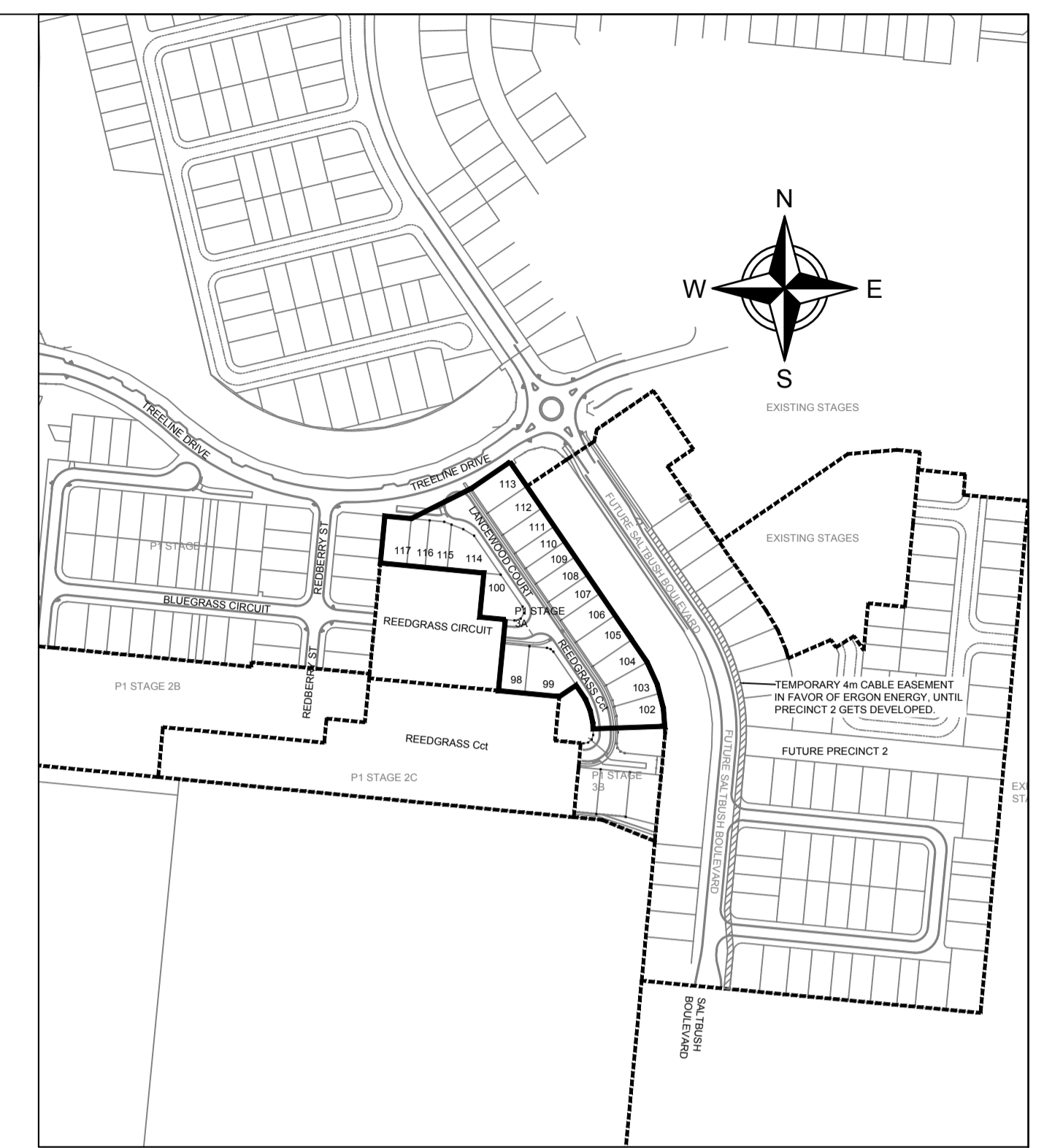
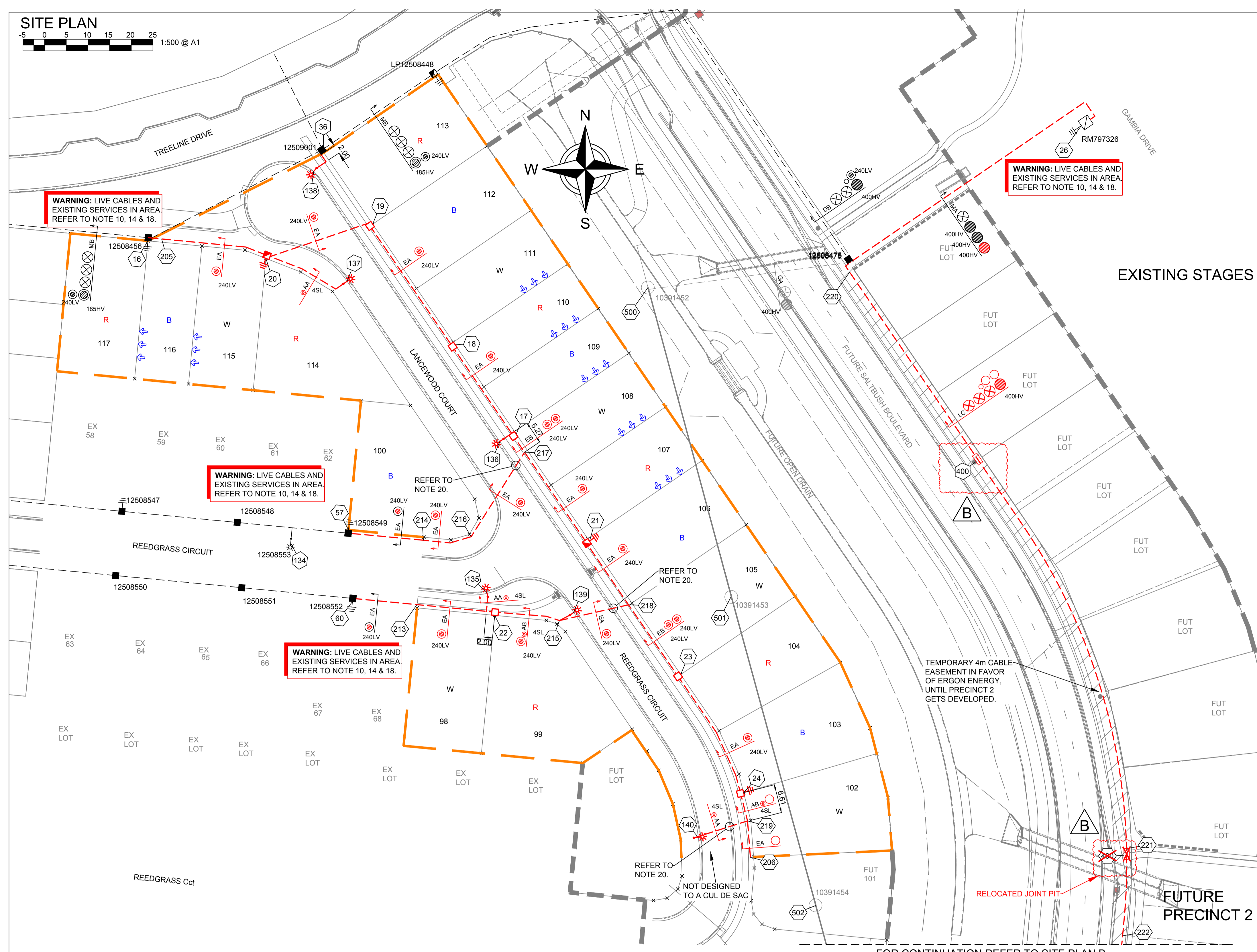


**SITE PLAN**  
 -5 0 5 10 15 20 25  
 1:500 @ A1



**ERGON WORKS SCHEDULES LOCATED ON SHEET 2 OF 5.**

- ERGON RECOVERY WORKS:**
- ERGON ENERGY TO RECOVER EXISTING OH LINE, POLES AND STAYS BETWEEN AND INCLUDING POLE 10391452 AND 10391456.
  - ERGON ENERGY TO RECOVER EXISTING CONDUCTOR BETWEEN POLES 2002257 & 10391456.
  - ERGON ENERGY TO INSTALL NEW HV/LV POLE AT STN 506 AND STAY.
  - ERGON ENERGY TO INSTALL NE CONDUCTOR FROM EXISTING POLE 2002257 TO NEW POLE STN 506.
  - ERGON ENERGY TO INSTALL HV CABLE TERMINATION AT STN 26 & NEW POLE STN 506.
  - ERGON ENERGY TO RECOVER EXISTING CABLE TERMINATION FROM EXISTING POLE STN 500.

<b>AS CONSTRUCTED</b>	
ON COMPLETION, MARK UP THIS. PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER.	
CHANGES:	YES/NO
<b>ELECTRICAL CONTRACTOR</b>	
NAME:	Woodburn Electrical
SIGNATURE:	Paul Langtree
DATE:	17/12/25
<b>CIVIL CONTRACTOR</b>	
NAME:	BMD Urban
SIGNATURE:	Harry Baidman
DATE:	16/12/25

B	17/12/25	AS CONSTRUCTED	MSEW
A	1/10/24	FOR CONSTRUCTION	SW
Code	Date	Description	Revised

CLIENT:  
 Urbex 118 Pty Ltd  
 PO Box 6008,  
 TOWNSVILLE, QLD. 4810  
 Ph. 07 4750 7014 Fax

CIVIL ENGINEER  
 Empower Engineers and Project Managers (Townsville)  
 PO Box 6008,  
 TOWNSVILLE, QLD. 4810  
 Ph. 07 4750 7000 Fax

**spa**  
 consulting engineers  
 Simon Perkins & Associates  
 Tel: (07) 4032 3311 or (07) 4728 3026  
 PO Box 664 North Cairns QLD 4870  
 Email Address - admin@spaconsulting.com.au  
 A business unit of SPA Consulting Engineers (SOL) Pty Ltd. A.B.N. 91 510 844 418

**TRENCH SECTIONS-LEGEND**

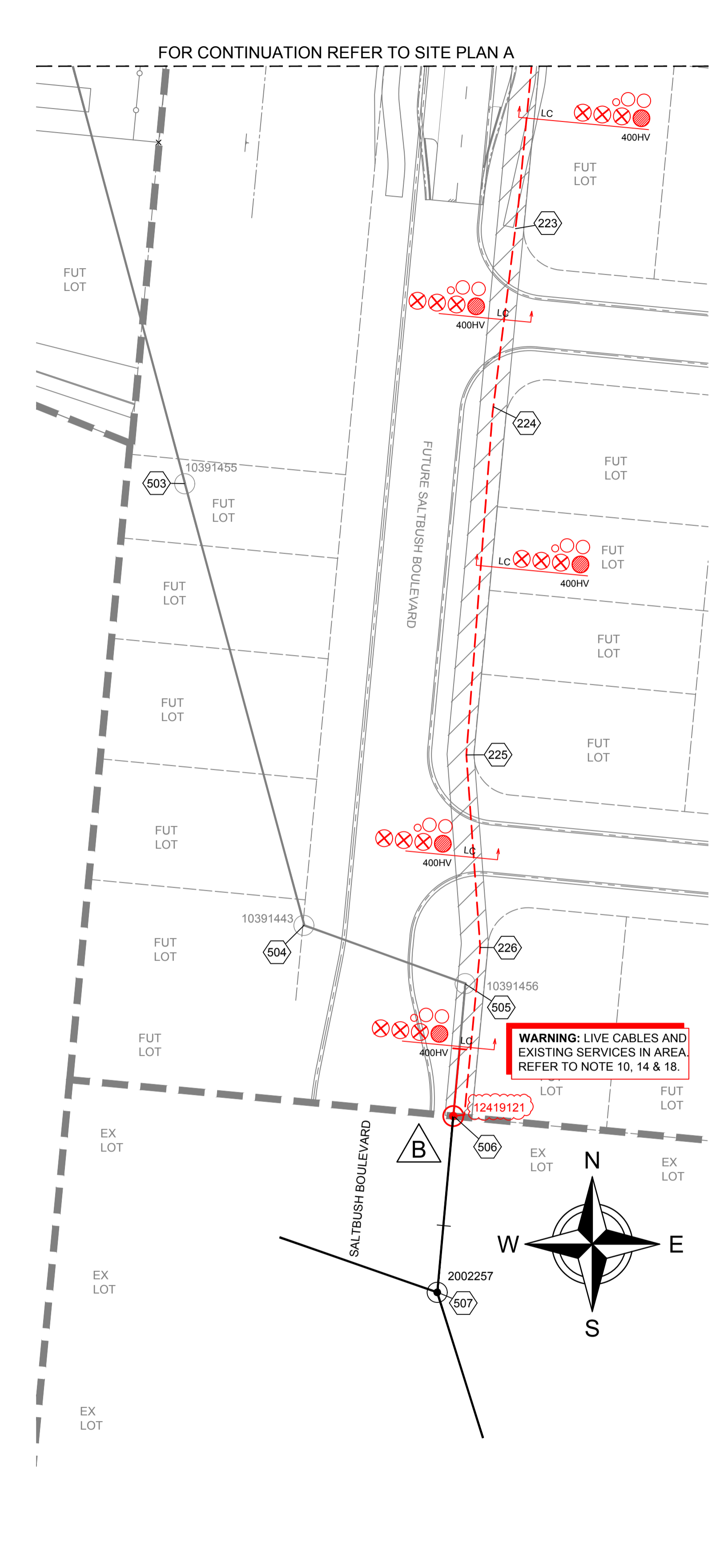
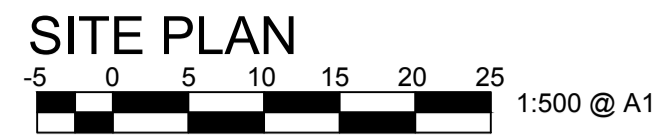
⊗	SPARE HV CONDUIT - EXISTING
⊗	SPARE HV CONDUIT - PLANNED
○	CABLE - PLANNED
●	CABLE - EXISTING
○AB	CONDUITS - EXISTING
○AB	CONDUITS - PLANNED

**LEGEND**

---	CABLE EXISTING
---	CABLE PLANNED
---	CABLE RECOVER
---	EQUIPMENT EXISTING
---	EQUIPMENT RECOVER
---	EQUIPMENT PLANNED
---	CABLE JOINT
---	35mm sq ANNEALED BARE COPPER EARTH

⊠	SUBSTATION	□	N1, N2, N3, CIA1 & CIA2 PILLARS
⊠	RING MAIN UNIT	⊠	DISTRIBUTION CABINET
⊠	CROSS ROAD PILLAR	⊠	STREETLIGHT
⊠	LINKING PILLAR	⊠	EARTH
⊠	LIGHTING PIT	○	HV POLE
⊠	CABLE JOINT	○	HV/LV POLE
		○	LV POLE
		⊠	POLE MOUNTED TRANSFORMER

Drawing Title	Date	SEPTEMBER 2024
SOMERS & HERVEY STAGE 3A UDC UG ELECTRICAL RETICULATION SITE PLAN A	Scale	AS SHOWN
	Drawn	SW
	RPEQ Design Certification Michael Dayot 29435	
	Sheet	1 OF 5
Project Description SOMERS & HERVEY ESTATE RASMUSSEN	ERGON Project Number 1946917	SPA Drawing Number 3907-E01
	Revision	B



**SPA LIGHTING DESIGN COMPLIANCE CERTIFICATE**

THIS LIGHTING DESIGN COMPLIES GENERALLY WITH THE NOMINATED CATEGORIES OF AS1158 FOR RATE 1 AND RATE 2 LUMINAIRES.

NAME: Michael Dayot TITLE: ENGINEER RPEQ: 29435

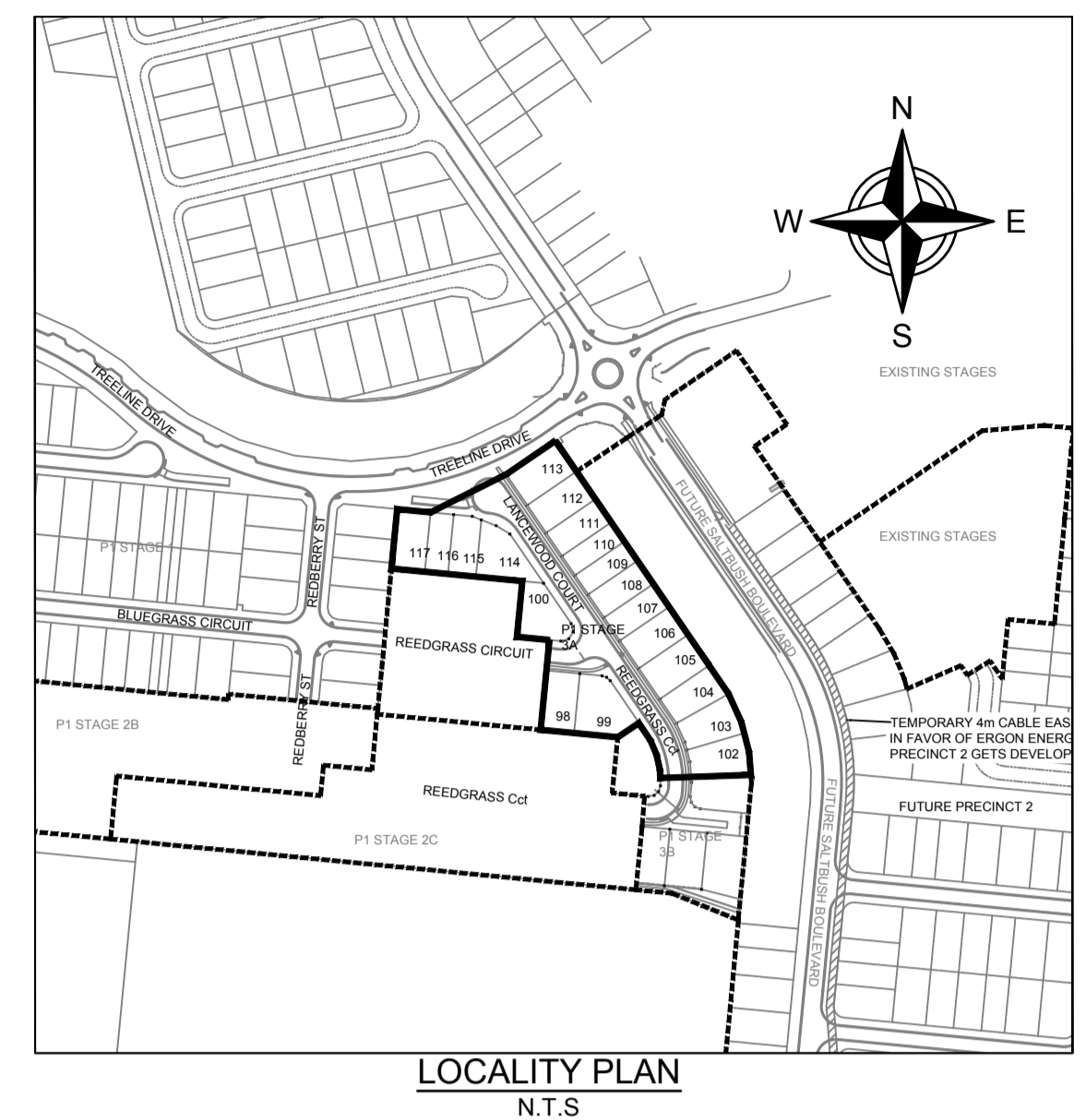
LIGHTING CATEGORIES: LOCAL COUNCIL: TOWNSVILLE CITY COUNCIL LUMINAIRE UPCAST: 0 DEGREES UPCAST ANGLE MAINTENANCE FACTOR: 0.75

THE DESIGN ASSUMES MAINTENANCE FACTORS OF 0.75 FOR MINOR ROAD LIGHTING AND 0.75 FOR MAJOR ROAD LIGHTING. THESE MAINTENANCE FACTORS ARE BASED ON THE FOLLOWING MAINTENANCE SCHEDULE, WHICH MIGHT NOT NECESSARILY BE ADOPTED BY ERGON.

- LAMPS SHALL BE REPLACED AT 36- MONTH INTERVALS.
- ALL THAT TIME, LUMINAIRES SHALL BE CLEANED, INSPECTED AND MAINTAINED.
- VEGETATION SHALL BE KEPT CLEAR OF STREET LIGHTS.
- INSPECTION PATROLS AND SPOT LAMP REPLACEMENT SHALL MAINTAIN SERVICE AVAILABILITY AT NO LESS THAN 95%.
- LUMINAIRES AND LAMPS SHALL BE REPLACED WITH EXACT EQUIVALENTS.

ALL LIGHTING CALCULATIONS ARE AVAILABLE UPON REQUEST.

FOR LIGHTING ARRANGEMENT, SPACINGS, MOUNTING HEIGHTS, OUTREACH DETAILS AND SIGNIFICANT ROAD FEATURES, REFER TO DRAWING.



STN FROM	STN TO	ACTION	VOLTAGE	CONSTRUCTION CODE	ROUTE LENGTH	CABLE LENGTH	REMARKS
26	500	RECOVER - ERGON	11kV	11-400T/1726	120	140	ERGON ENERGY TO RECOVER EXISTING HV CABLE FROM STN 500-26 AS PART OF HEADWORKS.

STN NO	SITE LABEL	POLE ALIGNMENT	POLE SETTING DEPTH	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	POSITION ON POLE	REMARKS
16	12508456			INSTALL - ERGON	PILLAR UPGRADE	LV PNU2-3/240	5074		ERGON ENERGY TO UPGRADE PILLAR TO 2-WAY & TERMINATE CABLE FROM STN 16 TO 20.
26	RM797326			INSTALL - ERGON	HV CABLE TERMINATION	11 PM/CTC/ASL/400TI	5245		ERGON ENERGY TO INSTALL HV CABLE TERMINATION FOR CABLE STN 26 TO 506.
26	RM797326			RECOVER - ERGON	HV CABLE TERMINATION				ERGON ENERGY TO RECOVER EXISTING HV CABLE TERMINATION FOR CABLE STN 26 TO 500.
36	12509001			INSTALL - ERGON	ADDITIONAL STREETLIGHT FUSE	SLFUSES	5074		ERGON ENERGY TO INSTALL 32AMP SL FUSE AND TERMINATE CABLE FROM STN 138.
57	12508549			INSTALL - ERGON	PILLAR UPGRADE	LV PNU1-2/240	5074		ERGON ENERGY TO UPGRADE PILLAR TO 2-WAY & TERMINATE CABLE FROM STN 57 TO 17.
60	12508552			INSTALL - ERGON	PILLAR UPGRADE	LV PNU1-2/240	5074		ERGON ENERGY TO UPGRADE PILLAR TO 2-WAY & TERMINATE CABLE FROM STN 60 TO 22.
500	10391452			RECOVER - ERGON	HV CABLE TERMINATION				ERGON ENERGY TO RECOVER EXISTING HV TERMINATION AS PART OF HEADWORKS.
500	10391452			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
501	10391453			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
502	10391454			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
503	10391455			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
504	10391443			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
505	10391456			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
506	12419121	B		INSTALL - ERGON	HV CABLE TERMINATION	11 CT P/400T/P	5101		ERGON ENERGY TO INSTALL HV CABLE TERMINATION FOR CABLE STN 506 TO 26 HEADWORKS.
506	12419121			INSTALL - ERGON	POLE				ERGON ENERGY TO INSTALL NEW HV-LV TERMINATION POLE AS PART OF HEADWORKS.

**WARNING: LIVE CABLES AND EXISTING SERVICES IN AREA REFER TO NOTE 10, 14 & 18.**

- WORKPLAN NOTES**
- FOR STANDARD UNDERGROUND DUCT SECTIONS REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5168.
  - POLYMERIC COVER TO BE INSTALLED OVER CONDUITS OUTSIDE NORMAL ERGON ALIGNMENT AS PER ERGON DRAWING 5022-1 AND 5124-1 & 2.
  - STANDARD TRENCH ALIGNMENT IS 0.3 TO 0.9 METRES OFF PROPERTY ALIGNMENT SUBJECT TO LOCATION OF OTHER SERVICES. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5163 AND DRAWING 5228 FOR TRENCHES WITH NBNC CONDUITS.
  - STREETLIGHT POLE FOOTINGS SHALL BE LOCATED PERPENDICULAR TO THE KERB, AT THE PROLONGATION OF THE SIDE PROPERTY BOUNDARY, UNLESS DETAILED OTHERWISE. WHERE DIMENSIONS ARE SHOWN, THEY TAKE PRECEDENCE OVER GRID COORDINATES.
  - ALL CONDUITS SHALL BE CONTINUOUS UNLESS DETAILED OTHERWISE.
  - FOR STANDARD UDC CONSTRUCTION PRACTICES REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWINGS 5022, 5085 AND 5124.
  - MINOR STREETLIGHTS - THE DEVELOPER SHALL SUPPLY AND INSTALL STREETLIGHT BASES. FOUNDATION DEPTH IS 1200mm FOR MINOR STREETLIGHTS. REFER TO LIGHTING CONSTRUCTION MANUAL DRAWING 1-6-4-1 & 2.
  - THE LIGHTING DESIGN INCLUDES AN ALLOWANCE FOR CONSTRUCTION TOLERANCE OF LIGHT POLES SUCH THAT ANY STREETLIGHT CAN BE POSITIONED UP TO A MAXIMUM OF ±350mm LONGITUDINALLY FROM THE POSITION SHOWN AND UP TO 100mm MAXIMUM FURTHER AWAY FROM KERB EDGE, INCLUDING POLES WITH GRID COORDINATES, AND STILL MAINTAIN COMPLIANCE.
  - CONFIRM ALL CONDUIT AND CABLE LENGTHS PRIOR TO INSTALLATION.
  - IN ACCORDANCE WITH ELECTRICAL SAFETY ACT, A SAFETY OBSERVER MUST BE PRESENT AT ALL TIMES WHEN WORKING IN THE VICINITY OF ENERGISED CABLES. CONTACT ERGON ENERGY ON 131046.
  - WHERE SHOWN, 35mm sq ANNEALED BARE Cu EARTH SHALL BE INSTALLED AT BOTTOM OF TRENCH, IN NATURAL SOIL, BELOW BEDDING SAND, LOCATED A MINIMUM OF 50mm HORIZONTALLY TOWARDS PROPERTY BOUNDARY FROM CONDUITS (HV OR LV) INSTALLED ON PROPERTY BOUNDARY SIDE OF TRENCH. COIL 2m OF CABLE AT SPECIFIED STATIONS IN THE CONDUIT DUCTING SCHEDULE AND ALL REQUIRED JOINTS FOR CONNECTION BY ELECTRICAL CONTRACTOR. THE USE OF THE EARTH ROD CONNECTOR (U-BOLT, IIN. 0719437) IS NOT ACCEPTABLE FOR CONDUCTOR / CABLE TO CONDUCTOR / CABLE CONNECTIONS. IN ADDITION PARALLEL GROOVE CLAMPS ARE NOT ACCEPTABLE FOR JOINTING OR CONNECTING EARTHS BELOW GROUND LEVEL. ACCEPTABLE METHODS SHALL BE EITHER A CRIMP LINK OR A 'C' TYPE COMPRESSION CONNECTOR. CRIMP LINKS AND 'C' TYPE COMPRESSION CONNECTORS ARE AVAILABLE FROM ERGON ENERGY STORES IIN. 0157746 AND IIN. 2406222 RESPECTIVELY.
  - ELECTRONIC CABLE MARKERS (ECM'S) ARE TO BE SUPPLIED BY THE ELECTRICAL CONTRACTOR AND ARE REQUIRED AT ENDS OF ALL SPARE CONDUITS AND AT ALL CABLE JOINTS. ECM'S SHALL BE PLACED 150mm ABOVE THE LINE OF CONDUIT FOR CABLE JOINTS AND 150mm ABOVE THE LINE OF CONDUIT FOR SPARE CONDUITS. ECM'S ARE RECOVERABLE AND SHALL BE REMOVED AND RETURNED TO THE ELECTRICAL CONTRACTOR WHEN ALL SPARE CONDUIT ENDS ARE REMOVED FROM A LOCATION.
  - ADDITIONAL CONDUIT BENDS SHALL BE INSTALLED TO ACHIEVE INCREASED BURIAL DEPTH AT ROAD CROSSINGS. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5022.
  - ALL CONTRACTORS MUST CARRY OUT A DIAL BEFORE YOU DIG ENQUIRY BEFORE COMMENCING ANY EXCAVATION.
  - INSTALL PILLAR OFFSET IN ACCORDANCE WITH ERGON DRAWING 5196-2 & DETAIL A.
  - CONTRACTOR TO SUPPLY AND INSTALL ENGRAVED LABEL LOCATED ON LIGHTING TERMINAL STATING "LIGHT FED FROM PILLAR ASSET NUMBER \_\_\_\_\_"
  - CONTRACTOR TO INSTALL HV JOINT AT STN 400 WITH A 2m x 6m SAND PIT FOR ACCESS. ADDITIONAL LUBRICATION PITS MAYBE REQUIRED ON SITE FOR THESE PULLS. ELECTRICAL CONTRACTOR TO CONFIRM WITH CIVIL CONTRACTOR AT PRESTART MEETING WHERE AND IF SAND PITS ARE REQUIRED.
  - WARNING: LIVE CABLES AND EXISTING SERVICES IN AREA. CONTRACTOR TO USE POT HOLING, HYDRO-VAC EXCAVATION AND CABLE LOCATION WHEN INSTALLING NEW INFRASTRUCTURE.**
  - DEVELOPER TO PROVIDE 4m TRAFFICABLE, ALL WEATHER ACCESSIBLE EASEMENT OVER CABLE FROM STN 220 TO 506 GROUND LEVELS TO BE INSTALLED AT FINAL FINISHED LEVELS TO ALLOW CONDUITS TO BE INSTALLED AT CORRECT DEPTHS. FUTURE PROPERTY BOUNDARIES TO BE PEGGED WITH 50mm x 50mm WHITE BEVELED EDGED FINAL SURVEY PEGS.
  - WHERE NOTED ON THE DESIGN, ELECTRICAL CONDUITS SHALL BE INSTALLED UNDERNEATH STORMWATER PIPES WHERE CLASHES OCCUR. SEPARATION FROM BOTTOM OF STORMWATER PIPE TO TOP OF ERGON CONDUIT SHALL BE NO LESS THAN 300mm.

**AS CONSTRUCTED**

ON COMPLETION, MARK UP THIS. PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER.

CHANGES: YES/NO

**ELECTRICAL CONTRACTOR**  
 NAME: Woodburn Electrical  
 SIGNATURE: Paul Langtree  
 DATE: 17/12/25

**CIVIL CONTRACTOR**  
 NAME: BMD Urban  
 SIGNATURE: Harry Baidmaan  
 DATE: 16/12/25

CLIENT: Urbex 118 Pty Ltd	PO Box 6008, TOWNSVILLE, QLD. 4810 Ph: 07 4750 7014 Fax		
CIVIL ENGINEER Empower Engineers and Project Managers (Townsville)	MSEW		
PO Box 6008, TOWNSVILLE, QLD. 4810 Ph: 07 4750 7000 Fax	SW		
Code	Date	Description	Revised
B	17/12/25	AS CONSTRUCTED	
A	1/10/24	FOR CONSTRUCTION	

**spa consulting engineers**

Tel: (07) 4032 3311 or (07) 4728 3026  
 PO Box 664 North Cairns QLD 4870  
 Email Address: admin@spaconconsulting.com.au  
 A business unit of SPA Consulting Engineers (QD) Pty Ltd ABN: 91 910 844 418

**TRENCH SECTIONS-LEGEND**

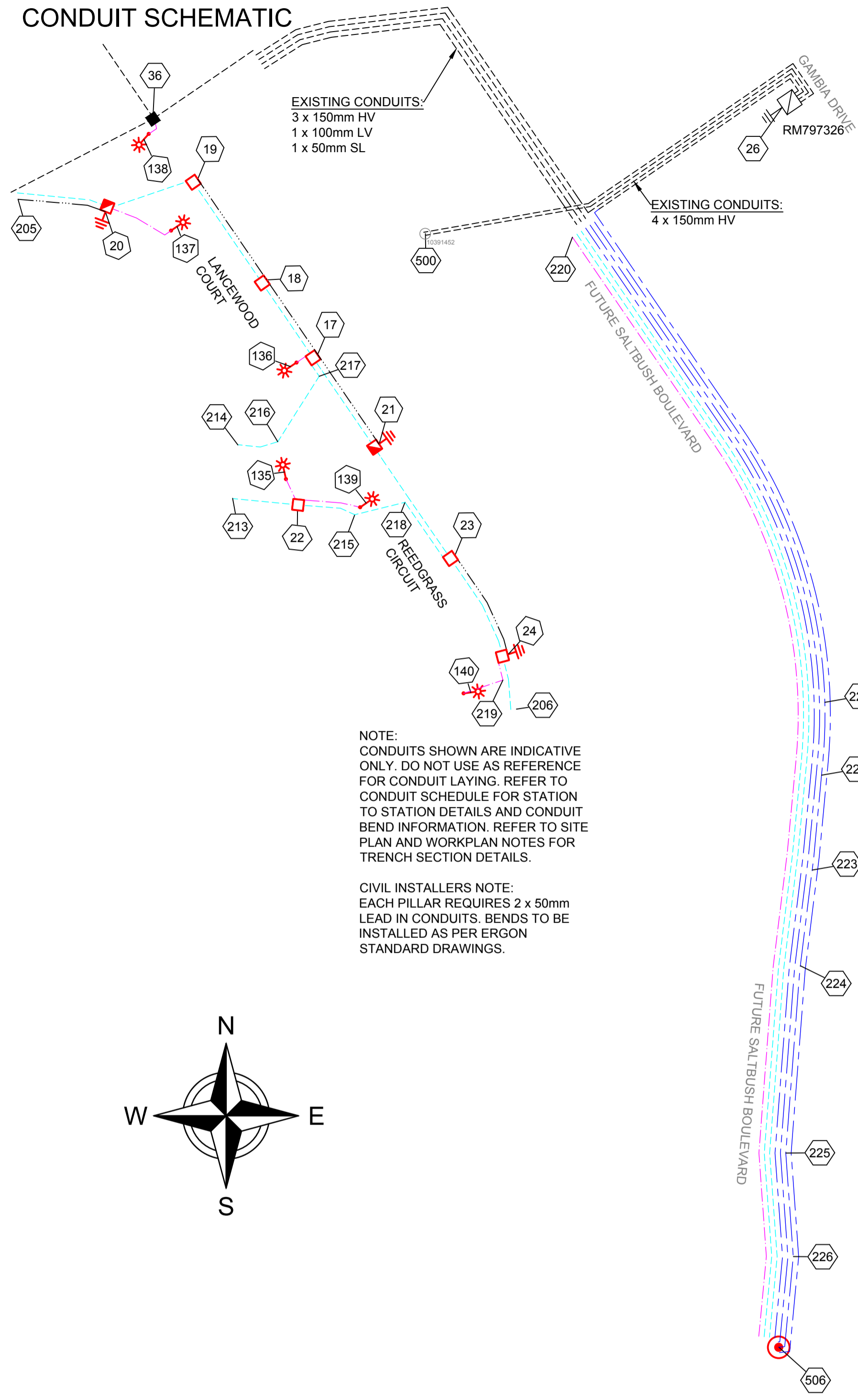
- ⊗ SPARE HV CONDUIT - EXISTING
- ⊗ SPARE HV CONDUIT - PLANNED
- CABLE - PLANNED
- CABLE - EXISTING
- /AB CONDUITS - EXISTING
- /AB CONDUITS - PLANNED

**LEGEND**

- CABLE EXISTING
- CABLE PLANNED
- CABLE RECOVER
- EQUIPMENT EXISTING
- EQUIPMENT RECOVER
- EQUIPMENT PLANNED
- ZERO LOT BOUNDARY
- 150mm HV DUCT
- 125mm HV DUCT
- 100mm LV DUCT
- LIGHTING DUCT
- 35mm sq ANNEALED BARE COPPER EARTH
- ⊠ SUBSTATION
- ⊠ RING MAIN UNIT
- ⊠ CROSS ROAD PILLAR
- ⊠ LINKING PILLAR
- ⊠ LIGHTING PIT
- ⊠ CABLE JOINT
- ⊠ N1, N2, N3, CIA1 & CIA2 PILLARS
- ⊠ DISTRIBUTION CABINET
- ⊠ STREETLIGHT
- ⊠ EARTH
- ⊠ HV/LV POLE
- ⊠ POLE MOUNTED TRANSFORMER
- HV POLE
- LV POLE

Drawing Title	Date	SEPTEMBER 2024
SOMERS & HERVEY STAGE 3A UDC UG ELECTRICAL RETICULATION SITE PLAN B & ERGON WORKS SCHEDULE	Scale	AS SHOWN
	Drawn	SW
	RPEQ Design Certification Michael Dayot 29435	
	Sheet	2 OF 5
Project Description	ERGON Project Number	SPA Drawing Number
SOMERS & HERVEY ESTATE RASMUSSEN	1946917	3907-E02
		Revision
		B

**CONDUIT SCHEMATIC**



NOTE:  
CONDUITS SHOWN ARE INDICATIVE ONLY. DO NOT USE AS REFERENCE FOR CONDUIT LAYING. REFER TO CONDUIT SCHEDULE FOR STATION TO STATION DETAILS AND CONDUIT BEND INFORMATION. REFER TO SITE PLAN AND WORKPLAN NOTES FOR TRENCH SECTION DETAILS.

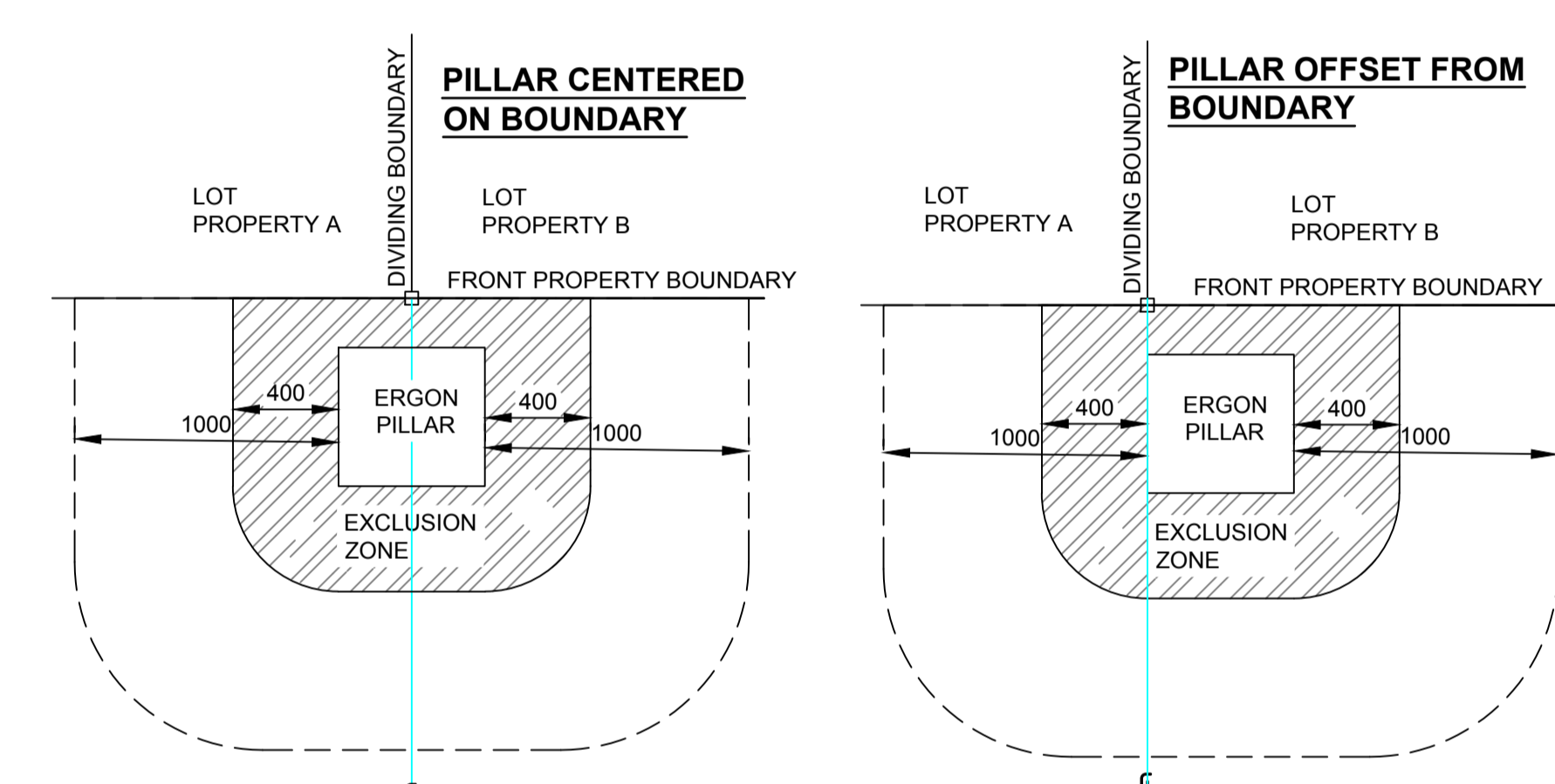
CIVIL INSTALLERS NOTE:  
EACH PILLAR REQUIRES 2 x 50mm LEAD IN CONDUITS. BENDS TO BE INSTALLED AS PER ERGON STANDARD DRAWINGS.

**VERGE CONDUIT DUCTING SCHEDULE**

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	No. of LENGTHS / DRUM	BENDS (Degrees/ Radius(mm) x No.)	Remarks
17	18	INSTALL - CIVIL	C100L	25	4.2	45/1200x2	
17	21	INSTALL - CIVIL	C100L	30	5.0	45/1200x2	
17	136	INSTALL - CIVIL	C50H	5	1.3	90/300x2	
18	19	INSTALL - CIVIL	C100L	33	5.5	45/1200x2	
19	21	INSTALL - CIVIL	35mm2 ANNEALED BARE Cu EARTH	90	0.4		COIL 2M OF CABLE AT STN 21 FOR CONNECTION BY ELECTRICAL CONTRACTOR. LEAVE AT BOTTOM OF TRENCH AT STN 19
20	137	INSTALL - CIVIL	C50H	20	5.0	90/300x2 90/600x1	
22	135	INSTALL - CIVIL	C50H	5	1.3	90/300x2 90/600x1	
22	139	INSTALL - CIVIL	C50H	19	4.8	90/300x2 90/600x1	
22	215	INSTALL - CIVIL	C100L	14	2.3	45/1200x1 15/1830x2	
23	21	INSTALL - CIVIL	C100L	37	6.2	45/1200x2	
23	24	INSTALL - CIVIL	C100L	31	5.2	45/1200x2 15/1830x2	
23	24	INSTALL - CIVIL	35mm2 ANNEALED BARE Cu EARTH	34	0.1		COIL 2M OF CABLE AT STN 24 FOR CONNECTION BY ELECTRICAL CONTRACTOR. LEAVE AT BOTTOM OF TRENCH AT STN 23.
24	206	INSTALL - CIVIL	C100L	15	2.5	45/1200x1 15/1830x1	CAP CONDUIT AT STN 206.
24	219	INSTALL - CIVIL	C50H	7	1.8	90/600x1 90/300x1	
36	138	INSTALL - CIVIL	C50H	6	1.5	90/300x2 90/600x1	
205	20	INSTALL - CIVIL	35mm2 ANNEALED BARE Cu EARTH	28	0.1		COIL 2M OF CABLE AT STN 20 FOR CONNECTION BY ELECTRICAL CONTRACTOR. LEAVE AT BOTTOM OF TRENCH AT STN 205
205	20	INSTALL - CIVIL	C100L	26	4.3	45/1200x1	LOCATE EXISTING CAPPED CONDUIT AT STN 205 AND CONNECT TO NEW.
213	22	INSTALL - CIVIL	C100L	18	3.0	45/1200x1	LOCATE EXISTING CAPPED CONDUIT AT STN 213 AND CONNECT TO NEW.
214	216	INSTALL - CIVIL	C100L	11	1.8	15/1830x2	LOCATE EXISTING CAPPED CONDUIT AT STN 214 AND CONNECT TO NEW.
217	17	INSTALL - CIVIL	C100L	6	1.0	45/1200x1 45/1830x1	
218	23	INSTALL - CIVIL	C100L	20	3.3	45/1830x1 45/1200x1	
220	221	INSTALL - CIVIL	C50H	151	37.8		CAP CONDUIT AT STN 220.
220	221	INSTALL - CIVIL	C150L	151	25.2	15/1830x3	LOCATE EXISTING CAPPED CONDUIT AT STN 220 AND CONNECT TO NEW. PROVE BACK TO NORTHERN RMU.
220	221	INSTALL - CIVIL	C100L	151	25.2	15/1830x3	LOCATE EXISTING CAPPED CONDUIT AT STN 220 AND CONNECT TO NEW.
220	221	INSTALL - CIVIL	C150L	151	25.2	15/1830x3	LOCATE EXISTING CAPPED CONDUIT AT STN 220 AND CONNECT TO NEW. PROVE CONDUIT BACK TO RMU STN 26.
220	221	INSTALL - CIVIL	C100L	151	25.2	15/1830x3	LOCATE EXISTING CONDUIT AT STN 220 AND CUT & CONNECT TO NEW.
220	221	INSTALL - CIVIL	C100L	151	25.2	15/1830x3	CAP CONDUIT AT STN 220.
220	221	INSTALL - CIVIL	C150L	151	25.2	15/1830x3	LOCATE EXISTING CAPPED CONDUIT AT STN 220 AND CONNECT TO NEW. PROVE BACK TO NORTHERN RMU.
221	222	INSTALL - CIVIL	C150L	22	3.7	15/1830x4	ADDITIONAL BENDS ADDED TO ROUTE UNDER OPEN DRAIN.
221	222	INSTALL - CIVIL	C150L	22	3.7	15/1830x4	ADDITIONAL BENDS ADDED TO ROUTE UNDER OPEN DRAIN.
221	222	INSTALL - CIVIL	C100L	22	3.7	15/1830x4	ADDITIONAL BENDS ADDED TO ROUTE UNDER OPEN DRAIN.
221	222	INSTALL - CIVIL	C50H	22	5.5		ADDITIONAL BENDS ADDED TO ROUTE UNDER OPEN DRAIN.
221	222	INSTALL - CIVIL	C150L	22	3.7	15/1830x4	ADDITIONAL BENDS ADDED TO ROUTE UNDER OPEN DRAIN.
221	222	INSTALL - CIVIL	C100L	22	3.7	15/1830x4	ADDITIONAL BENDS ADDED TO ROUTE UNDER OPEN DRAIN.
221	222	INSTALL - CIVIL	C150L	22	3.7	15/1830x4	ADDITIONAL BENDS ADDED TO ROUTE UNDER OPEN DRAIN.
221	222	INSTALL - CIVIL	C150L	22	3.7	15/1830x4	ADDITIONAL BENDS ADDED TO ROUTE UNDER OPEN DRAIN.
222	223	INSTALL - CIVIL	C150L	27	4.5		
222	223	INSTALL - CIVIL	C150L	27	4.5		
222	223	INSTALL - CIVIL	C100L	27	4.5		
222	223	INSTALL - CIVIL	C50H	27	6.8		
222	223	INSTALL - CIVIL	C150L	27	4.5		
222	223	INSTALL - CIVIL	C150L	27	4.5		
222	223	INSTALL - CIVIL	C100L	27	4.5		
222	223	INSTALL - CIVIL	C150L	27	4.5		
224	225	INSTALL - CIVIL	C50H	51	12.8		
224	225	INSTALL - CIVIL	C100L	51	8.5		
224	225	INSTALL - CIVIL	C150L	51	8.5		
224	225	INSTALL - CIVIL	C100L	51	8.5		
224	225	INSTALL - CIVIL	C150L	51	8.5		
224	225	INSTALL - CIVIL	C150L	51	8.5		
224	225	INSTALL - CIVIL	C150L	51	8.5		
226	506	INSTALL - CIVIL	C150L	27	4.5	45/1830x2	STOP CONDUIT 1M FROM POLE STN 506 FOR CABLING.
226	506	INSTALL - CIVIL	C150L	27	4.5	45/1830x2	CAP CONDUIT AT STN 506.
226	506	INSTALL - CIVIL	C150L	27	4.5	45/1830x2	CAP CONDUIT AT STN 506.
226	506	INSTALL - CIVIL	C150L	27	4.5	45/1830x2	CAP CONDUIT AT STN 506.
226	506	INSTALL - CIVIL	C50H	27	6.8		CAP CONDUIT AT STN 506.
226	506	INSTALL - CIVIL	C100L	27	4.5	45/1830x2	CAP CONDUIT AT STN 506.
226	506	INSTALL - CIVIL	C100L	27	4.5	45/1830x2	CAP CONDUIT AT STN 506.

**CROSSING CONDUIT DUCTING SCHEDULE**

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	No. of LENGTHS / DRUM	BENDS (Degrees/ Radius(mm) x No.)	Remarks
19	20	INSTALL - CIVIL	C100L	25	4.2	45/1200x2 45/1830x2 15/1830x2	
215	218	INSTALL - CIVIL	C100L	18	3.0	15/1830x5	CONDUIT TO AVOID LIGHT POLE FOOTING. REFER TO NOTE 20.
216	217	INSTALL - CIVIL	C100L	24	4.0	15/1830x5	REFER TO NOTE 20.
219	140	INSTALL - CIVIL	C50H	15	3.8	90/300x1	REFER TO NOTE 20.
223	224	INSTALL - CIVIL	C50H	29	7.3		
223	224	INSTALL - CIVIL	C150L	29	4.8	15/1830x4	
223	224	INSTALL - CIVIL	C100L	29	4.8	15/1830x4	
223	224	INSTALL - CIVIL	C100L	29	4.8	15/1830x4	
223	224	INSTALL - CIVIL	C150L	29	4.8	15/1830x4	
223	224	INSTALL - CIVIL	C150L	29	4.8	15/1830x4	
223	224	INSTALL - CIVIL	C150L	29	4.8	15/1830x4	
225	226	INSTALL - CIVIL	C150L	30	5.0	15/1830x6	
225	226	INSTALL - CIVIL	C150L	30	5.0	15/1830x6	
225	226	INSTALL - CIVIL	C150L	30	5.0	15/1830x6	
225	226	INSTALL - CIVIL	C100L	30	5.0	15/1830x6	
225	226	INSTALL - CIVIL	C50H	30	7.5		
225	226	INSTALL - CIVIL	C100L	30	5.0	15/1830x6	
225	226	INSTALL - CIVIL	C150L	30	5.0	15/1830x6	



**DETAIL A: PILLAR LOCATION CLEARANCE FROM LOT ACCESS**

- PILLAR TO BE INSTALLED OFFSET FROM PROPERTY BOUNDARY TOWARD ADJACENT LOT, UNLESS DRIVEWAY ACCESS FOR BOTH LOTS ARE LOCATED ON THE COMMON BOUNDARY.
- EDGE OF PILLAR CANNOT BE LOCATED MORE THAN 100mm FROM PROPERTY BOUNDARY PEG.
- DRIVEWAY ACCESS TO LOTS CANNOT BE LOCATED WITHIN 1m OF THE EDGE OF PILLAR, AS SHOWN.

**AS CONSTRUCTED**

ON COMPLETION, MARK UP THIS. PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER.

CHANGES: YES  NO

**ELECTRICAL CONTRACTOR**  
NAME: Woodburn Electrical  
SIGNATURE: Paul Langtree  
DATE: 17/12/25

**CIVIL CONTRACTOR**  
NAME: BMD Urban  
SIGNATURE: Harry Baidmaan  
DATE: 16/12/25

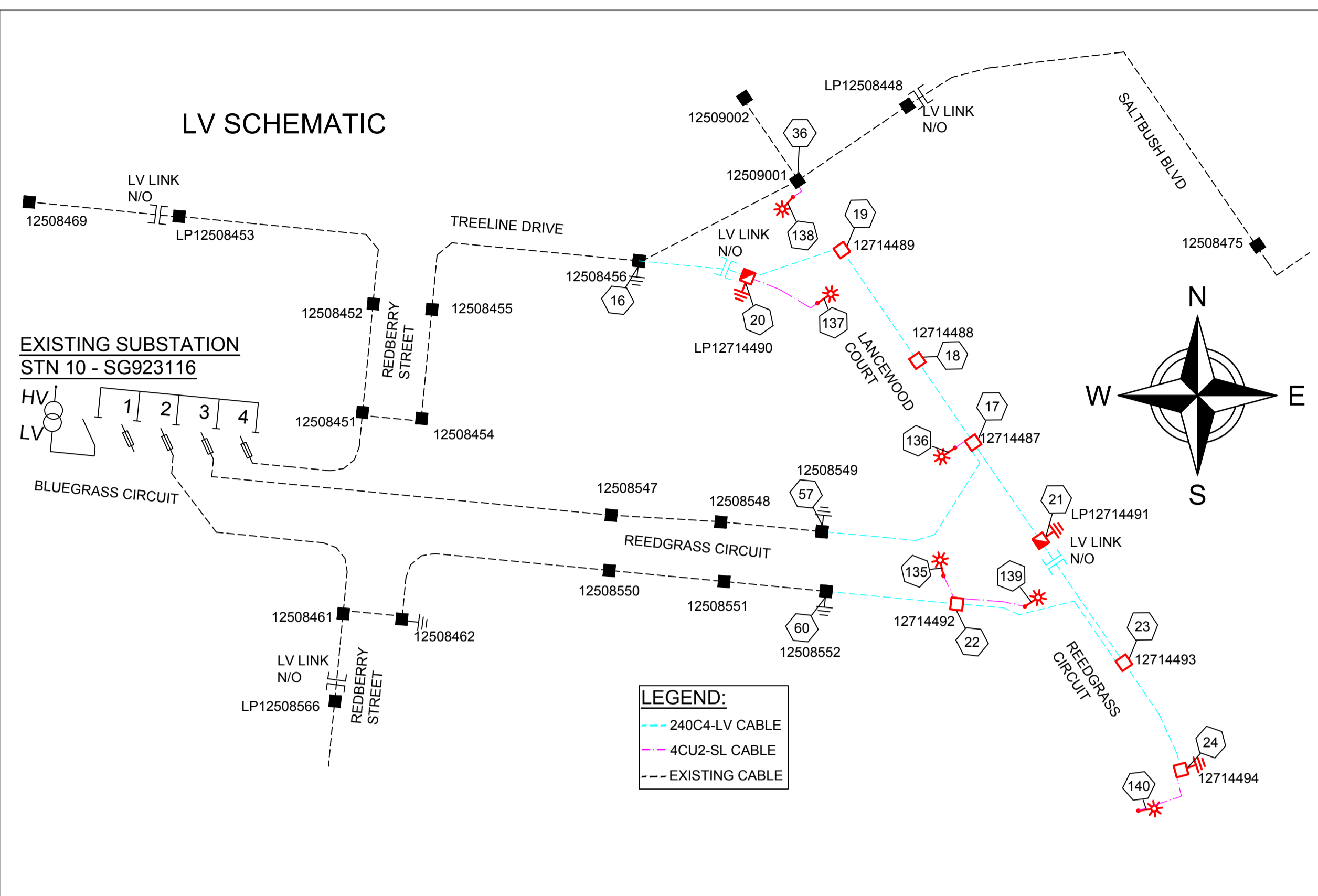
CLIENT: Urbex 118 Pty Ltd PO Box 6008, TOWNSVILLE, QLD. 4810 Ph. 07 4750 7014 Fax	 Tel: (07) 4032 3311 or (07) 4728 3026 PO Box 664 North Cairns QLD 4870 Email Address - admin@spaconconsulting.com.au A business unit of SPA Consulting Engineers (S2) Pty Ltd. A.B.N. 91 510 844 418	CIVIL ENGINEER Empower Engineers and Project Managers (Townsville) SW PO Box 6008, TOWNSVILLE, QLD. 4810 Ph. 07 4750 7000 Fax
B 17/12/24 AS CONSTRUCTED A 1/10/24 FOR CONSTRUCTION		MSEW SW

TRENCH SECTIONS-LEGEND
⊗ SPARE HV CONDUIT - EXISTING ⊗ SPARE HV CONDUIT - PLANNED ○ CABLE - PLANNED ● CABLE - EXISTING ○ AB ↓ CONDUITS - EXISTING ○ AB ↑ CONDUITS - PLANNED

LEGEND
--- CABLE EXISTING - - - CABLE PLANNED - - - CABLE RECOVER --- EQUIPMENT EXISTING - - - EQUIPMENT RECOVER --- 35mm sq ANNEALED BARE COPPER EARTH □ SUBSTATION □ RING MAIN UNIT □ CROSS ROAD PILLAR □ LINKING PILLAR □ LIGHTING PIT □ CABLE JOINT

□ N1, N2, N3, CIA1 & CIA2 PILLARS □ DISTRIBUTION CABINET * STREETLIGHT -  - EARTH ○ HV POLE ○ HV/LV POLE ● LV POLE
--

Drawing Title <b>SOMERS &amp; HERVEY STAGE 3A UDC UG ELECTRICAL RETICULATION CONDUIT SCHEMATIC &amp; SCHEDULES AND DETAIL A.</b>	Date SEPTEMBER 2024
Project Description <b>SOMERS &amp; HERVEY ESTATE RASMUSSEN</b>	Scale N.T.S.
ERGON Project Number 1946917	SPA Drawing Number 3907-E03
Revision B	Sheet 3 OF 5

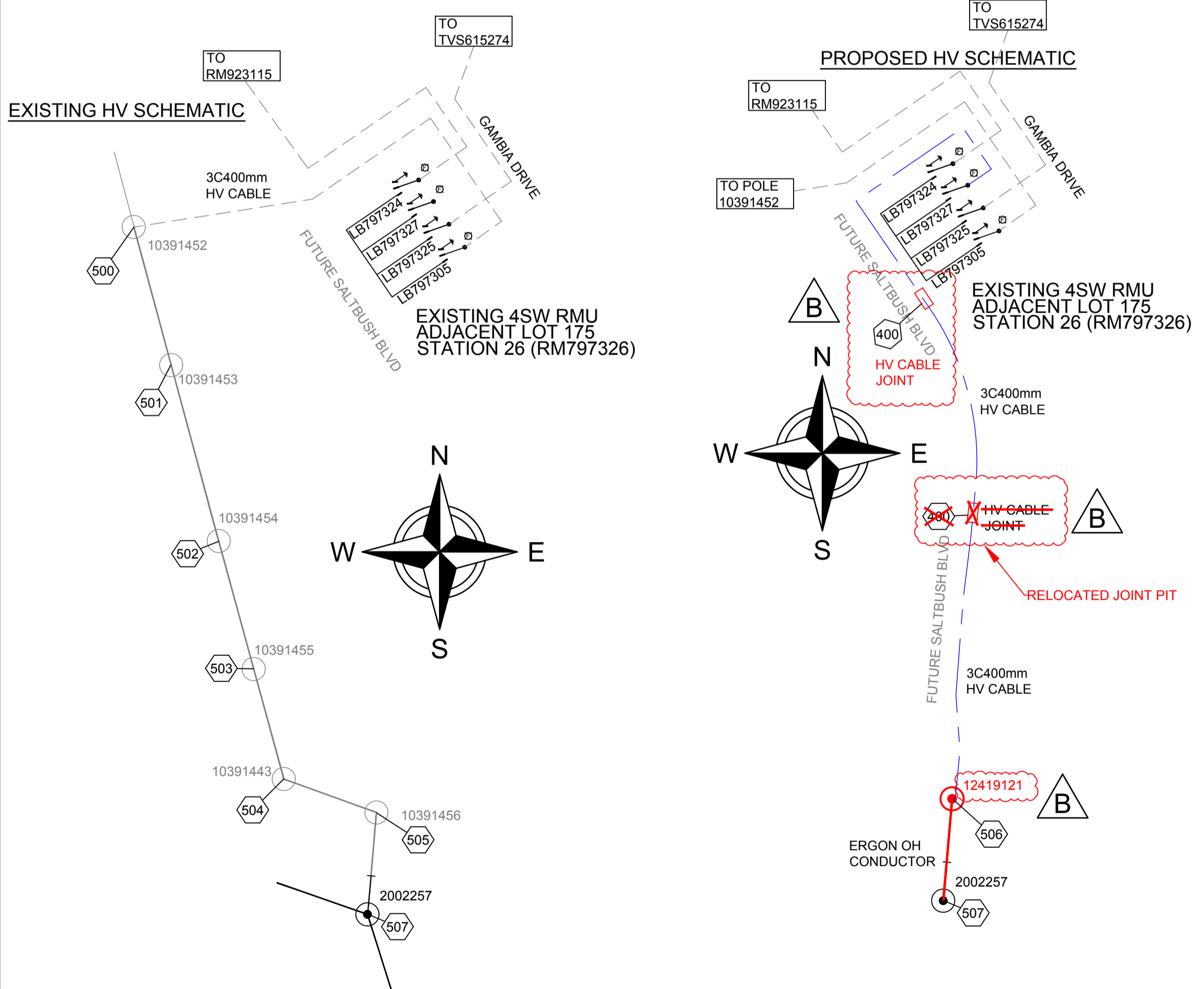


STN FROM	STN TO	ACTION	VOLTAGE	CONSTRUCTION CODE	ROUTE LENGTH	CABLE LENGTH	REMARKS
16	20	INSTALL	415V	LVI-240C4/1611	28	32	COIL CABLE AT STN 16 FOR FINAL TERMINATION BY ERGON ENERGY. LV LINK.
17	18	INSTALL	415V	LVI-240C4/1611	25	29	
17	21	INSTALL	415V	LVI-240C4/1611	30	34	
17	136	INSTALL	240V	LVI-4CU2NS/1671	5	10	
18	19	INSTALL	415V	LVI-240C4/1611	33	37	
19	20	INSTALL	415V	LVI-240C4/1611	25	29	
20	137	INSTALL	240V	LVI-4CU2NS/1671	20	25	
22	23	INSTALL	415V	LVI-240C4/1611	51	55	
22	135	INSTALL	240V	LVI-4CU2NS/1671	5	10	
22	139	INSTALL	240V	LVI-4CU2NS/1671	19	24	
23	21	INSTALL	415V	LVI-240C4/1611	38	42	LV LINK
23	24	INSTALL	415V	LVI-240C4/1611	31	35	
24	140	INSTALL	240V	LVI-4CU2NS/1671	14	19	
26	400	INSTALL	11kV	11I-400T/1726	123	130	COIL CABLE AT STN 26 FOR FINAL TERMINATION BY ERGON ENERGY. CONNECT CABLE AT STN 400.
26	500	RECOVER - ERGON	11kV	11I-400T/1726	120	140	ERGON ENERGY TO RECOVER EXISTING HV CABLE FROM STN 500-26 AS PART OF HEADWORKS.
36	138	INSTALL	240V	LVI-4CU2NS/1671	6	11	COIL 2M OF CABLE AT STN 36 FOR FINAL TERMINATION BY ERGON ENERGY.
57	17	INSTALL	415V	LVI-240C4/1611	56	60	COIL CABLE AT STN 57 FOR FINAL TERMINATION BY ERGON ENERGY.
60	22	INSTALL	415V	LVI-240C4/1611	32	36	COIL CABLE AT STN 60 FOR FINAL TERMINATION BY ERGON ENERGY.
400	506	INSTALL	11kV	11I-400T/1726	284	301	COIL CABLE AT STN 506 FOR FINAL TERMINATION BY ERGON ENERGY. CONNECT CABLE AT STN 400.

STN NO	SITE LABEL	ACTION	CONSTRUCTION CODE	RATE	TARIFF OWNER	MOUNTING HEIGHT (m)	REMARKS
134	12714495	EXISTING					
135	12714496	INSTALL	SLED SY 0137 N	RATE 2	TCC	7.5	
136	12714497	INSTALL	SLED SY 0137 N	RATE 2	TCC	7.5	
137	12714498	INSTALL	SLED SY 0137 N	RATE 2	TCC	7.5	
138	12714499	INSTALL	SLED SY 0137 N	RATE 2	TCC	7.5	
139	12714538	INSTALL	SLED SY 0137 N	RATE 2	TCC	7.5	
140	12714539	INSTALL	SLED SY 0137 N	RATE 2	TCC	7.5	

CONTRACTOR TO INSTALL LABELS AS BELOW:

LOCATION:		STATION:		LABEL INFORMATION	
LANCEWOOD COURT		20 LP12714490			
CIRCUIT No.	LABEL SIZE LABEL	LABEL COLOUR	LETTER SIZE		
1 (LHS)	120 x 30	WB	5	TO BLUEGRASS Cct SG923116 FS3/ REEDGRASS Cct 12714491 & SERVICES.	
2 (RHS)	120 x 30	WB	5	TO BLUEGRASS Cct SG923116 FS4/ TREELINE Dr LP12508453/ LP12508448/ 12509002 & SERVICES.	



STATION FROM	STATION TO	CALCULATED	RECORDED
26	400	5,467.75 N	510 KG
400	506	8,490.48 N	525 KG

ERGON ENERGY TO INSTALL/ UPGRADE LABELS AS BELOW:

LOCATION:		STATION:		LABEL INFORMATION	
TREELINE DRIVE		LP12508453			
CIRCUIT No.	LABEL SIZE LABEL	LABEL COLOUR	LETTER SIZE		
1 (LHS)	150 x 50	WB	5	TO BLUEGRASS Cct SG923116 FS4/ TREELINE Dr LP12508448/ 12509002/ LANCEWOOD Ct LP12714490 & SERVICES.	
2 (RHS)	150 x 50	WB	5	EXISTING	

ERGON ENERGY TO INSTALL/ UPGRADE LABELS AS BELOW:

LABEL SIZE	SITE LOCATION FOR ATTACHING OF LABEL	LABEL INFORMATION
300x100	POLE No: 12419121	11kV CABLE TO GAMBIA Dr. RM797326/ LB797327.
	LOCATION: SALT BUSH BLVD, RASMUSSEN, QLD, 4815.	
	MATERIAL: ANODISED ALUMINIUM 1.6mm	

LOCATION:		STATION:		LABEL INFORMATION	
GAMBIA DRIVE		RM797326			
LABEL SIZE	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION	NEAR ISOLATOR	LABEL DESCRIPTION
100 x 40	BW	15	LB797305 LB797325 LB797327 LB797324		FEEDER IDENTIFICATION
150 x 40	BW	20	EXISTING		FRONT
150 x 50	BW	10	EXISTING EXISTING	TO SALT BUSH BLVD NEW POLE STN 506 - 12419121	EXISTING CABLE BOX
150 x 50	BW	10	EXISTING EXISTING	TO SALT BUSH BLVD NEW POLE STN 506 - 12419121	EXISTING INSIDE SIDE WALL

AS CONSTRUCTED

ON COMPLETION, MARK UP THIS. PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER.

CHANGES: YES/NO

**ELECTRICAL CONTRACTOR**  
 NAME: Woodburn Electrical  
 SIGNATURE: Paul Langtree  
 DATE: 17/12/25

**CIVIL CONTRACTOR**  
 NAME: BMD Urban  
 SIGNATURE: Harry Baidmaan  
 DATE: 16/12/25

<p>CLIENT: Urbex 118 Pty Ltd</p> <p>PO Box 6008, TOWNSVILLE, QLD, 4810 Ph: 07 4750 7014 Fax</p> <p>CIVIL ENGINEER Empower Engineers and Project Managers (Townsville)</p> <p>SW PO Box 6008, TOWNSVILLE, QLD, 4810 Ph: 07 4750 7000 Fax</p>	<p><b>spa</b> consulting engineers</p> <p>Tel: (07) 4032 3311 or (07) 4728 3026</p> <p>PO Box 664 North Cairns QLD 4870</p> <p>Email Address: admin@spaconsulting.com.au</p> <p>A business unit of SPA Consulting Engineers (50/51 Pty Ltd) A.B.N. 91 510 844 418</p>	<p><b>TRENCH SECTIONS-LEGEND</b></p> <ul style="list-style-type: none"> <li>⊗ SPARE HV CONDUIT - EXISTING</li> <li>⊗ SPARE HV CONDUIT - PLANNED</li> <li>○ CABLE - PLANNED</li> <li>● CABLE - EXISTING</li> <li>○/AB → CONDUITS - EXISTING</li> <li>○/AB → CONDUITS - PLANNED</li> </ul>	<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>--- ZERO LOT BOUNDARY</li> <li>--- 150mm HV DUCT</li> <li>--- 125mm HV DUCT</li> <li>--- 100mm LV DUCT</li> <li>--- LIGHTING DUCT</li> <li>--- 35mm sq ANNEALED BARE COPPER EARTH</li> <li>--- CABLE EXISTING</li> <li>--- CABLE PLANNED</li> <li>--- CABLE RECOVER</li> <li>--- EQUIPMENT EXISTING</li> <li>--- EQUIPMENT RECOVER</li> <li>--- EQUIPMENT PLANNED</li> <li>□ SUBSTATION</li> <li>□ RING MAIN UNIT</li> <li>□ CROSS ROAD PILLAR</li> <li>□ LINKING PILLAR</li> <li>□ LIGHTING PIT</li> <li>□ CABLE JOINT</li> <li>□ N1, N2, N3, CIA1 &amp; CIA2 PILLARS</li> <li>□ DISTRIBUTION CABINET</li> <li>□ STREETLIGHT</li> <li>□ EARTH</li> <li>○ HV POLE</li> <li>○ LV POLE</li> <li>□ POLE MOUNTED TRANSFORMER</li> </ul>	<p>Drawing Title</p> <p><b>SOMERS &amp; HERVEY STAGE 3A UDC UG ELECTRICAL RETICULATION LIGHTING &amp; CABLE SCHEDULE, HV &amp; LV SCHEMATIC AND LABELS</b></p> <p>Project Description</p> <p><b>SOMERS &amp; HERVEY ESTATE RASMUSSEN</b></p>	<p>Date</p> <p>SEPTEMBER 2024</p> <p>Scale</p> <p>N.T.S</p> <p>Drawn</p> <p>SW</p> <p>RPEQ Design Certification Michael Dayot 29435</p> <p>Sheet</p> <p>4 OF 5</p> <p>ERGON Project Number</p> <p>1946917</p> <p>SPA Drawing Number</p> <p>3907-E04</p> <p>Revision</p> <p>B</p>
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STN NO	SITE LABEL	POLE ALIGNMENT	POLE SETTING DEPTH	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	POSITION ON POLE	REMARKS
16	12508456			EXISTING	EARTH				
16	12508456			EXISTING	PILLAR				POS LOT 116 & 117
16	12508456			INSTALL - ERGON	PILLAR UPGRADE	LV PNU2-3/240	5074		ERGON ENERGY TO UPGRADE PILLAR TO 3-WAY & TERMINATE CABLE FROM STN 16 TO 20.
17	12714487			INSTALL	PILLAR	LV PN3/6S/240	5027		INSTALL PILLAR OFFSET TOWARD LOT 108. REFER TO NOTE 15.
18	12714488			INSTALL	PILLAR	LV PN2/6/240	5026		INSTALL PILLAR OFFSET TOWARD LOT 110. REFER TO NOTE 15.
19	12714489			INSTALL	PILLAR	LV PN2/6/240	5026		
20	LP12714490			INSTALL	EARTH	E MEN/PIL	5085		
20	LP12714490			INSTALL	PILLAR	LV PL2/6S/240	5042		NORMALLY OPEN.
21	LP12714491			INSTALL	EARTH	E MEN/PIL	5085		
21	LP12714491			INSTALL	PILLAR	LV PL2/6/240	5042		NORMALLY OPEN. INSTALL PILLAR OFFSET TOWARD LOT 106. REFER TO NOTE 15.
22	12714492			INSTALL	PILLAR	LV PN2/6S/240	5026		ADDITIONAL 32AMP SL FUSE REQUIRED.
23	12714493			INSTALL	PILLAR	LV PN3/6/240	5027		
24	12714494			INSTALL	EARTH	E MEN/PIL	5085		
24	12714494			INSTALL	PILLAR	LV PN1/6S/240	5025		PILLAR TO BE UPGRADED TO 2-WAY IN FUTURE.
26	RM797326			EXISTING	EARTH				
26	RM797326			INSTALL - ERGON	HV CABLE TERMINATION	11 PM/CTC/ASL/400TI	5245		ERGON ENERGY TO INSTALL HV CABLE TERMINATION FOR CABLE STN 26 TO 506.
26	RM797326			RECOVER - ERGON	HV CABLE TERMINATION				ERGON ENERGY TO RECOVER EXISTING HV CABLE TERMINATION FOR CABLE STN 26 TO 500.
26	RM797326			EXISTING	RMU				
36	12509001			INSTALL - ERGON	ADDITIONAL STREETLIGHT FUSE	SLFUSES	5074		ERGON ENERGY TO INSTALL 32AMP SL FUSE AND TERMINATE CABLE FROM STN 138.
36	12509001			EXISTING	PILLAR				POS LOT 116 & 117
57	12508549			EXISTING	EARTH				
57	12508549			EXISTING	PILLAR				POS LOT 100
57	12508549			INSTALL - ERGON	PILLAR UPGRADE	LV PNU1-2/240	5074		ERGON ENERGY TO UPGRADE PILLAR TO 2-WAY & TERMINATE CABLE FROM STN 57 TO 17.
60	12508552			EXISTING	EARTH				
60	12508552			EXISTING	PILLAR				
60	12508552			INSTALL - ERGON	PILLAR UPGRADE	LV PNU1-2/240	5074		ERGON ENERGY TO UPGRADE PILLAR TO 2-WAY & TERMINATE CABLE FROM STN 60 TO 22.
134	12714495			EXISTING	POLE				
135	12714496	0.8M FROM BOK		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		INSTALL LIGHT POLE OFFSET 2M FROM PROPERTY BOUNDARY TO AVOID SW PIT. REFER TO NOTE 16.
136	12714497	1.05M FROM BOK		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		
137	12714498	1.05M FROM BOK		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		REFER TO NOTE 16.
138	12714499	1.05M FROM BOK		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		INSTALL LIGHT POLE OFFSET 2M FROM PROPERTY BOUNDARY TO AVOID WATER. REFER TO NOTE 16.
139	12714538	1.05M FROM BOK		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		REFER TO NOTE 16.
140	12714539	1.05M FROM BOK		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		REFER TO NOTE 16.
400				INSTALL	CABLE JOINT	111-CJS400T	5074		REFER TO NOTE 17.
500	10391452			RECOVER - ERGON	HV CABLE TERMINATION				ERGON ENERGY TO RECOVER EXISTING HV TERMINATION AS PART OF HEADWORKS.
500	10391452			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
501	10391453			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
502	10391454			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
503	10391455			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
504	10391443			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
505	10391456			RECOVER - ERGON	POLE				ERGON ENERGY TO RECOVER EXISTING POLE AS PART OF HEADWORKS.
506				INSTALL - ERGON	HV CABLE TERMINATION	11 CT P/400T/P	5101		ERGON ENERGY TO INSTALL HV CABLE TERMINATION FOR CABLE STN 506 TO 26 HEADWORKS.
506				INSTALL - ERGON	POLE				ERGON ENERGY TO INSTALL NEW HV-LV TERMINATION POLE AS PART OF HEADWORKS.
507	2002257			EXISTING	POLE				

**AS CONSTRUCTED**

ON COMPLETION, MARK UP THIS. PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER.

CHANGES: YES  NO

**ELECTRICAL CONTRACTOR**  
 NAME: Woodburn Electrical  
 SIGNATURE: Paul Langtree  
 DATE: 17/12/25

**CIVIL CONTRACTOR**  
 NAME: BMD Urban  
 SIGNATURE: Harry Baidmaan  
 DATE: 16/12/25

CLIENT: Urbex 118 Pty Ltd		CIVIL ENGINEER Empower Engineers and Project Managers (Townsville)
PO Box 6008, TOWNSVILLE, QLD 4810 Ph: 07 4750 7014 Fax		
B	17/12/24	AS CONSTRUCTED
A	1/10/24	FOR CONSTRUCTION
Code	Date	Description

**spa**  
consulting engineers

Tel: (07) 4032 3311 or (07) 4728 3026  
 PO Box 664 North Cairns QLD 4870  
 Email Address - admin@spaconconsulting.com.au  
 A business unit of SPA Consulting Engineers (SLO) Pty Ltd. s.s.n. 91 510 844 418

**TRENCH SECTIONS-LEGEND**

- ⊗ SPARE HV CONDUIT - EXISTING
- ⊗ SPARE HV CONDUIT - PLANNED
- CABLE - PLANNED
- CABLE - EXISTING
- AB → CONDUITS - EXISTING
- AB → CONDUITS - PLANNED

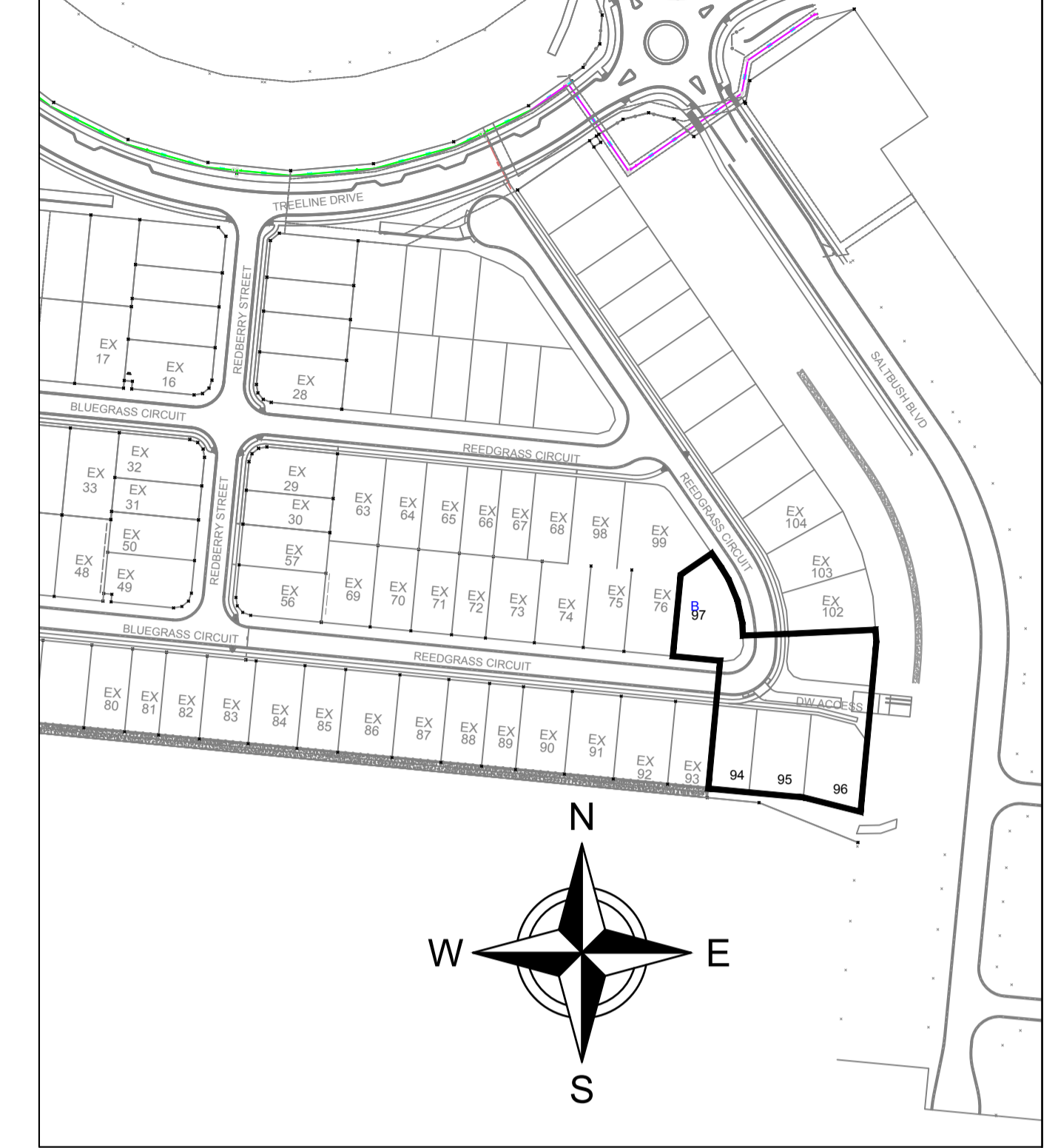
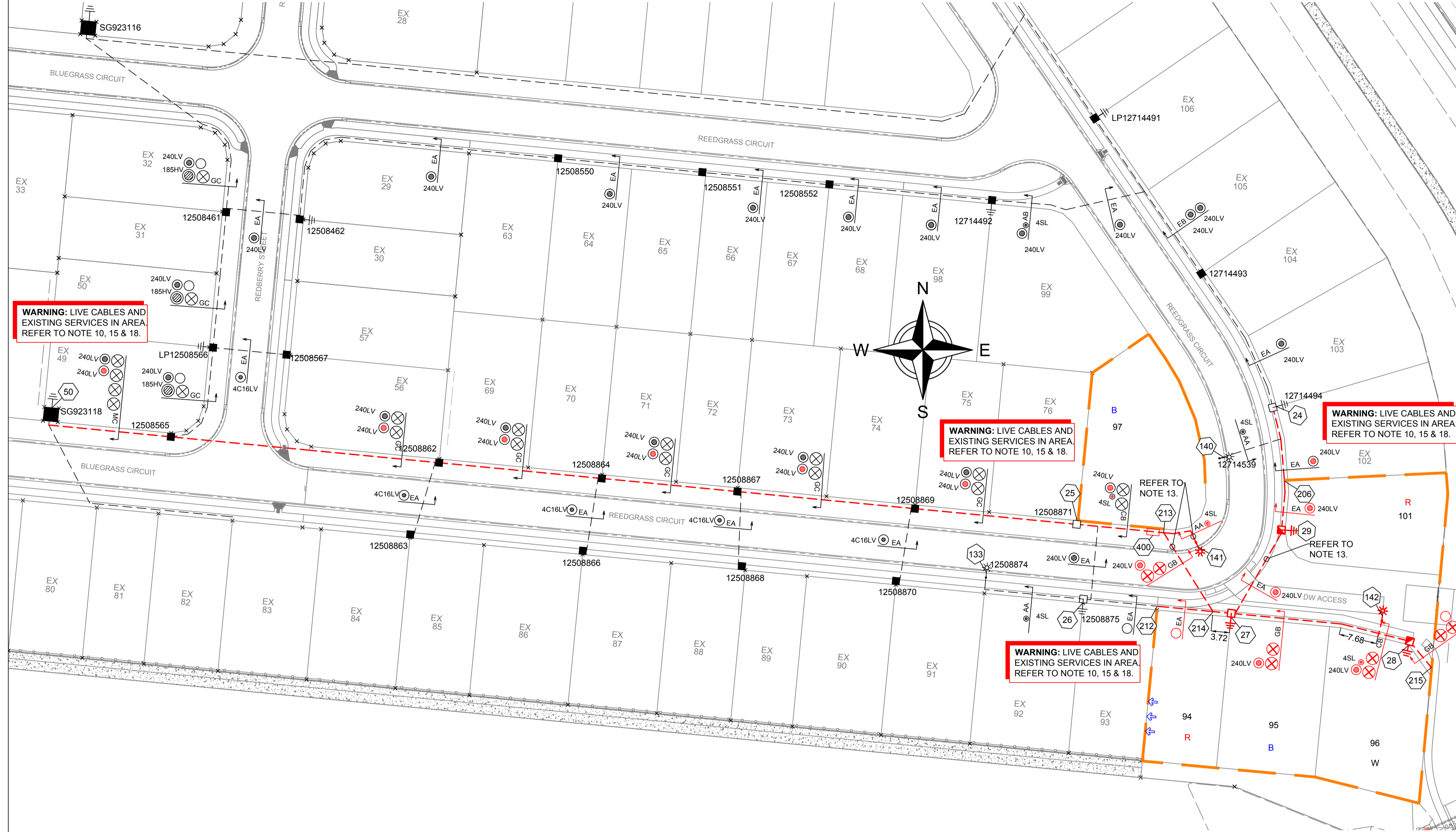
**LEGEND**

- ZERO LOT BOUNDARY
- 150mm HV DUCT
- 125mm HV DUCT
- 100mm LV DUCT
- LIGHTING DUCT
- 35mm sq ANNEALED BARE COPPER EARTH

--- CABLE EXISTING	☑ SUBSTATION	☐ N1, N2, N3, CIA1 & CIA2 PILLARS
--- CABLE PLANNED	☑ RING MAIN UNIT	☑ DISTRIBUTION CABINET
--- CABLE RECOVER	☑ CROSS ROAD PILLAR	☑ STREETLIGHT
--- EQUIPMENT EXISTING	☑ LINKING PILLAR	☑ EARTH
--- EQUIPMENT RECOVER	☑ LIGHTING PIT	○ HV POLE
--- EQUIPMENT PLANNED	☑ CABLE JOINT	● LV POLE
		☑ POLE MOUNTED TRANSFORMER

Drawing Title	Date	SEPTEMBER 2024
SOMERS & HERVEY STAGE 3A UDC UG ELECTRICAL RETICULATION CONSTRUCTION SCHEDULE	Scale	N.T.S
	Drawn	SW
	RPEQ Design Certification Michael Dayot 29435	
	Sheet	5 OF 5
Project Description SOMERS & HERVEY ESTATE RASMUSSEN	ERGON Project Number	SPA Drawing Number
	1946917	3907-E05
		Revision
		B

**SITE PLAN**  
 0 5 10 15 20 25  
 1:500 @ A1



**LOCALITY PLAN**  
N.T.S.

**WARNING: LIVE CABLES AND EXISTING SERVICES IN AREA. REFER TO NOTE 10, 15 & 18.**

**WARNING: LIVE CABLES AND EXISTING SERVICES IN AREA. REFER TO NOTE 10, 15 & 18.**

**WARNING: LIVE CABLES AND EXISTING SERVICES IN AREA. REFER TO NOTE 10, 15 & 18.**

**WARNING: LIVE CABLES AND EXISTING SERVICES IN AREA. REFER TO NOTE 10, 15 & 18.**

**AS CONSTRUCTED**

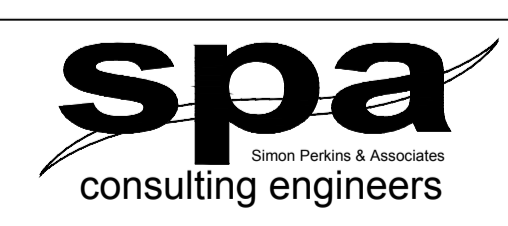
ON COMPLETION, MARK UP THIS, PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER.

CHANGES: YES/NO

**ELECTRICAL CONTRACTOR**  
 NAME: Woodburn Electrical  
 SIGNATURE: Paul Langtree  
 DATE: 18/12/25

**CIVIL CONTRACTOR**  
 NAME: BMD Urban  
 SIGNATURE: Harry Baldman  
 DATE: 16/12/25

STN NO	SITE LABEL	POLE ALIGNMENT	POLE SETTING DEPTH	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	POSITION ON POLE	REMARKS
24	12714494			INSTALL - ERGON	PILLAR UPGRADE	LV PNU1-2/240	5074		ERGON ENERGY TO UPGRADE PILLAR TO 2-WAY AND TERMINATE CABLE FROM STN 24-29.
25	12508871			INSTALL - ERGON	ADDITIONAL STREETLIGHT FUSE	SLFUSES	5074		ERGON ENERGY TO INSTALL ADDITIONAL 32AMP SL FUSE AND TERMINATE SL CABLE FROM STN 141.
50	SG923118			INSTALL - ERGON	LV CABLE TERMINATION	LV CT PM11/240	5087		ERGON ENERGY TO INSTALL LV CABLE TERMINATION FOR CABLE STN 50-27.



**TRENCH SECTIONS-LEGEND**

- ⊗ SPARE HV CONDUIT - EXISTING
- ⊗ SPARE HV CONDUIT - PLANNED
- CABLE - PLANNED
- CABLE - EXISTING
- /AB → CONDUITS - EXISTING
- /AB → CONDUITS - PLANNED

**LEGEND**

- CABLE EXISTING
- - - CABLE PLANNED
- - - CABLE RECOVER
- EQUIPMENT EXISTING
- EQUIPMENT RECOVER
- EQUIPMENT PLANNED
- CABLE JOINT

- SUBSTATION
- RING MAIN UNIT
- CROSS ROAD PILLAR
- LINKING PILLAR
- LIGHTING PIT
- CABLE JOINT
- N1, N2, N3 PILLARS
- DISTRIBUTION CABINET
- STREETLIGHT
- EARTH
- HV/LV POLE
- POLE MOUNTED TRANSFORMER
- CIA1 & CIA2 PILLARS
- LV POLE

Code	Date	Description	Revised
D	17/12/25	AS CONSTRUCTED	MSEW
C	17/7/25	STN 28- UPDATED PILLAR TYPE	SW
B	15/5/25	UPDATED LOT BOUNDARY	SW
A	1/10/24	FOR CONSTRUCTION	SW

CLIENT: Urbex 118 Pty Ltd  
 PO Box 6008, TOWNSVILLE, QLD. 4810  
 Ph: 07 4750 7014 Fax

CIVIL ENGINEER  
 Empower Engineers and Project Managers (Townsville)  
 PO Box 6008, TOWNSVILLE, QLD. 4810  
 Ph: 07 4750 7000 Fax

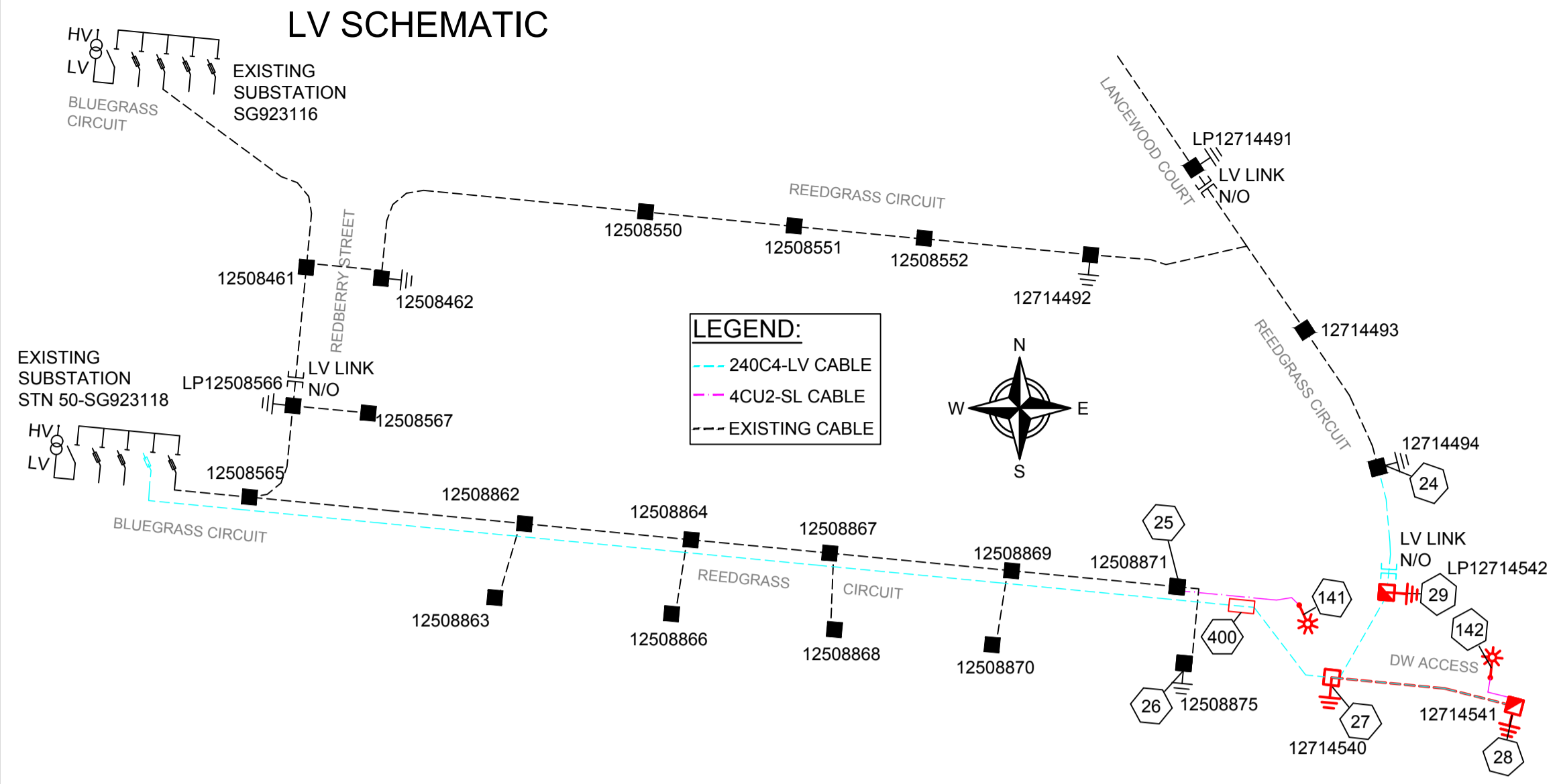
Tel: (07) 4032 3311 or (07) 4728 3026  
 PO Box 664 North Cairns QLD 4870  
 Email Address: admin@spaconsulting.com.au  
 A business unit of SPA Consulting Engineers (S/D) Pty Ltd ABN: 91 510 844 418

Drawing Title  
**SOMERS & HERVEY STAGE 3B**  
**UDC UG ELECTRICAL RETICULATION**  
**SITE PLAN & ERGON WORKS SCHEDULE**

Date: SEPTEMBER 2024  
 Scale: AS SHOWN  
 Drawn: SW  
 RPEQ Design Certification: Michael Dayot 29435  
 Sheet: 1 OF 3

Project Description  
**SOMERS & HERVEY,**  
**RASMUSSEN**

ERGON Project Number: 1946931  
 SPA Drawing Number: 3908-E01  
 Revision: D



STN FROM	STN TO	ACTION	VOLTAGE	CONSTRUCTION CODE	ROUTE LENGTH	CABLE LENGTH	REMARKS
25	141	INSTALL	240V	LVI-4CU2NS/1671	26	31	COIL CABLE AT STN 25 FOR FINAL TERMINATION BY ERGON ENERGY.
27	28	INSTALL	415V	LVI-240C4/1611	36	40	
27	29	INSTALL	415V	LVI-240C4/1611	20	24	
28	142	INSTALL	240V	LVI-4CU2NS/1671	13	18	
29	24	INSTALL	415V	LVI-240C4/1611	26	30	COIL CABLE AT STN 24 FOR FINAL TERMINATION BY ERGON ENERGY. LV LINK.
50	27	INSTALL	415V	LVI-240C4/1611	248	260	COIL CABLE AT STN 50 FOR FINAL TERMINATION BY ERGON ENERGY.

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	No. of LENGTHS / DRUM	BENDS (Degrees/ Radius(mm) x No.)	Remarks
213	214	INSTALL - CIVIL	C100L	20	3.3	45/1830x1 15/1830x5	LOCATE EXISTING CAPPED CONDUIT AT STN 213 AND CONNECT TO NEW. REFER TO NOTE 13.
213	214	INSTALL - CIVIL	C150L	20	3.3	45/1830x1 15/1830x5	LOCATE EXISTING CAPPED CONDUIT AT STN 213 AND CONNECT TO NEW. REFER TO NOTE 13.
213	214	INSTALL - CIVIL	C150L	20	3.3	45/1830x1 15/1830x5	LOCATE EXISTING CAPPED CONDUIT AT STN 213 AND CONNECT TO NEW. REFER TO NOTE 13.

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	No. of LENGTHS / DRUM	BENDS (Degrees/ Radius(mm) x No.)	Remarks
27	28	INSTALL - CIVIL	C100L	36	6.0	45/1200x2 15/1830x1	
27	29	INSTALL - CIVIL	C100L	20	3.3	45/1200x2 45/1830x2 15/1830x4	REFER TO NOTE 13.
28	142	INSTALL - CIVIL	C50H	13	3.3	90/300x2 90/600x1	
28	215	INSTALL - CIVIL	C100L	5	0.8	45/1200x1	CAP CONDUIT AT STN 215.
206	29	INSTALL - CIVIL	35mm2 ANNEALED BARE Cu EARTH	13	0.1		COIL 2M OF CABLE AT STN 29 FOR CONNECTION BY ELECTRICAL CONTRACTOR. LEAVE AT BOTTOM OF TRENCH AT STN 206.
206	29	INSTALL - CIVIL	C100L	11	1.8	45/1200x1 15/1830x1	LOCATE EXISTING CAPPED CONDUIT AT STN 206 AND CONNECT TO NEW.
212	27	INSTALL - CIVIL	C100L	15	2.5		LOCATE EXISTING CAPPED CONDUIT AT STN 212 AND CONNECT TO NEW. CAP CONDUIT AT STN 27.
212	27	INSTALL - CIVIL	35mm2 ANNEALED BARE Cu EARTH	16	0.1		COIL 2M OF CABLE AT STN 27 FOR CONNECTION BY ELECTRICAL CONTRACTOR. LEAVE AT BOTTOM OF TRENCH AT STN 212.
213	141	INSTALL - CIVIL	C50H	10	2.5	90/300x1 90/600x1	LOCATE EXISTING CAPPED CONDUIT AT STN 213 AND CONNECT TO NEW. REFER TO NOTE 13.
214	27	INSTALL - CIVIL	C100L	4	0.7	45/1830x1 45/1200x1	
214	215	INSTALL - CIVIL	C150L	45	7.5	45/1830x1 15/1830x1	CAP CONDUIT AT STN 215.
214	215	INSTALL - CIVIL	C150L	45	7.5	45/1830x1 15/1830x1	CAP CONDUIT AT STN 215.
300	28	INSTALL - CIVIL	35mm2 ANNEALED BARE Cu EARTH	42	0.2		COIL 2M OF CABLE AT STN 28 FOR CONNECTION BY ELECTRICAL CONTRACTOR. LEAVE AT BOTTOM OF TRENCH AT STN 300.

**ERGON ENERGY TO UPDATED EXISTING LABELS AS PER BELOW**

LOCATION:	BLUEGRASS CIRCUIT	SG923118		
CIRCUIT No.	LABEL SIZE LABEL	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1	80 x35	WB	6	EXISTING
2	80 x35	WB	5	EXISTING
3	80 x35	WB	5	TO REEDGRASS Cct 12714540 DIRECT/ LP12714542/ LP12714541 & SERVICES
4	80 x35	WB	5	EXISTING

LOCATION:	LANCEWOOD COURT	LP12714491		
CIRCUIT No.	LABEL SIZE LABEL	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1 (LHS)	150 x 50	WB	5	EXISTING
2 (RHS)	150 x 50	WB	5	TO BLUEGRASS Cct SG923118 FS2/ REDBERRY ST LP12508566/ REEDGRASS Cct LP12714542 & SERVICES

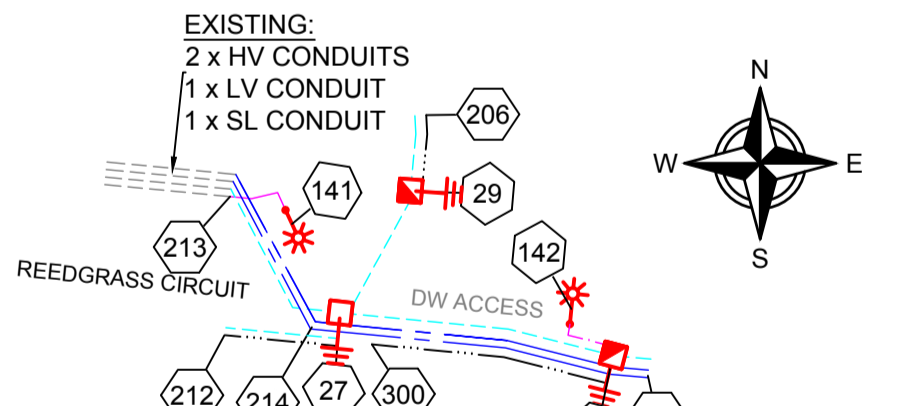
LOCATION:	BLUEGRASS CIRCUIT	SG923118		
CIRCUIT No.	LABEL SIZE LABEL	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1	80 x35	WB	6	EXISTING
2	80 x35	WB	5	TO REDBERRY ST 12508461 DIRECT/ LP12508566/ REEDGRASS Cct LP12714491/ LP12714542 & SERVICES
3	80 x35	WB	5	EXISTING
4	80 x35	WB	5	EXISTING

**CONTRACTOR TO INSTALL LABELS AS PER BELOW**

LOCATION:	REEDGRASS CIRCUIT	STATION: 29 LP12714542		
CIRCUIT No.	LABEL SIZE LABEL	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1 (LHS)	120 x 30	WB	5	TO BLUEGRASS Cct SG923118 FS2/ LANCEWOOD Ct LP12714491/ REDBERRY ST LP12508566 & SERVICES
2 (RHS)	120 x 30	WB	5	TO BLUEGRASS Cct SG923118 FS3/ LP12714541 & SERVICES

LOCATION:	REEDGRASS CIRCUIT	STATION: 28 LP12714541		
CIRCUIT No.	LABEL SIZE LABEL	LABEL COLOUR	LETTER SIZE	LABEL INFORMATION
1 (LHS)	120 x 30	WB	5	FUTURE
2 (RHS)	120 x 30	WB	5	TO BLUEGRASS Cct SG923118 FS3/ LP12714542 & SERVICES

**CONDUIT SCHEMATIC**



NOTE: CONDUITS SHOWN ARE INDICATIVE ONLY. DO NOT USE AS REFERENCE FOR CONDUIT LAYING. REFER TO CONDUIT SCHEDULE FOR STATION TO STATION DETAILS AND CONDUIT BEND INFORMATION. REFER TO SITE PLAN AND WORKPLAN NOTES FOR TRENCH SECTION DETAILS.

CIVIL INSTALLERS NOTE: EACH PILLAR REQUIRES 2 x 50mm LEAD IN CONDUITS. BENDS TO BE INSTALLED AS PER ERGON STANDARD DRAWINGS.

**WORKPLAN NOTES**

- FOR STANDARD UNDERGROUND DUCT SECTIONS REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5168.
- POLYMERIC COVER TO BE INSTALLED OVER CONDUITS OUTSIDE NORMAL ERGON ALIGNMENT AS PER ERGON DRAWING. 5022-1 AND 5124-1 & 2.
- STANDARD TRENCH ALIGNMENT IS 0.3 TO 0.9 METRES OFF PROPERTY ALIGNMENT SUBJECT TO LOCATION OF OTHER SERVICES. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5163 AND DRAWING 5228 FOR TRENCHES WITH NBNC CONDUITS.
- STREETLIGHT POLE FOOTINGS SHALL BE LOCATED PERPENDICULAR TO THE KERB, AT THE PROLONGATION OF THE SIDE PROPERTY BOUNDARY, UNLESS DETAILED OTHERWISE. WHERE DIMENSIONS ARE SHOWN, THEY TAKE PRECEDENCE OVER GRID COORDINATES.
- ALL CONDUITS SHALL BE CONTINUOUS UNLESS DETAILED OTHERWISE.
- FOR STANDARD UDC CONSTRUCTION PRACTICES REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWINGS 5022, 5085 AND 5124.
- MINOR STREETLIGHTS - THE DEVELOPER SHALL SUPPLY AND INSTALL STREETLIGHT BASES. FOUNDATION DEPTH IS 1200mm FOR MINOR STREETLIGHTS. REFER TO LIGHTING CONSTRUCTION MANUAL DRAWING 1-6-4-1 & 2.
- THE LIGHTING DESIGN INCLUDES AN ALLOWANCE FOR CONSTRUCTION TOLERANCE OF LIGHT POLES SUCH THAT ANY STREETLIGHT CAN BE POSITIONED UP TO A MAXIMUM OF ±350mm LONGITUDINALLY FROM THE POSITION SHOWN AND UP TO 100mm MAXIMUM FURTHER AWAY FROM KERB EDGE, INCLUDING POLES WITH GRID COORDINATES, AND STILL MAINTAIN COMPLIANCE.
- CONFIRM ALL CONDUIT AND CABLE LENGTHS PRIOR TO INSTALLATION.
- IN ACCORDANCE WITH ELECTRICAL SAFETY ACT, A SAFETY OBSERVER MUST BE PRESENT AT ALL TIMES WHEN WORKING IN THE VICINITY OF ENERGISED CABLES. CONTACT ERGON ENERGY ON 131046.
- WHERE SHOWN, 35mm sq ANNEALED BARE Cu EARTH SHALL BE INSTALLED AT BOTTOM OF TRENCH, IN NATURAL SOIL, BELOW BEDDING SAND, LOCATED A MINIMUM OF 50mm HORIZONTALLY TOWARDS PROPERTY BOUNDARY FROM CONDUITS (HV OR LV) INSTALLED ON PROPERTY BOUNDARY SIDE OF TRENCH. COIL 2m OF CABLE AT SPECIFIED STATIONS IN THE CONDUIT DUCTING SCHEDULE AND ALL REQUIRED JOINTS FOR CONNECTION BY ELECTRICAL CONTRACTOR. THE USE OF THE EARTH ROD CONNECTOR (U-BOLT, IIN, 0719437) IS NOT ACCEPTABLE FOR CONDUCTOR / CABLE TO CONDUCTOR / CABLE CONNECTIONS. IN ADDITION PARALLEL GROOVE CLAMPS ARE NOT ACCEPTABLE FOR JOINING OR CONNECTING EARTHS BELOW GROUND LEVEL. ACCEPTABLE METHODS SHALL BE EITHER A CRIMP LINK OR A 'C' TYPE COMPRESSION CONNECTOR. CRIMP LINKS AND 'C' TYPE COMPRESSION CONNECTORS ARE AVAILABLE FROM ERGON ENERGY STORES IIN, 0157746 AND IIN, 2406222 RESPECTIVELY.
- ELECTRONIC CABLE MARKERS (ECM'S) ARE TO BE SUPPLIED BY THE ELECTRICAL CONTRACTOR AND ARE REQUIRED AT ENDS OF ALL SPARE CONDUITS AND AT ALL CABLE JOINTS. ECM'S SHALL BE PLACED 150mm ABOVE THE LINE OF CONDUIT FOR CABLE JOINTS AND 150mm ABOVE THE LINE OF CONDUIT FOR SPARE CONDUITS. ECM'S ARE RECOVERABLE AND SHALL BE REMOVED AND RETURNED TO THE ELECTRICAL CONTRACTOR WHEN ALL SPARE CONDUIT ENDS ARE REMOVED FROM A LOCATION.
- WHERE NOTED ON THE DESIGN, ELECTRICAL CONDUITS SHALL BE INSTALLED UNDERNEATH STORMWATER PIPES WHERE CLASHES OCCUR. SEPARATION FROM BOTTOM OF STORMWATER PIPE TO TOP OF ERGON CONDUIT SHALL BE NO LESS THAN 300mm.
- ADDITIONAL CONDUIT BENDS SHALL BE INSTALLED TO ACHIEVE INCREASED BURIAL DEPTH AT ROAD CROSSINGS. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5022.
- ALL CONTRACTORS MUST CARRY OUT A DIAL BEFORE YOU DIG ENQUIRY BEFORE COMMENCING ANY EXCAVATION.
- INSTALL PILLAR OFFSET IN ACCORDANCE WITH ERGON DRAWING 5196-2 & DETAIL A.
- CONTRACTOR TO SUPPLY AND INSTALL ENGRAVED LABEL LOCATED ON LIGHTING TERMINAL STATING "LIGHT FED FROM PILLAR ASSET NUMBER \_\_\_\_\_".
- WARNING:** LIVE CABLES AND EXISTING SERVICES IN AREA. CONTRACTOR TO USE POT HOLING, HYDRO-VAC EXCAVATION AND CABLE LOCATION WHEN INSTALLING NEW INFRASTRUCTURE.
- WHERE REQUIRED CONTRACTOR TO INSTALL JOINT AT STN 400 WITH A 2m x 6m SAND PIT FOR ACCESS. CONTRACTOR TO MONITOR PULLING TENSIONS TO DETERMINE IF JOINT REQUIRED. ADDITIONAL LUBRICATION PITS MAYBE REQUIRED ON SITE FOR THESE PULLS. ELECTRICAL CONTRACTOR TO CONFIRM WITH CIVIL CONTRACTOR AT PRESTART MEETING WHERE AND IF SAND PITS ARE REQUIRED.

**LV PULLING TENSION CALCULATED AND RECORDED**

STATION FROM	STATION TO	CALCULATED	RECORDED
50	27	6,865.09 N	540 KG
50	400	3,748.61 N	N/A
400	27	388.16 N	N/A

Code	Date	Description	Revised
D	17/12/25	AS CONSTRUCTED	MSEW
C	17/12/25	STN 28- UPDATED PILLAR TYPE	SW
B	15/9/25	UPDATED LOT BOUNDARY	SW
A	1/10/24	FOR CONSTRUCTION	SW

**spa**  
consulting engineers

Simon Perkins & Associates  
PO Box 6608, TOWNSVILLE, QLD 4810  
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Email Address: admin@spaconconsulting.com.au  
A business unit of SPA Consulting Engineers (Pty) Ltd. s.a.s. 91 510 844 418

**TRENCH SECTIONS-LEGEND**

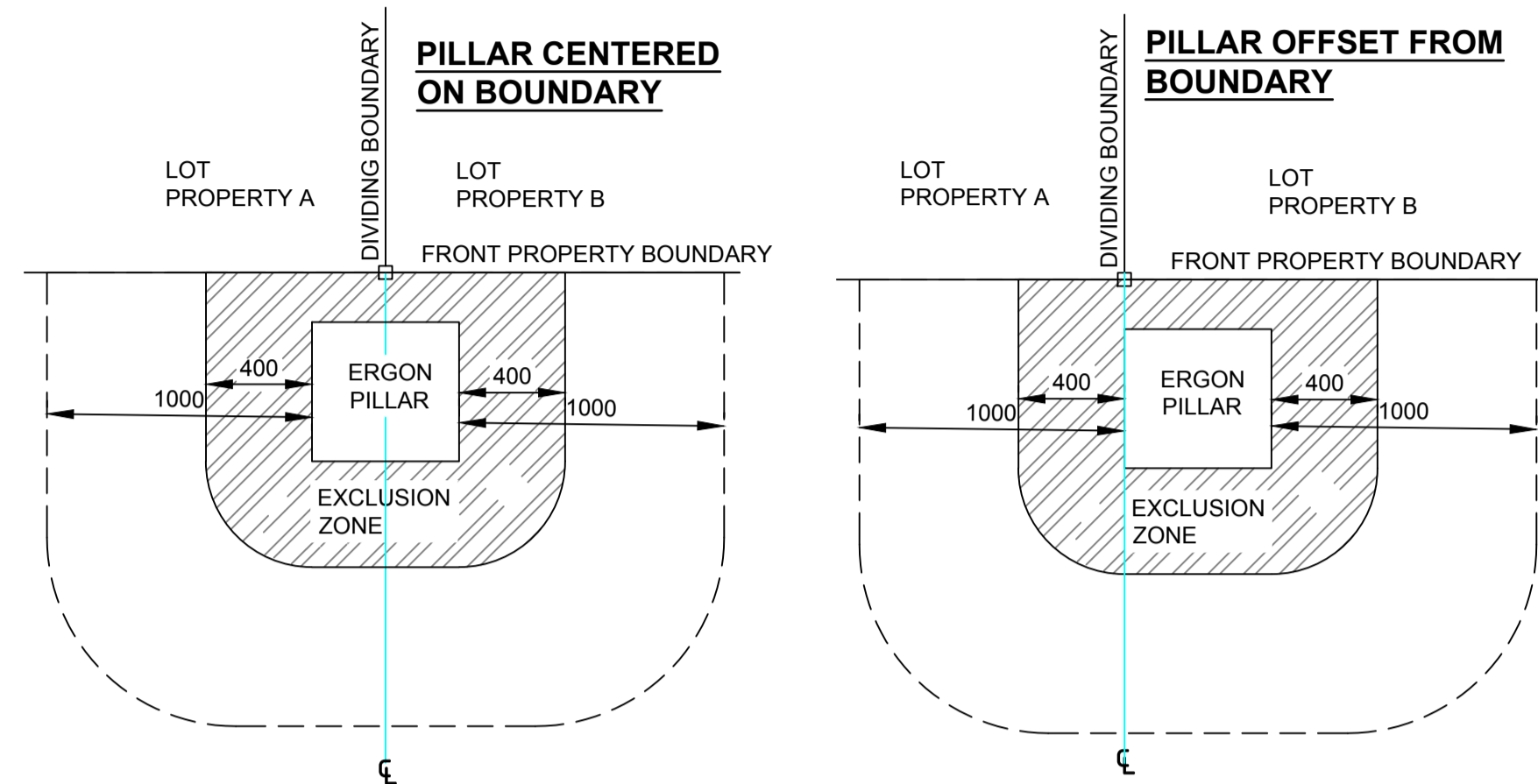
- ⊗ SPARE HV CONDUIT - EXISTING
- ⊗ SPARE HV CONDUIT - PLANNED
- CABLE - PLANNED
- CABLE - EXISTING
- AB → CONDUITS - EXISTING
- AB → CONDUITS - PLANNED

**LEGEND**

- CABLE EXISTING
- CABLE PLANNED
- CABLE RECOVER
- EQUIPMENT EXISTING
- EQUIPMENT RECOVER
- EQUIPMENT PLANNED
- ZERO LOT BOUNDARY
- 150mm HV DUCT
- 125mm HV DUCT
- 100mm LV DUCT
- LIGHTING DUCT
- 35mm sq ANNEALED BARE COPPER EARTH

- ⊠ SUBSTATION
- ⊠ RING MAIN UNIT
- ⊠ CROSS ROAD PILLAR
- ⊠ LINKING PILLAR
- ⊠ LIGHTING PIT
- ⊠ CABLE JOINT
- N1, N2, N3 PILLARS
- ⊠ DISTRIBUTION CABINET
- ⊠ STREETLIGHT
- ⊠ EARTH
- ⊠ HV/LV POLE
- ⊠ POLE MOUNTED TRANSFORMER
- ⊠ CIA1 & CIA2 PILLARS
- ⊠ HV POLE
- LV POLE

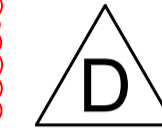
Date	SEPTEMBER 2024
Scale	N.T.S
Drawn	SW
RPEQ Design Certification	Michael Dayot 29435
Sheet	2 OF 3
Project Description	SOMERS & HERVEY, RASMUSSEN
ERGON Project Number	1946931
SPA Drawing Number	3908-E02
Revision	D



**DETAIL A: PILLAR LOCATION CLEARANCE FROM LOT ACCESS**

- PILLAR TO BE INSTALLED OFFSET FROM PROPERTY BOUNDARY TOWARD ADJACENT LOT, UNLESS DRIVEWAY ACCESSES FOR BOTH LOTS ARE LOCATED ON THE COMMON BOUNDARY.
- EDGE OF PILLAR CANNOT BE LOCATED MORE THAN 100mm FROM PROPERTY BOUNDARY PEG.
- DRIVEWAY ACCESS TO LOTS CANNOT BE LOCATED WITHIN 1m OF THE EDGE OF PILLAR, AS SHOWN.

STN NO	SITE LABEL	POLE ALIGNMENT	POLE SETTING DEPTH	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	POSITION ON POLE	REMARKS
24	12714494			EXISTING	EARTH				
24	12714494			EXISTING	PILLAR				
24	12714494			INSTALL - ERGON	PILLAR UPGRADE	LV PNU1-2/240	5074		ERGON ENERGY TO UPGRADE PILLAR TO 2-WAY AND TERMINATE CABLE FROM STN 24-29.
25	12508871			INSTALL - ERGON	ADDITIONAL STREETLIGHT FUSE	SLFUSES	5074		ERGON ENERGY TO INSTALL ADDITIONAL 32AMP SL FUSE AND TERMINATE SL CABLE FROM STN 141.
25	12508871			EXISTING	PILLAR				POS LOT 97.
26	12508875			EXISTING	EARTH				
26	12508875			EXISTING	PILLAR				
27	12714540			INSTALL	EARTH	E MEN/PIL	5085		
27	12714540			INSTALL	PILLAR	LV PN3/6/240	5027		
28	LP12714541			INSTALL	EARTH	E MEN/PIL	5085		
28	LP12714541			INSTALL	PILLAR	LV PL2/6S/240	5042		INSTALL PILLAR ON PROPERTY BOUNDARY TRUNCATION. REFER TO NOTE 16. NORMALLY OPEN TO FUTURE.
29	LP12714542			INSTALL	EARTH	E MEN/PIL	5085		
29	LP12714542			INSTALL	PILLAR	LV PL2/6/240	5042		NORMALLY OPEN.
50	SG923118			EXISTING	EARTH				
50	SG923118			INSTALL - ERGON	LV CABLE TERMINATION	LV CT PM11/240	5087		ERGON ENERGY TO INSTALL LV CABLE TERMINATION FOR CABLE STN 50-27.
50	SG923118			EXISTING	SUBSTATION INC HV SWITCHGEAR				
133	12508874			EXISTING	POLE				
140	12714539			EXISTING	POLE				
141	12714543	0.8M FROM BOK		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		
142	12714544	1.3M FROM EOB		INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		INSTALL LIGHT POLE AS DIMENSIONED.
400				INSTALL	CABLE JOINT	LVI-CJS240C4	5073		REFER TO NOTE 19.



**SPA LIGHTING DESIGN COMPLIANCE CERTIFICATE**

THIS LIGHTING DESIGN COMPLIES GENERALLY WITH THE NOMINATED CATEGORIES OF AS1158 FOR RATE 1 AND RATE 2 LUMINAIRES.

NAME: Michael Dayot TITLE: ENGINEER RPEQ: 29435

LIGHTING CATEGORIES: CATEGORY PR5 LOCAL COUNCIL: TOWNSVILLE CITY COUNCIL LUMINAIRE UPGRADE: 0 DEGREES UPGRADE ANGLE MAINTENANCE FACTOR: 0.75

THE DESIGN ASSUMES MAINTENANCE FACTORS OF 0.75 FOR MINOR ROAD LIGHTING AND 0.75 FOR MAJOR ROAD LIGHTING. THESE MAINTENANCE FACTORS ARE BASED ON THE FOLLOWING MAINTENANCE SCHEDULE, WHICH MIGHT NOT NECESSARILY BE ADOPTED BY ERGON.

- LAMPS SHALL BE REPLACED AT 36- MONTH INTERVALS.
- ALL THAT TIME, LUMINAIRES SHALL BE CLEANED, INSPECTED AND MAINTAINED.
- VEGETATION SHALL BE KEPT CLEAR OF STREET LIGHTS.
- INSPECTION PATROLS AND SPOT LAMP REPLACEMENT SHALL MAINTAIN SERVICE AVAILABILITY AT NO LESS THAN 95%.
- LUMINAIRES AND LAMPS SHALL BE REPLACED WITH EXACT EQUIVALENTS.

ALL LIGHTING CALCULATIONS ARE AVAILABLE UPON REQUEST.

FOR LIGHTING ARRANGEMENT, SPACINGS, MOUNTING HEIGHTS, OUTREACH DETAILS AND SIGNIFICANT ROAD FEATURES, REFER TO DRAWING.

STN NO	SITE LABEL	ACTION	CONSTRUCTION CODE	RATE	TARIFF OWNER	MOUNTING HEIGHT (m)	REMARKS
133	12508874	EXISTING					
140	12714539	EXISTING					
141	12714543	INSTALL	SLED SY 0137 N	RATE 2	TCC	7.5	
142	12714544	INSTALL	SLED SY 0137 N	RATE 2	TCC	7.5	

Code	Date	Description	Revised
D	17/12/25	AS CONSTRUCTED	MSEW
C	17/7/25	STN 28- UPDATED PILLAR TYPE	SW
B	15/5/25	FOR CONSTRUCTION- NO CHANGE	SW
A	1/10/24	FOR CONSTRUCTION	SW

**spa consulting engineers**

Simon Perkins & Associates

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Email Address - admin@spaconsulting.com.au  
A business unit of SPA Consulting Engineers (SOL) Pty Ltd. s.n.o. 91 510 844 418

**TRENCH SECTIONS-LEGEND**

- ⊗ SPARE HV CONDUIT - EXISTING
- ⊗ SPARE HV CONDUIT - PLANNED
- CABLE - PLANNED
- CABLE - EXISTING
- AB → CONDUITS - EXISTING
- AB → CONDUITS - PLANNED

**LEGEND**

- ZERO LOT BOUNDARY
- 150mm HV DUCT
- 125mm HV DUCT
- 100mm LV DUCT
- LIGHTING DUCT
- 35mm sq ANNEALED BARE COPPER EARTH
- CABLE EXISTING
- CABLE PLANNED
- CABLE RECOVER
- EQUIPMENT EXISTING
- EQUIPMENT RECOVER
- EQUIPMENT PLANNED
- SUBSTATION
- RING MAIN UNIT
- CROSS ROAD PILLAR
- LINKING PILLAR
- LIGHTING PIT
- CABLE JOINT
- N1, N2, N3 PILLARS
- DISTRIBUTION CABINET
- STREETLIGHT
- EARTH
- HV/LV POLE
- POLE MOUNTED TRANSFORMER
- CIA1 & CIA2 PILLARS
- HV POLE
- LV POLE

**AS CONSTRUCTED**

ON COMPLETION, MARK UP THIS, PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO PROJECT MANAGER.

CHANGES: YES/NO

**ELECTRICAL CONTRACTOR**  
NAME: Woodburn Electrical  
SIGNATURE: Paul Langtree  
DATE: 18/12/25

**CIVIL CONTRACTOR**  
NAME: BMD Urban  
SIGNATURE: Harry Baldman  
DATE: 16/12/25

Project Description: SOMERS & HERVEY, RASMUSSEN

ERGON Project Number: 1946931 SPA Drawing Number: 3908-E03 Revision: D