# Appendix A

Brief and Construction Diagrams



# **Resource 4**

Environmental assessment procedure for routine and minor works

# Minor works REF brief template

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### P.0069937 HW16 Bruxner Highway S5470-5480 Tara to Captains Creek Minor works review of environmental factors brief

March 2022

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#### Appendices

Appendix A	Minor works REF template and guidance note
Appendix B	Site location map
A	

Appendix C Concept plan (KMZ File will be provided

#### 1.1 Purpose

Transport for NSW (TfNSW) requires the services of a professional services contractor (the contractor) to prepare a Minor works review of environmental factors (REF) to fulfil the requirements of Division 5.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act), and to take into account all matters affecting or likely to affect the environment as a result of the proposal.

#### 1.2 Proposal description

The S5470-5480 Tara to Captains Creek Project is located approximately 47km west of Casino on the Bruxner Highway, measuring from the Bruxner Highway/Summerland Way Roundabout in Casino.

The need to rehabilitate the pavement has stemmed from poor existing pavement conditions and a narrowed sealed width of around 7.0m. Transport's objectives are to rehabilitate the pavement to achieve a 20 year design life, increase the sealed formation from 7m to 9m to achieve a minimum 3.25m Lane width and 1.0m sealed shoulders and increase road user safety by removing roadside hazards and implementing safety barrier.

#### Hours of Works

Expected:

07:00 – 18:00 Mon-Fri

08:00 – 13:00 Sat

At time the project team may request work to 18:00 on Saturdays (daylight hours). Noise for extended hours of work need to be assessed.

#### **Project Duration**

24 weeks (Estimated)

#### **Project Works**

The project involves the following activities:

- Compound Establishment/Disestablishment
- Traffic Control Establishment
- Implement Erosion and Sediment Controls
- Pavement Rehabilitation
- Tree Removal (Trees marked in red on KMZ file)
- Pavement Widening
- Culvert Widening Pipe extension 2.44m each side all culverts
- Proposal of new culvert at CH 50625 as per provided drawings
- Installation of Safety Barriers
- Sealing of pavement
- Line-marking and delineation, not including Audio Tactile Line Marking

The work area will begin 100m prior to S5470 and cease 100m into S5490 as marked up on the project site maps. The width of the work will typically be from drainage line to drainage line, assessment should include fence line to fence line to cover all aspects of the environment in this location.

There are several stockpiles planned for possible use (noting the assessment is likely to include more sites than required to provide options for the delivery team):

- ST50319 Approx 700m West of the end of S5480
- ST50320 Approx 1.5km West of the end of S5490

Multiple compound/parking areas have been proposed, all project mapping can be found in appendix B. All found via desktop review, if more suitable locations are found within site inspection please put forward the recommendation.

#### 1.3 Background

Background information relevant to the proposal that would assist in your response to this brief includes the following:

The Tara to Captains Creek Project is a 2.59km section of road on the Bruxner Highway constructed back in the 1960s. Another route, The Clarence Way meets the Bruxner Highway from the south at S5470 and continues North in the middle of S5450, the Clarence Way runs from Woodenbong (Just south of Qld Border) South to Koolkhan (Just North of Grafton).

There are waterways evident in the google earth airview, based on the desktop review some culvert extensions seem to be free of waterways and others aren't. Please review the extents of the waterways as consideration must be made in preventing any impact from construction works.

Preliminary searches have not been conducted at the time of the brief submission. These will be completed in the near future to form part of the Procedure for Aboriginal Cultural Heritage Consultation and Investigation (PACHCI) which will be incorporated into the MWREF.

#### **1.4 Project information**

The following project information is appended to this brief to assist in your response:

- TfNSW Minor Works REF template (Resource 5) (Appendix A).
- Site location map (Appendix B).
- Concept design (Appendix C).
- Design KMZ File (Provided separately)
- Stockpiles and Compound Locations

The successful tenderer will have access to the following additional information to assist with the preparation of the Minor Works REF:

- TfNSW Environmental assessment procedure for routine and minor works.
- Noise estimating tool
- Documentation from TfNSW Aboriginal Cultural Heritage Consultation and Investigation (PACHCI) Stage 1 Including an AHIMS search.
- Other internal documents and procedures can be provided if requested

List the relevant TfNSW specifications that will apply to the proposal to assist the contractor in developing mitigation measures without repetition.]

#### 2.1 General

The Minor Works REF should be prepared in accordance with the Minor Works REF Template (Resource 5)(Appendix A).

Prior to commencing the Minor Works REF it is expected that the contractor will undertake and document the following tasks:

- Accompany the TfNSW project manager and TfNSW Senior Environment and Sustainability Officer on a site visit to discuss the proposal and establish clear lines of communication. The site visit must be attended by the person(s) managing and writing the Minor Works REF
- Risk assessments need to take place before going onsite, traffic management must be considered as part of the assessment. If required the successful contractor should consult with Transport to engage traffic control.
- Review existing information to determine potential environmental constraints, including literature reviews and database search results, feedback from community consultation if available, concept designs, construction footprint, construction methodology, etc
- Prepare and submit methodologies for the Minor Works REF and any specialist studies for TfNSW approval. Any changes to the agreed methodology and scope of work for the Minor Works REF and specialist studies must be approved in writing by the TfNSW representative before they are commenced
- Prepare and submit a schedule (program) for the Minor Works REF to be prepared in consultation with the TfNSW project team for TfNSW approval.

Submission of each version of the Minor Works REF must be accompanied by evidence of how comments received on the previous draft/s have been addressed. Further preparation of the Minor Works REF must not proceed until TfNSW has approved the responses to comments and any doubts or differences of opinion have been resolved.

All GIS (geographical information systems) data collected as part of the work described in this brief must be provided to TfNSW as part of the contract.

#### 2.2 Specialist studies

In addition to the above it is expected that the following investigations would be required:

- Noise (assessment of any sensitive receivers against TfNSW guidelines). TfNSW internal Noise Specialists to confirm if an operational noise assessment is required under the legacy Roads and Maritime Noise Criteria Guideline and Noise Mitigation Guideline
- Biodiversity assessment MWREF Chapter – the contractor will ensure that the biodiversity survey and assessment is undertaken by an appropriately qualified, licensed and experienced ecologist. The contractor will ensure that section 3.7 of the Minor Works REF (Biodiversity) addresses the potential occurrence / likelihood of occurrence assessments and relevant 5 part assessments of significance, based in both database searches and site surveys. These will be included as Appendices to the Minor Works REF. The contractor will advise TfNSW at the earliest opportunity if a species specific Management Plan is required or if the design needs to consider threatened species (ie: Micorbats, koalas) and if a significant impact on listed biodiversity is likely to be triggered.

For impacts on trees the field assessment is to include the Plant Community Type to be impacted, the number of individual trees to be impacted and the size class for each tree and a summary table eg: (Total Number of large trees (DBH > 60cm); total number of medium trees

 (15cm < DBH < 60cm; total number of small trees (<15cm DBH). Number of hollows to be removed including those in limbs to be trimmed where the entire tree is not removed and approximate size of hollows to be impacted / target fauna species

A Biodiversity Assessment Report is not required as the successful contractor is required to cover this thoroughly within the MWREF document.

Any report that does not adhere to the Environmental assessment procedure for routine and minor works (EIA-P05-1), including the requirements for adequate quality, will not be accepted as an output by TfNSW.

#### 3.1 Report presentation

The standard for all reports prepared by the contractor must meet the following as a minimum:

- The draft and final copies of reports must be professionally edited and vetted for typographical and grammatical errors before submission to TfNSW.
- The reports must follow the Roads and Maritime Editorial style guide (March 2014)
- Spelling must be consistent with the Australian Macquarie Dictionary
- All reports should be written in clear and concise plain English
- All reports are to be prepared to meet the Web Content Accessibility Guidelines (WCAG) 2.0, Level AA
- Jargon, acronyms and technical words should be clearly explained at the first point of reference in the reports. Acronyms that are not generally common knowledge should be avoided throughout the report and written in full
- Figures, tables and graphs should be used to convey information where possible rather than lengthy text descriptions. Titles, scales and legends (including north points) should be included as appropriate
- Any maps included must be based on topographical information rather than cadastral information. If published maps are reproduced their source must be acknowledged and referenced. Maps and diagrams should include appropriate legends, scale and bearing.
- Photos of the study area should be provided in the appendix of the report. Photos are to be in jpeg format
- Any appendices, annexures and attached data files must be clearly labelled and readily referenced into the body of the reports
- Draft copies of reports are to be clearly watermarked 'draft'
- The report cover and all documents in general must be produced in accordance with the TfNSW visual identity manual. All documents should be of a standard suitable for public availability. The contractor must liaise with a member of the TfNSW graphics panel for the preparation of materials for public availability. No 'branding' of the report with the preferred contractor's logo or name should occur.

#### 3.2 Review and quality

Allow for two reviews of each report/working paper, including an acceptable first draft and final draft version.

Evidence must be provided that comments provided by TfNSW during the review of previous version/s of reports have been addressed by the contractor. Where TfNSW comments provided in draft versions have not been accepted the consultant must discuss with the TfNSW representative prior to finalising the report.

Dependent on the quality of the reports submitted for review a number of TfNSW reviews may be required. Reports must not be finalised until written approval from the TfNSW representative is received.

TfNSW expects a high standard of quality for Minor Works REFs and associated documents. The completeness of the environmental impact assessment and the reputation of TfNSW rely upon the quality of the Minor works REF produced. A high quality Minor works REF has the following characteristics:

- Follows basic EIA principles
- Is technically accurate
- Is comprehensive
- Is easy to read and written in plain English

- Language and technical information is consistent throughout the document
- Is right first time with no need for re-work.

TfNSW will decide whether to accept the Minor Works REF as meeting the deliverable under the contract. Minor Works REFs will not be accepted as a first and final draft until an adequate standard of quality is achieved. Guidance on this decision is provided in the table below.

Deliverable	Standard required to be adequate
Adequate final draft	<ul> <li>A document free of technical weaknesses and/or omissions</li> <li>A document written in plain English and in accordance with the current TfNSW Editorial Style Guide</li> <li>No further value-adding review required prior to submission for signoff</li> </ul>
Adequate draft	<ul> <li>A document that may have minor technical weaknesses and/or omissions</li> <li>A document largely written in plain English and in accordance with the current TfNSW Editorial Style Guide</li> <li>Comments may require additional work and further review prior to submission for sign-off</li> </ul>
Document that cannot be accepted as adequate	• A document requiring substantial work to address technical weaknesses and/or omissions. The document may require considerable additional effort to provide a complete and accurate description and assessment of the proposal to meet environmental assessment requirements under Division 5.1 of the EP&A Act. In some cases the comments required may be too extensive to justify the time input required to thoroughly review

#### 4.1 **Project supervision**

Contact details for the TfNSW representative for the project are as follows:

```
Ross Gersekowski – Project Manager
E: Ross.GERSEKOWSKI@transport.nsw.gov.au
M: 0403 098 102
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Any questions relating to this brief should be directed to the TfNSW representative.

#### 4.2 Project schedule

Preparation of the Minor Works REF commences upon issue of a letter of acceptance. The timeframes for preparation and finalisation of the Minor Works REF are as follows:

Activity/output	By when
Response to the brief	1/4/22
Attendance at inception meeting / site visit	By: 8/4/22
Submit methodologies and scope for the Minor Works REF for TfNSW review and approval	15/4/22
Initiate ISEPP and other statutory consultation	IF REQUIRED
Submit draft Minor Works REF for TfNSW review	6/5/22
Finalise Minor Works REF	27/5/22

The project schedule allows two weeks for the TfNSW to return comments on draft reports.

### 4.3 **Project outputs**

All reports submitted to TfNSW must adhere to the Minor Works REF template (Resource 5). Any report that does not adhere to this procedure, including the requirements for adequate quality, will not be accepted as an output by TfNSW.

Time delays as a result of any inadequate reports submitted to TfNSW will be the responsibility of the contractor. TfNSW will not accept time and/or cost variations due to inadequate deliverables submitted by the contractor. TfNSW may, at its discretion, return any documentation without undertaking the required review if the document is deemed to be of poor quality or is not completed to the required standard. In this instance, TfNSW will not accept time and or cost variations.

Requirements for report production are:

- The electronic copies for all reports are to be provided in both MS Word format (compatible with Word 2007) and Adobe pdf format
- All final reports are to be prepared to meet the Web Content Accessibility Guidelines (WCAG) 2.0, Level AA

- Production of any hard copy report required by the professional services contract is to involve a low environmental impact. Reports are to be produced using the following guidance:
  - Use low impact report paper
  - Gloss-coated paper and lamination must not be used
  - Printing and photocopying is to be double sided
  - Employ binding methods that facilitate recycling
  - Use plant-based inks where cost and performance competitive.

#### 4.4 Project fees and payment

Payment will be made by the method described below. No additional work outside the agreed cost estimate is to be undertaken without prior written approval of the TfNSW representative as identified in Section 4.1 above.

The Consultant is to provide a fee structure that entails a cost breakdown to including milestones for both the draft report and final reports and progress payments are to align with this. Submit these progress payment invoices to the TfNSW Representative for processing.

A concise response to this brief must be submitted to the TfNSW representative identified above in Section 4.1 no later than close of business 25/3/22

Res	ponses to this	brief will be	evaluated a	gainst the	following	assessment criteria:

Criteria	Address
a) Understanding of the brief	<ul> <li>Detail your understanding of the brief and the required outputs</li> <li>The scope of the work proposed must be clearly restated in the words of the tenderer</li> <li>Any restatement must address the issues and requirements outlined in these documents</li> <li>Provide proposed methodologies for any specialist studies.</li> </ul>
b) Technical skills	<ul> <li>The company's technical skills</li> <li>The technical skills of any sub-consultant companies (separate to the above)</li> <li>The nominated project team (including sub-consultants). Provide CVs and the proposed role and time that each nominated person will spend on each deliverable/task for the project</li> <li>Include a primary REF writer and a senior staff member who will be responsible for certifying the quality of all deliverables</li> <li>Outline supervisory arrangements in place for effective management of all sub-consultants.</li> </ul>
c) Recent experience	<ul> <li>Provide recent relevant experience for the company</li> <li>Provide recent relevant experience for any sub-consultancy companies (separate to the above)</li> <li>Identify the experience of all proposed personnel (including sub-consultants) including an outline of their roles and responsibilities for the experience listed</li> <li>Dates must be indicated for all experience.</li> </ul>
d) Estimated costs and value for money	<ul> <li>A fixed price cost is required for the works</li> <li>A budget breakdown is to be included identifying each work element showing total hours, hourly rates, lump sum and disbursements, for the tenderer and any sub-consultants</li> <li>Address the requirements of the brief.</li> </ul>
e) Robustness of estimated costs	That the estimated costs are adequate and realistic to achieve the purpose of the brief.
f) Time performance	Include a detailed program of works and due dates.
g) Quality assurance process	Include internal quality assurance processes including details of completion and certification by senior environment staff.
h) Additional information	Include any other additional information that may be relevant in the selection of the successful tenderer.

The tenderer must submit a conforming tender, but may submit an alternate tender in addition to the conforming tender. An alternate tender may be submitted where the tenderer proposes a

variation from the requirements of these briefing documents. Scope changes and reasons for the variation must be clearly identified in the alternative tender.

### 6 Additional information

#### 6.1 Right of Access

It is a requirement of TfNSW that the TfNSW representative and TfNSW quality manager must always have right of access to the contractor's premises where activities on the project are taking place.

If you require any further information, please contact the TfNSW representative.

#### 6.2 Work, health and safety

The contractor must incorporate work, health and safety in all aspects of the project. Safety of field workers in the vicinity of roads, heavy vehicle and general traffic is paramount. All personnel involved in the field work must read and sign a Safe Work Method Statement (SWMS) prepared by the contractor prior to the commencement of any field work. A signed copy of the SWMS is to be provided to the TfNSW prior to accessing the site. The wearing of a high visibility safety vest is mandatory during the field surveys.

Prior notification to landowners will be required before undertaking any field inspections and surveys within privately owned land. The TfNSW representative should be contacted at least ten (10) working days before field inspections and surveys are to commence so the necessary arrangements can be made.

#### 6.3 Permits

For the purpose of this brief, "permit" includes any statutory consent, approval, authorisation, or landowner's permission.

The contractor shall ensure that all necessary permits have been obtained for undertaking the investigations and that all work is carried out in accordance with these permits. Copies of the relevant permits should be supplied with the response to this brief or, where this is not feasible, provided to the TfNSW representative prior to commencement of field surveys. A person not covered by these permits may not participate in surveys under this contract in a manner that contravenes the conditions of any permit. Delays and difficulties relating to obtaining permits must be brought to the attention of the TfNSW representative.

#### 6.4 Privacy

The contractor is required to manage the receipt and storage of project information in accordance with TfNSW policies and procedures for data privacy.

### Appendix A

**Minor Works REF template** 

Please see template attached to the email

### Appendix B

Site location map

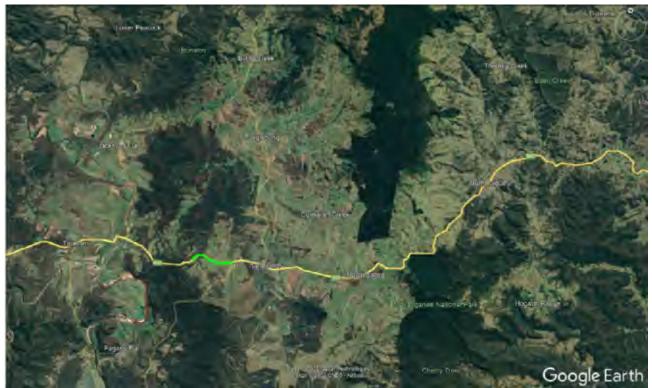


Figure 1: Project location in relation to Mallanganee

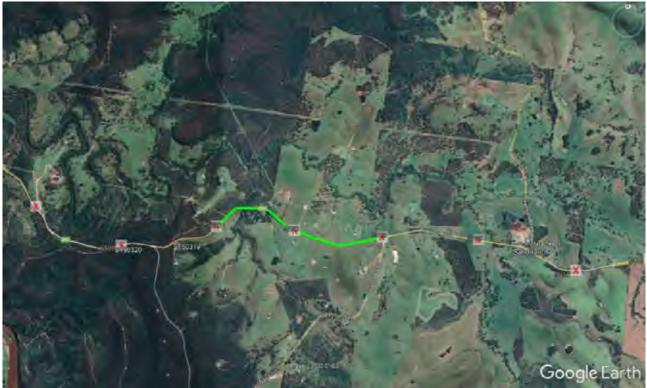


Figure 2: Project overview including Stockpile Sites (ST50319 and 50320)



Figure 3: Project close up including culvert locations and potential compound and parking locations.



Figure 4: Proposed compound parking site 1 wide flat road reserve



Figure 5: Proposed compound/parking site 2 possibly even stockpile site



Figure 6: Proposed compound parking site 3

A number of other locations have been recorded below for potential parking and compound usage.











### Appendix C

### **Concept plan**

Please see attached plan and KMZ files to the email





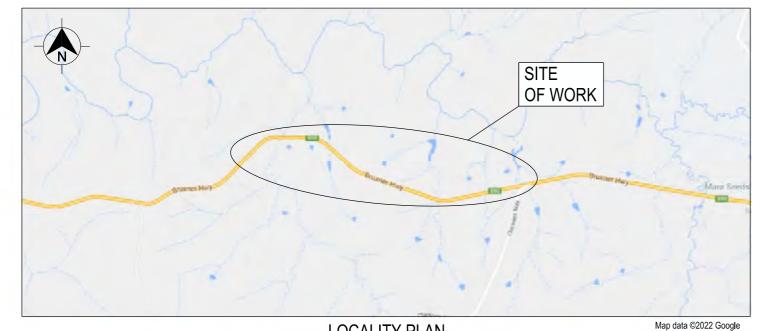
# **KYOGLE COUNCIL** HW16 - BRUXNER HIGHWAY

## N2021081 HW16 TARA AND CAPTAINS CREEK SEGMENT 5470 TO 5480

# PAVEMENT REHABILITATION AND WIDENING SEGMENT 5470 TO 5480 48.075KM TO 50.729KM WEST OF CASINO

# **ROAD DESIGN**

## **CONCEPT DESIGN - PART 1**



PART NUMBER CODE NAME PART 1 GE GENERAL ROAD ALIG MENT AND DETAIL RD UT UTIENTIES TORMWATER MANAGEMENT SM PV RAVEMENT P ROADSIDE FURNITURE AND LINEMARKING LS LANDSCAPING RC PART 2 ROAD CROSS SECTIONS PART 3 PW PROPERTY WORKS

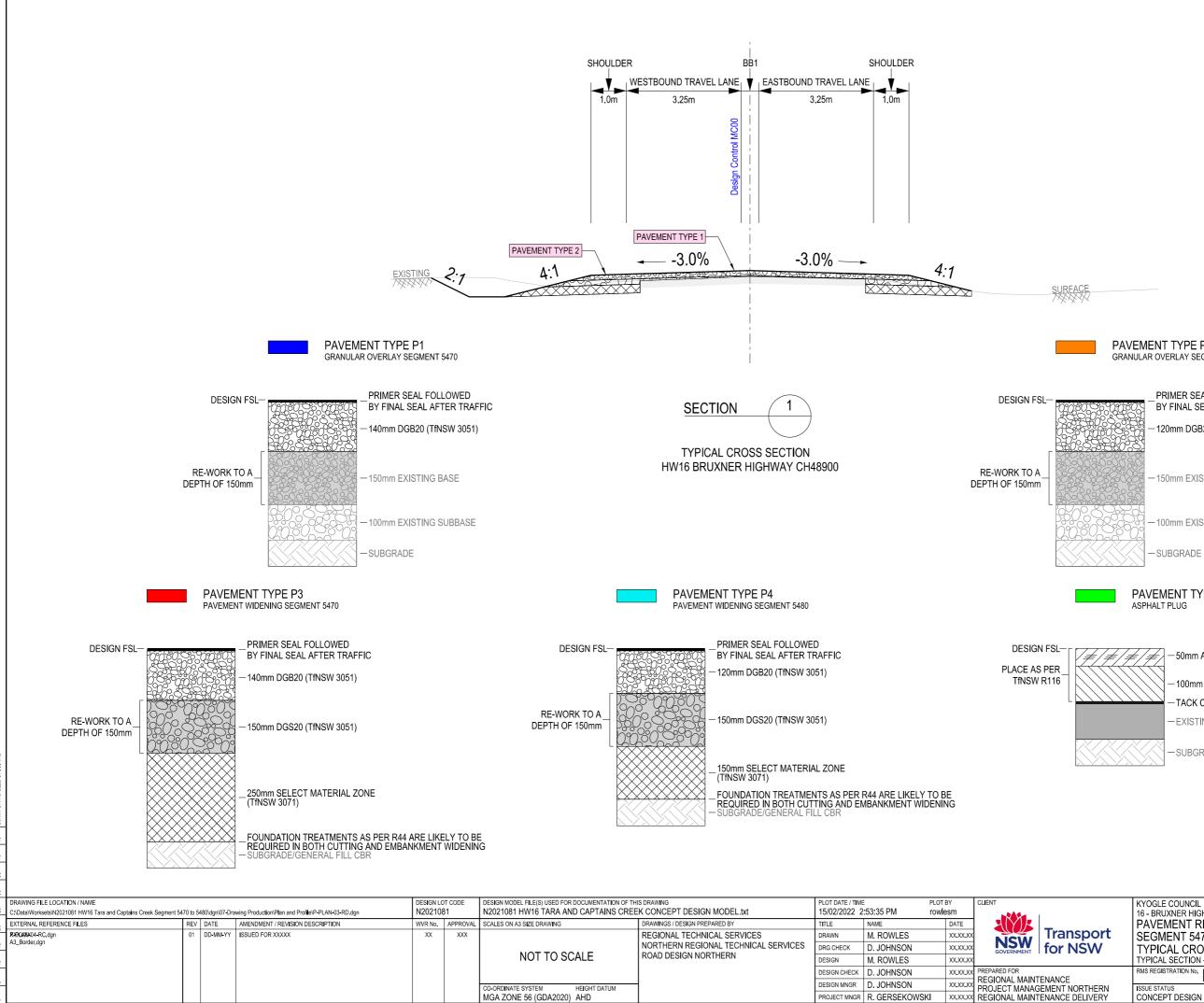
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CO-ORDINATE SYSTEM

MGA ZONE 56 (GDA2020) AHD

HEIGHT DATUM

PROJECT MNGR R. GERSEKOWSKI



PAVEMENT TYPE P2 GRANULAR OVERLAY SEGMENT 5480

> PRIMER SEAL FOLLOWED BY FINAL SEAL AFTER TRAFFIC

-120mm DGB20 (TfNSW 3051)

-150mm EXISTING BASE

-100mm EXISTING SUBBASE

#### PAVEMENT TYPE P5 ASPHALT PLUG

-50mm AC14 WEARING COURSE (C450 BINDER)

-100mm AC20 (C450 BINDER)

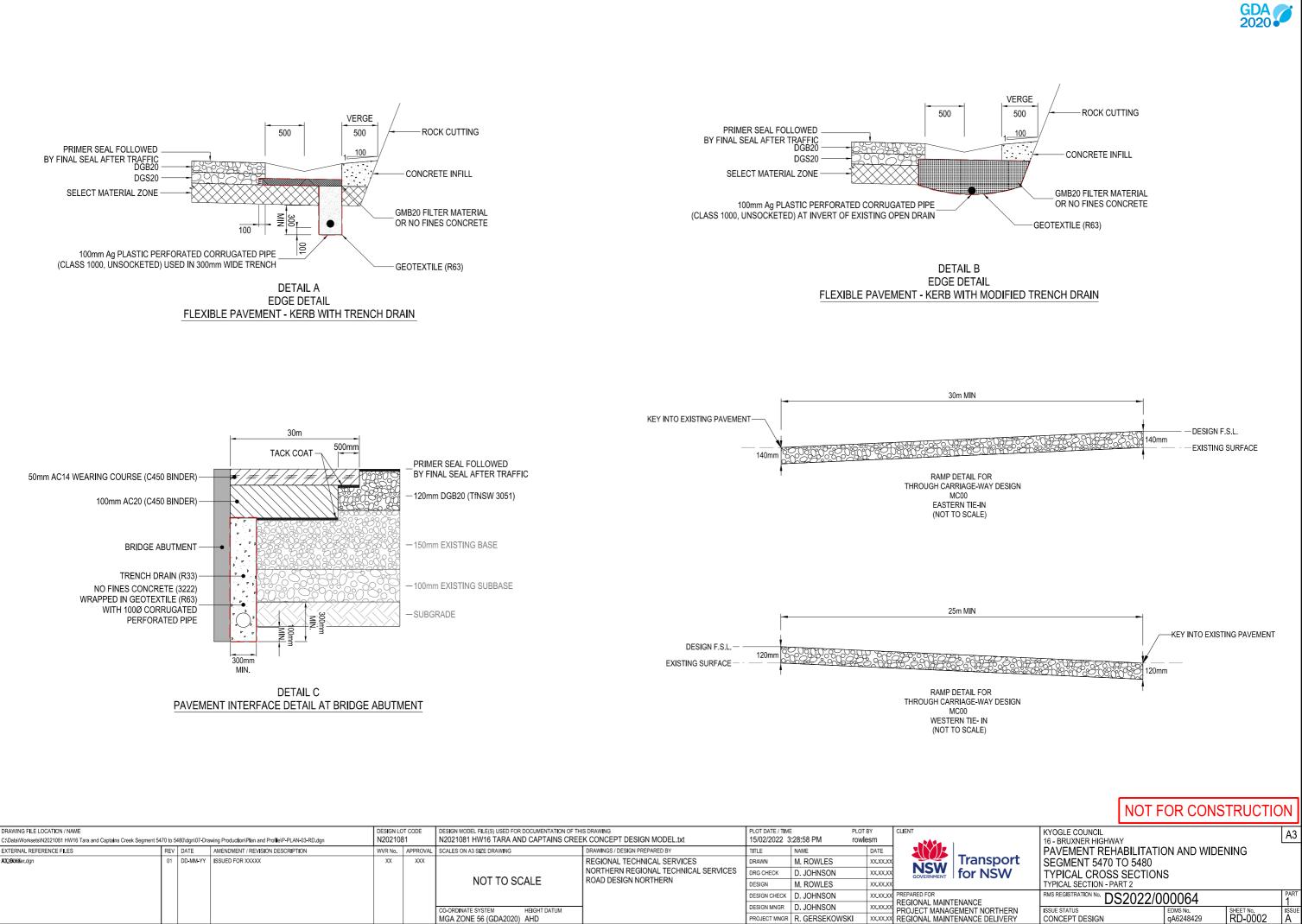
TACK COAT

-EXISTING PAVEMENT

-SUBGRADE

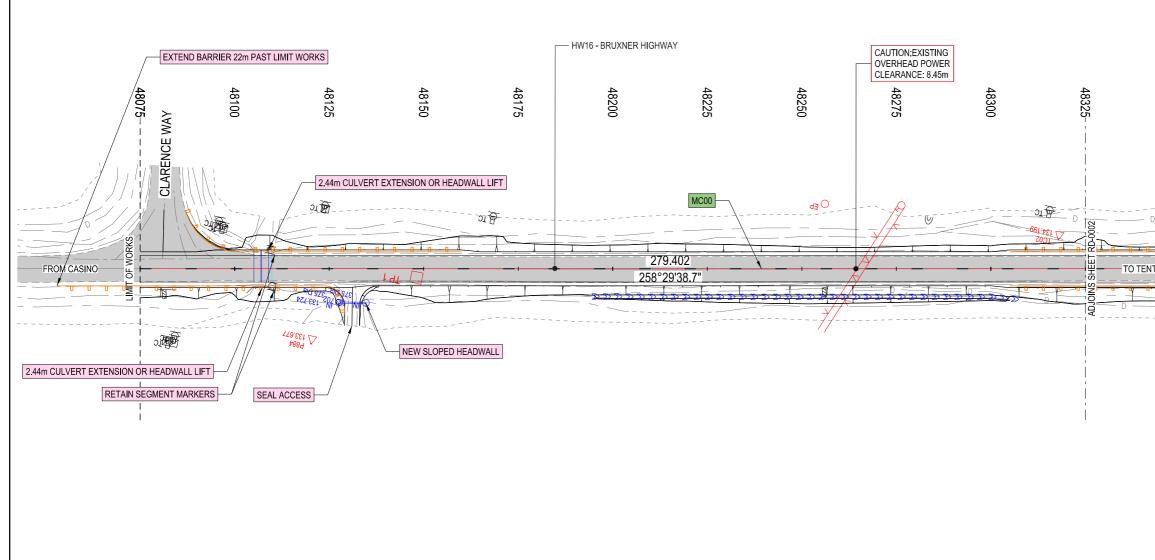
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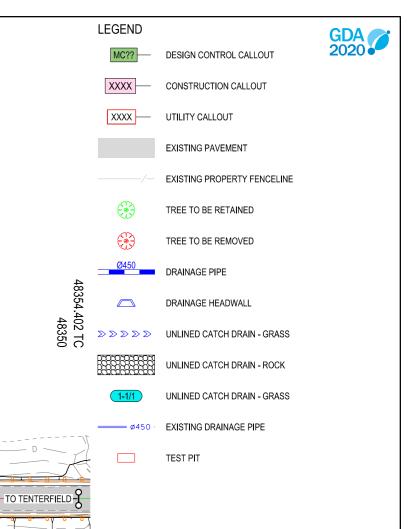


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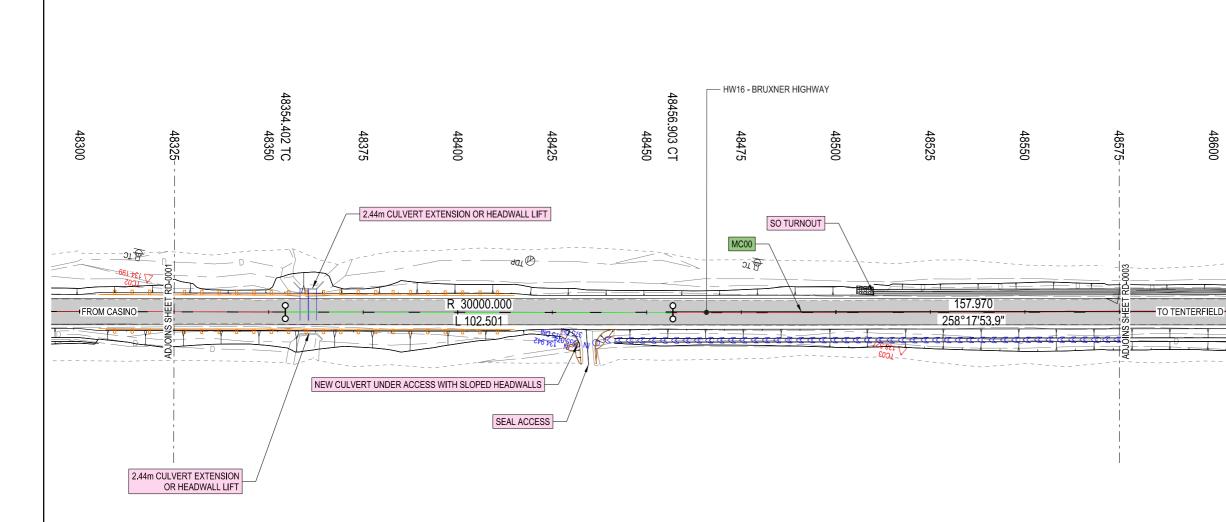


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- 1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT RMS QA SPECIFICIATIONS AND AUSTRALIAN STANDARDS UNLESS OTHERWISE STATED.
- 2. CONTRACTOR TO CONFIRM LOCATION OF ALL SERVICES, DRAINAGE WORKS AND UNDERGROUND INFRASTRUCTURE PRIOR TO COMMENCING WORK. CONTRACTOR TO ENSURE ADOPTED METHOD OF CONSTRUCTION AND PROPOSED WORKS WILL AVOID DAMAGE TO ALL SERVICES AND DRAINAGE WORKS, INCLUDING CLEARANCES TO OVERHEAD POWER LINES.
- 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. ALL LEVELS, METERAGES, CHAINAGES AND CO-ORDINATES ARE EXPRESSED IN METRES
- 4. ACCESS TO PROPERTIES TO BE MADE AVAILABLE BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION.
- 5. PAVEMENT AREAS EXCLUDE PAVEMENT UNDER KERBS AND VERGES. REFER TO SHEET (PAVEMENT TYPICAL DETAILS SHEET) FOR DETAILS.
- 6. REFER TO SHEET RD-0007 FOR PAVEMENT PROFILES.
- 7. REFER TO MODEL DRAWING R0300-01 FOR KERB PROFILES.
- 8. REFER TO SHEETS RF-0001 AND RF-0008 FOR ROADSIDE FURNITURE, LINEMARKING & SAFETY BARRIER SETOUT DETAILS.





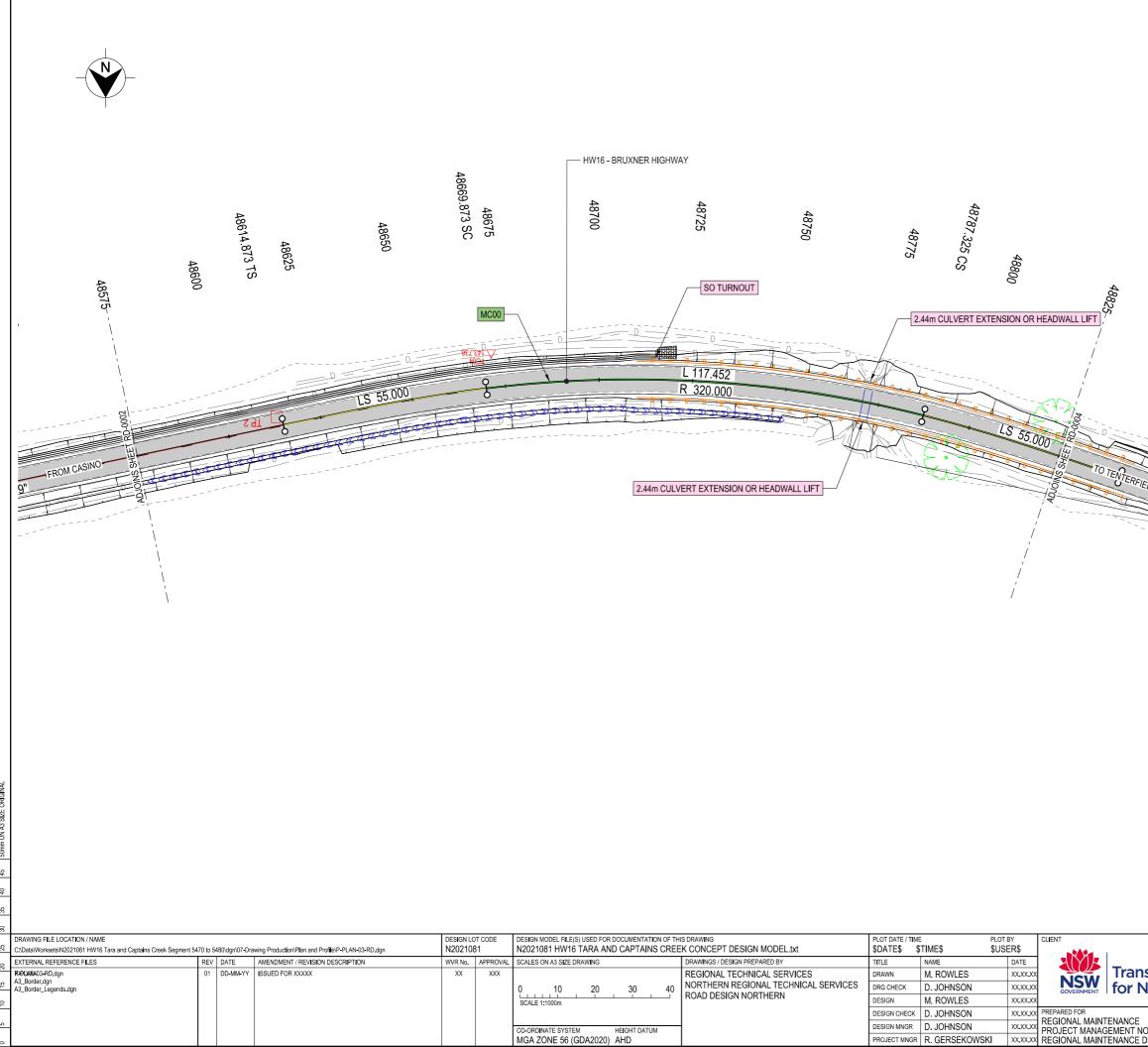
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	DRAWING FILE LOCATION / NAME C:IDataiWorksets/N2021081 HW16 Tara and Captains Creek Segment 54	70 to 5480\dgn\07-Dr	awing Production\Plan and Profile\P-PLAN-03-RD.dgn	DESIGN LO N202108		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THI N2021081 HW16 TARA AND CAPTAINS CREE		PLOT DATE / TIME \$DATE\$\$		PLOT BY \$USER\$	CLIENT	KYOGLE COUNCIL 16 - BRUXNER HIGHWAY	A3
0	EXTERNAL REFERENCE FILES	REV DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		PAVEMENT REHABILITATION AND WI	IDENING
	RYPLXXXK03-RD.dgn	01 DD-MM-YY	ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.X	Transport	SEGMENT 5470 TO 5480	
15	A3_Border_dgn A3_Border_Legends.dgn							DRG CHECK	D. JOHNSON	XX.XX.X	SOVERNMENT FOR NSW	DETAIL PLAN	
9						SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XX.XX.X		DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00	- CH.48325 TO CH.48575
								DESIGN CHECK	D. JOHNSON	XX.XX.X		RMS REGISTRATION NO. DS2022/000064	PART
2						CO-ORDINATE SYSTEM HEIGHT DATUM		DESIGN MNGR	D. JOHNSON	XX.XX.X	REGIONAL MAINTENANCE	ISSUE STATUS EDMS No.	SHEET NO ISSUE
0						MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWSK		REGIONAL MAINTENANCE DELIVERY	CONCEPT DESIGN qA6248429	RD-0002 A
													© Transport for NSW

LEGEN	D		GDA 🜈
MC??	<u> </u>	DESIGN CONTROL CALLOUT	2020
XXXX		CONSTRUCTION CALLOUT	
XXXX		UTILITY CALLOUT	
		EXISTING PAVEMENT	
		EXISTING PROPERTY FENCELINE	
		TREE TO BE RETAINED	
		TREE TO BE REMOVED	
Ø450		DRAINAGE PIPE	
		DRAINAGE HEADWALL	
$\Sigma \Sigma \Sigma \Sigma$	> >>	UNLINED CATCH DRAIN - GRASS	
		UNLINED CATCH DRAIN - ROCK	
1-1/1		UNLINED CATCH DRAIN - GRASS	
Ø4	450 :	EXISTING DRAINAGE PIPE	
		TEST PIT	
20			

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- 7. REFER TO MODEL DRAWING R0300-01 FOR KERB PROFILES.
- 8. REFER TO SHEETS RF-0001 AND RF-0008 FOR ROADSIDE FURNITURE, LINEMARKING & SAFETY BARRIER SETOUT DETAILS.



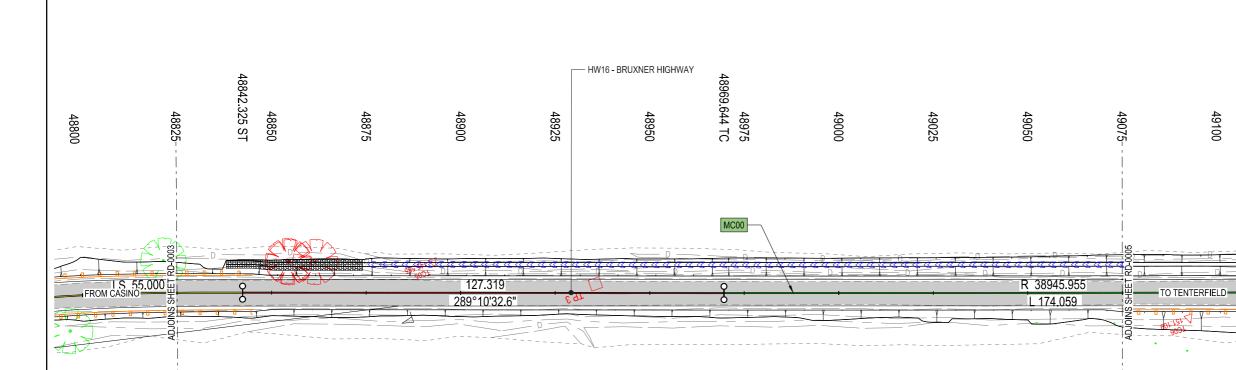
LEGEND		
MC??	DESIGN CONTROL CALLOUT	2020
XXXX —	CONSTRUCTION CALLOUT	
XXXX —	UTILITY CALLOUT	
	EXISTING PAVEMENT	
	EXISTING PROPERTY FENCELINE	
	TREE TO BE RETAINED	
	TREE TO BE REMOVED	
Ø450	DRAINAGE PIPE	
	DRAINAGE HEADWALL	
$\gg \gg \gg \gg \gg$	UNLINED CATCH DRAIN - GRASS	
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Ø450 :	EXISTING DRAINAGE PIPE	
	TEST PIT	



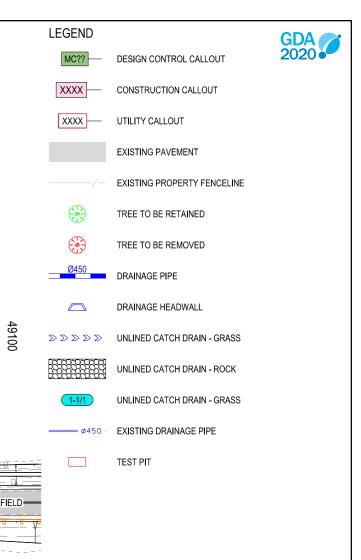
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	KYOGLE COUNCIL 16 - BRUXNER HIGHWAY			A3						
	PAVEMENT REHABILITATIO	ON AND WIDE	NING							
Isport	SEGMENT 5470 TO 5480									
VSW	DETAIL PLAN									
	DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - CH.48575 TO CH.48825									
	RMS REGISTRATION No. DS2022/000064									
IORTHERN	ISSUE STATUS	EDMS No.	SHEET No.	ISSUE						
DELIVERY	CONCEPT DESIGN	qA6248429	RD-0003	A						
		(	© Transport for	NSW						



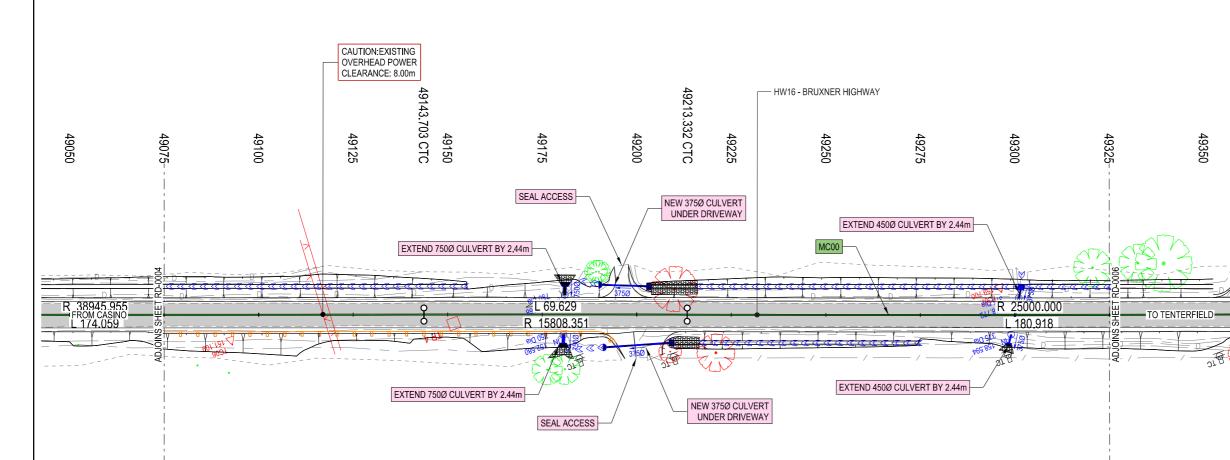


DRAWING FILE LOCATION / NAME C:DatalWorksetsIN2021081 HW16 Tara and Captains Creek Segment 5470 to 5480/dgn/07-Drawing Production/Plan and Profile/P-PLAN-03-RD.dgn	DESIGN LOT CODE N2021081	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF TH N2021081 HW16 TARA AND CAPTAINS CREE		PLOT DATE / TIME \$DATE\$ \$		USER\$	CLIENT	KYOGLE COUNCIL 16 - BRUXNER HIGHWAY	A3
EXTERNAL REFERENCE FILES         REV         DATE         AMENDMENT / REVISION DESCRIPTION           RX90X8X03-RD.dgn         01         DD-MM-YY         ISSUED FOR XXXXX           A3_Border_Legends.dgn         01         DD-MM-YY         ISSUED FOR XXXXX	WVR No. APPROVA XX XXX	L SCALES ON AS SIZE DRAWING 0 10 20 30 40 SCALE 1:1000m	DRAWINGS / DESIGN PREPARED BY REGIONAL TECHNICAL SERVICES NORTHERN REGIONAL TECHNICAL SERVICES ROAD DESIGN NORTHERN	DRG CHECK	NAME M. ROWLES D. JOHNSON M. ROWLES	DATE XX.XX.XX XX.XX.XX XX.XX.XX	SOVERNMENT FOR NSW	PAVEMENT REHABILITATION AND WIDEN SEGMENT 5470 TO 5480 DETAIL PLAN DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - CH.	
		CO-ORDINATE SYSTEM HEIGHT DATUM MGA ZONE 56 (GDA2020) AHD	-	DESIGN MNGR	D. JOHNSON D. JOHNSON R. GERSEKOWSKI		X PREPARED FOR REGIONAL MAINTENANCE PROJECT MANAGEMENT NORTHERN REGIONAL MAINTENANCE DELIVERY		PART 1 SHEET NO. ISSUE RD-0004 A © Transport for NSW



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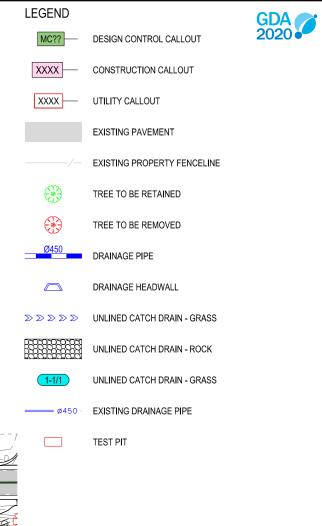






	DRAWING FILE LOCATION / NAME C:IDatalWorksets\N2021081 HW16 Tara and Captains Creek Segment 547(	0 to 5480\dgr	n\07 <b>-</b> Drav	wing Production\Plan and Profile\P-PLAN-03-RD.dgn	DESIGN LO N202108		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF TH N2021081 HW16 TARA AND CAPTAINS CREE		PLOT DATE / TIM \$DATE\$		PLOT BY \$USER\$		KYOGLE COUNCIL 16 - BRUXNER HIGHWAY			A3
, [	EXTERNAL REFERENCE FILES	REV DATE	E	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		PAVEMENT REHABILITATION	ON AND WID	ENING	
1	RXHXXXXX03-RD.dgn	01 DD-N	MM-YY	ISSUED FOR XXXXX	XX	XXX			DRAWN	M. ROWLES	XX.XX.X	Transport	SEGMENT 5470 TO 5480			
2	RXHDXXXX03-RD.dgn A3_Border.dgn A3_Border_Legends.dgn								DRG CHECK	D. JOHNSON	XX.XX.X	SOVERNMENT Iransport	DETAIL PLAN			
							SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XXXXXX		DETAIL PLAN - HW16 - BRUXNER HIG	HWAY - MC00 - 0	CH.49075 TO CH.493	25
									DESIGN CHECK	D. JOHNSON	XXXXXX		RMS REGISTRATION NO. DS2022/0	00064		PART
4							CO-ORDINATE SYSTEM HEIGHT DATUM		DESIGN MNGR	D. JOHNSON	XX.XX.X	REGIONAL MAINTENANCE PROJECT MANAGEMENT NORTHERN	ISSUE STATUS	EDMS No.	SHEET No.	ISSUE
,							MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWSK	I XX.XX.X	REGIONAL MAINTENANCE DELIVERY	CONCEPT DESIGN	qA6248429	SHEET NO. RD-0005	Ă
															© Transport for	NSW

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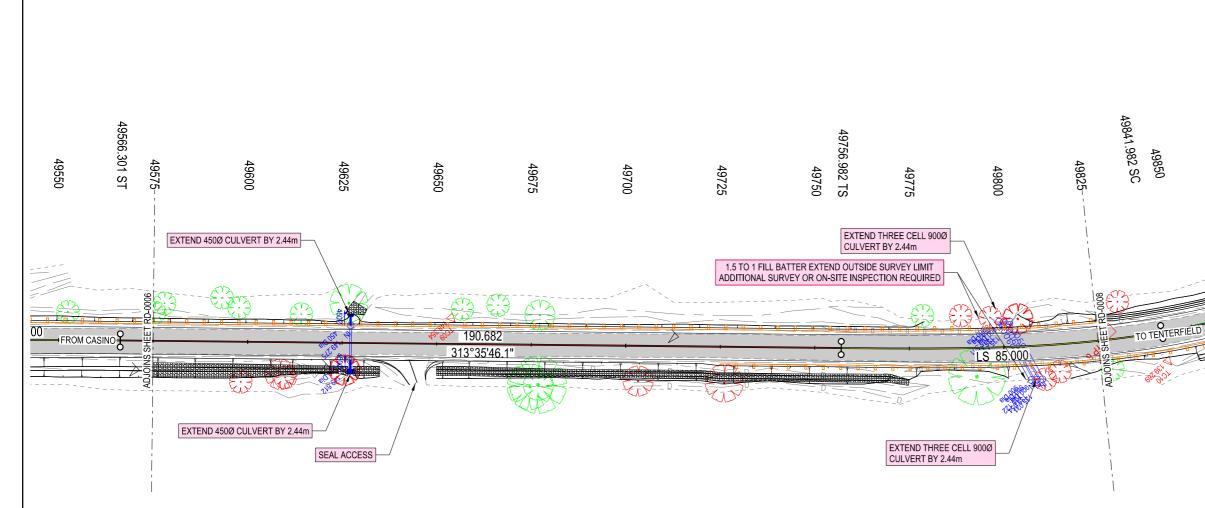
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							LEGEND	GDA 7
							MC?? — DESIGN CONTROL CALLOUT	2020
							XXXX CONSTRUCTION CALLOUT	
(M)							XXXX UTILITY CALLOUT	
							EXISTING PAVEMENT	
							EXISTING PROPERTY FENCELINE	
			40				TREE TO BE RETAINED	
	49		1449.24		4951		TREE TO BE REMOVED	
	49394.251 CS 49394.4937 4937	49425	49449.2 <b>\$</b> 94 <del>5</del> 0	49500 49475	495711.301 00		Ø450 DRAINAGE PIPE	
	49400 251 CS 49375 49375	5		80 D		49566.301 ST 49566.301 ST	DRAINAGE HEADWALL	
49325	375 49350					49575 56.301 ST 49550	$\gg$ $\gg$ $\gg$ $\gg$ $\gg$ UNLINED CATCH DRAIN - GRASS	
				EXTEND 450Ø CULVERT BY 2.44m	F	75-	UNLINED CATCH DRAIN - ROCK	
SI	EAL ACCESS		ATA			, ' /	1-1/1 UNLINED CATCH DRAIN - GRASS	
	m and a state	LS 55.000	The train Mart	L 62.050			W450 EXISTING DRAINAGE PIPE	
			0	R 270.000	LS 55.000	60	TEST PIT	
		1 1220200000		K		9		
R 25000 000 FROM CASINO		//				TO TENTERFIELD		
	Diff Kinthe gas			EXTEND 450Ø CULVERT BY 2.44m				
21 H							NOTES	
	SEAL ACCESS						<ol> <li>ALL WORKS TO BE CARRIED OUT IN ACCORDANCE QA SPECIFICIATIONS AND AUSTRALIAN STANDARE OTHERWISE STATED.</li> </ol>	E WITH CURRENT RMS DS UNLESS
							<ol> <li>CONTRACTOR TO CONFIRM LOCATION OF ALL SEF WORKS AND UNDERGROUND INFRASTRUCTURE F COMMENCING WORK. CONTRACTOR TO ENSURE / OF CONSTRUCTION AND PROPOSED WORKS WILL ALL SERVICES AND DRAINAGE WORKS, INCLUDING OVERHEAD POWER LINES.</li> </ol>	PRIOR TO ADOPTED METHOD L AVOID DAMAGE TO
							<ol> <li>ALL DIMENSIONS ARE IN METRES UNLESS NOTED LEVELS, METERAGES, CHAINAGES AND CO-ORDIN EXPRESSED IN METRES</li> </ol>	
							4. ACCESS TO PROPERTIES TO BE MADE AVAILABLE CONTRACTOR AT ALL TIMES DURING CONSTRUCT	
							5. PAVEMENT AREAS EXCLUDE PAVEMENT UNDER K REFER TO SHEET (PAVEMENT TYPICAL DETAILS S	KERBS AND VERGES.
							6. REFER TO SHEET RD-0007 FOR PAVEMENT PROFIL	,
							7. REFER TO MODEL DRAWING R0300-01 FOR KERB F	PROFILES.
							<ol> <li>REFER TO SHEETS RF-0001 AND RF-0008 FOR ROA LINEMARKING &amp; SAFETY BARRIER SETOUT DETAIL</li> </ol>	
							NOT FOR CON	STRUCTION
	gment 5470 to 5480/dgnl07-Drawing Production/Plan and Profile/P-PLAN-03-RD.dgn	N2021081 N20	SIGN MODEL FILE(S) USED FOR DOCUMENTATION OF TH 021081 HW16 TARA AND CAPTAINS CREI	EEK CONCEPT DESIGN MODEL.txt	\$DATE\$ \$TIME\$ \$US		KYOGLE COUNCIL 16 - BRUXNER HIGHWAY	A3
(TERNAL REFERENCE FILES BOXXX403-RD.dgn L_Border.dgn	REV         DATE         AMENDMENT / REVISION DESCRIPTION           01         DD-MM-YY         ISSUED FOR XXXXX	WVR No. APPROVAL SCAL XX XXX	ALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY REGIONAL TECHNICAL SERVICES	TITLE NAME DRAWN M. ROWLES		PAVEMENT REHABILITATION AND WID SEGMENT 5470 TO 5480	DENING
_Border_Legends.dgn			10 20 30 40 CALE 1:1000m	NORTHERN REGIONAL TECHNICAL SERVICES ROAD DESIGN NORTHERN	DRG CHECK D. JOHNSON DESIGN M. ROWLES	XX.XX.XX XX.XX.XX XX.XX.XX GOVERNMENT   for NSW	DETAIL PLAN DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - C	CH.49325 TO CH.49575
			ORDINATE SYSTEM HEIGHT DATUM	_	DESIGN CHECK D. JOHNSON DESIGN MNGR D. JOHNSON	XXXXXX PREPARED FOR REGIONAL MAINTENANCE XXXXXXX PROJECT MANAGEMENT NORTHERN	RMS REGISTRATION NO. DS2022/000064 ISSUE STATUS EDMS NO.	SHEET NO. ISSU RD-0006 A

LEGEND		GDA 🜈
MC??	DESIGN CONTROL CALLOUT	2020
XXXX	CONSTRUCTION CALLOUT	
XXXX —	UTILITY CALLOUT	
	EXISTING PAVEMENT	
	EXISTING PROPERTY FENCELINE	
	TREE TO BE RETAINED	
	TREE TO BE REMOVED	
Ø450	DRAINAGE PIPE	
	DRAINAGE HEADWALL	
$\gg \gg \gg \gg \gg$	UNLINED CATCH DRAIN - GRASS	
	UNLINED CATCH DRAIN - ROCK	
1-1/1	UNLINED CATCH DRAIN - GRASS	
<b>———</b> Ø450 :	EXISTING DRAINAGE PIPE	
	TEST PIT	



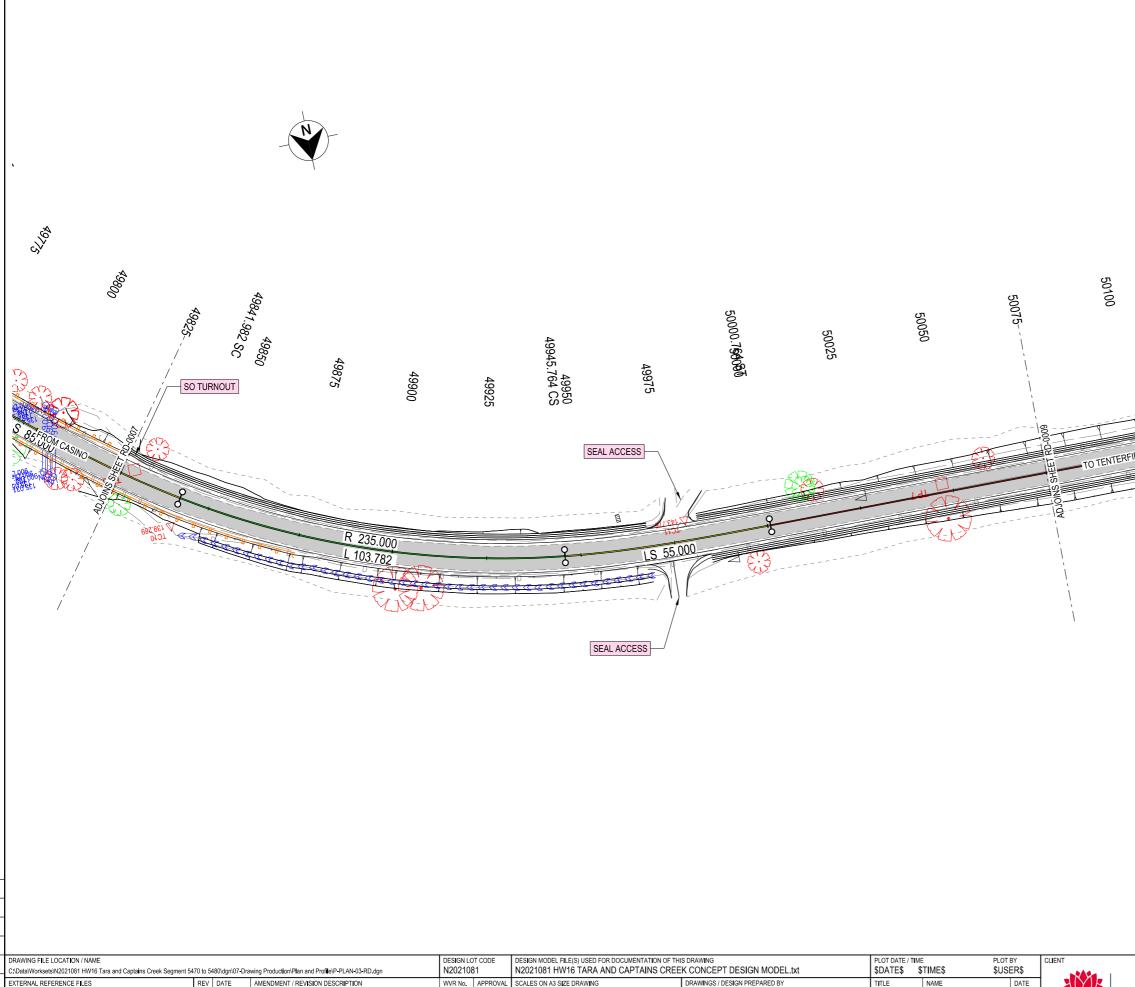




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DRAWING FILE LOCATION / NAME		DESIGN LOT		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF TH		PLOT DATE / TIM		PLOT BY	CLIENT	KYOGLE COUNCIL	A	13
C \Data\Worksets\N2021081 HW16 Tara and Captains Creek Segment 54	470 to 5480\dgn\07-Drawing Production\Plan and Profile\P-PLAN-03-RD.dgn	N2021081	1	N2021081 HW16 TARA AND CAPTAINS CREE	EK CONCEPT DESIGN MODEL.txt	\$DATE\$	\$TIME\$	\$USER\$		16 - BRUXNER HIGHWAY	7.4	<u> </u>
EXTERNAL REFERENCE FILES	REV DATE AMENDMENT / REVISION DESCRIPTION	WVR No. A	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		PAVEMENT REHABILITATION	N AND WIDENING	
RYPLANK403-RD.dgn	01 DD-MM-YY ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.X	Transport	SEGMENT 5470 TO 5480		
RXPLXXX03-RD.dgn       A3_Border.dgn       A3_Border_Legends.dgn				0 10 20 30 40	NORTHERN REGIONAL TECHNICAL SERVICES	DRG CHECK	D. JOHNSON	XX.XX.X		DETAIL PLAN		
				SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XX.XX.X		DETAIL PLAN - HW16 - BRUXNER HIGHV	WAY - MC00 - CH.49575 TO CH.49825	
-						DESIGN CHECK	D. JOHNSON	XX.XX.X		RMS REGISTRATION NO. DS2022/00	0064	ART
4				CO-ORDINATE SYSTEM HEIGHT DATUM	-	DESIGN MNGR	D. JOHNSON	XX.XX.X	REGIONAL MAINTENANCE	· · · · · · · · · · · · · · · · · · ·		2011E
				MGA ZONE 56 (GDA2020) AHD		L	R. GERSEKOWSK				EDMS No. SHEET No. ISSI A6248429 RD-0007 A	\$0E <b>\</b>
											© Transport for NS	ЗW

LEGEND		GDA 🜈
MC??	DESIGN CONTROL CALLOUT	2020
XXXX —	CONSTRUCTION CALLOUT	
XXXX —	UTILITY CALLOUT	
	EXISTING PAVEMENT	
	EXISTING PROPERTY FENCELINE	
	TREE TO BE RETAINED	
	TREE TO BE REMOVED	
Ø450	DRAINAGE PIPE	
	DRAINAGE HEADWALL	
$\gg \gg \gg \gg \gg$	UNLINED CATCH DRAIN - GRASS	
	UNLINED CATCH DRAIN - ROCK	
1-1/1	UNLINED CATCH DRAIN - GRASS	
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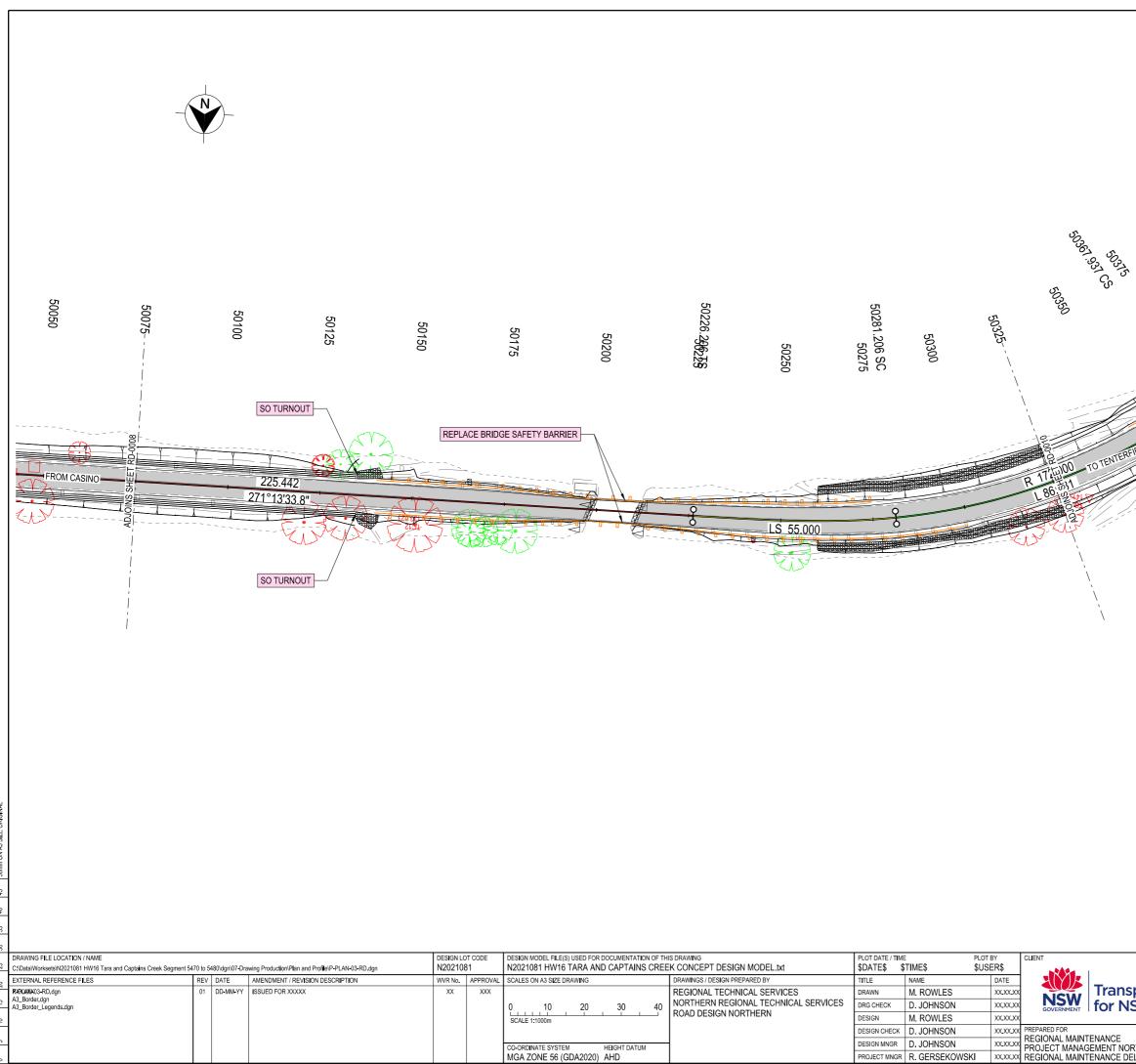


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DRAWING FILE LOCATION / NAME C:DataiWorksetsiN2021081 HW16 Tara and Captains Creek Segment 5470 to 5480idgni07-Drawing Production/Plan and Profile/P-PLAN-03-RD.dgn					LOT CODE 081	DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING N2021081 HW16 TARA AND CAPTAINS CREEK CONCEPT DESIGN MODEL.txt			<sup>ME</sup> \$TIME\$	PLOT BY \$USER\$	CLIENT	KYOGLE COUNCIL 16 - BRUXNER HIGHWAY			
EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		PAVEMENT REHABILITATION AND WI	DENING		
RXXXXXXX03-RD.dgn	01	DD-MM-YY	ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.X	Transport	SEGMENT 5470 TO 5480			
RXPXXXX03-RD.dgn       A3_Border.dgn       A3_Border_Legends.dgn							NORTHERN REGIONAL TECHNICAL SERVICES	DRG CHECK	D. JOHNSON	XX XX X	GOVERNMENT FOR NSW	DETAIL PLAN			
						SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XX.XX.X		DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 -	CH.49825 TO CH.50075		
1								DESIGN CHECK	D. JOHNSON			RMS REGISTRATION NO. DS2022/000064	PART 1		
-						CO-ORDINATE SYSTEM HEIGHT DATUM	-	DESIGN MNGR	D. JOHNSON	XX.XX.X	REGIONAL MAINTENANCE	ISSUE STATUS EDMS No.	SHEET No. ISSUE		
						MGA ZONE 56 (GDA2020) AHD		PROJECT MNG	R R. GERSEKOWS	SKI XX.XX.X	REGIONAL MAINTENANCE DELIVERY	CONCEPT DESIGN qA6248429	RD-0008 A		
													© Transport for NSW		

LEGEND		GDA 💦
MC??	DESIGN CONTROL CALLOUT	2020
XXXX —	CONSTRUCTION CALLOUT	
XXXX —	UTILITY CALLOUT	
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	EXISTING PROPERTY FENCELINE	
	TREE TO BE RETAINED	
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Ø450	DRAINAGE PIPE	
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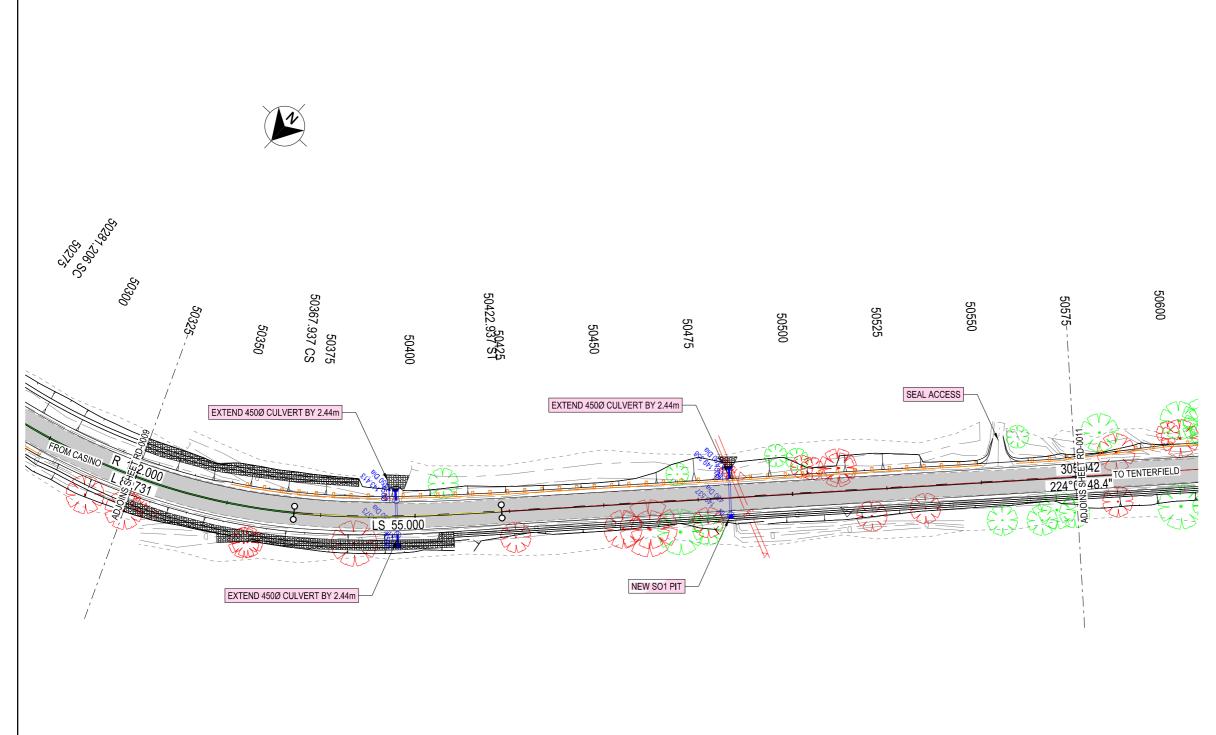
MGA ZONE 56 (GDA2020) AHD

PROJECT MNGR R. GERSEKOWSKI

LEGEND		GDA 💦
MC??	DESIGN CONTROL CALLOUT	2020
XXXX	CONSTRUCTION CALLOUT	
XXXX —	UTILITY CALLOUT	
	EXISTING PAVEMENT	
	EXISTING PROPERTY FENCELINE	
E B	TREE TO BE RETAINED	
	TREE TO BE REMOVED	
Ø450	DRAINAGE PIPE	
	DRAINAGE HEADWALL	
$\Sigma \Sigma \Sigma \Sigma \Sigma \Sigma$	UNLINED CATCH DRAIN - GRASS	
	UNLINED CATCH DRAIN - ROCK	
1-1/1	UNLINED CATCH DRAIN - GRASS	
<b>——</b> Ø450 :	EXISTING DRAINAGE PIPE	
	TEST PIT	

- 1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT RMS QA SPECIFICIATIONS AND AUSTRALIAN STANDARDS UNLESS OTHERWISE STATED.
- 2. CONTRACTOR TO CONFIRM LOCATION OF ALL SERVICES, DRAINAGE WORKS AND UNDERGROUND INFRASTRUCTURE PRIOR TO COMMENCING WORK. CONTRACTOR TO ENSURE ADOPTED METHOD OF CONSTRUCTION AND PROPOSED WORKS WILL AVOID DAMAGE TO ALL SERVICES AND DRAINAGE WORKS, INCLUDING CLEARANCES TO OVERHEAD POWER LINES.
- 3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. ALL LEVELS, METERAGES, CHAINAGES AND CO-ORDINATES ARE EXPRESSED IN METRES
- 4. ACCESS TO PROPERTIES TO BE MADE AVAILABLE BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION.
- 5. PAVEMENT AREAS EXCLUDE PAVEMENT UNDER KERBS AND VERGES. REFER TO SHEET (PAVEMENT TYPICAL DETAILS SHEET) FOR DETAILS.
- 6. REFER TO SHEET RD-0007 FOR PAVEMENT PROFILES.
- 7. REFER TO MODEL DRAWING R0300-01 FOR KERB PROFILES.
- 8. REFER TO SHEETS RF-0001 AND RF-0008 FOR ROADSIDE FURNITURE, LINEMARKING & SAFETY BARRIER SETOUT DETAILS.

isport NSW	KYOGLE COUNCIL 16 - BRUXNER HIGHWAY PAVEMENT REHABILITATION AND WIDENING SEGMENT 5470 TO 5480 DETAIL PLAN DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - CH.50075 TO CH.5032							
	RMS REGISTRATION NO. DS2022/000064							
IORTHERN	ISSUE STATUS	EDMS No.	SHEET No.	ISSUE				
DELIVERY	CONCEPT DESIGN qA6248429 RD-0009							
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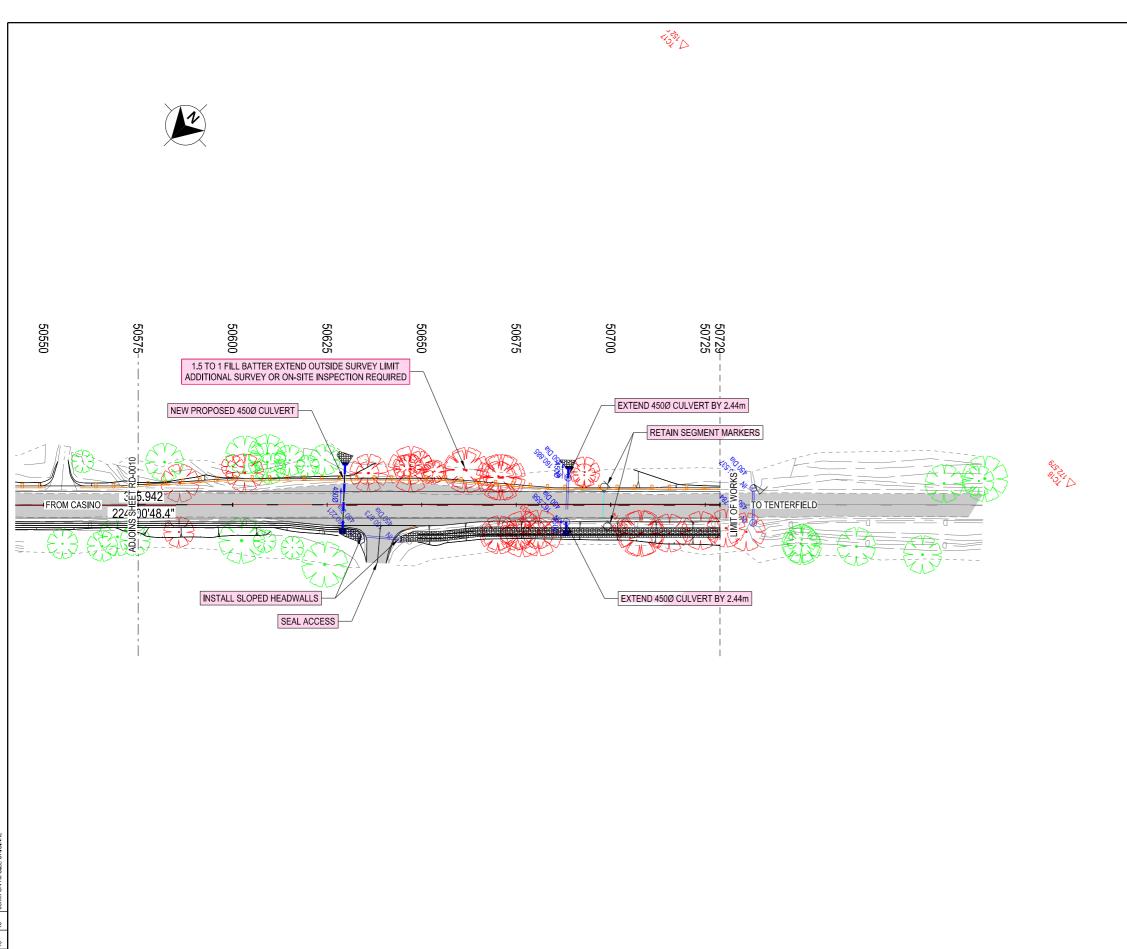


DRAWING FILE LOCATION / NAME						DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING				OT BY	CLIENT	
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		
RYPCXXXX03-RD.dgn	01	DD-MM-YY	ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.XX	Tra	ansp
A3_Border.dgn A3_Border_Legends.dgn							NORTHERN REGIONAL TECHNICAL SERVICES	DRG CHECK	D. JOHNSON	XX.XX.XX	NSW GOVERNMENT FO	r NS
						SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XX.XX.XX		_
								DESIGN CHECK	D. JOHNSON	XX.XX.XX	PREPARED FOR	
						CO-ORDINATE SYSTEM HEIGHT DATUM		DESIGN MNGR	D. JOHNSON	XX.XX.X	REGIONAL MAINTENAN PROJECT MANAGEMEN	
						MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWSKI	XX.XX.XX	REGIONAL MAINTENAN	CE DEL

LEGEND		GDA 💦
MC??	DESIGN CONTROL CALLOUT	2020
XXXX —	CONSTRUCTION CALLOUT	
XXXX —	UTILITY CALLOUT	
	EXISTING PAVEMENT	
	EXISTING PROPERTY FENCELINE	
	TREE TO BE RETAINED	
	TREE TO BE REMOVED	
Ø450	DRAINAGE PIPE	
	DRAINAGE HEADWALL	
$\gg \gg \gg \gg \gg$	UNLINED CATCH DRAIN - GRASS	
	UNLINED CATCH DRAIN - ROCK	
1-1/1	UNLINED CATCH DRAIN - GRASS	
<b>——</b> Ø450 :	EXISTING DRAINAGE PIPE	
	TEST PIT	

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- 8. REFER TO SHEETS RF-0001 AND RF-0008 FOR ROADSIDE FURNITURE, LINEMARKING & SAFETY BARRIER SETOUT DETAILS.

isport NSW	KYOGLE COUNCIL 16 - BRUXNER HIGHWAY PAVEMENT REHABILITATION AND WIDENING SEGMENT 5470 TO 5480 DETAIL PLAN DETAIL PLAN DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - CH.50325 TO CH.5057						
	RMS REGISTRATION No. DS2022/000064						
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DELIVERY	CONCEPT DESIGN qA6248429 RD-0010						
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DRAWING FILE LOCATION / NAME					DESIGN LOT CODE		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING			ME	PLOT BY	CI	LIENT	
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I	EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		R	1_
	RXPLXXXK03-RD.dgn	01	DD-MM-YY	ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.	(.XX	NICIA	Trans
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I							SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XX.XX.	xx		-
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I							MGA ZONE 56 (GDA2020) AHD		PROJECT MNG	R R. GERSEKOWS			REGIONAL MAINT	

LEGEND		GDA 💦
MC??	DESIGN CONTROL CALLOUT	2020
XXXX	CONSTRUCTION CALLOUT	
XXXX —	UTILITY CALLOUT	
	EXISTING PAVEMENT	
	EXISTING PROPERTY FENCELINE	
	TREE TO BE RETAINED	
	TREE TO BE REMOVED	
Ø450	DRAINAGE PIPE	
	DRAINAGE HEADWALL	
$\gg$ $\gg$ $\gg$ $\gg$ $\gg$	UNLINED CATCH DRAIN - GRASS	
	UNLINED CATCH DRAIN - ROCK	
1-1/1	UNLINED CATCH DRAIN - GRASS	
<b>———</b> Ø450 :	EXISTING DRAINAGE PIPE	
	TEST PIT	

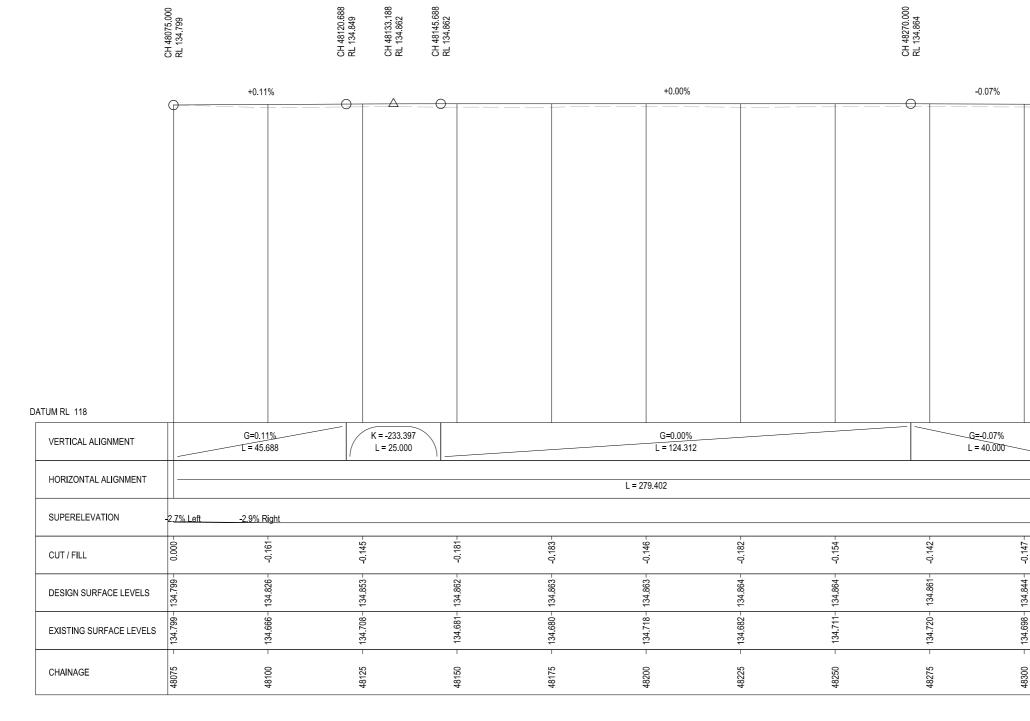
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	KYOGLE COUNCIL 16 - BRUXNER HIGHWAY			A3					
sport NSW	PAVEMENT REHABILITATION AND WIDENING SEGMENT 5470 TO 5480 DETAIL PLAN DETAIL PLAN - HW16 - BRUXNER HIGHWAY - MC00 - CH.50575 TO CH.50729								
	RMS REGISTRATION NO. DS2022/00	00064		PART					
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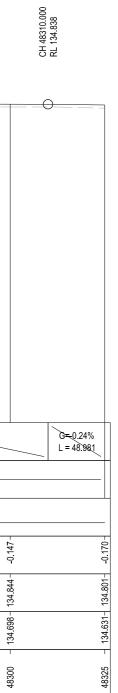
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0	EXTERNAL REFERENCE FILES	REV DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE	A Y I R		PAVEMENT REHAB	ILITATION AND WIE	DENING	
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								DESIGN CHECK	D. JOHNSON	XX.XX.XX	PREPARED FOR		RMS REGISTRATION NO. DS2	022/000064		PART 1
2						CO-ORDINATE SYSTEM HEIGHT DATUM	-	DESIGN MNGR	D. JOHNSON	XX.XX.XX	REGIONAL MAINT	GEMENT NORTHERN	ISSUE STATUS	EDMS No.	SHEET No.	ISSUE
0						MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWS	KI XX.XX.XX	REGIONAL MAINT	TENANCE DELIVERY	CONCEPT DESIGN	qA6248429	SHEET NO. RD-0001	A
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CH 48460 115 RL 136 565 CH 48438 435 RL 135 847 CH 48414 902 CH 48414 902 CH 135 343 RL 135 343 CH 48358.981 RL 134.719 LP CH 48364.281 RL 134.712 CH 48386.941 RL 134.651 +3.31% 0 +2.32% A -0.24% 00  $\Delta$ DATUM RL 121 G=2.32% L = 1.853 K = 21.788 L = 55.921 G=-0.24% L = 48.981 G=3.31% L = 130.881 K = 43.819 VERTICAL ALIGNMENT L = 43.361 R = 30000.000 L = 102.501 HORIZONTAL ALIGNMENT L = 279.402 L = 157.970 SUPERELEVATION -3.0% Left -3.0% Right -0.154 --0.162 --0.175 --0.170--0.139 --0.195 --0.136 --0.137 156 CUT / FILL 9 135.543-134.741-134.739-135.005 -136.242-138.715-134.801 137.887 -058 DESIGN SURFACE LEVELS 137. 135.389-136.103-134.631-134.578-134.602 -134.830-136.863 -137.750-138.558 -EXISTING SURFACE LEVELS 48425 48325 48350 48375 48400 48450 48475 48500 48525 CHAINAGE

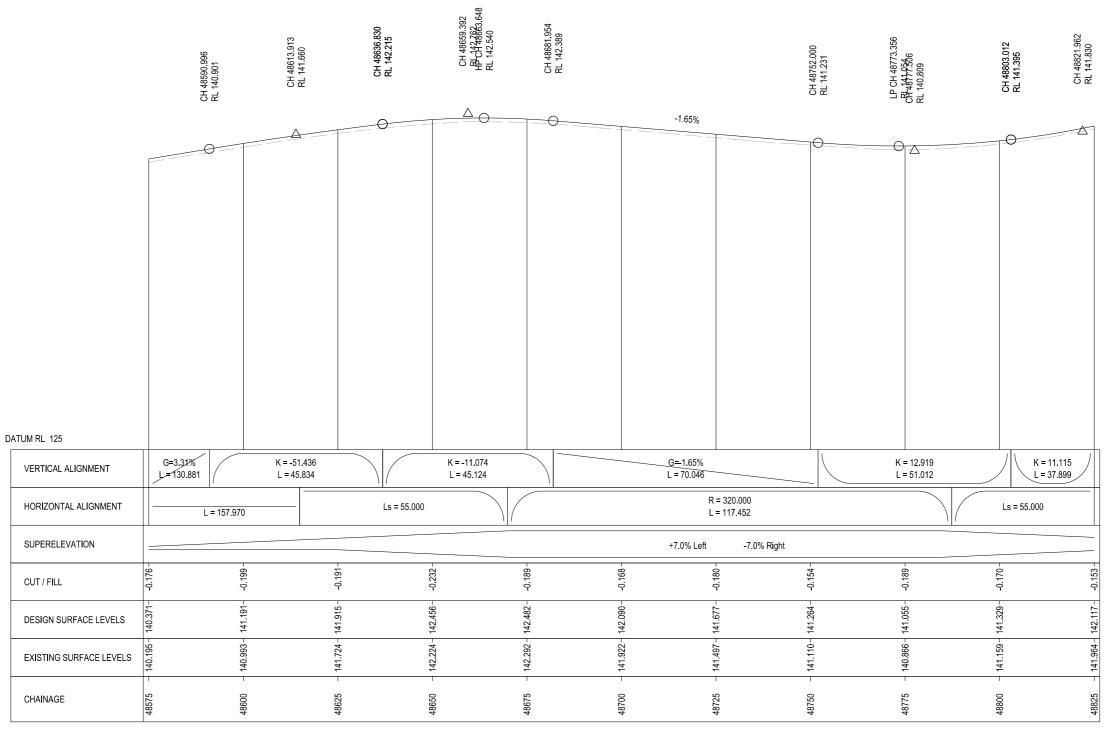
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7	C \Data\Worksets\N2021081 HW16 Tara and Captains Creek Segment 54	70 to 5480\dgn\07-D	rawing Production\Plan and Profile\P-PLAN-03-RD.dgn	N20210	81	N2021081 HW16 TARA AND CAPTAINS CREE	K CONCEPT DESIGN MODEL.txt	\$DATE\$	\$TIME\$	\$USER\$			16 - BRUXNER HIGHWAY		· · · ·
S	EXTERNAL REFERENCE FILES	REV DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE			PAVEMENT REHABI	LITATION AND WID	ENING
,	XX2800Mer.dgn P-PLAN-03-RD.dgn	01 DD-MM-YY	ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.X		ansport	SEGMENT 5470 TO S	5480	
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ĉ								DESIGN MNGR	D. JOHNSON	XX.XX.XX	REGIONAL MAINTENAN				
0						CO-ORDINATE SYSTEM HEIGHT DATUM MGA ZONE 56 (GDA2020) AHD			R. GERSEKOWS		REGIONAL MAINTENAN		ISSUE STATUS CONCEPT DESIGN	EDMS No. qA6248429	RD-0002 A
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2							SCALE 1:1000m	DESIGN	M. ROWLES	XX.XX.XX	
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ç							CO-ORDINATE SYSTEM HEIGHT DATUM	DESIGN MNGR	D. JOHNSON	XX.XX.XX	REGIONAL MAINTENANCE PROJECT MANAGEMENT NORTHERN
0							MGA ZONE 56 (GDA2020) AHD	PROJECT MNGR	R. GERSEKOWS	KI XX.XX.XX	REGIONAL MAINTENANCE DELIVERY
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KYOGLE COUNCIL 16 - BRUXNER HIGHWA	Y			A3				
SEGMENT 5470 1								
LONGITUDINAL S LONG SECTION - HW16		IGHWAY - MC0	0 - CH.48575 TO CH	. 48825				
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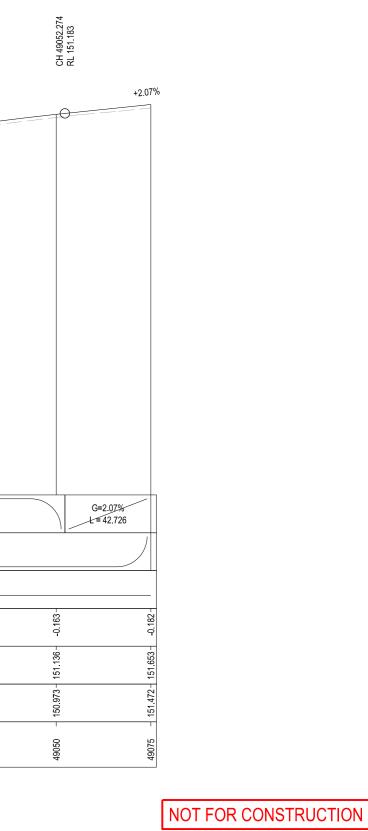
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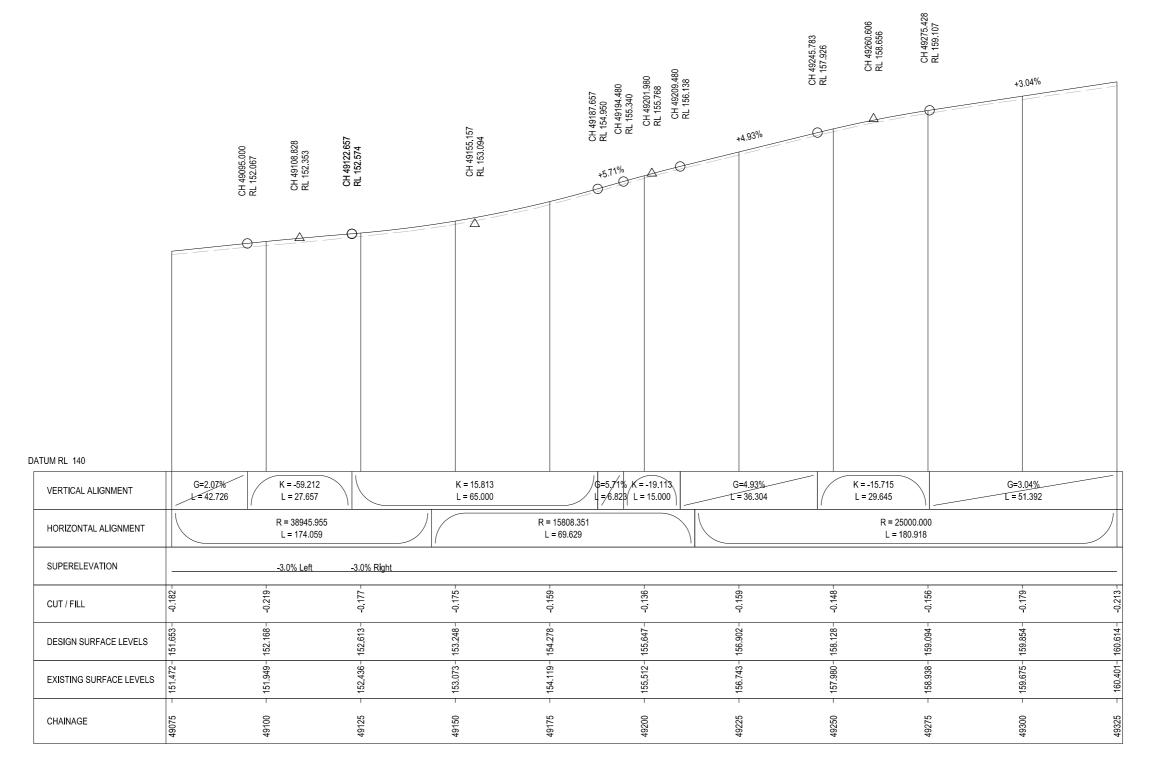
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	EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE			PAVEMENT REHABILITA	TION AND WID	ENING	
	XX∑BO0Mer.dgn P-PLAN-03-RD.dgn	01	DD-MM-YY	ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.XX		Transport	SEGMENT 5470 TO 5480	)		
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2							CO-ORDINATE SYSTEM HEIGHT DATUM		DESIGN MNGR	D. JOHNSON	XX.XX.XX	REGIONAL MAINTEN PROJECT MANAGEN	MANCE MENT NORTHERN	ISSUE STATUS	EDMS No.	SHEET No.	SSUE
0							MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWS	KI XX.XX.XX	X REGIONAL MAINTEN	NANCE DELIVERY	CONCEPT DESIGN	qA6248429	SHEET NO. RD-0004	А
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DATUM RL 131	CH 48840.911	+5.71%	CH 4866.001 RL 144.456 CH 48880.501 RL 145.170	CH 48893.001 RL 145.669 RL 145.669	CH 48920.000 RL 146.747	+3.67%			
VERTICAL ALIGNMENT	K = 11.115 L = 37.899	G=5.71% t=27.090	K = -14.612 L = 25.000	G=3.99%		G=3.67% L = 80.274			K = -32.480 L = 52.000
HORIZONTAL ALIGNMENT	Ls = 55.000			L = 127.319			_		R = 38945.955 L = 174.059
SUPERELEVATION									
CUT / FILL	-0.153 -	-0.165 -	-0.159 -	-0.166 -	-0.220 -	-0.174 -	-0.162 -	-0.147 -	-0.170 -
	142.117 -	143.429 -	144.839 -	145.948 -	146.931-	147.848 -	148.765 -	149.682 -	150.505 -
EXISTING SURFACE LEVELS	- 141.964 -	143.265 -	144.680 -	145.782 -	146.711-	147.674 -	148.603 -	149.535 -	150.335 -
CHAINAGE	48825	48850	48875	- 48900	48925	48950 -	48975	49000 -	49025

CH 49000.274 RL 149.692



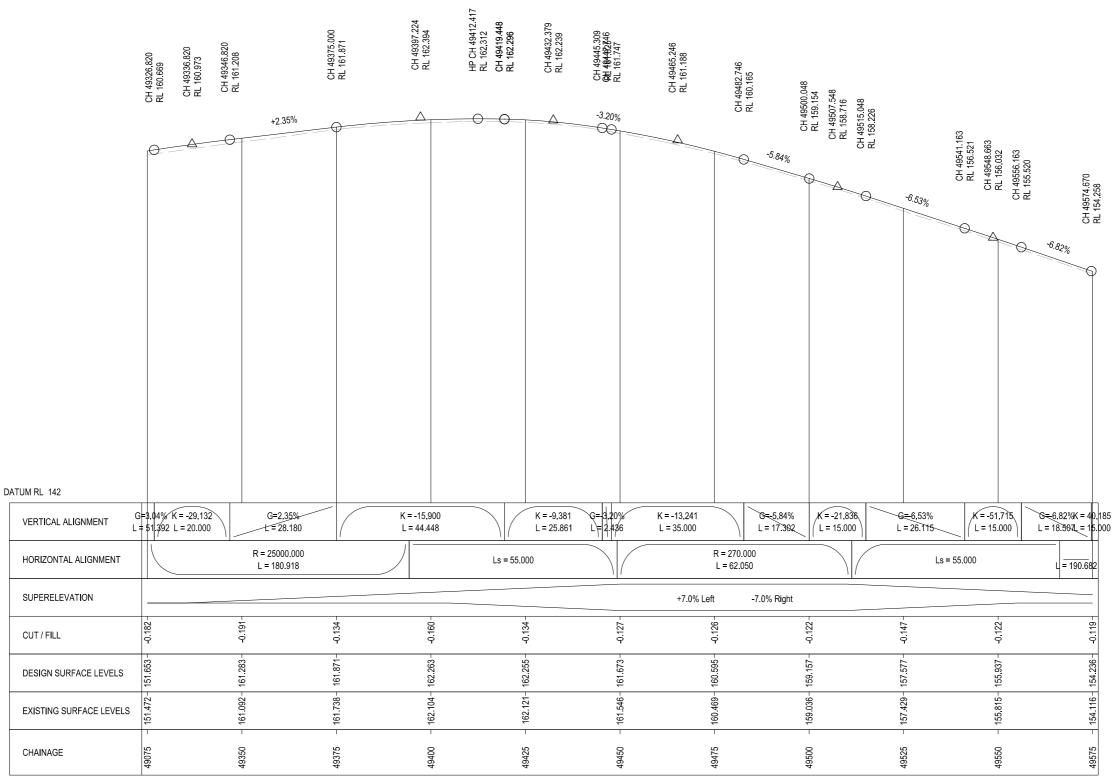




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2	EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE	
	XX2806Xer.dgn P-PLAN-03-RD.dgn	01	DD-MM-YY	ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.XX	
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<u>,</u>							CO-ORDINATE SYSTEM HEIGHT DATUM		DESIGN MNGR	D. JOHNSON	XX.XX.XX	REGIONAL MAINTENANCE PROJECT MANAGEMENT NORTHERN
5							MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWS		REGIONAL MAINTENANCE DELIVERY



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KYOGLE COUNCIL 16 - BRUXNER HIGHWAY				A3							
PAVEMENT REHABILITATION AND WIDENING											
SEGMENT 5470 TO											
LONGITUDINAL SE LONG SECTION - HW16 -				40005							
			- CH 49075 TO CH								
RMS REGISTRATION NO. DS2022/000064											
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~	DRAWING FILE LOCATION / NAME				DESIGN LO		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF TH		PLOT DATE / TIM		PLOT BY	CLIENT
N	C:\Data\Worksets\N2021081 HW16 Tara and Captains Creek Segment 54	70 to 5	480\dgn\07-Dra	wing Production Plan and Profile P-PLAN-03-RD.dgn	N202108	51	N2021081 HW16 TARA AND CAPTAINS CREE	K CONCEPT DESIGN MODEL.txt	\$DATE\$	\$TIME\$	\$USER\$	
2	EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE	
. ч	XXXB00Xer.dgn P-PLAN-03-RD.dgn	01	DD-MM-YY	ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.X	Transport
ŝ	P-PLAN-03-RD.ogn							NORTHERN REGIONAL TECHNICAL SERVICES	DRG CHECK	D. JOHNSON	XX.XX.X	SOVERNMENT FOR NSW
2							SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XX.XX.X	
									DESIGN CHECK	D. JOHNSON	XX.XX.X	
0							CO-ORDINATE SYSTEM HEIGHT DATUM		DESIGN MNGR	D. JOHNSON	XX.XX.X	REGIONAL MAINTENANCE PROJECT MANAGEMENT NORTHERN
0							MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWS		REGIONAL MAINTENANCE DELIVERY



		NOT F	OR CONS	TRUCTIO	N
t	KYOGLE COUNCIL 16 - BRUXNER HIGHWA PAVEMENT REH/ SEGMENT 5470 T LONGITUDINAL S LONG SECTION - HW16	ABILITATIO FO 5480 SECTION			A3
	RMS REGISTRATION NO. DS	52022/0	00064		PART 1
1	ISSUE STATUS CONCEPT DESIGN		EDMS No. qA6248429	SHEET NO. RD-0006	ISSUE A

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. 8											
	DRAWING FILE LOCATION / NAME C:\Data\Worksets\N2021081 HW16 Tara and Captains Creek Segment 5-	470 to 5480\dgn\0	7-Drawing Production∖Plan and Profile∖P-PLAN-03-RD.dgn	DESIGN LOT CODE N2021081			DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING N2021081 HW16 TARA AND CAPTAINS CREEK CONCEPT DESIGN MODEL.txt			PLOT BY \$USER\$	CLIENT
	EXTERNAL REFERENCE FILES	REV DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE	
	XXX9804Xer.dgn	01 DD-MM	YY ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.XX	Transport
15	P-PLAN-03-RD.dgn					0 10 20 30 40	NORTHERN REGIONAL TECHNICAL SERVICES	DRG CHECK	D. JOHNSON	XX.XX.XX	SOVERNMENT FOR NSW
6						SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XX.XX.XX	
_	1							DESIGN CHECK	D. JOHNSON		
<u></u>	4					CO-ORDINATE SYSTEM HEIGHT DATUM	-	DESIGN MNGR	D. JOHNSON	XX.XX.XX	REGIONAL MAINTENANCE PROJECT MANAGEMENT NORTHERN
0						MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWS	KI XX.XX.XX	REGIONAL MAINTENANCE DELIVERY

					-7.89%		CH 49715.000 RU 144.045 CH 49720.000 RU 143.050 CH 49726.000 RL 143.237 CH 49736.632 CH 49736.632	RL 142.276 CH 49754.781 RL 140.777	CH 49772.929 RL 139.939 CH 49772.929 RL 139.504
UM RL 130 VERTICAL ALIGNMENT	K = 40.185	G=-6.45% L = 34.048	K=-1 L=25		<u>G=-7.89%</u> L = 66.282		K = -27.031 G=-8.26% L = 10.000 L = 11.632	K = 9.948 L = 36.297	
HORIZONTAL ALIGNMENT				L=	190.682				
SUPERELEVATION				-3.0% Right		-3.0% Left			
CUT / FILL	-0.119-	-0.132 -	-0.140 -	-0.167 -	-0.156 -	-0.153 -	-0.158 -	-0.121-	-0.145 -
DESIGN SURFACE LEVELS	154.236 -	152.597 -	150.985 -	149.175 -	147.202 -	145.229 -	143.237 -	141.261-	139.847 -
EXISTING SURFACE LEVELS	- 154.116 -	- 152.466 -	- 150.845 -	- 149.008 -	- 147.046 -	- 145.076 -	- 143.080 -	- 141.140 -	- 139.701-
CHAINAGE	49575 -	49600 -	49625 -	49650 -	49675	- 49700	49725 -	49750 -	49775 -

CH 49582.170 RL 153.747 CH 49589.670 RL 153.263

0

-6.45%

A

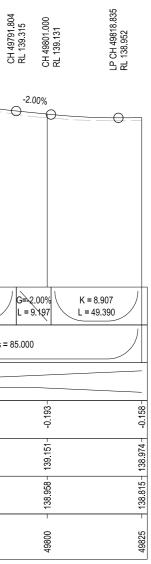
CH 49623.718 RL 151.068

0

CH 49636.218 RL 150.263

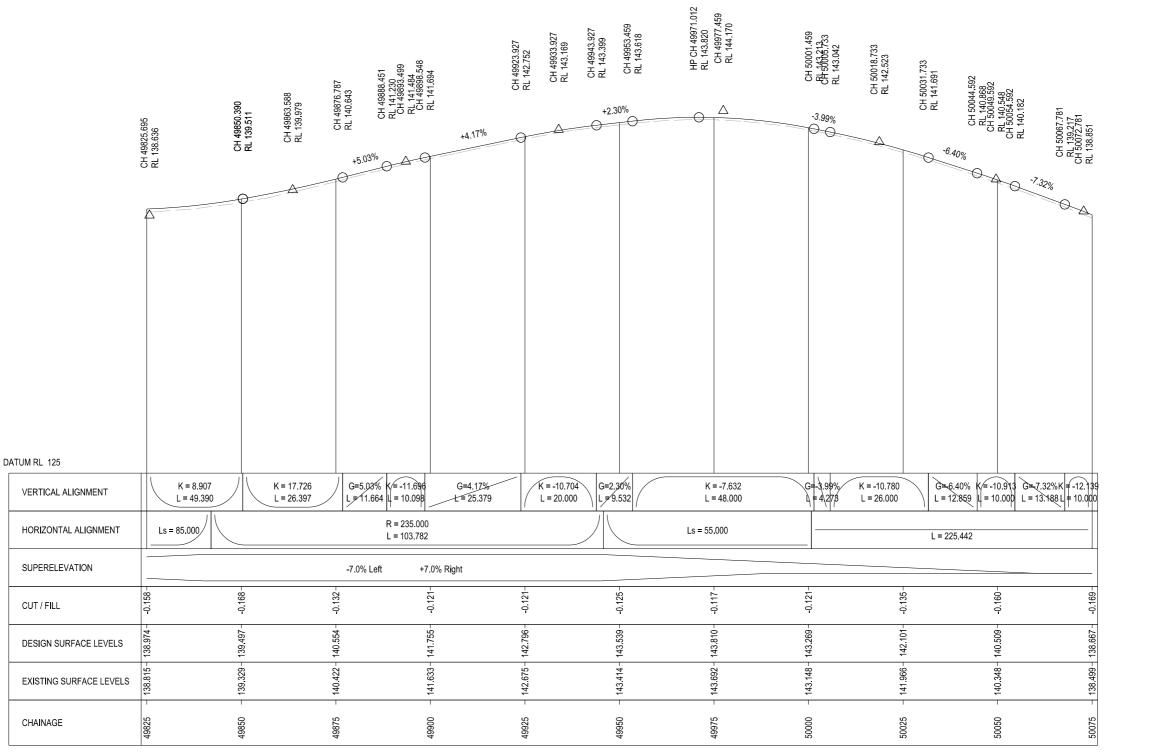
CH 49648.718 RL 149.276





NOT FOR CONSTRUCTION									
KYOGLE COUNCIL 16 - BRUXNER HIGHWA	v			A3					
PAVEMENT REH	ABILITATIO	ON AND WID	ENING						
SEGMENT 5470 1									
LONGITUDINAL S									
LONG SECTION - HW16	- BRUXNER H	IGHWAY - MC00	- CH 49575 TO CH.	49825					
RMS REGISTRATION NO. DS	62022/0	00064		PART					
ISSUE STATUS		EDMS No.	SHEET No.	ISSUE					
CONCEPT DESIGN		qA6248429	I RD-0007	IA I					

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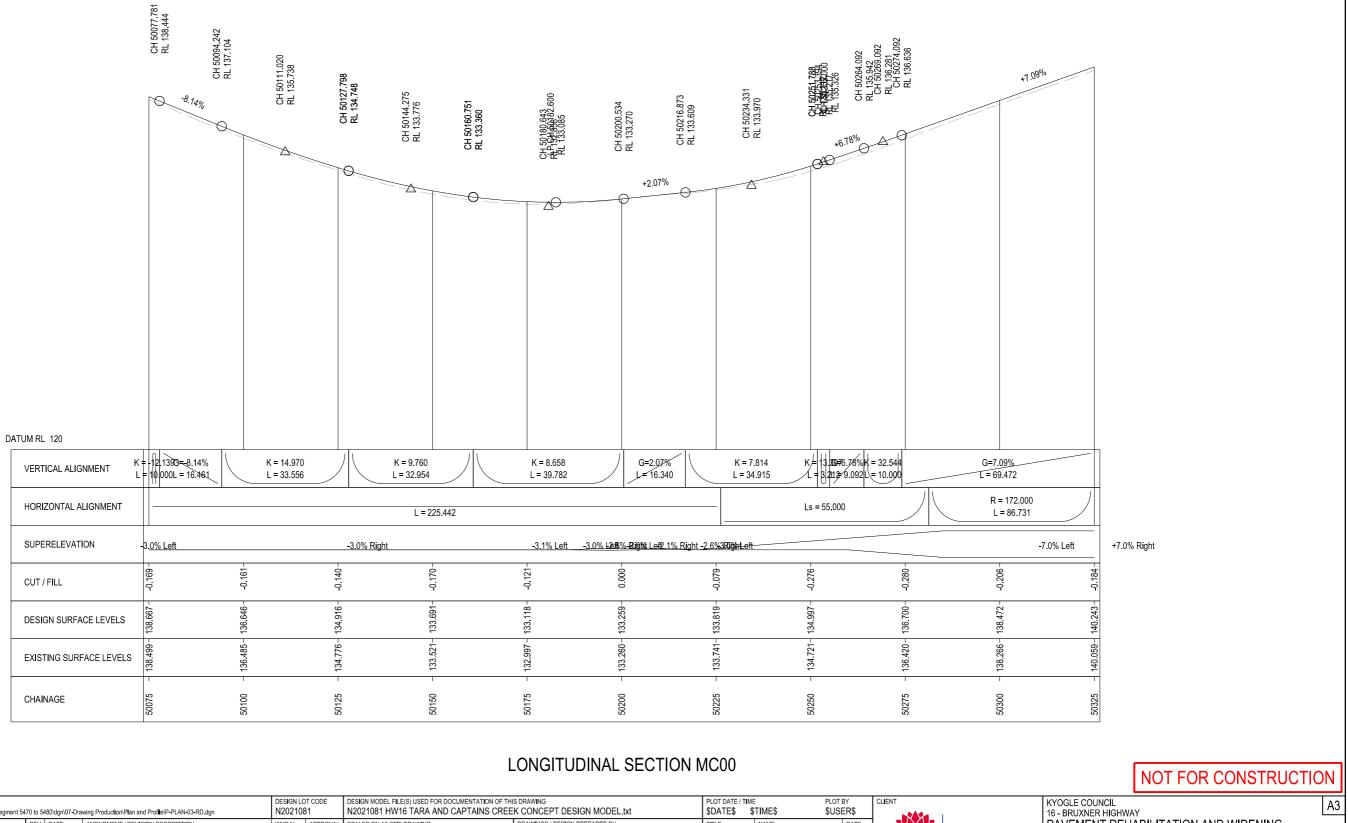


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	DRAWING FILE LOCATION / NAME				DESIGN LC		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING	PLOT DATE / TIN		PLOT BY	CLIENT
22	C:\Data\Worksets\N2021081 HW16 Tara and Captains Creek Segment 547	70 to 54	480\dgn\07-Dra	wing Production\Plan and Profile\P-PLAN-03-RD dgn	N202108	31	N2021081 HW16 TARA AND CAPTAINS CREEK CONCEPT DESIGN MODEL.txt	\$DATE\$	\$TIME\$	\$USER\$	
2	EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE	
. ч	XX280002er.dgn	01	DD-MM-YY	ISSUED FOR XXXXX	XX	XXX	REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.X	Transport
5	P-PLAN-03-RD.dgn						0 10 20 30 40 NORTHERN REGIONAL TECHNICAL SERVICES	DRG CHECK	D. JOHNSON	XX.XX.X	SOVERNMENT FOR NSW
2								DESIGN	M. ROWLES	XX.XX.X	x
-	1							DESIGN CHECK	D. JOHNSON	XX.XX.X	
0	4						CO-ORDINATE SYSTEM HEIGHT DATUM	DESIGN MNGR	D. JOHNSON	XX.XX.X	REGIONAL MAINTENANCE PROJECT MANAGEMENT NORTHERN
0							MGA ZONE 56 (GDA2020) AHD	PROJECT MNGF	R. GERSEKOWS	KI XX.XX.X	× REGIONAL MAINTENANCE DELIVERY



	NOT F	OR CONS	TRUCTIC	N				
KYOGLE COUNCIL	۵v			A3				
PAVEMENT REHABILITATION AND WIDENING SEGMENT 5470 TO 5480								
LONGITUDINAL		IGHWAY - MC00 - C	H.49825 TO CH. 5	50075				
	S2022/0			PART				
ISSUE STATUS CONCEPT DESIGN		EDMS No. qA6248429	SHEET NO. RD-0008	ISSUE A				

RD-0008 A © Transport for NSW



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~	DRAWING FILE LOCATION / NAME				DESIGN L		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THIS DRAWING N2021081 HW16 TARA AND CAPTAINS CREEK CONCEPT DESIGN MODEL.txt					CLIENT	KYOGLE COUNCIL			A3
Z	C:\Data\Worksets\N2021081 HW16 Tara and Captains Creek Segment 547	70 to 54	480\dgn\07-Dr	rawing Production\Plan and Profile\P_PLAN-03-RD dgn	N20210	81	N2021081 HW16 TARA AND CAPTAINS CREE	EK CONCEPT DESIGN MODEL.txt	\$DATE\$	\$TIME\$ \$	USER\$		16 - BRUXNER HIGHWAY			
S.	EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE		PAVEMENT REHABILITATIO	on and wid	ENING	
	XXX80002000 P-PLAN-03-RD.dgn	01	DD-MM-YY	ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.X	Transport	SEGMENT 5470 TO 5480			
CL	r-rLAN-03-RD.ugii						0 10 20 30 40	NORTHERN REGIONAL TECHNICAL SERVICES	DRG CHECK	D. JOHNSON	XX.XX.X	SOVERNMENT FOR NSW	LONGITUDINAL SECTION			
10							SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XX.XX.X	< compared by the second s	LONG SECTION - HW16 - BRUXNER H	HIGHWAY - MC00	CH 50075 TO CH.	50325
									DESIGN CHECK	D. JOHNSON	XX.XX.X		RMS REGISTRATION NO. DS2022/0	00064		PART 1
ç								4	DESIGN MNGR	D. JOHNSON	XX XX X	REGIONAL MAINTENANCE				
							CO-ORDINATE SYSTEM HEIGHT DATUM					PROJECT MANAGEMENT NORTHERN	ISSUE STATUS	EDMS No.	SHEET NO. RD-0009	ISSUE
0							MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWSKI	XX.XX.X	REGIONAL MAINTENANCE DELIVERY	CONCEPT DESIGN	qA6248429	RD-0009	A
															© Transport for	NSW



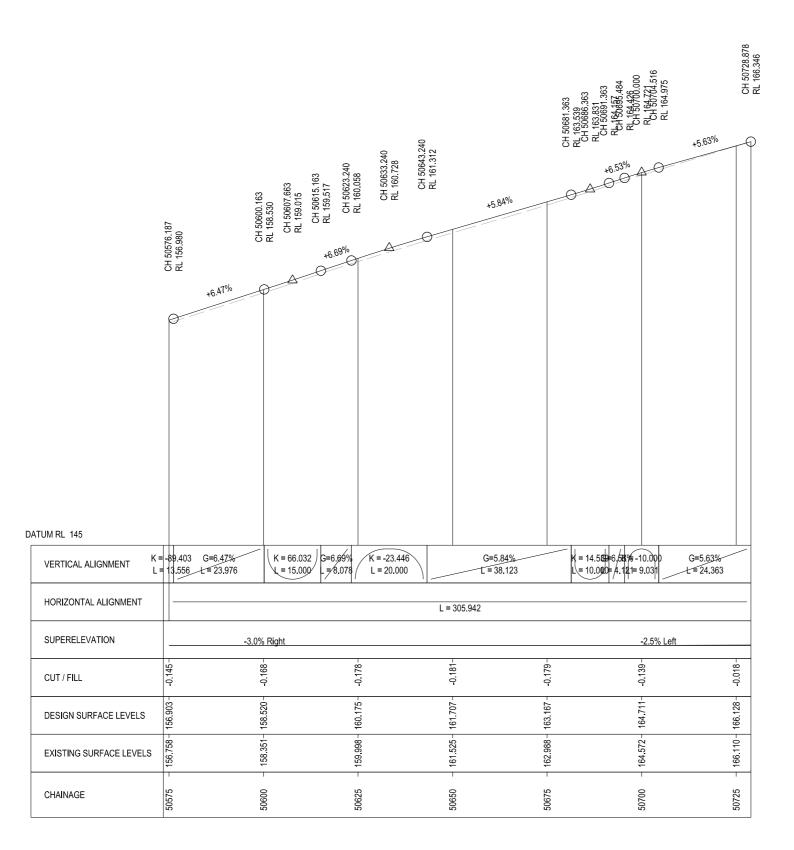
	CH 50343.563 RL 141.559 CH 50343.563 RL 141.913 CH 50352.563 RL 141.913 CH 50352.563	E 142,200 C2 CH 50360.025 R1 42,2776 CH 50360.025 R1 42,3776 RL 143,116	+6.79	90	CH 50458.430 RL 149.458 CH 50453.430 RL 149.458 CH 50463.430	CLH 50468.430 RL 150.114	+6.33%	
DATUM RL 132								
VERTICAL ALIGNMENT	G=7.09% = 22.05%	7. <b>83%</b> -13.470 1≇6€210.000	G=6.79 L = 93.4	9% 405	K = -21. L = 10.0	982 000	G=6.33% L = 85.12	<u>6</u> 4
HORIZONTAL ALIGNMENT	R = 172.000 L = 86.731		Ls = 55.000		I		L = 305.942	
SUPERELEVATION7.0% Left	+7.0% Right							-3.0
CUT / FILL	-0.184-	-0.242 -	-0.219 -	-0.146 -	-0.136	-0.174 -	- 151 -	-0.184 -
DESIGN SURFACE LEVELS	140.243 -	143.793 -	145.490 -	147.188 -	148.885 -	150.530 -	152.113 -	153.697 -
EXISTING SURFACE LEVELS	141.822 -	143.551-	145.271-	147.042 -	148.749 -	150.356 -	151.962 -	153.513 -
CHAINAGE	50325 - 50350 -	50375	50400	50425	50450	50475 -	20500	50525

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	RAWING FILE LOCATION / NAME				DESIGN LO		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF THI		PLOT DATE / TIME		PLOT BY	CLIENT
1 C:/	Data\Worksets\N2021081 HW16 Tara and Captains Creek Segment 54	70 to 54	480\dgn\07-Dra	awing Production\Plan and Profile\P-PLAN-03-RD.dgn	N202108	51	N2021081 HW16 TARA AND CAPTAINS CREE	K CONCEPT DESIGN MODEL.txt	\$DATE\$	STIME\$	\$USER\$	
, EX	XTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE	
XX	XX8000er.dgn -PLAN-03-RD.dgn	01	DD-MM-YY	ISSUED FOR XXXXX	XX	XXX			DRAWN	M. ROWLES	XX.XX.X	Transport
<u>ا ا</u>	-rtAir-03-RD.ugii							NORTHERN REGIONAL TECHNICAL SERVICES	DRG CHECK	D. JOHNSON	XX.XX.X	SOVERNMENT FOR NSW
2							SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XX.XX.X	x
									DESIGN CHECK	D. JOHNSON	XX.XX.X	
<u> </u>							CO-ORDINATE SYSTEM HEIGHT DATUM		DESIGN MNGR	D. JOHNSON	XX.XX.X	REGIONAL MAINTENANCE
,							MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWS	KI XX XX X	REGIONAL MAINTENANCE DELIVERY

	CH 50553.554 RL155.505.093 CH 50558.093	<sup>R</sup> L155282.631	RL 156.093	CH 50569-409 RL 156-541	
	04	¥-e		A	1
	K = 3 L = 9	1.798 .077	K = -	-89.40 13.556	3
					-
3.0% Left					_
-0.153 -					-0.145 -
155.280 -					156.903 -
- 155.127 - 155.2800.153 -					50575 - 156.758 - 156.9030.145 -
50550 -					50575 -

NOT F	OR CONS	TRUCTIO	N
KYOGLE COUNCIL 16 - BRUXNER HIGHWAY			A3
PAVEMENT REHABILITATIO	on and widei	NING	
SEGMENT 5470 TO 5480			
LONGITUDINAL SECTION			
LONG SECTION - HW16 - BRUXNER H	IGHWAY - MC00 - C	H.50325 TO CH. 5	60575
RMS REGISTRATION NO. DS2022/0	00064		PART 1
ISSUE STATUS	EDMS No.	SHEET No.	ISSUE
CONCEPT DESIGN	qA6248429	RD-0010	A
	(	C Transport for	NSW

#### GDA 2020



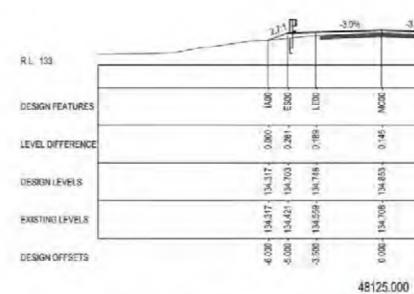
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8	EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE			PAVEMENT REHABILITATIO	N AND WIDENI	NG
-	<b>XX∑B00tX</b> er.dgn P-PLAN-03-RD.dgn	01	DD-MM-YY	ISSUED FOR XXXXX	XX	XXX		REGIONAL TECHNICAL SERVICES	DRAWN	M. ROWLES	XX.XX.		Transport	SEGMENT 5470 TO 5480		
15	P-PLAN-03-RD.ugn						0 10 20 30 40		DRG CHECK	D. JOHNSON	XX.XX.		for NSW	LONGITUDINAL SECTION		
9							SCALE 1:1000m	ROAD DESIGN NORTHERN	DESIGN	M. ROWLES	XX.XX	X		LONG SECTION - HW16 - BRUXNER H	GHWAY - MC00 - CH.	50575 TO CH. 50729
									DESIGN CHECK	D. JOHNSON	XX.XX.	X PREPARED FOR	TENUNOE	RMS REGISTRATION NO. DS2022/00	0064	PART
2							CO-ORDINATE SYSTEM HEIGHT DATUM		DESIGN MNGR	D. JOHNSON	XX.XX		GEMENT NORTHERN	ISSUE STATUS		IEET No. ISSUE
。							MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWS	KI XX.XX.>	REGIONAL MAIN	TENANCE DELIVERY	CONCEPT DESIGN	qA6248429 R	RD-0011 A
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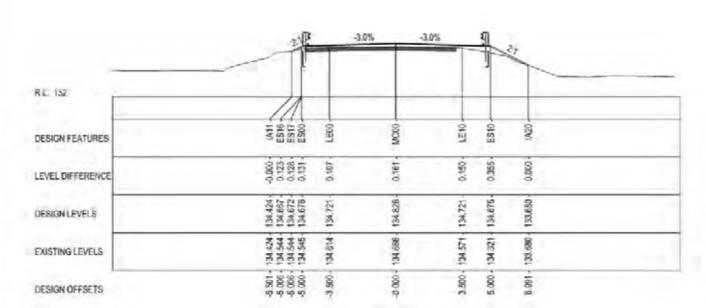


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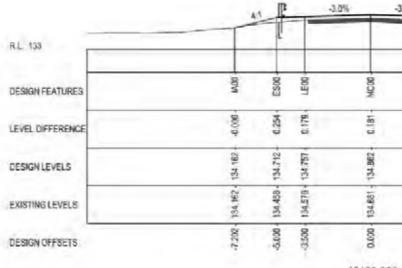
12	DRAINING FILE LOCATION / NAME C/DatriWorksets/N2021081 HW16 Tate and Captains Devek Segment 5	5470 to 54	60.dgni07-D	Insuing Production/Plan and Profile P. PLAN-04-RC dgn	DESIGN N2021	081	DESIGN MODEL FILEISI USED FOR DOCUMENTATION OF N2021081 HW16 TARA AND CAPTAINS CF		PLOT DATE / TH \$DATES	stimes	SUSERS	CLEAT		KYOGLE COUNCIL 16-BRUXNER HIGHWAY		
2	EXTERNAL REFERENCE FILES	REV	DATE	AMENUMENT / REVISION DESCRIPTION	WVR No.	AFFROVAL	SCALES ON AT SIZE DRAWING	DRAWINGS / DESIGN PREPAKED BY	ITTLE	NAME	DATE	R(Y)	Contractory of	PAVEMENT REHABIL	ITATION AND WID	DENING
-	200002	01	DD-MM-YY	ISSUED FOR XXXXX	XX	.00			DRAIN	M. ROWLES	80.003	D.ICIA	Transport	SEGMENT 5470 TO 5		
2							0 2 4 6	8	DRG CHECK	D. JOHNSON	13,803	NSW	for NSW	CROSS SECTION		
							SCALE 1200m	-	DEEIGN	M ROWLES	18,000		11122 002 00	Constant of the state		
-									DESIGN CHECK	D. JOHNSON	10.00.0	PREPARED FOR	discont Car	ANS RECEIRATION No DS20	22/000064	
w.								-	SESIGN MAGR	D. JOHNSON	\$2.00.3	REGIONAL MA	CLASS CONTRACTOR			Lauran
							MGA ZONE 56 (GDA2020) AHD		the second se	R. GERSEKOW	SKI SCOO	1	INSEMENT NORTHERN	CONCEPT DESIGN	EDME No. QA6248429	RC-0001
-						-										C Transport for

		-	2.3% -2	9%	9	4
R.L. 133		-	-	-	4	
DESIGN FEATURES	Esoc	LEOO	MCBR	TENO	ES IC	0201
LEVEL DIFFERENCE	-0.030 -	-0.015 -	0.000.0	0.015 -	0.142 -	- 000.0-
DESIGN LEVELS	134,693 -	134.717	134.799 -	134,697 -	134.654 -	133.986 -
EXISTING LEVELS	134.723 -	134.732 -	134.799.	134.682 -	134.512-	133.586 -
DESIGN OFFSETS	4 500 -	3 500	0000	3.500	5.000 -	7.678-





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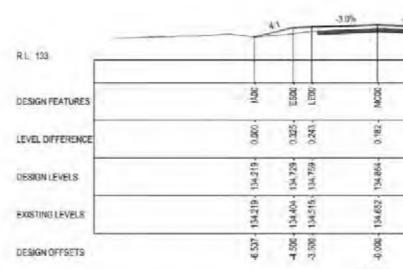
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	47		
LE10	1420		
0.313	0000		
134,767	33.906		
134,544 - 134,767 134,416 - 134,727	133,905- 133,906		
3.500 13	13.785 - 13		
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ES10 ES10 ES21	0		
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134.705- 134.705- 134.703-	- Style Br		
134.576 1 134.376 1 134.365 1			
1500-13 5000-13 5089-13	1		
45 WIW25		_	
		T FOR CON	

GDA 2020

12	DRAWING FILE LOCATION / NAME CIDast/Worksets/N2021081 HW16 Tans and Captains Davek Segment	5470 m 5	480 dgn 07-Dra	awing Productioni/Pan and Profile P-PUA4-04-RC dgn	DESIGN LI N20210		DESIGN MODEL FILEISI USED FOR DOCUMENTATION OF T N2021081 HW16 TARA AND CAPTAINS CRE		SDATES S		PLOT BY SUSERS	CLEAT	
	EXTERNAL REFERENCE FILES	REV	DATE	AMENUMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON AS SIZE DRAWING	DRAIWINGS / DESIGN PREPARED BY	TIRE	NAME	DATE	A YUS	Gerry
~	X000X	01	DD-AM-YY	ISSUED FOR XXXXX	XX	200			DRAIN	M. ROWLES	80.000	A LOLAS	Trans
2							0 2 4 6 8		DRG CHECK	D. JOHNSON	13,10(3)	NSW	for N
2							SCALE 1200m		DEEGN	M ROWLES	18,000		
-									DESIGN CHECK	D. JOHNSON	2.0.0		South Ser
4							CO-ORDINATE SYSTEM HEIGHT DATUM	-	DESIGN MNER	D. JOHNSON	\$26,808,30	PROJECT MANAGE	the state of the s
.							MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWSK	10000	REGIONAL MAINT	

RL 133		+	-		-	+	-	
DESIGN FEATURES	IV00	ESOO	LEDO	MCBIG	rene	ES10	1420	
LEVEL DIFFERENCE	0000.0	0.302 -	0.209 -	0.183 -	0.194 -	0.273 -	0.000.0	
DESIGN LEVELS	134.140 -	134.728	134.758	134,863 -	134,758.	134.728 -	134.023 -	
EXISTING LEVELS	134,140 -	134,426	134.549 -	134.680 -	134,564 -	134.455	134.023	
DESIGN OFFSETS	6.851 -	4.500	3.500	0.000	3.500	4 500-	7 320 -	



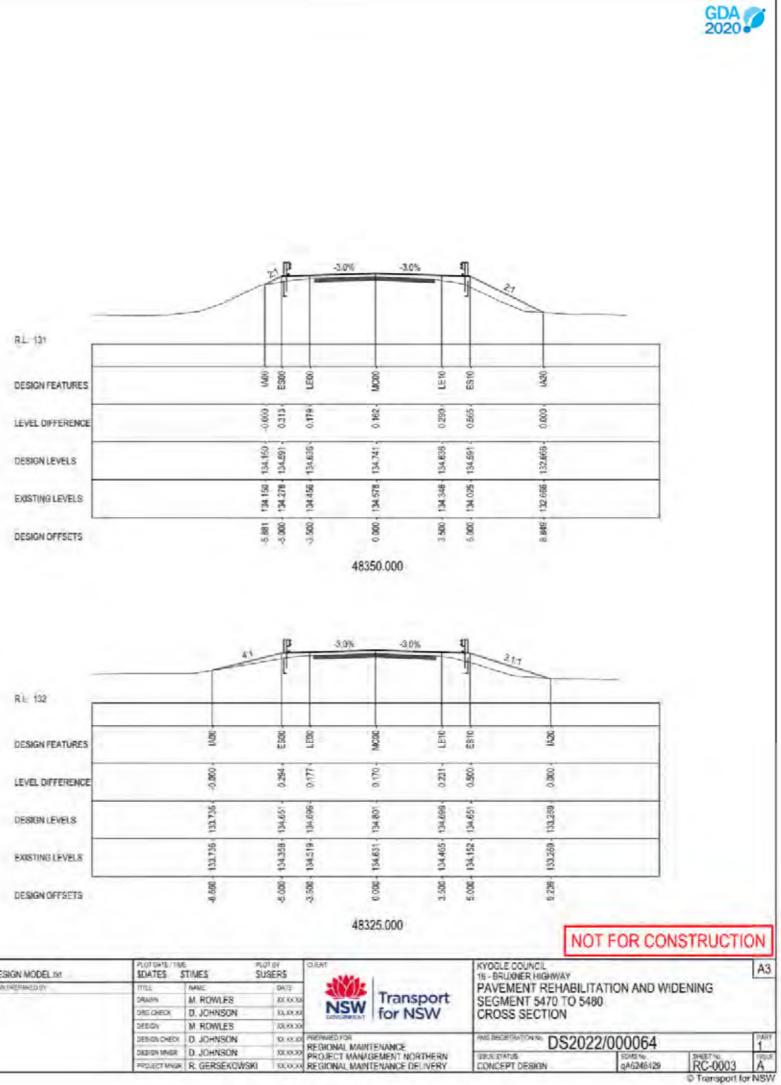
	4	1	4	.0% -3	.0%	4.1		21
RL 133					-		T	
DESIGN FEATURES	1400	ESOO	LEDO	MC00	LE-10	ESIG	DIKIO	DI-10 M2M
LEVEL DIFFERENCE	-000 ·	0.263	0.174	0.346	52110	- 552-0	- 900/0-	- 00000-
DESIGN LEVELS	134,280 -	134.728 -	134.758	134 863 -	134,758 .	134.728	134.128 -	134.128 -
EXISTING LEVELS	134,260 -	134,465-	134,584 -	134 718.		134.473	134,137.	134,153-
DESIGN OFFSETS	5290	4.500	3.500	0.000	3.500	4,500	6.900	8.024

R.L. 133								1				1	
DESIGN FEATURES		MOC	-	ES00		WC00	DEAD .	ES10		Durd .	DCM .		
LEVEL DIFFERENCE		-0.000		0.248				9. 0.238	0.016		5. 0.000		
DESIGN LEVELS		9. 134.399	_	1 134,729		134.864	5. 134.769	1 134.729	5- 134.129	-	5- 134.805	 _	
		134,399		-	e 1946	134.711	134,585	134,491	134.745		134,805		
		820		200	2	0000	500	200	906	006	25		
		-5.820		4.500	482	50.000	3.600	4,500	6.900	006'2	9.251		
DESIGN OFFSETS			41	4500		2		4,500	47	2067	926		
DESIGN OFFSETS		-	41		-3.0%	-3.0%		T	41			]	
DESIGN OFFSETS		1,000	*	ESOC	-3.0%	3.09	TEIO	ES10	47	DUIC			
DESIGN OFFSETS		0.0000 - 14.000	**	0.325 ES00	-3.0%	50.000	0.180+ LETO	0.275 ES10		0.443 ; DJ10	-0.000 . (A20		
DESIGN OFFSETS		134.219 0.000 iAnd	*	134,729 0.325 ESOC	-3.0%	50.000	134.759- 0.190 - LE10	- 134.729 - 0.275 - ES10	134.1790.303- DK(0	134.129 - 0.443 - DJ10	(134.5560.000)- (A20		
EXISTING LEVELS DESIGN OFFSETS R.L. 133 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS EXISTING LEVELS		0.0000 - 14.000		- 134.406 - 134.729 - 0.325 - ESOD	-3.0%	50.000	0.180+ LETO	0.275 ES10		134.572   134.129   -0.443   DJ10	-0.000 . (A20		

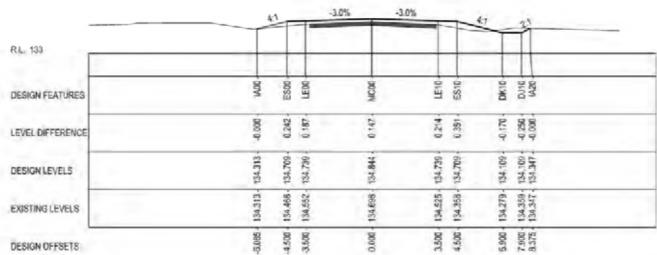
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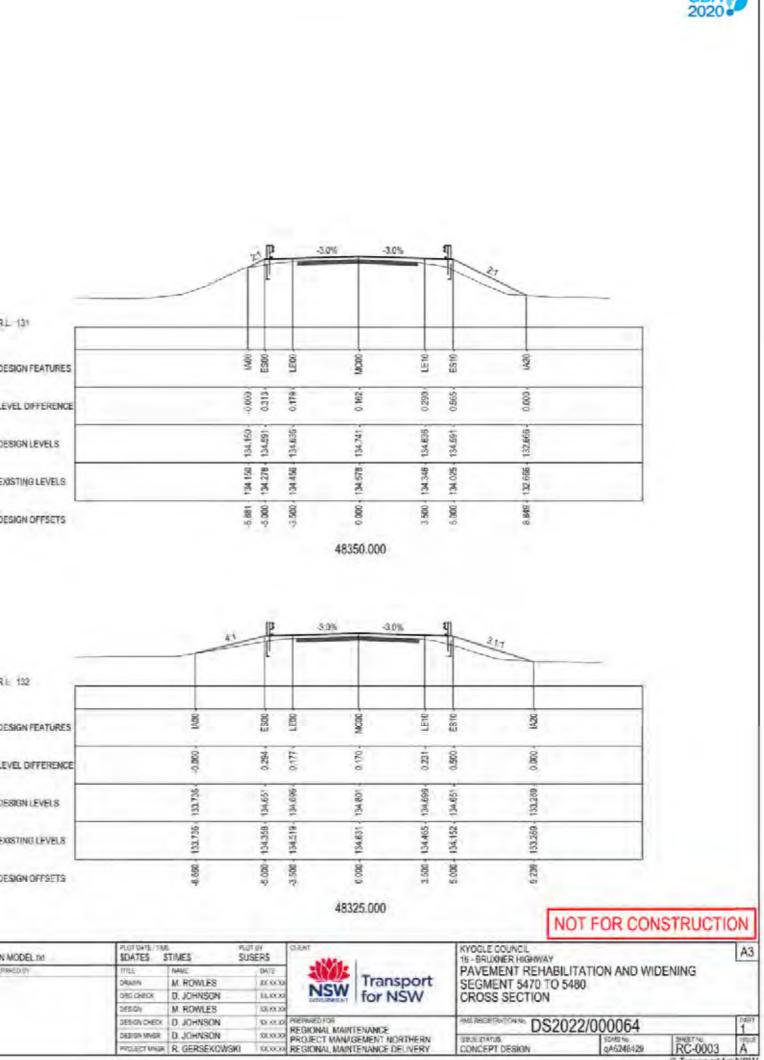
140 45	DESIGN OFFSETS			ज <del>प</del> ल व 4827	5.000	60 <b>4</b>	6.6 7.8	DESIGN OFFSETS		19	4	12	48325.000
12 130 1	DRAWING FILE LOCATION / NAME C/DastrillorisestiN2021081 HW16 Tam and Captains Deek 8	Segment 5470 to	5480 dgn 07-D	awing Production/Pain and Phyllip P-PLW-04-RC dgs	DESIGN L N20210		DESIGN NODEL FILE(S) USED FOR DOCUMENTATION OF TH N2021081 HW16 TARA AND CAPTAINS CREI		PLOT DATE/THE SDATES S	STIMES S	USER\$	CUENT	
s a	EXTERNAL REFERENCE FILES	REV	DATE	AMENUMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DATE	()	
2	X0000X	01	DD-AM-YY	ISSUED FOR X000X	XX	XXX			ORANN	M. ROWLES	80.000	NIC	Tran
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2							SCALE 1200m		DEEIGN	M ROWLES	18.00.0		
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	-						CO-ORDINATE SYSTEM HEIGHT DATUM	4	DESIGN MINER	D. JOHNSON	\$35,50,30		MAINTENANCE MANAGEMENT N
			-				MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWSKI	8000		MAINTENANCE

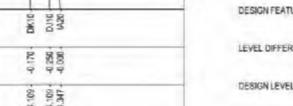
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R.L. 133		+		-	-		-	Ŧ	
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LEVEL DIFFERENCE	0.000.0	0.258 -	. 197 -	0.142-	0.206 -	0.305 -	-0.392 -	-0.497 -	0.000
DESIGN LEVELS	134.388 -	134.728-	134.756 -	134.861 -	134,756 -	134.726 -	134.126 -	134.126 -	134,620 -
EXISTING LEVELS	134.388 -	134,469-	134.559 -	134.720 -	134,550 -	134.421 -	134.518 -	134,623	134,620 -
DESIGN OFFSETS	-5.854 -	4.500	-3.500 -	0.000 -	3.500 -	4.500 -	6.900 -	- 006.7	8.888.

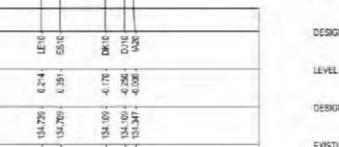












DESIGN FEATURES	IM00 ES00-
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DESIGN LEVELS	134.160 - 134.691 - 134.691 -
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DESIGN OFFSETS	5,881

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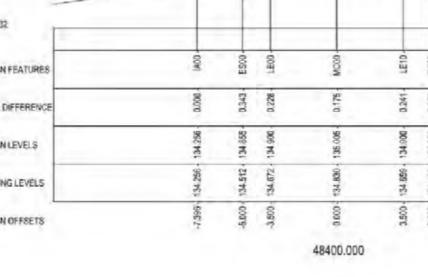
PREP	DRAWING FILE LOCATION / NAME C/Castrillorinus/N2121081 HW16 Tans and Captains Cavels 5	Segmeni 5470 s	5480 dgn 07-0	nawing Production/Pan and Profile P-PLAN-04-RC dgn	DESIGN LO N202106		DESIGN MODEL FILEISI USED FOR DOCUMENTATION OF TH N2021081 HW16 TARA AND CAPTAINS CRE		PLOT DATE / TH SDATES	e Stimes	FLOT BY SUSERS	CLEAT	
# 2	EXTERNAL REFERENCE FILES	RE	V DATE	AMENUMENT / REVISION DESCRIPTION	WVR No.	AFFROVA	SCALES ON AJ SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAME	DA/TE	RYLL	Sec. 1.
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<u> </u>	s						CO-ORDINATE SYSTEM HEIGHT DATUM	-	DESIGN MAGE	D. JOHNSON	\$26,809,30	PROJECT MANAG	the state of the s
Ï.							MGA ZONE 56 (GDA2020) AHD		PROJECT MNGS	R. GERSEKOWS	KI SCOOO	REGIONAL MAINT	

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RL 132	_			_	-		
DESIGN FEATURES	1 DOUL	ESOO	LEOO	MCBO	- DIGT	ESIG	221
LEVEL DIFFERENCE	- 000.0-	0.372.	0.208 -	0.137 .	0.229 -	0.532 -	000010
DESIGN LEVELS	134,008 -	134,589 -	134.634 -	134.739 -	134.634 -	134.589 -	132.806 -
EXISTING LEVELS	134.008 -	134.217 -	134.425	134.601 -	134,405 -	134.057 -	132.806 -
DESIGN OFFSETS	6 161 -	-2000-5-	3.500	-000	3.500	5.000 -	9.279-

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RL 134				-												
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LEVEL DIFFERENCE			0.000	0.465			0.161-	0.252	-0.151.	-0.203						
DESIGN LEVELS			135.787	121.96		36 242	136.137	136.107	105.361	136.507 -	1	_				
EXISTING LEVELS			135.787 - 13			136.103 - 12	-	135,855 - 13		135.710 - 13	_		-			
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DESIGN LEVELS		134.943 .	156.408	135.438		130,543	135.438-	135.408-	134,691.							
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LEVEL DIFFERENCE	0000	0.343	0.228	0.175	0.241-	0.375	0000-	
DESIGN LEVELS	134.256	134 855-	134.900	136.005	134.900	134.856 ·	134 031 -	
EXISTING LEVELS	134,256 -	134.512 -	134.672.	134,830 -	134,659 .	134,480 -	127,021	
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ESIGN LEVELS			135.787	136,107	136.137	136 242	136.137	136.107	135,507	136.507					
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			-6.779 - 13	-4,500- 13	-1500-13	48450.0	3.500	4.500	6.900 - 1	7,500-1 8.650-1					
				-4,500 -	-	-0000	3.500					_			
ESIGN OFFSETS			-6/1/9-	-4,500 -	-	ຊື່ 48450.0	380		6.800.			-	_		
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L 133			-6/19-	-4,500 -	-	ຊື່ 48450.0	380		6.800.			-			
ESIGN OFFSETS			-6779-	ES00-44500-	, LEDO	-3.0%	000 9200	4,500	1420						
ESIGN OFFSETS		0000	-6179-	- 0267. ESOC	0,203+ 1,200-	-3.0%	000 000 33500-	0.203 ES10 4.500	0.000- 1420 5200-						
ESIGN OFFSETS			-6179-	ES00-44500-	, LEDO	-3.0%	135438- 0.169- LETO 000	135.408- 0.203 ES10 4.500-	1420						
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ESIGN OFFSETS		TORDO TATO PAL	- 6179-	435.140-135.408-0.267-E500-4500-	135234 135438 0,203 TED0 135234 135438 0,203	-00070- 488450.0 -3.0%	135208- 135438- 0.169- LETO 000	135.205 135.408 0.203 ES10 4.500	- 134.895 - 134.891 - 0.000 - 14.20 - 13.00 - 14.20 - 13.00 -						
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ESIGN OFFSETS		TORDO TATO PAL	- 6179-	435.140-135.408-0.267-E500-4500-	500-135234-135438-0.203- LED0 - 1500-	-00070- 48450.0 -3.0% - 9000W - 1951.0 - 1955.921 - 8057.951 - 000	2.500+135.238+ 135.438+ 0.169+ LE10- 2.500+	135.205 135.408 0.203 ES10 4.500	- 134.895 - 134.891 - 0.000 - 14.20 - 13.00 - 14.20 - 13.00 -		NO	T FOR (		STRUC	TIO
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CastriVerinett/N2021081 HW16 Tate and Captains XTERNAL REFERENCE FILES		DATE	awing Production/Pan and AMENDMENT / REVIS ISSUED FOR XXXXX	_		igi	N202108 WVR.No. XX	1 APPROVA XXX		3 SIZE DRAWING 2 4 5		T DESIGN MODEL M DESIGN PREMIKED BY		TIMES M ROWLES D. JOHNSON M. ROWLES D. JOHNSON D. JOHNSON	X X X X		PREPARED FOR REGIONAL MAN PROJECT MAN	NTENANCE
Cast/Werksets/N2021081 HW16 Tate and Captains XTERNAL REFERENCE FILES	REV	DATE	AMENUMENT / REVISI	_		âgi	N202108 WVR.No.	APPROVA	C SCALES ON /	a size drawing			SDATES S ITTLE DRAMM DRS CHECK DESIGN	MAKE M. ROWLES D. JOHNSON M. ROWLES		M7E DC 00300 UL 00300 UL 00300		Trans for NS
Cast/Werksets/N2021081 HW16 Tate and Captains XTERNAL REFERENCE FILES	REV	DATE	AMENUMENT / REVISI	_		dgn.	N202108 WVR.No.	APPROVA	L SCALES ON /	3 SIZE DRAWING			SDATES S ITTLE DRAMM	M ROWLES	0	MTE DX XX XX	NSW	Trans
DRAWING FILE LOCATION / NAME D'GastWinkassiN202108 HWH6 Tans and Captains DXTERNAL REFERENCE FILES D000000	REV	DATE	AMENUMENT / REVISI	_		igi.	N202108 WVR.No.	APPROVA					SDATES S	NANE	0	MTE DX XX XX	-100	Trans
CasciWorksets/N2021081 HW16 Tars and Captains			-	_		igi.	N202108						SDATES S				-1141-	1
	Creek Segment 5470 to	5450 dgn 07-0m	awing Production/Plan and	Profile	PLAN-04-RC.	dgri		1	N2021081	HW16 TARA AND CAP	PTAINS CREEK CONCEP	T DESIGN MODEL INT		TIMES	SUSER	- 35		
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						48475.00	0										48	525.000
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EXISTING LEVELS	1.0		136.562 -	136,698 -	136.761	136.863 -		136.741 -	136.537 -	136.606 -		EXISTING LEVELS		138.617-	138.137 - 138.121 -		138,438	158.558
DESIGN LEVELS			136.562 -	136.923 -	136.953 -	137 058 -		136.953 - 136.923 -	136.323 -	136.323 -		DESIGN LEVELS		138.617 -	138.605- 158.550-	138.530	138.610 -	136.715-
LEVEL DIFFERENCE			-0000-	0.225	0.192	0.195		0.212-0.304-	-0.214 -	-0.282 -		LEVEL DIFFERENCE		000010	0.467	1000	0,172-	0.196

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NLEVELS		138.617.	138.605- 158.580- 138.480-			138.715+	138.610.	138.550-	-066-151	137.980-	13A.B.TO	-	
ING LEVELS		138.617- 13	138.137 13 158.121 15 138.183 15			138.568-13	138.413 - 13	138.256 - 13	138.051 - 13	138,413-13	138.670- 13	-	
IN OFFSETS		7 251 - 138	40000 138			-000	3.500-138	4.500 - 138	6.900 138	7 900 138	9,681-130	_	
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	DERGNICHEOX DESIGN INVER	D JOHNSON D JOHNSON	SE S	RE	ERWRED FOR EGIONAL MAINT		THERN		BRUE ETATI	5	DS2022/	EDAME No.	RC-0005
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LEVEL DIFFERENCE	1,000-	0.351+	0.211 -	0138.	0,180.	0.203	-0.290	0.441	-900/11-
DESIGN LEVELS	137.188	137.752-	137.782 -	137,887.	137,782-	137.752 -	137.152 -	137.152	137,856
EXISTING LEVELS	137.188 -	137,401 -	137.570 .	137.750.	137.602	137.548 .	137,442	137.592.	137,856
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EVELS		139.450 -	139.433 - 139.408 - 189.306 - 139.405 -	139,438.	139.543 -	139,438-	Onwig	138.808 -	138.808 -	140,088 -		-	
LEVELS		138,450 - 13	138.744 13 138.794 13 138.904 13 138.013 13	138.184 - 13		139.244 13		138.755 13	138.995 - 13	140.088 - 14		-	
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EVELS		138.617	138.605- 158.550- 138.480- 138.480- 138.530-	138.610	138.715	138.610	002001	137,980-	137.980	130.870			
LEVELS			138.137 - 138.121 - 138.183 -	138,438-	138.558-	138.413	BCT BC	138.061-	158,413.	138.670.			
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	DRS CHECK DESIGN	D. JOHNSON	LLR.N.	INSW LAT	for NSW	1	CF	OSS	SECT	ION	400		
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	DESIGN MAGR	D. JOHNSON R. GERSEKOWS	\$2.93.30	REGIONAL MAIN	GEMENT NORTHE		139.1	EIETATUS		0320	122/000004 SDMS No QA62464	5H#87.140	

12	DRAWING FILE LOCATION / NAME C/CastWorksets/N2021081 HW16 Tars and Captains Dreek Segm	ni 5470 m	5480 digni 07-02	naung Productioni Plan ann Profile P-PLAN-04-RC dgn	DESIGN LO N20210		DESIGN NODEL FILE(S) USED FOR DOCUMENTATION OF T N2021081 HW16 TARA AND CAPTAINS CRE		PLOT DATE/TH SDATES	e Stimes	PLOT BY SUSERS	CLENT	
	EXTERNAL REFERENCE FILES	REV	DATE	AMENUMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TITLE	NAVE	DATE	A YUS	George 1
-	20000	01	DD-AM-YY	ISSUED FOR XXXXX	XX	XXX			DRAIM	M. ROWLES	200,000,00	A LOLA	Trans
2							0 2 4 6 8		DRS CHECK	D. JOHNSON	83,835,30	NSW	for N
2							SCALE 1200m		DESIGN	M ROWLES	138,108,30		
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41	-						CO-ORDINATE SYSTEM HEIGHT DATUM	-	DES(GN MNGR)	D. JOHNSON	\$25,50,30	PROJECT MANAGE	a per es es encien
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RL. 139	TT		-		T	
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DESIGN LEVELS	140.351 - 140.339 - 140.214 - 140.214 -	140.327 -	140.371 -	140,266 -	139.636 -	140.738 -
EXISTING LEVELS	140.351 - 139.715 - 139.857 - 139.887 - 139.887 -	140.116	140 195 -	140.111	139.696 -	140.738 -
DESIGN OFFSETS	-7.156 -6.000 -6.000 -4.500	-3.500 -	-0.000 -	3.500 -	6.900 -	10.103 -

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DESIGN LEVELS		142.740	142.728	142.803	142,650 -		142.455 -	142,263	142.211 -	1112114	141.611 -	142.980 -	
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EXISTING LEVELS	141,269 - 141,269 - 140,609 - 140,609 - 140,665 - 140,865 -	140.922	140.993	140.904	140.825	140.529 -	140.577 -	141,608.
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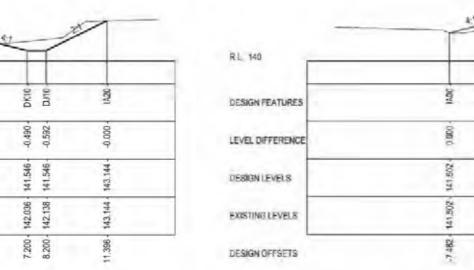
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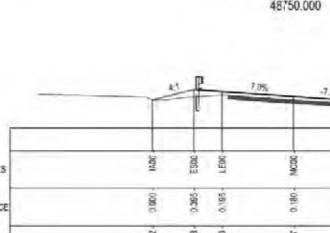
GDA 2020

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12 23	ERAINING FILE LOCATION / NAME C'EastWinksmilk202101081 HW16 Tats and Captains David	i. Segmeni 5470 ta 5	5480 dgm07-Dr	awing Production Pan and Profile P-PLAN-04-RC		DESIGN LO N202108		DESIGN NODEL FILE(S) USED FOR DOCUMENTATION OF T N2021081 HW16 TARA AND CAPTAINS CRE		SDATES S	E STIMES S	users	CLEAT		
8 8	EXTERNAL REFERENCE FILES	REV	DATE	AMENUMENT / REVISION DESCRIPTION		WVR.No.	APPROVAL	L SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPAKED BY	TITLE	NAME	DATE	RUY	() A []	Q
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2								0 2 4 6 8		DRG CHECK	D. JOHNSON	\$3,800	NS	VV	fort
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DESIGN LEVELS	142.854 - 142.854 - 142.818 - 142.818 - 142.818 -	142.748	142.482 -	142 216 -	142.146	141.546	141.546 -	143.144 -
EXISTING LEVELS	142.854 - 142.350 - 142.325 - 142.325 - 142.320 -	142.425	142.293 -	142.036 -	141.899 -	142.036 -	142.138	143,144 .
DESIGN OFFSETS		-3,800 -	0.000 -	3.800 -	4.800 -	7.200	8.200 -	11.396-





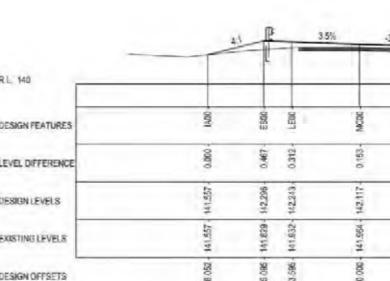
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DESIGN LEVELS	142.460 142.451 142.451 142.426	142.356	142.080	141.824-	141,754-	141.154-	141.154	142.688
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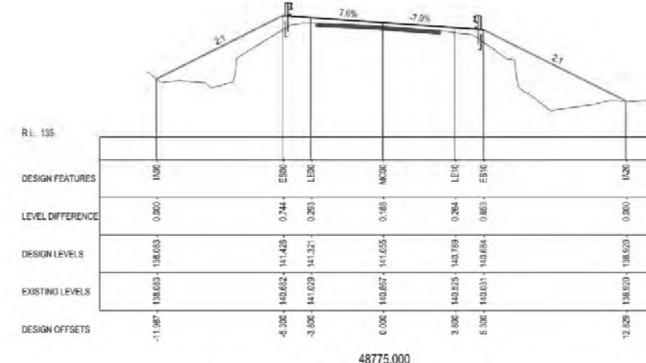
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XISTING LEVELS	142,188	143.059	143.147	- 997 [241	143.160	143.076	142.896
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	138.083 -	140.682 -	141.029-	140.867 -	140.525	140.031 -	136.820 -	EXISTING LEVELS		141,557 .	141 829 -	141.832	41.954 .	141.64B.		141.667				
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14	DRAWING FILE LOCATION / NAME C/Cast/Workset/N2021081 HW16 Tam and Captains Creek S	egmeri 5470 to	5480 dgn 07-0a	awing Production Pan and Profile P-PU/V-04-RC don	DESIGN D N20210		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF TH N2021081 HW16 TARA AND CAPTAINS CREE	IS DRAWING EK CONCEPT DESIGN MODEL M	PLOT DATE/TH SDATES	re Stimes	SUSERS	CLEAT	
	EXTERNAL REFERENCE FILES	RE	DATE	AMENUMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	SCALES ON AS SIZE DRAWING	DRAWINGS / DESIGN PREPAKED BY	TIRE	NAVE	DATE .	RIVE	Sec. 1
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2 2							SCALE 1200m		DESIGN	M ROWLES	13,19,30		1.
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5 10	-						CO-ORDINATE SYSTEM HEIGHT DATUM	-	DESIGN MAGR	D. JOHNSON	\$25,00,30	PROJECT MANA	GEMENT NOR
Ë							MGA ZONE 56 (GDA2020) AHD		PROJECT MADE	R. GERSEKOWSH	KI GCOCO		ITENANCE DE

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DESIGN LEVELS	144,663 -	144,189 -	144.189 -	144,802 -	144.810-	144,839 -	144.734-	144.704	144.231 -	DESIGN LEVELS
EXISTING LEVELS	144,663 -	144,550 -	144.540	144.504 -	144.587 -	144.630 -	144,584 -	144,491 -	144,231 -	EXISTING LEVELS
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LEVEL DIFFERENCE	-0000-	-0.551 -	-068'0-	0.268	0.204	0.166	0.157.	0.236	0000	
DESIGN LEVELS	- 642.94	145.201 -	145.201-	145.813	145,843	145.948	145,843	145.813-	145,369	
EXISTING LEVELS	145.743 -	145,752 -	145.591	145.555	145,640	145.782.	145.687	145.577	145.389	
DESIGN OFFSETS	-9.034 -	-1 960 -	-6.950 -	4.500.	-3,500 -	-000-	3.500 -	4.500 -	6277.	
						48900.000				

-0.8%

DESIGN LEVELS       1000000000000000000000000000000000000		DRAIM DRS CHECK	M RO	-	1	11.10.10 11.10.10		NSW	Transp for NS	ort	5	SEGMENT 54 CROSS SECT	70 TO 548			
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ESIGN LEVELS L 145 ESIGN FEATURES EVEL DIFFERENCE	KISTING LEVELS		146.760	146.726	148.629	146.462	146.625		146.71	146.671	146.526	145.499				
ESIGN LEVELS ASTING LEVELS L 145 L	ESIGN LEVELS		148.760-	146.153	146.163-	146.796-	146,826-		166 971	145.829-	146.795-	146.499				
SIGN LEVELS ISTING L	VEL DIFFERENCE		00000	0.543	-0.446	+EE.0	0.201		0.220	0.155	0.200	0000				
SIGN LEVELS SIGN LEVELS SIGN OF FSETS SIGN OF FS	SIGN FEATURES		NOC.	00/0	DKD0	ES00.	TEDO		MCDC	LETO-	E810-	1420				
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SIGN LEVELS	ISTING LEVELS						_							_		
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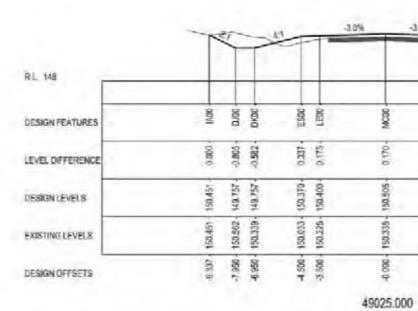
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RL 143



12	DRAWING FILE LOCATION / NAME C/Cast/Worksets/N2I21081 HW16 Tam and Captains Davek Segment	5470 m	5480 dgm 07-Da	awing Production Plan and Profile P-PU/V-04-RC dgn	DESIGN LO N20210		DESIGN MODEL FILEISI USED FOR DOCUMENTATION OF TH N2021081 HW16 TARA AND CAPTAINS CREE	a statute in the statute of the stat	PLOT DATE/THE SDATES	e Stimes	FLOT BY SUSERS	CLEMT	
2	EXTERNAL REFERENCE FILES	REV	DATE	AMENUMENT / REVISION DESCRIPTION	WVR No.	AFFROVAL	SCALES ON A3 SIZE DRAWING	DRAININGS / DESIGN PREPAKED BY	TILE	NANE	DATE	R YUS	Contract of the
-	20000	01	DD-AM-YY	ISSUED FOR XXXXX	XX	200			SRAIM	M ROWLES	SCOCK.	A ICIAI	Tran
2							0 2 4 6 8		OBS CHECK	D. JOHNSON	13,10,3	NSW	for N
							SCALE 1200m		DESIGN	M. ROWLES	DO NO X		
-	1								JERGN CHECK	D. JOHNSON	0.0.2		and Ga
-	-						CO-ORDINATE SYSTEM HEIGHT DATUM	-	DESIGN MNOR	D. JOHNSON	\$25,52,32	PROJECT MANA	a subscription of the subscription
							MGA ZONE 56 (GDA2020) AHD		PROJECT MINUR	R. GERSEKOWSH	1 00000	REGIONAL MAIN	

RL 147	_	7	T		-				1
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DESIGN LEVELS	148.691 -	148.017 -	148.017 -	148.630	148.660 -	148.765 -	148.660 -	148.630 -	148.138 -
EXISTING LEVELS	148.691 -	148.775	148.711	148.338 -	148.414	148.603 -	148.491 -	148.401 -	148.138 -
DESIGN OFFSETS	9.297 -	-7.960-	-8.950 -	4.500	3 500	0000	3.500	4.500	6.456



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RL. 148	_	Ŧ	T	-	-	-	_		
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DESIGN LEVELS	149.564	148,935 -	148,935 -	149.547	149.577	149.682.	149.577 .	149.547	106 851
EXISTING LEVELS	149.564	149.709	149.619	149.247	149.401	149.535	149,365 -	149.291 .	148.901 -
DESIGN OFFSETS	9208-	-2/950-	-056.9-	4500-	3.500	0.008	3.500	4,500 -	-5802

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NAME W/16 Tam and G

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nsport NSW	KYOGLE COUNCIL 15-BRUXNER HIGHW/ PAVEMENT REH SEGMENT 5470 CROSS SECTION	ABILITATIO TO 5480	ON AND WID	ENING	A3
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IG LEVELS	152.442 -	152,628	151,897	151.949-	151.770 -	150.686 -	EXISTING LEVELS	153.075	112.221	a 13	152.967	152 600	
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N FEATURES DIFFERENCE N LEVELS NG LEVELS		-1.043 -	0.324 -	.653- 0.182 ·	. 151.548 . 0.250 . L	150.495 - 150.495 - 0.000 -	DESIGN FEATURES	153,168 153,165	865 - 0.852 - 0.852 - 0.852 - 0.852 - 0.852 - 0.852 - 0.845 -	- 19231 - 257251	1 -1620 -	00010-	

GDA 2020

DiDashWerkeetsIN2021081 HW16 Tars and Captains DITERNAL REFERENCE FILES	REV 01	DD-4m-yy	AMENOMENT / REVISIO	NUES			XX	200	0 2 4 6 8 SCALE T 2009 CO-ORDINATE SYSTEM HEIGHT DATUM MGA 200NE 56 (GDA2020) AHD		DRADYN M DREICHECK D DESIGN M DESIGN/CHECK D	ROWLE JOHNS/ ROWLE JOHNS/ JOHNS/	ON S ON ON	101 - 501 -	0.0 0.0 0.0	PROPRIED FOR REGIONAL MAINT PROJECT MAAAA REGIONAL MAINT	SEMENT NORTH
DiDashWerkeetsIN2021081 HW16 Tars and Captains DITERNAL REFERENCE FILES				NUES				200	0,2,4,6,8		DRAMM M DRS CHECK D DESIGN M	ROWLE JOHNS ROWLE	ON B	XXLX XXLX	0.0 0.0	PREPARED FOR	for NSV
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CICastriNerkoetsIN2021081 HW16 Tars and Captains EXTERNAL REFERENCE FILES				NUES	APRIL A								8	and a	X30	P. LOTING	Iransp
C Cash Werksets N2021081 HW16 Tars and Captains	REV	DAIL	AMENUMENT / REVISIC	IN DESC	ALF 18,34												There are a
				_			-	_	SCALES ON AS SIZE DRAWING	DRAWNGS / DESIGN (HREPAKED BY		WE.		CM17	_		Contra la contra de la contra d
	s Create Segment 5470 to F	450 dow 07-Day	wine Production Plan and R	Peolie P	PLANOLEC		DESIGN LO N202106		DESIGN MODEL FILEISI UGED FOR DOCUMENTATION OF N2021081 HW16 TARA AND CAPTAINS CRI		PLOTDATE/THE SDATES STIT	IES'		PLOT BY SUSERS		CLEAT	
						49175.00	0									492	25.000
DESIGN OFFSETS			- 190 C 12-	4.500	-3 500	0.000		3.500		DESIGN OFFSETS		- 2.1 0fm	6.950			-3 500	0000
EXISTING LEVELS			153.128	153.673	153.948	154.119		153.893	152.208 .	EXISTING LEVELS		150,017	158.765		156.367	150.00	156,743-
DESIGN LEVELS			153.128	154.143	154,173	154.278-		154.173	152.00	DESIGN LEVELS		120.219	156.155		196.761	156.797	156,902
			-0000-0-	0.470	0.225 -	0.158		0.280	00010	LEVEL DIFFERENCE		00000-	-0.630		0.380	0.287	0.199
LEVEL DIFFERENCE												_					

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RI_ 151		_		_	_		
DESIGN FEATURES	1400	ESOC	LEOG	MCBO	TE10	ESIC	IA20
LEVEL DIFFERENCE	-000.0-	0.470 -	0.225.	0.156 -	0.280 -	0.565 -	0.000.
DESIGN LEVELS	153.128 -	154.143 -	154.173	154.278.	154.173	154,128-	152.209 .
EXISTING LEVELS	153.128 -	153.673 -	153.548 -	154.119.	153.893 -	153.563 -	152.209
DESIGN OFFSETS	-8.558 -	4 500-	-3 500	0.000.0	3.500-	5.000-	8.838

	DERIGN CHECK DESIGN MAGR PROJECT MAGR	0. JO	HNSON HNSON	C	01.01.00 01.00.30	PREPARED FOR	GEMENT NORTH			HWE RECEIPT		052022	2/000064	RC-0012	P1 P
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						492	25.000						FOR CO	NSTRUCT	ON
DESIGN OFFSETS		5425	-7 950	16.950	-1 500	-3 500	0.000	3.500	4 500	906.9	206 1	8005			
EXISTING LEVELS		156.915		150.765		154.558	156,743	156.674	156.459	156715	158.777	156.751			
DESIGN LEVELS		156.915		5- 156.155	198.762	3- 156.797	156.902		156.757	156.157	194.861 - 1	. 158,75			
EVEL DIFFERENCE		-0000-		-0.630 -		- 622/0	0199-	-	- DOE.0		-609.0-	-0000-			
ESIGN FEATURES		1400	DUDC	DKOC	ESOC	I EDO	MCDIC	TEIO	ES10	DKIG	0110	DEVI			
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XISTING LEVELS		158.314 15		158.148 - 15		157.798. 15	157.980 - 15	157,807 16	157.678 - 15	157.739 - 15	157.781 - 15	-			
DESIGN LEVELS		158.314 -		167.381 -	167,993 -	158.023 -	158.128 -	168.023 -	157.993	157.393 -	157.393 -				
LEVEL DIFFERENCE		-0000-0-	-0.833	- 992 0-	0.376-	0.225	0.148	0.216	0.316-	-0.346	- 386.0-	- 000.0			
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LEVEL DIFFERENCE	0000.0	0.403	0.365 -	0.293	0,135.	0.173	0.214
DESIGN LEVELS	155.030 -	155,483 -	155.512 -	155.542 -	156.647 -	155.542 -	155.512 -
EXISTING LEVELS	155.030 -	155.080 -	155.148 -	155.249 -	155.512 -	155.369 -	155.298
DESIGN OFFSETS	- <b>6</b> 06'1*	5.937	4.500	-3,500	g 000 -	3.500 -	4.500

	JERGN CHECK JESIGN MNGR PROJECT MNGR	D 10	HNSON HNSON	1		PROJECT MANPA	TENANCE SEMENT NORTHER TENANCE DELIVER		HWS RECEIPT	5	DS2022/	000064	RC-0012	1 1 A
IN MODEL INI	PLOTONTE/THA \$DATES \$ ITTLE DRAIN DRS CREDX DESCV	M RO	WLES INSON		0475 24.000 34.000 34.000 30.000	CLEAT	Transpor for NSW	t		ENT	REHABILITAT 470 TO 5480		IDENING	P
						492	25.000				NOT	FOR CO	NSTRUCTI	ON
ESIGN OFFSETS		229-6-	1 950	16.950	H 500	-3 500	0000	4 500	6.900	206 /	8005			
XISTING LEVELS		156.915	156.637	158.765	156.367		156,743		158.715	158.777	156.751			
ESIGN LEVELS		156.916	156/155-	156.155-	156.767		156.902			158, 167 -	. 158,751 .			
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ESIGN LEVELS	_	14. 158.314	3. 157.381	157.361	5. 167,993		50. 158.128		39- 157.393	157.393				
EVEL DIFFERENCE		-00000	-0.833	-0.758		-	0.148		-0.346	-0.386				
ESIGN FEATURES		00071	Duno	DICHO	ESOO	LEDO	MCOO	ESHO	DICIO	Durd				



12	DRAINING FILE LOCATION / NAME C/Cast/Worksets/N2021/81 HW16 Tars and Captains Casel: Segme	ri 5470 m	5480 dgn C7-Cr	awing Production Pan and Profile P-PU/V-04-RC dgn	DESIGN LO N20210		DESIGN MODEL FILE/SI USED FOR DOCUMENTATION OF TH N2021081 HW16 TARA AND CAPTAINS CREE	HIS DRAWING EK CONCEPT DESIGN MODEL XM	PLOT DATE/TH SDATES	re Stimes	FLOTER SUSERS	CLEAT	
0	EXTERNAL REFERENCE FILES	(RE)	DATE	AMENUMENT / REVISION DESCRIPTION	WVR No.	AFFROVAL	SCALES ON AS SIZE DRAWING	DRAININGS / DESIGN PREPARED BY	TTLE	NAVE	DATE:	RIVIA	Garage
	20000	01	DD-AM-YY	ISSUED FOR XXXXX	XX	.001			DRAIM	M. ROWLES	ACCOX.	A LOUAL	Trans
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							MGA ZONE 56 (GDA2020) AHD		PROJECT MINIS	R. GERSEKOWS	KI GCOCK	the second second second second	

R.L. 157		-		+	-	-	_	-		
DESIGN FEATURES	100VI	DUDO	Decid	ES00	LEOO	MCBIG	TEIC	ES10	DKIC	Disc
LEVEL DIFFERENCE	-0.000.0-		- 168.0-	0.307 -	0.202 -	0.156 -	0.169 -	0.250 -	-0.000	-0.073
DESIGN LEVELS	158.268 -	158.346	158.345	158.959 -	158.989 -	159.094 -	158.969 -	158.959 -	158.508 - 158.359 -	158.359
EXISTING LEVELS	159.269 -	159,123	159.044	158.652 -	158.787 -	158.938	158.819-	158.709 -	158.508	158.432
DESIGN OFFSETS	-961.0-		6.950	4 500-	-3.500	0000	3.500	4 500 -	6.301-	2006

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ENIGN FEATURES ESIGN LEVELS XISTING LEVELS
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L 158
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L. 159

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DESIGN FEATURES	00VI-	COPU	0000	ES00	LEOO	MC00	LENO	Esto	OEVI
LEVEL DIFFERENCE	0.000	-0.500-	-0.562	0.268	0.215	0.178	0.186.	9.305.	0,00.0
DESIGN LEVELS	159.862	158,106 -	159.106	159.719	159.749	158,854 .	158.749 -	158.719	158.705 -
EXISTING LEVELS	159 852 -	159.696	120 569	159,450	159 532 -	159 676	159,562	- 217 551	158,706
DESIGN OFFSETS	9.462	-1.950 -	-0.350	4.500 -	-3.500 -	0.000.0	3.500 -	4.500.	8.553 ·

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162.455 - 162. | EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>ESIGN LEVELS<br>ESIGN LEVELS<br>ESIG   | WEL DIFFERENCE<br>- 1000 0<br>- 122 0<br>- 120 0<br>- 12 | EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>ESIGN LEVELS<br>ESIGN LEVELS<br>ESIGN LEVELS<br>ESIGN LEVELS  | 161.871 -<br>161.871 -<br>161.871 -<br>162.435 -<br>162.435 -<br>161.429 - | 161.871 -<br>161.871 -<br>161.871 -<br>162.433 -<br>162.433 -<br>161.429 -<br>151.429 -<br>151.429 -<br>151.429 -<br>151.429 -   | 161.871 - 161.871 - 161.871 - 161.871 - 161.871 - 162.483 - 162.435 - 162.455 - 162.455 - 162.455 - 162.455 - 162.455 - 162.455 - 162.455 - 162.455 - 162.455 - 162.455 - 162.455 - 162.45 | 161.871 - 162.887 - 161.871 - 161.871 - 162.887 - 162.485 -
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|  | 162.887<br>162.887<br>161.871<br>162.483<br>162.435<br>162.435<br>162.435<br>161.429<br>161.429   | 162.887<br>162.887<br>161.871<br>162.483<br>162.435<br>162.435<br>162.435<br>161.429<br>161.429   | 162.887<br>162.887<br>161.871<br>162.483<br>162.435<br>162.435<br>162.435<br>161.429<br>161.429   | 162.8387<br>162.8387<br>162.435<br>162.435<br>162.435<br>162.435<br>161.429<br>161.429<br>161.429  | 162.8827 -<br>162.8827 -<br>161.871 -<br>162.483 -<br>162.435 -<br>162.425 -<br>161.429 -<br>161.429 -<br>162.520 -   | 162.8387<br>162.435<br>162.435<br>162.435<br>162.435<br>161.429<br>161.429<br>161.429  | 162.8827 -<br>162.8827 -<br>161.871 -<br>162.483 -<br>162.435 -<br>162.425 -<br>161.429 -<br>161.429 -<br>162.520 -   | 162.887<br>162.887<br>161.871<br>162.483<br>162.435<br>162.435<br>162.435<br>161.429<br>161.429   | 162.887<br>162.887<br>161.871<br>162.483<br>162.483<br>162.483<br>162.483<br>162.483<br>162.423<br>161.423  | 162.887<br>162.887<br>161.871<br>162.483<br>162.483<br>162.483<br>162.483<br>162.483<br>162.423<br>161.423   | 162.887<br>162.887<br>161.871<br>162.483<br>162.483<br>162.483<br>162.483<br>162.483<br>162.423<br>161.423   | 162.887<br>162.887<br>161.871<br>162.483<br>162.483<br>162.483<br>162.483<br>162.483<br>162.423<br>161.423   | EXER DIFFERENCE<br>FAIL 0.0000 - 0.000 -  | EXIGN ITEAERS<br>FACTOR - 0.020 -
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0.020 - 0.020  | EXIGN ITEAERS<br>FACTOR - 0.020  | EXIGN ITEAERS<br>FACTOR - 0.020  | EXIGN ITEAERS<br>FACTOR - 0.020  | EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>ESIGN
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128700 - 1287   | EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>ESIGN LEVELS<br>ESIGN LEVELS<br>ESIGN LEVELS<br>ESIGN LEVELS   | 162.8387<br>162.8387<br>162.435<br>162.435<br>162.435<br>162.435<br>161.429<br>161.429<br>161.429  | 161.871 - 162.887 - 161.871 - 161.871 - 161.871 - 162.887 - 162.483 - 162.483 - 162.483 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.45 | 161.871 - 162.887 - 161.871 - 161.871 - 161.871 - 162.887 - 162.483 - 162.483 - 162.483 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 162.435 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.455 - 163.45 | 162.463<br>162.463<br>162.453<br>162.453<br>162.453<br>162.453<br>162.453<br>162.453<br>162.453<br>162.453<br>162.453<br>162.453   | 161.871 - 161.871 - 161.871 - 161.871 - 161.871 - 161.871 - 162.483 - 162.483 - 162.483 - 162.483 - 162.483 - 162.483 - 162.483 - 162.483 - 162.483 - 162.483 - 162.483 - 162.483
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   | 162.887<br>162.487<br>162.483<br>162.483<br>162.483<br>162.483<br>162.428<br>161.429<br>161.429  | 162.887<br>162.487<br>162.483<br>162.483<br>162.483<br>162.483<br>162.428<br>161.429<br>161.429  | 162.8387<br>162.435<br>162.435<br>162.435<br>162.435<br>161.871<br>162.255<br>161.429<br>161.429<br>161.429  | EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>ESIGN
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| XISUING TEAERS<br>162, 152, 152, 152, 152, 152, 152, 152, 15   | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>162.252 - | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>162.252 - | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>162.252 - | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>162.252 -  | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>162.252 - | 162.438<br>162.435<br>162.435<br>162.425<br>162.425<br>161.429<br>161.429<br>161.429   | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>162.252 - | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>162.252 - | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>161.429 -<br>162.252 -<br>161.429 -<br>162.252 - | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>162.425 -<br>161.429 -<br>162.425 -<br>161.429 -<br>162.426 -<br>161.429 -<br>162.426 - | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>162.425 -<br>161.429 -<br>162.425 -<br>161.429 -<br>162.426 -<br>161.429 -<br>162.426 - | 162.8387 -<br>162.435 -<br>162.435 -<br>162.435 -<br>162.425 -<br>161.429 -<br>162.425 -<br>161.429 -<br>162.425 -<br>161.429 -<br>162.426 -<br>161.429 -<br>162.426 - | EVEL DIFFERENCE<br>FVEL D  | EVEL DIFFERENCE<br>EVEL DIFFERENCE<br>FOIL 0: 0,000 0<br>162,435 0<br>162,435 0<br>162,435 0<br>162,435 0<br>162,435 0<br>162,435 0<br>164,40 0<br>162,435 0<br>164,40 0<br>164 | EVEL DIFFERENCE<br>FVEL D | EVEL DIFFERENCE<br>FVEL D   | EVEL DIFFERENCE<br>FVEL D | EVEL DIFFERENCE<br>FOR 162.256 - 0.000 - 1.000 -   | EVEL DIFFERENCE<br>FOR 152 252 0 1227 - 0.0227 -
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| DESIGN FEATURES<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL 01000<br>162.052<br>162.053<br>162.053<br>162.053<br>162.053<br>162.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053 |   |   |   |  | ESIGN FEATURES  |  |   |   |   |  |  |  |   |  
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| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | LL_160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | LL_160  | LL_160   
   | LL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160<br>DESIGN FEATURES<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160<br>DESIGN FEATURES<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160<br>DESIGN FEATURES<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  |
| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
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| RL 160 DESIGN FEATURES LEVEL DIFFERENCE DESIGN LEVELS DESIGN LEVELS  | L_ 160  | RL_160  | RL_160  | L_ 160   | ESIGN FEATURES  | L_ 160   | L_ 160  | RL_160  | RL_160  | RL_160   | RL_160   | RL_160   | L_ 160  | L_ 160   
   | L_ 160   | RL_160   | RL_160   | RL_160   
   | RL_160   | RL_160   | RL_160   | RL_160   
   | RL_160   | L_ 160   | RL_160   | RL_160   
   | L_ 160   | LL_160  | L_ 160   | L_ 160  
   | L_ 160   | L_ 160   | L_ 160   | L_ 160   | L_ 160            
  | L_160  | L_ 160   | L_ 160   | L_ 160  
                        | L_ 160   | L_ 160   | 160  | | | | | | | | | | | | |
| DESIGN FEATURES<br>LEVEL DIFFERENCE<br>LEVEL DIFFERENCE<br>LEVEL 01000<br>162.052<br>162.053<br>162.053<br>162.053<br>162.053<br>162.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053<br>163.053 |   |   |   |  | ESIGN FEATURES  |  |   |   |   |  |  |  |   |  
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EXISTING LEVELS	162,666 -		162,542	161,962 -	162.071 -	162.104.	161,970 -	161,851 -	161.785
DESIGN OFFSETS	-9.821.	-7.992-	-6.992 -	4.542	-3.542 -	-000 -	3.542 -	4.542-	5.910.

DESIGN FEATURES	152.8370.000 IA00	152.825 - 151.871 - 0.954 - DJ00	162,795 - 161,8710.524 - DK00		104.100 104.404 0.447 COU	162,122 - 152,255 - 0,133 - MC00	161 533 - 152 077 - 0.144 - LE10	101 801 - 152.029 - 0.226 - ES10	162.292   151.429 0.862   DK10	162.503- 151.4291.074- DJ10	162.520 - 162.520 - 0.000 - 1620			
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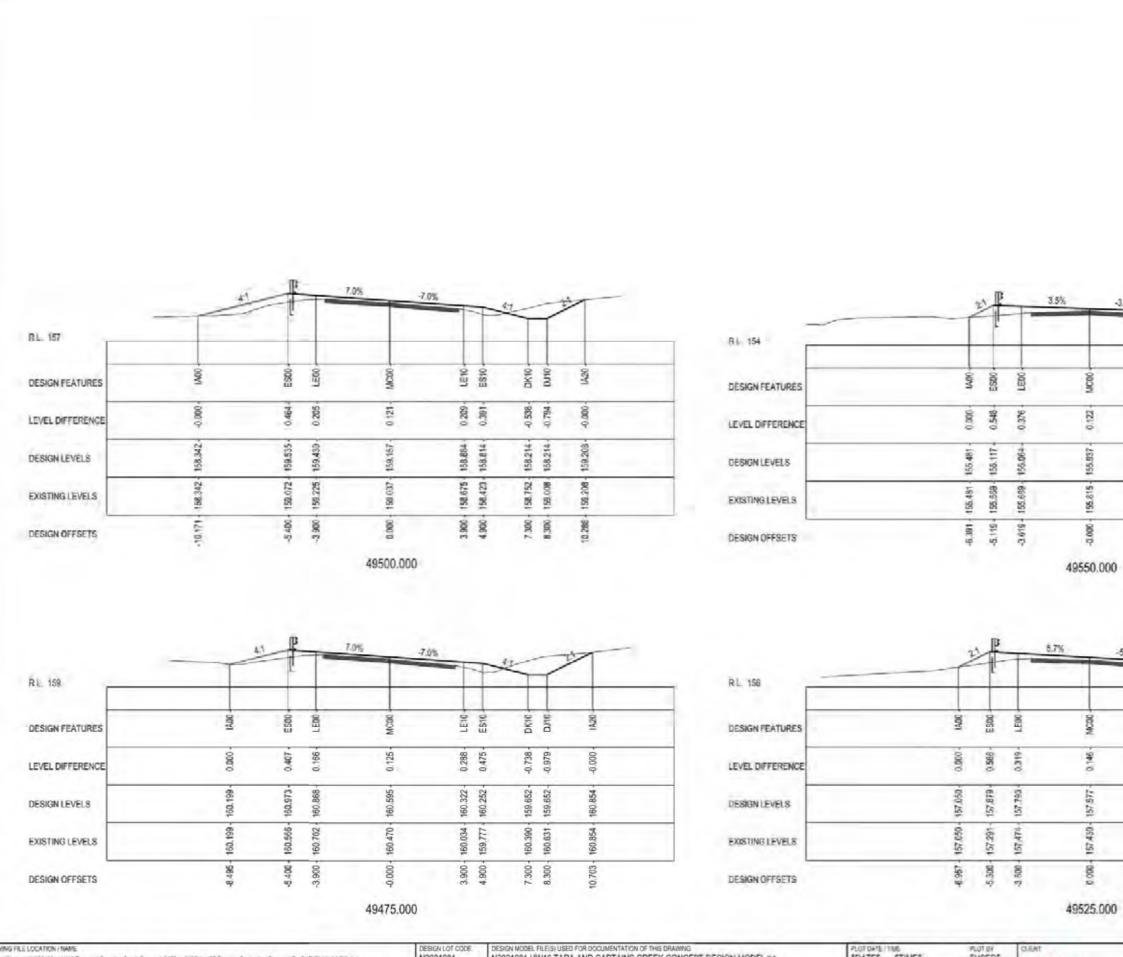
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14	DRAWING FILE LOCATION / NAME C/Datr/Winvisite/N2I/21081 HW16 Tate and Captains	Creek Segment 5470 s	5480 dgn(07	Drawing Production Pain and Profile P-PLAN-04-RC dgs	DESIGN LO N20210		DESIGN MODEL FILE(S) USED FOR DOCUMENTATION OF N2021081 HW16 TARA AND CAPTAINS CRE	the state of the s	PLOT DATE / TH \$DATES	e Stimes	FLOT BY SUSERS	CLENT	
8	EXTERNAL REFERENCE FILES	RE	V DATE	AMENUMENT / REVISION DESCRIPTION	WVR.No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREMAKED BY	TIRE	NAME	DATE	RYA	Lance 1
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12	DRAWING FILE LOCATION / NAME C1Datr/Worksets/N2I21081 HW16 Tars and Captains David Segmen	5470 m	5480 dgn 07-Dr	awing Production Pan and Profile P-PLAN-04-RC dgs	DESIGN LO N20210		DESIGN NODEL FILE(S) USED FOR DOCUMENTATION OF TO N2021081 HW16 TARA AND CAPTAINS CRE		PLOT DATE / TA SDATES		PLOT BY SUSERS	CLEAT	
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EXISTING LEVELS	153,809 -	153.878 -	153.988 -	154.116	153.992 -	153.821 -	153.953 -	154.159 -	154.361 -

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ESIGN FEATURES	PLOT DATE / TM		5 5.872 150.399 150.399 0.000 1.000 2.000 1.000 2.000 2.000 150.399 150.835 0.466 2.500	+ 150.621 - 150.830 - 0.269 -	3.0% - 000W - 04/0 - 598061 -	-3.0%	150.729 150.830 0.151 -	KYOG	2526-150,H44-150,144-0.000-	CIL .	NOT F	OR CO	NSTRU	_
ESIGN FEATURES	PLOT DATE / TM \$DATE\$ \$ ITTLE	TIMES	-5.872 150.399 150.399 0.0000 10000	-3 500- 150.621 - 150.830 - 0.269 -	3.0% 0000 - 0000 - 598051 - 59	-3.0%	2.500-150.729-150.830-0.151-	KYOC KIE-B	10000 - 1100144 - 120144 - 0000-	REHAE	BILITATIO		NSTRU	CTION
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DESIGN FEATURES	MOD	ESOU	LEDG	MC00	TEVO	ES:10-	DKIG	DUG	M20
EVEL DIFFERENCE	- 000/0-	0.367 -	0.266 -	0.132.	0.141 -	0.277 .	-0.573 -	-0.712 -	C.000.1
DESIGN LEVELS	152,006 -	152,556 -	152.568	162,587 -	152.492 -	152,462+	151,862 -	151.862 -	152,640 -
EXISTING LEVELS	152.068-	152.189-	152,302	152.466	152351 -	152.186	152.435	152.574 -	152.640.
DESIGN OFFSETS	5.980	5.000	3,500	0.000	3.600	4.500	6.900	7.900	1578

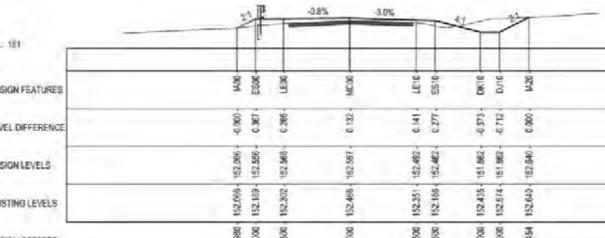
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SIGN FEATURES			1M00	ESO	(1900	M000		LE10	ES40	DK1	DUIO	1A20							
VEL DIFFERENCE			0.000.0	0.236	9.151.	0.167.		0.175	0.209	0.510	-0.560 -	0,000.0							
SIGN LEVELS			148.719-	149.025	148.070	149.175.		149.070	148.049	148.879 -	148.440 -	149,065-							
STING LEVELS			148.719-		616.916	145.008		48.895	148 842 148 840 148 840	148.879	149.000	149.065							
SIGN OFFSETS			5.512.		-3.500	49650.		3.500 -	4,650 - 4,656 - 4,656 -	5.465 - 6.900 -	7.900	9,151.							
SIGN OFFSETS				- 000 ·	-3500	- 0000-		3.500		11 5.465- 6.900-	7.900.	8,151.8		-					
			-5.612 -	- 000 ·	-3500	49650.	.000	3.500			7.900.	8,151.		-					
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SIGN FEATURES			5812.	E500	-3500	49650.	-3.0%		1	4.1		9,151							
L 149 SIGN FEATURES VEL DIFFERENCE			0.000 1000 - 5512	0.466) ESO	- 1, EB0	49650.	-3.0%	0.151- LETO	ESIO	4.1		8,151							
L 149 ESIGN FEATURES EVEL DIFFERENCE			150.399. 0.000. 0.000 - 5512.	- 150.835 - 0.466 \ ES00	-0,253 - LEDU	49650.	-3.0%	150.830 0.151 LETO	0229- 2510	120 120 0 000 1200 1200		8,151							
SIGN FEATURES			150.399 150.399 0.000 0.000 0.000 0.000 0.00 0.00	000 150.359 150.835 0.466 ( ES00	150.830 0.2559 LEDO	49650.	-3.0%	150.728- 150.830 0.151 LETO	150.650- 0.229- ES10-	4.1		8,151							
SIGN FEATURES			150.399 150.399 0.000 0.000 0.000 0.000 0.00 0.00	150.369 150.835 0.466 ES00	500 150.621 150.830 0.258 LE00 -3.500 -	49650. 30% 000W -0410 -598061 -519051 -000	-3.0%	150.728- 150.830 + 0.151 - LETO	150.622 150.850 0.229 ES10			8,151	NOT	FO	RCO	INST	RUC	TIO	N
L 149 ESIGN FEATURES VEL DIFFERENCE SSIGN LEVELS USTING LEVELS ESIGN OFFSETS	PLOT DATE/TIM	E STIME S	5 872 150.399 158.399 0.000 10.00 10.00 153.399 55.12	-5.000 150369 150.835 0.4669 ES00	500 150.621 150.830 0.258 LE00 -3.500 -	49650.	-3.0%	150.728- 150.830 + 0.151 - LETO	4 500 150.622 150.650 0.229 ES10		CUNC		NOT	FO	RCO	INST	RUC	_	A
L 149 ESIGN FEATURES EVEL DIFFERENCE ESIGN LEVELS ESIGN OFFSETS	SDATES : TITLE DRAMIN DR5 CHECK	MAKE M ROWLES D. JOHNSON	5512 - 5512 150 399 150 399 150 399 5400 - 1000 - 1000 - 1000 - 1512	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-3.500 150.621 150.830 0.259 LE00 -3.500 150.830 0.259	49650. 3.0% 000 -	-3.0%	3.500-150.728-150.830+ 0.151- LETO	4 500- 150.622 150.850 0.229 ES10		DUNC NERH	IL IGHWI REH	AY ABILITA TO 5480	ATION				_	-
ESIGN OFFSETS	SDATES : ITTLE DRAMN	MARE M. ROWLES D. JOHNSON M. ROWLES	-5.872 150.399 150.399 150.399 0.000 1A00 - 5.872 5512	5 0 0 1 2 2 0 1 2 2 0 1 2 2 2 0 1 2 2 2 0 1 2 2 2 2	-3.500 150.630 0.259 LEDO	49650. 30% 9000 - 0400 - 998061 - 9980625.	.000 -3.0% 000 Franspo or NSW	12:500-150.728-150.830 0.151- TE10	4500-150.622-150.652-150.650-0.229-ES10 0.02, 过前3		NUMA NOT AND	IL IGHW/ REH 470	AY ABILITA TO 5480	ATION	AND W			L	-

GDA 2020



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PREP,	DRAWING FILE LOCATION / NAME C/Gast/Worksets/N2821081 HW16 Tars and Captains D	Zeedi Segmeni 5470 to	5480/dgn07-D	awing Production/Pan and Profile P-PLAN-04-RC.dgs	DESIGN D N20210		DESIGN NODEL FILE(S) USED FOR DOCUMENTATION OF TH N2021081 HW16 TARA AND CAPTAINS CREI		SDATES	e Stimes	PLOT BY SUSERS	CLEAT	
	EXTERNAL REFERENCE FILES	RE	V DATE	AMENUMENT / REVISION DESCRIPTION	WVR.No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TIRE	NANE	DATE	H Y J S	Grand
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Ne o							SCALE 1200m		DESIGN	M ROWLES	13,193,30		1.1.00
AN -	1						(CONTRACTOR )		DESIGN CHECK	D JOHNSON	2.0.0		international lines
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Ë.		_					MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWSK		REGIONAL MAIN	

DESIGN FEATURES	those esoc.	LEOG	MCBIG	rene-	ES10	DKIG	1920	DESIGN FEATURES
LEVEL DIFFERENCE	- 192.0	0.185	0.156	0.221 -	0.331-	-0.291 -	-0.361 -	LEVEL DIFFERENCE
DESIGN LEVELS	146.705 - 147.052 -	147.097 -	147 202 -	147.097 -	147.067 -	146.467 -	146.467 - 146.886 -	DESIGN LEVELS
EXISTING LEVELS	146.706 - 146.711 -	146.912 -	147.046 -	146.875	146.736 -	146.757 -	146.827	EXISTING LEVELS
DESIGN OFFSETS	45.692 - 45.000 -	-3.500 -	0.000 -	3.500 -	4.500 -	6.900	8.739 -	DESIGN OFFSETS
DESIGN OFFSETS			49675.000					

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ESIGNIFEATURES DESIGNIFEATURES ESIGNIFEATURE	MODEL THE	PLOT DATE / TM \$DATE\$ \$		SERS	CLEM	Transpo		16-6 PAV		RHIGH	WAY EHABILITATION AND W	DENING	A
ENGLIDIFERENCE ESIGN LEVELS L. 141 ESIGN LEVELS KISTING LE					49	725.000					NOT FOR CO	NSTRUCTI	ON
Implementation         Implementation           Implementation <td< th=""><th>ESIGN OFFSETS</th><th></th><th>1</th><th>0003</th><th>-3 500</th><th>000 0-</th><th>3.500 -</th><th>2000</th><th>7.400.</th><th>8 4001-</th><th>10 g g</th><th></th><th></th></td<>	ESIGN OFFSETS		1	0003	-3 500	000 0-	3.500 -	2000	7.400.	8 4001-	10 g g		
L 141         1111 <t< td=""><td>KISTING LEVELS</td><td></td><td></td><td>142,774</td><td>142.950</td><td>143.050</td><td>142.975</td><td>142.655</td><td>128251</td><td>142.846</td><td>143 101</td><td></td><td></td></t<>	KISTING LEVELS			142,774	142.950	143.050	142.975	142.655	128251	142.846	143 101		
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ESIGN LEVELS ESIGN LEVELS L 141 L	EVEL DIFFERENCE			0.313	0,483+	0.193	0.157-	0.251	-0.160 -	- 1980	008.0		
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ISIGN FEATURES	VEL DIFFERENCE			0.288	0.154	0.121-	0.218	0.329	-0.432	-0.528	-90010-		
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DESIGN LEVELS	144,742 -	145.124 -	145.229 .	145.124 .	145.094 -	144.494 -	144,494	145.008 -
EXISTING LEVELS	144 742 -	144.952	145.078	44.900	. 44 736	144.575	144 825	145 008
DESIGN OFFSETS	-6.673 -	3.500 .	-000.0-	3,500 -	4.500	6.900 -	7,900.4	8.928

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RL 145

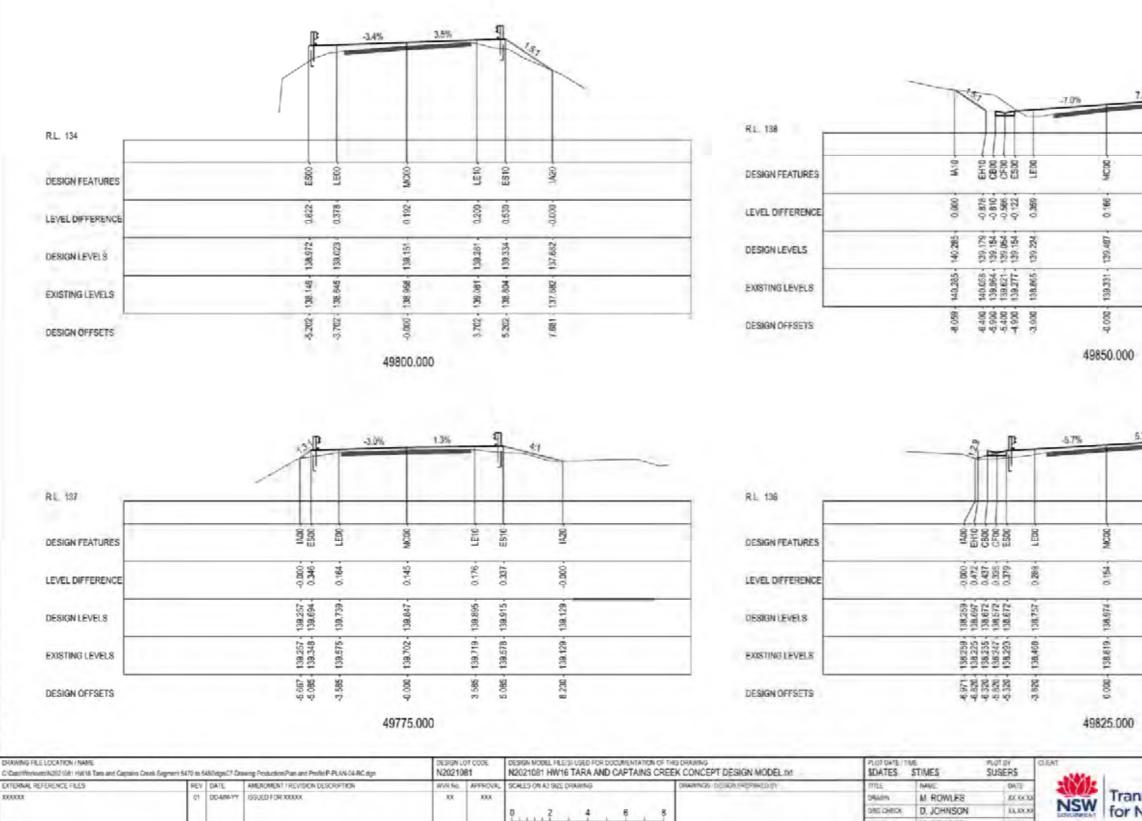
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VEL DIFFERENCE			0.268	0.154	0.121	0.218	0.329	0.432	0.528	0000				
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ESIGN LEVELS			111.141	(41.156	141.261	141.232	141 220	140,620	140.520	141.164				
				(8)	2	141	12	100	140	1				
XISTING LEVELS			140.739	141.003	141.140	10,015	140.892	141.052	141.146	141,164				
USTING LEVELS			140	17	12	ž	140	2	14	14				
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ES	LM00	LEDO -	MODIO	LEN0.	ES10	DK10	DNG	070
CE	-0.000 -	0.171.	0.153	0.223	0.358.	-0.082 -	-166.0-	-0000-0-
	144,742 -	145.124 -	145.229 -	145.124 -	145.094 -	144.494 -	144,494 -	145.008 -
s	144 742	144,952	145.078	. 44. 900	144 736	144.575	44 825	145.008
5	-6.673 -	3.500 .	-0.000.0-	3.500 -	4.500.4	6.900 -	7 900 -	8.928



MGA ZONE 56 (GDA2020) AHD

DRAWING FILE LOCATION / NAME C'IDastifierisatsik2021081 HW16 Tans and Captains Credit 5 EXTERNAL REFERENCE FILES X00000		DATE	aving Production/Past and Profile AMENOMENT / REVISION DI ISSUED FOR X0000X		p	DESIGN LO N202100 WVR No.		N2021081	L FILEIS) USED FOR HW16 TARA AN I SIZE DRAWING	CREEK COM	ING ICEPT DESIGN MODEL INI INGSI DESIGN PREPARED BY
C DataWerksets/N2121081 HW16 Tats and Captains Dreek 5					p	N20210	81	N2021081	HW16 TARA AN	CREEK COM	NCEPT DESIGN MODEL INT
	legment 5470 to 5	5450 dgm07-Dm	wing Production/Pan and Profil	P-PLAN-04-RC sg	p.						
and the second						-				 	
					49775.00	0					
DESIGN OFFSETS			-5.667 -	-3.585	-000-0-	1.1	3.585	1000.0	8 230		DESIGN OFFSETS
EXISTING LEVELS			139.267 -	139.575	139.702 -		139.719	0/010	139.129		EXISTING LEVELS
DESIGN LEVELS			139.257 -	139.739 .	139.647 -		139.895	C 20,000	138.129.		DESIGN LEVELS
LEVEL DIFFERENCE			-0.000	0.164	0.145		0.176	1000	- 000.0-		LEVEL DIFFEREN

THIS

M. ROWLES DOM: N DEBGNICHECK D. JOHNSON DL.O.JO PREPARED FOR REGIONAL MAINTENANCE SUSSO PROJECT WANAGEMENT NORTHERN SCOOP REGIONAL MAINTENANCE DELIVERY DESIGN MADE D. JOHNSON POJECT MADE R. GERSEKOWSKI

11,10,30

INCOME OF

NDEEDGN

D. JOHNSON

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34. 138.191	22- 138.253
139,004	86 - 138.7723 86 - 157.753
3.620	NOT FOR CONSTRUCTION
nsport NSW	KYOGLE COUNCIL 16 - BRUXNER HIGHWAY PAVEMENT REHABILITATION AND WIDENING SEGMENT 5470 TO 5480 CROSS SECTION
NORTHERN	PARS RECEIPATION No.         DS2022/000064         11           ISPUE ETATUS CONCEPT DESIGN         SDMS No.         SHEET NO.         SHEET NO.



1	DRAWING FILE LOCATION / NAME C/Castillorisets/N2021081 HW16 Tans and Captains Cavels Segme	ri 5470 m	5480 dgm07-Dr	awing Production Pan and Profile P-PLAN-04-RC dgs			DESIGN NODEL FILE(S) USED FOR DOCUMENTATION OF T N2021081 HW16 TARA AND CAPTAINS CRE		SDATES S	e TIMES	FLOT BY SUSERS	CLEAT	
1 0	EXTERNAL REFERENCE FILES	REV	DATE	AMENUMENT / REVISION DESCRIPTION	WVR.No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREPARED BY	TILE	NAVE	DATE	RIVIS	George 1
-	2000	01	DD-AM-YY	ISSUED FOR XXXXX	XX	XXX			9840m	M ROWLES	ACCOUNT.	A LOLA	Trans
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							SCALE 1200m		DESIGN	M. ROWLES	13.00.0		
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1 11							CO-ORDINATE SYSTEM HEIGHT DATUM	-	DESIGN MADE	D. JOHNSON	\$25,557,30	PROJECT MANA	the second
							MGA ZONE 56 (GDA2020) AHD		PROJECT MADE	R. GERSEKOWSH	0 00000	REGIONAL MAIN	

RL. 139						
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DESIGN LEVELS	140.260- 140.256- 140.211- 140.211- 140.281-	140.554 -	140.827 -	140.932 -	140.332 -	140.910 -
EXISTING LEVELS	140.260 140.258 140.258 140.255 140.178 140.178	140.424 -	140.500 -	140.534 -	141.047 -	140.910 .
DESIGN OFFSETS	6 4 37 - 6 4 900 - 4 900 -	0.000.0	3.900 -	5.400 -	7,800 -	9.956

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141,649 .	142.211 -	EXISTINGLEVELS	140.431
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R1. 340		-			-
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DESIGN LEVELS	141,549 141,437 141,437 141,442 141,442 141,442 141,442 141,442	141/766-	142.026 -	141,498 -	142.137
EXISTING LEVELS	141,549 141,535 141,535 141,535 141,535 141,195 141,195	141 635.	141.653	142.136-	142,137
DESIGN OFFSETS	6 558 6 406 6 406 7 406 7 406 7 406 7 406	- 000 q-	3900-	7.300	9.578.

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DRAWING FILE LOCATION / NAME C/Castillovisues/N2821081 HW16 Tam and Captains C EXTERNAL REFERENCE FILES XXXXXX	REV	DATE	aving Production/Pan and Profile AMENDMENT / REVISION DE ISSUED FOR X0000X		<u>691</u>	N202106 WVR No. XX	AFFROVAL XXX		DRAWINGS ( DESIGN PREPARED BY	ITTLE DRAWN DRG CHECK DESIGN DESIGN CHECK	MARE M ROWLES D. JOHNSON M ROWLES D JOHNSON D. JOHNSON	0475 82.00 33.00 10,00	o PRERVIED REGION	_	Tran for I
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	Deck Segment 5470 to 5	480 dgm07-Dra	aving Production/Plan and Profile	P-PLAN-04-RC	dign .	N202108	51	NZUZIUOT HWIETAKA AND CAPTAINS CKEI	ER CONCEPT DESIGN MODELAN	405164 -	LINEA	audenta		Safa I	(
			15,000,000	Call College		DESIGN LO		DESIGN MODEL FILE/SI USED FOR DOCUMENTATION OF TH N2021081 HW16 TARA AND CAPTAINS CREI		PLOTONTE/THE SDATES S	TIMES	sugter	CLEAT		_
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DESIGN LEVELS			143,606 -	143.650 -	143.810 -		143.971 -		DESIGN LEVELS		142.918	141,991- 141,965- 141,965- 141,965-	-965 111		101/201
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IN MODEL IM	SDATES	e Stimes	PLOT SUSE	ers	CLEAT	A	-			15-BRI	COUNCIL IXNER HIGHY	NOT F		-		A
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DESIGN LEVELS	143.854 - 143.159 - 143.159 - 143.159 - 143.134 - 143.134 -	143.164-	43.268 -	143.347 - 143.369 - 143.269 - 143.57 - 143.511 -	
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DRAWING FILE LOCATION / NAME C/DasHimmisses/N2521381 HW16 Tans and Captal	s Caudi Segmeri 5470 ta 5480d	igni07-Drai	wing Production Plan and Profile P-PLAN-04-RC.dgs	DESIGN LO N20210	B1	DESIGN NODEL FILEISI USED FOR OCCUMENTATION OF THIS DRAWING N2021081 HW16 TARA AND CAPTAINS CREEK CONCEPT DESIGN MODEL 1M			SDATES STIMES SUSERS LEAT KYOCLE COUNCIL				america pa	a marrie a	
EXTERNAL REFERENCE FILES	REV DA	TE	AMENUMENT / REVISION DESCRIPTION	WVR.No.	APPROVAL	SCALES ON A3 SIZE DRAWING	DRAWINGS / DESIGN PREMAKED BY	TILE	NAVE	DATE .	RIVIA	a	PAVEMENT REHABIL	ITATION AND WID	ENING
20000	01 DD	AMAYY	ISSUED FOR XXXXX	XX	XXX			9840m	M ROWLES	20100306	A LCLA	Transport	SEGMENT 5470 TO 5		
						0 2 4 6	8	ORS CHECK	D. JOHNSON	83,835,338	NSW	for NSW	CROSS SECTION		
						SCALE 1200m	-7.	DESIGN	M. ROWLES	100.00.00		1.00.000.00			
1								JERGN CHECK	D JOHNSON	0.0.0	PREPARED FOR	and the	ANS RESERVICEN DCOL	22/000064	
								DESIGN MAGR	D. JOHNSON		REGIONAL MAI				
	030		CO-ORDINATE SYSTEM HEIGHT DATUM MGA ZONE 56 (GDA2020) AHD	PROJECT MILLAR R. GERSEKOWSKI		PROJECT WARPSEMENT NURTHERN			CONCEPT DESIGN	GA6248429	RC-0021				

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DESIGN FEATURES	0V10	111 2888 8888 8888 8888 8888 8888 8888	LEDO	MCBG	PER	CB10 CB10 CB10 CB10 CB10 CB10 CB10 CB10	12
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DESIGN LEVELS	140,804 -	138.557 - 138.552 - 138.532 - 138.532 -	138,562 -	138.667 -	138.562 -	138.532 - 138.432 - 138.532 - 138.532 -	140.110 -
EXISTING LEVELS	140.804 -	139.369 - 138.935 - 138.481 - 138.481 -	138.371 -	138 499 .	138.360 -	138 199 - 138 685 - 139 167 - 139 630 -	140 110 -
DESIGN OFFSETS	-8.370 -	6.000 4.500	-3.500 -	0.000 -	3.500 -	4.500 - 5.000 - 6.000 -	8.329.

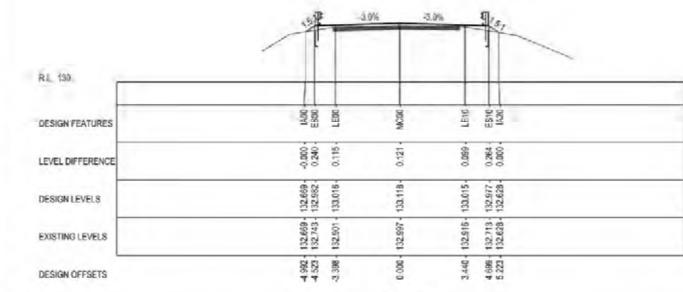
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SIGN LEVELS	12.741	133.547	133.586	133.691		133.541	
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ESIGN FEATURES		134,805- 134,781- 134,681- 134,781-	134,598-134,811 -		134.278 - 134.751 -	200	

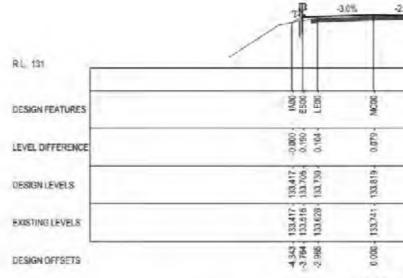
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DESIGN LEVELS	138.681	136.536 138.511 138.511	136,541	136.646	136.641 -	136.511 136.411 136.535 136.535	138.214 -
EXISTING LEVELS	138 881	137.428 136.908 136.388	136.344	- SH - HE	36.269	136.046 136.538 137,003	38.214-
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INGLEVELS		132.741.		133.385.	133,457 -	133.621 -	133.398	133.256 -	133.049 -		
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DRAWING FILE LOCATION / NAME     Cridas/WorksetsIN2021081 HW16 Tate and Capital	ins Caucil Segment 5470 to	5450idgn07-D	nawing Production/Plan and Profile P. PUV4-04-RC dgr		DESIGN LI N20210		DESIGN MODEL FILEISI USED FOR DOCUMENTATION OF TH N2021081 HW16 TARA AND CAPTAINS CRE		SDATES		FLOTER SUSERS	CLENT	
EXTERNAL REFERENCE FILES	REV	DATE	AMENUMENT / REVISION DESCRIPTION		WVR No.	AFFROVAL	SCALES ON A3 SIZE DRAWING	DRAININGS / DESIGN FREPANED BY	TITLE	NAME	, DATE	E AV	1
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2							CO-ORDINATE SYSTEM HEIGHT DATUM	-	SESIGN MYOR	D. JOHNSON		PROJECT MA	
							MGA ZONE 56 (GDA2020) AHD		PROJECT MNGR	R. GERSEKOWSK		REGIONAL M	





	412 -3.1% -2.1%
R.L. 130	
DESIGN FEATURES	
LEVEL DIFFERENCE	-0.000 -0.000 -0.015 -0.015
DESIGN LEVELS	132.931. 133.168- 133.196- 133.196-
EXISTING LEVELS	- 132 250 - 132 250 - 112 250 - 112 250
DESIGN OFFSETS	-3.868 -3.869 -0.000 -0.000 -3.200

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R.L. 133		
DESIGN FEATURES	ES10	
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EXISTING LEVELS	134,146 134,296 134,295 134,505 134,505	
DESIGN OFFSETS	-5.338 - -4.936 - -3.436 - 5.049 - 5.049 -	
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RL 131		
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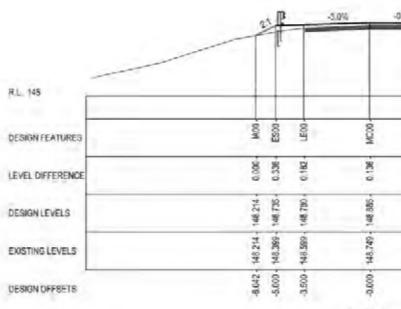
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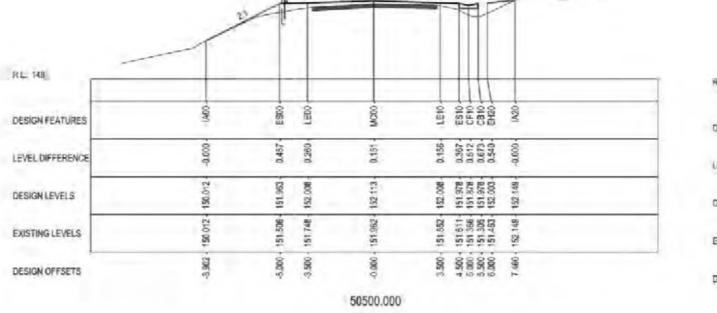


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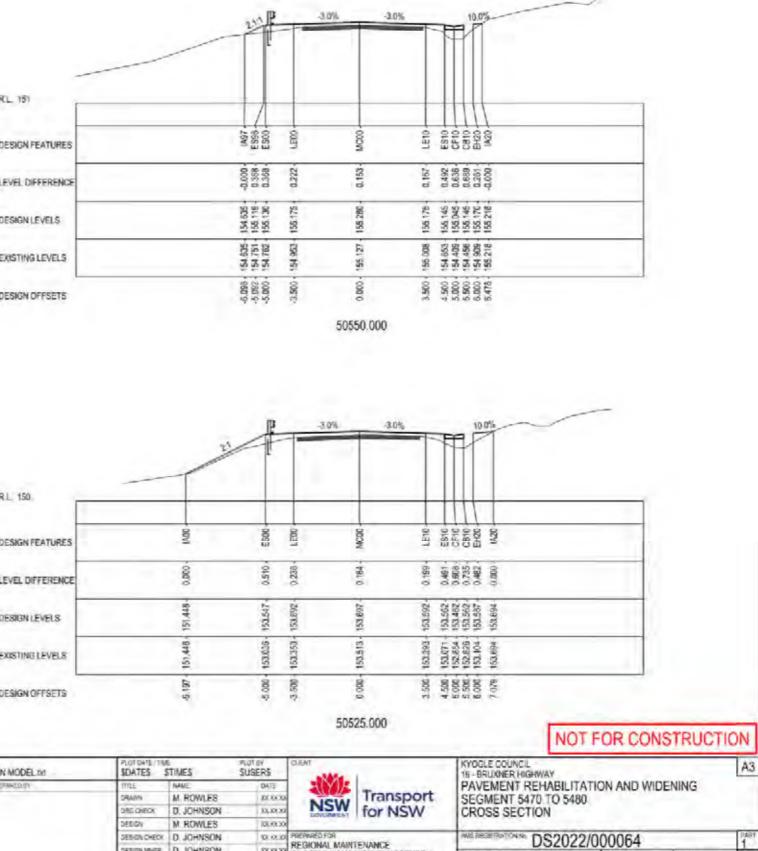
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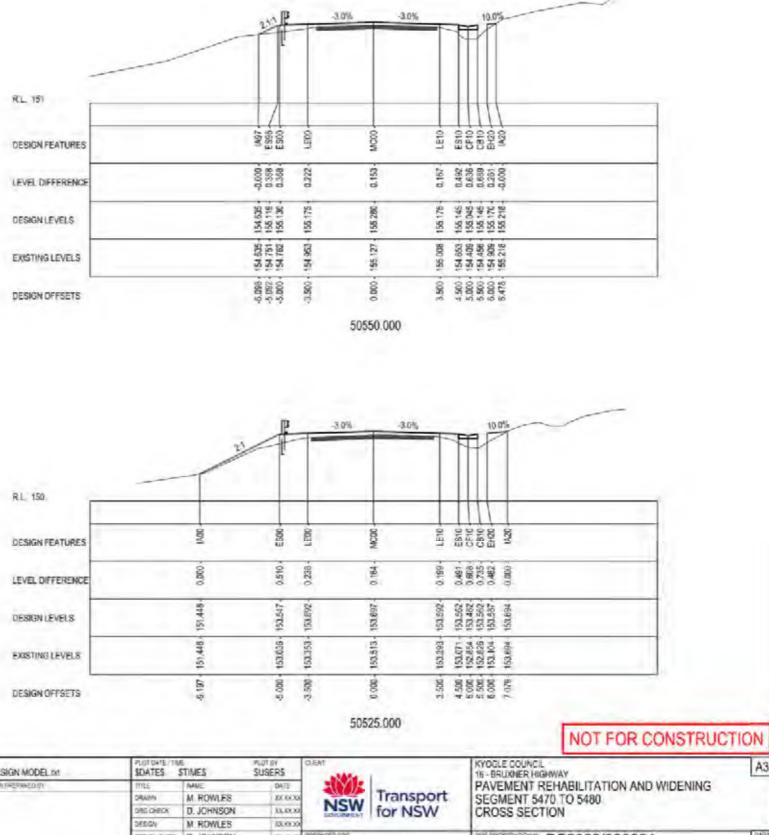
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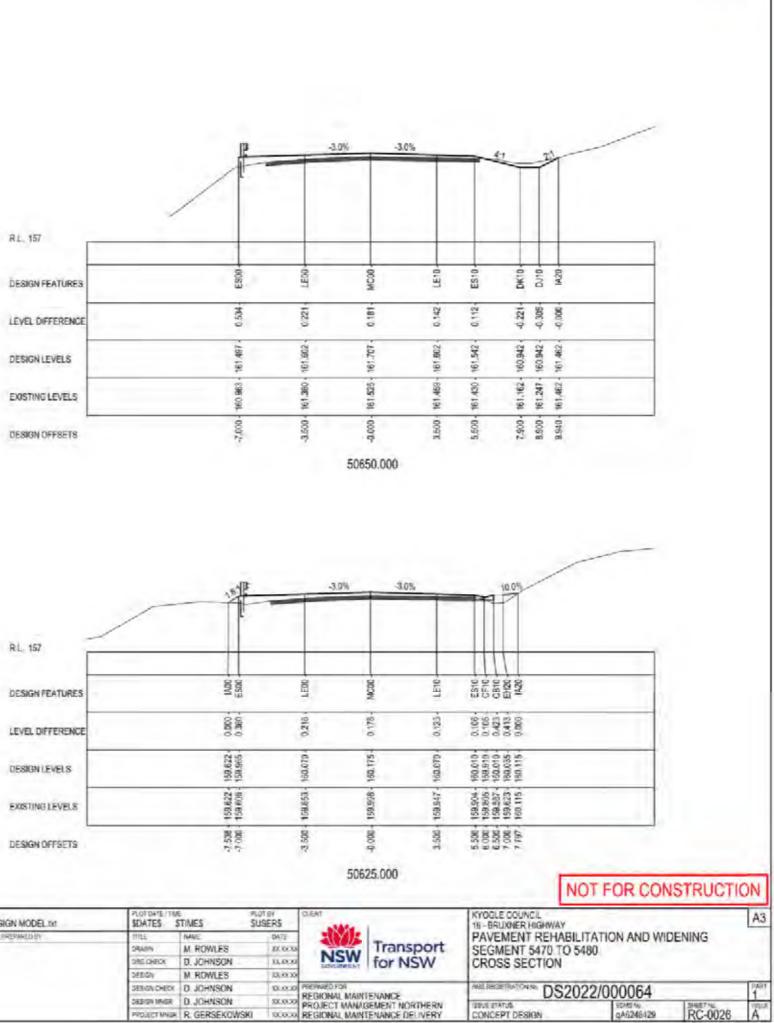


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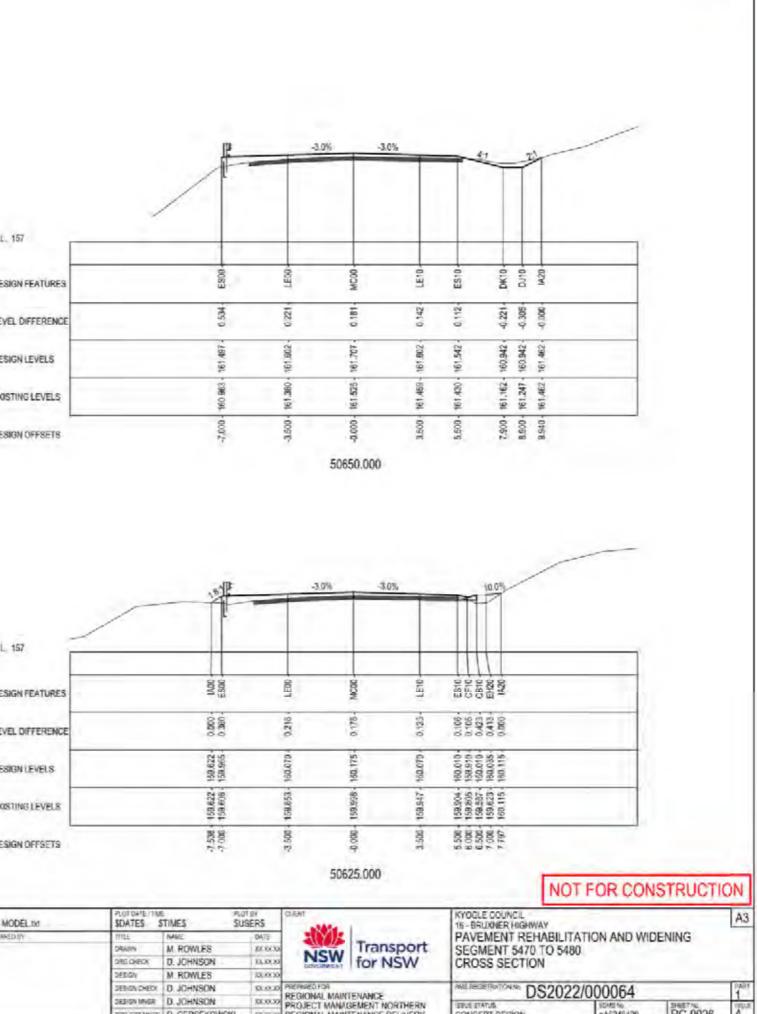


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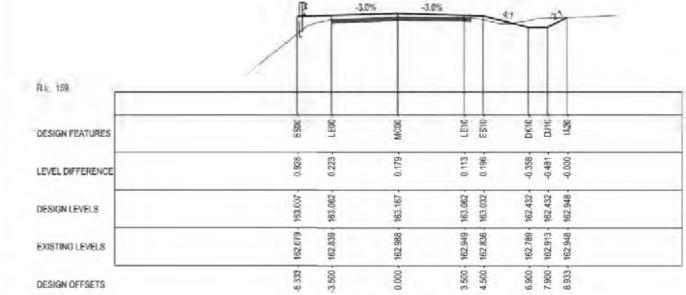


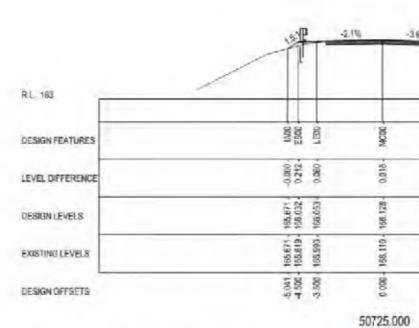
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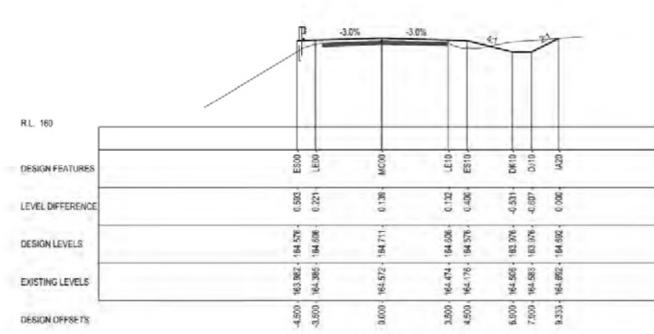
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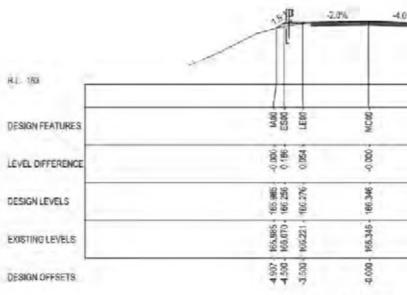
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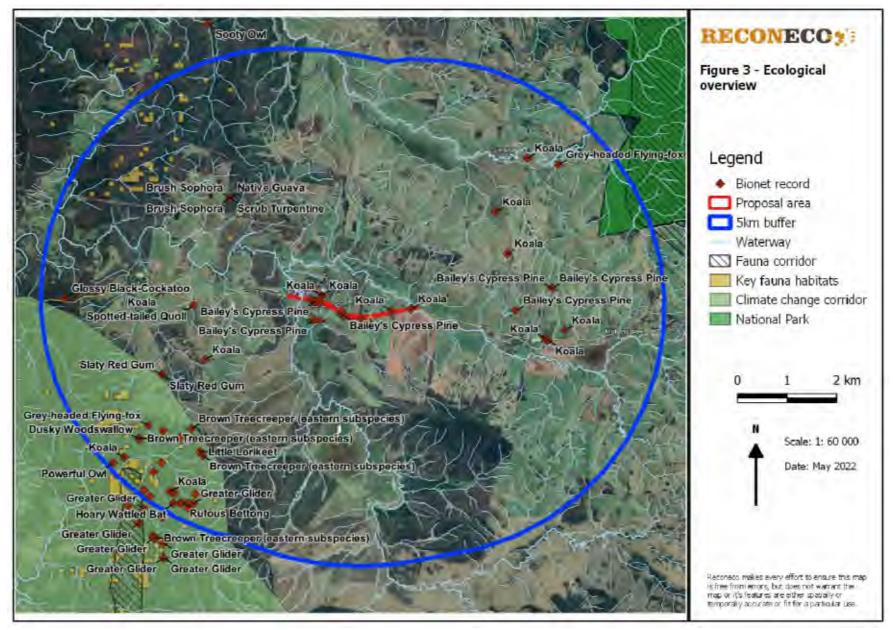


Figure 3 Ecological overview of the landscape surrounding the proposal area.

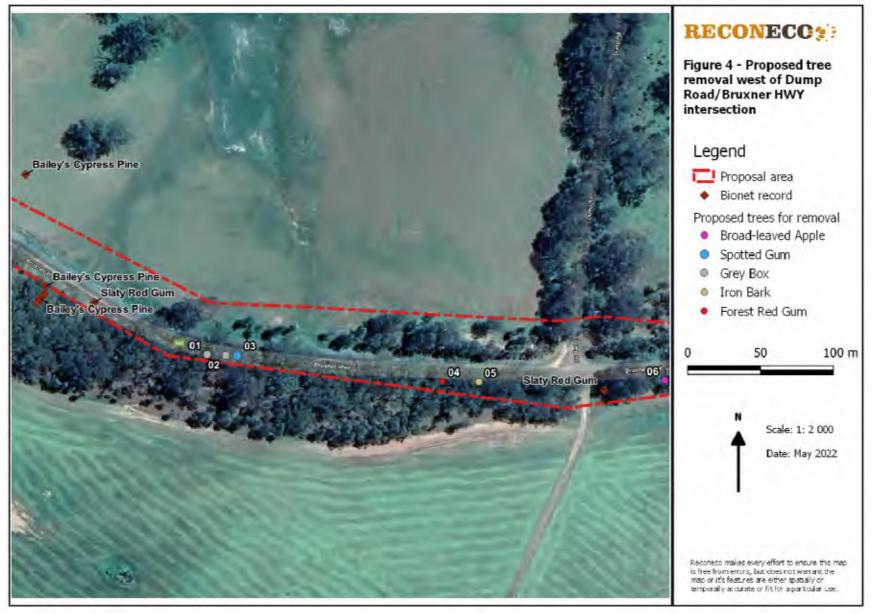
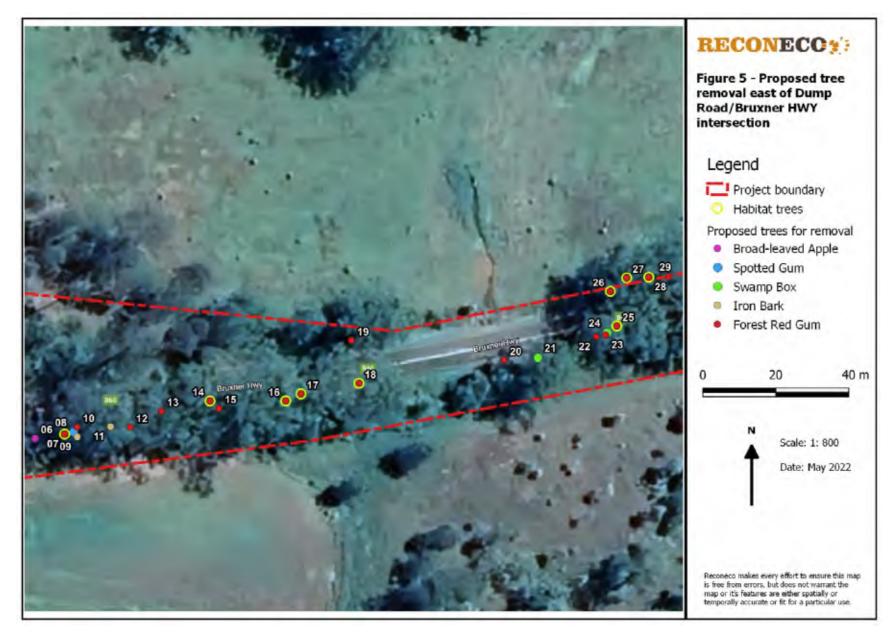


Figure 4 Proposed tree removal and nearby Bionet records west of Dump Road/Bruxner Highway intersection.



**Figure 5** Proposed tree removal and habitat trees east of the Dump Road/Bruxner Highway intersection.



Figure 6 Endangered Bailey's Cypress Pine (*Callitris baileyi*) environmental protection west of Sandilands Rest Area. Note: seedlings not recorded.

# Appendix C

Contaminated Lands Database Search Results

Home Public registers Contaminated land record of notices

### Search results

Your search for:LGA: KYOGLE COUNCIL

#### did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

- Contamination may be present but the site has not been regulated by the EPA under the Contaminated Land Management Act 1997 or the Environmentally Hazardous Chemicals Act 1985.
- The EPA may be regulating contamination at the site through a licence or notice under the Protection of the Environment Operations Act 1997 (POEO Act).
- Contamination at the site may be being managed under the <u>planning</u> process.

More information about particular sites may be available from:

- The POEO public register
- The appropriate planning authority: for example, on a planning certificate issued by the local council under <u>section 149 of the Environmental Planning and Assessment Act</u>.

See What's in the record and What's not in the record.

If you want to know whether a specific site has been the subject of notices issued by the EPA under the CLM Act, we suggest that you search by Local Government Area only and carefully review the sites that are listed.

This public record provides information about sites regulated by the EPA under the Contaminated Land Management Act 1997, including sites currently and previously regulated under the Environmentally Hazardous Chemicals Act 1985. Your inquiry using the above search criteria has not matched any record of current or former regulation. You should consider searching again using different criteria. The fact that a site does not appear on the record does not necessarily mean that it is not affected by contamination. The site may have been notified to the EPA but not yet assessed, or contamination may be present but the site is not yet being regulated by the EPA. Further information about particular sites may be available from the appropriate planning authority, for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act. In addition the EPA may be regulating contamination at the site through a licence under the Protection of the Environment Operations Act 1997. You may wish to search the <u>POEO</u> public register.

For business and industry **^** 

6 April 2022

For local government ^

#### Contact us

131 555 (tel:131555)

Online (https://yoursay.epa.nsw.gov.au/epa-website-feedback)

info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index) Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer) Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy) Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

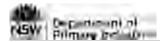


Find us on

Search Again Refine Search Search TIP

To search for a specific site, search by LGA (local government area) and carefully review all sites listed.

... more search tips



#### Cattle dip site locator

For more information about each dig site, click on the name below.

This search retrieved 5 dip sites.

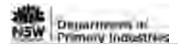
#### Dip name Road Town/Localit BARBERS (https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-diseases/ticks/cattle-dip-site-BRUXNER MUMMULGUN locator? HIGHWAY CASINO sq\_content\_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGRGlwJTJGRGV0YWlscyUyRjkwNiZhbGw9M0%3D%3D) BRUXNER VIA EVERSONS (https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-diseases/ticks/cattle-dip-MALLANGANE site-locator? HIGHWAY sg\_content\_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGRGlwJTJGRGV0YWlscyUyRjExNTEmYWxsPTE%3D) HILLS (https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-diseases/ticks/cattle-dip-site-BRUXNER MUMMULGUN locator? HIGHWAY sg\_content\_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGRGlwJTJGRGV0YWlscyUyRjkxNSZhbGw9M0%3D%3D) NUGGETTS (https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-diseases/ticks/cattle-dip-BRUXNER NORTH HIGHWAY TABULAM site-locator? <u>sq\_content\_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGRGlwJTJGRGV0YWlscyUyRjExNjlmYWxsPTE%3D)</u> BRUXNER RICHMOND RANGE (https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-VIA MALLANGANE HIGHWAY diseases/ticks/cattle-dip-site-locator? sg\_content\_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGRGiwJTJGRGV0YWlscyUyRjExNDkmYWxsPTE%3D)

#### Find dip sites

Dip name	
Road	bruxner highway
Town/Locality	
Council	select all V
	Search

The information contained in this web page is based on knowledge and understanding at the time of writing. However, because of advances in knowledge, users are reminded of the need to ensure that information upon which they rely is up to date and to check currency of the information with the appropriate officer of Industry& Investment NSW or the user's independent adviser.

www.dpi.nsw.gov.au



### Cattle dip site locator

#### Dip site location

Dip name	NUGGETTS	Note: Map references are for 25,000 series topographic and co ordinates are in AGD66 AMG zone 56				
Road	BRUXNER HIGHWAY	Mapsheet	9440-III-S			
Town/Locality	NORTH TABULAM	Easting	462450			
Cauncil	KYOGLE	Northing	6803480			
Parish	TABULAM	County	DRAKE			

#### Dip site status

**IMPORTANT NOTE** Cattle dip site information provided by NSW DPI is based on our own hard copy files representing currently known data. NSW DPI is not a public consent authority for the development of land containing cattle dip sites. It is possible that the physical conditions of a cattle dip site including soil, structures, access and usage - may have been changed due to extreme natural events or landowner and developer actions that NSW DPI cannot be aware of. For more specific and accurate status information a physical inspection should be made and enquiries should always be directed to the appropriate Shire Council.

Dip Status	LAPSED	Licence/Lease Status
Land Type	LEASE	Licence/Lease Expiry Date
Explanation of status terms (https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal- diseases/ticks/cattle-dip-site-locator?		

<u>sq\_content\_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGRGWJTJGRXhwbGEpbiZhbGw9MQ%3D%3D)</u>

#### **Chemical Details**

IMPORTANT NOTE: Chemical history has been retrieved from a copied laboratory log. In some cases it may be confirmed by entries in the hard copy lease folder but generally the chemical record is based on this single lab document. It is possible that there are inaccuracies as well as errors made

Chemicals used in dip bath	Date first used
ARSENIC	2/51
DDT	12/55
DIOXATHION	4/62
ETHION	5/72
PROMACYL	3/78

#### **Current Details**

Current Chemical	PROMICIDE
Dip bath status/contents	LIQUID, CRACKED

New search (https://www.dpi.nsw.gov.au/animals-and-livestock/beef-cattle/health-and-disease/parasitic-and-protozoal-diseases/ticks/cattle-dip-sitelocator?sg\_content\_src=%2BdXJsPWh0dHBzJTNBJTJGJTJGYnRjLmRwaS5uc3cuZ292LmF1JTJGJmFsbD0x) | Back the appropriate officer of Industry& Investment NSW or the user's independent adviser.

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# Appendix D

Heritage Database Search Results



08/04/2022

Ross Gersekowski Project / Contract Manager Regional and Outer Metropolitan Transport for NSW

Dear Ross,

# Little Creek to Tabulum Rivulet - Stage 1 of the *Procedure for Aboriginal cultural heritage* consultation and investigation (the procedure).

The project, as indicated in the Procedure for Aboriginal cultural heritage consultation was assessed as being unlikely to have a potential impact on Aboriginal cultural heritage.

Please contact, your local Aboriginal Cultural Heritage Officer, and your regional environmental staff to reassess any potential impacts on Aboriginal cultural heritage if your project changes.

TfNSW staff and/or contractors should be aware of the potential of Aboriginal objects (including skeletal remains) being discovered during the project, if this occurs all works in the vicinity of the find must cease. Follow the steps outlined in the Roads and Maritime Services' *Unexpected Archaeological Finds Procedure.* 

For further assistance in this matter do not hesitate to contact me.

Yours sincerely

Tabatha Cann Aboriginal Cultural Heritage Officer Transport NSW

08/04/2022



## AHIMS Web Services (AWS) Search Result

Date: 06 April 2022

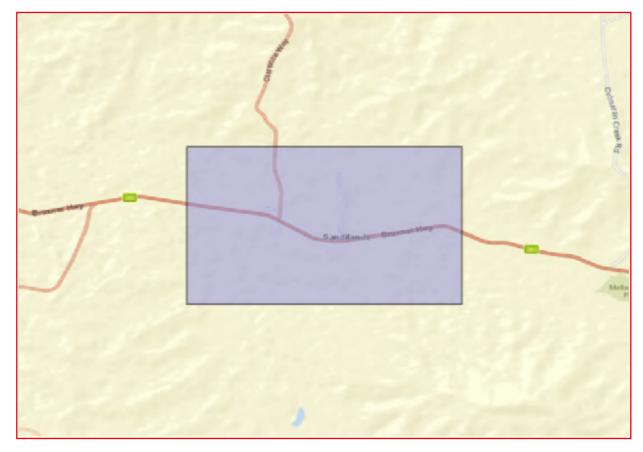
Taylor Craig 159 Lindendale Road Wollongbar New South Wales 2477 Attention: Taylor Craig

Email: taylor@reconeco.com.au

Dear Sir or Madam:

AHIMS Web Service search for the following area at Lat, Long From : -28.911, 152.6442 - Lat, Long To : -28.8928, 152.6751, conducted by Taylor Craig on 06 April 2022.

The context area of your search is shown in the map below. Please note that the map does not accurately display the exact boundaries of the search as defined in the paragraph above. The map is to be used for general reference purposes only.



A search of Heritage NSW AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

0 Aboriginal sites are recorded in or near the above location.
0 Aboriginal places have been declared in or near the above location. \*

#### If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (https://www.legislation.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

#### Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are
  recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

## **Search Results**

#### No results found.

Enter at least one search criterion.

#### <u>Search Hints</u>

						Search	Reset form
Place name							
Street name Bruxner Highway							
					Chata		
Town or suburb					State	South Wales	~
Country Australia							
Advanced search option	S						
List							
All Lists			~				
Different lists will provide dif	ferent status and class	options					
Local Government Area					Place	ID number	
Legal status					Class		
All 🗸					All	🗸	
Keyword Search ✓ Description	Statement of Si	ignificance			Place hi	story	
Latitude/Longitude							
	Ν						
	Latitude 1						
Longitude 1	S	5	Longitude 2				
W	Latitude 2		0	E	Е		
					2		
	S						
	S						
<ul> <li>Wholly within region</li> <li>Wholly or partially with</li> </ul>	in region						
Longitude coordinates should Latitude coordinates should l							
Map Ref No							
1:100,000 eg 2357 1:250,000 eg SF-50-01							

#### Search Hints

- Not all fields need to be filled in. The fewer you fill in the more results you will get.
- If you cannot find a place, check spelling and try alternative names. Reduce the number of words that you include and use fewer fields.

• The Local Government field used on its own will provide a comprehensive list of places in an area.

Report Produced: Wed Apr 6 11:08:27 2022

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## Kyogle Local Environmental Plan 2012 (2013 EPI 25)

Current version for 4 March 2022 to date (accessed 6 April 2022 at 11:10)

Schedule 5

#### Schedule 5 Environmental heritage

#### Part 1 Heritage items

(Clause 5.10)

Suburb	Item name	Address	Property description	Significance	Item no
Bonalbo	St Andrew's Presbyterian Church	10 Bonalbo Street	Lot 2, Section 6, DP 6063	Local	1368
Bonalbo	St Patrick's Catholic Church	23–25 Capen Street	Lot 1, DP 327600	Local	1004
Bonalbo	Bonalbo Cemetery	Clarence Way	Lot 7015, DP 1000923	Local	1371
Bonalbo	Bonalbo Showground	Clarence Way	Lots 47, 129, 130, 158 and 47, DP 751077	Local	1202
Bonalbo	Pine trees	Clarence Way	Road reserve	Local	1369
Bonalbo	Brown's Homestead (former)	13997 Clarence Way	Lot 61, DP 819068	Local	1013
Bonalbo	Bonalbo and District Community Hall	4 Koreelah Street	Lot 2, DP 835779	Local	I171
Bonalbo	Kirkpatrick's residence	4 Peacock Street	Lot 1, DP 328778	Local	1006
Bonalbo	Butter Factory (former)	1 Sandilands Street	Lots 220 and 221, DP 855348	Local	1002
Bonalbo	CBC Bank (former)	11–15 Sandilands Street	Lot 1, Section 8, DP 6063	Local	1009
Bonalbo	Hardware store	25 Sandilands Street	Lot 13, DP 319387	Local	1011
Bonalbo	Bank of NSW (former)	26–30 Sandilands Street	Lot 1, DP 17478	Local	1010
Bonalbo	Foodworks store	27 Sandilands Street	Lot 12, DP 319387	Local	1008
Bonalbo	Residence and shop	32 Sandilands Street	Lot 8, Section 3, DP 6063	Local	1007
Bonalbo	Blacksmith's shop (former)	39 Sandilands Street	Lot 1, DP 590423	Local	I012
Bonalbo	Patrick McNamee Anzac Memorial Park	Woodenbong Road	Lot 1, DP 835779	Local	1203
Bonalbo	Masonic Lodge (former)	73 Woodenbong Road	Lot 5, Section A, DP 10036	Local	1001
Cawongla	Homestead	1933 Cawongla Road	Lot E, DP 412306	Local	1022
Cawongla	Bunya pine trees	Kyogle Road		Local	1205

https://legislation.nsw.gov.au/view/html/inforce/current/epi-2013-0025#sch.5

4/	2022, 11:13	K	yogle Local Environmental	Plan 2012 (2013 EPI 25)	- NSW Legislat	ion
	Cawongla	Teacher's residence (former)	5325 Kyogle Road	Lot 185, DP 728682	Local	1020
	Cawongla	Cawongla store	5329 Kyogle Road	Lot 101, DP 875472	Local	I021
	Cawongla	Cottage	5336 Kyogle Road	Lot 1, DP 378105	Local	I172
	Cedar Point	Residence	12845 Summerland Way	Lot 222, DP 715611	Local	1058
	Cougal	Gradys Creek Railway Bridge No 5	Gradys Creek (near the railway loop)		Local	I160
	Cougal	Settlement (former)	Gradys Creek Road	Lot 16, DP 264312; Lot A, DP 388477; Lot 51, DP 620068	Local	1165
	Cougal	Lions Road	Lions Road	Part of road reserve	Local	1162
	Cougal	The Border railway loop	Richmond Gap, Lions Road	Part of Richmond Gap	State	1163
	Doubtful Creek	Dyraaba Hall	1856 Sextonville Road	Lot 357, DP 755732	Local	1372
	Doubtful Creek	St Faith's Anglican Church	1876 Sextonville Road	Lot 4, Section 1, DP 13825	Local	I153
	Dyraaba	Dyraaba Station homestead complex	755 Dyraaba Road	Lot 9, DP 1152135	Local	1156
	Ettrick	Residence	39 Pines Road	Lot 1, DP 610679	Local	I157
	Geneva	Omagh residence	323 Omagh road	Lot 3, DP 881814	Local	I046
	Geneva	Residence	29 Saville Street	Lot 2, DP 537073	Local	I048
	Green Pigeon	Community centre	705 Green Pigeon Road	Lot 185, DP 755707	Local	1365
	Kilgra	Wyangarie Homestead	124 Homestead Road	Lot 2, DP 701764	Local	I188
	Kilgra	Bundock Plaque	Summerland Way and Homestead Road	Road reserve	Local	I169
	Kyogle	Residence	6 Anderson Street	Lot 6, DP 23374	Local	1024
	Kyogle	Methodist Parsonage (former)	20 Bloore Street	Lot 2, DP 1067865	Local	1028
	Kyogle	Industrial building	33 Bloore Street	Lot 278, DP 4517; Lot 277, DP 783826	Local	1025
	Kyogle	Kyogle Homestead remains	31 Bundock Lane	Lot 64, DP 12117	Local	1044
	Kyogle	Anglican Manse (former)	13–15 Campbell Road	Lot 1, DP 223989	Local	1031
	Kyogle	Norco Factory, group of buildings	1–3 Chauvel Street	Lots 1 and 2, DP 1027750; Lot 2, DP 1067947	Local	I061
	Kyogle	Railway station, group of buildings	Ettrick Street	Lot 12, DP 1095432; Lot 1, DP 181905	Local	I159
	Kyogle	Station master's residence	52 Ettrick Street	Lot 2, DP 811042	Local	I389
	Kyogle	Residence	15 Fawcett Street	Lot 30, DP 12117	Local	I032
	Kyogle	Kyogle Roxy Theatre (former)	7 Geneva Street	Lot 255, DP 4517	Local	1035
	Kyogle	Ambulance station (former)	8 Geneva Street	Lot 248, DP 4517	Local	I401

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)4/:	2022, 11:13	Ky	yogle Local Environmental	Plan 2012 (2013 EPI 25)	- NSW Legislat	ion
	Kyogle	Residence	23 Geneva Street	Lot 3, DP 207289	Local	1036
	Kyogle	Residence	49 Geneva Street	Lot 172, DP 781940	Local	1037
	Kyogle	Ganger Cottage (former)	George Street	Lot 115, DP 755734	Local	1038
	Kyogle	Court House	Groom and Geneva Streets	Lot 1, DP 812650	Local	1033
	Kyogle	Kyogle Primary School and listed plantings	Groom Street and Rous Road	Lot 129, DP 755734	Local	1034
	Kyogle	St Andrew's Presbyterian Church	54–56 Groom Street	Lot 1, DP 328356	Local	I041
	Kyogle	Presbyterian Church Hall	58 Groom Street	Lot 13, DP 9839	Local	1051
	Kyogle	Police station	64–66 Groom Street	Lot 2, DP 812650	Local	1374
	Kyogle	Residence	11 Highfield Road	Lot 1, DP 567936	Local	I043
	Kyogle	Houses	52–54 Highfield Road	Lots 1 and 2, DP 35487	Local	I042
	Kyogle	Presbyterian Manse	37–39 Mount Street	Lot 150, DP 755734	Local	I049
	Kyogle	Water filtration plant	1 Plant Street	Lot 1, DP 1067865	Local	I027
	Kyogle	Residence	17 Rous Street	Lot 3, DP 552506	Local	1039
	Kyogle	Residence	19 Rous Street	Lot 157, DP 755734	Local	I040
	Kyogle	Kyogle Cemetery	Runnymede Road	Lot 7001, DP 96777	Local	1053
	Kyogle	Kyogle Council Chambers	1 Stratheden Street	Lots 282 and 283, DP 4517	Local	1050
	Kyogle	Masonic Lodge	12 Stratheden Street	Lot 101, DP 781824	Local	1052
	Kyogle	Clock tower	Summerland Way	Road reserve	Local	I403
	Kyogle	Kyogle Croquet Club	Summerland Way	Lot 752, DP 1104367	Local	I174
	Kyogle	Shops	37–39 Summerland Way	Lots 4 and 5, DP 260777	Local	1065
	Kyogle	Shops	41–47 Summerland Way	Lots 6–9, DP 260777	Local	1066
	Kyogle	Samios Building	55–57 Summerland Way	Lot B, DP 332801	Local	1067
	Kyogle	Shops	59–61 Summerland Way	Lot 2, DP 721805	Local	1068
	Kyogle	Bank of Australasia (former)	62–66 Summerland Way	Lot 11, DP 1064731	Local	1084
	Kyogle	Exchange Hotel	63–65 Summerland Way	Lot 2, DP 327761	Local	1069
	Kyogle	Commonwealth Bank (former)	68 Summerland Way	Lot 10, DP 871210	Local	1085
	Kyogle	Shirley's Store (former)	69–71 Summerland Way	Lot 1, DP 783834	Local	1070
	Kyogle	Shops	72–76 Summerland Way	Lot B, DP 180227	Local	1086
	Kyogle	Shops	79 Summerland Way	Lot 22, DP 805397	Local	I071
	Kyogle	Fairymount Cafe (former)	81–85 Summerland Way	Lot 12, DP 783829	Local	1072
	Kyogle	Campbell's Building	82–88 Summerland Way	Lot 1, DP 301322; Lot 3, DP 783902	Local	1391
	Kyogle	Birkbeck's Menswear store	87 Summerland Way	Lot 12, DP 783829	Local	1073
	Kyogle	Shops	87 Summerland Way	Lots A and B, DP 389317	Local	1074

06/04/2022, 11:13	K	yogle Local Environmental	Plan 2012 (2013 EPI 25)	- NSW Legislati	ion
Kyogle	Shops	93–95 Summerland Way	Lot 1, DP 108238	Local	1075
Kyogle	Rural Bank (former)	94–100 Summerland Way	Lot 61, DP 783909	Local	1087
Kyogle	Commercial Hotel	97–101 Summerland Way	Lot 1, DP 108238	Local	1076
Kyogle	National Bank	102 Summerland Way	Lot 1, DP 191996	Local	1088
Kyogle	Shops	103–105 Summerland Way	Lot 1, DP 108444	Local	1398
Kyogle	Boden's Building (former)	107 Summerland Way	Lot B, DP 303016	Local	1077
Kyogle	Chemist shop	109 Summerland Way	Lot A, DP 302393	Local	1078
Kyogle	Commonwealth Bank	114–116 Summerland Way	Lot B, DP 303638	Local	1089
Kyogle	Junor's Store (former)	115 Summerland Way	Lot 1, DP 347576	Local	1079
Kyogle	Shops	118–120 Summerland Way	Lot 1, DP 657255	Local	1090
Kyogle	Shops	121–125 Summerland Way	Lot 1, DP 393777; Lots A and B, DP 394481	Local	1080
Kyogle	Kyogle Memorial Institute building and projectors	133 Summerland Way	Lot 19, DP 783828	Local	I081
Kyogle	Bank of NSW (former)	136 Summerland Way	Lot 2, DP 508115	Local	1092
Kyogle	Queensland National Bank (former)	138–140 Summerland Way	Lot A, DP 403007	Local	1093
Kyogle	Doctor's surgery (former)	144 Summerland Way	Lot 2, DP 735743	Local	1095
Kyogle	Post office	149 Summerland Way	Lot 1, DP 776479	Local	1082
Kyogle	Kyogle Citizens Band Hall	176 Summerland Way	Lot 1, DP 532420	Local	1054
Kyogle	Kyogle Private Hospital (former)	181 Summerland Way	Lot 33, DP 781774	Local	1056
Kyogle	Residence	187 Summerland Way	Lot 5, DP 954697	Local	1366
Kyogle	Residence	226 Summerland Way	Lot 1, DP 612336	Local	1060
Kyogle	Greenwood building and landscape	433 Summerland Way	Lot 11, DP 1035629	Local	I190
Kyogle	Kyogle Historical Museum	10 Wiangaree Street	Lot 1, DP 781677	Local	1062
Kyogle	Residence	1 Yongurra Road	Lot 2, DP 10780	Local	1047
Lillian Rock	Memorial gate	Caldera Lane	Road reserve	Local	I161
Mallanganee	Carey Johnson memorial trees	Bonalbo Street	Road reserve	Local	I178
Mallanganee	Memorial Hall	5–7 Bonalbo Street	Lot 52, DP 752395	Local	I101
Mallanganee	Hewetson home (former)	7095 Bruxner Highway	Lot 2, DP 17479	Local	1099
Mallanganee	Hewetson home (former)	7103 Bruxner Highway	Lot 13, DP 838859	Local	1098
Mallanganee	Hewetson home (former)	7105 Bruxner Highway	Lot 4, DP 17479	Local	I100
Mallanganee	Pie shop	4 Pine Street	Lot A, DP 399099	Local	I102

4/2022, 11:13	n	yogie Local Environmenta	i Plan 2012 (2013 EPI 25)	- NSVV Legisla	tion
Mallanganee	Service station complex	18–22 Sandilands Street	Lot 1, DP 204959; Lot 21, DP 711890; Lot 4, Section 1, DP 758639	Local	1106
Mallanganee	Cafe (former)	44 Sandilands Street	Lot A, DP 392198	Local	I107
Mallanganee	Memorial Park gateway	53 Sandilands Street	Lot A, DP 367971	Local	I105
Mallanganee	General store and post office	60-62 Sandilands Street	Lot 1, Section 4, DP 123614; Lot 111, DP 47440	Local	1109
Mallanganee	Butcher's shop (former)	63 Sandilands Street	Lot 3, DP 6547	Local	I381
Mallanganee	Bank (former)	64 Sandilands Street	Lot 10, DP 304994	Local	I108
Mallanganee	Barber shop (former)	72 Sandilands Street	Lot 12, DP 312249	Local	I104
Mallanganee	Residence	79 Sandilands Street	Lot 2, Section 1, DP 17532	Local	1103
Mallanganee	Mallanganee School and school residence	38–52 Tooloom Street	Lot 70, DP 752395	Local	I111
Mallanganee	Our Lady of Perpetual Succour Catholic Church	57 Tooloom Street	Lot 2, Section 3, DP 758639	Local	I114
Mallanganee	Convent (former)	59 Tooloom Street	Lot 3, Section 3, DP 758639	Local	I113
Mallanganee	Catholic School (former)	62 Tooloom Street	Lot 100, DP 752395	Local	I112
Mallanganee	Residence	2 Yabbra Street	Lot 6, Section 2, DP 758639	Local	I115
Mallanganee South	Finger Board building	Old Lawrence Road		Local	1378
Mallanganee South	Survey tree	969 Old Lawrence Road		Local	1380
Mummulgum	Catholic Church (former)	8 Bingebeebra Road	Lot 97, DP 755723	Local	I117
Mummulgum	St Mary's Anglican Church	5825 Bruxner Highway	Lot 101, DP 755723	Local	I116
New Park	Alcorn Park	Summerland Way	Lot 755, DP 1104367	Local	I173
New Park	Alcorn Park band rotunda	Summerland Way	Lot 755, DP 1104367	Local	I023
New Park	Showground and grandstand	43 Summerland Way	Lot 118, DP 44795	Local	1057
Old Bonalbo	Pioneer Park	Clarence Way	Road reserve	Local	I405
Old Bonalbo	Store (former)	15242 Clarence Way	Lot A, DP 365820	Local	I015
Old Bonalbo	Post office and general store	Duck Creek Road	Lot 2, DP 167973	Local	1019
Old Bonalbo	Old Bonalbo Community Hall	8 Duck Creek Road	Lot 3, DP 166762	Local	I014
Old Bonalbo	Residence	13 Duck Creek Road	Lot 1, DP 17551	Local	I016
Old Bonalbo	Bean Creek Falls	Falls Road	Lot 7012, DP 1108188; Lots 2 and 3, DP 543736	Local	1399
Old Bonalbo	MJI Motor Cycle Garage	2 Prince Street	Lot 1, DP 613972	Local	I017
Old Bonalbo	Old Bonalbo Cemetery	Remembrance Drive	Lot 7014, DP 96676	Local	1375
Old Grevillia	Moore Park nature reserve	Findon Creek Road	Lot 1, DP 180655	Local	1193

06/04/2022, 1	1:13	K	yogle Local Environmental	Plan 2012 (2013 EPI 25) -	NSW Legislati	ion
Richm	iond Gap	Border tick gate	Lions Road	Road reserve	Local	I166
Sandil	ands	Mallanganee Rodeo Ground	Bruxner Highway	Lot 7002, DP 96390	Local	I182
Sandil	ands	Sculpture garden	Bruxner Highway	Reserve no 21418	Local	I184
Sandil	ands	Sandilands Station complex	7689 Bruxner Highway	Lot 1, DP 123612	Local	I183
Tabula	am	Chauvel Park (formerly Tabulam Station)	Clarence Street	Lot 5, DP 833655	Local	1186
Tabula	am	St John's Church	26 Clarence Street	Lot 5, Section 1, DP 11813	Local	1382
Tabula	am	Hotel	34–42 Clarence Street	Lot 1, Section 1, DP 11813	Local	1383
Tabula	am	Post office	12–14 Court Street	Lot 214, DP 39896	Local	I118
Tabula	am	Police station	1–3 Creek Street	Lot 7002, DP 1068673	Local	1373
Tabula	am	Tabulam Racecourse	Racecourse Road	Lot 34, DP 752397	Local	I187
Tabula	am	Tabulam Cemetery	219 Racecourse Road	Lot 7017, DP 1066120	Local	1376
The R	isk	Bottlebrush	Gradys Creek Road	Road reserve	Local	I192
The R	isk	The Risk Hall	75 Gradys Creek Road	Lot 1, DP 322341	Local	1362
The R	isk	School and teacher's residence	122 Gradys Creek Road	Lot 84, DP 755719	Local	1363
The R	isk	Water facilities	Risk Road	Lot 2, DP 859278	Local	I409
Unum	gar	Dairy Flat landscape	Summerland Way	Lot 7013, DP 105600; Lot 7004, DP 1057677; Lot 7300, DP 1129206; Lot 46, DP 755750	Local	I196
Unum	gar	Unumgar Homestead landscape	4135 Summerland Way	Part of Lot 1, DP 531985	Local	1194
Urben	ville	Showground and memorial gates	Clarence Way	Lot 24, DP 751069	Local	1200
Wadev	ville	Daystar Steiner School (former)	4501–4504 Kyogle Road	Lot 23, DP 792111	Local	1152
Wadev	ville	Hanging Rock Hall	77 Williams Road	Lot 188, DP 728691	Local	I404
Wiang	aree	Wiangaree Community Hall	1393 Summerland Way	Lot 8, Section 7, DP 759088	Local	1150
Wiang	aree	St John's Anglican Church	Worendo Street	Lot 1, Section 10, DP 759088	Local	1151
Wiang	aree	General store	60 Worendo Street	Lot 9, Section 8, DP 759088	Local	I149
Woode	enbong	Residence	8 Dalmorton Street	Lot A, DP 390596	Local	I387
Woode	enbong	Post office (former)	14 Dalmorton Street	Lot 2, DP 629397	Local	I121
Woode	enbong	Hardware and electrical store	17 Dalmorton Street	Lot 11, DP 748304	Local	I134
Woodd	enbong	Woodenbong Cemetery	95 Hill View Street	Lot 7004, DP 1055062	Local	I199
Woodd	enbong	Showground	1 Lindsay Creek Road	Lot 7005, DP 1055056	Local	I197

https://legislation.nsw.gov.au/view/html/inforce/current/epi-2013-0025#sch.5

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Woodenbong	St Margaret's Anglican Church	20 Lindsay Street	Lot 91, DP 733874	Local	I119
Woodenbong	Residence	27 Lindsay Street	Lot 3, Section 4, DP 759111	Local	1385
Woodenbong	Masonic Lodge (former)	41 Lindsay street	Lot 4, Section 5, DP 759111	Local	I384
Woodenbong	Woodenbong School memorial gates and classroom	42 Lindsay Street	Lots 1 and 2, Section 2, DP 759111	Local	I146
Woodenbong	War Memorial Hall	49 Lindsay Street	Lot 15, Section 5, DP 759111	Local	I120
Woodenbong	Sacred Heart Catholic Church	11–13 MacPherson Street	Lot 9, Section 9, DP 759111	Local	1135
Woodenbong	Sketchley's Store	21 MacPherson Street	Lot 5, Section 9, DP 759111	Local	1137
Woodenbong	Store (former)	24 MacPherson Street	Lot 9, Section 4, DP 759111	Local	I129
Woodenbong	Bakery (former)	25 MacPherson Street	Lot 3, Section 9, DP 759111	Local	I122
Woodenbong	Residence	26 MacPherson Street	Lot 10, Section 4, DP 759111	Local	I133
Woodenbong	BJs Grocery Store	27 MacPherson Street	Lot 10, DP 748304	Local	I123
Woodenbong	Residence	30 MacPherson Street	Lot 12, Section 4, DP 759111	Local	1132
Woodenbong	National Australia Bank building	34 MacPherson Street	Lot 14, Section 4, DP 759111	Local	I131
Woodenbong	CWA Rooms	36 MacPherson Street	Lot 15, DP 662572	Local	1125
Woodenbong	M & L Quality Meats Store	37 MacPherson Street	Lot 4, Section 8, DP 759111	Local	I124
Woodenbong	Chemist shop	39 MacPherson Street	Lot 3, Section 8, DP 759111	Local	1128
Woodenbong	Offices (former)	42 MacPherson Street	Lot 7, Section 5, DP 759111	Local	1126
Woodenbong	Woodenbong Hotel	43 MacPherson Street	Lot 1, Section 8, DP 759111	Local	I145
Woodenbong	Residence	46 MacPherson Street	Lot 9, Section 5, DP 759111	Local	I140
Woodenbong	Residence	34 Richmond Street	Lot 15, Section 8, DP 759111	Local	1139
Woodenbong	Residence	46 Roseberry Street	Lot 109, DP 751059	Local	I142
Woodenbong	Recreation ground	Unumgar Street	Lot 7008, DP 1075469	Local	I198
Woodenbong	Police Station	1–5 Unumgar Street	Lot 7001, DP 92987	Local	I147
Woodenbong	Woodenbong Public Hall	21–23 Unumgar Street	Lot 14, Section 5, DP 759111	Local	I148
Woodenbong	Carole's Arts and Craft shop	30 Unumgar Street	Lot 3, Section 6, DP 75911	Local	I144

Woodenbong	Service station (former)	34 Unumgar Street	Lot 51, DP 819346	Local	I143

### Part 2 Heritage conservation areas

Name of area	Identification on <u>Heritage Map</u>	Significance
Grevillia Village Conservation Area	Shown by red hatching and marked "C168"	Local
Hewetson Residential Group	Lots 2 and 4, DP 17479; Lot 13, DP 838859; Shown by red hatching and marked "C180"	Local
Kyogle Town Gateway Conservation Area	Shown by red hatching and marked "C406"	Local
Kyogle Town Heritage Conservation Area	Shown by red hatching and marked "C396"	Local
Mallanganee Village Conservation Area	Shown by red hatching and marked "C097"	Local

## Part 3 Archaeological sites

Suburb	Item name	Address	Property description	Significance	tem no
Dyraaba	Dyraaba Station Cemetery	755 Dyraaba Road	Lot 2, DP 755704	Local	A392
Green Pigeon	Sawmilling complex (former)	1047–1055 and adjoining reserves, Green Pigeon Road	Lots 141, 143 and 144, DP 257506; Lot 5, DP 625056		A155
Kilgra	Wiangaree Bundock Family Cemetery	Apple Tree Stud, Summerland Way	Lot 2, DP 943796	Local	A189
Old Bonalbo	Jane Robertson's grave	15249–15297 Clarence Way	Lot 7, DP 751077	Local	A201
Sandilands	Sandilands Cemeteries	7689 Bruxner Highway	Lot 1, DP 123612	Local	A367
Tabulam	Tabulam Old Cemetery	Charles Street	Lot 7003, DP 1068672	Local	A377
Tooloom	Tooloom Goldfields	See <u>Heritage Map</u>	Lots 1, 2, 25, 26 and 37, DP 751080; Lots 7001– 7004, DP 1068822; Lots 6, 10, 14–19, 20 and 22, DP 751075; Lot 2, DP 859360; Lot 120, DP 875319; Lot 2, DP 123063; Lot 11, DP 867400; Lot 24, DP 44725; Lots 7300 and 7301, DP 1149153; and 2 unidentified (LPMA)	Local	A164
Tooloom	Queen's Arms Hotel site	Paddys Flat Road	Lot 2, DP 751080	Local	A361
Tooloom	Tooloom village site	Off Paddys Flat Road	Lots 1, 2, 25 and 26, DP 751080; Lots 7002–7004, DP 1068822; Lot 2, DP 859360	Local	A185
Unumgar	Unumgar Hill Family Cemetery	4135 Summerland Way	Part of Lot 1, DP 531985	Local	A195



#### Search National Native Title Register

The National Native Title Register (NNTR) is a register established under s. 192 of the Native Title Act 1993 (Cth).

The NNTR contains determinations of native title made by:

- the High Court of Australia
- the Federal Court of Australia
- or a recognised body such as South Australia's Supreme Court and Environment Resources and Development Court.

Further information about the NNTR is available.

Tribunal file no.				
	Federal Court file no.			
		Short name		
Case name				
	State or Territory	New South Wales		
		Registered Native Title Body Corporate*		
Representative A/TSI body				
area	Local government area	Kyogle Council		
		Determination type		
ALL 🗸				
Legal process	ALL 🗸			
	Determination outcome	ALL 🗸		
		Determination date between		
and				
Sort by	Determination date	Search		
*Please note: current contact details for the Registered Native Title Body Corporate are available from the Office of the Registrar of Indigenous Corporations www.oric.gov.au				

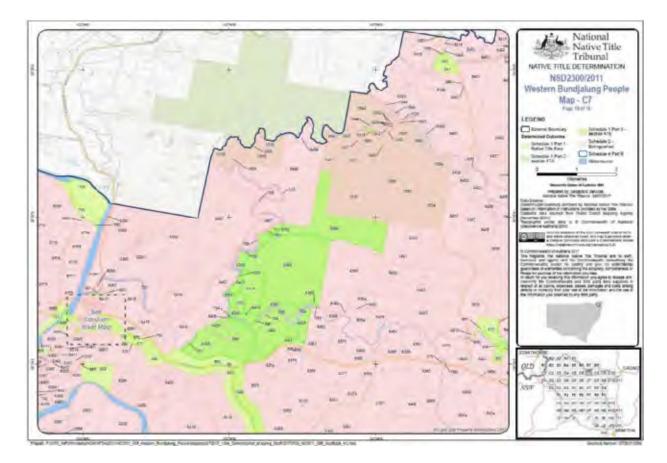
#### Your search returned 2 matches.

Short name	Case name	Legal process	Determination date	Outcome
	Western Bundjalung People v Attorney General of New South Wales	Consent		Native title exists in parts of the determination area
The Githabul People	Trevor Close on behalf of the Githabul People v Minister for Lands	Consent	129/11/2007	Native title exists in the entire determination area

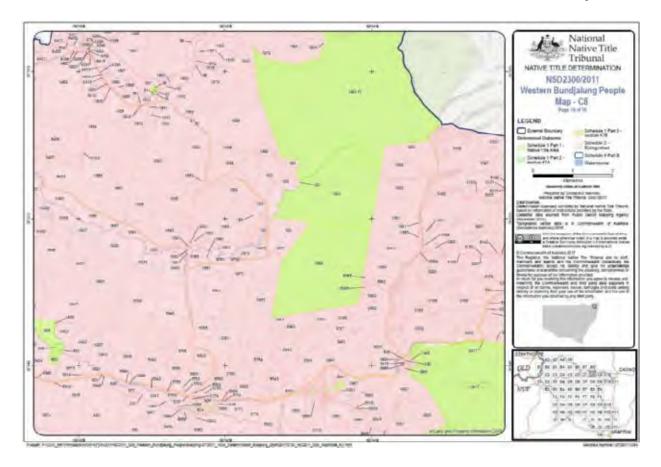
Accessibility Copyright and disclaimer Privacy Online Security



NNTR attachment: NCD2017/002 Annexure A - Maps of the Native Title Area - Part 1 of 2 Page 19 of 43, A4, 29/08/2017



NNTR attachment: NCD2017/002 Annexure A - Maps of the Native Title Area - Part 1 of 2 Page 21 of 43, A4, 29/08/2017





## **Register of Indigenous Land Use Agreements Details**

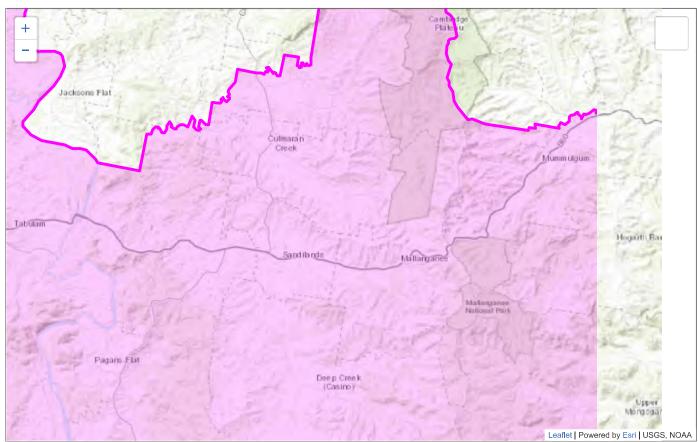
Back to search results

# NI2020/002 - Western Bundjalung Amended Settlement Indigenous Land Use Agreement

Tribunal file no.	NI2020/002
ILUA name	Western Bundjalung Amended Settlement Indigenous Land Use Agreement
ILUA type	Area Agreement
Representative A/TSI body area(s)	NTSCORP Limited
State or Territory	New South Wales
Primary subject matter	Native Title Settlement
Other subject matter(s)	Access, Consultation protocol
Date registered	04/05/2021

#### **Register extract**

Register extract ILUARegisterExport.pdf



View this map in NTV: NI2020/002

# Appendix E

Noise Assessment



RBL or LASO

cross a valle over water

#### Distanced Based Assessment (Noisiest Plant)

	Distanced Based Assessment (Noisiest Plant)		
	Steps for Assessment	Abbreviation	Measure
	<ol> <li>Schedule noisy works to occur in standard hours where possible or before 11pm and intelement Standard Measures.</li> </ol>	N	Notification
	2. Select the representative noise area category. The worksheet tilled 'Representative Noise Environ.' provides a number of examples to help select the noise area category.	SN	Specific notifications
	3. Select the noisiest plant. If not found in drop-down list, refer to 'Source List' and select a representative plant with equivalent sound power level.	PC	Phone calls
R2	<ol><li>Is there line of sight to receiver? Select the appropriate scenario from the drop down list.</li></ol>	18	Individual briefings
	Identify and implement standard mitigation measures where feasible and reasonable. Include any shielding implemented as part of the standard mitigation measures by changing the selection in the 'is	RO	Respite offer
45	there line of sightolaw to receiver' drop-down list. Solid barriers can be in the form of road cutting, timber lapped and capped fence, shipping container, site office, etc. Substantial solid barriers are	R1	Respite period 1
40	barriers greater than 5 metres in height, or multiple rows of houses or a sound barrier specifically designed to mitigate construction noise. Please note that vegetation and trees are not considered to be	82	Respite period 2
35	a form of solid barrier and any gaps would compromise the acoustic integrity of the solid barrier.	DR	Duration respite
55	5. Determine if there are any receivers (both residential and non-residential receivers) within the affected distance for each relevant time period. Consider background LABO noise measurements to check assumed in 35to at 21 ft.	AA	Alternative accommodation
50	(a) there are many affected receivers and the impact duration at any one receiver is more than 3 weeks; or	v	Verification
45	(b) there are a few affected receivers and the impact duration at any one receiver is more than 6 weeks.		verification of noise levels and individual briefings
40	Note that consideration need to be given to the construction staging plan when determining impact duration.	are not required for	projects with less then 3 weeks impact duration
Chainsaw	7. Identify if there are any receivers within the additional mitigation measures distances and identify feasible and reasonable measures at each receiver.		
Yes	<ol> <li>Where night works are involved, identify sleep disturbance affected distance.</li> </ol>		
	9. Document the outcomes of these steps.		
	Note that suitable noise management levels for other noise-sensitive businesses not identified in the Construction Noise Estimator should be investigated on a project-by-project basis. Please contact a Roads and Murrilme noise specialist for more information)		

Residential receiver inuto) noise level above background (LAR) 20 to 30 dB(A) Moderately intrusive Sleep disutrbance Lonax 65 dB(A) 5 to 10 dB(A) Noticeable 10 to 20 dB(A) Clearly audible > 30 dB(A) Highly intrusive LAeq(15minute)75 dB(A) or greater (Highly affected) Affected distance (m) 
 WEhin distance
 Mitigation level (dB(A))
 Measures
 Within distance (m)
 Mitigation level (dB(A))
 Measures V N, R1, DR N, R1, DR N, R1, DR N, R2, DR 
 Within distance
 Migation level (dB/A)
 Measures

 75
 65
 N, PC, RO

 75
 65
 N, R1, DR, PC, SN

 120
 60
 N, R1, DR, PC, SN

 175
 55
 AA, N, PC, SN, R2, DR
 Within distance (m) Mitigation level (dB(A)) Within distance Mitigation level (m) (dB(A)) Measures 25 75 25 75 N, PC, RO 25 75 25 75 26 75 N, R1, DR N, R1, DR N, R2, DR 175 250 365 N 525 
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120

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					Lteg(15min		LAeq(15minute) 75 dB(A) or greater (Highly affected)					
	Standard h	ours		<10 dB(A)		10 to	20 dB(A)					
Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	
Dav	55	175				N	75	65	N, PC, RO	25	75	
Dav									75			
Day	55	175		N	75 65		N, PC, RO	25	75			
Day	65	75							N, PC, RD	25	75	
Day	60	120			1	N	45	70	N, PC, RD	25	75	
Day	75	25							N, PC, RD	25	75	
Day	70	45						[	N, PC, RO	25	75	
	Period Dav Dav Day Day Day Dav	Period         NML           Dav         55           Dav         65           Day         65           Day         65           Day         65           Day         60           Day         75	Pariod         NNL         distance (m)           Dav         55         175           Dav         65         75           Day         55         175           Day         65         75           Day         65         75           Day         60         120           Day         75         25	Period         NML         Affected distance (m)         Measure           Day         55         175         175           Day         55         175         175           Day         55         175         175           Day         65         75         120           Day         65         75         120           Day         60         120         125           Day         75         25         15	Period         NALL         Affected distance (nm)         Measure         Within distance (nm)           Dav         55         175         175           Davy         55         175           Day         57         5           Day         60         120           Day         60         120           Day         55         5	Puriod         NML         Affected Science in Science in Dov         Measure 55         Weath distance (m)         Measure (m)         Measure (m)           Dav         65         75           Day         55         175           Day         65         75           Day         60         120           Day         75         25	Partial         Matter         Material         Magnitish (mathematication)         Mathematication)         Mathematication) <th>Partial         Matter         Mature         Water status         Magation here         Massaure         Massaure</th> <th>Partial         Matter         Mater&lt;</th> <th>Bose         0.3         0.55         <th< th=""><th>3 48.44 (1)         16.8 (2)         10.8 (2)         <th colsp<="" th=""></th></th></th<></th>	Partial         Matter         Mature         Water status         Magation here         Massaure         Massaure	Partial         Matter         Mater<	Bose         0.3         0.55 <th< th=""><th>3 48.44 (1)         16.8 (2)         10.8 (2)         <th colsp<="" th=""></th></th></th<>	3 48.44 (1)         16.8 (2)         10.8 (2) <th colsp<="" th=""></th>	

										nute notice level above NML						
		OOHW			< 5 dB(A)			15 dB(A)		15	to 25 dB(A)		>	25 dB(A)		
	Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	
Hospital wards and operating theatres	Evening	65	75				N, R1, DR	45	70	N, R1, DR	14	80	N, R1, DR, PC, SN	4	90	
Holpen water and operating charter	Night	65	75	N	75	65	N, R2, NR	45	70	N, PC, SN, R2, DR	14	80	AA, N, PC, SN, R2, DR	4	90	
Place of worship	Evening	55	175				N, R1, DR	120	60	N, R1, DR	45	70	N, R1, DR, PC, SN	14	80	
	Night	55	175	N	175	55	N, R2, NR	120	60	N, PC, SN, R2, DR	45	70	AA, N, PC, SN, R2, DR	14	80	
Active recreation	Evening	65	75				N, R1, DR	45	70	N, R1, DR	14	80	N, R1, DR, PC, SN	4	90	
Passive recreation	Evening	60	120	1			N, R1, DR	75	65	N, R1, DR	25	75	N, R1, DR, PC, SN	8	85	
Industrial premise	Evening	75	25				N, R1, DR	14	80	N, R1, DR	4	90	N, R1, DR, PC, SN	1	100	
incoroni prenine	Night	75	25	N	N 25 75		N, R2, NR	14	80	N, PC, SN, R2, DR	4	90	AA, N, PC, SN, R2, DR	1	100	
Offices, retail outlets	Evening	70	45				N, R1, DR	25	75	N, R1, DR	8	85	N, R1, DR, PC, SN	3	95	
	Night	70	45	N	45	70	N, R2, NR	25	75	N, PC, SN, R2, DR	8	85	AA, N, PC, SN, R2, DR	3	95	

#### Non-residential receiver

Non-residential receiver													
Developed settlements (urban and suburban)						LAeq[15min	suse) noise level above NML			LAso(15minuto) 75 dB	(A) or greater (High	ab affected	
		Standard h	ours	<10 dB(A) 10				o 20 dB(A)		LAeq(15minute) 75 dB(A) or greater (Highly affected)			
	Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	(m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	
Classroom at schools and other educational institutions	Day	55	200				N	85	65	N, PC, RD	30	75	
Hospital wards and operating theatres	Dav	65	85							N, PC, RO	30	75	
Place of worship	Day	55	200				N	85	65	N, PC, RO	30	75	
Active recreation	Day	65	85							N, PC, RO	30	75	
Passive recreation	Day	60	135				N	50	70	N, PC, RD	30	75	
Industrial premise	Dav	75	30							N, PC, RO	30	75	
Offices, retail outlets	Day	70	50							N, PC, RO	30	75	

					Long(tionius) noise level above NML											
		OOHV	v		< 5 dB(A)		5 to	15 dB(A)		15	to 25 dB(A)		> 25 dB(A)			
	Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Within distance (m)		Mitigation level (dB(A))	
Hospital wards and operating theatres	Evening	65	85				N, R1, DR	50	70	N, R1, DR	17	80	N, R1, DR, PC, SN	5	90	
Hospital wards and operating cleaties	Night	65	85	N	85	65	N, R2, NR	50	70	N, PC, SN, R2, DR	17	80	AA, N, PC, SN, R2, DR	5	90	
Place of worship	Evening	55	200				N, R1, DR	135	60	N, R1, DR	50	70	N, R1, DR, PC, SN	17	80	
Place of worship	Night	55	200	N	200	55	N, R2, NR	135	60	N, PC, SN, R2, DR	50	70	AA, N, PC, SN, R2, DR	17	80	
Active recreation	Evening	65	85				N, R1, DR	50	70	N, R1, DR	17	80	N, R1, DR, PC, SN	5	90	
Passive recreation	Evening	60	135	1			N, R1, DR	85	65	N, R1, DR	30	75	N, R1, DR, PC, SN	9	85	
Industrial premise	Evening	75	30	1			N, R1, DR	17	80	N, R1, DR	5	90	N, R1, DR, PC, SN	2	100	
encouro las premise	Night	75	30	N	30	75	N, R2, NR	17	80	N, PC, SN, R2, DR	5	90	AA, N, PC, SN, R2, DR	2	100	
Offices, retail outlets	Evening	70	50				N, R1, DR	30	75	N, R1, DR	9	85	N, R1, DR, PC, SN	3	95	
Critical, recall Outlets	Night	70	50	N	50	70	N, R2, NR	30	75	N, PC, SN, R2, DR	9	85	AA, N, PC, SN, R2, DR	3	95	

					LAeq[15min	LAso(15minuto) 75 dB(A) or greater (Highly affected)						
	Standard h	nours		<10 dB(A)		10 1	o 20 dB(A)		could remain to op(o) or greater (mgmy anected)			
Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance (m)	Mitigation level (dB(A))	
Day	55	255				N	95	65		35	75	
Day	65	95	1						N, PC, RO	35	75	
Dav	55	255				N	95	65	N, PC, RO	35	75	
Dav			1								75	
Day	60	160	1			N	60	70	N, PC, RD	35	75	
Day	75	35	1						N, PC, RO	35	75	
Dav	70	60							N, PC, RD	35	75	
	Period Day Day Day Dav Day Day	Pariod         NML           Day         55           Day         65           Day         65           Day         65           Day         60           Day         75	Pariod         NML         distance (m)           Day         55         255           Day         65         95           Dav         65         95           Dav         65         96           Dav         65         96           Dav         65         96           Dav         65         95           Dav         65         36           Day         60         160           Day         75         35	Period         NML         Affected distance (m)         Measure           Day         55         255         255           Day         65         95         255           Dav         65         95         255           Day         60         160         255           Day         60         160         255           Day         60         156         255	Puriod         NML         Affected distances         Measure (m)         Within distances (m)           Day         55         255         255           Day         55         255         255           Day         65         65         65           Day         60         160         160           Day         75         15         160	Bunched         Total         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcon< th=""><th>Prior         Mat         Allocate (bases) in Directory         Massach (bases) in Directory         Massach (bases) in Directory         Massach (bases) in Directory         Massach (bases) in Directory           Directory         5         700         N         N           Directory         700         700         N         N</th><th>Bandards boar         10 (05,4)         10 (05 20,6),4)           Partid         Mit:         Matcase         Mithin diance         Mithin diance</th><th>Balander boars         C*0 (Bit)         The base (Bit)           Partid         Mile: discuss 1 (Bit)         Mile: discuss 1 (Bit)         Mile: discuss 1 (Bit)           Partid         Mile: discuss 1 (Bit)         Mile: discuss 1 (Bit)         Mile: discuss 1 (Bit)         Mile: discuss 1 (Bit)           Day         45         255         Mile: discuss 1 (Bit)         N         95         65           Day         45         55         55         Mile: discuss 1 (Bit)         N         95         65           Day         60         100         100         100         70         100           Day         60         100         100         100         100         100         100</th><th>Standard Svort         CPUR disk)           <th c<="" th=""><th>Bandood Nover         Matcale (detace-and)         Matcale (detace-and)         Matcale (detace-</th></th></th></thcon<></thcontrol<></thcontrol<>	Prior         Mat         Allocate (bases) in Directory         Massach (bases) in Directory         Massach (bases) in Directory         Massach (bases) in Directory         Massach (bases) in Directory           Directory         5         700         N         N           Directory         700         700         N         N	Bandards boar         10 (05,4)         10 (05 20,6),4)           Partid         Mit:         Matcase         Mithin diance         Mithin diance	Balander boars         C*0 (Bit)         The base (Bit)           Partid         Mile: discuss 1 (Bit)         Mile: discuss 1 (Bit)         Mile: discuss 1 (Bit)           Partid         Mile: discuss 1 (Bit)         Mile: discuss 1 (Bit)         Mile: discuss 1 (Bit)         Mile: discuss 1 (Bit)           Day         45         255         Mile: discuss 1 (Bit)         N         95         65           Day         45         55         55         Mile: discuss 1 (Bit)         N         95         65           Day         60         100         100         100         70         100           Day         60         100         100         100         100         100         100	Standard Svort         CPUR disk)         CPUR disk) <th c<="" th=""><th>Bandood Nover         Matcale (detace-and)         Matcale (detace-and)         Matcale (detace-</th></th>	<th>Bandood Nover         Matcale (detace-and)         Matcale (detace-and)         Matcale (detace-</th>	Bandood Nover         Matcale (detace-and)         Matcale (detace-and)         Matcale (detace-

									LAng(15min	inute) noise level above NML						
		OOH	v		< 5 dB(A)		5 to	15 dB(A)		15	to 25 dB(A)		>	> 25 dB(A)		
	Period	NML	Affected distance (m)	Measure	Within distance (m)	Mitigation level (dB(A))	Measure	Within distance	Mitigation level (dB(A))	Measure	(m)	Mitigation level (dB(A))	Measure	Within distance (m)	(dB(A))	
Hospital wards and operating theatres	Evening	65	95				N, R1, DR	60	70	N, R1, DR	20	80	N, R1, DR, PC, SN	5	90	
norphan wards and operating creaties	Night	65	95	N	95	65	N, R2, NR	60	70	N, PC, SN, R2, DR	20	80	AA, N, PC, SN, R2, DR	5	90	
Place of worship	Evening	55	255				N, R1, DR	160	60	N, R1, DR	60	70	N, R1, DR, PC, SN	20	80	
Nig	Night	55	255	N	255	55	N, R2, NR	160	60	N, PC, SN, R2, DR	60	70	AA, N, PC, SN, R2, DR	20	80	
Active recreation	Evening	65	95				N, R1, DR	60	70	N, R1, DR	20	80	N, R1, DR, PC, SN	5	90	
Passive recreation	Evening	60	160	1			N, R1, DR	95	65	N, R1, DR	35	75	N, R1, DR, PC, SN	15	85	
Industrial premise	Evening	75	35				N, R1, DR	20	80	N, R1, DR	5	90	N, R1, DR, PC, SN	2	100	
industrial premise		75	35	N	35	75	N, R2, NR	20	80	N, PC, SN, R2, DR	5	90	AA, N, PC, SN, R2, DR	2	100	
Offices, retail outlets	Evening	70	60				N, R1, DR	35	75	N, R1, DR	15	85	N, R1, DR, PC, SN	3	95	
Offices, retail outlets		70	60	N	60	20	N R2 NR	35	75	N PC SN R2 DR	15	85	AA N PC SN R2 DR	3	95	



## Appendix F

Bionet Atlas and Protected Matters Search Results

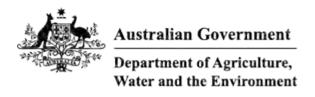
Data from the BioNet Atlas website, which holds records from a number of custodians. The data are only indicative and considered a comprehensive inventory, and may contain errors and omissions. Species listed under the Sensitive Specie: have their locations denatured (^ rounded to 0.1°C; ^^ rounded to 0.01°C. Copyright the State of NSW through the Depa Industry and Environment. Search criteria : Public Report of all Valid Records of Threatened (listed on BC Act 2016) or Cc Entities in selected area [North: -28.85 West: 152.59 East: 152.69 South: -28.95] returned a total of 119 records of 20 sp Report generated on 6/04/2022 12:10 PM

Kingdom	Class	Family	Species Code	Scientific Name	Exotic	Common Name	NSW status
Animalia	Aves	Cacatuidae	0265	^Calyptorhynchus lathami		Glossy Black-Cockatoo	V,P,2
Animalia	Aves	Psittacidae	0260	Glossopsitta pusilla		Little Lorikeet	V,P
Animalia	Aves	Strigidae	0248	^^Ninox strenua		Powerful Owl	V,P,3
Animalia	Aves	Tytonidae	0250	^^Tyto novaehollandiae		Masked Owl	V,P,3
Animalia	Aves	Tytonidae	9924	^^Tyto tenebricosa		Sooty Owl	V,P,3
Animalia	Aves	Climacteridae	8127	Climacteris picumnus victoriae		Brown Treecreeper (eastern subspecies)	V,P
Animalia	Aves	Artamidae	8519	Artamus cyanopterus cyanopterus		Dusky Woodswallow	V,P
Animalia	Mammalia	Dasyuridae	1008	Dasyurus maculatus		Spotted-tailed Quoll	V,P
Animalia	Mammalia	Phascolarctid ae	1162	Phascolarctos cinereus		Koala	V,P
Animalia	Mammalia	Petauridae	1137	Petaurus norfolcensis		Squirrel Glider	V,P
Animalia	Mammalia	Pseudocheiri dae	1133	Petauroides volans		Greater Glider	Ρ
Animalia	Mammalia	Potoroidae	1187	Aepyprymnus rufescens		Rufous Bettong	V,P
Animalia	Mammalia	Pteropodidae	1280	Pteropus poliocephalus		Grey-headed Flying-fox	V,P
Animalia	Mammalia	Vespertilioni dae	1354	Chalinolobus nigrogriseus		Hoary Wattled Bat	V,P
Animalia	Mammalia	Vespertilioni dae	1361	Scoteanax rueppellii		Greater Broad-nosed Bat	V,P
Plantae	Flora	Cupressaceae	2277	Callitris baileyi		Bailey's Cypress Pine	E1
Plantae	Flora	Fabaceae (Faboideae)	3030	Sophora fraseri		Brush Sophora	V
Plantae	Flora	Myrtaceae	4096	Eucalyptus glaucina		Slaty Red Gum	V
Plantae	Flora	Myrtaceae	4283	Rhodamnia rubescens		Scrub Turpentine	E4A

Plantae	Flora	Myrtaceae	4284	Rhodomyrtus	Native Guava	E4A
				psidioides		

are only indicative and cannot be considered a comprehensive inventory, and may contain errors and omissions. Species listed under the Sensitive Species Data Policy may have their locations denatured (^ rounded to 0.1°C; ^^ rounded to 0.01°C. Copyright the State of NSW through the Department of Planning, Industry and Environment. Search criteria : Public Report of all Valid Records of Threatened (listed on BC Act 2016) or Commonwealth listed Communities in selected area [North: -28.85 West: 152.59 East: 152.69 South: -28.95] returned 0 records for 7 entities. Report generated on 6/04/2022 12:13 PM

Kingdom	Scientific Name	Exotic	Common Name	NSW status	Comm status	Record s	
Communi ty	Grey Box—Grey Gum Wet Sclerophyll Forest in the NSW North Coast Bioregion		Grey Box—Grey Gum Wet Sclerophyll Forest in the NSW North Coast Bioregion	E3		К	1
Communi ty	Lowland Rainforest in the NSW North Coast and Sydney Basin Bioregions		Lowland Rainforest in the NSW North Coast and Sydney Basin Bioregions	E3		К	i
Communi ty	Lowland Rainforest of Subtropical Australia		Lowland Rainforest of Subtropical Australia		CE	К	i
Communi ty	Lowland Rainforest on Floodplain in the New South Wales North Coast Bioregion		Lowland Rainforest on Floodplain in the New South Wales North Coast Bioregion	E3		К	i
Communi ty	Montane Peatlands and Swamps of the New England Tableland, NSW North Coast, Sydney Basin, South East Corner, South Eastern Highlands and Australian Alps bioregions		Montane Peatlands and Swamps of the New England Tableland, NSW North Coast, Sydney Basin, South East Corner, South Eastern Highlands and Australian Alps bioregions	E3		Ρ	1
Communi ty	Subtropical Coastal Floodplain Forest of the New South Wales North Coast Bioregion		Subtropical Coastal Floodplain Forest of the New South Wales North Coast Bioregion	E3		К	i
Communi ty	White Gum Moist Forest in the NSW North Coast Bioregion		White Gum Moist Forest in the NSW North Coast Bioregion	E3		К	i



# **EPBC Act Protected Matters Report**

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 06-Apr-2022

Summary Details Matters of NES Other Matters Protected by the EPBC Act Extra Information Caveat Acknowledgements

## Summary

## Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	2
Listed Threatened Species:	36
Listed Migratory Species:	14

### Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at http://www.environment.gov.au/heritage

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Lands:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	19
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have

State and Territory Reserves:	None
Regional Forest Agreements:	1
Nationally Important Wetlands:	None
EPBC Act Referrals:	2
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	1
Geological and Bioregional Assessments:	None

## Details

## Matters of National Environmental Significance

### Listed Threatened Ecological Communities

[Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	Endangered	Community likely to occur within area
Lowland Rainforest of Subtropical Australia	Critically Endangered	Community may occur within area

Listed Threatened Species		[Resource Information]
Status of Conservation Dependent and E Number is the current name ID.	Extinct are not MNES unde	er the EPBC Act.
Scientific Name	Threatened Category	Presence Text
BIRD		
Anthochaera phrygia		
Regent Honeyeater [82338]	Critically Endangered	Species or species habitat likely to occur within area
Botaurus poiciloptilus		
Australasian Bittern [1001]	Endangered	Species or species habitat may occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Cyclopsitta diophthalma coxeni		
Coxen's Fig-Parrot [59714]	Endangered	Species or species habitat may occur within area



Vulnerable

Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
<u>Falco hypoleucos</u> Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat may occur within area
<u>Numenius madagascariensis</u> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Turnix melanogaster Black-breasted Button-quail [923]	Vulnerable	Species or species habitat may occur within area
FROG		
<u>Mixophyes fleayi</u> Fleay's Frog [25960]	Endangered	Species or species habitat may occur within area
<u>Mixophyes iteratus</u> Giant Barred Frog, Southern Barred Frog [1944]	Vulnerable	Species or species habitat likely to occur within area

Philoria kundagungan Mountain Frog [1935]

Endangered

Species or species habitat may occur within area

### MAMMAL

Chalinolobus dwyeri

# Large-eared Pied Bat, Large Pied Bat Vulnerable [183]

Species or species habitat likely to occur within area

Scientific Name	Threatened Category	Presence Text
Dasyurus maculatus maculatus (SE main	<u>nland population)</u>	
Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat known to occur within area
Petauroides volans		
Greater Glider [254]	Vulnerable	Species or species habitat likely to occur within area
Petaurus australis australis		
Yellow-bellied Glider (south-eastern) [87600]	Vulnerable	Species or species habitat likely to occur within area
Petrogale penicillata		
Brush-tailed Rock-wallaby [225]	Vulnerable	Species or species habitat likely to occur within area
Phascolarctos cinereus (combined popu	lations of Qld, NSW and th	<u>ne ACT)</u>
Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat known to occur within area
Deteroue trideetulue trideetulue		
Potorous tridactylus tridactylus Long-nosed Potoroo (northern) [66645]	Vulnerable	Species or species habitat may occur within area
<u>Pseudomys novaehollandiae</u>		
New Holland Mouse, Pookila [96]	Vulnerable	Species or species habitat likely to occur within area
Pteropus poliocephalus		
Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
PLANT		
Arthraxon hispidus		
Hairy-ioint Grass [9338]	Vulnerable	Species or species

Hairy-joint Grass [9338]

Vulnerable

Species or species habitat likely to occur within area

Dichanthium setosum bluegrass [14159]

Vulnerable

Species or species habitat likely to occur within area

Eucalyptus glaucina Slaty Red Gum [5670]

Vulnerable

Species or species habitat known to occur within area

Scientific Name	Threatened Category	Presence Text
Macadamia integrifolia Macadamia Nut, Queensland Nut Tree, Smooth-shelled Macadamia, Bush Nut, Nut Oak [7326]	Vulnerable	Species or species habitat may occur within area
Paspalidium grandispiculatum a grass [10838]	Vulnerable	Species or species habitat may occur within area
Persicaria elatior Knotweed, Tall Knotweed [5831]	Vulnerable	Species or species habitat may occur within area
<u>Rhodamnia rubescens</u> Scrub Turpentine, Brown Malletwood [15763]	Critically Endangered	Species or species habitat likely to occur within area
<u>Rhodomyrtus psidioides</u> Native Guava [19162]	Critically Endangered	Species or species habitat may occur within area
<u>Thesium australe</u> Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat may occur within area
<u>Triplarina imbricata</u> [64543]	Endangered	Species or species habitat may occur within area
Vincetoxicum woollsii listed as Tylophora [40080]	<u>woollsii</u> Endangered	Species or species habitat may occur within area
REPTILE		
Delma torquata Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area

Listed Migratory Species		[Resource Information]
Scientific Name	Threatened Category	Presence Text
Migratory Marine Birds		
Apus pacificus		
Fork-tailed Swift [678]		Species or species
		habitat likely to occur
		within area

Migratory Terrestrial Species

Scientific Name	Threatened Category	Presence Text
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat may occur within area
<u>Motacilla flava</u> Yellow Wagtail [644]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
<u>Rhipidura rufifrons</u> Rufous Fantail [592]		Species or species habitat likely to occur within area
Symposiachrus trivirgatus as Monarcha Spectacled Monarch [83946]	<u>trivirgatus</u>	Species or species habitat may occur within area
Migratory Wetlands Species		

Actitis hypoleucos Common Sandpiper [59309]

Calidris acuminata Sharp-tailed Sandpiper [874] habitat may occur within area

Species or species

Species or species habitat may occur within area

Calidris ferruginea Curlew Sandpiper [856]

Critically Endangered Species or species habitat may occur within area

Calidris melanotos Pectoral Sandpiper [858]

Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
<u>Gallinago hardwickii</u> Latham's Snipe, Japanese Snipe [863]		Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area

## Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
Scientific Name	Threatened Category	Presence Text
Bird		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat may occur within area
Anseranas semipalmata		
Magpie Goose [978]		Species or species habitat may occur within area overfly marine area
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area
Bubulcus ibis as Ardea ibis		
Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area



Critically Endangered

Species or species habitat may occur within area overfly marine area

Scientific Name	Threatened Category	Presence Text
<u>Calidris melanotos</u> Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat likely to occur within area overfly marine area
<u>Haliaeetus leucogaster</u> White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area overfly marine area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat may occur within area overfly marine area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat may occur within area overfly marine area
<u>Motacilla flava</u> Yellow Wagtail [644]		Species or species habitat may occur within area overfly

marine area

Myiagra cyanoleuca Satin Flycatcher [612]

Species or species habitat known to occur within area overfly marine area

Numenius madagascariensis

Eastern Curlew, Far Eastern Curlew [847]

Critically Endangered Specie habitat

Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Rhipidura rufifrons		
Rufous Fantail [592]		Species or species habitat likely to occur within area overfly marine area
Rostratula australis as Rostratula be	enghalensis (sensu lato)	
Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area
Symposiachrus trivirgatus as Monar	<u>cha trivirgatus</u>	
Spectacled Monarch [83946]	-	Species or species habitat may occur within area overfly marine area

## Extra Information

Regional Forest Agreements	[Resource Information]
Note that all areas with completed RFAs have been included.	
RFA Name	State
North East NSW RFA	New South Wales

EPBC Act Referrals			[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status
Controlled action			
<u>330 kV Transmission Line, 205km in</u> Length	2010/5326	Controlled Action	Completed
Not controlled action			
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed
Bioregional Assessments			
SubRegion	BioRegion	Websit	e
Clarence-Moreton	Clarence-Mo	reton <u>BA wet</u>	<u>osite</u>

## Caveat

### 1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

### 2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

### 3 DATA SOURCES

#### Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

### Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions

### 4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

## Acknowledgements

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-Office of Environment and Heritage, New South Wales -Department of Environment and Primary Industries, Victoria -Department of Primary Industries, Parks, Water and Environment, Tasmania -Department of Environment, Water and Natural Resources, South Australia -Department of Land and Resource Management, Northern Territory -Department of Environmental and Heritage Protection, Queensland -Department of Parks and Wildlife, Western Australia -Environment and Planning Directorate, ACT -Birdlife Australia -Australian Bird and Bat Banding Scheme -Australian National Wildlife Collection -Natural history museums of Australia -Museum Victoria -Australian Museum -South Australian Museum -Queensland Museum -Online Zoological Collections of Australian Museums -Queensland Herbarium -National Herbarium of NSW -Royal Botanic Gardens and National Herbarium of Victoria -Tasmanian Herbarium -State Herbarium of South Australia -Northern Territory Herbarium -Western Australian Herbarium -Australian National Herbarium, Canberra -University of New England -Ocean Biogeographic Information System -Australian Government, Department of Defence Forestry Corporation, NSW -Geoscience Australia -CSIRO -Australian Tropical Herbarium, Cairns -eBird Australia -Australian Government – Australian Antarctic Data Centre -Museum and Art Gallery of the Northern Territory -Australian Government National Environmental Science Program

-Australian Institute of Marine Science

-Reef Life Survey Australia

-American Museum of Natural History

-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania

-Tasmanian Museum and Art Gallery, Hobart, Tasmania

-Other groups and individuals

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Please feel free to provide feedback via the Contact Us page.

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Department of Agriculture Water and the Environment GPO Box 858 Canberra City ACT 2601 Australia +61 2 6274 1111

## Appendix G

Threatened Species Likelihood of Occurrence

### EEC

	Sta	Occurs on site	Significant Impact Assessment considered		
Endangered Ecological Community	BC Act	EPBC Act	(Y/N)	necessary (Y/N)? (If yes refer Appendix H)	
Grey Box-Grey Gum Wet Sclerophyll Forest in the NSW North Coast Bioregion	E3	-	Ν	Ν	
Lowland Rainforest in the NSW North Coast and Sydney Basin Bioregions	E3	CE	Ν	N	
Lowland Rainforest of Subtropical Australia	-	CE	Ν	N	
Lowland Rainforest on Floodplain in the New South Wales North Coast Bioregion	E3	CE	Ν	N	
Montane Peatlands and Swamps of the New England Tableland, NSW North Coast, Sydney Basin, South East Corner, South Eastern Highlands and Australian Alps bioregions	E3	E	Ν	Ν	
Subtropical Coastal Floodplain Forest of the New South Wales North Coast Bioregion	E3	-	Ν	N	
White Gum Moist Forest in the NSW North Coast Bioregion	E3	-	Ν	N	

Key:

E – Endangered. CE – Critically Endangered.

Likelihood	Criteria
Recorded	The species was observed in the study area during the current survey
High	It is highly likely that a species inhabits the study area and is dependant on identified suitable habitat (ie. for breeding or important life cycle periods such as winter flowering resources), has been recorded recently in the locality (10km) and is known or likely to maintain resident populations in the study area. Also includes species known or likely to visit the study area during regular seasonal movements or migration.
Moderate	Potential habitat is present in the study area. Species unlikely to maintain sedentary populations, however may seasonally use resources within the study area opportunistically or during migration. The species is unlikely to be dependent (ie. for breeding or important life cycle periods such as winter flowering resources) on habitat within the study area, or habitat is in a modified or degraded state. Includes cryptic flowering flora species that were not seasonally targeted by surveys and that have not been recorded.
Low	It is unlikely that the species inhabits the study area and has not been recorded recently in the locality (10km). It may be an occasional visitor, but habitat similar to the study area is widely distributed in the local area, meaning that the species is not dependent (ie. for breeding or important life cycle periods such as winter flowering resources) on available habitat. Specific habitat is not present in the study area or the species are a non-cryptic perennial flora species that were specifically targeted by surveys and not recorded.
None	Suitable habitat is absent from the study area.

### Flora

Scientific Name	Common	atus	Number of	Habitat Dominament	Subject site contains suitable	Likelihood of occurrence	Significant Impact Assessment considered	
Scientific Name	Name	BC Act	EPBC Act	records	nabitat Requirement	Habitat Requirement habitat (Y/N)	Likelinood of occurrence	necessary (Y/N)? (If yes refer Appendix H)
Callitris baileyi	Bailey's Cypress Pine	E	-	32	Rocky, hilly or mountainous areas, usually near creeks, and on shallow and often clay soils. In NSW the population occurs in open grassy eucalypt forest, near a creek.	Y	High (recorded) – There are many mature trees and juveniles. All BioNet records between the Bruxner Highway x Dump Road junction and Tabulam Rivulet. Inspection of a stand close to Sandilands Rest Area indicated the immature trees are being monitored and have been fenced off.	Y

Scientific Name	Common	Status N			Subject site contains suitable	Likelihood of occurrence	Significant Impact Assessment considered	
Scientific Name	Name	BC Act	EPBC Act	records habitat Requirement habitat (Y/N)			necessary (Y/N)? (If yes refer Appendix H)	
Eucalyptus glaucina	Slaty Red Gum	V	V	4	Grows in grassy woodland and dry eucalypt forest on deep, moderately fertile and well-watered soils.	Y	Low – Recorded on BioNet search. Bionet record dates indicate mature specimens over 10 years old would occur site; however, no evidence of this species on site was found during surveys.	Ν
Rhodamnia rubescens	Scrub Turpentine	CE	-	1	Found in littoral, warm temperate and subtropical rainforest and wet sclerophyll forest usually on volcanic and sedimentary soils.	N	None	Ν
Rhodomyrtus psidioides	Native Guava	CE	-	1	Pioneer species found in littoral, warm temperate and subtropical rainforest and wet sclerophyll forest often near creeks and drainage lines.	N	Low	Ν
Sophora fraseri	Brush Sophora	V	V	2	Brush Sophora is usually found in moist situations, often near rainforest	N	None	Ν

Key:

E – Endangered. V – Vulnerable. CE – Critically Endangered.

### Fauna

			Status				Subject site		Significant Impact
Scientific Name	BC EPB Habitat Requirement	Habitat Requirement	contains suitable habitat (Y/N)	Likelihood of occurrence	Assessment considered necessary (Y/N)? (If yes refer Appendix H)				
Aves									
Artamus cyanopterus cyanopterus	Dusky Woodswallow	V	-	3	Primarily inhabit dry, open eucalypt forests and woodlands, including mallee associations, with an open or sparse understorey of eucalypt saplings, acacias and other shrubs, and ground-cover of grasses or sedges and fallen woody debris. It has also been recorded in shrublands, heathlands and very occasionally in moist forest or rainforest. Also found in farmland, usually at the edges of forest or woodland.	Y	Moderate	Y	
Calyptorhynchus lathami	Glossy Black- Cockatoo	V	-	2	Inhabits open forest and woodlands of the coast and the Great Dividing Range up to 1000 m in which stands of She-oak species, particularly Black She-oak ( <i>Allocasuarina littoralis</i> ), Forest She-oak ( <i>A. torulosa</i> ) or Drooping She-oak ( <i>A. verticillata</i> ) occur.	Y	Low	Ν	

		Sta	atus			Subject site		Significant Impact
Scientific Name	Common Name	BC Act	EPB C Act	Number of records	Habitat Requirement	contains suitable habitat (Y/N)	Likelihood of occurrence	Assessment considered necessary (Y/N)? (If yes refer Appendix H)
Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	V	-	12	Occurs in eucalypt forests and woodlands of inland plains and slopes of the Great Dividing Range. It is less commonly found on coastal plains and ranges. Mainly inhabits woodlands dominated by stringybarks or other rough-barked eucalypts, usually with an open grassy understorey	Y	Moderate	Y
Glossopsitta pusilla	Little Lorikeet	V	-	10	Forages primarily in the canopy of open Eucalyptus forest and woodland, yet also finds food in Angophora, Melaleuca and other tree species. Riparian habitats are particularly used. Nests in proximity to feeding areas most typically selecting hollows in the limb or trunk of smooth-barked Eucalypts. Riparian trees often chosen, including species like Allocasuarina.	Y	High	Y

		Sta	atus			Subject site		Significant Impact
Scientific Name	Common Name	BC Act	EPB C Act	Number of records	Habitat Requirement	contains suitable habitat (Y/N)	Likelihood of occurrence	Assessment considered necessary (Y/N)? (If yes refer Appendix H)
Ninox strenua	Powerful Owl	V	-	5	Known from woodland and open sclerophyll forest to tall open wet forest and rainforest. Requires large tracts of forest but can occur in fragmented landscapes. It roosts by day in dense vegetation comprising species such as Turpentine <i>Syncarpia glomulifera</i> , Black She-oak <i>Allocasuarina</i> <i>littoralis</i> , Blackwood <i>Acacia</i> <i>melanoxylon</i> , Rough-barked Apple <i>Angophora floribunda</i> , Cherry Ballart <i>Exocarpus</i> <i>cupressiformis</i> and a number of eucalypt species. Powerful Owls nest in large tree hollows (at least 0.5 m deep), in large eucalypts (diameter at breast height of 80-240 cm) that are at least 150 years old.	Y	Low	N – The lack of hollows 0.5m or larger and small width of forested strip throughout the site would likely deter this species from activity in the proposal area.
Tyto novaehollandiae	Masked Owl	V	-	1	Dry eucalypt forest and woodlands. Roosts and breeds in moist eucalypt forested gullies, using large tree hollows or sometimes caves for nesting.	Y	Low	N – As above
Tyto tenebricosa	Sooty Owl	v	-	1	Dry, subtropical and warm temperate rainforests and wet eucalypt forests. Nest in large tree hollows.	Y	Low	N – As above
Mammalia								

		Status						Significant Impact	
Scientific Name	Common Name	BC Act	EPB C Act	Number of records	Habitat Requirement	Subject site contains suitable habitat (Y/N)	Likelihood of occurrence	Assessment considered necessary (Y/N)? (If yes refer Appendix H)	
Aepyprymnus rufescens	Rufous Bettong	V	-	2	Rufous Bettongs inhabit a variety of forests from tall, moist eucalypt forest to open woodland, with a tussock grass understorey. A dense cover of tall native grasses is the preferred shelter.	Ν	None	N Species unlikely to occupy areas of subject site due to limited habitat and disturbance.	
Dasyurus maculatus maculatus	Spotted-tailed Quoll	V	E	1	Dry and moist eucalypt forests and rainforests, fallen hollow logs, large rocky outcrops.	Y	Low	N Species unlikely to occupy areas of subject site due to limited habitat and disturbance.	
Petauroides volans	Greater Glider	-	V	16	Occur in tall mature eucalypt forest along the Great Dividing Range	Y	Low	N All records from large forest patch to south. Species unlikely to occur in or around subject site due to unsuitable habitat.	
Petaurus norfolcensis	Squirrel Glider	V	-	1	Inhabits mature or old growth Box, Box-Ironbark woodlands and River Red Gum forest west of the Great Dividing Range and Blackbutt-Bloodwood forest with heath understorey in coastal areas.	Y	Moderate	Y	
Phascolarctos cinereus	Koala	V	E	17	The Koala inhabits eucalypt forest and woodland. The suitability of forest and woodland communities as habitat for Koalas is influenced by the size and species of trees present, soil nutrients, climate, rainfall and the size and disturbance history of the habitat patches.	Y	High – High use and preferred food trees are present through the proposal area	Y	

			Status			Subject site		Significant Impact	
Scientific Name	Common Name	BC Act	EPB C Act	Number of records	Habitat Requirement	contains suitable habitat (Y/N)	Likelihood of occurrence	Assessment considered necessary (Y/N)? (If yes refer Appendix H)	
Pteropus poliocephalus	Grey-headed Flying-fox	V	V	3	Subtropical and temperate rainforests, tall sclerophyll forests and woodlands, heaths and swamps as well as urban gardens and cultivated fruit crops.	Ν	Low	N No flying fox camp present at subject site. Impacts limited to small area of potential foraging habitat only.	
Chalinolobus nigrogriseus	Hoary Wattled Bat	V	-	1	In NSW the Hoary Wattled Bat occurs in dry open eucalypt forests, favouring forests dominated by Spotted Gum, boxes and ironbarks, and heathy coastal forests where Red Bloodwood and Scribbly Gum are common. Roosts in hollows and rock crevices.	Y	Moderate	Y	
Scoteanax rueppellii	Greater Broad- nosed Bat	V	-	4	Utilises a variety of habitats from woodland through to moist and dry eucalypt forest and rainforest, though it is most commonly found in tall wet forest. Although this species usually roosts in tree hollows, it has also been found in buildings.	Y	Moderate	Y	

Key:

E – Endangered. V – Vulnerable. CE – Critically Endangered.

## Appendix H

Test Of Significance – *Biodiversity Conservation Act 2016* 

## Appendix H

### **Significant Impact Assessments**

#### **THREATENED SPECIES - TEST OF SIGNIFICANCE**

The threatened species test of significance is used to determine if a development or activity is likely to significantly affect threatened species or ecological communities, or their habitats. It is applied as part of the Biodiversity Offsets Scheme entry requirements and for Part 5 activities under the *Environmental Planning and Assessment Act 1979.* The test of significance is set out in s.7.3 of the *Biodiversity Conservation Act 2016.* 

The following species have been identified as requiring a test of significance for the purposes of the **HW16 Bruxner Highway S5440-5450 Little Creek to Tabulam Rivulet** Minor Works Review of Environmental Factors (MWREF):

#### Flora

• Bailey's Cypress Pine (Callitris baileyi)

Fauna

- Dusky Woodswallow (Artamus cyanopterus cyanopterus)
- Brown Treecreeper (eastern subspecies) (Climacteris picumnus victoriae)
- Little Lorikeet (Glossopsitta pusilla)
- Koala (*Phascolarctos cinereus*)
- Squirrel Glider (Petaurus norfolcensis)
- Hoary Wattled Bat (Chalinolobus nigrogriseus)
- Greater Broad-nosed Bat (Scoteanax rueppellii)

The conservation status, habitat requirements and main threats has been summarised as follows in **Table A.** 

#### Table A: Species profile

Scientific Name	Common Name	Status as per the TSC Act (NSW)	Status as per the EPBC Act (Federal)	Habitat and Ecology * #	Threats * #
Phascolarctos cinereus	Koala	V	V	<ul> <li>Inhabit eucalypt woodlands and forests and feed on the foliage of more than 70 eucalypt species and 30 non-eucalypt species, but in any one area will select preferred browse species.</li> <li>Inactive for most of the day, feeding and moving mostly at night. They spend most of their time in trees but will descend and traverse open ground to move between trees.</li> <li>Home range size varies with quality of habitat, ranging from less than two ha to several hundred hectares in size.</li> <li>Koalas are generally solitary, but have complex social hierarchies based on a dominant male with a territory overlapping several females and sub-ordinate males on the periphery.</li> <li>Females breed at two years of age and produce one young per year.</li> </ul>	<ul> <li>Loss, modification and fragmentation of habitat.</li> <li>Vehicle strike.</li> <li>Predation by roaming or domestic dogs.</li> <li>Intense prescribed burns or wildfires that scorch or burn the tree canopy.</li> <li>Koala disease.</li> <li>Heat stress through drought and heatwaves</li> <li>Human-induced climate change.</li> <li>Inadequate support for fauna rehabilitation</li> <li>Poor understanding of sources of trauma and mortality.</li> <li>Poor understanding of population distribution and trend.</li> <li>Poor understanding of animal movements and use of habitat.</li> </ul>

Petaurus norfolcensis	Squirrel Glider	v	-	<ul> <li>Inhabits mature or old growth Box, Box- Ironbark woodlands and River Red Gum forest west of the Great Dividing Range and Blackbutt-Bloodwood forest with heath understorey in coastal areas.</li> <li>Prefers mixed species stands with a shrub or Acacia midstorey.</li> <li>Live in family groups of a single adult male one or more adult females and offspring.</li> <li>Require abundant tree hollows for refuge and nest sites.</li> <li>Diet varies seasonally and consists of Acacia gum, eucalypt sap, nectar, honeydew and manna, with invertebrates and pollen providing protein.</li> </ul>	<ul> <li>Habitat loss and degradation.</li> <li>Fragmentation of habitat.</li> <li>Loss of hollow-bearing trees.</li> <li>Loss of understorey food resources.</li> <li>Inappropriate fire regimes.</li> <li>Reduction in food resources due to drought.</li> <li>Mortality due to entaglement on barbed wire.</li> <li>Occupation of hollows by exotic species.</li> <li>Mortality due to collision with vehicles.</li> <li>Predation by exotic predators.</li> <li>Changes in spatial and temporal distribution of habitat due to climate change</li> </ul>
Chalinolobus nigrogriseus)	Hoary Wattled Bat			<ul> <li>Occurs in dry open eucalypt forests, favouring forests dominated by Spotted Gum, boxes and ironbarks, and heathy coastal forests where Red Bloodwood and Scribbly Gum are common. Because it flies fast below the canopy level, forests with naturally sparse understorey layers may provide the best habitat.</li> <li>Roosts in hollows and rock crevices.</li> <li>Will occupy urban areas with suitable habitat.</li> </ul>	<ul> <li>Clearing and fragmentation of dry forest and woodland habitat through clearing for agriculture and development.</li> <li>Loss of tree hollows for roosting and maternity sites from forest management favouring younger stands of trees.</li> <li>Loss of hollow-bearing trees used for roosting and maternity sites as a result of too-frequent burning for grazing and forestry management activities.</li> </ul>

					<ul> <li>Pesticides on insects and in water consumed by bats bio accumulates, resulting in poisoning of individuals. The use of pesticides also reduces available insect food sources.</li> <li>Lack of information on the species in NSW to inform a conservation management strategy</li> </ul>
Scoteanax rueppellii	Greater Broad- nosed Bat	V	_	<ul> <li>Utilises a variety of habitats from woodland through to moist and dry eucalypt forest and rainforest, though it is most commonly found in tall wet forest.</li> <li>Although this species usually roosts in tree hollows, it has also been found in buildings.</li> <li>Forages after sunset, flying slowly and directly along creek and river corridors at an altitude of 3 - 6 m.</li> <li>Open woodland habitat and dry open forest suits the direct flight of this species as it searches for beetles and other large, slow-flying insects; this species.</li> <li>Little is known of its reproductive cycle, however a single young is born in January; prior to birth, females congregate at maternity sites located in suitable trees, where they appear to exclude males during the birth and raising of the single young.</li> </ul>	<ul> <li>Disturbance to roosting and summer breeding sites.</li> <li>Foraging habitats are being cleared for residential and agricultural developments, including clearing by residents within rural subdivisions.</li> <li>Loss of hollow-bearing trees.</li> <li>Pesticides and herbicides may reduce the availability of insects, or result in the accumulation of toxic residues in individuals' fat stores.</li> <li>Changes to water regimes are likely to impact food resources, as is the use of pesticides and herbicides near waterways.</li> </ul>

Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies	V	<ul> <li>Found in eucalypt woodlands (including Box-Gum Woodland) and dry open forest of the inland slopes and plains inland of the Great Dividing Range; mainly inhabits woodlands dominated by stringybarks or other rough-barked eucalypts, usually with an open grassy understorey, sometimes with one or more shrub species;</li> <li>Sedentary, considered to be resident in many locations throughout its range; present in all seasons or year-round at many sites; territorial year-round, though some birds may disperse locally after breeding.</li> <li>Gregarious and usually observed in pairs or small groups of 8 to 12 birds; terrestrial and arboreal in about equal proportions; active, noisy and conspicuous while foraging on trunks and branches of trees and amongst fallen timber; spend much more time foraging on the ground and fallen logs than other treecreepers.</li> <li>Hollows in standing dead or live trees and tree stumps are essential for nesting.</li> <li>Primarily inhabit dry, open eucalypt forests</li> <li>Primarily inhabit dry, open eucalypt forests</li> <li>Primarily inhabit dry, open eucalypt forests</li> </ul>
Artamus cyanopterus cyanopterus	Dusky Woodswallow		and woodlands, including malleeand dry open sclerophyll forests, includingassociations, with an open or sparsemallee because of agriculture, mining,understorey of eucalypt saplings, acaciasforestry and residential development.and other shrubs, and ground-cover offorestry and residential development.

	grasses or sedges and fallen woody debris. Primarily eats invertebrates, mainly insects, which are captured whilst hovering or sallying above the canopy or over water. Also frequently hovers, sallies and pounces under the canopy, primarily over leaf litter and dead timber. Also occasionally take nectar, fruit and seed. Depending on location and local climatic conditions (primarily temperature and rainfall), the dusky woodswallow can be resident year round or migratory. In NSW, after breeding, birds migrate to the north of the state and to southeastern Queensland, while Tasmanian birds migrate to southeastern NSW after breeding. Migrants generally depart between March and May, heading south to breed again in spring. There is some evidence of site fidelity for breeding. Although dusky woodswallows generally breed as solitary pairs or occasionally in small flocks, large flocks may form around abundant food sources in winter. Large flocks may also form before migration, which is often undertaken with other species. Nest is an open, cup-shape, made of twigs, grass, fibrous rootlets and occasionally casuarina needles, and may be lined with grass, rootlets or infrequently horsehair, occasionally unlined.	<ul> <li>Reduction in area, and increased isolation of patches of remnant woodland and open forest.</li> <li>Ongoing degradation of habitat through the loss of dead timber, removal of coarse woody debris and other disturbances of the ground layer.</li> <li>Aggressive exclusion by over abundant noisy miners.</li> <li>Reduction in the availability of food resources due to overgrazing and loss of leaf litter.</li> <li>Lack of knowledge within the community regarding the species and its habitat requirements.</li> <li>Habitat degradation from invasion by weeds including exotic grasses and woody weeds, and inappropriate land uses.</li> </ul>
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Sources:

 \* - NSW National Parks and Wildlife Service (NPWS), 2002. Threatened Species of the Upper North Coast of New South Wales - Fauna. NSW National Parks and Wildlife Service, Coffs Harbour.
 ## — Department of Environment and Heritage (DEH), 2019, NSW Threatened Species Profiles, http://www.environment.nsw.gov.au/threatenedSpeciesApp/ (Accessed February 2020).

**Key**: V – Vulnerable.

7.3 Test for determining whether proposed development or activity likely to significantly affect threatened species or ecological communities, or their habitats

(1) The following is to be taken into account for the purposes of determining whether a proposed development or activity is likely to significantly affect threatened species or ecological communities, or their habitats:

(a) in the case of a threatened species, whether the proposed development or activity is likely to have an adverse effect on the life cycle of the species such that a viable local population of the species is likely to be placed at risk of extinction,

#### Bailey's Cypress Pine (Callitris baileyi)

The proposal is unlikely to have an adverse impact on the life cycle of this species such that the viable local population of the species is likely to be placed at risk of extinction as the works will avoid removal of any individuals of this species. All individuals have been identified and map and an exclusion zone will be established to protect the species during works.

#### <u>Koala</u>

A total of 15 koala records are recorded within 5km radius of the subject site between 1985 and 2019, with the majority of records recorded after 2006. It is likely a resident koala population existing in the local area and the site may form part of the home range for individual koalas, or provide connectivity between occupied habitat in the surrounding areas.

The proposal is unlikely to have an adverse impact on the life cycle of Koalas such that the viable local population of the species is likely to be placed at risk of extinction for the following reasons:

- The proposal will result in the clearing of a relatively small area of koala habitat located directly adjacent to the Bruxner Highway. A total of twenty one (21) koala food trees ) are proposed to be removed. The trees are located within 9 m of the highway and the site survey indicated the trees to be cleared are not high use trees with no evidence of use by koala (scats, scratch marks) observed.
- The surrounding landscape contains large areas (>10,000ha) of contiguous vegetation which includes areas of koala habitat which will not be impacted by the proposal and will continue to provide habitat for resident koalas in the locality.
- The proposal will not significantly increase habitat fragmentation or further restrict the movement of koalas across the landscape, therefore there will be no ongoing impacts on the ability of individuals to disperse, interact and breed.

#### Squirrel Glider

One records of Squirrel Glider has been recorded within 5km radius of the subject site. This record comes from Sugarloaf State Forest which is located to the south of the subject site. While the vegetation is contiguous and would allow the movement of both these species through the subject site the vegetation on and surrounding, the subject site is considered to be suitable for Squirrel Gliders, and marginal for Greater Gliders. The low density of suitable habitat trees which provide hollows for these species in the landscape surrounding the subject site and will limit occupancy.

The proposed activity is unlikely to have an adverse effect on the life cycle of these glider species such that a viable local population of the species is likely to be placed at risk of extinction for the following reasons:

- The proposal will result in the clearing of a relatively small area of habitat which includes the removal of 29 individual trees which are located directly adjacent to the Bruxner Highway.
- No sap feeding trees were recorded amongst the tree proposed for removal.

- Hollows on habitat trees proposed for removal will be reinstalled on site at a ratio of 1:2, so no hollows are lost as a result of the works.
- Pre-clearing surveys will be conducted, and a spotter catcher will be on site during clearing to ensure no individual animals are directly impacted.

• The proposal will result in a slight increase in habitat fragmentation due to the widening of the road corridor however the width of clearing is unlikely to inhibit the movement of gliders across the road way as the canopy separation will still allow movement for these species.

• The surrounding landscape contains large areas (>10,000ha) of contiguous vegetation which includes habitat which will not be impacted by the proposal and will continue to provide habitat for resident gliders in the locality.

#### Dusky Woodswallow, Brown Treecreeper

BioNet records contain a total of 3 Dusky Woodswallow and 11 Brown Treecreeper records within a 5km radius of the subject site. All of these records come from Sugarloaf State Forest which is located to the south of the subject site.

The proposed activity is unlikely to have an adverse effect on the life cycle of these bird species such that a viable local population of the species is likely to be placed at risk of extinction for the following reasons:

- The proposal will result in the clearing of a relatively small area of habitat which includes the removal of 29 individual trees which are located directly adjacent to the Bruxner Highway. This is considered to be a small area relative to these species home ranges and will result in the loss of potential foraging habitat.
- Pre-clearing surveys will be conducted, and a spotter catcher will be on site during clearing to ensure no individual animals are directly impacted.
- Hollows on habitat trees proposed for removal will be reinstalled on site at a ratio of 1:2, so no hollows are lost as a result of the works.
- The proposal will not increase the fragmentation such that it would effect the ability of these species to move, disperse, interact and breed.

#### Hoary Wattled Bat, Greater Broad-nosed Bat

The proposed activity is unlikely to have an adverse effect on the life cycle of these microbat species such that a viable local population of the species is likely to be placed at risk of extinction for the following reasons:

- Hollows on habitat trees proposed for removal will be reinstalled on site at a ratio of 1:2, so no hollows are lost as a result of the works.
- The culverts present at the site were checked and at the time of the survey did not contain microbats, and no evidence of use was observed. These microbat species prefer tree hollows as roost sites, but some have been recorded using structures, and potentially could utilise culverts as roosting habitat. Pre-clearing surveys will be conducted, and if microbats are observed works will cease and plans will be developed to ensure no individual animals are directly impacted.
- The proposal will not increase the fragmentation such that it would affect the ability of these species to move, disperse, interact and breed.

(b) in the case of an endangered ecological community or critically endangered ecological community, whether the proposed development or activity:

(i) is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or

## (ii) is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction,

Not applicable. Assessment does not relate to an endangered ecological community or critically endangered ecological community.

#### (c) in relation to the habitat of a threatened species or ecological community:

## (i) the extent to which habitat is likely to be removed or modified as a result of the proposed development or activity, and

The proposal will result in the clearing of 29 individual trees which are located within the road reserve and within 9m of the road. An area of approximately 0.09ha of native early regrowth vegetation will also be cleared to construct a compound site.

## (ii) whether an area of habitat is likely to become fragmented or isolated from other areas of habitat as a result of the proposed development or activity, and

The proposal will not increase habitat fragmentation or restrict the movement of species across the landscape as clearing will not significantly increase landscape fragmentation. Therefore, there will be no new or ongoing restriction to the ability of individuals to interact and breed as a result of the proposal.

(iii) the importance of the habitat to be removed, modified, fragmented or isolated to the long-term survival of the species or ecological community in the locality,

It is unlikely that the long-term survival of the species' will be significantly impacted as a result of the disturbance to the vegetation given:

- 1. The relatively small area of habitat being impacted by the proposal and the large areas of available habitat in the broader surrounding area.
- 2. The habitat will not be fragmented or isolated such that it will restrict the movement of any of the subject species or limit access to areas of habitat.

## (d) whether the proposed development or activity is likely to have an adverse effect on any declared area of outstanding biodiversity value (either directly or indirectly),

There are no declared areas of outstanding biodiversity value at or close to the proposed site and the proposal is highly unlikely to have an indirect impact to these areas.

## (e) whether the proposed development or activity is or is part of a key threatening process or is likely to increase the impact of a key threatening process.

A threatening process is defined under the *Biodiversity Conservation Act 2017* as a process that threatens, or may have the capability to threaten, the survival or evolutionary development of species, populations or ecological communities. The current list of key threatening processes (KTPs) and whether the Proposal constitutes any KTPs, is summarised in **Table C.** 

The Proposal would likely contribute to an incremental and cumulative increase to the following Key Threatening Processes;

- Clearing of Native Vegetation.
- Loss of hollow-bearing trees

Listed Key Threatening Processes (as described in the final determination of the Scientific Committee to list the threatening process)	propose developr	development or activity sed of a class of opment or activity that is nised as a threatening ss?			
	Likely	Possible	Unlikel		
Aggressive exclusion of birds by noisy miners (Manorina			√		
melanocephala)					
Alteration of habitat following subsidence due to longwall mining			✓		
Alteration to the natural flow regimes of rivers and streams and			~		
their floodplains and wetlands					
Anthropogenic climate change			✓		
Bush rock removal			√		
Clearing of native vegetation	√				
Competition and grazing by the feral European rabbit ( <i>Oryctolagus</i>			$\checkmark$		
cuniculus)			~		
Competition and habitat degradation by feral goats (Capra hircus)			✓ ✓		
Competition from feral honey bees (Apis mellifera)			• ✓		
Death or injury to marine species following capture in shark			v		
control programs on ocean beaches			√		
Entanglement in or ingestion of anthropogenic debris in marine			v		
and estuarine environments			✓		
Forest Eucalypt dieback associated with over-abundant psyllids			v		
and bell miners			✓		
High frequency fire resulting in the disruption of life cycle			v		
processes in plants and animals and loss of vegetation structure					
and composition			√		
Herbivory and environmental degradation caused by feral deer			· · ·		
Importation of red imported fire ants ( <i>Solenopsis invicta</i> ) Infection by psittacine circoviral (beak and feather) disease			· · · · · · · · · · · · · · · · · · ·		
affecting endangered psittacine species and populations					
Infection of frogs by amphibian chytrid causing the disease			✓		
chytridiomycosis			,		
Infection of native plants by <i>Phytophthora cinnamomi</i>			✓		
Introduction and Establishment of Exotic Rust Fungi of the order			✓		
Pucciniales pathogenic on plants of the family Myrtaceae					
Introduction of the large earth bumblebee ( <i>Bombus terrestris</i> )			√		
Invasion and establishment of exotic vines and scramblers			√		
Invasion and establishment of Scotch broom (Cytisus scoparius)			✓		
Invasion and establishment of the cane toad ( <i>Bufo marinus</i> )			✓		
Invasion of native plant communities by African Olive Olea			✓		
europaea L. subsp. cuspidata					
Invasion, establishment and spread of Lantana camara			✓		
Invasion of native plant communities by Chrysanthemoides			√		
monilifera (bitou bush and boneseed)					
Invasion of native plant communities by exotic perennial grasses			√		
Invasion of the yellow crazy ant (Anoplolepis gracilipes (Fr. Smith)			√		
into NSW					
Loss and degradation of native plant and animal habitat by			√		
invasion of escaped garden plants, including aquatic plants					
Loss of hollow-bearing trees	√				
Loss or degradation (or both) of sites used for hill-topping by			✓		
butterflies					
Predation and hybridisation of feral dogs (Canis lupus familiaris)			√		
Predation by the European red fox (Vulpes vulpes)			√		
Predation by the feral cat (Felis catus)			√		
Predation by Gambusia holbrooki Girard, 1859 (plague minnow or			√		
mosquito fish)					
Predation by the ship rat (Rattus rattus) on Lord Howe Island			√		
Predation, habitat degradation, competition and disease			√		
transmission by feral pigs (Sus scrofa)					
Removal of dead wood and dead trees		√			

#### Table A1 Impact of proposed works as a Key Threatening Process.

#### **Conclusion:**

It is the conclusion of this assessment that given the scale of the proposed works, the fact that the subject culverts represent only marginal potential habitat, the greater extent of available habitat in the locality and adoption of the proposed safeguards, the proposal is unlikely to result in a significant impact on the local occurrence of the subject species. Consequently, further consideration in the form of a Species Impact Statement is not required.