

APPLICATION ON NOTIFICATION – ELECTRICITY INFRASTRUCTURE

Type of development:	SECTION 49A - Electricity Infrastructure
Development Number:	422/V004/19
Applicant:	ElectraNet Pty Ltd
Nature of Development:	Expansion of the existing Robertstown substation comprising: (a) extension of the existing substation footprint; (b) installation of two synchronous condensers contained within separate buildings and associated electrical infrastructure (including transformers, firewalls and gantries), second access road, perimeter fencing, drainage (and levy bank) and civil works; and (c) modifications to an existing high-voltage transmission line (with the installation of three new lattice towers and realignment works).
Subject Land:	Lower Bright Road, Bright
Development Plan:	Goyder Council Development Plan
Zone / Policy Area:	Primary Production Zone
Contact Officer:	Simon Neldner
Phone Number:	08 7109 7058
Consultation Start Date:	26 June 2019
Consultation Close Date:	26 July 2019
<p>During the notification period, hard copies of the application documentation can be viewed at the Department of Planning, Transport and Infrastructure, Level 5, 50 Flinders St, Adelaide, during normal business hours. Application documentation may also be viewed during normal business hours at the local Council office (if identified on the public notice).</p>	

Written representations must be received by the close date (indicated above) and can either be posted, hand-delivered, or emailed to the State Commission Assessment Panel (SCAP). A representation form is provided as part of this document.

Any representations received after the close date will not be considered.

Postal Address:

The Secretary
State Commission Assessment Panel
GPO Box 1815
ADELAIDE SA 5001

Street Address:

Planning and Land Use Services
Department of Planning, Transport and Infrastructure
Level 5, 50 Flinders Street
ADELAIDE

Email Address: scapreps@sa.gov.au

DEVELOPMENT ACT, 1993
S49A – ELECTRICITY INFRASTRUCTURE
REPRESENTATION ON APPLICATION

Applicant: ElectraNet Pty Ltd
Development Number: 422/V004/19
Nature of Development: Expansion of the existing Robertstown substation
Zone / Policy Area: Primary Production Zone (Goyder Council Development Plan)
Subject Land: Lower Bright Road, Bright
Contact Officer: Simon Neldner
Phone Number: 08 7109 7058
Close Date: 26 July 2019

My Name: _____ My phone number: _____

Primary method(s) of contact: _____ Email: _____
Postal Address: _____ Postcode: _____

You may be contacted via your nominated PRIMARY METHOD(s) OF CONTACT if you indicate below that you wish to be heard by the State Commission Assessment Panel in support of your submission.

My interests are:
(please tick one)

- owner of local property
- occupier of local property
- a representative of a company/other organisation affected by the proposal
- a private citizen

The address of the property affected is: _____
Postcode: _____

My interests are:
(please tick one)

- I support the development
- I support the development with some concerns
- I oppose the development

The specific aspects of the application to which I make comment on are: _____

I: wish to be heard in support of my submission
(please tick one) do not wish to be heard in support of my submission
(Please tick one)

By: appearing personally
(please tick one) being represented by the following person
(Please tick one)

Signature: _____
Date: _____



DEVELOPMENT ACT 1993

SECTION 49A - ELECTRICITY INFRASTRUCTURE

NOTICE OF APPLICATION FOR CONSENT TO DEVELOPMENT

Notice is hereby given that an application has been made by **ElectraNet Pty Ltd** for consent to the expansion of the existing Robertstown substation comprising: (a) extension of the existing substation footprint; (b) installation of two synchronous condensers contained within separate buildings and associated electrical infrastructure (including transformers, firewalls and gantries), second access road, perimeter fencing, drainage (and levy bank) and civil works; and (c) modifications to an existing high-voltage transmission line (with the installation of three new lattice towers and realignment works). **Development Application: 422/V004/19**

The subject land is located on Lower Bright Road, Bright and comprises a south-westerly extension to the existing Robertstown substation (a50, DP51338: CT 5689/927; and a51, DP51338: CT 5689/928) and the modification to an existing transmission line on adjacent land (s42, HP 200300: CT 5464/828) and across the expanded substation site (identified above).

The development site is located within the Primary Production Zone of the Goyder Council Development Plan (Consolidated 24 November 2016).

The application may be examined during normal office hours at the office of the State Commission Assessment Panel, Level 5, 50 Flinders Street, Adelaide and at the principal office of the Regional Council of Goyder, 1 Market Square, Burra. Application documentation may also be viewed on the SCAP website:
https://www.saplanningcommission.sa.gov.au/scap/public_notices

Any person or body who desires to do so may make representations concerning the application by notice in writing delivered to the Secretary, State Commission Assessment Panel, GPO Box 1815, Adelaide 5001

NOT LATER THAN FRIDAY 26 JULY 2019.

Submissions may also be made via email to scapadmin@sa.gov.au

Each person or body making a representation should state the reason for the representation and whether that person or body wishes to be given the opportunity to appear before the SCAP to further explain the representation.

Submissions may be made available for public inspection.

Should you wish to discuss the application and the public notification procedure please contact **Simon Neldner** on **08 7109 7058**.

Alison Gill
SECRETARY
STATE COMMISSION ASSESSMENT PANEL
scapadmin@sa.gov.au

PN3827

www.sa.gov.au

SECTION 49 & 49A – CROWN DEVELOPMENT DEVELOPMENT APPLICATION FORM

PLEASE USE BLOCK LETTERS

COUNCIL: Goyder
 APPLICANT: ElectraNet Pty Ltd
 ADDRESS: 52-55 East Tce, Adelaide 5000
 CROWN AGENCY: ElectraNet Pty Ltd

FOR OFFICE USE

DEVELOPMENT No: _____
 PREVIOUS DEVELOPMENT No: _____
 DATE RECEIVED: / /

CONTACT PERSON FOR FURTHER INFORMATION

Name: Scott Haynes
 Telephone: 0408883559 [work] _____ [Ah]
 Fax: _____ [work] _____ [Ah]
 Email: haynes.scott@electranet.com.au

<input type="checkbox"/> Complying <input type="checkbox"/> Merit <input type="checkbox"/> Public Notification <input type="checkbox"/> Referrals	Decision: _____ Type: _____ Finalised: / /
--	--

NOTE TO APPLICANTS:

(1) All sections of this form must be completed. The site of the development must be accurately identified and the nature of the proposal adequately described. If the expected development cost of this Section 49 or Section 49A application exceeds \$100,000 (excl. fit-out) or the development involves the division of land (with the creation of additional allotments) it will be subject to those fees as outlined in Item 1 of Schedule 6 of the *Development Regulations 2008*. Proposals over \$4 million (excl. fit-out) will be subject to public notification and advertising fees.

(2) Three copies of the application should also be provided.

	Decision required	Fees	Receipt No	Date
Planning:	_____	_____	_____	_____
Land Division:	_____	_____	_____	_____
Additional:	_____	_____	_____	_____
Minister's Approval	_____	_____	_____	_____

EXISTING USE: Substation / Grazing land

DESCRIPTION OF PROPOSED DEVELOPMENT: Substation expansion for installation of two synchronous condensers, four additional diameters and associated transmission line alterations requiring installation of three new structures

LOCATION OF PROPOSED DEVELOPMENT: Robertstown Substation

House No: _____	Lot No: _____	Street: <u>Lower Bright Road</u>	Town/Suburb: <u>Robertstown</u>
Section No [full/part] <u>Lot 50</u>	Hundred: <u>Bright</u>	Volume: <u>5689</u>	Folio: <u>927</u>
Section No [full/part] <u>Lot 51</u>	Hundred: <u>Bright</u>	Volume: <u>5689</u>	Folio: <u>928</u>
LAND DIVISION: <u>Lot 42</u>	Hundred: <u>Bright</u>	Volume: <u>5464</u>	Folio: <u>828</u>

Site Area [m²] _____ Reserve Area [m²] _____ No of existing allotments _____
 Number of additional allotments [excluding road and reserve]: _____ Lease: YES NO

DEVELOPMENT COST [do not include any fit-out costs]: \$ 30,500,000

POWERLINE SETBACKS: Pursuant to Schedule 5 (2a)(1) of the *Development Regulations 2008*, if this application is for a building it will be forwarded to the Office of the Technical Regulator for comment unless the applicant provides a declaration to confirm that the building meets the required setback distances from existing powerlines. The declaration form and further information on electricity infrastructure and clearance distances can be downloaded from the DPLG website (www.dac.sa.gov.au).

I acknowledge that copies of this application and supporting documentation may be provided to interested persons in accordance with the *Development Act 1993*.

SIGNATURE: _____ Dated: 06 / 06 / 2019



Robertstown Substation Expansion

Development Application for Substation
Expansion, Synchronous Condensers and
Transmission line realignment

June 2019

Version 0



ElectraNet Corporate Headquarters

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Tel: (08) 8404 7966 • Fax: (08) 8404 7956 • Toll Free: 1800 243 853

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Reasonable endeavours have been used to ensure that the information contained in this report is accurate at the time of writing. However, ElectraNet gives no warranty and accepts no liability for any loss or damage incurred in reliance on this information.

Revision Record					
Date	Version	Description	Author	Checked By	Approved By
6/6/19	0	DA Report	S Haynes	C.Costan	D. Costan

Contents

1.	INTRODUCTION	5
2.	BACKGROUND	5
2.1	PROJECT NEED	5
3.	SUBJECT SITE	7
3.1	LOCATION	7
3.2	PROPERTY	7
4.	NATURE OF DEVELOPMENT	8
4.1	SUBSTATION EXPANSION	8
4.2	SYNCHRONOUS CONDENSERS	10
4.2.1	<i>Typical configuration</i>	11
4.3	TRANSMISSION LINES	12
5.	DEVELOPMENT ASSESSMENT	13
6.	RECOMMENDATION	13
	APPENDICES	14
	APPENDIX A CERTIFICATE OF TITLE	15
	APPENDIX B SUBSTATION DRAWINGS	26
	APPENDIX C TRANSMISSION LINE DRAWINGS	30

Figures

Figure 2-1:	Role of ElectraNet in the electricity supply chain	5
Figure 3-1	Site location	7
Figure 4-1	Proposed substation layout.....	8
Figure 4-2	Robertstown Substation (current – view looking south west).....	9
Figure 4-3	Robertstown Substation (current - view looking north)	9
Figure 4-4	Robertstown Substation (current - view looking south east)	10
Figure 4-5	Synchronous Condenser Main Components (source: gegridsolutions.com).....	11

Figure 4-6 Example Synchronous Condensers11
Figure 4-7 New transmission line configuration12

1. Introduction

To facilitate the construction and installation of Synchronous Condensers to the electricity grid together with allowing for additional line exits, there is a need to expand the Robertstown Substation.

2. Background

ElectraNet Pty Ltd (ElectraNet) is the principal electricity Transmission Network Service Provider (TNSP) in South Australia, operating as part of the National Electricity Market under National Electricity Rules. The company's revenue is set by the Australian Energy Regulator (AER).

ElectraNet's role is to own and manage the high-voltage transmission lines and substations that connect this State's electricity generation system to multiple customer connection points, including SA Power Network's lower-voltage distribution network. The role of ElectraNet in the electricity supply chain is shown in Figure 2-1:

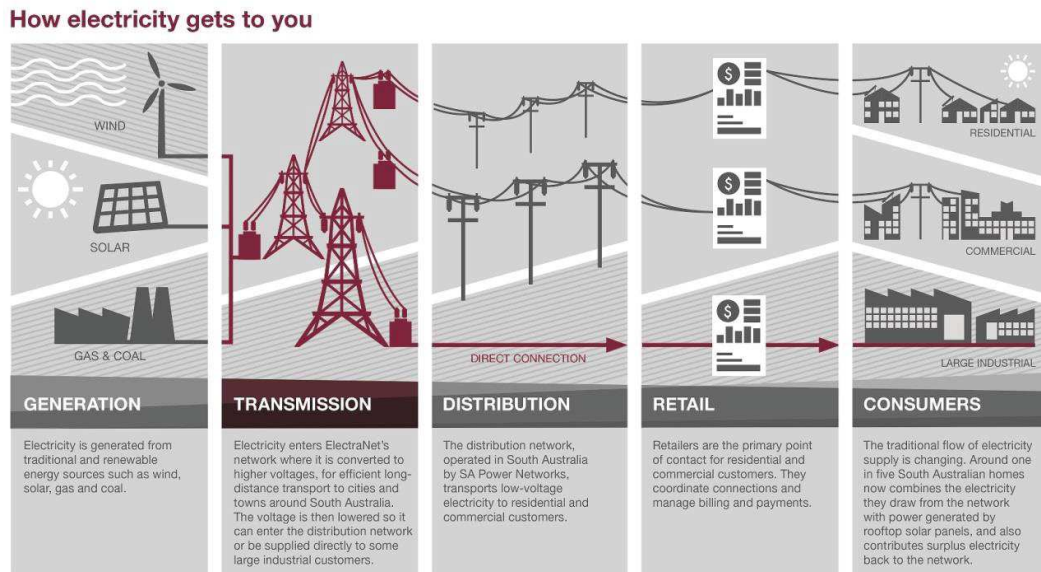


Figure 2-1: Role of ElectraNet in the electricity supply chain

ElectraNet's transmission network is one of the most extensive regional transmission systems in Australia, extending across some 200,000 square kilometres of the State. This network consists of transmission lines operating at 132,000 and 275,000 Volts, which are supported by both lattice towers and large stobie poles.

2.1 Project Need

South Australia has become a world leader in renewable energy generation. This means that traditional synchronous generation sources, such as gas-fired units, now operate less often.

A secure power system needs adequate levels of system strength and inertia, which to date have been provided by traditional synchronous generators.

To maintain and manage the security of the power system this traditional source of system strength now needs to be provided by other means. In October 2017, the Australian Energy Market Operator (AEMO) declared a gap in system strength in South Australia, which requires ElectraNet to use its reasonable endeavours to address this gap on an ongoing basis.

AEMO's notice identified a system strength gap at the Davenport 275 kV transmission connection point of 620 MVA each year for the remainder of the current five-year NSCAS planning horizon and beyond.

System strength relates to the ability of a power system to manage minor fluctuations in supply or demand while maintaining stable voltage levels, ensuring stable and secure supply for customers. A lack of system strength on the power system brings with it an increased risk of system instability and supply interruptions.

ElectraNet has been investigating options to address this gap to ensure we can provide customers with a reliable and secure power system, while also keeping costs down. Options include entering into contracts with generators or installing synchronous condensers.

Following an analysis of these options through a generator tendering process and advice from independent energy market experts, the installation of synchronous condensers on the network has been determined to be the most efficient and least cost option.

Synchronous Condensers can provide some very strong system benefits that offer great value to the operation of the grid:

- Increase in Short-Circuit Strength: Synchronous Condensers are the only technology that significantly increases fault current.
- Increase in System Inertia: Synchronous Condensers are the only technology that increases system inertia which benefits frequency stabilization.

The implementation of a synchronous condenser solution has the support of AEMO, the AER and the South Australian Government. It is expected to be fully operational by the end of 2020.

Network analysis by ElectraNet has determined that synchronous condensers should be connected at Davenport (near Port Augusta), Robertstown (in mid north of South Australia) and potentially a metropolitan site in Adelaide.

In addition, with upcoming approved and proposed renewable generation and network projects in the vicinity of Robertstown substation, there is a need to extend the substation to provide ability for additional connection points.

This application is for the Robertstown site. A separate application for synchronous condensers at Davenport (DA 660/V002/19) has recently been approved.

3. Subject Site

3.1 Location

Robertstown Substation is located approximately 6km north-east of the township of Robertstown in the Mid North of South Australia as shown in Figure 3-1.



Figure 3-1 Site location

3.2 Property

The subject property is defined as Allotment 50, Certificate of Title 5689/927 and Allotment 51, Certificate of Title 5689/928 (refer Appendix A). ElectraNet has recently purchased additional land from Allotment 51 and a boundary realignment to enlarge Allotment 50 is in process.

4. Nature of Development

4.1 Substation Expansion

As identified in Section 2.1, synchronous condensers are required to be installed at Robertstown substation.

To facilitate the connection of the two synchronous condensers together with allowance for additional line exits, an expansion on the southern and south-western side of the substation will be required as illustrated in Figure 4-1, 4-2, 4-3 & 4-4. The substation expansion area measures approximately 150.5m x 258m as illustrated in detailed drawings contained in Appendix B. New chainmesh or weldmesh substation security fencing up to approximately 3.0m high will be installed around the expansion area.

The site will be accessed via existing gates on Lower Bright Road.

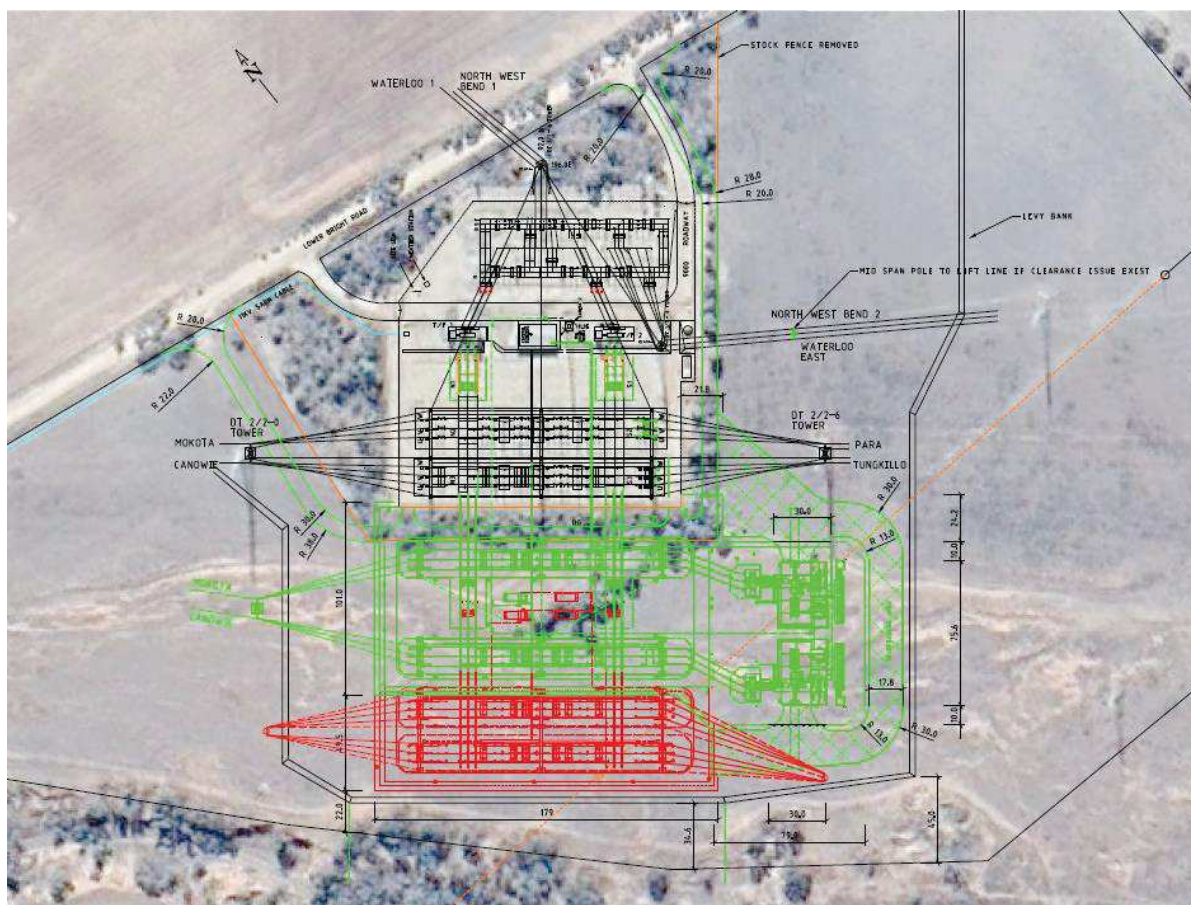


Figure 4-1 Proposed substation layout

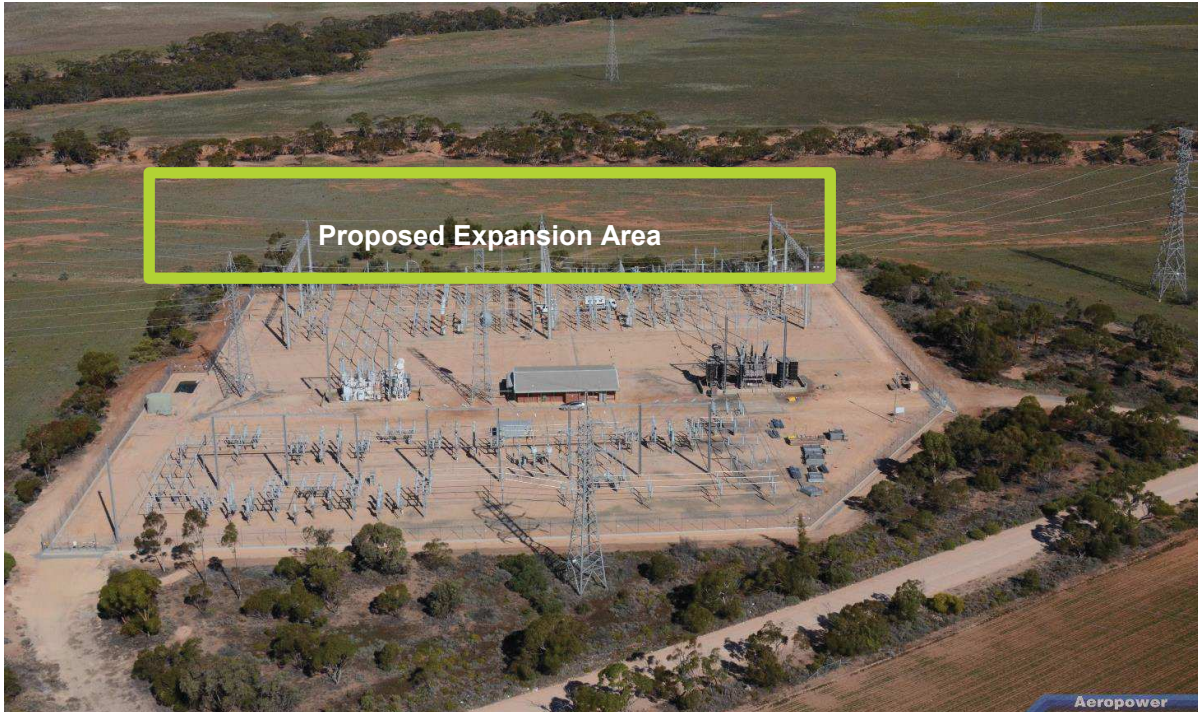


Figure 4-2 Robertstown Substation (current – view looking south west)



Figure 4-3 Robertstown Substation (current - view looking north)



Figure 4-4 Robertstown Substation (current - view looking south east)

4.2 Synchronous Condensers

The two synchronous condensers will be contained within separate buildings measuring approximately 32m x 23.5m x 11.5m high for weather protection. The buildings will be constructed using insulated colorbond sheet metal material in a neutral, low reflective colour.

“In electrical engineering, a synchronous condenser (sometimes called a synchronous capacitor or synchronous compensator) is a DC-excited synchronous motor, whose shaft is not connected to anything but spins freely. Its purpose is not to convert electric power to mechanical power or vice versa, but to adjust conditions on the electric power transmission grid. Its field is controlled by a voltage regulator to either generate or absorb reactive power as needed to adjust the grid's voltage, or to improve power factor. The condenser's installation and operation are identical to large electric motors and generators” (Wikipedia).

Each synchronous condenser (refer Figures 4-5 and 4-6) will have an associated new transformer, firewalls, gantries and associated electrical equipment to connect to the substation. Main Components

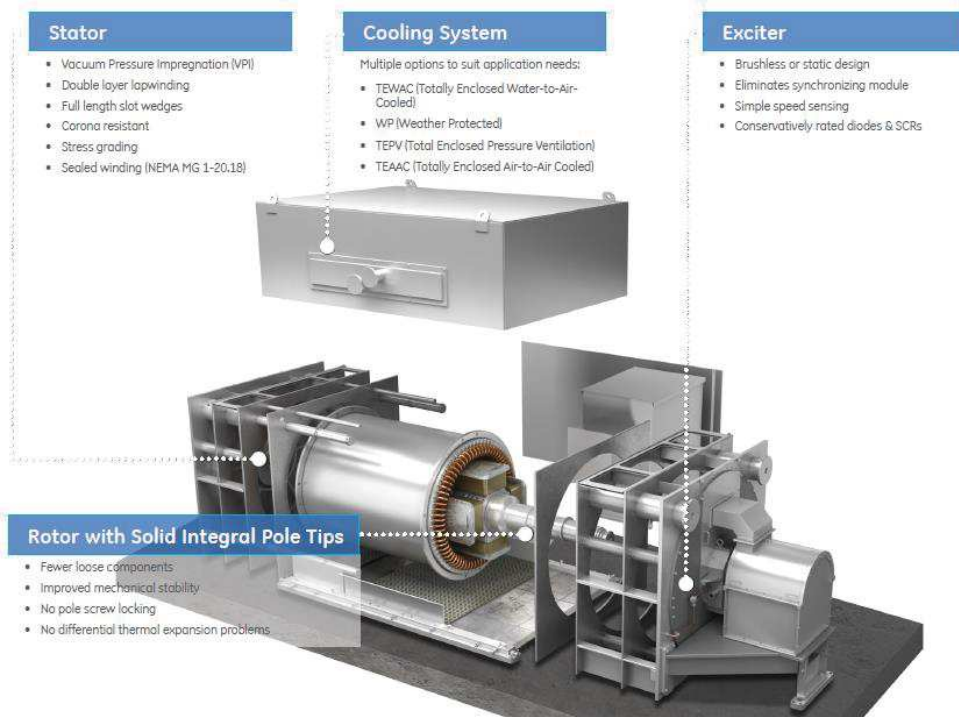


Figure 4-5 Synchronous Condenser Main Components (source: gegridsolutions.com)

4.2.1 Typical configuration



Figure 4-6 Example Synchronous Condensers

4.3 Transmission lines

Some minor transmission line realignment external of the substation will be required to reconfigure certain diameters for line exits. This realignment will require construction of three (3) lattice towers or steel monopoles at locations as illustrated in Figure 4-7 and drawings in Appendix C.

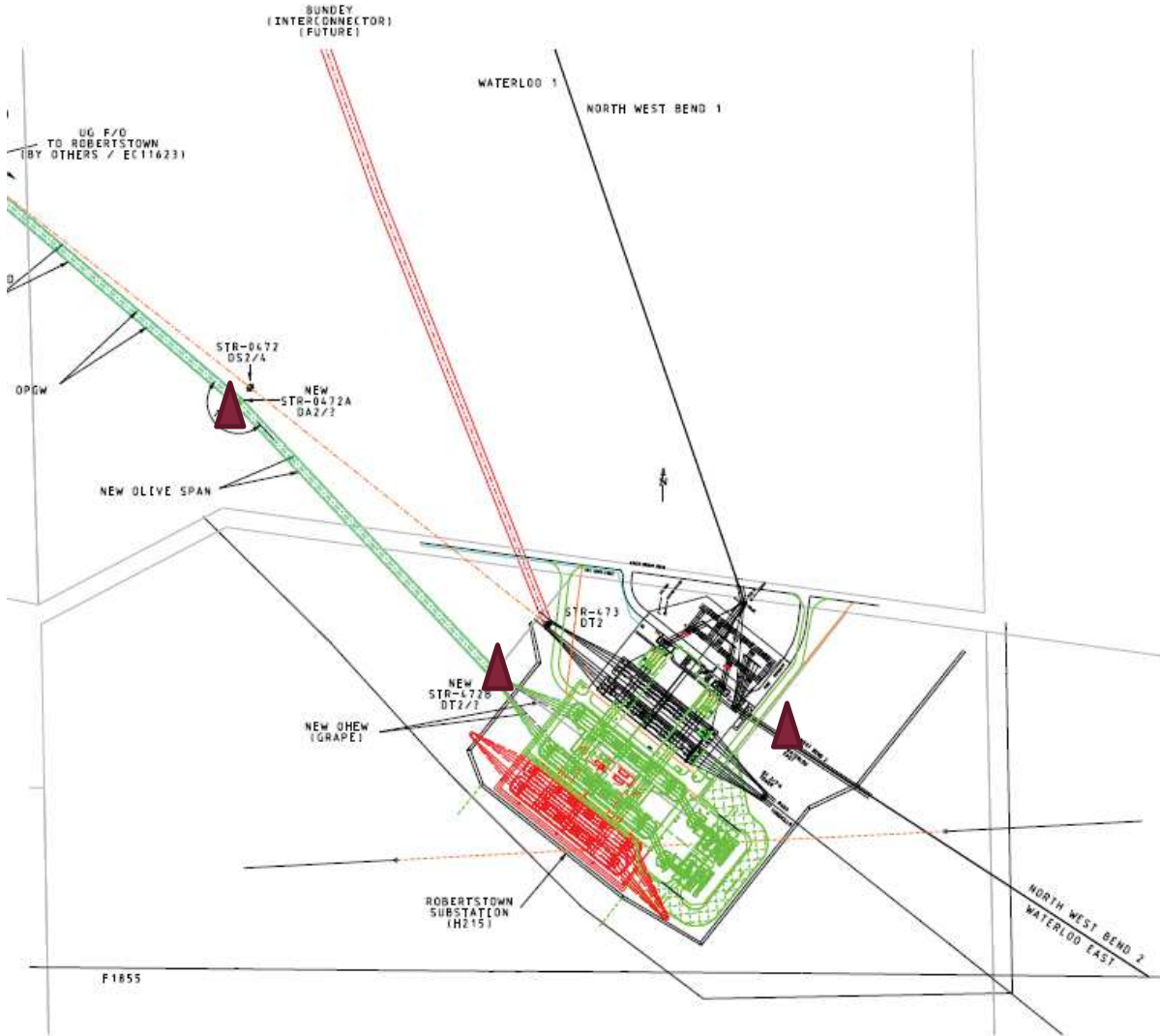


Figure 4-7 New transmission line configuration

5. Development Assessment

The Goyder Council Development Plan (Consolidated 24 November 2016) is the relevant plan for this proposal.

The subject site is located within the Primary Production Zone (Refer Maps Go/1). The proposed development will not affect any neighbouring property with the nearest dwelling some 900-1000m away to the north.

The proposed expansion of the substation is not at variance with the zone provisions and represents orderly development.

6. Recommendation

That the proposed development is granted Crown Development Approval pursuant to Section 49A being Electricity Infrastructure Development.

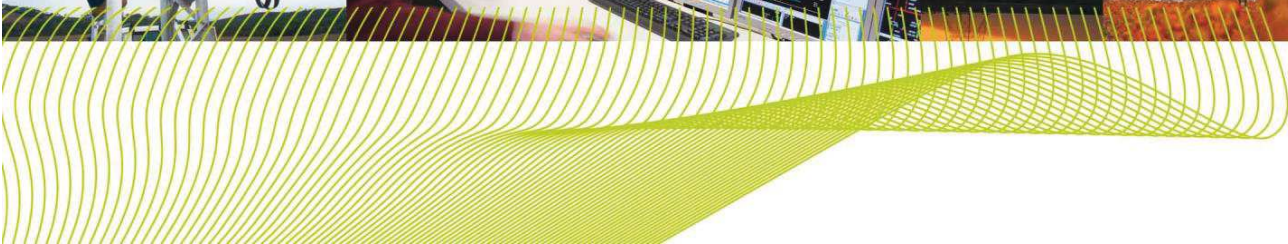


Robertstown Substation Expansion

Appendices

June 2019

Security Classification: Public



Appendix A Certificate of Title



The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



Certificate of Title - Volume 5464 Folio 828

Parent Title(s)	CT 4273/649				
Creating Dealing(s)	CONVERTED TITLE				
Title Issued	30/10/1997	Edition	4	Edition Issued	13/12/2018

Estate Type

FEE SIMPLE

Registered Proprietor

STRODETO PTY. LTD. (ACN: 625 014 646)
OF CARE 571 STOCK ROUTE ROAD ROBERTSTOWN SA 5381

Description of Land

SECTION 42
HUNDRED OF BRIGHT
IN THE AREA NAMED BRIGHT

Easements

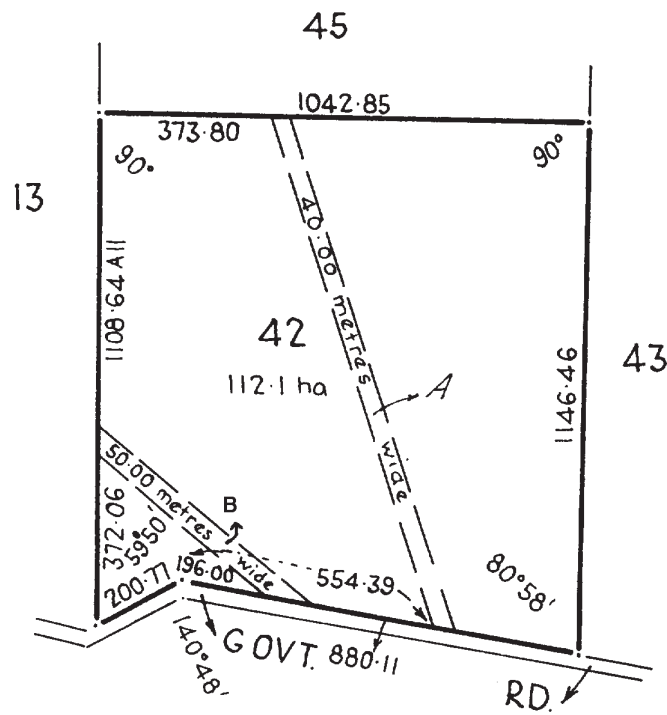
SUBJECT TO EASEMENT(S) OVER THE LAND MARKED A TO THE ETSA CORPORATION (T 5079119)

Schedule of Dealings

NIL

Notations

Dealings Affecting Title	NIL
Priority Notices	NIL
Notations on Plan	NIL
Registrar-General's Notes	NIL
Administrative Interests	NIL



REAL PROPERTY ACT, 1886



South Australia

The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



Certificate of Title - Volume 5689 Folio 927

Parent Title(s)	CT 4213/306, CT 5295/766, CT 5471/432		
Creating Dealing(s)	RTC 8696570		
Title Issued	07/09/1999	Edition 3	Edition Issued 12/10/2001

Estate Type

FEE SIMPLE

Registered Proprietor

TRANSMISSION LESSOR CORPORATION
OF 200 VICTORIA SQUARE ADELAIDE SA 5000

Description of Land

ALLOTMENT 50 DEPOSITED PLAN 51338
IN THE AREA NAMED BRIGHT
HUNDRED OF BRIGHT

Easements

NIL

Schedule of Dealings

Dealing Number	Description
9061500	LEASE TO ELECTRANET PTY. LTD. COMMENCING ON 31/10/2000 AND EXPIRING ON 30/10/2200 PURSUANT TO ELECTRICITY CORPORATIONS (RESTRUCTURING AND DISPOSAL) ACT 1999

Notations

Dealings Affecting Title	NIL
--------------------------	-----

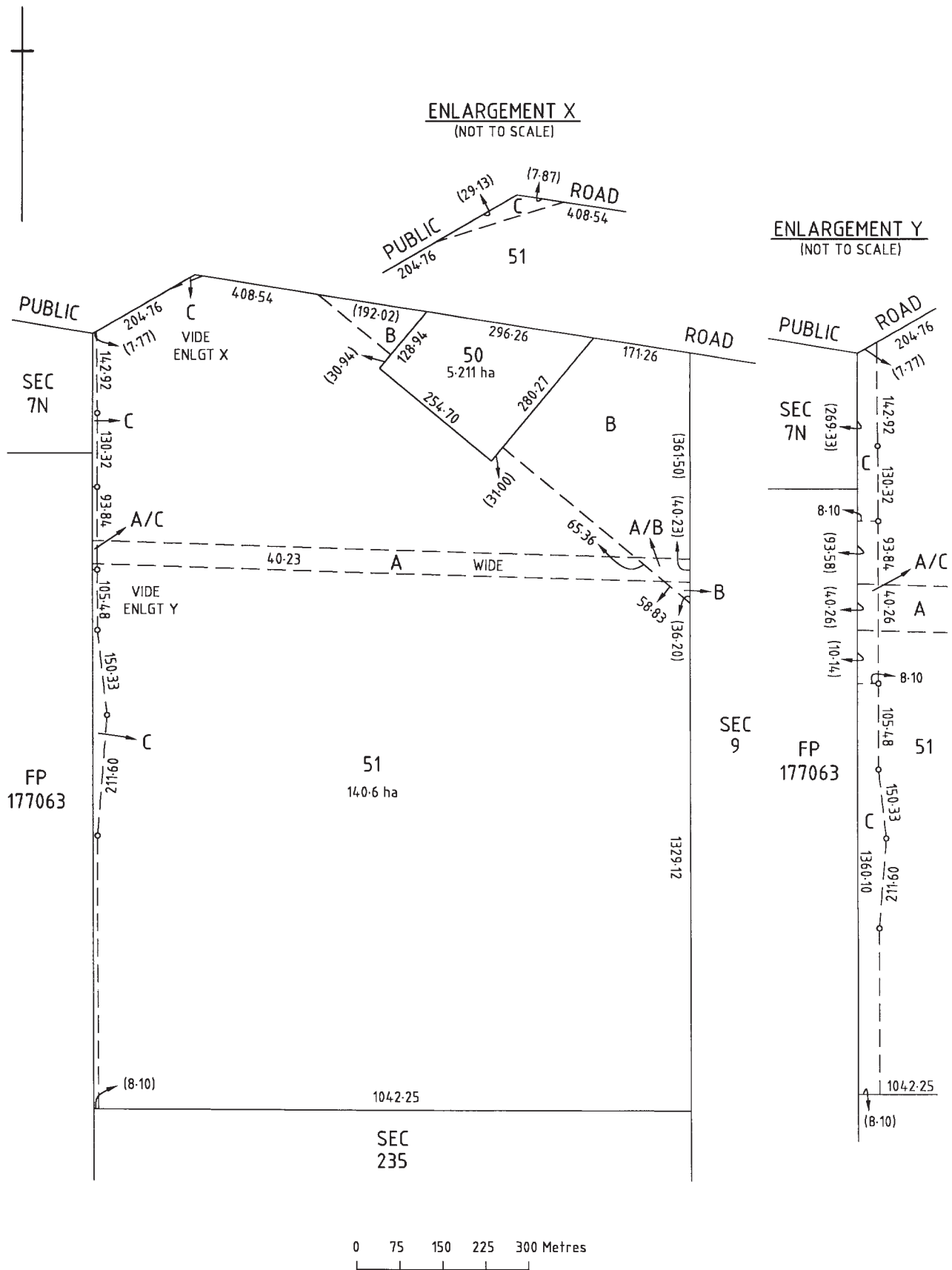
Priority Notices	NIL
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Notations on Plan	NIL
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Registrar-General's Notes

APPROVED D120572

Administrative Interests	NIL
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REAL PROPERTY ACT, 1886



The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



Certificate of Title - Volume 5689 Folio 928

Parent Title(s) CT 5295/766
Creating Dealing(s) RTC 8696570
Title Issued 07/09/1999 **Edition** 2 **Edition Issued** 15/11/2001

Estate Type

FEE SIMPLE

Registered Proprietor

JOHN ROBERT LIPSCHINSKI
OF ROBERTSTOWN SA 5381

Description of Land

ALLOTMENT 51 DEPOSITED PLAN 51338
IN THE AREA NAMED BRIGHT
HUNDRED OF BRIGHT

Easements

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED A.B AND C TO THE ETSA CORPORATION (T 3030798 T 5085252 AND T 5276850 RESPECTIVELY)

Schedule of Dealings

Dealing Number	Description
9211582	MORTGAGE TO WESTPAC BANKING CORPORATION
12650019	CAVEAT BY ENERGYAUSTRALIA HALLETT PTY. LTD. (ACN: 120 665 643) OVER PORTION (D IN F251560)

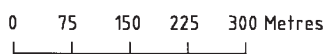
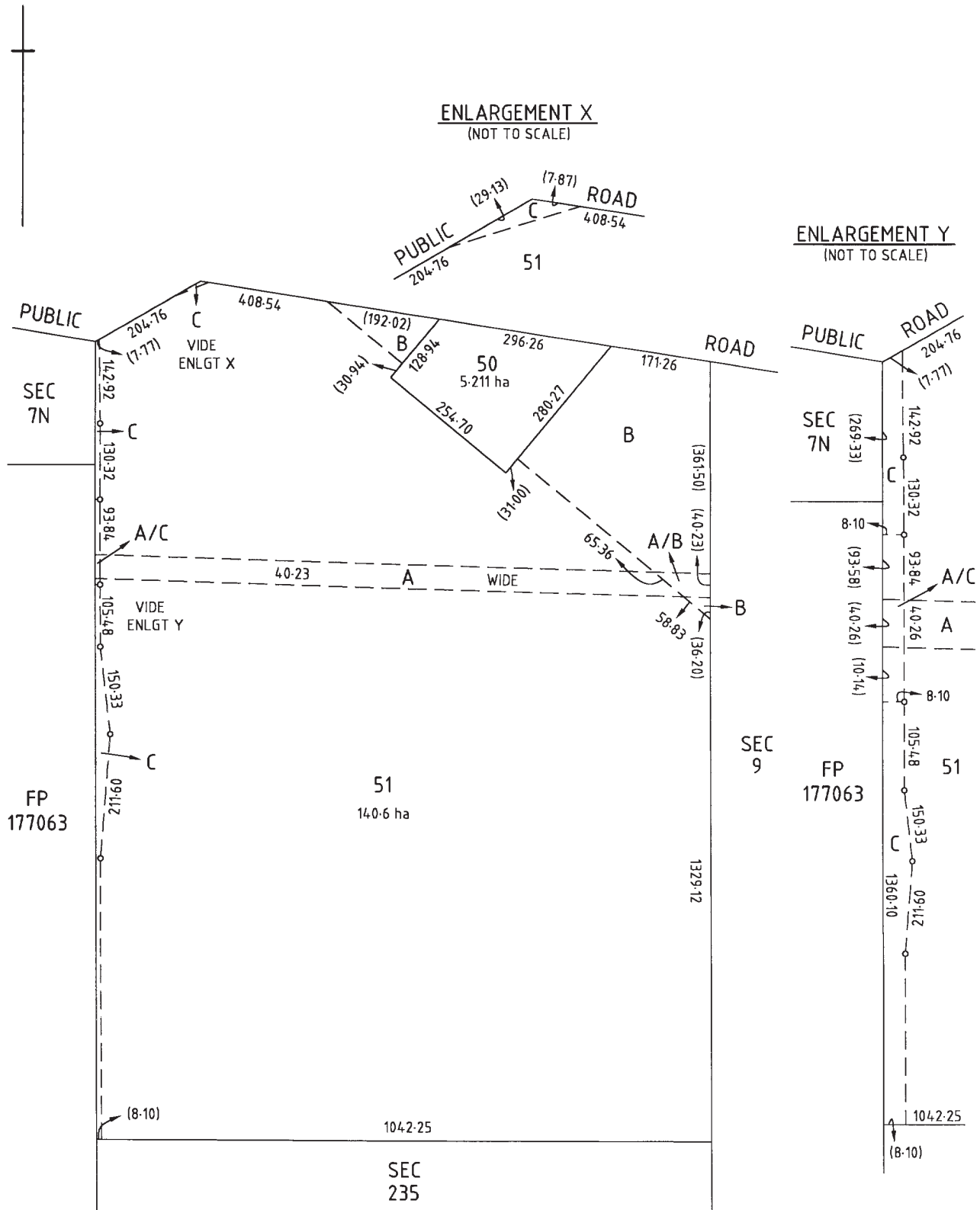
Notations

Dealings Affecting Title NIL
Priority Notices NIL
Notations on Plan NIL


Registrar-General's Notes

APPROVED FX251560

Administrative Interests NIL



APPROVED - NOT YET DEPOSITED

PURPOSE: DIVISION MAP REF: 6730/49/G, 6730/49/H, 6730/49/A, 6730/49/B LAST PLAN:	AREA NAME: BRIGHT COUNCIL: REGIONAL COUNCIL OF GOYDER DEVELOPMENT NO.:	APPROVED: STELLA VAGENAS 25/02/2019 DEPOSITED:	 <h2 style="text-align: center;">D120572</h2> SHEET 1 OF 3 <small>65154_text_01_v05_Version_5</small>
AGENT DETAILS: ALEXANDER & SYMONDS PTY LTD 1ST FLOOR 11 KING WILLIAM ST KENT TOWN SA 5067 PH: 81301666 FAX: 83620099 AGENT CODE: ALSY REFERENCE: A064518LTC(A)			
SURVEYORS CERTIFICATION: I DAMIAN JOHN HOLLAND, a licensed surveyor do hereby certify - 1) That this plan has been made from surveys carried out by me or under my personal supervision and in accordance with the Survey Act 1992. 2) That the field work was completed on the 24th day of October 2018 25th day of February 2019 Damian Holland Licensed Surveyor			
SUBJECT TITLE DETAILS:			
PREFIX 5689 CT	VOLUME 927 CT	FOLIO 928 CT	OTHER ALLOTMENT(S) ALLOTMENT(S)
NUMBER 50 CT	PLAN D CT	NUMBER 51338 BRIGHT CT	DIVISION TOWN TOWN CT
REFERENCE NUMBER SECTION 8N CT	REFERENCE NUMBER SECTION 8N CT		
OTHER TITLES AFFECTED:			
EASEMENT DETAILS:			
STATUS EXISTING 302 CT	LAND BURDENED LONG CT	FORM LONG CT	CATEGORY EASEMENT(S) CT
IDENTIFIER A CT	PURPOSE CT	IN FAVOUR OF TRANSMISSION LESSOR CORPORATION OF 1 UNDIVIDED 2ND PART (SUBJECT TO LEASE 9061500) AND ELECTRANET PTY. LTD. OF 1 UNDIVIDED 2ND PART CT	CREATION T 3030798 CT
IDENTIFIER B CT	PURPOSE CT	IN FAVOUR OF TRANSMISSION LESSOR CORPORATION OF 1 UNDIVIDED 2ND PART (SUBJECT TO LEASE 9061500) AND ELECTRANET PTY. LTD. OF 1 UNDIVIDED 2ND PART CT	CREATION T 5085252 CT
IDENTIFIER C CT	PURPOSE CT	IN FAVOUR OF DISTRIBUTION LESSOR CORPORATION (SUBJECT TO LEASE 8890000) CT	CREATION T 5276850 CT
ANNOTATIONS: NO OCCUPATION ON SUBJECT LAND BOUNDARIES UNLESS SHOWN OTHERWISE			

D120572

SHEET 2 OF 3

66154_pland_1_V04_Version_5

BEARING DATUM: MGA 94 ZONE 54

DERIVATION: GNSS OBS

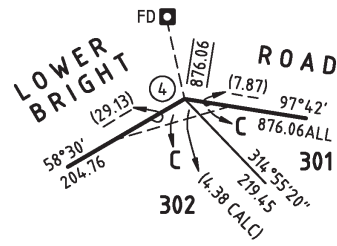
TOTAL AREA:

REFERENCE MARKS

CNR	BEARING	FROM	DIST	PM NO
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4	165°58'	PM FD	21.11	6730/1418
5	190°04'	PM FD	1.02	6730/1417
6	218°18'	PM FD	0.99	6730/1416
7	358°41'	PM FD	0.25	6730/1297
8	358°15'	PM FD	0.45	6730/1296
11	2°26'30"	MP	0.78	
12	338°18'	MP	0.91	
13	330°22'	MP	1.17	
14	7°10'	MP	1.36	
15	176°52'50"	MP	36.23	
17	207°34'	MP	1.38	

FIRST FIX

ENLARGEMENT A2
NOT TO SCALE

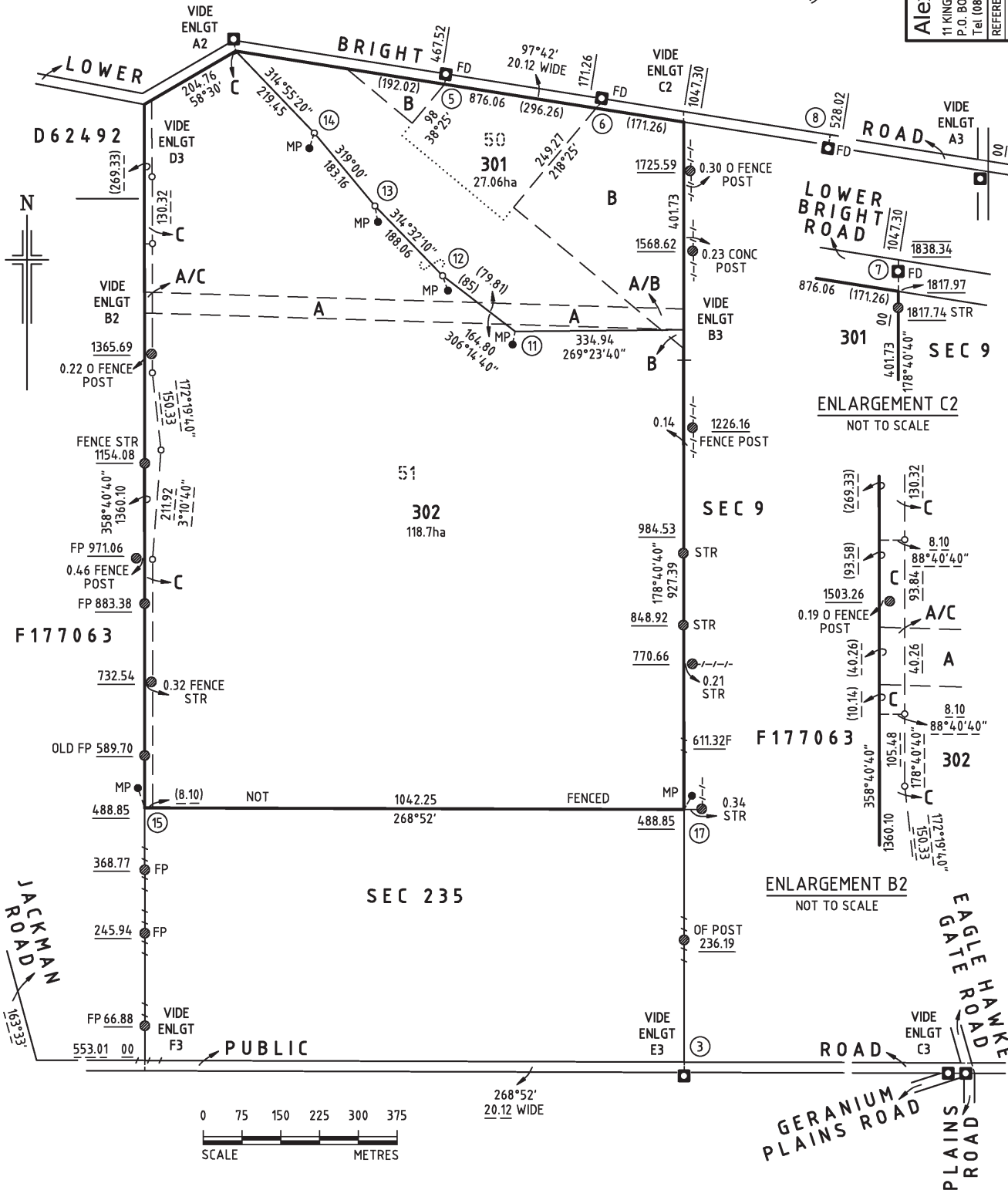


Alexander & Symonds Pty. Ltd.

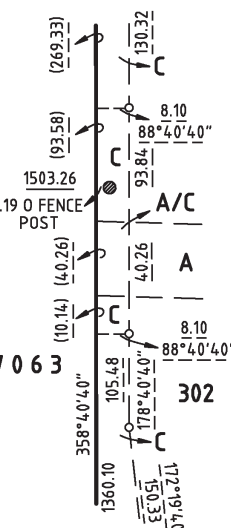
11 KING WILLIAM STREET, KENT TOWN
P.O. BOX 1000 KENT TOWN 5071
Tel (08) 8130 1666 Fax (08) 8362 0099 A.B.N. 93 007 753 988

REFERENCE: A064518LTO(A)

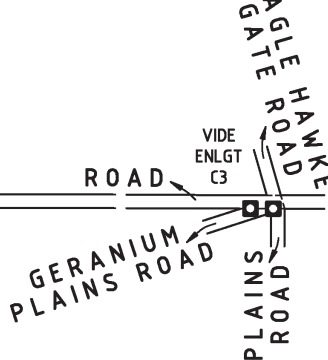
PAP 01/11/2018



ENLARGEMENT C2
NOT TO SCALE



ENLARGEMENT B2
NOT TO SCALE



APPROVED - NOT YET DEPOSITED

APPROVED - NOT YET DEPOSITED

REFERENCE MARKS

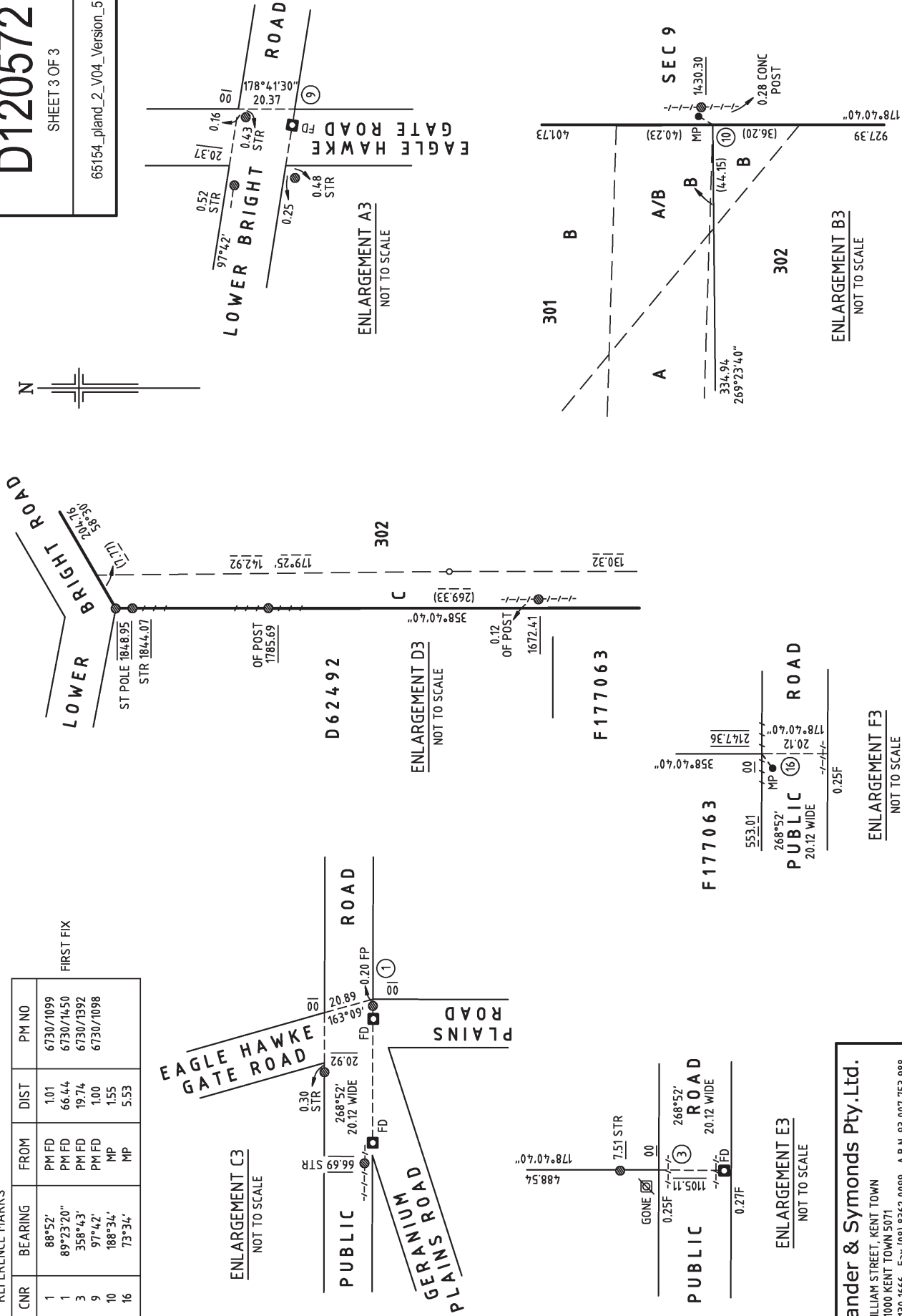
CNR	BEARING	FROM	DIST	PM NO
1	88°52'	PM FD	1.01	6730/1099
1	89°23'20"	PM FD	66.44	6730/1450
3	358°43'	PM FD	19.74	6730/1392
9	97°42'	PM FD	1.00	6730/1098
10	188°34'	MP	1.55	
16	73°34'	MP	5.53	

FIRST FIX

D120572

SHEET 3 OF 3

66154_pland_2_V04_Version_5



Alexander & Symonds Pty. Ltd.
 11 KING WILLIAM STREET, KENT TOWN
 P.O. BOX 1000 KENT TOWN 5071
 Tel (08) 8130 1666 Fax (08) 8362 0099 A.B.N. 93 007 753 988
 REFERENCE A0645181.T0(A)
 PAP 02/ 11/2018

ALEXANDER & SYMONDS PTY LTD (ALSY)
POST OFFICE BOX 1000
KENT TOWN
SA 5067

LTO BOX 118

25 February 2019

CONFIRMATION OF PLAN APPROVAL

Plan Reference: D120572
Job ID: 65154
Agent Reference: A064518LTO(A)
Lodgement Date: 29/01/2019
Title Details: CT 5689/927
CT 5689/928
Registered Proprietor/s: JOHN ROBERT LIPSCHINSKI
TRANSMISSION LESSOR CORPORATION
Location: 192 LOWER BRIGHT ROAD, BRIGHT, SA 5381
Approval Date: 25/02/2019

Requirements to be fulfilled or Complied with:

The deposit of the plan and subsequent issue of new Certificates of Title may depend on the lodgement of further documentation in a registrable form.



Brenton Pike

Chief Executive Officer

Land Services SA

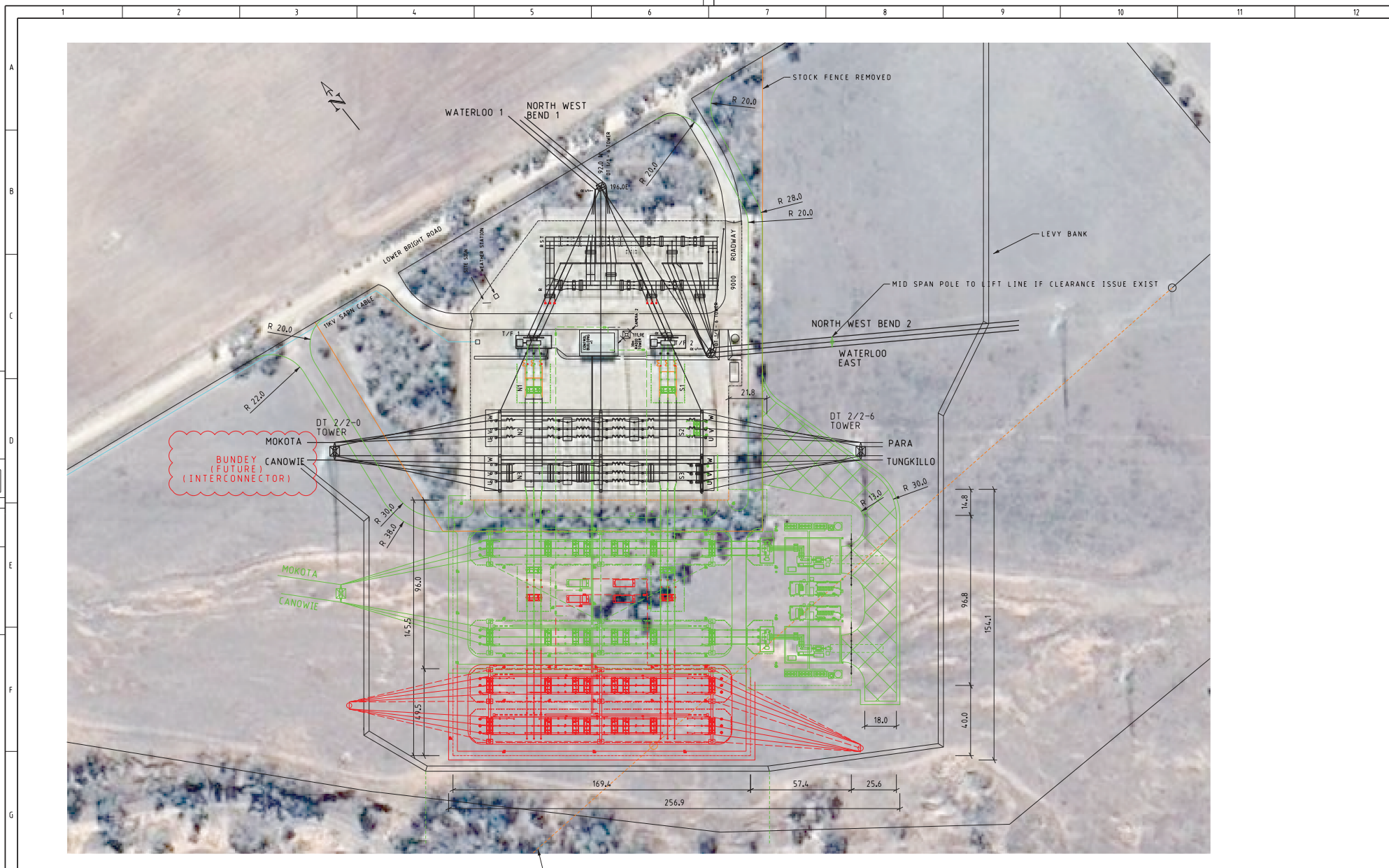
Land Services SA acting under delegation of the Registrar-General pursuant to section 17 of the Real Property Act 1886 (SA).

Appendix B Substation Drawings

TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING



0mm
50
100
150



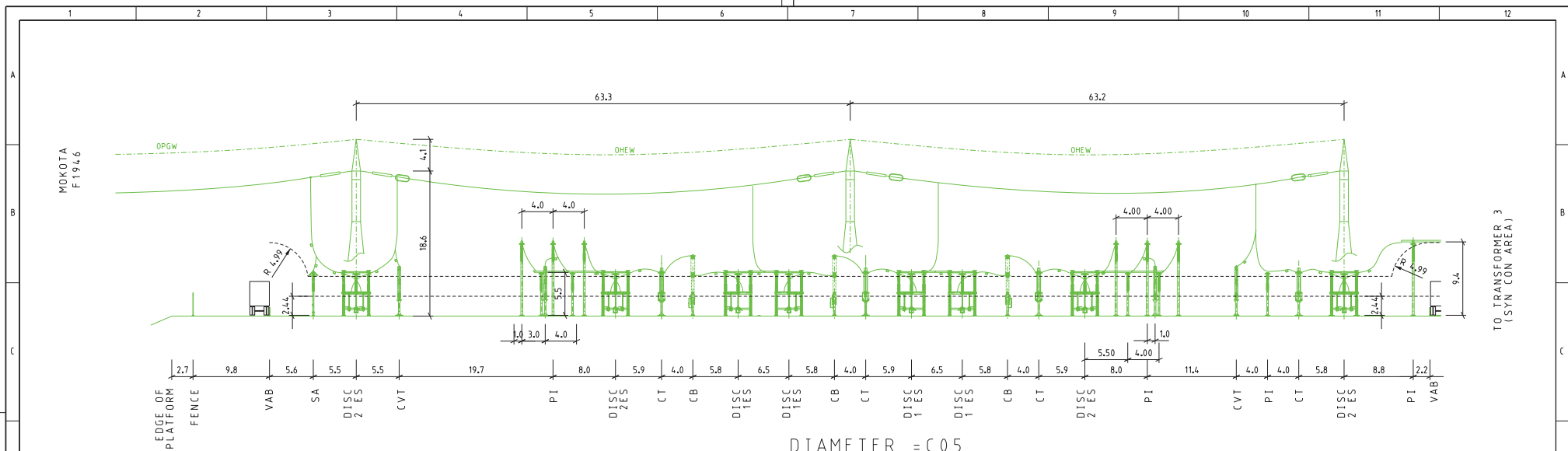
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				REV	DETAILS OF REVISION	MP	MAB	CD																																							
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FUTURE S.O.W.	—																																														
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DRAWING WAS PREVIOUSLY:	REV																																														
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DRN	M. POWERS	TITLE																																													
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INSP	G. J. BERGHOLCS	PROJECT	A1 310 215/605-018																																												
AUTH	C. DAVID	REV	A																																												

ElectraNet
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 30/05/2019 REV A.1
 PROJECT # 14219
 SIGNED _____

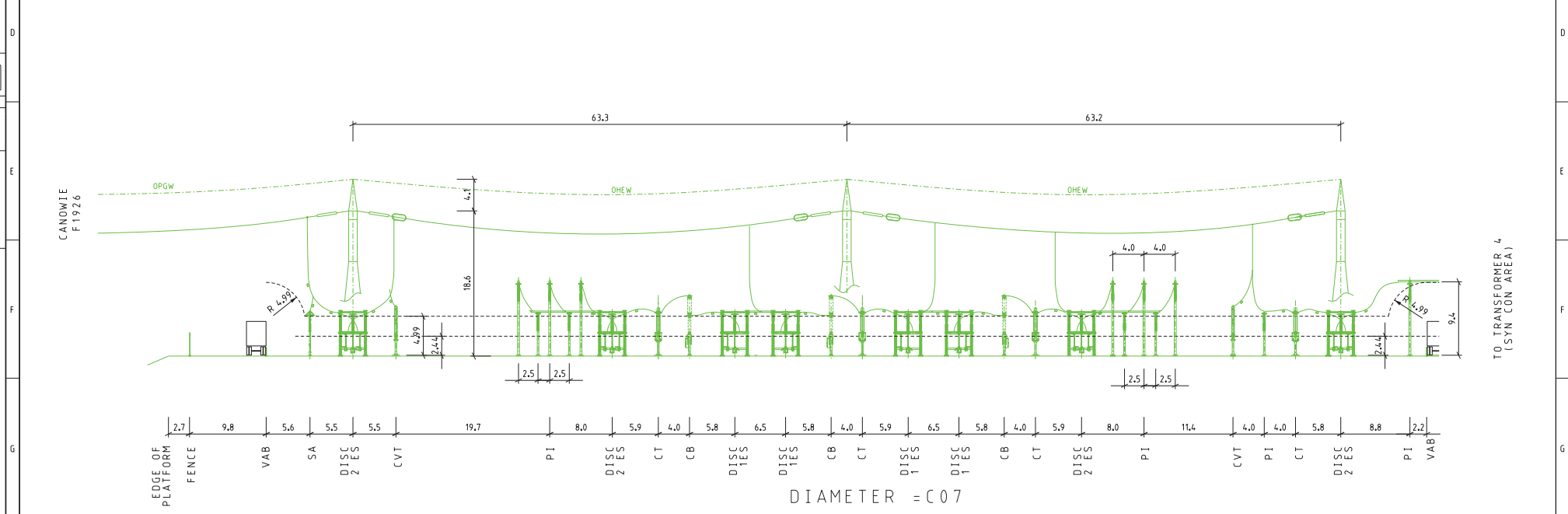
TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING



150
100
50
0mm



TO TRANSFORMER 3
(SYN CON AREA)



TO TRANSFORMER 4
(SYN CON AREA)

CREATED FROM TEMPLATE:		REV	SUB TITLE	
DRAWING WAS PREVIOUSLY:		REV		= C05 AND = C07
		ElectraNet - electricity transmission		
		PRELIMINARY ELEVATION SECTION ROBERTSTOWN SUBSTATION		
		SCALE	1:250	REV A
		A1 310 215/608-012		

REV	DETAILS OF REVISION	MP	MAB	CD
1	2	RVD	CKD	APD DATE
A	14219 FIRST ISSUE - ENET			

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LEGEND	
CURRENT S.O.W.	
FUTURE S.O.W.	
EXISTING ASSETS	
DECOMMISSIONED	

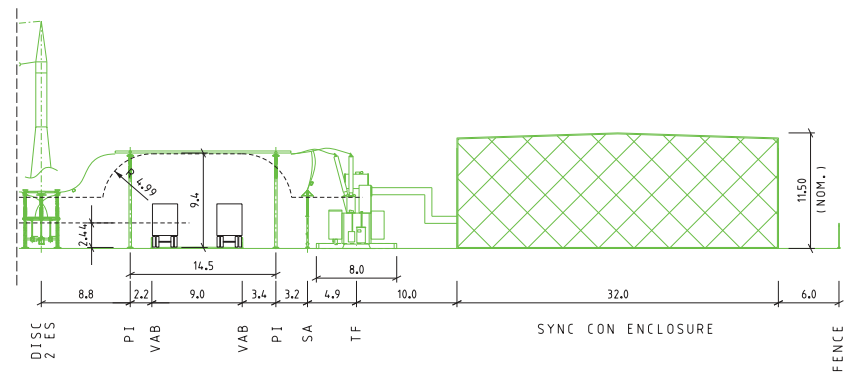
ElectraNet
 ISSUED FOR INFORMATION
 30/05/19 REV A.1
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DRN	M. POWERS
CKD	M. ABU BAKER
INSP	G. J. BERGHOLCS
AUTH	C. DAVID

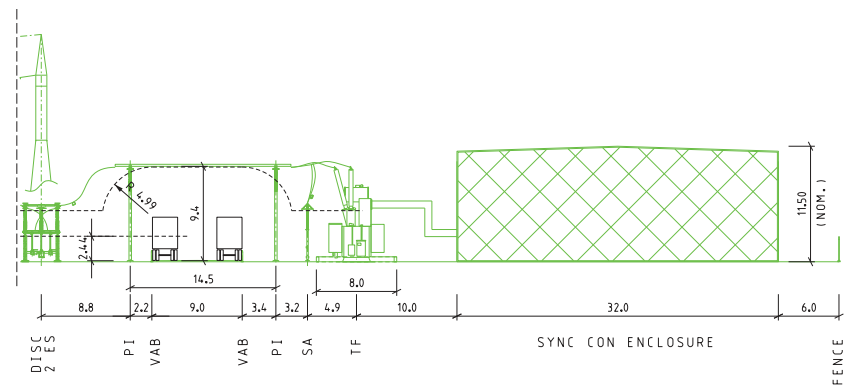
TITLE		SCALE	1:250	REV	A	DISTB
		A1 310 215/608-012				

TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING

150
100
50
0mm



TRANSFORMER 3 AND SYNCON 1 AREA



TRANSFORMER 4 AND SYNCON 2 AREA

REV	DETAILS OF REVISION	RVD	CHK	APP	DATE
A	14219 FIRST ISSUE - ENET	MP	MAB	CD	

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FUTURE S.O.W.	
EXISTING ASSETS	
DECOMMISSION	

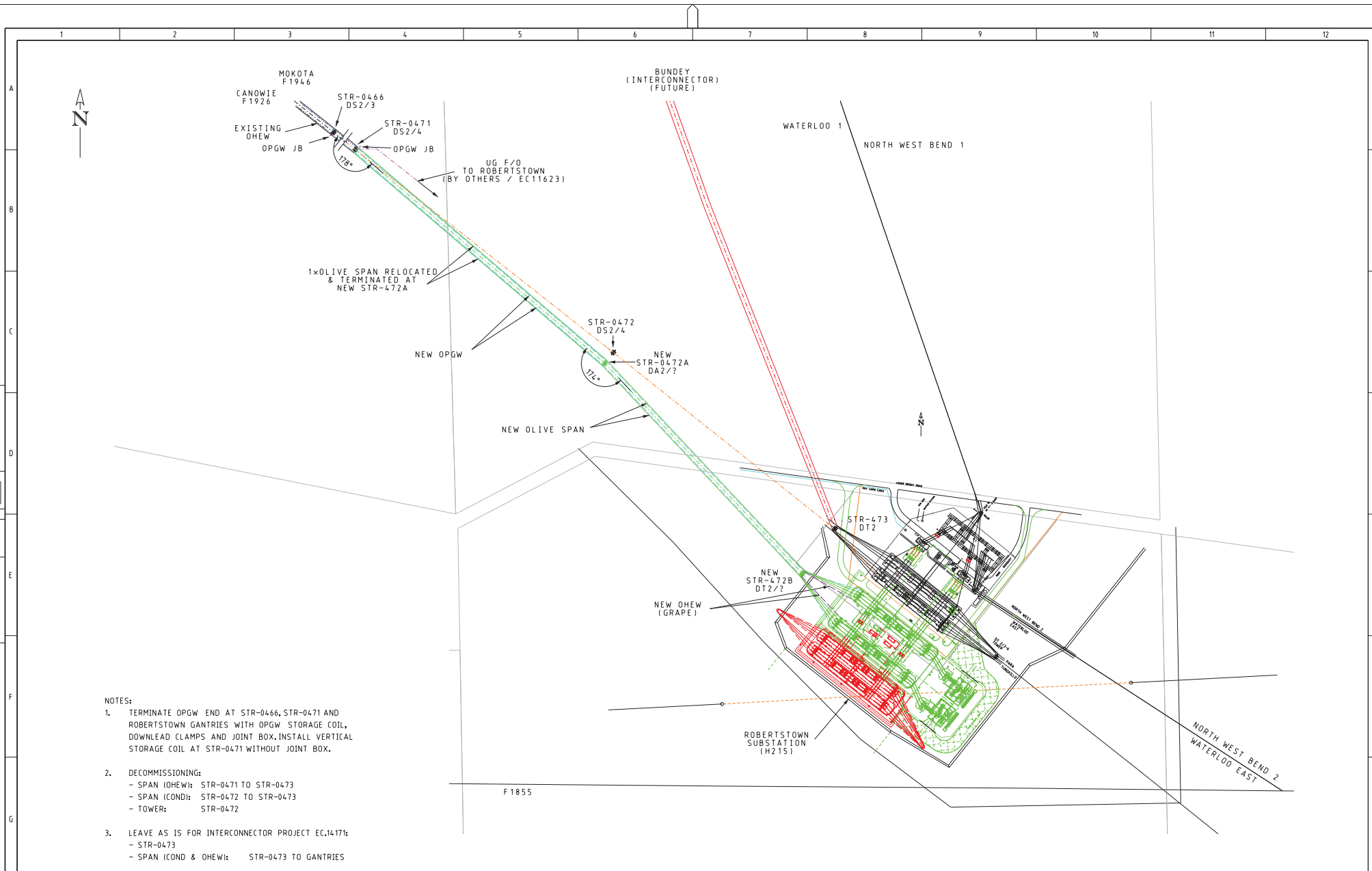
ElectraNet
 ISSUED FOR INFORMATION
 31/05/19 REV A.1
 PROJECT # 14219
 SIGNED _____

CREATED FROM TEMPLATE:	REV	SUB TITLE
DRAWING WAS PREVIOUSLY:	REV	TRANSFORMER 3 & 4 AND SYNCHRONOUS CONDENSERS 1 & 2 - OPTION 2
DRN	M. POWERS	ElectraNet - electricity transmission
CHK	M. ABU BAKER	TITLE
INSP	G. J. BERGHOLCS	PRELIMINARY ELEVATION SECTION
AUTH	C. DAVID	ROBERTSTOWN SUBSTATION
SCALE	1:250	A1 310 215/608-014
REV	A	DISTB

Appendix C Transmission Line Drawings

TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING

150
100
50
0mm



- NOTES:**
1. TERMINATE OPGW END AT STR-0466, STR-0471 AND ROBERTSTOWN GANTRIES WITH OPGW STORAGE COIL, DOWNLEAD CLAMPS AND JOINT BOX. INSTALL VERTICAL STORAGE COIL AT STR-0471 WITHOUT JOINT BOX.
 2. DECOMMISSIONING:
 - SPAN (OHEW): STR-0471 TO STR-0473
 - SPAN (COND): STR-0472 TO STR-0473
 - TOWER: STR-0472
 3. LEAVE AS IS FOR INTERCONNECTOR PROJECT EC.14.171:
 - STR-0473
 - SPAN (COND & OHEW): STR-0473 TO GANTRIES

REV	DETAILS OF REVISION	RVD	CHK	APP	DATE
A	14219 FIRST ISSUE - ENET		MP	JD	CD

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LEGEND	
CURRENT S.O.W.	—
FUTURE S.O.W.	—
EXISTING ASSETS	—
DECOMMISSIONED	—

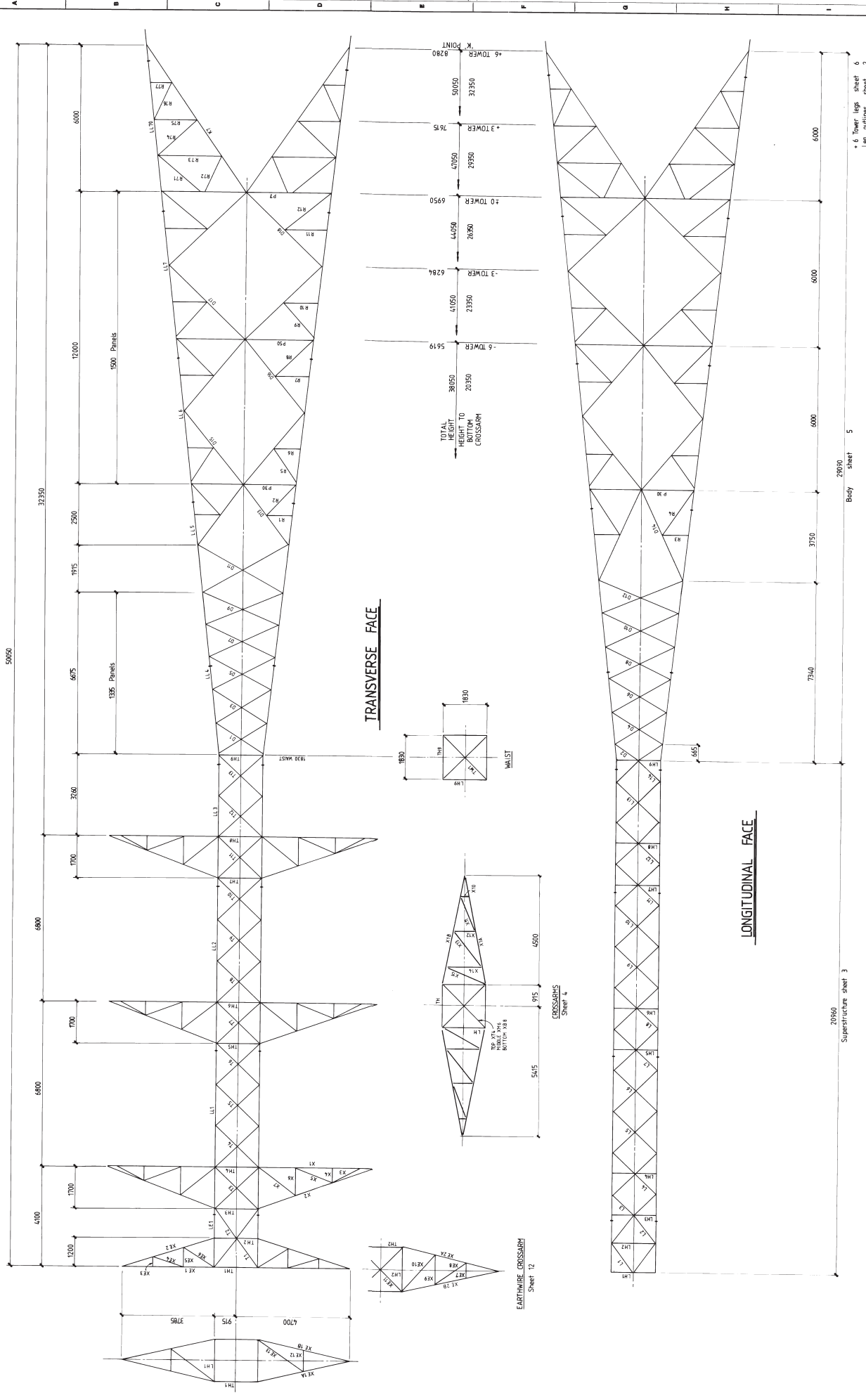
ElectraNet
ISSUED FOR INFORMATION
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 PROJECT # 14219
 SIGNED _____

CREATED FROM TEMPLATE: _____
 DRAWING WAS PREVIOUSLY: _____

REV	SUB TITLE

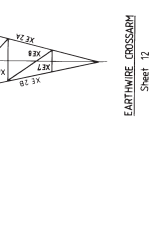
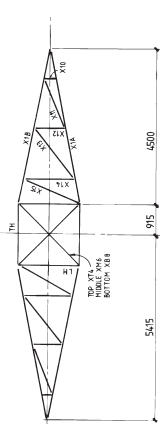
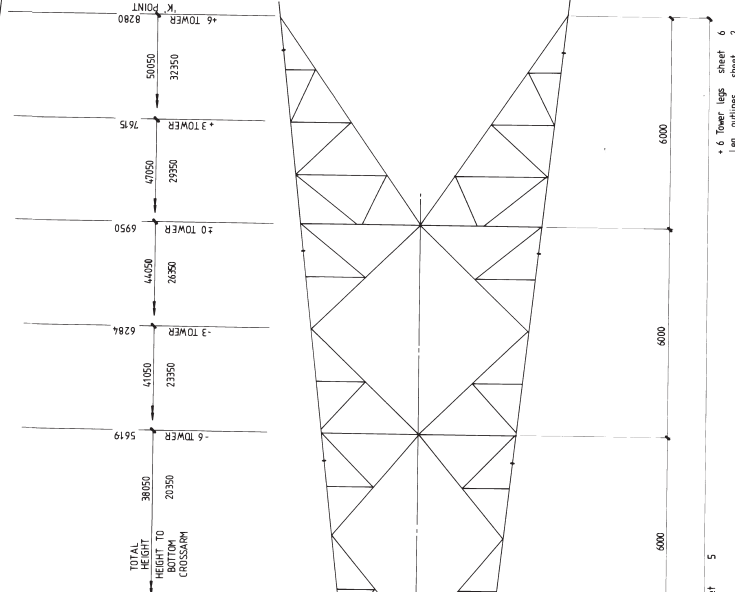
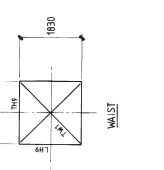
ElectraNet - electricity transmission	
PROPOSED LINE ROUTE CORRIDOR	
ROBERTSTOWN - MOKOTA & CANOWIE	
DRN	M. POWERS
CHK	J. DAVIS
INSP	J. MCCORMACK
AUTH	C. DAVID
TITLE	
SCALE	1:2500
PROJECT	A13 02134/500-001
REV	A
DATE	20/05/19

B1- 08675 1



TRANSVERSE FACE

LONGITUDINAL FACE



SHEETS	6-11	LEGS ARRANGEMENTS
5	5	BODY
4 & 12	4 & 12	CROSSARMS
3	3	SUPERSTRUCTURE
2	2	LEGS OUTLINES
		REFERENCE DRAWINGS

THE ELECTRICITY TRUST OF SOUTH AUSTRALIA			
275KV TRANSMISSION LINES			
PIPE CIRCUIT SUSPENSION TOWER			
DRAWING NO. BI-08675 1			
SCALE 1:50			
DRN	DESIGNED BY	CHKD	CHECKED BY
	W. J. GARDNER		
INSPI	INSPECTED BY	APPROV	APPROVED BY
REV	REVISION	DATE	BY

0 1000 2000 3000 4000 5000mm
UNREDUCED SCALE 1:150

20980 Superstructure sheet 3

Body sheet 5

+6 Tower legs sheet 6

Leg outlines sheet 2