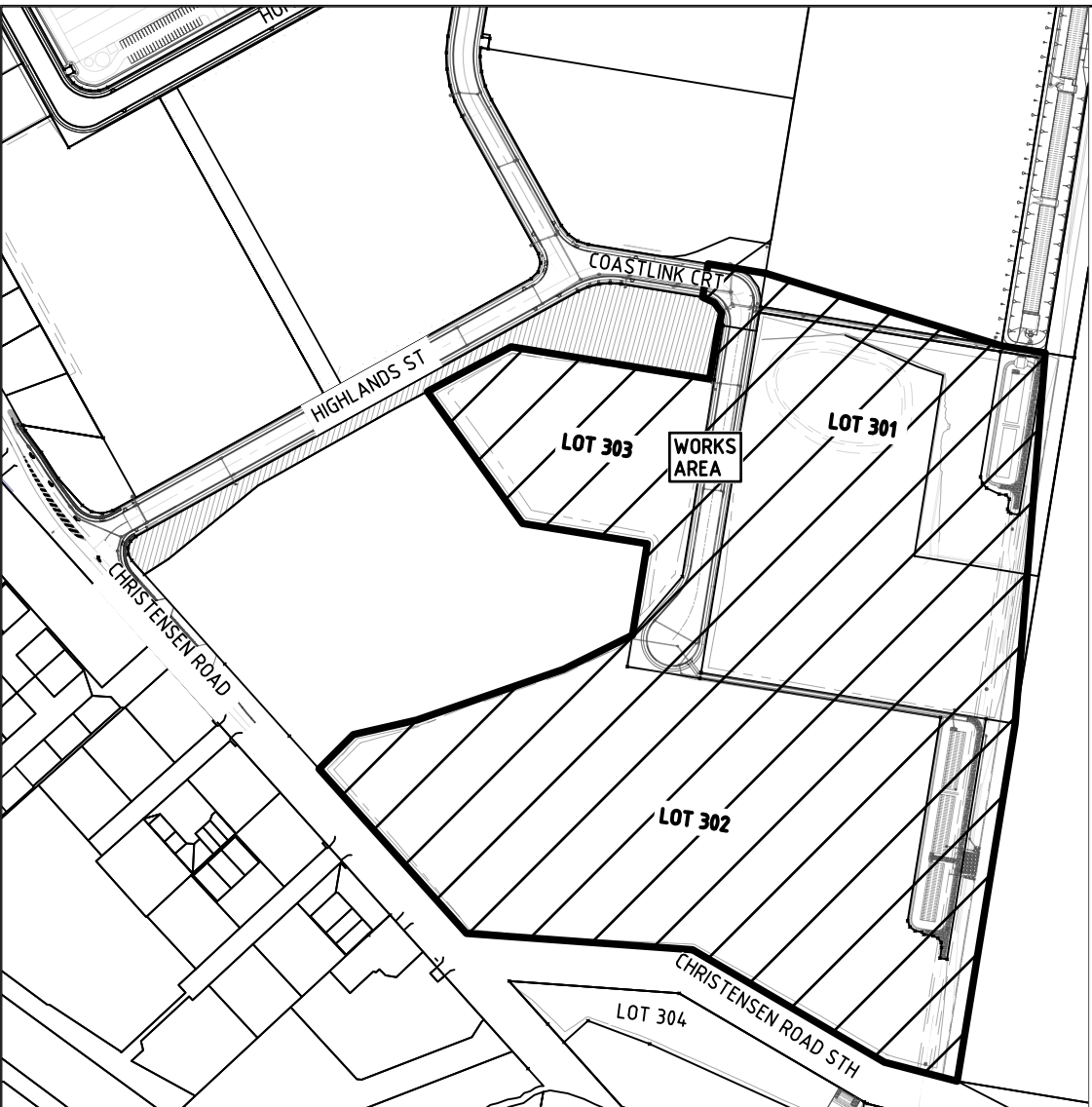




SITE LOCALITY (SCALE 1:5000@A1)

!WARNING!

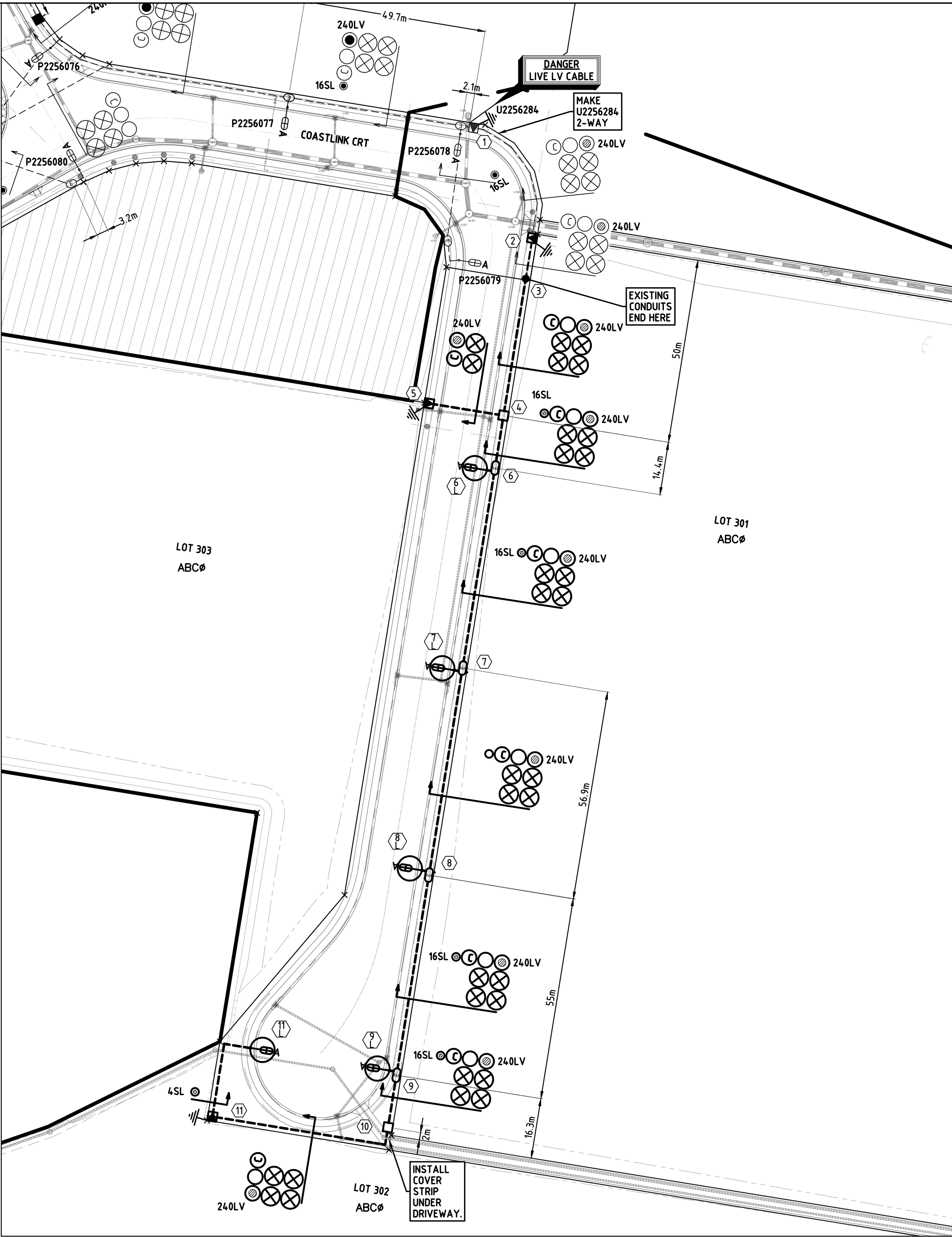
FIRE ANT TERRITORY

THIS SITE IS WITHIN A RED IMPORTED FIRE ANT BIOSECURITY ZONE. CALL 132523 FOR FURTHER INFORMATION.

URD CIVIL WORKS SCHEDULE (ROAD CROSSINGS BY CIVIL CONTRACTOR)																								
LOCATION	STATIONS FROM-TO	CONDUIT LENGTH (m)										BENDS (°/No)										X-SECTION (m)		
		50	No	100C	No	100	No	125	No	50	No	100C	No	100	No	125	No	EXCAV TAPE	COVER STRIP	TRENCH DETAIL	DRAW WIRE	KERB MARK	REMARKS	
COASTLINK CRT	4 - 5			20	1	20	1	20	2										20	L	80	2		
TOTALS				20		20		40											20					

URD CIVIL WORKS SCHEDULE (ALONG FOOTPATHS BY ELECTRICAL CONTRACTOR)																								
LOCATION	STATIONS FROM-TO	CONDUIT LENGTH (m)										BENDS (°/No)										X-SECTION (m)		
		50	No	100C	No	100	No	125	No	40	No	100C	No	100	No	125	No	EXCAV TAPE	COVER STRIP	TRENCH DETAIL	DRAW WIRE	KERB MARK	REMARKS	
COASTLINK CRT	3 - 4			40	1	40	2	40	4									40		SP1	280			
	4 - 10	200	1	200	1	200	2	200	4									200		SP2	1600			
	10 - 11			55	1	55	2	55	4									50	5	SP1	385			
	6 - 6L		5	1															5	O	5			
	7 - 7L		5	1															5	O	5			
	8 - 8L		5	1															5	O	5			
	9 - 9L		5	1															5	O	5			
	11 - 11L	35	1															25	10	O	35			
TOTALS		255		295		590		1180										315	35		2320			

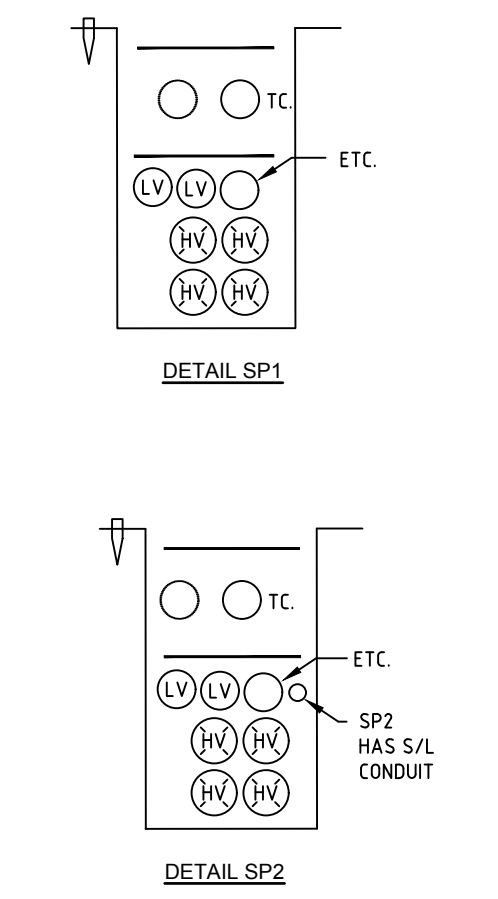
EQUIPMENT SCHEDULE																				
LOCATION	STN No	SITE I.D.	EXIST	REC	INSTALL	SIZE & DESCRIPTION	IIN	COMP ID	PLANT No.	MODEL ID	QTY	LCC	REMARKS							
COASTLINK CRT	1	U2256284	*		*	SERV PILLAR EARTH LUG SET		EX		EX EX LVSP4240	EX EX 1		MAKE 2-WAY							
	2	U12543015	*		*	C + I PILLAR EARTH		C11		LVLP400CFS ASSY1037-1	1 1									
	4	U12543016	*		*	SUPPLY PILLAR (240-240-240 7F)		PI1			1									
	5	U12543017	*		*	C + I PILLAR EARTH		C11		LVLP400CFS ASSY1037-1	1 1									
	6				*	S/L PIT & LID (TYPE 4) JUNCTION BOX KIT (NO FUSE)		PT1		ASSY833-1 ASSY833-5	1 1									
	7				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1									
	8				*	S/L PIT & LID (TYPE 4)		PT1		ASSY833-1	1									
	9				*	S/L PIT & LID (TYPE 4) JUNCTION BOX KIT (NO FUSE)		PT1		ASSY833-1 ASSY833-5	1 1									
	10	U12543018	*		*	SUPPLY PILLAR (240-240 7F)		PI1		LVSP4-6S	1									
	11	U12543019	*		*	C + I PILLAR S/L FUSE S/L FUSE HOLDER EARTH		C11		LVLP400CFS ASSY801-1 ASSY1043-3 ASSY1037-1	1 1 1 1									



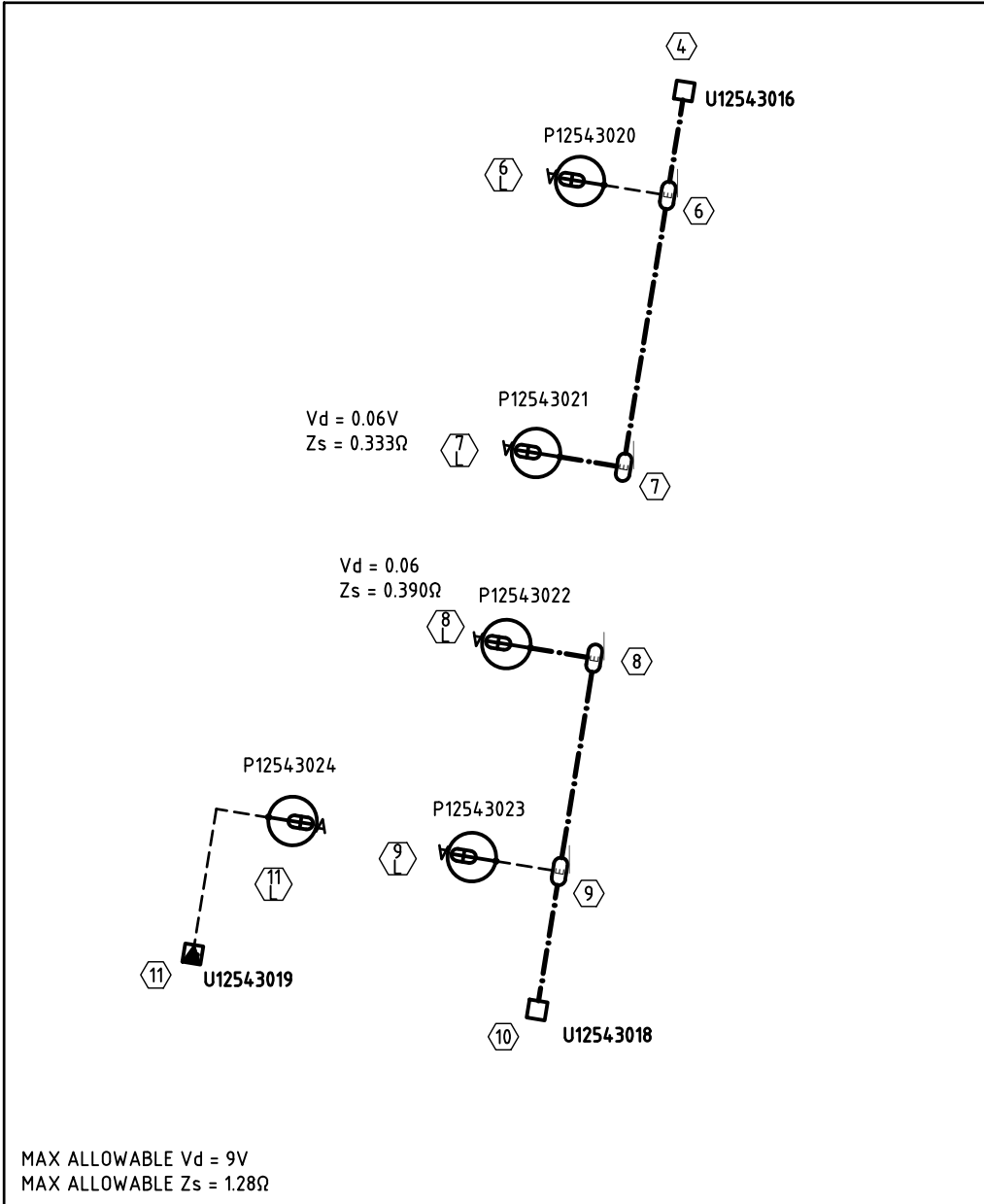
SYMBOL LEGEND	
	PROPOSED 50mm S/L
	PROPOSED ENERGEX 100mm COMMS
	PROPOSED 100mm
	PROPOSED 125mm
	EXISTING 40mm S/L
	EXISTING ENERGEX 100mm COMMS
	EXISTING 100mm
	EXISTING 125mm
	PROPOSED CABLE (AS MARKED)
	EXISTING CABLE (AS MARKED)
	PROPOSED UNDERGROUND HV/LV ROUTE
	EXISTING UNDERGROUND HV/LV ROUTE
	PROPOSED OVERHEAD HV/LV ROUTE
	EXISTING OVERHEAD HV/LV ROUTE
	PROPOSED S/L CABLE
	EXISTING S/L CABLE
	PDMOUNT TRANSFORMER
	PMT LV GEOGRAPHIC
	PMT HV GEOGRAPHIC
	RING MAIN UNIT
	RMU HV SCHEMATIC
	PROPOSED SUPPLY PILLAR
	EXISTING SUPPLY PILLAR
	PROPOSED LINK PILLAR
	EXISTING LINK PILLAR
	COMMERCIAL PILLAR
	EARTH
	PROPOSED TYPE 4 PIT
	EXISTING TYPE 4 PIT
	RECOVER EQUIPMENT
	11kV STRAIGHT JOINT
	OVERHEAD POLE TRANSFORMER
	OVERHEAD POLE (HV ONLY)
	OVERHEAD POLE (LV ONLY)
	OVERHEAD POLE (HV & LV)
	OVERHEAD HV TERMINATION
	OVERHEAD LV TERMINATION
	AIR BREAK SWITCH (OPEN)
	AIR BREAK SWITCH (CLOSED)
	DISCONNECT LINKS (OPEN)
	DISCONNECT LINKS (CLOSED)
	WATER METER
	SURVEY PEG

STREET LIGHT SYMBOL LEGEND	
	PROPOSED L50A (RATE 2)
	EXISTING L50A (RATE 2)

ENERGEX NON-STANDARD TRENCH DETAILS (NTS)



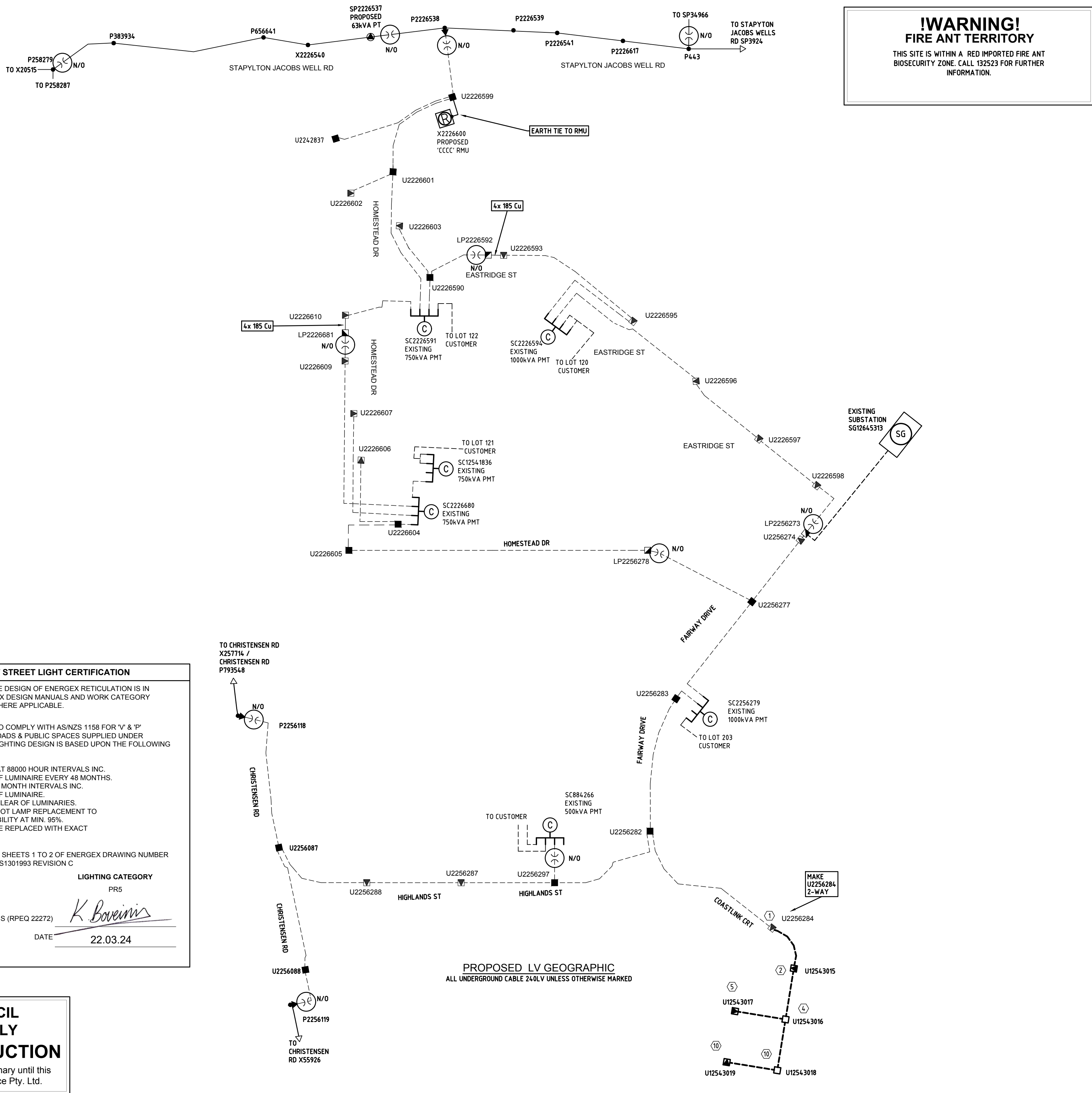
CERTIFICATE OF COMPLIANCE		
DESIGN DOCUMENTATION IN ACCORDANCE WITH THE REQUIREMENTS OF COMPLIANCE OF AS/NZS 1158		
* Refer AS1158.1.1:2022 Appendix D for information regarding V category * Refer AS1158.3.1:2020 Appendix E for information regarding P category * PerfectLite 5.06 computer software used		
ITEM	PROJECT SPECIFICATION	PROJECT SPECIFICATION
LIGHTING CATEGORY		
Road Name	COASTLINK CRT	COASTLINK CRT
Nominated Lighting Category	PR5	PR5
Road Surface Reflection Characteristic	R3	R3
INSTALLATION GEOMETRY		
Road Reserve Lighting Design Width	23	23
Mounting Height	9	9
Overhang	0.7	0.7
Lighting Arrangement	ARR1	ARR3
Pole Setback	0.8 BOK	0.8 BOK
Upcast Angle	0°	0°
LUMINAIRE/LAMP 1 DETAILS		
Lamp Type / Wattage	L50A	L50A
Luminaire Identification		
Lamp Flux (Lumens)	6000	6000
I-Table Number (cie)	BRP391 LED60NW 50W DWV	BRP391 LED60NW 50W DWV
Lighting Tariff	2	2
Power Factor	HPF (> 0.95)	HPF (> 0.95)
Start/Run Currents (Amps)	0.223	0.223
IP Rating	IP66	IP66
CATEGORY Px LUMINAIRE/LAMP 1 MAXIMUM SPACING CALCULS		
Average Horizontal Illuminance (E _a)	≥0.85 lx	≥0.85 lx
Minimum Point Horizontal Illuminance (E _p)	≥0.14 lx	≥0.14 lx
Illuminance Uniformity (U ₀)	≥10	≥10
Upward wasted light ratio (UWLUR) %	≤0.0%	≤0.0%
Road Reserve Lighting Design Width (m)	Maximum Spacing (m)	Maximum Spacing (m)
20	63.3	61.6



PROPOSED STREETLIGHT GEOGRAPHICS (NOT TO SCALE)

UNDERGROUND CABLE SCHEDULE															LCC	REMARKS
LOCATION	STATIONS FROM-TO	VOLTS	EXIST	TRF	REC	INSTALL	CABLE SIZE/TYPE		MODEL ID	ROUTE LENGTH (m)	CABLE LENGTH (m)	NEW	REC			
COASTLINK CRT	1 - 2	LV				*	240mm² 4C Al XLPE		LVA4240XPV	42	45					
	2 - 4	LV				*	240mm² 4C Al XLPE		LVA4240XPV	47	50					
	4 - 5	LV				*	240mm² 4C Al XLPE		LVA4240XPV	22	25					
	4 - 10	LV				*	240mm² 4C Al XLPE		LVA4240XPV	202	205					
	10 - 11	LV				*	240mm² 4C Al XLPE		LVA4240XPV	52	55					
	4 - 6	SL				*	16mm² 2C Cu PVC/PVC		LVC216PVPV	17	20					
	6 - 6L	SL				*	4mm² 2C Cu PVC/PVC		LVC24PVPV	2	5					
	6 - 7L	SL				*	16mm² 2C Cu PVC/PVC		LVC216PVPV	57	60					
	9 - 8L	SL				*	16mm² 2C Cu PVC/PVC		LVC216PVPV	57	60					
	9 - 9L	SL				*	4mm² 2C Cu PVC/PVC		LVC24PVPV	2	5					
	9 - 10	SL				*	16mm² 2C Cu PVC/PVC		LVC216PVPV	22	25					
	11 - 11L	SL				*	4mm² 2C Cu PVC/PVC		LVC24PVPV	27	30					
TOTALS		LV					240mm² 4C Al XLPE		LVA4240XPV		380					
		SL					16mm² 2C Cu PVC/PVC		LVC216PVPV		165					
		SL					4mm² 2C Cu PVC/PVC		LVC24PVPV		40					

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)
COASTLINK CRT	6L	P12543020	PO 1			7BPM	SB90115UCI	0.8 BOK	SL 1				L50A	GCCC		SLEDPH0509A			1.5	9	
	7L	P12543021	PO 1			7BPM	SB90115UCI	0.8 BOK	SL 1				L50A	GCCC		SLEDPH0509A			1.5	9	
	8L	P12543022	PO 1			7BPM	SB90115UCI	0.8 BOK	SL 1				L50A	GCCC		SLEDPH0509A			1.5	9	
	9L	P12543023	PO 1			7BPM	SB90115UCI	0.8 BOK	SL 1				L50A	GCCC		SLEDPH0509A			1.5	9	
	11L	P12543024	PO 1			7BPM	SB90115UCI	0.8 BOK	SL 1				L50A	GCCC		SLEDPH0509A			1.5	9	



PMT LV SWBD - SWITCH FUSE CIRCUITS				
LOCATION:		HIGHLANDS ST		
CIRCUIT No.		LABEL SIZE	LABEL COLOUR	LETTER SIZE
TPMR ISOLATOR	80 x 35	WB	6	
1	80 x 35	WB	5	EXISTING
2	80 x 35	WB	5	EXISTING
3	80 x 35	WB	5	TO HIGHLANDS DR U256297 (DIRECT) / FAIRWAY DR SC2256279 (FS2) / CHRISTENSEN DR P2256118 / CHRISTENSEN DR P2256119 / COASTLINK CRT U12543017 / COASTLINKCRT U22543019 & SERVICES
4	80 x 35	WB	5	SPARE

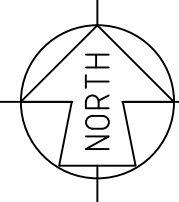
MATERIAL: GRAVOPLY II (1.5mm) or similar

PROPOSED COMMISSIONING SCHEDULE				
TENTATIVE ONLY SUBJECT TO AMENDMENT BY SWITCHING CO-ORDINATOR				
ITEM No	LOCATION	APPARATUS	ACTION	
	COMMISSION NEW LV EQUIPMENT - LV SWITCHING			
1	ADVISE CONTRACT SUPERVISOR SWITCHING TO COMMENCE			
2	RECEIVE CLEARANCE FROM WORK CREWS ALL WORK COMPLETED			
3	NOTIFY ALL WORK CREWS TREAT PILLARS AS LIVE			
4	COASTLINK CRT	NEW EQUIPMENT		
5	COSTLINK CRT U2256284	LV BRIDGE		
6	COASTLINK CRT	NEW LV EQUIPMENT		
7	ADVISE CONTRACT SUPERVISOR SWITCHING COMPLETE			
			CONNECT & MAKE READY	
			MAKE BRIDGES LIVE	
			COMMISSION & TEST	



PE CONSULTING ENGINEERS

STREET ADDRESS U14, 39 Lawrence Dr, Nerang QLD 4211
 POSTAL ADDRESS PO Box 2835, Nerang DC QLD 4211
 TELEPHONE (07) 5596 1423
 EMAIL mail@pece.com.au
 WEB peteertustace.com.au



SITE CONTACT DETAILS		COUNCIL STANDARD ALIGNMENTS		WORKS COORDINATOR		PETER EUSTACE CONSULTING ENGINEERS		APPROVED		KRIS BOVEINIS		PETER EUSTACE CONSULTING ENGINEERS		WORKSPLOAN VERSION 5.5	
NAME		0.7m FoK		PARENT PROJECT NO.		SCALE: 1:1000@A1		CHECKED		DAVID PRUSS		PROJECT / SUB PROJECT NO.		S1301993	
TBC		Energex UG		WORK REQUEST NO.		301-303		DESIGNER		KRIS BOVEINIS		INSTALL CONDUIT, LV CABLE & EQUIPMENT		3 LOT C&I SUBDIVISION VANTAGE STAGE 3 - Staplyton Jacobs Well Road, Staplyton YATALA, QLD, 4207	
COMPANY		NBN		LOTS		504 SP323485		PHONE		KRIS BOVEINIS					
-		GAS		REFER GAS		GOLD COAST CITY COUNCIL		PLANNER		KRIS BOVEINIS					
PHONE		HP GAS		CANCELLING LOTS				PHONE		(07) 5596 1425					
MOBILE		WATER		REFER CIVIL				ISSUE DATE		22 MARCH 2024					
FAX		STORMWATER		LOCAL AUTHORITY								SHEET ISSUE NO: C		2 of 2	
-		SEWERAGE		UBD REF											
-		OTHER		PEGGED?											