

ELECTRICAL / STREET LIGHT CERTIFICATION

THIS IS TO CERTIFY THAT THE DESIGN OF ENERGY RETICULATION IS IN ACCORDANCE WITH ENERGEX DESIGN MANUALS AND WORK CATEGORY SPECIFICATION 47.1 & 47.3 WHERE APPLICABLE.

ROAD LIGHTING CERTIFIED TO COMPLY WITH AS/NZS 1158.1.1:2022 FOR 'V' CATEGORY & AS/NZS 1158.3.1:2020 FOR 'P' CATEGORY LIGHTING FOR ROADS & PUBLIC SPACES SUPPLIED UNDER ENERGEX CONTRACT. THE LIGHTING DESIGN IS BASED UPON THE FOLLOWING MAINTENANCE SCHEDULE:

- * LED LAMP REPLACEMENT AT 88000 HOUR INTERVALS INC. CLEANING & INSPECTION OF LUMINAIRE EVERY 48 MONTHS.
- * LAMP REPLACEMENT AT 36 MONTH INTERVALS INC. CLEANING & INSPECTION OF LUMINAIRE.
- * VEGETATION TO BE KEPT CLEAR OF LUMINAIRES.
- * INSPECTION PATROLS & SPOT LAMP REPLACEMENT TO MAINTAIN SERVICE AVAILABILITY AT MIN. 85%.
- * LUMINAIRES & LAMPS TO BE REPLACED WITH EXACT EQUIVALENTS.
- * LUX PLOT SHOWN TO EXISTING LUMINAIRES OUTSIDE LIMIT OF RECOMMENDATION THAT MAY NOT COMPLY TO AS1158.3.1 2020.

STREET NAME CHRISTENSEN RD. CHRISTENSEN RD STH	LIGHTING CATEGORY V5
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MD TOWFIQUL ISLAM (RPEQ 012124)

DATE 18/11/2024

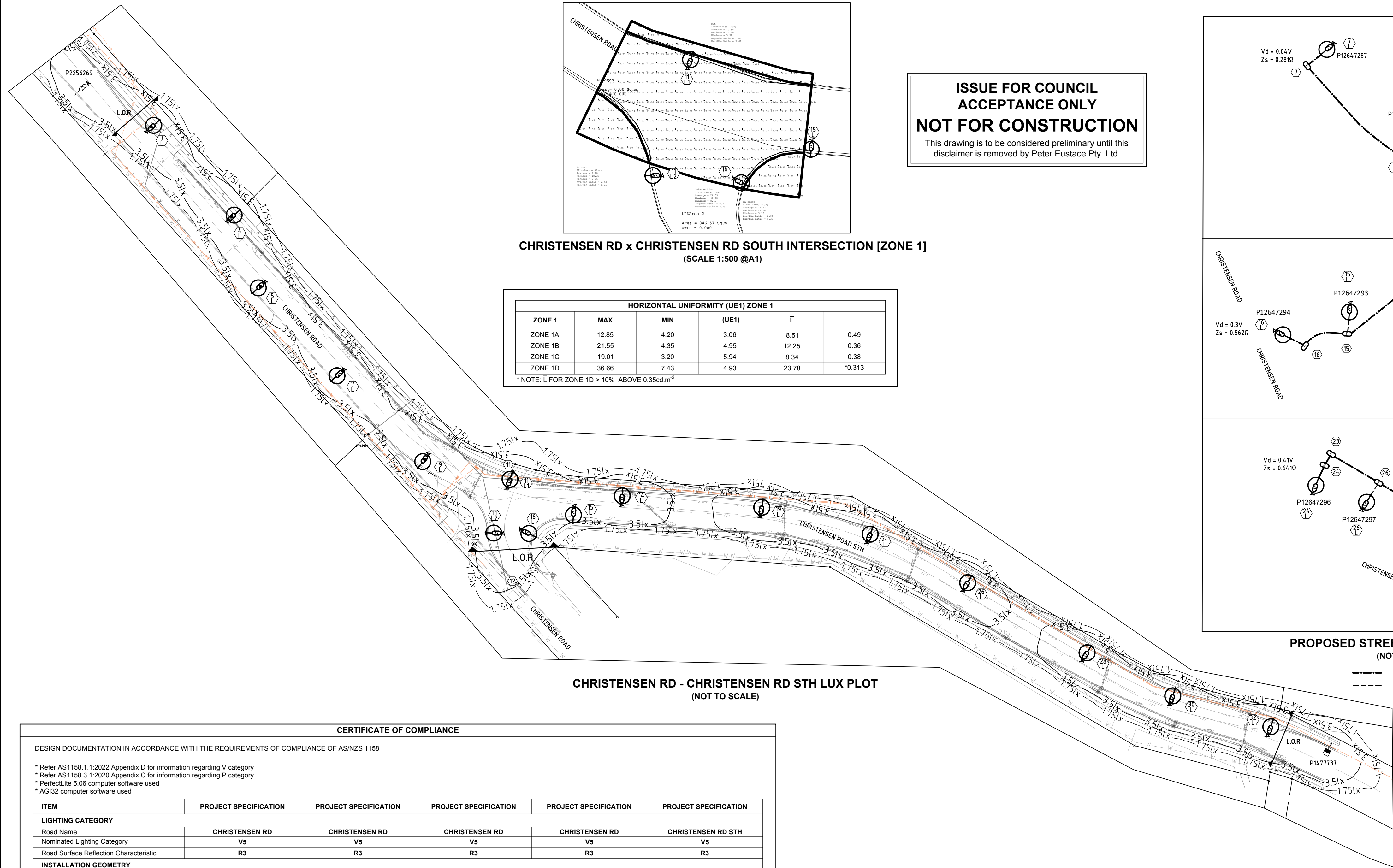
URD CIVIL WORKS SCHEDULE (ROAD CROSSINGS BY CIVIL CONTRACTOR)																								
LOCATION	STATIONS FROM-TO	CONDUIT LENGTH (m)								BENDS (<°/No)								X-SECTION (m)			DRAW WIRE	KERB MARK	REMARKS	
		50	No	100C	No	100	No	125	No	50	No	100C	No	100	No	125	No	EXCAV/ TAPE	COVER STRIP	TRENCH DETAIL				
CHRISTENSEN RD	9 - 9A	25	1															25	O	25	2			
CHRISTENSEN RD STH	14 - 15	5	1															5	O	5	2		CONNECT TO EXISTING CONDUIT INSTALL BELOW SWD	
	21 - 21A				30	1	30	2	30	2								30	N	150	2			
TOTALS																		35		155	4			

URD CIVIL WORKS SCHEDULE (ALONG FOOTPATHS BY ELECTRICAL CONTRACTOR)																								
LOCATION	STATIONS FROM-TO	CONDUIT LENGTH (m)								BENDS (<°/No)								X-SECTION (m)			DRAW WIRE	KERB MARK	REMARKS	
		50	No	100C	No	100	No	125	No	40	No	100C	No	100	No	125	No	EXCAV/ TAPE	COVER STRIP	TRENCH DETAIL				
CHRISTENSEN RD	7 - 7L	5	1															5	O	5				
	7 - 9L2	95	1															95	O	95				
CHRISTENSEN RD STH	9A - 9L1	5	1															5	O	5				
	11 - 31	355	1		355	1	355	2		355	4							350	5	SP1	2840			
	31 - 34	5	2		5	1	5	2		5	4							5		SP2	45			
	13 - 14	5	1															5	O	5				
	15 - 16	25	1															25	O	25				
	18 - 19	5	1															5	O	5				
	14 - 14L	5	1															5	O	5				
	19 - 19L	5	1															5	O	5				
	23 - 24L	5	1															5	O	5				
	26 - 26L	5	1															5	O	5				
	28 - 28L	5	1															5	O	5				
	30 - 30L	5	1															5	O	5				
	31 - 32L	5	1															5	O	5				
TOTALS		435		360		720		1440										355	75		2955			

EQUIPMENT SCHEDULE													
LOCATION	STN No	SITE I.D.	EXIST	REC	INSTALL	SIZE & DESCRIPTION	IIN	COMP ID	PLANT No.	MODEL ID	QTY	LCC	REMARKS
CHRISTENSEN RD	7				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
	9A				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
CHRISTENSEN RD STH	9B				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
	13				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	14				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	15				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	16				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
	18				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	19				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	21	U12738388			*	SUPPLY PILLAR (240-240 7F)		PI1		LVSP4-6S	1		
					*	EARTH				ASSY1011-2	1		
	21A	U12738389			*	C + I PILLAR		CI1		LVLP400CFS	1		
					*	FUSES				A/R	1		
					*	EARTH				ASSY1037-1	1		
	22	U12738390			*	11KV STRAIGHT JOINT		SJ1		11ST2424X	1		
	23				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	24				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	26				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	28				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	30				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
					*	JUNCTION BOX KIT (NO FUSE)				ASSY833-5	1		
	31				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
	32				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1		
	34	U12738388			*	SUPPLY PILLAR (240-240 7F)		PI1		LVSP4-6S	1		
					*	EARTH				ASSY1011-2	1		
					*	S/L FUSE				ASSY801-1	1		
					*	11KV STRAIGHT JOINT				ASSY1043-3	1		
	35	U12647302			*	11KV STRAIGHT JOINT		SJ1		11ST2424X	1		
	36	U1477734	*		*	SERV PILLAR		EX		EX		EX	
			*		*	EARTH		EX		EX		EX	

UNDERGROUND CABLE SCHEDULE													
LOCATION	STATIONS FROM-TO	VOLTS	EXIST	TRF	REC	INSTALL	CABLE SIZE/TYPE	MODEL ID	ROUTE LENGTH (m)	CABLE LENGTH (m)		LCC	REMARKS
										NEW	REC		
CHRISTENSEN RD	9 - 9A	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	27	30			
	9A - 7L	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	57	60			
	9A - 9L1	SL				*	4mm² 2C Cu PVC/PVC	LVC24PVPV	2	5			
CHRISTENSEN RD STH	9A - 9L2	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	47	50			
	11 - 22	11kV				*	240mm² 3 x 1C Al XLPE TRIPLEX	11AT240XSH	157	160			
	33 - 35	11kV	*		*	*	240mm² 3 x 1C Al XLPE TRIPLEX	11AT240XSH	202	205			
	35 - 37	11kV	*	*	*	*	240mm² 3 x 1C Al XLPE TRIPLEX	11AT240XSH	205	10	15		
	11 - 21	LV				*	240mm² 4C Al XLPE	LVA4240XPV	167	170			
	21 - 21A	LV				*	240mm² 4C Al XLPE	LVA4240XPV	27	30			
	21 - 34	LV				*	240mm² 4C Al XLPE	LVA4240XPV	202	205			
	33 - 34	LV	*		*	*	240mm² 4C Al XLPE	LVA4240XPV	12		15		
	34 - 36	LV	*	*	*	*	240mm² 4C Al XLPE	LVA4240XPV	110				
	13 - 14	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	2	5			
	13 - 18	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	62	65			
	14 - 14L	SL				*	4mm² 2C Cu PVC/PVC	LVC24PVPV	2	5			
	14 - 15	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	22	25			
	15 - 15L	SL	*		*	*	4mm² 2C Cu PVC/PVC	LVC24PVPV	22		25		
	15 - 17L	SL				*	4mm² 2C Cu PVC/PVC	LVC24PVPV	22	25			
	18 - 19L	SL				*	4mm² 2C Cu PVC/PVC	LVC24PVPV	2	5			
	18 - 21	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	37	40			
	21 - 23	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	12	15			
	23 - 24	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	2	5			
	23 - 26	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	42	45			
	23 - 24L	SL				*	4mm² 2C Cu PVC/PVC	LVC24PVPV	2	5			
	26 - 26L	SL				*	4mm² 2C Cu PVC/PVC	LVC24PVPV	2	5			
	26 - 28	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	57	60			
	28 - 28L	SL				*	4mm² 2C Cu PVC/PVC	LVC24PVPV	2	5			
	28 - 30	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	37	40			
	30 - 30L	SL				*	4mm² 2C Cu PVC/PVC	LVC24PVPV	2	5			
	30 - 34	SL				*	16mm² 2C Cu PVC/PVC	LVC216PVPV	47	50			
	34 - 32L	SL				*	4mm² 2C Cu PVC/PVC	LVC24PVPV	7	10			

OVERHEAD WORKS SCHEDULE																						
LOCATION	STN No.	SITE I.D (POLE No)	POLES											CONSTRUCTIONS (Note: KBS is top KB to top KB)								REMARKS
			EDT ANG	EDT kN	SST Kn	LST Kn	EXISTING	RECOVER	ERECT	SINK	FOOT	COMP ID	ALIGN	LCC	EXISTING	RECOVER	ERECT	No	KBS	ANG	LCC	
CHRISTENSEN RD	1	X55926					P12.5				EX	EX			ABS 11SC LVS			EX EX EX				
	2	X833232					P12.5/12-22				EX	EX			11SC 11UGT LVP LVUGT			EX EX EX EX				
	3	P114053					P12.5/12-22	P12.5/12-22			EX	EX			11P 11T LVP S3B/W LVABC	11P 11T LVP S3B/W LVABC		EX EX EX EX EX				DISCONNECTED.
	3A	P12647301							P14/12-22	*2.2	MDCF		3m RP				11P 11T LVP LVABCT LVABCT SLWPBMA4	1 1 1 1 1 1				*NEW POLES TO BE INSTALLED AT FSL
	4	P12647285							P14/12-22	*2.2	MDCF		3m RP				11P LVP SLWPBMA4	1 1 1				
	6	P114054					P12.5/8-14				EX	EX			11P LVP		SOHSL225BW	EX EX 1				
	7	SP763958					P14/12-22C				EX	EX			11TD 11T PT LVS LV MONITOR			EX EX EX EX EX				
	8	X114055					P12.5/8-14				EX	EX			ABS 11SC LVSC LV SERVICE			EX EX EX EX				
	9	12647288							P14/12-22	*2.2	MDCF		1m BoK				11SC LVS SC15568D LVBR16/AOH SLGT16/2	1 1 1 1 1 1	150			*NEW POLES TO BE INSTALLED AT FSL
10	P115092					P14/12-22	P14/12-22			EX	EX			11SC 11T LVT LVT SLWPBMA4	11SC 11T LVT LVT SLWPBMA4		EX EX EX EX EX					
CHRISTENSEN RD STH	11	P12647290							P14/12-22	*2.7	MDCF		1m BoK				11P LVP LVT SWPBM3	1 1 1 1				*NEW POLES TO BE INSTALLED AT FSL. POLE SUNK ADDITIONAL 0.5m DUE TO UG TERMINATIONS.
	12	P383750					P12.5/12-22	P12.5/12-22			EX	EX			11TD			EX				
	17	P115093					P12.5/8-14	P12.5/8-14			EX	EX			11P LVP SLUGT04/2	11P LVP SLUGT04/2		EX EX EX				
	20	P115094					P12.5/8-14				EX	EX			11P LVP SLWPBMA4			EX EX EX				
	25	P115100					P12.5/12-22	P12.5/12-22			EX	EX			11P LVP SLWPBMA4	11P LVP SLWPBMA4		EX EX EX				
	27	P115095					P12.5/8-14	P12.5/8-14			EX	EX			11P LVP SLWPBMA4	11P LVP SLWPBMA4		EX EX EX				
	29	P115096					P12.5/12-22	P12.5/12-22			EX	EX			11P LVP SLWPBMA4	11P LVP SLWPBMA4		EX EX EX				
33	P115097					P14/12-22				EX	EX			11T 11TRIPXUGT LVT LVT240/HV CGEC	11T 11TRIPXUGT LVT LVT240/HV CGEC		EX EX EX EX					

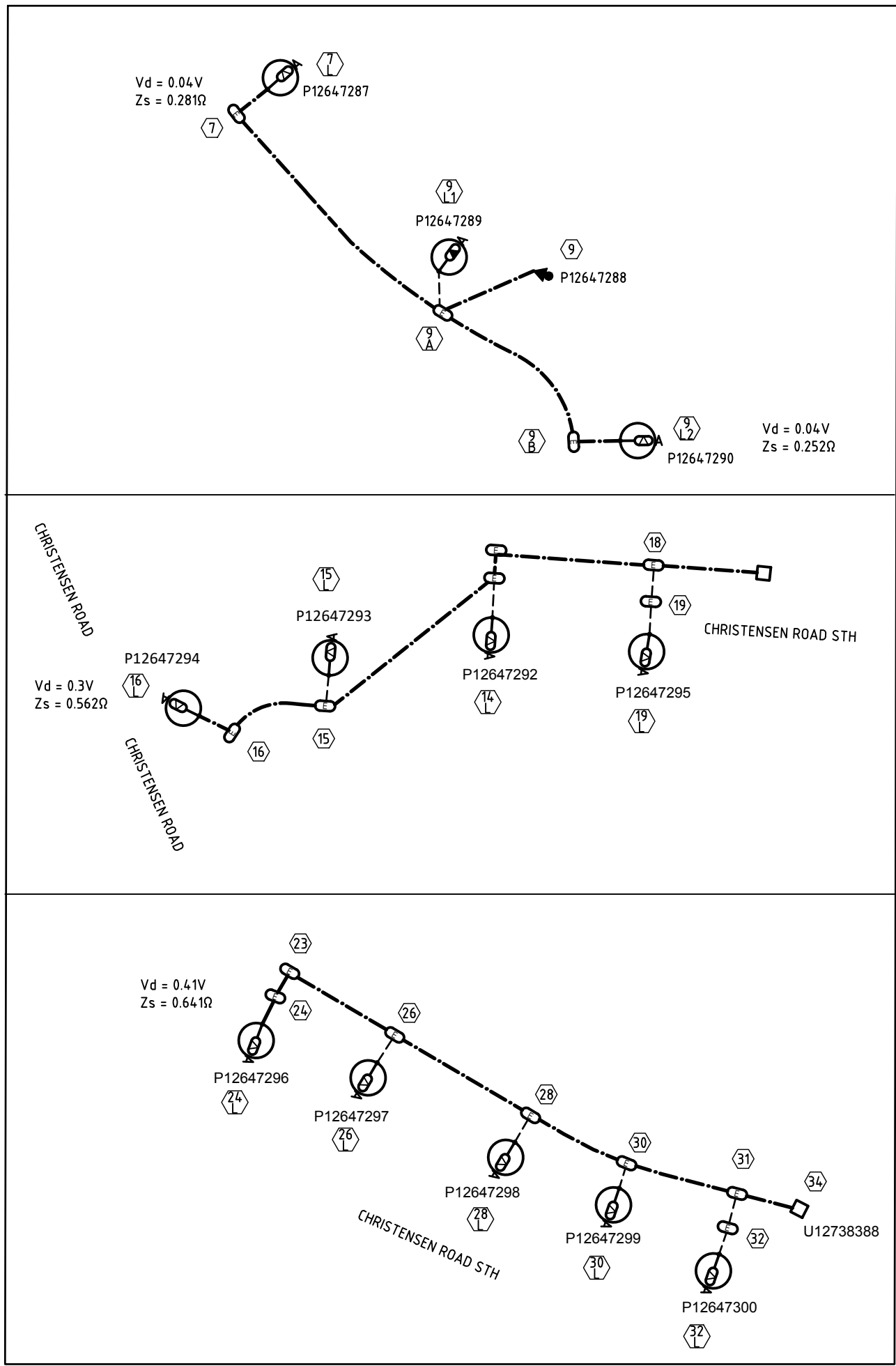


CHRISTENSEN RD x CHRISTENSEN RD SOUTH INTERSECTION [ZONE 1]
(SCALE 1:500 @A1)

HORIZONTAL UNIFORMITY (UE1) ZONE 1					
ZONE 1	MAX	MIN	(UE1)	ℓ	
ZONE 1A	12.85	4.20	3.06	8.51	0.49
ZONE 1B	21.55	4.35	4.95	12.25	0.36
ZONE 1C	19.01	3.20	5.94	8.34	0.38
ZONE 1D	36.66	7.43	4.93	23.78	*0.313

* NOTE: ℓ FOR ZONE 1D > 10% ABOVE 0.35cd.m⁻²

CHRISTENSEN RD - CHRISTENSEN RD STH LUX PLOT
(NOT TO SCALE)



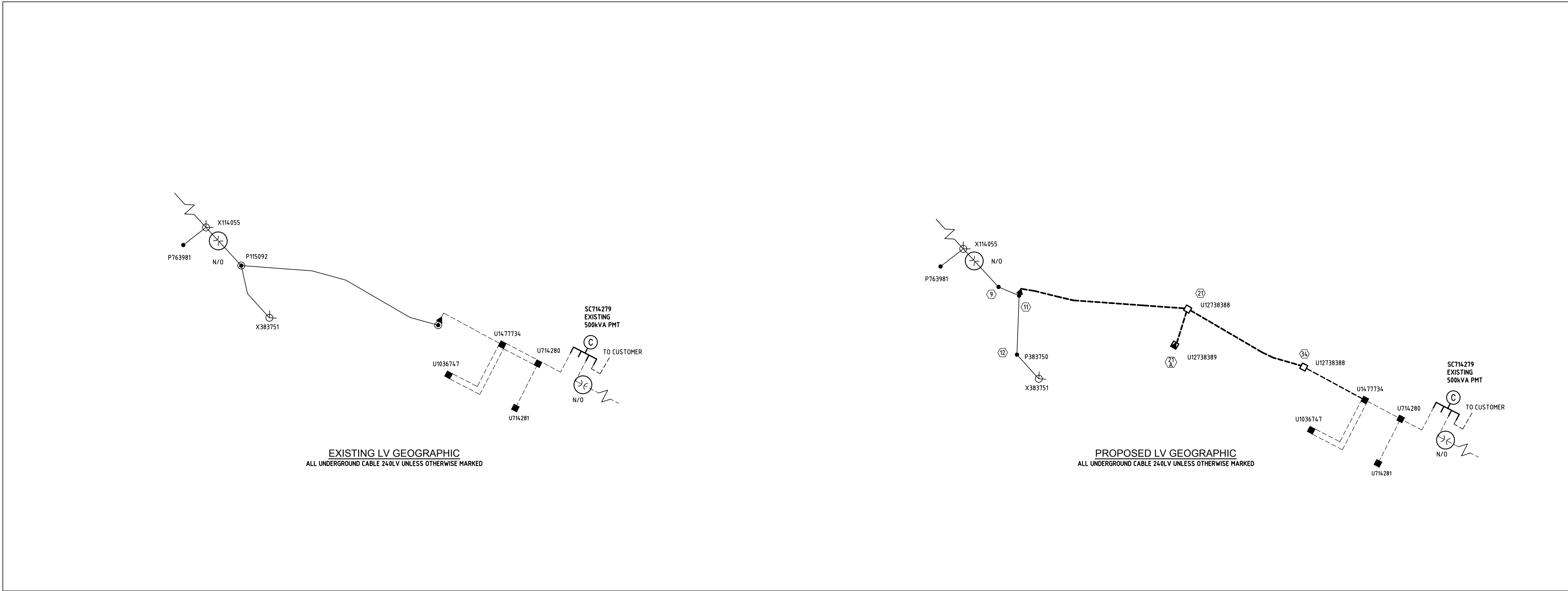
PROPOSED STREETLIGHT GEOGRAPHICS
(NOT TO SCALE)

ELECTRICAL / STREET LIGHT CERTIFICATION	
THIS IS TO CERTIFY THAT THE DESIGN OF ENERGEX RETICULATION IS IN ACCORDANCE WITH ENERGEX DESIGN MANUALS AND WORK CATEGORY SPECIFICATION 47.1 & 47.3 WHERE APPLICABLE.	
ROAD LIGHTING CERTIFIED TO COMPLY WITH AS/NZS 1158.1:2022 FOR 'V' CATEGORY & AS/NZS 1158.3.1:2020 FOR 'P' CATEGORY LIGHTING FOR ROADS & PUBLIC SPACES SUPPLIED UNDER ENERGEX CONTRACT. THE LIGHTING DESIGN IS BASED UPON THE FOLLOWING MAINTENANCE SCHEDULE:	
* LED LAMP REPLACEMENT AT 88000 HOUR INTERVALS INC. CLEANING & INSPECTION OF LUMINAIRE EVERY 48 MONTHS. * LAMP REPLACEMENT AT 36 MONTH INTERVALS INC. CLEANING & INSPECTION OF LUMINAIRE. * VEGETATION TO BE KEPT CLEAR OF LUMINARIES. * INSPECTION PATROLS & SPOT LAMP REPLACEMENT TO MAINTAIN SERVICE AVAILABILITY AT MIN. 95%. * LUMINARIES & LAMPS TO BE REPLACED WITH EXACT EQUIVALENTS. * LUX PLOT SHOWN TO EXISTING LUMINARIES OUTSIDE LIMIT OF RECOMMENDATION THAT MAY NOT COMPLY TO AS1158.3.1:2020.	
STREET NAME CHRISTENSEN RD, CHRISTENSEN RD STH	LIGHTING CATEGORY V5
MD TOWFIQUL ISLAM (RPEQ 20124)	
DATE	18/11/2024

MAINTENANCE REGIME	
Maintenance Factor Assumed: The maintenance factor assumed in the calculations is as follows: * Luminaire Maintenance Factor (refer AS 1158.1:2022 APPENDIX E). * Lamp Lumen Depreciation Factor (Refer Lamp Manufacturer's "Lamp Lumen Depreciation Curves").	
Maintenance Factor Calculated	0.75
Schedule of Maintenance: This road lighting design is based on the following maintenance schedule: * LED lamp replacement carried out at 88000 hrs intervals. Cleaning regime every 48 months. * All other luminaires lamp replacement & cleaning carried out at 36 month intervals.	
At this time the following shall also occur: * All optical surfaces, both internal and external, of the luminaire shall be cleaned. * All gaskets shall be checked for deterioration and replaced where necessary. * Damaged/weathered visors shall be replaced. * All accessible screws, nuts etc. shall be checked for tightness. * A visual check shall be made of the electrical components and wiring for signs of overheating. * If required, the luminaire shall be realigned/adjusted to the design specification.	

CERTIFICATE OF COMPLIANCE											
DESIGN DOCUMENTATION IN ACCORDANCE WITH THE REQUIREMENTS OF COMPLIANCE OF AS/NZS 1158											
* Refer AS1158.1:2022 Appendix D for information regarding V category * Refer AS1158.3.1:2020 Appendix C for information regarding P category * PerfectLite 5.06 computer software used * AGI32 computer software used											
ITEM	PROJECT SPECIFICATION		PROJECT SPECIFICATION		PROJECT SPECIFICATION		PROJECT SPECIFICATION		PROJECT SPECIFICATION		
LIGHTING CATEGORY											
Road Name	CHRISTENSEN RD		CHRISTENSEN RD		CHRISTENSEN RD		CHRISTENSEN RD		CHRISTENSEN RD STH		
Nominated Lighting Category	V5		V5		V5		V5		V5		
Road Surface Reflection Characteristic	R3		R3		R3		R3		R3		
INSTALLATION GEOMETRY											
Road Reserve Lighting Design Width	12.5		12.5		12.5		12.5		13		
Mounting Height	10.5		10.5		10.5		10.5		10.5		
Overhang	2.2		2.2/2		-2		2.2/-2		2.2		
Lighting Arrangement	ARR1		ARR3		ARR1		ARR3		ARR1		
Pole Setback	0.9loK		0.9loK/ 5loK		5loK		0.9loK/ 5loK		0.9loK		
Upcast Angle	0°		5°		5°		5°		0°		
LUMINAIRE/LAMP 1 DETAILS											
Lamp Type / Wattage	L113A		L113A		L113A		L90A		L67A		
Luminaire Identification	Philips RoadFlair		Philips RoadFlair		Philips RoadFlair		Philips RoadFlair		Philips RoadFlair		
Lamp Flux (Lumens)	16179		16179		16179		10800		10838		
I-Table Number (cie)	BRP392 LED161NW 113W 220-240V DWV		BRP392 LED161NW 113W 220-240V DWV		BRP392 LED161NW 113W 220-240V DWV		BRP392 LED108NW 90W DWV		BRP392 LED108NW 67W 220-240V DWV		
Lighting Tariff	2		2		2		2		2		
Power Factor	HPF (> 0.95)		HPF (> 0.95)		HPF (> 0.95)		HPF (> 0.95)		HPF (> 0.95)		
Start/Run Currents (Amps)	0.47		0.47		0.47		0.375		0.28		
IP Rating	IP66		IP66		IP66		IP66		IP66		
LUMINANCE BASED DESIGN - CATEGORY V LUMINAIRE/LAMP 1 TECHNICAL PARAMETER COMPLIANCE											
Spacing (m)	55		33		33		33		63		
Traffic Direction	Normal	Oncoming	Normal	Oncoming	Normal	Oncoming	Normal	Oncoming	Normal	Oncoming	
Average carriageway luminance (L _a) cd/m ²	0.76	0.79	1.13	1.1	0.53	0.62	0.77	0.75	0.43	0.45	
Overall uniformity (U _o)	0.34	0.35	0.52	0.37	0.34	0.31	0.48	0.37	0.33	0.36	
Longitudinal Uniformity (U _l)	0.58	0.62	0.52	0.75	0.69	0.75	0.51	0.71	0.5	0.57	
Upward wasted light ratio (UWL/R) %	0	0	0.04	0.04	0.02	0.02	0.04	0.04	0	0	
Threshold increment (T _i) %	14.94	8.01	11.45	9.26	14.53	6.23	10.36	9.1	1.3	8.39	
Surround verge illuminance (E _v) %	65.83	54.52	58.26	87.76	101.27	60.63	59.57	89.64	66.55	64.31	
Complies with standard	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
ILLUMINANCE BASED DESIGN - CATEGORY V TECHNICAL PARAMETER COMPLIANCE - "design area" ie. intersection of x and x roads											
Point Horizontal Illuminance (E _h)	3.5		3.5		3.5		3.5		3.5		
Illuminance (Horizontal Uniformity) Cat V (U _h)	8		8		8		8		8		

RATE 2 STREETLIGHT SCHEDULE																								
LOCATION	STN NO	SITE ID (POLE NO)	POLE or COMPONENTS						LANTERN						OUTREACH BRACKET						MOUNT HEIGHT (m)	REMARKS		
			COMP ID	EXIST (m)	REC (m)	ERECT (m)	SLM or IIN	ALIGN (m)	COMP ID	EXIST	RECOVER LUMIN	CUST	DATE DE-ENERG	ERECT LUMIN	CUST	DATE ENERG	SLM or IIN	EXIST (m)	REC (m)	ERECT (m)			SLM or IIN	UPCAST (°)
CHRISTENSEN RD	34L	P114053	PO 1			TIMBER			5m BoK	SL 1				L113A	GCCC		SLEDHPH212A		3	SWPBMA4	0°	10.5		
	4AL	P12647285	PO 1			TIMBER			5m BoK	SL 1				L113A	GCCC		SLEDHPH212A		3	SWPBMA4	0°	10.5		
	5L	P12647286	PO 1			8.5BPM		SB105130OC1	0.8 BoK	SL 1				L113A	GCCC		SLEDHPH212A		3		0°	10.5		
	7L	P12647287	PO 1			8.5BPM		SB105130OC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3		0°	10.5		
	9L	P12647289	PO 1			8.5BPM		SB105130OC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3		0°	10.5		
	10L	P115092	PO 1		EX	EX	TIMBER	EX	EX	SL 1		S100	GCCC				SLS100C		EX			0°	EX	
	11L1	P12647290	PO 1			TIMBER			1m BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3	SWPBMA2	5°	9		
	11L2	P12647291	PO 1			8.5BPM		SB105130OC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3			0°	10.5	
	14L	P12647292	PO 1			8.5BPM			0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3	SWPBMA4	0°	10.5		
	17L	P115093	PO 1	8.5	8.5		EX	EX	EX	SL 1				S100C	GCCC		SLS100C		3			0°	10.5	
CHRISTENSEN RD STH	15L	P12647293	PO 1			8.5BPM		SB105130UC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3			0°	10.5	
	16L	P12647294	PO 1			8.5BPM		SB105130UC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3			0°	10.5	
	19L	P12647295	PO 1			8.5BPM		SB105130UC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3	SWPBMA4	5°	10.5		
	20L	P115094	PO 1	EX	EX		TIMBER	EX	EX	SL 1		S100	GCCC				SLS100C		EX			0°	EX	
	24L	P12647296	PO 1			8.5BPM		SB105130UC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3	SWPBMA4	5°	10.5		
	25L	P115100	PO 1	EX	EX	EX	TIMBER	EX	EX	SL 1		S100	GCCC				SLS100C		EX			0°	EX	
	26L	P12647297	PO 1			8.5BPM		SB105130UC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3	SWPBMA4	5°	10.5		
	27L	P115095	PO 1	EX	EX		TIMBER	EX	EX	SL 1		S100	GCCC				SLS100C		EX			0°	EX	
	28L	P12647298	PO 1			8.5BPM		SB105130UC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3	SWPBMA4	5°	10.5		
	29L	P115096	PO 1	EX	EX		TIMBER	EX	EX	SL 1		S100	GCCC				SLS100C		EX			0°	EX	
	30L	P12647299	PO 1			8.5BPM		SB105130UC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3	SWPBMA4	5°	10.5		
	32L	P12647300	PO 1			8.5BPM		SB105130UC1	0.8 BoK	SL 1				L67A	GCCC		SLEDHPH0702A		3	SWPBMA4	5°	10.5		



SYMBOL LEGEND

- PROPOSED 240 AI (UNLESS OTHERWISE MARKED)
- PROPOSED 4C16 Cu
- EXISTING 240 AI (UNLESS OTHERWISE MARKED)
- PROPOSED OVERHEAD LV ROUTE
- EXISTING OVERHEAD LV ROUTE
- PMT LV GEOGRAPHIC
- PROPOSED SUPPLY PILLAR
- EXISTING SUPPLY PILLAR
- PROPOSED LINK PILLAR
- EXISTING LINK PILLAR
- COMMERCIAL PILLAR
- CIRCUIT CONTINUES
- DISCONNECT LINKS (OPEN)
- DISCONNECT LINKS (CLOSED)
- OVERHEAD POLE TRANSFORMER
- OVERHEAD POLE (LV ONLY)
- OVERHEAD LV TERMINATION

NOTE:
FOR SC22179;
AREAS SHOW KEY PILLARS OF AFFECTED CIRCUIT (1ST PILLAR ON EACH CCT/THREE WAYS/END OF RUNS) & 240LV CABLE

FOR SC12738013;
AREAS SHOW ALL PILLARS & 240LV/4C16 CABLE.

PMT LV SWBD - SWITCH FUSE CIRCUITS				
LOCATION:	CHRISTENSEN RD STH		STATION: SC714279	
CIRCUIT No.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
TFMR ISOLATOR	80 x 35	WB	6	EXISTING
1	80 x 35	WB	5	TO CHRISTENSEN RD STH U714280 (DIRECT) / CHRISTENSEN RD STH U714281 / CHRISTENSEN RD STH U12738389 / CHRISTENSEN RD STH P12647290 & SERVICES
2	80 x 35	WB	5	SPARE
3	80 x 35	WB	5	EXISTING
4	80 x 35	WB	5	EXISTING
MATERIAL: GRAVOPLY II (1.5mm) or similar				

LV POLE TERMINATION LABEL		
LABEL SIZE	SITE LOCATION FOR ATTACHING OF LABEL	LABEL INFORMATION
300x100	POLE No: P12647290	LV CABLE TO CHRISTENSEN RD STH SC714279 (FS1) / CHRISTENSEN RD STH U12738389 / CHRISTENSEN RD STH U714281 & SERVICES
	LOCATION: CHRISTENSEN RD STH	
MATERIAL: GRAVOPLY II (1.5mm) or similar		

ELECTRICAL / STREET LIGHT CERTIFICATION

THIS IS TO CERTIFY THAT THE DESIGN OF ENERGEX RETICULATION IS IN ACCORDANCE WITH ENERGEX DESIGN MANUALS AND WORK CATEGORY SPECIFICATION 47.1 & 47.3 WHERE APPLICABLE.

ROAD LIGHTING CERTIFIED TO COMPLY WITH AS/NZS 1158.1:2022 FOR 'V' CATEGORY & AS/NZS 1158.3:1:2020 FOR 'P' CATEGORY LIGHTING FOR ROADS & PUBLIC SPACES SUPPLIED UNDER ENERGEX CONTRACT. THE LIGHTING DESIGN IS BASED UPON THE FOLLOWING MAINTENANCE SCHEDULE:

- * LED LAMP REPLACEMENT AT 88000 HOUR INTERVALS INC. CLEANING & INSPECTION OF LUMINAIRE EVERY 48 MONTHS.
- * LAMP REPLACEMENT AT 36 MONTH INTERVALS INC. CLEANING & INSPECTION OF LUMINAIRE.
- * VEGETATION TO BE KEPT CLEAR OF LUMINARIES.
- * INSPECTION PATROLS & SPOT LAMP REPLACEMENT TO MAINTAIN SERVICE AVAILABILITY AT MIN. 95%.
- * LUMINARIES & LAMPS TO BE REPLACED WITH EXACT EQUIVALENTS.
- *LUX PLOT SHOWN TO EXISITNG LUMINARIES OUTSIDE LIMIT OF RECOMMENDATION THAT MAY NOT COMPLY TO AS1158.3:1 2020.

STREET NAME
CHRISTENSEN RD, CHRISTENSEN RD STH

LIGHTING CATEGORY
V5

MD TOWFIQUL ISLAM (RPEQ 20124)

DATE
18/11/2024

ISSUE FOR COUNCIL
ACCEPTANCE ONLY
NOT FOR CONSTRUCTION

This drawing is to be considered preliminary until this disclaimer is removed by Peter Eustace Pty. Ltd.

