF PIPE
RL 12.776

ELECTRICAL Ø100 EW (QL-A)
1.68m TOP OF PIPE
RL 13.183

ELECTRICAL 1X Ø100 EW (QL-D)
EOT (GPR)

ELECTRICAL 4X Ø150 FC (QL-B)
0.3 to 1.01m TOP OF PIPE

ELECTRICAL Ø100 EW (QL-D)
EOT (GPR)

ELECTRICAL Ø50 PVC (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL Ø20 PVC (QL-A)
0.6m TOP OF PIPE
RL 14.361

ELECTRICAL Ø50 PVC (QL-A)
0.8m TOP OF PIPE
RL 14.158

ELECTRICAL Ø50 PVC (QL-A)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL Ø50 PVC (QL-B)
0.7m TOP OF PIPE

ELECTRICAL Ø32 PVC (QL-A)
0.7m TOP OF PIPE
RL 14.308

ELECTRICAL Ø50 PVC (QL-A)
0.9m TOP OF PIPE
RL 14.109

ELECTRICAL Ø50 PVC (QL-A)
0.9m TOP OF PIPE
RL 14.109

ELECTRICAL 4X Ø150 PVC (QL-B)
1.2m TOP OF PIPE

ELECTRICAL Ø150 PVC (QL-B)
1.2m TOP OF PIPE

ELECTRICAL 4X DB (QL-B)
1.2m TOP OF PIPE

ELECTRICAL 4X DB (QL-B)
0.8 to 1.2m TOP OF PIPE

ELECTRICAL 4X DB (QL-B)
1.2m TOP OF PIPE

ELECTRICAL 1X 125 PVC 8 DB (QL-D)
0.8 to 1.6m TOP OF PIPE
(GPR)

EMH

N

MGA

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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
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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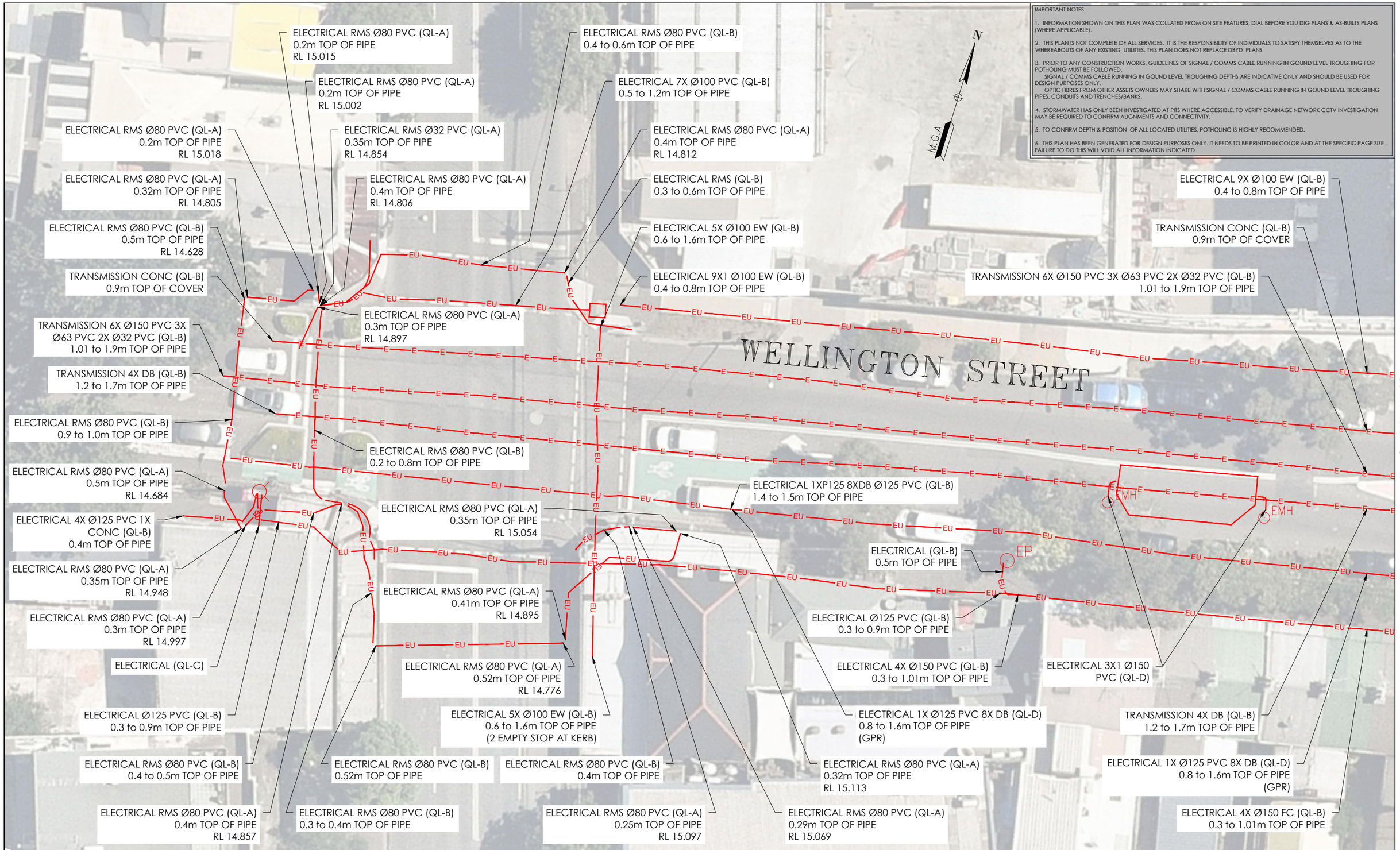
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DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB# : 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE : A3	SHEET: 28 OF 75

JOB NUMBER: 202254

DRAWING NUMBER / ISSUE: 202254-UTILS-001A

ADJOINS SHEET 30



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WATERLOO STATION

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DRAWING TITLE

SUB-SURFACE UTILITY PLAN

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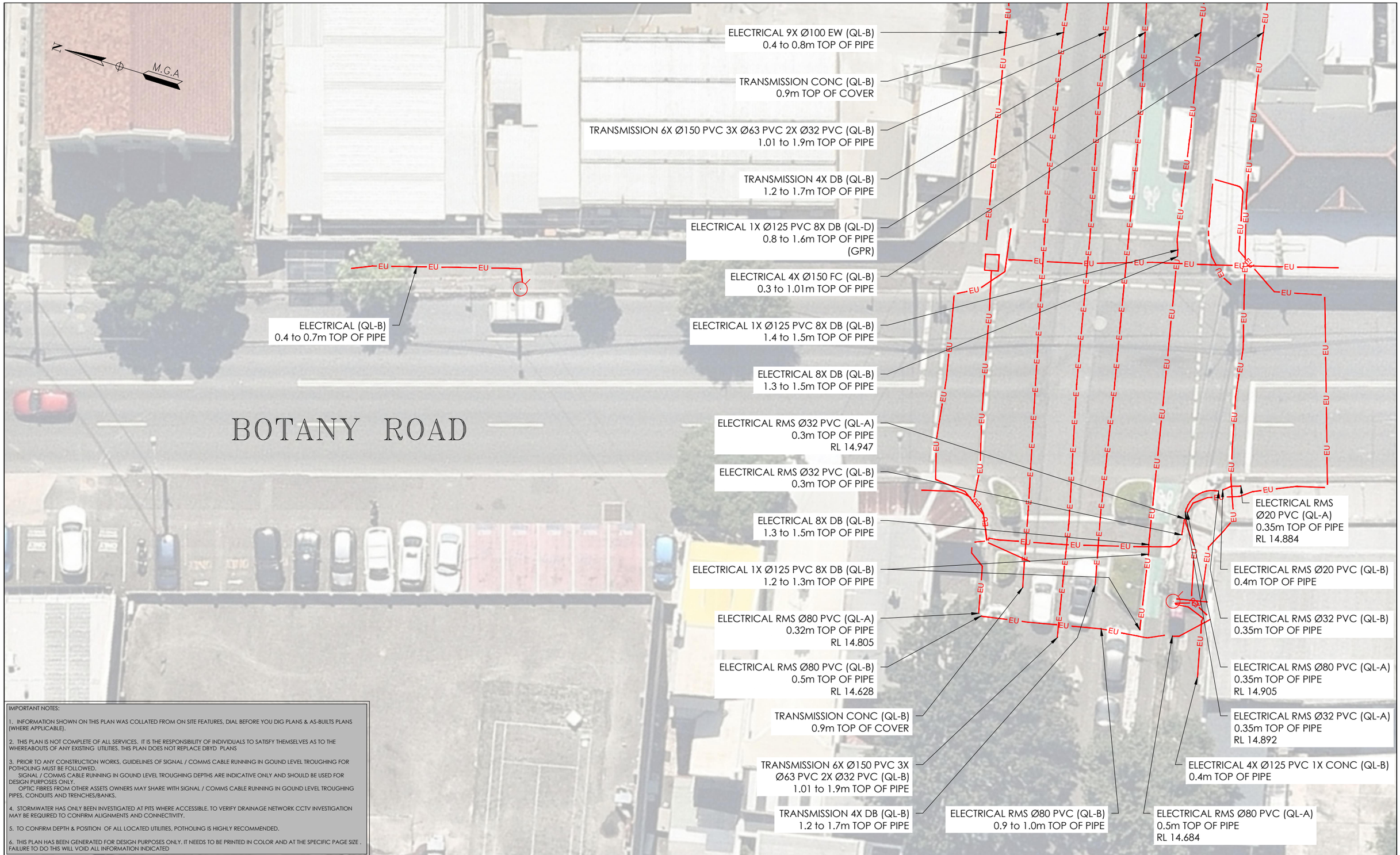
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HEIGHT DATUM:	AHD71	CO-ORD:	MGA94
DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	29 OF 75

JOB NUMBER
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ADJOINS SHEET 29

ADJOINS SHEET 31



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CLIENT: JOHN HOLLAND

PROJECT TITLE: WATERLOO STATION

ELECTRICAL

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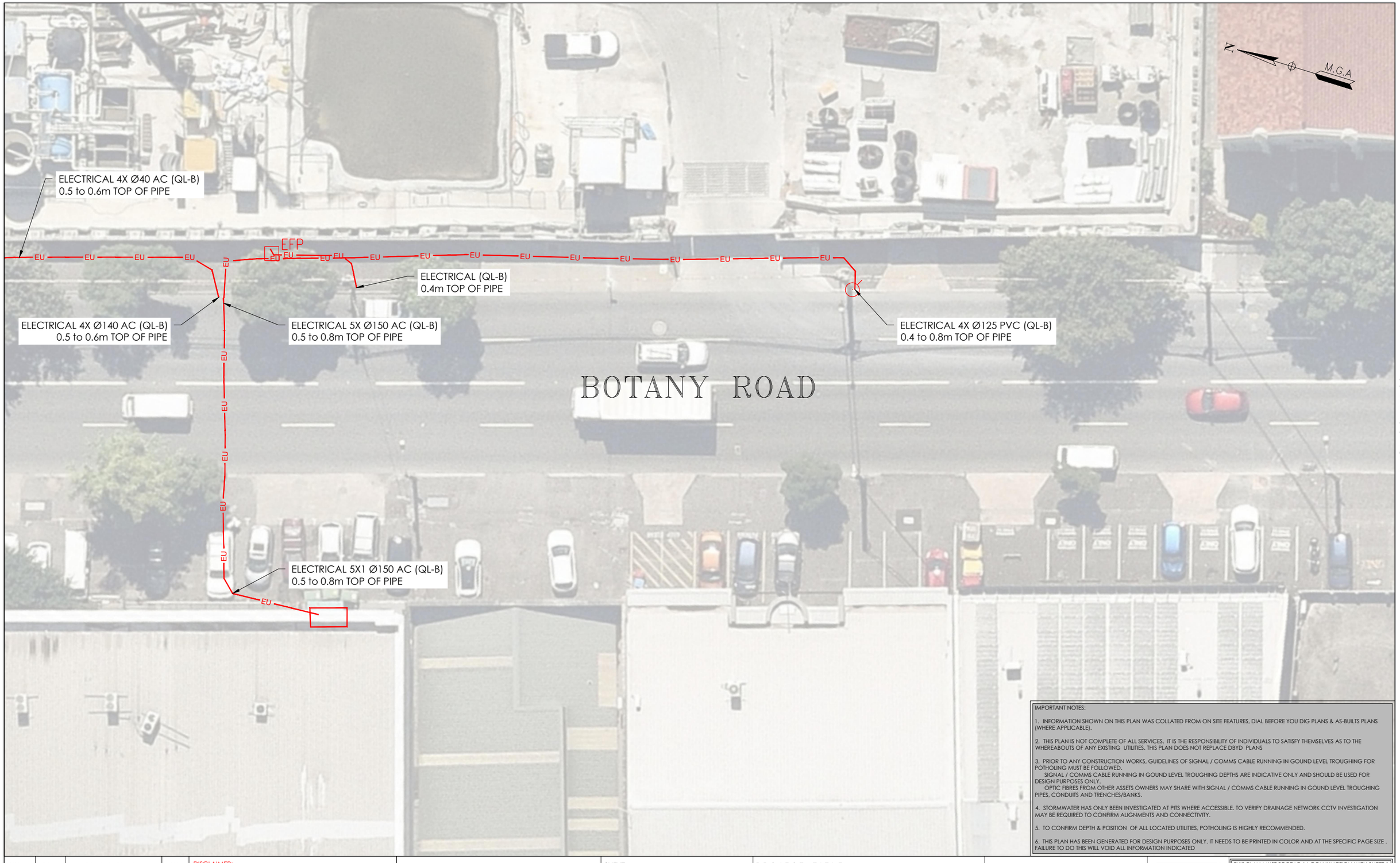
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ADJOINS SHEET 32

ADJOINS SHEET 30

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ORIGINAL SIZE :	A3	SHEET:	31 OF 75

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

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 (QL-D)
EOT

ELECTRICAL 2X Ø100 FC (QL-B)
0.68 to 1.5m 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 Ø80 PVC (QL-A)
0.55m TOP OF PIPE
RL 16.200

ELECTRICAL Ø80 PVC (QL-A)
0.35m TOP OF PIPE
RL 16.408

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

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

ELECTRICAL 2X DB (QL-B)
0.5m TOP OF PIPE
EOT

ELECTRICAL 2X DB (QL-B)
0.5m TOP OF PIPE
EOT

ELECTRICAL 2X Ø100 FC (QL-B)
0.6 to 1.01m TOP OF PIPE

ELECTRICAL 4X Ø125 PVC (QL-B)
0.6 to 1.01m TOP OF PIPE

ELECTRICAL Ø50 PVC (QL-B)
0.5m TOP OF PIPE

EP

EMH

BOTANY ROAD

M.G.A

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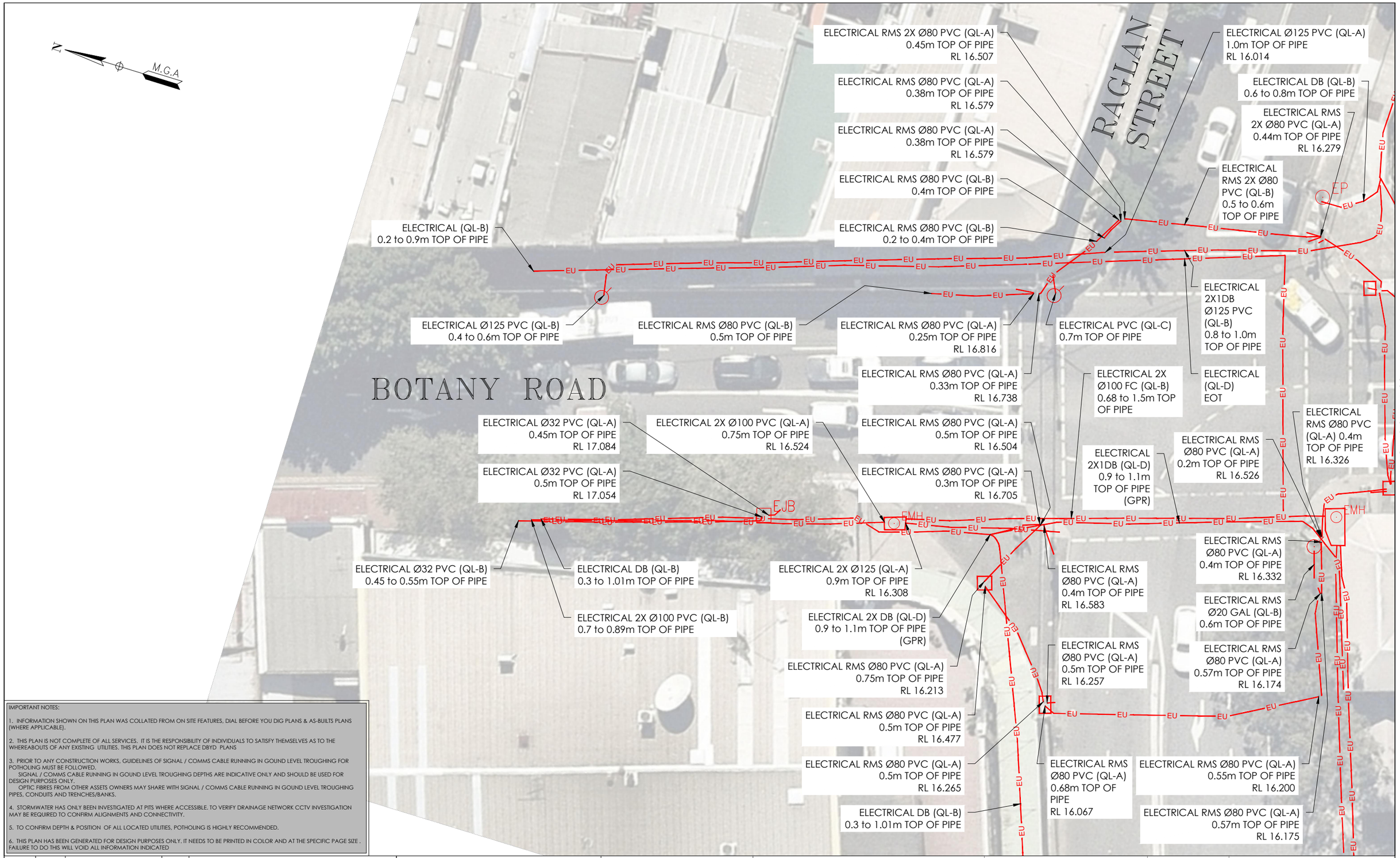
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DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	32 OF 75

JOB NUMBER
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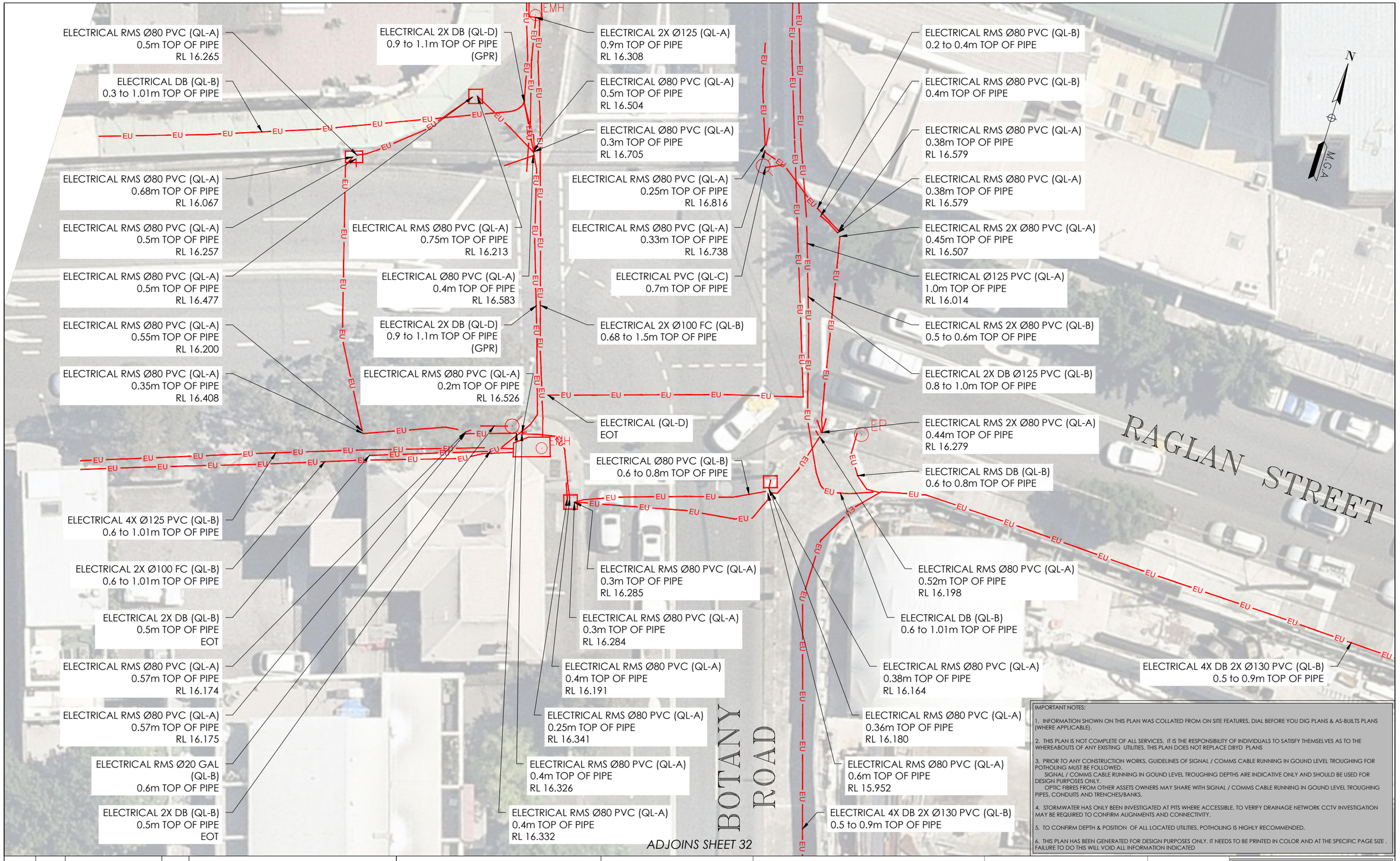
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HEIGHT DATUM:	AHD71	CO-ORD:	MGA94
DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	33 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 33



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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

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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ADJOINS SHEET 25

ADJOINS SHEET 34

ELECTRICAL 2X Ø140 EW (QL-B)
0.6 to 0.9m TOP OF PIPE

ELECTRICAL 3X Ø150 PVC 1X Ø50 PVC (QL-B)
0.5 to 0.7m TOP OF PIPE

ELECTRICAL 2X Ø140 EW (QL-B)
0.6 to 0.9m TOP OF PIPE

ELECTRICAL 3X Ø150 PVC 1X Ø50 PVC (QL-B)
0.4 to 1.2m TOP OF PIPE

ELECTRICAL 4X Ø140 FC 4X DB (QL-B)
0.6m TOP OF PIPE

ELECTRICAL (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 (QL-B)
0.9 to 1.8m TOP OF PIPE

ELECTRICAL 4X Ø150 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

ELECTRICAL 4X Ø100 EW (QL-B)
0.6 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 (QL-B)
0.6 to 0.8m TOP OF PIPE

ELECTRICAL 2X Ø140 PVC 1X DB (QL-B)
0.6 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 4X Ø140 FC 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 3X Ø140 PVC 4X DB (QL-B)
0.6m TOP OF PIPE

ELECTRICAL 2X2 Ø150 PVC (QL-B)
0.6m TOP OF PIPE

ELECTRICAL DB (QL-B)
0.6m TOP OF PIPE

ELECTRICAL 3X Ø140 PVC 4X DB (QL-B)
0.6m TOP OF PIPE

EMH

EMH

EP

EU

RAGLAN STREET

COPE STREET

N

M.G.A

ADJOINS SHEET 26

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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

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:	35 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

N
M.G.A

WATER MAIN Ø300 CICL (QL-D)
0.8 to 1.8m TOP OF PIPE
EOT (GPR)

UNKNOWN PIPE (QL-D)
0.6 to 0.75m TOP OF PIPE
EOT (GPR)

UNKNOWN PIPE (QL-D)
1.15 to 1.43m TOP OF PIPE
EOT (GPR)

UNKNOWN PIPE (QL-D)
0.43 to 0.9m TOP OF PIPE
EOT (GPR)

UNKNOWN PIPE (QL-B)
0.6m TOP OF PIPE
EOT

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

WATER MAIN Ø150 CICL (QL-B)
0.5 to 0.7m TOP OF PIPE

WATER MAIN (QL-D)
AS PER DBYD

EOT

UNKNOWN PIPE (QL-D)
0.86m TOP OF PIPE
EOT (GPR)

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

WATER MAIN (QL-B)
0.43 to 0.9m TOP OF PIPE
EOT (REDUNDANT)

DOMESTIC WATER Ø20 CU (QL-B)
0.5 to 0.7m TOP OF PIPE

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

COPE STREET

WATER MAIN Ø450 CICL (QL-B)
0.8 to 1.2m TOP OF PIPE

WATER MAIN Ø450 CICL (QL-B)
1.2 to 1.7m TOP OF PIPE

WATER MAIN Ø450 CICL (QL-B)
0.6 to 1.2m TOP OF PIPE

WATER MAIN Ø450 CICL (QL-B)
1.2 to 1.7m TOP OF PIPE

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)

RAGLAN STREET

WATER MAIN (QL-D)
AS PER DBYD

WATER MAIN (QL-D)
1.2 to 1.5m TOP OF PIPE
EOT (GPR)

WATER MAIN (QL-D)
0.4 to 0.8m TOP OF PIPE
(GPR)

EOT

WATER MAIN Ø500 CICL (QL-B)
1.01 to 1.5m TOP OF PIPE

WATER MAIN Ø300 CICL (QL-D)
0.8 to 1.8m TOP OF PIPE
(GPR)

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

ADJOINS SHEET 37

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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.

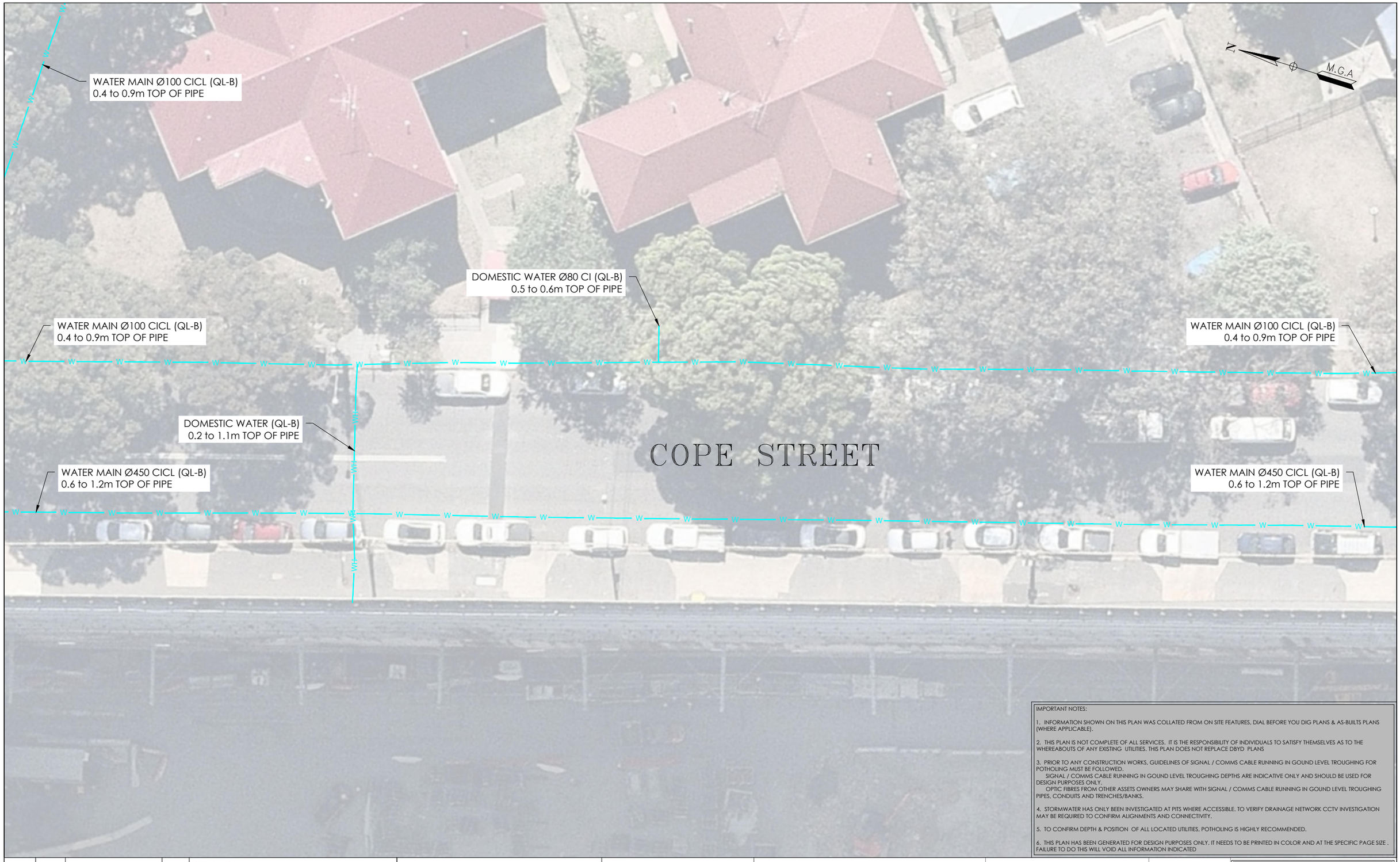
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HEIGHT DATUM:	AHD71	CO-ORD:	MGA94
DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	36 OF 75

JOB NUMBER
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DRAWING NUMBER / ISSUE
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JOB NUMBER
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JOHN HOLLAND

PROJECT TITLE

WATERLOO STATION

WATER

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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: 38 OF 75

JOB NUMBER

202254

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ADJOINS SHEET 38

ADJOINS SHEET 41



ADJOINS SHEET 40

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APPROVED BY:	D.M.

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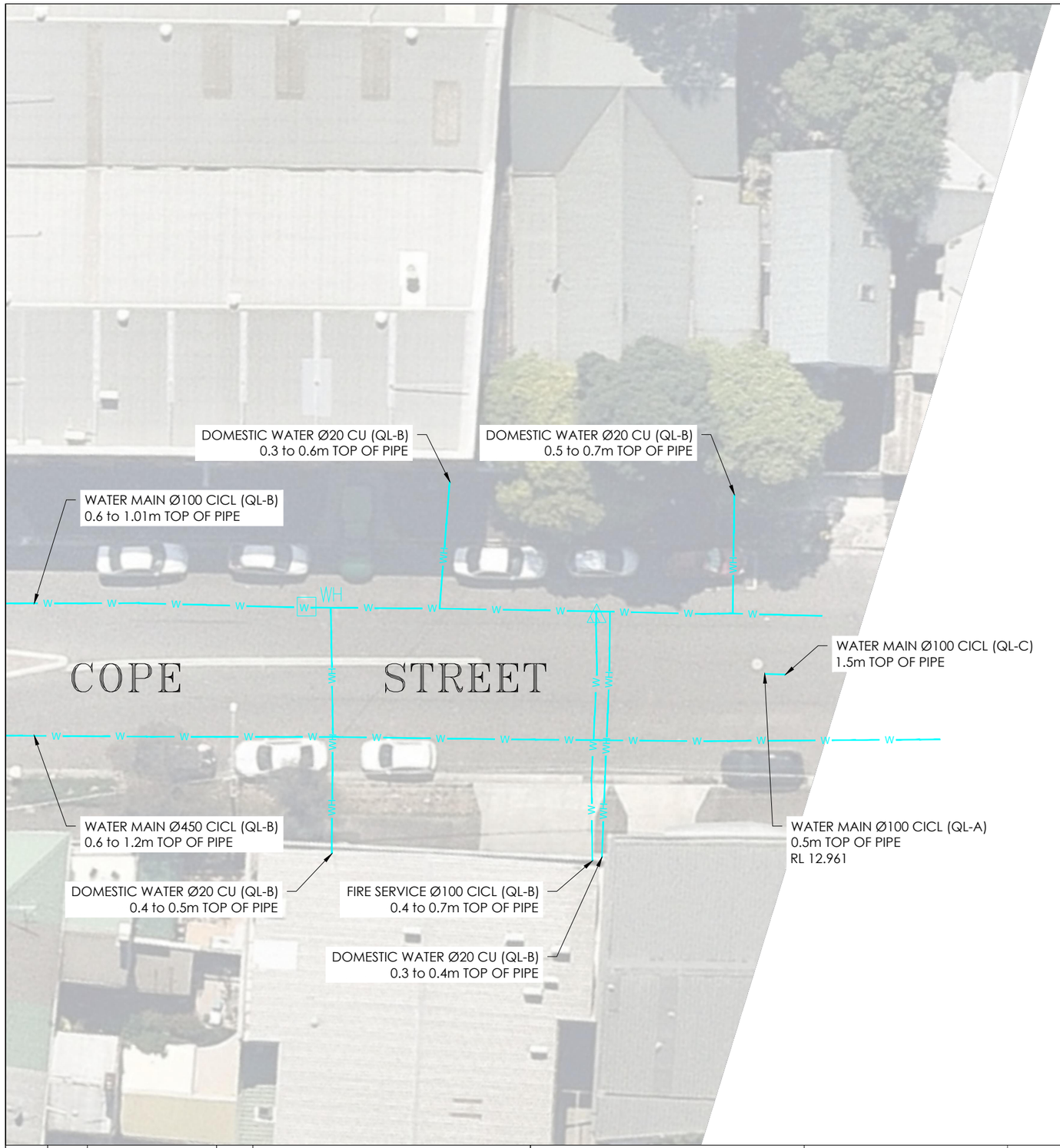
THIS PLAN DOES NOT REPLACE DBYD PLANS

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:	39 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A



ADJOINS SHEET 39

IMPORTANT NOTES:

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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.

DIAL BEFORE YOU DIG www.1100.com.au

THIS PLAN DOES NOT REPLACE DBYD PLANS

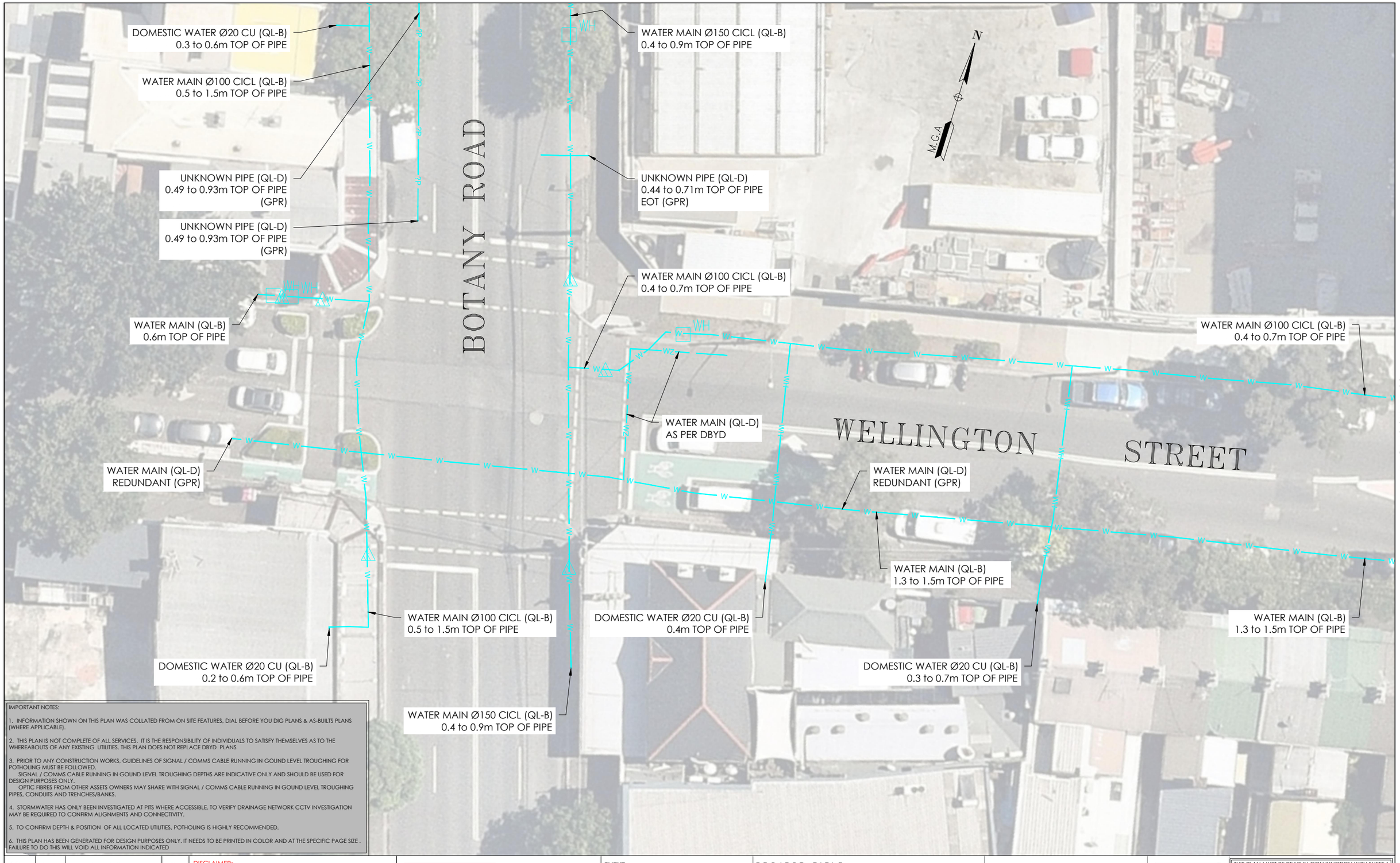
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DATE OF SURVEY:	24/06/2020	DATE OF PLAN:	03/06/2020
HEIGHT DATUM:	AHD71	CO-ORD:	MGA94
DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	40 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 42



ADJOINS SHEET 39

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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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HEIGHT DATUM:	AHD71	CO-ORD:	MGA94
DBYD JOB# :	19449303/22/34	DBYD DATE:	30/04/2020
ORIGINAL SIZE :	A3	SHEET:	41 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
202254-UTILS-001A

ADJOINS SHEET 41

ADJOINS SHEET 43

N

M.G.A

WATER MAIN Ø150 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

DOMESTIC WATER (QL-B)
0.4 to 0.6m TOP OF PIPE

UNKNOWN PIPE (QL-D)
0.5 to 0.8m TOP OF PIPE
(GPR)

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.7m TOP OF PIPE

WATER MAIN (QL-D)
REDUNDANT (GPR)

DOMESTIC WATER Ø20 CU (QL-B)
0.4m TOP OF PIPE

WATER MAIN (QL-D)
AS PER DBYD

EOT

UNKNOWN PIPE (QL-D)
0.44 to 0.71m TOP OF PIPE
EOT (GPR)

UNKNOWN PIPE (QL-D)
0.7m TOP OF PIPE
(GPR)

UNKNOWN PIPE (QL-D)
0.9m TOP OF PIPE
EOT (GPR)

WATER MAIN Ø100 CICL (QL-B)
0.4 to 0.7m TOP OF PIPE

WATER MAIN Ø150 CICL (QL-B)
0.4 to 0.9m TOP OF PIPE

UNKNOWN PIPE (QL-D)
0.49 to 0.93m TOP OF PIPE
(GPR)

UNKNOWN PIPE (QL-D)
0.64 to 0.77m TOP OF PIPE
EOT (GPR)

UNKNOWN PIPE (QL-D)
0.63 to 0.65m TOP OF PIPE
(GPR)

UNKNOWN PIPE (QL-D)
0.73m TOP OF PIPE
EOT (GPR)

BOTANY ROAD

UNKNOWN PIPE (QL-D)
0.49 to 0.93m TOP OF PIPE
(GPR)

WATER MAIN Ø100 CICL (QL-B)
0.5 to 1.5m TOP OF PIPE

EOT

EOT

DOMESTIC WATER Ø20 CU (QL-B)
0.5 to 0.6m TOP OF PIPE

UNKNOWN PIPE (QL-D)
0.53m TOP OF PIPE
(GPR)

DOMESTIC WATER Ø20 CU (QL-B)
0.3 to 0.6m TOP OF PIPE

DOMESTIC WATER Ø20 CU (QL-B)
0.2 to 0.6m TOP OF PIPE

UNKNOWN PIPE (QL-D)
0.9 to 0.97m TOP OF PIPE
(GPR)

FIRE SERVICE Ø100 CU (QL-B)
0.5m TOP OF PIPE

UNKNOWN PIPE (QL-D)
0.7m TOP OF PIPE
(GPR)

WATER MAIN (QL-B)
0.6m TOP OF PIPE

WATER MAIN (QL-D)
REDUNDANT (GPR)

BUCKLAND STREET

WATER MAIN Ø100 CICL (QL-B)
0.5 to 1.5m TOP OF PIPE

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ISSUE	DATE	AMMENDMENT	BY
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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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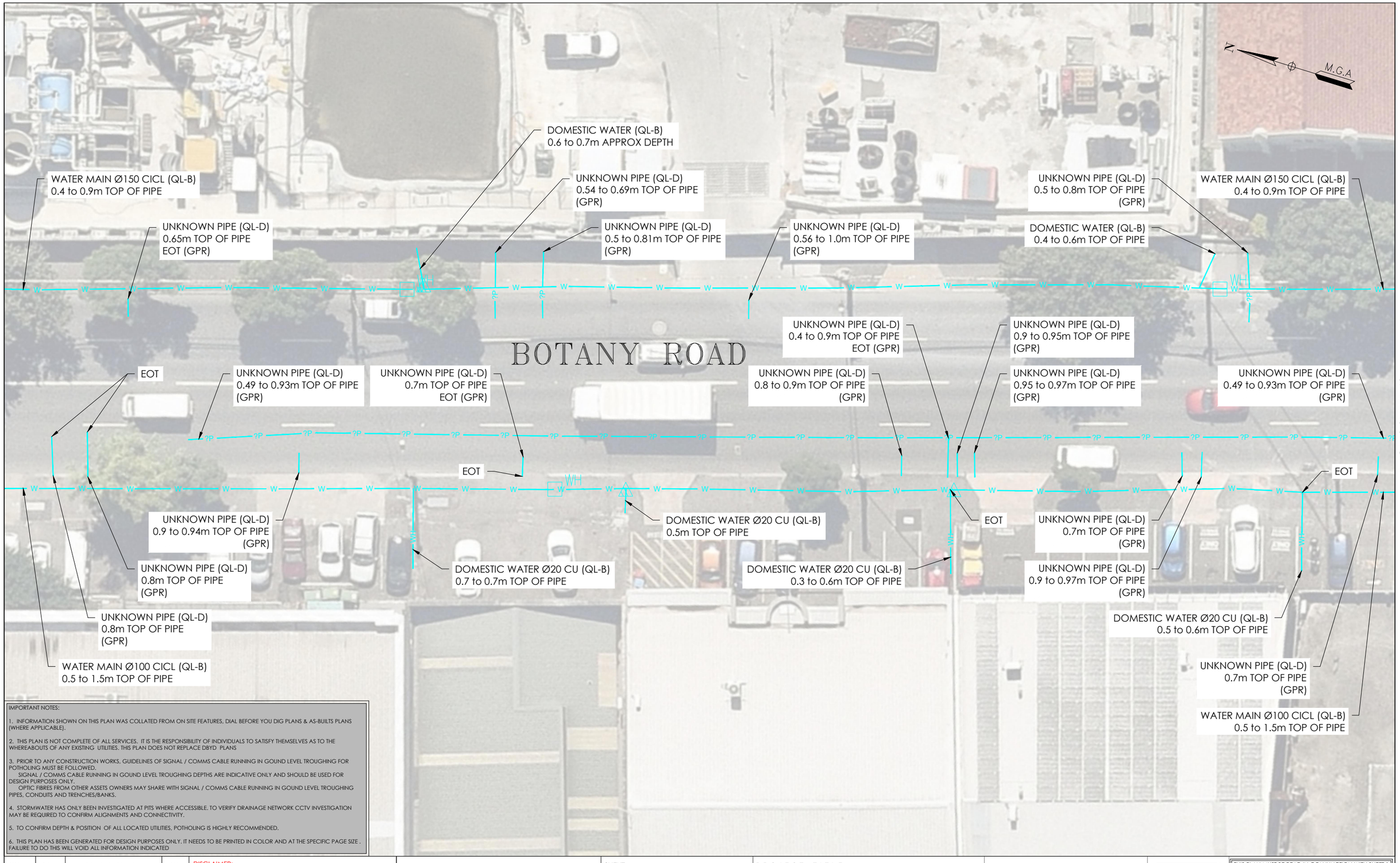
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DATE OF SURVEY: 24/06/2020	DATE OF PLAN: 03/06/2020
HEIGHT DATUM: AHD71	CO-ORD: MGA94
DBYD JOB# : 19449303/22/34	DBYD DATE: 30/04/2020
ORIGINAL SIZE : A3	SHEET: 42 OF 75

JOB NUMBER
202254

DRAWING NUMBER / ISSUE
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.
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:	43 OF 75

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

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

UNKNOWN PIPE (QL-D)
0.78m TOP OF PIPE
(GPR)

UNKNOWN PIPE (QL-D)
0.8m TOP OF PIPE
(GPR)

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-D)
0.8m TOP OF PIPE
(GPR)

WATER MAIN Ø100 CICL (QL-B)
0.5 to 1.5m TOP OF PIPE

HENDERSON ROAD

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

N

M.G.A

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:	44 OF 75

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