

APPLICATION ON NOTIFICATION – ESSENTIAL INFRASTRUCTURE

Type of development:	PLANNING, DEVELOPMENT AND INFRASTRUCTURE ACT 2016 SECTION 131 – ESSENTIAL INFRASTRUCTURE
Development Number:	010/V082/17 V2
Applicant:	Solar River Project Pty Ltd
Nature of Development:	Variation to 010/V082/17 Solar River Project: construction of a new switchyard and the realignment of the approved transmission line and associated civil works
Subject Land:	Lower Bright Road, Bright
Development Plan:	Goyder Council Development Plan (Consolidated 24 November 2016) (new switchyard); Planning and Design Code (approved solar farm)
Zone / Policy Area:	Primary Production Zone (new switchyard); Remote Areas Zone (approved solar farm)
Contact Officer:	Laura Kerber
Phone Number:	7109 7073
Consultation Start Date:	1 April 2020
Consultation Close Date:	1 May 2020
<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:

Development Division
Department of Planning, Transport and Infrastructure
Level 5, 50 Flinders Street
ADELAIDE

Email Address: scapreps@sa.gov.au



PLANNING, DEVELOPMENT AND INFRASTRUCTURE ACT 2016

NOTICE OF APPLICATION FOR CONSENT TO DEVELOPMENT

SECTION 131 – ESSENTIAL INFRASTRUCTURE

Notice is hereby given that an application has been made by the **Solar River Project Pty Ltd** to vary the previous development approval for the Solar River Project (under DA 010/V082/17), comprising a solar farm, battery storage system, overhead transmission line, and ancillary infrastructure. The variation is for the construction of a new switchyard and the realignment of the approved transmission line and associated civil works. **Development Application: 010/V082/17 V2.**

The switchyard site is located at Lower Bright Road, Bright (a301, DP120572: CT 6230/206; and s9, HP 200300: CT 5970/794). The approved solar farm is situated at Balah Road, Warnes (s1352, HP835800: CL 6213/753).

The overall development is located within land use planning zones established under both the *Development Act 1993* and the *Planning, Development and Infrastructure Act 2016*. The variation application will be assessed under the PDI Act.

The switchyard site is located within the Primary Production Zone of the Goyder Council Development Plan (Consolidated 24 November 2016). The solar farm component of the development is located within the Remote Areas Zone of the Planning and Design Code (Phase 1 dated 1 July 2019).

The application may be examined during normal office hours at the office of the State Commission Assessment Panel, Level 5, 50 Flinders Street. Application documentation may also be viewed on the State Commission Assessment Panel (SCAP) website:
www.saplanningcommission.sa.gov.au/scap.

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 1 May 2020.**

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 **Laura Kerber** on **7109 7073** or laura.kerber@sa.gov.au.

Jessie Surace

SECRETARY

STATE COMMISSION ASSESSMENT PANEL

scapreps@sa.gov.au

PLANNING, DEVELOPMENT AND INFRASTRUCTURE ACT 2016
SECTION 131 – ESSENTIAL INFRASTRUCTURE
REPRESENTATION ON APPLICATION

Applicant: Solar River Project Pty Ltd
Development Number: 010/V082/17 V2
Nature of Development: Variation to 010/V082/17 Solar River Project: construction of a new switchyard and the realignment of the approved transmission line and associated civil works (must be consistent with APPIAN description)
Zone / Policy Area: Primary Production Zone – Goyder Council Development Plan (new switchyard); Remote Areas Zone – P&D Code (approved solar farm)
Subject Land: Lower Bright Road, Bright
Contact Officer: Laura Kerber
Phone Number: 7109 7073
Close Date: 1 May 2020

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)

PLANNING, DEVELOPMENT AND INFRASTRUCTURE ACT 2016
SECTION 131 – ESSENTIAL INFRASTRUCTURE
REPRESENTATION ON APPLICATION

Signature: _____

Date: _____

10 March 2020

Simon Neldner
Department of Planning, Transport and Infrastructure
GPO Box 1815
Adelaide SA 5001

Dear Simon

RE: The Solar River Project - Proposed Switchyard DA 010/V082/17 V2 - Response to Request for Further Information

AECOM Australia Pty Ltd (AECOM) has been engaged by The Solar River Project (the applicant), to provide planning advice and support in respect to the proposed development of a new switchyard (DA 0101/V082/17 V2) in association with the Solar River Project.

This letter provides a response to the information requests received from the Department of Planning, Transport and Infrastructure (DPTI) in relation to Development Application 0101/V082/17 V2. An initial request was issued on 9 January 2020. As a result of the provision of additional information by the applicant, a subsequent information request, outlining the outstanding items, was issued to the applicant on 4 February 2020.

A response to outstanding items raised within the 4 February 2020 information request is provided below.

Subject Land

DPTI Request:

1. *Confirmation required regarding the subject land parcels relevant to this variation, noting that the new Switchyard necessitates an altered route for a portion of the transmission line.*

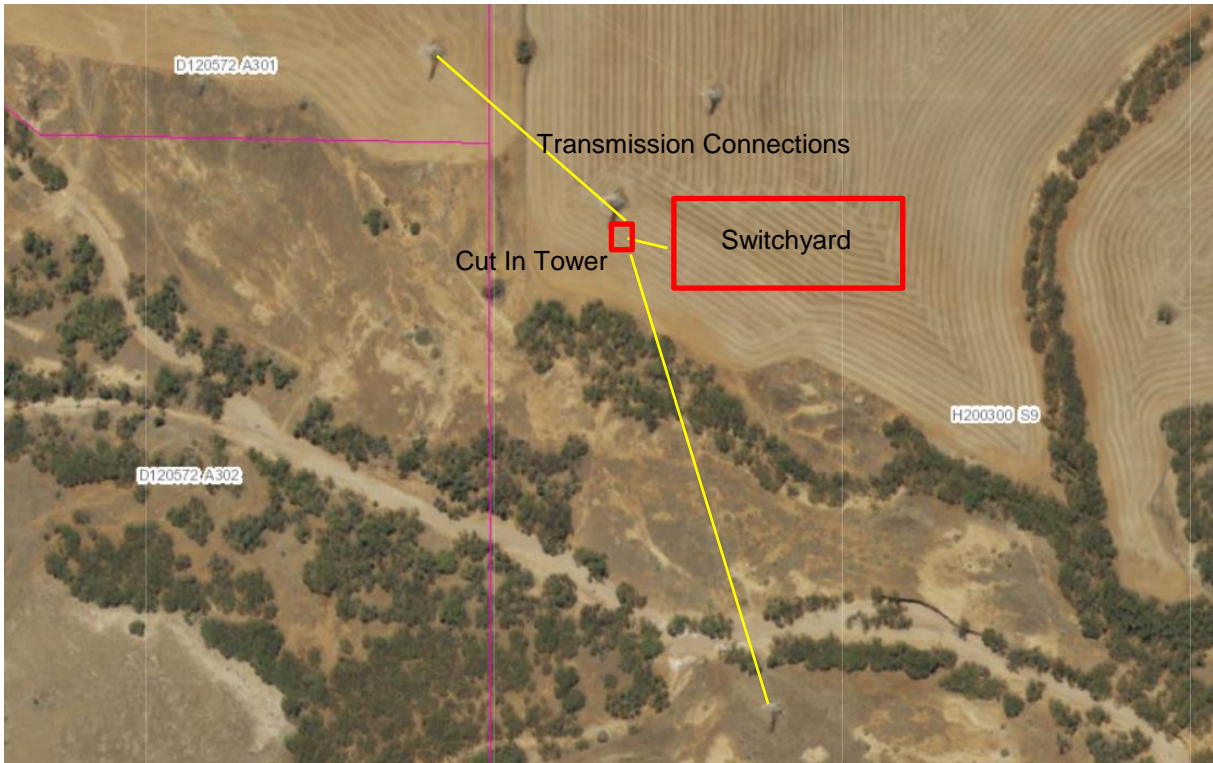
The proposed development will affect the following parcels of land:

- Section 9 in HP200300, contained with CT 5970/794
- Allotment 301 in DP120572, contained with CT 6230/206

The switchyard (including the proposed access road) will be sited on Section 9. Connection from the proposed switchyard cut-in tower will be provided to the existing 275kV transmission towers located on Section 9 (to the south) and Allotment 301 (to the east).

The proposed siting of the development in relation to allotment boundaries is shown on Figure 1 on the following page.

Figure 1 Siting of Proposed Development –



Source: NatureMaps (<http://spatialwebapps.environment.sa.gov.au/>)

Transmission Line Variation

DPTI Request:

2. The 'DA approved route' and associated 100m buffer as shown in figure 1.0 of the lodgement document is inconsistent with the approved route per 010/V082/17 V1 (refer Stamped Plans – pg 61). Please confirm the intention for this variation to include an amendment to the transmission line route within the above identified allotments, as a result of construction of the switchyard.

Development Application 0101/V082/17 V2 is proposing an amendment to the approved transmission line (as detailed in 010/V082/17 V1).

The transmission line alignment is proposed to be amended, as illustrated in the application documents, to enable connection into and from the proposed switchyard. The variation to the transmission route will be limited to Section 9 and Allotment 301.

Height of Transmission Line

DPTI Request:

3. Confirmation required regarding height of transmission line connection between the proposed Switchyard and the Robertstown Substation (60m?)

The proposed switchyard will be connected to the existing transmission line via the proposed cut-in tower. The height of the proposed transmission connection will be consistent with the existing transmission line which comprises a height of approximately 50 metres.

Approval Dates

DPTI Request:

4. *The approval dates referred to on page 1 of the application letter remain are incorrect. Refer to the RFI email for the correct dates.*

An amended application letter referencing the correct approval dates has been prepared and is attached (Attachment A).

Proposal Plans

DPTI Request:

5. *The indicative site plan provided incorrectly labels the facility as a 'Substation'. Temporary laydown areas are not shown.*
6. *The switchyard layout plan provided is poor quality. The 'example connection yard' is not consistent with the layout plan/site plan.*
7. *The elevations provided are of poor quality, illegible and not to scale. The elevations do not indicate the level of cut and fill required for the development.*
8. *The proposed fencing details are provided in writing only – scaled concept drawings with dimensions should be provided.*

In response to the above items, updated and additional plans have been prepared and are provided in Attachment B.

The plans attached include:

- Site Plans
- Elevations for the proposed switchyard (including fill detail) and cut-in tower
- Fencing details and elevations

We note that the attached plans include a watermark 'For Information Only' over them. The plans have been prepared by ElectraNet and the watermark is required to be retained for ElectraNet's internal purposes. Notwithstanding the inclusion of the watermark, the attached plans are applicable to the proposed development and the assessment of the application.

Ecology and Heritage Assessment

DPTI Request:

10. *The consultant reports have been provided however there is no discussion in the application regarding the impact of the Switchyard on fauna, flora or heritage. Was this portion of land included in the original ecological/heritage assessments? Potential impacts from cut and fill and resultant erosion etc should also be considered.*

An assessment of the land affected by the proposed development was not included as part of the previous flora and fauna studies which have been undertaken in support of the Solar River Project.

As a result, the project ecologist (Kleinfelder) have undertaken a further assessment of the subject site. The ecologist has provided the following comments:

The Solar River Project, are proposing to modify the location of powerlines and the Substation at the Robertstown end of the powerline easement. Kleinfelder have reviewed the ElectraNet Sketch for Information (Dated 13/09/2019) Titled: Concept Preliminary Layout Robertstown – Solar River (30949-SK-S-011, REV A). Based on the proposed design layout, the impacts of the proposal

should not increase from the previous design as it appears all infrastructure is located within areas of Exotic Grasslands and Cropping Lands.

To ensure the proposed design is in accordance with the previous impact assessment:

- *All areas of infrastructure including, the Substation, pole locations and access tracks, are to be placed with Exotic Grasslands and Cropping Lands.*
- *Pole SRP-C13 and associated pad, is to be placed at a distance from the drainage line so to no impact on any native vegetation.*
- *There should be no impact on trees within the draining line between pole SRP-C13 and SRP-C12.*

A copy of this advice is attached (Attachment C).

The applicant intends to adopt the above recommendations, and, on this basis, the proposed development will not result in any adverse flora and fauna impacts.

In regard to the heritage impacts, the proposed site was previously surveyed as detailed in the Cultural Heritage Report prepared by Blackwood Heritage Consulting, May 2019.

Further consultation with Ngadjuri Nation Aboriginal Corporation (NNAC) has occurred in relation to the proposed development. NNAC provided the following comments:

Please note that the Ngadjuri Nation Aboriginal Corporation (NNAC) do not have any problem with you building the proposed platform in the centre of the south-eastern area providing that it will not entail any major ground disturbance, and primarily consist of materials being brought in.

To establish an appropriate bench level for the switchyard, having regard to the relevant engineering requirements, an amount of fill will be required (approximately 1.5 metres). The final extend of the fill will be confirmed as part of the detailed design.

The proposed filling of the land will minimise the need for any major ground disturbance associated with the development which is consistent with the NNAC advice.

A copy of the NNAC advice is attached (Attachment D)

Consultation with ElectraNet

DPTI Request:

The Department has also processed an application to expand the Robertstown Substation. Please detail what discussions have been held with ElectraNet and secondly, any indicative layout plan should take into account the prospective changes for this facility (ie connections).

The applicant has had extensive discussions with ElectraNet regarding the proposed development.

The design and siting of the proposed switchyard has been undertaken by ElectraNet. The proposed site is the preferred location having regard to the existing and future requirements of the Robertstown Substation and surrounding network.

Should you have any questions in relation to the information provide please contact me on 0418 838 290.

Yours faithfully



Tom Hateley
Principal Planner
tom.hateley@aecom.com

Mobile: +61 418 838 290
Direct Dial: +61 8 7223 5400

encl: Attachment A - Updated Application Letter
Attachment B - Proposal Plans
Attachment C - Further Ecology Advice
Attachment D - NNAC Response
cc: Jason May - Solar River Project

Attachment A

Updated Application Letter



6 March 2020

Planning and Land Use Services
Department of Planning, Transport and Infrastructure
Level 5, 50 Flinders Street, Adelaide SA 5000
GPO Box 1815, Adelaide SA 5001, DX 171
E: dpti.duty.planner@sa.gov.au
Attn: Duty Planner
(DPTI)

Solar River Projectco Pty Ltd ACN 634 725 223
as trustee for Solar River Project Trust No. 1
ABN 42 253 459 301
Thinlab Office
Adelaide University Building
10 Pulteney Street,
Adelaide SA 5000
E: jmay@maybros.net
(SRP)

**RE: The Solar River Project - Development Number 010/V082/17 – Variation
ElectraNet National Grid Connection 275,000-volt Switchyard – Lot 9, Lower Bright
Road Robertstown, South Australia**

Property Title Reference H200300 Section 9, CT 5970/794

Dear Duty Planner

Background

We refer to the Development Approval for The Solar River Project labelled “Development Number 010/V082/17” approved on 15 June 2018 and as varied on 13 December 2018 (010/V082/17 V1)(DA).

We note that an extension of time for the substantial commencement (by 15 June 2020) and completion (by 15 June 2023) of the project was granted on 5 June 2019.

SRP seeks a development approval variation for an ElectraNet 275kV Switchyard to enable connection of the SRP generation facility to the national electricity grid, as detailed in this application.



Electranet has advised SRP will now need to connect to the national grid via the existing Para-Robertstown 275kV Transmission line 600m to the South East of the existing Robertstown Substation.

ElectraNet have advised the SRP exit has been moved due to Electranet's own internal requirements impacting the location of the SRP exit. A revised design was developed by ElectraNet and issued to SRP, refer attached.

The design is the same as an existing ElectraNet switchyards (deployed to connect generators elsewhere in South Australia) connected to the Para Robertstown 275kV line. The yard is circa 150 m x 80m, plus a new 60-metre tower. The tower will be located circa 50m to the West of the proposed yard to accommodate the cut into the existing Para-Robertstown line (refer attached). This design reduces community visual impact with 600m of proposed SRP transmission line no longer required.

The land owner is supportive with a lease option agreement signed. The proposed yard is located on heavily disturbed farming land, refer Kleinfelder and BHC Heritage survey reports, as submitted and accepted previously for the existing SRP development approval. A visualisation is also attached noting the permanent resident situated 400m to the East is an SRP project participant. The proposed yard is not visible from any occupied or unoccupied dwelling. The yard is screened from the aforementioned dwelling by existing native vegetation to the East. The yard is also screened by existing vegetation to the South, and the yard is situated 300 metres off Lower Bright Road in a natural valley in amongst existing ElectraNet transmission towers. The yard is also screened by the existing Robertstown Substation to the West.

The proposed yard is located on the existing DA approved SRP transmission line easement route and the development is contained within the approved development envelope.

Note GPS coordinates table detailing the easement are attached, a 20m wide access road, and temporary lay down area will be incorporated in to the design.

The detailed design will be completed in accordance with the existing DA Approval obligations inclusive of the SRP Construction, Heritage, Environment Management Plan CHEMP.



Care has been taken to avoid all native vegetation and heritage sites.

Kind Regards,

A handwritten signature in black ink, appearing to read "J. May", is centered on a light blue rectangular background.

Jason May
Managing Director
Solar River ProjectCo Pty Ltd



Definitions

The Yard – The yard is a 275,000-volt switching yard - consists of 2 x diameters of High Voltage switchgear, a control building, 40m high lattice structures, access road and a 2.4m high security fence.

Attachments

1. Kleinfelder Flora Fauna Report (as submitted previously)
2. Blackwood Heritage Report 190427_BHCSA_50.2_SolarRiver_MAY_Addendum_FINAL.pdf (as submitted previously)
3. Approved DA Route (as approved)
4. Proposed ElectraNet Switchyard
5. Easement GPS Coordinates Table
6. Example of exist site
7. Visualization

DA Approved Route

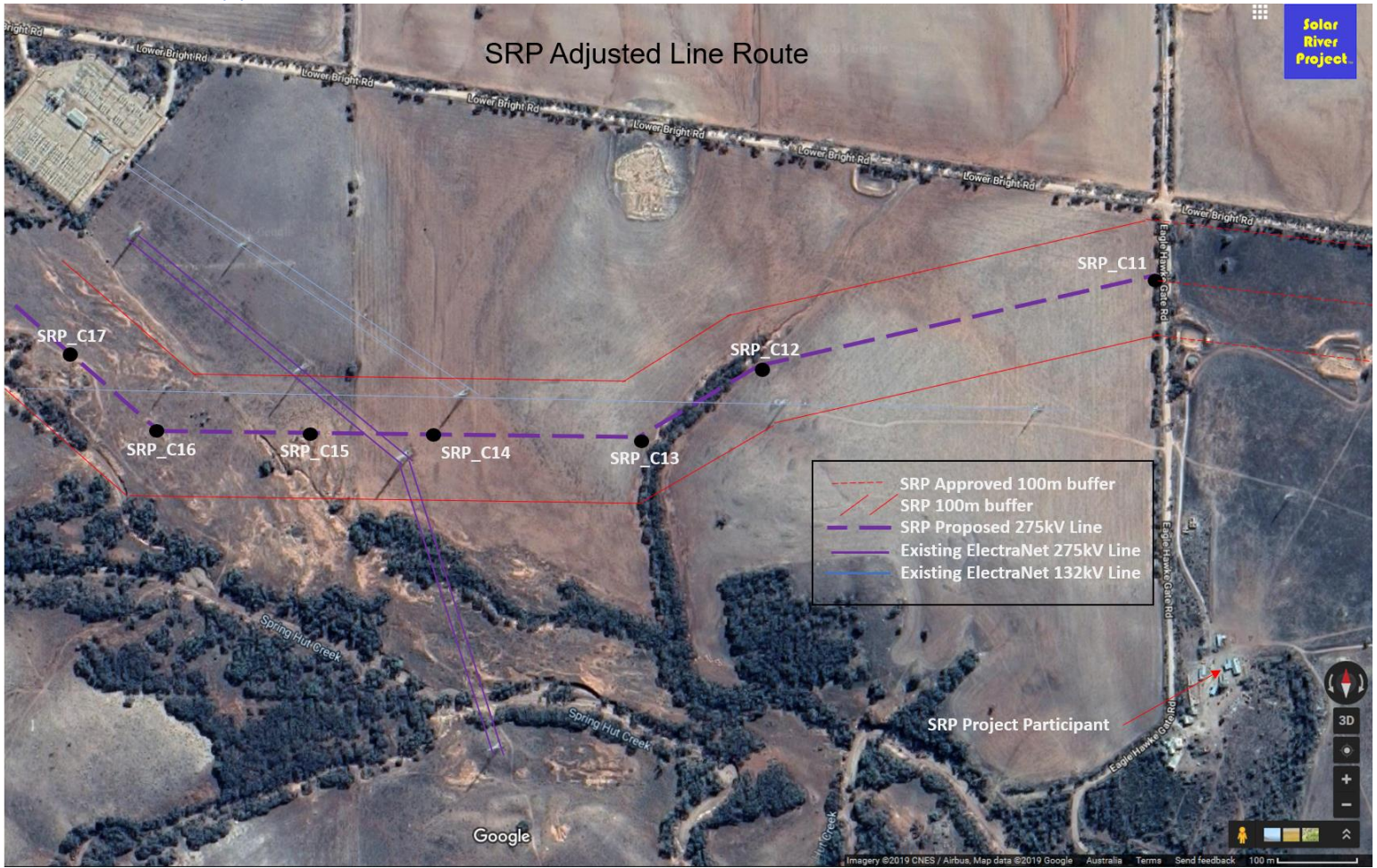


Fig 1.0

Proposed ElectraNet Switchyard

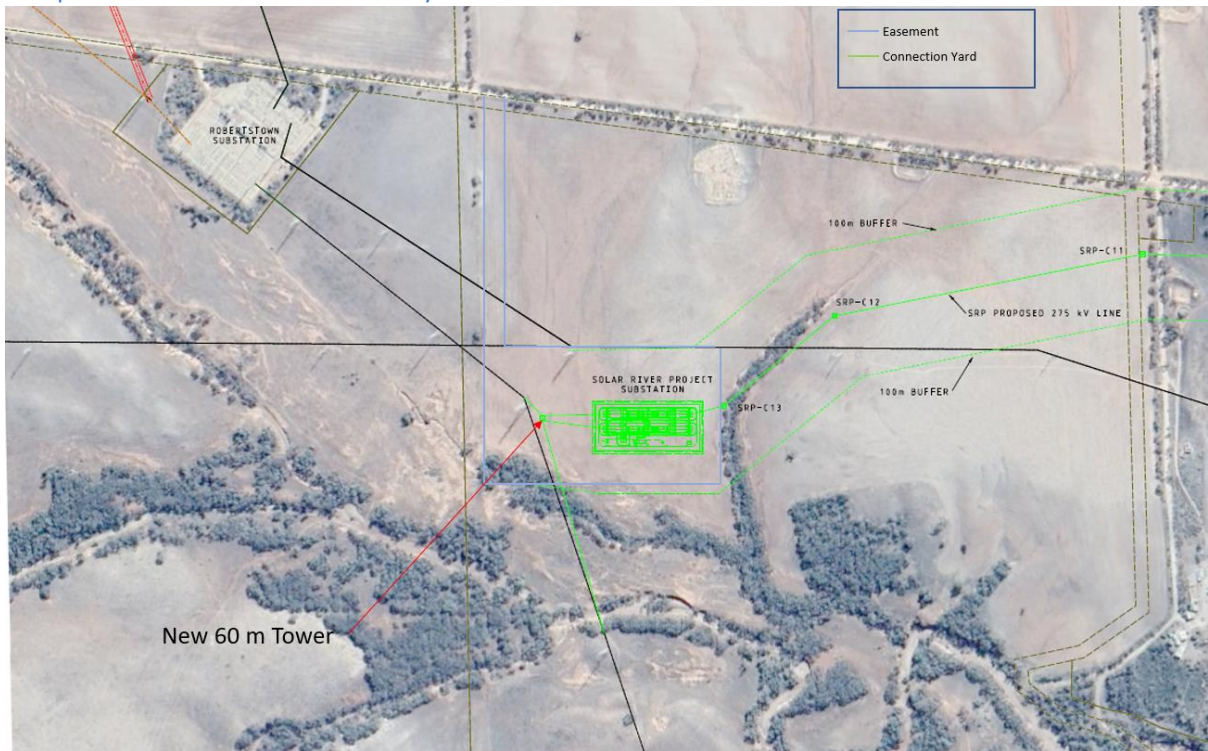


Fig 1.1 Proposed Switchyard Detailed in green highlight, within existing DA approved transmission line corridor

Easement GPS Coordinates



Fig 1.2 Coordinates A, B, C, D, E, F

GPS Coordinates table

Indicative Coordinates
A. 33°57'19.1"S 139°07'53.6"E
B. 33°57'31.3"S 139°07'53.8"E
C. 33°57'31.7"S 139°08'05.7"E
D. 33°57'37.5"S 139°08'05.9"E
E. 33°57'37.0"S 139°07'52.0"E
F. 33°57'19.0"S 139°07'52.2"E

Example Switchyard



Fig 1.3 Example switchyard yard foot print circa 150m x 80 metres (East - West)



Fig 1.4 Example switchyard yard (North - South)

Visualisation



Fig 1.5 View from Lower Bright Road

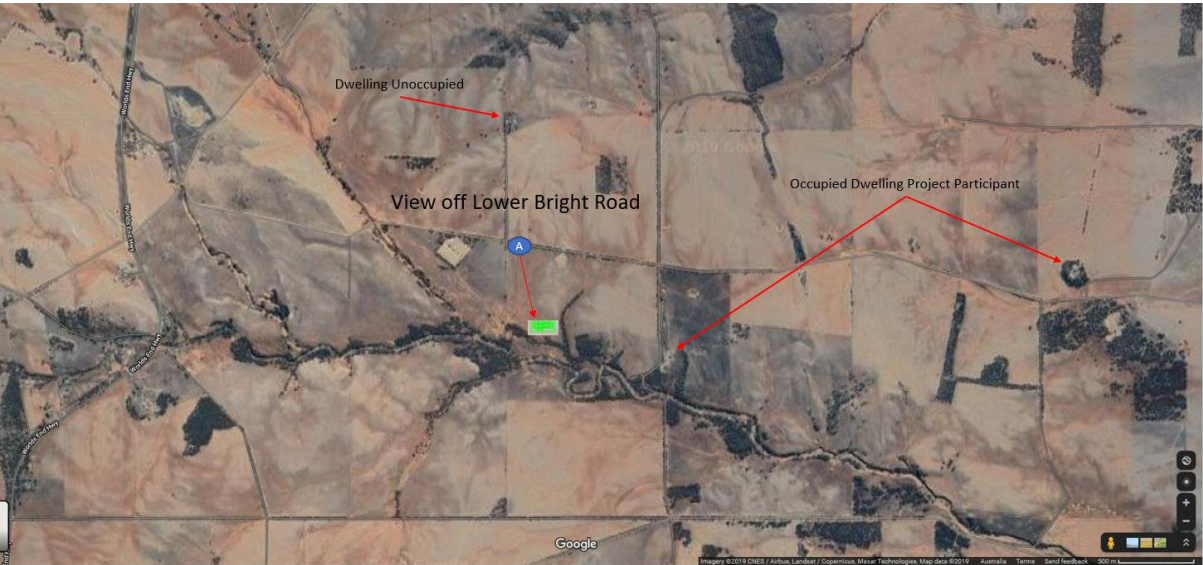


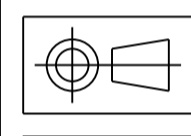
Fig 1.6 Distance to sensitive receptors. Occupants are project participants / supporters. Not visible from the occupied dwellings at 400m and 2000m to the East



-END-

Attachment B Proposal Plans

TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING



150
100
50
0mm



FOR INFORMATION ONLY

NOTES:

1. TEMPORARY STRUCTURE TO BE CUSTOM DESIGNED TO SUIT BYPASS STRINGING ARRANGEMENT.
2. NEWLY DESIGNED TOWER TO BE CONFIRMED DURING DETAIL DESIGN 2305-STR-003A TO BE POSITIONED TO ENSURE THAT THERE IS NO MORE THAN 2° OF DEVIATION FROM THE CURRENT TRANSMISSION LINE ROUTE
3. EXISTING TOWERS 2305-STR-002 AND 2305-STR-004 MAY REQUIRE REINFORCEMENT AND A STRUCTURAL CHECK WILL BE REQUIRED. IN THE WORST CASE SCENARIO NEW STRUCTURES MAY BE REQUIRED.
4. EXISTING PHASE CONDUCTOR 'OLIVE' 54/7/3.5 ACSR/GZ INSTALLED AT F1938/F1945 TO BE TERMINATED AT NEW CUT IN TOWER.
5. NEW PHASE CONDUCTOR 'OLIVE' ACSR/GZ TO BE INSTALLED BETWEEN NEW CUT IN TOWER AND ROBERTSTOWN EAST SUBSTATION GANTRY.
6. FOUR NEW OHEW TO BE INSTALLED BETWEEN CUT IN TOWER AND ROBERTSTOWN EAST SUBSTATION GANTRY.
7. PROPOSED OPGW/COMMS STAGING
 - a) NEW UNDERGROUND FIBRE FROM JUNCTION BOX AT NEW CUT IN TOWER TO EXISTING ROBERTSTOWN GANTRY.
 - b) EXISTING OPGW DNO8027 ABOVE 2305-STR-002 TO BE CUT WITH SUFFICIENT LENGTH TO BE RETERMINATED ON BRACKET IN NEW JUNCTION BOX ON NEW CUT IN TOWER.
 - c) RESTRING AND COMMISSION OPGW FROM ROBERTSTOWN GANTRY TO JUNCTION BOX AT NEW CUT IN TOWER TO PROVIDE SPARE COMMS PATH.

CREATED FROM TEMPLATE; REV SUB TITLE
DRAWING WAS PREVIOUSLY; REV CUT IN DETAIL - 275kV TRANSMISSION LINE CONNECTION - F1938, F1945, F1988

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	30949 FIRST ISSUE - ENET	MAP	JD	CM	

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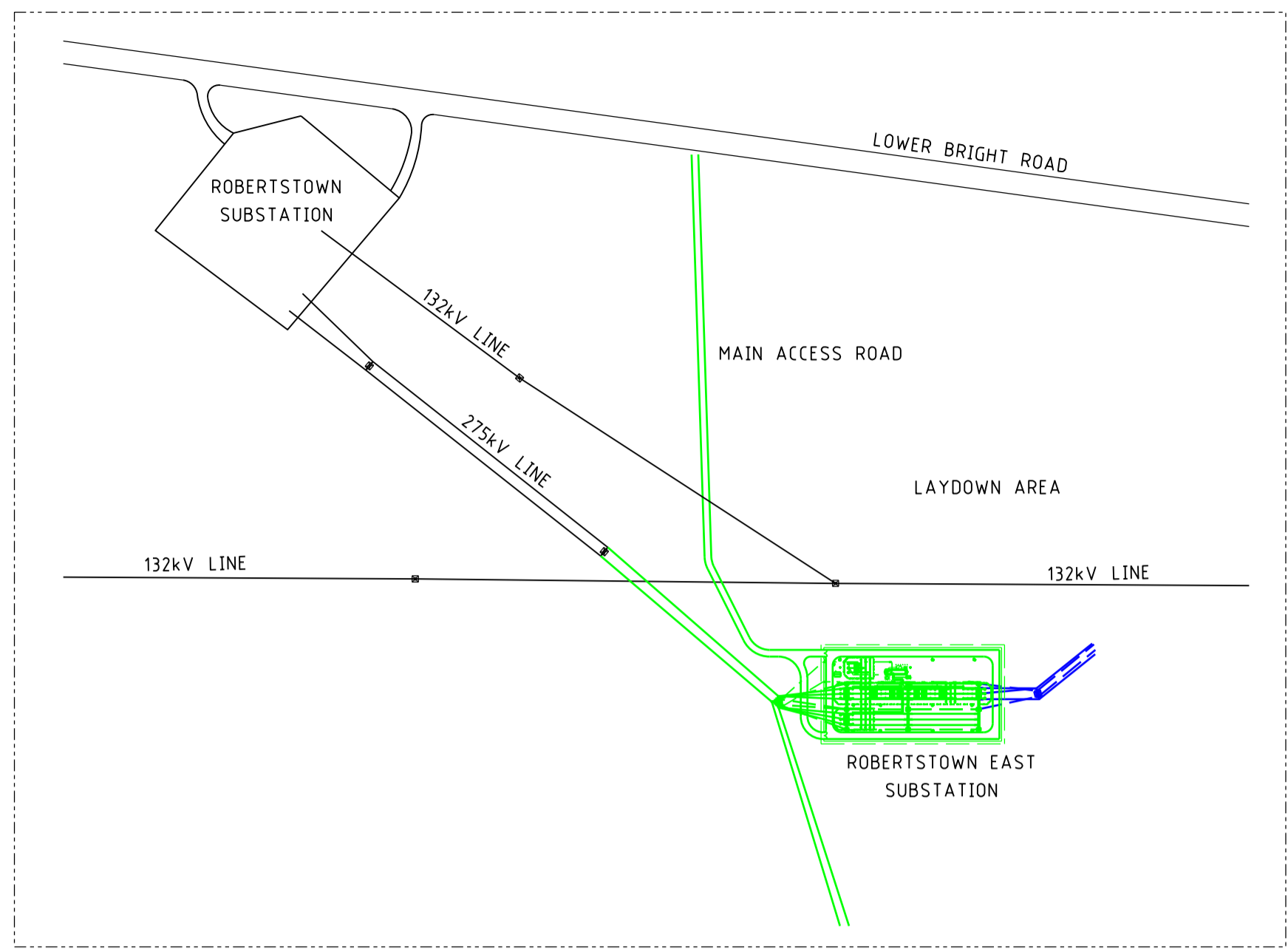
LEGEND	
CURRENT S.O.W.	
FUTURE S.O.W.	
EXISTING ASSETS	
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DECOMMISSIONED	

ELECTRANET
ISSUED FOR INFORMATION
27/02/2020 REVISION A,2
PROJECT #30949
SIGNED _____

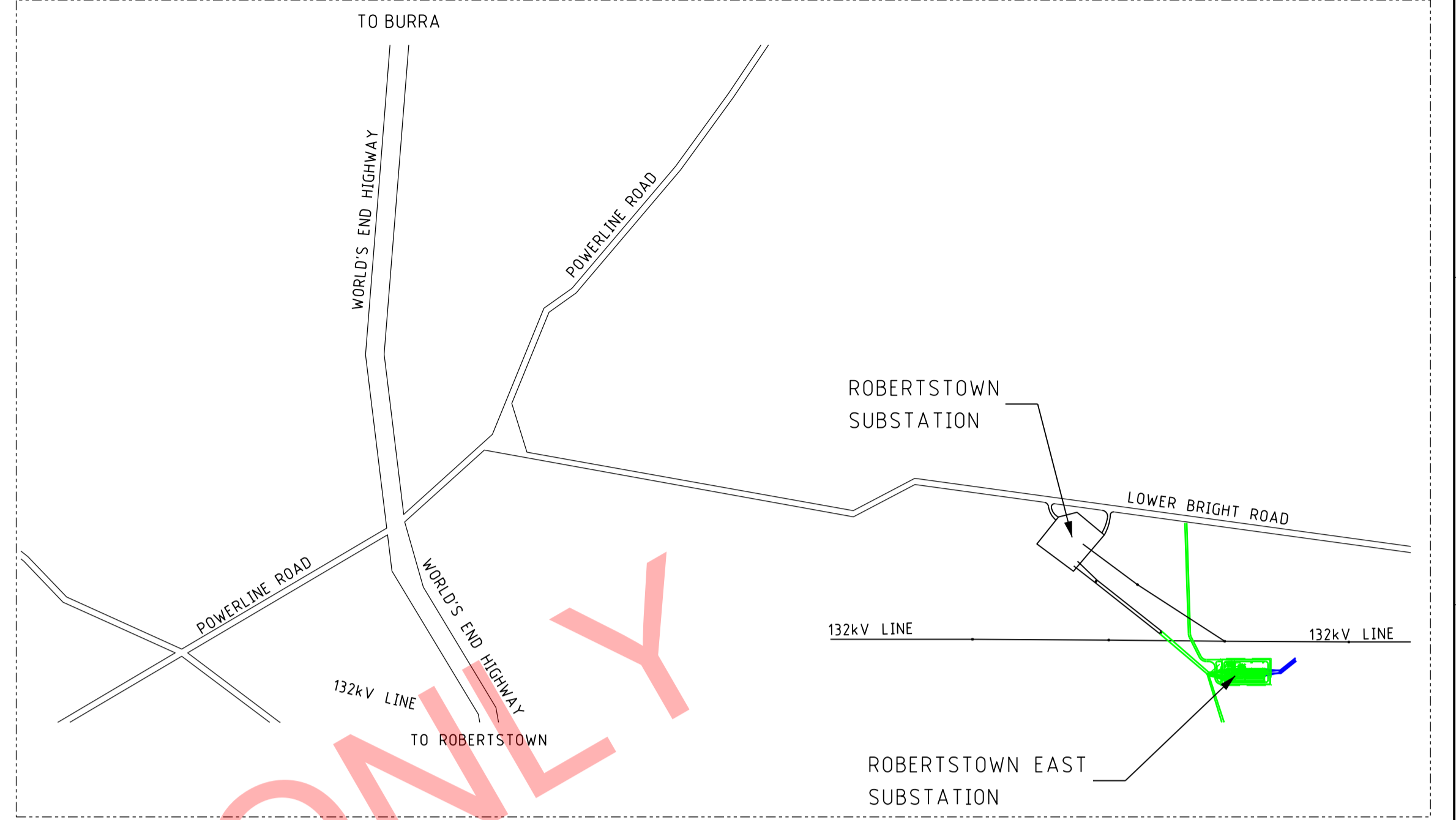
DRN	M. PHILLIPS
CKD	J. DAVIS
INSP	B. MCCARTHY
AUTH	C. MOORE

ElectraNet - electricity transmission	
PRELIMINARY LINE ROUTE ROBERTSTOWN EAST SUBSTATION	
SCALE	1:2000
TITLE	A1 3 02146/500-001
REV	A
DISTB	

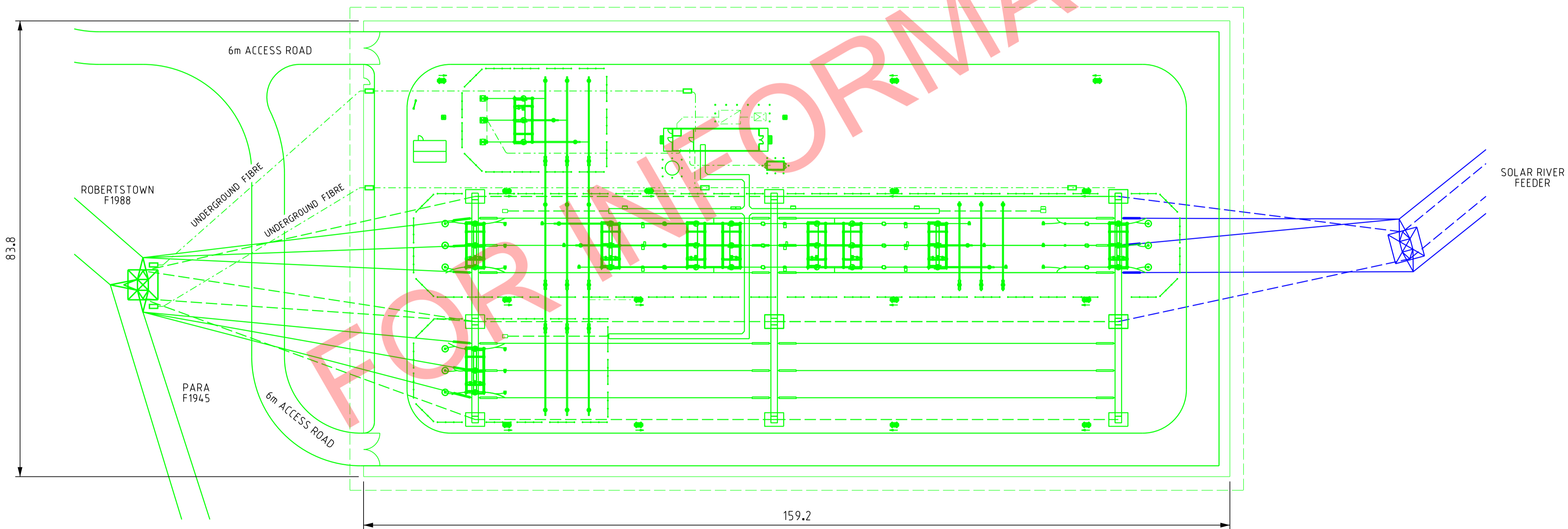
FO PIT



SITE PLAN SCALE 1:5000



OVERALL SITE PLAN SCALE 1:15000



ULTIMATE LAYOUT SCALE 1:500

- NOTES:
1. CULVERTS MAYBE REQUIRED UNDER ACCESS ROADS.THESE WILL BE DETERMINED DURING DETAILED DRAINAGE DESIGN.
 2. CONTRACTOR TO DETERMINE CORRECT NUMBER OF LIGHTNING MASTS AND FLOODLIGHT POLES TO MEET SPECIFIED REQUIREMENTS.
 3. IF 4 OR MORE DIAMETERS ARE REQUIRED THEN RELOCATION OF THE EXISTING 132kV LINE WILL BE REQUIRED.
 4. THE DESIGN OF THE SUBSTATION PLATFORM WILL ENSURE THAT IT IS 300mm ABOVE THE 1/200 YEAR FLOOD LEVEL.

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DRAWING WAS PREVIOUSLY;	REV	

SOLAR RIVER CONNECTION

ElectraNet - electricity transmission

PRELIMINARY LAYOUT ROBERTSTOWN EAST SUBSTATION

LEGEND

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

ELECTRANET
 ISSUED FOR INFORMATION
 05/03/2020 REVISION A,2
 PROJECT #30949
 SIGNED _____

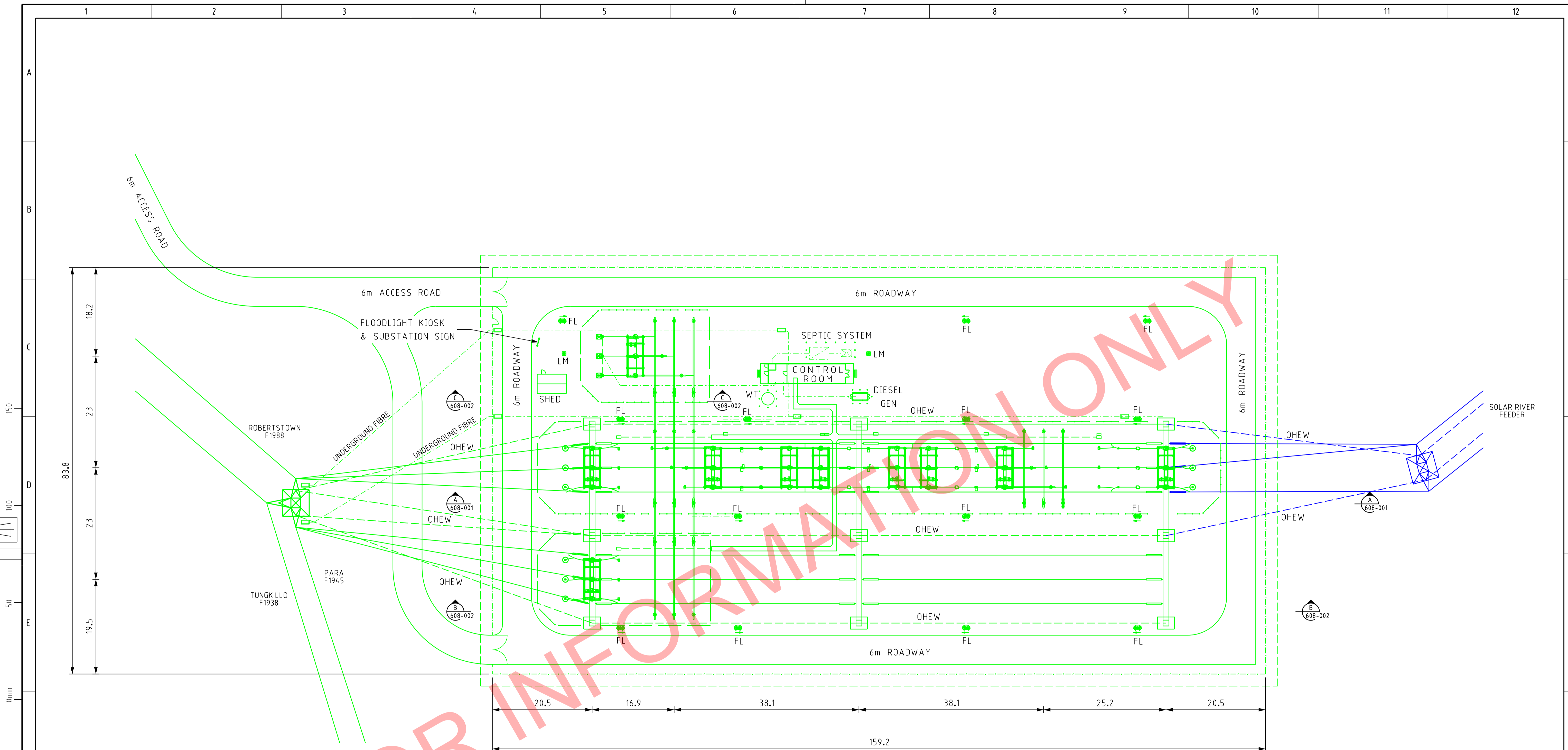
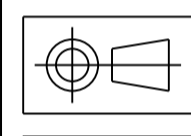
DRN	M. PHILLIPS
CKD	
INSP	
AUTH	C. MOORE

TITLE	A1 30949-SK-S-012		REV	A	DISTB
SCALE	AS SHOWN				

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	30949 FIRST ISSUE - ENET	MAP		CM	

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SYMBOL LEGEND	
	FL FLOOD LIGHTS
	LM LIGHTNING MAST
	WELDMESH FENCE
	WT 45,000L WATER TANK

CREATED FROM TEMPLATE;	REV	SUB TITLE	PLAN
DRAWING WAS PREVIOUSLY;	REV		

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	30949 FIRST ISSUE - ENET	MAP	JS	CM	

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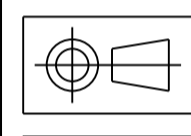
LEGEND	
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FUTURE S.O.W.	
EXISTING ASSETS	
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DECOMMISSIONED	

ELECTRANET
 ISSUED FOR INFORMATION
 27/02/2020 REVISION A,2
 PROJECT #30949
 SIGNED _____

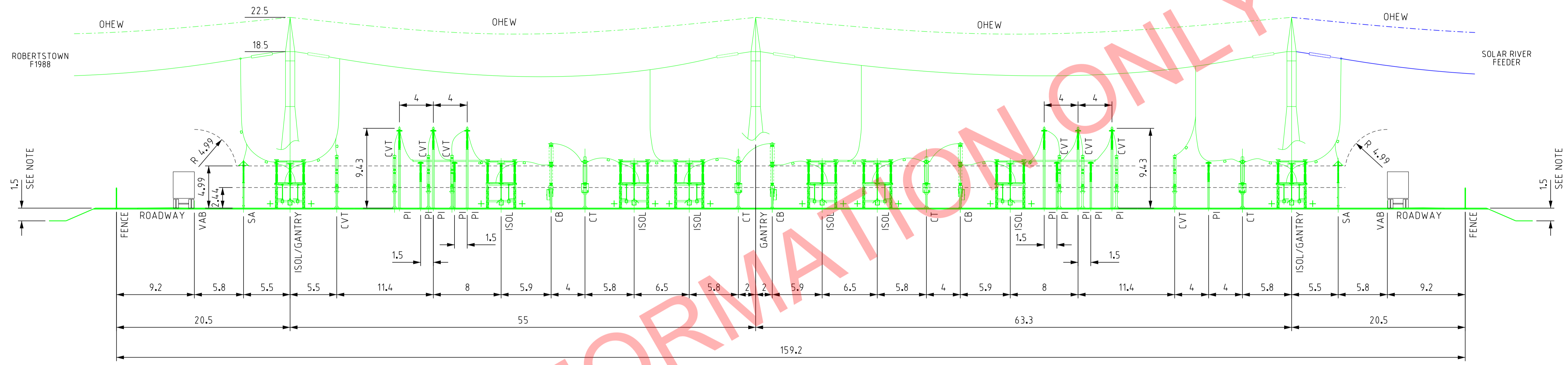
DRN	M. PHILLIPS
CKD	J. SANCHEZ
INSP	G. J. BERGHOLCS
AUTH	C. MOORE

ElectraNet - electricity transmission		TITLE	PRELIMINARY LAYOUT ROBERTSTOWN EAST SUBSTATION	
SCALE 1:400		A1 310 613/605-002		
REV	A	DISTB		

TOLERANCES - UNLESS OTHERWISE SPECIFIED REFER DRAWING



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SECTION A-002

FOR INFORMATION ONLY

NOTE
BENCH HEIGHT OF 1.5m IS INDICATIVE ONLY AND IS SUBJECT TO DETAIL DESIGN.

CREATED FROM TEMPLATE;	REV	SUB TITLE
DRAWING WAS PREVIOUSLY;	REV	

SECTION A-A

REV	DESCRIPTION	RVD	CKD	APD	DATE
A	30949 FIRST ISSUE - ENET	MAP	JS	CM	

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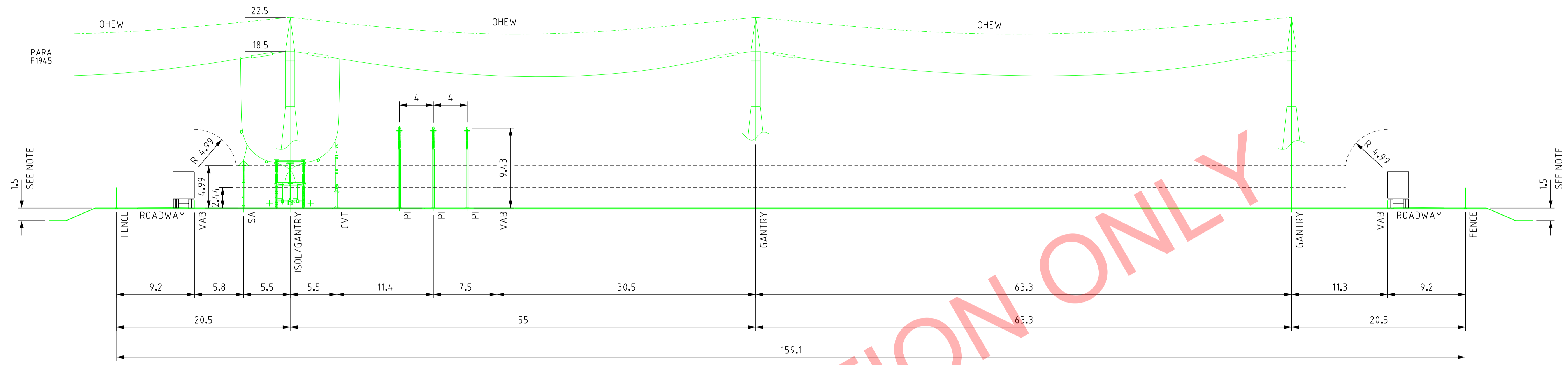
LEGEND	
CURRENT S.O.W.	
FUTURE S.O.W.	
EXISTING ASSETS	
TNU ASSETS	

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05/03/2020 REVISION A,2
PROJECT #30949
SIGNED _____

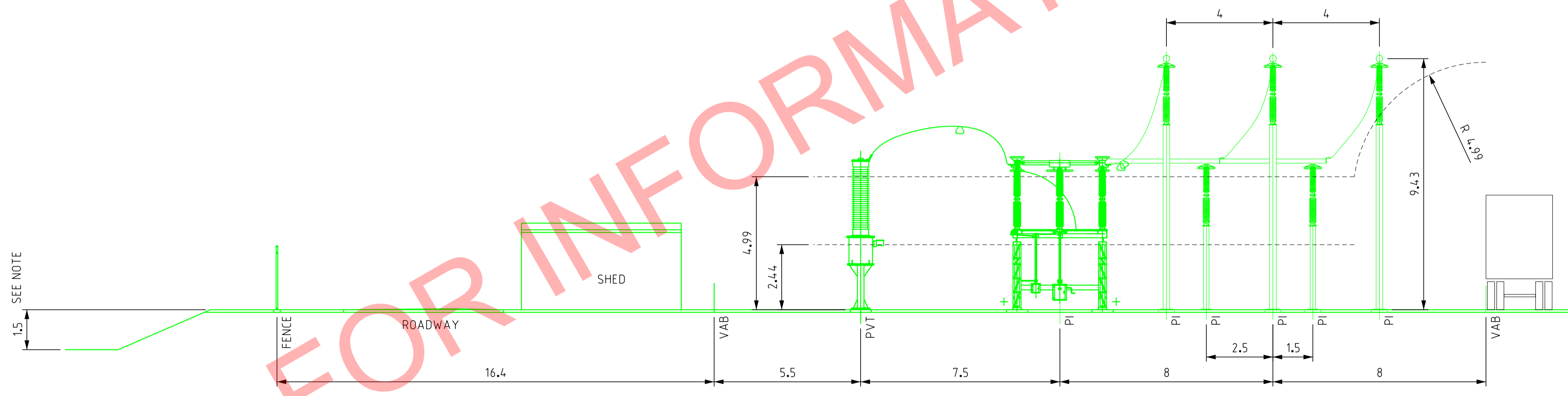
DRN	M. PHILLIPS
CKD	J. SANCHEZ
INSP	G. J. BERGHOLCS
AUTH	C. MOORE

ElectraNet - electricity transmission	
PRELIMINARY ELEVATIONS ROBERTSTOWN EAST SUBSTATION	
TITLE	
SCALE	1 : 250
A1	310 613/608-001
REV	A
DISTB	

TOLERANCES - UNLESS OTHERWISE SPECIFIED REFER DRAWING



SECTION B SCALE 1:250 605-002



SECTION C SCALE 1:100 605-002

NOTE BENCH HEIGHT OF 15m IS INDICATIVE ONLY AND IS SUBJECT TO DETAIL DESIGN.

CREATED FROM TEMPLATE;	REV	SUB TITLE
DRAWING WAS PREVIOUSLY;	REV	

SECTIONS B-B & C-C

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	30949 FIRST ISSUE - ENET	MAP	JS	CM	

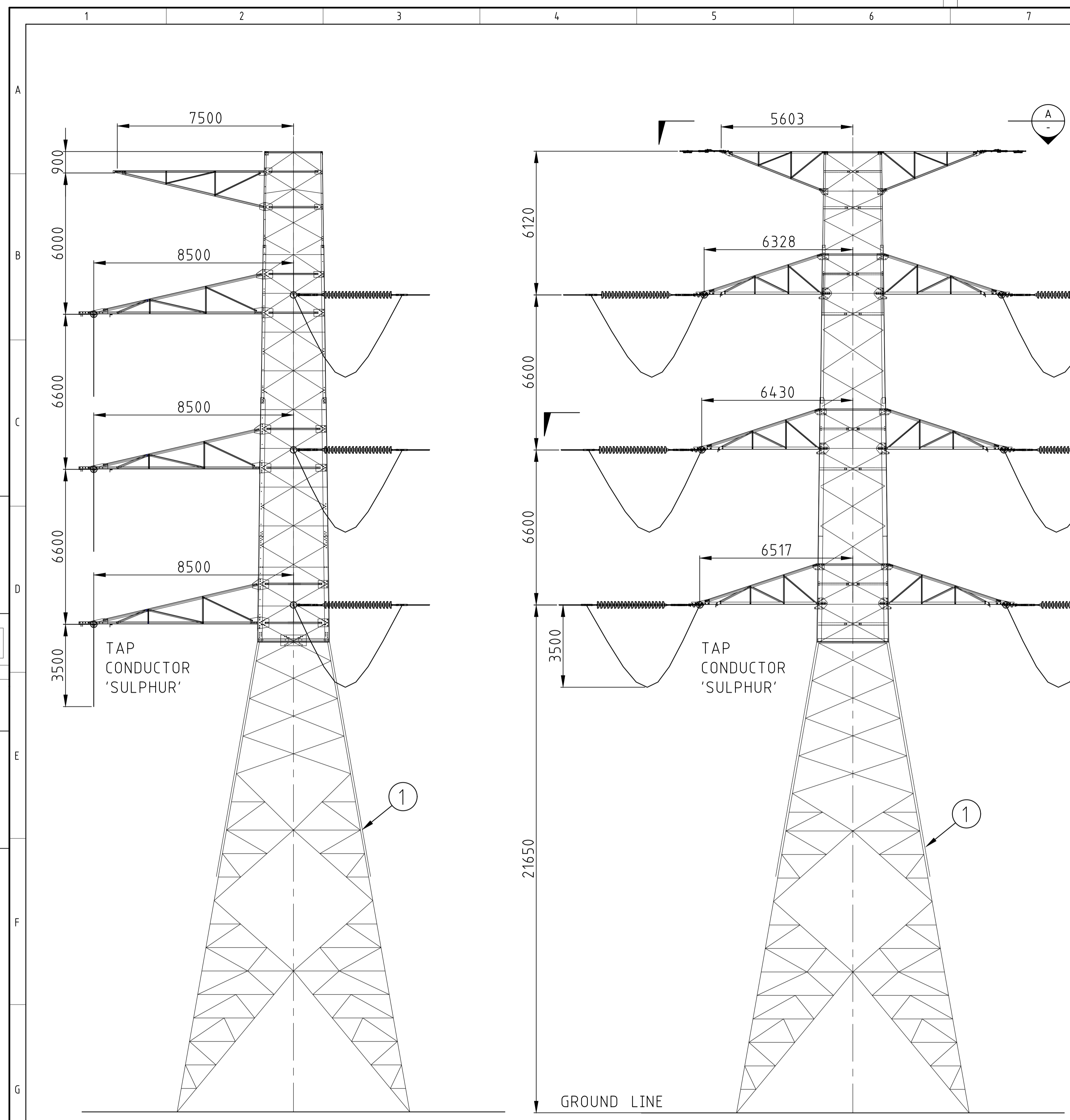
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LEGEND	
CURRENT S.O.W.	
FUTURE S.O.W.	
EXISTING ASSETS	
TNU ASSETS	

ELECTRANET
ISSUED FOR INFORMATION
05/03/2020 REVISION A.2
PROJECT #30949
SIGNED _____

DRN	M. PHILLIPS
CKD	J. SANCHEZ
INSP	G. J. BERGHOLCS
AUTH	C. MOORE

ElectraNet - electricity transmission	
PRELIMINARY ELEVATIONS ROBERTSTOWN EAST SUBSTATION	
SCALE	AS SHOWN
TITLE	A1 310 613/608-002
REV	A
DISTB	



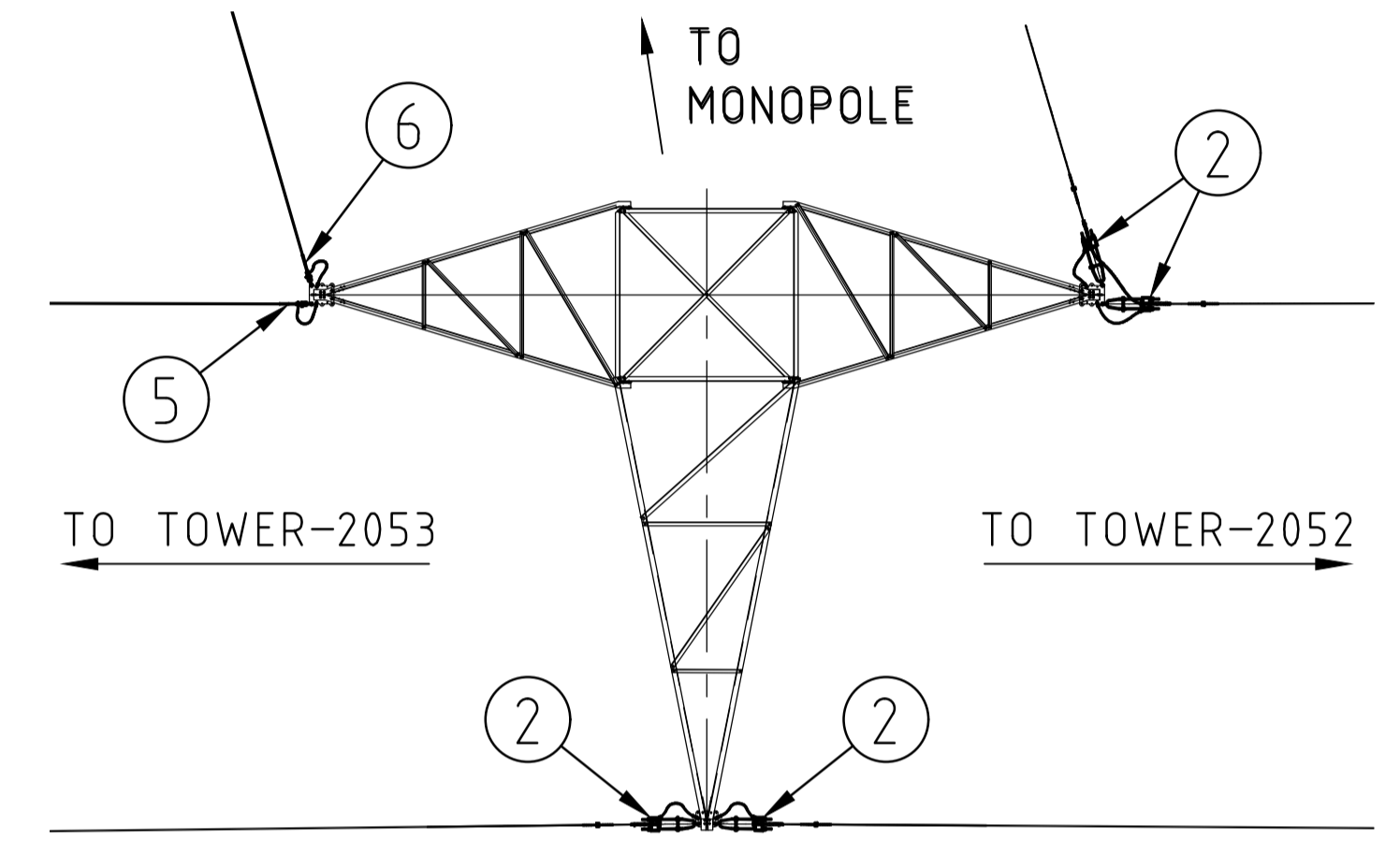
TRANSVERSE ELEVATION

LONGITUDINAL ELEVATION

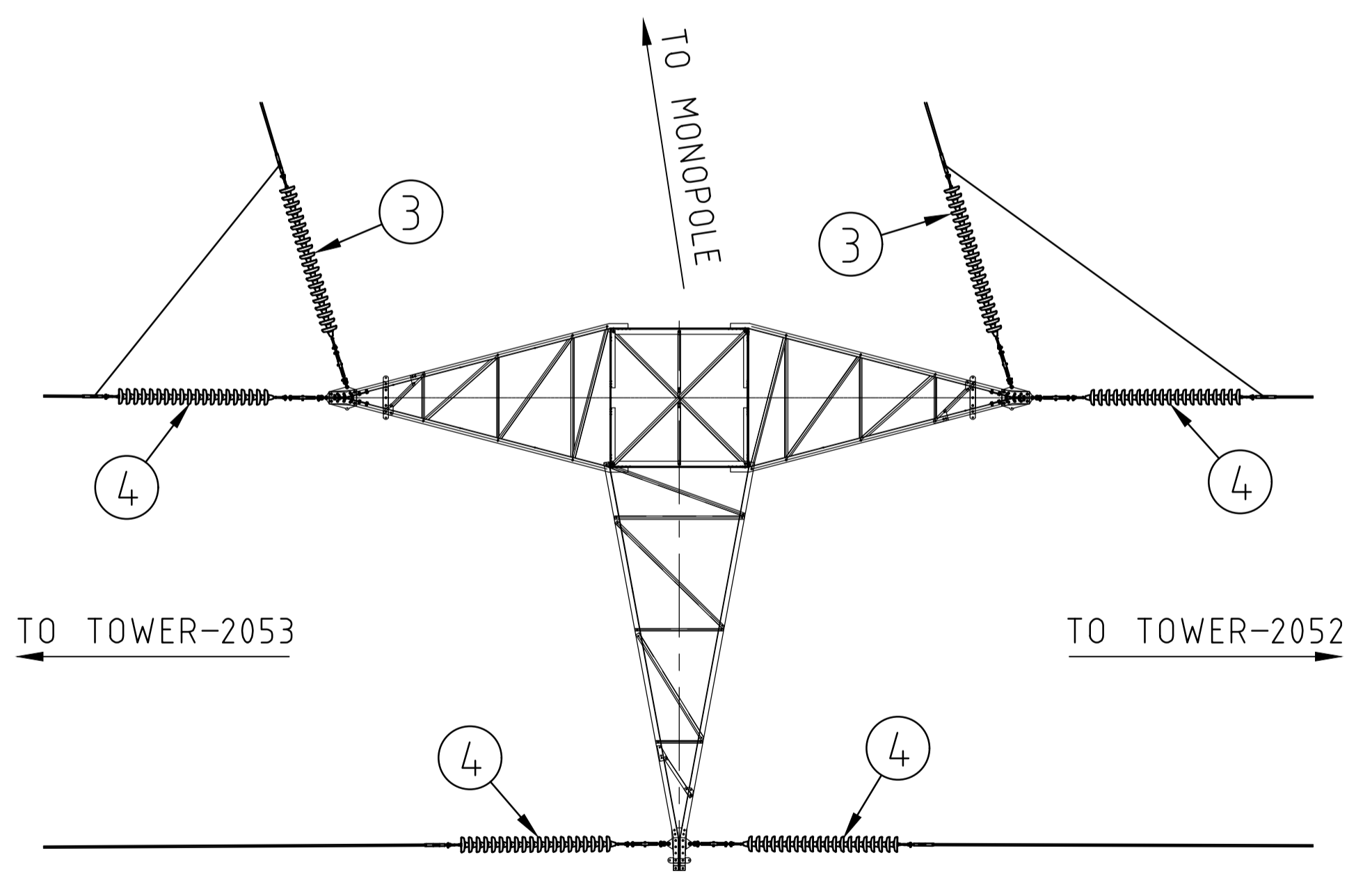
ITEM	DESCRIPTION	QTY	REFERENCE / COMMENT
1	STEEL LATTICE TOWER, DT2/28	1	3 01950/200-002
2	STRAIN OPGW ARRANGEMENT	4	3 02072/560-007
3	STRAIN INSULATOR ARRANGEMENT, 'SULPHUR'	6	3 02072/560-002
4	STRAIN INSULATOR ARRANGEMENT, 'OLIVE'	12	3 02072/560-001
5	STRAIN EW ARRANGEMENT, 19/0.08 SC/GZ	1	3 02072/560-006
6	STRAIN EW ARRANGEMENT, 'GRAPE'	1	3 02072/560-010

REFERENCES:

- 3 02072/580-001 - TOWER ELECTRICAL CLEARANCE;
- 3 02072/570-001 - TOWER MAINTENANCE CLEARANCE.

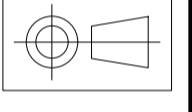


SECTION 'A'
ROTATED 90°



SECTION 'B'
ROTATED 90°

TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING:



150

100

50

0mm

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	ISSUED FOR INFORMATION - EC30873 (PSC)	NEB	IP	AS	08/16

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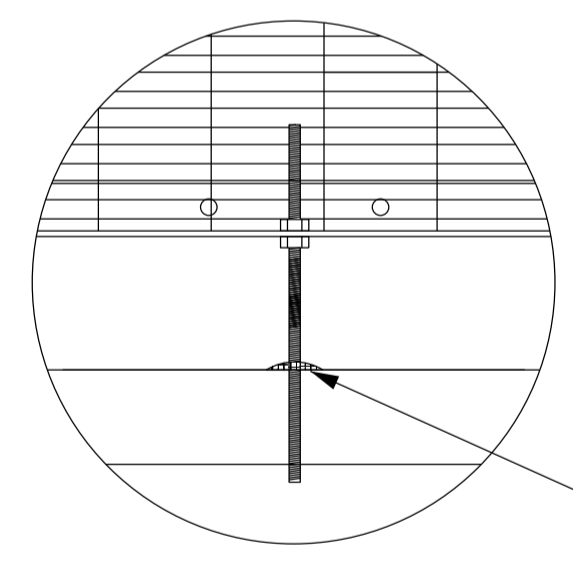
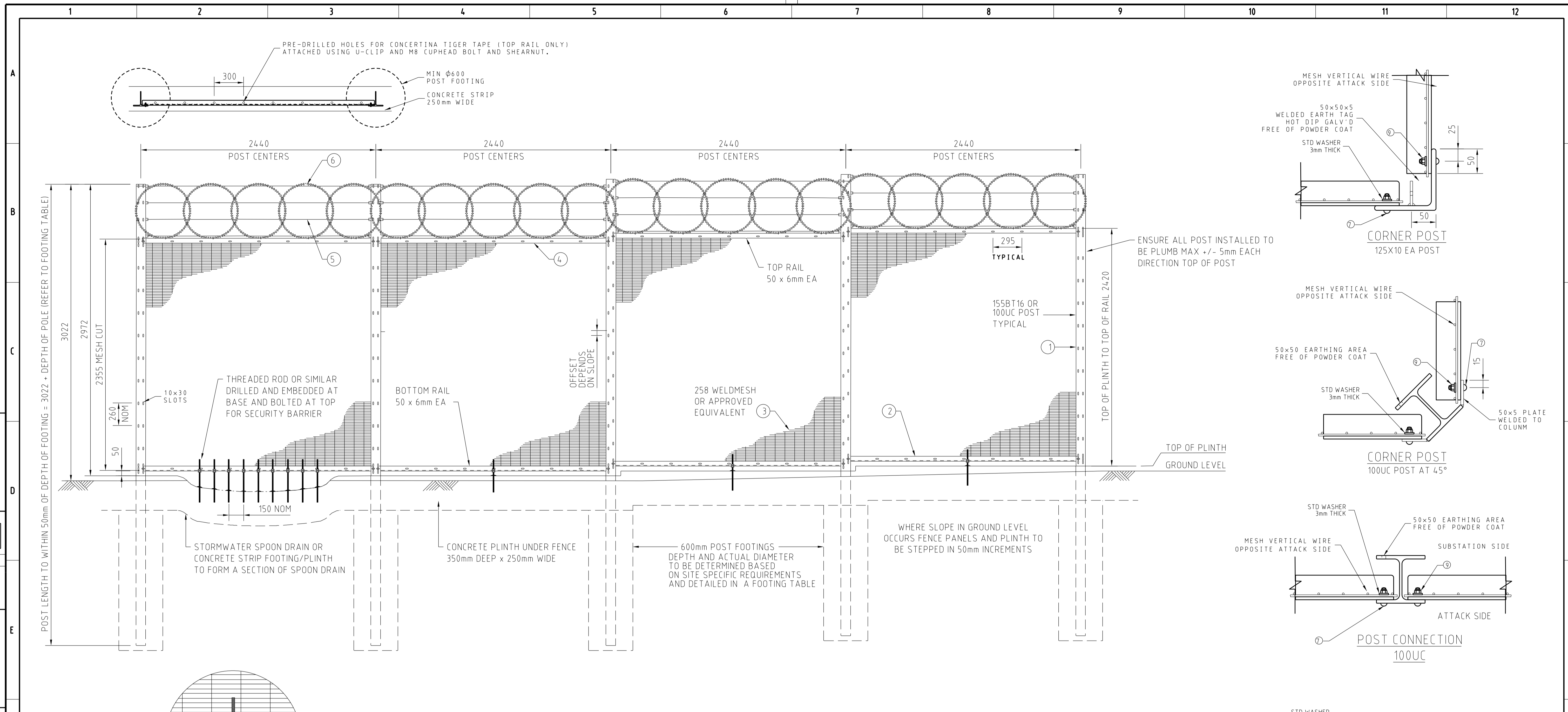


ElectraNet
ISSUED FOR INFORMATION
08/2016 - REV A2
PROJECT # EC30873
SIGNED AHSAN SIDDIQUE

CREATED FROM TEMPLATE;	REV	SUB TITLE	F1935/F1936/F1965(FUTURE) - 275kV TRANSMISSION LINE CUT-IN TOWER GENERAL ARRANGEMENT
DRAWING WAS PREVIOUSLY;	REV		

DRN	N. BUDNIKOVA (PSC)	08/16	ElectraNet - electricity transmission	
CKD	P. MUNOZ (PSC)	08/16	PRELIMINARY STRUCTURE GENERAL ARRANGEMENT CONNECTION TO CORRABERRA HILL SUBSTATION	
INSP	I. PILLAY (PSC)	08/16		
AUTH	A. SIDDIQUE (PSC)	08/16	SCALE	1:100
			A1	3 02072/510-001
			REV	A
			DISTB	

TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING



- REFER SDM122 FOR SPECIFICATIONS
- FOR ALL FASTENERS, CONNECTING PANELS TO RAILS AND POSTS THE SHEAR NUTS SHALL BE WELDED TO BOLT THREADS FOR AT LEAST A QUARTER OF THE BOLTS CIRCUMFERENCE
- SECURITY SIGNS TO BE PLACED AS PER 510 STD/790-041
- STORMWATER EXITS TO BE CO-ORDINATED WITH SITE SPECIFIC CIVIL EARTHWORKS DRAWINGS
- STANDARD FINISH GALVANISED IN ACCORDANCE WITH AS 4680
- FOR EARTHING DETAILS PLEASE REFER TO DRAWING 510 STD/790-046 FOR GUIDING PRINCIPLES FAILURE TO INTEGRATE FENCE EARTHING DESIGN WITH SUBSTATION EARTH MAY CREATE A HAZARDOUS SITUATION
- IN THE FINAL DESIGN FENCE PANELS OF SHORTER THAN 2395mm CAN BE USED WHERE NECESSARY TO SUIT THE ACTUAL PERIMETER AND TO STAY CLEAR OF UNDERGROUND SERVICES. ALL UNDERGROUND SERVICES TO BE LOCATED AND IDENTIFIED PRIOR TO FOOTING CONSTRUCTION
- ALL SHEAR NUTS SHALL BE TIGHTENED SUFFICIENTLY SO THAT ANTI-TAMPER FEATURES ARE ENABLED
- TOP OF PLINTHS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LEVELS SPECIFIED ON CIVIL EARTHWORKS DRAWINGS. WHERE CIVIL DRAWINGS AND/OR SURVEY INFORMATION IS NOT AVAILABLE THE FENCE PLINTH DESIGN SHALL BE DETERMINED WITH THE ELECTRANET REPRESENTATIVE IN ACCORDANCE WITH SDM122
- ALL FENCE COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING STANDARDS; AS/NZ 4534:2006 ZINC AND ZINC/ALUMINIUM ALLOY COATINGS ON STEEL WIRE. AS 2423:2002 COATED STEEL WIRE FENCING PRODUCTS FOR TERRESTRIAL, AQUATIC AND GENERAL USE. BS EN 10223-4:1998 STEEL AND WIRE PRODUCTS FOR FENCING. STEEL WIRE WELDED MESH. AS/NZS 4680:2006 HOT DIP GALVANISED (ZINC) COATINGS OF FABRICATED FERROUS ARTICLES. BS 1722-12:2006 FENCES. SPECIFICATION FOR STEEL PALISADE FENCES. AS/NZS 4506-2005 METAL FINISHING THERMOSET POWDER COATINGS
- WHERE A PORTION OF A POWDER COATED RAIL, WELDMESH OR POST IS TO BE USED FOR EARTHING THIS ARE MUST BE MASKED DURING POWDER COATING.

ITEM	DESCRIPTION
9	M8 SHEARNUT
8	M8 WASHER
7	M8 TAMPER PROOF BOLT
6	Ø550 TIGER TAPE LOOP
5	BARBED WIRE
4	50 x 50 x 6 ANGLE TOP RAIL OR BULLDOG TOP (FOR RADIO SITE)
3	258 MESH 50mm x 13mm CENTRES Ø4 WIRE - APPROX 2355x2404
2	50 x 50 x 6 ANGLE - BOTTOM RAIL
1	155BT16 CUT FROM 310UB OR 100UC POST (DRILLED TO MANUFACTURERS SPECS)

MATERIALS LIST

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	FIRST ISSUE ENET 11247	DCC	MM	HMcC	11/14

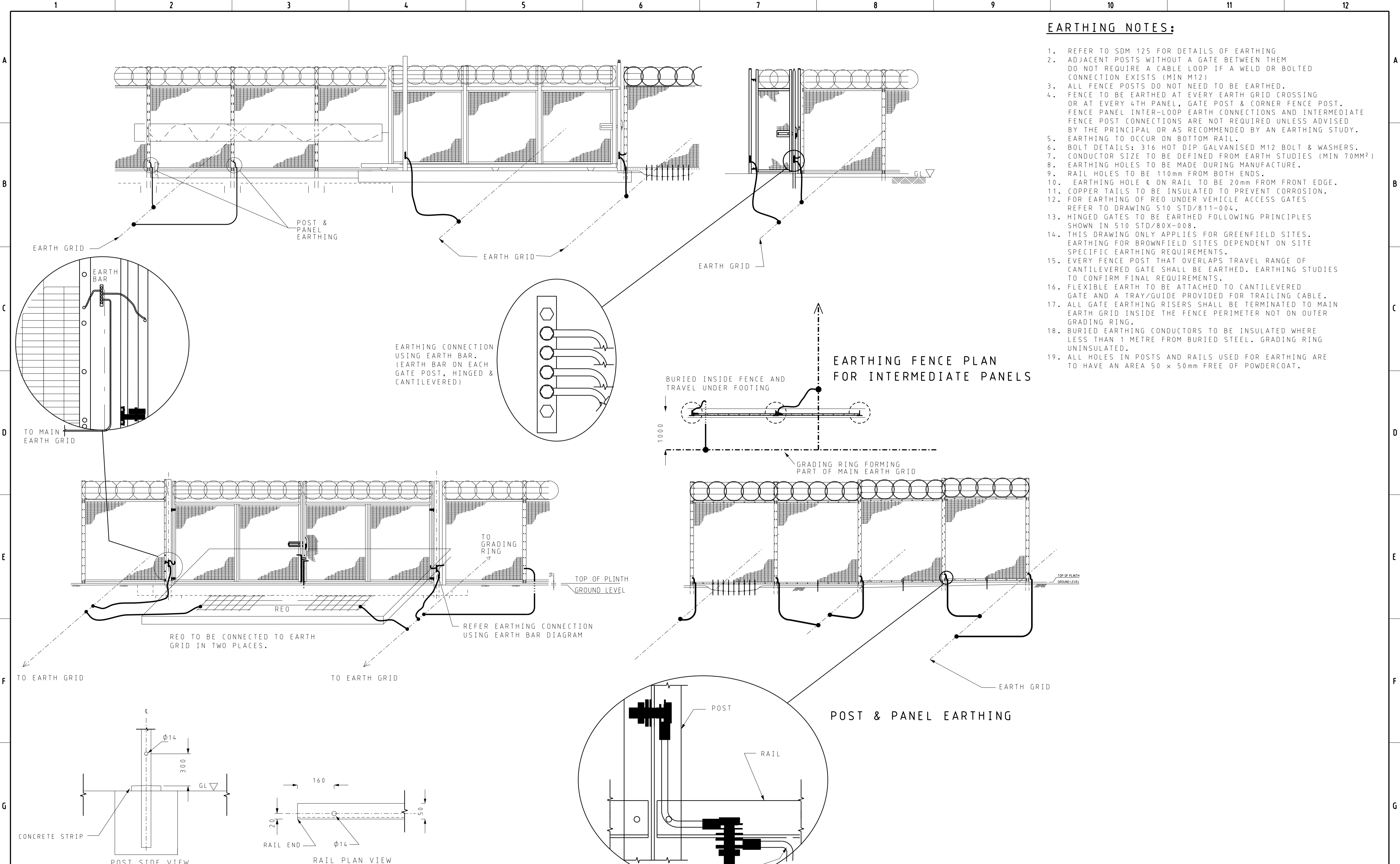
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ElectraNet
FINAL ISSUE AS BUILT
20/11/2014 & REV A
PROJECT # 11247
SIGNED: G. MATISKE

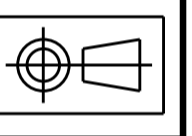
CREATED FROM TEMPLATE;	REV	SUB TITLE	HIGH SECURITY WELDMESH FENCE - FENCE PANELS
DRAWING WAS PREVIOUSLY;	REV		
DRN	D. CALDWELL	06/14	ElectraNet - electricity transmission
CKD	M. MUKUNDU	11/14	
INSP	G. MATISKE	11/14	
AUTH	H. McCARTER	11/14	
TITLE			EARTHWORK, PAVING & FENCES
SCALE			1:20
REV			A1 510 STD/790-040
DISTB			A

EARTHING NOTES:

- REFER TO SDM 125 FOR DETAILS OF EARTHING
- ADJACENT POSTS WITHOUT A GATE BETWEEN THEM DO NOT REQUIRE A CABLE LOOP IF A WELD OR BOLTED CONNECTION EXISTS (MIN M12)
- ALL FENCE POSTS DO NOT NEED TO BE EARTHED.
- FENCE TO BE EARTHED AT EVERY EARTH GRID CROSSING OR AT EVERY 4TH PANEL, GATE POST & CORNER FENCE POST. FENCE PANEL INTER-LOOP EARTH CONNECTIONS AND INTERMEDIATE FENCE POST CONNECTIONS ARE NOT REQUIRED UNLESS ADVISED BY THE PRINCIPAL OR AS RECOMMENDED BY AN EARTHING STUDY.
- EARTHING TO OCCUR ON BOTTOM RAIL.
- BOLT DETAILS: 316 HOT DIP GALVANISED M12 BOLT & WASHERS.
- CONDUCTOR SIZE TO BE DEFINED FROM EARTH STUDIES (MIN 70MM²)
- EARTHING HOLES TO BE MADE DURING MANUFACTURE.
- RAIL HOLES TO BE 110mm FROM BOTH ENDS.
- EARTHING HOLE ϵ ON RAIL TO BE 20mm FROM FRONT EDGE.
- COPPER TAILS TO BE INSULATED TO PREVENT CORROSION.
- FOR EARTHING OF REO UNDER VEHICLE ACCESS GATES REFER TO DRAWING 510 STD/811-004.
- HINGED GATES TO BE EARTHED FOLLOWING PRINCIPLES SHOWN IN 510 STD/80X-008.
- THIS DRAWING ONLY APPLIES FOR GREENFIELD SITES. EARTHING FOR BROWNFIELD SITES DEPENDENT ON SITE SPECIFIC EARTHING REQUIREMENTS.
- EVERY FENCE POST THAT OVERLAPS TRAVEL RANGE OF CANTILEVERED GATE SHALL BE EARTHED. EARTHING STUDIES TO CONFIRM FINAL REQUIREMENTS.
- FLEXIBLE EARTH TO BE ATTACHED TO CANTILEVERED GATE AND A TRAY/GUIDE PROVIDED FOR TRAILING CABLE.
- ALL GATE EARTHING RISERS SHALL BE TERMINATED TO MAIN EARTH GRID INSIDE THE FENCE PERIMETER NOT ON OUTER GRADING RING.
- BURIED EARTHING CONDUCTORS TO BE INSULATED WHERE LESS THAN 1 METRE FROM BURIED STEEL. GRADING RING UNINSULATED.
- ALL HOLES IN POSTS AND RAILS USED FOR EARTHING ARE TO HAVE AN AREA 50 x 50mm FREE OF POWDERCOAT.



TOLERANCES UNLESS OTHERWISE SPECIFIED REFER DRAWING



POST AND RAIL EARTHING HOLES (PRE-DRILLED)

REV	DETAILS OF REVISION	RVD	CKD	APD	DATE
A	FIRST ISSUE ENET 11247	DCC	MM	HMCC	11/14

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ElectraNet
FINAL ISSUE AS BUILT
 20/11/2014 & Rev A
 PROJECT # 11247
 SIGNED G.MATISKE

CREATED FROM TEMPLATE;
DRAWING WAS PREVIOUSLY;

DRN	D. CALDWELL	11/14
CKD	M. MUKUNDU	11/14
INSP	G. MATISKE	11/14
AUTH	H. McCARTER	11/14

HIGH SECURITY WELDMESH FENCE - GREENFIELD SITE EARTHING PRINCIPLES

ElectraNet - electricity transmission	
EARTHWORK, PAVING & FENCES SUBSTATION STANDARDS	
SCALE	NTS
A1 510 STD/790-046	REV A

Attachment C

Further Ecology Advice

Hateley, Tom

Subject: FW: SRP

From: Samara Schulz <SSchulz@kleinfelder.com>
Sent: Monday, 2 March 2020 12:53 PM
To: Piggin, Andrew <andrew.piggin@aecom.com>
Subject: RE: SRP

Hi Andrew,

See comments on changed design below.

The Solar River Project, are proposing to modify the location of powerlines and the Substation at the Robertstown end of the powerline easement. Kleinfelder have reviewed the ElectraNet Sketch for Information (Dated 13/09/2019) Titled: Concept Preliminary Layout Robertstown – Solar River (30949-SK-S-011, REV A). Based on the proposed design layout, the impacts of the proposal should not increase from the previous design as it appears all infrastructure is located within areas of Exotic Grasslands and Cropping Lands.

To ensure the proposed design is in accordance with the previous impact assessment:

- All areas of infrastructure including, the Substation, pole locations and access tracks, are to be placed with Exotic Grasslands and Cropping Lands.
- Pole SRP-C13 and associated pad, is to be placed at a distance from the drainage line so to no impact on any native vegetation.
- There should be no impact on trees within the draining line between pole SRP-C13 and SRP-C12.

Kind Regards

Samara Schulz

From: Piggin, Andrew <andrew.piggin@aecom.com>
Sent: Friday, 28 February 2020 11:39 AM
To: Samara Schulz <SSchulz@kleinfelder.com>
Subject: RE: SRP

External Email.

Samara

As discussed

Andrew Piggin
Associate Director
D +61 8 7131 0328 M +61 417 834 996
andrew.piggin@aecom.com

AECOM
Level 28, 91 King William Street, Adelaide, SA 5000
T +61 8 7131 0252 F +61 8 7223 5499
aecom.com

Imagine it. Delivered.

Attachment D NNAC Response



Dear Jason and Andrew,

Please note that the Ngadjuri Nation Aboriginal Corporation (NNAC) do not have any problem with you building the proposed platform in the centre of the south-eastern area providing that it will not entail any major ground disturbance, and primarily consist of materials being brought in.

Kind Regards,

A handwritten signature in black ink, appearing to read "Quenten Agius". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Quenten Agius

Ngadjuri Nation Aboriginal Corporation
(NNAC) Chairperson

Hateley, Tom

From: Jason May <jason@maybros.net>
Sent: Sunday, 1 March 2020 11:55 AM
To: Kylie Lower BHC
Cc: Quenten Agius; Piggin, Andrew; Hateley, Tom
Subject: Fwd: Platform
Attachments: platform.pdf

Hi Kylie

Thank you for the attached. Solar River will comply with the requirements in the letter.

----- Forwarded message -----

From: Kylie Lower <kylielower@blackwoodheritage.com>
Date: Sun, Mar 1, 2020 at 7:47 AM
Subject: Platform
To: Jason May <jason@maybros.net>
Cc: <andrew.piggin@aecom.com>, Quenten Agius <quenten.agius@aboriginalculturaltourssa.com>

--

Regards
Jason May
Managing Director
Solar River Project
M: 0499 365 086