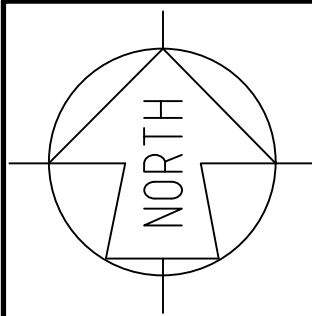






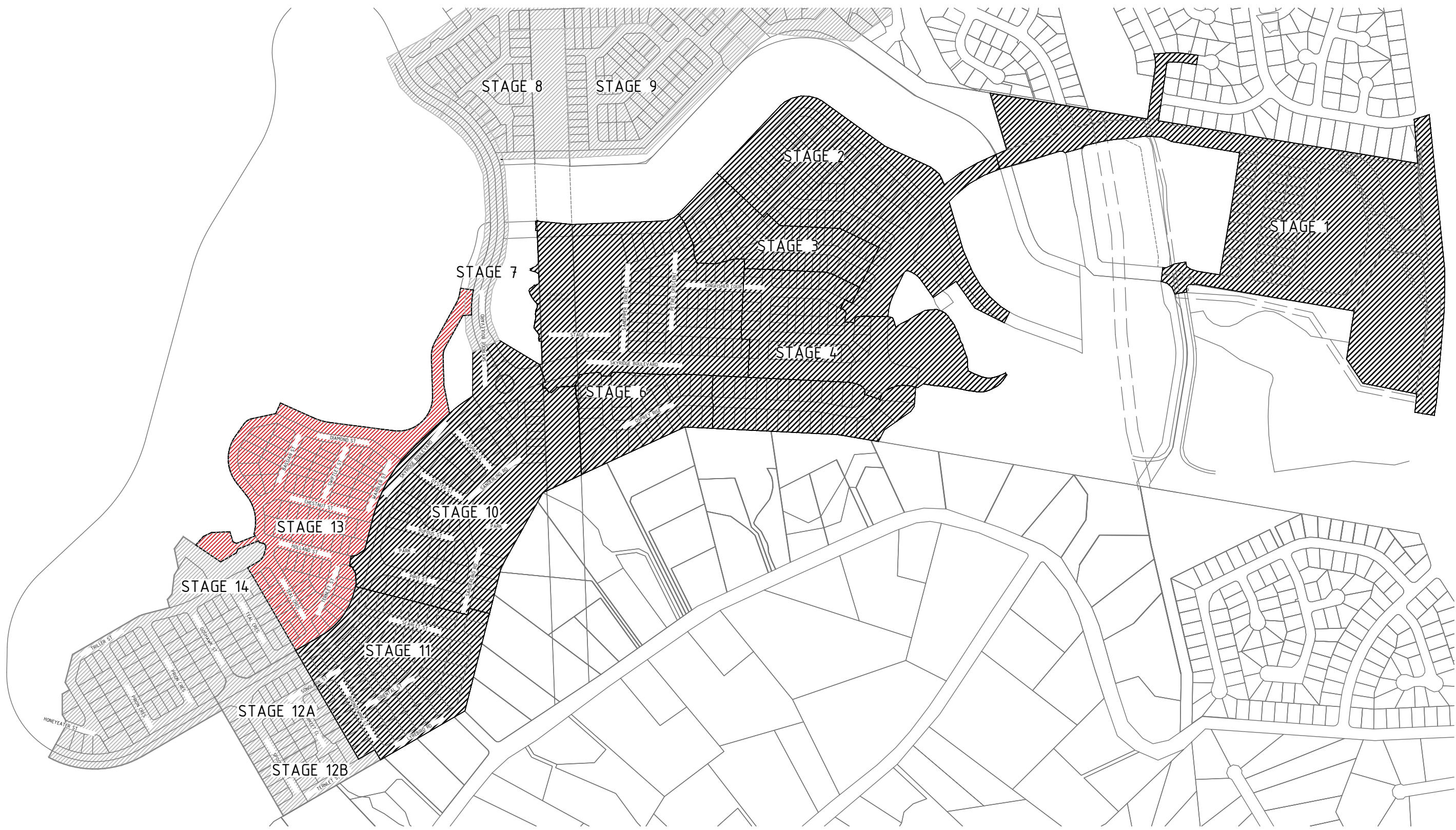
BOARD OF
PROFESSIONAL
ENGINEERS
OF QUEENSLAND

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

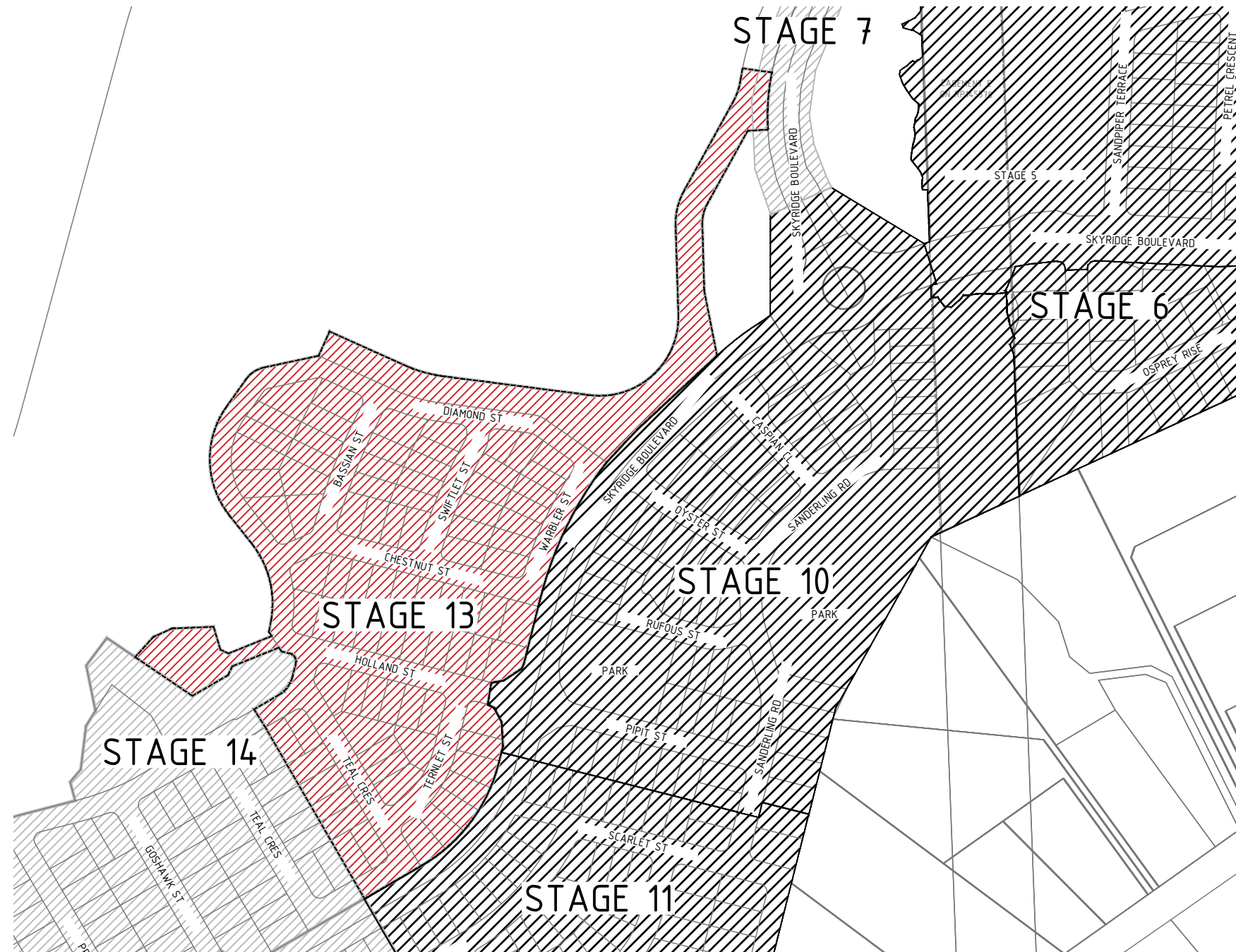
PROJECT FILE: E-13-01-07-30063134

21/01/2025

REGISTERED PROFESSIONAL ENGINEER OF QLD
JAKE ROWE RPEQ NUMBER 25976
DIVISION: ELECTRICAL



LOCALITY PLAN
SCALE: N.T.S.



SITE PLAN
SCALE: N.T.S.

ZERO LOT LINE / DRIVEWAY POSITIONS

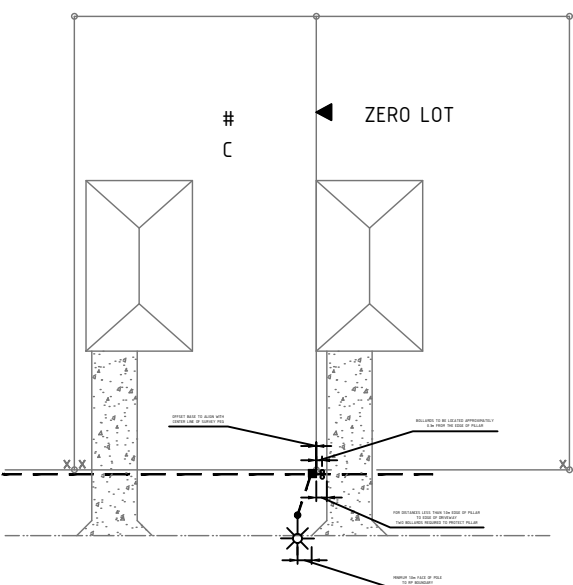
ELECTRICAL PILLARS SHALL BE INSTALLED WITH MINIMUM 10m CLEARANCE FROM FACE OF PILLAR TO EDGE DRIVEWAY. (PROPOSED OR EXISTING).

IF 10m CLEARANCE CANNOT BE ACHIEVED PROTECTIVE BOLLARDS MUST BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH ENERGEX STANDARDS.

STREETLIGHTS SHALL BE INSTALLED WITH AN OFFSET OF 10m 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.



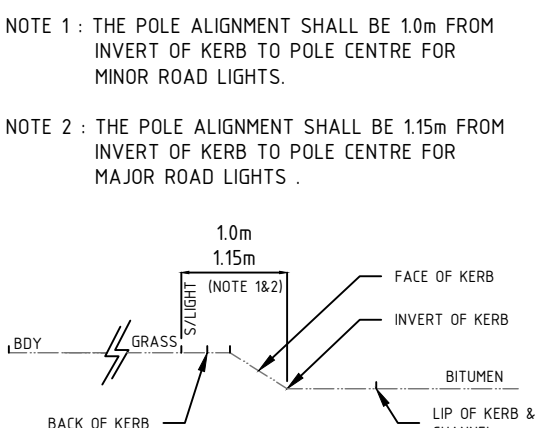
ZERO LOT - DRIVEWAY DETAIL
SCALE: N.T.S.

- R/P BOUNDARY
- KERB LINE
- UNDERGROUND CABLE
- ELECTRICAL PILLAR
- TELECOMMUNICATIONS PIT (NBN Co OR TELSTRA)
- STREET LIGHT
- DRIVEWAY INDICATOR
- WATER METER
- ELECTRICAL PHASE
- LOT NUMBER
- ZERO LOT LINE INDICATOR
- BOLLARD

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:	AGI32, PERFECT LITE					
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	TEAL CRES, TERNLET ST, HOLLAND ST, CHESTNUT ST, DIAMOND ST, BASSIAN ST, WARBLER ST, SWIFLET ST, TRILLER ST					
LIGHTING CATEGORY AND TYPE	PRS L14A3					
CARRIAGEWAY DESIGN WIDTH	14m-16.5m					
MEDIAN WIDTH	NA					
MOUNTING HEIGHT	6.5m					
LIGHTING ARRANGEMENT	1					
OUTREACH	0.5m					
POLE SETBACK	100m I.O.K.					
UPCAST ANGLE	0°					
MAXIMUM COMPLIANT SPACING	57.9m					
CURVE SPACING ADJUSTMENT: INSIDE OF CURVE MAXIMUM COMPLIANT (RC = RADIUS CURVE)	RC 265m MC 315m					
LUMINAIRE/LAMP DETAILS: (REFER AS/NZS 1158.1.3 SECTION 3)						
LUMINAIRE IDENTIFICATION	SYLVANIA SCHREDER					
Lamp Type	L14A3					
LAMP FLUX	1815lm±					
L-TABLE NUMBER	STREETLED3 13.7W 3K AERO - 201052PH					
LIGHTING TARIFF	RATE 2					
POWER FACTOR HIGH/LOW	HPF (≥0.90)					
START/RUN	0.06A					
NATA CERTIFIED PHOTOMETRIC DATA ORIGIN	SYLVANIA					
P CATEGORY LIGHT TECHNICAL PARAMETERS:						
LIGHTING CATEGORY	E _h (lux)	E _{gh} (lux)	U _{L2}	UWLR (%)	E _{pv} (lux)	Glare control AT 90° cd
PRS	0.05	0.14	10	1	NA	NA

DRAWING LEGEND

- SHEET DRAWING NAME
- COVER PAGE, LOCALITY PLAN, LEGEND AND NOTES
 - SITE PLAN 1
 - SITE PLAN 2
 - LV GEOGRAPHIC, LABELS, COMMISSION PLAN
 - HV GEOGRAPHIC, LABELS, COMMISSION PLAN, DETAILS & SL SCHEDULE
 - CABLE AND EQUIPMENT SCHEDULES
 - CONDUIT SCHEDULES AND MATERIAL LISTS



CITY OF GOLD COAST
STREETLIGHT ALIGNMENT DETAIL

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 (0-900mm FROM THE RP BOUNDARY). 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, 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 HOLING 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.

MAKE -	MODEL -
SERIAL No. -	DATE CABLES CHECKED -
NAME -	ORGANISATION -
CERTIFICATION - (SIGNATURE)	CONTACT No. -

ELECTRICAL LEGEND

PROPOSED	EXISTING
	STATION NUMBER
	RING MAIN UNIT (RMU)
	GROUND TRANSFORMER (GT)
	PADMOUNT TRANSFORMER (PMT)
	POLE TRANSFORMER
	SUPPLY PILLAR
	LINK 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 EOD 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 EAP
	UNDERGROUND MAINS / ELECTRICAL CONDUIT
	OVERHEAD MAINS
	WATER METER
	SURVEY PEGS

LIGHTING LEGEND

PROPOSED	EXISTING
	L14A3 14W SYLVANIA STREETLED3 3K AERO
	L24A3 24W SYLVANIA STREETLED3 3K AERO
	L61A3 BRP392 LED96W 61W 220-240V DNV

ISSUE	DATE	REMARKS	DFT	CHKD	APVD	LOCAL AUTHORITY	DEVELOPER	ALIGNMENTS
A	21/01/2025	FOR APPROVALS	MD	KW	JR	COUNCIL	CRA GROUP	ENERGEX OH EXISTING
B	28/10/2025	ISSUED FOR CONSTRUCTION	TM	-	JR	APPROVAL NO.	CONTACT ALEX LATTUADA	ENERGEX UG 0-900mm
-	-	-	-	-	-	RP DESCRIPTION	EMAIL alafuada@cragroup.net.au	STREET LIGHTING 100 IK0
-	-	-	-	-	-	NEW LOTS	COMPANY SAUNDERS HAVILL GROUP	COMMUNICATIONS REFER OPTICOMM
-	-	-	-	-	-	PARK LOTS 918 & 921	CONTACT TOM GOLDWATER	GAS REFER APA
-	-	-	-	-	-	CANCELLING PART LOTS	PH: (07) 1234 5678	HP GAS REFER APA
-	-	-	-	-	-	LOT 5000 ON SP327218	EMAIL tomgoldwater@saundershavill.com	WATER REFER CIVIL
-	-	-	-	-	-	NO. OF NEW LOTS	CIVIL ENGINEER (SITE CONTACT)	STORMWATER REFER CIVIL
-	-	-	-	-	-	84 (-2 PARK LOTS)	COMPANY ARCADIS	SEWER REFER CIVIL
-	-	-	-	-	-	SITE DETAILS	CONTACT MICHAEL WENZEL	OTHER REFER CIVIL
-	-	-	-	-	-	99	PH: (07)5503 4847	PEGGED? NO
-	-	-	-	-	-	NO MODIFIED SITES	EMAIL michael.wenzel@arcadis.com	
-	-	-	-	-	-	UBD REF.		
-	-	-	-	-	-	MAP DC-37 GRID N19		



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Brisbane QLD 4000
ABN 76 104 485 289

Tel No: +61 7 3337 0000

www.arcadis.com

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FOR CONSTRUCTION

PLANNER	T. MCAULEY	08/01/2025	PH: (07) 3337 0000
DESIGNER	T. MCAULEY		
CHECKED	K. WILLIAMS	13/01/2025	
APPROVED	J. ROWE	21/01/2025	
OPTICOMM			
REF. No	PHVW-0013		
PHONE	0438 973 566		
EMAIL	agarrow@opticom.net.au		
FILENAME	E-03-13-30063134-B.dwg		

ENERGEX

11kV & LV EXTENSION TO NEW SITE
- COVER PAGE, LOCALITY PLAN, LEGEND AND NOTES -
ELECTRICAL & LIGHTING RETICULATION
SKYRIDGE - STAGE 13
SKYRIDGE BLVD WORONGARY
-

ARCADIS WORKSPLAN VERSION 2.5

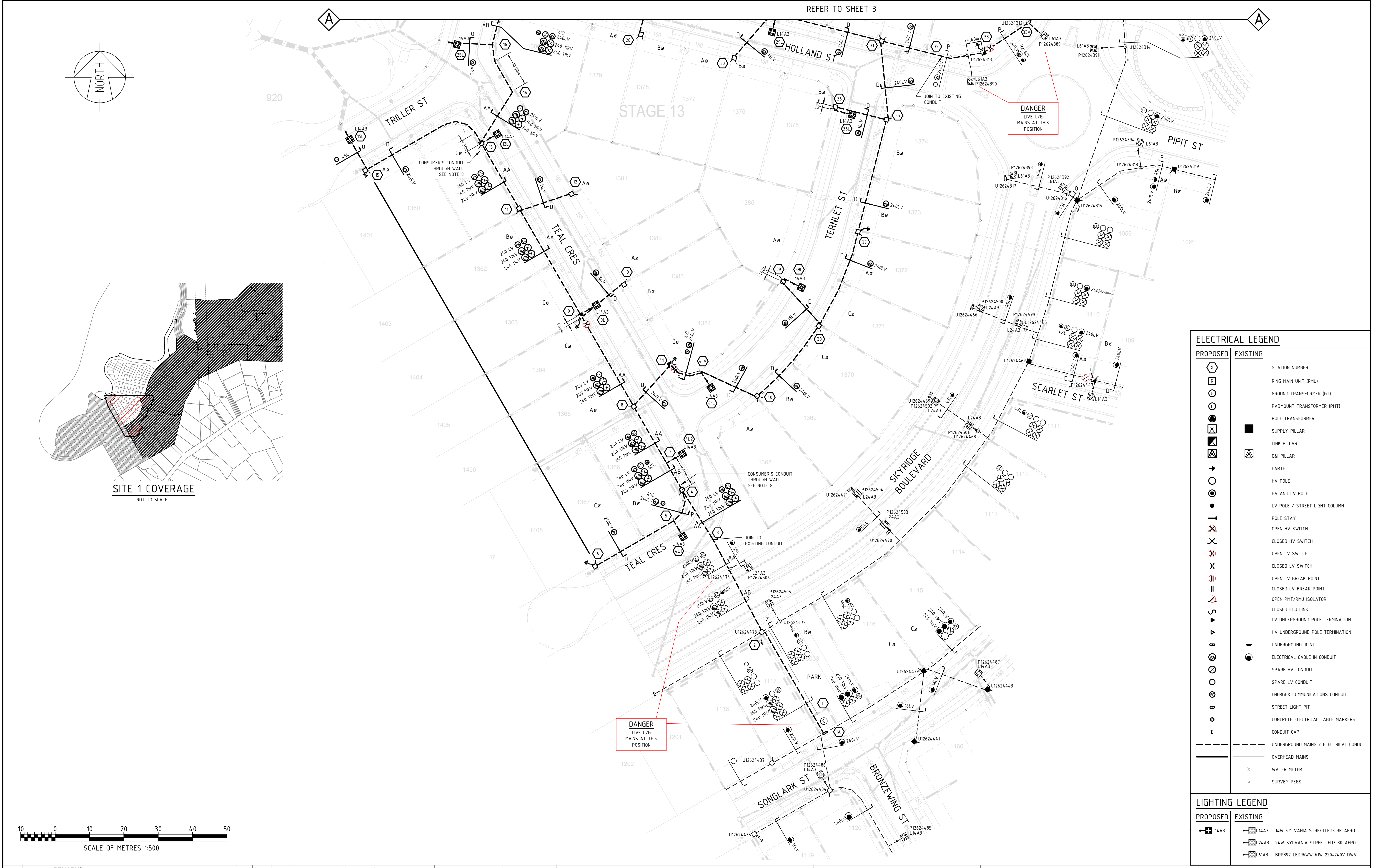
SCALE: NTS @A1

PROJECT / SUB PROJECT NO.

S4600145

SHEET 1 OF 7

Drawing No.	Project No.	Issue
E-13-01	30063134	B



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 EDO 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
	14W	14W SYLVANIA STREETLED3 3K AERO
	24W	24W SYLVANIA STREETLED3 3K AERO
	61W	BRP392 LED96W 6TW 220-240V DWV

ISSUE	DATE	REMARKS	DFT	CHKD	APVD	LOCAL AUTHORITY	DEVELOPER	ALIGNMENTS	FOR CONSTRUCTION		ENERGEX		ARCADIS WORKSPLAN VERSION 2.5
A	21/01/2025	FOR APPROVALS	MD	KW	JR	COUNCIL	CRA GROUP	ENERGEX OH					
B	28/10/2025	ISSUED FOR CONSTRUCTION	TM	-	JR	APPROVAL NO.	ALEX LATTUADA	ENERGEX UG	PLANNER T. MCAULEY 08/01/2025 PH: (07) 3337 0000		11kV & LV EXTENSION TO NEW SITE - SITE PLAN 1 -		SCALE: 1:500 @ A1
-	-	-	-	-	-	RP DESCRIPTION	SAUNDERS HAVILL GROUP	STREET LIGHTING 100 IQK					
-	-	-	-	-	-	NEW LOTS	TOM GOLDWATER	COMMUNICATIONS REFER TO COMMS	DESIGNER T. MCAULEY 13/01/2025		ELECTRICAL & LIGHTING RETICULATION SKYRIDGE - STAGE 13 SKYRIDGE BLVD WORONGARY		PROJECT / SUB PROJECT NO. S4600145
-	-	-	-	-	-	CANCELLING PART LOTS	PH: (07) 3251 9479	GAS REFER APA					
-	-	-	-	-	-	LOT 5000 ON SP327218	PH: (07) 5503 4847	HP GAS REFER APA	APPROVED J. ROWE 21/01/2025		SHEET 2 OF 7		Drawing No. E-13-02
-	-	-	-	-	-	NO. OF NEW LOTS	PH: (07) 5503 4847	WATER REFER CIVIL					
-	-	-	-	-	-	SITE DETAILS	PH: (07) 5503 4847	SEWER REFER CIVIL	OPTICOMM		SKYRIDGE BLVD WORONGARY		Project No. 30063134
-	-	-	-	-	-	99	PH: (07) 5503 4847	OTHER REFER CIVIL					
-	-	-	-	-	-	UBD REF.	PH: (07) 5503 4847	PEGGED? NO	REF No. PHVW-0013		-		Issue B
-	-	-	-	-	-	MAP GC-37 GRID N19	PH: (07) 5503 4847	NO					

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