

Lockyer Valley Regional Council

26 Railway Street, PO Box 82, Gatton Qld 4343
All official correspondence to be addressed to the CEO
Telephone 1300 005 872 | Facsimile (07) 5462 3269
Email mailbox@lvrc.qld.gov.au | www.lockyervalley.qld.gov.au

Application ID: OW2023/0006
Enquiries: Tammy Thomas
Your Reference: F101
Contact: 5462 0687

27 April 2023

Robin Russell & Associates Pty Ltd 204/6 Babarra Street STAFFORD QLD 4053

Attention: Tania Deller

Dear Tania

Electricity Reticulation Design located at Redbank Creek Road and described as Lots 95 CA311434 and Lot 96 SP225226

Thank you for your correspondence dated 22 February 2023 enclosing your proposed electrical reticulation design for the above development. The drawings submitted are detailed in Table 1 below.

Project Number Drawing		Title			Electrical	Date
	Number				Consultant	
Energex Project	F101-01 to	Electricity	Reticulation	-	Robin Russell	14/02/2023
No - S0107741	F101-04	Residential			& Associates	
	Revision A				Pty Ltd	

Table 1 – Plans Subject to this Notification

Council acknowledges receipt of your drawing/s referenced in Table 1 and advises that there are no objections to the reticulation design. However, it is noted that the Operational Works for Civil Works is still under assessment which may cause changes to the electrical reticulation design. Should changes be required to the electrical reticulation design, amended drawings are to be provided to Council for review and endorsement.

This correspondence has been issued on the basis that the information on the drawings you supplied are compliant with the associated development approval. The Registered Professional Engineer Queensland (RPEQ) certifying the drawings must ensure that the Public Lighting is designed in accordance with the Australian Standard AS1158 Lighting for roads and public spaces series.

Please be aware that unless approved in writing, the Lockyer Valley Regional Council requires the electricity reticulation to be located in the electricity service corridor detailed on the Institute of Public Works Engineering Australasia standard drawing RS-100 *Public Utilities Typical Service Corridors and Alignments*.

It is the responsibility of design engineer for electrical reticulation design to check civil works design drawings to ensure that there are no conflicts with proposed works. Council will accept no responsibility for any errors or omissions made on your behalf.

Note that approval to undertake works within the road reserve is to be obtained from Council prior to works commencing, by lodging an <u>Application to Undertake Works on a Road</u> to <u>mailbox@lvrc.qld.gov.au</u>.

Upon completion of the works, a copy of the Energex Certificate of Supply must be submitted to Council.

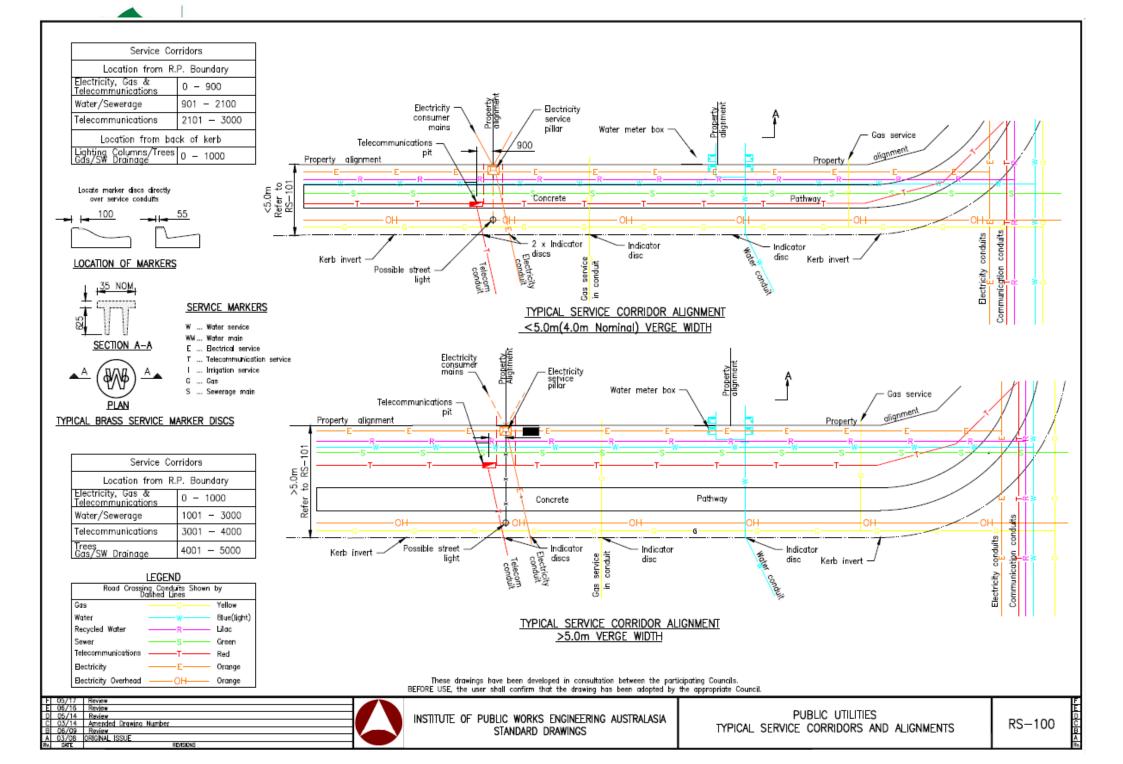
Should you require any additional information please contact Council's Technical Planning Officer, Tammy Thomas on 5462 0687.

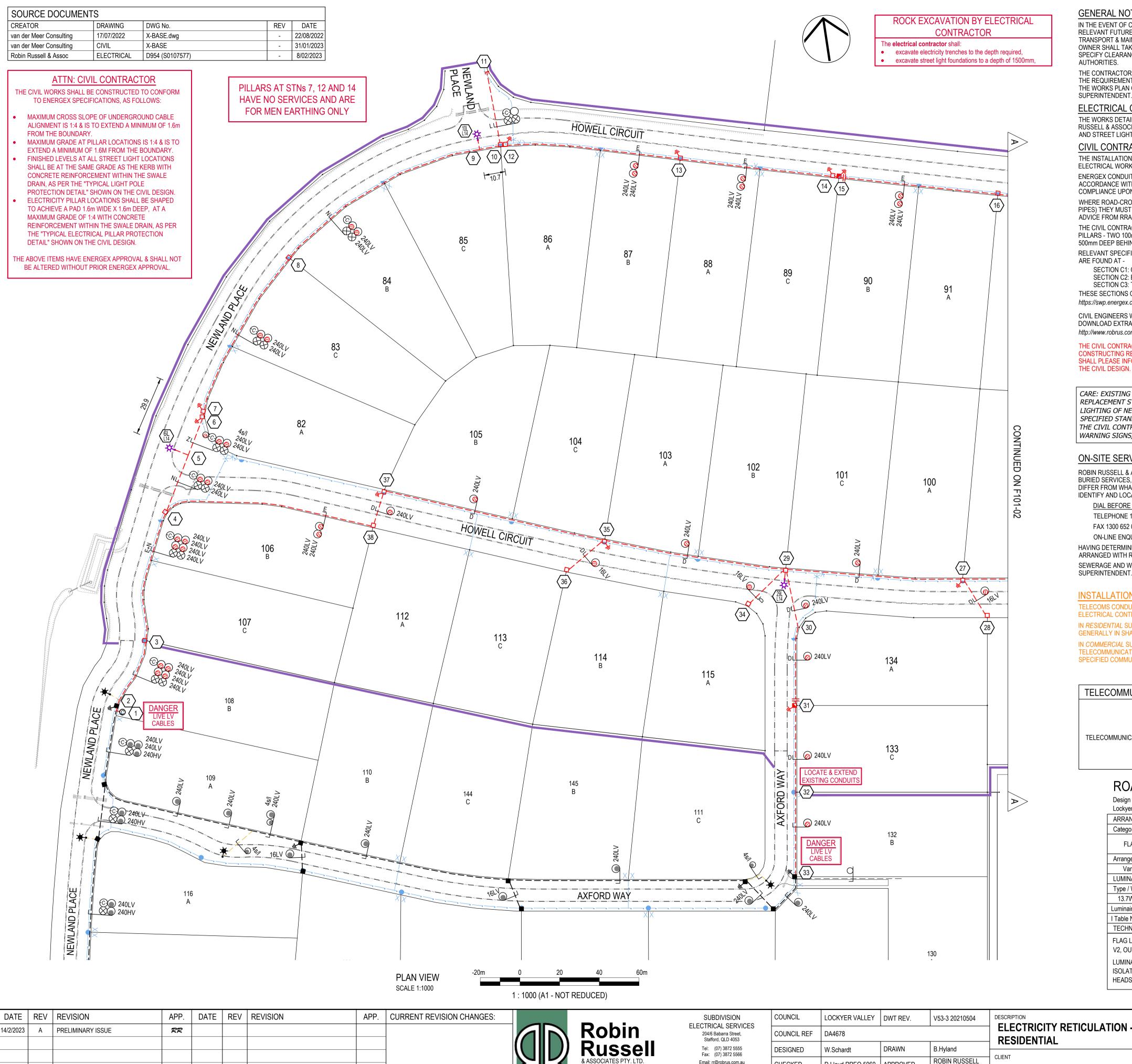
Yours faithfully

Tammee Van Bael

ACTING COORDINATOR DEVELOPMENT ASSESSMENT

Encl IPWEQ Standard Drawing for Electrical Reticulation Electrical Reticulation – Residential (Sheets 1 to 4)





Email: rr@robrus.com.au

www.robrus.com.au

A.B.N. 78 010 589 661

CONSULTING ENGINEERS - ELECTRICAL

CHECKED

D.Lloyd RPEQ 5060 | APPROVED

SIGNED

14/2/2023

Reli Pinels

GENERAL NOTES

IN THE EVENT OF CONFLICT BETWEEN THIS WORKS PLAN AND DRAWINGS AND SPECIFICATIONS OF THE RELEVANT FUTURE ASSET OWNER, I.E. ENERGEX, ERGON, LOCAL AUTHORITY, DEPARTMENT OF TRANSPORT & MAIN ROADS, NBN[™], ETC., THE DRAWINGS AND SPECIFICATIONS OF THE FUTURE ASSET OWNER SHALL TAKE PRECEDENCE. EXCEPTIONS APPLY WHERE RRA DESIGN DOCUMENTATION SPECIFY CLEARANCES, DEPTHS & SEPARATIONS GREATER THAN THE MINIMUM REQUIRED BY THE AUTHORITIES.

THE CONTRACTOR SHALL NOT ACCEPT A VERBAL INSTRUCTION FROM ANY PERSON TO DEPART FROM THE REQUIREMENTS OF THIS WORKS PLAN OR RRA GENERAL SPECIFICATION. ANY DEPARTURE FROM THE WORKS PLAN OR SPECIFICATION MUST FIRST BE AUTHORISED IN WRITING BY THE CONTRACT SUPERINTENDENT.

ELECTRICAL CONTRACTOR

THE WORKS DETAILED ON THIS DRAWING SHALL BE CONSTRUCTED IN ACCORDANCE WITH ROBIN RUSSELL & ASSOCIATES' GENERAL SPECIFICATION FOR INSTALLATION OF ELECTRICITY RETICULATION AND STREET LIGHTING - ISSUE 'AA'.

CIVIL CONTRACTOR

THE INSTALLATION OF ALL ELECTRICAL CONDUITS SHALL BE SUPERVISED BY THE HOLDER OF AN ELECTRICAL WORK LICENCE - ELECTRICAL SAFETY ACT 2002.

ENERGEX CONDUITS AND TRANSFORMER SITE RETAINING WALLS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH ENERGEX'S SPECIFICATIONS (SEE BELOW). THEY WILL BE INSPECTED FOR COMPLIANCE UPON COMPLETION.

WHERE ROAD-CROSSING CONDUITS ARE INSTALLED DEEPER THAN USUAL (UNDER CULVERTS OR PIPES) THEY MUST RISE TO A DEPTH OF NOT MORE THAN 1200mm AT EACH END. IF UNCERTAIN, SEEK ADVICE FROM RRA CONSTRUCTION COORDINATOR

THE CIVIL CONTRACTOR SHALL INSTALL ENVELOPING CONDUITS UNDER RETAINING WALLS BEHIND PILLARS - TWO 100mm CONDUITS INTO EACH LOT (ONE FOR ELECTRICITY, ONE FOR COMMUNICATIONS), 500mm DEEP BEHIND THE PILLAR, NEAR GROUND LEVEL INSIDE THE LOT.

RELEVANT SPECIFICATIONS IN ENERGEX'S UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL ARE FOUND AT -

SECTION C1: CONDUITS

SECTION C2: EXCAVATION SECTION C3: TRANSFORMER SITES

THESE SECTIONS OF THE MANUAL CAN BE DOWNLOADED FROM THE FOLLOWING ENERGEX WEB SITE https://swp.energex.com.au/service_providers/technical_docs/asp/technical_documents.asp

CIVIL ENGINEERS WHO HAVE REGISTERED FOR ACCESS TO THE FOLLOWING RRA WEBSITE MAY DOWNLOAD EXTRACTS FROM ENERGEX'S MANUAL AT: http://www.robrus.com.au

THE CIVIL CONTRACTOR SHALL ENSURE THAT ALL CONDUITS HAVE BEEN INSTALLED BEFORE CONSTRUCTING RETAINING WALLS, PATHS, DRIVEWAYS & WATER SERVICES. THE CIVIL CONTRACTOR SHALL PLEASE INFORM THE ELECTRICAL CONTRACTOR OF ANY 'AS CONSTRUCTED' DEPARTURES FROM THE CIVIL DESIGN.

CARE: EXISTING STREET LIGHTS SHALL NOT BE RECOVERED UNLESS REPLACEMENT STREET LIGHTS WILL BE COMMISSIONED BEFORE NIGHTFALL. LIGHTING OF NEW OR ALTERED EXISTING ROADS MIGHT NOT COMPLY WITH SPECIFIED STANDARDS UNTIL NEW ROAD LIGHTING HAS BEEN COMMISSIONED. THE CIVIL CONTRACTOR SHALL APPLY APPROPRIATE RISK MANAGEMENT. E.G. WARNING SIGNS, SPEED RESTRICTIONS, TEMPORARY LIGHTING, ETC.

ON-SITE SERVICES CHECKS

ROBIN RUSSELL & ASSOCIATES GIVES NO WARRANTY REGARDING THE PRESENCE OR LOCATION OF BURIED SERVICES, INCLUDING NEWLY-INSTALLED SERVICES. "AS CONSTRUCTED" LOCATIONS MAY DIFFER FROM WHAT IS DRAWN ON THIS WORKS PLAN. CONTRACTORS SHALL BE RESPONSIBLE TO IDENTIFY AND LOCATE ALL BURIED SERVICES. INITIAL IDENTIFICATION CAN BE OBTAINED FROM:

DIAL BEFORE YOU DIG SERVICE

TELEPHONE 1100

FAX 1300 652 077

ON-LINE ENQUIRIES CAN BE MADE AT: http://www.1100.com.au. HAVING DETERMINED WHICH SERVICES MAY BE PRESENT, ON-SITE LOCATIONS SHOULD THEN BE ARRANGED WITH RELEVANT SERVICE AUTHORITIES.

SEWERAGE AND WATER PLANS FOR THE SUBDIVISION MAY BE OBTAINED ON REQUEST FROM THE

INSTALLATION OF RRA DESIGNED TELECOMMUNICATIONS CONDUITS

ELECTRICAL CONTRACTORS AS SPECIFIED ON THE ASSOCIATED RRA WORKS PLAN. IN RESIDENTIAL SUBDIVISIONS, TELECOMMUNICATIONS CONDUITS SHALL BE INSTALLED GENERALLY IN SHARED TRENCHES, DIRECTLY ABOVE THE ELECTRICAL CONDUITS.

IN COMMERCIAL SUBDIVISIONS OR OTHER SITUATIONS WHERE THIS IS NOT POSSIBLE TELECOMMUNICATIONS CONDUITS SHALL BE INSTALLED IN A SEPARATE TRENCH ON THE SPECIFIED COMMUNICATIONS ALIGNMENT.

TELECOMMUNICATIONS INFRASTRUCTURE

CONDUITS & PITS | to be designed by: Robin Russell & Associates to be installed by: civil & electrical contractors

to be owned by: TELECOMMUNICATIONS INFRASTRUCTURE to be provided by:



ROAD LIGHTING INFORMATION

Design documentation in accordance with the requirements of

Lockyer Valley Regional Council specifications, Gatton Planning Scheme V2 ARRANGEMENT / GEOMETRY Category Road Name(s) HOWELL CIRCUIT, NEWLAND PLACE Arrangement Height (m) Outreach (m) Upcast Offset (m) 0.535 Varies 5.1 LUMINAIRE / LAMP DETAILS Lumens IP Rating Origin of Data Type / Wattage 1969 IP66 Sylvania Schreder 13.7W LED

Luminaire Type │ Nostalgia L14 T 2 Black AVENUE II 4K 14W V2 210729PH.cie Table No. TECHNICAL PARAMETERS

FLAG LIGHTING TO GATTON SHIRE COUNCIL PLANNING SCHEME V2, OUTCOME P40 STREET LIGHTING AND SIGNS, SOLUTION A40.1 LUMINAIRES HAVE BEEN STRATEGICALLY PLACED TO HIGHLIGHT ISOLATED CONFLICTS AT (&/OR) INTERSECTIONS, CUL-DE-SAC

HEADS, BENDS AND PEDESTRIAN CROSSINGS.

Parklands at Adare Pty Ltd

LEGEND: ELECTRICAL

— — — EXISTING UNDERGROUND CABLE / CONDUIT — — PROPOSED UNDERGROUND CABLE / CONDUIT

--- FUTURE UNDERGROUND CABLE / CONDUIT E — END OF CONDUIT POINT / CONDUIT CAP

BORED CONDUIT (12) (121) STATION NUMBERS

PADMOUNT TRANSFORMER,

©/©/© EXISTING / PROPOSED / FUTURE

(R)/(R) RING MAIN UNIT, EXISTING / PROPOSED / FUTURE

POLE TRANSFORMER, EXISTING / PROPOSED / FUTURE

CABLE FAULT INDICATOR

■/□/□ SERVICE PILLAR, EXISTING / PROPOSED / FUTURE

■/N/S LINK PILLAR, EXISTING / PROPOSED / FUTURE

LV LINKS (CLOSED), EXISTING / PROPOSED / FUTURE

EXISTING OVERHEAD ELECTRICITY MAINS

PROPOSED OVERHEAD ELECTRICITY MAINS

FUTURE OVERHEAD ELECTRICITY MAINS

O/O/O HV POLE, EXISTING / PROPOSED / FUTURE

• / • / • LV POLE, EXISTING / PROPOSED / FUTURE

-||•|/-||•| EARTH, EXISTING / PROPOSED / FUTURE

* STREET LIGHT, EXISTING / PROPOSED / FUTURE

— — EXISTING RATE 3 STREETLIGHT CABLE

— — PROPOSED RATE 3 STREETLIGHT CABLE — — FUTURE RATE 3 STREETLIGHT CABLE

RATE 3 STREET LIGHT, T/T/T EXISTING / PROPOSED / FUTURE

RATE 3 SWITCHBOARD, EXISTING / PROPOSED

— — EXISTING CONSUMERS UNDERGROUND CABLE

— — PROPOSED CONSUMERS UNDERGROUND CABLE

TO BE RECOVERED

● / ● CABLE, EXISTING / PROPOSED

O 32 - 50mm HD CONDUIT

80/100mm LD CONDUIT

100mm WHITE ENERGEX COMMS. CONDUIT

 \otimes 125mm LD CONDUIT

ELECTRIC CABLE MARKER PLATE

"AS CONSTRUCTED" DOCUMENTS

The electrical contractor shall email the "as constructed" drawing,

test results & closure documents to:

as.constructed@robrus.com.au

UNDERGROUND CABLE CERTIFICATION

All cables detailed on this drawing have been checked using the cable locator described below and are, according to measurements taken, on the correct alignment and at correct depths below the finished level, except as marked up. Alignments are subject to the

accuracy of survey pegs present at the time of measurement. Date Cables Checked: Name of Person Who Conducted Checks

Certified (signature of checker) Phone No. of checker:

CONSTRUCTION CONTACTS

ELECTRICAL ENGINEER ROBIN RUSSELL & ASSOCIATES PTY LTD DESIGNER

WILLIAM SCHARDT Ph: 0419 778 552 CONSTRUCTION COORDINATOR

SHANE HYDE Ph: 0419 021 772 CIVIL ENGINEER

van der Meer Consulting CALVIN KIRK Ph: (07) 3021 6600

SURVEYOR BPLANNED & SURVEYED JIM GOODWIN Ph: (07) 3161 1501

SITE INFORMATION

TOTAL NUMBER OF LOTS

PROPERTY DESCRIPTION PROPOSED LOTS 82 - 107, 112 - 115, 133 - 142

PARK LAKE ADARE - STAGES 2 & 3 REDBANK CREEK ROAD

ADARE THIS DOCUMENT IS CUPYRIGHT AND THE FROM EACH OF AND MUST NOT BE RETAINED, COPIED OR USED WITHOUT AUTHORITY F101-01

CANCELLING LOTS Lot 95 on CA311434 & Lot 96 on SP225226

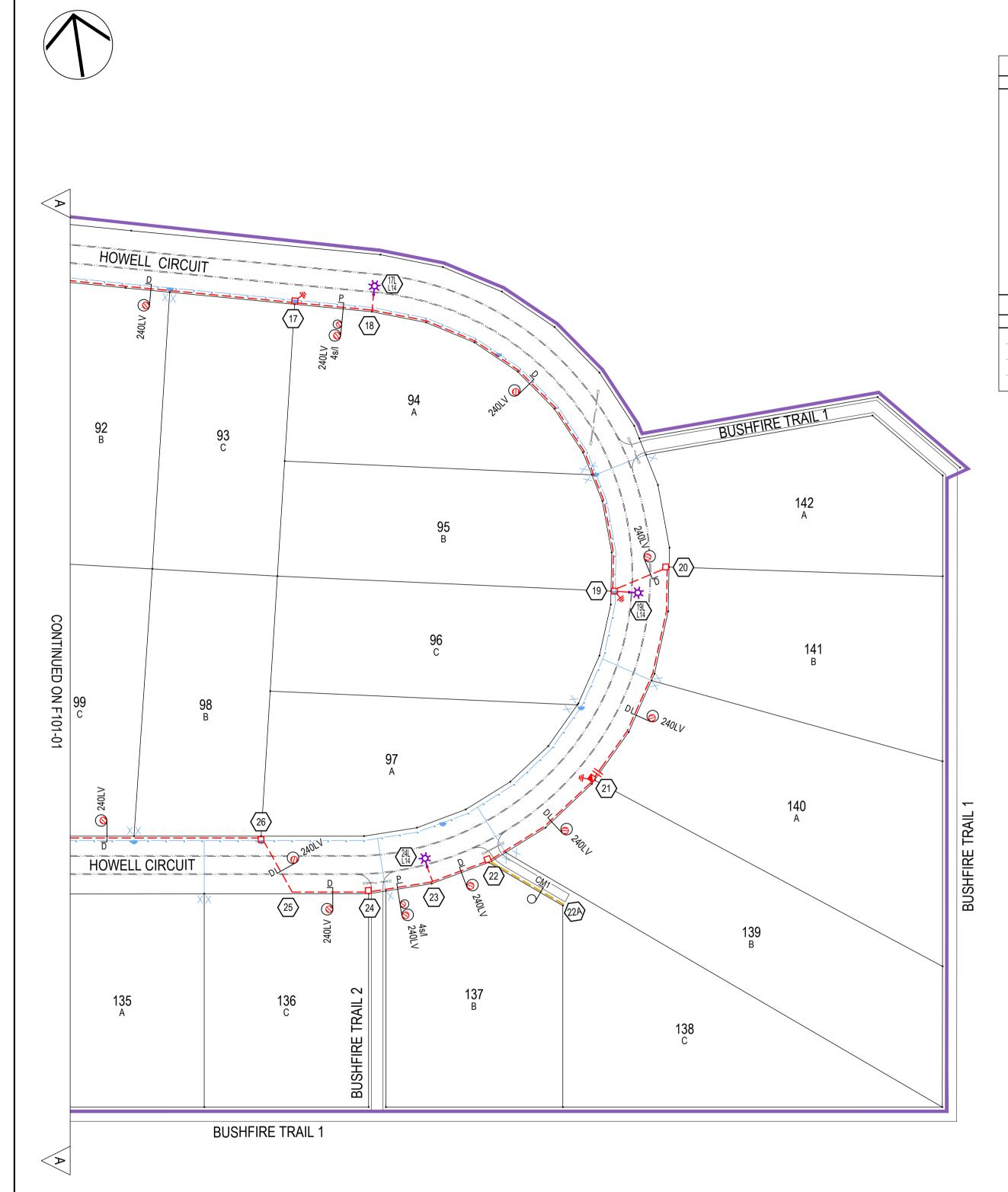
SHEET No. ENERGEX PROJECT No.

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S0107741

1 of 4

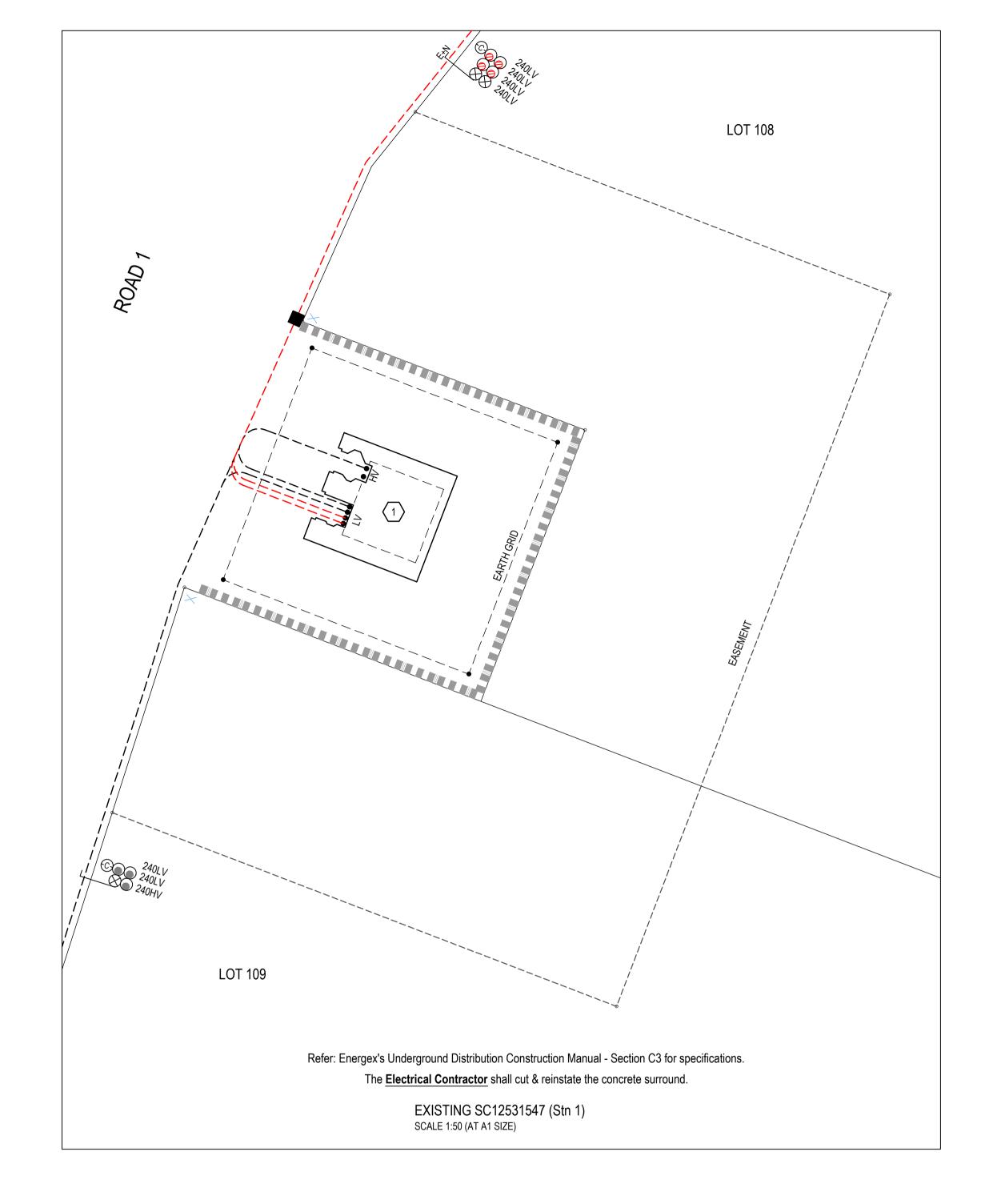
REVISION



MATERIALS SUMMARY - S0107741

UNDERGROUND							
MODEL No.	QTY	MODEL No.	QTY				
ADE	13	LVSP2-6	1				
DSLVF25	1	LVSP4-6	9				
DSLVF31	1	LVSP4-6NF	3				
LV4CMEN	10	LVSP4-6SL	5				
LV4CMENLINK	3	LVSP9-6	2				
LVPT4C240	2	LVSP9-6SL	1				
LVSP12-6	3	LVSPC2W3	1				
LVSP14-6	3	LVSPL240	1				
		SC0022544	1				
TOTAL		SCS820364	3031				
TRENCH LENGTH	1609	SCS820365	96				

STREET LIGHTING									
MODEL No.	QTY	MODEL No.	QTY						
SLEDSY01375	6	LVC24PVPV	167						
SLNOS3CI	6								
SUGSLPIL	6								



		LAN VIEW CALE 1:1000		
·20m	0	20	40	60m
	1 : 1000	(A1 - NOT RE	DUCED)	

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:
14/2/2023	Α	PRELIMINARY ISSUE	RR					
, and the second								



ELECTR 204/6	BDIVISION ICAL SERVICE Babarra Street, ford, QLD 4053
	(07) 3872 5555 (07) 3872 5566
	rr@robrus.com.au v.robrus.com.au
A.B.N	. 78 010 589 661

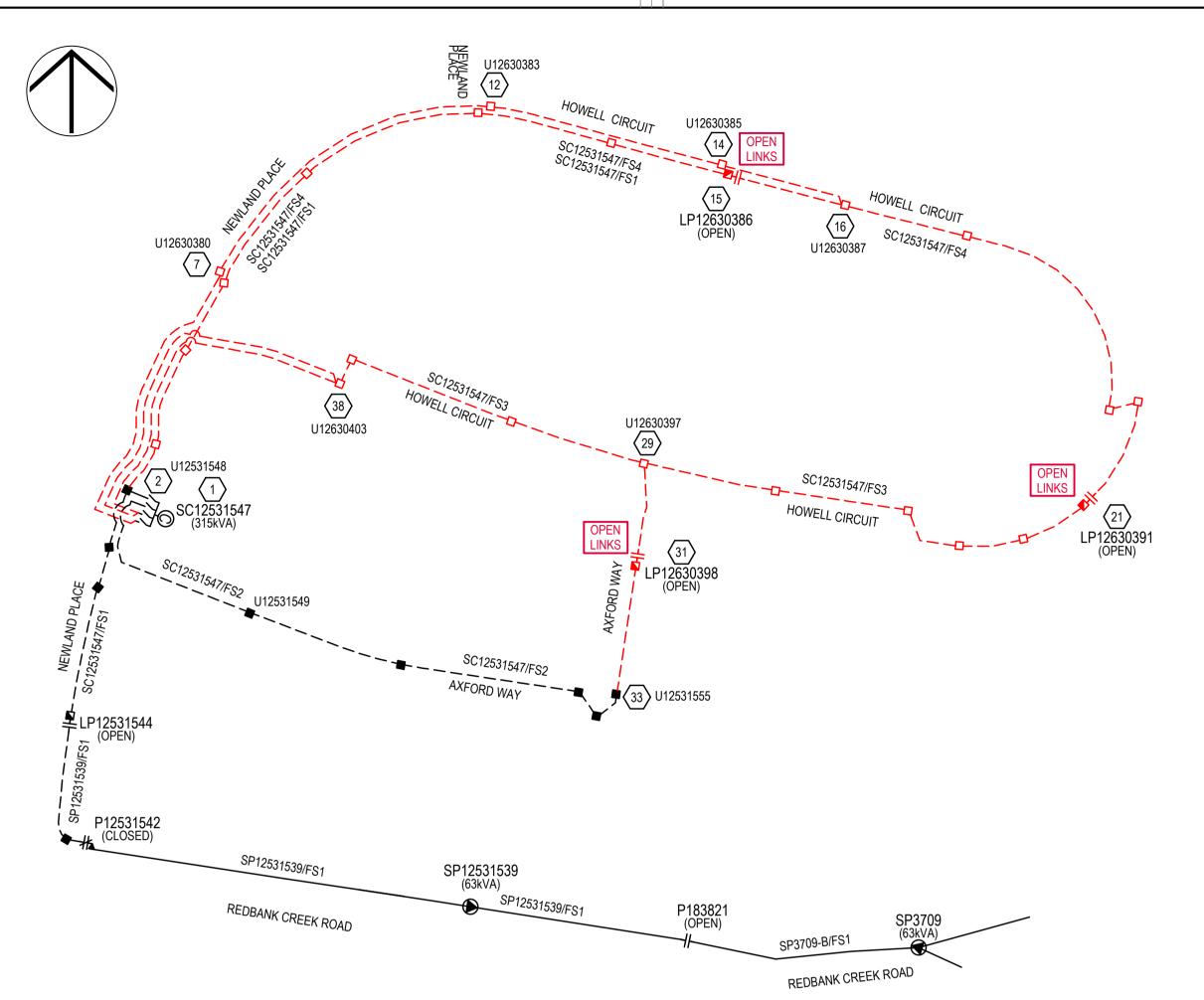
 	_		
DATE	14/2/2023	SIGNED	Phi Pimela
CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546
DESIGNED	W.Schardt	DRAWN	B.Hyland
COUNCIL REF	DA4678		
COUNCIL	LOCKYER VALLEY	DWT REV.	V53-3 20210504

ELECTRICITY RETICULATION - RESIDENTIAL	LO
CLIENT	
Parklands at Adare Pty Ltd	

CATION	
PARK LAKE ADARE - STAGES 2 & 3	
REDBANK CREEK ROAD	
NEDDAMN CINEEN NOAD	
ADARE	

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DRAWING No.	REVISIO
F101-02	A
ENERGEX PROJECT No.	SHEET No.
S0107741	2 of 2



PHASING Transformer - FS# SC12531547 - FS1 SC12531547 - FS2 SC12531547 - FS3 6 6 SC12531547 - FS4 3 3 2 SC12531547 (56) 19 19 18 SP12531539 - FS1 2 3 2 SP12531539 (7) 2 3 2

Calculation may include adjacent stages and may not equal final PMT Count.

CCT2 CCT3 CCT4 LV SWITCHBOARD LAYOUT FOR SC12531547

The contractor shall check label details against existing labels on site. Report any discrepancies immediately to the Contract Superintendent

FOLIPMENT SCHEDULE

LOCATION	STN No.	SITE I.D.	EX	REC	IN	SIZE AND DESCRIPTION	COMP ID	CU CODE	QTY	REMARKS
NEWLAND PLACE	1	SC12531547	*		* * * *	EXISTING TRANSFORMER TO REMAIN LV PARALLELLING KIT 315A LV FUSE LINK FOR LV BOARD 250A LV FUSE LINK FOR LV BOARD LV TERMINATION CONCRETE SURROUND		SC0022544 DSLVF31 DSLVF25 LVPT4C240	1 1 1 2 1	CONTRACTOR TO CUT, REMOVE AND REINSTATE
	2	U12531548	*		*	2 WAY PILLAR 2 WAY TO 3 WAY CONVERT		LVSPC2W3	1	CONVERT TO 3 WAY
	3	U12630377			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	4	U12630378			*	1 WAY PILLAR	PI1	LVSP2-6	1	1x240LV
	6	U12630379			*	2 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP4-6SL LV4CMEN	1	2x240LV, 1x4SL
	7	U12630380			*	2 WAY PILLAR - NO FUSES PILLAR MEN EARTHING	PI1	LVSP4-6NF LV4CMEN	1	2x240LV
	8	U12630381			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	10	U12630382			*	2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x4SL
HOWELL CIRCUIT	12	U12630383			*	2 WAY PILLAR - NO FUSES PILLAR MEN EARTHING	PI1	LVSP4-6NF LV4CMEN	1	2x240LV
	13	U12630384			*	2 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP4-6 LV4CMEN	1	2x240LV
	14	U12630385			*	2 WAY PILLAR - NO FUSES PILLAR MEN EARTHING	PI1	LVSP4-6NF LV4CMEN	1	2x240LV
	15	LP12630386			*	2 WAY LINK PILLAR LINK PILLAR MEN EARTHING	PI3	LVSP14-6 LV4CMENLINK	1	2x240LV
	16	U12630387			*	3 WAY PILLAR	PI1	LVSP9-6	1	3x240LV
	17	U12630388			*	2 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP4-6SL LV4CMEN	1	2x240LV, 1x4SL
	19	U12630389			*	2 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP4-6SL LV4CMEN	1	2x240LV, 1x4SL
	20	U12630390			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	21	LP12630391			*	2 WAY LINK PILLAR LINK PILLAR MEN EARTHING	PI3	LVSP14-6 LV4CMENLINK	1	2x240LV
	22	U12630392			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	24	U12630393			*	2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x4SL
	26	U12630394			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	27	U12630395			*	2 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP4-6 LV4CMEN	1	2x240LV, 1x16LV
	28	U12630396			*	CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	29	U12630397			*	3 WAY PILLAR + SL	PI1	LVSP9-6SL	1	3x240LV, 1x16LV, 1x4SL
AXFORD WAY	31	LP12630398			*	2 WAY LINK PILLAR LINK PILLAR MEN EARTHING	PI3	LVSP14-6 LV4CMENLINK	1	2x240LV
	33	U12531555	*		*	1 WAY PILLAR 240mm 4 CORE CABLE LV LUG SET		LVSPL240	1	CONVERT TO 2 WAY 1x240LV
HOWELL CIRCUIT	34	U12630399			*	CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	35	U12630400			*	2 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP4-6 LV4CMEN	1	2x240LV, 1x16LV
	36	U12630401			*	CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	37	U12630402			*	2 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP4-6 LV4CMEN	1	2x240LV
	38	U12630403			*	3 WAY PILLAR	PI1	LVSP9-6	1	3x240LV

EXISTING AND PROPOSED LV SCHEMATIC

ALL NEW LV CABLES TO BE 4c 240mm AI XLPE (UNLESS NOTED OTHERWISE)

LV SWI	TCHB	OARD	LABE	ELS	AT NEWLAND PLACE (STN 1) SC12531547
CIRCUIT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION	
TRANSF. ISOLATOR	80x35	WB	6	TRANSFORMER ISOLATOR	
1	80x35	WB	5	TO NEWLAND PLACE LP125315 SERVICES	544 / HOWELL CIRCUIT LP12630386 AND
2	80x35	WB	5	TO AXFORD WAY LP12630398	AND SERVICES
3	80x35	WB	5	TO HOWELL CIRCUIT U126304 HOWELL CIRCUIT LP12630391	03 DIRECT THEN AXFORD WAY LP12630398 / AND SERVICES
4	80x35	WB	5		87 DIRECT VIA NEWLAND PLACE U12630380 / HOWELL CIRCUIT LP12630391 / HOWELL CIRCUIT

LV LINE	(PILLA	AR LA	BELS	AT HOWELL CIRCUIT (STN 15) LP12630386
CIRCUIT DIRECTION	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
LHS	150x50	WB	5	TO NEWLAND PLACE SC12531547 / HOWELL CIRCUIT LP12630391 AND SERVICES
RHS	150x50	WB	5	TO NEWLAND PLACE SC12531547 / NEWLAND PLACE LP12531544 AND SERVICES

LHS & RHS AS VIEWED FROM ROAD TO PILLAR

LV LINK	(PILLA	AR LA	BELS	AT NEWLAND PLACE LP12531544
CIRCUIT DIRECTION	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
LHS	150x50	WB	5	TO NEWLAND PLACE SC12531547 / HOWELL CIRCUIT LP12630386 AND SERVICES
RHS	150x50	WB	5	[EXIST]

L∖	/ LINK	(PILLA	AR LA	BELS	AT AXFORD WAY (STN 31) LP12630398
1 -	IRCUIT RECTION	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
ı	LHS	150x50	WB	5	TO NEWLAND PLACE SC12531547 / HOWELL CIRCUIT LP12630391 AND SERVICES
F	RHS	150x50	WB	5	TO NEWLAND PLACE SC12531547 AND SERVICES

LHS & RHS AS VIEWED FROM ROAD TO PILLAR

LHS & RHS AS VIEWED FROM ROAD TO PILLAR

LHS & RHS AS VIEWED FROM ROAD TO PILLAR

_					
	LV LINK	(PILLA	AR LA	BELS	AT HOWELL CIRCUIT (STN 21) LP12630391
	CIRCUIT DIRECTION	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
	LHS	150x50	WB	5	TO NEWLAND PLACE SC12531547 / HOWELL CIRCUIT LP12630386 AND SERVICES
	RHS	150x50	WB	5	TO NEWLAND PLACE SC12531547 / AXFORD WAY LP12630398 AND SERVICES

LV EARTH PILLAR LABEL AT NEWLAND PLACE (STN 7) U12630380 LABEL INFORMATION OUTSIDE LV OF EARTH PILLAR 120x50 YELLOW 5 MEN EARTHING PILLAR BACKGROUND NO LV FUSES BLACK LETTERS

INSTALL LABEL EXTERNALLY ON PILLAR ABOVE THE SITE NUMBER.

LV EA	RTH PILLA	R LAI	BEL AT NEWLAND PLACE	(STN 12) I	U12630383
LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION	LABEL LOCATION	LABEL DESCRIPTION
120x50	YELLOW BACKGROUND BLACK LETTERS	5	MEN EARTHING PILLAR NO LV FUSES	OUTSIDE OF PILLAR	LV EARTH

INSTALL LABEL EXTERNALLY ON PILLAR ABOVE THE SITE NUMBER.

LV EA	RTH PILLA	R LA	BEL AT HOWELL CIRCUIT	(STN 14)	U12630385
LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION	LABEL LOCATION	LABEL DESCRIPTION
120x50	YELLOW BACKGROUND BLACK LETTERS	5	MEN EARTHING PILLAR NO LV FUSES	OUTSIDE OF PILLAR	LV EARTH

Parklands at Adare Pty Ltd

INSTALL LABEL EXTERNALLY ON PILLAR ABOVE THE SITE NUMBER.

PROPOSED COMMISSIONING PLAN

Tentative only; subject to amendment by ENERGEX outage coordinator.

SWITCHING ONE 1 x LV Switching

- Following a satisfactory site specific risk assessment by the Electrical Contractor terminate the new 240mm LV cable at the existing LIVE LV pillar at Stn 2 (U12531548).
- Carry out commissioning checks and reverse switching.
 Commission LV Circuit 1 of SC12531547.

SWITCHING TWO

- 1 x LV Switching
- Following a satisfactory site specific risk assessment by the Electrical Contractor terminate the new 240mm LV cable at the existing LIVE LV pillar at Stn 33 (U12531555).
- Carry out commissioning checks and reverse switching.
 Commission LV Circuit 2 of SC12531547.

SWITCHING THREE to FOUR 2 x LV Switching

- Following a satisfactory site specific risk assessment by the Electrical Contractor terminate each new 240mm LV cable on the spare LV switch-fuses in the LIVE LV Switchboard at Stn 1.
- Carry out commissioning checks and reverse switching.
 Commission LV Circuits 3 & 4 of SC12531547.

Where interruptions to existing consumers are required, they shall be notified in line with ENERGEX policies.

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGE
14/2/2023	Α	PRELIMINARY ISSUE	RR					



SUBDIVISION LECTRICAL SERVICES	COUNCIL	LOCKYER \
204/6 Babarra Street, Stafford, QLD 4053	COUNCIL REF	DA4678
Tel: (07) 3872 5555 Fax: (07) 3872 5566	DESIGNED	W.Schardt
Email: rr@robrus.com.au www.robrus.com.au	CHECKED	D.Lloyd RPE
A.B.N. 78 010 589 661	DATE	1/1/2/202

DESCRIPT	V53-3 20210504	DWT REV.	LOCKYER VALLEY	COUNCIL
ELE(DA4678	COUNCIL REF
_	B.Hyland	DRAWN	W.Schardt	DESIGNED
CLIENT Parkla	ROBIN RUSSELL RPEQ 1546	APPROVED	D.Lloyd RPEQ 5060	CHECKED
i aikid	Phi Pimer	SIGNED	14/2/2023	DATE
	•	•	•	•

DESCRIPTION	LOCATION
ELECTRICITY RETICULATION -	PARK LAKE ADARE - STAGES
RESIDENTIAL	REDBANK CREEK ROAD
	REDDAINN CREEN ROAD
CLIENT	ADARE

PARK LAKE ADARE - STAGES 2 & 3 REDBANK CREEK ROAD		F101-03
ADARE		ENERGEX PROJECT No.
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DRAWING No. REVISION SHEET No. 3 of 4

LIRD CONDUIT SCHEDULE - FOOTPATHS - BY ELECTRICAL CONTRACTOR

					CON	DUIT LEN	IGTH (m)				ECTION (m)			
LOCATION	STAT FROM	STATIONS FROM - TO		No.	100mm LD	No.	125mm LD	No.	EQL 100mm COMMS MD	PVC CABLE PROTECTION (m)	EXCAV /TAPE	TRENCH DETAIL	DRAW WIRE	KERB MARKERS	REMARKS
NEWLAND PLACE	2	3													EXISTING CONDUITS
	3	4			67	4	67	2	67		67	E+N	483		
	4	38			108	2					108	Е	220		
	5	6L	8	1						8	8	0	10		
	6	7			3	2	3	2	3		3	N	25		
	7	8			90	2	90	2	90		90	N	460		
	8	9			113	2	113	2	113		113	N	575		
	9	10	11	1	11	2	11	2	11		11	Z	78		
	9	10L	5	1						5	5	0	7		
	10	12			3	2					3	Е	10		
HOWELL CIRCUIT	12	13			89	2					89	Е	182		
	13	14			78	2					78	Е	160		
	14	15			4	2					4	Е	12		
	15	16			81	2					81	Е	166		
	16	17			84	1					84	D	86		
	17	18	28	1	28	1					28	Р	60		
	18	17L	6	1						6	6	0	8		
	18	19			143	1					143	D	145		
	19	19L	6	1						6	6	0	8		
	20	21			80	1					80	D	82		
	21	22			47	1					47	D	49		
	22	23			21	1					21	D	23		
	23	24	23	1	23	1					23	Р	50		
	23	24L	6	1						6	6	0	8		
	24	25			27	1					27	D	29		
	26	27			90	1					90	D	92		
	27	29			90	1					90	D	92		
	29	29L	7	1						7	7	0	9		
	29	35			93	1					93	D	95		
AXFORD WAY	30	31			40	1					40	D	42		
	31	32			44	1					44	D	46		
	32	33													EXISTING CONDUITS
HOWELL CIRCUIT	35	37			114	1					114	D	116		
TOTAL		•	100)m	2352	2m	568	m	284m	38m	1609m		3428m		

- 1. CONDUITS SHALL BE INSTALLED WITHIN A CORRIDOR 300-900mm FROM PROPERTY ALIGNMENT, IN ACCORDANCE WITH ENERGEX UNDERGROUND DISTRIBUTION CONSTRUCTION (UDC) MANUAL.
- 2. FOOTPATH CONDUITS SHALL HAVE MINIMUM 700mm COVER, REGARDLESS OF ENERGEX'S REQUIREMENTS.
- 3. CONNECT EXISTING CONDUITS, INCLUDING ROAD CROSSING CONDUITS, TO NEW FOOTPATH CONDUITS 4. TELECOMMUNICATION CONDUITS SHALL BE INSTALLED ABOVE THE ENERGEX CONDUITS IN A JOINT USE TRENCH ARRANGEMENT.

LIDD CONDITT SCHEDLILE - DOADWAYS - BY CIVIL CONTRACTOR

		Ur	KD C	OND	UIIS	ОП	EDUL	- - -	KUADV	VAYS - E	or Civ	/IL CC	אואול	AC I OI	π
					CONI	DUIT LEN	IGTH (m)			X-SECTION (m)					
LOCATION		TIONS M - TO	50mm HD	No.	100mm LD	No.	125mm LD	No.	EQL 100mm COMMS MD	PVC CABLE PROTECTION (m)	EXCAV /TAPE	TRENCH DETAIL	DRAW WIRE	KERB MARKERS	REMARKS
NEWLAND PLACE	4	5			32	2	32	2	32	32	32	N	170	2	
	5	6	21	1	21	2	21	2	21	21	21	Z	138	2	
	10	11			38	1	38	2	38	38	38	L	160	2	
HOWELL CIRCUIT	19	20			20	1				20	20	D	22	2	
	25	26			22	1				22	22	D	24	2	
	27	28			22	1				22	22	D	24	2	
	29	30			30	1				30	30	D	32	2	
	29	34			26	1				26	26	D	28	2	
	35	36			25	1				25	25	D	27	2	
	37	38			18	1				18	18	D	20	2	
TOTAL			211	m	3071	m	182	m	91m	254m	254m		645m	20	

- 1. ROAD CROSSING CONDUITS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE ENERGEX UNDERGROUND DISTRIBUTION CONSTRUCTION (UDC) MANUAL.
- 2. ROAD CROSSING CONDUITS SHALL HAVE A MINIMUM COVER OF 800mm AT ALL PLACES UNDER THE ROAD, EXCEPT UNDER STATE-CONTROLLED "MAIN" ROADS, WHERE CONDUITS SHALL HAVE A MINIMUM COVER OF 3. CONDUITS SHALL EXTEND TO WITHIN 900mm OF PROPERTY ALIGNMENT; PVC PROTECTIVE COVER STRIPS SHALL BE LAID ABOVE ALL ROAD-CROSSING CONDUITS.
- 4. REFER ENERGEX UDC MANUAL SECT. C2 FOR CROSS-SECTION DETAILS.

1. ALL LIGHTS TO BE CONNECTED ON EQL RATE 2. 2. CHECK CLEAR OF ALL SERVICES BEFORE EXCAVATING.

3. "NKL" ALIGNMENT MEASURED FROM NOMINAL KERB LINE TO CENTRE OF POLE.

5. BRASS "E" MARKERS SHALL BE INSTALLED IN KERBS DIRECTLY ABOVE ELECTRICITY CONDUITS.

UNDERGROUND CABLE SCHEDULE

LOCATION	STAT FROM	IONS 1 - TO	VOLTS	EX	REC	IN	CABLE SIZE/TYPE	CU CODE	CAE LENG NEW	ΓΗ (m)	REMARKS
NEWLAND PLACE	1	7	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	173		
	1	38	LV			*	240mm² AI 4C XLPE/PVC	SCS820364	229		PARALLEL DIRECT TO STN 38
	1	38	LV			*	240mm² AI 4C XLPE/PVC	SCS820364	229		PARALLEL DIRECT TO STN 38
	2	3	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	41		
	3	4	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	77		
	4	6	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	61		
	6	6L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	37		
	6	8	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	103		
	7	12	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	233		
	8	10	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	136		
	10	10L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	24		
	10	13	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	102		
HOWELL CIRCUIT	12	14	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	181		
	13	15	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	91		
	14	16	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	94		
	15	16	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	91		
	16	17	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	94		
	17	17L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	42		
	17	19	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	185		
	19	19L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	14		
	19	20	LV			*	240mm² AI 4C XLPE/PVC	SCS820364	27		
	20	21	LV			*	240mm² AI 4C XLPE/PVC	SCS820364	90		
	21	22	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	56		
	22	24	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	52		
	24	24L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	37		
	24	26	LV			*	240mm² AI 4C XLPE/PVC	SCS820364	57		
	26	27	LV			*	240mm² AI 4C XLPE/PVC	SCS820364	101		
	27	28	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	29		
	27	29	LV			*	240mm² AI 4C XLPE/PVC	SCS820364	101		
	29	29L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	13		
	29	31	LV			*	240mm² AI 4C XLPE/PVC	SCS820364	79		
	29	34	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	34		
	29	35	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	104		
AXFORD WAY	31	33	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	93		
HOWELL CIRCUIT	35	36	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	33		
	35	37	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	126		
	37	38	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	25		
TOTALS (Variance 5%)							240mm² Al 4C XLPE/PVC	SCS820364	3031		
, , ,							16mm² Cu 4C XLPE/PVC	SCS820365	96		
							4mm² Cu 2C PVC/PVC	LVC24PVPV	167		

1. THE CONTRACTOR SHALL MEASURE ACTUAL CABLE LENGTHS REQUIRED, AFTER INSTALLATION OF CONDUITS, THEN ORDER CABLE ACCORDINGLY.

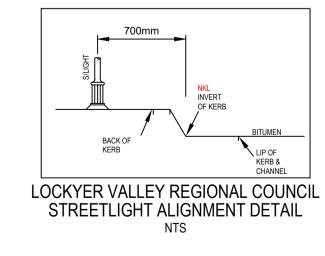
RATE 2 - STREETLIGHT SCHEDULE

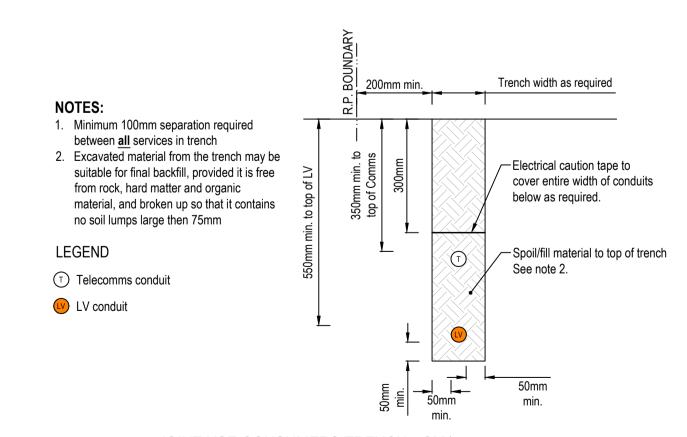
									1 (/) L		\			DOLL	•							
	CTN				POLE OR	COMPONENTS			LANTERN										OUTREACH BRA	ACKET	MOUNT	NT
LOCATION	STN No.	SITE ID (POLE No.)	COMP ID	EX (m)	REC (m)	ER (m)	POLE CODE	ALIGN (mm)	COMP ID	EX RI	COVER CUST	DATE DE-ENERG	ERI LUMIN	ECT CUST	DATE ENERG	LUMINAIRE CODE	EX (m)	REC (m)	ER CU ID	UPCAST ANGLE	HT (m)	REMARKS
NEWLAND PLACE	6L	P12630404	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	LOCK		SLEDSY01375				0°	5.1	BLACK AVENUE
	10L	P12630405	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	LOCK		SLEDSY01375				0°	5.1	BLACK AVENUE
HOWELL CIRCUIT	17L	P12630406	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	LOCK		SLEDSY01375				0°	5.1	BLACK AVENUE
	19L	P12630407	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	LOCK		SLEDSY01375				0°	5.1	BLACK AVENUE
	24L	P12630408	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	LOCK		SLEDSY01375				0°	5.1	BLACK AVENUE
	29L	P12630409	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	LOCK		SLEDSY01375				0°	5.1	BLACK AVENUE

CONSUMER CONDUIT SCHEDULE - BY CIVIL CONTRACTOR

	STATIONS			ELE	CTRICAL	. (m)		TRENCH			
LOCATION		Л - TO	32HD	40HD	50HD	63HD	No.	DETAIL	REMARKS		
HOWELL CIRCUIT	22	22A			34		1	CM1			
TOTAL					34m						

- 1. CONSUMER'S CONDUITS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF DRIVEWAYS TO REAR LOTS. 2. ELECTRICAL CONDUIT SHALL BE ORANGE, HEAVY DUTY TO AS/NZS 2053:2001, AT MINIMUM DEPTH OF 500mm.
- 3. COMMUNICATIONS CONDUIT SHALL BE WHITE, MEDIUM DUTY TO AS/NZS 1477:2017, LABELLED: "COMMUNICATIONS", MINIMUM BEND RADIUS 300mm, AT MINIMUM DEPTH OF 300mm. 4. MINIMUM CLEARANCE OF 100MM SHALL BE MAINTAINED BETWEEN ALL SERVICES.
- 5. MARK THE END OF ALL CONSUMER'S CONDUITS, BY EXTENDING THE WARNING TAPE UP TO GROUND LEVEL.
- 6. ALL CONDUITS TO BE MANDREL-TESTED, SEALED, AND HAVE DRAW ROPES INSTALLED.
- 7. CONDUITS TO EXTEND TO FRONT PROPERTY ALIGNMENT. 8. ELECTRICAL CONTRACTOR SHALL EXTEND CONDUITS THROUGH FROM BOUNDARY TO PILLAR
- 9. REFER TO TELECOMMUNICATIONS CONDUIT PLAN FOR DETAILS OF TELECOMMUNICATIONS CONDUIT TO BE INSTALLED.





JOINT USE CONSUMERS TRENCH - CM1 NOT TO SCALE

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:
14/2/2023	Α	PRELIMINARY ISSUE	RR					

AR	Robin Russell & ASSOCIATES PTY. LTD. CONSULTING ENGINEERS - ELECTRIC

SUBDIVISION ELECTRICAL SERVICES 204/6 Babarra Street, Stafford, QLD 4053								
Tel: (07) 3872 5555 Fax: (07) 3872 5566								
Email: rr@robrus.com.au www.robrus.com.au								
A.B.N. 78 010 589 661								

DATE	14/2/2023	SIGNED	Phi Romer
CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546
DESIGNED	W.Schardt	DRAWN	B.Hyland
COUNCIL REF	DA4678		
COUNCIL	LOCKYER VALLEY	DWT REV.	V53-3 20210504

4 x 100mm LD ELECTRICAL 1 x 100mm MD COMMS 2 x 125mm LD ELECTRICAL

CONDUIT BENDING RADIUS (mm)

600

-

600

300

300

50mm Ø | 100mm Ø | 125mm Ø

1830

1200

450

1200

no bends required

1830

NON-STANDARD ENERGEX

TRENCH DETAILS

TRENCH DETAIL 'E+N' (N.T.S)

LOCATION

STREET LIGHT

POLE TERMINATION

TRANSFORMER

HORIZONTAL BEND

PILLAR - MAIN CABLE

PILLAR - X-ROAD CABLE

PILLAR - STREET LIGHT CABLE

DESCRIPTION	LO
ELECTRICITY RETICULATION -	
RESIDENTIAL	
CLIENT	

Parklands at Adare Pty Ltd

LOCATION						
PARK	LAKE A	ADARE -	- STAGE	S 2	&	3
REDB	ANK CF	REEK RO	DAD			
ADARE						

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