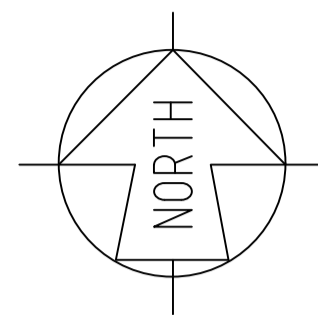


BOARD OF PROFESSIONAL ENGINEERS OF QUEENSLAND

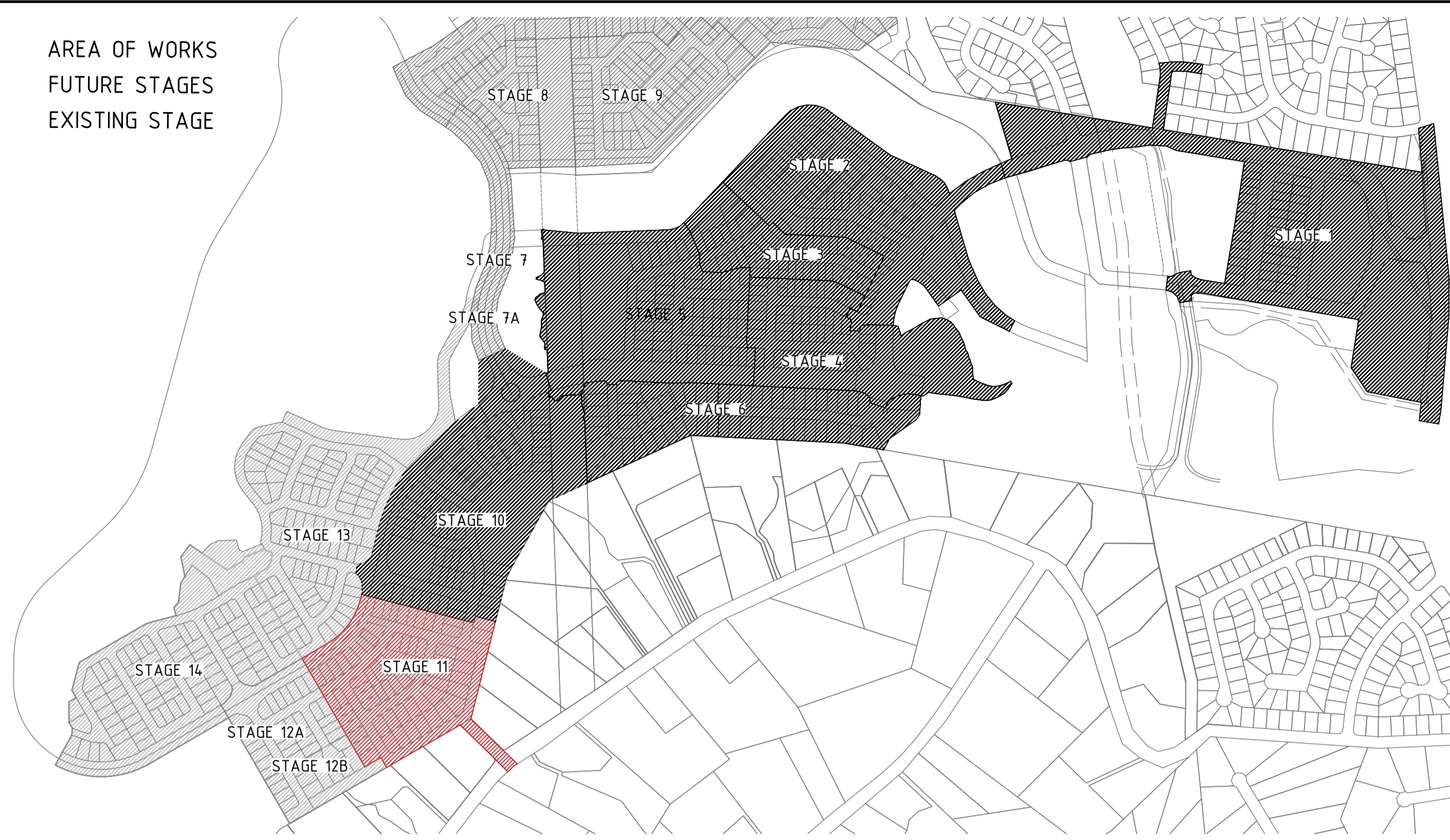
I HEREBY CERTIFY THAT THE ATTACHED PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH LOCAL COUNCIL PLANNING SCHEME POLICIES, ENERGEX DESIGN STANDARDS AND RELEVANT SECTIONS OF AS/NZS 1158

PROJECT FILE: E-11-01-07-30063134

10/09/2024
REGISTERED PROFESSIONAL ENGINEER OF QLD
JAKE ROWE RPEQ NUMBER 25976
DIVISION: ELECTRICAL



- AREA OF WORKS
 - FUTURE STAGES
 - EXISTING STAGE



LOCALITY PLAN
SCALE: N.T.S.

CERTIFICATE OF LIGHTING COMPLIANCE

THIS ROAD LIGHTING DESIGN IS CERTIFIED TO COMPLY GENERALLY WITH THE NOMINATED CATEGORIES OF AS/NZS 1158.1.1: 2022 & AS/NZS 1158.3.1:2020 FOR LUMINAIRES AND LAMPS AS SPECIFIED. OBTRUSIVE LIGHT LEVELS COMPLY WITH THE REQUIREMENTS OF AS/NZS 4282:2019

COMPUTER DESIGN DETAILS:
AS/NZS 1158.2:2020 COMPLIANT SOFTWARE: AG92, PERFECT LIFE
MAINTENANCE FACTOR: 0.75
ROAD SURFACE REFLECTION CHARACTERISTIC DETAILS: R3

THE ROAD LIGHTING MAINTENANCE FACTOR AND SCHEDULE IS BASED UPON THE FOLLOWING:
1. LAMPS AND LUMINAIRES TO BE CLEANED AND INSPECTED AT 48 MONTH INTERVALS.
2. LAMPS AND LUMINAIRES TO BE REPLACED WITH EXACT EQUIVALENTS.
3. REGULAR INSPECTION PATROLS AND SPOT LAMP REPLACEMENT SHALL MAINTAIN SERVICE AVAILABILITY AT 95% MINIMUM.
4. VEGETATION IS TO BE REGULARLY INSPECTED AND MAINTAINED SO THAT LIGHTING LEVELS ARE NOT SUBSTANTIALLY AFFECTED.

INSTALLATION ARRANGEMENT/GEOMETRY

LOCATION	SKYRIDGE BLVD STN's 70-80	SCARLET ST, ORIENTAL ST, BRONZEWING ST, LYREBIRD RD
LIGHTING CATEGORY AND TYPE	PR3 L24A3	PRS L14A3
CARRIAGEWAY DESIGN WIDTH	25.5m	16.5
MEDIAN WIDTH	2.2m	NA
MOUNTING HEIGHT	7.5m	6.5m
LIGHTING ARRANGEMENT	4	1
OUTREACH	1.5m	0.5m
POLE SETBACK	1.00m I.O.K.	1.00m I.O.K.
POLE OFFSET FROM R/PBdy	4.5m-4.9m	0"
UPRAST ANGLE	0°	0°
MAXIMUM COMPLIANT SPACING	69.1m	57.9m

LUMINAIRE/LAMP DETAILS: (REFER AS/NZS 1158.1.3 SECTION 3)

LUMINAIRE IDENTIFICATION	SYLVANA SORREDER
Lamp Type	L24A HD 3K
LAMP FLUX	3337lm
I-TABLE NUMBER	StreetLED3 24W 3K Aero P2D621029061-10
LIGHTING TARIFF	RATE 2
POWER FACTOR	HPP (>0.90)
START/BRN	01A
NATA CERTIFIED PHOTOMETRIC DATA ORIGIN	PHILIPS
	SYLVANA

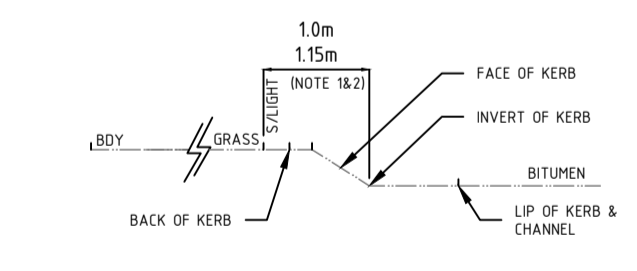
"P" CATEGORY LIGHT TECHNICAL PARAMETERS:

LIGHTING CATEGORY	E _h (lux)	E _p (lux)	U ₂	U _{WLR} (DG)	E _{pv} (lux)	Glare control AT 90° (cd)
PR3	1.75	0.3	8	1	NA	NA
PRS	0.85	0.14	10	1	NA	NA

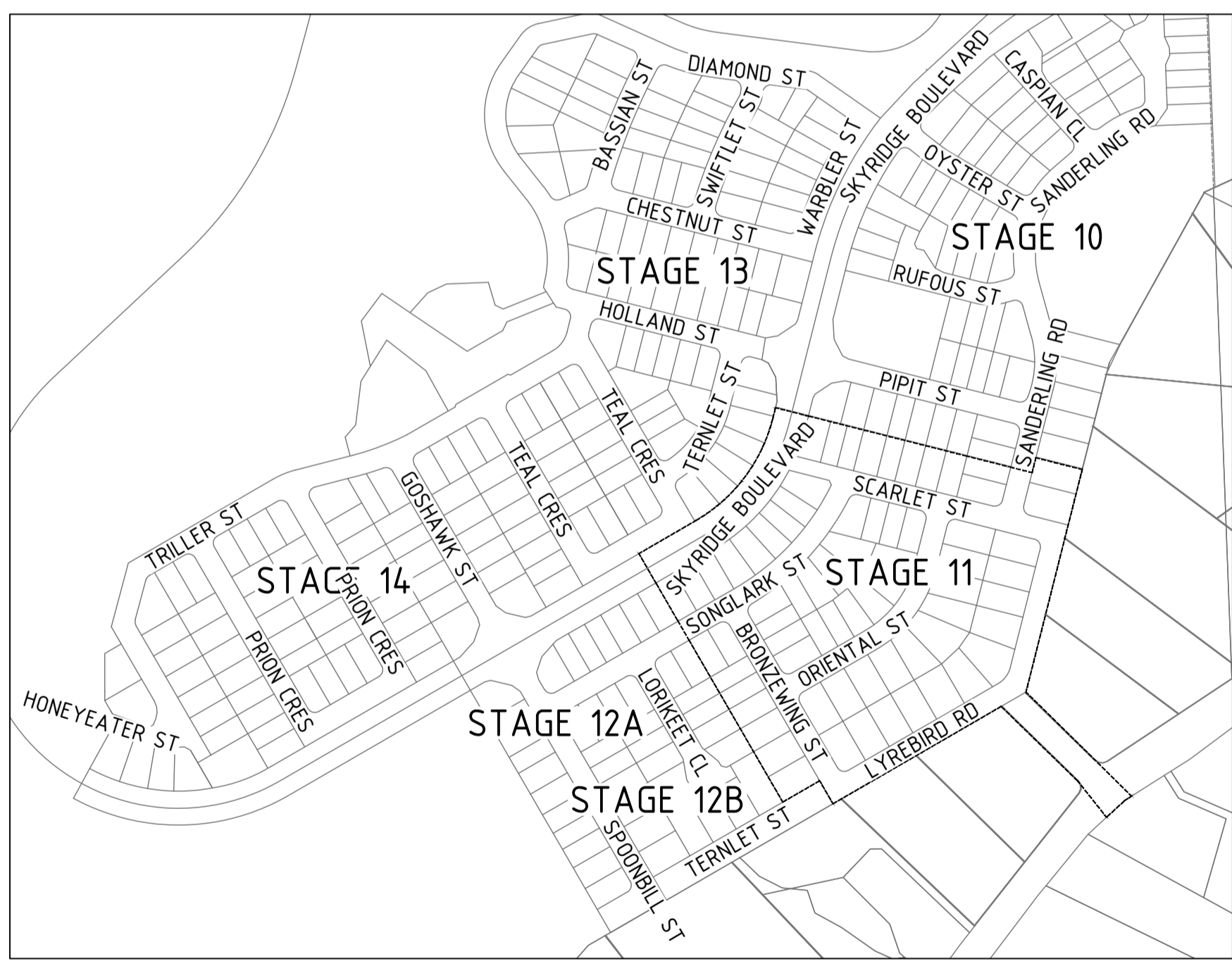
DRAWING LEGEND

SHEET	DRAWING NAME
1.	SITE PLAN, LEGEND, LOCALITY PLAN AND NOTES
2.	SITE PLAN 1
3.	SITE PLAN 2
4.	LV GEOGRAPHIC, LABELS, COMMISSION PLAN, TRENCH DETAILS
5.	HV&SL GEOGRAPHIC, LABELS, COMMISSION PLAN & SL SCHEDULES
6.	CABLE AND EQUIPMENT SCHEDULES, MATERIAL LISTS
7.	CONDUIT SCHEDULES AND OVERHEAD SCHEDULES

NOTE 1: THE POLE ALIGNMENT SHALL BE 1.0m FROM INVERT OF KERB TO POLE CENTRE FOR MINOR ROAD LIGHTS.
NOTE 2: THE POLE ALIGNMENT SHALL BE 1.15m FROM INVERT OF KERB TO POLE CENTRE FOR MAJOR ROAD LIGHTS.



CITY OF GOLD COAST STREETLIGHT ALIGNMENT DETAIL



SITE PLAN
SCALE: N.T.S.

ZERO LOT LINE / DRIVEWAY POSITIONS

ELECTRICAL PILLARS SHALL BE INSTALLED WITH MINIMUM 1.0m CLEARANCE FROM FACE OF PILLAR TO EDGE DRIVEWAY. (PROPOSED OR EXISTING).

IF 1.0m CLEARANCE CANNOT BE ACHIEVED PROTECTIVE BOLLARDS MUST BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH ENERGEX STANDARDS.

STREETLIGHTS SHALL BE INSTALLED WITH AN OFFSET OF 1.0m FROM THE R/P BOUNDARY AWAY FROM INDICATIVE DRIVEWAY LOCATIONS.

TELSTRA / NBN Co / OPTICOMM PITS MUST NOT BE INSTALLED IN DRIVEWAYS (PROPOSED OR EXISTING).

TELSTRA / NBN Co / OPTICOMM PITS SHALL BE INSTALLED IN ACCORDANCE WITH PRIMARY (PREFERRED) OR SECONDARY LOCATIONS INDICATED IN THE ENERGEX UNDERGROUND DISTRIBUTION CONSTRUCTION MANUAL SECTION C2 - EXCAVATION AND REINSTATEMENT BASED ON INDICATED DRIVEWAY POSITIONS.

ZERO LOT - DRIVEWAY DETAIL
SCALE: N.T.S.

CONTRACTOR SPECIFICATIONS

- THIS WORKS PLAN SHALL BE READ IN CONJUNCTION AND COMPLY WITH ALL RELEVANT ENERGEX MANUALS AND SPECIFICATIONS, AUSTRALIAN STANDARDS, THE ELECTRICITY ACT AND THE ELECTRICAL SAFETY ACT.
- USE ONLY ENERGEX APPROVED MATERIALS AND INSTALLATION PRACTICES.
- THE ELECTRICAL CONTRACTOR SHALL LIAISE WITH TELSTRA/NBN Co/OPTICOMM'S CONTRACTOR PRIOR TO CONSTRUCTION, TO COORDINATE INSTALLATION OF THE COMMUNICATION CONDUITS.
- ALL WORKS ON THIS PLAN SHALL BE CARRIED OUT BY AN ACCREDITED ENERGEX-ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL OVERSEE AND SIGN OFF ALL ROAD CROSSINGS AS INSTALLED BY THE APPOINTED CIVIL CONTRACTOR.
- ENSURE ALL STAFF AND SUBCONTRACTORS HAVE THE APPROPRIATE TRAINING/QUALIFICATIONS AND ARE ACCREDITED IN SAFE WORK PRACTICES IN ACCORDANCE WITH ENERGEX REQUIREMENTS, THE ELECTRICITY ACT AND THE ELECTRICAL SAFETY ACT.

GENERAL NOTES

- ALL ELECTRICAL CABLES (AND NO OTHER SERVICES) SHALL BE INSTALLED IN CONDUIT WITHIN THE STANDARD ELECTRICAL ALIGNMENT, WHERE PRACTICAL, CABLES SHALL BE NO CLOSER THAN 250mm FROM THE RP BOUNDARY.
- FOR ALL FOOTPATH CROSSINGS, AND WHERE SITE CONDITIONS REQUIRE DEVIATIONS FROM A STANDARD ALIGNMENT, PROTECTIVE COVER SHALL BE INSTALLED ABOVE CONDUITS.
- EXCEPT WHERE SHOWN IN THIS DESIGN, ALL DEVIATIONS FROM INSTALLATION WITHIN THE ELECTRICAL ALIGNMENT MUST BE APPROVED BY ENERGEX & GLA, VIA LIAISON WITH THE ELECTRICAL DESIGNER.
- DEVELOPER TO ENSURE WATER METER OFFSET A MINIMUM 1000mm FROM ENERGEX PILLARS.
- DEVELOPER TO ENSURE DRIVEWAYS OFFSET A MINIMUM 1000mm FROM ENERGEX PILLARS.
- ENERGEX REQUIRES A MINIMUM 600mm EXCLUSION ZONE FROM ALL OTHER SERVICES, AROUND ELECTRICAL PILLARS.
- ALL PRIVATE PROPERTY POLES, UNDERGROUND CONSUMER CABLING AND CONDUIT INSTALLATION WITHIN THE LOT BOUNDARIES IS THE RESPONSIBILITY OF THE DEVELOPER/LAND OWNER.
- WHERE RETAINING WALLS ARE TO BE CONSTRUCTED ON TOP OF CONSUMERS MAINS CONDUITS, ADEQUATE ELECTRICAL AND COMMUNICATION CONDUITS MUST BE INSTALLED TO AS3000 WITH EXTRA PROTECTION TO AVOID CONDUIT DAMAGE TO GUARANTEE FUTURE INTEGRITY OF CONDUITS.

ON SITE SERVICE CHECKS (DBYD)

ALL UNDERGROUND SERVICES SHOWN WERE SOURCED FROM EITHER THE CIVIL DESIGN OR ASSET OWNERS' RECORDS. ARCADIS DOES NOT GUARANTEE AS-CONSTRUCTED WORKS ARE EXACTLY AS SHOWN ON THIS ELECTRICAL WORKS PLAN. UNLESS OTHERWISE STATED NO POT HOLEING HAS BEEN UNDERTAKEN TO VERIFY RECORDS. POT HOLE TO VERIFY DESIGN WHERE UNSURE.

REQUEST ON SITE IDENTIFICATION AND LOCATION OF EXISTING BURIED SERVICES FROM THE QUEENSLAND DIAL BEFORE YOU DIG SERVICE, ALLOW A MINIMUM TWO (2) DAYS NOTICE. PHONE: 1100

LIAISE WITH THE SITE SUPERINTENDENT FOR CURRENT CIVIL AND UTILITY PLANS PRIOR TO THE COMMENCEMENT OF WORKS.

FIRE ANTS WARNING

CONTRACTORS TO CONFIRM WHETHER THIS SITE IS LOCATED WITHIN A FIRE ANT RESTRICTED AREA PRIOR TO THE COMMENCEMENT OF WORKS.
CONTACT BIO SECURITY QUEENSLAND ON 13 25 23 PRIOR TO MOVING ANY MATERIALS WITHIN RESTRICTED AREAS.

CONDUIT COMPLIANCE

ALL ELECTRICAL CONDUITS UTILISED IN THE DESIGN INCLUDING EXISTING CONDUITS SHALL BE INSTALLED/CHECKED TO CONFORM WITH RELEVANT ENERGEX STANDARDS AS OUTLINED IN THE UDC MANUAL. THIS MUST BE CARRIED OUT BY AN ACCREDITED LICENSED ENERGEX ELECTRICAL CONTRACTOR.

UNDERGROUND CABLE CERTIFICATION

I HAVE WITNESSED THE INSTALLATION OF ALL CABLES AND CONDUITS FOR THIS PROJECT AND CONFIRM THAT THESE ARE INSTALLED ON THE CORRECT ALIGNMENT AND DEPTHS AFTER THE ESTABLISHMENT OF FINAL SURFACE LEVELS. ALL CABLES DETAILED ON THIS DRAWING HAVE BEEN CHECKED USING THE CABLE LOCATOR DESCRIBED BELOW AND ARE, ACCORDING TO MEASUREMENTS TAKEN, CORRECT AS PER PLAN EXCEPT WHERE MARKED UP. PROPOSED ALIGNMENTS ARE SUBJECT TO ACCURACY OF SURVEY PEGS PRESENT AT TIME OF MEASUREMENTS.

ELECTRICAL LEGEND

PROPOSED	EXISTING	
		STATION NUMBER
		RING MAIN UNIT (RMU)
		GROUND TRANSFORMER (GT)
		PADMOUNT TRANSFORMER (PMT)
		POLE TRANSFORMER
		SUPPLY PILLAR
		LINK PILLAR
		C&I PILLAR
		EARTH
		HV POLE
		LV POLE / STREET LIGHT COLUMN
		POLE STAY
		OPEN HV SWITCH
		CLOSED HV SWITCH
		CLOSED LV SWITCH
		OPEN LV BREAK POINT
		CLOSED LV BREAK POINT
		OPEN PMT/RMU ISOLATOR
		CLOSED EDD LINK
		LV UNDERGROUND POLE TERMINATION
		HV UNDERGROUND POLE TERMINATION
		UNDERGROUND JOINT
		ELECTRICAL CABLE IN CONDUIT
		SPARE HV CONDUIT
		SPARE LV CONDUIT
		ENERGEX COMMUNICATIONS CONDUIT
		STREET LIGHT PIT
		CONCRETE ELECTRICAL CABLE MARKERS
		CONDUIT CAP
		UNDERGROUND MAINS / ELECTRICAL CONDUIT
		OVERHEAD MAINS
		WATER METER
		SURVEY PEGS

LIGHTING LEGEND

PROPOSED	EXISTING

AS CONSTRUCTED
SAE ENERGY PTY LTD

NAME: Jake Beith PHONE: 1300 18 20 50
SIGN: DATE: 2/4/2026

ISSUE	DATE	REMARKS	DFT	CHKD	APVDO	LOCAL AUTHORITY	DEVELOPER	ALIGNMENTS
A	11/06/2024	FOR APPROVAL	MD	GJ	JR	COUNCIL CITY OF GOLD COAST	COMPANY CRA GROUP	ENERGEX OH EXISTING
B	10/09/2024	MODIFIED TO ENERGEX REQUIREMENTS	TM	JR	JR	APPROVAL NO. COM/2022/28	CONTACT ALEX LATTUADA	ENERGEX UG 0-900mm
C	21/11/2024	ISSUED FOR CONSTRUCTION	TM	-	TH	RP DESCRIPTION NEW LOTS	EMAIL alattuada@cragroup.net.au	STREET LIGHTING 100 IOK
-	-	-	-	-	-	1101-1167 and PARK LOT 9003	COMPANY SAUNDERS HAVILL GROUP	COMMUNICATIONS REFER OPTICOMM
-	-	-	-	-	-	LOT 5000 SP327218	CONTACT TOM GOLDWATER	GAS REFER APA
-	-	-	-	-	-	-	PH:(07)3251 9427	HP GAS REFER APA
-	-	-	-	-	-	-	EMAIL tomgoldwater@saundershavill.com	WATER REFER CIVIL
-	-	-	-	-	-	67	CIVIL ENGINEER (SITE CONTACT)	STORMWATER REFER CIVIL
-	-	-	-	-	-	NO MODIFIED SITES	COMPANY ARCADIS	SEWER REFER CIVIL
-	-	-	-	-	-	UBD REF: MAP GC-37 GRID N19	CONTACT MICHAEL WENZEL	OTHER REFER CIVIL
-	-	-	-	-	-	-	PH:(07)5503 4867	PEGGED? NO
-	-	-	-	-	-	-	EMAIL michael.wenzel@arcadis.com	-

ARCADIS

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Level 35, 111 Eagle Street
Brisbane QLD 4000
ABN 76 104 485 289

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www.arcadis.com

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FOR CONSTRUCTION

DESIGNER: T. MAULEY 01/05/2024 PH: (07)3337 0000
CHECKED: G. JENNINGS 01/06/2024
APPROVED: J. ROWE 11/06/2024

OPTICOMM

REF. No: PHVW-0011
PHONE: 0438 973 566
EMAIL: jgarrow@opticom.com.au
FILENAME: E-11-30063134-C.dwg

ENERGEX

11kV & LV EXTENSION TO NEW SITE
- SITE PLAN, LEGEND, LOCALITY PLAN AND NOTES -

ELECTRICAL & LIGHTING RETICULATION
SKYRIDGE - STAGE 11
SKYRIDGE BLVD, WORONGARY

ARCADIS WORKSPLAN VERSION 2.3

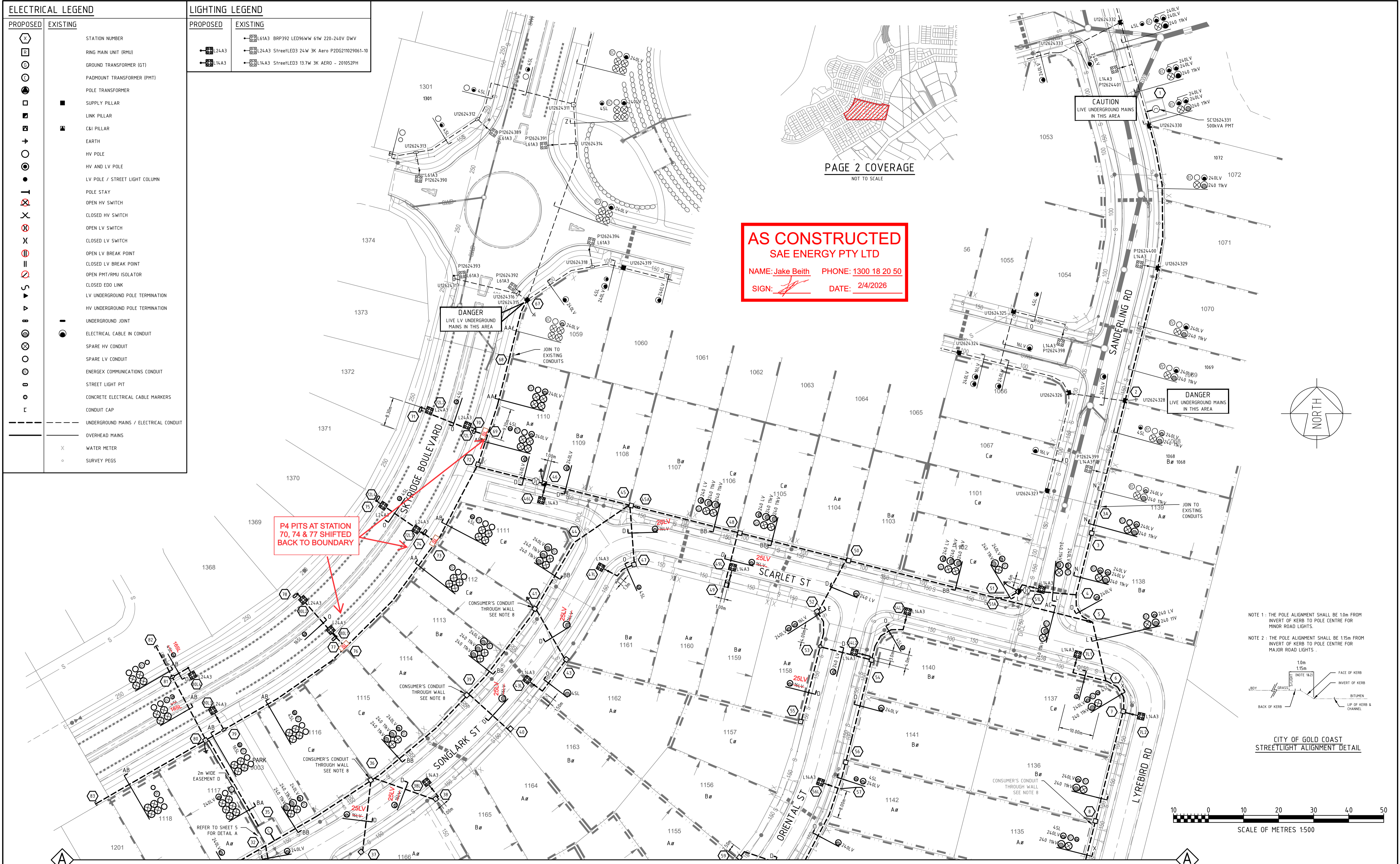
SCALE: NTS @ A1
PROJECT / SUB PROJECT NO.
S4600140

SHEET 1 OF 7

Drawing No. E-11-01
Project No. 30063134
Issue C

ELECTRICAL LEGEND	
PROPOSED	EXISTING
	STATION NUMBER
	RING MAIN UNIT (RMU)
	GROUND TRANSFORMER (GT)
	PADMOUNT TRANSFORMER (PMT)
	POLE TRANSFORMER
	SUPPLY PILLAR
	LINK PILLAR
	C&I PILLAR
	EARTH
	HV POLE
	HV AND LV POLE
	LV POLE / STREET LIGHT COLUMN
	POLE STAY
	OPEN HV SWITCH
	CLOSED HV SWITCH
	OPEN LV SWITCH
	CLOSED LV SWITCH
	OPEN LV BREAK POINT
	CLOSED LV BREAK POINT
	OPEN PMT/RMU ISOLATOR
	CLOSED EDD LINK
	LV UNDERGROUND POLE TERMINATION
	HV UNDERGROUND POLE TERMINATION
	UNDERGROUND JOINT
	ELECTRICAL CABLE IN CONDUIT
	SPARE HV CONDUIT
	SPARE LV CONDUIT
	EMERGEX COMMUNICATIONS CONDUIT
	STREET LIGHT PIT
	CONCRETE ELECTRICAL CABLE MARKERS
	CONDUIT CAP
	UNDERGROUND MAINS / ELECTRICAL CONDUIT
	OVERHEAD MAINS
	WATER METER
	SURVEY PEGS

LIGHTING LEGEND	
PROPOSED	EXISTING
	L61A3 BRP392 LED96W 61W 220-240V DWV
	L24A3 StreetLED3 24W 3K Aero P2D21029061-10
	L14A3 StreetLED3 13.7W 3K AERO - 201052PH



AS CONSTRUCTED
SAE ENERGY PTY LTD
 NAME: Jake Beith PHONE: 1300 18 20 50
 SIGN: [Signature] DATE: 2/4/2026

NOTE 1: THE POLE ALIGNMENT SHALL BE 10m FROM INVERT OF KERB TO POLE CENTRE FOR MINOR ROAD LIGHTS.
 NOTE 2: THE POLE ALIGNMENT SHALL BE 15m FROM INVERT OF KERB TO POLE CENTRE FOR MAJOR ROAD LIGHTS.

CITY OF GOLD COAST
STREETLIGHT ALIGNMENT DETAIL

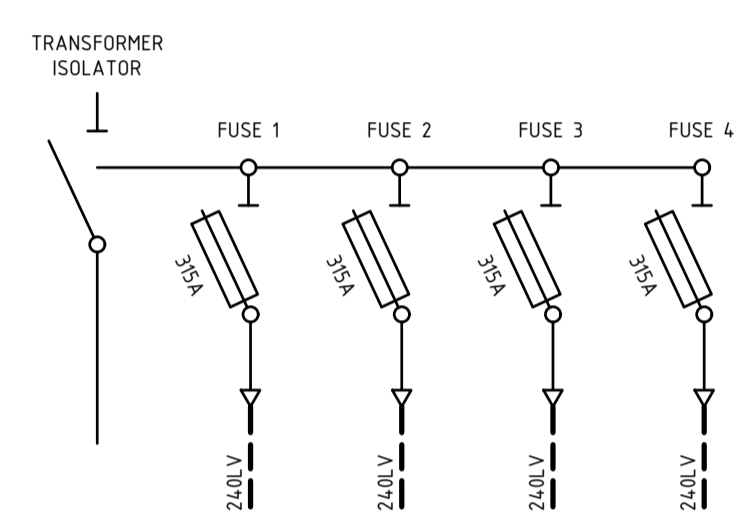
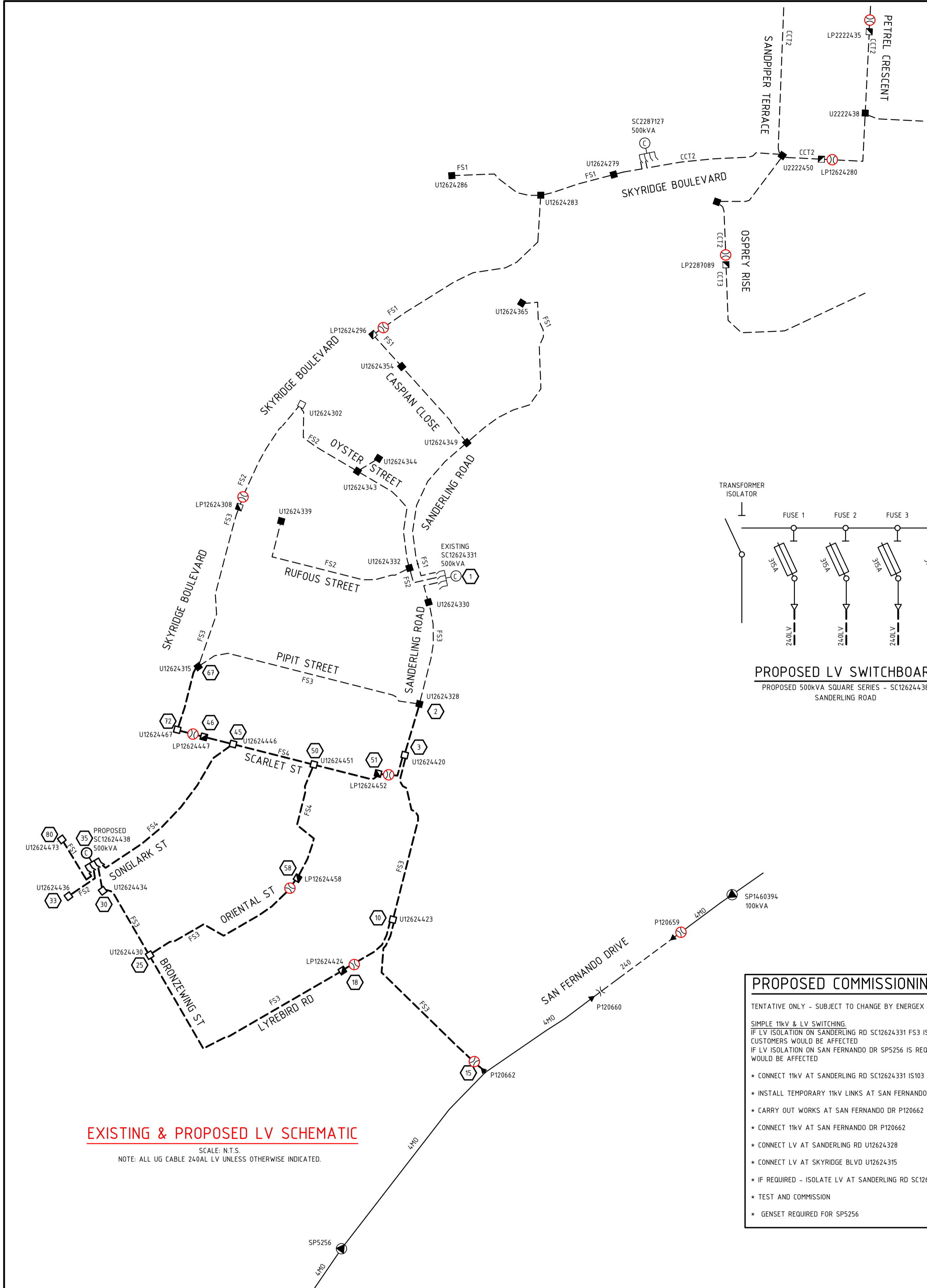
ISSUE	DATE	REMARKS	DFT	CHKD	APVDO	LOCAL AUTHORITY	DEVELOPER	ALIGNMENTS	FOR CONSTRUCTION	ENERGEX	ARCADIS WORKSPAN VERSION 2.3
A	11/06/2024	FOR APPROVAL	MD	GJ	JR	COUNCIL	CRA GROUP	ENERGEX OH	FOR CONSTRUCTION	ENERGEX	ARCADIS WORKSPAN VERSION 2.3
B	10/09/2024	MODIFIED TO ENERGEX REQUIREMENTS	TM	JR	JR	CITY OF GOLD COAST	ALEX LATTUADA	ENERGEX UG	FOR CONSTRUCTION	11kV & LV EXTENSION TO NEW SITE	SCALE: 1:500 @ A1
C	21/11/2024	ISSUED FOR CONSTRUCTION	TM	-	TH	COM/2022/28	alattuada@cragroup.net.au	STREET LIGHTING	FOR CONSTRUCTION	- SITE PLAN 1 -	PROJECT / SUB PROJECT NO.
-	-	-	-	-	-	RP DESCRIPTION	SURVEYOR	100 IOK	FOR CONSTRUCTION	ELECTRICAL & LIGHTING RETICULATION	S4600140
-	-	-	-	-	-	1101-1167 and PARK LOT 9003	SAUNDERS HAVILL GROUP	REFER OPTICOMM	FOR CONSTRUCTION	SKYRIDGE - STAGE 11	SHEET 2 OF 7
-	-	-	-	-	-	LOT 5000 SP327218	TOM GOLDWATER	GAS	FOR CONSTRUCTION	SKYRIDGE BLVD, WORONGARY	Drawing No. E-11-02
-	-	-	-	-	-	CANCELLING PART LOTS	PH:(07)3251 9427	HP GAS	FOR CONSTRUCTION	-	Project No. 30063134
-	-	-	-	-	-	67	tomgoldwater@saundershavill.com	REFER APA	FOR CONSTRUCTION	-	Issue C
-	-	-	-	-	-	NO. OF NEW LOTS	PH:(07)5503 4847	WATER	FOR CONSTRUCTION	-	-
-	-	-	-	-	-	NO MODIFIED SITES	PH:(07)5503 4847	REFER CIVIL	FOR CONSTRUCTION	-	-
-	-	-	-	-	-	UBD REF.	PH:(07)5503 4847	SEWER	FOR CONSTRUCTION	-	-
-	-	-	-	-	-	MAP GC-37 GRID N19	PH:(07)5503 4847	STORMWATER	FOR CONSTRUCTION	-	-
-	-	-	-	-	-	-	PH:(07)5503 4847	REFER CIVIL	FOR CONSTRUCTION	-	-
-	-	-	-	-	-	-	PH:(07)5503 4847	OTHER	FOR CONSTRUCTION	-	-
-	-	-	-	-	-	-	PH:(07)5503 4847	PEGGED?	FOR CONSTRUCTION	-	-
-	-	-	-	-	-	-	PH:(07)5503 4847	NO	FOR CONSTRUCTION	-	-

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 www.arcadis.com

FOR CONSTRUCTION
 DESIGNER: T. McAULEY 01/05/2024 PH: (07)3337 0000
 CHECKED: G. JENNINGS 01/06/2024
 APPROVED: J. ROWE 11/06/2024
 OPTICOMM
 REF. No: PHVW-0011
 PHONE: 0438 973 566
 EMAIL: jarrow@opticom.com.au
 FILENAME: E-11-30063134-C.dwg

ENERGEX
 11kV & LV EXTENSION TO NEW SITE
 - SITE PLAN 1 -
 ELECTRICAL & LIGHTING RETICULATION
 SKYRIDGE - STAGE 11
 SKYRIDGE BLVD, WORONGARY

ARCADIS WORKSPAN VERSION 2.3
 SCALE: 1:500 @ A1
 PROJECT / SUB PROJECT NO.
S4600140
 SHEET 2 OF 7
 Drawing No. E-11-02 Project No. 30063134 Issue C



PROPOSED LV SWITCHBOARD
PROPOSED 500kVA SQUARE SERIES - SC12624338
SANDERLING ROAD

PROPOSED COMMISSIONING PLAN
TENTATIVE ONLY - SUBJECT TO CHANGE BY ENERGEX OUTAGE COORDINATOR.
SIMPLE 11kV & LV SWITCHING.
IF LV ISOLATION ON SANDERLING RD SC12624331 FS3 IS REQUIRED, 20 CUSTOMERS WOULD BE AFFECTED
IF LV ISOLATION ON SAN FERNANDO DR SP5256 IS REQUIRED, 19 CUSTOMERS WOULD BE AFFECTED

- CONNECT 11kV AT SANDERLING RD SC12624331 IS103
- INSTALL TEMPORARY 11kV LINKS AT SAN FERNANDO DR P120662
- CARRY OUT WORKS AT SAN FERNANDO DR P120662
- CONNECT 11kV AT SAN FERNANDO DR P120662
- CONNECT LV AT SANDERLING RD U12624328
- CONNECT LV AT SKYRIDGE BLVD U12624315
- IF REQUIRED - ISOLATE LV AT SANDERLING RD SC12624331 FS3
- TEST AND COMMISSION
- GENSET REQUIRED FOR SP5256

POLE LABEL AT SAN FERNANDO DR - P120662

LABEL SIZE	SITE LOCATION FOR ATTACHING OF LABEL	LABEL INFORMATION
300x100	POLE No.: P120662 LOCATION: SAN FERNANDO DR	11KV CABLE TO SONGLARK ST - SC1262438 IS103 LV CABLE TO SANDERLING RD SC12624331 / SCARLET ST LP12624447 / SKYRIDGE BLVD LP12624308 / SANDERLING RD LP12624452 / LYREBIRD RD LP12624424 & SERVICES

SEPERATE LABEL

REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969

LABEL AT SANDERLING RD - SC12624331

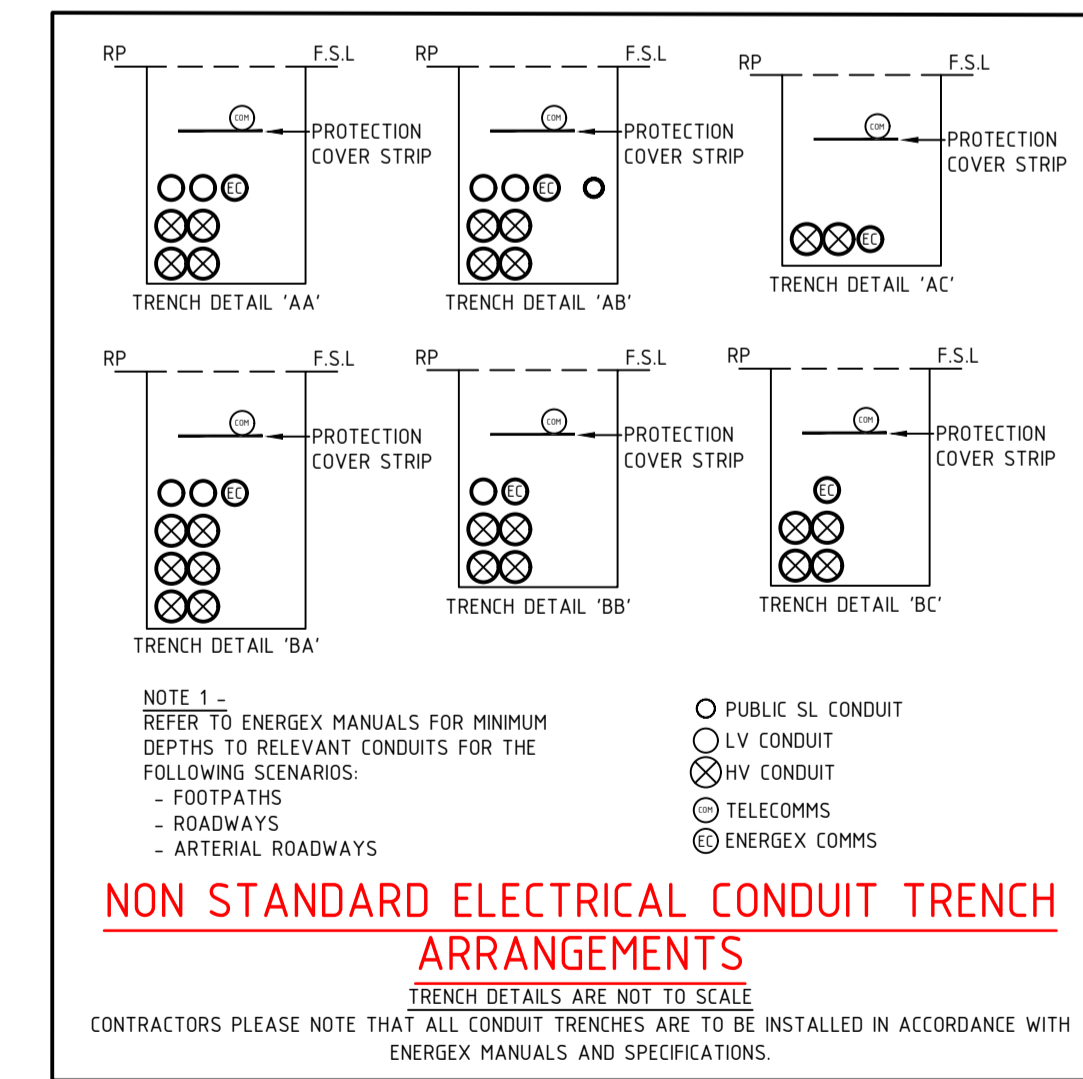
CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL LOCATION
TFMR ISOLATOR	80x35	WB	6	TRANSFORMER ISOLATOR
1	80x35	WB	5	EXISTING LABEL TO REMAIN
2	80x35	WB	5	EXISTING LABEL TO REMAIN
3	80x35	WB	5	TO SAN FERNANDO DR P120662 / SKYRIDGE BLVD LP12624308 / SCARLET ST LP12624447 / SANDERLING RD LP12624452 / LYREBIRD RD LP12624424 & SERVICES
4	80x35	WB	5	EXISTING LABEL TO REMAIN

REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969

LABEL AT SONGLARK ST - SC12624438

CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL LOCATION
TFMR ISOLATOR	80x35	WB	6	TRANSFORMER ISOLATOR
1	80x35	WB	5	TO SKYRIDGE BLVD U12624473 & SERVICES
2	80x35	WB	5	TO SONGLARK ST U12624436 & SERVICES
3	80x35	WB	5	TO ORIENTAL ST LP12624458 / LYREBIRD RD LP12624424 & SERVICES
4	80x35	WB	5	TO ORIENTAL ST LP12624447 / SANDERLING RD LP12624452 & SERVICES

REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969



LABEL AT SKYRIDGE BLVD - LP12624308

CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL LOCATION
1 (LHS)	150x50	WB	5	EXISTING LABEL TO REMAIN
2 (RHS)	150x50	WB	5	TO SANDERLING RD SC12624331 / SAN FERNANDO DR P120662 / SCARLET ST LP12624447 / SANDERLING RD LP12624452 / LYREBIRD RD LP12624424 & SERVICES

REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969

LABEL AT SCARLET ST - LP12624447

CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL LOCATION
1 (LHS)	150x50	WB	5	TO SANDERLING RD SC12624331 / SAN FERNANDO DR P120662 / SKYRIDGE BLVD LP12624308 / SANDERLING RD LP12624452 / LYREBIRD RD LP12624424 & SERVICES
2 (RHS)	150x50	WB	5	TO SONGLARK ST SC12624438 / ORIENTAL ST LP12624458 / SANDERLING RD LP12624452 & SERVICES

REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969

LABEL AT SANDERLING RD - LP12624452

CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL LOCATION
1 (LHS)	150x50	WB	5	TO SONGLARK ST SC12624438 / ORIENTAL ST LP12624458 / SCARLET ST LP12624447 & SERVICES
2 (RHS)	150x50	WB	5	TO SANDERLING RD SC12624331 / SAN FERNANDO DR P120662 / SKYRIDGE BLVD LP12624308 / SCARLET ST LP12624447 / LYREBIRD RD LP12624424 & SERVICES

REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969

LABEL AT ORIENTAL ST - LP12624458

CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL LOCATION
1 (LHS)	150x50	WB	5	TO SONGLARK ST SC12624438 / SANDERLING RD LP12624452 / SCARLET ST LP12624447 & SERVICES
2 (RHS)	150x50	WB	5	TO SONGLARK ST SC12624438 / LYREBIRD RD LP12624424 & SERVICES

REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969

LABEL AT LYREBIRD RD - LP12624424

CIRCUIT NO.	LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL LOCATION
1 (LHS)	150x50	WB	5	TO SONGLARK ST SC12624438 / ORIENTAL ST LP12624452 & SERVICES
2 (RHS)	150x50	WB	5	TO SANDERLING RD SC12624331 / SAN FERNANDO DR P120662 / SKYRIDGE BLVD LP12624308 / SCARLET ST LP12624447 / SANDERLING RD LP12624452 & SERVICES

REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969

EXISTING & PROPOSED LV SCHEMATIC

SCALE: N.T.S.
NOTE: ALL UG CABLE 240AL LV UNLESS OTHERWISE INDICATED.

AS CONSTRUCTED
SAE ENERGY PTY LTD
NAME: Jake Beith PHONE: 1300 18 20 50
SIGN: [Signature] DATE: 21/4/2026

ISSUE	DATE	REMARKS	DFT	CHKD	APVD	LOCAL AUTHORITY	DEVELOPER	ALIGNMENTS
A	11/06/2024	FOR APPROVAL	MD	GJ	JR	COUNCIL CITY OF GOLD COAST	COMPANY CRA GROUP	ENERGEX OH EXISTING
B	10/09/2024	MODIFIED TO ENERGEX REQUIREMENTS	TM	JR	JR	COM/2022/28	CONTACT ALEX LATTUADA	ENERGEX UG 0-900mm
C	21/11/2024	ISSUED FOR CONSTRUCTION	TM	-	TH	RP DESCRIPTION	EMAIL alafuata@cragroup.net.au	STREET LIGHTING 100 IOK
-	-	-	-	-	-	NEW LOTS	COMPANY SAUNDERS HAVILL GROUP	COMMUNICATIONS REFER OPTICOMM
-	-	-	-	-	-	1101-1167 and PARK LOT 9003	CONTACT TOM GOLDWATER PH:(07)3251 9427	GAS REFER APA
-	-	-	-	-	-	LOT 5000 SP327218	CONTACT tomgoldwater@saundershavill.com	HP GAS REFER APA
-	-	-	-	-	-	-	EMAIL tomgoldwater@saundershavill.com	WATER REFER CIVIL
-	-	-	-	-	-	67	CIVIL ENGINEER (SITE CONTACT)	STORMWATER REFER CIVIL
-	-	-	-	-	-	NO OF NEW LOTS	COMPANY ARCADIS	SEWER REFER CIVIL
-	-	-	-	-	-	92	CONTACT MICHAEL WENZEL PH:(07)5503 4847	OTHER REFER CIVIL
-	-	-	-	-	-	NO MODIFIED SITES	EMAIL michael.wenzel@arcadis.com	PEGGED? NO
-	-	-	-	-	-	UBD REF. MAP GC-37 GRID N19		

COMPANY	CONTACT	EMAIL	PHONE
SAUNDERS HAVILL GROUP	TOM GOLDWATER	tomgoldwater@saundershavill.com	PH:(07)3251 9427
CIVIL ENGINEER (SITE CONTACT)	MICHAEL WENZEL	michael.wenzel@arcadis.com	PH:(07)5503 4847

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FOR CONSTRUCTION

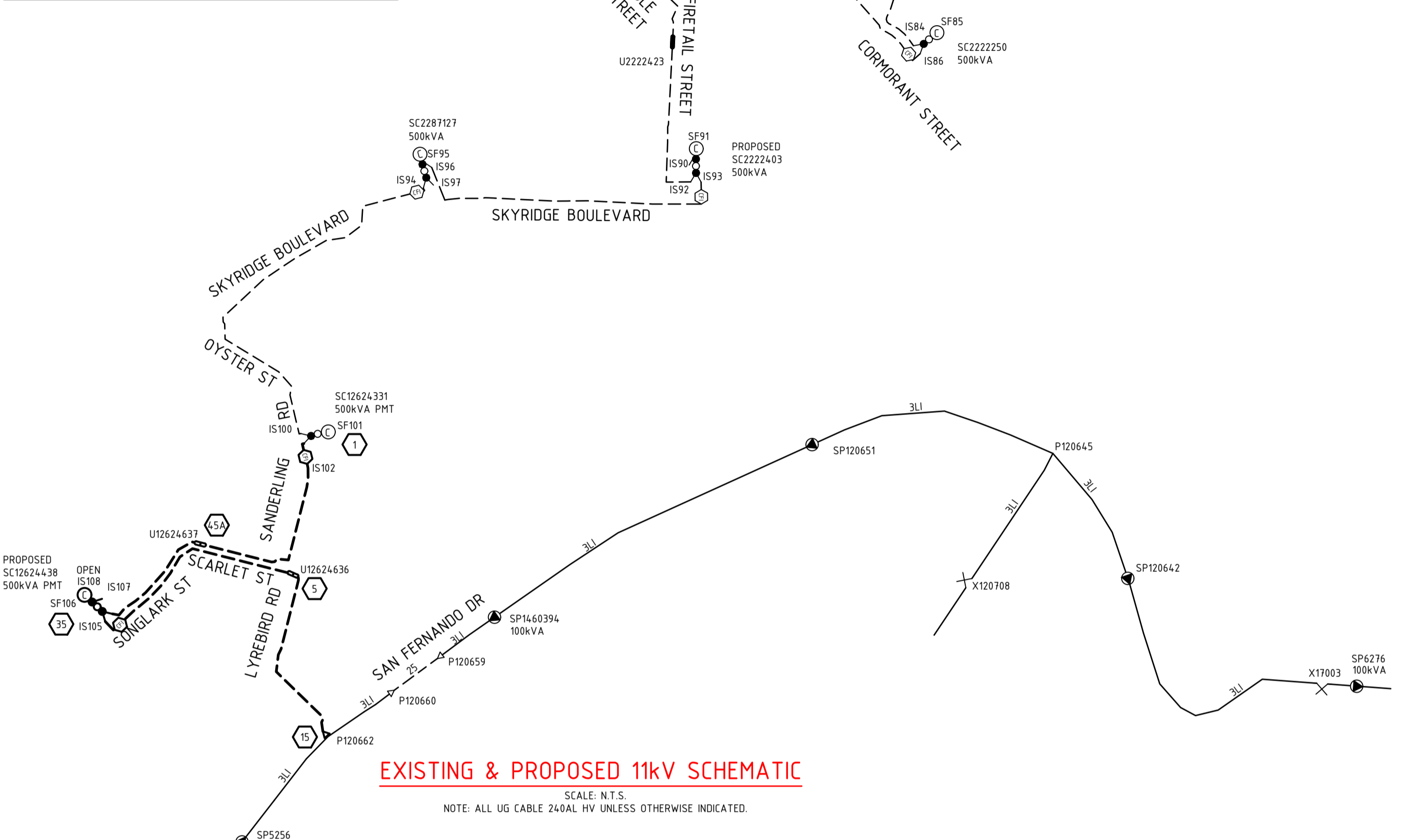
DESIGNER: T. MAULEY	01/05/2024	PH: (07)3337 0000
CHECKED: G. JENNINGS	01/06/2024	
APPROVED: J. ROWE	11/06/2024	
REF. No: PHVW-0011	PHONE: 0438 973 566	EMAIL: jgarrow@opticomm.com.au
FILENAME: E-11-30063134-C.dwg		

ENERGEX
11kV & LV EXTENSION TO NEW SITE
- LV GEOGRAPHIC, LABELS, COMMISSION PLAN, TRENCH DETAILS -
ELECTRICAL & LIGHTING RETICULATION
SKYRIDGE - STAGE 11
SKYRIDGE BLVD, WORONGARY

ARCADIS WORKSPLAN VERSION 2.3
SCALE: NTS @ A1
PROJECT / SUB PROJECT NO.
S4600140
SHEET 4 OF 7
Drawing No. E-11-04 Project No. 30063134 Issue C

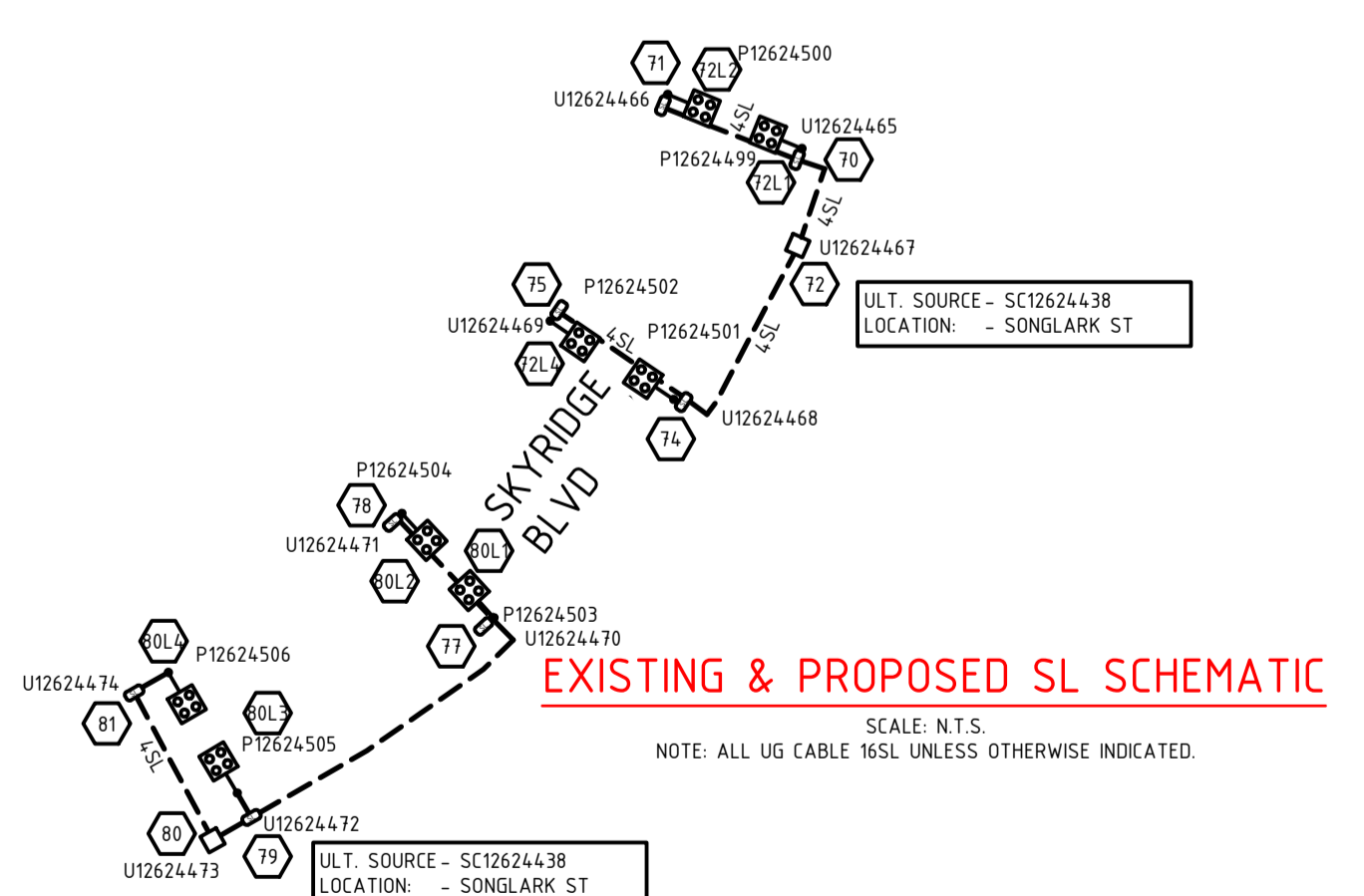
PROPOSED COMMISSIONING PLAN

- TENTATIVE ONLY - SUBJECT TO CHANGE BY ENERGENX OUTAGE COORDINATOR
- SIMPLE 11kV & LV SWITCHING**
 IF LV ISOLATION ON SANDERLING RD SC12624331 FS3 IS REQUIRED, 20 CUSTOMERS WOULD BE AFFECTED
 IF LV ISOLATION ON SAN FERNANDO DR SP5256 IS REQUIRED, 19 CUSTOMERS WOULD BE AFFECTED
- CONNECT 11kV AT SANDERLING RD SC12624331 IS103
 - INSTALL TEMPORARY 11kV LINKS AT SAN FERNANDO DR P120659
 - CARRY OUT WORKS AT SAN FERNANDO DR P120662
 - CONNECT 11kV AT SAN FERNANDO DR P120662
 - CONNECT LV AT SANDERLING RD U12624328
 - CONNECT LV AT SKYRIDGE BLVD U12624315
 - IF REQUIRED - ISOLATE LV AT SANDERLING RD SC12624331 FS3
 - TEST AND COMMISSION
 - GENSET REQUIRED FOR SP5256



STREET LIGHT CIRCUITS RATE 2

LOCATION	END OF CIRCUIT STN No.	VOLTAGE DROP (Vd)	FAULT LOOP (Ω)
SKYRIDGE BLVD	72L2	1.04	0.484
	72L4	0.35	0.675
	80L2	0.46	0.363
	80L4	0.26	0.326



LABEL AT SONGLARK ST - SC12624438

LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION				LABEL LOCATION	LABEL DESCRIPTION
150x40	WB	20					FRONT	RMU IDENTIFICATION
50x20	BLUE W	10					FRONT	DESIGN IDENTIFICATION
150x40	WB	15	IS105	SF106	IS107	IS108	NEAR ISOLATOR	ISOLATOR IDENTIFICATION
150x40	BW	20					FRONT	FEEDER IDENTIFICATION
150x50	BW	10	TO SAN FERNANDO DR P120662	TO TRANSFORMER	TO SANDERLING RD SC12624331 IS102	SPARE	CABLE BOX	CABLE DESTINATION
150x50	BW	10	TO SAN FERNANDO DR P120662	TO TRANSFORMER	TO SANDERLING RD SC12624331 IS102	SPARE	INSIDE SIDE WALL	CABLE DESTINATION

REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969

LABEL AT SANDERLING RD - SC12624331

LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION				LABEL LOCATION	LABEL DESCRIPTION
150x40	WB	20					FRONT	RMU IDENTIFICATION
50x20	BLUE W	10					FRONT	DESIGN IDENTIFICATION
150x40	WB	15	IS100	SF101	IS102		NEAR ISOLATOR	ISOLATOR IDENTIFICATION
150x40	BW	20					FRONT	FEEDER IDENTIFICATION
150x50	BW	10	EXISTING LABEL TO REMAIN	EXISTING LABEL TO REMAIN	TO SONGLARK ST SC12624438 IS107		CABLE BOX	CABLE DESTINATION
150x50	BW	10	EXISTING LABEL TO REMAIN	EXISTING LABEL TO REMAIN	TO SONGLARK ST SC12624438 IS107		INSIDE SIDE WALL	CABLE DESTINATION

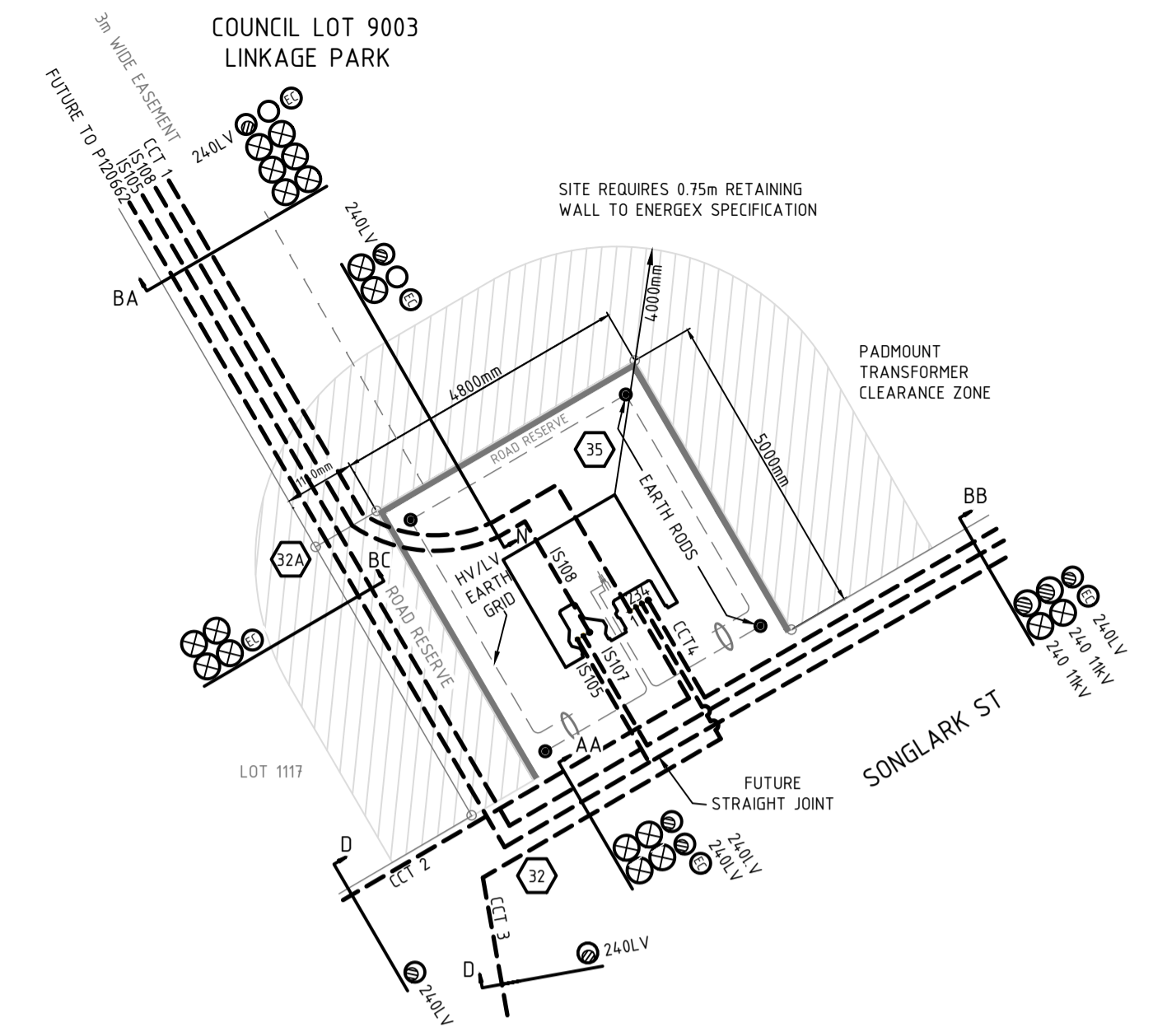
REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969

POLE LABEL AT SAN FERNANDO DR - P120662

LABEL SIZE	SITE LOCATION FOR ATTACHING OF LABEL	LABEL INFORMATION
300x100	POLE No.: P120662 LOCATION: SAN FERNANDO DR	HV CABLE TO SONGLARK ST - SC12624438 IS105 LV CABLE TO SANDERLING RD SC12624331 / SCARLET ST LP12624447 / SKYRIDGE BLVD LP12624308 / SANDERLING RD LP12624452 / LYREBIRD RD LP12624424 & SERVICES

REFER JOINT STANDARD FOR NETWORK LABELLING & SIGNAGE MANUAL RED01969

SEPERATE LABEL



AS CONSTRUCTED
 SAE ENERGY PTY LTD
 NAME: Jake Beith PHONE: 1300 18 20 50
 SIGN: DATE: 2/4/2026

RATE 2 LIGHTING SCHEDULE

LOCATION	STN. No.	SITE I.D. (POLE No.)	POLE or COMPONENTS						LUMINAIRE						OUTREACH BRACKET			MOUNTING HGT. (m)	REMARKS									
			COMP. I.D.	EX. (m)	REC. (m)	ER. (m)	C.U. LISTING/ MODEL No.	ALIGN. (m)	COMP. I.D.	EX.	REC. LUMIN.	CUST. CUST.	DATE DE-ENERGISED	ERECT LUMIN.	CUST. CUST.	DATE ENERGISSED	C.U. LISTING / MODEL No.			EX.	REC.	ER.						
SCARLET ST	7L1	P12624475	P01				6.5 BPM	SB6505CI	10 IOK	SL1																		
	LYREBIRD RD	7L2	P12624476	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC													
		8L	P12624477	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC													
		10L	P12624478	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC													
		18L	P12624479	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC													
BRONZEWING ST	19L	P12624480	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	20L	P12624481	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	23L	P12624482	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	24L	P12624483	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	25L	P12624484	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
SONGLARK ST	27L	P12624485	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	30L	P12624486	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	38L	P12624487	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	43L	P12624488	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
SCARLET ST	47L	P12624489	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	46L	P12624490	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	49L	P12624491	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	54L1	P12624492	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	55L	P12624493	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
SANDERLING RD	54L2	P12624494	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	56L	P12624495	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	61L	P12624496	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	63L	P12624497	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
SKYRIDGE BLVD	66L	P12624498	P01				6.5 BPM	SB6505CI	10 IOK	SL1			L14A3L2	GCCC														
	72L1	P12624499	P01				5.5 BPM	SB75115CI	10 IOK	SL2			L24A3L2	GCCC														
	72L2	P12624500	P01				5.5 BPM	SB75115CI	10 IOK	SL3			L24A3L2	GCCC														
	72L3	P12624501	P01				5.5 BPM	SB75115CI	10 IOK	SL4			L24A3L2	GCCC														
	72L4	P12624502	P01				5.5 BPM	SB75115CI	10 IOK	SL5			L24A3L2	GCCC														
	80L1	P12624503	P01				5.5 BPM	SB75115CI	10 IOK	SL6			L24A3L2	GCCC														
	80L2	P12624504	P01				5.5 BPM	SB75115CI	10 IOK	SL7			L24A3L2	GCCC														
	80L3	P12624505	P01				5.5 BPM	SB75115CI	10 IOK	SL8			L24A3L2	GCCC														
80L4	P12624506	P01				5.5 BPM	SB75115CI	10 IOK	SL9			L24A3L2	GCCC															

NOTE: OFFSET ALIGNMENTS: N.F.K - NOMINAL FACE KERB, B.O.K - BACK OF KERB, I.O.K - INVERT OF KERB, E.O.B - EDGE OF BITUMEN, E.O.C - EDGE OF CONCRETE, RP - PROPERTY RP BOUNDARY

ISSUE	DATE	REMARKS	DFT	CHKD	APVD	LOCAL AUTHORITY	DEVELOPER	ALIGNMENTS
A	11/06/2024	FOR APPROVAL	MD	GJ	JR	COUNCIL CITY OF GOLD COAST	COMPANY CRA GROUP	ENERGENX OH EXISTING
B	10/09/2024	MODIFIED TO ENERGENX REQUIREMENTS	TM	JR	JR	COM/2022/28	CONTACT ALEX LATTUADA	ENERGENX UG 0-900mm
C	21/11/2024	ISSUED FOR CONSTRUCTION	TM	-	TH	RP DESCRIPTION	EMAIL alafuata@cragroup.net.au	STREET LIGHTING 100 IOK
-	-	-	-	-	-	NEW LOTS	SURVEYOR	COMMUNICATIONS REFER OPTICOMM
-	-	-	-	-	-	1101-1167 and PARK LOT 9003	COMPANY SAUNDERS HAVILL GROUP	GAS REFER APA
-	-	-	-	-	-	LOT 5000 SP32718	CONTACT TOM GOLDWATER PH:(07)3251 9427	HP GAS REFER APA
-	-	-	-	-	-	-	EMAIL tomgoldwater@saundershavill.com	WATER REFER CIVIL
-	-	-	-	-	-	67	CIVIL ENGINEER (SITE CONTACT)	STORMWATER REFER CIVIL
-	-	-	-	-	-	NO MODIFIED SITES	COMPANY ARCADIS	SEWER REFER CIVIL
-	-	-	-	-	-	92	CONTACT MICHAEL WENZEL PH:(07)5503 4847	OTHER REFER CIVIL
-	-	-	-	-	-	UBD REF. MAP GC-37 GRID N19	EMAIL michael.wenzel@arcadis.com	PEGGED? NO

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 Brisbane QLD 4000
 ABN 76 104 485 289
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FOR CONSTRUCTION

DESIGNER: T. MCAULEY 01/05/2024 PH: (07)3337 0000
 CHECKED: G. JENNINGS 01/06/2024
 APPROVED: J. ROWE 11/06/2024

OPTICOMM

REF. No: PHWV-0011
 PHONE: 0438 973 566
 EMAIL: agarrow@opticomm.com.au
 FILENAME: E-11-30063134-Cdwg

ENERGENX

11kV & LV EXTENSION TO NEW SITE
 - HV&SL GEOMETRICS, LABELS, COMMISSION PLAN & SL SCHEDULES -

ELECTRICAL & LIGHTING RETICULATION
 SKYRIDGE - STAGE 11
 SKYRIDGE BLVD, WORONGARY

ARCADIS WORKSPLAN VERSION 2.3

SCALE: NTS @ A1
 PROJECT / SUB PROJECT NO.
S4600140

SHEET 5 OF 7

Drawing No. Project No. Issue
 E-11-05 30063134 C

