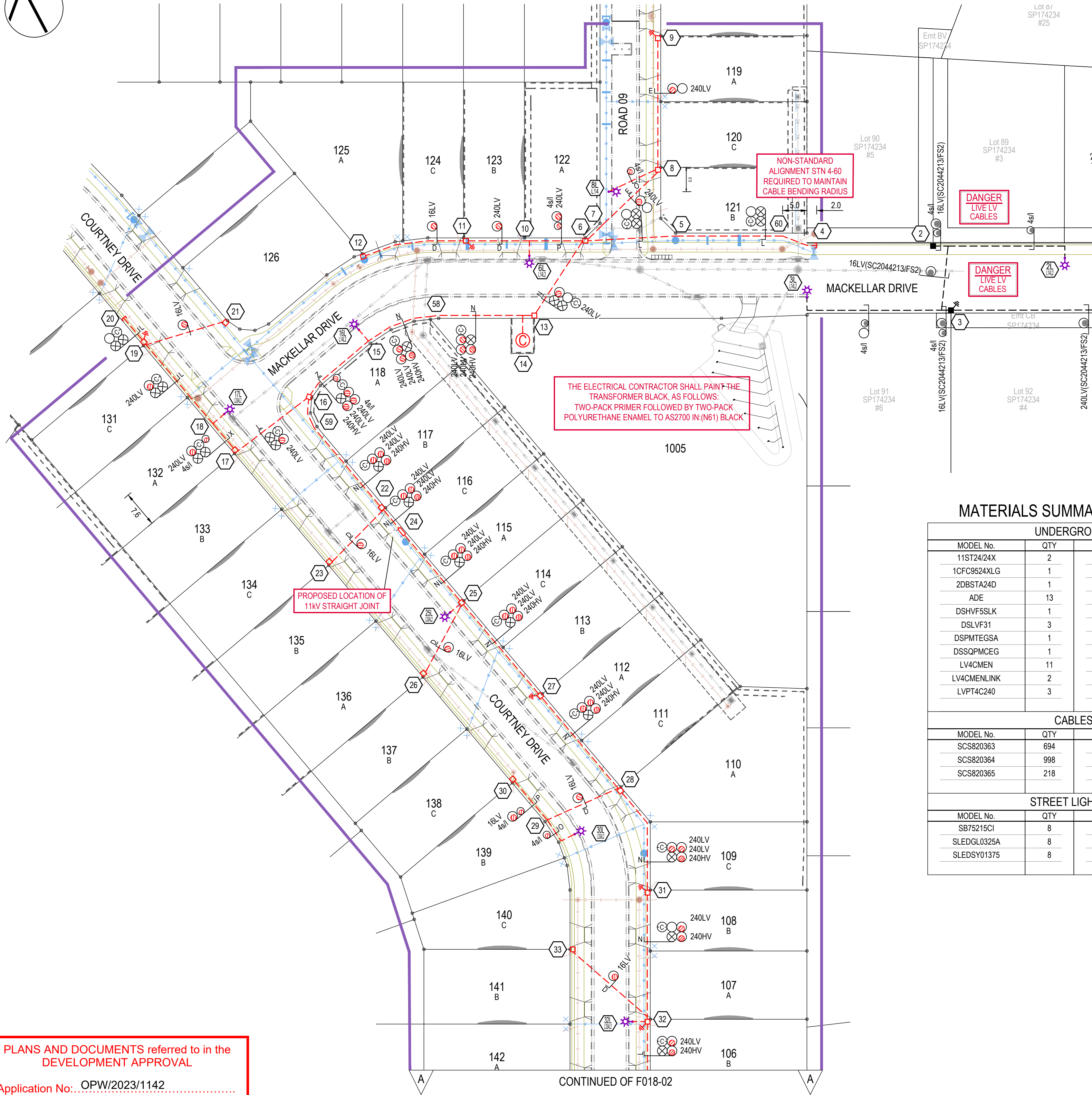
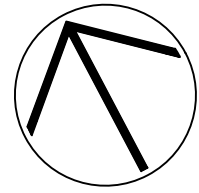




PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No.: OPW/2023/1142

Dated: 14 November 2023

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

PLAN VIEW
SCALE 1:500

1 : 500 (A1 - NOT REDUCED)

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/asptechical_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 SUPERINTENDENT.

INSTALLATION OF RRA DESIGNED TELECOMMUNICATIONS CONDUITS

TELECOMS CONDUITS AND PITS SHALL BE SUPPLIED AND INSTALLED BY THE CIVIL AND 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

TELECOMMUNICATIONS INFRASTRUCTURE	CONDUITS & PITS	to be designed by:	Robin Russell & Associates
		to be installed by:	civil & electrical contractors
		to be owned by:	
		to be provided by:	



ATTN: CIVIL CONTRACTOR

THE COVER ABOVE THE STORM WATER MAIN AND THE SEWER MAIN HAS NOT BEEN REVIEWED AT THIS TIME AS THE CIVIL DRAWINGS WERE NOT PROVIDED PRIOR TO ISSUING THE PRELIMINARY DRAWINGS.

ROCK EXCAVATION BY ELECTRICAL CONTRACTOR

The electrical contractor shall:

- excavate electricity trenches to the depth required,
- excavate street light foundations to a depth of 1500mm.

SOURCE DOCUMENTS

CREATOR	DRAWING	DWG No.	REV	DATE
MORTONS URBAN SOLUTIONS	CIVIL	X_STAGE1 Base	-	3/08/2023
ENERGEX	ELECTRICAL	MAINS PLANS	-	14/03/2023

LEGEND: ELECTRICAL

---	EXISTING UNDERGROUND CABLE / CONDUIT
---	PROPOSED UNDERGROUND CABLE / CONDUIT
---	FUTURE UNDERGROUND CABLE / CONDUIT
---	END OF CONDUIT POINT / CONDUIT CAP
---	BORED CONDUIT
12	STATION NUMBERS
⊙/⊙/⊙	PADMOUNT TRANSFORMER, EXISTING / PROPOSED / FUTURE
⊙/⊙/⊙	RING MAIN UNIT, EXISTING / PROPOSED / FUTURE
⊙/⊙/⊙	POLE TRANSFORMER, EXISTING / PROPOSED / FUTURE
⊙/⊙/⊙	CABLE FAULT INDICATOR
⊙/⊙/⊙	SERVICE PILLAR, EXISTING / PROPOSED / FUTURE
⊙/⊙/⊙	LINK PILLAR, EXISTING / PROPOSED / FUTURE
⊙/⊙/⊙	LV LINKS (OPEN), EXISTING / PROPOSED / FUTURE
⊙/⊙/⊙	LV LINKS (CLOSED), EXISTING / PROPOSED / FUTURE
---	EXISTING OVERHEAD ELECTRICITY MAINS
---	PROPOSED OVERHEAD ELECTRICITY MAINS
---	FUTURE OVERHEAD ELECTRICITY MAINS
⊙/⊙/⊙	HV POLE, EXISTING / PROPOSED / FUTURE
⊙/⊙/⊙	HV + LV 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, EXISTING / PROPOSED / FUTURE
⊙/⊙/⊙	RATE 3 SWITCHBOARD, EXISTING / PROPOSED
---	EXISTING CONSUMERS UNDERGROUND CABLE
---	PROPOSED CONSUMERS UNDERGROUND CABLE
---	TO BE RECOVERED
⊙/⊙/⊙	CABLE, EXISTING / PROPOSED
⊙	32 - 50mm HD CONDUIT
⊙	80/100mm LD CONDUIT
⊙	100mm WHITE ENERGEX COMMS. CONDUIT
⊙	125mm LD CONDUIT
△	ELECTRIC CABLE MARKER PLATE

"AS CONSTRUCTED" DOCUMENTS

The electrical contractor shall email the "as constructed" drawing, test results & closure documents to:

- contestable@energyq.com.au
- 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.

Make: _____ Model: _____
Serial No: _____ 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
MORTONS URBAN SOLUTIONS
MATT LANGMACK Ph: (07) 5571 1099
SURVEYOR
BENNETT & BENNETT (GC)
WAYNE HARRIS Ph: (07) 5631 8000

SITE INFORMATION

TOTAL NUMBER OF LOTS
46
PROPERTY DESCRIPTION
PROPOSED LOTS 101 - 126, 131 - 149, 160
CANCELLING LOTS 188 - 192 ON RP173728

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:
30/3/2023	A	PRELIMINARY ISSUE	RR					Rev B: revised to new civil base 3/8/2023. Rev C: Road 09 amended to PR5 as per GCCC RFI, PMT detail wording amended.
20/08/2023	B	REVISED CIVIL BASE	RR					
26/10/2023	C	REVISED AS PER GCCC RFI	RR					

Robin Russell
& ASSOCIATES PTY. LTD.
CONSULTING ENGINEERS - ELECTRICAL

SUBDIVISION
ELECTRICAL SERVICES
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Fax: (07) 3872 5566
Email: rr@robrus.com.au
www.robrus.com.au
A.B.N. 78 010 589 661

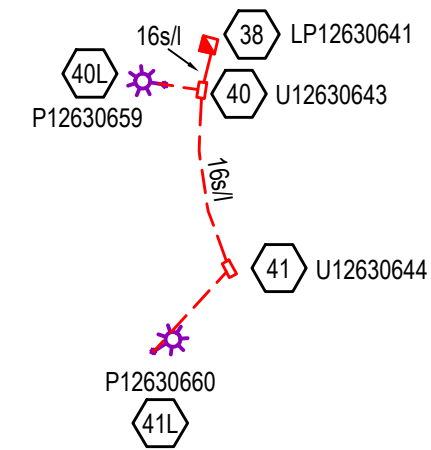
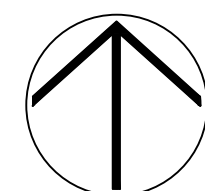
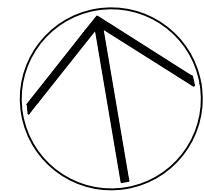
COUNCIL	GOLD COAST	DWT REV.	V53-3 20210504
COUNCIL REF	COM/2019/82		
DESIGNED	B.Hyland	DRAWN	B.Hyland
CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546
DATE	30/3/2023	SIGNED	<i>Robin Russell</i>

DESCRIPTION	ELECTRICITY RETICULATION - RESIDENTIAL
CLIENT	HB QLD PTY LTD

LOCATION
**STAGE 1
COURTNEY DRIVE
UPPER COOMERA**

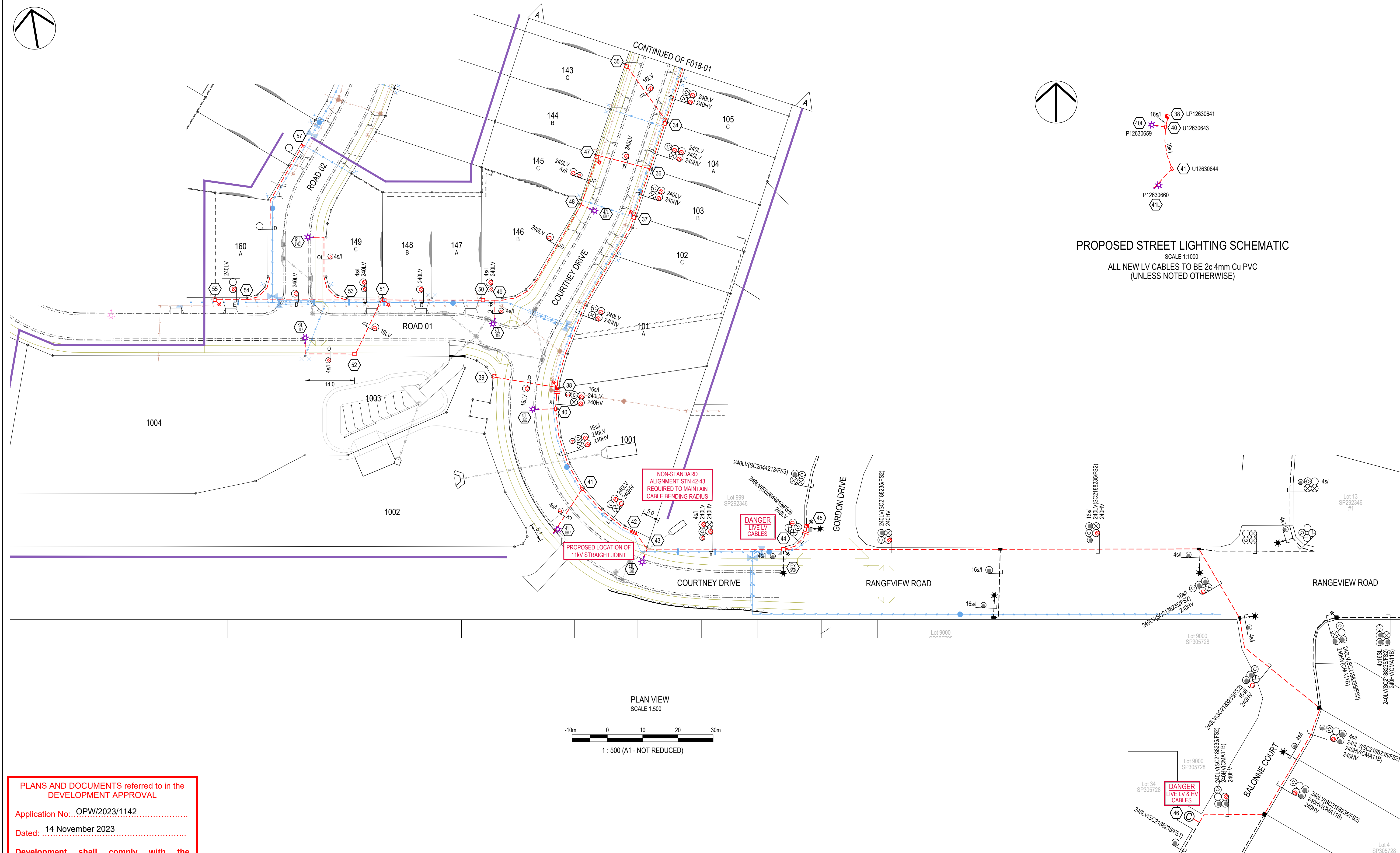
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DRAWING No.	REVISION
F018-01	C
ENERGEX PROJECT No.	SHEET No.
S0107643	1 OF 8



PROPOSED STREET LIGHTING SCHEMATIC

SCALE 1:1000
ALL NEW LV CABLES TO BE 2c 4mm Cu PVC
(UNLESS NOTED OTHERWISE)



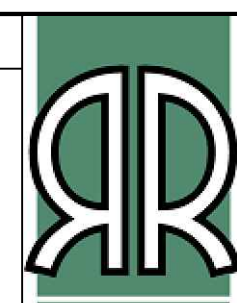
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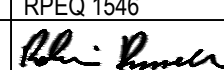
DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:
30/3/2023	A	PRELIMINARY ISSUE	RR					Rev B: revised to new civil base 3/8/2023. Rev C: Road 09 amended to PR5 as per GCCC RFI, PMT detail wording amended.
20/08/2023	B	REVISED CIVIL BASE	RR					
26/10/2023	C	REVISED AS PER GCCC RFI	RR					



Robin Russell
& ASSOCIATES PTY. LTD.
CONSULTING ENGINEERS - ELECTRICAL

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2014/8 Ballonne Street,
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Fax: (07) 3872 5566
Email: info@robinrussell.com.au
www.robinrussell.com.au
A.B.N. 78 010 589 661

COUNCIL	GOLD COAST	DWT REV.	V53-3 20210504
COUNCIL REF	COM/2019/82		
DESIGNED	B.Hyland	DRAWN	B.Hyland
CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546
DATE	30/3/2023	SIGNED	

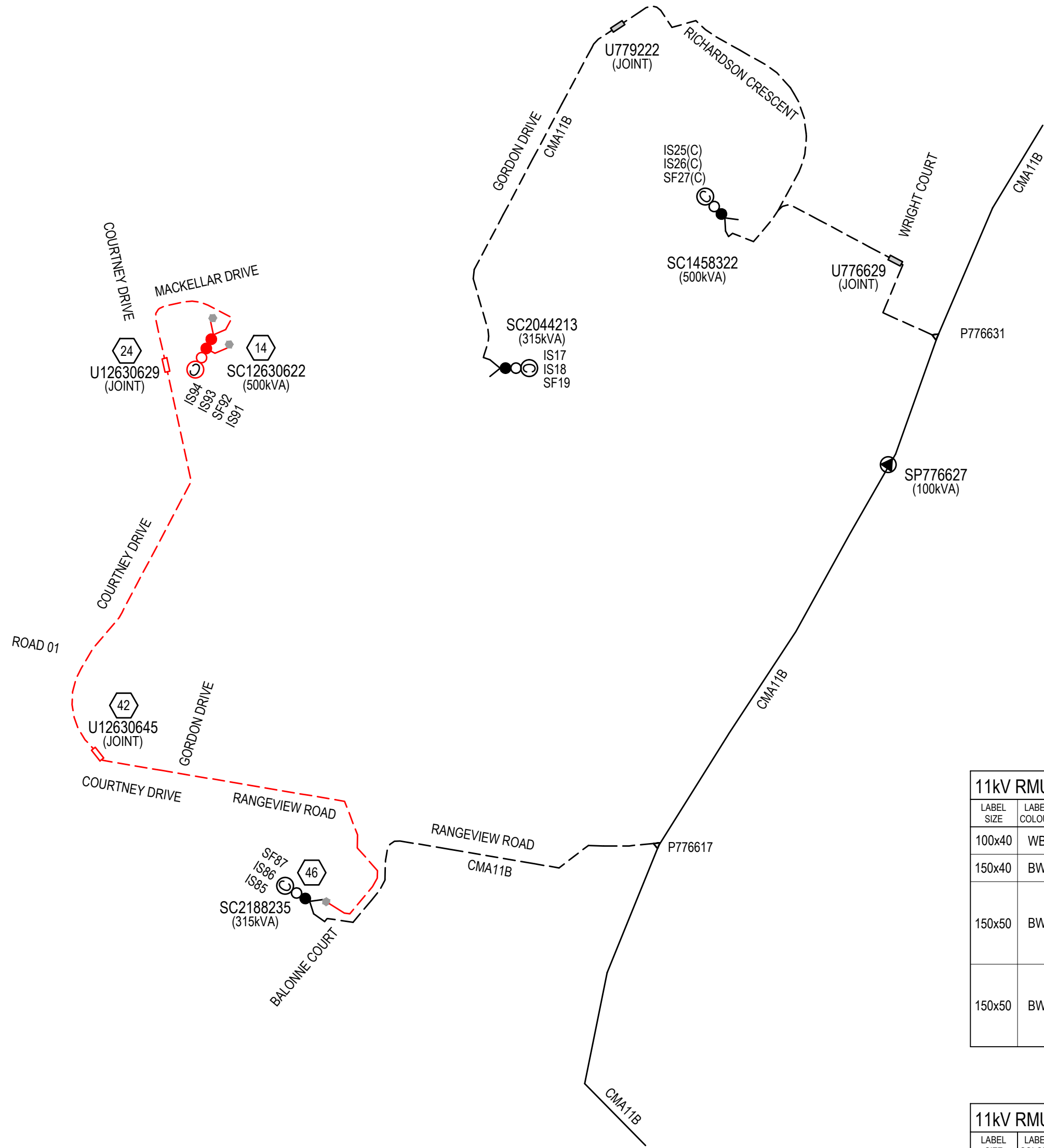
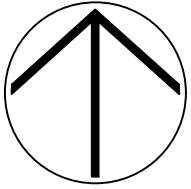
DESCRIPTION	ELECTRICITY RETICULATION - RESIDENTIAL
CLIENT	HB QLD PTY LTD

LOCATION	STAGE 1 COURTNEY DRIVE UPPER COOMERA
ENERGEX PROJECT No.	S0107643
SHEET No.	2 OF 8

DRAWING No.	F018-02	REVISION	C
ENERGEX PROJECT No.	S0107643	SHEET No.	2 OF 8

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A1



EXISTING AND PROPOSED 11kV SCHEMATIC
SCALE 1:2500
ALL NEW HV CABLES TO BE 3 x 1c 240mm AI TRIPLEX
(UNLESS NOTED OTHERWISE)

PROPOSED COMMISSIONING PLAN

Tentative only, subject to amendment by ENERGETX outage coordinator.

SWITCHING ONE

- 1 x Simple HV Switching + 1 x LV Switching
- Following a satisfactory site specific risk assessment by Electrical Contractor make new 11kV terminations at SC2188235 - IS86 (Stn 46)
- Carry out commissioning checks and reverse switching.
- Commission 11kV underground.
- Commission SC12630622.

SWITCHING TWO

- 3 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 14.
- Carry out commissioning checks and reverse switching.
- Commission each LV Circuit of SC12630622.

SWITCHING THREE

- 1 x LV Switching
- Following a satisfactory site specific risk assessment by the Electrical Contractor convert **LIVE** Pillar U2116888 to a 2 Way Link Pillar and **LIVE** Link Pillar LP2188226 to a 3 way pillar. Make new terminations at U2188226.
- Carry out commissioning checks and reverse switching.
- Commission LV Circuit 2 of SC2188235.
- Commission LV Circuit 3 of SC2044213.

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

LABELS

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

11kV RMU LABELS				AT BALONNE COURT (STN 46) SC2188235			
LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION			LABEL LOCATION	LABEL DESCRIPTION
100x40	WB	15	IS85	IS86	SF87	NEAR ISOLATOR	ISOLATOR IDENTIFICATION
150x40	BW	20				FRONT	FEEDER IDENTIFICATION
150x50	BW	10	[EXIST]	TO MACKELLAR DRIVE SC12630622 - IS93	[EXIST]	CABLE BOX	CABLE DESTINATION
150x50	BW	10	[EXIST]	TO MACKELLAR DRIVE SC12630622 - IS93	[EXIST]	INSIDE SIDE WALL	CABLE DESTINATION

11kV RMU LABELS				AT MACKELLAR DRIVE (STN 14) SC12630622			
LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION			LABEL LOCATION	LABEL DESCRIPTION
100x40	WB	15	IS91	SF92	IS93	NEAR ISOLATOR	ISOLATOR IDENTIFICATION
150x40	BW	20				FRONT	FEEDER IDENTIFICATION
150x50	BW	10	[SPARE]	TO TRANSFORMER	TO BALONNE COURT SC2188235 - IS86	CABLE BOX	CABLE DESTINATION
150x50	BW	10	[SPARE]	TO TRANSFORMER	TO BALONNE COURT SC2188235 - IS86	INSIDE SIDE WALL	CABLE DESTINATION

EQUIPMENT SCHEDULE

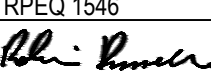
LOCATION	STN No.	SITE I.D.	EX	REC	IN	SIZE AND DESCRIPTION	COMP ID	CU CODE	QTY	REMARKS
MACKELLAR DRIVE	2	U2044252	*			CROSS-ROAD PILLAR				EXISTING TO REMAIN
	3	U2044251	*			1 WAY PILLAR				EXISTING TO REMAIN
	6	U12630616		*		3 WAY PILLAR + SL	PI1	LVSP9-6SL	1	3x240LV, 1x4SL
ROAD 09	8	U12630617		*		2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x4SL
	9	U12630618		*		1 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP2-6 LV4CMEN	1 1	1x240LV
MACKELLAR DRIVE	11	U12630619		*		1 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP2-6 LV4CMEN	1 1	1x240LV, 1x16LV
	12	U12630620		*		CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	13	U12630621		*		2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	14	SC12630622		*		PADMOUNT TRANSFORMER - 500kVA CFCC CONCRETE SURROUND COMMON EARTH GRID FOR SQUARE PMT ADDITIONAL EARTH HV FUSE SET FOR 500kVA SWITCHGEAR 240mm ² 11kV CFC TERM IN PADMOUNT HEATSHRINK CAP 25-55mm 315A LV FUSE LINK FOR LV BOARD LV TERMINATION	TR1	S2477933 DSSQPMCEG DSPMTEGSA DSHVFSLSK 1CFC9524XLG SC0006614 DSLVF31 LVPT4C240	1 1 1 1 1 3 3 3	CONTRACTOR SUPPLIED KIT CONTAINS 3x ELBOWS
	16	U12630623		*		3 WAY PILLAR + SL	PI1	LVSP9-6SL	1	3x240LV, 1x4SL
COURTNEY DRIVE	17	U12630624		*		2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x4SL
	19	U12630625		*		1 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP2-6 LV4CMEN	1 1	1x240LV, 1x16LV
	21	U12630626		*		CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	22	U12630627		*		2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV, 1x16LV
	23	U12630628		*		CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	24	U12630629		*		11kV STRAIGHT JOINT HEATSHRINK CAP 25-55mm	CJ1	11ST24/24X SC0006614	1 6	240/240 AL TRIPLEX
	25	U12630630		*		2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x16LV, 1x4SL
	26	U12630631		*		CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	27	U12630632		*		2 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP4-6 LV4CMEN	1 1	2x240LV
	28	U12630633		*		2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV, 1x16LV
	30	U12630634		*		CROSS-ROAD PILLAR + SL	PI1	LVSP12-6SL	1	1x16LV, 1x4SL
	31	U12630635		*		1 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP2-6 LV4CMEN	1 1	1x240LV
	32	U12630636		*		2 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP4-6 LV4CMEN	1 1	2x240LV, 1x16LV
	33	U12630637		*		CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	34	U12630638		*		3 WAY PILLAR	PI1	LVSP9-6	1	3x240LV, 1x16LV
	35	U12630639		*		CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	37	U12630640		*		2 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP4-6 LV4CMEN	1 1	2x240LV
	38	LP12630641		*		2 WAY LINK PILLAR + SL LINK PILLAR MEN EARTHING	PI3	LVSP14-6 LV4CMENLINK	1 1	2x240LV, 1x16LV, 1x16SL
	39	U12630642		*		CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	40	U12630643		*		U/G PIT, TYPE P4 C/W LID AND JBO (NO FUSE)		SUGSLLPIT4	1	
	41	U12630644		*		U/G PIT, TYPE P4 C/W LID AND JBO (NO FUSE)		SUGSLLPIT4	1	
RANGEVIEW ROAD	42	U12630645		*		11kV STRAIGHT JOINT HEATSHRINK CAP 25-55mm	CJ1	11ST24/24X SC0006614	1 6	240/240 AL TRIPLEX
	44	U2188226	*	*		EXISTING LINK PILLAR 3 WAY PILLAR + SL	PI1	LVSP9-6SL	-1	RECOVER LINK PILLAR 3x240LV, 2x4SL USE SPARE LV FUSE FOR SECOND STREET LIGHT
				*		PILLAR MEN EARTHING		LV4CMEN	1	
GORDON DRIVE	45	LP2116888	*	*		2 WAY PILLAR 2 WAY LINK PILLAR LINK PILLAR MEN EARTHING	PI3	LVSP14-6 LV4CMENLINK	-1 1	RECOVER EXISTING PILLAR 2x240LV
BALONNE COURT	46	SC2188235	*	*		EXISTING TRANSFORMER TO REMAIN 240mm ² 11kV CCF TERM IN PADMOUNT CONCRETE SURROUND		2DBSTA240	1 1	KIT CONTAINS 3x ELBOWS CONTRACTOR TO CUT, REMOVE AND REINSTATE
COURTNEY DRIVE	47	U12630646		*		2 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP4-6SL LV4CMEN	1 1	2x240LV, 1x4SL
ROAD 01	50	U12630647		*		2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x4SL
	51	U12630648		*		2 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP4-6SL LV4CMEN	1 1	2x240LV, 1x16LV, 1x4SL
	52	U12630649		*		CROSS-ROAD PILLAR + SL	PI1	LVSP12-6SL	1	1x16LV, 1x4SL
	55	U12630650		*		1 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP2-6 LV4CMEN	1 1	1x240LV

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Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:	 Robin Russell & ASSOCIATES PTY. LTD. CONSULTING ENGINEERS - ELECTRICAL	SUBDIVISION ELECTRICITY SERVICES 204/6 Balonne Street, Stafford, QLD 4053 Tel: (07) 3872 5555 Fax: (07) 3872 5566 Email: info@robinrussell.com.au www.robinrussell.com.au A.B.N. 78 010 589 569	COUNCIL	GOLD COAST	DWT REV.	V53-3 20210504	DESCRIPTION ELECTRICITY RETICULATION - RESIDENTIAL	LOCATION STAGE 1 COURTNEY DRIVE UPPER COOMERA	DRAWING No. F018-03	REVISION C
30/3/2023	A	PRELIMINARY ISSUE	RR					Rev B: revised to new civil base 3/8/2023. Rev C: Road 09 amended to PR5 as per GCCC RFI, PMT detail wording amended.			COUNCIL REF	COM/2019/82					ENERGETX PROJECT No. S0107643	SHEET No. 3 OF 8
20/08/2023	B	REVISED CIVIL BASE	RR								DESIGNED	B.Hyland	DRAWN	B.Hyland				
26/10/2023	C	REVIED AS PER GCCC RFI	RR								CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546	CLIENT HB QLD PTY LTD			
											DATE	30/3/2023	SIGNED			 THIS DOCUMENT IS COPYRIGHT AND THE PROPERTY OF ROBIN RUSSELL & ASSOCIATES PTY LTD AND MUST NOT BE RETAINED, COPIED OR USED WITHOUT AUTHORITY.	A1	

URD CONDUIT SCHEDULE - FOOTPATHS - BY ELECTRICAL CONTRACTOR

LOCATION	STATIONS FROM - TO		CONDUIT LENGTH (m)						X-SECTION (m)			DRAW WIRE	KERB MARKERS	REMARKS		
			50mm HD	No.	100mm LD	No.	125mm LD	No.	EOL 100mm COMMS MD	PVC CABLE PROTECTION (m)	EXCAV /TAPE				TRENCH DETAIL	
MACKELLAR DRIVE	4	60			8	1	8	2	8	8	8	L	40		NON STANDARD ALIGNMENT	
	5	60			23	1	23	2	23		23	L	100			
	6	10	13	1	13	1					13	P	30			
ROAD 09	8	9			28	2					28	E	60			
MACKELLAR DRIVE	10	6L	4	1							4	O	6			
	10	11			14	1					14	D	16			
	11	12			23	1					23	D	25			
	13	14			3	2	3	2	3		3	N	25			
	14	58			20	2	20	2	20		20	N	110			
	15	16L	4	1							4	O	6			
COURTNEY DRIVE	17	18	9	1	9	1	9	2	9		9	X	55			
	18	17L	4	1							4	O	6			
	18	19			22	1	22	2	22		22	L	96			
	19	20			8	1	8	2	8		8	L	40			
	22	25			27	2	27	2	27		27	N	145			
	25	25L	4	1							4	O	6			
	25	27			27	2	27	2	27		27	N	145			
	27	28			27	2	27	2	27		27	N	145			
	28	31			24	2	24	2	24		24	N	130			
	29	30	11	1	11	1					11	P	26			
	29	30L	9	1							9	O	11			
	31	32			28	2	28	2	28		28	N	150			
	32	32L	4	1							4	O	6			
	32	34			28	1	28	2	28		28	L	120			
	34	36			15	2	15	2	15		15	N	85			
	36	37			15	1	15	2	15		15	L	68			
	37	38			55	1	55	2	55		55	L	228			
	38	40	7	1	7	1	7	2	7		7	X	45			
	40	40L	7	1							7	O	9			
	40	41	26	1	26	1	26	2	26		26	X	140			
	41	42			20	1	20	2	20		20	L	88			
	42	43			7	1	7	2	7	7	7	L	36		NON-STANDARD ALIGNMENT	
	43	44	40	1	40	1	40	2	40		40	X	210			
43	44L	3	1							3	O	5				
RANGEVIEW ROAD	44	45													EXISTING CONDUITS	
	44	46													EXISTING CONDUITS	
COURTNEY DRIVE	47	48	16	1	16	1					16	P	36			
	48	47L	3	1							3	O	5			
	48	49			39	1					39	D	41			
ROAD 01	49	50	5	1	5	1					5	P	14			
	49	50L	6	1							6	O	8			
	50	51			30	1					30	D	32			
	51	53	11	1	11	1					11	P	26			
	52	52L	18	1							18	O	20			
	53	51L	25	1							25	O	27			
	54	55			10	2					10	E	24			
54	57			51	1					51	D	53				
COURTNEY DRIVE	59	22			24	2	24	2	24		24	N	130			
TOTAL					229m		947m		926m		463m		15m	805m		2829m

- NOTES:
- CONDUITS SHALL BE INSTALLED WITHIN A CORRIDOR 300-900mm FROM PROPERTY ALIGNMENT, IN ACCORDANCE WITH ENERGEX UNDERGROUND DISTRIBUTION CONSTRUCTION (UDC) MANUAL.
 - FOOTPATH CONDUITS SHALL HAVE MINIMUM 700mm COVER, REGARDLESS OF ENERGEX'S REQUIREMENTS.
 - CONNECT EXISTING CONDUITS, INCLUDING ROAD CROSSING CONDUITS, TO NEW FOOTPATH CONDUITS
 - TELECOMMUNICATION CONDUITS SHALL BE INSTALLED ABOVE THE ENERGEX CONDUITS IN A JOINT USE TRENCH ARRANGEMENT.
 - WHEN CONSTRUCTING A RETAINING WALL ALONG THE FRONT OF A LOT, THE CIVIL CONTRACTOR MUST INSTALL CONDUITS FOR ELECTRICAL AND TELECOMMUNICATIONS LEAD-INS. REFER TO CONDUIT UNDER RETAINING WALL DETAIL.

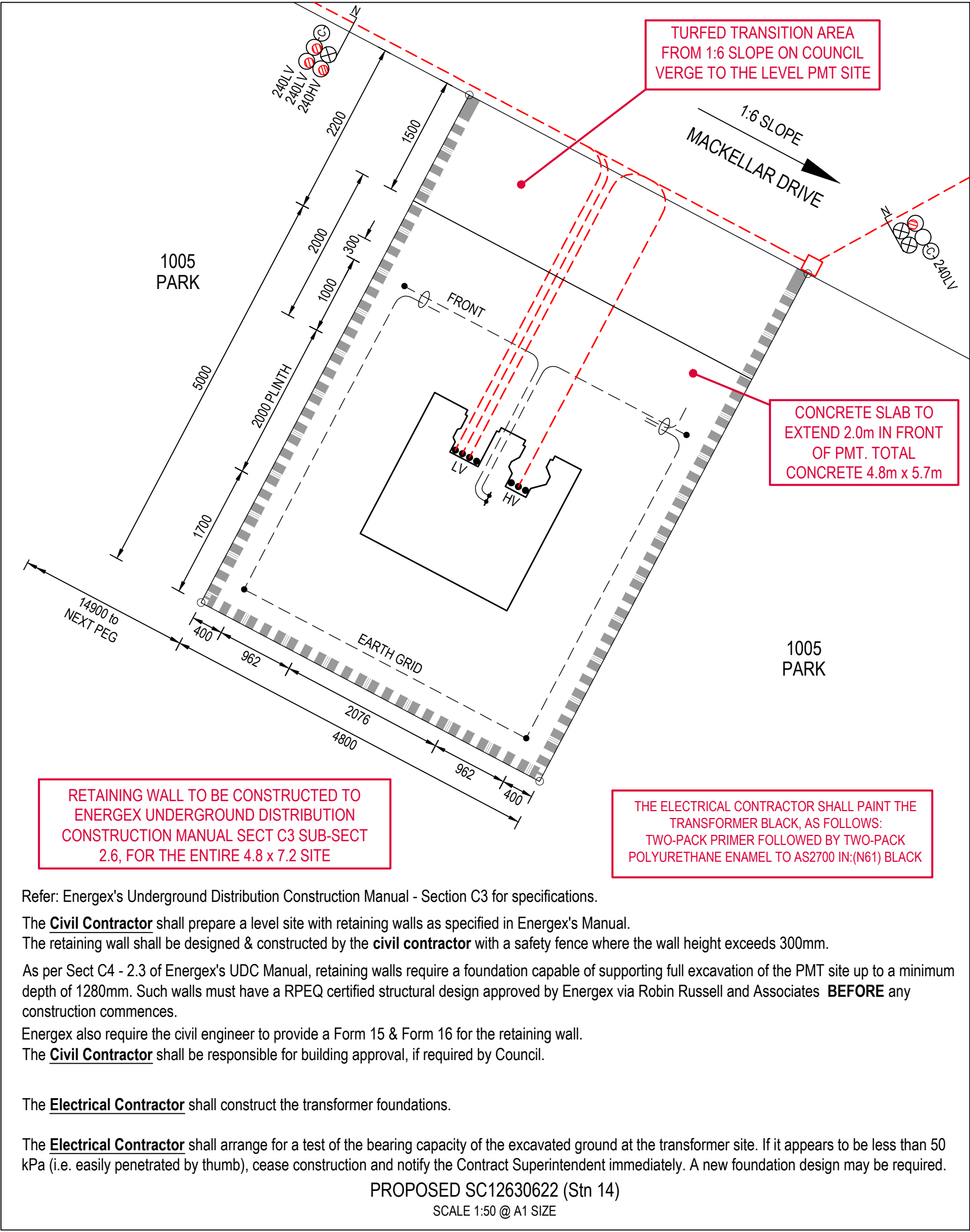
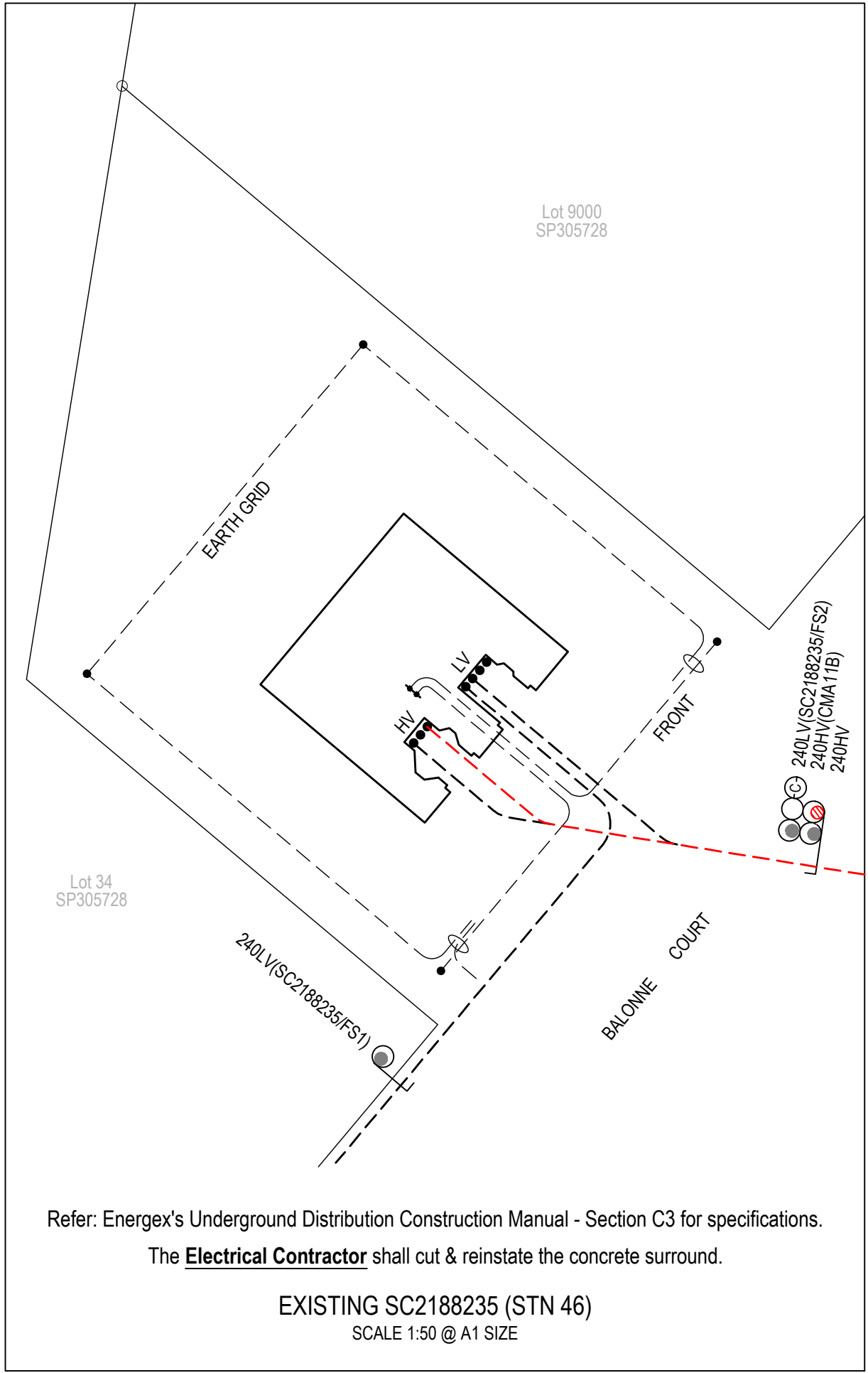
URD CONDUIT SCHEDULE - ROADWAYS - BY CIVIL CONTRACTOR

LOCATION	STATIONS FROM - TO		CONDUIT LENGTH (m)						X-SECTION (m)			DRAW WIRE	KERB MARKERS	REMARKS		
			50mm HD	No.	100mm LD	No.	125mm LD	No.	EOL 100mm COMMS MD	PVC CABLE PROTECTION (m)	EXCAV /TAPE				TRENCH DETAIL	
MACKELLAR DRIVE	5	6			20	1	20	2	20	20	20	L	88	2		
	6	13			20	2	20	2	20	20	20	N	110	2		
ROAD 09	7	8			17	2				17	17	E	38	2		
	8	8L	11	1						11	11	O	13	2		
MACKELLAR DRIVE	16	17			20	1	20	2	20	20	20	L	88	2		
COURTNEY DRIVE	19	21			18	1				18	18	D	20	2		
	22	23			17	2	17	2	17	17	17	N	95	2		
	25	26			18	1				18	18	D	20	2		
	28	29			17	1				17	17	D	19	2		
	32	33			23	1				23	23	D	25	2		
	34	35			21	1				21	21	D	23	2		
	36	47			16	1				16	16	D	18	2		
	38	39			20	1				20	20	D	22	2		
	41	41L	16	1						16	16	O	18	2		
	53	54			29	1				29	29	D	31	2		
	TOTAL				27m		310m		154m		77m		283m	283m		628m

- NOTES:
- ROAD CROSSING CONDUITS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE ENERGEX UNDERGROUND DISTRIBUTION CONSTRUCTION (UDC) MANUAL.
 - 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 1200mm.
 - CONDUITS SHALL EXTEND TO WITHIN 900mm OF PROPERTY ALIGNMENT; PVC PROTECTIVE COVER STRIPS SHALL BE LAID ABOVE ALL ROAD-CROSSING CONDUITS.
 - REFER ENERGEX UDC MANUAL SECT. C2 FOR CROSS-SECTION DETAILS.
 - BRASS "E" MARKERS SHALL BE INSTALLED IN KERBS DIRECTLY ABOVE ELECTRICITY CONDUITS.
 - CAUTION: DO NOT CONSTRUCT RETAINING WALLS, CONCRETE PATHS OR WATER SERVICES UNTIL FOOTPATH CONDUITS HAVE BEEN INSTALLED.
 - WHEN CONSTRUCTING A RETAINING WALL ALONG THE FRONT OF A LOT, THE CIVIL CONTRACTOR MUST INSTALL CONDUITS FOR ELECTRICAL AND TELECOMMUNICATIONS LEAD-INS. REFER TO CONDUIT UNDER RETAINING WALL DETAIL.

UNDERGROUND CABLE SCHEDULE

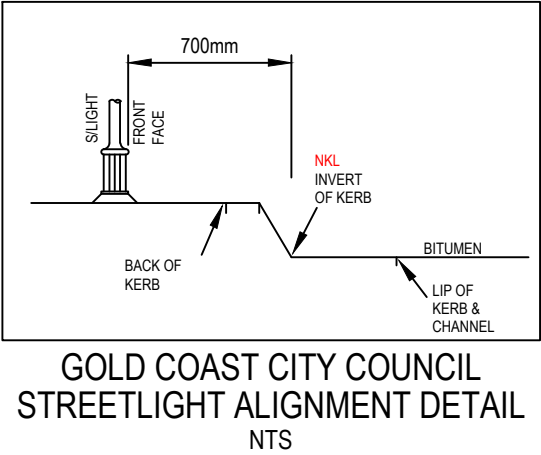
LOCATION	STATIONS FROM - TO		VOLTS	EX	REC	IN	CABLE SIZE/TYPE	CU CODE	CABLE LENGTH (m)		REMARKS	
									NEW	REC		
MACKELLAR DRIVE	6	6L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	26			
	6	8	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	28			
	6	11	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	32			
	6	13	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	26			
ROAD 09	8	8L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	21			
	8	9	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	34			
MACKELLAR DRIVE	11	12	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	29			
	13	14	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	15			
	14	16	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	65			
	14	24	11kV			*	240mm² Al 3X1C TR XLPE/SCREEN/HDPE	SCS820363	103			
	14	32	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	226			
	16	16L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	31			
	16	17	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	27			
	16	22	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	36			
	17	17L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	20			
	17	19	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	37			
COURTNEY DRIVE	19	21	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	25			
	22	23	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	23			
	22	25	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	33			
	24	42	11kV			*	240mm² Al 3X1C TR XLPE/SCREEN/HDPE	SCS820363	292			
	25	25L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	13			
	25	26	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	24			
	25	27	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	33			
	27	28	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	33			
	28	30	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	35			
	28	31	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	30			
	30	30L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	30			
	32	32L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	13			
	32	33	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	29			
	32	34	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	34			
	34	35	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	27			
	34	37	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	35			
	34	47	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	37			
	37	38	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	62			
	38	39	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	26			
	38	40	SL			*	16mm² Cu 2C PVC/PVC	LVC216PVPV	11			
	40	40L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	15			
	40	41	SL			*	16mm² Cu 2C PVC/PVC	LVC216PVPV	30			
	41	41L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	25			
	RANGEVIEW ROAD	42	46	11kV			*	240mm² Al 3X1C TR XLPE/SCREEN/HDPE	SCS820363	299		
		44	44L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	53		
		44	45	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	17		
		44	45	LV		*		240mm² Al 4C XLPE/PVC	SCS820364		0	RECOVER EXISTING
COURTNEY DRIVE	47	47L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	28			
	47	50	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	66			
ROAD 01	50	50L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	19			
	50	51	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	35			
	51	51L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	47			
	51	55	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	57			
	52	52L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	28			
TOTALS	(Variance 5%)						240mm² Al 3X1C TR XLPE/SCREEN/HDPE	SCS820363	694			
							240mm² Al 4C XLPE/PVC	SCS820364	998			
							16mm² Cu 4C XLPE/PVC	SCS820365	218			
							16mm² Cu 2C PVC/PVC	LVC216PVPV	41			
							4mm² Cu 2C PVC/PVC	LVC24PVPV	369			



RATE 2 - STREETLIGHT SCHEDULE

LOCATION	STN No.	POLE OR COMPONENTS							LANTERN										OUTREACH BRACKET					REMARKS
		SITE ID (POLE No.)	COMP ID	EX (m)	REC (m)	ER (m)	POLE CODE	ALIGN (mm)	COMP ID	EX	RECOVER LUMIN	CUST	DE-ENERG	ERECT LUMIN	CUST	DATE ENERG	LUMINAIRE CODE	EX (m)	REC (m)	ER (m)	CU ID	UPCAST ANGLE	MOUNT HT (m)	
MACKELLAR DRIVE	2L	P2044231	P01	4.5m BPM	4.5m BPM	4.5m BPM	SLNOS3CI	EX	SL1	M80DL2	M80DL2	GCCC		L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE. RECOVER EXISTING
	3L	P2044230	P01	4.5m BPM	4.5m BPM	4.5m BPM	SLNOS3CI	EX	SL1	M80DL2	M80DL2	GCCC		L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE. RECOVER EXISTING
	6L	P12630652	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1					L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE
ROAD 09	8L	P12630653	P01			4.5m BPM	SLNOS3CI	700 NKI	SL1					L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE
MACKELLAR DRIVE COURTNEY DRIVE	16L	P12630654	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1					L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE
	17L	P12630655	P01			5.5m BPM	SB75215CI	700 NKL	SL1					L33AL2	GCCC		SLEDGL0325A		1.5			5°	7.5	POWDERCOAT BLACK
	25L	P12630656	P01			5.5m BPM	SB75215CI	700 NKL	SL1					L33AL2	GCCC		SLEDGL0325A		1.5			5°	7.5	POWDERCOAT BLACK
	30L	P12630657	P01			5.5m BPM	SB75215CI	700 NKL	SL1					L33AL2	GCCC		SLEDGL0325A		1.5			5°	7.5	POWDERCOAT BLACK
	32L	P12630658	P01			5.5m BPM	SB75215CI	700 NKL	SL1					L33AL2	GCCC		SLEDGL0325A		1.5			5°	7.5	POWDERCOAT BLACK
	40L	P12630659	P01			5.5m BPM	SB75215CI	700 NKL	SL1					L33AL2	GCCC		SLEDGL0325A		1.5			5°	7.5	POWDERCOAT BLACK
	41L	P12630660	P01			5.5m BPM	SB75215CI	700 NKL	SL1					L33AL2	GCCC		SLEDGL0325A		1.5			5°	7.5	POWDERCOAT BLACK
	44L	P12630661	P01			5.5m BPM	SB75215CI	700 NKL	SL1					L33AL2	GCCC		SLEDGL0325A		1.5			5°	7.5	POWDERCOAT BLACK
	47L	P12630662	P01			5.5m BPM	SB75215CI	700 NKL	SL1					L33AL2	GCCC		SLEDGL0325A		1.5			5°	7.5	POWDERCOAT BLACK
	50L	P12630663	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1					L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE
ROAD 02	51L	P12630665	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1					L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE
ROAD 01	52L	P12630664	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1					L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE

- NOTES:
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 FACE OF POLE.
 4. POWDER COATING OF COLUMNS AND OUTREACHES TO BE A LIGHT ABRASIVE BLAST, FOLLOWED BY POWDER COATING IN : DULUX HERITAGE GREEN
 5. POWDER COATING OF COLUMNS AND OUTREACHES TO BE A LIGHT ABRASIVE BLAST, FOLLOWED BY POWDER COATING IN : DULUX WIZARD (BLUE/GREY)

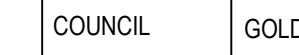
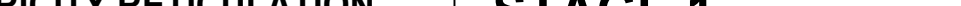


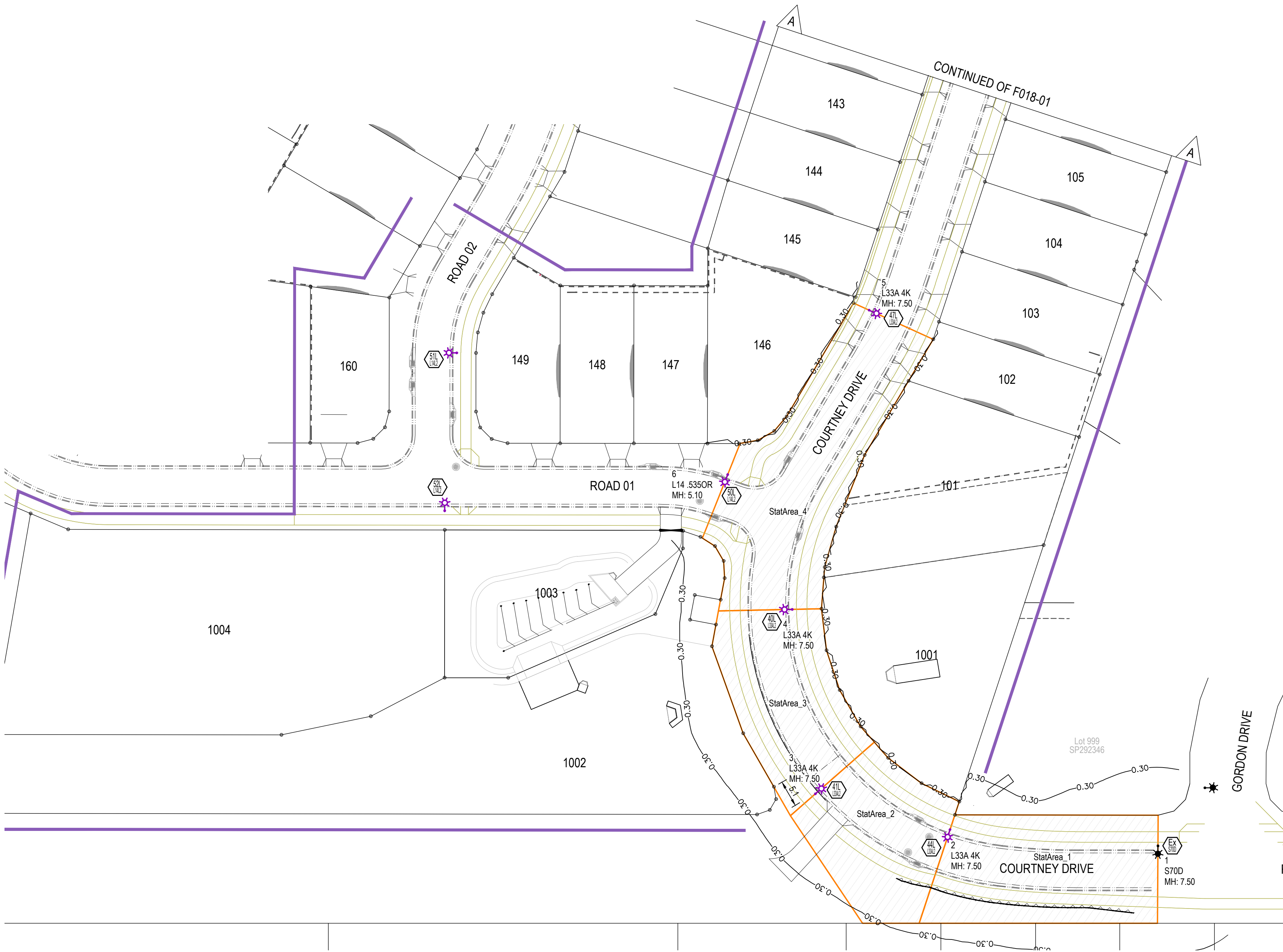
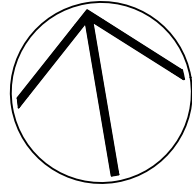
PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No.: OPW/2023/1142

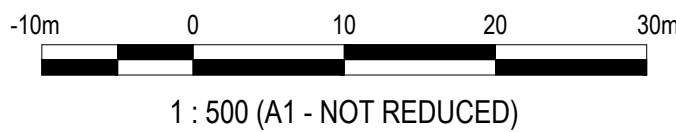
Dated: 14 November 2023

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:	 Robin Russell & ASSOCIATES PTY. LTD. CONSULTING ENGINEERS - ELECTRICAL	SUBDIVISION ELECTRICAL SERVICES 204/6 Salama Street, Stafford, QLD 4053 Tel: (07) 3872 5555 Fax: (07) 3872 5566 Email: info@robrussell.com.au www.robrussell.com.au A.B.N. 78 010 589 661	COUNCIL	GOLD COAST	DWT REV.	V53-3 20210504	DESCRIPTION ELECTRICITY RETICULATION - RESIDENTIAL	LOCATION STAGE 1 COURTNEY DRIVE UPPER COOMERA	DRAWING No. F018-06	REVISION C		
30/3/2023	A	PRELIMINARY ISSUE	RR					Rev B: revised to new civil base 3/8/2023. Rev C: Road 09 amended to PR5 as per GCCC RFI, PMT detail wording amended.		COUNCIL REF	COM/2019/82	DESIGNED	B.Hyland	DRAWN	B.Hyland	CLIENT HB QLD PTY LTD	 THIS DOCUMENT IS COPYRIGHT AND THE PROPERTY OF ROBIN RUSSELL & ASSOCIATES PTY LTD AND MUST NOT BE RETAINED, COPIED OR USED WITHOUT AUTHORITY.	ENERGEX PROJECT No. S0107643	SHEET No. 6 OF 8	
20/08/2023	B	REVISED CIVIL BASE	RR							CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546					A1		
26/10/2023	C	REVISED AS PER GCCC RFI	RR							DATE	30/3/2023	SIGNED								



PLAN VIEW
SCALE 1:500



1 : 500 (A1 - NOT REDUCED)

Luminaire Schedule							
Qty	Configuration	Description	MF	Luminaire Lumens	Luminaire Watts	Filename	Arm
1	Single	Sylvania S70D Urban Aeroscreen	0.750	4469	70	Urban S70 Aeroscreen - 95633.IES	1.5
7	Single	SYLVANIA StreetLED2 L33A 4K	0.750	3466	32.5	StreetLED2 28W 4K AERO - 180262PH.IES	1.5
4	Single	SYLVANIA Nostalgia2 T2 L14 4K	0.750	1969	13.7	AVENUE II 4K 14W V2 210729PH.ies	0.535

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Max/Avg (UE2)
StatArea_1	Illuminance	Lux	2.97	16.51	0.53	5.56
StatArea_2	Illuminance	Lux	3.40	9.45	0.23	2.78
StatArea_3	Illuminance	Lux	3.15	9.35	0.75	2.97
StatArea_4	Illuminance	Lux	2.35	9.22	0.34	3.92
StatArea_5	Illuminance	Lux	2.84	8.90	0.79	3.13
StatArea_6	Illuminance	Lux	2.33	9.04	0.49	3.88
StatArea_7	Illuminance	Lux	1.82	9.05	0.27	4.97

Luminaire Location Summary				
LumNo	Label	Orient (°)	Tilt (°)	MH (m)
1	Urban S70 Aeroscreen - 95633	258.69	5	7.50
2	SYLVANIA StreetLED2 L33A 4K	62.152	5	7.50
3	SYLVANIA StreetLED2 L33A 4K	31.589	5	7.50
4	SYLVANIA StreetLED2 L33A 4K	171.471	5	7.50
5	SYLVANIA StreetLED2 L33A 4K	325.98	5	7.50
6	SYLVANIA Nostalgia2 T2 L14 4K	238.703	0	5.10
7	SYLVANIA StreetLED2 L33A 4K	152.164	5	7.50
8	SYLVANIA StreetLED2 L33A 4K	358.934	5	7.50
9	SYLVANIA StreetLED2 L33A 4K	192.319	5	7.50
10	SYLVANIA Nostalgia2 T2 L14 4K	102.319	0	5.10
11	SYLVANIA Nostalgia2 T2 L14 4K	242.164	0	5.10
12	SYLVANIA Nostalgia2 T2 L14 4K	332.164	0	5.10

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2023/1142

Dated: 14 November 2023

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.
30/3/2023	A	PRELIMINARY ISSUE	RR				
20/08/2023	B	REVISED CIVIL BASE	RR				
26/10/2023	C	REVIED AS PER GCCC RFI	RR				

CURRENT REVISION CHANGES:
Rev B: revised to new civil base 3/8/2023. Rev
C: Road 09 amended to PR5 as per GCCC
RFI, PMT detail wording amended.



**Robin
Russell**
& ASSOCIATES PTY. LTD.

CONSULTING ENGINEERS - ELECTRICAL

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www.robruss.com.au
A.B.N. 78 010 589 661

COUNCIL	GOLD COAST	DWT REV.	V53-3 20210504
COUNCIL REF	COM/2019/82		
DESIGNED	B.Hyland	DRAWN	B.Hyland
CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546
DATE	30/3/2023	SIGNED	<i>Robin Russell</i>

DESCRIPTION	ROAD LIGHTING DESIGN
CLIENT	HB QLD PTY LTD

LOCATION	STAGE 1 COURTNEY DRIVE UPPER COOMERA
ENERGEX PROJECT No.	S0107643
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DRAWING No.	F018-08	REVISION	C
SHEET No.	8	OF	8