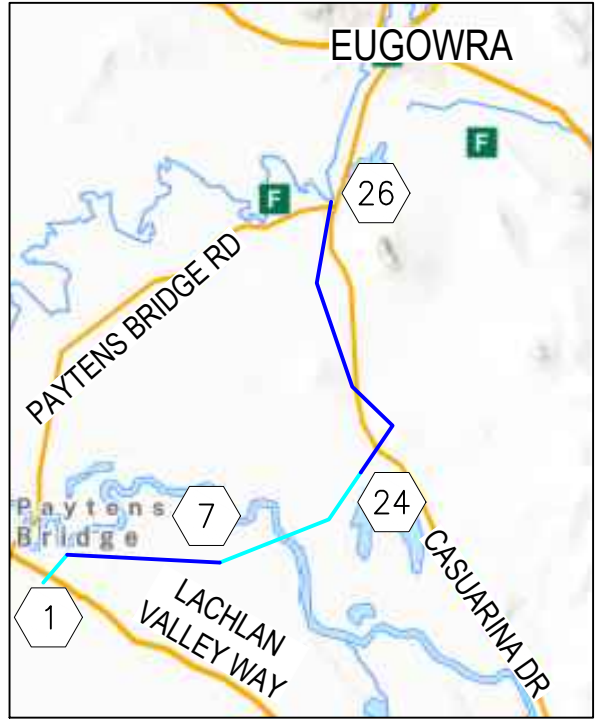


EUGOWRA SOLAR FARM COVERSHEET



LEGEND	
	CADASTRE LOT/ROAD BOUNDARIES
	CONDUCTOR OH 11kV - NEW
	CONDUCTOR OH 11kV - EXISTING
	WORKSITE BOUNDARY
	WORKS LOCATION

DRAWING SCHEDULE		
ECN-103890_1	SH1	ELECTRICAL RETICULATION - COVERSHEET, GENERAL NOTES & DRAWING SCHEDULE
ECN-103890_2	SH2	ELECTRICAL RETICULATION - WORKSITE 1 & 3 SITE PLAN AND CONSTRUCTION SCHEDULE
ECN-103890_3	SH3	ELECTRICAL RETICULATION - WORKSITE 2 SITE PLAN AND CONSTRUCTION SCHEDULE
ECN-103890_4	SH4	ELECTRICAL RETICULATION - CONDUCTOR STRINGINGS SCHEDULES
ECN-103890_5	SH5	ELECTRICAL RETICULATION - HV SCHEMATIC & NEARA GROUND CLEARANCE PROFILES

- GENERAL NOTES:
- THE INTENDED PURPOSE OF THIS PLAN IS THAT OF A CONSTRUCTION DRAWING DEPICTING ELECTRICAL RETICULATION REQUIREMENTS. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 - DIMENSIONS, AREAS & LOT NUMBERS SHOWN ON PLAN ARE APPROXIMATE ONLY & MAY VARY. THE ELECTRICAL DESIGN SHOWN MAY BE SUBJECT TO VARIATION DEPENDING ON SITE CONDITIONS ENCOUNTERED DURING INSTALLATION WORKS. THIS WILL REQUIRE THE WRITTEN APPROVAL OF THE ELECTRICAL DESIGNER WHOSE ACCREDITATION NUMBER APPEARS ON THIS PLAN.
 - ALL PERSONNEL WORKING ON OR NEAR ESSENTIAL ENERGY ASSETS MUST BE CORRECTLY ACCREDITED AND AUTHORISED.
 - CONTRACTOR:-
 - TO CONFIRM LATEST PLAN REVISION PRIOR TO CONSTRUCTION.
 - TO CONFIRM POLE LOCATIONS ACCORDING TO THIS PLAN PRIOR TO CONSTRUCTION.
 - TO CONFIRM LOCATION OF ALL UNDERGROUND ASSETS INCLUDING ESSENTIAL ENERGYS AND ALL OTHER UTILITIES PRIOR TO EXCAVATION.
 - TO FIX ASSET NUMBERS TO POLES.
 - TO CONFIRM CONDUCTOR LENGTHS PRIOR TO ORDERING.
 - SHALL ENSURE THAT SEDIMENT CONTROL & EROSION PREVENTION MEASURES ARE UNDERTAKEN.
 - ALL CONSTRUCTION & MATERIALS TO COMPLY WITH ESSENTIAL ENERGY CURRENT STANDARDS.
 - ALL RECOVERED & DECOMMISSIONED ESSENTIAL ENERGY ASSETS TO BE RETURNED TO NEAREST ESSENTIAL ENERGY DEPOT. CONTACT NETWORK ASSURANCE FACILITATOR TO CONFIRM DEPOT.
 - THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS BEARING THE ESSENTIAL ENERGY CERTIFIED ENDORSEMENT.



REVISION DETAILS	
ISSUE 01	
BY A DESIGNER	
DATE XXXX/2024	
DETAIL PRELIMINARY ISSUE	

PRELIMINARY
NOT FOR CONSTRUCTION



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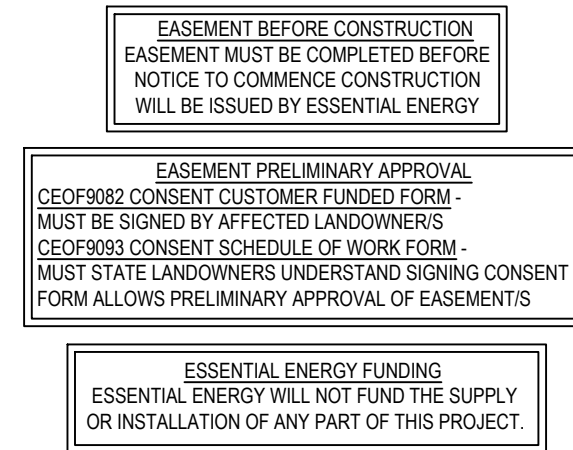
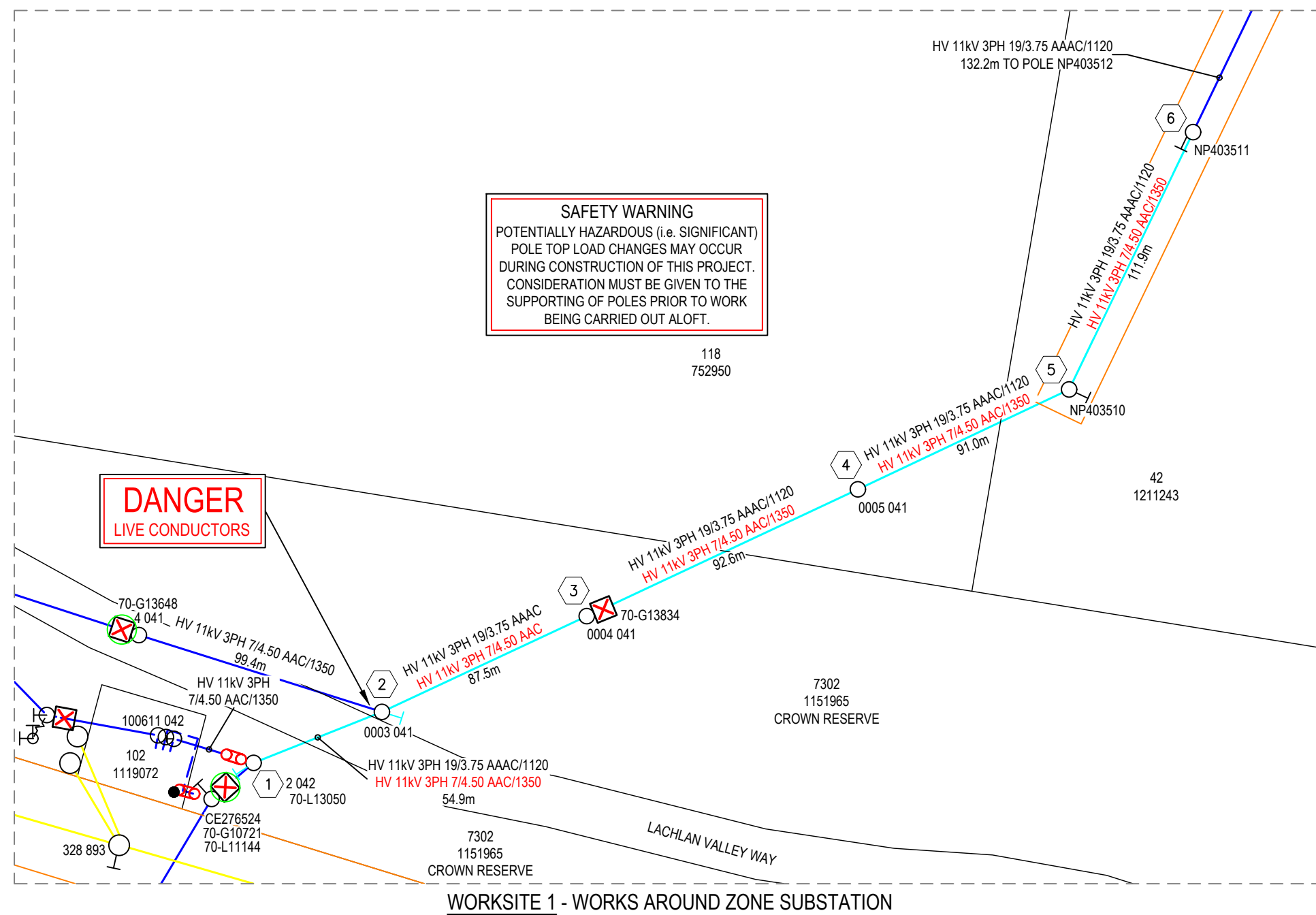
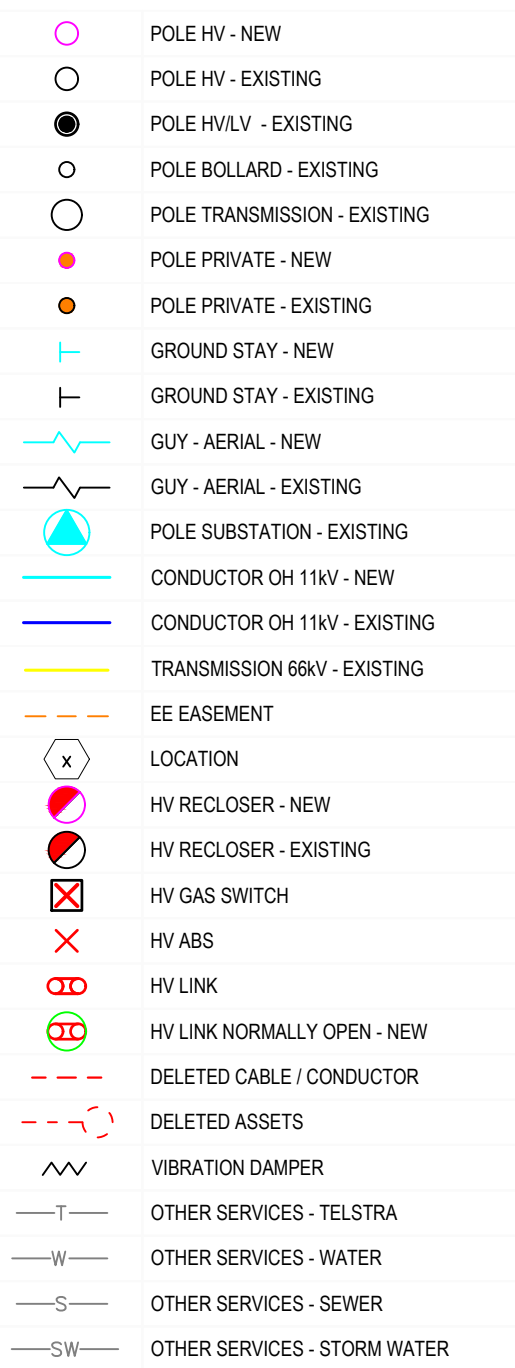
PROJECT
EUGOWRA SOLAR FARM
LOT 42 1211243
LACHLAN VALLEY WAY PAYTENS BRIDGE NSW 2871
ELECTRICAL RETICULATION - MAJOR CONNECTIONS

EE PROJECT No:	ECN-103890
EE CONN APP No:	00270381
EE DIA No:	00270384
SCALE:	1:2000
DRAFTED:	D. PHILIP
CHECKED:	G.DON
APPROVED:	X.LastName
DATE ISSUED:	14/05/2025

mail@preferredenergy.com.au	
L3 ASP ACCRED No: 3479	
PE JOB No: PE0462	SHEET SIZE A1
PLAN No. ECN-103890	REV 01
SHEET: 1 of 5	

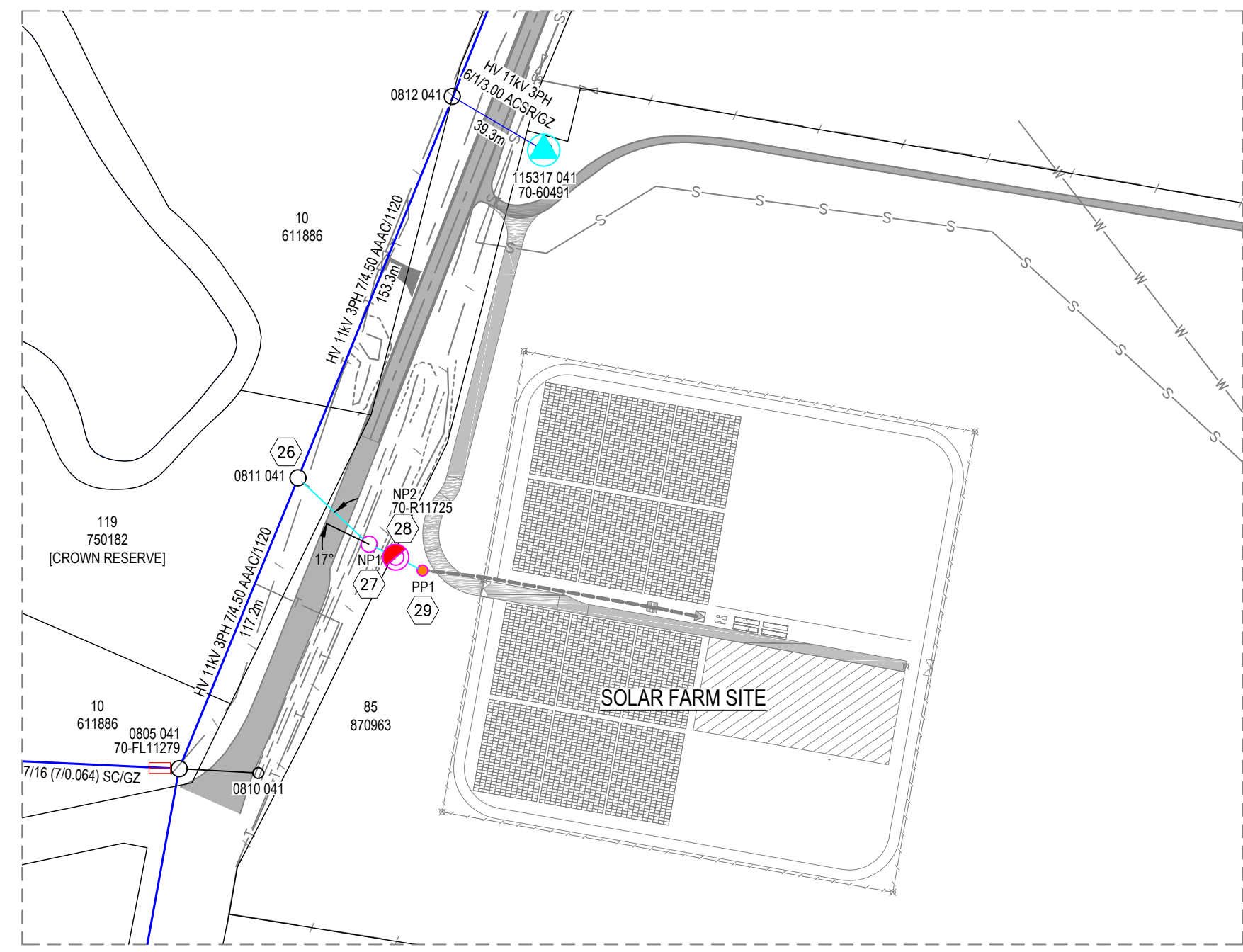
EUGOWRA SOLAR FARM - WORKSITE 1 & 3

LEGEND



CAUTION!
PLEASE REFER BYDA JOB: xxxxxxxx
UG ASSETS IN VICINITY, ALL SERVICES TO BE
LOCATED PRIOR TO ANY EXCAVATION WORKS

WARNING
"DIAL BEFORE YOU DIG" SITE LOCATIONS ARE
ONLY VALID FOR 30 DAYS AFTER : xxx/xx/xxxx
IF THIS TIME FRAME HAS ELAPSED PLEASE
APPLY FOR NEW INFORMATION.
THIS MAY TAKE UP TO 10 DAYS.



OVERHEAD CONSTRUCTION SCHEDULE - WORKSITE 1						
Site No.	Asset Label	Standard Drawing No.	Assembly No.	Status	Asset Type	Construction Notes
1	2 042			Existing Remove		EXISTING 12.5m 8kN WOOD POLE RECOVER 3PH 11kV STEEL STRAIN X'ARM INSTALL 3PH 11kV FLAT STRAIN 2.4m FG2 COMPOSITE X'ARM - FLAT CONSTRUCTION TO AVOID AMENDING SPAN INTO ZONE SUBSTATION (NON CONTESTABLE WORK) EXISTING 3PH 11kV FLAT TERM X'ARM INSTALL SINGLE 19/2.75 SCGZ GROUND STAY GY3 INSULATOR @ 60° INSTALL GALVANISED GROUND ANCHOR ROD WITH 200mm HELIX
2	0003 041			Remove Remove		RECOVER 11m 4kN WOOD POLE & ALL CONSTRUCTIONS RECOVER GROUND STAY - TO BE REPLACED EXISTING 14m 6kN WOOD POLE 2.2m DEEP STABILISED IMPROVED BEARING FOOTING INSTALL 3PH 11kV SMALL DELTA 2.4m F6G3 COMPOSITE X'ARM INSTALL 3PH 11kV FLAT TERMINATION 2.4m FG2 COMPOSITE X'ARM INSTALL SINGLE 19/2.75 SCGZ GROUND STAY GY3 INSULATOR @ 60° INSTALL GALVANISED GROUND ANCHOR ROD WITH 200mm HELIX
3	0004 041			Existing Remove		EXISTING 12.5m 6kN WOOD POLE RECOVER 3PH STEEL FLAT STRAIN X'ARM INSTALL 3PH 11kV FLAT STRAIN 2.4m FG2 COMPOSITE X'ARM - FLAT TO AVOID CHANGING BUCK ARM GAS SWITCH POSITION EXISTING BUCK ARM MOUNTED GAS SWITCH
4	0005 041			Existing Existing		EXISTING 12.5m 4kN WOOD POLE - NO CHANGES EXISTING 3PH 11kV SML DELTA PIN COMPOSITE X'ARM
5	NP403510			Existing Existing Existing		EXISTING 14m 8kN WOOD POLE - NO CHANGES EXISTING 3PH 11kV BISSECT COMPOSITE X'ARM - 2 OFF- TOP TO PEG 6 EXISTING GROUND STAY
6	NP403511			Existing Existing Existing		EXISTING 14m 8kN WOOD POLE - NO CHANGES EXISTING 3PH 11kV LARGE DELTA STRAIN COMPOSITE DOUBLE X'ARM EXISTING GROUND STAY

OVERHEAD CONDUCTOR SCHEDULE - WORKSITE 2									
Site No.	Start Point	Site No.	End Point	Conductor Details	Route Length(m)	Status	Design Tension	MES(m)	Thermal Rating
1	2 042	6	NP403511	REMOVE 3PH 7/4.50 AAC 11kV 'MERCURY'	460	Remove			
				TOTAL LENGTH	460				
	2 042	3	004 041	ERECT 3PH 19/3.75 AAC 11kV 'NEON'	179.7	New	7% CBL 15°C	76.6	7.3m @ 75°C
3	004 041	5	NP403510	ERECT 3PH 19/3.75 AAC 11kV 'NEON'	182.7	New	9% CBL 15°C	91.8	6m @ 75°C
5	NP403510	6	NP403511	ERECT 3PH 19/3.75 AAC 11kV 'NEON'	111.9	New	7% CBL 15°C	111.9	6m @ 75°C
				TOTAL LENGTH	474.3				
	2 042		CE276524	RE-ATTACH 3PH 7/4.50 AAC 11kV 'MERCURY' -MATCH EXISTING TENSION	21.3	Existing	5.3% CBL 15°C	21.3	6m @ 75°C
2	0003 041		4 041	RE-ATTACH 3PH 7/4.50 AAC 11kV 'MERCURY' -INCREASE TENSION	99.4	Existing	8% CBL 15°C	99.4	6m @ 75°C
				TOTAL LENGTH	120.7				

OVERHEAD CONSTRUCTION SCHEDULE - WORKSITE 3						
Site No.	Asset Label	Standard Drawing No.	Assembly No.	Status	Asset Type	Construction Notes
26	0811 041			Existing	EXISTING 12.5m 4kN WOOD POLE	
		CEOM7/101.76	1	Existing	EXISTING 3PH 11kV PM XARM	
		CEOM7/101.76	1	New	Cross Arm	INSTALL 3PH 11kV FLAT TERMINATION 2.4m FG72 COMPOSITE XARM
27	NP3	CEOM7/103.10	10	New	Pole	INSTALL 14m 6kN WOOD POLE
		CEOM7/103.10	S	New		2.2m DEEP STABILISED FOOTING. 600mm AUGER DIAMETER TO BE USED
		CEOM7/101.71	1	New	Cross Arm	INSTALL 3PH 11kV SMALL DELTA STRAN 2.4m FG72 COMPOSITE XARM
	GXXXXXX	CEOM7/105.28	1	New	Load Break Switch Site	INSTALL 11kV GAS SWITCH POLE TOP MOUNTED
		CEOM7/105.29	1	New		MID POLE ACTUATOR
		CEOM7/109.22	1	New	Earth Site	GAS SWITCH EARTHING SYSTEM
		CEOM7/109.22	1	New	Earth Site	INSTALL EARTHING SYSTEM FOR GAS SWITCH
28		CEOM7/114.02	2	New		HV CUSTOMER UNDERGROUND CONNECTION - REFER TO SHEET 3
	NP1	CEOM7/103.10	6	New	Pole	INSTALL 12.5m 6kN WOOD POLE
		CEOM7/103.10	S	New		2.05m DEEP STABILISED FOOTING. 600mm AUGER DIAMETER TO BE USED
		CEOM7/105.10	5	New	OH Switchgear	INSTALL 3PH 22kV RECLOSER STRAN 2.4m FG72 COMPOSITE XARM
	RXXXX	CEOM7/105.03	2	New	Recloser	INSTALL 3PH 22kV RECLOSER <u>WITHOUT</u> TOP MOUNT BY-PASS SWITCH OR LINKS AS PER CEOM7/114.02 SHEET 3. RECLOSER TO BE RC20 CONNECTION FOR GIFTED ASSET.
		CEOM7/109.24	1	New	Earth Site	INSTALL 3PH 22kV RECLOSER AUTO SWITCH EARTHING SYSTEM
29	PPXXXX	CEOM7/103.10	6	New	Pole	INSTALL 12.5m 6kN WOOD POLE - PRIVATE ASSETS - INSTALLED BY OTHERS
		CEOM7/103.10	S	New		2.05m DEEP STABILISED FOOTING. 600mm AUGER DIAMETER TO BE USED
		CEOM7/101.70	1	New	Cross Arm	INSTALL 3PH 22kV SMALL DELTA TERMINATION 2.4m FG72 COMPOSITE XARM
		CEOM7/204.36	1	New		INSTALL 3PH 22kV HV UG/HV CABLE TERMINATION (LINK TOP XARM)
		CEOM7/207.08	1	New		INSTALL UG/HV EARTHING TERMINATION
		CEOM7/207.10	1	New		HV CABLE TERMINATION EARTHING DESIGN
		CEOM7/204.11	1	New		HV CABLE FIXING
		CEOM7/103.01	3	New		INSTALL SINGLE 19/27.5 SCG2 GROUND STAY GY3 INSULATOR @ 45°
		CEOM7/103.13	3	New		INSTALL 200mm SCREW ANCHOR

OVERHEAD CONDUCTOR SCHEDULE - WORKSITE 2								
Site No.	Start Point	Site No.	End Point	Conductor Details	Route Length (m)	Status	Design Tension	Thermal Rating
2	NPXXXXX	3	NPXXXXX	ERECT 3PH 19/3.75 AAC 11kV/NEON	36.2	New	3% CBL 5°C	36.2 7.3m @ 75°C
3	NPXXXXX	4	0811 041	ERECT 3PH 19/3.75 AAC 11kV/NEON	11.2	New	3% CBL 15°C	11.2 6m @ 75°C
TOTAL					1 LENGTH	47.4		

SITE SPECIFIC NOTES

- THE ASSET LOCATIONS SHOWN ON THIS PLAN REFLECT ESSENTIAL ENERGY GRS RECORDS AND SITE OBSERVATIONS. THESE LOCATIONS TO BE CONFIRMED ON SITE & L1T ASP IS TO RECORD ANY DISCREPANCIES SO RECORDS CAN BE ADJUSTED IF NECESSARY.
- THE EIA REVIEW OF ENVIRONMENTAL FACTORS MUST BE TAKEN INTO ACCOUNT BY THE L1T ASP IN CONJUNCTION WITH THIS PLAN. REFER CONTROL MEASURES IN TABLE 4 OF EIA 4.15 (TRANSPORTING TRANSFORMER, 4.21 TRAFFIC, 4.22 VEGETATION, 4.25 BUSHFIRE RISK FACTORS, 4.29 SERVICE UTILITY, 4.32 ACCESS).
- THE L1T ASP MUST REFLECT THE INFORMATION PROVIDED BY EACH RECLOSER FOR PER ESSENTIAL ENERGY REQUIREMENTS, NOTE ANY MAJOR HAZARDS
- ASSET LABELS TO BE INSTALLED AS PER CE0908M2
- ESSENTIAL ENERGY REQUIRES A 20m wide EASEMENT FOR HY OVERHEAD POWERLINES. IF EXISTING ASSET LABELS ARE DAMAGED/NOT LEGIBLE THEY SHALL BE REPLACED. THE L1T ASP SHOULD COMPLETE CE05F312 ASSET & OPERATIONAL. EXISTING LABEL REPLACEMENT ORDER FORM & EMAIL TO aspin@essentialenergy.com.au TO TOR ARRANGE A REPLACEMENT LABEL.
- A PROTECTION STUDY WILL BE COMPLETED BY ESSENTIAL ENERGY'S PLANNING TEAM TO ESTABLISH NEAREST PROTECTED AREAS AND IDENTIFY ANY NEW INSTALL RELOCATIONS TO ACCOMMODATE THE NEW LOAD APPLIED AT THIS SITE. A PLANNING, PROTECTION & POWER QUALITY STUDY OF CE AT R3 RATE WILL BE APPLIED AS PER SECTION 34.5 OF ESSENTIAL ENERGY'S PRICE SCHEDULE FOR ANCILLARY NETWORK SERVICES
- A RECLOSER/REGULATOR COMMISSIONING FEE (PER DEVICE) WILL ALSO BE APPLIED TO COMMISSIONING & MAKE THE APPROPRIATE SETTING CHANGES TO THE DEVICES BY ESSENTIAL ENERGY. THE SUBSTITUTION OF THE RECLOSER WITH THE NEW 20M2 OF ESSENTIAL ENERGY'S PRICE SCHEDULE FOR ANCILLARY NETWORK SERVICES
- ALL COMMISSIONING AND PROTECTION STUDY FEES WILL BE BILLED DIRECTLY TO THE LEVEL 1 ASP
- ONCE THIS PROJECT REACHES THE COMMENCEMENT STAGE, L1T ASP TO SEND AN EMAIL TO CONTACT@ESSENTIALENERGY.COM.AU REQUESTING THAT THE PROTECTED STUDY PROCEED TO BE COMPLETED. THE PROJECT MUST BE COMPLETED AT LEAST 8 WEEKS FROM THE DATE OF REQUEST FOR THIS PROCESS TO BE COMPLETED SUCCESSFULLY
- ONCE RECEIVED THE NEW RECLOSER SHALL BE DELIVERED TO THE DUBBO DEPOT FOR TESTING, PRE-COMMISSIONING WORKS, AND APPLYING OF APPROPRIATE PROTECTION SETTINGS. THE DATE THAT THE RECLOSER SHALL BE MARKED FOR THE ATTENTION OF ADAM TABIAN PHONE 0438 786 583.
- PRIOR TO THE DELIVERY OF THE CRATE THE ASP SHALL CONTACT DEAN BEVERIDGE, 0408 653 580. DEAN WILL BE RESPONSIBLE FOR PROGRAMMING OF THE WORKS. THE ASP SHALL PROVIDE THE PROJECT NUMBER, LOCATION OF WORKS AND EXPECTED DATE OF THE COMMISSIONING SUCH THAT THE RECLOSER CAN BE PROVIDED REGARDING A PICK-UP DATE. ONCE PRE-COMMISSIONING HAS BEEN UNDERTAKEN
- THE CRATE SHALL BE DELIVERED TO THE DUBBO DEPOT AT LEAST 8 WEEKS PRIOR TO THE EXPECTED DATE OF COMMISSIONING AND ANY ASSOCIATED OUTSIDE BOOKING. A RECLOSER COMMISSIONING FEE WILL BE APPLIED TO COMPLETE THE PRE-COMMISSIONING WORKS AND APPLYING OF APPROPRIATE PROTECTION SETTINGS BY ESSENTIAL ENERGY
- REPLACEMENT TECHNICAL SPECIFICATION 2.4 OF ESSENTIAL ENERGY'S PRICE SCHEDULE FOR ANCILLARY NETWORK SERVICES

GENERAL NOTES:

1. THE INTENDED PURPOSE OF THIS PLAN IS THAT OF A CONSTRUCTION DRAWING DEPICTING ELECTRICAL RETICULATION REQUIREMENTS. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.
2. DIMENSIONS, AREAS & LOT NUMBERS SHOWN ON PLAN ARE APPROXIMATE ONLY & MAY VARY. THE ELECTRICAL DESIGN SHOWN MAY BE SUBJECT TO VARIATION DEPENDENT ON SITE CONDITIONS ENCOUNTERED DURING INSTALLATION WORKS. THIS WILL REQUIRE THE WRITTEN APPROVAL OF THE ELECTRICAL DESIGNER WHOSE ACCREDITATION NUMBER APPEARS ON THIS PLAN.
3. ALL PERSONNEL WORKING ON OR NEAR ESSENTIAL ENERGY ASSETS MUST BE CORRECTLY ACCREDITED AND AUTHORISED.
4. CONTRACTOR:-
 - 4.1. TO CONFIRM LATEST PLAN REVISION PRIOR TO CONSTRUCTION.
 - 4.2. TO CONFIRM POLE LOCATIONS ACCORDING TO THIS PLAN PRIOR TO CONSTRUCTION.
 - 4.3. TO CONFIRM LOCATION OF ALL UNDERGROUND ASSETS INCLUDING ESSENTIAL ENERGY'S AND ALL OTHER UTILITIES PRIOR TO EXCAVATION.
 - 4.4. TO FIX ASSET NUMBERS TO POLES.
 - 4.5. TO CONFIRM CONDUCTOR LENGTHS PRIOR TO ORDERING.
 - 4.6. SHALL ENSURE THAT SEDIMENT CONTROL & EROSION PREVENTION MEASURES ARE UNDERTAKEN
5. ALL CONSTRUCTION & MATERIALS TO COMPLY WITH ESSENTIAL ENERGY CURRENT STANDARDS.
6. ALL RECOVERED & DECOMMISSIONED ESSENTIAL ENERGY ASSETS TO BE RETURNED TO NEAREST ESSENTIAL ENERGY DEPOT. CONTACT NETWORK ASSURANCE FACILITATOR TO CONFIRM DEPOT.
7. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS BEARING THE ESSENTIAL ENERGY CERTIFIED ENDORSEMENT.

REVISION DETAILS	
ISSUE	01
BY	A. DESIGNER
DATE	XX/XX/2024
DETAIL	PRELIMINARY ISSUE

PRELIMINARY
NOT FOR CONSTRUCTION



Cabonne Council
Nathan Stubberfield
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PROJECT
EUGOWRA SOLAR FARM
LOT 42 1211243
LACHLAN VALLEY WAY PAYTENS BRIDGE NSW 2871
ELECTRICAL RETICULATION - MAJOR CONNECTIONS

EE PROJECT No:	ECN-103890	 mail@preferredenergy.com.au L3 ASP ACCRD No: 3479
EE CONN APP No:	00270381	
EE DIA No:	00270384	
SCALE:	1:2000	
DRAFTED:	D. PHILIP	
CHECKED:	G.DON	
APPROVED:	X.LastName	PE JOB No. PE462 SHEET SIZE A1
DATE ISSUED:	14/05/2025	PLAN No. ECN-103890 REV 01
		SHEET: 2 of 5

LEGEND

- POLE HV - NEW
- POLE HV - EXISTING
- POLE HV/LV - EXISTING
- POLE BOLLARD - EXISTING
- POLE TRANSMISSION - EXISTING
- POLE PRIVATE - NEW
- POLE PRIVATE - EXISTING
- GROUND STAY - NEW
- GROUND STAY - EXISTING
- GUY - AERIAL - NEW
- GUY - AERIAL - EXISTING
- POLE SUBSTATION - EXISTING
- CONDUCTOR OH 11kV - NEW
- CONDUCTOR OH 11kV - EXISTING
- TRANSMISSION 66kV - EXISTING
- EE EASEMENT
- LOCATION
- HV RECLOSER - NEW
- HV RECLOSER - EXISTING
- HV GAS SWITCH
- HV ABS
- HV LINK
- HV LINK NORMALLY OPEN - NEW
- DELETED CABLE / CONDUCTOR
- DELETED ASSETS
- VIBRATION DAMPER
- OTHER SERVICES - TELSTRA
- OTHER SERVICES - WATER
- OTHER SERVICES - SEWER
- OTHER SERVICES - STORM WATER



OVERHEAD CONSTRUCTION SCHEDULE - WORKSITE 2										
Site No.	Asset Label	Standard Drawing No.	Assembly No.	Status	Asset Type	Construction Notes				
7	NP404069 70-F16115			Remove		RECOVER 14m 8kN WOOD POLE & ALL CONSTRUCTIONS				
				Remove		RECOVER FUSE XARM				
		CEOM7101.03	12	New	Pole	INSTALL 14m 12kN WOOD POLE				
		CEOM7103.10	S	New		2.2m DEEP STABILISED FOOTING, 600mm AUGER DIAMETER TO BE USED				
		CEOM7101.71	1	New	Cross Arm	INSTALL 3PH 11kV SMALL DELTA STRAIN 2.4m FG72 COMPOSITE XARM				
		CEOM7101.70	1	New	Cross Arm	- INSTALL AT 9.4m AGL TO MAINTAIN EXISTING TENSION TO POLE NP404070				
	70-F16115	CEOM7105.51	2	New	OH Switchgear	INSTALL 3PH 11kV TERMINATION & HV FUSE SWITCH ASSEMBLY 2.4m FG72 COMPOSITE XARM				
						- INSTALL AT 7.8m AGL TO MAINTAIN EXISTING TENSION TO POLE 0027 041				
						INSTALL 50A FUSES - L1 TO REVIEW FUSE SIZE DURING WORKS TO ENSURE CORRECT FUSE REPLACEMENT.				
8	0037 041			Existing		EXISTING 14m 6kN WOOD POLE				
				Existing		EXISTING 3PH 11kV STD DELTA PIN COMPOSITE XARM				
9	0038 041			Existing		EXISTING 14m 6kN WOOD POLE - NO CHANGES				
				Existing		EXISTING 3PH 11kV STD DELTA PIN COMPOSITE XARM				
10	0039 041			Existing		EXISTING 14m 6kN WOOD POLE - NO CHANGES				
		CEOM7106.01		Existing		EXISTING 3PH 11kV STD DELTA PIN COMPOSITE XARM				
11	0040 041			Existing		EXISTING 14m 6kN WOOD POLE - NO CHANGES				
		CEOM7106.01		Existing		EXISTING 3PH 11kV STD DELTA PIN COMPOSITE XARM				
12	0041 041			Existing		EXISTING 14m 6kN WOOD POLE				
		CEOM7106.01		Existing		EXISTING 3PH 11kV SML DELTA STRAIN COMPOSITE XARM				
				New		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR BOTH DIRECTIONS - 6 OFF - Cat. No. 283380				
				Remove		RECOVER 192.00 SCGZ GROUND STAY				
		CEOM7103.01	3	New		INSTALL SINGLE 192.75 SCGZ GROUND STAY GY3 INSULATOR @ 45°				
		CEOM7103.13	3	New		INSTALL GALVANISED GROUND ANCHOR ROD WITH 200mm HELIX				
13	0047 041			Remove		RECOVER 11m 4kN WOOD POLE & ALL CONSTRUCTIONS				
		CEOM7101.03	10	New	Pole	INSTALL 14m 8kN WOOD POLE				
		CEOM7103.10	S	New		2.2m DEEP STABILISED FOOTING, 600mm AUGER DIAMETER TO BE USED				
		CEOM7101.57	1	New	Cross Arm	INSTALL 3PH 11kV STANDARD DELTA 2.4m FG63 COMPOSITE XARM				
		CEOM7106.01		New		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR BOTH DIRECTIONS - 6 OFF - Cat. No. 283380				
14	0048 041			Remove		RECOVER 11m 4kN WOOD POLE & ALL CONSTRUCTIONS				
		CEOM7101.03	10	New	Pole	INSTALL 14m 6kN WOOD POLE				
		CEOM7103.10	P	New		2.2m DEEP PLAIN FOOTING				
		CEOM7101.57	1	New	Cross Arm	INSTALL 3PH 11kV STANDARD DELTA 2.4m FG63 COMPOSITE XARM				
		CEOM7106.01		New		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR BOTH DIRECTIONS - 6 OFF - Cat. No. 283380				
15	0049 041			Remove		RECOVER 14m 6kN WOOD POLE & ALL CONSTRUCTIONS				
		CEOM7101.03	12	New	Pole	INSTALL 14m 12kN WOOD POLE - SUNK DEEP				
		CEOM7103.10	S	New		3.0m DEEP STABILISED FOOTING, 600mm AUGER DIAMETER TO BE USED				
		CEOM7101.72	1	New	Cross Arm	INSTALL 3PH 11kV SMALL DELTA BISECT 2.4m FG72 COMPOSITE XARM (TOP ARM TO P17)				
		CEOM7103.03	3	New		INSTALL OVERHEAD STAY 2150mm FROM TOP OF POLE, SINGLE WIRE 192.75 SCGZ WITH GY3				
		CEOM7106.01		New		INSULATOR TO POLE 0050 041 AT PEG 16.				
16	0050 041			Existing		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR BOTH DIRECTIONS - 6 OFF - Cat. No. 283380				
				Remove		EXISTING 11m 6kN WOOD POLE				
				Remove		RECOVER OVERHEAD STAY WIRE TO PEG 15				
				Remove		RECOVER 192.00 SCGZ GROUND STAY				
		CEOM7103.03	3	New		INSTALL OVERHEAD STAY AT EXISTING OVERHEAD STAY ATTACHMENT POINT, 5.87m AGL, SINGLE				
		CEOM7103.01	3	New		WIRE 192.75 SCGZ WITH GY3 INSULATOR TO POLE 0049 041 AT PEG 15.				
17	0051 041			Remove		RECOVER 11m 4kN WOOD POLE & ALL CONSTRUCTIONS				
		CEOM7101.03	10	New	Pole	INSTALL 14m 8kN WOOD POLE				
		CEOM7103.10	P	New		2.2m DEEP PLAIN FOOTING				
		CEOM7101.57	1	New	Cross Arm	INSTALL 3PH 11kV STANDARD DELTA 2.4m FG63 COMPOSITE XARM				
18	0052 041			Remove		RECOVER 11m 4kN WOOD POLE & ALL CONSTRUCTIONS				
		CEOM7101.03	10	New	Pole	INSTALL 14m 8kN WOOD POLE				
		CEOM7103.10	P	New		2.2m DEEP PLAIN FOOTING				
		CEOM7101.57	1	New	Cross Arm	INSTALL 3PH 11kV STANDARD DELTA 2.4m FG63 COMPOSITE XARM				
		CEOM7106.01		New		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR BOTH DIRECTIONS - 6 OFF - Cat. No. 283380				
19	0053 041			Remove		RECOVER 11m 4kN WOOD POLE & ALL CONSTRUCTIONS				
		CEOM7101.03	10	New	Pole	INSTALL 14m 6kN WOOD POLE				
		CEOM7103.10	S	New		2.2m DEEP STABILISED FOOTING, 600mm AUGER DIAMETER TO BE USED				
		CEOM7101.57	1	New	Cross Arm	INSTALL 3PH 11kV STANDARD DELTA 2.4m FG63 COMPOSITE XARM				
		CEOM7106.01		New		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR BOTH DIRECTIONS - 6 OFF - Cat. No. 283380				
20	0054 041			Remove		RECOVER 11m 4kN WOOD POLE & ALL CONSTRUCTIONS				
				Remove		RECOVER GROUND STAY - TO BE REPLACED				
		CEOM7101.03	10	New	Pole	INSTALL 14m 6kN WOOD POLE				
		CEOM7103.10	S	New		2.2m DEEP STABILISED FOOTING, 600mm AUGER DIAMETER TO BE USED				
		CEOM7101.57	1	New	Cross Arm	INSTALL 3PH 11kV STANDARD DELTA 2.4m FG63 COMPOSITE XARM				
		CEOM7106.01		New		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR BOTH DIRECTIONS - 6 OFF - Cat. No. 283380				
21	0056 041			Remove		RECOVER 11m 4kN WOOD POLE & ALL CONSTRUCTIONS				
		CEOM7101.03	10	New	Pole	INSTALL 14m 6kN WOOD POLE				
		CEOM7103.10	P	New		2.2m DEEP PLAIN FOOTING				
		CEOM7101.57	1	New	Cross Arm	INSTALL 3PH 11kV STANDARD DELTA 2.4m FG63 COMPOSITE XARM				
		CEOM7106.01		New		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR BOTH DIRECTIONS - 6 OFF - Cat. No. 283380				
22	0057 041			Remove		RECOVER 11m 6kN WOOD POLE & ALL CONSTRUCTIONS				
		CEOM7101.03	10	New	Pole	INSTALL 14m 8kN WOOD POLE				
		CEOM7103.10	P	New		2.2m DEEP PLAIN FOOTING				
		CEOM7101.57	1	New	Cross Arm	INSTALL 3PH 11kV STANDARD DELTA 2.4m FG63 COMPOSITE XARM				
		CEOM7106.01		New		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR BOTH DIRECTIONS - 6 OFF - Cat. No. 283380				
23	0058 041			Remove		RECOVER 11m 4kN WOOD POLE & ALL CONSTRUCTIONS				
		CEOM7101.03	10	New	Pole	INSTALL 14m 6kN WOOD POLE				
		CEOM7103.10	S	New		2.2m DEEP STABILISED FOOTING, 600mm AUGER DIAMETER TO BE USED				
		CEOM7101.57	1	New	Cross Arm	INSTALL 3PH 11kV STANDARD DELTA 2.4m FG63 COMPOSITE XARM				
		CEOM7106.01		New		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR BOTH DIRECTIONS - 6 OFF - Cat. No. 283380				
24	0059 041			Existing		EXISTING 14m 6kN WOOD POLE - NO CHANGES				
						EXISTING TOP MOUNTED BY-PASS GAS SWITCH				
						EXISTING 3PH 11kV FLAT STRAIN COMPOSITE XARM				
		CEOM7106.01		New		DOGBONE VIBRATION DAMPERS - 1 PER CONDUCTOR TO PEG 11 - 3 OFF - Cat. No. 283380				
		70-R11709							EXISTING RECLOSER LINK ARM	
									EXISTING RECLOSER ASSEMBLY	

OVERHEAD CONDUCTOR SCHEDULE - WORKSITE 2									
Site No.	Start Point	Site No.	End Point	Conductor Details	Route Length(m)	Status	Design Tension	MES(m)	Thermal Rating
7	NP404069	24	0059 041	REMOVE 3PH 19/4.50 AAC 11KV 'MERCURY'	2139.7	Remove			
					TOTAL LENGTH	2139.7			
7	NP404069	12	0041 041	ERECT 3PH 19/3.75 AAAC 11KV 'NEON'	618.3	New	12% CBL 15°C	127.3	6m @ 75°C
12	0041 041	15	0049 041	ERECT 3PH 19/3.75 AAAC 11KV 'NEON'	421.4	New	12% CBL 15°C	141.8	6m @ 75°C
15	0049 041	24	0059 041	ERECT 3PH 19/3.75 AAAC 11KV 'NEON'	1100.0	New	9% CBL 15°C	140.0	6m @ 75°C
					TOTAL LENGTH	2139.7			
7	NP404069		NP404070	RE-ATTACH 3PH 19/3.75 AAAC 11KV 'NEON'	29.9	Existing	10% CBL 15°C	29.9	6m @ 75°C
					- MATCH EXISTING TENSION				
7	NP404069		0027 041	RE-ATTACH 3PH 7/4.50 AAC 11KV 'MERCURY'	79.4	Existing	10% CBL 15°C	111.9	6m @ 75°C
					- MATCH EXISTING TENSION				
7	NP404069		NP404068	RE-ATTACH 3PH 19/3.75 AAAC 11KV 'NEON'	89.8	Existing	8% CBL 15°C	83.6	6m @ 75°C
					RE-ATTACH 1PH 3/2.75 SC/GZ 11KV STEEL				
20	0054 041		0055 041	- MATCH EXISTING TENSION	111.5	Existing	9.7% CBL 15°C	111.5	6m @ 50°C
					TOTAL LENGTH	310.6			

REVISION DETAILS

ISSUE 01

BY A. STUBBERFIELD

DATE XXXXX/2024

DETAIL PRELIMINARY ISSUE

PRELIMINARY
NOT FOR CONSTRUCTION



Cabonne Council
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PROJECT
EUGOWRA SOLAR FARM
LOT 42 1211243
LACHLAN VALLEY WAY PAYTENS BRIDGE NSW 2871
ELECTRICAL RETICULATION - MAJOR CONNECTIONS

EE PROJECT No: ECN-103890
EE CONN APP No: 00270381
EE DIA No: 00270384
SCALE: 1:2000
DRAFTED: D. PHILIP
CHECKED: G.DON
APPROVED: X.LastName
DATE ISSUED: 14/05/2025

Preferred ENERGY
mail@preferredenergy.com.au
L3 ASP ACCRED No: 3479
PE JOB No: PE0462
PLAN No: ECN-103890
SHEET: 3 of 5

REVISION DETAILS
ISSUE 01
BY A DESIGNER
DATE XXXX/2024
DETAIL PRELIMINARY ISSUE

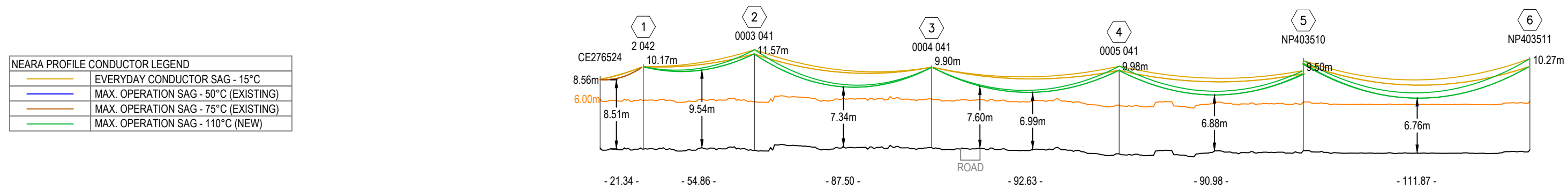
EUGOWRA SOLAR FARM - STRINGING TABLES

WORKSITE 1 STRINGING TABLES															
Type	Ruling Span (m)		Horizontal Tension												
MERCURY 7/4.50	21.27 5.28% @ 15.0°C														
Start Pole	End Pole	Span Length (m)	Temperature (°C)												
C2276524	2 042	21.34													
			Sag (m)	0.06	0.09	0.12	0.15	0.19	0.23	0.27	0.3	0.33	0.36	0.38	0.41
			Horizontal Tension (kN)	2.66	2.02	1.49	1.12	0.89	0.74	0.64	0.57	0.52	0.48	0.45	0.42
			Time (s)	1.37	1.57	1.83	2.11	2.37	2.59	2.78	2.94	3.09	3.21	3.33	3.43
Type	Ruling Span (m)		Horizontal Tension												
NEON 19/3.75	32.48 2.53% @ 15.0°C														
Start Pole	End Pole	Span Length (m)	Temperature (°C)												
2 042	100611 042	32.48													
			Sag (m)	0.46	0.5	0.54	0.58	0.62	0.65	0.68	0.71	0.75	0.77	0.8	0.83
			Horizontal Tension (kN)	1.62	1.49	1.38	1.29	1.21	1.15	1.09	1.04	1	0.96	0.93	0.9
			Time (s)	3.65	3.81	3.96	4.1	4.23	4.34	4.45	4.55	4.65	4.74	4.82	4.91
Type	Ruling Span (m)		Horizontal Tension												
NEON 19/3.75	76.57 7.00% @ 15.0°C														
Start Pole	End Pole	Span Length (m)	Temperature (°C)												
2 042	0003 041	54.86													
			Sag (m)	0.45	0.5	0.55	0.59	0.64	0.68	0.72	0.76	0.8	0.84	0.87	0.91
			Horizontal Tension (kN)	4.7	4.26	3.9	3.6	3.35	3.13	2.95	2.8	2.66	2.55	2.44	2.35
			Time (s)	3.62	3.81	3.98	4.15	4.3	4.44	4.57	4.7	4.82	4.93	5.03	5.13
Start Pole	End Pole	Span Length (m)	Temperature (°C)												
0003 041	0004 041	87.5													
			Sag (m)	1.15	1.27	1.39	1.51	1.62	1.73	1.84	1.94	2.04	2.13	2.23	2.32
			Horizontal Tension (kN)	4.7	4.26	3.9	3.6	3.35	3.13	2.95	2.8	2.66	2.55	2.44	2.35
			Time (s)	5.78	6.08	6.36	6.62	6.86	7.09	7.3	7.5	7.69	7.87	8.03	8.19
Type	Ruling Span (m)		Horizontal Tension												
MERCURY 7/4.50	99.43 8.00% @ 15.0°C														
Start Pole	End Pole	Span Length (m)	Temperature (°C)												
4 041	0003 041	99.44													
			Sag (m)	2.44	2.52	2.6	2.68	2.75	2.83	2.9	2.97	3.04	3.1	3.17	3.24
			Horizontal Tension (kN)	1.51	1.47	1.42	1.38	1.34	1.31	1.28	1.22	1.19	1.17	1.14	1.11
			Time (s)	8.41	8.55	8.68	8.81	8.93	9.05	9.17	9.28	9.38	9.49	9.59	9.68
Type	Ruling Span (m)		Horizontal Tension												
NEON 19/3.75	91.81 9.00% @ 15.0°C														
Start Pole	End Pole	Span Length (m)	Temperature (°C)												
0004 041	0005 041	92.63													
			Sag (m)	0.99	1.09	1.19	1.3	1.4	1.5	1.6	1.7	1.79	1.88	1.97	2.05
			Horizontal Tension (kN)	6.11	5.54	5.05	4.64	4.3	4.01	3.77	3.55	3.37	3.21	3.07	2.94
			Time (s)	5.35	5.62	5.88	6.14	6.39	6.6	6.81	7.02	7.2	7.38	7.55	7.71
Start Pole	End Pole	Span Length (m)	Temperature (°C)												
0005 041	NP403510	90.98													
			Sag (m)	0.96	1.06	1.16	1.26	1.36	1.46	1.56	1.65	1.74	1.83	1.91	2
			Horizontal Tension (kN)	6.11	5.54	5.05	4.64	4.3	4.01	3.77	3.55	3.37	3.21	3.07	2.94
			Time (s)	5.28	5.54	5.8	6.05	6.29	6.51	6.72	6.92	7.11	7.28	7.45	7.61
Type	Ruling Span (m)		Horizontal Tension												
NEON 19/3.75	111.87 7.00% @ 15.0°C														
Start Pole	End Pole	Span Length (m)	Temperature (°C)												
NP403510	NP403511	111.87													
			Sag (m)	2.25	2.35	2.45	2.55	2.64	2.74	2.83	2.91	3	3.08	3.17	3.25
			Horizontal Tension (kN)	3.93	3.76	3.61	3.47	3.35	3.23	3.13	3.04	2.95	2.87	2.8	2.73
			Time (s)	8.07	8.26	8.43	8.6	8.75	8.91	9.05	9.19	9.32	9.45	9.58	9.7

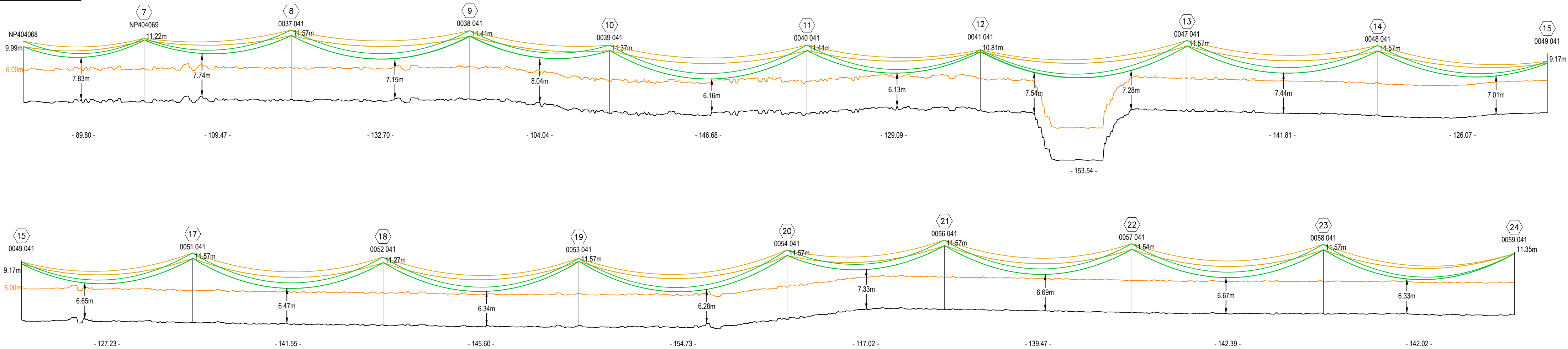
STRINGING TABLES - WORKSITE 2																		
Type	Ruling Span (m)		Horizontal Tension															
MERCURY 7/4.50	111.92 16.73 @ 15.0°C																	
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
NP404069	0027 041	79.37																
			Sag (m)	0.6	0.66	0.72	0.78	0.84	0.9	0.96	1.02	1.08						
			Horizontal Tension (kN)	3.93	3.58	3.28	3.03	2.81	2.62	2.46	2.33	2.21						
			Time (s)	4.18	4.38	4.58	4.77	4.95	5.12	5.28	5.44	5.58						
				5.72	5.85	5.98												
Type	Ruling Span (m)		Horizontal Tension															
NEON 19/3.75	29.82 2.29 @ 15.0°C																	
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
NP404069	NP404070	29.88																
			Sag (m)	0.44	0.48	0.52	0.55	0.59	0.62	0.65	0.68	0.71						
			Horizontal Tension (kN)	1.46	1.34	1.24	1.16	1.09	1.04	0.99	0.95	0.91						
			Time (s)	3.58	3.73	3.88	4.01	4.13	4.24	4.34	4.44	4.53						
				4.61	4.7	4.77												
Type	Ruling Span (m)		Horizontal Tension															
NEON 19/3.75	83.61 8.00 @ 15.0°C																	
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
NP404069	NP404068	88.8																
			Sag (m)	1.05	1.16	1.27	1.38	1.49	1.6	1.7	1.8	1.9						
			Horizontal Tension (kN)	5.44	4.92	4.49	4.12	3.82	3.57	3.36	3.17	3.01						
			Time (s)	5.51	5.8	6.07	6.33	6.58	6.81	7.02	7.23	7.42						
				7.6	7.77	7.95												
Type	Ruling Span (m)		Horizontal Tension															
NEON 19/3.75	127.31 10.00 @ 15.0°C																	
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
NP404069	0037 041	109.47																
			Sag (m)	1.1	1.19	1.28	1.38	1.47	1.57	1.66	1.75	1.84						
			Horizontal Tension (kN)	7.71	7.11	6.58	6.13	5.74	5.39	5.09	4.83	4.6						
			Time (s)	5.64	5.87	6.1	6.32	6.54	6.74	6.94	7.12	7.3						
				7.47	7.63	7.78												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0037 041	0038 041	132.7																
			Sag (m)	1.61	1.75	1.89	2.03	2.17	2.31	2.44	2.58	2.71						
			Horizontal Tension (kN)	7.71	7.11	6.58	6.13	5.74	5.39	5.09	4.83	4.6						
			Time (s)	6.84	7.12	7.4	7.67	7.93	8.18	8.41	8.64	8.86						
				9.06	9.26	9.44												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0038 041	0039 041	104.04																
			Sag (m)	0.99	1.08	1.16	1.25	1.33	1.42	1.5	1.58	1.66						
			Horizontal Tension (kN)	7.71	7.11	6.58	6.13	5.74	5.39	5.09	4.83	4.6						
			Time (s)	5.36	5.59	5.8	6.01	6.22	6.41	6.6	6.77	6.94						
				7.1	7.26	7.44												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0039 041	0040 041	146.68																
			Sag (m)	1.97	2.14	2.31	2.48	2.65	2.82	2.98	3.15	3.31						
			Horizontal Tension (kN)	7.71	7.11	6.58	6.13	5.74	5.39	5.09	4.83	4.6						
			Time (s)	7.56	7.87	8.18	8.48	8.78	9.04	9.3	9.55	9.79						
				10.01	10.23	10.44												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0040 041	0041 041	129.09																
			Sag (m)	1.53	1.66	1.79	1.92	2.05	2.19	2.31	2.44	2.56						
			Horizontal Tension (kN)	7.71	7.11	6.58	6.13	5.74	5.39	5.09	4.83	4.6						
			Time (s)	6.66	6.93	7.2	7.47	7.72	7.96	8.19	8.41	8.62						
				8.82	9.01	9.19												
Type	Ruling Span (m)		Horizontal Tension															
NEON 19/3.75	141.81 12.00 @ 15.0°C																	
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0041 041	0047 041	153.54																
			Sag (m)	2.26	2.42	2.58	2.74	2.9	3.06	3.21	3.36	3.51						
			Horizontal Tension (kN)	7.37	6.68	6.45	6.07	5.74	5.44	5.18	4.95	4.74						
			Time (s)	8.09	8.37	8.65	8.92	9.17	9.42	9.65	9.87	10.09						
				10.29	10.49	10.67												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0047 041	0048 041	141.81																
			Sag (m)	1.93	2.07	2.2	2.34	2.48	2.61	2.74	2.87	3						
			Horizontal Tension (kN)	7.37	6.68	6.45	6.07	5.74	5.44	5.18	4.95	4.74						
			Time (s)	7.47	7.74	7.99	8.24	8.47	8.7	8.92	9.12	9.32						
				9.51	9.69	9.86												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0048 041	0049 041	126.07																
			Sag (m)	1.53	1.64	1.74	1.85	1.96	2.07	2.17	2.27	2.37						
			Horizontal Tension (kN)	7.37	6.68	6.45	6.07	5.74	5.44	5.18	4.95	4.74						
			Time (s)	6.65	6.88	7.11	7.33	7.54	7.74	7.93	8.12	8.29						
				8.46	8.62	8.77												
Type	Ruling Span (m)		Horizontal Tension															
NEON 19/3.75	139.99 9.00 @ 15.0°C																	
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0049 041	0051 041	127.23																
			Sag (m)	2.26	2.37	2.47	2.57	2.67	2.76	2.86	2.95	3.04						
			Horizontal Tension (kN)	5.07	4.85	4.65	4.47	4.3	4.15	4.02	3.89	3.78						
			Time (s)	8.1	8.28	8.46	8.63	8.79	8.95	9.1	9.24	9.38						
				9.52	9.64	9.77												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0051 041	0052 041	141.55																
			Sag (m)	2.79	2.92	3.05	3.17	3.29	3.41	3.52	3.64	3.75						
			Horizontal Tension (kN)	5.07	4.85	4.65	4.47	4.3	4.15	4.02	3.89	3.78						
			Time (s)	9	9.2	9.4	9.59	9.77	9.94	10.11	10.27	10.47						
				10.57	10.71	10.85												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0052 041	0053 041	145.6																
			Sag (m)	2.95	3.09	3.23	3.36	3.48	3.61	3.73	3.85	3.96						
			Horizontal Tension (kN)	5.07	4.85	4.65	4.47	4.3	4.15	4.02	3.89	3.78						
			Time (s)	9.25	9.47	9.67	9.86	10.05	10.23	10.4	10.56	10.72						
				10.87	11.02	11.16												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0053 041	0054 041	154.73																
			Sag (m)	3.34	3.49	3.64	3.79	3.93	4.08	4.21	4.35	4.48						
			Horizontal Tension (kN)	5.07	4.85	4.65	4.47	4.3	4.15	4.02	3.89	3.78						
			Time (s)	9.84	10.06	10.28	10.48	10.68	10.87	11.05	11.22	11.39						
				11.56	11.71	11.86												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0054 041	0056 041	117.02																
			Sag (m)	1.91	2	2.08	2.17	2.25	2.33	2.41	2.49	2.56						
			Horizontal Tension (kN)	5.07	4.85	4.65	4.47	4.3	4.15	4.02	3.89	3.78						
			Time (s)	7.44	7.61	7.77	7.93	8.08	8.22	8.36	8.49	8.61						
				8.74	8.86	8.97												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0056 041	0057 041	139.47																
			Sag (m)	2.71	2.84	2.96	3.08	3.2	3.31	3.42	3.53	3.64						
			Horizontal Tension (kN)	5.07	4.85	4.65	4.47	4.3	4.15	4.02	3.89	3.78						
			Time (s)	8.86	9.07	9.26	9.45	9.62	9.8	9.96	10.12	10.27						
				10.41	10.56	10.69												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0057 041	0058 041	142.39																
			Sag (m)	2.83	2.96	3.08	3.21	3.33	3.45	3.57	3.68	3.79						
			Horizontal Tension (kN)	5.07	4.85	4.65	4.47	4.3	4.15	4.02	3.89	3.78						
			Time (s)	9.05	9.26	9.46	9.64	9.83	10	10.17	10.33	10.48						
				10.63	10.78	10.92												
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0058 041	0059 041	142.02																
			Sag (m)	2.81	2.94	3.07	3.2	3.32	3.44	3.55	3.66	3.77						
			Horizontal Tension (kN)	5.07	4.85	4.65	4.47	4.3	4.15	4.02	3.89	3.78						
			Time (s)	9.03	9.24	9.43	9.62	9.8	9.98	10.15	10.31	10.46						
				10.61	10.75	10.89												
Type	Ruling Span (m)		Horizontal Tension															
STEEL 3/2.75	111.46 9.74 @ 15.0°C																	
Start Pole	End Pole	Span Length (m)	Temperature (°C)															
0054 041	0055 041	111.47																
			Sag (m)	0.78	0.83	0.88	0.93	0.98	1.04	1.09	1.15	1.21						
			Horizontal Tension (kN)	2.7	2.56	2.42	2.29	2.16	2.05	1.94	1.84	1.75						
			Time (s)	4.77	4.9	5.04	5.18	5.33	5.48	5.63	5.78	5.93						
				6.08	6.22	6.37												

EUGOWRA SOLAR FARM - NEARA PROFILES & HV SCHEMATIC

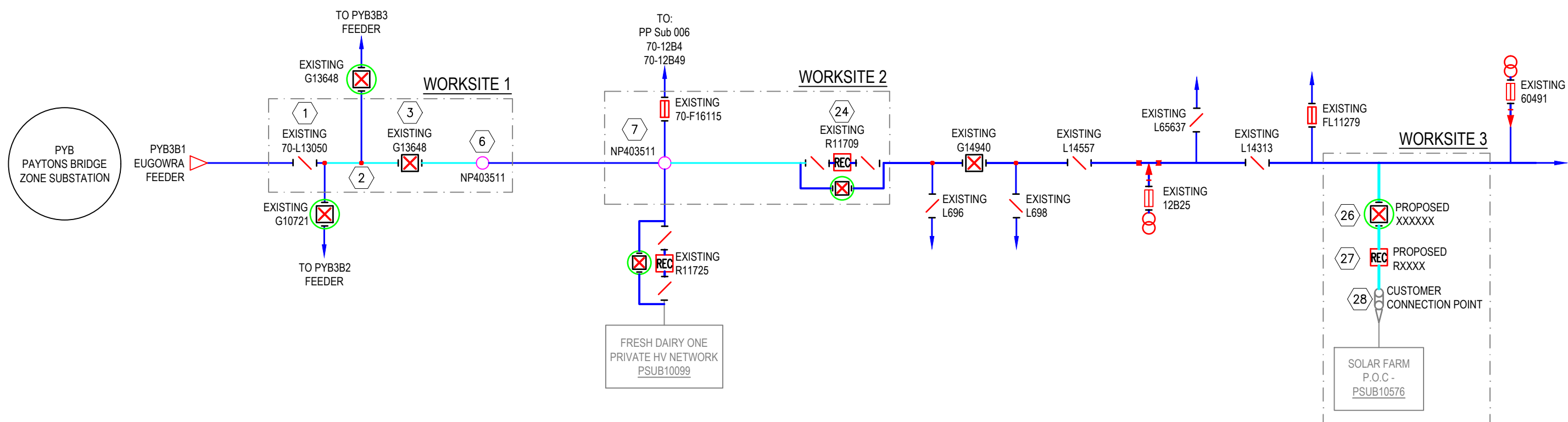
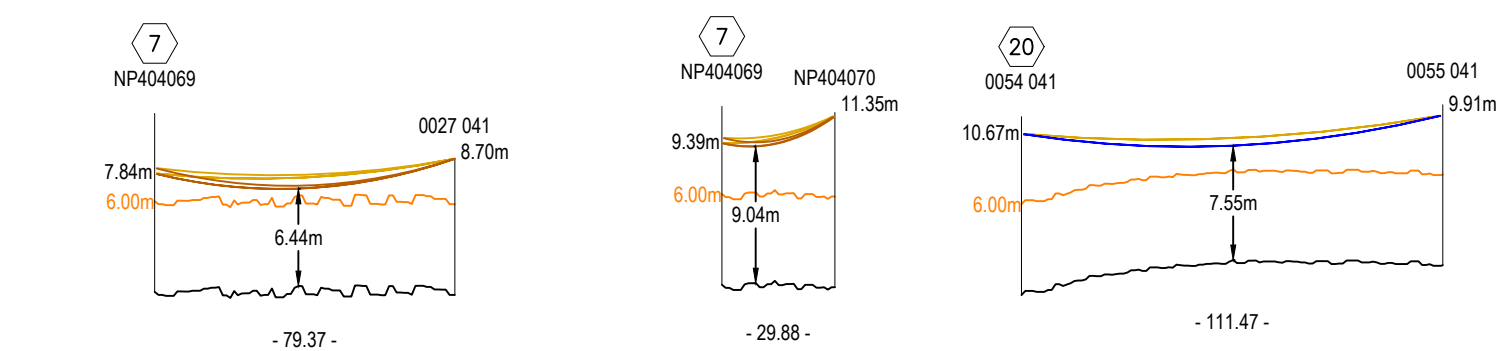
WORKSITE 1 PROFILE



WORKSITE 2 PROFILES



WORKSITE 2 PROFILES



REVISION DETAILS

ISSUE 01

BY A DESIGNER

DATE XXXX/2024

DETAIL PRELIMINARY ISSUE



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PROJECT
EUGOWRA SOLAR FARM
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LACHLAN VALLEY WAY PAYTENS BRIDGE NSW 2871
ELECTRICAL RETICULATION - MAJOR CONNECTIONS

EE PROJECT No: ECN-103890
EE CONN APP No: 00270381
EE DIA No: 00270384
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PE JOB No: PE0462
SHEET SIZE: A1
PLAN No: ECN-103890
REV: 01
SHEET: 5 of 5