

PROJECT NOTES

1. DOCUMENTS TO BE READ IN CONJUNCTION WITH DRAWING:
 - DESIGNER SAFETY REPORT
 - ENVIRONMENTAL IMPACT ASSESSMENT
 - DIAL BEFORE YOU DIG. DBYD IS VALID FOR 30 DAYS.
2. CONSTRUCTION NEEDS TO BE IN COMPLIANCE WITH:
 - THE DESIGN PARAMETERS OF THIS DRAWING
 - ALL RELEVANT ACTS AND REGULATIONS
 - WORKCOVER NSW STANDARDS AND GUIDELINES
 - ENVIRONMENTAL PROTECTION AGENCY STANDARDS AND PROTOCOLS
 - ESSENTIAL ENERGY ENVIRONMENTAL PROCEDURES
 - ESSENTIAL ENERGY CONSTRUCTION GUIDELINES
 - ESSENTIAL ENERGY CODES OF PRACTICE
3. THE LEVEL 1 CONTRACTOR IS RESPONSIBLE FOR:
 - ORGANISING TRAFFIC CONTROL
 - ORGANISING TEMPORARY FENCING
 - ARRANGING THE SHUTDOWN
 - OBTAINING ALL NECESSARY PERMITS
 - ADHERENCE TO ESSENTIAL ENERGY AND WORKSAFE REGULATIONS
 - ATTACHING CABLE DESTINATION TAGS
4. ALL CIVIL WORKS TO BE CARRIED OUT BY A LICENSED CONTRACTOR. TRENCHES TO BE DUG AND RE-INSTATED IN ACCORDANCE WITH CEOM7098.
5. ALL TRAFFIC CONTROL TO BE CARRIED OUT BY A LICENSED CONTRACTOR.
6. ALL RETIRED MATERIALS TO BE RETURNED TO THE ESSENTIAL ENERGY DEPOT NOMINATED ON THE DRAWING.
7. ALL UNDERGROUND ELECTRICAL ASSETS TO BE INSTALLED IN ACCORDANCE WITH CEOM7098. ALL CLEARANCES TO UTILITIES TO COMPLY WITH CEOM7098.
8. CABLE OFFSET TO BE WITHIN 0-1000mm FROM PROPERTY BOUNDARY AS PER COUNCIL REQUIREMENTS.
9. STREET LIGHTING TO BE INSTALLED 800mm FROM FACE OF POLE TO BACK OF KERB AS PER COUNCIL REQUIREMENTS.
10. ALL OVERHEAD ELECTRICAL ASSETS TO BE INSTALLED IN ACCORDANCE WITH CEOM7097. ALL CLEARANCES TO BE IN ACCORDANCE WITH RELEVANT CONSTRUCTION STANDARDS.
11. ALL WORK TO BE CONDUCTED IN A SAFE MANNER AND IN ACCORDANCE WITH OH&S REGULATIONS.
12. ANY CHANGES TO THE DESIGN MUST BE APPROVED BY BOSCHETTI INDUSTRIES AND SIGNED OFF BY ESSENTIAL ENERGY.

LOT 156 / DP1241038
 DURIFF DRIVE MOAMA NSW 2731
 ESSENTIAL ENERGY PROJECT ID - 121435
 17 LOT SUBDIVISION - LAKEVIEW ESTATE STAGE 11
 CUSTOMER - VILLAWOOD PROPERTIES
 CUSTOMER CONTACT - NEIL BOWE (03) 5442 5799

LEGEND

	EXISTING STREETLIGHT		EXISTING PADMOUNT SUBSTATION
	NEW STREETLIGHT		EXISTING PILLAR
	NEW PILLAR		NEW LINK PILLAR
	NEW PIT		EXISTING LINK PILLAR
	EXISTING PIT		LV LINK CLOSED
	NEW HV STRAIGHT JOINT		LV LINK OPEN
	EXISTING HV CONDUCTOR		
	NEW HV CABLE		
	EXISTING HV CABLE		
	NEW LV CABLE		
	EXISTING LV CABLE		
	EXISTING STREETLIGHT CABLE		
	NEW STREETLIGHT CABLE		
	CONDUIT		
	EASEMENT		
	OTHER SERVICES - GAS		
	OTHER SERVICES - SEWER		
	OTHER SERVICES - TELEPHONE LINE		
	OTHER SERVICES - WATER MAIN		
	OTHER SERVICES - STORM WATER		



INDEX

SHEET No.	CONTENTS
1	SITE PLAN LEGEND PROJECT NOTES
2	DESIGN INFORMATION
3	TRENCH SECTIONS
4	LV SCHEMATICS HV SCHEMATIC

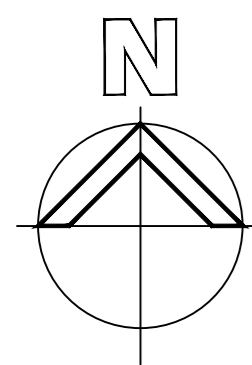
NOTES:
 1. DESIGNER SAFETY REPORT TO BE READ IN CONJUNCTION WITH DRAWING.
 2. ENVIRONMENTAL ASSESSMENT TO BE READ IN CONJUNCTION WITH DRAWING.
 3. DIAL BEFORE YOU DIG TO BE READ IN CONJUNCTION WITH DRAWING. DBYD IS VALID FOR 30 DAYS.
 4. LOCATIONS OF UNDERGROUND ASSETS TO BE CONFIRMED BY APPROVED CONTRACTOR.
 5. TRAFFIC CONTROL TO BE CARRIED OUT BY APPROVED CONTRACTOR.
 6. ALL HV AND LV CABLES TO BE INSTALLED WITHIN 0-1000mm OFFSET FROM BUILDING LINE
 7. ALL STREET LIGHTING TO BE INSTALLED MINIMUM 800mm FROM FACE TO BACK OF KERB.
 8. MINIMUM CLEARANCES TO BE MAINTAINED BETWEEN ELECTRICAL ASSETS AND OTHER UTILITIES.

REVISIONS:
 REV A: INITIAL SUBMISSION 03.09.2020

PRELIMINARY DRAWING

VILLAWOOD PROPERTIES
 17 LOT RESIDENTIAL SUBDIVISION
 LAKEVIEW ESTATE STAGE 11
 HERMITAGE DR, MOAMA NSW

REVISION	SHEET SIZE	
A	A0	
DRAWING NAME/No. 121435		
SHEET: 1 OF 4		
ASP ACCREDITATION No. 4628	DATE PRINTED: 03.09.2020	
LAST SAVED TIME: 10:00AM	SCALE: N/A	
LAST SAVED DATE: 03.09.2020		



RETURNED MATERIAL SCHEDULE		
RETURN TO DEPOT	CONTACT	PHONE
DENLIQUIN	PETER O'BRYAN	03 5881 9553

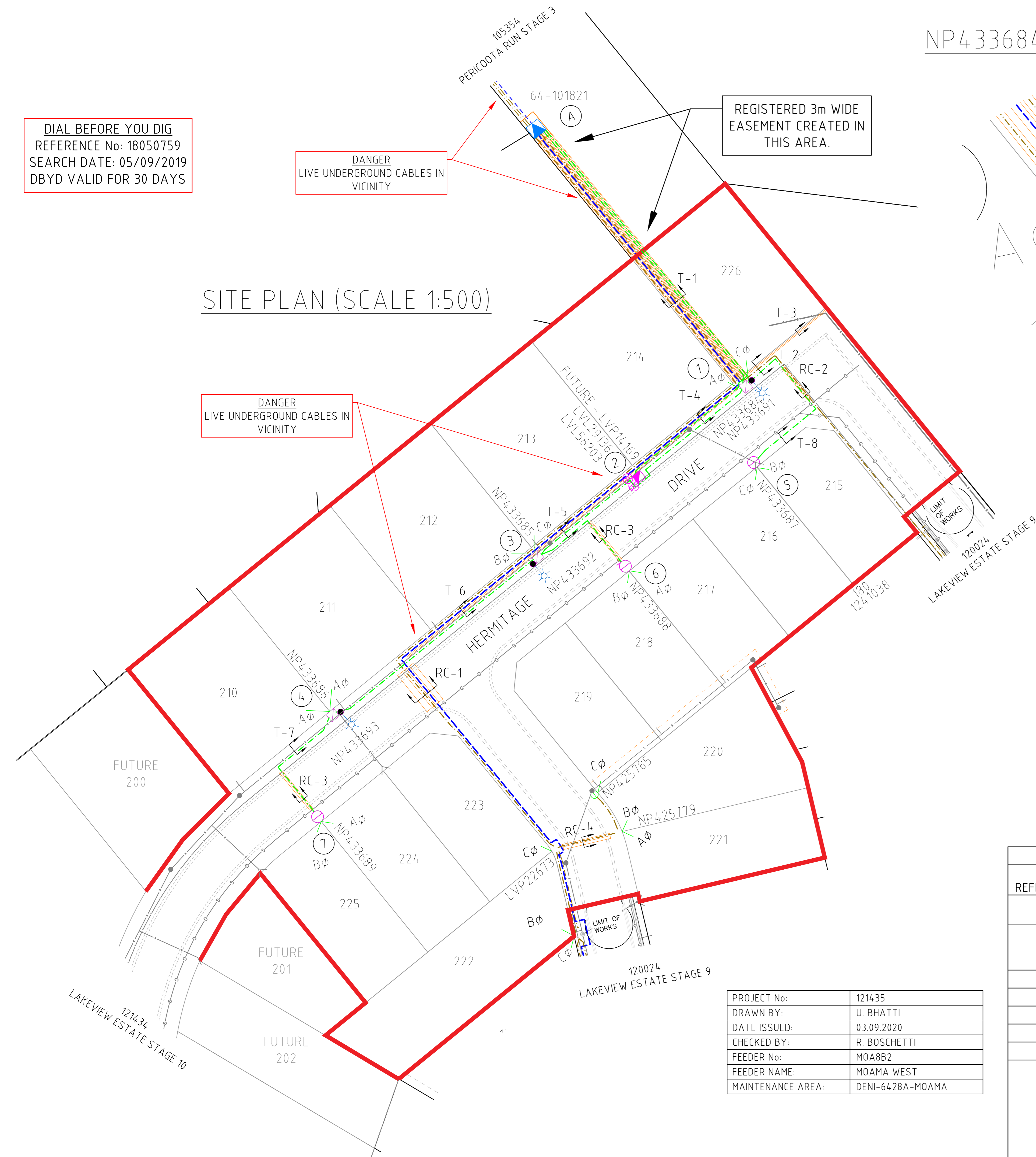
STREET LIGHT SCHEDULE				
FROM REFERENCE No.	FROM ASSET ID	TO ASSET ID	CONSTRUCTION NOTES	LENGTH
1	NP433684	NP433691	INSTALL NEW 2c 16mm Cu STREET LIGHT CABLE IN 50mm HD CONDUIT	7m
3	NP433685	NP433692	INSTALL NEW 2c 16mm Cu STREET LIGHT CABLE IN 50mm HD CONDUIT	5m
4	NP433686	NP433693	INSTALL NEW 2c 16mm Cu STREET LIGHT CABLE IN 50mm HD CONDUIT	5m

DIAL BEFORE YOU DIG
 REFERENCE No: 18050759
 SEARCH DATE: 05/09/2019
 DBYD VALID FOR 30 DAYS

DANGER
 LIVE UNDERGROUND CABLES IN VICINITY

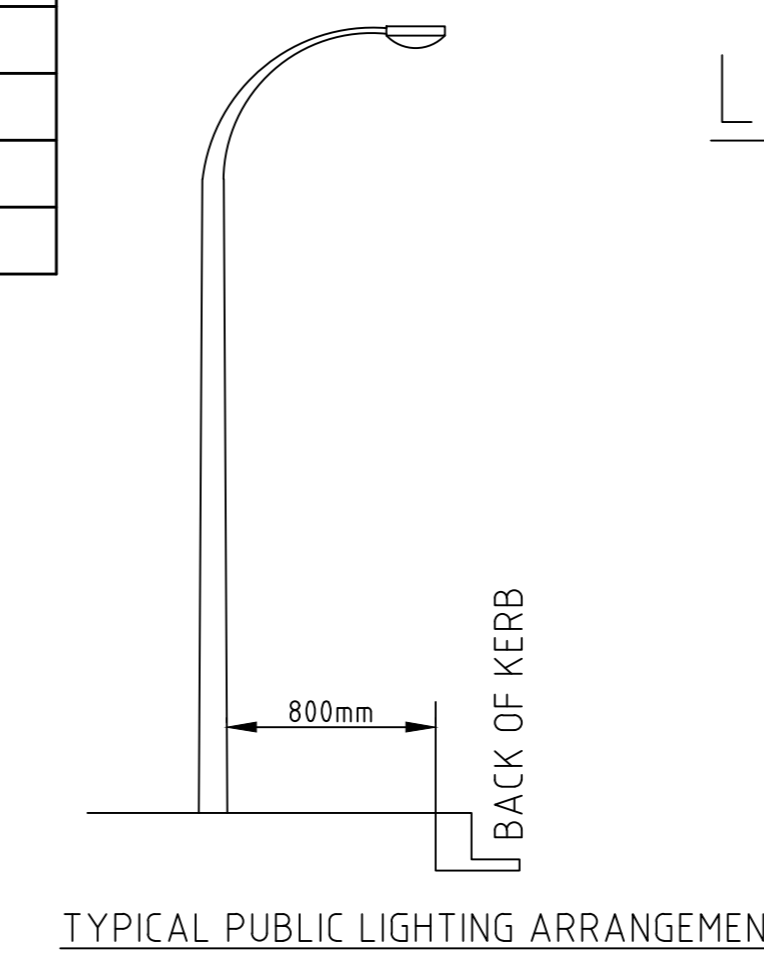
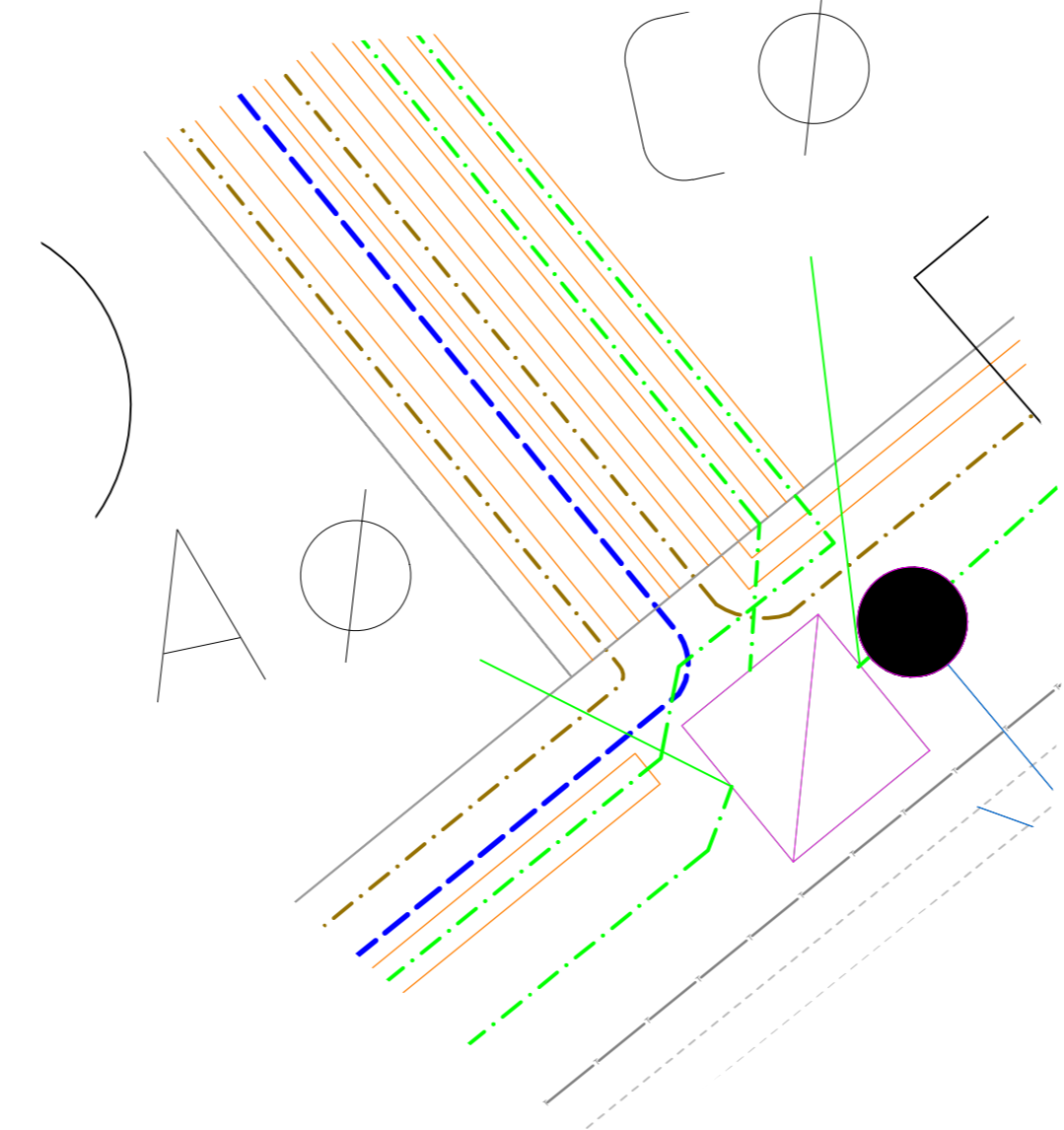
SITE PLAN (SCALE 1:500)

DANGER
 LIVE UNDERGROUND CABLES IN VICINITY

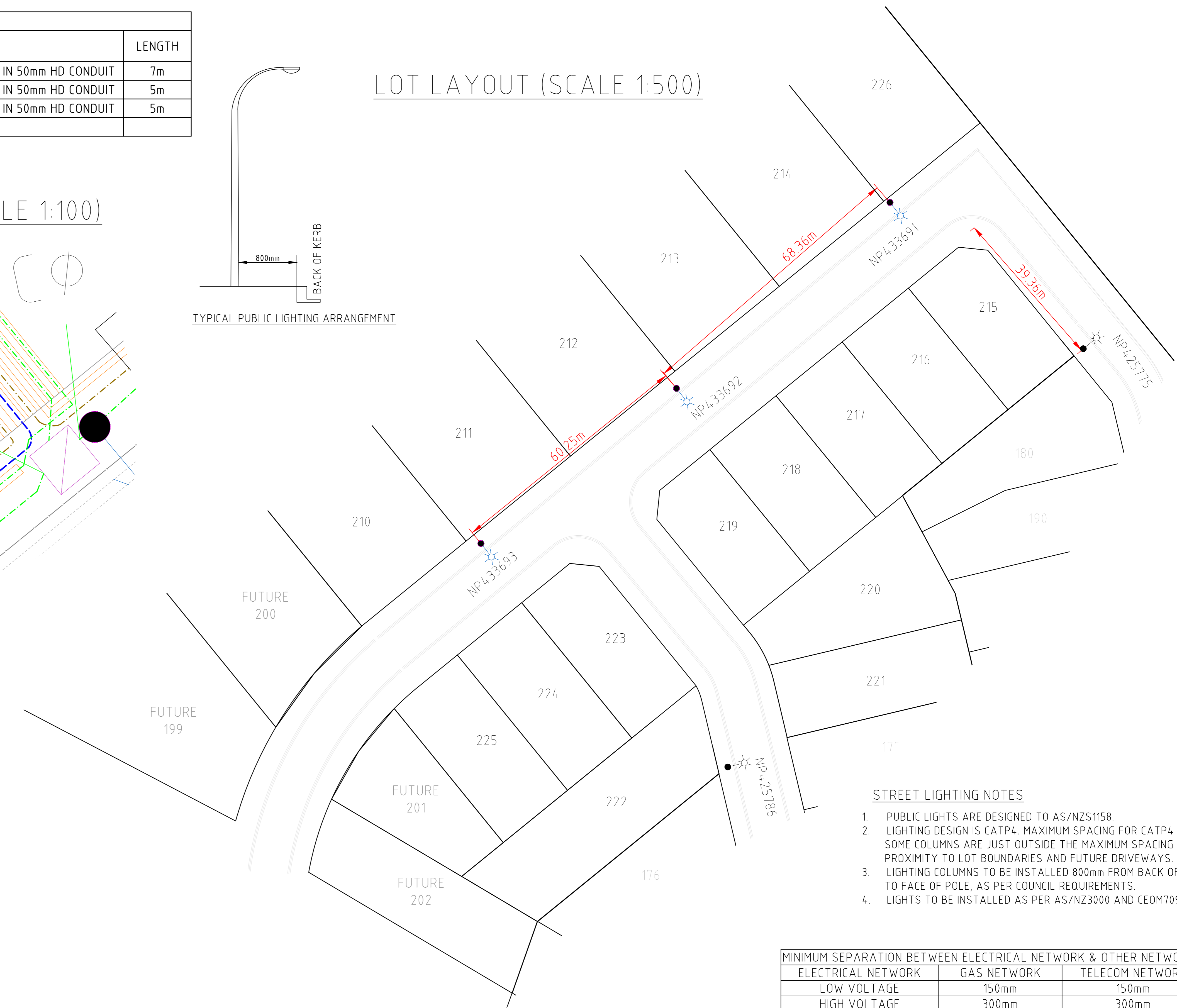


PROJECT No:	121435
DRAWN BY:	U. BHATTI
DATE ISSUED:	03.09.2020
CHECKED BY:	R. BOSCHETTI
FEEDER No:	MOA882
FEEDER NAME:	MOAMA WEST
MAINTENANCE AREA:	DENI-6428A-MOAMA

NP433684 (SCALE 1:100)



LOT LAYOUT (SCALE 1:500)



STREET LIGHTING NOTES

- PUBLIC LIGHTS ARE DESIGNED TO AS/NZS1158.
- LIGHTING DESIGN IS CATP4. MAXIMUM SPACING FOR CATP4 IS 4.9m. SOME COLUMNS ARE JUST OUTSIDE THE MAXIMUM SPACING DUE TO PROXIMITY TO LOT BOUNDARIES AND FUTURE DRIVEWAYS.
- LIGHTING COLUMNS TO BE INSTALLED 800mm FROM BACK OF KERB TO FACE OF POLE, AS PER COUNCIL REQUIREMENTS.
- LIGHTS TO BE INSTALLED AS PER AS/NZ3000 AND CEOM7098

MINIMUM SEPARATION BETWEEN ELECTRICAL NETWORK & OTHER NETWORKS		
ELECTRICAL NETWORK	GAS NETWORK	TELECOM NETWORK
LOW VOLTAGE	150mm	150mm
HIGH VOLTAGE	300mm	300mm

UNDERGROUND CABLE AND CONDUIT SCHEDULE					
FROM REFERENCE No.	FROM ASSET ID	TO REFERENCE No.	TO ASSET ID	CONSTRUCTION NOTES	LENGTH
A	64-101821	1	NP433684	INSTALL NEW 4c 240mm Al XLPE LV CABLE - CONNECT TO LVF42898	85m
A	64-101821	2	LVP14169	INSTALL NEW 4c 240mm Al XLPE LV CABLE - CONNECT TO LVF42897	120m
1	NP433684	3	NP433685	INSTALL NEW 4c 240mm Al XLPE LV CABLE	70m
1	NP433684	5	NP433687	INSTALL NEW 4c 50mm Cu XLPE LV CABLE	45m
3	NP433685	4	NP433686	INSTALL NEW 4c 240mm Al XLPE LV CABLE	65m
3	NP433685	6	NP433688	INSTALL NEW 4c 50mm Cu XLPE LV CABLE	30m
4	NP433686	7	NP433689	INSTALL NEW 4c 50mm Cu XLPE LV CABLE	35m
			T-2	EXISTING 1 x SPARE 125mm CONDUIT	10m
			T-3	EXISTING 1 x SPARE 125mm CONDUIT	20m
			T-4	EXISTING 3 x SPARE 125mm CONDUIT	35m
			T-5	EXISTING 4 x SPARE 125mm CONDUIT	33m
			T-6	EXISTING 3 x SPARE 125mm CONDUIT	45m
			RC-1	1 x SPARE 125mm CONDUIT	20m
			RC-2	EXISTING 1 x SPARE 125mm CONDUIT	20m
			RC-3	1 x SPARE 125mm CONDUIT	20m

STREET LIGHTING SCHEDULE			
ASSET LABEL	STANDARD DRAWING	CONSTRUCTION NOTES	TARIFF
NP433691	7206.1	INSTALL 3x NEW 7.5m x 1.5m SINGLE WITH ARM IMPACT ABSORBING G11 BOTTLE GREEN (CAT No. 131129)	TYPE 4
NP433692		AT MINIMUM 800mm SETBACK FROM FACE TO KERB	
NP433693		INSTALL 3x NEW 2B RAG BOLTS (CAT No. 130938)	
-	7206.04	INSTALL 3x NEW 17W STREET LED (CAT No. 510165)	
-	7206.05		

UNDERGROUND CONSTRUCTION SCHEDULE			
REFERENCE NUMBER	ASSET LABEL	STANDARD DRAWING	CONSTRUCTION NOTE
1	NP433684	7202.05	INSTALL NEW TYPE 3 URD PILLAR
2	LVP14169 LVL29136 LVL56203	7202.02	INSTALL NEW URD LINK PILLAR LINKS OPEN
3	NP433685	7202.05	INSTALL NEW TYPE 3 URD PILLAR
4	NP433686	7202.05	INSTALL NEW TYPE 3 URD PILLAR
5	NP433687	7201.25	INSTALL NEW SERVICE CONNECTION PIT
6	NP433688	7201.25	INSTALL NEW SERVICE CONNECTION PIT
7	NP433689	7201.25	INSTALL NEW SERVICE CONNECTION PIT
A	LVF42897 LVF42898	7202.12	INSTALL SWITCH FUSE MODULE - TEM 25-400 AMP DIN SIZE 2 - CLAMP CONNECTION
A	LVF42897 LVF42898	7204.30	INSTALL 2 x NEW LOW VOLTAGE 240mm Al 4 CORE PADMOUNT SUBSTATION CLAMP TERMINATION

NOTES:
 1. DESIGNER SAFETY REPORT TO BE READ IN CONJUNCTION WITH DRAWING.
 2. ENVIRONMENTAL ASSESSMENT TO BE READ IN CONJUNCTION WITH DRAWING.
 3. DIAL BEFORE YOU DIG TO BE READ IN CONJUNCTION WITH DRAWING. DBYD IS VALID FOR 30 DAYS.
 4. LOCATIONS OF UNDERGROUND ASSETS TO BE CONFIRMED BY APPROVED CONTRACTOR.
 5. TRAFFIC CONTROL TO BE LAID OUT BY APPROVED CONTRACTOR.
 6. ALL HV AND LV CABLES TO BE INSTALLED WITHIN 8,000mm OFFSET FROM BUILDING LINE.
 7. ALL STREET LIGHTING TO BE INSTALLED MINIMUM 800mm FROM FACE TO BACK OF KERB.
 8. MINIMUM CLEARANCES TO BE MAINTAINED BETWEEN ELECTRICAL ASSETS AND OTHER UTILITIES.

REVISIONS:
 REV A - INITIAL SUBMISSION 03.09.2020

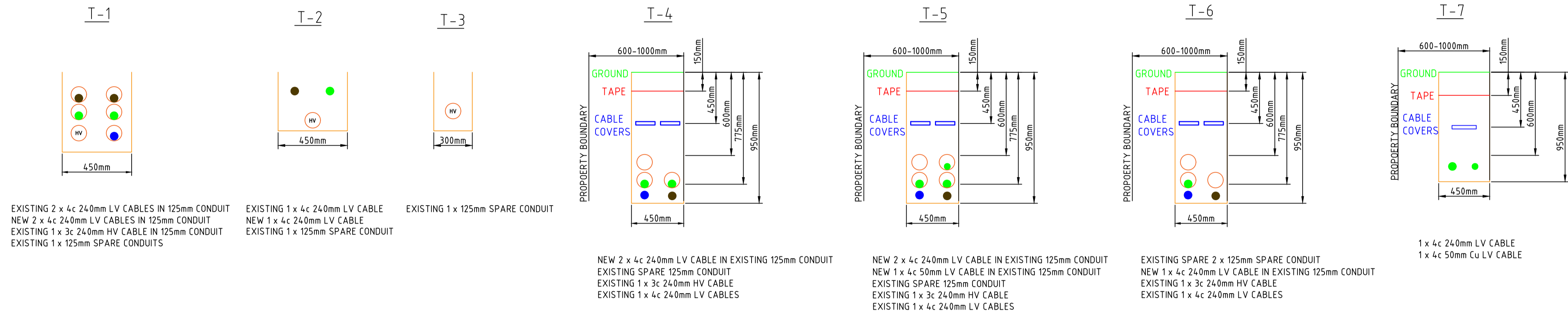
PRELIMINARY DRAWING

VILLAWOOD PROPERTIES
 17 LOT RESIDENTIAL SUBDIVISION
 LAKEVIEW ESTATE STAGE 11
 HERMITAGE DR, MOAMA NSW

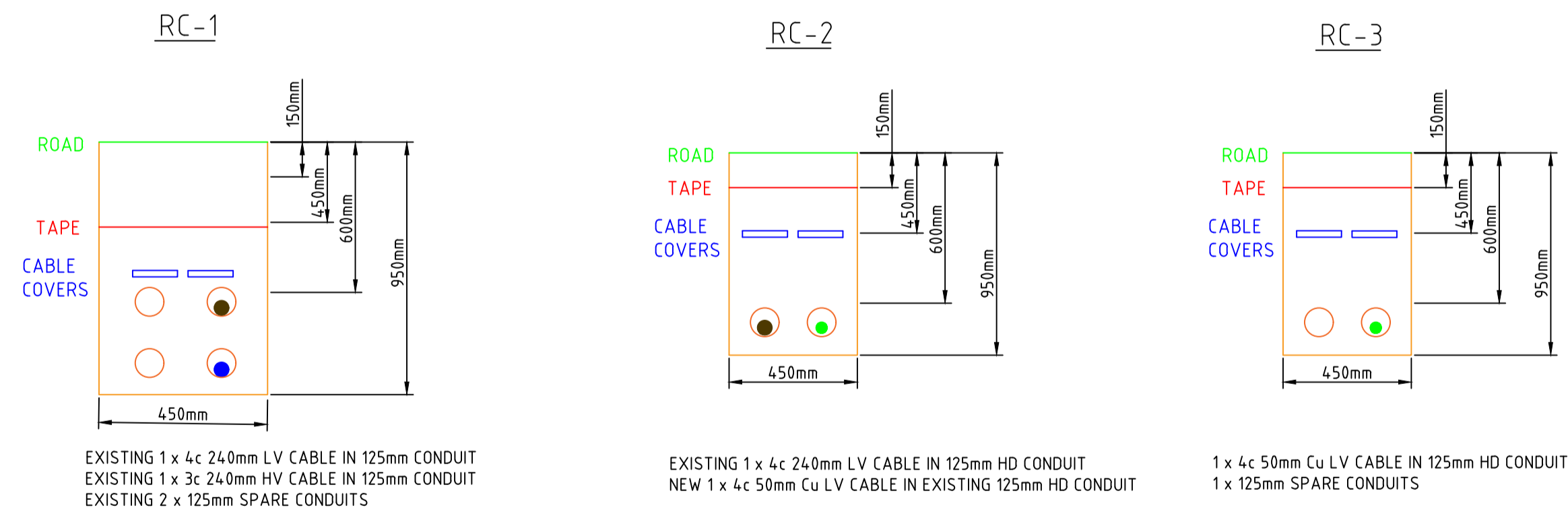
REVISION	SHEET SIZE	 BOSCHETTI INDUSTRIES ELECTRICAL ENGINEERING SOLUTIONS
A	A0	
DRAWING NAME/No:		121435
SHEET:		2 OF 4
ASP ACCREDITATION No: 4428	DATE PRINTED:	03.09.2020
LAST SAVED TIME: 10:00AM	LAST SAVED DATE:	03.09.2020
		SCALE AS SHOWN

TRENCH SECTIONS

MURRAY RIVER COUNCIL - CABLE TRENCH
 OFFSET FROM PROPERTY BOUNDARY:
 MINIMUM - 600mm, MAXIMUM - 1000mm



ROAD CROSSING TRENCH SECTIONS



PRELIMINARY DRAWING

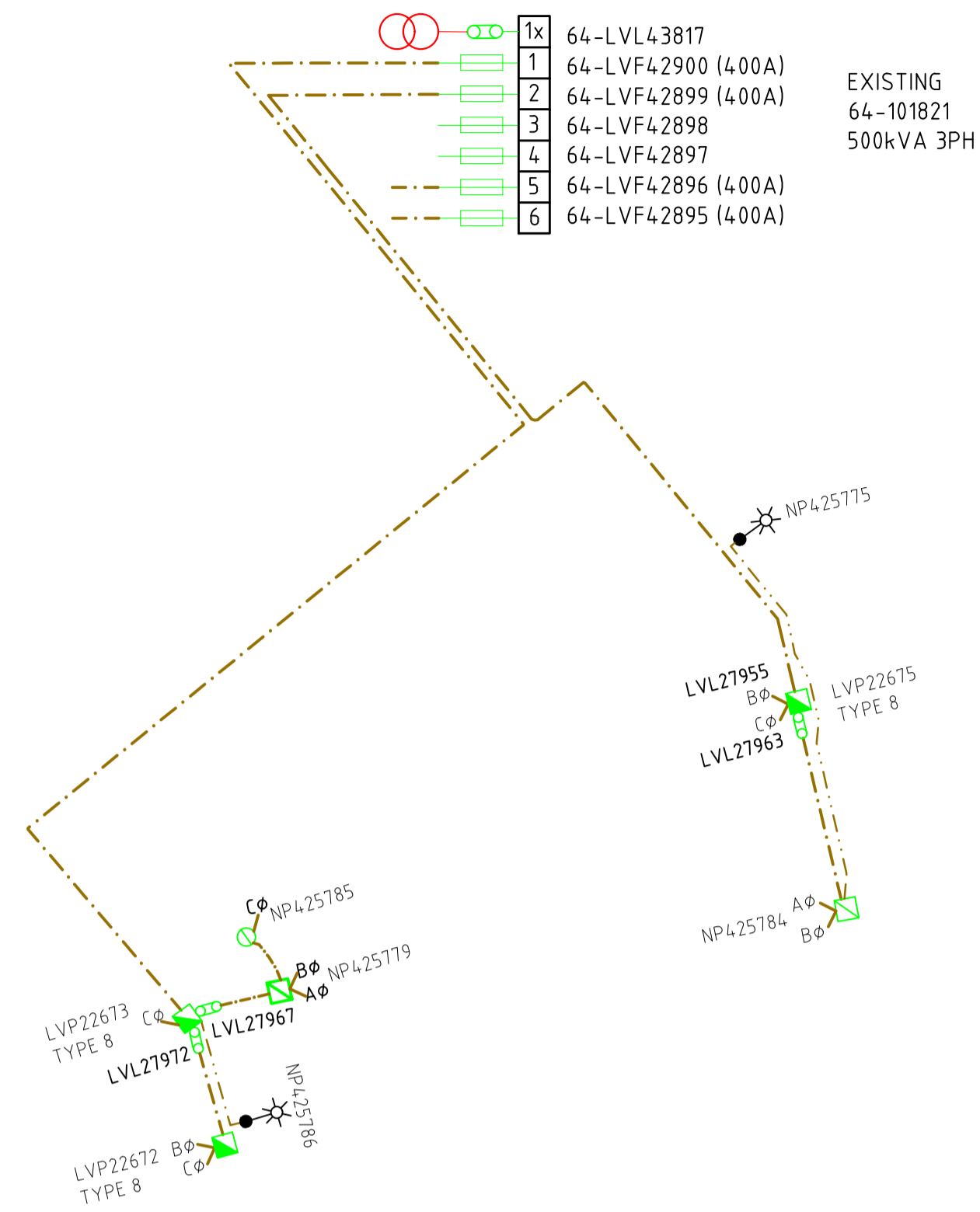
NOTES:
 1. DESIGNER SAFETY REPORT TO BE READ IN CONJUNCTION WITH DRAWING.
 2. ENVIRONMENTAL ASSESSMENT TO BE READ IN CONJUNCTION WITH DRAWING.
 3. DIAL BEFORE YOU DIG TO BE READ IN CONJUNCTION WITH DRAWING. DIBD IS VALID FOR 30 DAYS.
 4. LOCATIONS OF UNDERGROUND ASSETS TO BE CONFIRMED BY APPROVED CONTRACTOR.
 5. TRAFFIC CONTROL TO BE CARRIED OUT BY APPROVED CONTRACTOR.
 6. ALL HV AND LV CABLES TO BE INSTALLED WITHIN 9-1000mm OFFSET FROM BUILDING LINE
 7. ALL STREET LIGHTING TO BE INSTALLED MINIMUM 800mm FROM FACE TO BACK OF KERB.
 8. MINIMUM CLEARANCES TO BE MAINTAINED BETWEEN ELECTRICAL ASSETS AND OTHER UTILITIES.

REVISIONS:
 REV A: INITIAL SUBMISSION 03.09.2020

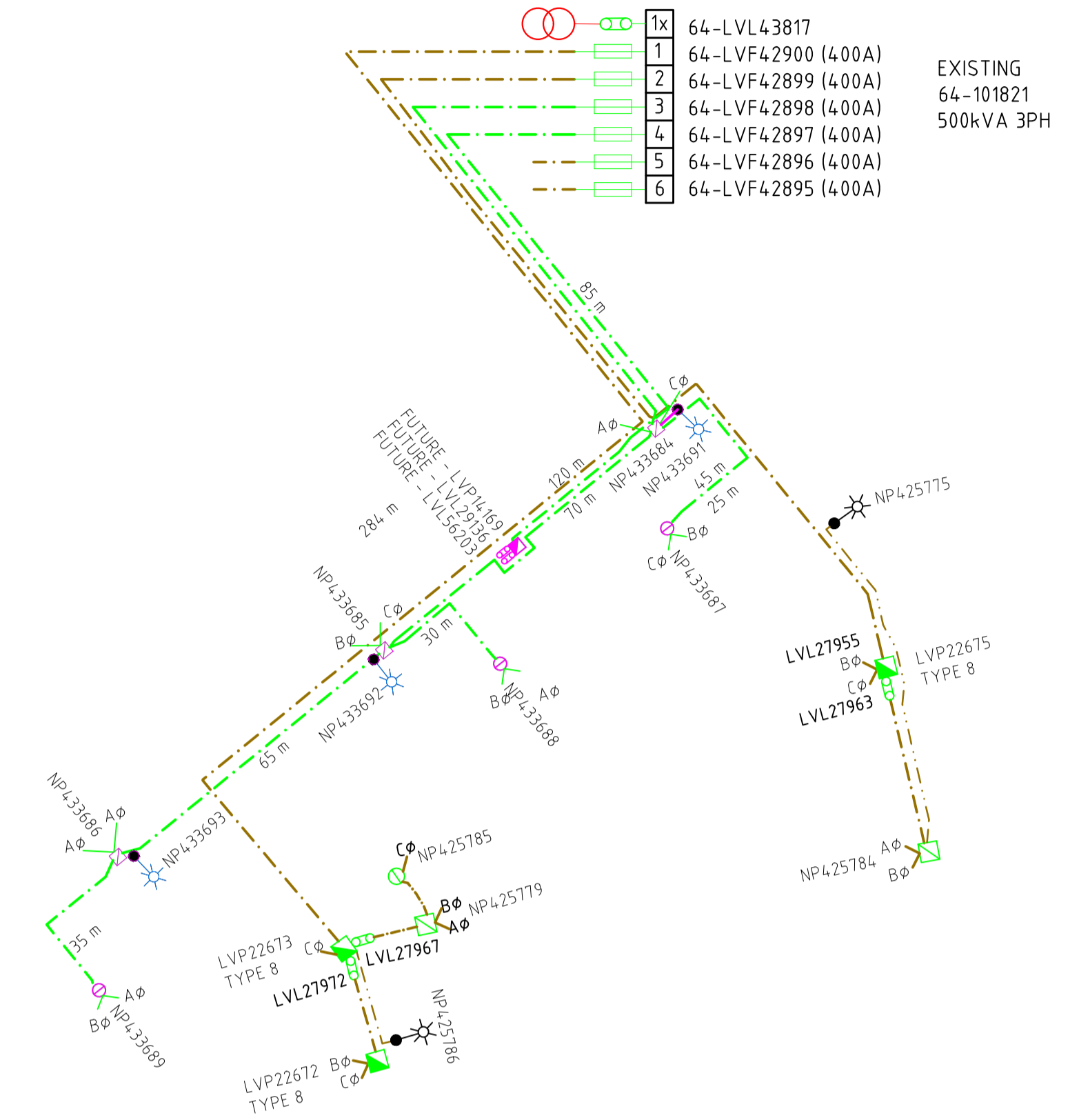
VILLAWOOD PROPERTIES
 17 LOT RESIDENTIAL SUBDIVISION
 LAKEVIEW ESTATE STAGE 11
 HERMITAGE DR, MOAMA NSW

REVISION	SHEET SIZE	
A	A0	
DRAWING NAME/No. 121435		
SHEET: 3 OF 4		
ASP ACCREDITATION No. 4628	DATE PRINTED: 03.09.2020	
LAST SAVED TIME: 10:00AM	SCALE: N/A	
LAST SAVED DATE: 03.09.2020		

LV SCHEMATIC BEFORE

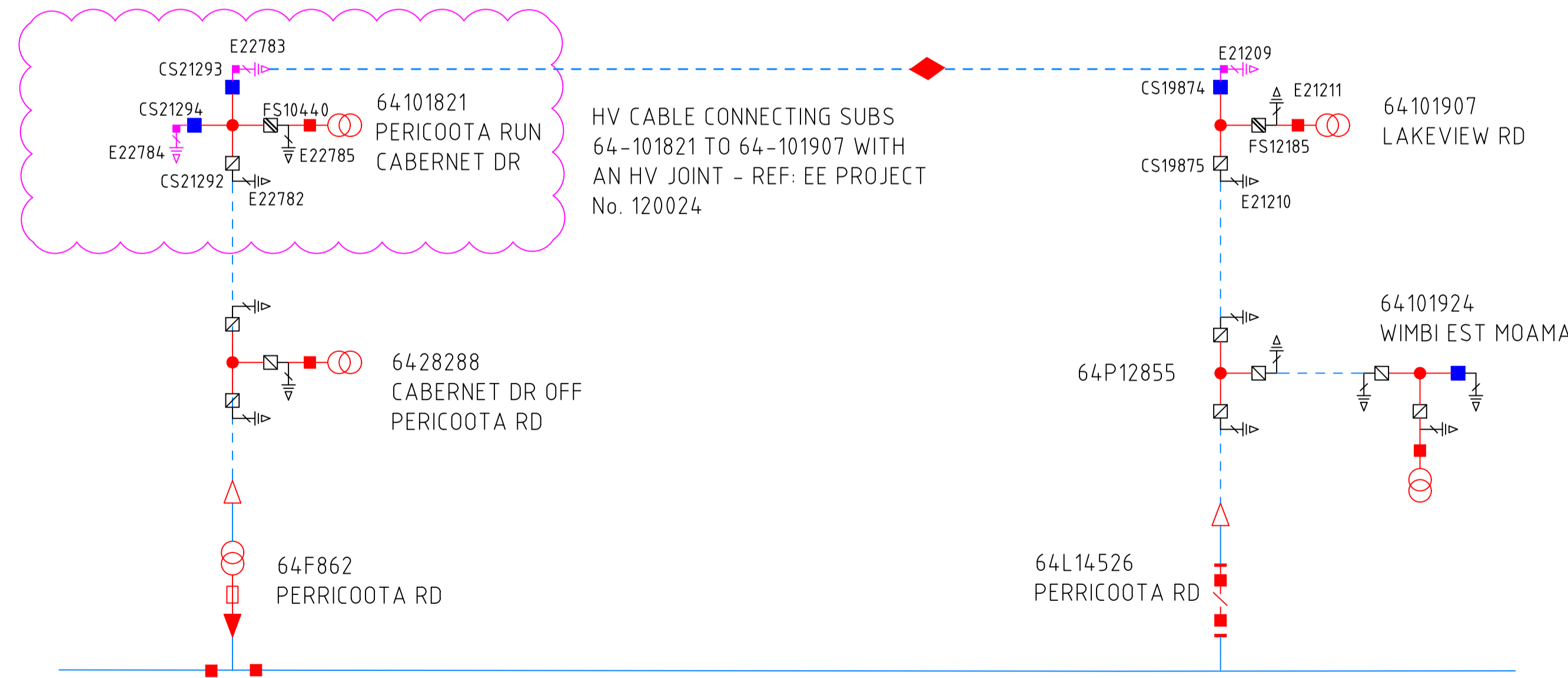


LV SCHEMATIC AFTER



HV SCHEMATIC

ZONE SUBSTATION - MOAMA
 HV FEEDER No - MOA8B2 MOAMA WEST
 MAINTENANCE AREA - DENI - 6428A_2 - MOAMA URBAN TOWN



NOTES:
 1. DESIGNER SAFETY REPORT TO BE READ IN CONJUNCTION WITH DRAWING.
 2. ENVIRONMENTAL ASSESSMENT TO BE READ IN CONJUNCTION WITH DRAWING.
 3. DIAL BEFORE YOU DIG TO BE READ IN CONJUNCTION WITH DRAWING. DTD IS VALID FOR 30 DAYS.
 4. LOCATIONS OF UNDERGROUND ASSETS TO BE CONFIRMED BY APPROVED CONTRACTOR.
 5. TRAFFIC CONTROL TO BE CARRIED OUT BY APPROVED CONTRACTOR.
 6. ALL HV AND LV CABLES TO BE INSTALLED WITHIN 9-1000mm OFFSET FROM BUILDING LINE.
 7. ALL STREET LIGHTING TO BE INSTALLED MINIMUM 800mm FROM FACE TO BACK OF KERB.
 8. MINIMUM CLEARANCES TO BE MAINTAINED BETWEEN ELECTRICAL ASSETS AND OTHER UTILITIES.

REVISIONS:
 REV A: INITIAL SUBMISSION 03.09.2020

PRELIMINARY DRAWING

VILLAWOOD PROPERTIES
 17 LOT RESIDENTIAL SUBDIVISION
 LAKEVIEW ESTATE STAGE 11
 HERMITAGE DR, MOAMA NSW

REVISION	SHEET SIZE	 ELECTRICAL ENGINEERING SOLUTIONS
A	A0	
DRAWING NAME/No. 121435		
SHEET: 4 OF 4		
ASP ACCREDITATION No. 4628	DATE PRINTED: 03.09.2020	
LAST SAVED TIME: 10:00AM	SCALE: N/A	
LAST SAVED DATE: 03.09.2020		