

CONTRACT PLAN

UTILITIES CLEARANCE TABLE

CROSSING NO.	UTILITIES	EXISTING / PROPOSED	UTILITY COVER (mm)	WATERMAIN COVER RANGE (mm)	LAY MAIN OVER / UNDER	MINIMUM CLEARANCE (mm)	NOTES
1	COMMS	EXISTING	1500	1000-1100	OVER	150	REFER DETAIL 'A'
2	DN450 SWD	PROPOSED	500	1500-1600	UNDER	150	
3	COMMS	EXISTING	2000	1000-1200	OVER	150	
4	COMMS	EXISTING	1500	800-1000	OVER	150	
5	COMMS	EXISTING	1600	1000-1100	OVER	150	DTC-1124
6	COMMS	EXISTING	1400	2100-2200	UNDER	150	
7	DN140 SEWER	EXISTING	4500	1200-1300	OVER	300	
8	DN200 WATER	EXISTING	TO BE DISUSED				
9	COMMS	EXISTING	900	1300-1400	UNDER	150	TO BE DISUSED
10	COMMS	EXISTING	1000	1300-1400	UNDER	1500	
11	DN100 WATER	EXISTING	TO BE DISUSED				
12	DN140 SEWER	EXISTING	900	1350-1500	UNDER	300	

UT1. Constructor shall adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.

UT2. Limited utility information by third parties deemed current only at the time information provided.

UT3. Any details of utilities provided are not to be taken as indicating all existing utilities & assets or their exact locations. Irrespective of any information provided, Constructor required to inspect for the presence & location of all assets to AS5488-2013, Quality Level A.

UT4. Should adjustment to the 'Watermain Cover Range' or 'Lay Main Over/Under' be requested by the Constructor, or if minimum clearances cannot be achieved, the Constructor is to notify the W.S.C. immediately.

Any adjustments to design that complies with WSA OJ-2011-3.1 (SYDNEY WATER EDITION - 2014), specifically Table 5.5 & Table SW 7.6, will be shown on the Work as Constructed plan.

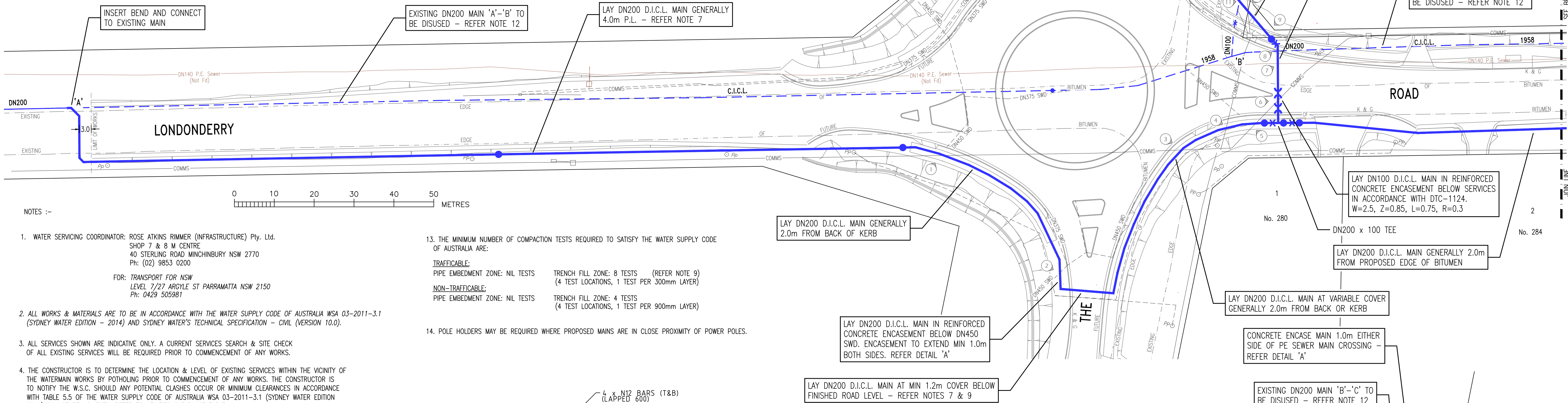
Adjustments to design requiring vertical bends, change of pipe material or pipe treatment to be discussed with Sydney Water and a design variation submitted if required.

UT5. Head Contractor remains responsible for future proposed utility clearance compliance.

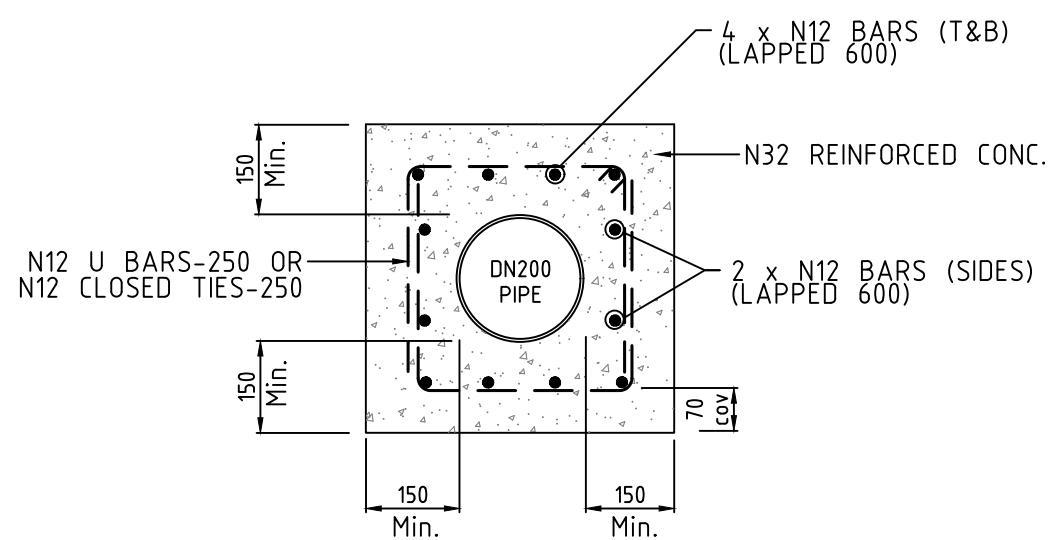
UT6. Constructor to provide 'red line' mark-up for Work as Constructed.

UT7. Where applicable, clearance to outside face of concrete encasement/encasing pipe.

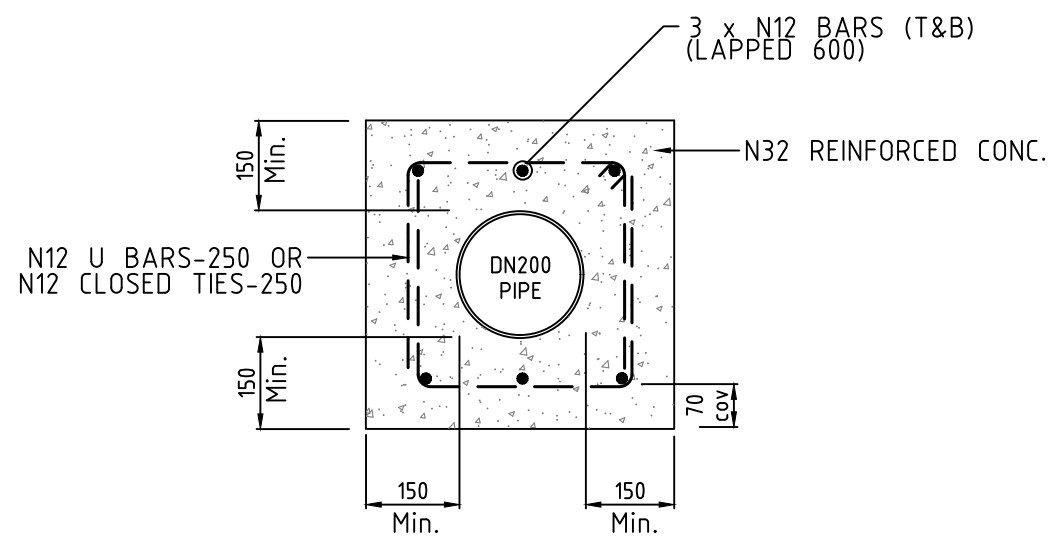
UT8. Cover from F.S.L. U.N.O.



1. WATER SERVICING COORDINATOR: ROSE ATKINS RIMMER (INFRASTRUCTURE) Pty. Ltd.
SHOP 7 & 8 M CENTRE
40 STERLING ROAD MINCHINBURY NSW 2770
Ph: (02) 9853 0200
- FOR: TRANSPORT FOR NSW
LEVEL 7/27 ARGYLE ST PARRAMATTA NSW 2150
Ph: 0429 505981
2. ALL WORKS & MATERIALS ARE TO BE IN ACCORDANCE WITH THE WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1
(SYDNEY WATER EDITION - 2014) AND SYDNEY WATER'S TECHNICAL SPECIFICATION - CIVIL (VERSION 10.0).
13. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA ARE:
- TRAFFICABLE:
PIPE EMBEDMENT ZONE: NIL TESTS TRENCH FILL ZONE: 8 TESTS (REFER NOTE 9)
(4 TEST LOCATIONS, 1 TEST PER 300mm LAYER)
- NON-TRAFFICABLE:
PIPE EMBEDMENT ZONE: NIL TESTS TRENCH FILL ZONE: 4 TESTS
(4 TEST LOCATIONS, 1 TEST PER 900mm LAYER)
14. POLE HOLDERS MAY BE REQUIRED WHERE PROPOSED MAINS ARE IN CLOSE PROXIMITY OF POWER POLES.



DETAIL 'A'
DN200 ENCASEMENT DETAIL ('TYPE 1')
(NOT TO SCALE)




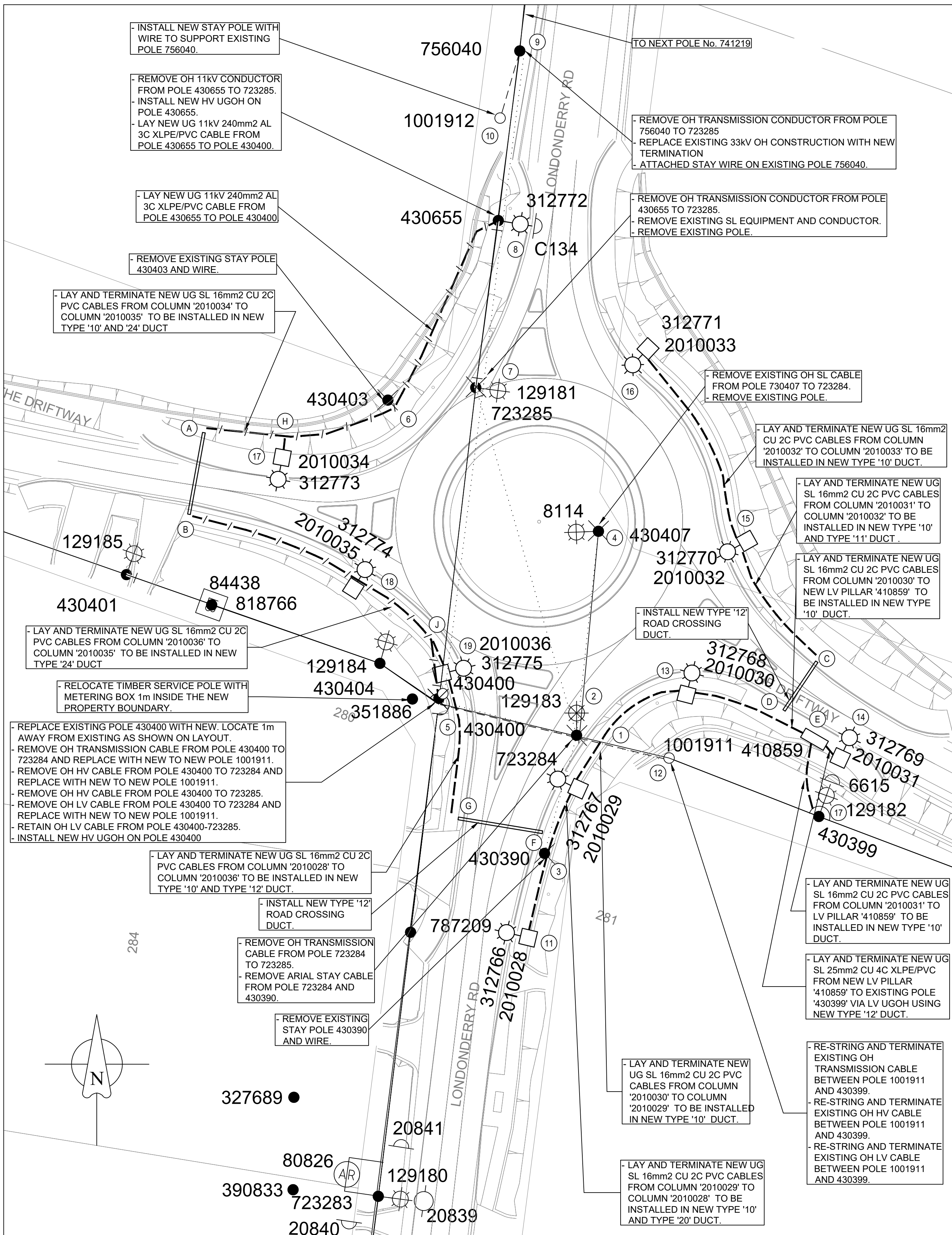
DETAIL 'B'
DN100 ENCASMENT DETAIL ('TYPE 1')
(NOT TO SCALE)

CONCRETE ENCASEMENT/THRUST BLOCK NOTES:

- C1. ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
- C2. CONCRETE ELEMENTS DESIGNED TO WITHSTAND A DESIGN PRESSURE OF 120mm AND A TEST PRESSURE OF 150mm HEAD OF WATER.
- C3. THE ALLOWABLE HORIZONTAL BEARING PRESSURE (AHPB) OF UNDISTURBED NATURAL SOIL TO BE DETERMINED BY A SUITABLY EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO CASTING THRUST BLOCKS.
- C4. CAST THE THRUST AREA OF ALL THRUST BLOCKS AGAINST A CLEAN FACE OF UNDISTURBED NATURAL SOIL. THRUST BLOCKS SHALL NOT INTERFERE WITH OTHER SERVICES.
- C5. DO NOT USE THRUST BLOCKS AS SPECIFIED IN THIS DRAWING WHEN AHPB $< 100\text{ kPa}$. WSC TO BE NOTIFIED IF THESE CONDITIONS ARISE.
- C6. MAXIMUM ALLOWABLE SLUMP SHALL BE 357.5MM. SLUMP SHALL BE IN THE RANGE 50mm – 120mm. MAXIMUM NOMINAL AGGREGATE SIZE SHALL BE 20mm.
- C7. ALL REINFORCEMENT SHALL BE TO AS4671 SHAPE-D, STRENGTH GRADE = 500MPa, DUCTILITY CLASS-IV.
- C8. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 70mm.
- C9. CONCRETE SHALL BE CURED FOR A MINIMUM OF 28 DAYS PRIOR TO APPLICATION OF THRUST LOADS.
- C11. ALL DI FITTINGS AND PIPES TO BE WRAPPED IN POLYETHYLENE SLEEVING, TYPE 700 LONG PE SLEEVING TO END OF DIAL PIPE TO BE ENCASED 150 FROM THE SOCKET FACE TO OVERLAP PE SLEEVING DIAL PIPE.
- C12. THRUST BLOCK DESIGNS SHOWN ON THIS DRAWING ARE NOT SUITABLE FOR USE IN AGGRESSIVE OR CONTAMINATED SOILS.

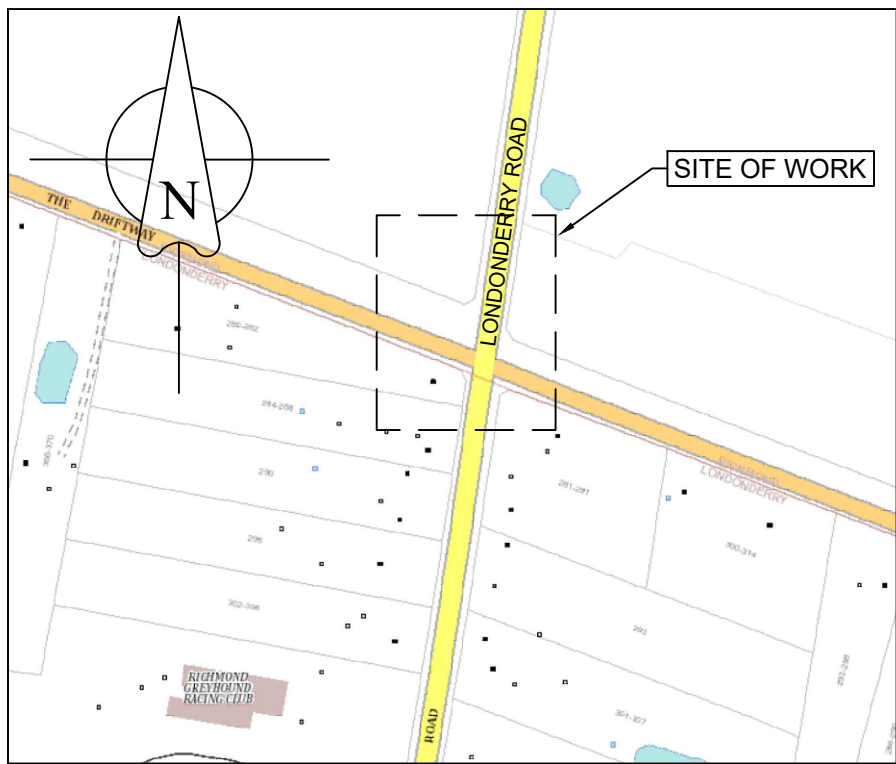
03	DESIGN REVIEW, ISSUE FOR APPROVAL	G.L.	8/11/24
02	ISSUE FOR TENDER	G.L.	20/12/23
01	DRAFT ISSUE FOR DISCUSSION	G.L.	15/06/23
No.	REVISION DESCRIPTION	BY	DATE

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION		UTILITIES				WORK AS CONSTRUCTED CERTIFICATION				PIPE SCHEDULE				GDA 2020		NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.		 SYDNEY WATER CORPORATION	
PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :- DIAL BEFORE YOU DIG Ph. 1100 ELECTRICITY Ph. GAS Ph. TELECOMMUNICATIONS Ph. GIVING AT LEAST 48 HOURS NOTICE.		TYPE SEWER: S STORMWATER: SWD PROP. STORMWATER: SWD ELECTRICITY: E PROP. ELECTRICITY: E TEL/COMMS: COMMS PROP. COMMS: COMMS	DATE 15/11/23 15/11/23 15/11/23 15/11/23 15/11/23 15/11/23	REF. SURV SURV ENG SURV ENG SURV ENG	TYPE 	DATE 	REF. 	DEVELOPER WATER SERVICE CO-ORDINATOR CONSTRUCTOR COMPLETED DESIGNER I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.	SIZE 200 200 100	TYPE D.I.C.L D.I.C.L	CLASS PN35 PN35	LENGTH 500 52	PIPE JOINING METHOD / NOTES 	AUSTRALIAN HEIGHT DATUM SCALES PLAN : 1:500 SECTION { HOR. : VERT. : CROSS SECTIONS : NATURAL LENGTHS, DEPTHS & LEVELS ARE IN METRES.		Map 84-H16, J16 (Version 8.1 Digital) SHEET 1 OF 1 File No. N/A		Case No. 204073PW WATERMAIN ADJUSTMENT LONDONDERRY ROAD LONDONDERRY HAWKESBURY	



SITE PLAN LEGEND

- EXISTING OH CABLE
- NEW HV TRENCH
- NEW LV TRENCH
- NEW DUCT
- REMOVE CABLE
- EXISTING POLE
- NEW POLE
- REMOVE POLE
- NEW COLUMN
- EXISTING LANTERN
- REMOVE LANTERN
- NEW LANTERN
- EXISTING HV AIR BREAK SWITCH (OPEN)
- EXISTING HV LINK UNDER-SLUNG (CLOSED)
- HV LOAD BREAK SWITCH



LOCATION MAP (NTS)

DESIGN COMPLIANCE AND INDEMNITY

This design complies with Endeavour Energy's relevant standards as current at this time and as listed on the Endeavour Energy Accredited Service Provider's internet site. These standards include, but are not limited to:

- CP: Connection Policy
- EMS: Environmental Management Standard
- MCI: Mains Construction Instruction
- MDI: Mains Design Instruction
- PDI: Protection Design Instruction
- SDI: Substation Design Instruction
- SAD 0001: Design Drawing Standard
- MMI: Mains Maintenance Instruction
- SMI: Substation Maintenance Instruction
- LDI 0001: Public Lighting Electrical Design Element

Additionally, where relevant, the design complies with AS/NZS 7000 "Overhead Line Design - Detailed Procedures" published by The Australian Standards.

Traca Group Australia Pty Limited indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed: RICHARD SALIBA
Name: RICHARD SALIBA
Service Provider Number: 4280 Date: 22.02.2024

PIONEER COST SHARE REIMBURSEMENT SCHEME Pro-Rata Reimbursement for Customer Load Over 50kVA					
Asset	Asset Cost Estimate (\$)	Unit Quantity	Net Asset Capacity (kVA)	Original Customer Utilisation (kVA)	Maximum Reimbursement Amount (\$)
HV Mains	N/A	N/A	N/A	N/A	N/A
LV Mains	N/A	N/A	N/A	N/A	N/A
Substation	N/A	N/A	N/A	N/A	N/A

THIS DRAWING SUPPLIES 0 LOT						
C.A.P. No	FILE No	LOT Nos	No. of LOTS	DEVELOPER	DEVELOPERS REP	PHONE No
ARP5101	TBC	0	0	TRANSPORT FOR NSW	TANUJ KAKKAR	0404 893 216

KEY DOCUMENTS TABLE	
THE CERTIFICATION OF THIS PROJECT IS SUPPORTED BY THE FOLLOWING KEY DOCUMENTS.	
DOCUMENT NAME	NOTATION DATE
SUMMARY ENVIRONMENTAL REPORT (SER)	XX/XX/2024
AGREEMENT FOR ENTRY, GRANT and CREATION OF EASEMENT - FPJ5013	N/A
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4252	N/A
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4253	N/A
TELECOMMUNICATION ASSET AGREEMENT - FPJ4184	N/A
DESIGNER'S SAFETY REPORT	XX/XX/2024



FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS		CUSTOMER
ENDEAVOUR ENERGY SUPPLIED MATERIALS	CUSTOMER FUNDED NON-CONTESTABLE WORKS	CUSTOMER FUNDED
NIL	- Network switching, commissioning, contract inspection, ancillary fees.	Includes but not limited to: - Pegging of easements, property boundaries & infrastructure locations - Providing site access - Own service & service connection - Confirm finished ground levels
ENDEAVOUR ENERGY FUNDED & CONSTRUCTED		EXISTING DUCT USAGE CHARGES (exc GST) NIL (based on current reimbursement rates) CO-ORDINATION SUPPLY REQUIRED DATE (TO BE CONFIRMED BY THE CUSTOMER) DAY: 29 MONTH: MARCH YEAR: 2024 ASSET TO BE RETURNED TO NEAREST ENDEAVOUR ENERGY DEPOT BY L1 ASP
Works Required Prior to Completion of Customer Contestable Project List the scope as part of the Endeavour Energy Project and the Project Number (ie G Project)	Works Required in Association of Customer Contestable Project Endeavour Energy Project Number (ie G Project)	
NIL	NIL	
ENDEAVOUR ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSEMENT (exc GST)	CUSTOMER FUNDED CONTESTABLE WORKS	
NIL	All other works and materials including but not limited to: - Trenching - Duct Installation - Cable laying and/or installations	NIL

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____
Date Approved: _____
Examiner's Signature: _____
Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

AUTHORISATION OF ESTIMATE VALUE OF ENDEAVOUR ENERGY FUNDED ASSETS

Signed: _____
Print Name: _____
Service Number: _____
Funding Amount: \$ _____
Date: _____

APPROVAL BY ENDEAVOUR ENERGY TRANSMISSION ENGINEER

Reviewers Name: _____
Date Approved: _____
Reviewers Signature: _____

This approval is issued subject to Endeavour Energy's Standard Certification Terms and is specifically for Drawing No. xxxxxxx Amendment A.

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____
WORKS COMPLETED: _____
SIGNATURE: _____ DATE: _____

INSPECTED BY: _____
SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____
OF: _____
CONTACT NO.: _____
HEREBY CERTIFY THAT ASSETS MARKED AS BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.
SIGNATURE: _____
DATE: _____

SITE PLAN
1:500

0 10 20 30 40 50m
10 8 6 4 2
SCALE 1:500 @ A1

HV TRENCH LENGTH : 157m
LV TRENCH LENGTH : 233m
TOTAL TRENCH LENGTH : 390m

NOTE:
ARIAL STAY CABLE FROM POLE 723284 AND 430390 NOT SHOWN IN GIS.

ATTENTION
ALL SERVICES SEARCHES MUST BE CHECKED BEFORE CONSTRUCTION.

TRACA
ENGINEERING GROUP

Po Box 2214, NORTH PARRAMATTA NSW 1750
Tel: +61 404 898 456 Email: Richard.Saliba@Tracagroup.com.au
www.tracagroup.com.au

REFERENCE DRAWING'S

WORK ORDERS

CAMS File No.	ARP5101
AM PROJ. No.	
HV SWITCHING	C134
EE DEPOT	PENRITH
EE REGION	NORTHERN
HV OP DIAG	EAST RICHMOND 2
LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	
DRAWN	R. S.
DATE	22/02/2024
CH'D	

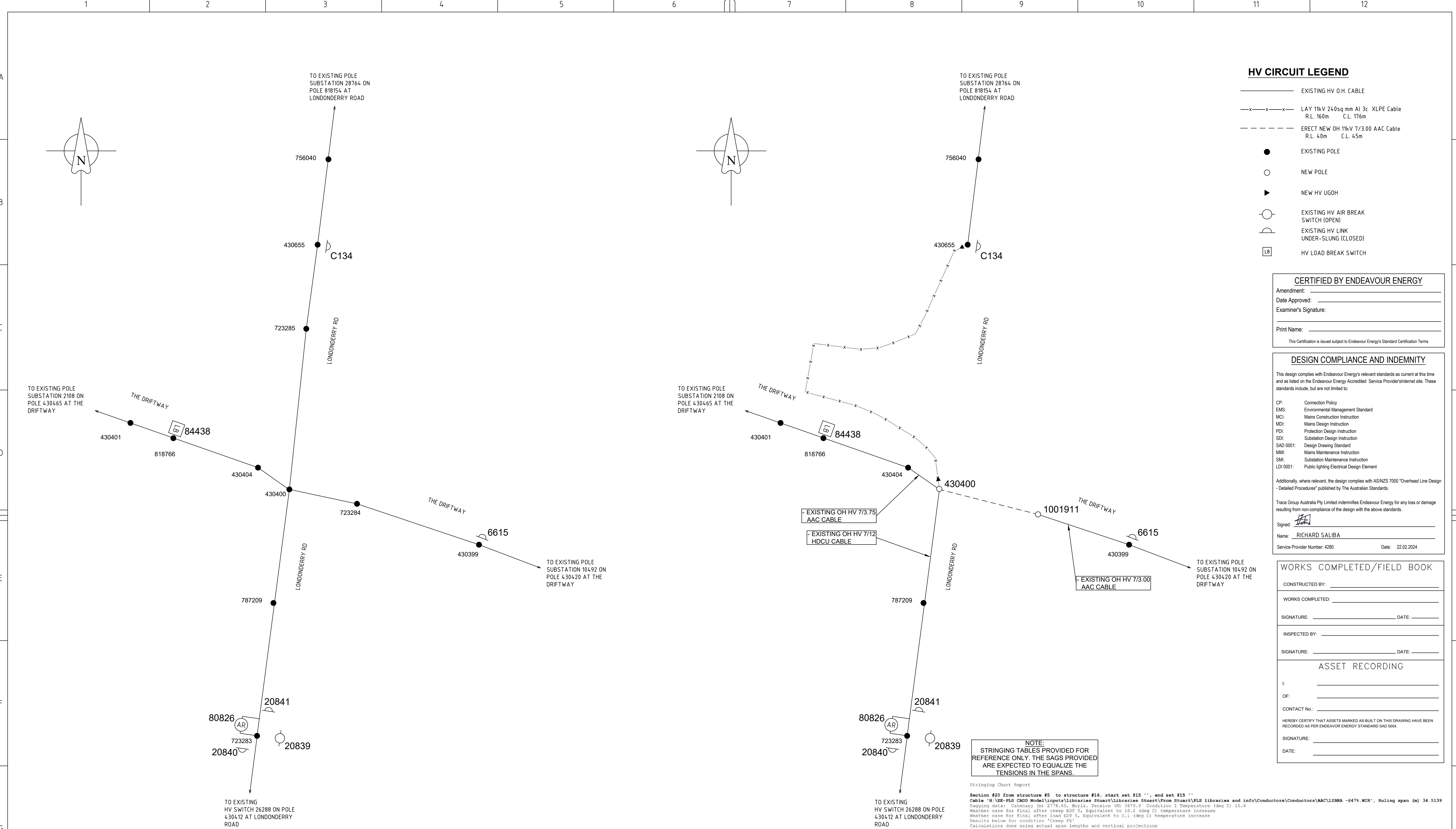
DO NOT SCALE DIMENSIONS IN METRES	
COORDINATE SYSTEM	R. S.

THE DRIFTWAY
LONDONDERRY
ARP5101
ASSET RELOCATION



A1 528376 A

SHEET No 1 OF 8 SHEETS



HV CIRCUIT LEGEND

EXISTING HV O.H. CABLE

—x—x—x—x—

LAY 11kV 240sq mm Al 3c XLPE Cable
R.L. 160m C.L. 176m

ERECT NEW OH 11kV 7/3.00 AAC Cable
R.L. 4.0m C.L. 4.5m

●

EXISTING POLE

○

NEW POLE

▶

NEW HV UGOH

○

EXISTING HV AIR BREAK SWITCH (OPEN)

⤿

EXISTING HV LINK UNDER-SLUNG (CLOSED)

LB

HV LOAD BREAK SWITCH

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

DESIGN COMPLIANCE AND INDEMNITY

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SDI: Substation Design Instruction

SAD 0001: Design Drawing Standard

MMI: Mains Maintenance Instruction

SMI: Substation Maintenance Instruction

LDI 0001: Public Lighting Electrical Design Element

Additionally, where relevant, the design complies with AS/NZS 7000 "Overhead Line Design - Detailed Procedures" published by The Australian Standards.

Traca Group Australia Pty Limited indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed:

Name: RICHARD SALIBA

Service Provider Number: 4280

Date: 22.02.2024

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

NOTE:
STRINGING TABLES PROVIDED FOR REFERENCE ONLY. THE SAGS PROVIDED ARE EXPECTED TO EQUALIZE THE TENSIONS IN THE SPANS.

Stringing Chart Report

Section #20 from structure #5 to structure #16, start set #15'', end set #15''

Cable 'H:\EE-PLS CMD Model\input\libraries\Stuart\libraries\Stuart\From Stuart\PLS libraries and info\Conductors\Conductors\AAC\LIBRA -847% WIR', Ruling span (m) 34.5139

Sagging data: Catenary (m) 2778.45, Horiz. Tension (N) 3679.9 Condition 1 Temperature (deg C) 15.6

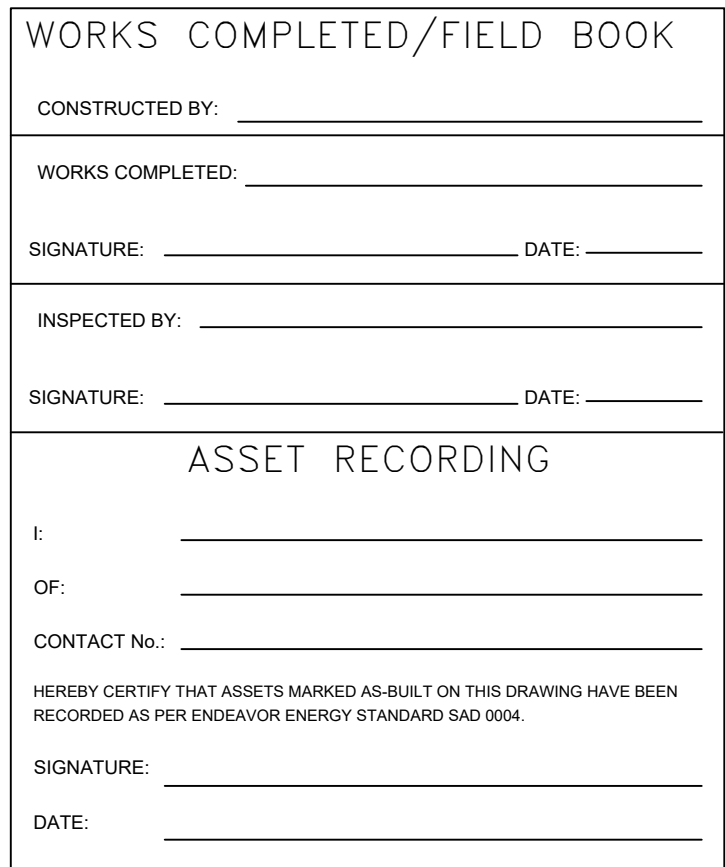
Weather case for final after creep EUT 5, Equivalent to 10.1 (deg C) temperature increase

Weather case for final after load EUT 5, Equivalent to 0.1 (deg C) temperature increase

Results below for condition 'Creep PE'

Calculations done using actual span lengths and vertical projections

+ Span From	+ Span To	+ Span	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Mid	Left	Span	
Str.	Set	Ph.	Str.	Set	Ph.	Length	Sag	Sag	Sag	Sag	Sag	Sag	Sag	Span	Vertical Projection	
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
5	15	1	16	15	1	34.5	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	5	-0.75



Stringing Chart Report

Section #29 from structure #5 to structure #20, start set #39 '', end set #41 'OHWE clamp'

Weather: M; WSE-Plus CAD Model Inputs/Libraries/Stuarc/Libraries/Stuarc/From Stuarc/PLS libraries and InfoConductors/Conductors/LVABC/LVABC_2X25 @ 4t.wir', Ruling span (m) 27.9084

Dagging Data: Category (m) 17.00, Temperature (deg C) 15.6





Cable name for final after creep EDT 5, Equivalent to 35.1 (deg C) temperature increase

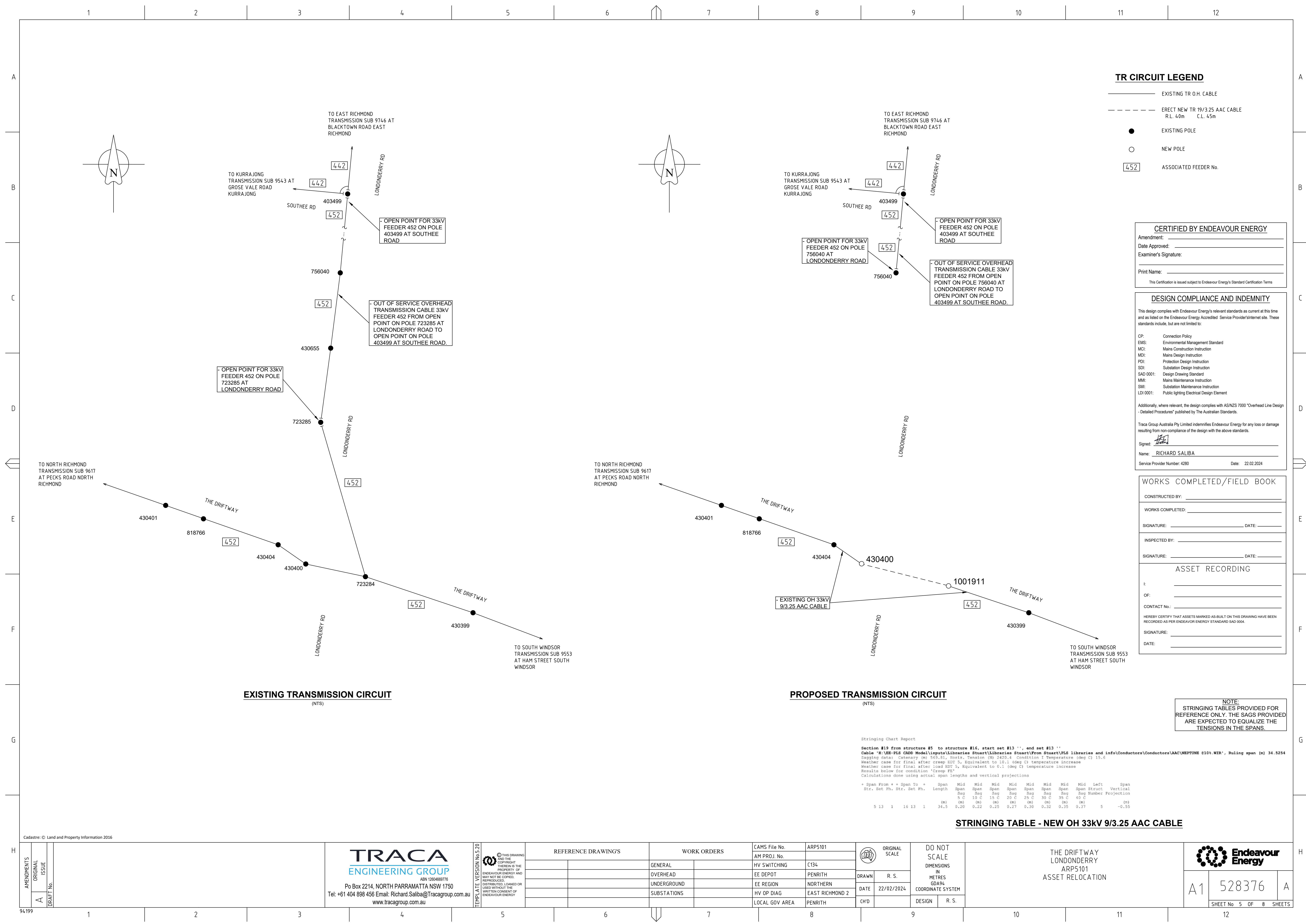
Weather case for final after load EDT 5, Equivalent to 0.1 (deg C) temperature increase

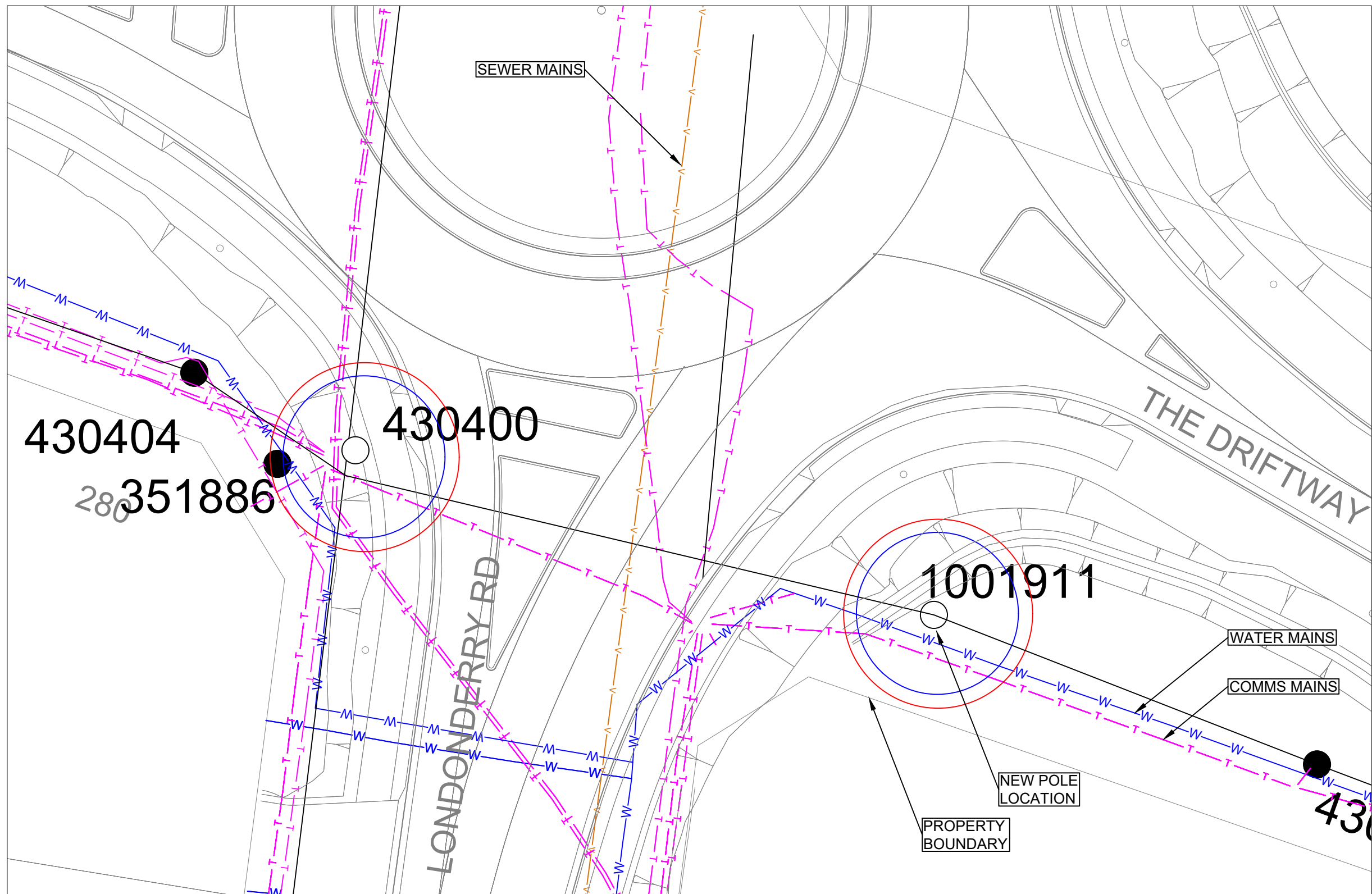
Results below for condition "Creep E"

Calculations done using actual span lengths and vertical projections

	Span From + Span To + Str Set Ph. Str Set Ph.	Span Length	Mid Seg	Mid Span	Mid Seg	Mid Span	Mid Seg	Mid Span	Mid Seg	Mid Span	Mid Left Span	Vertical Projection	Span
		(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)		(m)
	5 39 1 20 41 1	27.9	0.62	0.66	0.69	0.72	0.74	0.77	0.79	0.82	8	1.00	

AMENDMENTS ORIGINAL ISSUE		DRAFT No.		 <p>TRACA ENGINEERING GROUP</p> <p>ASN 12504699776</p> <p>Po Box 2214, NORTH PARRAMATTA NSW 1750 Tel: +61 404 898 456 Email: Richard.Saliba@Tracagroup.com.au www.tracagroup.com.au</p>		<p>TEMPLATE VERSION No 5.20</p> <p> THIS DRAWING AND THE COPYRIGHT THEREIN IS THE PROPERTY OF ENDEAVOUR ENERGY AND MAY NOT BE COPIED, REPRODUCED, DISTRIBUTED, LOANED OR USED WITHOUT THE WRITTEN CONSENT OF ENDEAVOUR ENERGY</p>		<p>REFERENCE DRAWINGS</p> <table border="1"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table>																						<p>WORK ORDERS</p> <table border="1"> <tr><td>GENERAL</td><td></td></tr> <tr><td>OVERHEAD</td><td></td></tr> <tr><td>UNDERGROUND</td><td></td></tr> <tr><td>SUBSTATIONS</td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table>		GENERAL		OVERHEAD		UNDERGROUND		SUBSTATIONS														<p>CAMS File No.</p> <p>AM PROJ. No.</p> <p>HV SWITCHING</p> <p>EE DEPOT</p> <p>EE REGION</p> <p>HV OP DIAG</p> <p>LOCAL GOV AREA</p>		<p>ARPS101</p> <p>C134</p> <p>PENRITH</p> <p>NORTHERN</p> <p>EAST RICHMOND 2</p> <p>PENRITH</p>		<p> ORIGINAL SCALE</p> <p>DRAWN</p> <p>R. S.</p> <p>DATE</p> <p>22/02/2024</p> <p>CH'D</p>		<p>DO NOT SCALE DIMENSIONS IN METRES GD494 COORDINATE SYSTEM</p> <p>DESIGN</p> <p>R. S.</p>		<p>THE DRIFTWAY LONDONDRY ARP5101 ASSET RELOCATION</p>				<p></p>			
GENERAL																																																																			
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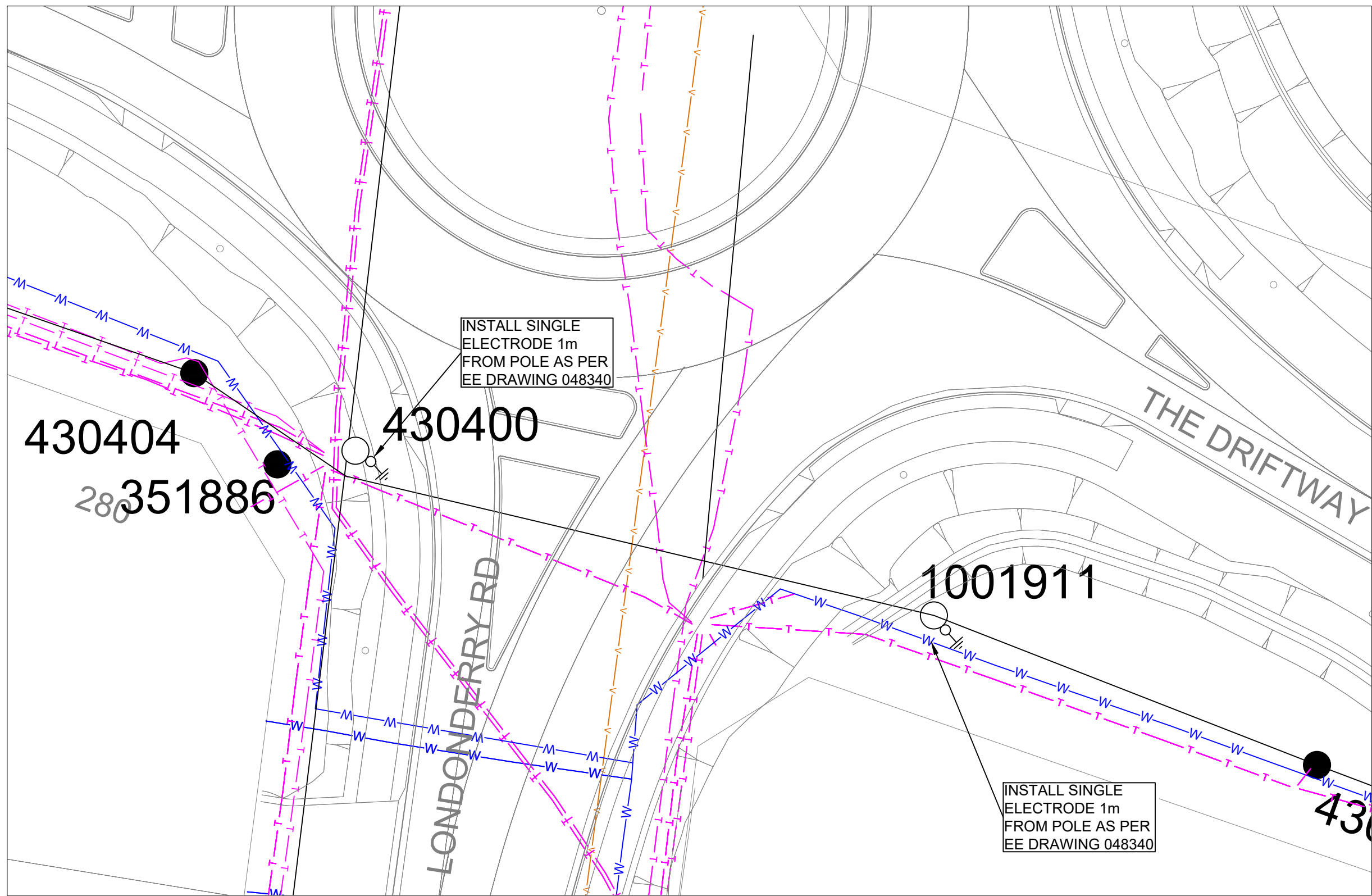


EARTHING RESTRICTION ZONE CONTOUR PLOT (BASED ON 100 Ohm m RESISTIVITY, 0.2 s, 10kV FAULT LEVEL)
(NTS)

CONTOUR LEGEND

- METALLIC PIPE & BACKYARD (TDB) LIMIT (6 METRES)
— TELCO 430V CONTOUR (7 METRES)

NOTE: CONTOURS DRAWN CENTERED AROUND EARTH ELECTRODE.

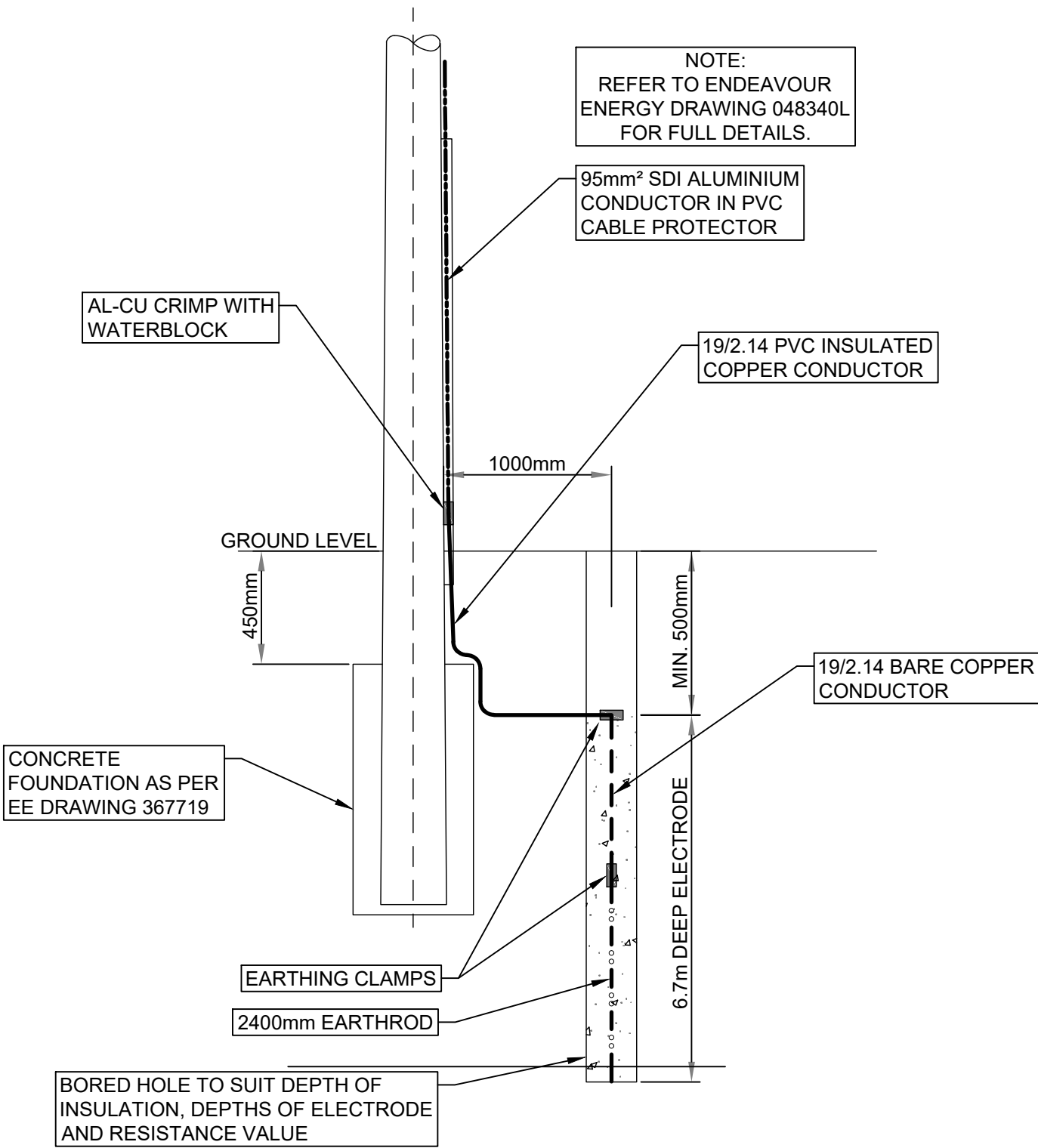


EARTHING RESTRICTION ZONE CONTOUR PLOT
(NTS)

EATHING PLAN LEGEND

- ⊕ EARTH ELECTRODE

EARTHING DETAILS (33kV Pole 1001911)				
Soil Resistivity (ohms.m)	Layer 1	115.82	Depth (m)	1.32
	Layer 2	21.6		infinity
Design earth resistance limit (ohms)			9.18	
Measured earth resistance (ohms)				
Number of electrodes			1	
Insulated depth (m)			0.5	
Length of bare electrode (m)			2.4	
Connector type (CAD or CRIMP)			CRIMP	
Location Category			F	
What design tool used?			Proprietary	
Fault Level (kA)			10kA	



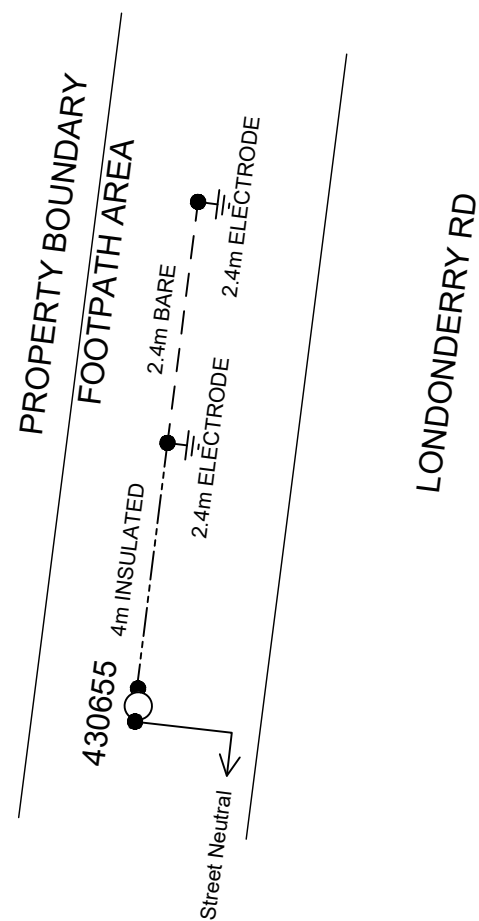
33kV TIMBER POLE EARTHING DETAIL

(NTS)
THIS EARTHING DIAGRAM IS A GUIDE ONLY AND HAS BEEN PREPARED IN ACCORDANCE WITH ENDEAVOUR ENERGY'S EDI0004 BASED ON MEASUREMENTS AT THE TIME OF DESIGN. INSTALLATION OF THE EARTH GRID MUST BE INSTALLED AS PER ENDEAVOUR ENERGY'S EDI0004 AND TRANSMISSION WOOD POLE EARTHING DRAWING 48340. ANY SIGNIFICANT DISCREPANCIES WITH THE MEASURED 'AS-BUILT' VALUES MUST BE DISCUSSED WITH THE DESIGNER.

HV UGOH ON POLE 430655 COMMON EARTHING LAYOUT

NOT TO SCALE

THIS EARTHING DIAGRAM IS A GUIDE ONLY AND SHOWS A MINIMUM REQUIREMENT. ADDITIONAL EARTHING MAY BE REQUIRED TO MEET THE REQUIRED MAXIMUM EARTH RESISTANCE MEASUREMENTS AS STATED IN ENDEAVOUR ENERGY'S EDI 100.



EARTHING DETAILS (HV UGOH ON POLE 430655)				
Soil Resistivity (ohms.m)	Layer 1	115.82	Depth (m)	1.32
	Layer 2	21.6		infinity
Design earth resistance limit (ohms)			9.18	
Measured earth resistance (ohms)				
Number of electrodes			2	
Length of bare electrode (m)			2.4	
Connector type (CAD or CRIMP)			CRIMP	
Location Category			REMOTE	
What design tool used?			3E Tool	
Fault Level (kA)			1.781	
Is this 'first asset out' from ZS?			No	

UGOH EARTHING NOTES:

1. THE EARTHING ARRANGEMENTS AND CONNECTION DETAILS ON WOOD POLE REFER TO DRAWING No.348253.
2. INSTALLATION OF HORIZONTAL EARTHING CABLES AND VERTICAL ELECTRODES REFERS TO DRAWING No.348247.
3. PVC MOULDED CABLE GUARDS SHALL BE USED AND SHALL BE INSTALLED TO A MINIMUM DEPTH OF 100mm BELOW GROUND LEVEL AND 2400mm ABOVE GROUND LEVEL.
4. MORE DETAILS REFER TO EDI 100.

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____
Date Approved: _____
Examiner's Signature: _____
Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

DESIGN COMPLIANCE AND INDEMNITY

This design complies with Endeavour Energy's relevant standards as current at this time and as listed on the Endeavour Energy Accredited Service Provider's internet site. These standards include, but are not limited to:

CP: Connection Policy
EMS: Environmental Management Standard
MCI: Mains Construction Instruction
MDI: Mains Design Instruction
PDI: Protection Design Instruction
SDI: Substation Design Instruction
SAD 0001: Design Drawing Standard
MMI: Mains Maintenance Instruction
SMI: Substation Maintenance Instruction
LDI 0001: Public Lighting Electrical Design Element

Additionally, where relevant, the design complies with AS/NZS 7000 "Overhead Line Design - Detailed Procedures" published by The Australian Standards.

Traca Group Australia Pty Limited indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed:
Name: RICHARD SALIBA
Service Provider Number: 4280 Date: 22.02.2024

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT NO.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOR ENERGY STANDARD SAD 0004.

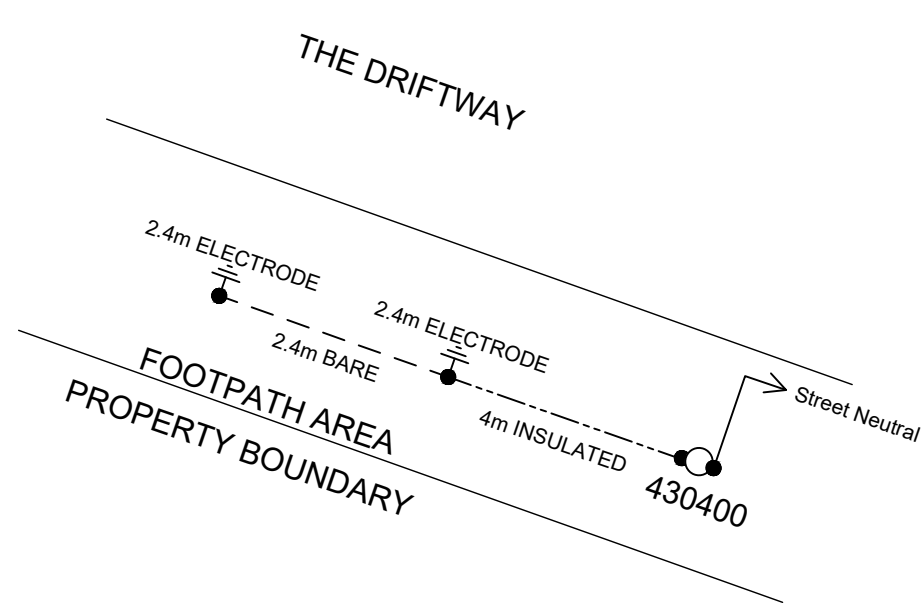
SIGNATURE: _____

DATE: _____

HV UGOH ON POLE 430400 COMMON EARTHING LAYOUT

NOT TO SCALE

THIS EARTHING DIAGRAM IS A GUIDE ONLY AND SHOWS A MINIMUM REQUIREMENT. ADDITIONAL EARTHING MAY BE REQUIRED TO MEET THE REQUIRED MAXIMUM EARTH RESISTANCE MEASUREMENTS AS STATED IN ENDEAVOUR ENERGY'S EDI 100.



EARTHING DETAILS (HV UGOH ON POLE 430400)				
Soil Resistivity (ohms.m)	Layer 1	115.82	Depth (m)	1.32
	Layer 2	21.6		infinity
Design earth resistance limit (ohms)			9.18	
Measured earth resistance (ohms)				
Number of electrodes			2	
Length of bare electrode (m)			2.4	
Connector type (CAD or CRIMP)			CRIMP	
Location Category			REMOTE	
What design tool used?			3E Tool	
Fault Level (kA)			1.781	
Is this 'first asset out' from ZS?			No	

OVERHEAD DESIGN PARAMETERS		
ITEM	PARAMETER	VALUE
1	Security Level	II
2	Design Life	50 years
3	Terrain Category	II
4	Regional Wind Speed	41 m/s
5	Site Wind Speed	44.3 m/s
6	Design Wind Pressure	1200 Pa
7	Maximum design temperature - New - OPGW	50°C
8	Maximum design temperature - New - 9/3.25 AAC	100°C
9	Minimum ground clearance for adjusted spans at 100°C	7.5 m
10	Everyday condition: 0Pa wind, 5°C	-
11	Minimum design temperature - no wind	5°C
12	Standard operating temperature - Phase conductor	75°C
13	Maximum design temperature - Phase conductor	100°C
14	Standard operating temperature - OPGW	50°C
15	Maximum design temperature - OPGW	50°C
16	Blowout conditions: 50°C, 500Pa wind	-
17	Vibration damping (OPGW, PHASE, OR BOTH)	OPGW
18	Load and capacity factors as per MDI0031 Amendment 4	-

SEPARATION OF CONDUCTORS AT MIDSPAN SUMMARY - MDI0031 AMDT 4 SECTION 5.5.2		
STRUCTURE FROM	STRUCTURE TO	PASS/FAIL
756040	741219	PASS
1001911	430400	PASS

NOTE: ONLY RELEVANT SPANS CALCULATED.

SEPARATION OF CONDUCTORS AT MIDSPAN SUMMARY - MDI0031 AMDT 4 SECTION 5.5.3			
STRUCTURE FROM	STRUCTURE TO	SEPARATION	PASS/FAIL
756040	741219	1.6	PASS
1001911	430400	1.6	PASS

NOTE: ONLY RELEVANT SPANS CALCULATED.

Midspan Clash Check (phase conductor to phase conductor)			
$\sqrt{X^2 + (1.2Y)^2} \geq \frac{U}{150} + k\sqrt{D+I_1}$		Units	Value
X (projected horizontal distance)	m		2.30
Y (projected vertical distance)	m		1.60
LHS of equation			3.00
U (the RMS difference in potential (kV) between the two conductors)	kV		33.0
k (a constant, normally equal to 0.055)			0.55
D (ratio of two conductor sags: min temp for p-h or max temp for p-h-pl)	m		2.40
I (the length of any free swing suspension insulator)	m		0.80
RHS of equation			1.20
Condition satisfied?	Yes		

MIDSPAN SEPARATION RESULTS (POLE 756040 & 741219)

Midspan Clash Check (phase conductor to phase conductor)				
		Units	Value	Notes
$\sqrt{X^2 + (1.2Y)^2} \geq \frac{U}{150} + k\sqrt{D+l_i}$				
X (projected horizontal distance)	m		2.30	
Y (projected vertical distance)	m		1.60	
LHS of equation			3.00	
U (the RMS difference in potential (kV) between the two conductors)	kV		33.0	
k (a constant, normally equal to 0.05)			0.55	
D (greater of two conductor sag: amb temp for ph-b or max temp for ph-ph)	m		1.10	
l (the length of any free swing suspension insulator)	m		0.80	
RHS of equation			0.98	
Condition satisfied?	Yes			


MIDSPAN SEPARATION RESULTS (POLE 1001911 & 430400)


1001912													750	2.4	8/30	X				X				P10
	756040												EX	EX	EX						X			P9
	430655				9	4.5							EX	EX	EX						X			P8
	723285			X									EX	EX	EX							X		P7
	430403												EX	EX	EX							X		P6
430400	430400												750	3.3	18.5/12		C		X					P5
	430407			X									EX	EX	EX							X		P4
	430390												EX	EX	EX	X						X		P3
	723284			X									EX	EX	EX							X		P2
1001911													750	2.45	18.5/8		C			X				P1
NEW	EXISTING	EXISTING	REPLACE	REMOVE	MOUNTING HEIGHT (m)	BRACKET	SPAN LENGTH (m)	LINE DEV DEGREES	OHEW	TR	HV	LV	DIAMETER (mm)	DEPTH (m)	TYPE (mkn)	STAY	FOOTING	RELOCATE	REPLACE	NEW	EXISTING	REMOVE	NUMBER	
FIELD POLE NUMBER		LANTERNS					CONSTRUCTION						HOLE		POLE									

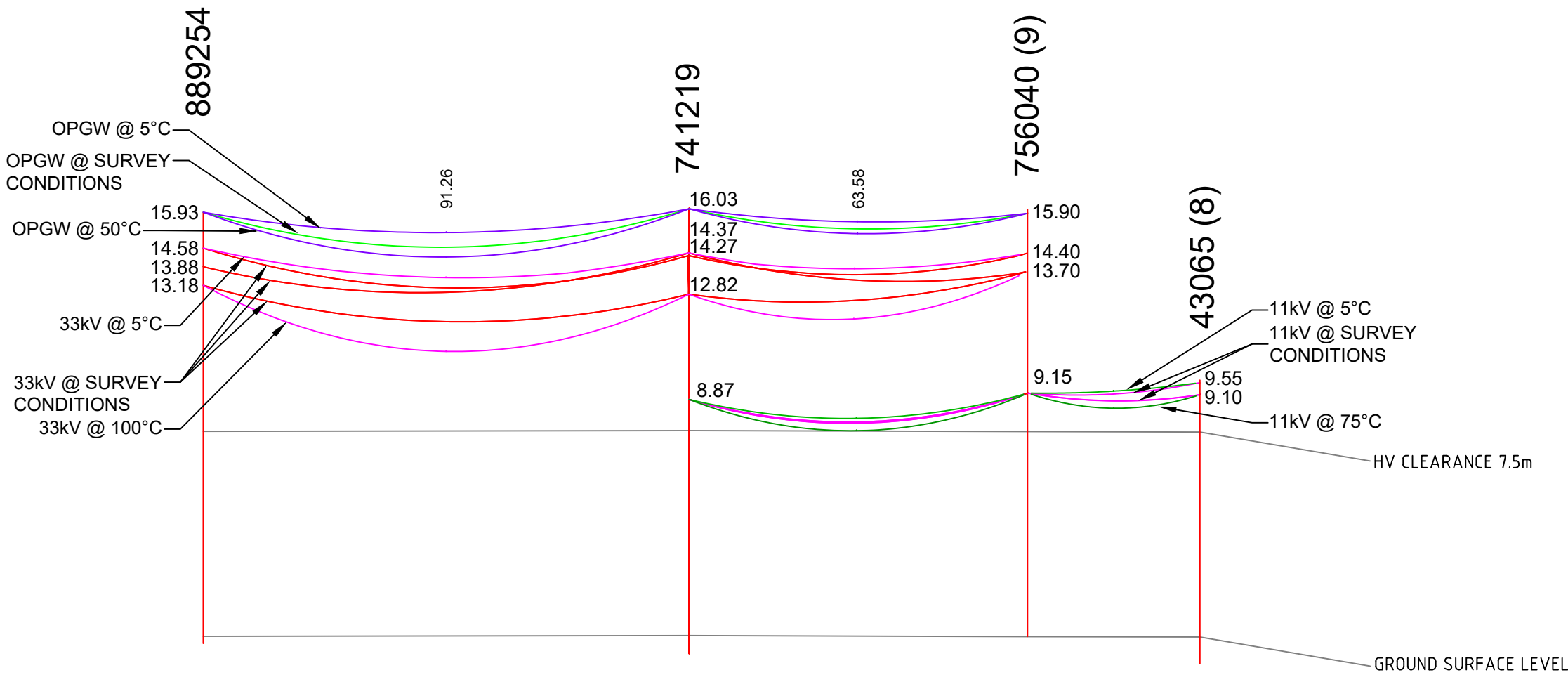
Cadastre: © Land and Property Information 2016

[illegible]

REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	ARPS101
				AM PROJ. No.	
		GENERAL		HV SWITCHING	C134
		OVERHEAD		EE DEPOT	PENRITH
		UNDERGROUND		EE REGION	NORTHERN
		SUBSTATIONS		HV OP DIAG	EAST RICHMOND 2
				LOCAL GOV AREA	PENRITH

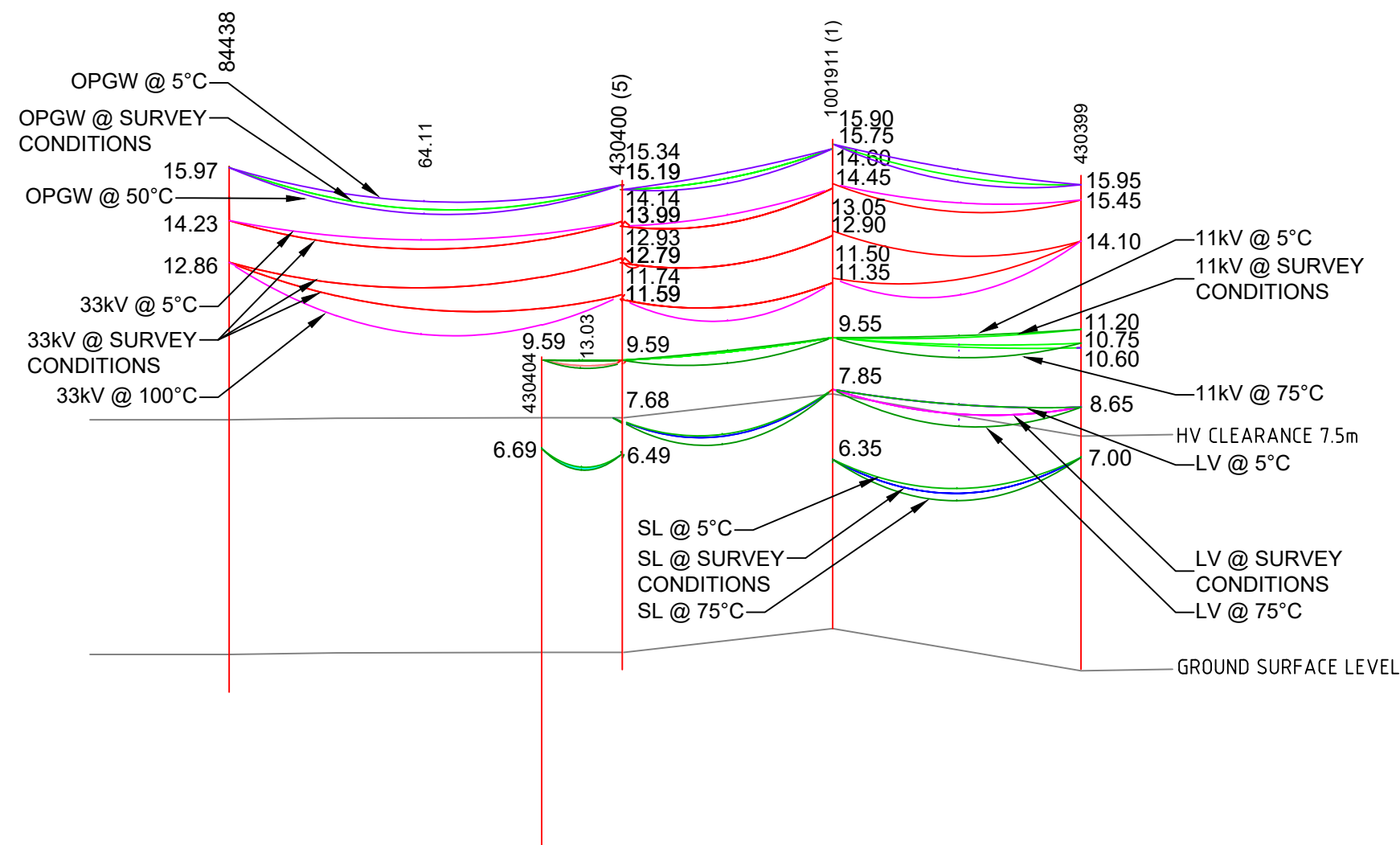
		ORIGINAL SCALE		DO NOT SCALE DIMENSIONS IN METRES GDA94 COORDINATE SYSTEM	
DRAWN	R. S.				
DATE	22/02/2024				
CH'D					
				DESIGN	R. S.

THE DRIFTWAY LONDONDERRY ARP5101 ASSET RELOCATION	 Endeavour Energy		
	A1	528376	A
		SHEET No 8 OF 8 SHEETS	



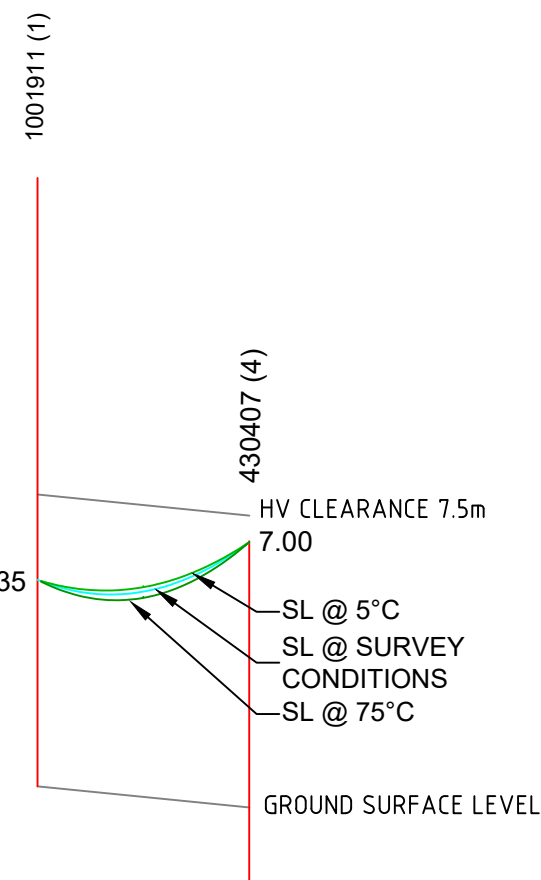
PART LINE PROFILE - 33kV FEEDER 452 (POLE 43065-889254)
ALONG LONDONDERRY ROAD

SCALES



PART LINE PROFILE - 33kV FEEDER 452 (POLE 84438-430399)
ALONG LONDONDERRY ROAD

SCALES



PART LINE PROFILE - STREETLIGHT FEEDER (POLE 1001911-430407)
ALONG THE DRIFTWAY ROAD CROSSING

SCALES

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

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SID:	Substation Design Instruction
SAC 0001:	Design Drawing Standard
MA:	Mains Maintenance Instruction
SM:	Substation Maintenance Instruction
LDI 0001:	Public Lighting Electrical Design Element

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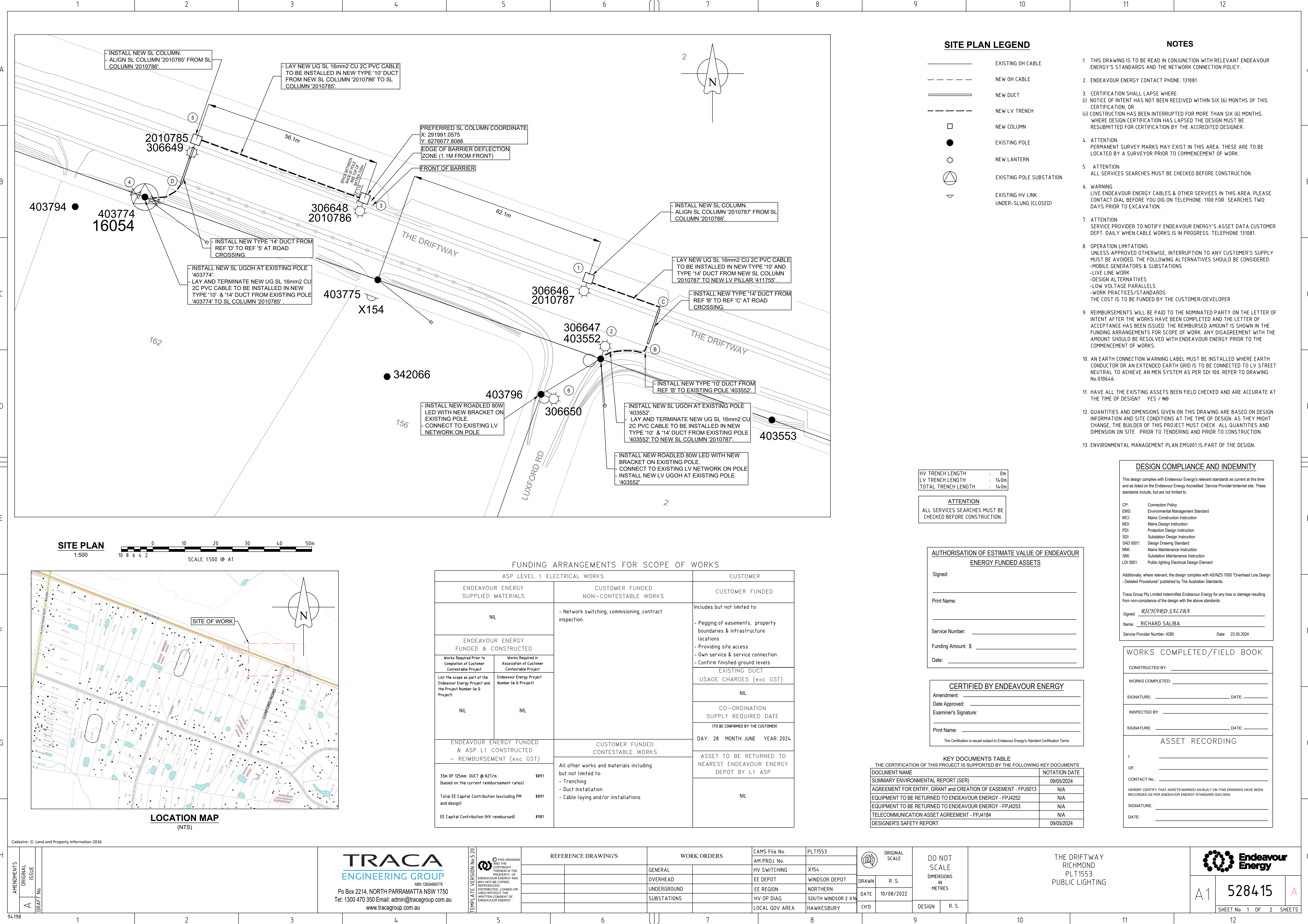
Signed: 

Name: **RICHARD SALIBA**

Service Provider Number: 4280

Date: 22.02.2024

WORKS COMPLETED/FIELD BOOK	
CONSTRUCTED BY:	_____
WORKS COMPLETED:	_____
SIGNATURE: _____	DATE: _____
INSPECTED BY: _____	
SIGNATURE: _____	DATE: _____
ASSET RECORDING	
I:	_____
OF:	_____
CONTACT No.:	_____
HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOR ENERGY STANDARD SAD 0004.	
SIGNATURE:	_____
DATE:	_____



SITE PLAN LEGEND

- EXISTING OH CABLE
- NEW OH CABLE
- NEW DUCT
- NEW LV TRENCH
- NEW COLUMN
- EXISTING POLE
- NEW LANTERN
- EXISTING POLE SUBSTATION
- EXISTING HV LINK UNDER-SLUNG (CLOSED)

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT ENDEAVOUR ENERGY'S STANDARDS AND THE NETWORK CONNECTION POLICY.
- ENDEAVOUR ENERGY CONTACT PHONE: 131081
- CERTIFICATION SHALL LAPSE WHERE:
 - (i) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN SIX (6) MONTHS OF THIS CERTIFICATION, OR
 - (ii) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN SIX (6) MONTHS. WHERE DESIGN CERTIFICATION HAS LAPSED THE DESIGN MUST BE RESUBMITTED FOR CERTIFICATION BY THE ACCREDITED DESIGNER.
- ATTENTION: PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED BY A SURVEYOR PRIOR TO COMMENCEMENT OF WORK.
- ATTENTION: ALL SERVICES SEARCHES MUST BE CHECKED BEFORE CONSTRUCTION.
- WARNING: LIVE ENDEAVOUR ENERGY CABLES & OTHER SERVICES IN THIS AREA. PLEASE CONTACT DIAL BEFORE YOU DIG ON TELEPHONE: 1100 FOR SEARCHES TWO DAYS PRIOR TO EXCAVATION.
- ATTENTION: SERVICE PROVIDER TO NOTIFY ENDEAVOUR ENERGY'S ASSET DATA CUSTOMER DEPT. DAILY WHEN CABLE WORKS IS IN PROGRESS. TELEPHONE 131081.
- OPERATION LIMITATIONS: UNLESS APPROVED OTHERWISE, INTERRUPTION TO ANY CUSTOMER'S SUPPLY MUST BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
 - MOBILE GENERATORS & SUBSTATIONS
 - LIVE LINE WORK
 - DESIGN ALTERNATIVES
 - LOW VOLTAGE PARALLELS
 - WORK PRACTICES/STANDARDSTHE COST IS TO BE FUNDED BY THE CUSTOMER/DEVELOPER
- REIMBURSEMENTS WILL BE PAID TO THE NOMINATED PARTY ON THE LETTER OF INTENT AFTER THE WORKS HAVE BEEN COMPLETED AND THE LETTER OF ACCEPTANCE HAS BEEN ISSUED. THE REIMBURSED AMOUNT IS SHOWN IN THE FUNDING ARRANGEMENTS FOR SCOPE OF WORK. ANY DISAGREEMENT WITH THE AMOUNT SHOULD BE RESOLVED WITH ENDEAVOUR ENERGY PRIOR TO THE COMMENCEMENT OF WORKS.
- AN EARTH CONNECTION WARNING LABEL MUST BE INSTALLED WHERE EARTH CONDUCTOR OR AN EXTENDED EARTH GRID IS TO BE CONNECTED TO LV STREET NEUTRAL TO ACHIEVE AN MEN SYSTEM AS PER SDI 100. REFER TO DRAWING No.010646.
- HAVE ALL THE EXISTING ASSETS BEEN FIELD CHECKED AND ARE ACCURATE AT THE TIME OF DESIGN? YES / NO
- QUANTITIES AND DIMENSIONS GIVEN ON THIS DRAWING ARE BASED ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS THEY MIGHT CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSION ON SITE PRIOR TO TENDERING AND PRIOR TO CONSTRUCTION.
- ENVIRONMENTAL MANAGEMENT PLAN EMS001 IS PART OF THE DESIGN.

DESIGN COMPLIANCE AND INDEMNITY

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Signed: RICHARD SALIBA
Name: RICHARD SALIBA
Service Provider Number: 4280 Date: 23.05.2024

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

AUTHORISATION OF ESTIMATE VALUE OF ENDEAVOUR ENERGY FUNDED ASSETS

Signed: _____

Print Name: _____

Service Number: _____

Funding Amount: \$ _____

Date: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

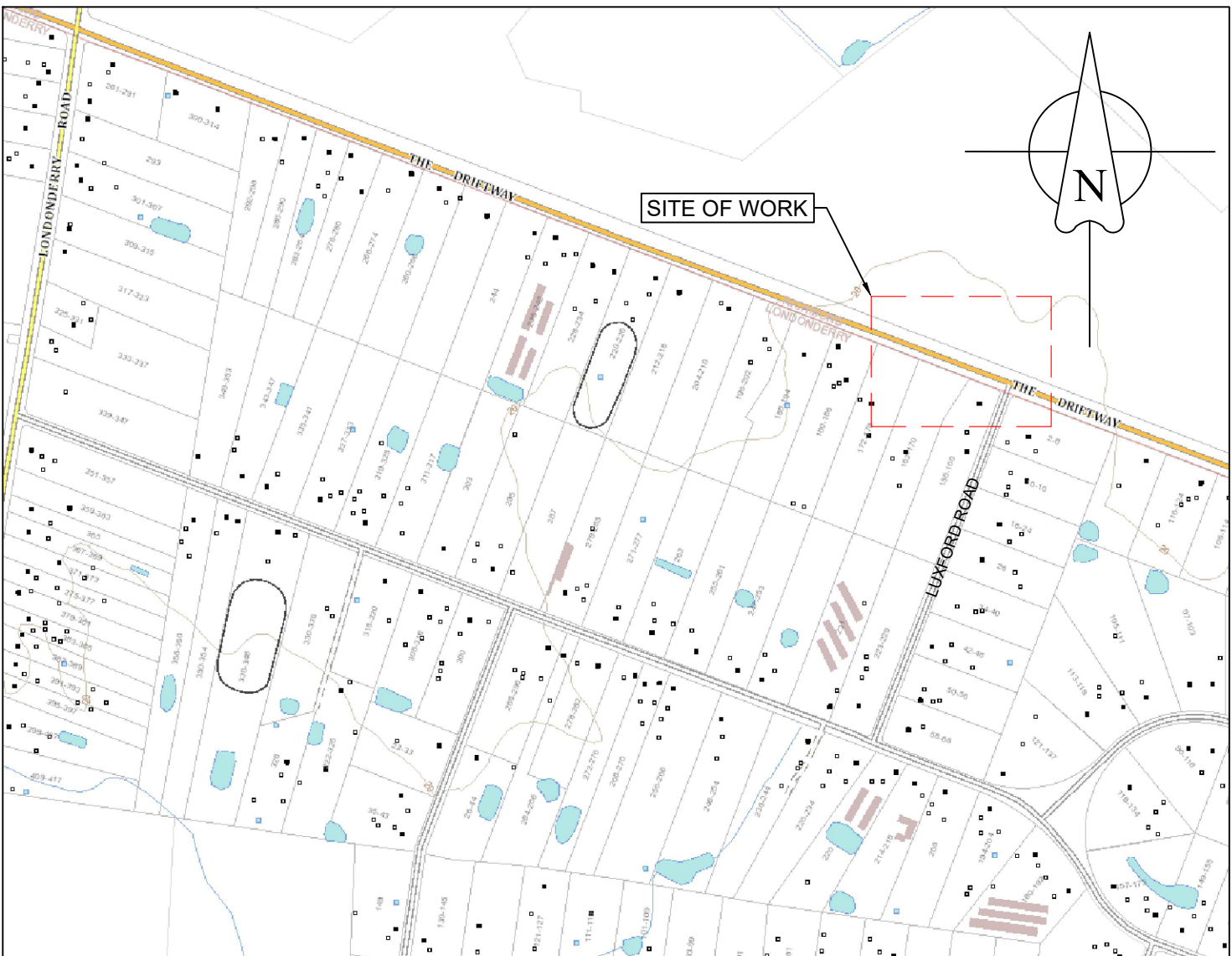
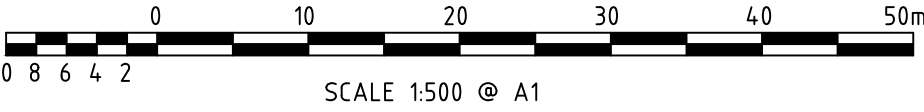
KEY DOCUMENTS TABLE

THE CERTIFICATION OF THIS PROJECT IS SUPPORTED BY THE FOLLOWING KEY DOCUMENTS	
DOCUMENT NAME	NOTATION DATE
SUMMARY ENVIRONMENTAL REPORT (SER)	09/05/2024
AGREEMENT FOR ENTRY, GRANT AND CREATION OF EASEMENT - FPJ4253	N/A
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4252	N/A
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4253	N/A
TELECOMMUNICATION ASSET AGREEMENT - FPJ4184	N/A
DESIGNER'S SAFETY REPORT	09/05/2024

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS		CUSTOMER
ENDEAVOUR ENERGY SUPPLIED MATERIALS	CUSTOMER FUNDED NON-CONTESTABLE WORKS	CUSTOMER FUNDED
NIL	- Network switching, commissioning, contract inspection.	Includes but not limited to: <ul style="list-style-type: none">- Pegging of easements, property boundaries & infrastructure locations- Providing site access- Own service & service connection- Confirm finished ground levels
ENDEAVOUR ENERGY FUNDED & CONSTRUCTED		EXISTING DUCT USAGE CHARGES (exc GST)
Works Required Prior to Completion of Customer Contestable Project	Works Required in Association of Customer Contestable Project	
NIL	NIL	NIL
ENDEAVOUR ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSEMENT (exc GST)	CUSTOMER FUNDED CONTESTABLE WORKS	CO-ORDINATION SUPPLY REQUIRED DATE (TO BE CONFIRMED BY THE CUSTOMER)
33m OF 125mm DUCT @ \$27/m (based on the current reimbursement rates)	All other works and materials including but not limited to: <ul style="list-style-type: none">- Trenching- Duct Installation- Cable laying and/or installations	DAY: 28 MONTH: JUNE YEAR: 2024
Total EE Capital Contribution (excluding PM and design)		ASSET TO BE RETURNED TO NEAREST ENDEAVOUR ENERGY DEPOT BY L1 ASP
EE Capital Contribution (HV reimbursed)		NIL

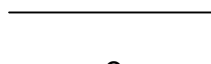
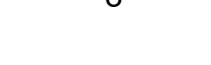







SITE PLAN

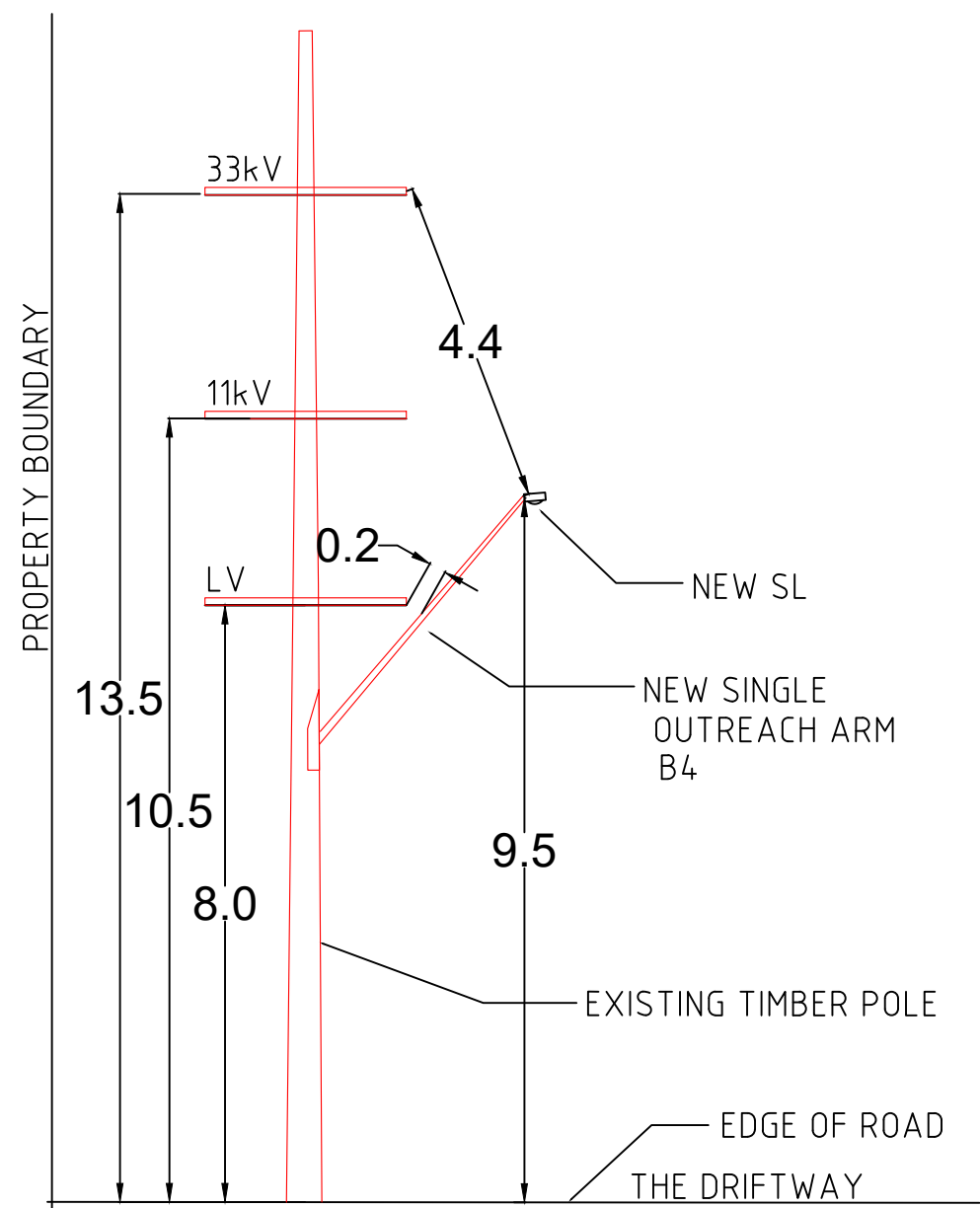
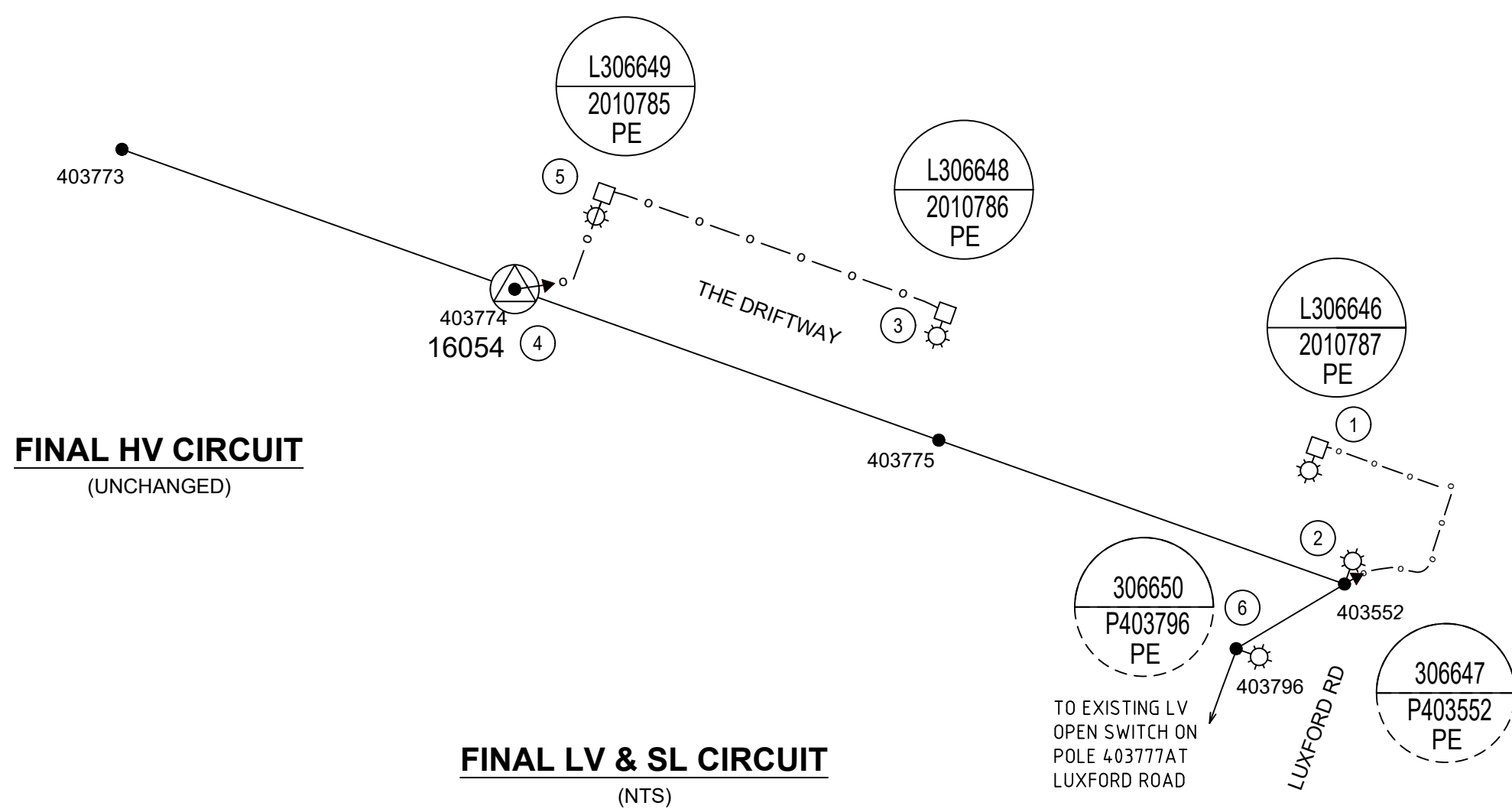


LOCATION MAP (NTS)

LIGHTING EQUIPMENT SCHEDULE																			
ITEM ID	STATE	SL NUMBER	SUPPORT NUMBER	LUMINAIRE				COLUMN/POLE					BRACKET/OUTREACH			UPCAST	CATEGORY	CHARGE TO	MOUNTING HEIGHT
		EXISTING/ NEW	EXISTING/ NEW	DESCRIPTION	PART NO	QTY	RATE CODE	DESCRIPTION	PART NO	FOOTING (BOLT/FOUNDATION)	QTY	RATE CODE	DESCRIPTION	PART NO	RATE CODE				
1	NEW	306646	2010787	80W ROADLED MIDI WITH AEROSCREEN	PM99G15L80	1	962	10.0m ENLARGED BASE COLUMN	IE/EB 10.0	TYPE 3 / TYPE 3	1	996	3.0m CURVED OUTREACH	IE4.5CPS (S/C 154.0228)	991	5°	V5	HAWKESBURY CITY COUNCIL (100%)	12m
2	NEW	306647	EXIST. POLE 403552	80W ROADLED MIDI WITH AEROSCREEN	PM99G15L80	1	962	-	-	-	-	-	2.75m BRACKET	IE-B4	890	5°	V5	HAWKESBURY CITY COUNCIL (100%)	9.5m
3	NEW	306648	2010786	80W ROADLED MIDI WITH AEROSCREEN	PM99G15L80	1	962	10.0m ENLARGED BASE COLUMN	IE/EB 10.0	TYPE 3 / TYPE 3	1	996	3.0m CURVED OUTREACH	IE4.5CPS (S/C 154.0228)	991	5°	V5	HAWKESBURY CITY COUNCIL (100%)	12m
5	NEW	306649	2010785	80W ROADLED MIDI WITH AEROSCREEN	PM99G15L80	1	962	10.0m ENLARGED BASE COLUMN	IE/EB 10.0	TYPE 3 / TYPE 3	1	996	3.0m CURVED OUTREACH	IE4.5CPS (S/C 154.0228)	991	5°	V5	HAWKESBURY CITY COUNCIL (100%)	12m
6	NEW	306650	EXIST. POLE 403796	80W ROADLED MIDI WITH AEROSCREEN	PM99G15L80	1	962	-	-	-	-	-	2.75m BRACKET	IE-B4	890	5°	V5	HAWKESBURY CITY COUNCIL (100%)	9.5m

LV & SL CIRCUIT LEGEND

- | | |
|---|---|
|  | EXISTING LV OH CABLE |
|  | LAY 16mm ² 2C CU PVC/PVC IN 50mm PVC CONDUIT
R.L. = 14.0m
C.L. = 15.4m |
|  | NEW LANTERN |
|  | EXISTING POLE |
|  | NEW COLUMN |
|  | NEW LV UG OH |
|  | NEW LUMINAIRE AND COLUMN NUMBER WITH
PHOTOELECTRIC CONTROL |
|  | NEW LUMINAIRE AND EXISTING POLE NUMBER WITH
PHOTOELECTRIC CONTROL |
|  | EXISTING POLE SUBSTATION |


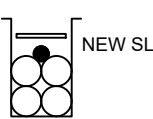
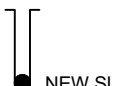


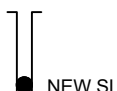


PROPOSED STREET LIGHTING
EXISTING POLE




NOT TO SCALE

APPLIES TO POLE No. 403552

	403796			9.5	-	-	0	EX	EX	EX	EX	EX						X		P6
	403775			-	-	-	0	EX	EX + LVUGOH	EX	EX	EX						X		P4
	403552			9.5	NEW B4	-	0	EX	EX + LVUGOH	EX	EX	EX						X		P2
NEW	EXISTING	EXISTING	REPLACE	MOUNTING HEIGHT (m)	BRACKET	SPAN LENGTH (m)	LINE DEV DEGREES	HV	LV	DIAMETER (mm)	DEPTH (m)	TYPE (m/kN)	STAY	FOOTING	RELOCATE	REPLACE	NEW	EXISTING	REMOVE	NUMBER
FIELD POLE NUMBER		LANTERNS			CONSTRUCTION				HOLE			POLE								

DUCT BREAKDOWN TABLE				
Route	Configuration	Route Length (m)	Reimbursement (m) x (\$)	Existing Duct Usage Charge (m) x (\$)
2 - B	<div>ROAD RESERVE (New Duct)</div> 	14	NIL	NIL
B - C	<div>ROADWAY (New Duct)</div> 	12	12m OF 1x125mm DUCT @\$27.00/m = 324	NIL
C - 1	<div>ROAD RESERVE (New Duct)</div> 	24	NIL	NIL
4 - D	<div>ROAD RESERVE (New Duct)</div> 	13	NIL	NIL
D - 5	<div>ROADWAY (New Duct)</div> 	21	21m OF 1x125mm DUCT @\$27.00/m = 567	NIL
5 - 3	<div>ROAD RESERVE (New Duct)</div> 	56	NIL	NIL
		140		

DUCT LEGEND

 NEW TRENCH
  SPARE DUCT
  DUCT WITH NEW CABLE

SPARE DUCT REQUIREMENT

1. IN AREAS WHERE ADDITIONAL DUCTS ARE REQUIRED THE SPARE DUCT IS INCLUDED IN THE PVC DUCT SCHEDULE & THE SECTION SHOWN.

NOTE

1. DUCT LENGTHS AND ARRANGEMENTS TO BE CONFIRMED ON SITE.

2. ALL TRENCH SECTIONS ARE TO BE READ & VIEWED FROM NODE TO NODE AS NOMINATED

<p align="center"><u>CERTIFIED BY ENDEAVOUR ENERGY</u></p> <p>Amendment: _____</p> <p>Date Approved: _____</p> <p>Examiner's Signature: _____</p> <p>Print Name: _____</p> <p align="center">This Certification is issued subject to Endeavour Energy's Standard Certification Terms</p>	
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SML:	Substation Maintenance Instruction
LDD 0001:	Public Lighting Electrical Design Element

Additionally, where relevant, the design complies with AS/NZS 7000 "Overhead Line Design - Detailed Procedures" published by The Australian Standards.

Traca Group Pty Limited indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed: RICHARD SALIBA

Name: RICHARD SALIBA

Service Provider Number: 4280 Date: 23.05.2024

<h1 style="margin: 0;">WORKS COMPLETED/FIELD BOOK</h1>	
CONSTRUCTED BY: _____	
WORKS COMPLETED: _____	
SIGNATURE: _____	DATE: _____
INSPECTED BY: _____	
SIGNATURE: _____	DATE: _____
<h2 style="margin: 0;">ASSET RECORDING</h2>	
I: _____	
OF: _____	
CONTACT No.: _____	
HEREBY CERTIFY THAT ASSETS MARKED AS BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDAVEOR ENERGY STANDARD S&D 0004.	
SIGNATURE: _____	
DATE: _____	

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ITEM ID

STATE

SL NUMBER

SUPPORT NUMBER

LUMINAIRE

COLUMN/POLE

BRACKET/OUTREACH

UPCAST

CATEGORY

CHARGE TO

MOUNTING HEIGHT

EXISTING/NEW

EXISTING/NEW

DESCRIPTION

PART NO

QTY

RATE CODE

DESCRIPTION

PART NO

FOOTING (BOLT/FOUNDATION)

QTY

RATE CODE

DESCRIPTION

PART NO

RATE CODE

2

NEW

311990

2009465

80W ROADLED MIDI WITH AEROSCREEN

PM99G16L80

1

962

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1545219)

991

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

3

NEW

311991

2009466

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L80

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

1.5m CURVED OUTREACH

IE15CPS (S/C 1545193)

990

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

4

NEW

311992

2009467

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L80

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

1.5m CURVED OUTREACH

IE15CPS (S/C 1545193)

990

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

5

NEW

311993

2009468

80W ROADLED MIDI WITH AEROSCREEN

PM99G16L165

1

962

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

3.0m CURVED OUTREACH

IE3.0CPS (S/C 1545201)

991

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

6

NEW

311994

2009469

80W ROADLED MIDI WITH AEROSCREEN

PM99G16L165

1

962

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

3.0m CURVED OUTREACH

IE3.0CPS (S/C 1545201)

991

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

7

NEW

311995

2009470

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L80

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

1.5m CURVED OUTREACH

IE15CPS (S/C 1545193)

990

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

8

NEW

311996

2009471

80W ROADLED MIDI WITH AEROSCREEN

PM99G16L80

1

962

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1545219)

991

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

9

NEW

311997

2009472

80W ROADLED MIDI WITH AEROSCREEN

PM99G16L80

1

962

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1545219)

991

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

10

NEW

311998

2009473

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L80

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

1.5m CURVED OUTREACH

IE15CPS (S/C 1545193)

990

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

11

REMOVE

77833

EXIST. POLE

EXISTING 70W LED ROADLED MIDI

EXIST.

1

661

-

-

-

-

-

EXIST.

EXIST.

224

-

-

EXISTING

12

NEW

311999

2009474

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L80

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

1.5m CURVED OUTREACH

IE15CPS (S/C 1545193)

990

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

13

NEW

312000

2009475

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L80

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

1.5m CURVED OUTREACH

IE15CPS (S/C 1545193)

990

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

14

NEW

312001

2009476

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L80

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

1.5m CURVED OUTREACH

IE15CPS (S/C 1545193)

990

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

15

NEW

312002

2009477

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L80

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

1.5m CURVED OUTREACH

IE15CPS (S/C 1545193)

990

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

16

NEW

312003

2009478

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L80

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

1.5m CURVED OUTREACH

IE15CPS (S/C 1545193)

990

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

17

NEW

312014

2009489

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L165

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1540228)

991

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

18

NEW

312013

2009488

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L165

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1540228)

991

5°

V3

HAWKESBURY CITY COUNCIL (100%)

9m

19

NEW

312012

2009487

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L165

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1540228)

991

5°

V3

HAWKESBURY CITY COUNCIL (100%)

9m

20

NEW

312004

2009479

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L80

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

1.5m CURVED OUTREACH

IE15CPS (S/C 1545193)

990

5°

V5

HAWKESBURY CITY COUNCIL (100%)

9m

21

NEW

312005

2009480

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L165

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1540228)

991

5°

V3

HAWKESBURY CITY COUNCIL (100%)

9m

22

NEW

312006

2009481

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L165

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1540228)

991

5°

V3

HAWKESBURY CITY COUNCIL (100%)

9m

23

NEW

312007

2009482

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L165

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1540228)

991

5°

V3

HAWKESBURY CITY COUNCIL (100%)

9m

24

NEW

312008

2009483

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L165

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1540228)

991

5°

V3

HAWKESBURY CITY COUNCIL (100%)

9m

25

NEW

312009

2009484

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L165

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1540228)

991

5°

V3

HAWKESBURY CITY COUNCIL (100%)

9m

26

NEW

312010

2009485

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L165

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1540228)

991

5°

V3

HAWKESBURY CITY COUNCIL (100%)

9m

27

NEW

312011

2009486

165W ROADLED MIDI WITH AEROSCREEN VISOR

PM99G16L165

1

964

7.0m ENLARGED BASE COLUMN

IE/EB 7.0

TYPE 2 / TYPE 2

1

995

4.5m CURVED OUTREACH

IE4.5CPS (S/C 1540228)

991

5°

V3

HAWKESBURY CITY COUNCIL (100%)

9m

DUCT END LOCATION DETAIL

GROUND LEVEL

300mm

DEVELOPER TO ATTACH PVC MARKER TAPE TO DUCT END

DUCT

DUCT

DUCT

DUCT SPACING NTS

0.60m

0.90m

ROAD CROSSING DUCT

0.90m

0.60m

FIRST SPLAY PEG

PROPERTY BOUNDARY

SERVICE DUCT

PROPERTY BOUNDARY

0.90m

0.90m

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

DESIGN COMPLIANCE AND INDEMNITY

This design complies with Endeavour Energy's relevant standards as current at this time and as listed on the Endeavour Energy Accredited Service Provider's internet site. These standards include, but are not limited to:

CP: Connection Policy

EMS: Environmental Management Standard

MCI: Mains Construction Instruction

MDI: Mains Design Instruction

PDI: Protection Design Instruction

SDI: Substation Design Instruction

SAD 0001: Design Drawing Standard


MMI: Mains Maintenance Instruction

SMI: Substation Maintenance Instruction

LDI 0001: Public Lighting Electrical Design Element

Additionally, where relevant, the design complies with AS/NZS 7000 "Overhead Line Design - Detailed Procedures" published by The Australian Standards.

Traca Group Australia Pty Limited indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed:  Name: **RICHARD SALIBA**

Service Provider Number: 4280 Date: 12.01.2024

AMENDMENTS

ORIGINAL

ISSUE

DRAFT No.

1

2

3

4

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12

TRACA

ENGINEERING GROUP

ABN 1204089778

Po Box 2214, NORTH PARRAMATTA NSW 1750

Tel: 1300 470 350 Email: admin@tracagroup.com.au

www.tracagroup.com.au

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REFERENCE DRAWING'S

GENERAL

OVERHEAD

UNDERGROUND

SUBSTATIONS

WORK ORDERS

AM PROJ. No.

HV SWITCHING

EE DEPOT

EE REGION

HV OP DIAG

LOCAL GOV AREA

CAMS File No.

PLT1674

ORIGINAL SCALE

NTS

DRAWN

J.R.

DATE

27/11/2023

CHD

R.S.

DO NOT SCALE DIMENSIONS IN METRES

GDA2020

COORDINATE SYSTEM

THE DRIFTWAY, BLACKTOWN ROAD

AND RICHMOND ROAD

PLT1674

PUBLIC LIGHTING

A1

531838

A

SHEET No 2 OF 4 SHEETS

101591

1

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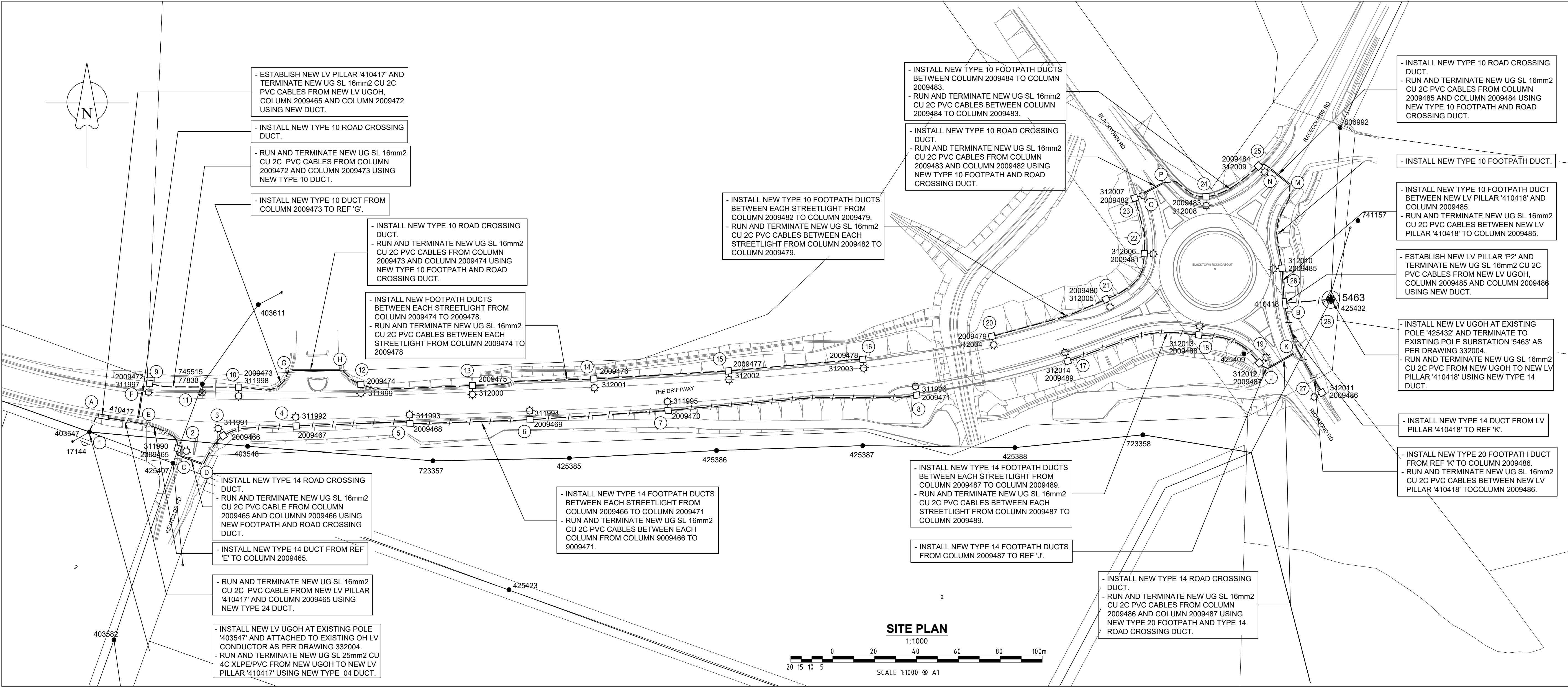
8

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12



HV TRENCH LENGTH	: 0m
LV TRENCH LENGTH	: 0m
TOTAL TRENCH LENGTH	: 0m

SITE PLAN LEGEND

- EXISTING OVERHEAD MAINS
- NEW TRENCH
- NEW PILLAR
- NEW SL COLUMN
- EXISTING LANTERN
- EXISTING LANTERN REMOVE
- NEW LANTERN
- EXISTING POLE
- EXISTING POLE MOUNTED SUBSTATION



WARNING:
ASP L1 TO IDENTIFY AND VERIFY CORRECT CABLE PRIOR TO REMOVAL

ATTENTION
ALL SERVICES SEARCHES MUST BE CHECKED BEFORE CONSTRUCTION.

NOTE
- HV HAS NOT BEEN SHOWN FOR CLARITY PURPOSES.

AUTHORISATION OF ESTIMATE VALUE OF ENDEAVOUR ENERGY FUNDED ASSETS

Signed: _____

Print Name: _____

Service Number: _____

Funding Amount: \$ _____

Date: _____

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS		CUSTOMER
ENDEAVOUR ENERGY SUPPLIED MATERIALS		CUSTOMER FUNDED
NIL		- Network switching, commissioning and contract inspection. Includes but not limited to: - Pegging of easements, property boundaries & infrastructure locations - Providing site access - Own service & service connection - Confirm finished ground levels
ENDEAVOUR ENERGY FUNDED & CONSTRUCTED		EXISTING DUCT USAGE CHARGES (exc GST)
Works Required Prior to Completion of Customer Contestable Project	Works Required in Association of Customer Contestable Project	0m @ \$ 27/m = \$ 0.00 (based on current reimbursement rates)
List the scope as part of the Endeavour Energy Project and the Project Number (ie G Project)	Endeavour Energy Project Number (ie G Project)	CO-ORDINATION SUPPLY REQUIRED DATE (TO BE CONFIRMED BY THE CUSTOMER)
NIL	NIL	DAY: 1 MONTH: APRIL YEAR: 2024
ENDEAVOUR ENERGY FUNDED & ASP L1 CONSTRUCTED – REIMBURSEMENT (exc GST)		CUSTOMER FUNDED CONTESTABLE WORKS
- 573m OF 125mm DUCT @ \$27/m = \$15,471 (BASED ON THE CURRENT REIMBURSEMENT RATES) TOTAL REIMBURSEMENT = \$ 15,471		All other works and materials including but not limited to: - Trenching - Duct Installation - Cable laying and/or installations
		ASSET TO BE RETURNED TO NEAREST ENDEAVOUR ENERGY DEPOT BY L1 ASP
		NIL

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

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Signed: *[Signature]*
Name: **RICHARD SALIBA**
Service Provider Number: 4280 Date: 12/01/2024

KEY DOCUMENTS TABLE

THE CERTIFICATION OF THIS PROJECT IS SUPPORTED BY THE FOLLOWING KEY DOCUMENTS	
DOCUMENT NAME	NOTATION DATE
SUMMARY ENVIRONMENTAL REPORT (SER)	12/01/2024
AGREEMENT FOR ENTRY, GRANT AND CREATION OF EASEMENT - FPJ42513	N/A
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4252	N/A
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4253	N/A
TELECOMMUNICATION ASSET AGREEMENT - FPJ4184	N/A
DESIGNER'S SAFETY REPORT	01/10/2024

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DUCT BREAKDOWN TABLE

Route	Configuration	Route Length (m)	Reimbursement (m) x (\$)	Existing Duct Usage Charge (m) x (\$)
1 - A	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	7	7m OF 1x125mm DUCT @\$27.00/m = 189	NIL
A - E	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	17	17m OF 1x125mm DUCT @\$27.00/m = 459	NIL
E - C	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	33	33m OF 1x125mm DUCT @\$27.00/m = 891	NIL
C - D	<div>ROADWAY (New Duct)</div> <div>NEW SL</div>	10	10m OF 1x125mm DUCT @\$27.00/m = 270	NIL
D - 8	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	350	350m OF 1x125mm DUCT @\$27.00/m = 9450	NIL
E - F	<div>ROADWAY (New Duct)</div> <div>NEW SL</div>	12	12m OF 1x125mm DUCT @\$27.00/m = 324	NIL
9 - G	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	72	NIL	NIL
G - H	<div>ROADWAY (New Duct)</div> <div>NEW SL</div>	23	NIL	NIL
H - 16	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	252	NIL	NIL
17 - J	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	103	103m OF 1x125mm DUCT @\$27.00/m = 2781	NIL
J - K	<div>ROADWAY (New Duct)</div> <div>NEW SL</div>	13	13m OF 1x125mm DUCT @\$27.00/m = 351	NIL
K - B	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	24	24m OF 1x125mm DUCT @\$27.00/m = 648	NIL
K - 27	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	24	NIL	NIL
B - 28	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	16	16m OF 1x125mm DUCT @\$27.00/m = 432	NIL
B - M	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	58	NIL	NIL
M - N	<div>ROADWAY (New Duct)</div> <div>NEW SL</div>	11	NIL	NIL

DUCT BREAKDOWN TABLE

Route	Configuration	Route Length (m)	Reimbursement (m) x (\$)	Existing Duct Usage Charge (m) x (\$)
N - P	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	60	NIL	NIL
P - Q	<div>ROADWAY (New Duct)</div> <div>NEW SL</div>	10	NIL	NIL
23 - 20	<div>FOOTPATH (New Duct)</div> <div>NEW SL</div>	115	NIL	NIL

DUCT LEGEND

NEW TRENCH SPARE DUCT DUCT WITH NEW CABLE

SPARE DUCT REQUIREMENT

1. IN AREAS WHERE ADDITIONAL DUCTS ARE REQUIRED THE SPARE DUCT IS INCLUDED IN THE PVC DUCT SCHEDULE & THE SECTION SHOWN.

NOTE

1. DUCT LENGTHS AND ARRANGEMENTS TO BE CONFIRMED ON SITE.

2. ALL TRENCH SECTIONS ARE TO BE READ & VIEWED FROM NODE TO NODE AS NOMINATED

101591

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AMENDMENTS

ORIGINAL ISSUE

DRAFT No.

A

101591

1

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TRACA

ENGINEERING GROUP

ABN 12604689776

Po Box 2214, NORTH PARRAMATTA NSW 1750

Tel: 1300 470 350 Email: admin@tracagroup.com.au

www.tracagroup.com.au

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TEMPLATE VERSION No 5.20

REFERENCE DRAWING'S

WORK ORDERS

CAMS File No.

PLT1674

AM PROJ. No.

HV SWITCHING

NDT REQUIRED

EE DEPOT

PENRITH

EE REGION

NORTHERN

HV OP DIAG

LOCAL GOV AREA

HAWKESBURY

ORIGINAL SCALE NTS

DRAWN

J.R.

DATE

27/11/2023

CH'D

R.S.

DO NOT SCALE DIMENSIONS IN METRES

GDA2020 COORDINATE SYSTEM

DESIGN

J.R.

THE DRIFTWAY, BLACKTOWN ROAD AND RICHMOND ROAD

PLT1674

PUBLIC LIGHTING

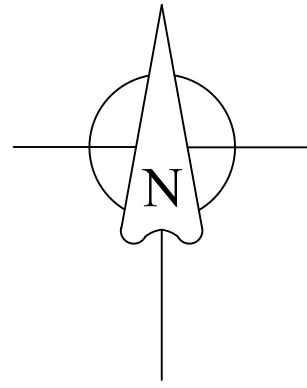
A1

531838

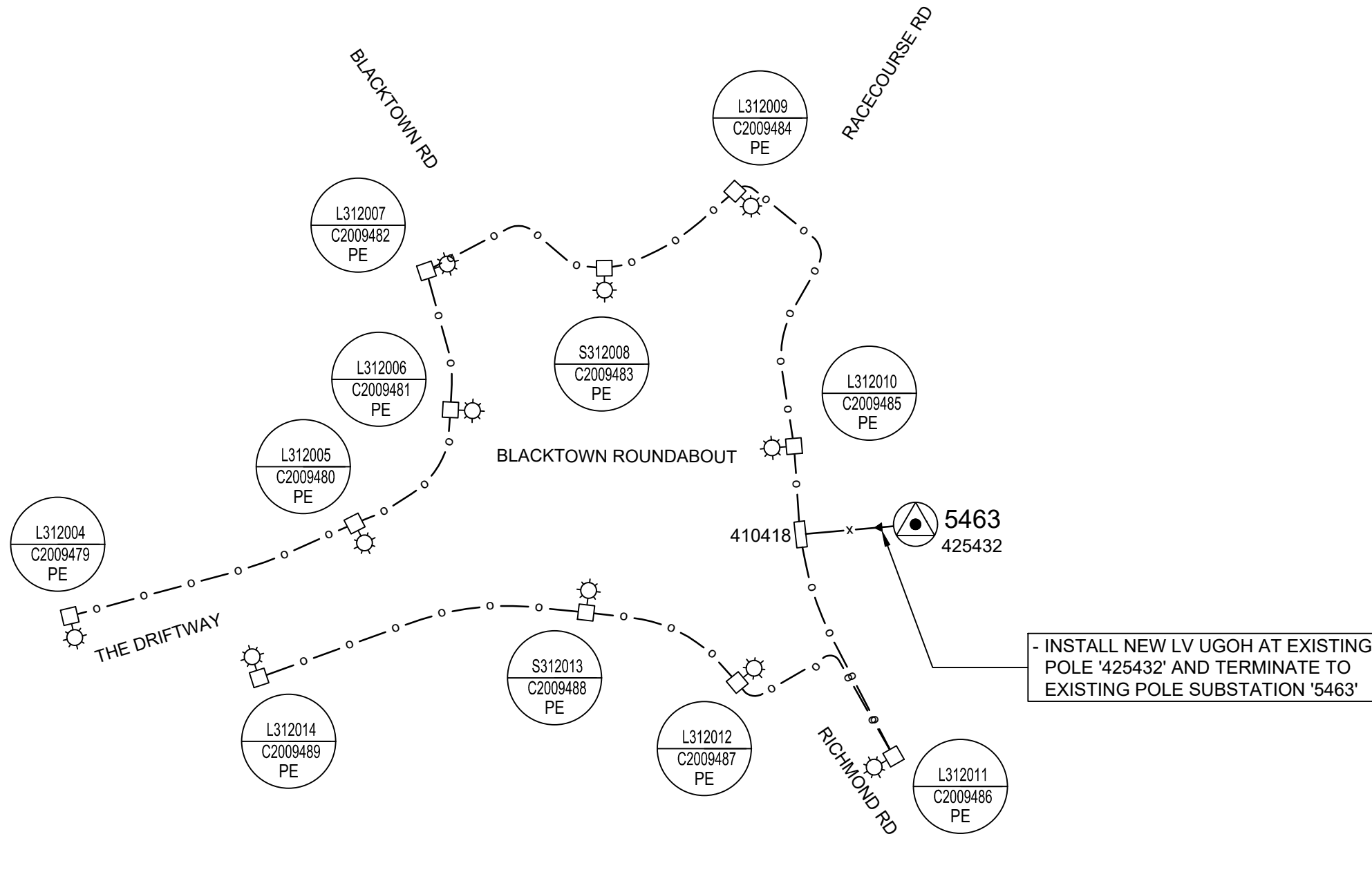
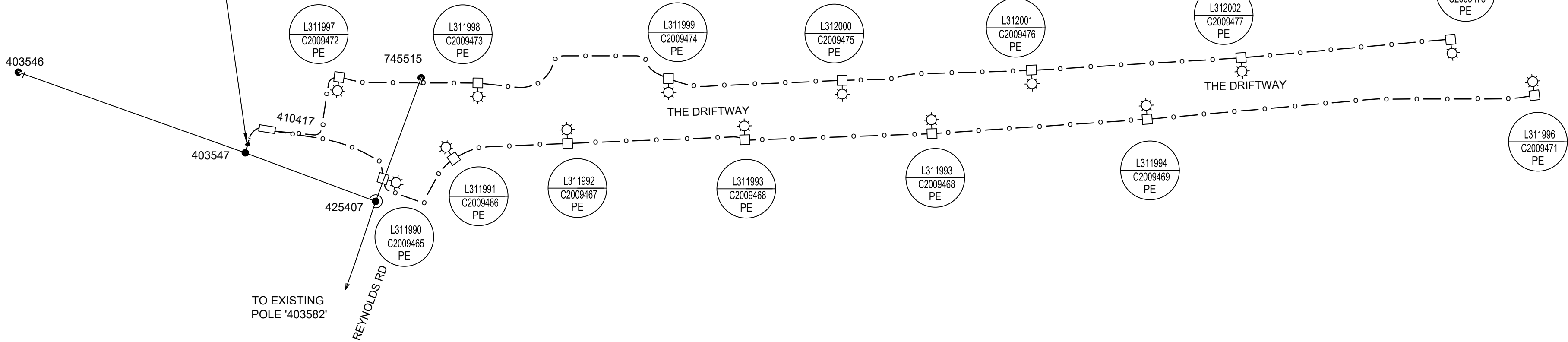
A

SHEET No 3 OF 4 SHEETS

FINAL HV CIRCUIT
FINAL LV CIRCUIT
(UNCHANGED)



- INSTALL NEW LV UGOH AT EXISTING
POLE '403547' AND ATTACHED TO
EXISTING OH LV CONDUCTOR.



PROPOSED LV & SL CIRCUIT
(NTS)

SL CIRCUIT LEGEND

- EXISTING OVERHEAD LV MAINS
- LAY 16mm² 2C CU PVC/PVC IN 50mm PVC CONDUIT
R.L. = 1261m C.L. = 1387m
- LAY 25mm² 4C CU XLPE/PVC IN 50mm PVC CONDUIT
R.L. = 33m C.L. = 36m
- LV UGOH
- EXISTING POLE
- EXISTING LANTERN
- NEW LANTERN
- NEW COLUMN
- EXISTING POLE MOUNTED
SUBSTATION
- NEW LUMINAIRE AND NEW COLUMN NUMBER
WITH PHOTOELECTRIC CONTROL

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____
Date Approved: _____
Examiner's Signature: _____
Print Name: _____
This Certification is issued subject to Endeavour Energy's Standard Certification Terms

DESIGN COMPLIANCE AND INDEMNITY

This design complies with Endeavour Energy's relevant standards as current at this time and as listed on the Endeavour Energy Accredited Service Provider's internet site. These standards include, but are not limited to:

CP: Connection Policy
EMS: Environmental Management Standard
MCI: Mains Construction Instruction
MDI: Mains Design Instruction
PDI: Protection Design Instruction
SDI: Substation Design Instruction
SAD 0001: Design Drawing Standard
MMI: Mains Maintenance Instruction
SMI: Substation Maintenance Instruction
LDI 0001: Public lighting Electrical Design Element

Additionally, where relevant, the design complies with AS/NZS 7000 "Overhead Line Design - Detailed Procedures" published by The Australian Standards.

Traca Group Australia Pty Limited indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed: _____
Name: RICHARD SALIBA
Service Provider Number: 4280 Date: 12.01.2024

WORKS COMPLETED/FIELD BOOK

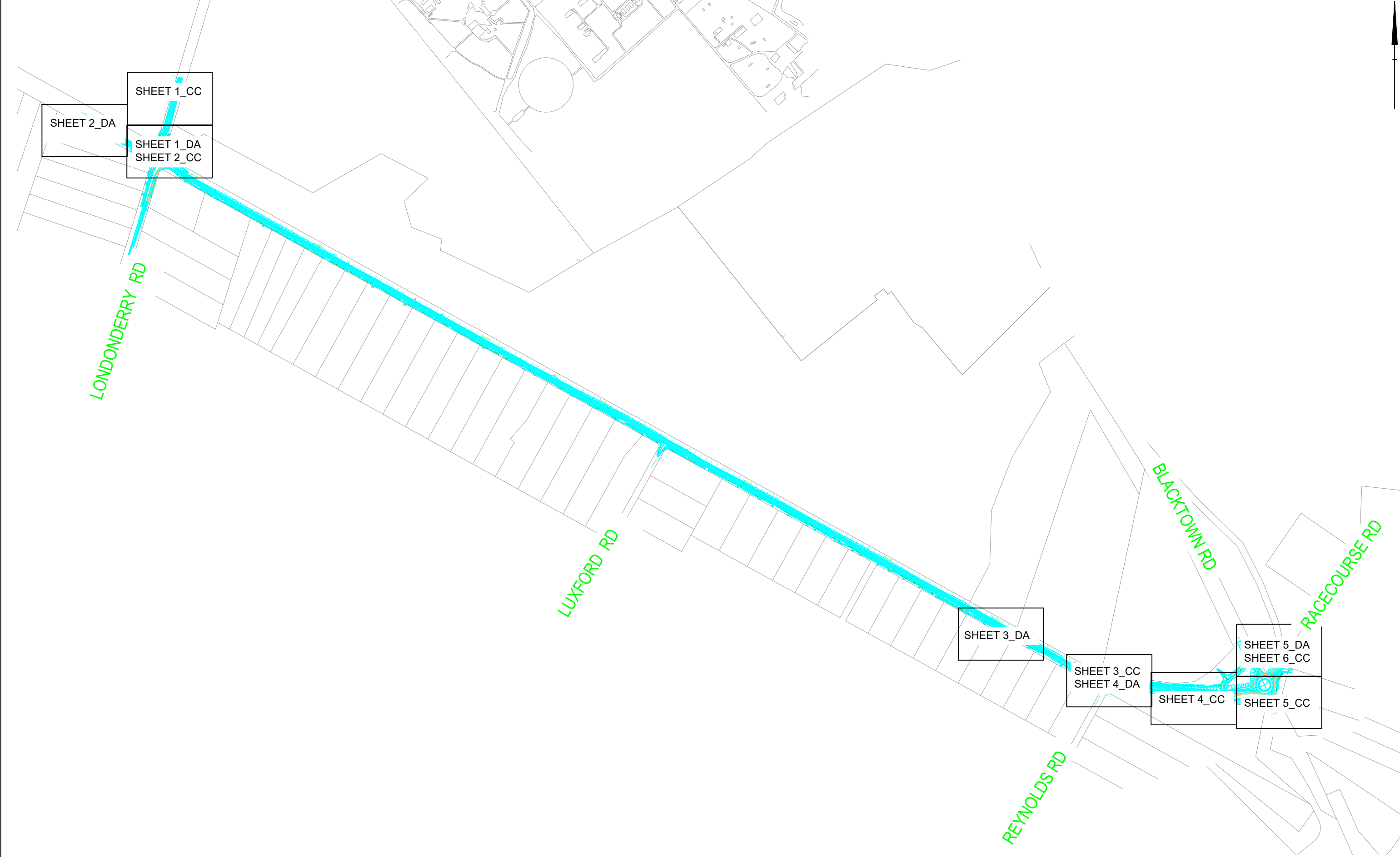
CONSTRUCTED BY: _____
WORKS COMPLETED: _____
SIGNATURE: _____ DATE: _____
INSPECTED BY: _____
SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____
OF: _____
CONTACT No.: _____
HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN
RECORDED AS PER ENDEAVOR ENERGY STANDARD SAD 0004.
SIGNATURE: _____
DATE: _____

Cadastre: © Land and Property Information 2016

AMENDMENTS	ORIGINAL ISSUE	DRAFT No.	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120
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LEGEND

EXISTING TELSTRA MANHOLE

PROPOSED TELSTRA MANHOLE

5

EXISTING TELSTRA 5PIT

5

PROPOSED TELSTRA 5PIT

EXISTING TELSTRA

PROP. TELSTRA CONSTRUCTION

x

ABANDONED or RECOVERED PLANT

+

DATA CORRECTION (CPR)

x

PLANT INFORMATION NOT FOUND

DO NOT SCALE

WARNING

THE PREPARATION OF THIS DESIGN HAS BEEN UNDERTAKEN GIVING THE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS, HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES BEFORE CONSTRUCTION COMMENCES AND NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGES TO EXISTING SERVICES AS A RESULT OF THIS DESIGN.

SIGNED:.....

WARNING

THIS PLAN CONTAINS COMMERCIAL SENSITIVE INFORMATION AND IS TO BE TREATED ACCORDINGLY NO SUCH INFORMATION IS TO BE PASSED ON TO OTHER PARTIES WITHOUT THE WRITTEN CONSENT OF THE TELSTRA CORPORATION

NOTE:
DISTANCES ARE INDICATIVE ONLY
DO NOT SCALE.

NOTE:
IF ACTUAL WORK DONE DIFFERS FROM THE ORIGINAL DESIGNED WORK THE PERSON PERFORMING THE WORK MUST AMEND THE COPY OF THIS PLAN ACCORDINGLY.

DANGER

BEFORE EXCAVATING CHECK FOR POWER CABLES AND GAS PIPES, ENSURE THAT YOU HAVE CALLED "1100 DIAL BEFORE YOU DIG" FOR ALL SERVICES LOCATION

InfraCo

x x x ATTENTION CONSTRUCTORS x x x

FOR COMPLIANCE PURPOSES

DO NOT CHANGE THE WORK SPECIFICATION OF THIS PROJECT WITHOUT FIRST CHECKING WITH THE DESIGNER.

Azalea
Consultancy

2	02.11.23	SCOPE OF WORKS
3	20.12.23	NEW ROAD DESIGN
4	15.01.25	REVISED SOW
ISS	DATE	AMENDMENT

APPROVED:	MS
CHECKED:	PV
EXAMINED:	MS
ISSUE DATE:	--
DRAWING FILE:	.dwg
S.I. 364895/01	
NOTE: DRAWINGS ARE SCHEMATIC NETWORK TO BE BUILT TO TELSTRA STANDARDS.	REV. 1 Sheet 1 of 1

TELSTRA NETWORK IMPACTS

TfNSW
PROTECTION AND RELOCATION
OF TELSTRA NETWORK PLANT
SCOPE OF WORKS
KEYSHEET
THE DRIFTWAY UPGRADE
LONDONDERRY RD - BLACKTOWN RD LONDONDERRY

NOTE 4 :
PROTECTION THE ROAD BUILDER IS
REQUESTED TO PROVIDE A
PROTECTION METHODOLOGY.

4xP35 SUBDUCTS (AA)
F PNTH 1101:BL-BK/1-6 6F/- SMOF FNPEHJ <- (AA1)
F PNTH 1004:BN-BT/1-120 120F/- SMOF FNPEHJ/STD <- (AA4)
F PNTH 1106:BS-BT/1-60 60F/- SMOF FNPEHJ/STD <- (AA3)
3001:AE-AF/1-24 24F/- SMOF FNPEHJ-D (AA2)
c12:M301-400 100 CPFUT PE (AB)
3003:AD-AW/1-36 36F/- SMOF FNPEHJ/STD (BA)
1xP32 SUBDUCTS (BB)
OC OPTUS 3385 M01 DME 615635 RES 22/05/2 (BB1)

AB BB
AA BA
P100

NOTE 3 :
TEST, CUT & REMOVE CABLE FROM
PIT/MANHOLE.
NOTE ACTION ON "AS-BUILT"
DRAWINGS AS CABLE REMOVED PIT
AND LEFT INSITU.

NOTE 2 :
RECONSTRUCT MANHOLE
HIGHER TO NEW LEVEL
APPROX. 700mm.

NOTE 2
P26 100/900
CA1:B301-400
3929m
DA26
30.0
90.0
AW

AA BA
P100
300DEAD 300/0.64 PIUT (AA)
3xDIST (AA)

LEGEND	
	EXISTING TELSTRA MANHOLE
	PROPOSED TELSTRA MANHOLE
	EXISTING TELSTRA 5PIT
	PROPOSED TELSTRA 5PIT
	EXISTING TELSTRA
	PROP. TELSTRA CONSTRUCTION
	ABANDONED or RECOVERED PLANT
	DATA CORRECTION (CPR)
	PLANT INFORMATION NOT FOUND

DO NOT SCALE

WARNING
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SIGNED:.....

WARNING
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NOTE:
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DO NOT SCALE.

NOTE:
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ANGER
BEFORE EXCAVATING CHECK FOR POWER CABLES AND GAS PIPES. ENSURE THAT YOU HAVE CALLED
"1100 DIAL BEFORE YOU DIG"
FOR ALL SERVICES LOCATION



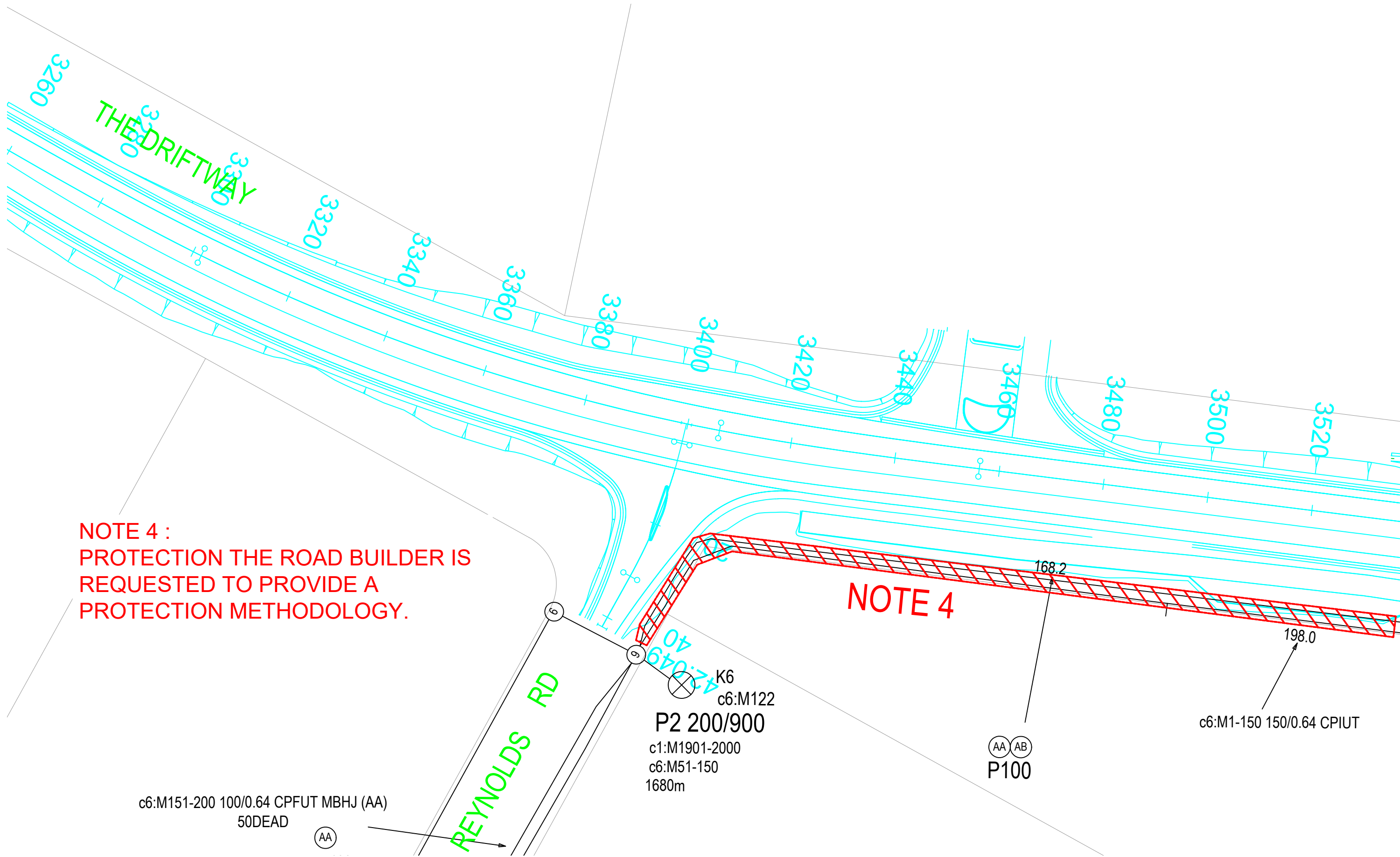
xxx ATTENTION CONSTRUCTORS xxx
FOR COMPLIANCE PURPOSES
DO NOT CHANGE THE WORK SPECIFICATION OF THIS PROJECT WITHOUT FIRST CHECKING WITH THE DESIGNER.



ISS	DATE	AMENDMENT
2	02.11.23	SCOPE OF WORKS
3	20.12.23	NEW ROAD DESIGN
4	15.01.25	REVISED SOW

APPROVED:	MS
CHECKED:	PV
EXAMINED:	MS
ISSUE DATE:	--
DRAWING FILE:	.dwg
S.I. 364895/01	
NOTE: DRAWINGS ARE SCHEMATIC NETWORK TO BE BUILT TO TELSTRA STANDARDS.	
REV.	1
Sheet	2
of	6

TELSTRA NETWORK IMPACTS	
TfNSW PROTECTION AND RELOCATION OF TELSTRA NETWORK PLANT SCOPE OF WORKS CC NETWORK THE DRIFTWAY UPGRADE LONDONDERRY RD - BLACKTOWN RD LONDONDERRY	



NOTE 4 :
PROTECTION THE ROAD BUILDER IS
REQUESTED TO PROVIDE A
PROTECTION METHODOLOGY.

NOTE 4

SEE SHEET 4

LEGEND	
	EXISTING TELSTRA MANHOLE
	PROPOSED TELSTRA MANHOLE
	EXISTING TELSTRA 5PIT
	PROPOSED TELSTRA 5PIT
	EXISTING TELSTRA
	PROP. TELSTRA CONSTRUCTION
	ABANDONED or RECOVERED PLANT
	DATA CORRECTION (CPR)
	PLANT INFORMATION NOT FOUND

DO NOT SCALE

WARNING
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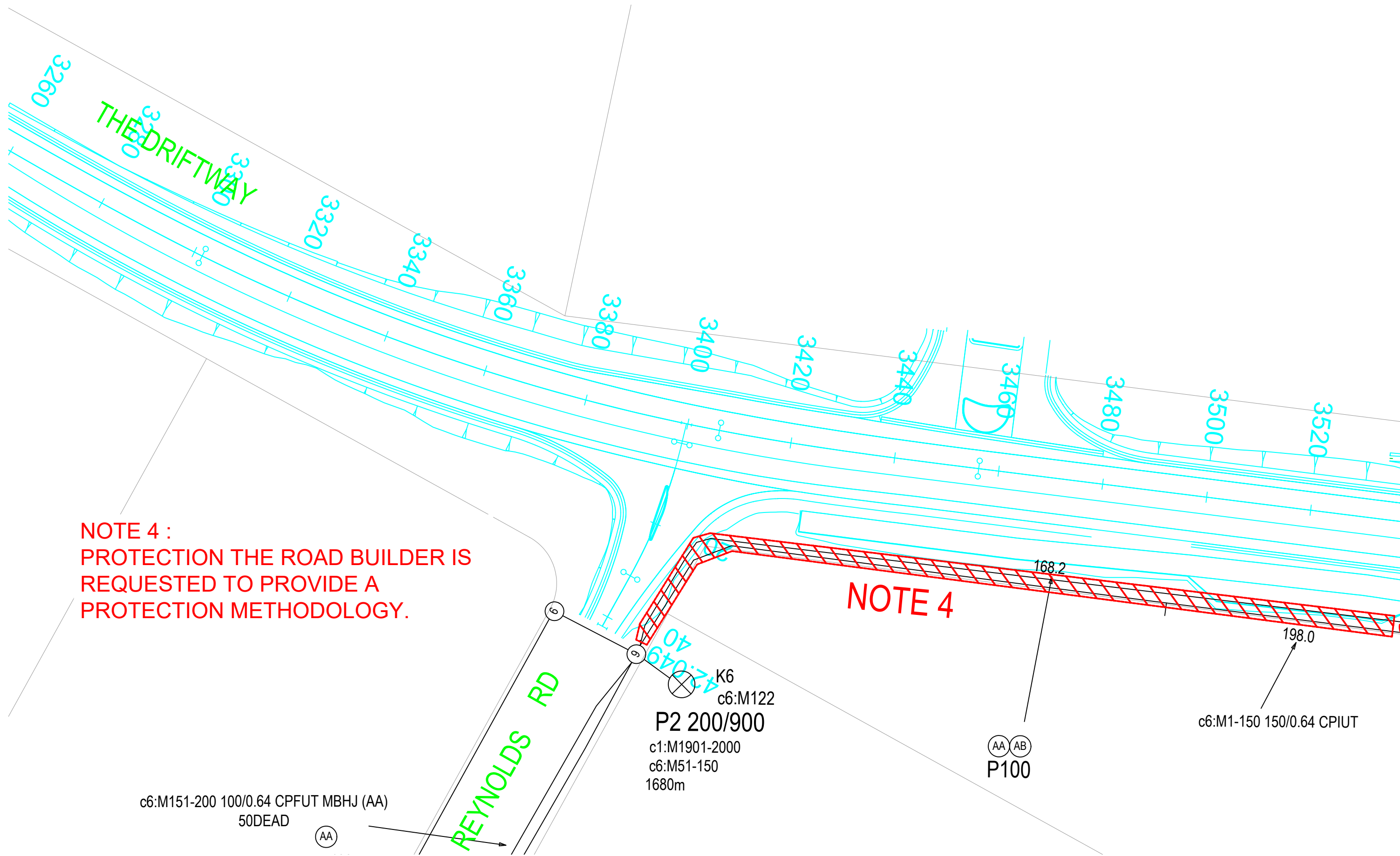


x x x ATTENTION CONSTRUCTORS x x x
FOR COMPLIANCE PURPOSES
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Azalea Consultancy		
2	02.11.23	SCOPE OF WORKS
3	20.12.23	NEW ROAD DESIGN
4	15.01.25	REVISED SOW
ISS	DATE	AMENDMENT

APPROVED:	MS
CHECKED:	PV
EXAMINED:	MS
ISSUE DATE:	--
DRAWING FILE:	.dwg
S.I. 364895/01	
NOTE: DRAWINGS ARE SCHEMATIC NETWORK TO BE BUILT TO TELSTRA STANDARDS.	REV. 1 Sheet 3 of 6

TELSTRA NETWORK IMPACTS	
TfNSW PROTECTION AND RELOCATION OF TELSTRA NETWORK PLANT SCOPE OF WORKS CC NETWORK THE DRIFTWAY UPGRADE LONDONDERRY RD - BLACKTOWN RD LONDONDERRY	



NOTE 4 :
PROTECTION THE ROAD BUILDER IS
REQUESTED TO PROVIDE A
PROTECTION METHODOLOGY.

NOTE 4

SEE SHEET 4

LEGEND

EXISTING TELSTRA MANHOLE

PROPOSED TELSTRA MANHOLE

EXISTING TELSTRA 5PIT

PROPOSED TELSTRA 5PIT

EXISTING TELSTRA

PROP. TELSTRA CONSTRUCTION

ABANDONED or RECOVERED PLANT

DATA CORRECTION (CPR)

PLANT INFORMATION NOT FOUND

DO NOT SCALE

WARNING

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DANGER

BEFORE EXCAVATING CHECK FOR POWER CABLES AND GAS PIPES, ENSURE THAT YOU HAVE CALLED "1100 DIAL BEFORE YOU DIG" FOR ALL SERVICES LOCATION

InfraCo

xxxx ATTENTION CONSTRUCTORS xxxx

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TELSTRA NETWORK IMPACTS

TfNSW

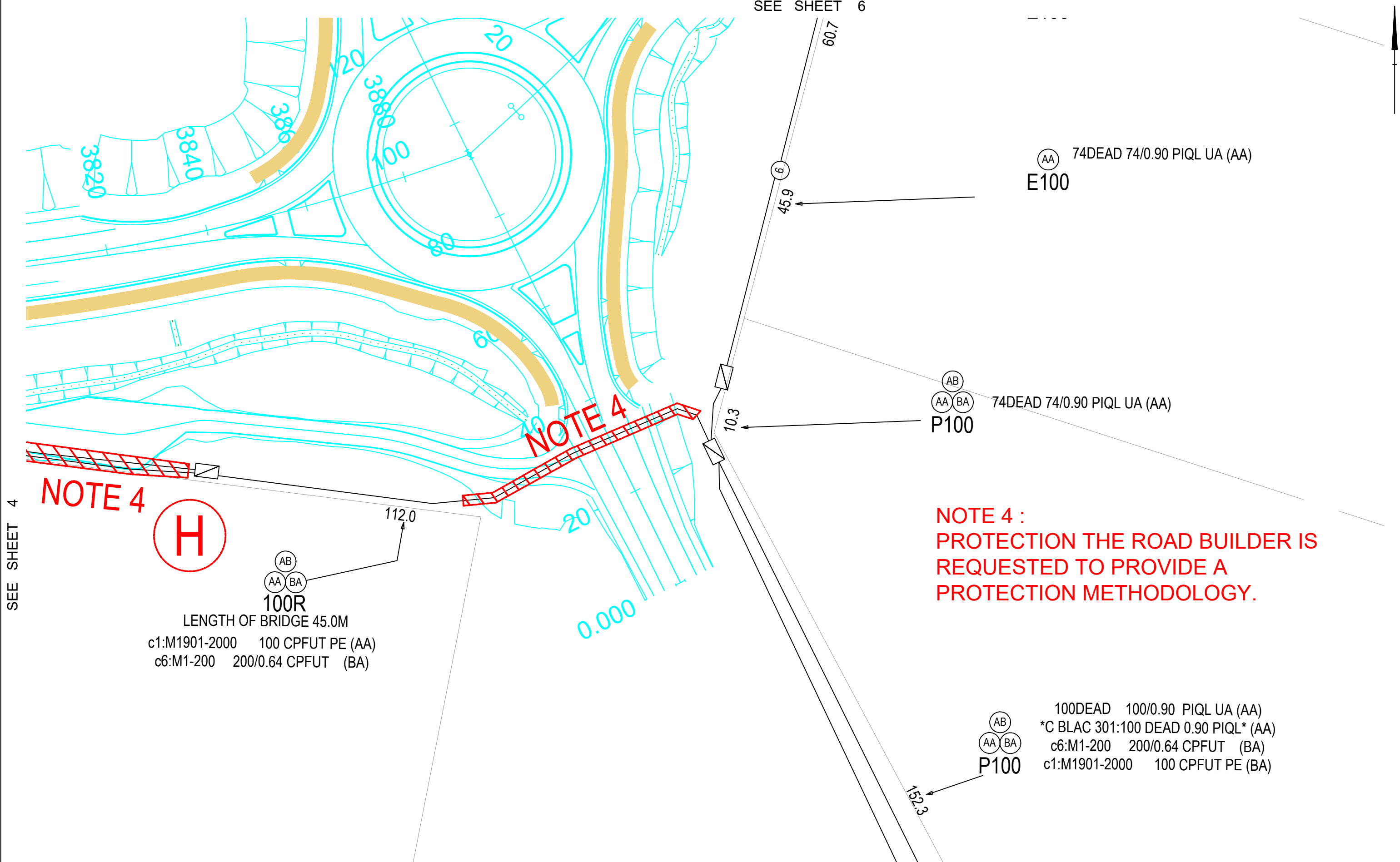
PROTECTION AND RELOCATION OF TELSTRA NETWORK PLANT

SCOPE OF WORKS

CC NETWORK

THE DRIFTWAY UPGRADE

LONDONDERRY RD - BLACKTOWN RD LONDONDERRY



LEGEND

- EXISTING TELSTRA MANHOLE
- PROPOSED TELSTRA MANHOLE
- EXISTING TELSTRA 5PIT
- PROPOSED TELSTRA 5PIT
- EXISTING TELSTRA
- PROP. TELSTRA CONSTRUCTION
- ABANDONED or RECOVERED PLANT
- DATA CORRECTION (CPR)
- PLANT INFORMATION NOT FOUND

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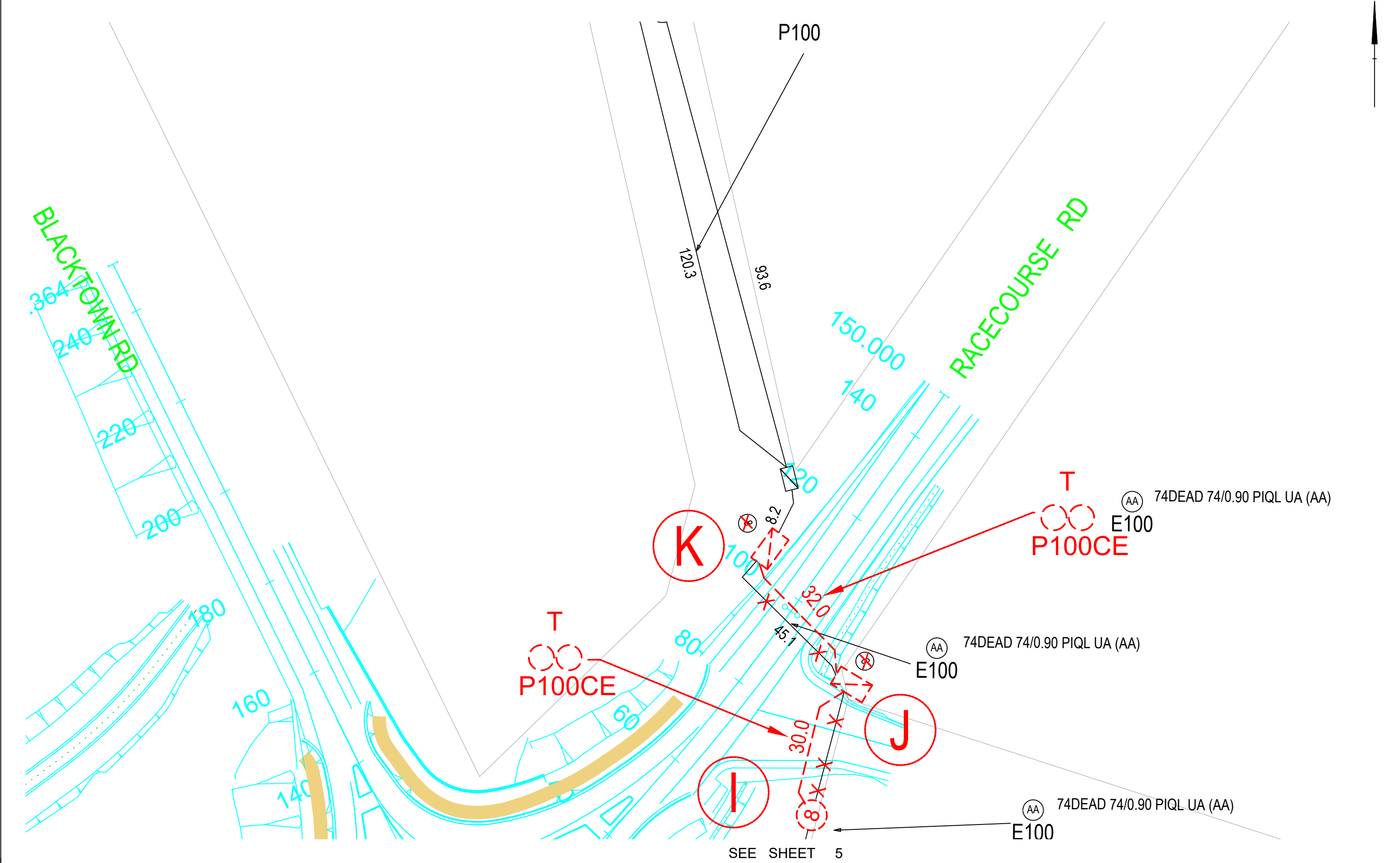
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REV. 1
Sheet 5 of 6

TELSTRA NETWORK IMPACTS

TfNSW
PROTECTION AND RELOCATION
OF TELSTRA NETWORK PLANT
SCOPE OF WORKS
CC NETWORK
THE DRIFTWAY UPGRADE
LONDONDERRY RD - BLACKTOWN RD LONDONDERRY



LEGEND

- EXISTING TELSTRA MANHOLE
- PROPOSED TELSTRA MANHOLE
- EXISTING TELSTRA 5PIT
- PROPOSED TELSTRA 5PIT
- EXISTING TELSTRA
- PROP. TELSTRA CONSTRUCTION
- ABANDONED or RECOVERED PLANT
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xxx ATTENTION CONSTRUCTORS xxx

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S.I. 364895/01

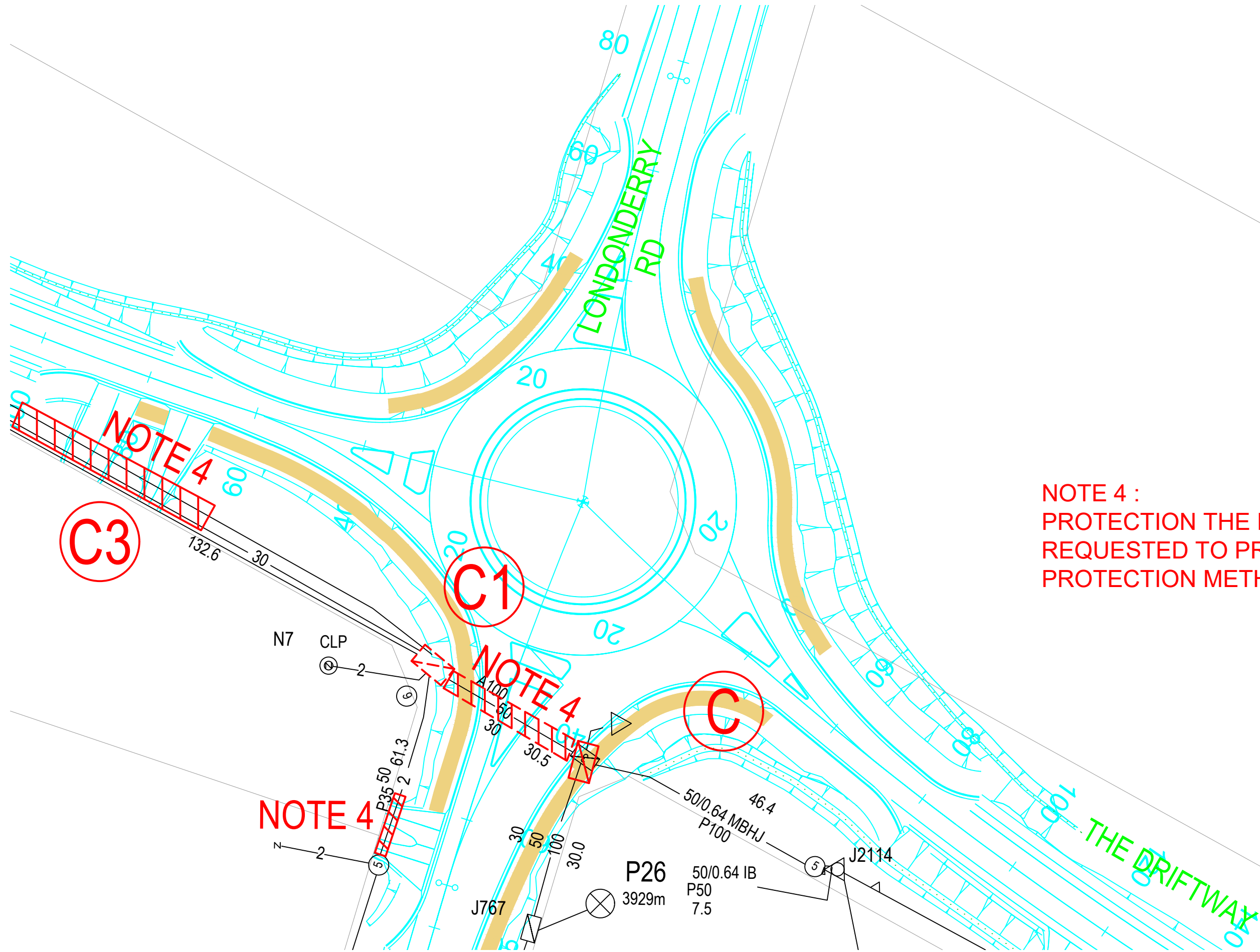
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REV.	1
Sheet	6
of	6

TELSTRA NETWORK IMPACTS

TfNSW
PROTECTION AND RELOCATION
OF TELSTRA NETWORK PLANT
SCOPE OF WORKS
CC NETWORK
THE DRIFTWAY UPGRADE
LONDONDERRY RD - BLACKTOWN RD LONDONDERRY

SEE SHEET 2



LEGEND	
	EXISTING TELSTRA MANHOLE
	PROPOSED TELSTRA MANHOLE
	EXISTING TELSTRA 5PIT
	PROPOSED TELSTRA 5PIT
	EXISTING TELSTRA
	PROP. TELSTRA CONSTRUCTION
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	DATA CORRECTION (CPR)
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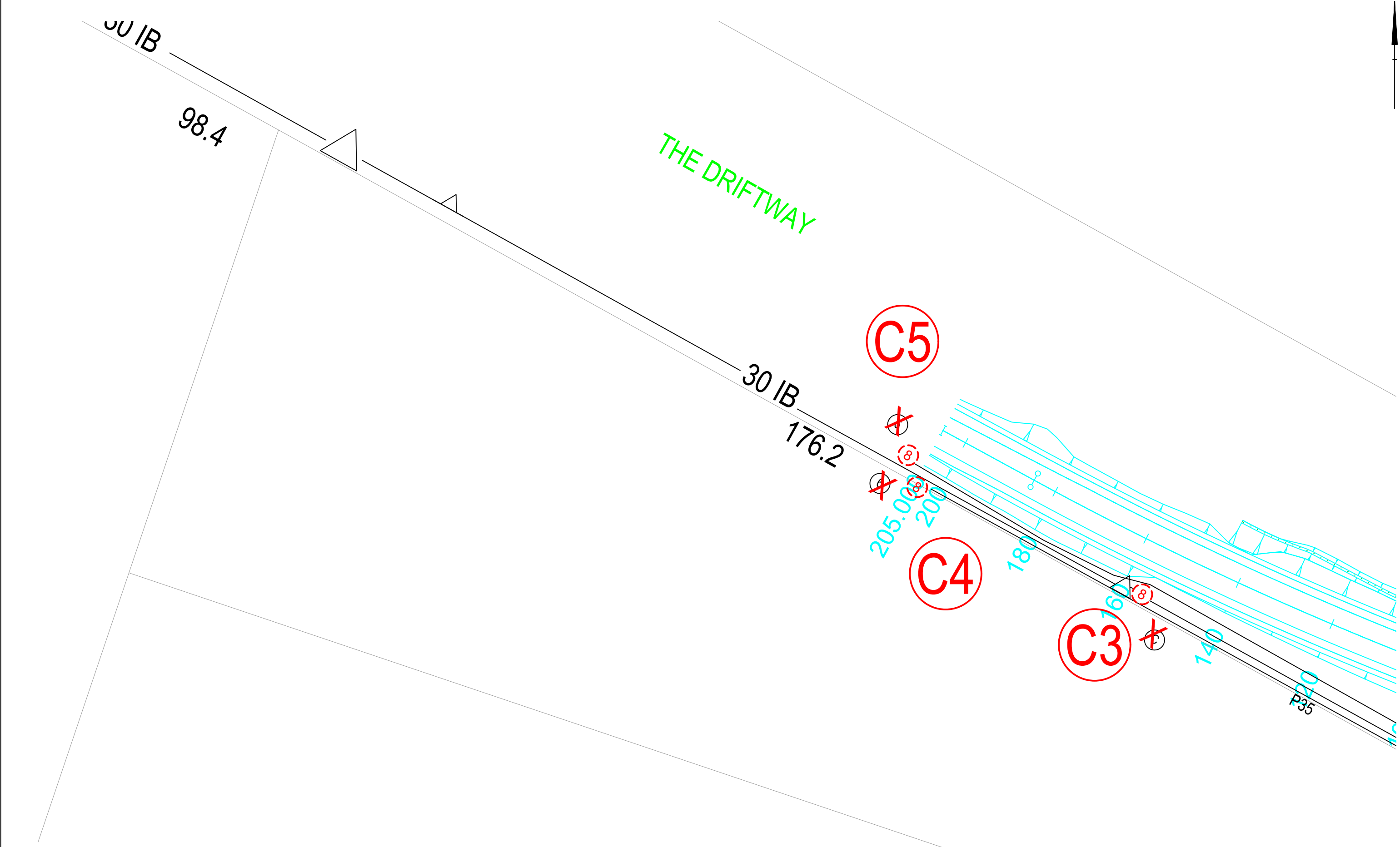
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Sheet 1 of 5	

TELSTRA NETWORK IMPACTS	
TfNSW PROTECTION AND RELOCATION OF TELSTRA NETWORK PLANT SCOPE OF WORKS DA NETWORK THE DRIFTWAY UPGRADE LONDONDERRY RD - BLACKTOWN RD LONDONDERRY	



SEE SHEET 1

LEGEND	
	EXISTING TELSTRA MANHOLE
	PROPOSED TELSTRA MANHOLE
	EXISTING TELSTRA 5PIT
	PROPOSED TELSTRA 5PIT
	EXISTING TELSTRA
	PROP. TELSTRA CONSTRUCTION
	ABANDONED or RECOVERED PLANT
	DATA CORRECTION (CPR)
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InfraCo

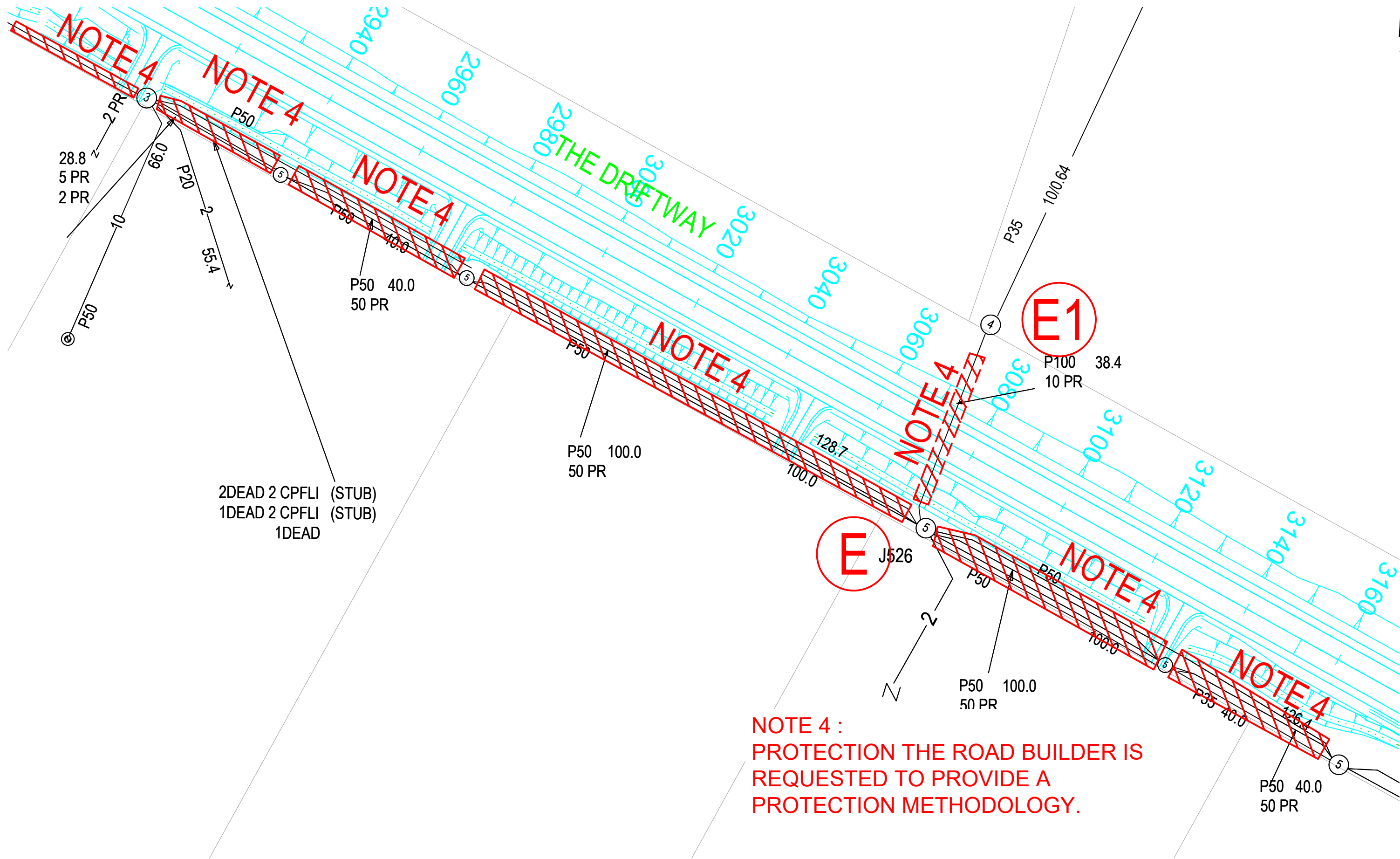
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TELSTRA NETWORK IMPACTS	
TfNSW PROTECTION AND RELOCATION OF TELSTRA NETWORK PLANT SCOPE OF WORKS DA NETWORK THE DRIFTWAY UPGRADE LONDONDERRY RD - BLACKTOWN RD LONDONDERRY	



LEGEND	
	EXISTING TELSTRA MANHOLE
	PROPOSED TELSTRA MANHOLE
	EXISTING TELSTRA SPIT
	PROPOSED TELSTRA SPIT
	EXISTING TELSTRA
	PROP. TELSTRA CONSTRUCTION
	ABANDONED or RECOVERED PLANT
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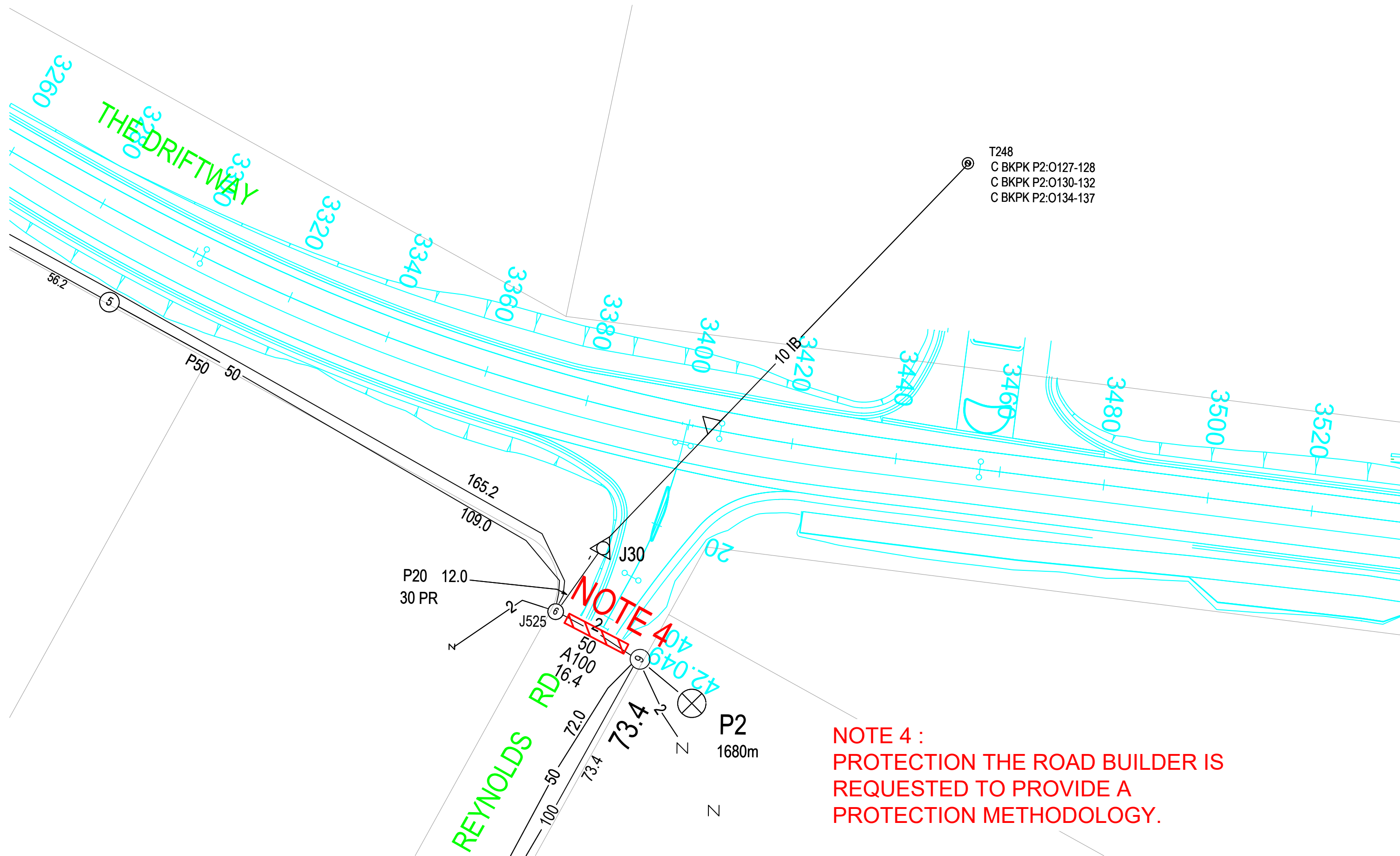
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REV.	1
Sheet	3
of	5

TELSTRA NETWORK IMPACTS	
TfNSW PROTECTION AND RELOCATION OF TELSTRA NETWORK PLANT SCOPE OF WORKS DA NETWORK THE DRIFTWAY UPGRADE LONDONDERRY RD - BLACKTOWN RD LONDONDERRY	



LEGEND

- EXISTING TELSTRA MANHOLE
- PROPOSED TELSTRA MANHOLE
- EXISTING TELSTRA 5PIT
- PROPOSED TELSTRA 5PIT
- EXISTING TELSTRA
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REV.	1
Sheet 4	of 5

TELSTRA NETWORK IMPACTS

TfNSW

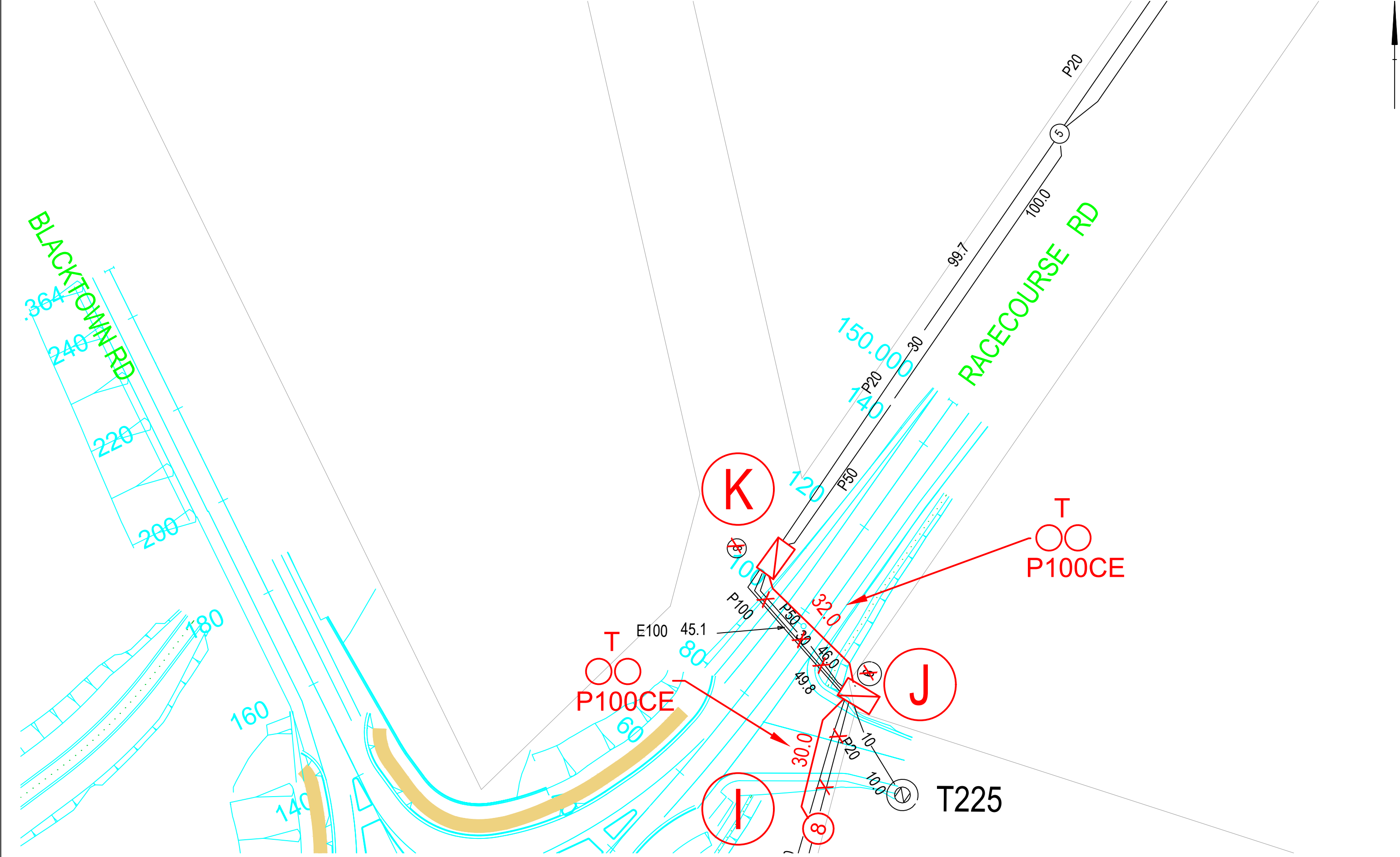
PROTECTION AND RELOCATION OF TELSTRA NETWORK PLANT

SCOPE OF WORKS

DA NETWORK

THE DRIFTWAY UPGRADE

LONDONDERRY RD - BLACKTOWN RD LONDONDERRY



LEGEND	
	EXISTING TELSTRA MANHOLE
	PROPOSED TELSTRA MANHOLE
	EXISTING TELSTRA 5PIT
	PROPOSED TELSTRA 5PIT
	EXISTING TELSTRA
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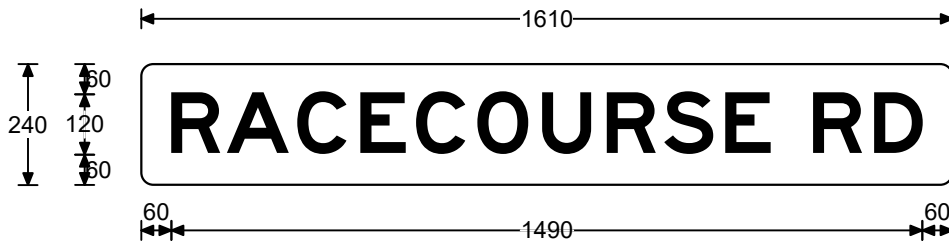
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Legend

RACECOURSE RD

Font Type

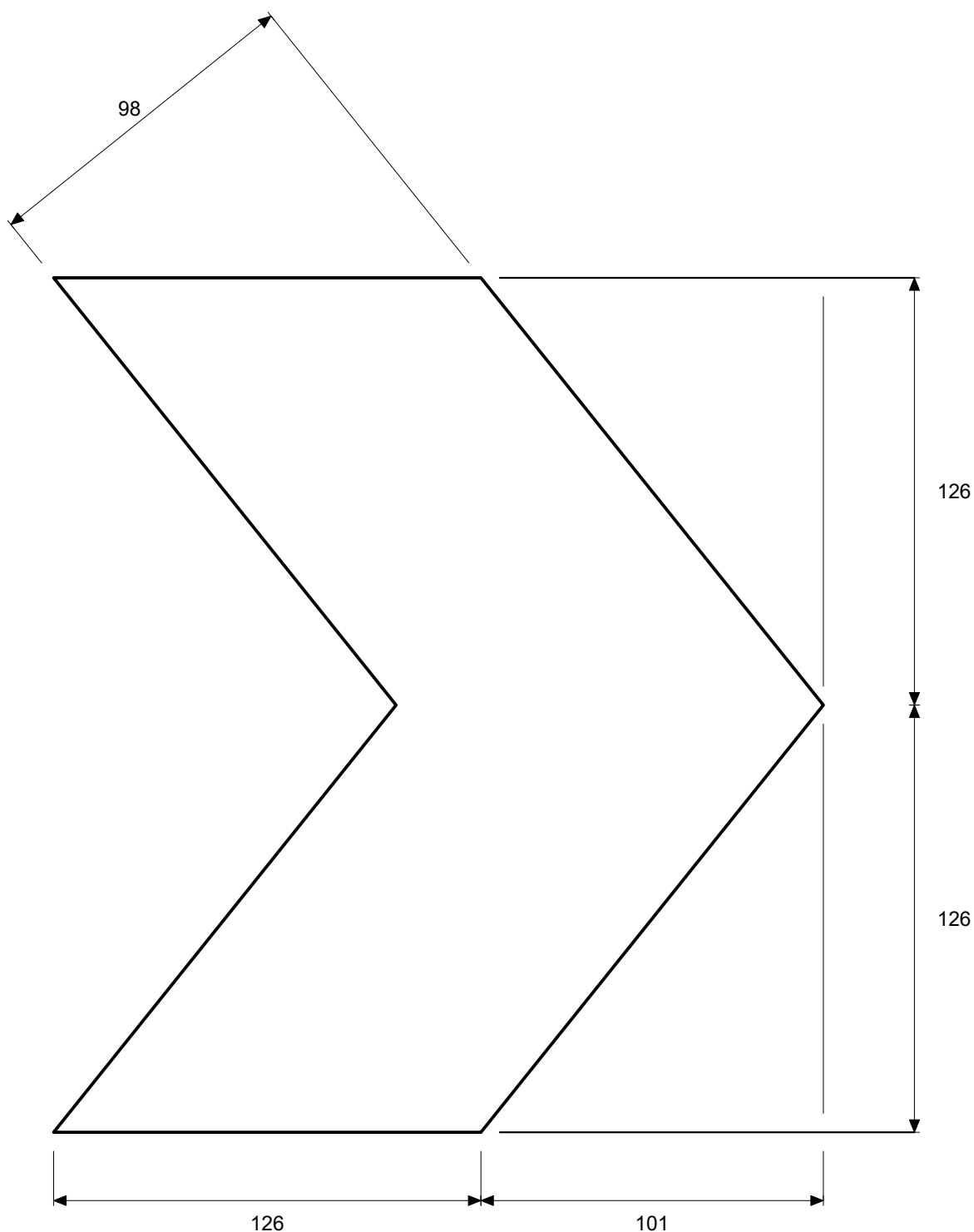
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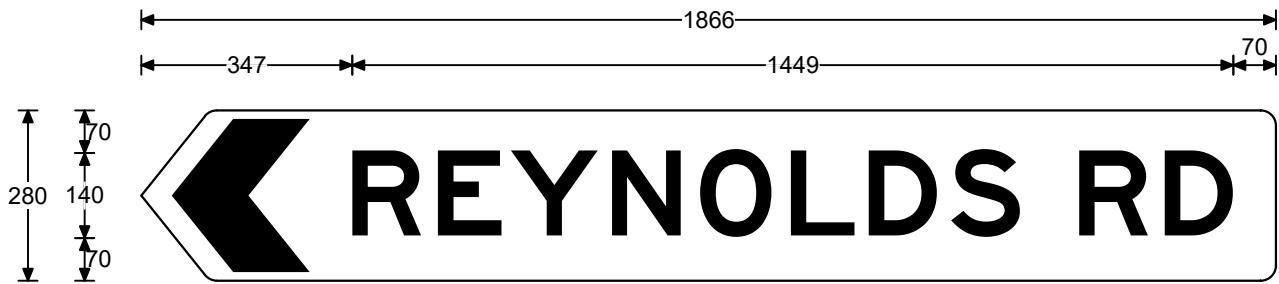
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Prepared using TraSiCAD Product of QMR			



Details of Sign Face Symbols

Size:	280 x 1866	Date:	7/9/21
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Legend

REYNOLDS RD

Font Type

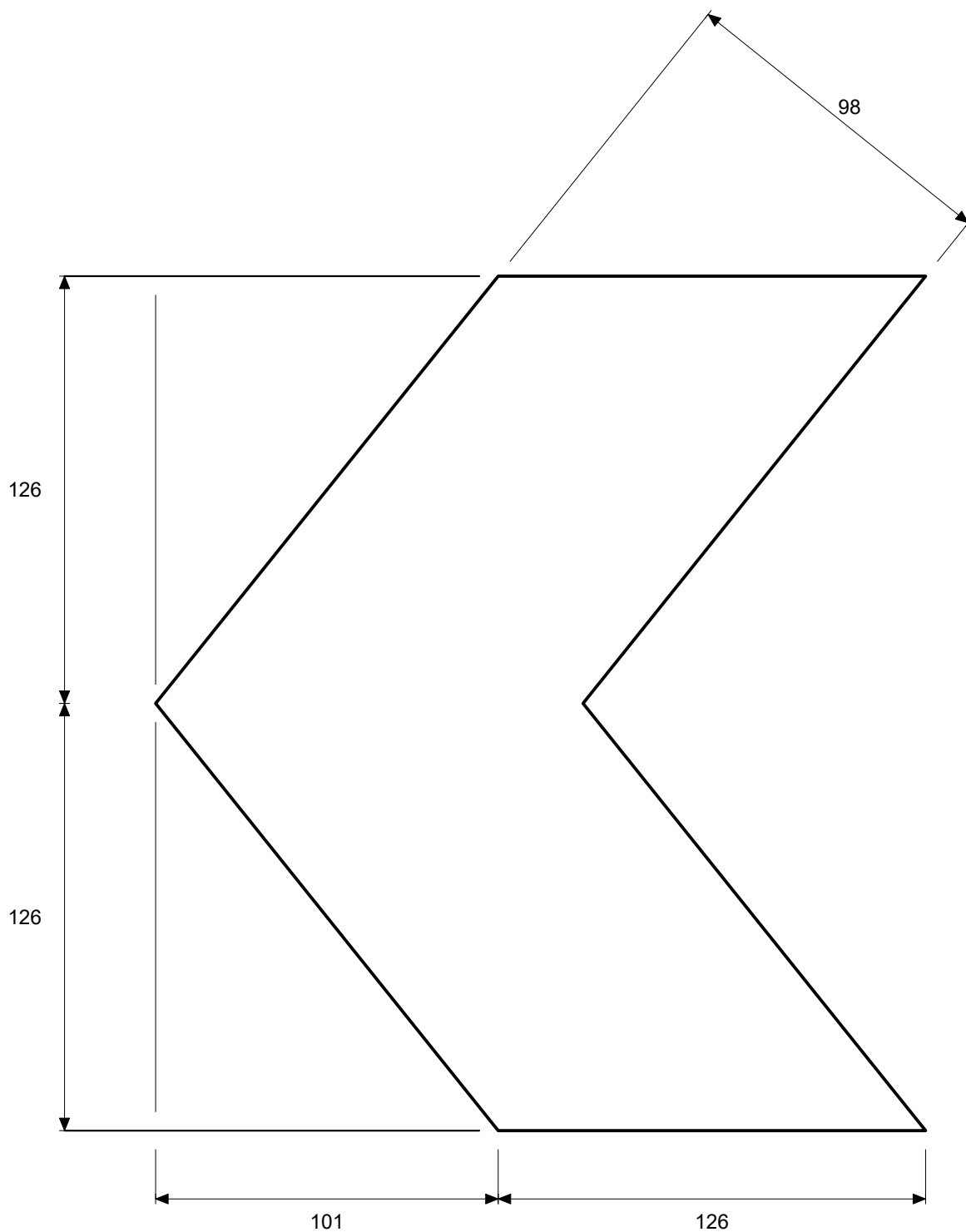
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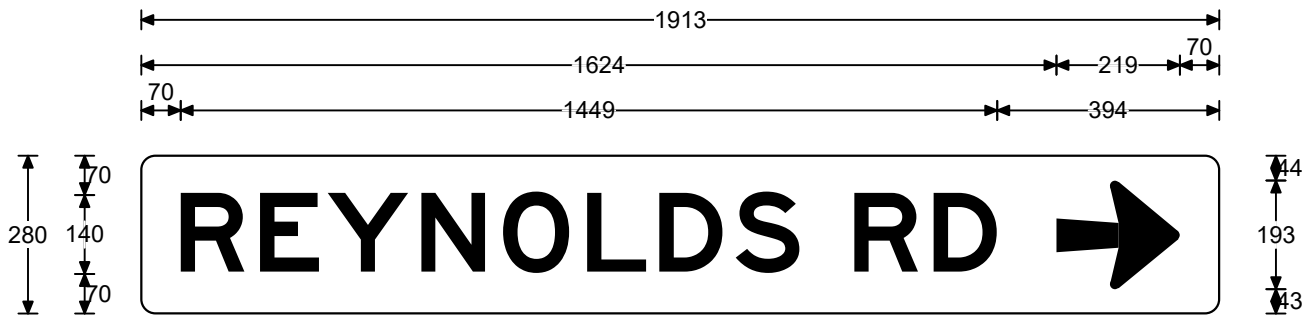
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Aluminium Sign
Black lgd
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Details of Sign Face Symbols

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Area:	0.52 sq.m		
Border:	0 x 0	Drawn:	daviesm
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		File:	Dri_Rey_ID1
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Legend

REYNOLDS RD

Font Type

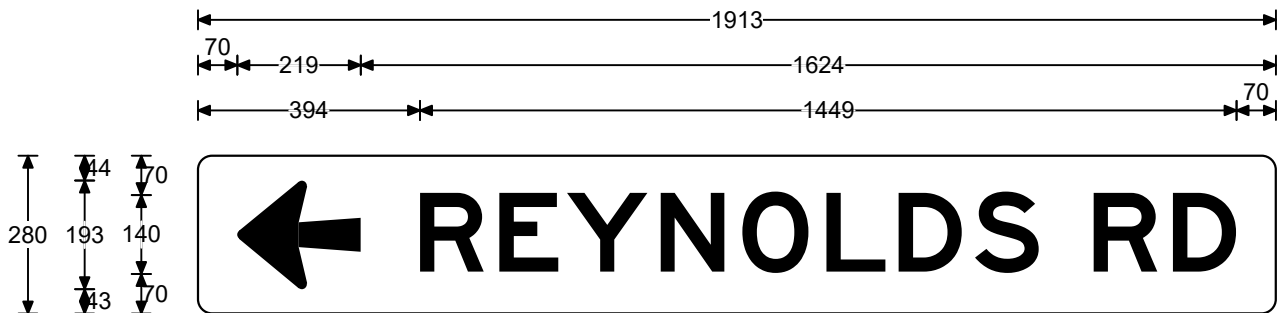
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Font Size

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Specifications:
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Black lgd
Cl.400 White refl grd(AS1906.1)

Size:	280 x 1913	Date:	7/9/21
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Legend

REYNOLDS RD

Font Type

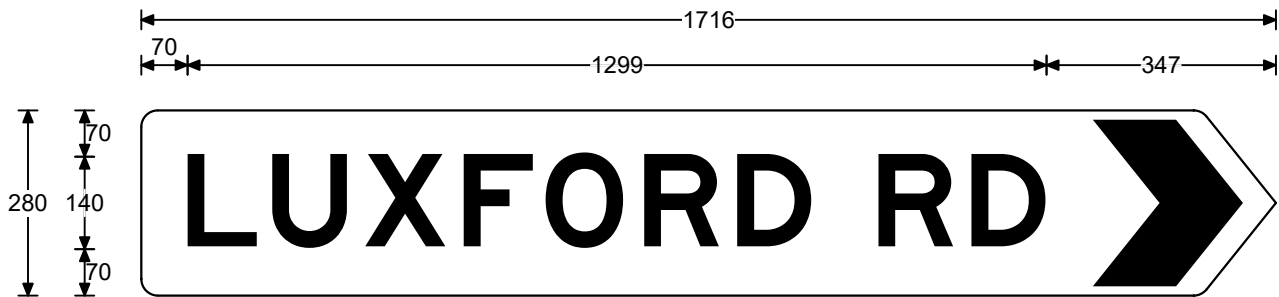
FHWA Series E2000EX

Font Size

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Specifications:
Aluminium Sign
Black lgd
Cl.400 White refl grd(AS1906.1)

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Legend

LUXFORD RD

Font Type

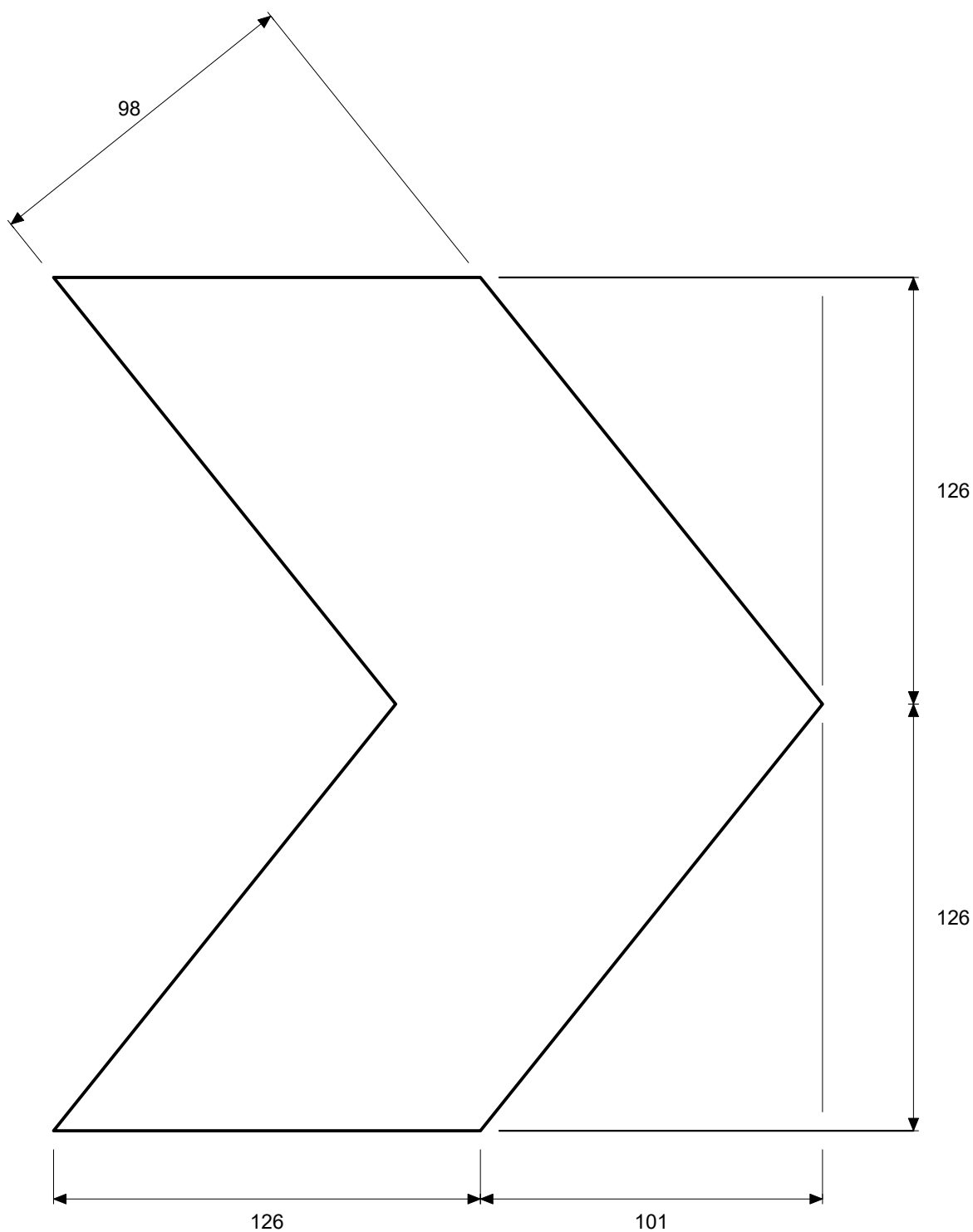
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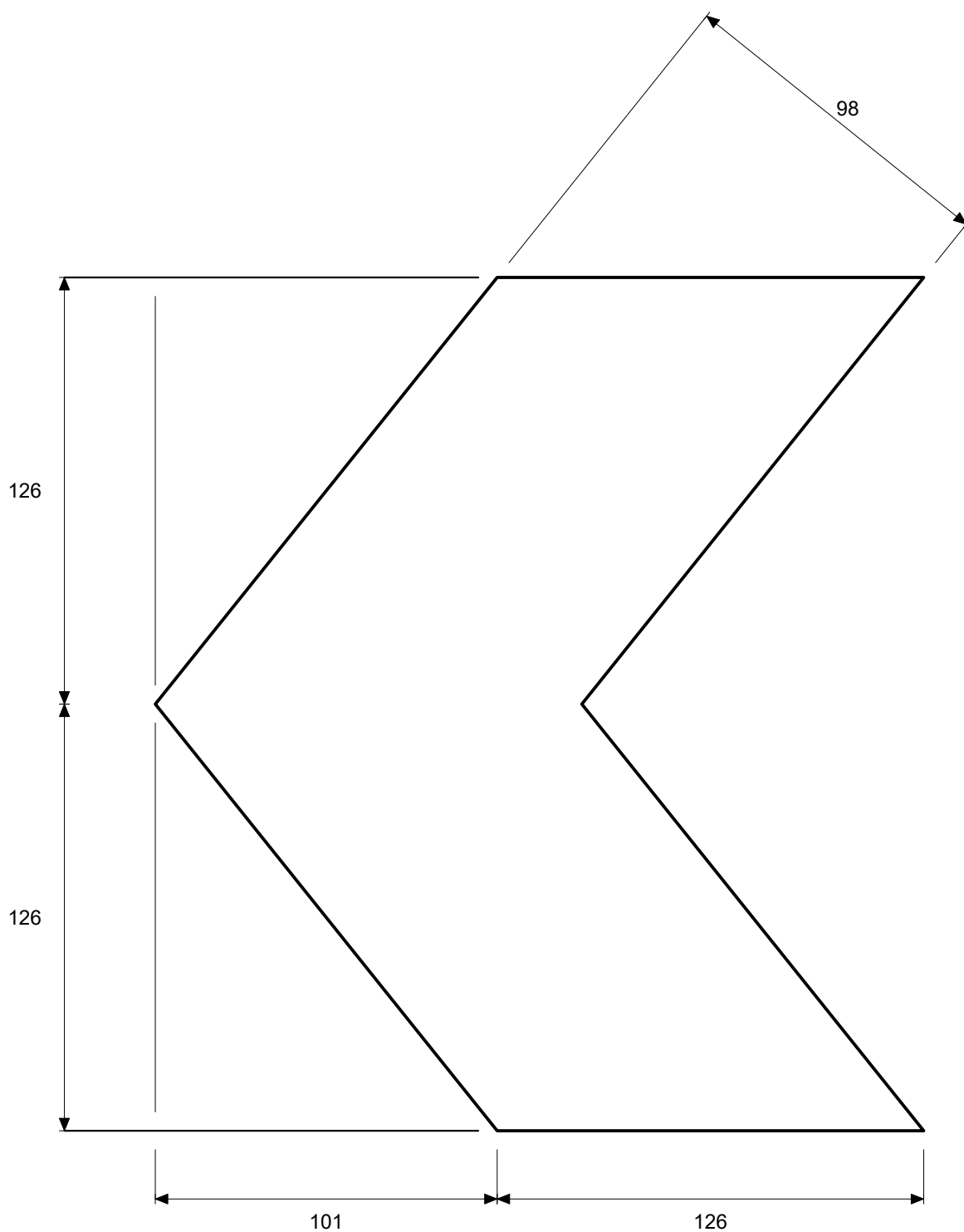
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Aluminium Sign
Black lgd
Cl.400 White refl grd(AS1906.1)

Size:	280 x 1716	Date:	7/9/21
Area:	0.48 sq.m	Scale:	1:11.4
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	25	Checked:	
Patch CR:	NA	File:	Dri_Lux_ID2
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



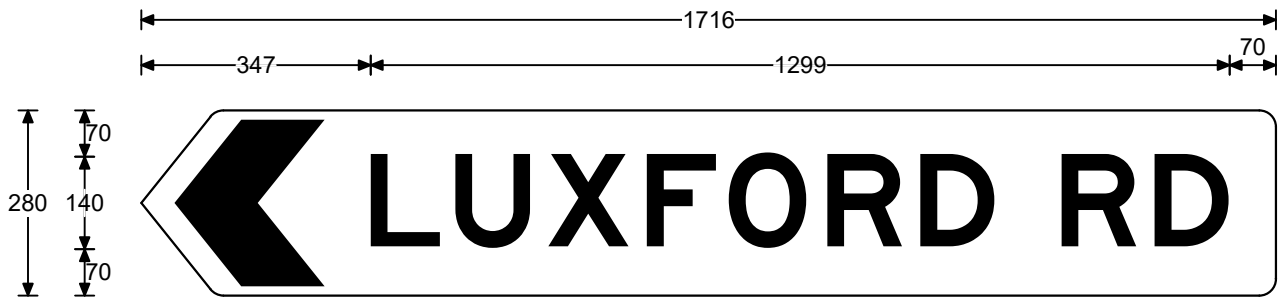
Details of Sign Face Symbols

Size:	280 x 1716	Date:	7/9/21
Area:	0.48 sq.m		
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	25	Checked:	
		File:	Dri_Lux_ID2
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Details of Sign Face Symbols

Size:	280 x 1716	Date:	7/9/21
Area:	0.48 sq.m		
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	25	Checked:	
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		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

LUXFORD RD

Font Type

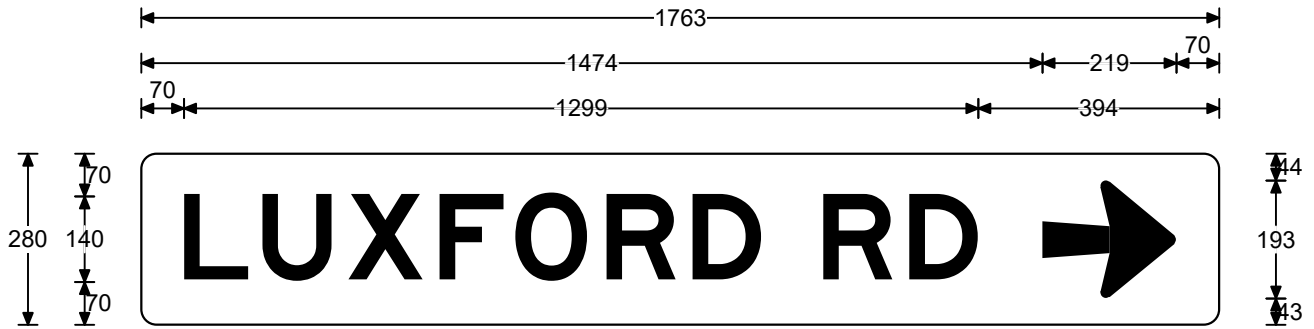
FHWA Series E2000EX

Font Size

140

Specifications:
Aluminium Sign
Black lgd
Cl.400 White refl grd(AS1906.1)

Size:	280 x 1716	Date:	7/9/21
Area:	0.48 sq.m	Scale:	1:11.4
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	25	Checked:	
Patch CR:	NA	File:	Dri_Lux_ID1
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

LUXFORD RD

Font Type

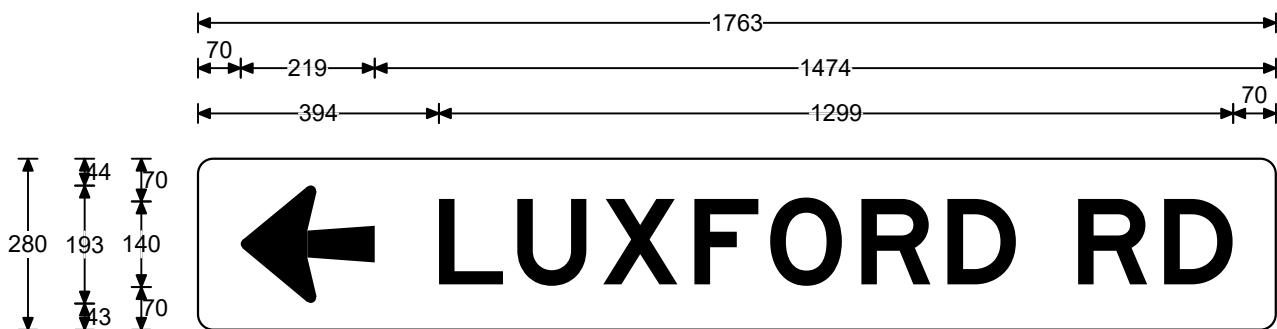
FHWA Series E2000EX

Font Size

140

Specifications:
Aluminium Sign
Black lgd
Cl.400 White refl grd(AS1906.1)

Size:	280 x 1763	Date:	7/9/21
Area:	0.49 sq.m	Scale:	1:12.4
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	25	Checked:	
Patch CR:	NA	File:	Dri_Lux_AD2
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

LUXFORD RD

Font Type

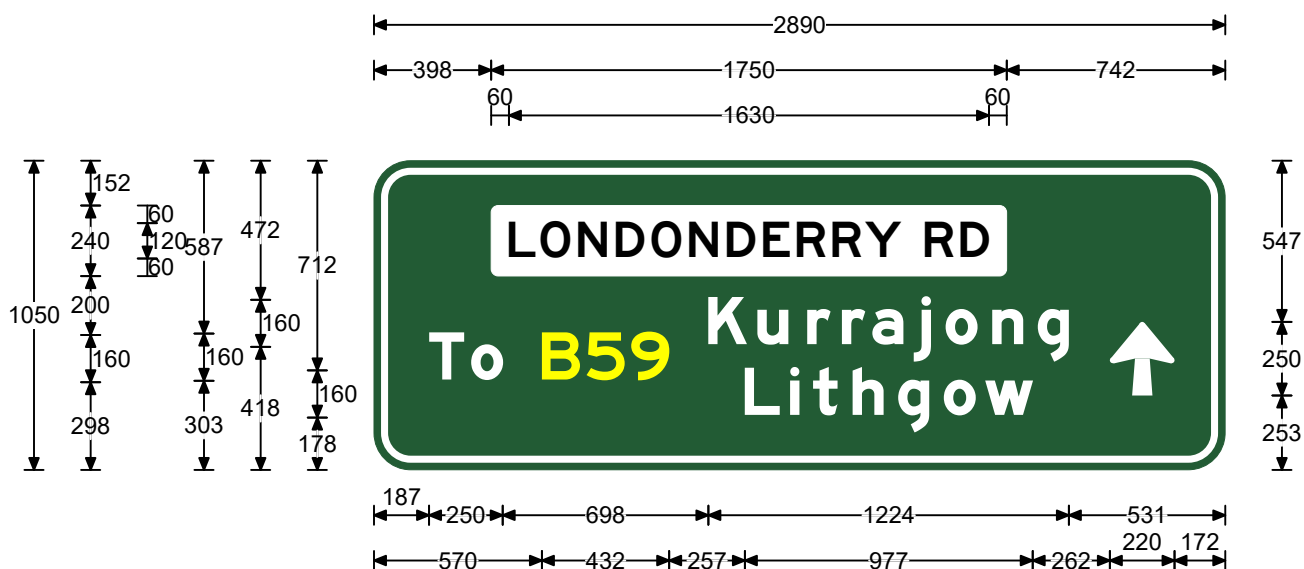
FHWA Series E2000EX

Font Size

140

Specifications:
Aluminium Sign
Black lgd
Cl.400 White refl grd(AS1906.1)

Size:	280 x 1763	Date:	7/9/21
Area:	0.49 sq.m	Scale:	1:12.4
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	25	Checked:	
Patch CR:	NA	File:	Dri_Lux_AD1
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

LONDONDERRY RD
Kurrajong
B59
To
Lithgow

Font Type

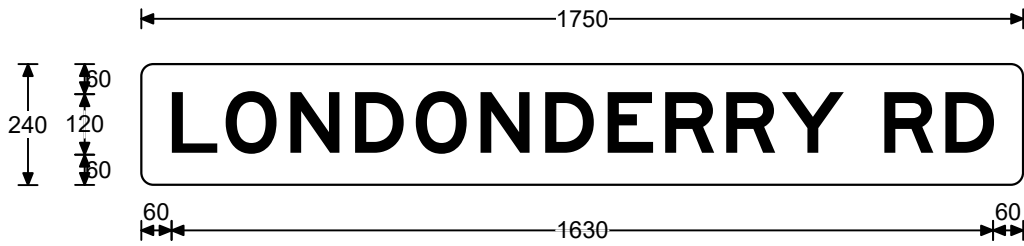
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series Em2000EX

Font Size

120
160
160
160
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)
MAB Route Marker:-Cl.1100 Fluro Yellow refl lgd(AS1906.1)

Size:	1050 x 2890	Date:	7/9/21
Area:	3.03 sq.m	Scale:	1:25.7
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	125	Checked:	
Patch CR:	24	File:	Dri_Lon_ID4
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

LONDONDERRY RD

Font Type

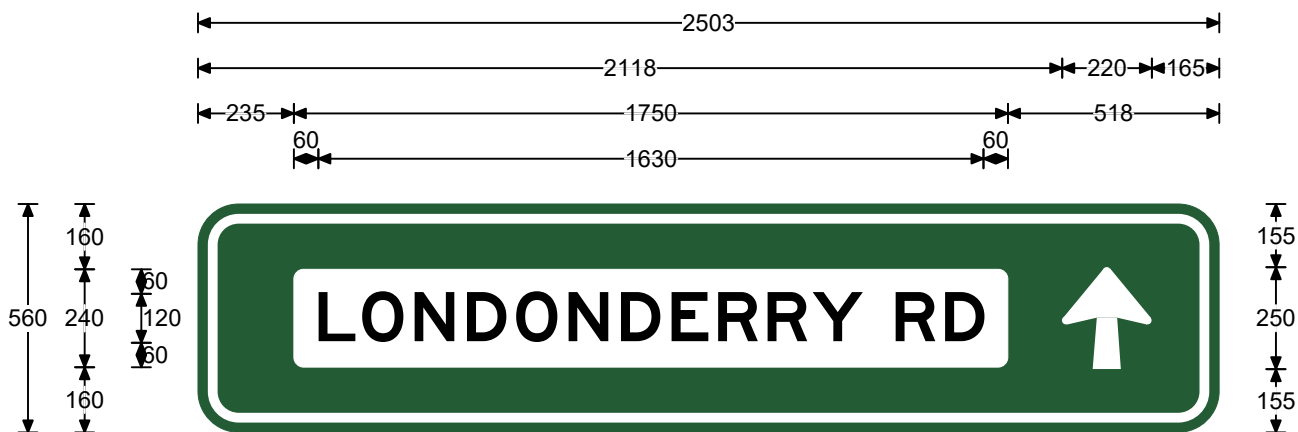
FHWA Series E2000EX

Font Size

120

Patch Detail

Size:	240 x 1750	Date:	7/9/21
Area:	0.42 sq.m	Scale:	1:15
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_ID4
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

LONDONDERRY RD

Font Type

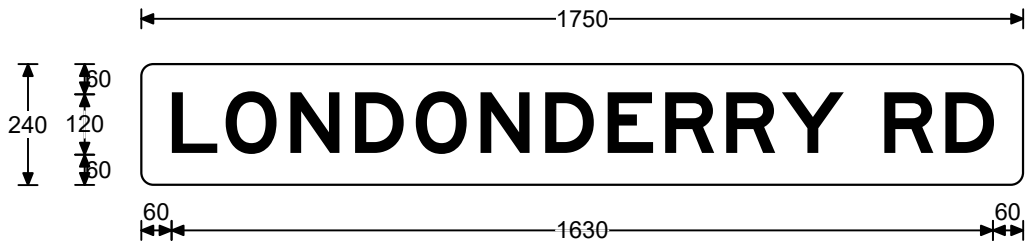
FHWA Series E2000EX

Font Size

120

Specifications:
 Aluminium Sign
 Cl.400 White refl lgd(AS1906.1)
 Cl.400 Dark Green refl grd(AS1906.1)
 Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)

Size:	560 x 2503	Date:	7/9/21
Area:	1.4 sq.m	Scale:	1:18.5
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	100	Checked:	
Patch CR:	24	File:	Dri_Lon_ID3
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

LONDONDERRY RD

Font Type

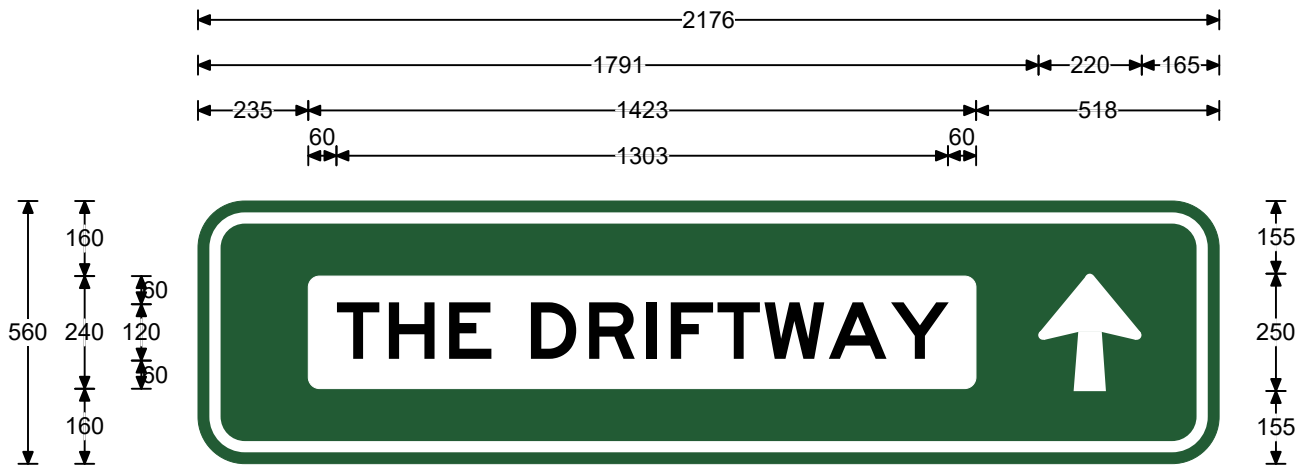
FHWA Series E2000EX

Font Size

120

Patch Detail

Size:	240 x 1750	Date:	7/9/21
Area:	0.42 sq.m	Scale:	1:15
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_ID3
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Prepared using TraSiCAD Product of QMR			



Legend

THE DRIFTWAY

Font Type

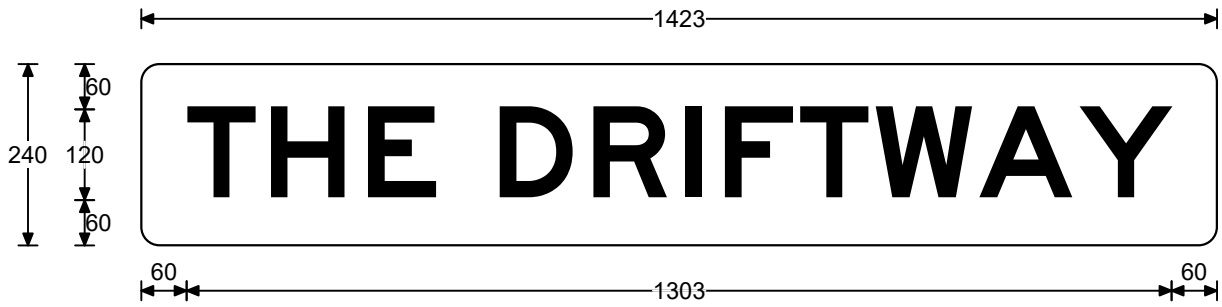
FHWA Series E2000EX

Font Size

120

Specifications:
 Aluminium Sign
 Cl.400 White refl lgd(AS1906.1)
 Cl.400 Dark Green refl grd(AS1906.1)
 Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)

Size:	560 x 2176	Date:	7/9/21
Area:	1.22 sq.m	Scale:	1:16.1
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	100	Checked:	
Patch CR:	24	File:	Dri_Lon_ID2
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

THE DRIFTWAY

Font Type

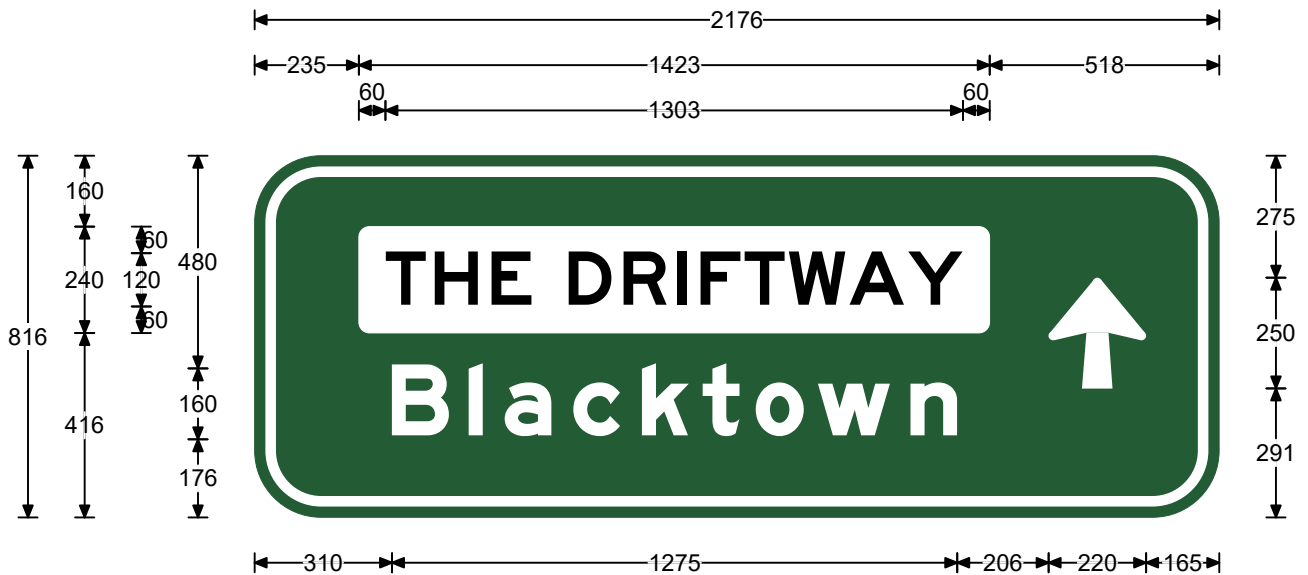
FHWA Series E2000EX

Font Size

120

Patch Detail

Size:	240 x 1423	Date:	7/9/21
Area:	0.34 sq.m	Scale:	1:10
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Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_ID2
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

THE DRIFTWAY
Blacktown

Font Type

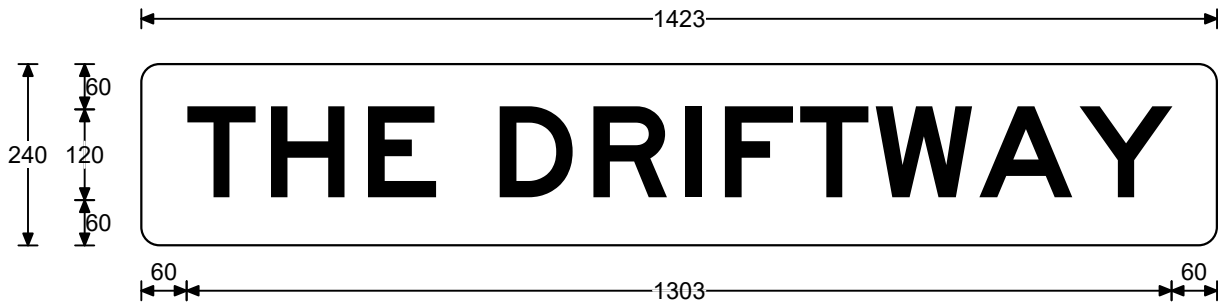
FHWA Series E2000EX
FHWA Series Em2000EX

Font Size

120
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)

Size:	816 x 2176	Date:	7/9/21
Area:	1.78 sq.m	Scale:	1:17.1
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	150	Checked:	
Patch CR:	24	File:	Dri_Lon_ID1
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

THE DRIFTWAY

Font Type

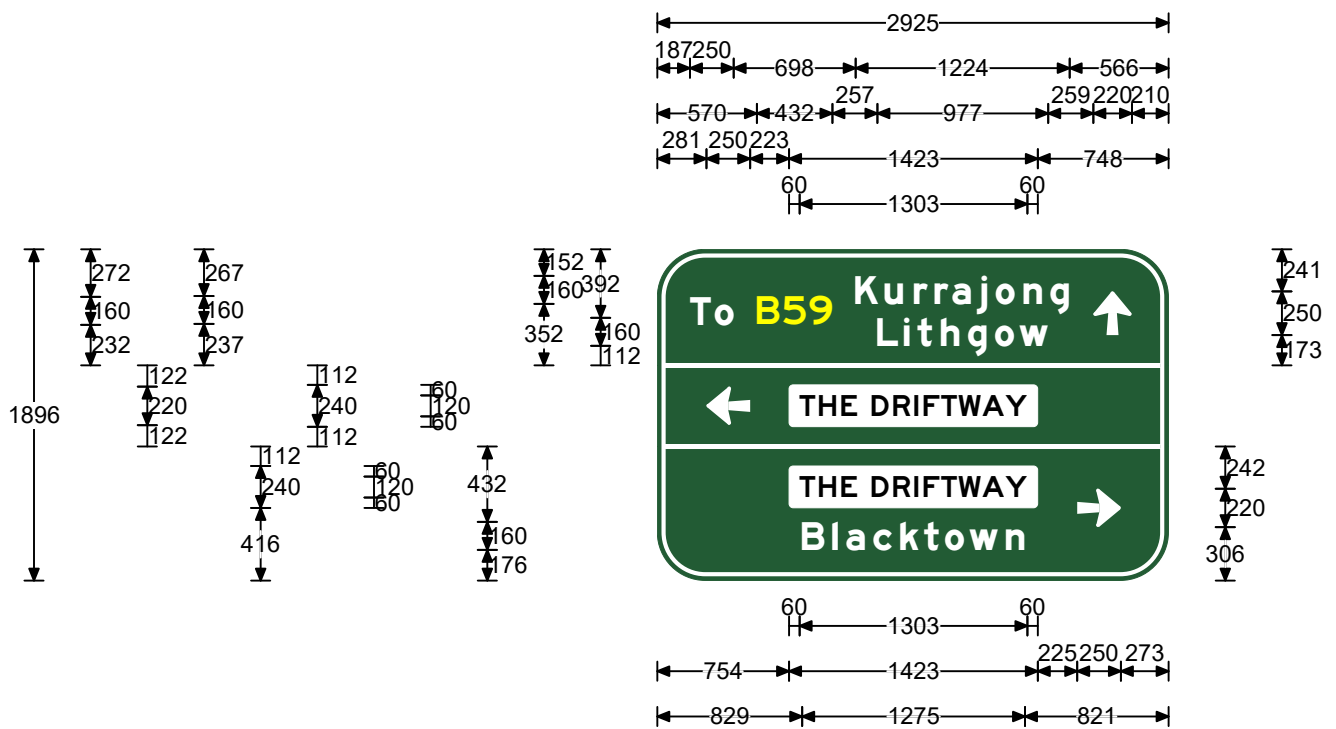
FHWA Series E2000EX

Font Size

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Patch Detail

Size:	240 x 1423	Date:	7/9/21
Area:	0.34 sq.m	Scale:	1:10
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Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_ID1
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

Kurrajong
B59
To
Lithgow
THE DRIFTWAY
THE DRIFTWAY
Blacktown

Font Type

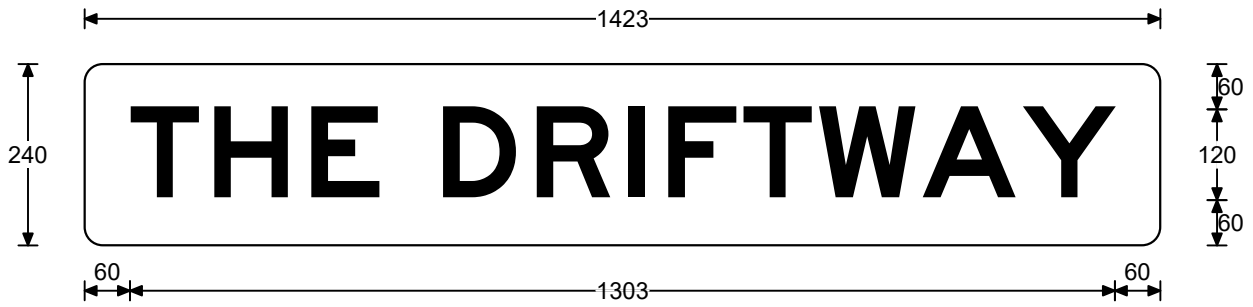
FHWA Series Em2000EX
FHWA Series E2000EX
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FHWA Series Em2000EX

Font Size

160
160
160
160
120
120
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)
MAB Route Marker:-Cl.1100 Fluro Yellow refl lgd(AS1906.1)

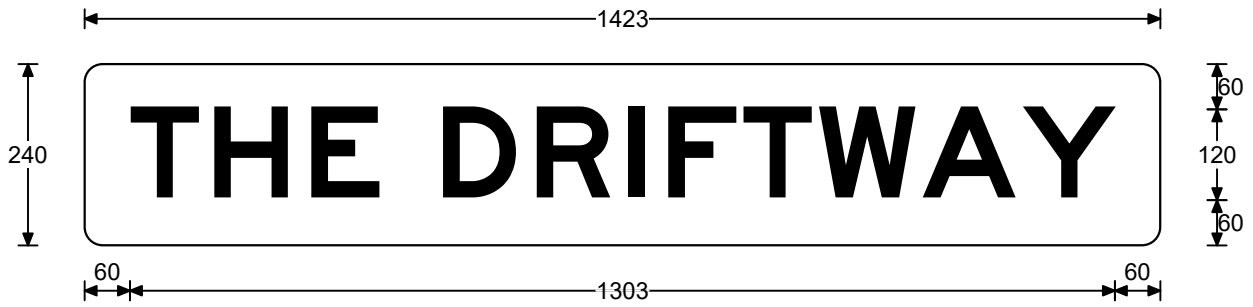
Size:	1896 x 2925	Date:	7/9/21
Area:	5.55 sq.m	Scale:	1:43.2
Border:	24 x 24	Drawn:	daviesm
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Patch CR:	24	File:	Dri_Lon_AD4
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



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THE DRIFTWAY	FHWA Series E2000EX	120

Patch Detail

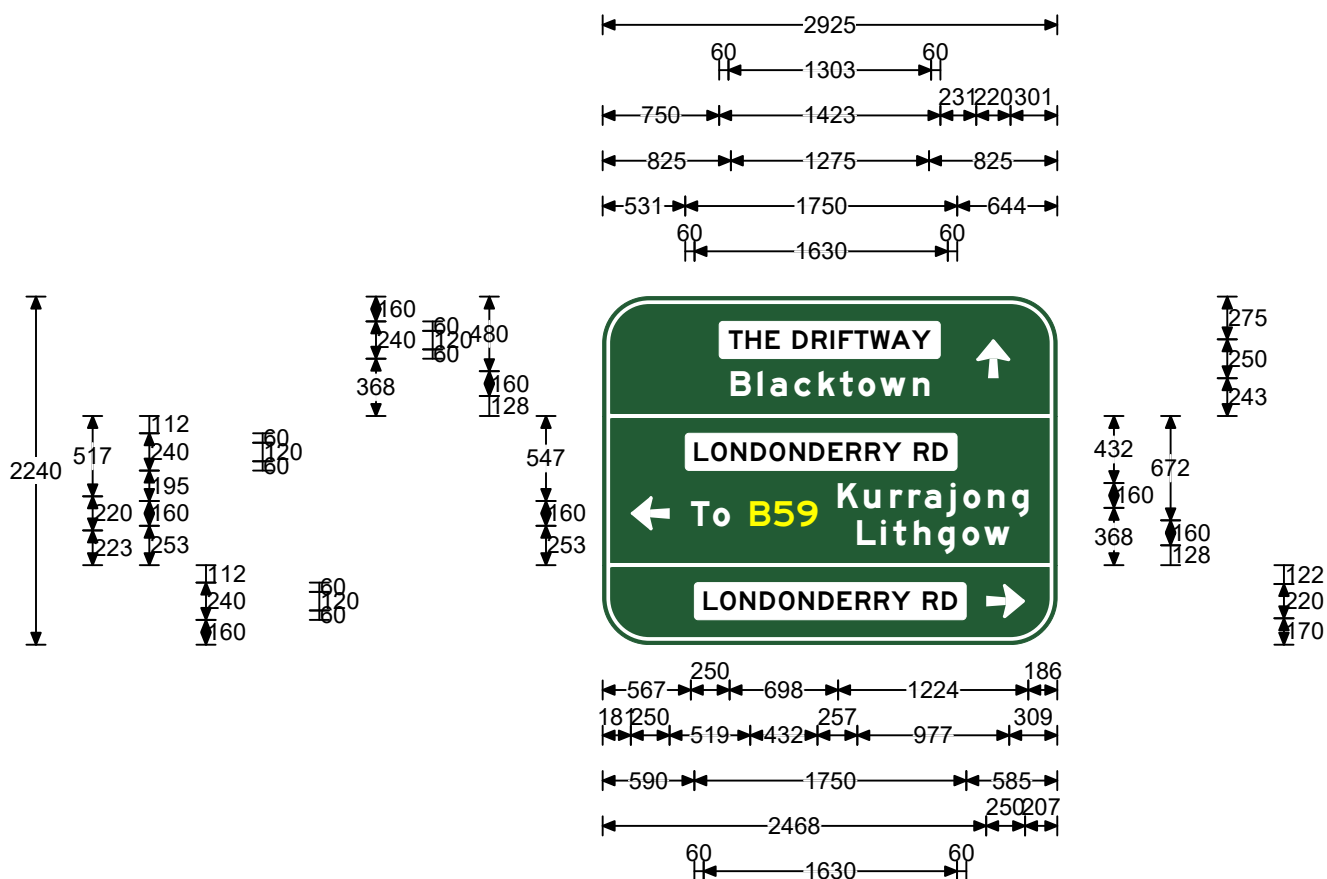
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Patch CR:	NA	File:	Dri_Lon_AD4
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Prepared using TraSiCAD Product of QMR			



<u>Legend</u>	<u>Font Type</u>	<u>Font Size</u>
THE DRIFTWAY	FHWA Series E2000EX	120

Patch Detail

Size:	240 x 1423	Date:	7/9/21
Area:	0.34 sq.m	Scale:	1:10
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_AD4
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

THE DRIFTWAY
Blacktown
LONDONDERRY RD
Kurrajong
B59
To
Lithgow
LONDONDERRY RD

Font Type

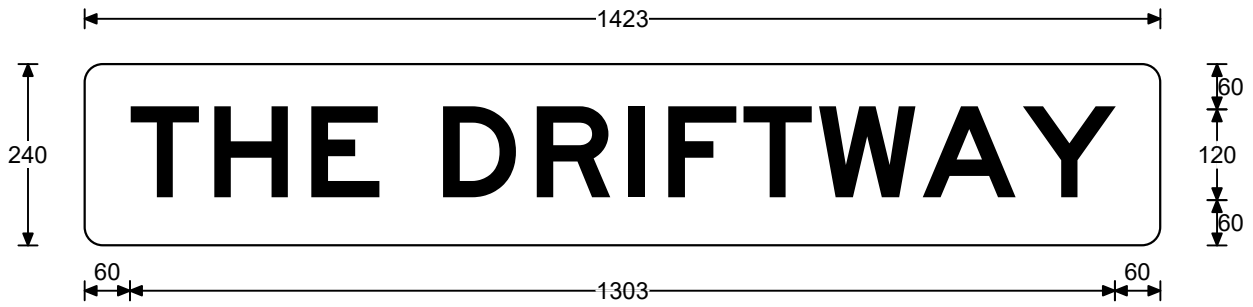
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series Em2000EX
FHWA Series E2000EX

Font Size

120
160
120
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160
160
160
120

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)
MAB Route Marker:-Cl.1100 Fluro Yellow refl lgd(AS1906.1)

Size:	2240 x 2925	Date:	7/9/21
Area:	6.55 sq.m	Scale:	1:48.6
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	300	Checked:	
Patch CR:	24	File:	Dri_Lon_AD3
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**Legend**

THE DRIFTWAY

Font Type

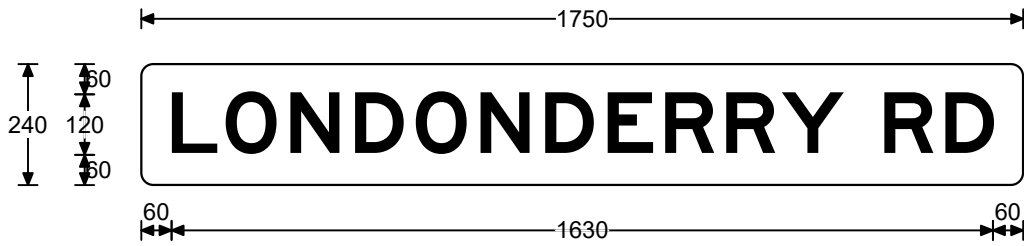
FHWA Series E2000EX

Font Size

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Patch Detail

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Patch CR:	NA	File:	Dri_Lon_AD3
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Prepared using TraSiCAD Product of QMR			



Legend

LONDONDERRY RD

Font Type

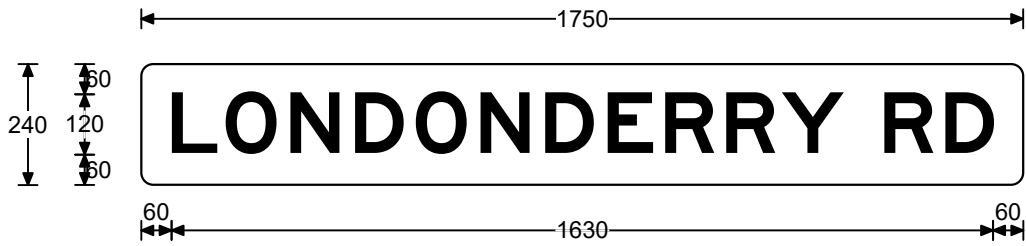
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Font Size

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Patch Detail

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Prepared using TraSiCAD Product of QMR			



Legend

LONDONDERRY RD

Font Type

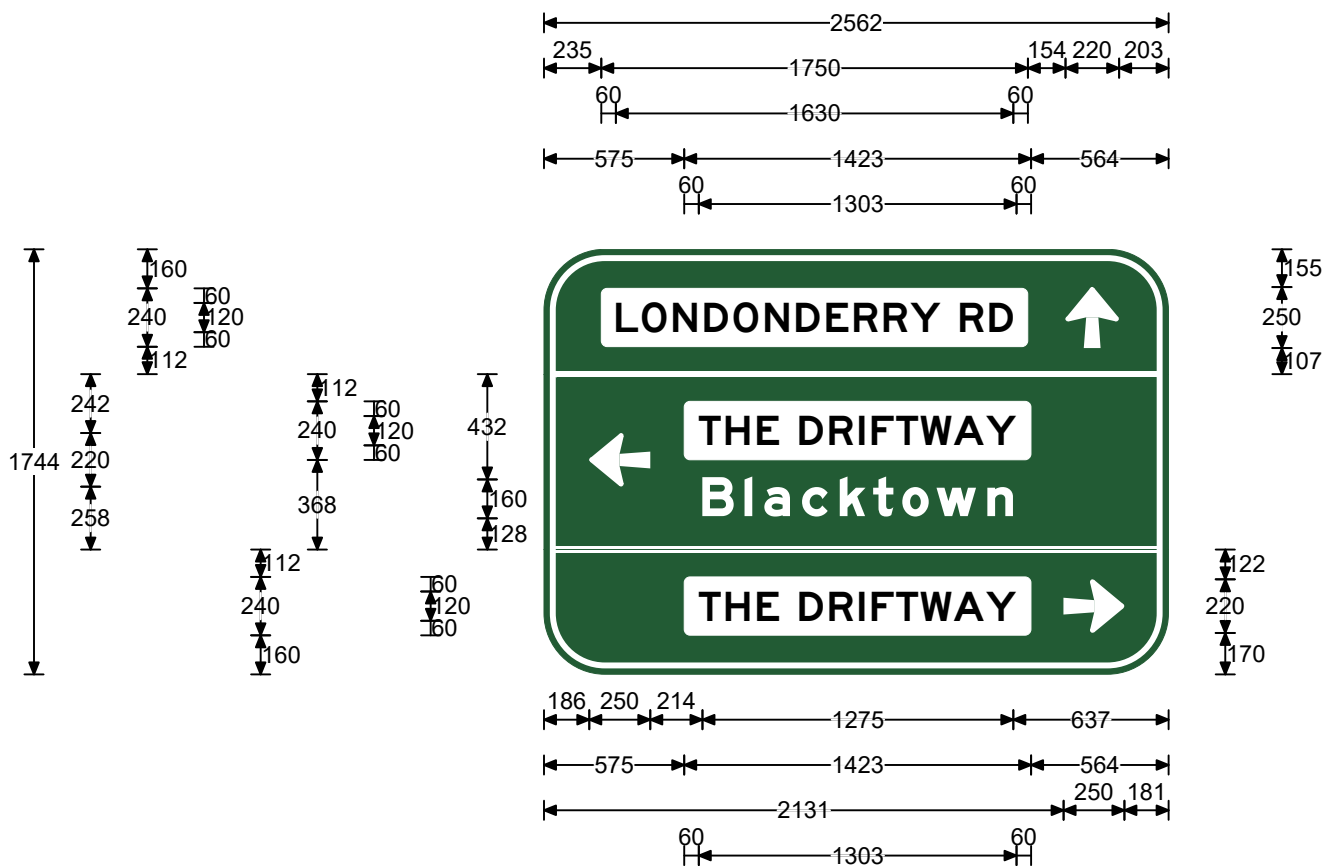
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Patch Detail

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Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_AD3
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

LONDONDERRY RD
THE DRIFTWAY
Blacktown
THE DRIFTWAY

Font Type

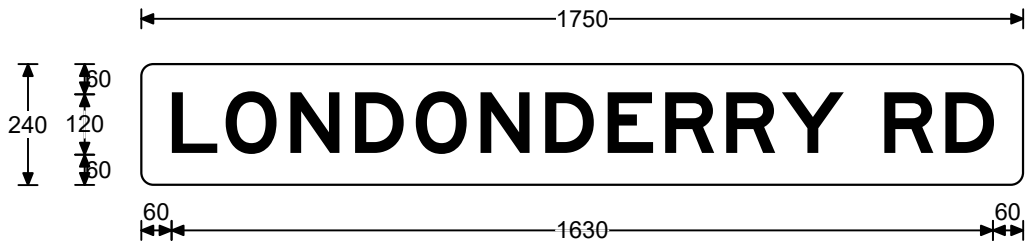
FHWA Series E2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series E2000EX

Font Size

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Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)

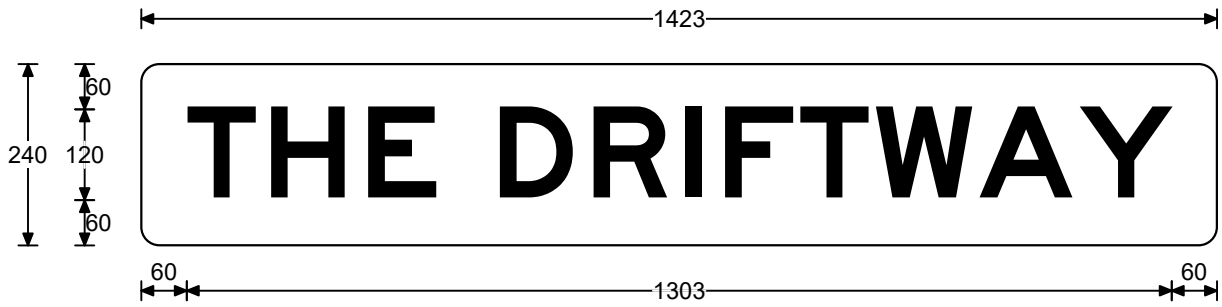
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Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend	Font Type	Font Size
LONDONDERRY RD	FHWA Series E2000EX	120

Patch Detail

Size:	240 x 1750	Date:	7/9/21
Area:	0.42 sq.m	Scale:	1:15
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_AD2
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Prepared using TraSiCAD Product of QMR			



Legend

THE DRIFTWAY

Font Type

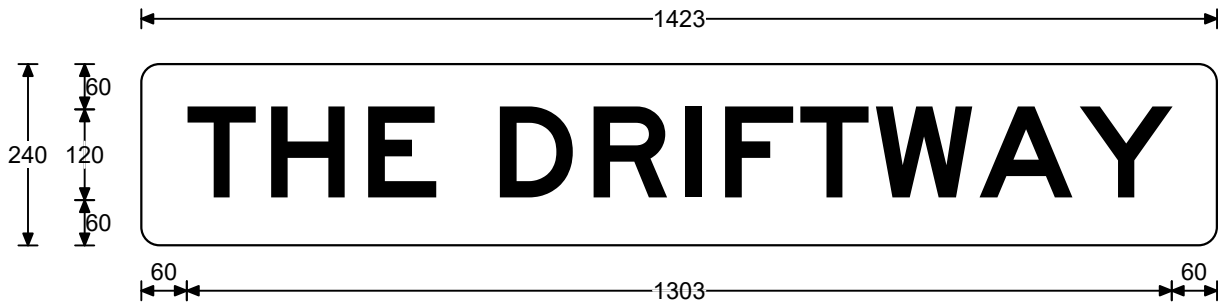
FHWA Series E2000EX

Font Size

120

Patch Detail

Size:	240 x 1423	Date:	7/9/21
Area:	0.34 sq.m	Scale:	1:10
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_AD2
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Prepared using TraSiCAD Product of QMR			



Legend

THE DRIFTWAY

Font Type

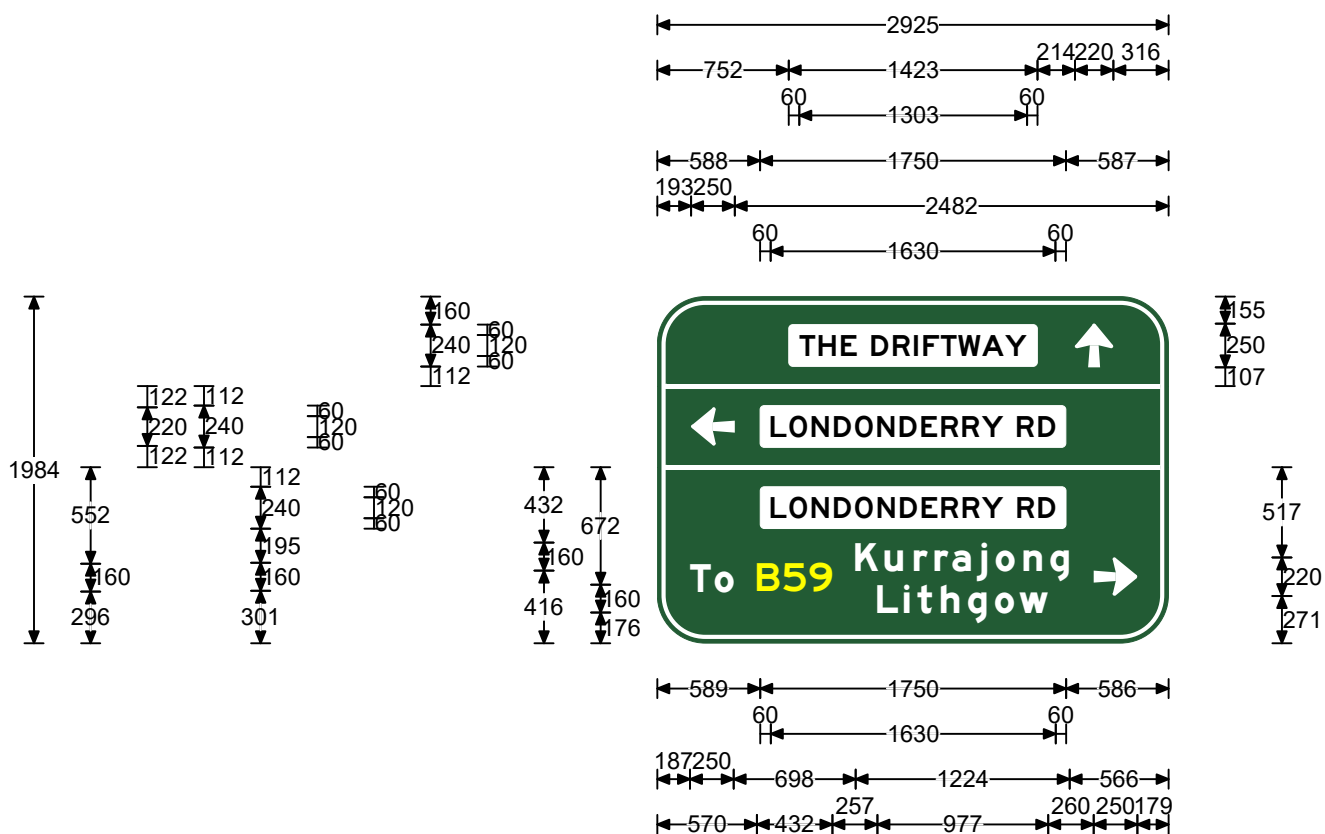
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Font Size

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Patch Detail

Size:	240 x 1423	Date:	7/9/21
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Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_AD2
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

THE DRIFTWAY
LONDONDERRY RD
LONDONDERRY RD
Kurrajong
B59
To
Lithgow

Font Type

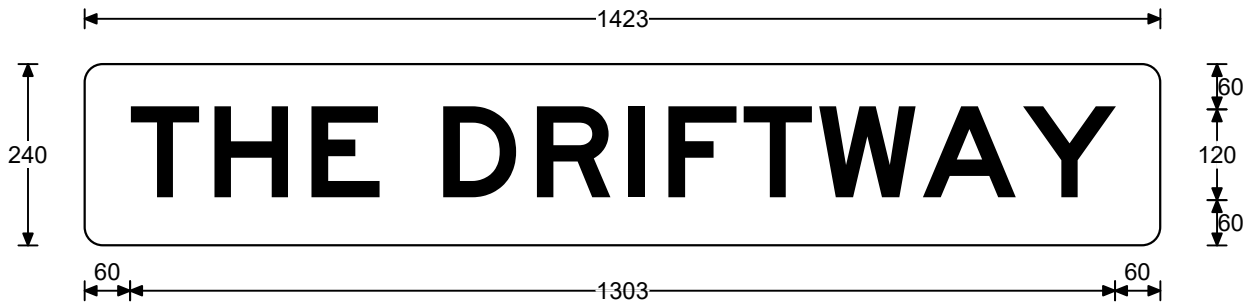
FHWA Series E2000EX
FHWA Series E2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series Em2000EX

Font Size

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120
120
160
160
160
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)
MAB Route Marker:-Cl.1100 Fluro Yellow refl lgd(AS1906.1)

Size:	1984 x 2925	Date:	7/9/21
Area:	5.8 sq.m	Scale:	1:43.2
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	275	Checked:	
Patch CR:	24	File:	Dri_Lon_AD1
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

THE DRIFTWAY

Font Type

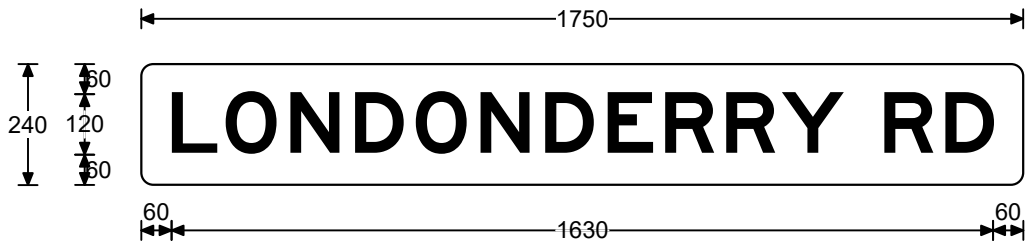
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Font Size

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Patch Detail

Size:	240 x 1423	Date:	7/9/21
Area:	0.34 sq.m	Scale:	1:10
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Patch CR:	NA	File:	Dri_Lon_AD1
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Prepared using TraSiCAD Product of QMR			



Legend

LONDONDERRY RD

Font Type

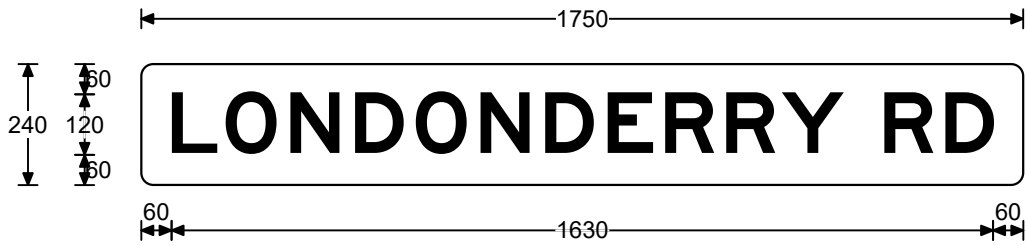
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Font Size

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Patch Detail

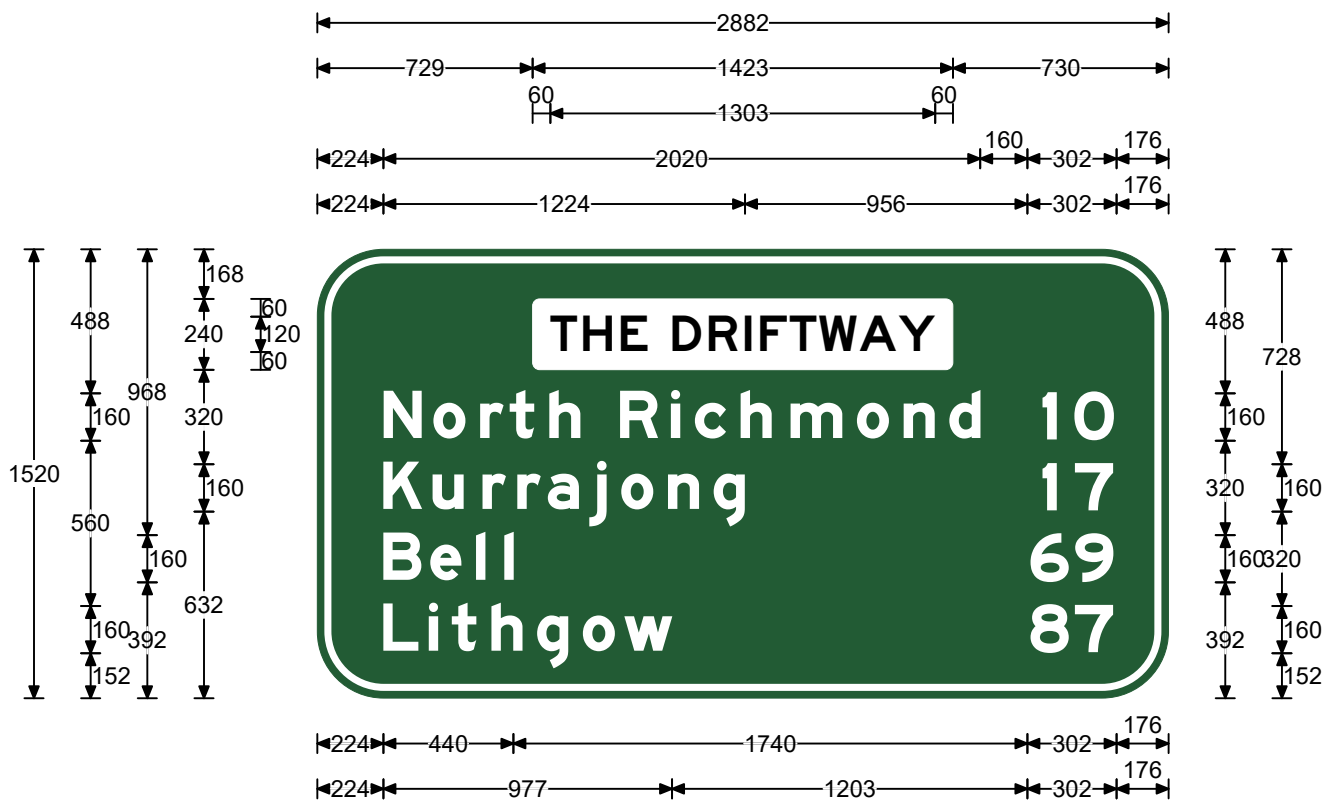
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Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_AD1
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Prepared using TraSiCAD Product of QMR			



Legend	Font Type	Font Size
LONDONDERRY RD	FHWA Series E2000EX	120

Patch Detail

Size:	240 x 1750	Date:	7/9/21
Area:	0.42 sq.m	Scale:	1:15
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Dri_Lon_AD1
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Prepared using TraSiCAD Product of QMR			



Legend

THE DRIFTWAY
North Richmond
10
17
Kurrajong
69
Bell
87
Lithgow

Font Type

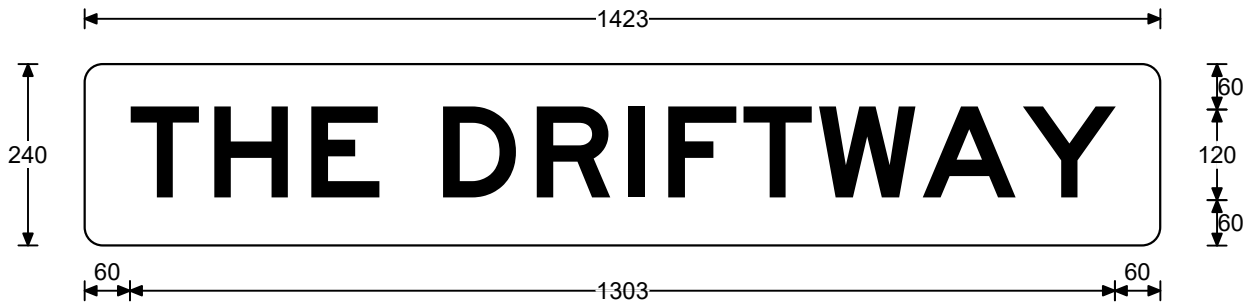
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series Em2000EX

Font Size

120
160
160
160
160
160
160
160
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)

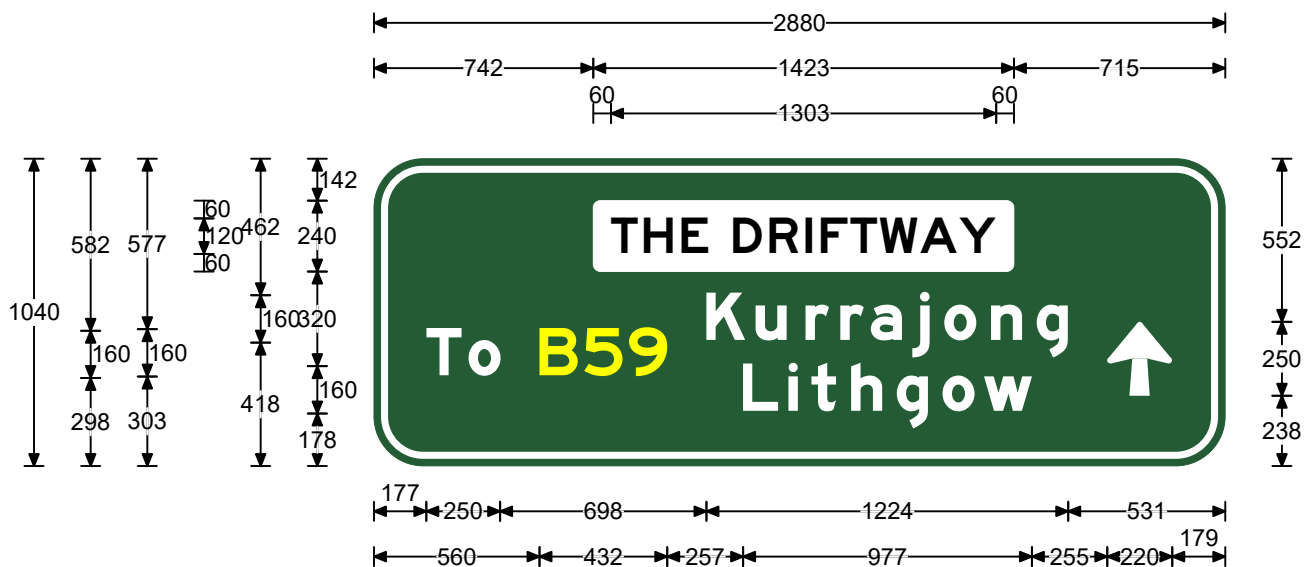
Size:	1520 x 2882	Date:	7/9/21
Area:	4.38 sq.m	Scale:	1:25.6
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	225	Checked:	
Patch CR:	24	File:	Bla_Dri_RD1
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



<u>Legend</u>	<u>Font Type</u>	<u>Font Size</u>
THE DRIFTWAY	FHWA Series E2000EX	120

Patch Detail

Size:	240 x 1423	Date:	7/9/21
Area:	0.34 sq.m	Scale:	1:10
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_RD1
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

THE DRIFTWAY
Kurrajong
B59
To
Lithgow

Font Type

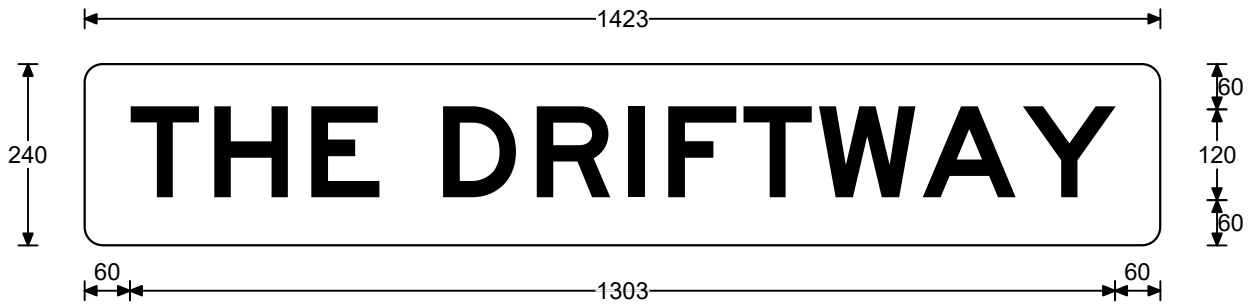
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FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series Em2000EX

Font Size

120
160
160
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160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)
MAB Route Marker:-Cl.1100 Fluro Yellow refl lgd(AS1906.1)

Size:	1040 x 2880	Date:	6/9/21
Area:	3 sq.m	Scale:	1:25.6
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	167	Checked:	
Patch CR:	24	File:	Bla_Dri_ID4
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

THE DRIFTWAY

Font Type

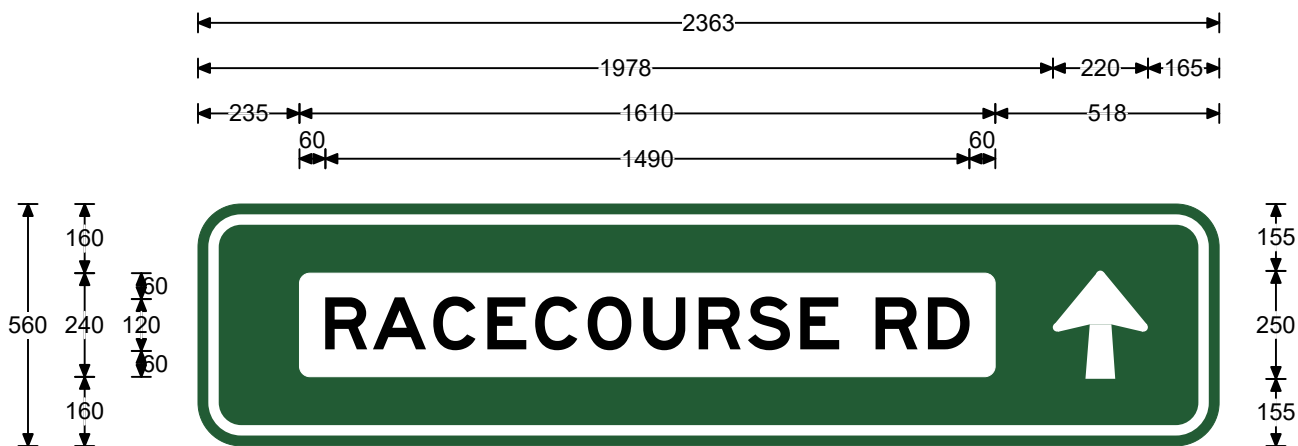
FHWA Series E2000EX

Font Size

120

Patch Detail

Size:	240 x 1423	Date:	6/9/21
Area:	0.34 sq.m	Scale:	1:10
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_ID4
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

RACECOURSE RD

Font Type

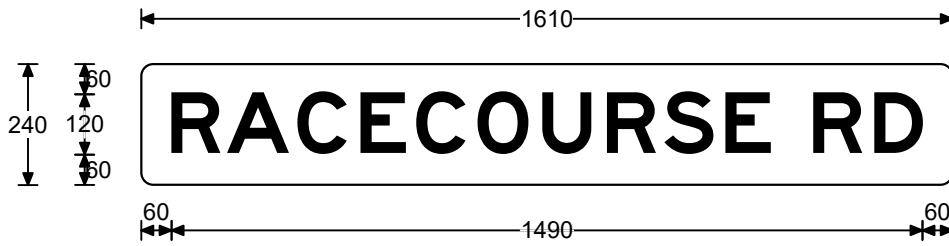
FHWA Series E2000EX

Font Size

120

Specifications:
 Aluminium Sign
 Cl.400 White refl lgd(AS1906.1)
 Cl.400 Dark Green refl grd(AS1906.1)
 Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)

Size:	560 x 2363	Date:	6/9/21
Area:	1.32 sq.m	Scale:	1:17.5
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	100	Checked:	
Patch CR:	24	File:	Bla_Dri_ID3
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

RACECOURSE RD

Font Type

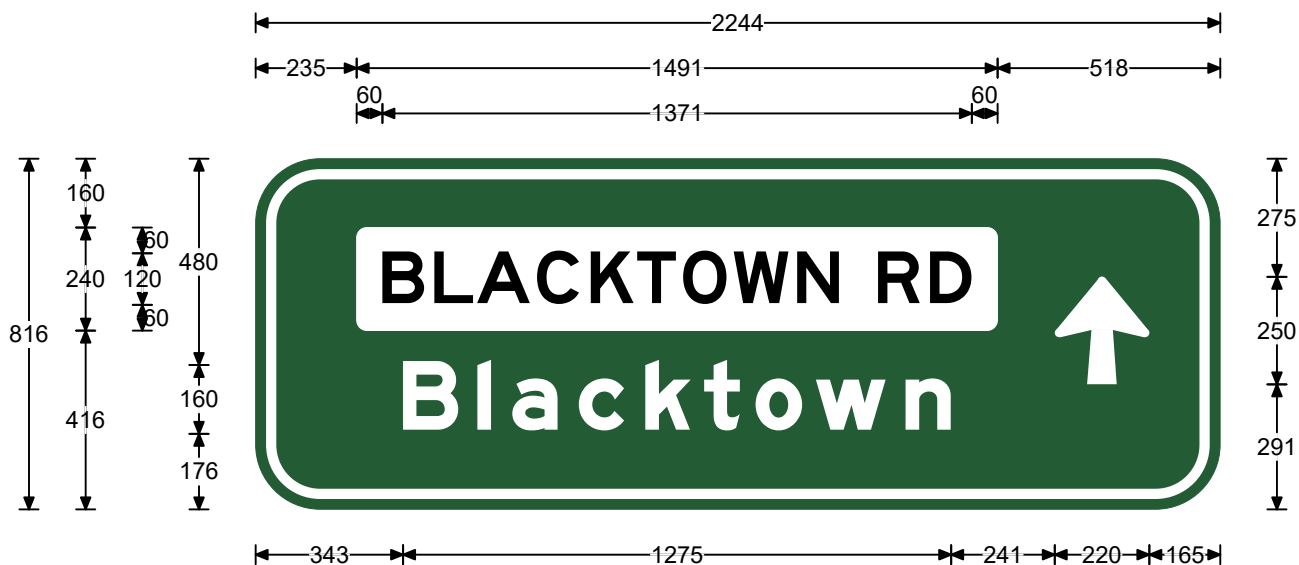
FHWA Series E2000EX

Font Size

120

Patch Detail

Size:	240 x 1610	Date:	6/9/21
Area:	0.39 sq.m	Scale:	1:15
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_ID3
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

BLACKTOWN RD
Blacktown

Font Type

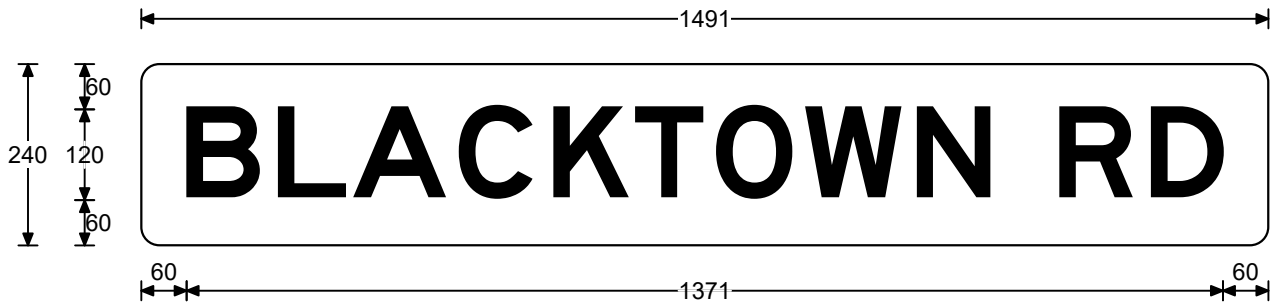
FHWA Series E2000EX
FHWA Series Em2000EX

Font Size

120
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)

Size:	816 x 2244	Date:	6/9/21
Area:	1.83 sq.m	Scale:	1:17.6
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	150	Checked:	
Patch CR:	24	File:	Bla_Dri_ID2
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

BLACKTOWN RD

Font Type

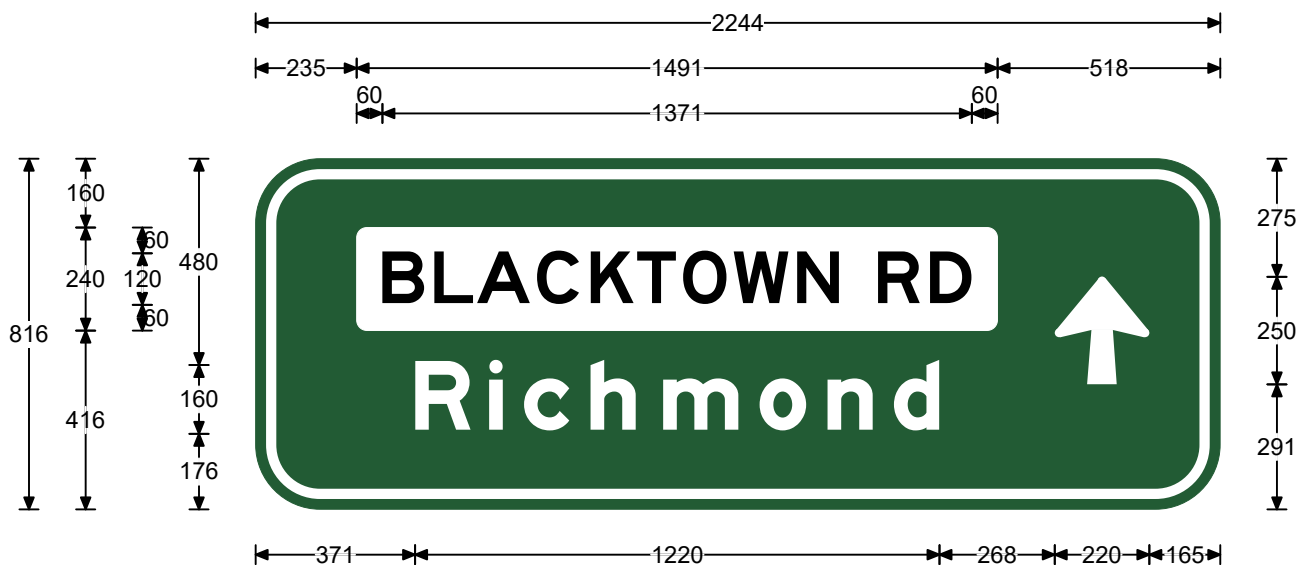
FHWA Series E2000EX

Font Size

120

Patch Detail

Size:	240 x 1491	Date:	6/9/21
Area:	0.36 sq.m	Scale:	1:10
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_ID2
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

BLACKTOWN RD
Richmond

Font Type

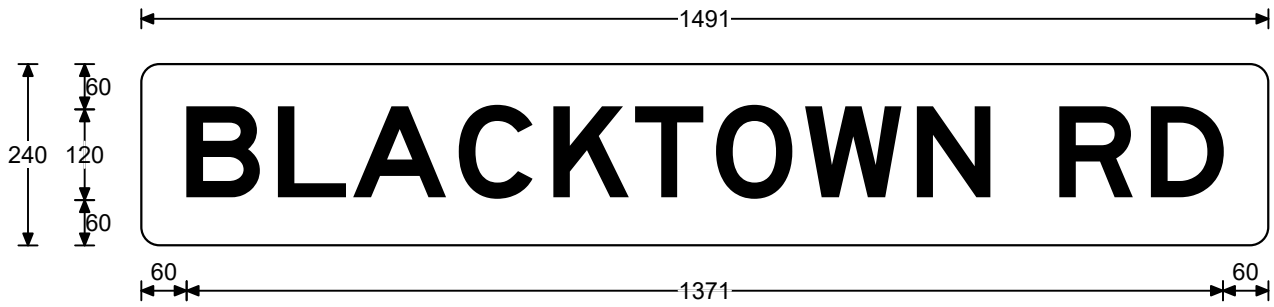
FHWA Series E2000EX
FHWA Series Em2000EX

Font Size

120
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)

Size:	816 x 2244	Date:	6/9/21
Area:	1.83 sq.m	Scale:	1:17.6
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	150	Checked:	
Patch CR:	24	File:	Bla_Dri_ID1
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

BLACKTOWN RD

Font Type

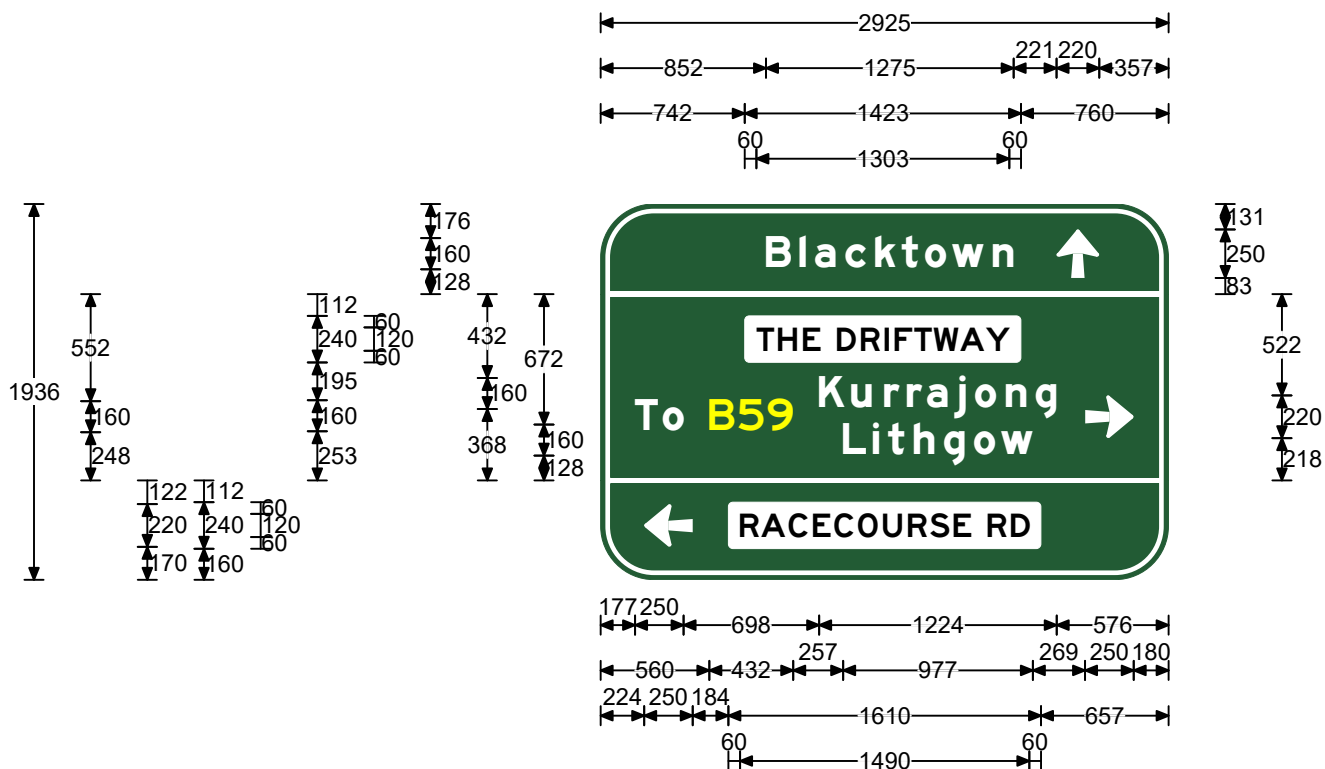
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Font Size

120

Patch Detail

Size:	240 x 1491	Date:	6/9/21
Area:	0.36 sq.m	Scale:	1:10
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_ID1
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

Blacktown
THE DRIFTWAY
Kurrajong
B59
To
Lithgow
RACECOURSE RD

Font Type

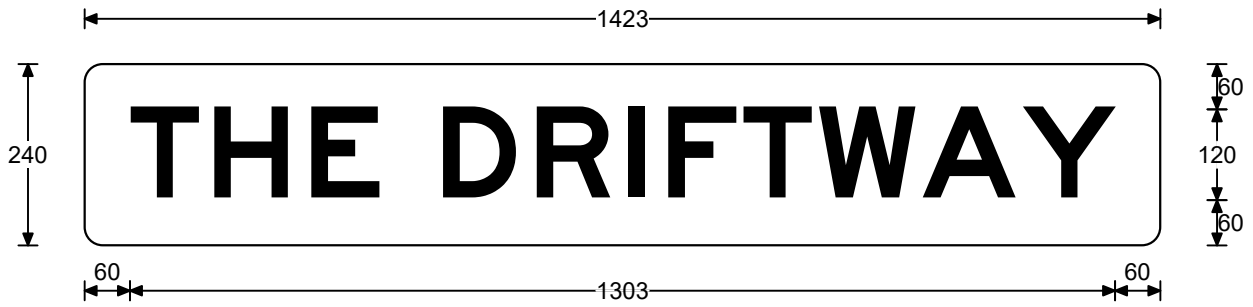
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FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series Em2000EX
FHWA Series E2000EX

Font Size

160
120
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160
120

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)
MAB Route Marker:-Cl.1100 Fluro Yellow refl lgd(AS1906.1)

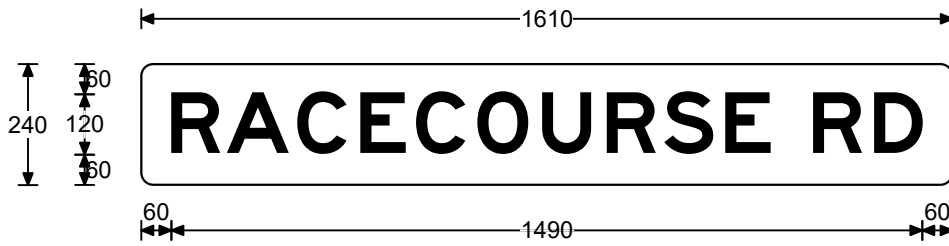
Size:	1936 x 2925	Date:	6/9/21
Area:	5.66 sq.m	Scale:	1:38.9
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	275	Checked:	
Patch CR:	24	File:	Bla_Dri_AD4
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



<u>Legend</u>	<u>Font Type</u>	<u>Font Size</u>
THE DRIFTWAY	FHWA Series E2000EX	120

Patch Detail

Size:	240 x 1423	Date:	6/9/21
Area:	0.34 sq.m	Scale:	1:10
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_AD4
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

RACECOURSE RD

Font Type

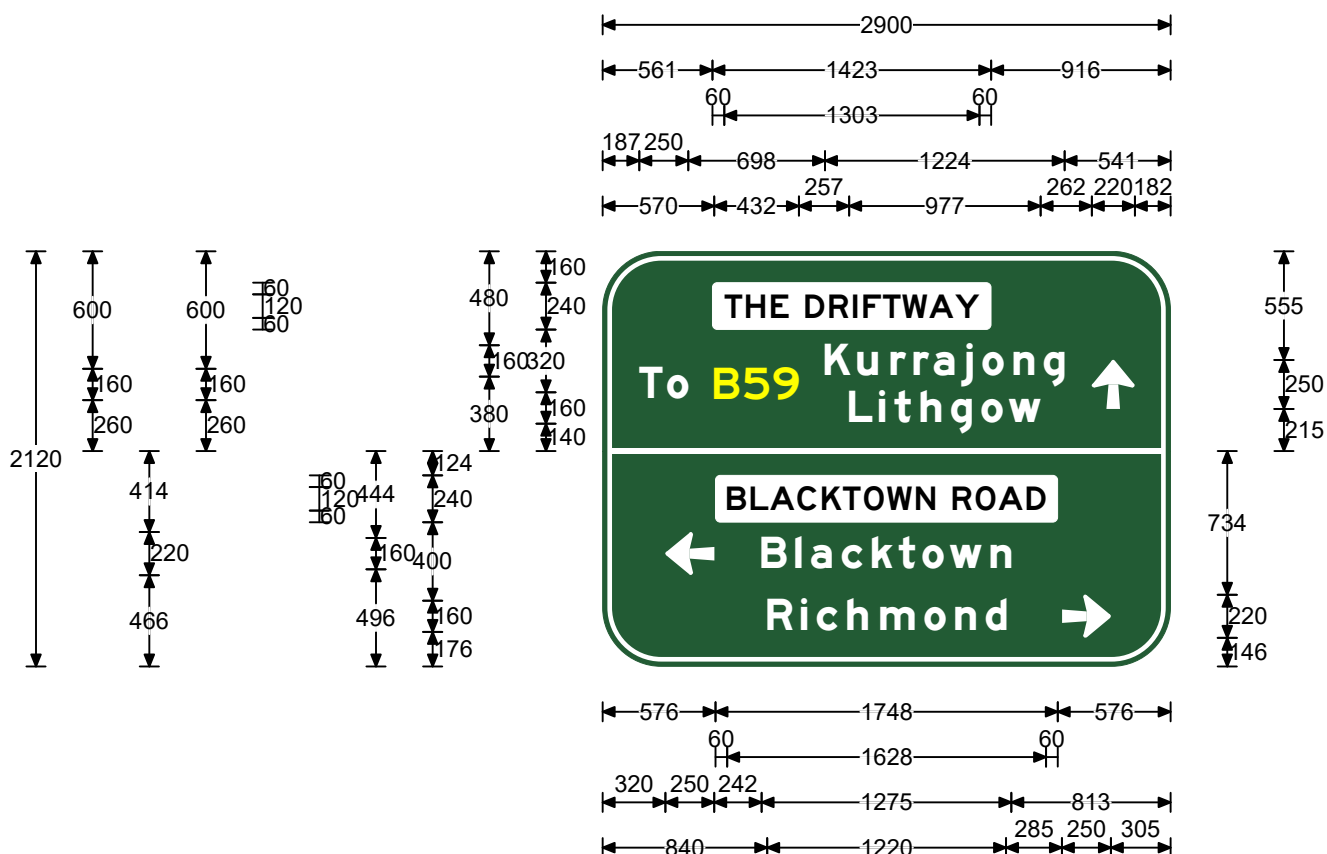
FHWA Series E2000EX

Font Size

120

Patch Detail

Size:	240 x 1610	Date:	6/9/21
Area:	0.39 sq.m	Scale:	1:15
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_AD4
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

THE DRIFTWAY
Kurrajong
To
B59
Lithgow
BLACKTOWN ROAD
Blacktown
Richmond

Font Type

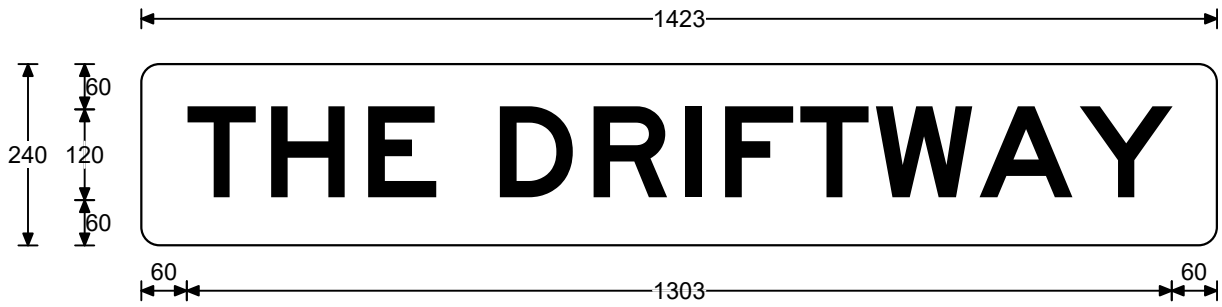
FHWA Series E2000EX
FHWA Series Em2000EX
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FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series Em2000EX

Font Size

120
160
160
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160
120
160
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)
MAB Route Marker:-Cl.1100 Fluro Yellow refl lgd(AS1906.1)

Size:	2120 x 2900	Date:	6/9/21
Area:	6.15 sq.m	Scale:	1:38.6
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	300	Checked:	
Patch CR:	24	File:	Bla_Dri_AD3
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

THE DRIFTWAY

Font Type

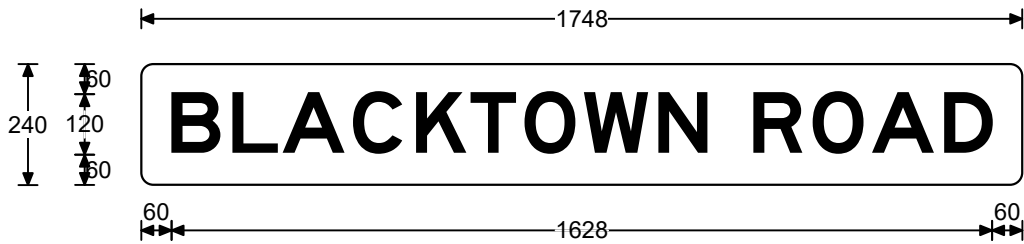
FHWA Series E2000EX

Font Size

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Patch Detail

Size:	240 x 1423	Date:	6/9/21
Area:	0.34 sq.m	Scale:	1:10
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_AD3
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

BLACKTOWN ROAD

Font Type

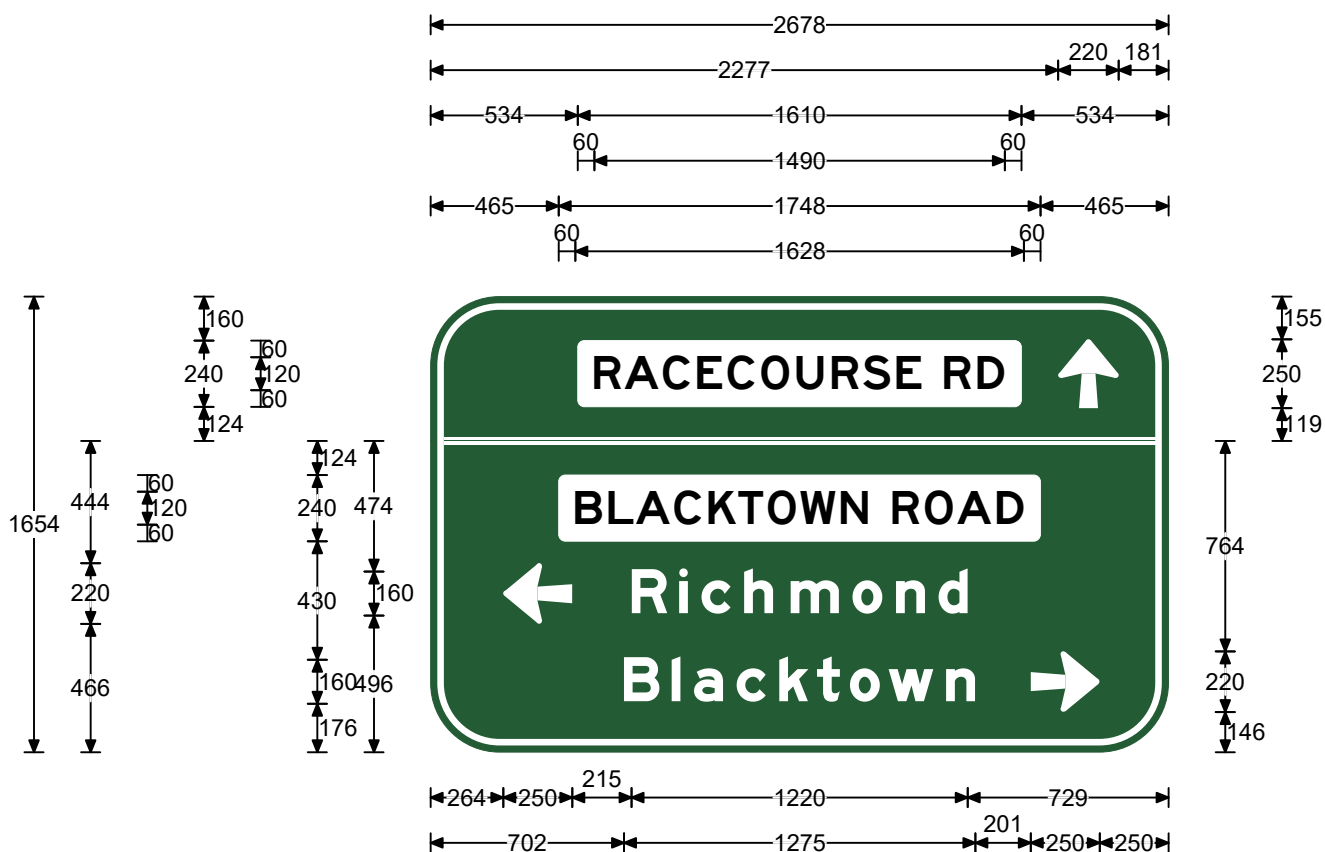
FHWA Series E2000EX

Font Size

120

Patch Detail

Size:	240 x 1748	Date:	6/9/21
Area:	0.42 sq.m	Scale:	1:15
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_AD3
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



Legend

RACECOURSE RD
BLACKTOWN ROAD
Richmond
Blacktown

Font Type

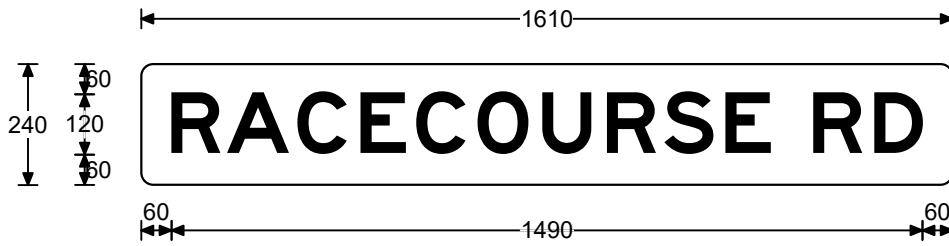
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FHWA Series E2000EX
FHWA Series Em2000EX
FHWA Series Em2000EX

Font Size

120
120
160
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)

Size:	1654 x 2678	Date:	6/9/21
Area:	4.43 sq.m	Scale:	1:27.4
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	250	Checked:	
Patch CR:	24	File:	Bla_Dri_AD2
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

RACECOURSE RD

Font Type

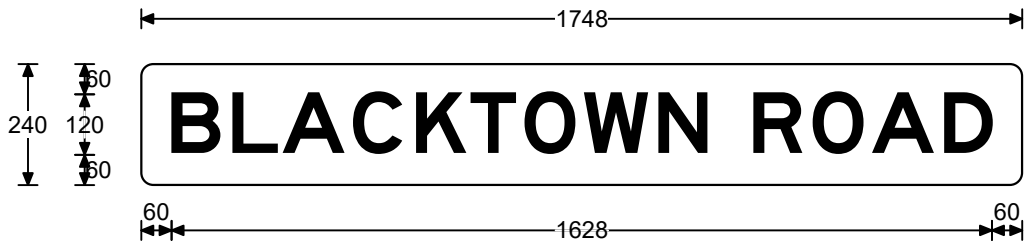
FHWA Series E2000EX

Font Size

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Patch Detail

Size:	240 x 1610	Date:	6/9/21
Area:	0.39 sq.m	Scale:	1:15
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_AD2
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

BLACKTOWN ROAD

Font Type

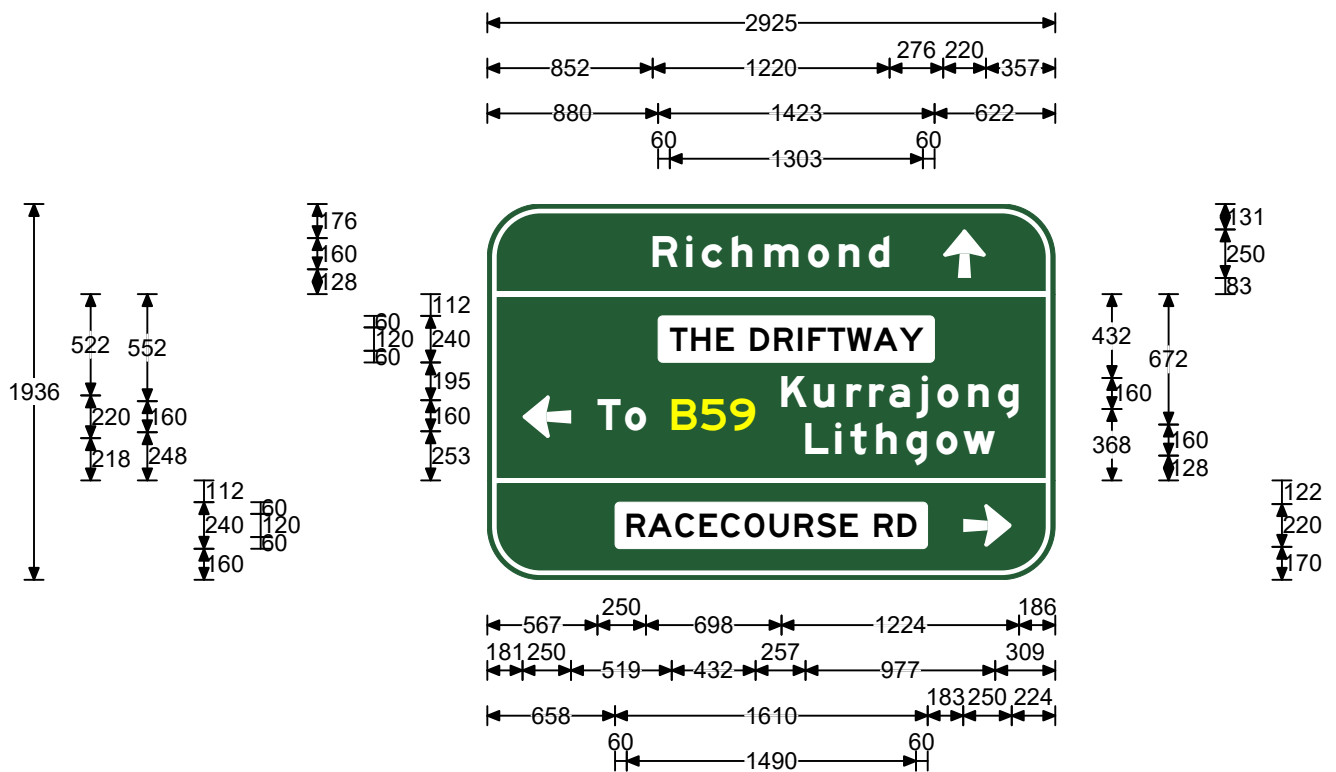
FHWA Series E2000EX

Font Size

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Patch Detail

Size:	240 x 1748	Date:	6/9/21
Area:	0.42 sq.m	Scale:	1:15
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_AD2
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

Richmond
THE DRIFTWAY
Kurrajong
B59
To
Lithgow
RACECOURSE RD

Font Type

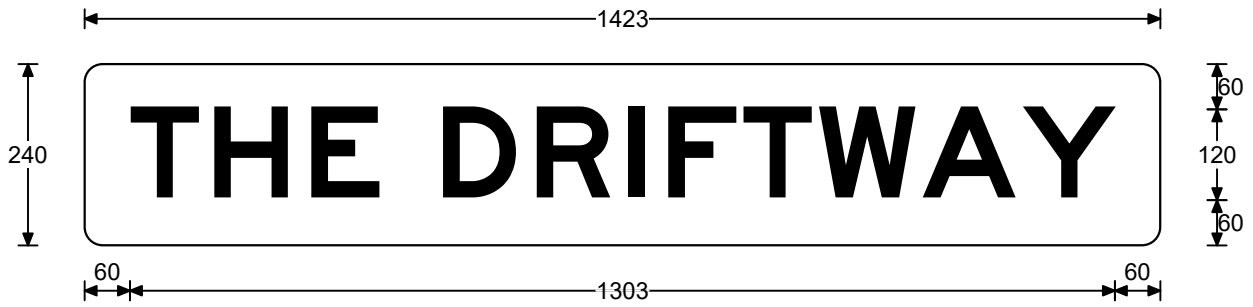
FHWA Series Em2000EX
FHWA Series E2000EX
FHWA Series Em2000EX
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FHWA Series Em2000EX
FHWA Series Em2000EX
FHWA Series E2000EX

Font Size

160
120
160
160
160
160
120

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Dark Green refl grd(AS1906.1)
Road Name Patch:-Black lgd/Cl.400 White refl grd(AS1906.1)
MAB Route Marker:-Cl.1100 Fluro Yellow refl lgd(AS1906.1)

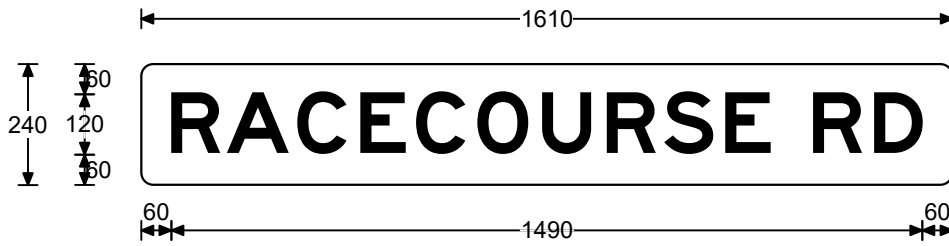
Size:	1936 x 2925	Date:	6/9/21
Area:	5.66 sq.m	Scale:	1:38.9
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	275	Checked:	
Patch CR:	24	File:	Bla_Dri_AD1
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project



<u>Legend</u>	<u>Font Type</u>	<u>Font Size</u>
THE DRIFTWAY	FHWA Series E2000EX	120

Patch Detail

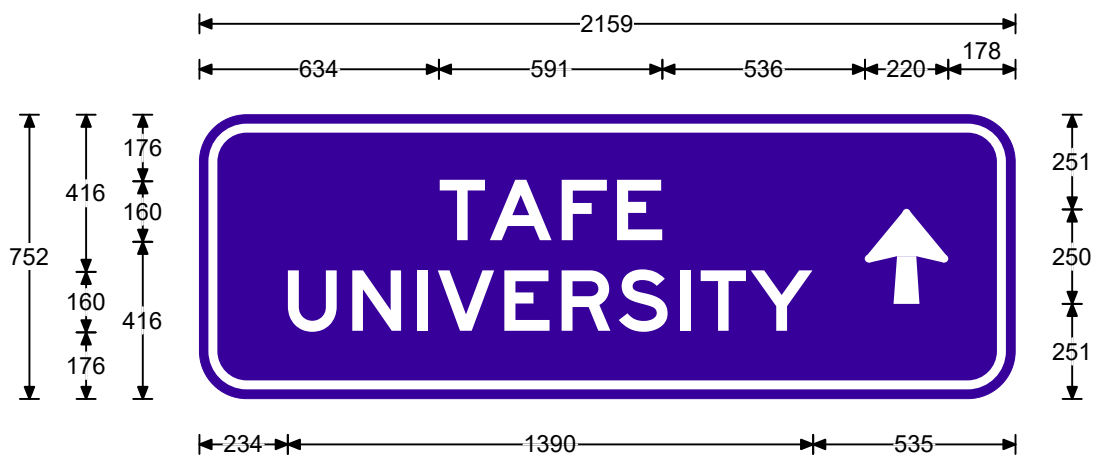
Size:	240 x 1423	Date:	6/9/21
Area:	0.34 sq.m	Scale:	1:10
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_AD1
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



<u>Legend</u>	<u>Font Type</u>	<u>Font Size</u>
RACECOURSE RD	FHWA Series E2000EX	120

Patch Detail

Size:	240 x 1610	Date:	6/9/21
Area:	0.39 sq.m	Scale:	1:15
Border:	0 x 0	Drawn:	daviesm
Cnr Rad:	24	Checked:	
Patch CR:	NA	File:	Bla_Dri_AD1
		Path:	H:\Signs\Sydney Region Signs\Guide & Project Management Signs\The Driftway Upgrade Project
Prepared using TraSiCAD Product of QMR			



Legend

TAFE
UNIVERSITY

Font Type

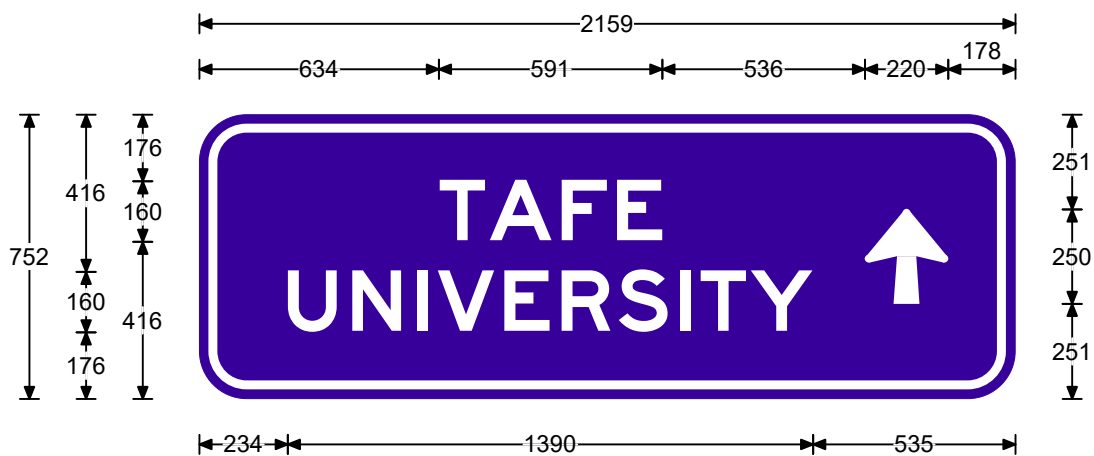
FHWA Series E2000EX
FHWA Series E2000EX

Font Size

160
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Blue refl grd(AS1906.1)

Size:	752 x 2159	Date:	7/2/24
Area:	1.62 sq.m	Scale:	1:20
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	125	Checked:	
Patch CR:	NA	File:	Bla_Dri_AD1a
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide Signs & Project\Hawkesbury Nepean Flood Project\The Driftway Upgrade Project
			Bla_Dri_AD1a



Legend

TAFE
UNIVERSITY

Font Type

FHWA Series E2000EX
FHWA Series E2000EX

Font Size

160
160

Specifications:
Aluminium Sign
Cl.400 White refl lgd(AS1906.1)
Cl.400 Blue refl grd(AS1906.1)

Size:	752 x 2159	Date:	8/2/24
Area:	1.62 sq.m	Scale:	1:20
Border:	24 x 24	Drawn:	daviesm
Cnr Rad:	125	Checked:	
Patch CR:	NA	File:	Bla_Dri_ID1a
Prepared using TraSiCAD Product of QMR		Path:	H:\Signs\Sydney Region Signs\Guide Signs & Project\Hawkesbury Nepean Flood Project\The Driftway Upgrade Project
		Bla_Dri_ID1a	