

LOCATE & EXTEND EXISTING CONDUITS

DANGER
LIVE LV CABLES

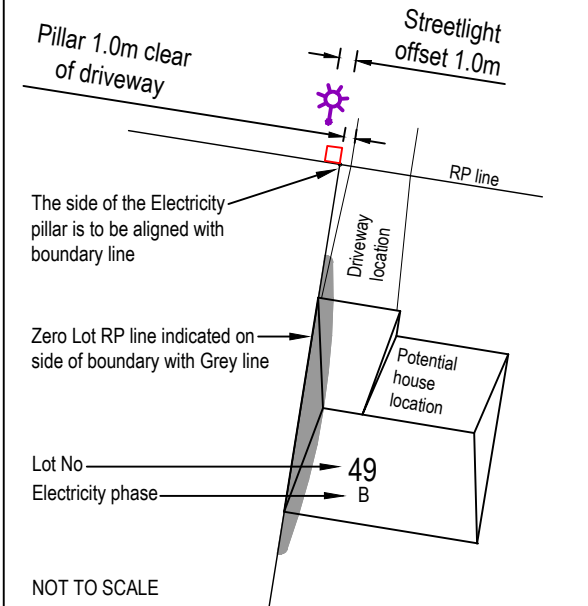
PILLARS ON ZERO LOT BOUNDARY REQUIREMENTS FOR ELECTRICAL, GAS & COMMUNICATIONS CONTRACTORS

The proposed pillar shall be offset, as indicated, at the zero lot line boundary. The side of the pillar shall be aligned with the lot boundary, to provide at least 1.0m clearance from the future driveway.

A proposed streetlight shall be offset 1.0m from the zero lot line boundary, away from the future driveway.

COMMUNICATIONS PITS
shall not clash with potential pillar exclusion zone if a pillar is offset to align with one side of a survey peg.

GAS DOMESTIC SERVICE TEE-OFFS
shall be adjusted to remain outside 600mm pillar exclusion zone if a pillar is offset to align with one side of a survey peg.



NOT TO SCALE

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			
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:		

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,

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2025/227

Dated: 26 March 2025

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

This approval includes electrical reticulation and street lighting works alone, not including any other works.

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, NBNTM, 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

ELECTRICAL CONDUITS SHALL BE SUPERVISED BY THE HOLDER OF AN E - ELECTRICAL SAFETY ACT 2002.

TRANSFORMER SITE RETAINING WALLS SHALL BE INSTALLED STRICTLY IN SEX'S SPECIFICATIONS (SEE BELOW). THEY WILL BE INSPECTED FOR ETON.

CONDUITS ARE INSTALLED DEEPER THAN USUAL (UNDER CULVERTS OR A DEPTH OF NOT MORE THAN 1200mm AT EACH END. IF UNCERTAIN, SEEK RUCTION COORDINATOR.

HALL INSTALL ENVELOPING CONDUITS UNDER RETAINING WALLS BEHIND DUTS INTO EACH LOT (ONE FOR ELECTRICITY, ONE FOR COMMUNICATIONS), PILLAR, NEAR GROUND LEVEL INSIDE THE LOT.

S IN ENERGEX'S UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL

TS

DRIVER SITES

MANUAL CAN BE DOWNLOADED FROM THE FOLLOWING ENERGEX WEB SITE: http://www.energex.com.au/technical_docs/asp/technical_documents.asp

VE REGISTERED FOR ACCESS TO THE FOLLOWING RRA WEBSITE MAY

DOWNLOAD EXTRACTS FROM ENERGEX'S MANUAL AT:

<http://www.robus.com.au>

HALL ENSURE THAT ALL CONDUITS HAVE BEEN INSTALLED BEFORE G WALLS, PATHS, DRIVEWAYS & WATER SERVICES. THE CIVIL CONTRACTOR E ELECTRICAL CONTRACTOR OF ANY 'AS CONSTRUCTED' DEPARTURES FROM

ST 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.

ATTN: CIVIL CONTRACTOR

THE COVER ABOVE THE STORM WATER MAIN AND THE SEWER MAIN HAS BEEN REVIEWED AT THE ELECTRICAL CROSSING POINTS. THE ELECTRICAL ROAD CROSSING CONDUITS ARE TO BE INSTALLED WITH 300mm (100mm MINIMUM) SEPARATION TO THE STORM WATER MAIN, 500mm (min) SEPARATION TO THE SEWER MAIN, 600mm COVER (min) ON THE FOOTPATH & 750mm COVER (min) UNDER THE ROAD.

CONFLICTS ARE TO BE RESOLVED AS FOLLOWS:

- STN's 13 to 14 - 896mm COVER ON 375mm STORM WATER MAIN. INSTALL ELECTRICAL CONDUIT UNDER STORM WATER MAIN.
- STN's 18 to 19 - 1200mm COVER ON 150mm SEWER MAIN & 876mm COVER ON 375mm STORM WATER MAIN. INSTALL ELECTRICAL CONDUIT UNDER STORM WATER MAIN & SEWER MAIN.
- STN's 25 to 26 - 802mm COVER ON 375mm STORM WATER MAIN. INSTALL ELECTRICAL CONDUIT UNDER STORM WATER MAIN.
- STN's 38 to 37L - 766mm COVER ON 600mm STORM WATER MAIN. INSTALL ELECTRICAL CONDUIT UNDER STORM WATER MAIN.
- STN's 40 to 40L - 945mm COVER ON 600mm STORM WATER MAIN. INSTALL ELECTRICAL CONDUIT UNDER STORM WATER MAIN.

WHERE THE ELECTRICAL CONDUITS ARE INSTALLED UNDER THE STORM WATER MAINS, THEY SHALL BE GRADUALLY BROUGHT BACK UP TO A MAXIMUM DEPTH OF 1.4m AT THE ENDS.

SOURCE DOCUMENTS

CREATOR	DRAWING	DWG No.	REV	DATE
MORTONS URBAN SOLUTIONS	CIVIL	X_STAGE 5	-	10/02/2025
Robin Russell & Assoc	ELECTRICAL	F018 (S0107643)	F	12/02/2025
Robin Russell & Assoc	ELECTRICAL	F019 (S0107644)	B	13/05/2024
Robin Russell & Assoc	ELECTRICAL	F020 (S0107645)	C	9/09/2024
Robin Russell & Assoc	ELECTRICAL	F021 (S0107646)	B	12/02/2025

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
- 12/12/12 PADMOUNT TRANSFORMER, EXISTING / PROPOSED / FUTURE
- 12/12/12 RING MAIN UNIT, EXISTING / PROPOSED / FUTURE
- 12/12/12 POLE TRANSFORMER, EXISTING / PROPOSED / FUTURE
- 12/12/12 CABLE FAULT INDICATOR
- 12/12/12 SERVICE PILLAR, EXISTING / PROPOSED / FUTURE
- 12/12/12 LINK PILLAR, EXISTING / PROPOSED / FUTURE
- 12/12/12 C&I PILLAR, EXISTING / PROPOSED / FUTURE
- 12/12/12 LV LINKS (OPEN), EXISTING / PROPOSED / FUTURE
- 12/12/12 LV LINKS (CLOSED), EXISTING / PROPOSED / FUTURE
- EXISTING OVERHEAD ELECTRICITY MAINS
- PROPOSED OVERHEAD ELECTRICITY MAINS
- FUTURE OVERHEAD ELECTRICITY MAINS
- 12/12/12 HV POLE, EXISTING / PROPOSED / FUTURE
- 12/12/12 HV + LV POLE, EXISTING / PROPOSED / FUTURE
- 12/12/12 LV POLE, EXISTING / PROPOSED / FUTURE
- 12/12/12 EARTH, EXISTING / PROPOSED / FUTURE
- 12/12/12 STREET LIGHT, EXISTING / PROPOSED / FUTURE
- EXISTING RATE 3 STREETLIGHT CABLE
- PROPOSED RATE 3 STREETLIGHT CABLE
- FUTURE RATE 3 STREETLIGHT CABLE
- 12/12/12 RATE 3 STREET LIGHT, EXISTING / PROPOSED / FUTURE
- 12/12/12 RATE 3 SWITCHBOARD, EXISTING / PROPOSED
- EXISTING CONSUMERS UNDERGROUND CABLE
- PROPOSED CONSUMERS UNDERGROUND CABLE
- 12/12/12 TO BE RECOVERED
- 12/12/12 CABLE, EXISTING / PROPOSED
- 12/12/12 32 - 50mm HD CONDUIT
- 12/12/12 80/100mm LD CONDUIT
- 12/12/12 100mm WHITE ENERGEX COMMS. CONDUIT
- 12/12/12 125mm LD CONDUIT
- 12/12/12 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@robus.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 ADMINISTRATOR
MICHAEL COWDROY Ph: (07) 3872 5510
CIVIL ENGINEER
MORTONS URBAN SOLUTIONS
JOHN HARRISON Ph: (07) 5571 1099
SURVEYOR
BENNETT & BENNETT (GC)
STEPHEN MAVOR Ph: (07) 5631 8000

SITE INFORMATION

TOTAL NUMBER OF LOTS
45
PROPERTY DESCRIPTION
PROPOSED LOTS 252 - 296
CANCELLING LOTS 188-192 ON RP173728

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:
26/02/2025	A	PRELIMINARY ISSUE	RR					Rev B: Cover on SW & Sewer confirmed, conduit installation amended to suit.
21/03/2025	B	STORMWATER & SEWER COVER	RR					



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

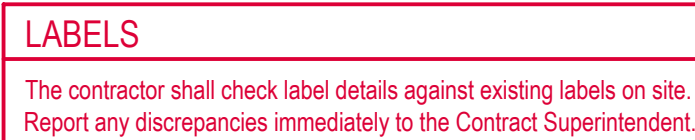
SUBDIVISION
ELECTRICAL SERVICES
20418 Salmons Street,
Stafford, QLD 4053
Tel: (07) 3872 5555
Fax: (07) 3872 5566
Email: info@robus.com.au
www.robus.com.au
A.B.N. 78 010 589 661
THIS IS A UDC GENERATED DESIGN

COUNCIL	GOLD COAST	DWT REV.	V53-3 20210504
COUNCIL REF	COM/2019/82		
DESIGNED	W.Schardt	DRAWN	B.Hyland
CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546
DATE	26/02/2025	SIGNED	

DESCRIPTION
ELECTRICITY RETICULATION - RESIDENTIAL
CLIENT
HB QLD PTY LTD

LOCATION
**STAGE 5
CALLI AVENUE
UPPER COOMERA**
THIS DOCUMENT IS COPYRIGHT AND THE PROPERTY OF ROBIN RUSSELL & ASSOCIATES PTY LTD AND MUST NOT BE RETAINED, COPIED OR USED WITHOUT AUTHORITY.

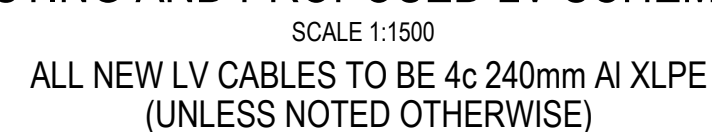
DRAWING No.	REVISION
F022-01	B
ENERGEX PROJECT No.	SHEET No.
S0107647	1 OF 6



LV LINK PILLAR LABELS				AT VALLEY CIRCUIT (STN 20) LP12713070
CIRCUIT DIRECTION	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
LHS	150x50	WB	5	TO MACKELLAR DRIVE SC12630622 / CELESTE ROAD LP12713084 AND SERVICES
RHS	150x50	WB	5	TO MACKELLAR DRIVE SC12630622 AND SERVICES

LHS & RHS AS VIEWED FROM ROAD TO PILLAR

This approval includes electrical reticulation and street lighting works alone, not including any other works.



DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:	 Robin Russell & ASSOCIATES PTY. LTD. CONSULTING ENGINEERS - ELECTRICAL A.B.N. 79 019 599 661 THIS IS A QDC GENERATED DESIGN.	SUBDIVISION ELECTRICAL SERVICES 20405 Balaara Street, Stafford, QLD 4053 Tel: (07) 3872 5555 Fax: (07) 3872 5596 Email: m@robrus.com.au www.robrus.com.au	COUNCIL	GOLD COAST	DWT REV.	V53-3 20210504	DESCRIPTION ELECTRICITY RETICULATION - RESIDENTIAL	LOCATION STAGE 5 CALLI AVENUE UPPER COOMERA	DRAWING No. F022-02	REVISION B			
26/02/2025	A	PRELIMINARY ISSUE	RR					Rev B: Cover on SW & Sewer confirmed, conduit installation amended to suit.				COUNCIL REF	COM/2019/82					ENERGEX PROJECT No.	SHEET No.		
21/03/2025	B	STORMWATER & SEWER COVER	RR									DESIGNED	W.Schardt	DRAWN	B.Hyland	CLIENT HB QLD PTY LTD					
												CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546						
												DATE	26/02/2025	SIGNED	<i>RR</i>						
															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.		A1	S0107647	2 OF 6

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.	EQL 100mm COMMS MD	PVC CABLE PROTECTION (m)	EXCAV /TAPE			
MACKELLAR DRIVE VANTAGE LANE	1	2												EXISTING CONDUITS
	2	3	13	1	13	2				13	Q	45		
	3	2L	3	1					3	3	O	5		
	3	4			17	2				17	E	38		
	4	5			30	1				30	D	32		
VALLEY CIRCUIT	5	7	13	1	13	1				13	P	30		
	7	5L	4	1					4	4	O	6		
	7	8			13	1				13	D	15		
	8	10			27	1				27	D	29		
	10	13			20	2				20	E	44		
SERENE ROAD VALLEY CIRCUIT	12	11L	3	1					3	3	O	5		
	13	14			9	1				9	D	11		
	16	16L	7	1					7	7	O	9		
	16	17			31	1				31	D	33		
SERENE ROAD	17	18			28	1				28	D	30		
	18	18L	4	1					4	4	O	6		
	18	33			17	2				17	E	38		
VALLEY CIRCUIT	20	21			22	1				22	D	24		
	20A	20L	5	1					5	5	O	7		
	22	23			27	1				27	D	29		
	22	24			26	1				26	D	28		
	24	24L	4	1					4	4	O	6		
	24	27			28	1				28	D	30		
	25	26			4	1				4	D	6		
	27	28			20	1				20	D	22		
	28	29			13	1				13	D	15		
	29	30	14	1	14	1				14	P	32		
CELESTE ROAD	29	30L	4	1						4	O	6		
	30	31			25	1				25	D	27		
	31	32			26	1				26	D	28		
	34	35	25	1	25	1				25	P	54		
	34	35L	3	1					3	3	O	5		
	39	40			18	1				18	D	20		
	40	41			25	1				25	D	27		
	42	41			13	1				13	D	15		
	42	43												EXISTING CONDUITS
	TOTAL		102m		571m						33m	541m		757m

PLANS ARE FOR THE
DEVELOPMENT OF THE
Application
Dated: 26/01/2024

Development of the
conditions of the
Decision
Scheme, L

This approach
reticulation
alone, not

- 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.

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2025/227

Dated: 26 March 2025

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

This approval includes electrical reticulation and street lighting works alone, not including any other works.

UNDERGROUND CABLE SCHEDULE

LOCATION	STATIONS FROM - TO	VOLTS	EX	REC	IN	CABLE SIZE/TYPE	CU CODE	CABLE LENGTH (m)		REMARKS
								NEW	REC	
MACKELLAR DRIVE	1 5	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	138		
VANTAGE LANE	2 2L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	22		
	2 4	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	33		
VALLEY CIRCUIT	4 32	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	20		
	5 5L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	24		
	5 6	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	21		
	5 8	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	31		
	8 9	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	21		
	8 10	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	32		
	10 11	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	24		
	10 15	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	43		
	10 16	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	40		
	11 11L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	15		
SERENE ROAD	16 16L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	15		
VALLEY CIRCUIT	16 17	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	36		
	17 18	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	33		
SERENE ROAD	18 18L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	12		
	18 20	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	32		
SERENE ROAD	18 35	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	75		
	18 37	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	56		
VALLEY CIRCUIT	20 20L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	16		
	20 21	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	27		
	21 22	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	21		
	22 23	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	32		
	22 24	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	31		
	24 24L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	12		
	24 26	LV			*	16mm² Cu 4C XLPE/PVC	SCS820365	25		
	24 27	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	33		
	27 28	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	25		
	28 30	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	30		
CELESTE ROAD	30 30L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	25		
	30 31	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	30		
	31 31L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	27		
	31 32	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	31		
	35 35L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	35		
	37 37L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	31		
	37 40	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	42		
	40 40L	SL			*	4mm² Cu 2C PVC/PVC	LVC24PVPV	21		
	40 41	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	30		
	41 43	LV			*	240mm² Al 4C XLPE/PVC	SCS820364	28		
TOTALS	(Variance 2%)					240mm² Al 4C XLPE/PVC	SCS820364	929		
						16mm² Cu 4C XLPE/PVC	SCS820365	91		
						4mm² Cu 2C PVC/PVC	LVC24PVPV	255		

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

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
VALLEY CIRCUIT	4	32			15	1				15	15	D	17	2	
	5	6			16	1				16	16	D	18	2	
	8	9			16	1				16	16	D	18	2	
SERENE ROAD	10	11			19	1				19	19	D	21	2	
VALLEY CIRCUIT	13	16			17	1				17	17	D	19	2	INSTALL UNDER STORM WATER
SERENE ROAD	18	19			21	1				21	21	D	23	2	INSTALL UNDER STORM WATER & SEWER
VALLEY CIRCUIT	21	22			16	1				16	16	D	18	2	
	24	25			16	1				16	16	D	18	2	INSTALL UNDER STORM WATER
	31	31L	19	1						19	19	O	21	2	
CELESTE ROAD	33	36			23	1				23	23	D	25	2	
	38	37L	13	1						13	13	O	15	2	INSTALL UNDER STORM WATER
	40	40L	12	1						12	12	O	14	2	INSTALL UNDER STORM WATER
TOTAL		44m		159m						203m	203m		227m	24	

- 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.

URD CONDUIT SCHEDULE - FOOTPATHS - 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			
SERENE ROAD	11	12	4	1						4	4	O	6		
VALLEY CIRCUIT	14	15			13	1					13	D	15		
SERENE ROAD	19	20A			4	1					4	D	6		
VALLEY CIRCUIT	20	20A	3	1	3	1					3	P	10		
	33	34			33	1					33	D	35		
	35	44			8	1					8	D	10		
	36	37			15	1					15	D	17		
	37	38	11	1	11	1					11	P	26		
	38	39			11	1					11	D	13		
CELESTE ROAD															
TOTAL			18m		98m						4m	102m		138m	

- 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.

CONDUIT BENDING RADIUS (mm)			
LOCATION	50mm Ø	100mm Ø	125mm Ø
HORIZONTAL BEND	600	1830	1830
PILLAR - MAIN CABLE	-	1200	-
PILLAR - X-ROAD CABLE	-	450	-
PILLAR - STREET LIGHT CABLE	600	-	-
STREET LIGHT	300	-	-
POLE TERMINATION	300	1200	1830
TRANSFORMER	no bends required		

DATE	REV	REVISION	APP.	
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EQUIPMENT SCHEDULE

LOCATION	STN No.	SITE I.D.	EX	REC	IN	SIZE AND DESCRIPTION	COMP ID	CU CODE	QTY	REMARKS
MACKELLAR DRIVE	1	SC12630622	*			EXISTING TRANSFORMER TO REMAIN 315A LV FUSE LINK FOR LV BOARD * LV TERMINATION * CONCRETE SURROUND		DSLVF31 LVPT4C240	1 1 1	CONTRACTOR TO CUT, REMOVE AND REINSTATE
VANTAGE LANE	2	U12630618	*			1 WAY PILLAR 240mm 4 CORE CABLE LV LUG SET * ADDITIONAL FUSE HOLDER - PANEL MOUNTED		LVSPL240 1043-1	1 1	CONVERT TO 2 WAY 1x240LV
VALLEY CIRCUIT	4	U12713059			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	5	U12713060			*	2 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP4-6SL LV4CMEN	1 1	2x240LV, 1x16LV, 1x4SL
	6	U12713061			*	CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	8	U12713062			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV, 1x16LV
	9	U12713063			*	CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
SERENE ROAD	10	U12713064			*	3 WAY PILLAR	PI1	LVSP9-6	1	3x240LV, 1x16LV
	11	U12713065			*	CROSS-ROAD PILLAR + SL	PI1	LVSP12-6SL	1	1x16LV, 1x4SL
	15	U12713066			*	1 WAY PILLAR PILLAR MEN EARTHING	PI1	LVSP2-6 LV4CMEN	1 1	1x240LV
SERENE ROAD	16	U12713067			*	2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x4SL
	17	U12713068			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	18	U12713069			*	4 WAY LOOP PILLAR + SL	PI1	LVSP21-6SL	1	4x240LV, 1x4SL
VALLEY CIRCUIT	20	LP12713070			*	2 WAY LINK PILLAR + SL LINK PILLAR MEN EARTHING	PI3	LVSP14-6SL LV4CMENLINK	1 1	2x240LV, 1x4SL
	21	U12713071			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	22	U12713072			*	3 WAY PILLAR	PI1	LVSP9-6	1	3x240LV
	23	U12713073			*	1 WAY PILLAR	PI1	LVSP2-6	1	1x240LV
	24	U12713074			*	2 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP4-6SL LV4CMEN	1 1	2x240LV, 1x16LV, 1x4SL
	26	U12713075			*	CROSS-ROAD PILLAR	PI1	LVSP12-6	1	1x16LV
	27	U12713076			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	28	U12713077			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	30	U12713078			*	2 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP4-6SL LV4CMEN	1 1	2x240LV, 1x4SL
	31	U12713079			*	2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x4SL
	32	U12713080			*	2 WAY PILLAR	PI1	LVSP4-6	1	2x240LV
	35	U12713081			*	1 WAY PILLAR + SL PILLAR MEN EARTHING	PI1	LVSP2-6SL LV4CMEN	1 1	1x240LV, 1x4SL
	37	U12713082			*	2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x4SL
	40	U12713083			*	2 WAY PILLAR + SL	PI1	LVSP4-6SL	1	2x240LV, 1x4SL
	41	LP12713084			*	2 WAY LINK PILLAR LINK PILLAR MEN EARTHING	PI3	LVSP14-6 LV4CMENLINK	1 1	2x240LV
	43	U12711868	*		*	1 WAY PILLAR 240mm 4 CORE CABLE LV LUG SET		LVSPL240	1	CONVERT TO 2 WAY 1x240LV

MATERIALS SUMMARY - S0107647

UNDERGROUND			
MODEL No.	QTY	MODEL No.	QTY
1043-1	1	LVSP14-6	1
ADE	7	LVSP14-6SL	1
DSLVF31	1	LVSP2-6	2
LV4CMEN	5	LVSP2-6SL	1
LV4CMENLINK	2	LVSP21-6SL	1
LVPT4C240	1	LVSP4-6	7
LVSP12-6	3	LVSP4-6SL	7
LVSP12-6SL	1	LVSP9-6	2
		LVSPL240	34
CABLES			
MODEL No.	QTY	MODEL No.	QTY
SCS820364	929	LVC24PVPV	255
SCS820365	91		
STREET LIGHTING			
MODEL No.	QTY	MODEL No.	QTY
ASSY901-2	2	SLEDSY01375	10
SB75115CI	2	SLNOS3CI	10
SLEDPH0257A	2	SUGSLPIL	12

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No:.....OPW/2025/227

Dated: 26 March 2025

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

This approval includes electrical reticulation and street lighting works alone, not including any other works.

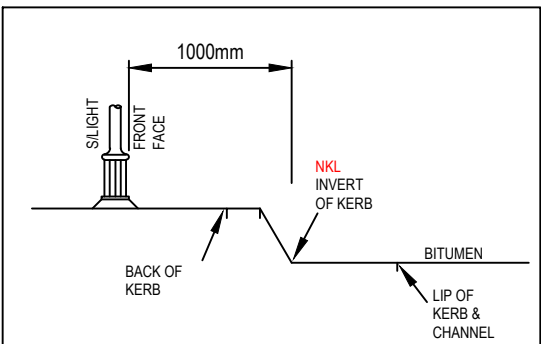
SUNDRY ITEMS SCHEDULE

SUNDRY SPEC	DESCRIPTION	QUANTITY	REMARKS
LVSPL240	240mm 4 CORE CABLE LV LUG SET	32	

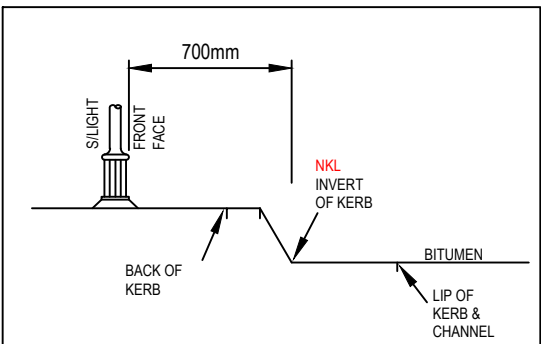
RATE 2 - STREETLIGHT SCHEDULE

LOCATION	STN No.	POLE OR COMPONENTS							LUMINAIRE										OUTREACH BRACKET					MOUNT HT (m)	REMARKS
		SITE ID (POLE No.)	COMP ID	EX (m)	REC (m)	ER (m)	POLE CODE	ALIGN (mm)	COMP ID	EX	RECOVER		DATE DE-ENERG	ERECT		DATE ENERG	LUMINAIRE CODE	EX (m)	REC (m)	ER (m)	CU ID	UPCAST ANGLE			
VANTAGE LANE	2L	P12713085	P01			4.5m BPM	SLNOS3CI	1000 EOD	SL1				L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE		
VALLEY CIRCUIT	5L	P12713086	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE		
SERENE ROAD	11L	P12713087	P01			4.5m BPM	SLNOS3CI	1000 NKL	SL1				L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE		
VALLEY CIRCUIT	16L	P12713088	P01			4.5m BPM	SLNOS3CI	1000 NKL	SL1				L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE		
SERENE ROAD	18L	P12713089	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE		
VALLEY CIRCUIT	20L	P12713090	P01			4.5m BPM	SLNOS3CI	1000 NKL	SL1				L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE		
	24L	P12713091	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE		
	30L	P12713092	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE		
	31L	P12713093	P01			4.5m BPM	SLNOS3CI	700 NKL	SL1				L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE		
VALLEY CIRCUIT	35L	P12713094	P01			4.5m BPM	SLNOS3CI	1000 NKL	SL1				L14L2	GCCC		SLEDSY01375					0°	5.1	BLACK AVENUE		
CELESTE ROAD	37L	P12713095	P01			5.5m BPM	SB75115CI	1000 NKL	SL1				L25AL2	GCCC		SLEDPH0257A + ASSY901-2		1.5			0°	7.5	LUMINAIRE (BRP391 LED36/NW 25W DWP PSD P7 ANZ 911401667606) SUPPLIED BY ELECTRICAL CONTRACTOR. POWDERCOAT BLACK.		
	40L	P12713096	P01			5.5m BPM	SB75115CI	700 NKL	SL1				L25AL2	GCCC		SLEDPH0257A + ASSY901-2		1.5			0°	7.5	LUMINAIRE (BRP391 LED36/NW 25W DWP PSD P7 ANZ 911401667606) SUPPLIED BY ELECTRICAL CONTRACTOR. POWDERCOAT BLACK.		

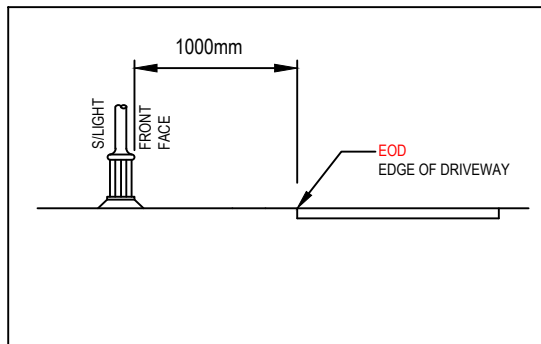
- NOTES:
- ALL LIGHTS TO BE CONNECTED ON EQL RATE 2.
 - CHECK CLEAR OF ALL SERVICES BEFORE EXCAVATING.
 - "EOD" ALIGNMENT MEASURED FROM EDGE OF DRIVEWAY TO CENTRE OF POLE.
 - "NKL" ALIGNMENT MEASURED FROM NOMINAL KERB LINE TO FRONT OF POLE.
 - POWDER COATING OF COLUMNS AND OUTREACHES TO BE A LIGHT ABRASIVE BLAST, FOLLOWED BY POWDER COATING IN : DULUX LUNAR ECLIPSE (BLACK)



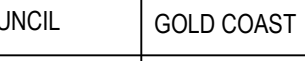
GOLD COAST CITY COUNCIL
INTERSECTION STREETLIGHT ALIGNMENT DETAIL
NTS

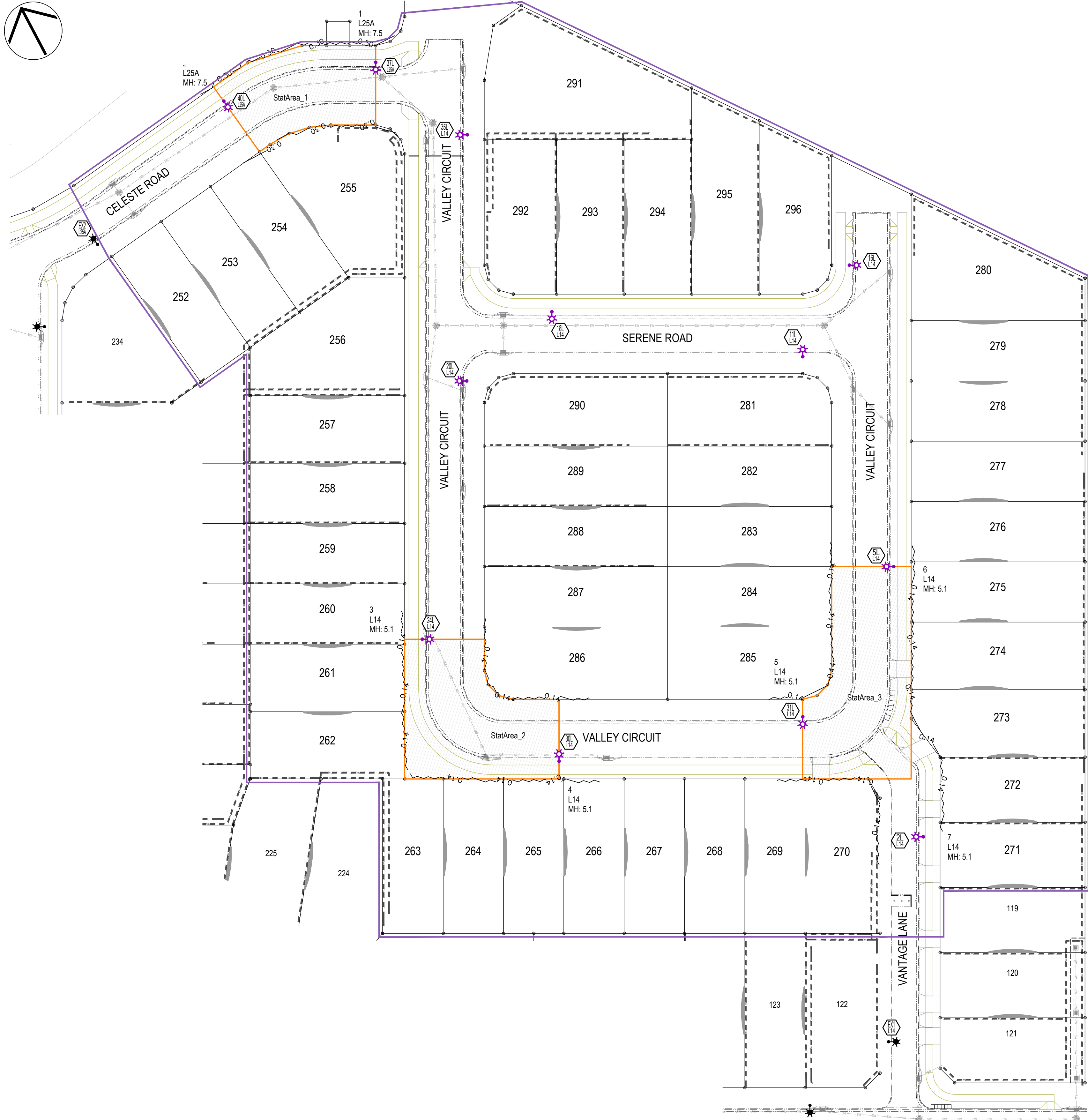
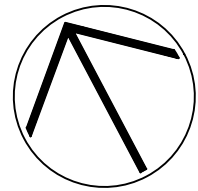


GOLD COAST CITY COUNCIL
STREETLIGHT ALIGNMENT DETAIL
NTS

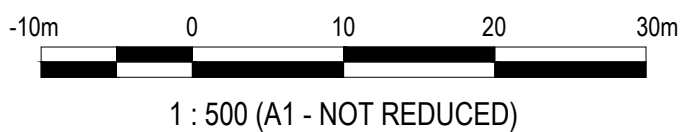


GOLD COAST CITY COUNCIL
STREETLIGHT ALIGNMENT DETAIL
NTS

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.	CURRENT REVISION CHANGES:	 Robin Russell & ASSOCIATES PTY. LTD. CONSULTING ENGINEERS - ELECTRICAL	SUBDIVISION ELECTRICAL SERVICES 20416 Baramba Street, Stafford, QLD 4053 Tel: (07) 3872 5555 Fax: (07) 3872 5566 Email: info@robusrussell.com.au www.robusrussell.com.au A.B.N. 78 010 589 661 THIS IS A UDC GENERATED DESIGN	COUNCIL	GOLD COAST	DWT REV.	V53-3 20210504	DESCRIPTION ELECTRICITY RETICULATION - RESIDENTIAL	LOCATION STAGE 5 CALLI AVENUE UPPER COOMERA	DRAWING No. F022-04	REVISION B
26/02/2025	A	PRELIMINARY ISSUE	RR				Rev B: Cover on SW & Sewer confirmed, conduit installation amended to suit.	COUNCIL REF			COM/2019/82	CLIENT HB QLD PTY LTD						
21/03/2025	B	STORMWATER & SEWER COVER	RR					DESIGNED			W.Schardt		DRAWN	B.Hyland				
											CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546	ENERGEX PROJECT No.	SHEET No.		
											DATE	26/02/2025	SIGNED	<i>RR - Russell</i>	S0107647	4 OF 6		
															A1			
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PLAN VIEW
SCALE 1:500



LEGEND:

NOTE: NOT ALL ITEMS MAY HAVE BEEN USED IN THIS DESIGN

- AS/NZS 1158 DESIGN AREA Eph
- AS/NZS 1158 DESIGN AREA 0.5 Eph
- TRAFFIC ISLAND

Isolines	
Linetype	Value (Lux)
—0.07—	0.07
—0.14—	0.14
—1.75—	1.75
—3.5—	3.5
—3.75—	3.75
—7.5—	7.5

GENERAL NOTES:

CALCULATIONS WITHIN THIS DESIGN ARE SUBJECT TO THE TOLERANCES OUTLINED IN AS/NZS 1158.2 & AS/NZS 3827.1.

ILLUMINANCE CALCULATION FIELDS USE A 1m X 1m HORIZONTAL GRID ARRAY.

SETTINGS HAVE BEEN ADJUSTED TO ENSURE ALL CALCULATIONS ARE UNDERTAKEN TO A MINIMUM OF 2 DECIMAL PLACES.

LINEAR ILLUMINANCE ARRAYS CREATED HAVE BEEN SET UP WITH A MAXIMUM SPACING OF 2.0m.

ISOLUX VALUES, WHERE SHOWN ON DIAGRAMS, HAVE BEEN ROUNDED TO 2 DECIMAL PLACES TO ENSURE CLARITY.

LUMINAIRES MAY BE MOVED BY UP TO 200mm IN EITHER DIRECTION Laterally, AND/OR AWAY FROM THE PATHWAY, WHILE REMAINING COMPLIANT.

AS PER S4.4.3.1 (1158.1.1:2022) & S4.1.1 (1158.3.1:2020), BLOCKING OBJECTS HAVE BEEN EMPLOYED IN ORDER TO EXCLUDE LIGHT THAT MAY CROSS PROPERTY BOUNDARIES.

DEFINITIONS:

OFFSET: THE HORIZONTAL DISTANCE BETWEEN THE PHOTOMETRIC CENTRE OF A LUMINAIRE AND THE RP BOUNDARY OR EDGE OF PATH.

OVERHANG: THE HORIZONTAL DISTANCE BETWEEN THE PHOTOMETRIC CENTRE OF A LUMINAIRE AND THE ADJACENT KERB OR CARRIAGEWAY EDGE.

OUTREACH: THE HORIZONTAL DISTANCE BETWEEN THE PHOTOMETRIC CENTRE OF A LUMINAIRE, TO—

(a) THE CENTRE OF THE POLE (E.G. STANDALONE STREET LIGHT POLES); OR

(b) THE FACE OF POLE FOR BRACKET ARMS (E.G. TIMBER POWER POLES).

STREET LIGHT SPACING MATRIX

STN	EX1	EX2	2L	5L	11L	16L	18L	20L	24L	29L	30L	34L	36L	39L
EX1			42.7	98.3										
EX2													66.0	37.4
2L	42.7			56.3										
5L	98.3		56.3			62.5								
11L						21.1	52.7							
16L				62.5	21.1									
18L					52.7									
20L							22.8							
24L								54.2				51.0		
29L									37.2		51.2			
30L										51.2				
34L								51.0					22.7	49.2
36L		66.0										22.7		31.4
39L		37.4										49.2	31.4	

1. ALL DISTANCES PROVIDED IN METRES (m)

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No... OPW/2025/227

Dated: 26 March 2025

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

This approval includes electrical
reticulation and street lighting works
alone, not including any other works.

PROJECT SPECIFIC DETAILS:

THIS DESIGN IS COMPLIANT WITH AND PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF:
AS/NZS 1158.3.1:2020 APPENDIX C
AS DETAILED BELOW

LIGHTING SUBCATEGORIES:
CELESTE ROAD - PR3
SERENE ROAD, VALLEY CIRCUIT, VANTAGE LANE - PR5

APPLICABLE CLAUSES:
P CATEGORY
S4.1.2 FOR DEPARTURES FROM SPACING
NOTE - 5L TO LUMINAIRE 16L = 109% OF MAXIMUM SPACING.
S4.2.2(c) FOR CURVED SECTIONS OF ROAD AND BENDS.
S4.3 T-INTERSECTIONS (e)(i)FIGURE 4.2(i)

DESIGN METHODS:
SPACING TABLES AND DESIGN RULES FOR ROADWAYS & INTERSECTIONS.
NB! ALL LUMINAIRES WITHIN THIS DESIGN ARE WITHIN THE MAXIMUM ALLOWABLE SPACING FOR THEIR CATEGORY.

ILLUMINANCE DESIGN FOR CURVES/BENDS.

ROAD SURFACE REFLECTION CHARACTERISTICS:
R3

COMPUTER PROGRAM DETAILS
Name of Computer Program - Perfect Lite v5.06 & AG32 v21.5.0.1
Source of program - Constant Energy & Lighting Analysts
Compliance - AS/NZS 1158.2:2020

NON-CONFORMANCES:
NIL

ROAD LIGHTING MAINTENANCE SCHEDULE:
THE MAINTENANCE FACTOR AND THE MAINTENANCE REGIME ARE THE RESPONSIBILITY OF THE ASSET OWNER (ENERGY QUEENSLAND).

THIS DESIGN UTILISES A MAINTENANCE FACTOR OF 0.75 BASED ON THE IP RATING OF 6X & 0.7 BASED ON THE IP RATING OF 5X AS SPECIFIED BY ENERGY QUEENSLAND.

NOTE: THIS CERTIFICATION IS ONLY APPLICABLE IF LUMINAIRES ARE REPLACED WITH EXACT EQUIVALENTS AND MAINTENANCE IS UNDERTAKEN AS SPECIFIED.

DATE	REV	REVISION	APP.	DATE	REV	REVISION	APP.
26/02/2025	A	PRELIMINARY ISSUE	RR				
21/03/2025	B	STORMWATER & SEWER COVER	RR				

CURRENT REVISION CHANGES:
Rev B: Cover on SW & Sewer confirmed,
conduit installation amended to suit.



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

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COUNCIL	GOLD COAST	DWT REV.	V53-3 20210504
COUNCIL REF	COM/2019/82		
DESIGNED	W.Schardt	DRAWN	B.Hyland
CHECKED	D.Lloyd RPEQ 5060	APPROVED	ROBIN RUSSELL RPEQ 1546
DATE	26/02/2025	SIGNED	<i>Robin Russell</i>

DESCRIPTION	ROAD LIGHTING DESIGN
CLIENT	HB QLD PTY LTD

LOCATION	STAGE 5 CALLI AVENUE UPPER COOMERA
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DRAWING No.	REVISION
F022-05	B
ENERGEX PROJECT No.	SHEET No.
S0107647	5 OF 6

