

From: "Angela Cobcroft" <angela.cobcroft@energyq.com.au>
Sent: Mon, 17 Feb 2025 10:12:43 +1000
To: "Info" <info@msc.qld.gov.au>
Cc: "Matthew Crow" <matthew.crow@ergon.com.au>; "Scott Bathurst" <Scott.Bathurst@energyq.com.au>
Subject: DA Lodgement - Ergon Energy substation Expansion - OPW for Earthworks
Attachments: Cover Ltr - OPW DA for Ergon Turkinjie Substation Expansion.pdf, Attachment 1 - DA Form 1.docx, Attachment 2 - State DAMS Map.pdf, Attachment 3 – Ergon Pre-referral response.pdf, Attachment 4 – Response to Works, Services and Infrastructure Code.docx, Attachment 6 – Civil Drawings.pdf, Attachment 7 – QLeave Receipt.pdf, Attachment 5 – SDAP State Code 1 Response.docx
Categories: Add to ECM

Good morning,

Please find attached a Development Application for lodgement over land at Lot 84 on SP332272 Kennedy Highway, Mareeba.

Can you please issue a tax invoice for the applicable DA fee and I will arrange prompt payment.

Kind regards,

Angela Cobcroft

Town Planning Manager

Property & Security Group | People, Property & Safety

Hours: 7am - 3.30pm, Mon – Wed & Fri



Energy Queensland

Level 1, 26 Reddacliff Street, Newstead QLD 4006

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17 February 2025

Mareeba Shire Council

PO Box 154

Mareeba

Via email: info@msc.qld.gov.au

Dear Sir/Madam,

**Development Application for Operational Works (Earthworks exceeding 50m³)
Lot 84 on SP332272 Kennedy Highway, Mareeba**

I write to you with regards to operational works proposed over land at Lot 84 on SP332272 Kennedy Highway, Mareeba. This lot adjoins the existing joint Ergon Energy/Powerlink Turkinjie Substation located on lots 884 on NR4531 and 1 on RP736603. The proposed development works are for earthworks for the expansion of this substation onto Lot 84. Lot 84 was recently purchased by Ergon following a Road Closure application to the Department of Transport and Main Roads.

We note that a Material Change of Use application was not required for the substation expansion as Council confirmed the new land will be considered to be within the Community Facilities zone and it is not within 100m of a residential house, therefore it meets the requirements for Accepted Development.

Therefore, required by the Mareeba Shire Council Planning Scheme 2016, we hereby lodge a Code Assessable Development Application for Operational Works for Earthworks exceeding a volume of 50m³. This application includes ancillary stormwater management works and driveway access works.

In support of our application please find enclosed:

- Attachment 1 - DA Form 1
- Attachment 2 – State DAMS Map
- Attachment 3 – Ergon Pre-referral response
- Attachment 4 – Response to Works, Services and Infrastructure Code
- Attachment 5 – SDAP State Code 1 Response
- Attachment 6 – Civil Drawings
- Attachment 7 – QLeave Receipt

Should you require any further information on the above matter, please contact Angela Cobcroft on 0447 671 554 or email angela.cobcroft@energyq.com.au.

Yours faithfully,

A handwritten signature in dark ink, appearing to read 'A Cobcroft', written in a cursive style.

Angela Cobcroft
Town Planning Manager

DA Form 1 – Development application details

Approved form (version 1.6 effective 2 August 2024) made under section 282 of the Planning Act 2016.

This form **must** be used to make a development application **involving code assessment or impact assessment**, except when applying for development involving only building work.

For a development application involving **building work only**, use *DA Form 2 – Building work details*.

For a development application involving **building work associated with any other type of assessable development (i.e. material change of use, operational work or reconfiguring a lot)**, use this form (*DA Form 1*) and parts 4 to 6 of *DA Form 2 – Building work details*.

Unless stated otherwise, all parts of this form **must** be completed in full and all required supporting information **must** accompany the development application.

One or more additional pages may be attached as a schedule to this development application if there is insufficient space on the form to include all the necessary information.

This form and any other form relevant to the development application must be used to make a development application relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994*, and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008*. For the purpose of assessing a development application relating to strategic port land and Brisbane core port land, any reference to a planning scheme is taken to mean a land use plan for the strategic port land, Brisbane port land use plan for Brisbane core port land, or a land use plan for airport land.

Note: All terms used in this form have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules).

PART 1 – APPLICANT DETAILS

1) Applicant details	
Applicant name(s) (individual or company full name)	Ergon Energy Corporation Limited
Contact name (only applicable for companies)	Angela Cobcroft
Postal address (P.O. Box or street address)	26 Reddacliff Street
Suburb	Newstead
State	Queensland
Postcode	4006
Country	AUS
Contact number	0447 671 554
Email address (non-mandatory)	angela.cobcroft@energyq.com.au
Mobile number (non-mandatory)	
Fax number (non-mandatory)	
Applicant's reference number(s) (if applicable)	
1.1) Home-based business	
<input type="checkbox"/> Personal details to remain private in accordance with section 264(6) of <i>Planning Act 2016</i>	

2) Owner's consent	
2.1) Is written consent of the owner required for this development application?	
<input type="checkbox"/> Yes – the written consent of the owner(s) is attached to this development application	
<input checked="" type="checkbox"/> No – proceed to 3)	

PART 2 – LOCATION DETAILS

3) Location of the premises (complete 3.1) or 3.2), and 3.3) as applicable)

Note: Provide details below and attach a site plan for any or all premises part of the development application. For further information, see [DA Forms Guide: Relevant plans](#).

3.1) Street address and lot on plan

- ☐ Street address **AND** lot on plan (all lots must be listed), **or**
☐ Street address **AND** lot on plan for an adjoining or adjacent property of the premises (appropriate for development in water but adjoining or adjacent to land e.g. jetty, pontoon. All lots must be listed).

a)	Unit No.	Street No.	Street Name and Type	Suburb
			Kennedy Highway	Mareeba
	Postcode	Lot No.	Plan Type and Number (e.g. RP, SP)	Local Government Area(s)
	4880	84	SP332272	Mareeba Shire
b)	Unit No.	Street No.	Street Name and Type	Suburb
	Postcode	Lot No.	Plan Type and Number (e.g. RP, SP)	Local Government Area(s)

3.2) Coordinates of premises (appropriate for development in remote areas, over part of a lot or in water not adjoining or adjacent to land e.g. channel dredging in Moreton Bay)

Note: Place each set of coordinates in a separate row.

☐ Coordinates of premises by longitude and latitude

Longitude(s)	Latitude(s)	Datum	Local Government Area(s) (if applicable)
		<input type="checkbox"/> WGS84 <input type="checkbox"/> GDA94 <input type="checkbox"/> Other:	

☐ Coordinates of premises by easting and northing

Easting(s)	Northing(s)	Zone Ref.	Datum	Local Government Area(s) (if applicable)
		<input type="checkbox"/> 54 <input type="checkbox"/> 55 <input type="checkbox"/> 56	<input type="checkbox"/> WGS84 <input type="checkbox"/> GDA94 <input type="checkbox"/> Other:	

3.3) Additional premises

- ☐ Additional premises are relevant to this development application and the details of these premises have been attached in a schedule to this development application
☒ Not required

4) Identify any of the following that apply to the premises and provide any relevant details

☐ In or adjacent to a water body or watercourse or in or above an aquifer
 Name of water body, watercourse or aquifer:

☐ On strategic port land under the *Transport Infrastructure Act 1994*
 Lot on plan description of strategic port land:
 Name of port authority for the lot:

☐ In a tidal area
 Name of local government for the tidal area (if applicable):
 Name of port authority for tidal area (if applicable):

<input type="checkbox"/> On airport land under the <i>Airport Assets (Restructuring and Disposal) Act 2008</i>
Name of airport: <input type="text"/>
<input type="checkbox"/> Listed on the Environmental Management Register (EMR) under the <i>Environmental Protection Act 1994</i>
EMR site identification: <input type="text"/>
<input type="checkbox"/> Listed on the Contaminated Land Register (CLR) under the <i>Environmental Protection Act 1994</i>
CLR site identification: <input type="text"/>

5) Are there any existing easements over the premises?

Note: Easement uses vary throughout Queensland and are to be identified correctly and accurately. For further information on easements and how they may affect the proposed development, see [DA Forms Guide](#).

- ☐ Yes – All easement locations, types and dimensions are included in plans submitted with this development application
- ☒ No

PART 3 – DEVELOPMENT DETAILS

Section 1 – Aspects of development

6.1) Provide details about the first development aspect

a) What is the type of development? *(tick only one box)*

- ☐ Material change of use ☐ Reconfiguring a lot ☒ Operational work ☐ Building work

b) What is the approval type? *(tick only one box)*

- ☒ Development permit ☐ Preliminary approval ☐ Preliminary approval that includes a variation approval

c) What is the level of assessment?

- ☒ Code assessment ☐ Impact assessment *(requires public notification)*

d) Provide a brief description of the proposal (e.g. 6 unit apartment building defined as multi-unit dwelling, reconfiguration of 1 lot into 3 lots):

Earthworks (exceeding 50m³) and ancillary stormwater management works and driveway access works

e) Relevant plans

Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see [DA Forms guide: Relevant plans](#).

- ☒ Relevant plans of the proposed development are attached to the development application

6.2) Provide details about the second development aspect

a) What is the type of development? *(tick only one box)*

- ☐ Material change of use ☐ Reconfiguring a lot ☐ Operational work ☐ Building work

b) What is the approval type? *(tick only one box)*

- ☐ Development permit ☐ Preliminary approval ☐ Preliminary approval that includes a variation approval

c) What is the level of assessment?

- ☐ Code assessment ☐ Impact assessment *(requires public notification)*

d) Provide a brief description of the proposal (e.g. 6 unit apartment building defined as multi-unit dwelling, reconfiguration of 1 lot into 3 lots):

e) Relevant plans

Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see [DA Forms Guide: Relevant plans](#).

- ☐ Relevant plans of the proposed development are attached to the development application

6.3) Additional aspects of development

- ☐ Additional aspects of development are relevant to this development application and the details for these aspects that would be required under Part 3 Section 1 of this form have been attached to this development application
- ☒ Not required

6.4) Is the application for State facilitated development?

- ☐ Yes - Has a notice of declaration been given by the Minister?
- ☒ No

Section 2 – Further development details**7) Does the proposed development application involve any of the following?**

Material change of use	<input type="checkbox"/> Yes – complete division 1 if assessable against a local planning instrument
Reconfiguring a lot	<input type="checkbox"/> Yes – complete division 2
Operational work	<input type="checkbox"/> Yes – complete division 3
Building work	<input type="checkbox"/> Yes – complete <i>DA Form 2 – Building work details</i>

Division 1 – Material change of use

Note: This division is only required to be completed if any part of the development application involves a material change of use assessable against a local planning instrument.

8.1) Describe the proposed material change of use

Provide a general description of the proposed use	Provide the planning scheme definition (include each definition in a new row)	Number of dwelling units (if applicable)	Gross floor area (m ²) (if applicable)

8.2) Does the proposed use involve the use of existing buildings on the premises?

- ☐ Yes
- ☐ No

8.3) Does the proposed development relate to temporary accepted development under the Planning Regulation?

- ☐ Yes – provide details below or include details in a schedule to this development application
- ☐ No

Provide a general description of the temporary accepted development	Specify the stated period dates under the Planning Regulation

Division 2 – Reconfiguring a lot

Note: This division is only required to be completed if any part of the development application involves reconfiguring a lot.

9.1) What is the total number of existing lots making up the premises?

--

9.2) What is the nature of the lot reconfiguration? (tick all applicable boxes)

<input type="checkbox"/> Subdivision (complete 10)	<input type="checkbox"/> Dividing land into parts by agreement (complete 11)
<input type="checkbox"/> Boundary realignment (complete 12)	<input type="checkbox"/> Creating or changing an easement giving access to a lot from a constructed road (complete 13)

10) Subdivision				
10.1) For this development, how many lots are being created and what is the intended use of those lots:				
Intended use of lots created	Residential	Commercial	Industrial	Other, please specify:
Number of lots created				

10.2) Will the subdivision be staged?	
<input type="checkbox"/> Yes – provide additional details below <input type="checkbox"/> No	
How many stages will the works include?	
What stage(s) will this development application apply to?	

11) Dividing land into parts by agreement – how many parts are being created and what is the intended use of the parts?				
Intended use of parts created	Residential	Commercial	Industrial	Other, please specify:
Number of parts created				

12) Boundary realignment			
12.1) What are the current and proposed areas for each lot comprising the premises?			
Current lot		Proposed lot	
Lot on plan description	Area (m ²)	Lot on plan description	Area (m ²)
12.2) What is the reason for the boundary realignment?			

13) What are the dimensions and nature of any existing easements being changed and/or any proposed easement? (attach schedule if there are more than two easements)				
Existing or proposed?	Width (m)	Length (m)	Purpose of the easement? (e.g. pedestrian access)	Identify the land/lot(s) benefitted by the easement

Division 3 – Operational work

Note: This division is only required to be completed if any part of the development application involves operational work.

14.1) What is the nature of the operational work?	
<input type="checkbox"/> Road work <input type="checkbox"/> Drainage work <input type="checkbox"/> Landscaping <input type="checkbox"/> Other – please specify:	<input checked="" type="checkbox"/> Stormwater <input checked="" type="checkbox"/> Earthworks <input type="checkbox"/> Signage <input type="checkbox"/> Water infrastructure <input type="checkbox"/> Sewage infrastructure <input type="checkbox"/> Clearing vegetation Earthworks exceeding a volume of 50m ³ and ancillary stormwater management works and driveway access works.
14.2) Is the operational work necessary to facilitate the creation of new lots? (e.g. subdivision)	
<input type="checkbox"/> Yes – specify number of new lots:	
<input checked="" type="checkbox"/> No	

14.3) What is the monetary value of the proposed operational work? (include GST, materials and labour)

\$ 691,500

PART 4 – ASSESSMENT MANAGER DETAILS

15) Identify the assessment manager(s) who will be assessing this development application

Mareeba shire council

16) Has the local government agreed to apply a superseded planning scheme for this development application?

- ☐ Yes – a copy of the decision notice is attached to this development application
- ☐ The local government is taken to have agreed to the superseded planning scheme request – relevant documents attached
- ☒ No

PART 5 – REFERRAL DETAILS

17) Does this development application include any aspects that have any referral requirements?

Note: A development application will require referral if prescribed by the Planning Regulation 2017.

- ☐ No, there are no referral requirements relevant to any development aspects identified in this development application – proceed to Part 6

Matters requiring referral to the **Chief Executive of the Planning Act 2016:**

- ☐ Clearing native vegetation
- ☐ Contaminated land (*unexploded ordnance*)
- ☐ Environmentally relevant activities (ERA) (*only if the ERA has not been devolved to a local government*)
- ☐ Fisheries – aquaculture
- ☐ Fisheries – declared fish habitat area
- ☐ Fisheries – marine plants
- ☐ Fisheries – waterway barrier works
- ☐ Hazardous chemical facilities
- ☐ Heritage places – Queensland heritage place (*on or near a Queensland heritage place*)
- ☐ Infrastructure-related referrals – designated premises
- ☐ Infrastructure-related referrals – state transport infrastructure
- ☒ Infrastructure-related referrals – State transport corridor and future State transport corridor
- ☐ Infrastructure-related referrals – State-controlled transport tunnels and future state-controlled transport tunnels
- ☐ Infrastructure-related referrals – near a state-controlled road intersection
- ☐ Koala habitat in SEQ region – interfering with koala habitat in koala habitat areas outside koala priority areas
- ☐ Koala habitat in SEQ region – key resource areas
- ☐ Ports – Brisbane core port land – near a State transport corridor or future State transport corridor
- ☐ Ports – Brisbane core port land – environmentally relevant activity (ERA)
- ☐ Ports – Brisbane core port land – tidal works or work in a coastal management district
- ☐ Ports – Brisbane core port land – hazardous chemical facility
- ☐ Ports – Brisbane core port land – taking or interfering with water
- ☐ Ports – Brisbane core port land – referable dams
- ☐ Ports – Brisbane core port land – fisheries
- ☐ Ports – Land within Port of Brisbane's port limits (*below high-water mark*)
- ☐ SEQ development area
- ☐ SEQ regional landscape and rural production area or SEQ rural living area – tourist activity or sport and recreation activity
- ☐ SEQ regional landscape and rural production area or SEQ rural living area – community activity
- ☐ SEQ regional landscape and rural production area or SEQ rural living area – indoor recreation
- ☐ SEQ regional landscape and rural production area or SEQ rural living area – urban activity
- ☐ SEQ regional landscape and rural production area or SEQ rural living area – combined use
- ☐ SEQ northern inter-urban break – tourist activity or sport and recreation activity

<input type="checkbox"/> SEQ northern inter-urban break – community activity <input type="checkbox"/> SEQ northern inter-urban break – indoor recreation <input type="checkbox"/> SEQ northern inter-urban break – urban activity <input type="checkbox"/> SEQ northern inter-urban break – combined use <input type="checkbox"/> Tidal works or works in a coastal management district <input type="checkbox"/> Reconfiguring a lot in a coastal management district or for a canal <input type="checkbox"/> Erosion prone area in a coastal management district <input type="checkbox"/> Urban design <input type="checkbox"/> Water-related development – taking or interfering with water <input type="checkbox"/> Water-related development – removing quarry material (<i>from a watercourse or lake</i>) <input type="checkbox"/> Water-related development – referable dams <input type="checkbox"/> Water-related development – levees (<i>category 3 levees only</i>) <input type="checkbox"/> Wetland protection area
Matters requiring referral to the local government: <input type="checkbox"/> Airport land <input type="checkbox"/> Environmentally relevant activities (ERA) (<i>only if the ERA has been devolved to local government</i>) <input type="checkbox"/> Heritage places – Local heritage places
Matters requiring referral to the Chief Executive of the distribution entity or transmission entity: <input checked="" type="checkbox"/> Infrastructure-related referrals – Electricity infrastructure
Matters requiring referral to: <ul style="list-style-type: none"> • The Chief Executive of the holder of the licence, if not an individual • The holder of the licence, if the holder of the licence is an individual <input type="checkbox"/> Infrastructure-related referrals – Oil and gas infrastructure
Matters requiring referral to the Brisbane City Council: <input type="checkbox"/> Ports – Brisbane core port land
Matters requiring referral to the Minister responsible for administering the Transport Infrastructure Act 1994: <input type="checkbox"/> Ports – Brisbane core port land (<i>where inconsistent with the Brisbane port LUP for transport reasons</i>) <input type="checkbox"/> Ports – Strategic port land
Matters requiring referral to the relevant port operator, if applicant is not port operator: <input type="checkbox"/> Ports – Land within Port of Brisbane's port limits (<i>below high-water mark</i>)
Matters requiring referral to the Chief Executive of the relevant port authority: <input type="checkbox"/> Ports – Land within limits of another port (<i>below high-water mark</i>)
Matters requiring referral to the Gold Coast Waterways Authority: <input type="checkbox"/> Tidal works or work in a coastal management district (<i>in Gold Coast waters</i>)
Matters requiring referral to the Queensland Fire and Emergency Service: <input type="checkbox"/> Tidal works or work in a coastal management district (<i>involving a marina (more than six vessel berths)</i>)

18) Has any referral agency provided a referral response for this development application?		
<input checked="" type="checkbox"/> Yes – referral response(s) received and listed below are attached to this development application <input type="checkbox"/> No		
Referral requirement	Referral agency	Date of referral response
Schedule 10, Part 9, Division 2, Table 3, Item 1 (10.9.2.3.1) - Operational Work on premises located within 10m of a substation site	Ergon Energy	14/02/2025
Identify and describe any changes made to the proposed development application that was the subject of the referral response and this development application, or include details in a schedule to this development application (<i>if applicable</i>).		

Nil

PART 6 – INFORMATION REQUEST

19) Information request under the DA Rules

☒ I agree to receive an information request if determined necessary for this development application

☐ I do not agree to accept an information request for this development application

Note: By not agreeing to accept an information request I, the applicant, acknowledge:

- that this development application will be assessed and decided based on the information provided when making this development application and the assessment manager and any referral agencies relevant to the development application are not obligated under the DA Rules to accept any additional information provided by the applicant for the development application unless agreed to by the relevant parties
- Part 3 under Chapter 1 of the DA Rules will still apply if the application is an application listed under section 11.3 of the DA Rules or
- Part 2 under Chapter 2 of the DA Rules will still apply if the application is for state facilitated development

Further advice about information requests is contained in the [DA Forms Guide](#).

PART 7 – FURTHER DETAILS

20) Are there any associated development applications or current approvals? (e.g. a preliminary approval)

☐ Yes – provide details below or include details in a schedule to this development application

☐ No

List of approval/development application references	Reference number	Date	Assessment manager
<input type="checkbox"/> Approval <input type="checkbox"/> Development application			
<input type="checkbox"/> Approval <input type="checkbox"/> Development application			

21) Has the portable long service leave levy been paid? (only applicable to development applications involving building work or operational work)

☒ Yes – a copy of the receipted QLeave form is attached to this development application

☐ No – I, the applicant will provide evidence that the portable long service leave levy has been paid before the assessment manager decides the development application. I acknowledge that the assessment manager may give a development approval only if I provide evidence that the portable long service leave levy has been paid

☐ Not applicable (e.g. building and construction work is less than \$150,000 excluding GST)

Amount paid	Date paid (dd/mm/yy)	QLeave levy number (A, B or E)
\$ 1174112.00	02/01/2025	A2000175

22) Is this development application in response to a show cause notice or required as a result of an enforcement notice?

☐ Yes – show cause or enforcement notice is attached

☒ No

23) Further legislative requirements

Environmentally relevant activities

23.1) Is this development application also taken to be an application for an environmental authority for an **Environmentally Relevant Activity (ERA)** under section 115 of the *Environmental Protection Act 1994*?

- ☐ Yes – the required attachment (form ESR/2015/1791) for an application for an environmental authority accompanies this development application, and details are provided in the table below
- ☒ No

Note: Application for an environmental authority can be found by searching “ESR/2015/1791” as a search term at www.qld.gov.au. An ERA requires an environmental authority to operate. See www.business.qld.gov.au for further information.

Proposed ERA number:		Proposed ERA threshold:	
Proposed ERA name:			

- ☐ Multiple ERAs are applicable to this development application and the details have been attached in a schedule to this development application.

Hazardous chemical facilities

23.2) Is this development application for a **hazardous chemical facility**?

- ☐ Yes – *Form 536: Notification of a facility exceeding 10% of schedule 15 threshold* is attached to this development application
- ☒ No

Note: See www.business.qld.gov.au for further information about hazardous chemical notifications.

Clearing native vegetation

23.3) Does this development application involve **clearing native vegetation** that requires written confirmation that the chief executive of the *Vegetation Management Act 1999* is satisfied the clearing is for a relevant purpose under section 22A of the *Vegetation Management Act 1999*?

- ☐ Yes – this development application includes written confirmation from the chief executive of the *Vegetation Management Act 1999* (s22A determination)
- ☒ No

Note: 1. Where a development application for operational work or material change of use requires a s22A determination and this is not included, the development application is prohibited development.
2. See <https://www.qld.gov.au/environment/land/vegetation/applying> for further information on how to obtain a s22A determination.

Environmental offsets

23.4) Is this development application taken to be a prescribed activity that may have a significant residual impact on a **prescribed environmental matter** under the *Environmental Offsets Act 2014*?

- ☐ Yes – I acknowledge that an environmental offset must be provided for any prescribed activity assessed as having a significant residual impact on a prescribed environmental matter
- ☒ No

Note: The environmental offset section of the Queensland Government's website can be accessed at www.qld.gov.au for further information on environmental offsets.

Koala habitat in SEQ Region

23.5) Does this development application involve a material change of use, reconfiguring a lot or operational work which is assessable development under Schedule 10, Part 10 of the Planning Regulation 2017?

- ☐ Yes – the development application involves premises in the koala habitat area in the koala priority area
- ☐ Yes – the development application involves premises in the koala habitat area outside the koala priority area
- ☒ No

Note: If a koala habitat area determination has been obtained for this premises and is current over the land, it should be provided as part of this development application. See koala habitat area guidance materials at www.desi.qld.gov.au for further information.

Water resources

23.6) Does this development application involve **taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the *Water Act 2000***?

- ☐ Yes – the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the *Water Act 2000* may be required prior to commencing development
- ☒ No

Note: Contact the Department of Resources at www.resources.qld.gov.au for further information.

DA templates are available from planning.statedevelopment.qld.gov.au. If the development application involves:

- Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1
- Taking or interfering with water in a watercourse, lake or spring: complete DA Form 1 Template 2
- Taking overland flow water: complete DA Form 1 Template 3.

Waterway barrier works

23.7) Does this application involve **waterway barrier works**?

- ☐ Yes – the relevant template is completed and attached to this development application
- ☒ No

DA templates are available from planning.statedevelopment.qld.gov.au. For a development application involving waterway barrier works, complete DA Form 1 Template 4.

Marine activities

23.8) Does this development application involve **aquaculture, works within a declared fish habitat area or removal, disturbance or destruction of marine plants**?

- ☐ Yes – an associated resource allocation authority is attached to this development application, if required under the *Fisheries Act 1994*
- ☒ No

Note: See guidance materials at www.daf.qld.gov.au for further information.

Quarry materials from a watercourse or lake

23.9) Does this development application involve the **removal of quarry materials from a watercourse or lake under the *Water Act 2000***?

- ☐ Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development
- ☒ No

Note: Contact the Department of Resources at www.resources.qld.gov.au and www.business.qld.gov.au for further information.

Quarry materials from land under tidal waters

23.10) Does this development application involve the **removal of quarry materials from land under tidal water under the *Coastal Protection and Management Act 1995***?

- ☐ Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development
- ☒ No

Note: Contact the Department of Environment, Science and Innovation at www.desi.qld.gov.au for further information.

Referable dams

23.11) Does this development application involve a **referable dam** required to be failure impact assessed under section 343 of the *Water Supply (Safety and Reliability) Act 2008* (the *Water Supply Act*)?

- ☐ Yes – the 'Notice Accepting a Failure Impact Assessment' from the chief executive administering the *Water Supply Act* is attached to this development application
- ☒ No

Note: See guidance materials at www.resources.qld.gov.au for further information.

Tidal work or development within a coastal management district

23.12) Does this development application involve **tidal work or development in a coastal management district**?

- ☐ Yes – the following is included with this development application:
- ☐ Evidence the proposal meets the code for assessable development that is prescribed tidal work (*only required if application involves prescribed tidal work*)
 - ☐ A certificate of title

☒ No

Note: See guidance materials at www.desi.qld.gov.au for further information.

Queensland and local heritage places

23.13) Does this development application propose development on or adjoining a place entered in the **Queensland heritage register** or on a place entered in a local government's **Local Heritage Register**?

☐ Yes – details of the heritage place are provided in the table below

☒ No

Note: See guidance materials at www.desi.qld.gov.au for information requirements regarding development of Queensland heritage places. For a heritage place that has cultural heritage significance as a local heritage place and a Queensland heritage place, provisions are in place under the Planning Act 2016 that limit a local categorising instrument from including an assessment benchmark about the effect or impact of, development on the stated cultural heritage significance of that place. See guidance materials at www.planning.statedevelopment.qld.gov.au for information regarding assessment of Queensland heritage places.

Name of the heritage place:		Place ID:	
-----------------------------	--	-----------	--

Decision under section 62 of the Transport Infrastructure Act 1994

23.14) Does this development application involve new or changed access to a state-controlled road?

☒ Yes – this application will be taken to be an application for a decision under section 62 of the *Transport Infrastructure Act 1994* (subject to the conditions in section 75 of the *Transport Infrastructure Act 1994* being satisfied)

☐ No

Walkable neighbourhoods assessment benchmarks under Schedule 12A of the Planning Regulation

23.15) Does this development application involve reconfiguring a lot into 2 or more lots in certain residential zones (except rural residential zones), where at least one road is created or extended?

☐ Yes – Schedule 12A is applicable to the development application and the assessment benchmarks contained in schedule 12A have been considered

☒ No

Note: See guidance materials at www.planning.statedevelopment.qld.gov.au for further information.

PART 8 – CHECKLIST AND APPLICANT DECLARATION

24) Development application checklist

I have identified the assessment manager in question 15 and all relevant referral requirement(s) in question 17	<input checked="" type="checkbox"/> Yes
Note: See the <i>Planning Regulation 2017</i> for referral requirements	
If building work is associated with the proposed development, Parts 4 to 6 of DA Form 2 – Building work details have been completed and attached to this development application	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
Supporting information addressing any applicable assessment benchmarks is with the development application	<input checked="" type="checkbox"/> Yes
Note: This is a mandatory requirement and includes any relevant templates under question 23, a planning report and any technical reports required by the relevant categorising instruments (e.g. local government planning schemes, State Planning Policy, State Development Assessment Provisions). For further information, see DA Forms Guide: Planning Report Template .	
Relevant plans of the development are attached to this development application	<input checked="" type="checkbox"/> Yes
Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see DA Forms Guide: Relevant plans .	
The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 21)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not applicable

25) Applicant declaration

- ☒ By making this development application, I declare that all information in this development application is true and correct
- ☐ Where an email address is provided in Part 1 of this form, I consent to receive future electronic communications from the assessment manager and any referral agency for the development application where written information is required or permitted pursuant to sections 11 and 12 of the *Electronic Transactions Act 2001*

Note: It is unlawful to intentionally provide false or misleading information.

Privacy – Personal information collected in this form will be used by the assessment manager and/or chosen assessment manager, any relevant referral agency and/or building certifier (including any professional advisers which may be engaged by those entities) while processing, assessing and deciding the development application. All information relating to this development application may be available for inspection and purchase, and/or published on the assessment manager's and/or referral agency's website.

Personal information will not be disclosed for a purpose unrelated to the *Planning Act 2016*, Planning Regulation 2017 and the DA Rules except where:

- such disclosure is in accordance with the provisions about public access to documents contained in the *Planning Act 2016* and the Planning Regulation 2017, and the access rules made under the *Planning Act 2016* and Planning Regulation 2017; or
- required by other legislation (including the *Right to Information Act 2009*); or
- otherwise required by law.

This information may be stored in relevant databases. The information collected will be retained as required by the *Public Records Act 2002*.

PART 9 – FOR COMPLETION OF THE ASSESSMENT MANAGER – FOR OFFICE USE ONLY

Date received: Reference number(s):

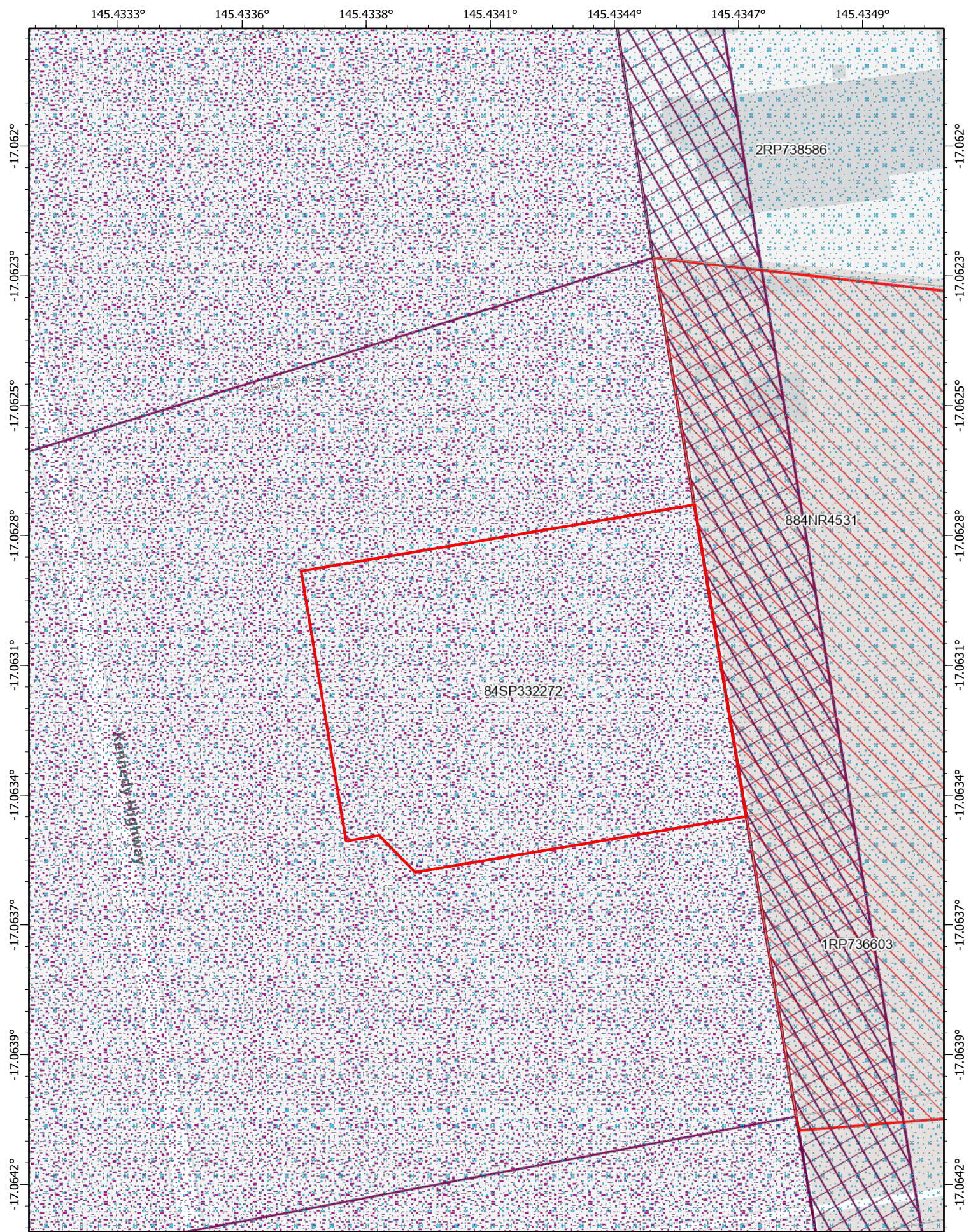
Notification of engagement of alternative assessment manager

Prescribed assessment manager	
Name of chosen assessment manager	
Date chosen assessment manager engaged	
Contact number of chosen assessment manager	
Relevant licence number(s) of chosen assessment manager	

QLeave notification and payment

Note: For completion by assessment manager if applicable

Description of the work	
QLeave project number	
Amount paid (\$)	Date paid (dd/mm/yy)
Date receipted form sighted by assessment manager	
Name of officer who sighted the form	



DA Mapping System - Export Map

Date: 14/02/2025

Disclaimer This map has been generated from the information supplied to the Queensland Government for the purposes of the Development Assessment Mapping System. Note that this is a print screen only. The map generated has been prepared with due care based on the best available information at the time of publication. The State of Queensland holds no responsibility for any errors, inconsistencies or omissions within this document. Any decisions made by other parties based on this document are solely the responsibility of those parties. This information is supplied subject to the full terms and conditions available on the department's website.



Scale: 1:1,200

0 10 20
Metres

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Document Set ID: 4459323

Version: 1, Version Date: 17/02/2025

-  Cadastre
-  Water resource planning area boundaries
-  Areas with substantial potential for UXO
-  Area within 25m of a State-controlled road
-  State-controlled road

DA Mapping System - Export Map

Disclaimer This map has been generated from the information supplied to the Queensland Government for the purposes of the Development Assessment Mapping System. Note that this is a print screen only . The map generated has been prepared with due care based on the best available information at the time of publication. The State of Queensland holds no responsibility for any errors, inconsistencies or omissions within this document. Any decisions made by other parties based on this document are solely the responsibility of those parties. This information is supplied subject to the full terms and conditions available on the department's website



420 Flinders Street, Townsville QLD 4810
PO Box 1090, Townsville QLD 4810
ergon.com.au

14 February 2025

Ergon Energy Corporation Limited
People, Property & Safety Division

Attention: Angela Cobcroft

Dear Sir/Madam,

Ergon Advice Agency Response
Our Ref: ECM 23059033 - 23047777

This Referral Agency response is given under section 56 of the *Planning Act 2016*.

Response	
Outcome	Approved in full – No objection
Referral assessment capacity	Advice
Matters referral assessment made against (S55(2))	The purpose of the <i>Electricity Act 1994</i> and <i>Electricity Safety Act 2002</i>
Reasons for decision (S56(7)(b))	<p>The works do not conflict with:</p> <ul style="list-style-type: none">▪ the objectives set out within Part 2, Section 3 of the Electricity Act 1994▪ the purpose of the Electricity Safety Act 2002 as set out within Part 1 Division 2 Section 4 & 5. <p>The works do not adversely impact on the safe, efficient, and economically viable operation of the supply network.</p>
Development Details	
Applicant	Ergon Energy Corporation Limited
Assessment Manager	Mareeba Shire Council
Street Address	Kennedy Highway, Mareeba
RPD	Lot 84 SP332272

Have you seen our fact sheets?

See the 'considerations when developing around electricity infrastructure' section of our website
www.ergon.com.au/referralagency

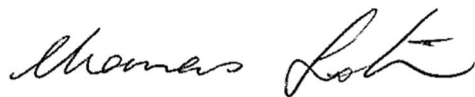
Development Type	Operational Works (Development Permit) – Earthworks
Referral Trigger	<input checked="" type="checkbox"/> Schedule 10, Part 9, Division 2, Table 3, Item 1 (10.9.2.3.1) - Operational Work on premises located within 10m of a substation site
Impacted Electrical Infrastructure	Turkinje 132/66 kV Substation (L84 NR4531 & L1 RP736603)

Ergon provides the following response to the application in accordance with Section 56(1) of the *Planning Act 2016*:

Component of Development	Advice Agency direction
OPW	<input checked="" type="checkbox"/> S56(1)(a) – no requirements for the application

Should you require any further information on the above matter, please contact Tom Sexton on 0429 443 778 or via email at townplanning@ergon.com.au.

Yours faithfully,



Tom Sexton
Town Planner

Have you seen our fact sheets?

See the 'considerations when developing around electricity infrastructure' section of our website
www.ergon.com.au/referralagency

Works services and infrastructure code – Mareeba Shire Council

Complies with PO1/AO1

Complies with PO2/AO2 – not applicable for additional application (earthworks only)

Complies with PO3/AO3 – Stormwater captured is directed away from TMR state road.

Complies with PO4/AO4 – not applicable for additional application (earthworks only)

Complies with PO5/AO5 – not applicable for additional application (earthworks only)

Complies with PO6/AO6

Complies with PO7/AO7

Complies with PO8/AO8 – yes

Complies with PO9/AO9 – yes

Complies with P10/A10 – Site Stormwater flows have been engineered and form 15 supplied.

Complies with P11/A11

Complies with P12/A12 – no worsening effect

Complies with P13/A13

Complies with P14/A14 – no adverse impact

Complies with P15/A15 - yes

Complies with P16/A16 – not applicable

Complies with P17/A17 – no hinderance to site access for emergency services.

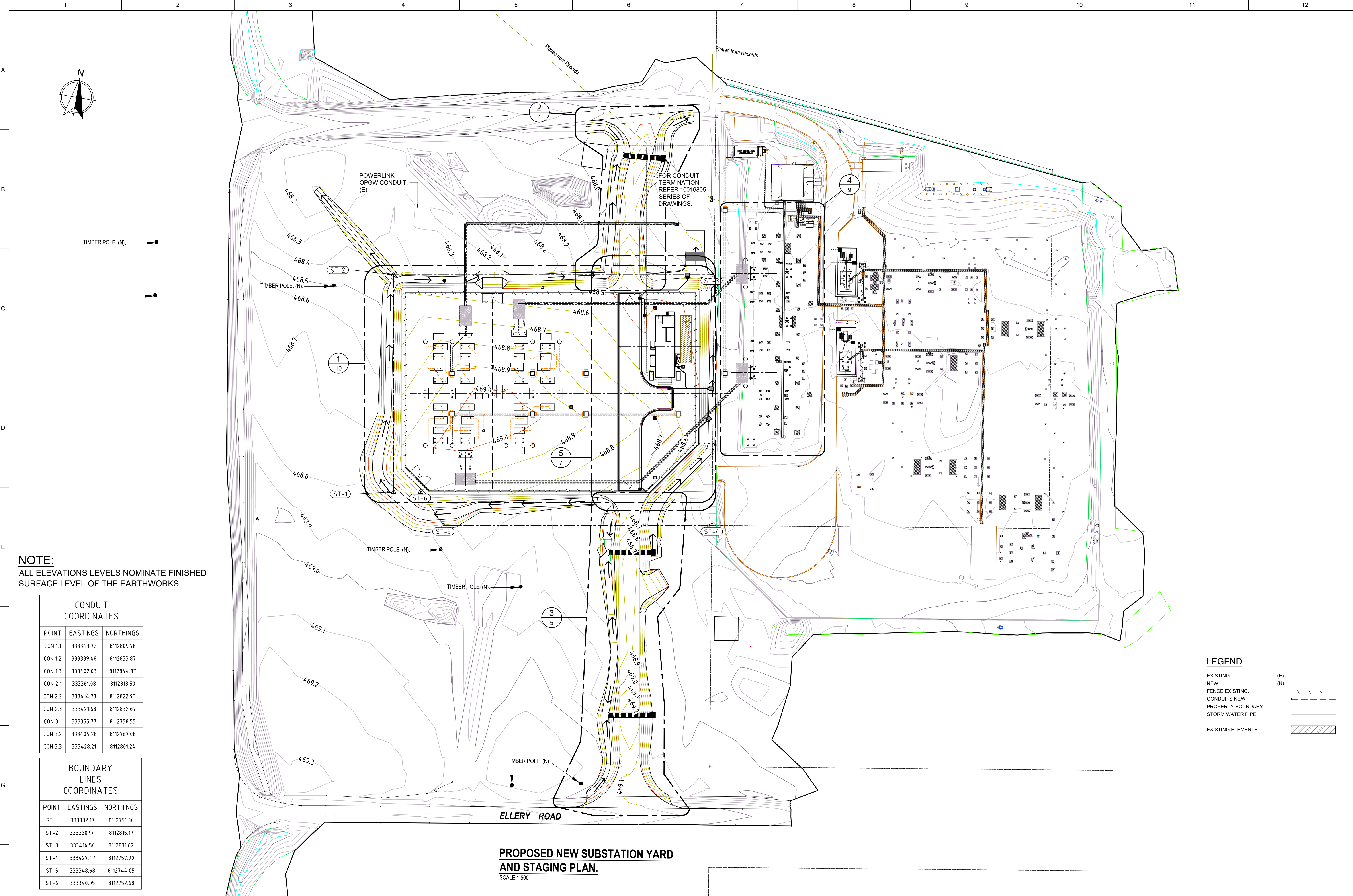
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NOTE:
ALL ELEVATIONS LEVELS NOMINATE FINISHED SURFACE LEVEL OF THE EARTHWORKS.

CONDUIT COORDINATES		
POINT	EASTINGS	NORTHINGS
CON 1.1	333343.72	8112809.78
CON 1.2	333339.48	8112833.87
CON 1.3	333402.03	8112844.87
CON 2.1	333361.08	8112813.50
CON 2.2	333414.73	8112822.93
CON 2.3	333421.68	8112832.67
CON 3.1	333355.77	8112758.55
CON 3.2	333404.28	8112767.08
CON 3.3	333428.21	8112801.24

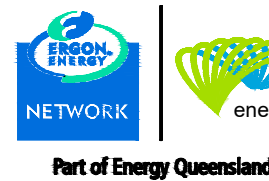
BOUNDARY LINES COORDINATES		
POINT	EASTINGS	NORTHINGS
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ST-2	333320.94	8112815.17
ST-3	333414.50	8112831.62
ST-4	333427.47	8112757.90
ST-5	333348.68	8112744.05
ST-6	333340.05	8112752.68

PROPOSED NEW SUBSTATION YARD AND STAGING PLAN.
SCALE 1:500

AS BUILT DRAWING STAMP

I CERTIFY THAT THE MARK UPS ON THIS DRAWING REPRESENT A TRUE AND ACCURATE REPRESENTATION OF ALL DEPARTURES FROM THE LOCATIONS, LEVELS, SIZE AND MATERIALS THAT OCCURRED DURING CONSTRUCTION FROM OF THE "WORK MAY START" DRAWINGS.

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CONSTRUCTION SUPERVISOR NAME:	TBA
SIGNATURE:	TBA
DATE:	TBA
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DOCUMENT CONTROL	
Drawn	A.BRIAN
Date	06/12/24
Checked	M.CROW
Date	06/12/24
Approved	M.CROW
Date	06/12/24
Approved	####
Date	####

TUWE TURKINJE WEST SUBSTATION
CIVIL WORKS - 66KV ASSET REPLACEMENT
PROPOSED & EXISTING PLAN

Drawing Status Released For Construction

Project Number WR1339630

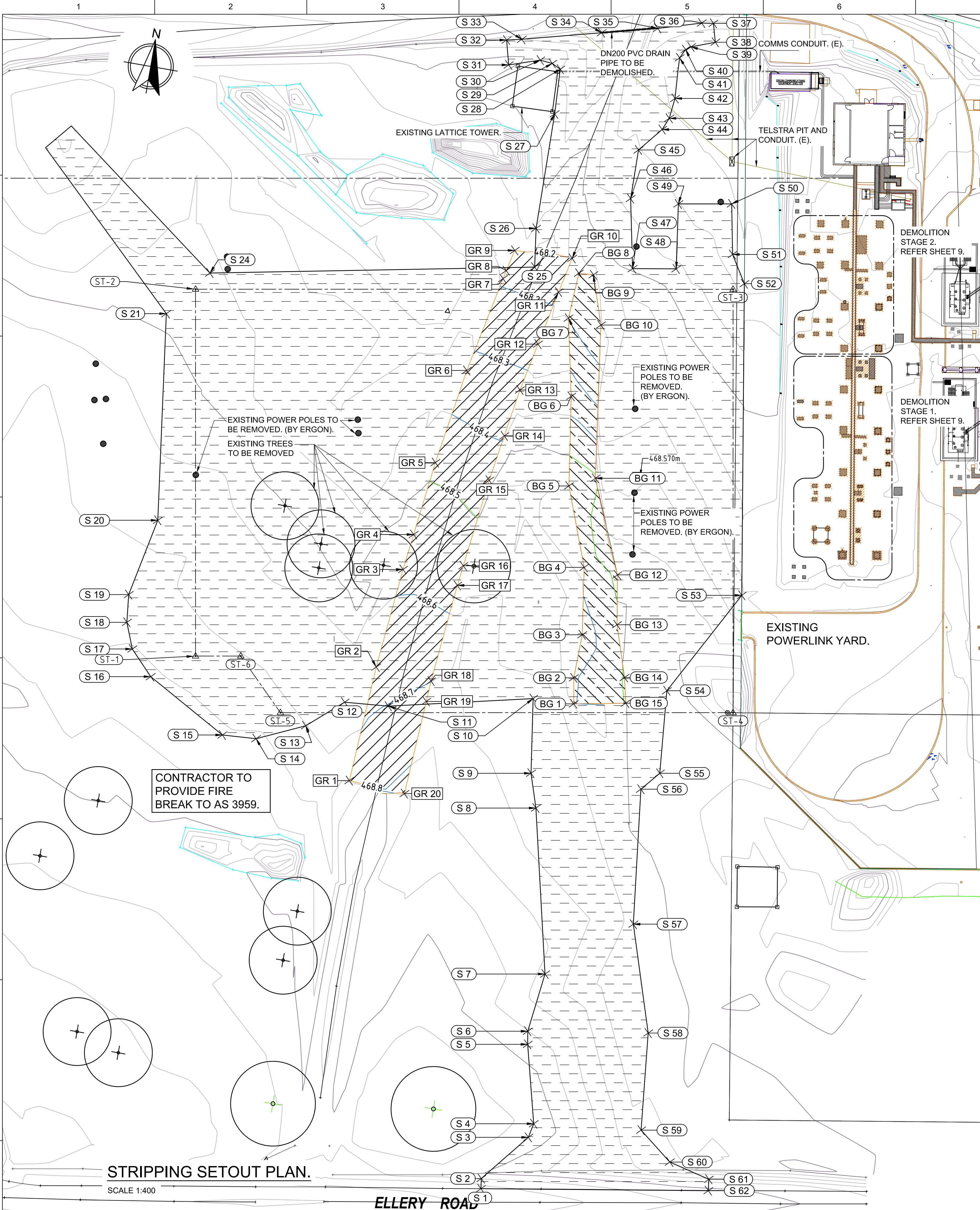
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Revision
A

Scale AS SHOWN

A	ORIGINAL ISSUE	A.B	M.C	M.C	06/12/24
REV	DESCRIPTION	DRN	CHK	APPR	DATE

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STRIPPING AREA SETOUT			
POINT #	EASTINGS	NORTHINGS	
S 1	333398.16	8112667.30	
S 2	333397.92	8112669.08	
S 3	333404.84	8112677.70	
S 4	333405.36	8112680.23	
S 5	333401.88	8112693.87	
S 6	333401.50	8112696.16	
S 7	333402.75	8112706.65	
S 8	333396.07	8112735.27	
S 9	333394.15	8112741.17	
S 10	333392.24	8112754.24	
S 11	333367.26	8112748.48	
S 12	333359.54	8112747.83	
S 13	333353.49	8112742.53	
S 14	333345.25	8112738.77	
S 15	333339.27	8112738.38	
S 16	333325.00	8112746.35	
S 17	333320.95	8112750.60	
S 18	333319.19	8112755.08	
S 19	333318.66	8112759.97	
S 20	333321.46	8112773.79	
S 21	333316.60	8112810.03	
S 22	333290.49	8112835.24	
S 23	333294.32	8112839.81	
S 24	333322.96	8112818.44	
S 25	333379.29	8112829.42	
S 26	333378.36	8112836.20	
S 27	333378.08	8112856.70	
S 28	333377.70	8112864.65	
S 29	333376.13	8112865.41	
S 30	333373.92	8112865.62	
S 31	333368.58	8112863.82	

STRIPPING AREA SETOUT			
POINT #	EASTINGS	NORTHINGS	
S 32	333367.45	8112868.09	
S 33	333370.09	8112868.68	
S 34	333383.77	8112872.27	
S 35	333393.41	8112874.74	
S 36	333400.90	8112877.01	
S 37	333402.95	8112877.33	
S 38	333403.86	8112874.09	
S 39	333399.76	8112872.53	
S 40	333398.91	8112871.90	
S 41	333398.12	8112870.29	
S 42	333398.57	8112863.07	
S 43	333398.17	8112859.43	
S 44	333397.27	8112857.26	
S 45	333393.78	8112852.98	
S 46	333393.90	8112844.28	
S 47	333396.38	8112832.13	
S 48	333404.00	8112833.44	
S 49	333402.37	8112844.81	
S 50	333411.66	8112846.45	
S 51	333413.36	8112837.67	
S 52	333416.31	8112832.94	
S 53	333425.40	8112778.60	
S 54	333415.28	8112759.70	
S 55	333416.58	8112745.11	
S 56	333413.78	8112741.76	
S 57	333416.60	8112718.02	
S 58	333422.51	8112699.52	
S 59	333424.25	8112682.40	
S 60	333430.23	8112677.73	
S 61	333437.55	8112675.92	
S 62	333437.81	8112673.92	

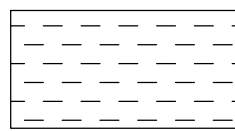
GRADING SETOUT			
POINT #	EASTINGS	NORTHINGS	
GR 1	333362.76	8112734.33	
GR 2	333363.97	8112754.93	
GR 3	333365.64	8112772.74	
GR 4	333366.42	8112779.15	
GR 5	333368.01	8112792.33	
GR 6	333370.64	8112809.33	
GR 7	333374.14	8112826.43	
GR 8	333374.45	8112827.92	
GR 9	333375.32	8112831.71	
GR 10	333385.56	8112832.08	
GR 11	333384.22	8112825.80	
GR 12	333382.23	8112816.10	
GR 13	333380.49	8112807.56	
GR 14	333379.17	8112799.09	
GR 15	333377.91	8112790.90	
GR 16	333376.02	8112775.23	
GR 17	333375.58	8112771.62	
GR 18	333373.94	8112754.17	
GR 19	333373.72	8112750.47	
GR 20	333372.75	8112733.75	

BANK GRADING SETOUT			
POINT #	EASTINGS	NORTHINGS	
BG 1	333399.47	8112754.56	
BG 2	333398.68	8112759.10	
BG 3	333398.85	8112766.84	
BG 4	333397.12	8112778.64	
BG 5	333391.97	8112792.35	
BG 6	333389.61	8112808.02	
BG 7	333386.75	8112821.55	
BG 8	333387.17	8112829.69	
BG 9	333389.76	8112829.87	
BG 10	333392.60	8112821.34	
BG 11	333396.33	8112794.50	
BG 12	333403.13	8112778.35	
BG 13	333404.58	8112769.66	
BG 14	333407.51	8112760.70	
BG 15	333408.51	8112756.28	

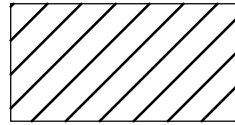
NOTE:
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IMPORTANT NOTES:

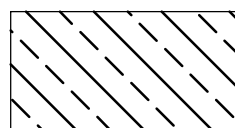
- THIS SITE IS NOT ON THE ENVIRONMENTAL MANAGEMENT REGISTER. REFER TO ENVIRONMENTAL MANAGEMENT PLAN.
- THE CONTRACTOR SHALL GIVE ADEQUATE NOTICE (APPROXIMATELY 4 WEEKS) TO ERGON ENERGY TO ALLOW ENGAGEMENT OF AN ECOLOGIST TO BE PRESENT DURING SITE CLEARING.
- REFER ENVIRONMENTAL NOTES ON DRAWING 10017002-32 FOR SPECIFIC REQUIREMENTS REGARDING CULTURAL HERITAGE AND SITE FLORA AND FAUNA PRE-CLEARING REQUIREMENTS.
- REFER EARTHWORKS NOTES ON DRAWING 10017002-32 FOR STRIPPING AND STOCKPILING REQUIREMENTS.
- STOCKPILE MULCH AND STRIPPINGS ON-SITE IN THE AREAS INDICATED FOR LATER RE-USE.



DENOTES APPROX 1.09ha AREA TO BE CLEARED AND SLASHED. REFER ENVIRONMENTAL AND SITE CLEARING NOTES ON DRAWING 10017002-32 FOR SPECIFIC REQUIREMENTS.
FOLLOWING ALL APPROVALS AND CLEARANCES, CLEAR AND GRUB ALL TREES AND WOODY SHRUBS. SLASH EXISTING GRASS TO ALLOW EASY LIGHT VEHICLE ACCESS ACROSS ENTIRE LOT. MULCH AND STORE REMOVED VEGETATION IN STOCKPILES AREAS INDICATED.



DENOTES APPROX 1000m² AREA EXISTING ROAD TO BE GRADED. REFER ENVIRONMENTAL AND SITE CLEARING NOTES ON DRAWING 10017002-32 FOR SPECIFIC REQUIREMENTS.
FOLLOWING ALL APPROVALS AND CLEARANCES.



DENOTES APPROX 450m² AREA EXISTING ROAD TO BE GRADED. REFER ENVIRONMENTAL AND SITE CLEARING NOTES ON DRAWING 10017002-32 FOR SPECIFIC REQUIREMENTS.
FOLLOWING ALL APPROVALS AND CLEARANCES.

- 90.0 - EXISTING MAJOR CONTOUR
- 90.1 - EXISTING MINOR CONTOUR
- 200 - SETOUT POINT

ORIGINAL ISSUE			
REV	DESCRIPTION	DRN	CHK
A			

AS BUILT DRAWING STAMP			
I CERTIFY THAT THE MARK UPS ON THIS DRAWING REPRESENT A TRUE AND ACCURATE REPRESENTATION OF ALL DEPARTURES FROM THE LOCATIONS, LEVELS, SIZE AND MATERIALS THAT OCCURRED DURING CONSTRUCTION FROM OF THE "WORK MAY START" DRAWINGS.			
COMPANY NAME:	TBA		
CONSTRUCTION SUPERVISOR NAME:	TBA		
SIGNATURE:	TBA		
DATE:	TBA		
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Drawn	A.BRIAN		
Date	05/12/24		
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Approved	####		
Date	####		

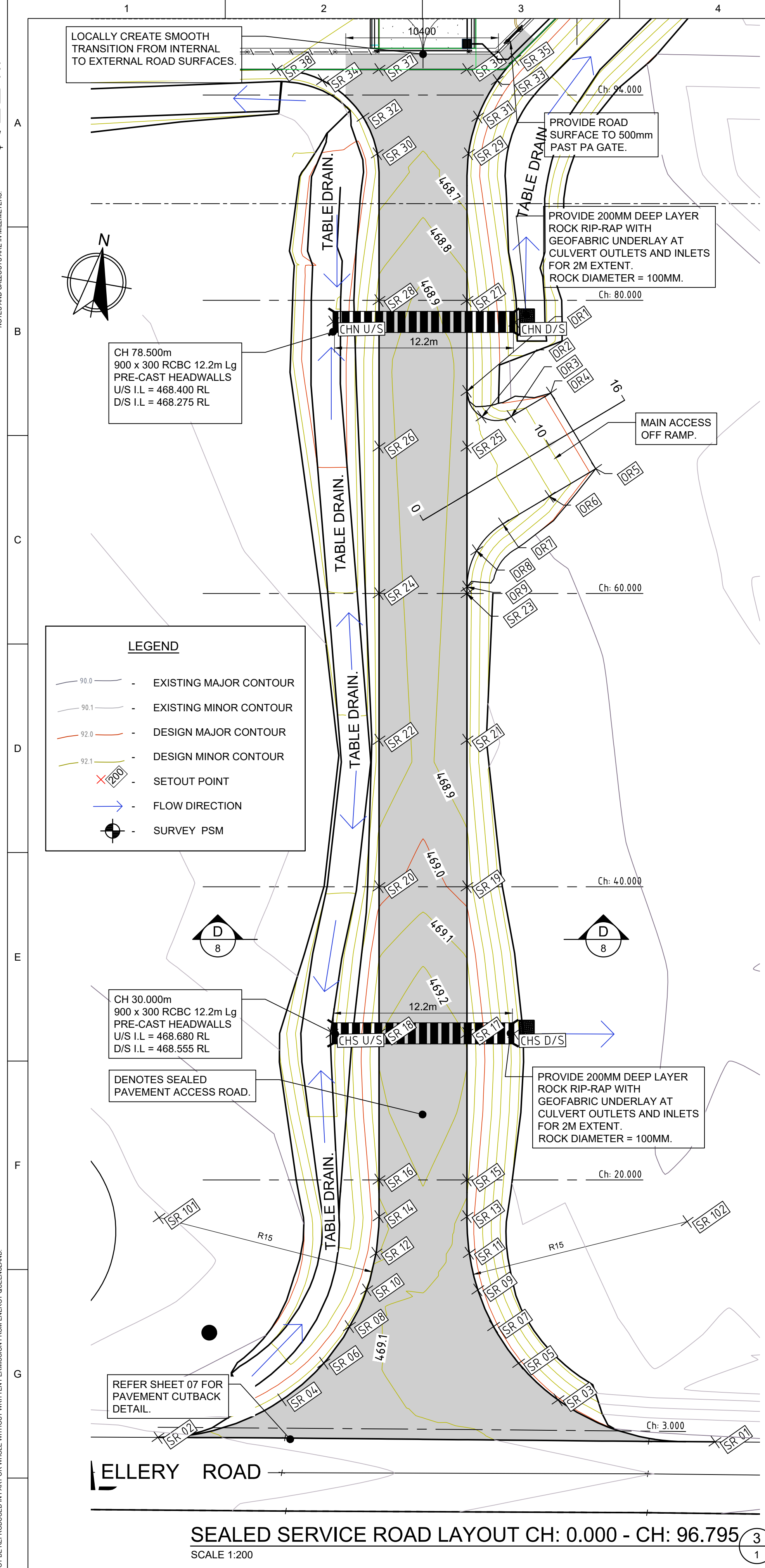
TUWE TURKINJE WEST SUBSTATION	
CIVIL WORKS - 66KV ASSET REPLACEMENT	
SITE LAYOUT	
STAGED DEMOLITION PLAN	

Drawing Status	Released For Construction	
Project Number	WR1339630	
10017002-02		Revision A
Scale	AS SHOWN	

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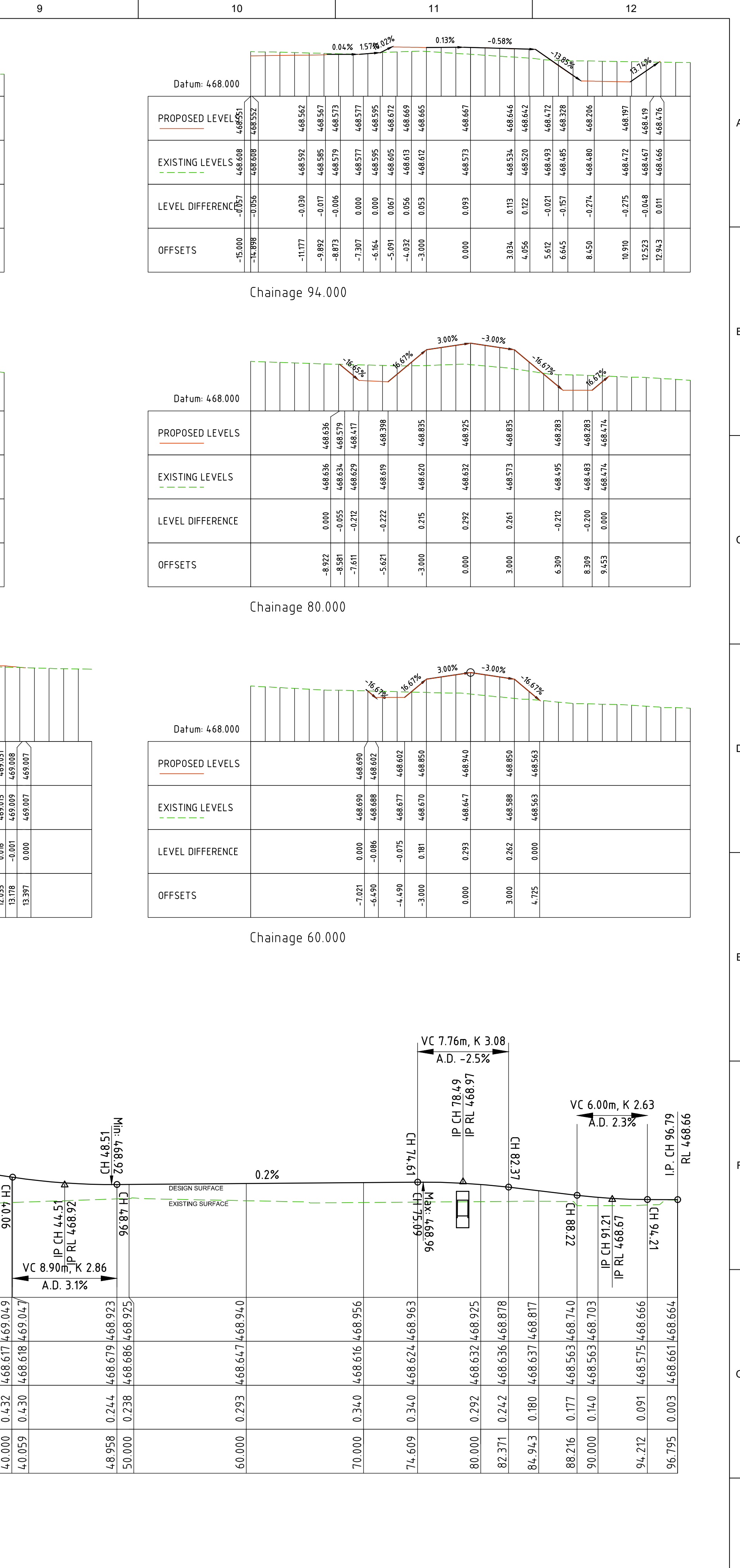
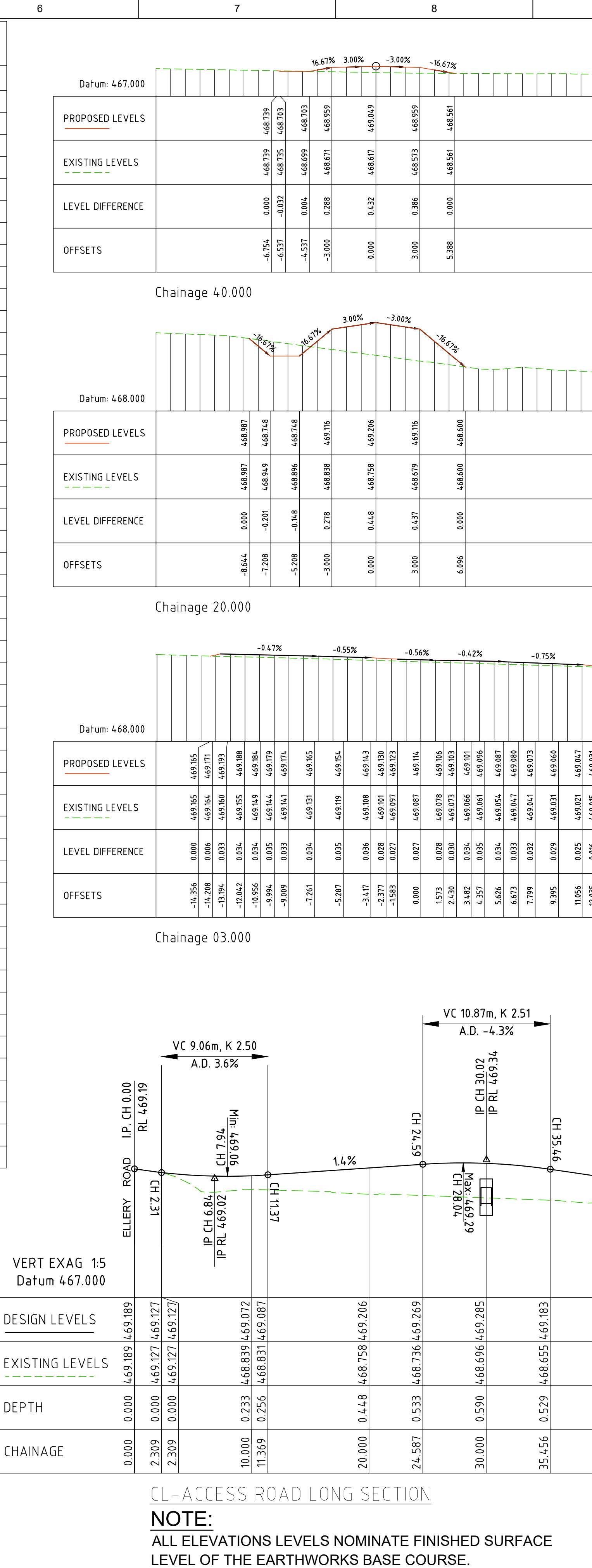
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Document Set ID: 4459323
Version: 1, Version Date: 17/02/2025



ACCESS ROAD SETOUT			
CHANAGE	EASTINGS	NORTHINGS	ELEVATION
OR1	3334.08.51	811274.157	468.872
OR2	3334.09.81	811274.0.04	468.774
OR3	3334.11.79	811274.0.4.0	468.676
OR4	3334.14.15	811274.2.4.4	468.469
OR5	3334.18.07	8112737.9.0	468.460
OR6	3334.15.27	8112735.4.9	468.714
OR7	3334.12.4.8	8112733.0.9	468.834
OR8	3334.11.04	8112730.9.8	468.842
OR9	3334.10.82	8112728.4.3	468.851
SR 01	3334.37.58	8112673.9.2	469.026
SR 02	3334.00.12	8112667.6.5	469.226
SR 03	3334.26.54	8112674.8.9	469.022
SR 04	3334.08.00	8112671.6.3	469.168
SR 05	3334.23.4.6	8112676.8.9	469.036
SR 06	3334.10.38	8112674.5.9	469.145
SR 07	3334.21.35	8112679.0.6	469.048
SR 08	3334.11.67	8112677.3.5	469.127
SR 09	3334.19.86	8112681.3.3	469.058
SR 10	3334.12.4.0	8112680.0.2	469.111
SR 11	3334.18.85	8112683.6.9	469.069
SR 12	3334.12.59	8112682.5.9	469.095
SR 13	3334.18.26	8112686.1.3	469.082
SR 14	3334.12.35	8112685.0.9	469.082
SR 15	3334.17.83	8112688.5.9	469.116
SR 16	3334.11.92	8112687.5.5	469.116
SR 17	3334.16.10	8112698.4.4	469.195
SR 18	3334.10.19	8112697.4.0	469.195
SR 19	3334.14.37	8112708.2.9	468.959
SR 20	3334.08.4.6	8112707.2.5	468.959
SR 21	3334.12.63	8112718.1.4	468.835
SR 22	3334.06.72	8112717.1.0	468.835
SR 23	3334.10.90	8112727.9.9	468.850
SR 24	3334.04.99	8112726.9.4	468.850
SR 25	3334.09.17	8112737.8.4	468.866
SR 26	3334.03.26	8112736.8.0	468.866
SR 27	3334.07.44	8112747.6.7	468.835
SR 28	3334.01.53	8112746.6.3	468.835
SR 29	3334.05.81	8112757.5.5	468.642
SR 30	333399.68	8112756.4.7	468.645
SR 31	3334.05.99	8112760.1.2	468.641
SR 32	333398.29	8112758.7.7	468.661
SR 33	3334.06.87	8112762.8.1	468.640
SR 34	333395.13	8112760.7.5	468.683
SR 35	3334.07.80	8112764.4.3	468.639
SR 36	3334.04.71	8112763.1.9	468.654
SR 37	333398.80	8112762.1.5	468.676
SR 38	333391.91	8112760.9.4	468.702
SR 101	333397.59	8112682.4.3	469.115
SR 102	3334.33.11	8112688.4.0	468.526

RCBC COORDINATES		
POINT	EASTINGS	NORTHINGS
CHN D/S	333395.41	811274.8.76
CHN U/S	333383.20	811274.6.61
CHS D/S	333403.76	8112700.96
CHS U/S	333391.55	8112698.81

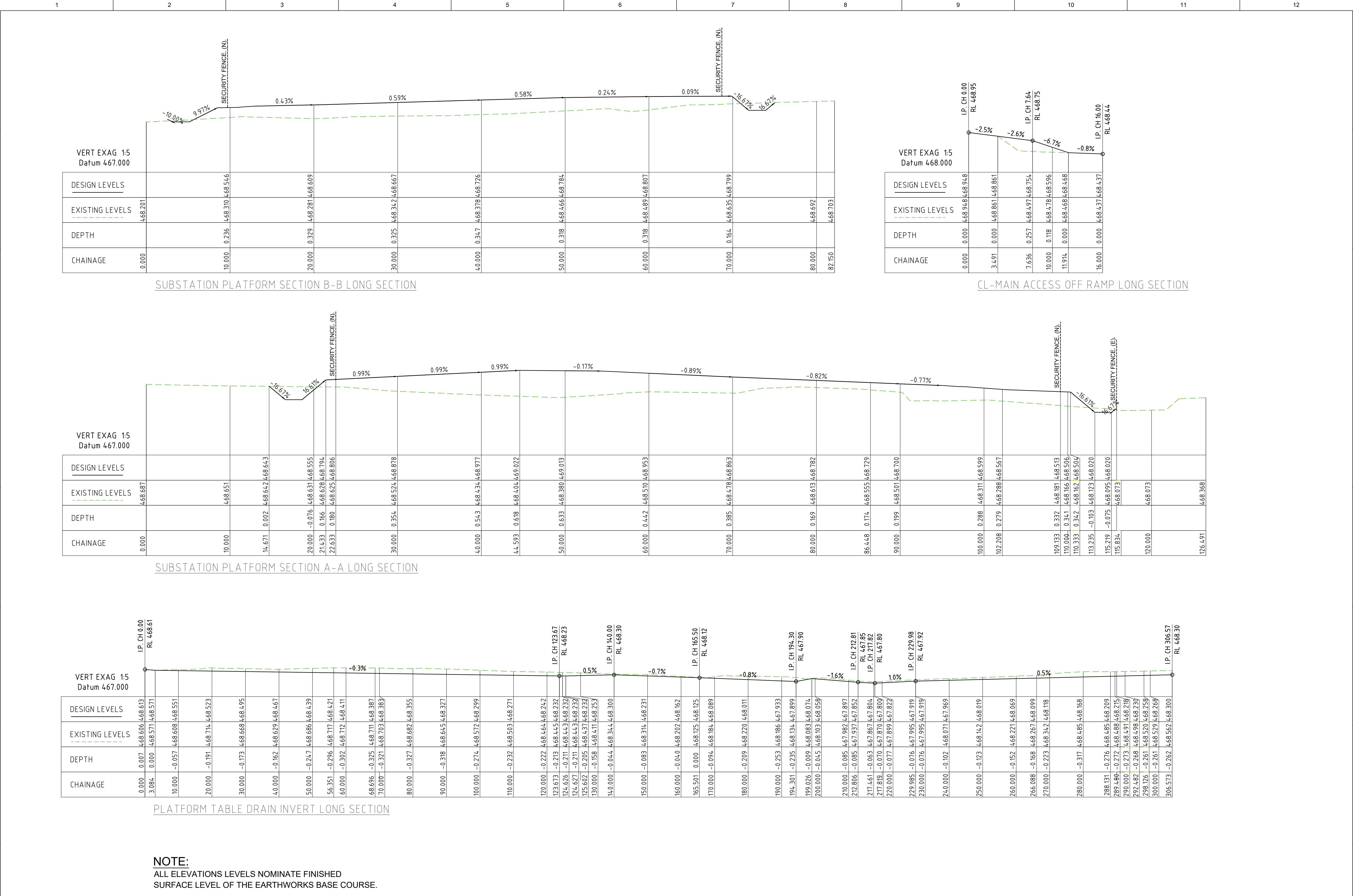


PAVEMENT CUTBACK NOTE ADDED				AS BUILT DRAWING STAMP				DOCUMENT CONTROL				TUWE TURKINJE WEST SUBSTATION CIVIL WORKS - 66KV ASSET REPLACEMENT SITE EARTHWORKS ELLERY RD INTERSECTION AND SECONDARY ACCESS				Drawing Status Released For Construction Project Number WR1339630 10017002-05 Scale AS SHOWN			
B				A.B	M.C	M.C	04/02/25	COMPANY NAME:	TBA	Drawn	A.BRIAN								
A				A.B	M.C	M.C	06/12/24	CONSTRUCTION SUPERVISOR NAME:	TBA	Date	04/02/25								
REV				DRN	CHK	APPR	DATE	SIGNATURE:	TBA	Checked	M.CROW								
								DATE:	TBA	Date	04/02/25								
								MOBILE PHONE NUMBER:	TBA	Approved	#####								
										Date	#####								

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN METERS. NOTES AND CALLOUTS ARE IN MILLIMETERS. 811 x 584

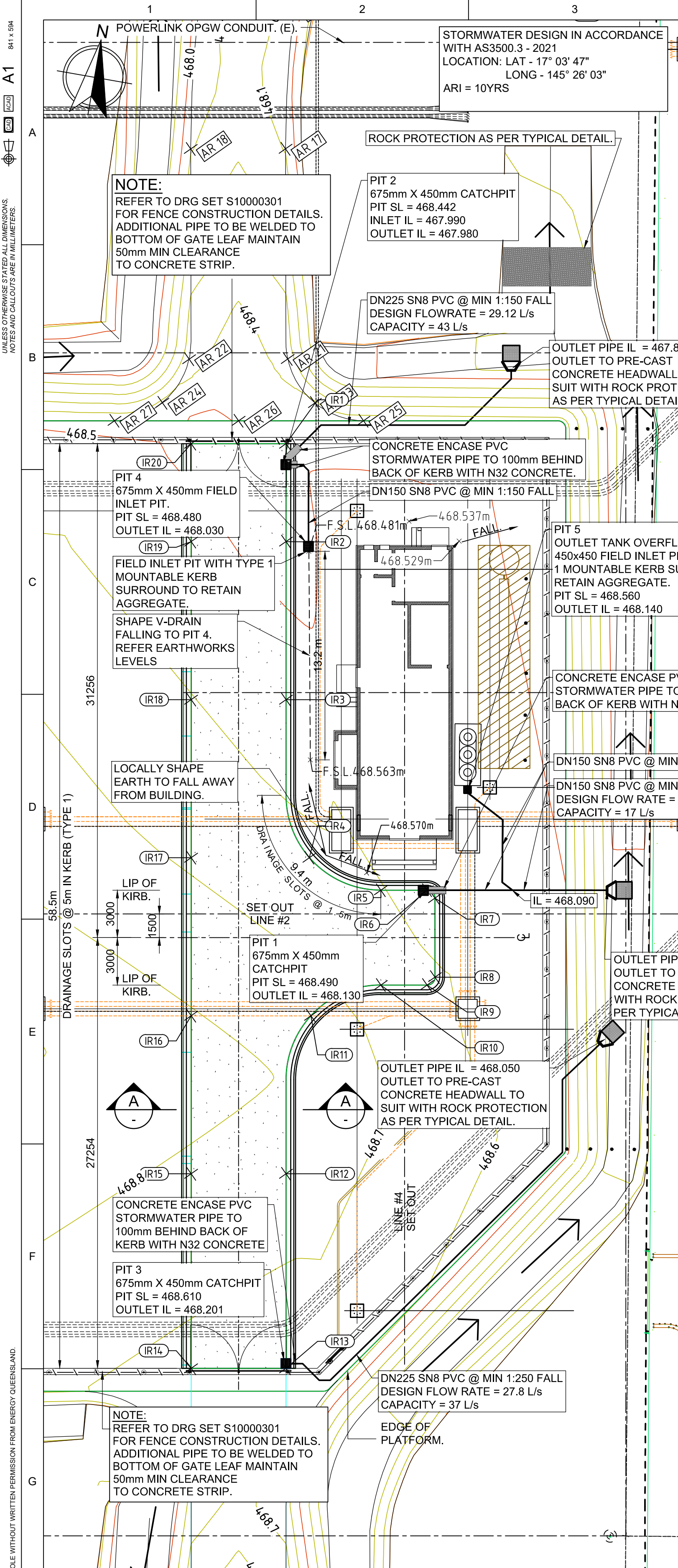
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Document Set ID: 4459323
Version: 1, Version Date: 17/02/2025



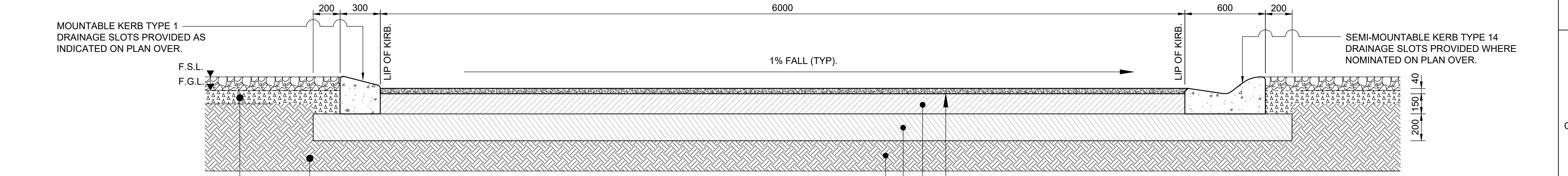
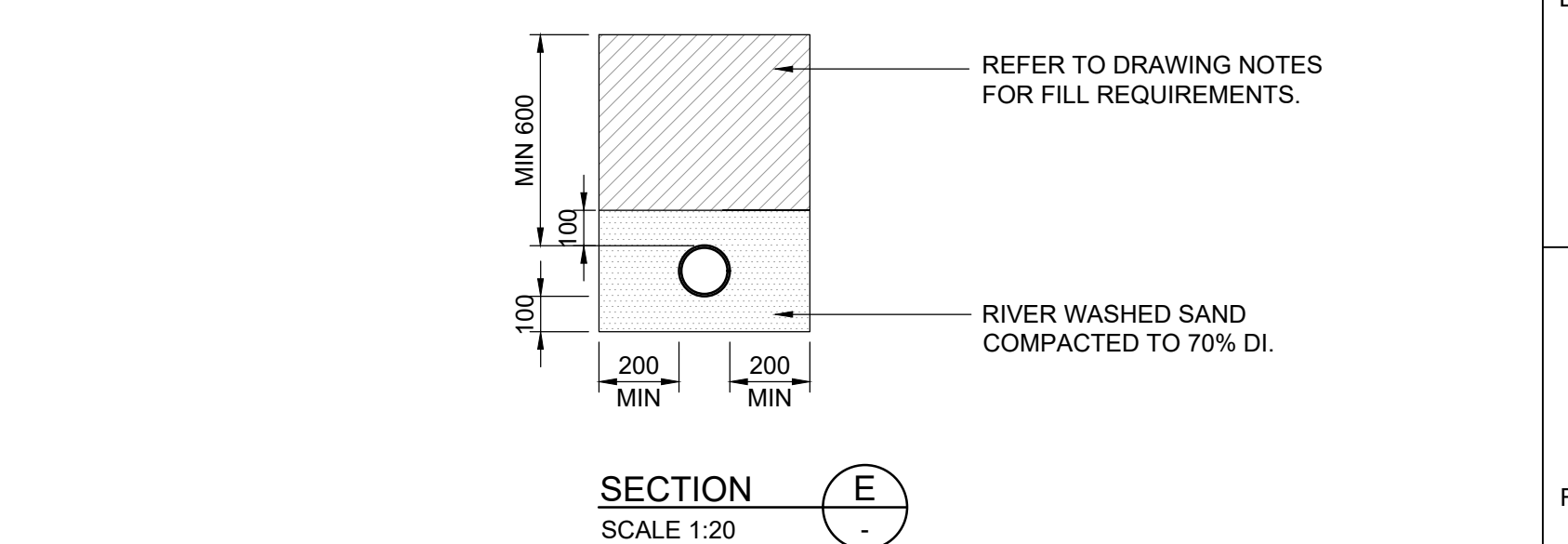
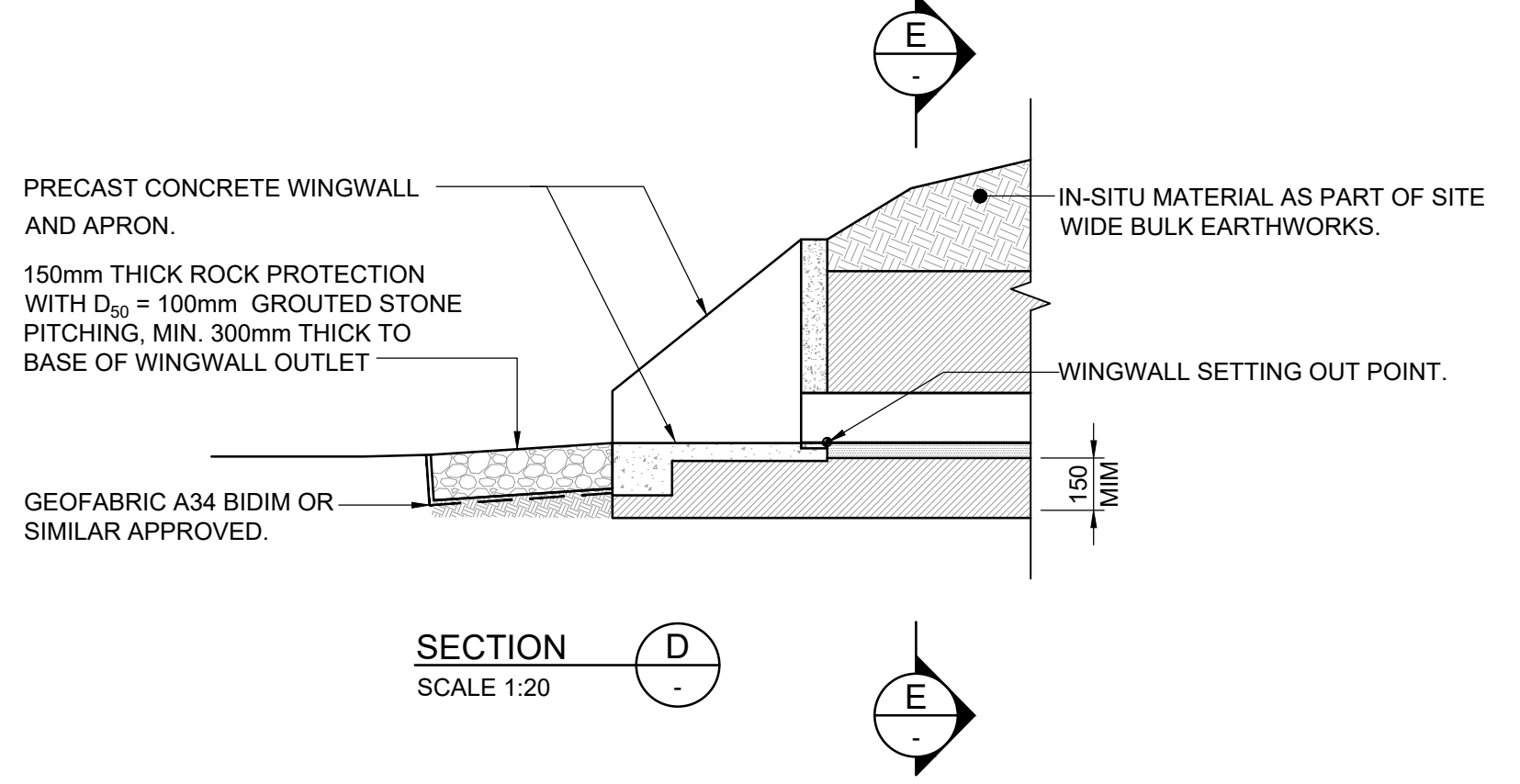
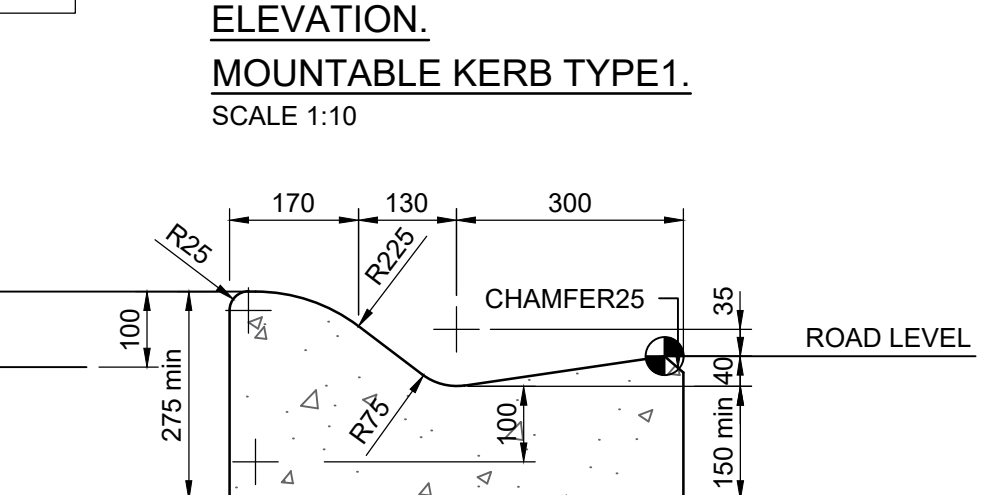
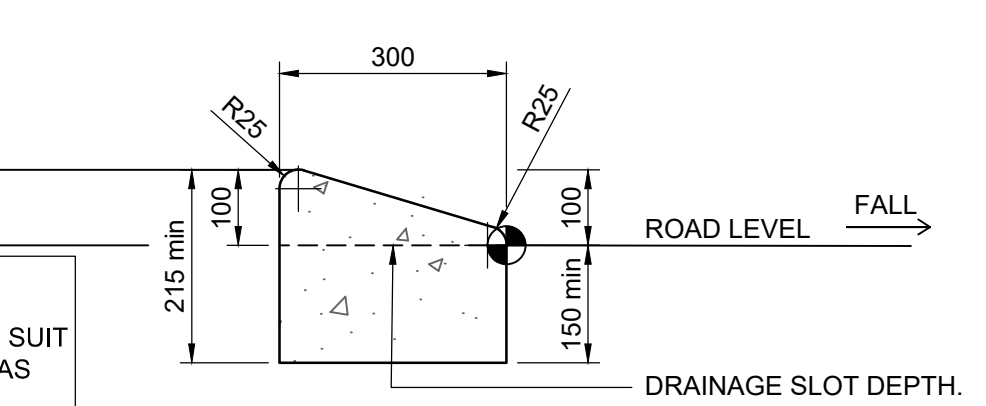
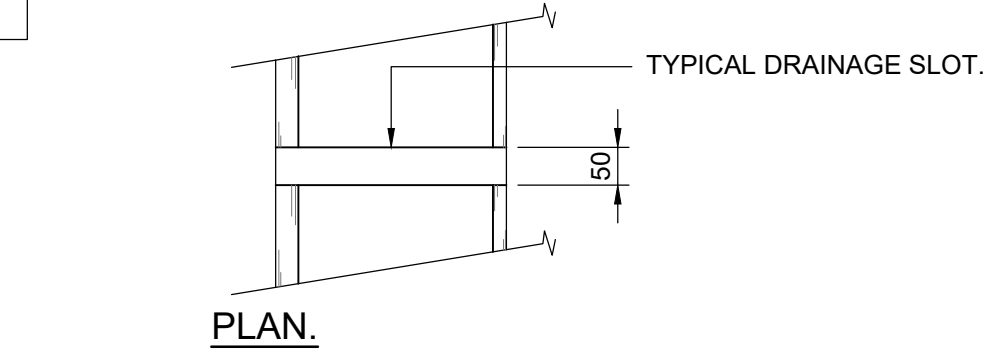
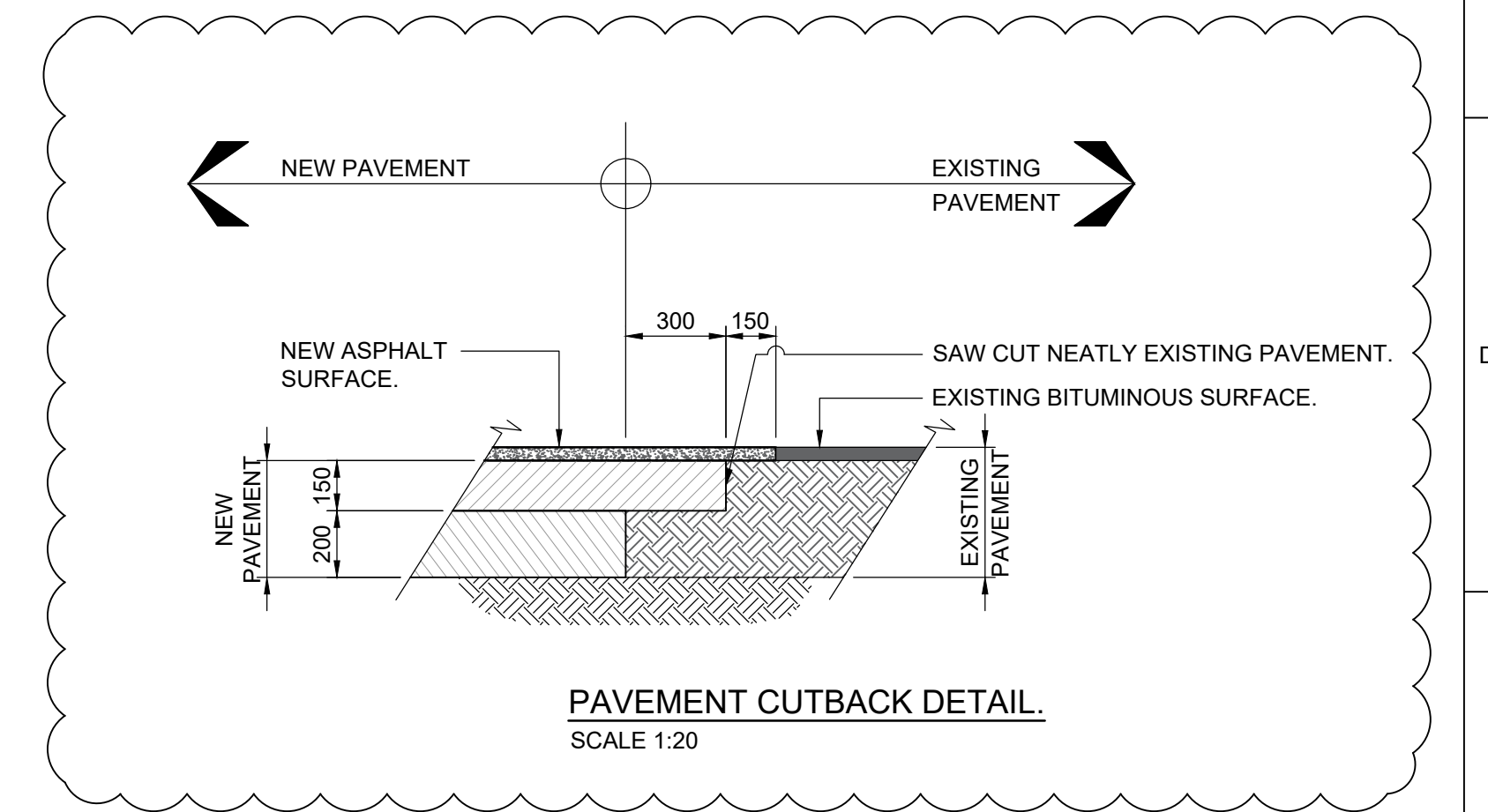
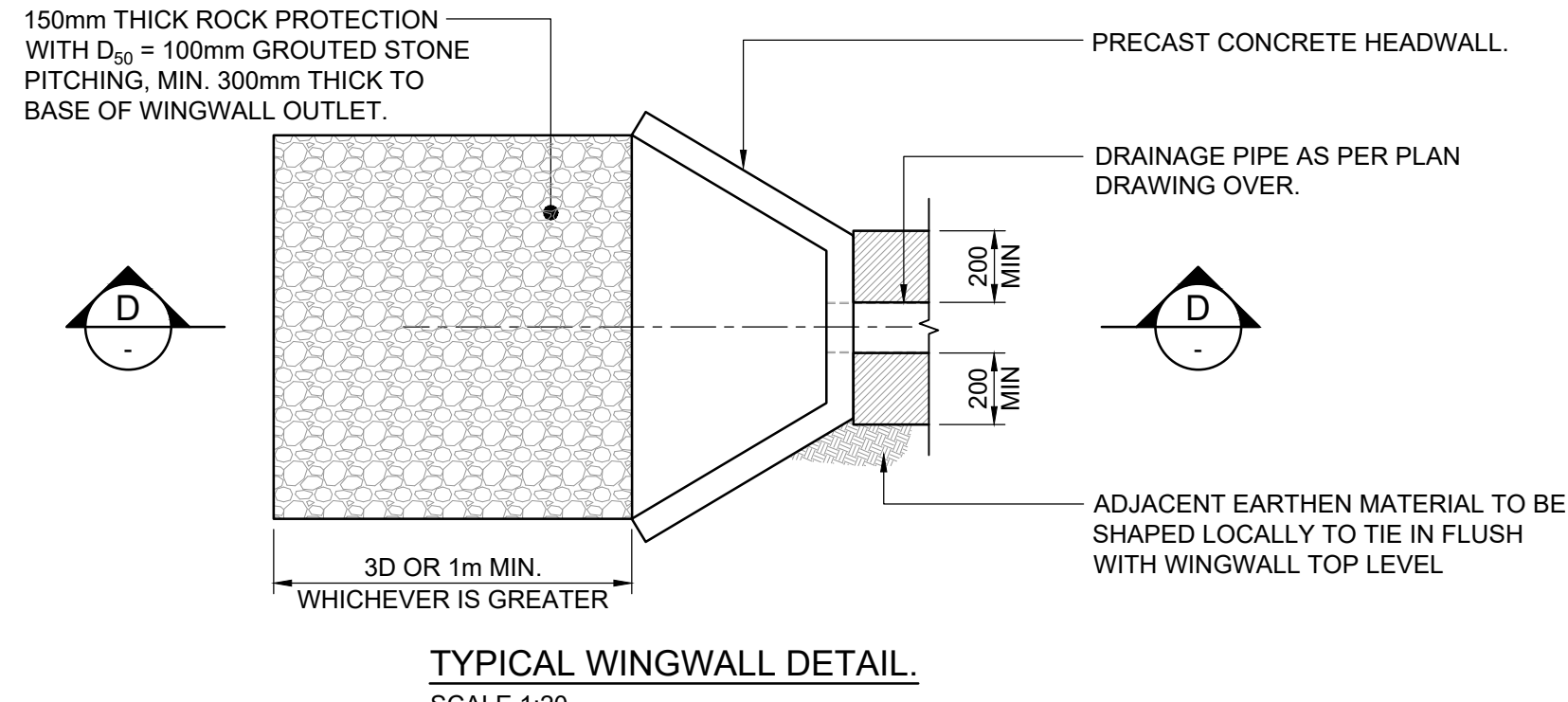
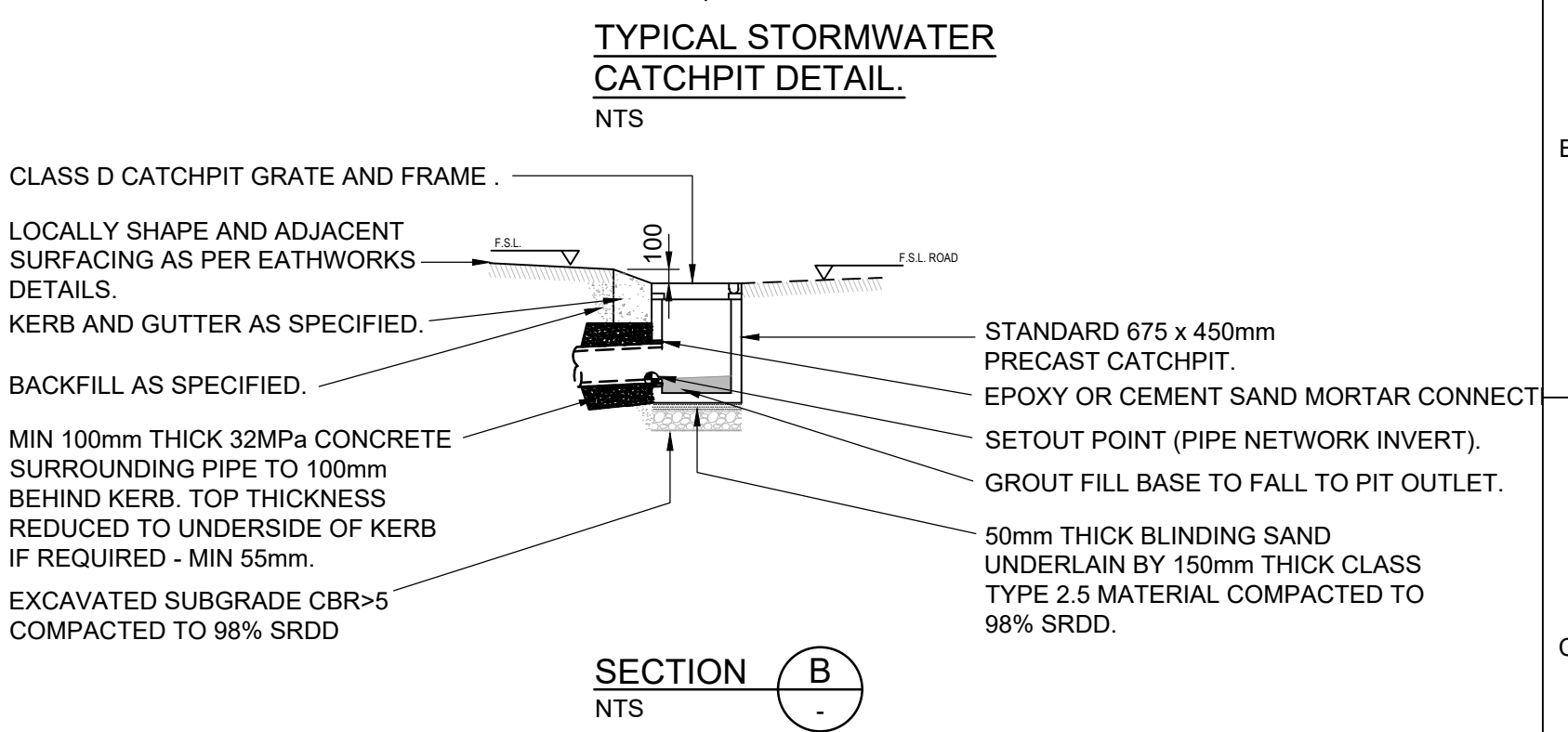
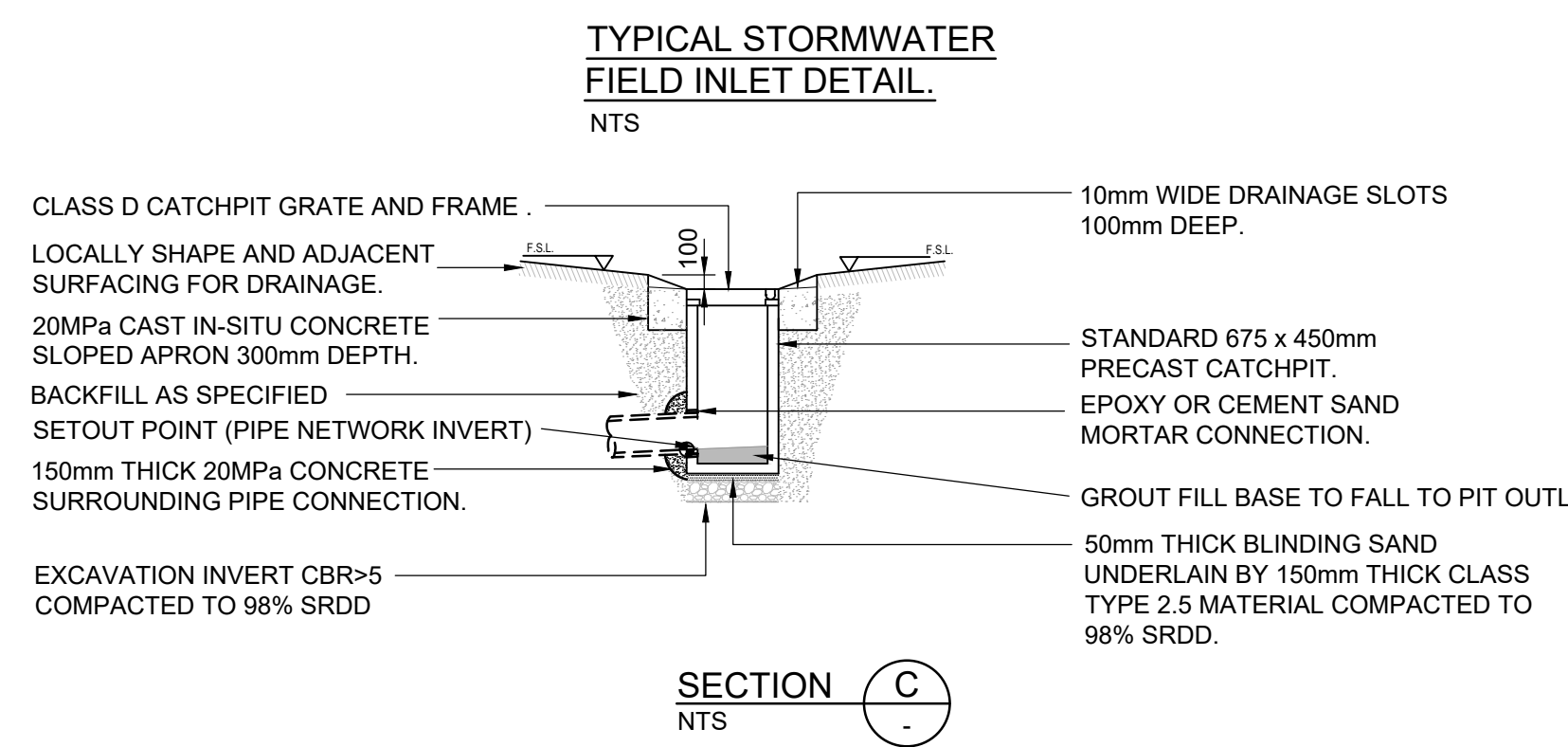
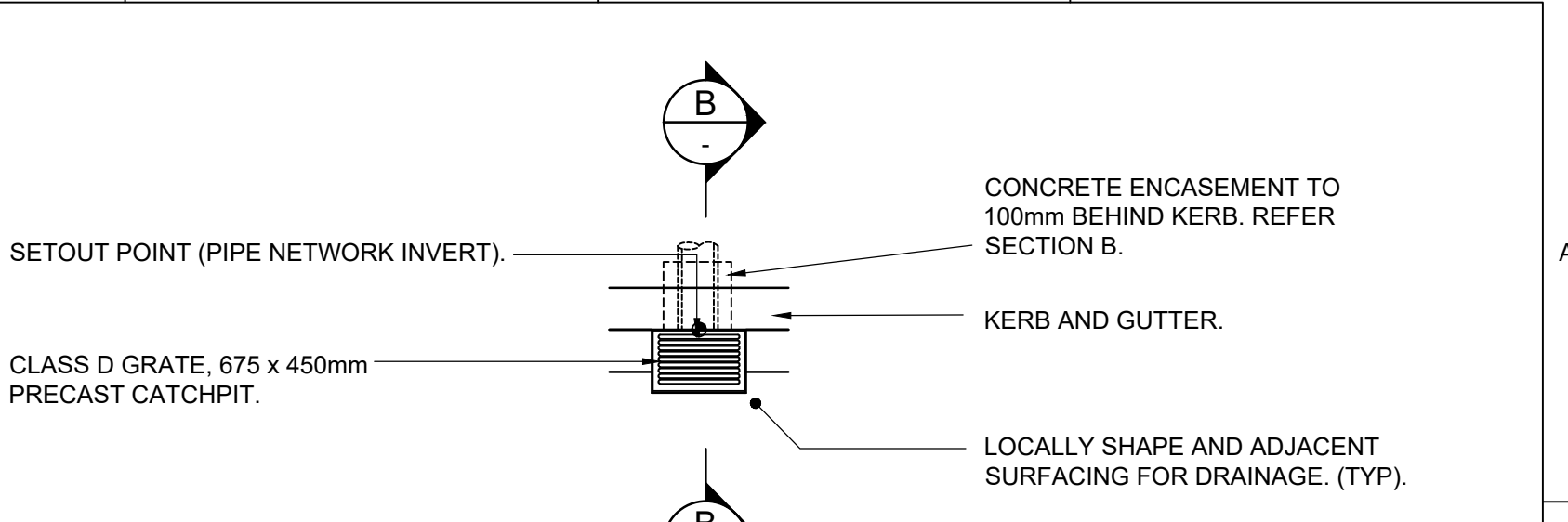
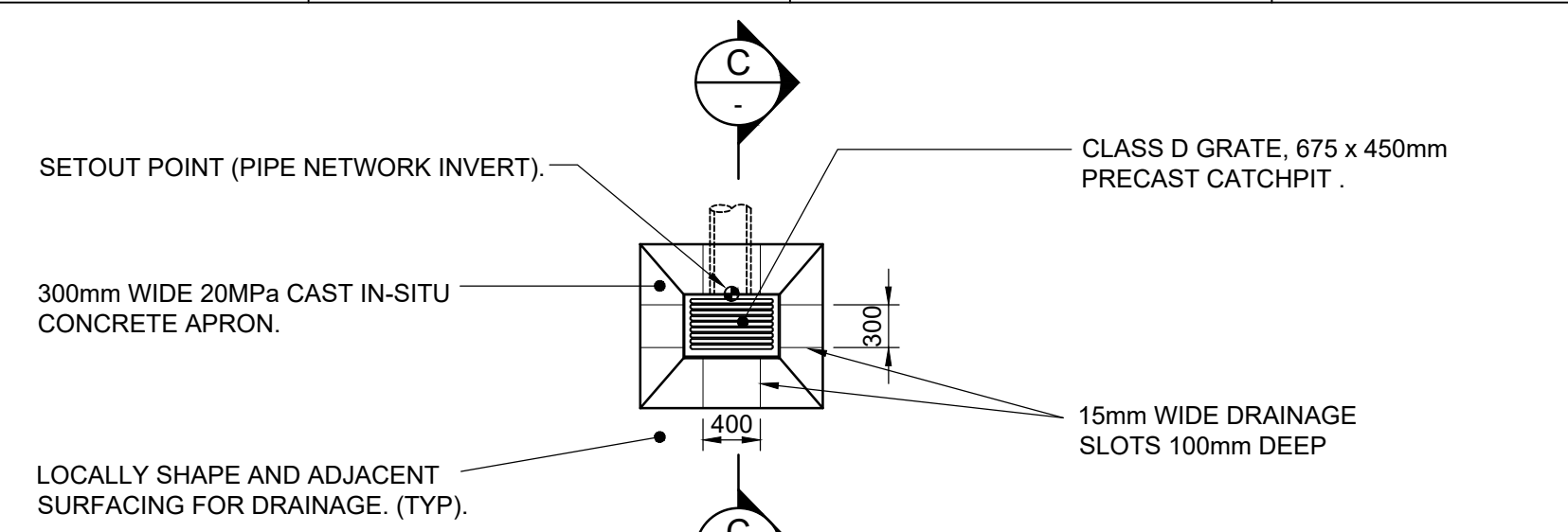
NOTE:
ALL ELEVATIONS LEVELS NOMINATE FINISHED
SURFACE LEVEL OF THE EARTHWORKS BASE COURSE.

								<div>AS BUILT DRAWING STAMP</div> <div>I CERTIFY THAT THE MARK UPS ON THIS DRAWING REPRESENT A TRUE AND ACCURATE REPRESENTATION OF ALL DEPARTURES FROM THE LOCATIONS, LEVELS, SIZE AND MATERIALS THAT OCCURRED DURING CONSTRUCTION FROM OF THE "WORK MAY START" DRAWINGS.</div> <div><div>COMPANY NAME:</div><div>CONSTRUCTION SUPERVISOR NAME:</div><div>SIGNATURE:</div><div>DATE:</div><div>MOBILE PHONE NUMBER:</div></div> <div><div>TBA</div><div>TBA</div><div>TBA</div><div>TBA</div><div>TBA</div></div>				<div><div><div><div><div></div><div>Part of Energy Queensland</div></div><div><div><div></div><div>energenx</div></div></div></div></div></div>		<div><div>DOCUMENT CONTROL</div><div><div><div>Drawn</div><div>A.BRIAN</div></div><div><div>Date</div><div>06/12/24</div></div><div><div>Checked</div><div>M.CROW</div></div><div><div>Date</div><div>06/12/24</div></div><div><div>Approved</div><div>M.CROW</div></div><div><div>Date</div><div>06/12/24</div></div><div><div>Approved</div><div>####</div></div><div><div>Date</div><div>####</div></div></div></div>		<div><div>TUWE TURKINJE WEST SUBSTATION</div><div>CIVIL WORKS - 66KV ASSET REPLACEMENT</div><div>SITE EARTHWORKS</div><div>PLAN, SECTIONS AND DETAILS</div></div>				<div><div><div>Drawing Status</div><div>Released For Construction</div></div><div><div><div>Project Number</div><div>WR1339630</div></div><div><div><div>10017002-06</div><div>Revision</div><div>A</div></div></div><div><div>Scale</div><div>AS SHOWN</div></div></div></div>			
A	ORIGINAL ISSUE				A.B	M.C	M.C	06/12/24															
REV	DESCRIPTION				DRN	CHK	APPR	DATE															



NOTE:
ALL ELEVATIONS LEVELS NOMINATE FINISHED SURFACE LEVEL OF THE EARTHWORKS.

LIP OF KIRB INTERNAL ROAD SETOUT			
POINT	EASTINGS	NORTHINGS	ELEVATION
IR1	333394.32	8112822.23	468.474
IR2	333395.40	8112816.14	468.511
IR3	333397.13	8112806.29	468.548
IR4	333400.32	8112796.69	468.627
IR5	333405.13	8112795.45	468.605
IR6	333408.01	8112795.96	468.570
IR7	333408.59	8112795.55	468.566
IR8	333409.45	8112790.63	468.612
IR9	333409.05	8112790.05	468.621
IR10	333406.17	8112789.54	468.660
IR11	333402.15	8112786.86	468.736
IR12	333402.33	8112776.74	468.746
IR13	333404.46	8112764.62	468.647
IR14	333398.55	8112763.58	468.674
IR15	333396.42	8112775.70	468.778
IR16	333394.68	8112785.55	468.799
IR17	333392.95	8112795.40	468.688
IR18	333391.22	8112805.25	468.603
IR19	333389.49	8112815.10	468.527
IR20	333388.42	8112821.20	468.484



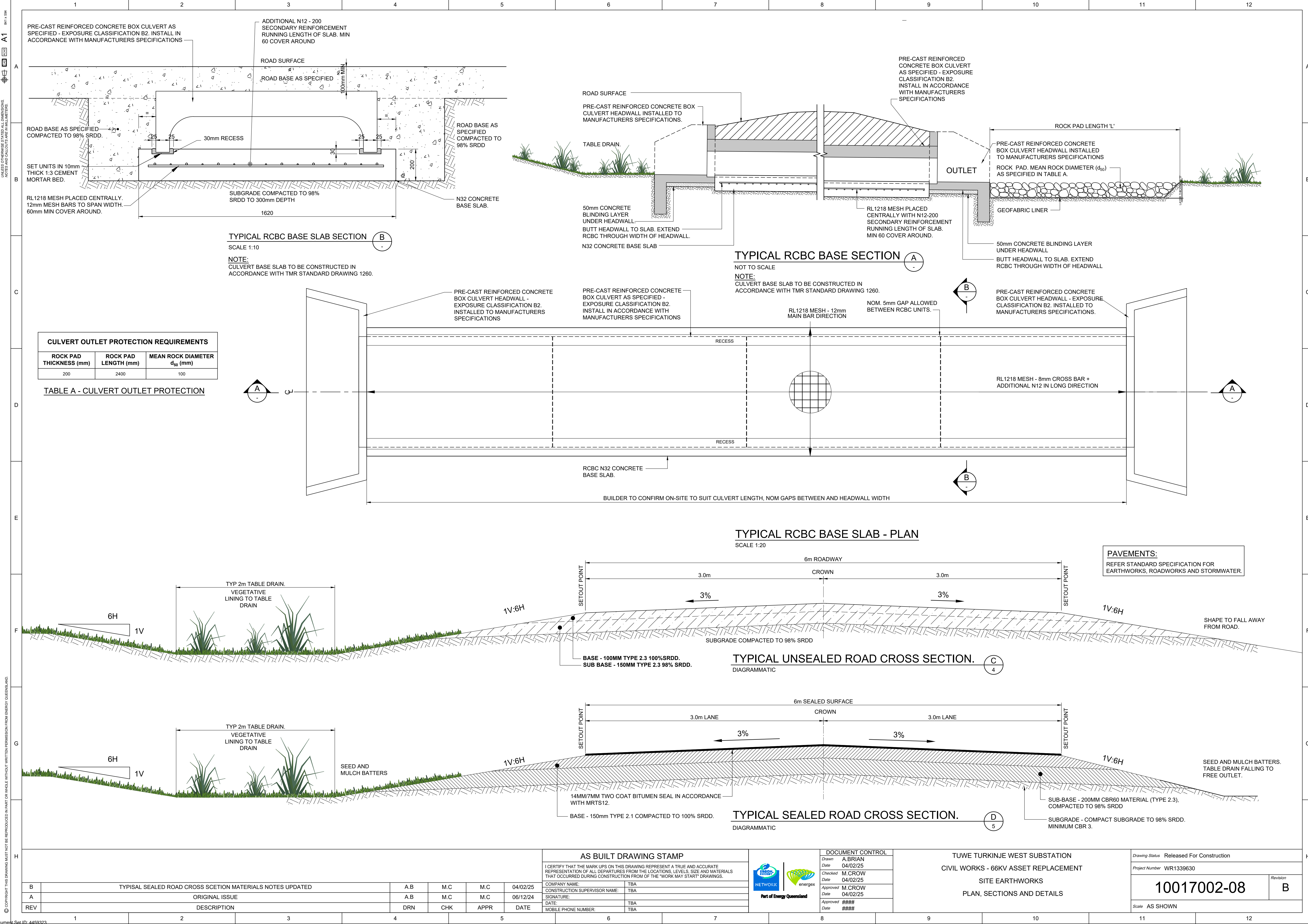
PLACE 100MM CBR45 MATERIAL (TYPE 2.3), COMPACTED TO 98% SRDD

PLACE 200MM OR MORE OF CBR15 MATERIAL (TYPE 2.5), REFER TO NOTES FOR COMPACTED.

NOTE:

- MINIMUM 100MM OF NATURAL SURFACE IS TO BE STRIPPED.
- REMOVE ANY DELETERIOUS, SOFT, WET OR HIGHLY COMPRESSIBLE MATERIAL OR MATERIAL RICH IN ORGANICS OR ROOT MATTER.

AS BUILT DRAWING STAMP				DOCUMENT CONTROL				TUWE TURKINJE WEST SUBSTATION				Drawing Status Released For Construction			
I CERTIFY THAT THE MARK UPS ON THIS DRAWING REPRESENT A TRUE AND ACCURATE REPRESENTATION OF ALL DEPARTURES FROM THE LOCATIONS, LEVELS, SIZE AND MATERIALS THAT OCCURRED DURING CONSTRUCTION FROM OF THE "WORK MAY START" DRAWINGS.				Drawn A.BRIAN				CIVIL WORKS - 66KV ASSET REPLACEMENT				Project Number WR1339630			
CONSTRUCTION SUPERVISOR NAME: TBA				Date 04/02/25				PIPED STORMWATER PLAN, TYPICAL KERB AND INTERNAL ROAD				Revision B			
SIGNATURE: TBA				Date 04/02/25				PLAN, SECTIONS AND DETAILS				Scale AS SHOWN			
DATE: TBA				Date 04/02/25											
MOBILE PHONE NUMBER: TBA				Approved M.CROW											
				Date 04/02/25											
				Approved #####											
				Date #####											



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Version: 1, Version Date: 17/02/2025

CULVERT OUTLET PROTECTION REQUIREMENTS		
ROCK PAD THICKNESS (mm)	ROCK PAD LENGTH (mm)	MEAN ROCK DIAMETER d ₅₀ (mm)
200	2400	100

TABLE A - CULVERT OUTLET PROTECTION

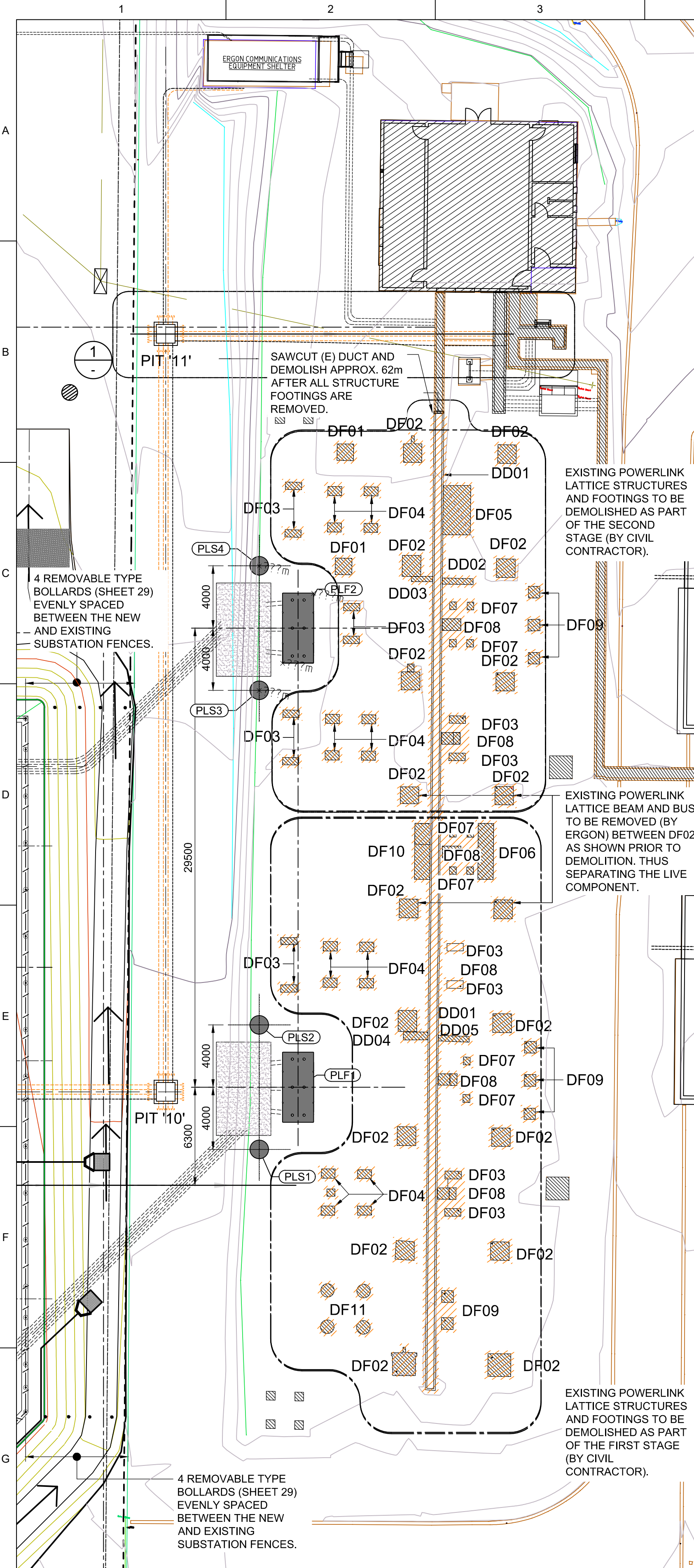
AS BUILT DRAWING STAMP				
I CERTIFY THAT THE MARK UPS ON THIS DRAWING REPRESENT A TRUE AND ACCURATE REPRESENTATION OF ALL DEPARTURES FROM THE LOCATIONS, LEVELS, SIZE AND MATERIALS THAT OCCURRED DURING CONSTRUCTION FROM OF THE "WORK MAY START" DRAWINGS.				
COMPANY NAME:	TBA			
CONSTRUCTION SUPERVISOR NAME:	TBA			
SIGNATURE:				
DATE:	TBA			
MOBILE PHONE NUMBER:	TBA			

DOCUMENT CONTROL	
Drawn	A.BRIAN
Date	04/02/25
Checked	M.CROW
Date	04/02/25
Approved	M.CROW
Date	04/02/25
Approved	####
Date	####

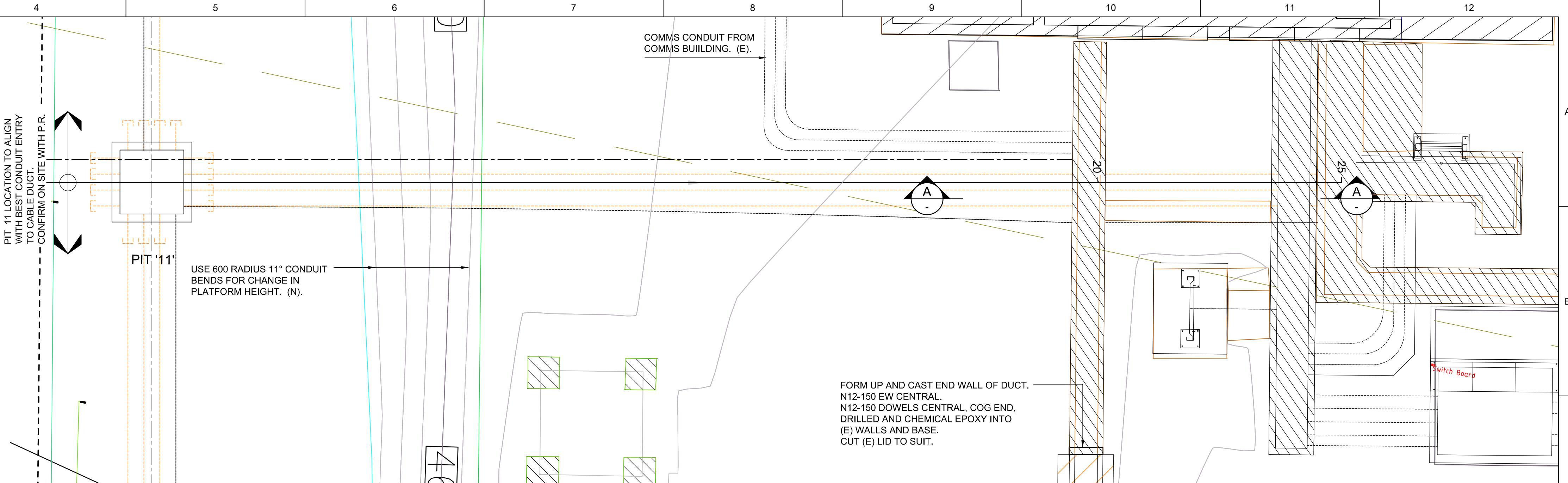
TUWE TURKINJE WEST SUBSTATION
CIVIL WORKS - 66KV ASSET REPLACEMENT
SITE EARTHWORKS
PLAN, SECTIONS AND DETAILS

Drawing Status	Released For Construction	
Project Number	WR1339630	
10017002-08		Revision B
Scale AS SHOWN		

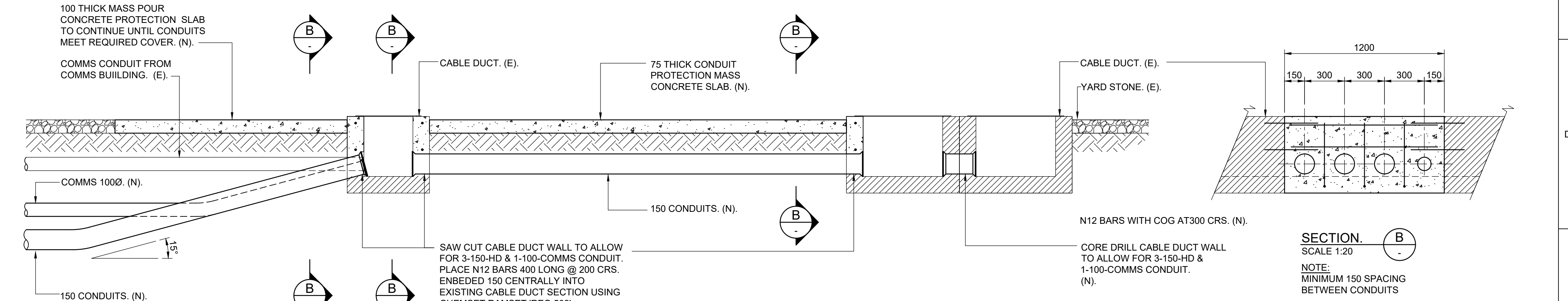
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Document Set ID: 4459323
Version: 1, Version Date: 17/02/2025



POWERLINK YARD WORKS
SCALE 1:200



DETAIL
SCALE 1:50



SECTION.
SCALE 1:20

LANDING SPAN POLE SET OUT			
L#	EASTINGS	NORTHINGS	
PLS1	333430.10	8112800.66	
PLS2	333428.72	8112808.53	
PLS3	333424.99	8112829.71	
PLS4	333423.61	8112837.59	

FOOTING SETOUT			
POINT	EASTINGS	NORTHINGS	ELEVATION
PLF1	333431.87	8112805.03	4.68.530
PLF2	333426.76	8112834.08	4.68.485

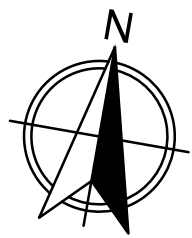
NOTE:
ALL ELEVATIONS LEVELS NOMINATE FINISHED SURFACE LEVEL OF THE EARTHWORKS.

STRUCTURE FOOTINGS		
FOOTING #	DESCRIPTION	DRAWING NUMBER
DF01	WAVE TRAP FILTER FOOTING	624-Z-101 (919490)
DF02	BUSBAR TRUSS FOOTING	FN-978071-01-0A
DF03	VT FOOTING	NO DRG FOUND
DF04	VT / CT FOOTING	FN-978071-01-0A
DF05	3 x OCB FOOTING	1065304-01
DF06	3xOCB FOOTING	NO DRG FOUND
DF07	CB FOOTING	624-Z-26665A1
DF08	CIRCUIT BREAKER CONTROL BOX FOOTING	No Drg Found
DF09	CT FOOTING / OCB FOOTING	NO DRG FOUND
DF10	-	NO DRG FOUND
DF11	CT/VT FOOTING	624-Z-26665A1

CONCRETE PROTECTION AND DUCTS		
FOOTING #	DESCRIPTION	DRAWING NUMBER
DD01	MAIN CONDUIT DUCT	624-Z-B104 (952763)
DD02	CONDUIT PROTECTION SLAB	
DD03	CONDUIT PROTECTION SLAB	
DD04	CONDUIT PROTECTION SLAB	
DD05	CONDUIT PROTECTION SLAB	

AS BUILT DRAWING STAMP I CERTIFY THAT THE MARK UPS ON THIS DRAWING REPRESENT A TRUE AND ACCURATE REPRESENTATION OF ALL DEPARTURES FROM THE LOCATIONS, LEVELS, SIZE AND MATERIALS THAT OCCURRED DURING CONSTRUCTION FROM OF THE "WORK MAY START" DRAWINGS.				DOCUMENT CONTROL Drawn: A.BRIAN Date: 05/12/24 Checked: M.CROW Date: 06/12/24 Approved: M.CROW Date: 06/12/24 Approved: ##### Date: #####	TUWE TURKINJE WEST SUBSTATION CIVIL WORKS - 66KV ASSET REPLACEMENT POWERLINK YARD WORKS PLAN, SECTIONS AND DETAILS	Drawing Status: Released For Construction Project Number: WR1339630 10017002-09 Scale: AS SHOWN	Revision: A				
ORIGINAL ISSUE				AS BUILT DRAWING STAMP		DOCUMENT CONTROL					
CONSTRUCTION SUPERVISOR NAME: TBA				COMPANY NAME: TBA		Drawn: A.BRIAN					
SIGNATURE: TBA				DATE: TBA		Date: 05/12/24					
MOBILE PHONE NUMBER: TBA				DATE: TBA		Date: 06/12/24					
MOBILE PHONE NUMBER: TBA				DATE: TBA		Date: 06/12/24					

NOTE:
ALL ELEVATIONS LEVELS
NOMINATE FINISHED SURFACE
LEVEL OF THE EARTHWORKS.



FOOTING SET OUT				FOOTING SET OUT			
F #	EASTINGS	NORTHINGS	ELEVATION	F #	EASTINGS	NORTHINGS	ELEVATION
F1	333337.44	8112799.28	469.000	F23	333362.12	8112797.53	469.050
F2	333337.96	8112796.33	469.000	F24	333362.64	8112794.58	469.100
F3	333338.48	8112793.37	469.050	F25	333363.33	8112790.64	469.150
F4	333339.00	8112790.42	469.050	F26	333364.71	8112782.76	469.200
F5	333339.69	8112786.48	469.100	F27	333365.41	8112778.82	469.200
F6	333341.08	8112778.60	469.150	F28	333365.93	8112775.86	469.200
F7	333341.77	8112774.66	469.150	F29	333366.45	8112772.91	469.150
F8	333342.29	8112771.71	469.200	F30	333366.97	8112769.96	469.150
F9	333342.81	8112768.75	469.200	F31	333368.96	8112804.83	468.950
F10	333343.33	8112765.80	469.200	F32	333369.48	8112801.87	468.950
F11	333345.32	8112800.67	469.000	F33	333370.00	8112798.92	469.000
F12	333345.84	8112797.72	469.000	F34	333370.52	8112795.96	469.050
F13	333346.36	8112794.76	469.050	F35	333371.21	8112792.02	469.100
F14	333346.88	8112791.81	469.100	F36	333372.59	8112784.14	469.150
F15	333347.57	8112787.87	469.150	F37	333336.45	8112781.85	469.100
F16	333348.96	8112779.99	469.200	F38	333344.32	8112783.23	469.150
F17	333349.65	8112776.05	469.200	F39	333352.20	8112784.62	469.200
F18	333350.17	8112773.09	469.200	F40	333356.14	8112785.31	469.200
F19	333350.69	8112770.14	469.200	F41	333360.08	8112786.01	469.200
F20	333351.38	8112766.20	469.200	F42	333367.96	8112787.39	469.150
F21	333360.90	8112804.43	468.950	F43	333375.84	8112788.78	469.100
F22	333361.60	8112800.49	469.000				

FOOTING DETAILS			
ITEM	QTY	ITEM DESCRIPTION	FOOTING DRAWING REFERENCE
F1, F10, F30, F31	4	66kV SURGE ARRESTER	10017002-21
LS1, LS2, LS3, LS4, LS5, LS6, LS7, LS8, PL51, PL52, PL53, PL54	12	66kV 15.5m LANDING SPAN CONCRETE POLE	10017002-25
"F2,F12, F22, F32, F5, F15, F25, F35, F39, F41, F6, F16, F26, F36, F9, F19, F29"	17	66kV ISOLATOR	10017002-14
"F3, F13, F23, F33, F8, F18, F28"	7	66kV VT	10017002-15
"F4, F14, F24, F34, F40, F7, F17, F27"	8	66kV DEAD TANK CB	10017002-13
F11	1	66kV SINGLE CABLE TERM AND SA	10017002-17
"F20, F21 PLF1, PLF2"	4	66kV TWIN CABLE TERM AND SA	10017002-19
F37, F38, F42, F43	4	66kV HIGH BUS	10017002-11
L1, L2, L3, L4, L5	5	15m STEEL LIGHTNING MAST STRUCTURE	10017002-27
L6, L7	2	3m LIGHT POLE, STRAIGHT	10017002-28
P1, P2, P3, P4, P5, P6, P8, P10, P11	11	CONDUIT PIT AND MISC ITEMS	10017002-29 10017002-30
P7	1	CONTROL PIT 7	10017002-24
P9	1	AC BOARD PIT	10017002-23

LANDING SPAN SET OUT		
POINT	EASTINGS	NORTHINGS
LS1	333333.76	8112797.11
LS2	333341.64	8112798.50
LS3	333365.28	8112802.66
LS4	333373.16	8112804.04
LS5	333339.13	8112766.58
LS6	333347.01	8112767.97
LS7	333362.77	8112770.74
LS8	333370.65	8112772.13

PIT SET OUT		
PIT #	EASTINGS	NORTHINGS
P1	333343.29	8112789.14
P2	333345.36	8112777.32
P3	333366.92	8112793.29
P4	333369.00	8112781.48
P5	333382.68	8112796.06
P6	333384.76	8112784.25
P7	333401.89	8112799.45
P8	333411.85	8112789.00
P9	333409.76	8112800.84
P10	333423.55	8112803.26
P11	333415.12	8112851.22

NOTE:
REFER TO SHEET 09 FOR P10, P11 LOCATION.
P11 LOCATION IS RELIANT ON THE EXISTING OPGW
CONDUIT LOCATION. REFER TO DETAILS ON SHEET 09.

LIGHTNING/LIGHT FOOTING SET OUT		
L#	EASTINGS	NORTHINGS
L1	333354.76	8112793.19
L2	333355.39	8112774.01
L3	333379.98	8112785.44
L4	333399.49	8112818.83
L5	333410.80	8112803.05
L6	333405.17	8112786.52

YARD SET OUT		
POINT#	EASTINGS	NORTHINGS
S01-1	333361.08	8112757.24
S01-2	333351.29	8112812.92
S02-1	333329.83	8112780.68
S02-2	333416.28	8112795.89
S03-1	333397.96	8112806.88
S03-2	333413.92	8112809.69
S04-1	333401.93	8112822.30
S04-2	333408.49	8112785.00

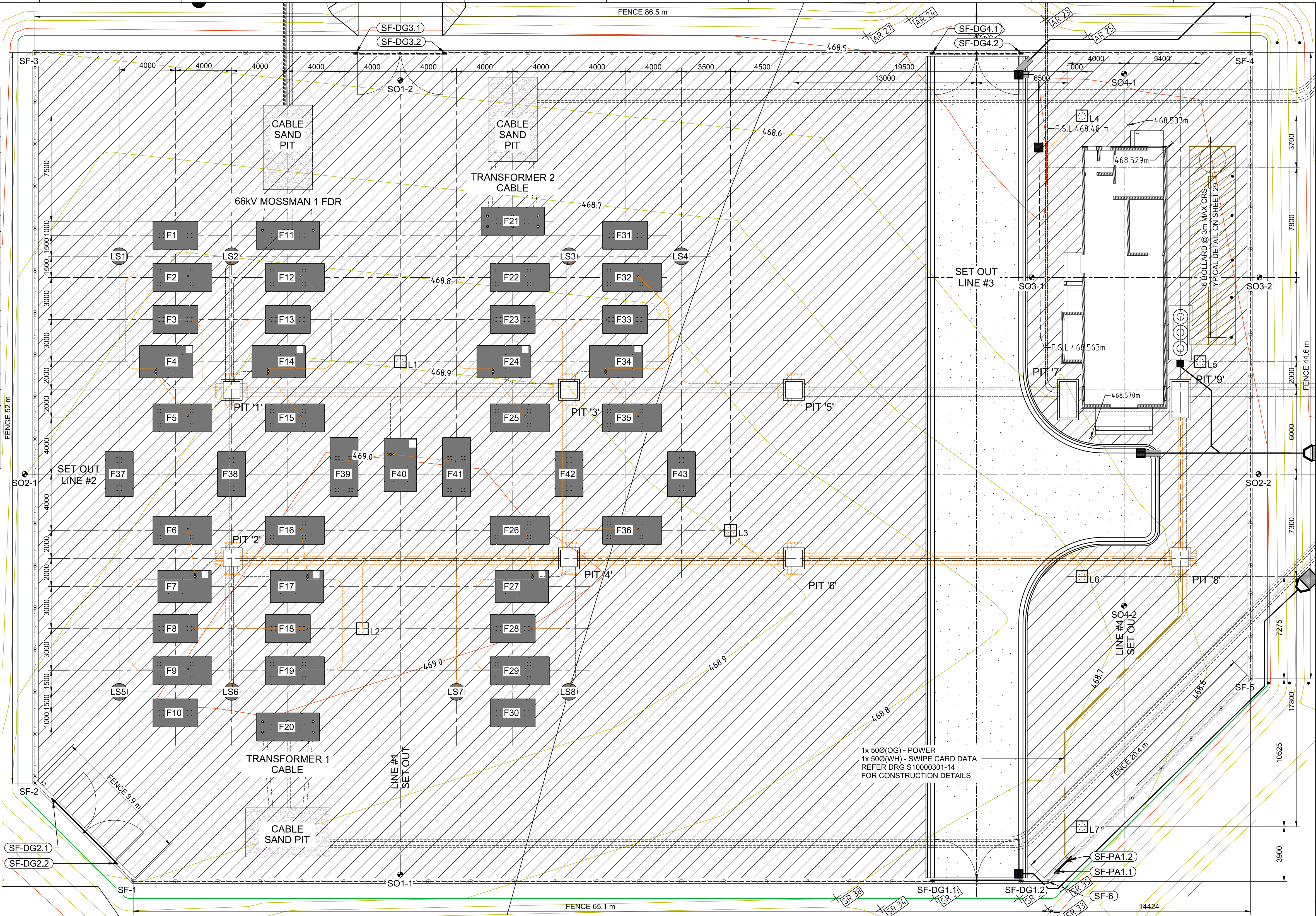
FENCE SET OUT		
POINT#	EASTINGS	NORTHINGS
SF-1	333342.45	8112753.46
SF-2	333334.35	8112759.14
SF-3	333325.34	8112810.36
SF-4	333410.53	8112825.34
SF-5	333418.25	8112781.44
SF-6	333406.55	8112764.73

FENCE SET OUT		
POINT#	EASTINGS	NORTHINGS
SF-DG1.1	333398.47	8112763.31
SF-DG1.2	333404.62	8112764.39
SF-DG2.1	333335.84	8112758.09
SF-DG2.2	333340.96	8112754.51
SF-DG3.1	333347.87	8112814.32
SF-DG3.2	333354.02	8112815.40

FENCE SET OUT		
POINT#	EASTINGS	NORTHINGS
SF-DG4.1	333388.25	8112821.42
SF-DG4.2	333394.40	8112822.50
SF-PA1.1	333407.12	8112765.55
SF-PA1.2	333407.81	8112766.53

NOTE:
REFER TO DRG SET S10000301
FOR FENCE CONSTRUCTION DETAILS.
ADDITIONAL PIPE TO BE WELDED TO
BOTTOM OF GATE LEAF MAINTAIN 50mm
MIN CLEARANCE TO CONCRETE STRIP.

LEGEND		
EXISTING	(E).	
NEW	(N).	
FENCE EXISTING.		
PROPERTY BOUNDARY.		
EXTENT OF STONE.		



AS BUILT DRAWING STAMP

I CERTIFY THAT THE MARK UPS ON THIS DRAWING REPRESENT A TRUE AND ACCURATE REPRESENTATION OF ALL DEPARTURES FROM THE LOCATIONS, LEVELS, SIZE AND MATERIALS THAT OCCURRED DURING CONSTRUCTION FROM OF THE "WORK MAY START" DRAWINGS.

COMPANY NAME:	TBA
CONSTRUCTION SUPERVISOR NAME:	TBA
SIGNATURE:	TBA
DATE:	TBA
MOBILE PHONE NUMBER:	TBA



DOCUMENT CONTROL

Drawn	A.BRIAN
Date	05/12/24
Checked	M.CROW
Date	06/12/24
Approved	M.CROW
Date	06/12/24
Approved	####
Date	####

TUWE TURKINJE WEST SUBSTATION

CIVIL WORKS - 66kV YARD

FOOTING LOCATION

SETOUT PLAN

Drawing Status Released For Construction

Project Number WR1339630

10017002-10

Revision

A

Scale AS SHOWN

GENERAL NOTES.

- DESIGN AND SETOUT HAS BEEN BASED ON DETAIL SURVEY CARRIED OUT BY
REFER BRAZIER MOTTI SURVEY PLAN No. 35960/001 REV A
2. SURVEY CO-ORDINATE SYSTEM - GDA2020, ZONE 55
3. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES TO AHD AND ALL
DIMENSIONS ARE IN MILLIMETRES.
4. FOR EXISTING SOIL CHARACTERISTICS REFER TO DOUGLAS PARTNERS
GEOTECHNICAL REPORT 77506 DATED FEBRUARY 2012
5. THE CONTRACTOR SHALL CONDUCT THEIR OWN "BYDA" ENQUIRIES AND
LOCATE ALL EXISTING SERVICES IN THE WORK AREA BEFORE
COMMENCING WORKS
6. PLANS HAVE BEEN PREPARED FROM A COMBINATION OF FIELD SURVEY
AND EXISTING RECORDS. SERVICES OTHER THAN THOSE SHOWN ON
THESE PLANS MAY EXIST AND PRIOR TO ANY DEMOLITION, EXCAVATION
OR CONSTRUCTION ON THE SITE, THE CONTRACTOR SHALL CONFIRM THE
LOCATION OF ALL SERVICES IN THE WORK AREA. THIS SHALL
INCORPORATE THE CONTRACTOR CARRYING OUT THEIR OWN DIAL
BEFORE YOU DIG INVESTIGATION AND CONSULTATION WITH RELEVANT
AUTHORITIES AS WELL AS ENGAGEMENT OF APPROPRIATELY QUALIFIED
CABLE LOCATORS TO LOCATE ALL SERVICES.
7. ALL NEW WORKS ARE TO MAKE SMOOTH JOUNCTION WITH EXISTING
CONDITIONS AND SUITABLE ALLOWANCE IS TO BE MADE FOR BUILDING
AND OTHER CONCURRENT WORKS DURING CONSTRUCTION.
8. WHERE THE CONTRACTOR PROPOSES TO USE PROPRIETARY MATERIALS
OTHER THAN THOSE SPECIFIED, THE CONTRACTOR SHALL SUBMIT
EVIDENCE THAT THE PROPOSED MATERIALS ARE EQUIVALENT TO THOSE
SPECIFIED TO THE PRINCIPAL'S REPRESENTATIVE FOR APPROVAL PRIOR
TO PROCUREMENT OF THE PROPOSED MATERIALS.
9. DIMENSIONS SHALL NOT BE SCALED FROM DRAWINGS.
10. ALL PROPRIETARY MATERIALS SHALL BE INSTALLED IN ACCORDANCE
WITH THE MANUFACTURER'S RECOMMENDATIONS.
11. ALL CONFLICTS IN DOCUMENTATION TO BE REFERRED TO THE PRINCIPAL
REPRESENTATIVE FOR DIRECTION BEFORE WORKS PROCEEDS.
12. TEMPORARY FENCING / BUNTING AND BUILDER'S AREA TO BE
DETERMINED ON-SITE WITH ERGON ENERGY REPRESENTATIVE.
13. ALL DIMENSIONS AND LEVELS SHALL BE VERIFIED ON-SITE PRIOR TO
COMMENCEMENT OF CONSTRUCTION WORK. DIMENSIONS SHALL NOT BE
SCALED FROM THE DRAWINGS.
14. THE METHOD OF CONSTRUCTION, STABILITY OF STRUCTURES AND
MAINTENANCE OF SAFETY DURING CONSTRUCTION IS THE
RESPONSIBILITY OF THE CONTRACTOR.
15. THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE PROJECT
SPECIFICATION.
16. UNO STANDS FOR "UNLESS NOTED OTHERWISE"
17. ANY DAMAGE CAUSED TO THE EXISTING SERVICES OR EXISTING ASSETS
WILL BE MADE GOOD AT THE CONTRACTORS EXPENSE.
18. THE LOCATION OF SITE SHEDS, SITE OFFICE AND AMENITIES BUILDING
WILL BE LOCATED TO SUIT TEMPORARY UTILITY SERVICES AND AS
GENERAL AGREED WITH THE PRINCIPAL.
19. ALL NEW WORKS SHALL BE JOINED NEATLY TO EXISTING AND UPON
DIRECTION FROM THE PRINCIPAL REPRESENTATIVE, LEVELS FOR
CONNECTION TO EXISTING WORKS MAY BE VARIED ON-SITE WHERE
NECESSARY TO ENSURE A SATISFACTORILY SMOOTH FINISH.
20. LAYOUT AND LEVELS PLANS SHALL BE READ IN CONJUNCTION WITH
LONGITUDINAL SECTIONS, CROSS SECTIONS AND DETAILS.

FOUNDATIONS.

1. THE DESIGN OF THE STRUCTURE HAS BEEN BASED ON THE FOUNDATION HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 100kPa.
2. NATURAL FOUNDATIONS AND FILL TO BE GRUBBED OUT AND FREE FROM ORGANIC MATTER AND DEBRIS AND COMPACTED TO A MINIMUM OF 98% STANDARD RDD.
3. FILL TO SLABS AND FOUNDATIONS SHALL BE OF AN APPROVED NON-PLASTIC MATERIAL MIN CBR 15 (UNO) & COMPACTED TO 98% SRDD. IN 200mm MAX LAYERS.
4. EXCAVATION SHALL BE KEPT FREE FROM WATER AT ALL TIMES BY BAILING AND PUMPING, IF NECESSARY. PARTICULARLY PRIOR TO CONCRETE. CONCRETE SHALL NOT BE PLACED IN WATER. THE TOP OF THE EXCAVATION SHALL BE PROPERLY COVERED TO PREVENT SURFACE WATER OR RAINFALL FROM ENTERING THE EXCAVATION.
5. REMOVE AND REPLACE ALL SOFT SPOTS WITH AN APPROVED FILL.
6. THE CONTRACTOR SHALL UNDERTAKE ALL EXCAVATIONS, FILLING, FOUNDATIONS AND PLATFORMS AS REQUIRED TO COMPLETE THE WORKS.
7. ALL EARTHWORKS AND TRENCHING MUST BE IN ACCORDANCE WITH THE ERGON ENERGY PERMIT TO DIG AND THE APPROPRIATE SWMS.
8. COMPACTION:
GENERAL FILL SHALL BE PLACED IN LOOSE LAYERS NOT EXCEEDING 200MM, AND SHALL BE CONTROLLED TO LEVEL 1 SUPERVISION WITH DOCUMENTATION PROVIDED CONFIRMING THIS. SUBGRADES AND GENERAL FILL SHALL BE COMPACTED TO THE FOLLOWING MINIMUM STANDARDS:

COHESIVE SOILS:

UNDER BUILDING, FOOTINGS AND ROADS 98% OF STANDARD RELATIVE DRY DENSITY OBTAINED IN ACCORDANCE WITH AS1289 E5.7.1 - ELSEWHERE 95% OF STANDARD RELATIVE DRY DENSITY UNO.

COHESIONLESS SOILS:

UNDER BUILDINGS, FOOTINGS OR ROADS A MINIMUM DENSITY INDEX OF 75%. ELSEWHERE A MINIMUM DENSITY INDEX OF 70%. THE DENSITY INDEX IS A PERCENTAGE OF THE STANDARD MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH AS1289 E5.1 UNO.

CONCRETE WORKS:

CONCRETE	GRADE	SLUMP	MAX. AGG.	TESTING
SLAB ON GROUND, FOOTING, BORED PIER	N32	80 ± 15	20	REFER TO PROJECT SPECIFICATION
200 C.M.B. CORE FILLING	N20	230 ± 15	10	

- UNO, COVER TO REINFORCEMENT SHALL BE: (i). PIER 75mm BTM & SIDES (ii). WITHIN CONCRETE MASONRY BLOCK 20mm (iii). SLAB ON GROUND 40mm TOP, 50mm BTM & SIDES. (v). OTHER 50mm (vi). CONDUIT PENETRATIONS 50mm
2. REINFORCEMENT SHALL BE SUPPORTED ON APPROVED PLASTIC, PLASTIC TIPPED WIRE OR 12mm 'Z'/'C' SHAPED CHAIRS AS FOLLOWS:
- (i). 'N' BARS UP TO N12 AND FABRIC 800mm CENTRES
(ii). 'N' BARS N16 AND LARGER 1200mm CENTRES
3. LAPS UNLESS OTHERWISE NOTED (UNO) FABRIC - 25mm + 2 BAR LAP
N12 - 500mm N20 - 800mm N28 - 1400mm
N16 - 650mm N24 - 1200mm
4. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
5. ALL EXPOSED SURFACES SHALL BE SPRAYED WITH ALPHATIC ALCOHOL AFTER THE INITIAL SET. FLOORS, SLABS AND OTHER EXTENSIVE SURFACES ARE TO BE COVERED WITH A CLEAR POLYTHENE LAYER AND A 50mm LAYER OF SAND AS SOON AS THE CONCRETE HAS HARDENED AND SHALL BE KEPT CONTINUOUSLY WET FOR A PERIOD OF NOT LESS THAN 10 DAYS OR ALTERNATIVE APPROVED CURING METHOD.
6. SUPPLY AND LAY CONCRETE IN ACCORDANCE WITH AS3600.
7. SUPPLY AND LAY DAMP PROOF COURSE BARRIER AND 50mm SAND IN ACCORDANCE WITH AS2870 TO CONTINUOUSLY UNDERLAY THE FOOTING SLAB. U.N.O.
8. FOOTINGS TO BE CAST WITHOUT CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED.
9. CHAMFER ALL EXPOSED EDGES 20mm X 20mm.
10. PROVIDE EARTHING RECESSES WHERE REQUIRED ON DRAWINGS.
11. BLOCKWORK STARTERS AND HOLD DOWN BOLTS SLAB SHALL BE HELD IN PLACE SECURELY BY A TEMPLATE OR BY FIXING TO THE LONGITUDINAL REINFORCEMENT TO ENSURE BARS DO NOT MOVE DURING THE CONCRETE POUR.
12. CONCRETE FORMWORK IN ACCORDANCE WITH AS 3610, EXPOSED CONCRETE SURFACES TO BE CLASS 3 EXTERNALLY, CLASS 2 INTERNALLY, TRUE & FREE OF BLEMISHES & IMPERFECTIONS.
13. ALL CONCRETE SHALL BE READYMIX AND SHALL COMPLY WITH AS1379.
14. CONSTRUCTION JOINTS SHALL BE SCABBLED, CLEANED AND COATED WITH A CEMENT/WATER SLURRY IMMEDIATELY PRIOR TO PLACING CONCRETE.
15. CONCRETE SHALL BE COMPACTED USING MECHANICAL VIBRATORS.
16. NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS UNLESS APPROVED BY THE CERTIFYING ENGINEER.
17. CONCRETE FINISHES AS FOLLOWS:
- INTERNAL SLAB STEEL TROWEL.
- EXTERNAL SLAB LIGHT BROOM.
18. THE CONTRACTOR SHALL SUPPLY AND CONSTRUCT ALL CONCRETE TO COMPLETE THE WORKS AND TO MEET THE PERFORMANCE REQUIREMENTS OF THE PROJECT DOCUMENTS.
19. ALL CONCRETE AND FOUNDATIONS AND REINFORCEMENT SHALL BE INSPECTED BY THE CERTIFYING ENGINEER PRIOR TO CASTING CONCRETE. CONCRETE SHALL NOT BE DELIVERED TO SITE UNTIL FINAL APPROVAL HAS BEEN OBTAINED FROM THE CERTIFYING ENGINEER.
20. ANY CONCRETE PLACED OR TRENCHED FILLED WITHOUT PRIOR INSPECTION AND APPROVAL OF THE TECHNICAL REPRESENTATIVE AS REQUIRED IN THIS SPECIFICATION SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
21. ALL CONCRETE FOUNDATIONS SHALL BE KEPT FREE OF WATER PRIOR TO POURING CONCRETE.

REINFORCEMENT

1. ALL REINFORCING BARS SHALL BE GRADE D500N TO AS4671 UNLESS NOTED OTHERWISE.
2. ALL MESH SHALL BE GRADE 500 TO AS4671 AND SHALL BE SUPPLIED IN FLAT SHEETS.
3. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
4. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN ON THE DRAWINGS OR IN POSITIONS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.
5. SITE BENDING OF REINFORCING BARS SHALL BE DONE WITHOUT HEATING. USE MECHANICAL BENDING TOOLS IN ACCORDANCE WITH AS3600.
6. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
7. AT ALL PENETRATIONS, REINFORCEMENT SHALL NOT BE CUT, BUT DISPLACED TO EACH SIDE OF OPENING.
8. REINFORCEMENT FOULING WITH EMBEDDED CONDUITS SHOULD NOT BE CUT OR REDUCED AND SHOULD BE ADJUSTED ACCORDINGLY TO SUIT ON-SITE.

STEEL WORK

- FABRICATION AND ERECTION OF ALL STEEL SHALL BE IN ACCORDANCE WITH:
- AS3990 STEELWORK FOR ENGINEERING APPLICATIONS
 - AS4100 STEEL STRUCTURES
 - AS1554 PARTS 1 AND 2
 - AS1101 PART 3
 - WHSQ STEEL CONSTRUCTION CODE OF PRACTICE
2. STEEL GRADES SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
- GENERAL STRUCTURAL STEEL 300MPA TO AS3679
 - PLATES 250MPA TO AS3678
 - CIRCULAR HOLLOW SECTION 250MPA TO AS1163
 - SQUARE HOLLOW SECTION 350MPA TO AS1163
 - 1.0mm THICK PURLINS & GIRTS 550MPA TO AS1397
 - 1.2mm THICK PURLINS & GIRTS 500MPA TO AS1397
 - 1.5-3mm THICK PURLINS AND GIRTS 450MPA TO AS1397
3. UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY:
- CLEATS, BRACKETS, STIFFENERS ETC 8 PLATE
 - BOLT HOLE CLEARANCE 2mm
 - HOLD DOWN BOLT CLEARANCE 4mm
 - GROUT A SPACE FOR 40mm OF APPROVED GROUT UNDER ALL BASE PLATES U.N.O.
 - 6mm END PLATES TO ALL HOLLOW SECTIONS (SEAL WELD)
 - CONNECTIONS MINIMUM OF 2-M16 8/S BOLTS
 - BRACING INTERSECTS ON CENTRELINES AND CENTRE OF GRAVITY FOR ANGLES U.N.O.
 - ALL WELDS SHALL BE 6mm CFW UNLESS NOTED OTHERWISE.
 - ALL STRUCTURAL STEEL, BOLTS, NUTS AND WASHERS TO BE HOT DIP GALVANIZED TO AS4680 AFTER FABRICATION UNLESS NOTED OTHERWISE. THE ZINC COATING SHALL CONSIST OF A UNIFORM LAYER OF COMMERCIAL PURE ZINC, FREE FROM ABRASIONS, CRACKS, BLISTERS, CHEMICAL SPOTS OR OTHER IMPERFECTIONS AND SHALL ADHERE FIRMLY TO THE SURFACE OF THE STEEL.
 - ALL BOLTS SHALL BE 8.8/S UNLESS NOTED OTHERWISE.
 - ALL BOLTS SHALL BE MANUFACTURED IN ACCORDANCE WITH AS1111.
 - ALL BOLTS SHALL BE HOT DIP GALVANIZED TO AS1214.
4. ALL BOLTS SHALL BE SUFFICIENT LENGTH TO EXCLUDE THE THREAD FROM THE SHEAR PLANE. A SUITABLE WASHER SHALL BE USED UNDER ALL NUTS. A MINIMUM OF 2 THREADS MUST BE VISIBLE ABOVE ALL NUTS.
5. WHEN TENSIONING IS SPECIFIED HIGH STRENGTH BOLTS SHALL BE FULLY TENSIONED WITH LOAD INDICATING WASHERS TO THE REQUIREMENTS OF AS4100.
6. BOLT LEGEND:
- | | |
|--------|---|
| 4.6/S | COMMERCIAL GRADE 4.6 BOLTS SNG TIGHTENED |
| 8.8/S | HIGH STRENGTH GRADE 8.8 BOLTS SNG TIGHTENED |
| 8.8/TB | HIGH STRENGTH GRADE 8.8 BOLTS TENSIONED BEARING CONNECTION |
| 8.8/TF | HIGH STRENGTH GRADE 8.8 BOLTS TENSIONED FRICTION CONNECTION |
7. ALL WELDING SHALL BE CARRIED OUT BY WELDERS HOLDING A CURRENT BOILER WELDER CERTIFICATE IN ACCORDANCE WITH THE REQUIREMENTS OF AS1796. A MIN. ELECTRODE CLASSIFICATION MMAW E48XX OR GMAW E54-GC/M-W50-XXX SHALL BE USED ON ALL WELDS.
8. FABRICATOR SHALL ALLOW FOR ALL CLEATS AND OTHER FIXINGS REQUIRED BY THE SUPERVISOR
9. BUILDER TO PROVIDE TEMPORARY BRACING TO SUPPORT ALL STEEL FRAMING
10. ALL STEEL MUST BE EARTHED TO THE REQUIREMENTS OF ERGON'S ELECTRICAL ENGINEERS
11. TWO SETS OF SHOP DRAWINGS SHALL BE SUPPLIED TO THE ENGINEER. FABRICATION SHOULD NOT COMMENCE UNTIL APPROVALS HAVE BEEN RECEIVED FROM THE ENGINEER
12. ALL STEELWORK SHALL BE CLEANED BY ABRASIVE BLAST TO SA 2.5. IN ACCORDANCE WITH AS 1627 PT. 4 OR CHEMICALLY DE-SEALED IN ACCORDANCE WITH AS 1627 PART 5 BY AN APPROVED IMMERSION BATH PROCESS AS APPROPRIATE TO THE FINAL FINISH.
13. GROUTING UNDER THE STEEL BASE PLATE SHALL CONFORM TO AS 4100 AND SHALL HAVE A MINIMUM STRENGTH OF 25MPA. THE SPACE FOR GROUTING SHALL BE NOMINALLY A MINIMUM OF 25MM AND A MAXIMUM OF 50MM.
14. THE STEEL SHALL BE PAINTED 300MM ABOVE AND FULLY BELOW THE CONCRETE SURFACE WITH TWO COATS OF DUREBILD STE. THE SURFACE OF THE CONCRETE SHALL BE SHAPED AND A DURABLE SEALANT USED AROUND THE STEEL SECTION TO MINIMISE WATER INGRESS.

RESTORATION OF GALVANIZING

RESTORATION OF GALVANIZED SURFACES AFTER WELDING IS TO BE BY PAINTING WITH ZINC RICH PAINT "JOTUN GALVANITE" OR SIMILAR AND APPROVED.
PROCEDURE AS FOLLOWS:

1. POWER TOOL CLEAN TO AS1627.2 CLASS 3 TO REMOVE ALL WELD SCALE/SLAG.
2. APPLY TWO COATS OF GALVANITE TO A MINIMUM DRY FILM THICKNESS OF 45 MICRONS PER COAT.
3. ADHERE TO MANUFACTURER'S DATA SHEET FOR SAFETY, WEATHER AND APPLICATION CONDITIONS, MIXING, POT LIFE, APPLICATION, SURFACE DRYNESS, OVER COATING AND CURING TIME.

CONDUITS:

1. ALL LOW VOLTAGE CONDUIT RADIUS BENDS CENTRELINE RADIUS TO BE 635mm MIN. REFER TO ERGON UNDERGROUND DRAWINGS FOR BENDING RADIUS OF HV CONDUITS.
2. COMPACTED BACKFILL IN MAX 200mm LAYERS TO 95% SRDD WITH IN THE YARD AND 98% SRDD UNDER STRUCTURES AND ROADWAYS. UNO.
3. COMPACT BEDDING SAND IN MAX 200mm LAYERS TO 70% D.I. AND 75% D.I. UNDER STRUCTURE AND ROADWAYS.
4. PROVIDE ACCURATE DEPTH AND LOCATION MEASUREMENTS OF ALL CONDUITS FOR AS CONSTRUCTED.
5. ALL CONDUITS TO BE (CLASS H.D.) ORANGE PVC ELECTRICAL IN ACCORDANCE WITH AS2053.
6. UNLESS OTHERWISE SPECIFIED ALL CONDUITS TO BE FITTED WITH ONE (1) 8mm DIAMETER SYNTHETIC DRAW ROPE.
7. ALL CONDUITS TO BE SEALED/FITTED WITH CAPS BEFORE CONCRETE POUR AND TO PREVENT INGRESS OF FOREIGN OBJECTS.
8. ALL CONDUITS TO HAVE 50mm MIN. PROJECTION ABOVE FSL OF CONCRETE. U.N.O.
9. ALL CONDUITS TO BE INSTALLED UNDER THE SUPERVISION OF A LICENSED ELECTRICIAN.



DEMOLITION WORKS

1. ALLOW TO DISCONNECT / REDIRECT / REMOVE ALL ELECTRICAL WORKS LOCATED IN THE AREAS TO BE DEMOLISHED PRIOR TO COMMENCING ANY DEMOLITION WORKS.
 2. ALL DRAINAGE / WATER SUPPLY LINES TO BE DISCONNECTED / CAPPED / RELOCATED PRIOR TO COMMENCING ANY DEMOLITION WORKS.
 3. ENSURE ASBESTOS REGISTER IS REVIEWED BEFORE WORKS COMMENCE.
 4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEMOLISHED MATERIAL FROM SITE.
 5. ALL SOIL SHALL BE REMOVED FROM EXCAVATED CONCRETE FOOTINGS ON SITE PRIOR TO DISPOSAL.
 6. ALL WORK SHALL MEET THE PERFORMANCE REQUIREMENTS OF AS2601.
- EXCAVATION (INSIDE OR DIRECTLY ADJACENT TO SUBSTATIONS)**
1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED SWMS FOR TRENCHING AND EXCAVATIONS AND POWERED MOBILE PLANT AND THE EQL STANDARD WORK PRACTICE (SWP) CIVIL WORKS INCLUDING EXCAVATION AND UNDERGROUND CABLES AND CONDUITS.
 2. SAFETY OBSERVER (SUPPLIED OR APPROVED BY EQL) TO BE PRESENT DURING ALL SUBSURFACE DIGGING.
 3. UNDERGROUND SERVICES ARE LOCATED ON DRAWINGS: TBC.
 4. NO EXCAVATION WORK SHALL BE STARTED ON SITE WITHOUT APPROVAL FROM THE EQL SAFETY OBSERVER TO START WORK.
 5. HYDRO-VAC EXCAVATION SHALL BE USED TO LOCATE ALL UNDERGROUND SERVICES IN THE WORK AREA AT SUFFICIENT INTERVALS TO POSITIVELY IDENTIFY THEIR LOCATION TO THE SATISFACTION OF THE EQL SAFETY OBSERVER AND THE CONTRACTOR PRIOR COMMENCING EXCAVATION WORKS.
 6. ONCE THE EXCAVATION AREA HAS BEEN PROVEN TO BE FREE OF SERVICES AND UPON APPROVAL FROM THE EQL SAFETY OBSERVER, USE OF A SMOOTH EDGE BUCKET OR AUGER IS PERMITTED.
 7. USE OF A MECHANICAL SAFETY OBSERVER WITHIN THE OR ADJACENT TO THE SUBSTATION CAN ONLY BE USED WITH THE FOLLOWING MEASURES:
 - a. NO UNDERGROUND OR OVERHEAD SERVICES EXIST IN THAT AREA OF THE YARD.
 - b. APPROVAL FROM THE EQL SAFETY OBSERVER.
 8. THE INFORMATION PROVIDED IN THIS DOCUMENT REPRESENTS THE BEST OF EQL'S KNOWLEDGE OF THE LOCATION AND EXISTENCE OF ALL UNDERGROUND SERVICES WITHIN THE SUBSTATION. HOWEVER, THE CONTRACTOR MUST EXCAVATE WITH CAUTION AS ACTUAL LOCATION AND EXISTENCE OF SERVICES CAN VARY FROM THE INFORMATION PROVIDED.
 9. NO SPOIL TO BE REMOVED FROM SITE WITHOUT APPROVAL FROM THE EQL ENVIRONMENTAL OFFICER. UNO.
 10. THE CONTRACTOR SHALL MONITOR ALL EXCAVATED MATERIAL FOR SIGNS OF CONTAMINATION (FOR EXAMPLE: SOIL WITH STRANGE SMELLS OR DISCOLORATION AND REPORT AND ISOLATE ANY SUSPICIOUS MATERIAL TO THE EQL ENVIRONMENTAL OFFICER.

H.D BOLTS.

1. HOT DIP GALVANISE ALL BOLTS TO AS 1214 AND BOLT CAGES TO AS 4680. ASSEMBLE AFTER GALVANISING.
2. BOLT PROJECTION ABOVE FSL OF CONCRETE TO BE 125mm.
3. BOLT THREADS TO BE COVERED WITH AN APPROVED TAPE BEFORE PLACEMENT OF CONCRETE. TAPE TO BE REMOVED & NUTS FITTED AFTER CURING.
4. HOLD DOWN BOLTS SHALL BE GRADE 4.6 N/S.
5. ALL HD BOLTS TO BE HELD SECURELY IN PLACE DURING THE CONCRETE POUR WITH A TEMPLATE.

B	NOTES UPDATES	S.B	M.C	M.C	25/11/24
A	ORIGINAL ISSUE	A.B	K.Y	K.Y	31/10/24
REV	DESCRIPTION	DRN	CHK	APPR	DATE

  <p>Part of Energy Queensland</p>		DOCUMENT CONTROL <i>Drawn</i> - <i>Date</i> - <i>Checked</i> - <i>Date</i> - <i>Approved</i> - <i>Date</i> - <i>Approved</i> ##### <i>Date</i> #####
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TUWE TURKINJE WEST SUBSTATION
CIVIL WORKS - 66kV YARD
CIVIL GENERAL NOTES

Drawing Status		Released For Construction	
Project Number		WR1339630	
10017002-31		Revision	B
Scale AS SHOWN			

GENERAL					EARTHWORKS					SEDIMENTATION & EROSION CONTROL					DRAINAGE:										
1. REFER 10017002-31 FOR GENERAL NOTES, SURVEY DETAILS, EXCAVATION NOTES AND STRUCTURAL NOTES AND LEGENDS.					1. ALL EARTHWORKS SHALL BE CARRIED OUT STRICTLY AS SPECIFIED IN AS3798 WITH GITA LEVEL 1 SUPERVISION, TESTING AND REPORTING.					1. THE CONTRACTOR MUST PREVENT RUNOFF WATER CARRYING CEMENT OR SILT FROM ENTERING PIPES OF DRAINS BOTH ON AND OFF SITE.					1. REFER TO THE STANDARD SUBSTATION CIVIL CONSTRUCTION AND EARTHWORKS, ROADWORKS AND STORMWATER STANDARD SPECIFICATIONS FOR CONSTRUCTION TOLERANCES										
2. REFER TO THE STANDARD SPECIFICATION FOR SUBSTATION CIVIL CONSTRUCTION AND EARTHWORKS, ROADWORKS AND STORMWATER FOR ADDITIONAL REQUIREMENTS.					2. AREAS HIGHLIGHTED ON DRAWINGS FOR GENERAL SURFACE RE-SHAPING SHALL HAVE TOPSOIL STRIPPED AND STORED ON SITE, SUBGRADE PREPARED AND THEN FILLED TO THE REQUIRED LEVEL WITH THE GENERAL FILL UNO.					2. USE BEST PRACTICE TO PROVIDE TEMPORARY AND PERMANENT MEASURES FOR THE CONTROL OF EROSION, SEDIMENTATION AND CONTAMINATION OF WATER ASSOCIATED WITH THE WORKS.					2. REINFORCED CONCRETE BOX CULVERTS SHALL BE MADE FROM HEAVY DUTY (MIN 50mPa) PRE-CAST CONCRETE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AS1597.1 (300mm-1200mm SPAN) AND AS1597.2 (> 1200mm SPAN).										
ENVIRONMENTAL & CULTURAL HERITAGE					3. ANY HOLES OR LOCALISED DEPRESSIONS IN THE GROUND SURFACE EVIDENT FOLLOWING CLEARING AND GRUBBING SHALL BE FILLED TO THE LEVEL OF THE SURROUNDING GROUND SURFACE. THESE AREAS SHALL BE PREPARED BY REMOVING VEGETATIVE MATERIAL AND THEN FILL PLACED IN A CONTROLLED MANNER. FILL MATERIAL SHALL BE THE GENERAL FILL UNO.					3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AS INDICATED ON THE CPESC CERTIFIED EROSION AND SEDIMENT CONTROL PLAN. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT.					3. REINFORCED CONCRETE BOX CULVERT BASE FOOTINGS SHALL BE MINIMUM CONCRETE GRADE N32, FORMED AND FINISHED TO MAINTAIN FALL BETWEEN NOMINATED INVERT LEVELS.										
1. AN ENVIRONMENTAL ASSESSMENT HAS BEEN CARRIED OUT BY ERGON FOR LOT 884 ON NR4531 AND LOT 84 SP332272. THE CONTRACTOR SHALL REFER TO THE ENVIRONMENTAL ASSESSMENT RESPONSE, WR1339630 DATED AUGUST 2024 AND INCORPORATE THE REQUIREMENTS AND RECOMMENDATIONS TO ALL SITE WORKS.					4. AREAS DESIGNATED TO BE "STRIPPED" ON THE STRIPPING AND CLEARING PLAN SHALL HAVE ALL UNSUITABLE MATERIAL, UNCONTROLLED FILL, TOPSOIL, ROOT ZONE, VEGETATION AND OTHER DELETERIOUS MATERIALS REMOVED SUCH TO EXPOSE THE NATURAL RESIDUAL SOILS FREE OF LOOSE, COMPRESSIBLE OR DEFORMING MATTER.					4. ALL SITE WORKERS SHALL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSTREAM AREAS.					4. EXCAVATE OPEN DRAINS AND GRADE EVENLY BETWEEN LEVELS SHOWN. BATTER SIDES AT 1V TO 4H.										
2. DISTURBANCE TO THE ENVIRONMENT SHALL BE KEPT TO A MINIMUM WITH CONSTRUCTION AND CLEARING WORKS CARRIED OUT ONLY WHERE REQUIRED AND APPROVED.					5. STRIPPINGS AND EXCESS MATERIAL SHALL BE STORED ON-SITE IN A DESIGNATED LOCATION FOR LATER RE-SPREADING AS MULCHING OVER DISTURBED AREAS.					5. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REGULARLY MAINTAINED AND THE LENGTH OF TRENCH OPENINGS MINIMISED. THE SEDIMENT SHALL BE STORED IN A SUITABLE AREA ON SITE UNTIL ERGON ENVIRONMENTAL PROVIDE CLEARANCE AND DIRECTION.					5. PROVIDE ROCK PROTECTION AT OUTLETS IN ACCORDANCE WITH DESIGN DRAWINGS										
3. SHOULD ANY SUSPECTED CULTURAL HERITAGE ITEMS BE UNCOVERED DURING SITE WORKS, THE CONTRACTOR SHALL STOP WORK IMMEDIATELY, DELINEATE THE AREA TO PREVENT ACCESS AND CONTACT THE PRINCIPALS REPRESENTATIVE FOR FURTHER DIRECTION.					6. WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS ONE IN FOUR (1:4), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL.					6. TOPSOIL AND SPOIL SHALL BE STOCKPILED IN NON-HAZARD AREAS AND PROTECTED FROM SURFACE RUNOFF BY DIVERSION DRAINS OR SIMILAR. STOCKPILES SHALL BE SUITABLY COMPACTED TO INHIBIT EROSION. WHERE THE STOCKPILING PERIOD EXCEEDS FOUR (4) WEEKS, THE STOCKPILE SHALL BE SEEDED TO ENCOURAGE VEGETATION GROWTH.															
SITE CLEARING					7. ALL BATTERS ARE TO BE SCARIFIED TO ASSIST WITH ADHESION OF TOPSOIL TO THE BATTER FACE.					7. TOPSOIL SHALL BE RE-SPREAD AND STABILISED AS SOON AS POSSIBLE UPON ACHIEVING FINAL LEVELS. DISTURBED AREAS SHALL BE LEFT WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST KEYING IN TOPSOIL.															
1. REFER ERGON ENVIRONMENTAL ASSESSMENT RESPONSE FOR SPECIFIC CLEARING REQUIREMENTS.					8. PROVIDE 150mm TOPSOIL WITH GRASS SEEDING ON ALL AREAS DISTURBED DURING CONSTRUCTION.					8. ALL DISTURBED AREAS SHALL BE REHABILITATED TO A STANDARD DEEMED ACCEPTABLE BY THE PRINCIPALS REPRESENTATIVE.															
2. THE CONTRACTOR SHALL CO-ORDINATE WITH ERGON ENERGY FOR ARRANGEMENT OF AN ECOLOGIST TO BE PRESENT DURING CLEARING OF WOODY VEGETATION.					9. U.N.O. ALL GENERAL FILL BENEATH PAVEMENTS AND STRUCTURAL PLATFORMS SHALL BE TMR TYPE 2.5 MATERIAL OR SELECT NON PLASTIC MATERIAL WITH PARTICLE SIZE NOT GREATER THAN 25mm AND APPROVED BY THE PRINCIPALS REPRESENTATIVE. THIS GENERAL FILL SHALL BE PLACED IN LOOSE LAYERS NOT EXCEEDING 150mm THICKNESS AND COMPACTED TO THE FOLLOWING: <div><div>a. COHESIVE SOILS: MINIMUM 95% SRDD OBTAINED IN ACCORDANCE WITH AS 1289 E 5.7.1.</div><div>b. COHESIONLESS SOILS: A MINIMUM DENSITY OF 70% OF THE STANDARD MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH AS 1289 E 5.1.</div></div> <div>IF COMPACTION CANNOT BE ACHIEVED OR HEAVING OCCURS, UNSUITABLE MATERIAL MUST BE RE-WORKED OR REMOVED AND REPLACED WITH SUITABLE MATERIAL THEN COMPACTED UNTIL THE REQUIRED SRDD IS ACHIEVED.</div>					9. GRASS COVER SHALL BE MAINTAINED WHEREVER POSSIBLE. PLANT, MACHINERY AND VEHICLES SHALL NOT BE DRIVEN OVER GRASSED AREAS UNLESS ON AN APPROVED HAULAGE ROUTE.															
3. CLEARED AND GRUBBED VEGETATIVE MATERIAL IDENTIFIED AS BEING SUITABLE FOR USE AS SITE WON MULCH SHALL BE SET ASIDE ON SITE, PROCESSED BY THE CONTRACTOR AND RE-SPREAD AS MULCH OVER DISTURBED SURFACES WHERE REQUIRED.					10. A QUARRY CERTIFICATE AND MATERIAL TEST DATA FOR IMPORTED MATERIALS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE PRINCIPALS REP. FOR APPROVAL PRIOR TO USE ON SITE. TEST RESULTS AND REPORTS SUBMITTED MUST BE SPECIFIC TO SAMPLES TAKEN FROM A REPRESENTATIVE BATCH OF THE ACTUAL MATERIAL BEING PROPOSED FOR USE. REFER TO PROJECT SPECIFICATIONS FOR TESTING FREQUENCIES AND REQUIREMENTS.					10. INLET SEDIMENT TRAPS SHALL BE PROVIDED AT ALL PIT AND CULVERT ENTRIES DURING CONSTRUCTION AND MAINTAINED UNTIL VEGETATION IN DRAINS HAS BEEN ESTABLISHED.															
4. THE CONTRACTOR SHALL LOCATE AND DELINEATE ALL SURVEY BENCHMARKS SO THAT THEY ARE NOT REMOVED OR DAMAGED AS PART OF THE WORKS. REFER SURVEY DRAWINGS FOR LOCATIONS.										11. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS QUICKLY AS POSSIBLE TO MINIMISE RISK OF EROSION.															
EXISTING SERVICES										12. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION, CONFINING ACCESS WHERE POSSIBLE TO PROPOSED OR EXISTING ROAD ALIGNMENTS PLUS THREE (3) METRES WHERE NECESSARY. AREAS TO BE LEFT UNDISTURBED SHALL BE FENCED OFF.															
1. PLANS HAVE BEEN PREPARED FROM FIELD SURVEY AND EXISTING RECORDS PROVIDED BY UTILITY AUTHORITIES (BEFORE YOU DIG ENQUIRY). IT IS THE CIVIL CONTRACTORS RESPONSIBILITY TO CONDUCT THEIR OWN BYDA ENQUIRY AND CONFIRM THE LOCATION OF ALL EXISTING SERVICES ON THE WORK SITE PRIOR TO ANY WORKS TAKING PLACE. THE RELEVANT SERVICE AUTHORITY SHOULD BE CONTACTED FOR ADVICE AND DETAILED LOCATIONS OF EXISTING SERVICES.										13. SITE ACCESS SHALL BE CONTROLLED DURING CONSTRUCTION, CONFINING ACCESS WHERE POSSIBLE TO A SUITABLE 'SHAKE DOWN' ENTRY & EXIT RAMP.															
2. ANY WORK CARRIED OUT AROUND EXISTING SERVICES SHALL BE DONE SO IN A MANNER IN ACCORDANCE WITH THE RELEVANT SERVICE AUTHORITIES REQUIREMENTS.										14. DUST SUPPRESSING ACTIVITIES SHALL BE MAINTAINED FOR THE DURATION OF THE WORKS. THIS SHALL INCLUDE USING WATER CARTS AS NECESSARY OVER CONSTRUCTION TRAFFIC PATHS, BARE SURFACES, WETTING DOWN OF STOCKPILES AND WETTING OF LOCALISED CONSTRUCTION ACTIVITIES THAT PRODUCE DUST.															
3. WORK IN THE VICINITY OF OVERHEAD ELECTRICAL SERVICES SHALL BE CARRIED OUT IN ACCORDANCE WITH ERGON ENERGY REQUIREMENTS AND CLEARANCES MAINTAINED AT ALL TIMES. IF IN DOUBT, CONSULT WITH ERGON ENERGY. ALSO REFER TO SHEET 32 FOR EXCAVATION REQUIREMENTS.										15. HIGH EROSION AREAS, INCLUDING BATTERS, SHALL BE STABILISED WITHIN SEVEN (7) DAYS OF COMPLETION OF WORKS OR EARLIER IF POSSIBLE.															
										ROAD PAVEMENTS															
										1. CONTROL TESTING OF PAVEMENT EARTHWORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH A.S.3798 AND TRANSPORT MAIN ROADS TECHNICAL SPECIFICATION MRTS04.															
										2. FIELD DENSITY TESTS SHALL BE UNDERTAKEN AT THE FOLLOWING MINIMUM REFER TO THE PROJECT SPECIFICATION FOR TESTING FREQUENCIES AND REQUIREMENTS.															
										<table><tr><th>COMPONENT</th><th>COMPACTION REQUIREMENTS</th></tr><tr><td>PAVEMENT SUBGRADE</td><td>- COHESIVE MATERIAL - 98% SRDD TO 300mm DEPTH - NON-COHESIVE MATERIAL 75% DI</td></tr><tr><td>PAVEMENT BASE MATERIALS</td><td>100% SRDD</td></tr></table>					COMPONENT	COMPACTION REQUIREMENTS	PAVEMENT SUBGRADE	- COHESIVE MATERIAL - 98% SRDD TO 300mm DEPTH - NON-COHESIVE MATERIAL 75% DI	PAVEMENT BASE MATERIALS	100% SRDD					
COMPONENT	COMPACTION REQUIREMENTS																								
PAVEMENT SUBGRADE	- COHESIVE MATERIAL - 98% SRDD TO 300mm DEPTH - NON-COHESIVE MATERIAL 75% DI																								
PAVEMENT BASE MATERIALS	100% SRDD																								
										3. LIMITS AND TOLERANCES ARE SUMMARISED AS BELOW:															
										(A). STOCKPILE SITES. (I) REFER TO THE STANDARD SUBSTATION CIVIL CONSTRUCTION AND EARTHWORKS, ROADWORKS AND STORMWATER STANDARD SPECIFICATIONS FOR CONSTRUCTION TOLERANCES															
										(B). SPREADING PAVEMENT MATERIALS. COMPACTED LAYER THICKNESS 150mm															
										(C). COMPACTION ACCEPTANCE MINIMUM VALUE OF ALL CALCULATED RELATIVE COMPACTION RESULTS 100 PERCENT OF THAT SPECIFIED															





PORTABLE
LONG SERVICE
LEAVE

notification and payment CONFIRMATION

This form is issued in accordance with the *Building and Construction Industry (Portable Long Service Leave) Act 1991* s77(2). Form BCI 14v1.

Confirmation date: 02/01/2025

BUILDING AND CONSTRUCTION WORK DETAILS

QLeave levy number: A2000175 Date notified: 26/09/2024

Building and construction work description: CAPEX FY 24/25 CAPITAL ESTIMATE

Lot no.: _____ Plan no.: _____

Building and construction work address: VARIOUS

Suburb: TOWNSVILLE Postcode: 4810

Internal job reference number (if applicable): NQ CAP

Notified cost of work (GST exclusive): \$ 591,712,283

Total levy paid: \$ 1174112.00

Exempted cost of work (GST exclusive): \$ 387,518,813

Start date: 01/07/2024 Finish date: 30/06/2025

Council: TOWN

Certifier: _____

Owner: ERGON ENERGY CORPORATION LIMITED

Principal contractor: UNKNOWN

QLeave has issued this form to confirm that notification and payment has been received. Under s.77 of the *Building and Construction Industry (Portable Long Service Leave) Act 1991*, all obligations have been met.

BUILDING AND CONSTRUCTION WORK COMPLETED

When your building and construction work reaches practical completion, you are invited to submit your final costs and completion date to QLeave. To provide QLeave with these details, please complete the **Finalisation form** available at www.qleave.qld.gov.au.

CONTACT QLEAVE

Unit 1, 62 Crockford Street, Northgate Qld 4013 | PO Box 348, Archerfield BC Qld 4108
Freecall 1300 QLEAVE | Email levies@qleave.qld.gov.au | Web www.qleave.qld.gov.au

QLeave is collecting the information on this form for the purposes of administering the *Building and Construction Industry (Portable Long Service Leave) Act 1991*, as required by that Act. QLeave may give some or all of this information to various other Government departments or agencies as required or permitted by law.

Document Set ID: 4459323

Version: 1, Version Date: 17/02/2025



State code 1: Development in a state-controlled road environment

State Development Assessment Provisions guideline - State Code 1: Development in a state-controlled road environment. This guideline provides direction on how to address State Code 1.

Table 1.1 Development in general

Performance outcomes	Acceptable outcomes	Response
Buildings, structures, infrastructure, services and utilities		
PO1 The location of the development does not create a safety hazard for users of the state-controlled road .	AO1.1 Development is not located in a state-controlled road . AND AO1.2 Development can be maintained without requiring access to a state-controlled road .	Complies with PO1/AO1 There is no additional safety hazards for road users. Development can be maintained without requiring access to a state-controlled road.
PO2 The design and construction of the development does not adversely impact the structural integrity or physical condition of the state-controlled road or road transport infrastructure .	No acceptable outcome is prescribed.	Complies with PO2/AO2
PO3 The location of the development does not obstruct road transport infrastructure or adversely impact the operating performance of the state-controlled road .	No acceptable outcome is prescribed.	Complies with PO3/AO3
PO4 The location, placement, design and operation of advertising devices, visible from the state-controlled road , do not create a safety hazard for users of the state-controlled road .	No acceptable outcome is prescribed.	Complies with PO4/AO4

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Performance outcomes	Acceptable outcomes	Response
PO5 The design and construction of buildings and structures does not create a safety hazard by distracting users of the state-controlled road .	AO5.1 Facades of buildings and structures fronting the state-controlled road are made of non-reflective materials. AND AO5.2 Facades of buildings and structures do not direct or reflect point light sources into the face of oncoming traffic on the state-controlled road . AND AO5.3 External lighting of buildings and structures is not directed into the face of oncoming traffic on the state-controlled road . AND AO5.4 External lighting of buildings and structures does not involve flashing or laser lights.	Complies with PO5/AO5 AO5.1 – Yes AO5.2 – No AO5.3 – No AO5.4 – No
PO6 Road, pedestrian and bikeway bridges over a state-controlled road are designed and constructed to prevent projectiles from being thrown onto the state-controlled road .	AO6.1 Road, pedestrian and bikeway bridges over the state-controlled road include throw protection screens in accordance with section 4.11 of the Design Criteria for Bridges and Other Structures Manual, Department of Transport and Main Roads, 2020.	Complies with PO6 / AO6 Not Applicable – no bridges.
Landscaping		
PO7 The location of landscaping does not create a safety hazard for users of the state-controlled road .	AO7.1 Landscaping is not located in a state-controlled road . AND AO7.2 Landscaping can be maintained without requiring access to a state-controlled road .	Complies with PO7 / AO7 AO7.1 – No AO7.2 – Yes AO7.3 – No

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Performance outcomes	Acceptable outcomes	Response
	<p>AND</p> <p>AO7.3 Landscaping does not block or obscure the sight lines for vehicular access to a state-controlled road.</p>	
Stormwater and overland flow		
PO8 Stormwater run-off or overland flow from the development site does not create or exacerbate a safety hazard for users of the state-controlled road .	No acceptable outcome is prescribed.	Complies with PO8 / AO8 Negligible impact to state-controlled road.
PO9 Stormwater run-off or overland flow from the development site does not result in a material worsening of the operating performance of the state-controlled road or road transport infrastructure .	No acceptable outcome is prescribed.	Complies with PO9 / AO9 Minor changes to sheet flow drainage paths resulting in negligible impact to state-controlled roads and infrastructure.
PO10 Stormwater run-off or overland flow from the development site does not adversely impact the structural integrity or physical condition of the state-controlled road or road transport infrastructure .	No acceptable outcome is prescribed.	Complies with PO10 / AO10 Minor changes to sheet flow drainage paths resulting in negligible impact to state-controlled roads and infrastructure.
PO11 Development ensures that stormwater is lawfully discharged.	<p>AO11.1 Development does not create any new points of discharge to a state-controlled road.</p> <p>AND</p> <p>AO11.2 Development does not concentrate flows to a state-controlled road.</p> <p>AND</p> <p>AO11.3 Stormwater run-off is discharged to a lawful point of discharge.</p> <p>AND</p>	<p>Complies with PO11 / AO11 AO11.1,2,4 Minor changes to sheet flow drainage paths resulting in negligible impact to state-controlled roads.</p> <p>AO11.3 Current points of discharge are maintained.</p>

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Performance outcomes	Acceptable outcomes	Response
	AO11.4 Development does not worsen the condition of an existing lawful point of discharge to the state-controlled road .	
Flooding		
PO12 Development does not result in a material worsening of flooding impacts within a state-controlled road .	<p>AO12.1 For all flood events up to 1% annual exceedance probability, development results in negligible impacts (within +/- 10mm) to existing flood levels within a state-controlled road.</p> <p>AND</p> <p>AO12.2 For all flood events up to 1% annual exceedance probability, development results in negligible impacts (up to a 10% increase) to existing peak velocities within a state-controlled road.</p> <p>AND</p> <p>AO12.3 For all flood events up to 1% annual exceedance probability, development results in negligible impacts (up to a 10% increase) to existing time of submergence of a state-controlled road.</p>	<p>Complies with PO12 / AO12</p> <p>AO12.1,2,3 Minor changes to sheet flow drainage paths resulting in negligible impact to state-controlled roads.</p>
Drainage Infrastructure		
PO13 Drainage infrastructure does not create a safety hazard for users in the state-controlled road .	<p>AO13.1 Drainage infrastructure is wholly contained within the development site, except at the lawful point of discharge.</p> <p>AND</p>	<p>Complies with PO13 / AO13</p> <p>Proposed new drainage located within the road corridor, is to be constructed and maintained by Ergon Energy. Requires DTMR approval for use and access.</p>

Performance outcomes	Acceptable outcomes	Response
	AO13.2 Drainage infrastructure can be maintained without requiring access to a state-controlled road .	
PO14 Drainage infrastructure associated with, or within, a state-controlled road is constructed, and designed to ensure the structural integrity and physical condition of existing drainage infrastructure and the surrounding drainage network.	No acceptable outcome is prescribed.	Complies with PO14 / AO14 Minor changes to sheet flow drainage paths resulting in negligible impact to existing drainage network.

Table 1.2 Vehicular access, road layout and local roads

Performance outcomes	Acceptable outcomes	Response
Vehicular access to a state-controlled road or within 100 metres of a state-controlled road intersection		
PO15 The location, design and operation of a new or changed access to a state-controlled road does not compromise the safety of users of the state-controlled road .	No acceptable outcome is prescribed.	Complies with PO# / AO# Use this column to indicate whether compliance is achieved with the relevant PO or AO (or if they do not apply), and explain why Complies with PO15 / AO15 Not Applicable – no access directly off state controlled road.
PO16 The location, design and operation of a new or changed access does not adversely impact the functional requirements of the state-controlled road .	No acceptable outcome is prescribed.	Complies with PO16 / AO16 Not Applicable – no access directly off state controlled road.
PO17 The location, design and operation of a new or changed access is consistent with the future intent of the state-controlled road .	No acceptable outcome is prescribed.	Complies with PO17 / AO17 Not Applicable – no access directly off state controlled road.
PO18 New or changed access is consistent with the access for the relevant limited access road policy : 1. LAR 1 where direct access is prohibited; or	No acceptable outcome is prescribed.	Complies with PO18 / AO18 Not Applicable – no access directly off state controlled road.

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Performance outcomes	Acceptable outcomes	Response
2. LAR 2 where access may be permitted, subject to assessment.		
PO19 New or changed access to a local road within 100 metres of an intersection with a state-controlled road does not compromise the safety of users of the state-controlled road .	No acceptable outcome is prescribed.	Complies with PO19 / AO19 No, over 100m away
PO20 New or changed access to a local road within 100 metres of an intersection with a state-controlled road does not adversely impact on the operating performance of the intersection.	No acceptable outcome is prescribed.	Complies with PO20 / AO20 No, over 100m away
Public passenger transport and active transport		
PO21 Development does not compromise the safety of users of public passenger transport infrastructure, public passenger services and active transport infrastructure .	No acceptable outcome is prescribed.	Not applicable
PO22 Development maintains the ability for people to access public passenger transport infrastructure, public passenger services and active transport infrastructure .	No acceptable outcome is prescribed.	Not applicable
PO23 Development does not adversely impact the operating performance of public passenger transport infrastructure, public passenger services and active transport infrastructure .	No acceptable outcome is prescribed.	Not applicable
PO24 Development does not adversely impact the structural integrity or physical condition of public passenger transport infrastructure and active transport infrastructure .	No acceptable outcome is prescribed.	Not applicable

Table 1.3 Network impacts

Performance outcomes	Acceptable outcomes	Response
PO25 Development does not compromise the safety of users of the state-controlled road network .	No acceptable outcome is prescribed.	Complies with PO25 / AO25 No

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Performance outcomes	Acceptable outcomes	Response
PO26 Development ensures no net worsening of the operating performance of the state-controlled road network.	No acceptable outcome is prescribed.	Complies with PO26 / AO26 Yes
PO27 Traffic movements are not directed onto a state-controlled road where they can be accommodated on the local road network.	No acceptable outcome is prescribed.	Complies with PO27 / AO27 Yes
PO28 Development involving haulage exceeding 10,000 tonnes per year does not adversely impact the pavement of a state-controlled road .	No acceptable outcome is prescribed.	Complies with PO28 / AO28 Not applicable – does not exceed
PO29 Development does not impede delivery of planned upgrades of state-controlled roads .	No acceptable outcome is prescribed.	Complies with PO29 / AO29 No
PO30 Development does not impede delivery of corridor improvements located entirely within the state-controlled road corridor .	No acceptable outcome is prescribed.	Complies with PO30 / AO30 No

Table 1.4 Filling, excavation, building foundations and retaining structures

Performance outcomes	Acceptable outcomes	Response
PO31 Development does not create a safety hazard for users of the state-controlled road or road transport infrastructure .	No acceptable outcome is prescribed.	Complies with PO31 / AO31 No
PO32 Development does not adversely impact the operating performance of the state-controlled road .	No acceptable outcome is prescribed.	Complies with PO32 / AO32 No
PO33 Development does not undermine, damage or cause subsidence of a state-controlled road .	No acceptable outcome is prescribed.	Complies with PO33 / AO33 No
PO34 Development does not cause ground water disturbance in a state-controlled road .	No acceptable outcome is prescribed.	Complies with PO34 / AO34 No
PO35 Excavation, boring, piling, blasting and fill compaction do not adversely impact the physical condition or structural integrity of a state-controlled road or road transport infrastructure .	No acceptable outcome is prescribed.	Complies with PO35 / AO35 No
PO36 Filling and excavation associated with the construction of new or changed access do not compromise the operation or capacity of existing	No acceptable outcome is prescribed.	Complies with PO36 / AO36 No

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Performance outcomes	Acceptable outcomes	Response
drainage infrastructure for a state-controlled road .		

Table 1.5 Environmental emissions

Statutory note: Where a **state-controlled road** is co-located in the same transport corridor as a railway, the development should instead comply with Environmental emissions in State code 2: Development in a railway environment.

Performance outcomes	Acceptable outcomes	Response
Reconfiguring a lot		
Involving the creation of 5 or fewer new residential lots adjacent to a state-controlled road or type 1 multi-modal corridor		
PO37 Development minimises free field noise intrusion from a state-controlled road .	<p>AO37.1 Development provides a noise barrier or earth mound which is designed, sited and constructed:</p> <ol style="list-style-type: none"> to achieve the maximum free field acoustic levels in reference table 2 (item 2.1); in accordance with: <ol style="list-style-type: none"> Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020. <p>OR</p> <p>AO37.2 Development achieves the maximum free field acoustic levels in reference table 2 (item 2.1) by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.</p>	Not applicable

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Performance outcomes	Acceptable outcomes	Response
	<p>OR</p> <p>AO37.3 Development provides a solid gap-free fence or other solid gap-free structure along the full extent of the boundary closest to the state-controlled road.</p>	
Involving the creation of 6 or more new residential lots adjacent to a state-controlled road or type 1 multi-modal corridor		
PO38 Reconfiguring a lot minimises free field noise intrusion from a state-controlled road .	<p>AO38.1 Development provides noise barrier or earth mound which is designed, sited and constructed:</p> <ol style="list-style-type: none"> 1. to achieve the maximum free field acoustic levels in reference table 2 (item 2.1); 2. in accordance with: <ol style="list-style-type: none"> a. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020. <p>OR</p> <p>AO38.2 Development achieves the maximum free field acoustic levels in reference table 2 (item 2.1) by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.</p>	Not applicable
Material change of use (accommodation activity)		
Ground floor level requirements adjacent to a state-controlled road or type 1 multi-modal corridor		

Performance outcomes	Acceptable outcomes	Response
PO39 Development minimises noise intrusion from a state-controlled road in private open space .	<p>AO39.1 Development provides a noise barrier or earth mound which is designed, sited and constructed:</p> <ol style="list-style-type: none"> 1. to achieve the maximum free field acoustic levels in reference table 2 (item 2.2) for private open space at the ground floor level; 2. in accordance with: <ol style="list-style-type: none"> a. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020. <p>OR</p> <p>AO39.2 Development achieves the maximum free field acoustic level in reference table 2 (item 2.2) for private open space by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.</p>	Not applicable
PO40 Development (excluding a relevant residential building or relocated building) minimises noise intrusion from a state-controlled road in habitable rooms at the facade.	<p>AO40.1 Development (excluding a relevant residential building or relocated building) provides a noise barrier or earth mound which is designed, sited and constructed:</p> <ol style="list-style-type: none"> 1. to achieve the maximum building façade acoustic level in reference table 1 (item 1.1) for habitable rooms; 2. in accordance with: 	Not applicable

Performance outcomes	Acceptable outcomes	Response
	<ul style="list-style-type: none"> a. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; b. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; c. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020. <p>OR</p> <p>AO40.2 Development (excluding a relevant residential building or relocated building) achieves the maximum building façade acoustic level in reference table 1 (item 1.1) for habitable rooms by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound.</p>	
PO41 Habitable rooms (excluding a relevant residential building or relocated building) are designed and constructed using materials to achieve the maximum internal acoustic level in reference table 3 (item 3.1).	No acceptable outcome is provided.	Not applicable
Above ground floor level requirements (accommodation activity) adjacent to a state-controlled road or type 1 multi-modal corridor		
PO42 Balconies, podiums, and roof decks include: <ul style="list-style-type: none"> 1. a continuous solid gap-free structure or balustrade (excluding gaps required for drainage purposes to comply with the Building Code of Australia); 2. highly acoustically absorbent material treatment for the total area of the soffit above balconies, podiums, and roof decks. 	No acceptable outcome is provided.	Not applicable

Performance outcomes	Acceptable outcomes	Response
PO43 Habitable rooms (excluding a relevant residential building or relocated building) are designed and constructed using materials to achieve the maximum internal acoustic level in reference table 3 (item 3.1).	No acceptable outcome is provided.	Not applicable
Material change of use (other uses)		
Ground floor level requirements (childcare centre, educational establishment, hospital) adjacent to a state-controlled road or type 1 multi-modal corridor		
PO44 Development: <ol style="list-style-type: none"> 1. provides a noise barrier or earth mound that is designed, sited and constructed: <ol style="list-style-type: none"> a. to achieve the maximum free field acoustic level in reference table 2 (item 2.3) for all outdoor education areas and outdoor play areas; b. in accordance with: <ol style="list-style-type: none"> i. Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; ii. Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; iii. Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020; or 2. achieves the maximum free field acoustic level in reference table 2 (item 2.3) for all outdoor education areas and outdoor play areas by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound. 	No acceptable outcome is provided.	Not applicable

Performance outcomes	Acceptable outcomes	Response
PO45 Development involving a childcare centre or educational establishment : <ol style="list-style-type: none"> provides a noise barrier or earth mound that is designed, sited and constructed: to achieve the maximum building facade acoustic level in reference table 1 (item 1.2); in accordance with: <ol style="list-style-type: none"> Chapter 7 integrated noise barrier design of the Transport Noise Management Code of Practice: Volume 1 (Road Traffic Noise), Department of Transport and Main Roads, 2013; Technical Specification-MRTS15 Noise Fences, Transport and Main Roads, 2019; Technical Specification-MRTS04 General Earthworks, Transport and Main Roads, 2020; or achieves the maximum building facade acoustic level in reference table 1 (item 1.2) by alternative noise attenuation measures where it is not practical to provide a noise barrier or earth mound. 	No acceptable outcome is provided.	Not applicable
PO46 Development involving: <ol style="list-style-type: none"> indoor education areas and indoor play areas; or sleeping rooms in a childcare centre; or patient care areas in a hospital achieves the maximum internal acoustic level in reference table 3 (items 3.2-3.4). 	No acceptable outcome is provided.	Not applicable
Above ground floor level requirements (childcare centre, educational establishment, hospital) adjacent to a state-controlled road or type 1 multi-modal corridor		
PO47 Development involving a childcare centre or educational establishment which have balconies, podiums or elevated outdoor play	No acceptable outcome is provided.	Not applicable

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Performance outcomes	Acceptable outcomes	Response
areas predicted to exceed the maximum free field acoustic level in reference table 2 (item 2.3) due to noise from a state-controlled road are provided with: <ol style="list-style-type: none"> 1. a continuous solid gap-free structure or balustrade (excluding gaps required for drainage purposes to comply with the Building Code of Australia); 2. highly acoustically absorbent material treatment for the total area of the soffit above balconies or elevated outdoor play areas. 		
PO48 Development including: <ol style="list-style-type: none"> 1. indoor education areas and indoor play areas in a childcare centre or educational establishment; or 2. sleeping rooms in a childcare centre; or 3. patient care areas in a hospital located above ground level, is designed and constructed to achieve the maximum internal acoustic level in reference table 3 (items 3.2-3.4). 	No acceptable outcome is provided.	Not applicable
Air, light and vibration		
PO49 Private open space, outdoor education areas and outdoor play areas are protected from air quality impacts from a state-controlled road .	AO49.1 Each dwelling or unit has access to a private open space which is shielded from a state-controlled road by a building, solid gap-free fence , or other solid gap-free structure . OR AO49.2 Each outdoor education area and outdoor play area is shielded from a state-controlled road by a building, solid gap-free fence , or other solid gap-free structure .	Not applicable

Performance outcomes	Acceptable outcomes	Response
PO50 Patient care areas within hospitals are protected from vibration impacts from a state-controlled road or type 1 multi-modal corridor .	<p>AO50.1 Hospitals are designed and constructed to ensure vibration in the patient treatment area does not exceed a vibration dose value of $0.1\text{m/s}^{1.75}$.</p> <p>AND</p> <p>AO50.2 Hospitals are designed and constructed to ensure vibration in the ward of a patient care area does not exceed a vibration dose value of $0.4\text{m/s}^{1.75}$.</p>	Not applicable
<p>PO51 Development is designed and sited to ensure light from infrastructure within, and from users of, a state-controlled road or type 1 multi-modal corridor, does not:</p> <ol style="list-style-type: none"> 1. intrude into buildings during night hours (10pm to 6am); 2. create unreasonable disturbance during evening hours (6pm to 10pm). 	No acceptable outcomes are prescribed.	Not applicable

Table 1.6: Development in a future state-controlled road environment

Performance outcomes	Acceptable outcomes	Response
PO52 Development does not impede delivery of a future state-controlled road .	<p>AO52.1 Development is not located in a future state-controlled road.</p> <p>OR ALL OF THE FOLLOWING APPLY:</p> <p>AO52.2 Development does not involve filling and excavation of, or material changes to, a future state-controlled road.</p> <p>AND</p>	Not applicable

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Performance outcomes	Acceptable outcomes	Response
	<p>AO52.3 The intensification of lots does not occur within a future state-controlled road.</p> <p>AND</p> <p>AO52.4 Development does not result in the landlocking of parcels once a future state-controlled road is delivered.</p>	
PO53 The location and design of new or changed access does not create a safety hazard for users of a future state-controlled road .	AO53.1 Development does not include new or changed access to a future state-controlled road .	Not applicable
PO54 Filling, excavation, building foundations and retaining structures do not undermine, damage or cause subsidence of a future state-controlled road .	No acceptable outcome is prescribed.	Not applicable
PO55 Development does not result in a material worsening of stormwater, flooding, overland flow or drainage impacts in a future state-controlled road or road transport infrastructure .	No acceptable outcome is prescribed.	Not applicable
PO56 Development ensures that stormwater is lawfully discharged.	<p>AO56.1 Development does not create any new points of discharge to a future state-controlled road.</p> <p>AND</p> <p>AO56.2 Development does not concentrate flows to a future state-controlled road.</p> <p>AND</p> <p>AO56.3 Stormwater run-off is discharged to a lawful point of discharge.</p> <p>AND</p>	Not applicable

Performance outcomes	Acceptable outcomes	Response
	AO56.4 Development does not worsen the condition of an existing lawful point of discharge to the future state-controlled road .	