



VARIATION OF CONDITIONS ATTACHED TO APPROVAL Bruce Highway, Cooroy to Curra (Section D, Woondum to Curra), east of Gympie, Queensland (EPBC 2017/7941)

This decision to vary conditions of approval is made under section 143 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Approved action

Person to whom the approval is granted	Department of Transport and Main Roads ACN: 39 407 690 291
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Approved action	To upgrade and realign an existing 26 kilometre section of the Bruce Highway, including a bypass between Cooroy and Curra, east of Gympie, Queensland.
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Variation

Variation of conditions attached to approval	The variation is: Delete conditions 3 and 7 attached to the approval and substitute with the conditions specified in the table below Add definitions of Cat's Claw Creeper and Cat's Claw Creeper Survey and Control Program specified in the table below
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Date of effect	This variation has effect on the date the instrument is signed
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Person authorised to make decision

Name and position	Declan O'Connor-Cox Assistant Secretary A/g Assessments (Vic, Tas) and Post Approvals Branch
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Signature	
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Date of decision	7 September 2020
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Date of decision	ANNEXURE A – CONDITIONS OF APPROVAL
	Part A – Conditions specific to the action
Variation dated 20/4/2020	<p>Project requirements</p> <p>1. Within the impact site, the approval holder must not clear more than:</p> <ul style="list-style-type: none"> a. 2 hectares of Lowland rainforest; b. 8.08 hectares of Black-breasted Button-quail habitat; and c. 135.83 hectares of Koala habitat.
Original dated 24/9/2019	<p>2. Prior to commencement, a suitably qualified person must undertake a baseline survey to determine the extent (in hectares) and quality of Lowland rainforest in the riparian area of Six Mile Creek. Surveys must be undertaken in accordance with the best practice guidelines in effect at the time of the surveys. The approval holder must publish the results of the baseline surveys in the first annual compliance report required under condition 20.</p>
As varied on the date this instrument was signed	<p>3. To encourage the continued ecological value of the Lowland rainforest in the riparian area of Six Mile Creek, the approval holder must, within four years of commencement, provide at least \$75 000 of funding to extend the duration and/or extent of the Cat’s Claw Creeper Survey and Control Program.</p>
Original dated 24/9/2019	<p>4. Prior to operation of the action, the approval holder must establish fauna connectivity structures and fauna exclusion fencing. Once established, the fauna connectivity structures and fauna exclusion fencing must be maintained by the approval holder for the duration of the approval. Exclusion fencing must include gates that are secured at all times with padlocks or a similar break-proof securing mechanism.</p>
Original dated 24/9/2019	<p>Translocation requirements</p> <p>5. Prior to any translocation of Pineapple zamia plants, the approval holder must:</p> <ul style="list-style-type: none"> a. record the number of viable adult Pineapple zamia plants at the impact site; b. collect enough seeds from Pineapple zamia plants at the impact site and, if necessary, from alternative sites, to enable replacement of no less than 48 per cent of the number of adult Pineapple zamia plants at the impact site; and c. legally secure the translocation site.
Original dated 24/9/2019	<p>6. Prior to commencement of Contract 2, the approval holder must translocate every Pineapple zamia plant from the impact site to the translocation site. Within 20 business days of removing the last Pineapple zamia plant from the impact site, the approval holder must notify the Department of the date the last Pineapple zamia plant was removed and the total number of Pineapple zamia plants removed (specifying the number of adult Pineapple zamia plants removed and the number of seedling Pineapple zamia plants removed).</p>
As varied on the date this instrument was signed	<p>7. The approval holder must ensure any adult Pineapple zamia plant that suffers mortality at the translocation site, within 5 years of the date the last Pineapple zamia plant was removed from the impact site, is replaced by 4 Pineapple zamia plants. Replacement plants must be sourced from</p>

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	propagation of seeds collected from the impact site or from alternative sites . Replacement plants must be planted within 3 years of the mortality of the plant they are replacing.
Original dated 24/9/2019	8. By one year before the end date of this approval, the approval holder must ensure that the number of Pineapple zamia plants that exist at the translocation site is at least 1.5 times the number of Pineapple zamia plants translocated from the impact site , as reported under condition 6.
variation dated 20/4/2020	<p>Koala and Black-breasted Button-quail Offset requirements</p> <p>9. To compensate for the loss of 135.83 hectares of Koala habitat and 8.08 hectares of Black-breasted Button-quail habitat, the approval holder must, prior to commencement, legally secure a minimum of 280.36 hectares at the Koala offsets areas and 32.15 hectares at the Black-breasted Button-quail offset area. Within 20 business days of securing the Koala offset areas and Black-breasted Button-quail offset area, and prior to commencement, the approval holder must provide the Department with evidence of the date(s) on which the Koala offset areas and Black-breasted Button-quail offset area were legally secured and electronic spatial data (shapefiles) and offset attributes of the Koala offset areas and Black-breasted Button-quail offset area.</p>
Original dated 24/9/2019	<p>10. Within 6 months of legally securing the Koala offset areas and Black-breasted Button-quail offset area, the approval holder must complete baseline surveys of the entire Koala offset areas and Black-breasted Button-quail offset area. The baseline surveys must be conducted by a suitably qualified person in accordance with the most recently published version of the Department's survey guidelines and include details of:</p> <ul style="list-style-type: none"> a. the quality of Black-breasted Button-quail habitat and Koala habitat; b. weed infestation; c. Koala density and Black-breasted Button-quail presence; and d. pest abundance.
Original dated 24/9/2019	<p>11. Within 1 year of legally securing the Koala offset areas and Black-breasted Button-quail offset area, the approval holder must publish on the website and provide to the Department a report detailing:</p> <ul style="list-style-type: none"> a. the results of the baseline surveys required under condition 10; b. management measures, prepared by a suitably qualified person and subsequently reviewed by an independent suitably qualified person, (including timing, frequency and longevity) that will be implemented to deliver the outcomes required by condition 12, including: <ul style="list-style-type: none"> i. performance and completion criteria for evaluating the success of the management measures and criteria for triggering remedial action (if necessary); ii. a program, including timelines, to monitor (capable of timely detection of triggers for corrective action) and report on the effectiveness of the management measures, and progress against the performance and completion criteria;

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	<ul style="list-style-type: none"> iii. remediation measures to be implemented where monitoring of the performance criteria indicate failure to achieve the outcomes of condition 12; and iv. a description of potential risks to the successful implementation of the management measures and a description of the control measures that would be implemented to mitigate against these risks and residual risk ratings.
Variation dated 20/4/2020	<p>12. The approval holder must:</p> <ul style="list-style-type: none"> a. For the duration of the approval, ensure no net loss in the quality and extent of Black-breasted Button-quail habitat and the Koala habitat within the Koala offset areas and Black-breasted Button-quail offset area compared to the baseline survey data reported under condition 11a; b. Within 12 months of completing the baseline surveys required by condition 11a for the Koala offset areas, commence implementation of an ongoing Koala food tree replanting program in the Koala offset areas. The replanting program must be undertaken by a suitably qualified person and include measures to ensure the maintenance and survival of new Koala food trees in the Koala offset areas; c. Within 15 years of completing the baseline surveys required by condition 11a, demonstrate a 20% increase in Koala food tree recruitment over the entire Koala offset areas compared to the baseline survey results reported as required under condition 11a; d. Demonstrate the following reductions in weed infestation in all of the Koala offset areas and the Black-breasted Button-quail offset area compared to the baseline data reported as required under condition 11a: <ul style="list-style-type: none"> i. 50% reduction within 3 years of completing the baseline surveys required by condition 11a; ii. 90% reduction within 10 years of completing the baseline surveys required by condition 11a; e. Within 15 years of completing the baseline surveys required by condition 11a, demonstrate than an increase of at least 50% of Koala density has been achieved across the entirety of the Koala offset areas compared to the baseline data reported under condition 11a. To determine progress towards this outcome, Koala density surveys must be undertaken across the entirety of the Koala offset areas by a suitably qualified person within both 5 and 10 years respectively of completing the baseline surveys required by condition 11a. Contingency measures must be implemented to increase Koala density across the entire Koala offset areas where the results of these surveys indicate no or minimal increases in Koala density; f. Demonstrate a reduction across each of the Koala offset areas and the Black-breasted Button-quail offset area, maintained for at least 10 consecutive years from completion of the baseline surveys required by condition 11a, in pest abundance compared to the baseline data reported under condition 11a; g. Report to the Department in each compliance report required under condition 20, matters required under condition 11b, and progress towards and achievement of the outcome milestones specified in this

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	condition 12.
Variation dated 20/4/2020	<p>Lowland rainforest offset requirements</p> <p>13. To compensate for the loss of 2 hectares of Lowland rainforest, the approval holder must submit an Offset Strategy prepared by a suitably qualified person in accordance with the Environmental Management Plan Guidelines and the principles of the EPBC Act Environmental Offsets Policy. The action must not commence until the Offset Strategy has been approved by the Minister in writing. The approved Offset Strategy must be implemented and published on the website. The Offset Strategy must:</p> <ul style="list-style-type: none"> a. provide a written description and map that clearly defines the location and boundaries of the proposed offset area(s) for Lowland rainforest and includes offset attributes and shapefiles; b. include timelines and mechanisms for legally securing the offset area(s); c. demonstrate the presence of Lowland rainforest in the proposed offset area(s) and the quality of the Lowland rainforest in the proposed offset area(s), including evidence that it meets the threshold criteria for Lowland rainforest; d. commit to ecological outcomes and offset completion criteria for Lowland rainforest and the timeframes in which these will be achieved; e. include time bound performance and completion criteria for evaluating that ecological outcomes have been achieved and criteria for triggering remedial action; f. commit to a program to monitor and report on progress against the performance and completion criteria.
Original dated 24/9/2019	<p>Corrective action requirements</p> <p>14. If, at any time during the life of the approval, the Minister is not satisfied that the outcomes required under conditions 3, 8 or 12 are likely to be achieved, or is not satisfied there is sufficient evidence that the outcomes required under conditions 3, 8 or 12 are likely to be achieved (including on the basis of information provided in compliance reports and or audit(s) under these conditions of approval), the Minister may require the approval holder to submit a corrective action plan for the Minister’s approval, to monitor, manage, avoid, mitigate, offset, record or report on, impacts to Pineapple zamia, Lowland rainforest, the Black-breasted Button-quail and/or the Koala.</p> <ul style="list-style-type: none"> a. The Minister may set a timeframe in which the corrective action plan must be submitted, and may specify that the corrective action plan must be prepared or reviewed by a suitably qualified person (or another specified person). b. If the Minister approves the corrective action plan, the approval holder must implement the approved corrective action plan.

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	Part B – Standard administrative conditions
Original dated 24/9/2019	<p>Commencement of the action</p> <p>15. The approval holder must notify the Department in writing of the date of commencement within 10 business days after the date of commencement.</p>
Original dated 24/9/2019	<p>Compliance records</p> <p>16. The approval holder must maintain accurate and complete compliance records.</p>
Original dated 24/9/2019	<p>17. If the Department makes a request in writing, the approval holder must provide electronic copies of compliance records to the Department within the timeframe specified in the request.</p> <p>Note: Compliance records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, and or used to verify compliance with the conditions. Summaries of the result of an audit may be published on the Department's website or through the general media.</p>
Original dated 24/9/2019	<p>Preparation and publication of plans</p> <p>18. The approval holder must:</p> <ol style="list-style-type: none"> a. submit plans electronically to the Department for approval by the Minister; b. publish each plan on the website within 20 business days of the date the plan is approved by the Minister or of the date a revised plan is submitted to the Minister, unless otherwise agreed to in writing by the Minister; c. exclude or redact sensitive ecological data from plans published on the website or provided to a member of the public; and d. keep plans published on the website until the end date of this approval.
Original dated 24/9/2019	<p>19. The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required the conditions of this approval, is prepared in accordance with the Department's Guidelines for biological survey and mapped data (2018) and submitted electronically to the Department with the relevant plan.</p>
Original dated 24/9/2019	<p>Annual compliance reporting</p> <p>20. The approval holder must prepare a compliance report for each 12 month period following the date of commencement, or as <u>otherwise agreed to in writing by the Minister</u>. The approval holder must:</p> <ol style="list-style-type: none"> a. publish each compliance report on the website within 60 business days following the relevant 12 month period; b. notify the Department by email that a compliance report has been published on the website within 5 business days of the date of publication; c. keep all compliance reports publicly available on the website until this approval expires;

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	<p>d. <u>exclude</u> or redact sensitive ecological data from compliance reports published on the website; and</p> <p>e. where any sensitive ecological data has been excluded from the version published, submit the full compliance report to the Department within 5 business days of publication.</p> <p>Note: Compliance reports may be published on the Department's website.</p>
Original dated 24/9/2019	<p>Reporting non-compliance</p> <p>21. The approval holder must notify the Department in writing of any: incident; non-compliance with the conditions; or non-compliance with the commitments made in plans. The notification must be given as soon as practicable, and no later than 5 business days after becoming aware of the incident or non-compliance. The notification must specify:</p> <ol style="list-style-type: none"> a. the condition which is or may be in breach; and b. a short description of the incident and or non-compliance.
Original dated 24/9/2019	<p>22. The approval holder must provide to the Department the details of any incident or non-compliance with the conditions or commitments made in plans as soon as practicable and no later than 10 business days after becoming aware of the incident or non-compliance, specifying:</p> <ol style="list-style-type: none"> a. any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future; b. the potential impacts of the incident or non-compliance; and c. the method and timing of any remedial action that will be undertaken by the approval holder.
Original dated 24/9/2019	<p>Independent audit</p> <p>23. The approval holder must ensure that independent audits of compliance with the conditions are conducted as requested in writing by the Minister.</p>
Original dated 24/9/2019	<p>24. For each independent audit, the approval holder must:</p> <ol style="list-style-type: none"> a. provide the name and qualifications of the independent auditor and the draft audit criteria to the Department; b. only commence the independent audit once the audit criteria have been approved in writing by the Department; and c. submit an audit report to the Department within the timeframe specified in the approved audit criteria.
Original dated 24/9/2019	<p>25. The approval holder must publish the audit report on the website within 10 business days of receiving the Department's approval of the audit report and keep the audit report published on the website until the end date of this approval.</p>
Original dated 24/9/2019	<p>Revision of plans</p> <p>26. The approval holder may choose to revise a plan or strategy approved by the Minister under condition 13, by submitting an application in accordance with the requirements of section 143A of the EPBC Act. If the Minister</p>

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	approves the plan then, from the date specified, the approval holder must implement the plan in place of the previous plan .
Original dated 24/9/2019	<p>Completion of the action</p> <p>27. Within 20 business days after completion, the approval holder must notify the Department in writing and provide completion data.</p>

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	In these conditions, except where contrary intention is expressed, the following definitions are used.
Original dated 24/9/2019	Adult Pineapple zamia means Pineapple zamia plants that have an underground stem.
Original dated 24/9/2019	Alternative sites means a site or sites that support Pineapple zamia plants in a representative geographical region (as determined by a suitably qualified person) to the Pineapple zamia plants within the impact site .
Original dated 24/9/2019	Black-breasted Button-quail means the Black-breasted Button-quail (<i>Turnix melanogaster</i>) listed as a threatened species under the EPBC Act .
Original dated 24/9/2019	Black-breasted Button-quail habitat means any areas of vegetation that provides habitat suitable for the Black-breasted Button-quail as described in the current conservation and/or recovery plan for the species approved by the Minister .
Variation dated 20/4/2020	Black-breasted Button-quail offset area means the coloured areas of the Offset Properties designated as 'Offset Lots' in the map at <u>Attachment F</u> .
Original dated 24/9/2019	Black-breasted Button-quail presence means number of Black-breasted Button-quail identified on the Black-breasted Button-quail offset area , including evidence of Black-breasted Button-quail foraging, sheltering or otherwise using available habitat within the Black-breasted Button-quail offset area .
Variation dated 20/4/2020	Buffers - Revoked
Original dated 24/9/2019	Business day means a day that is not a Saturday, a Sunday or a public holiday for the whole of Queensland.
As varied on the date this instrument was signed	Cat's Claw Creeper means the Cat's Claw Creeper (<i>Dolichandra unguis-cati</i>) listed as a Weed of National Significance.
As varied on the date this instrument was signed	Cat's Claw Creeper Survey and Control Program means the program to survey and control Cat's Claw Creeper developed and being implemented by the Gympie Regional Council and the Mary River Catchment Coordinating Committee.
Original dated 24/9/2019	Commencement means the first instance of the use of heavy duty equipment for the purpose of clearing vegetation or breaking the ground to construct roads

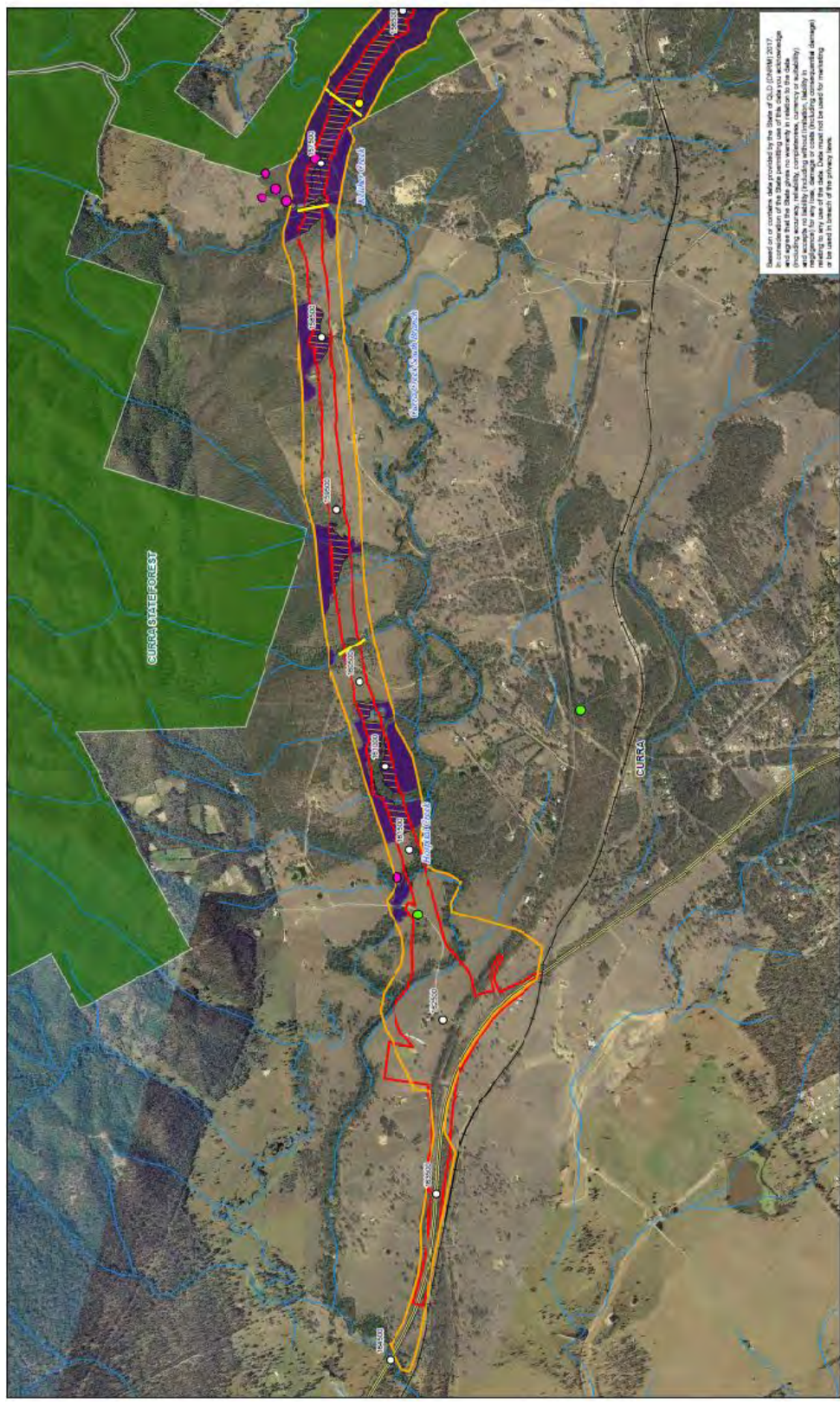
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	<p>associated with the action. This does not include physical disturbance necessary to:</p> <ol style="list-style-type: none"> a. undertake pre-clearance surveys or monitoring programs; b. install signage and or temporary fencing to prevent unapproved use or access to the impact site or the translocation site; c. protect environmental and property assets from fire, weeds and pests, including construction of fencing and maintenance of existing surface access tracks; d. undertake geotechnical investigations; e. relocate public utility plant (e.g. electricity transmission lines); or f. translocate Pineapple Zamia plants from the impact site to the translocation site.
Original dated 24/9/2019	Completion means the time at which all conditions have been fully met.
Original dated 24/9/2019	<p>Completion data means an environmental report and spatial data information clearly detailing how the outcomes required under the conditions of this approval have been met. The Department's preferred spatial data format is shapefile. This includes, but is not limited to information detailing:</p> <ol style="list-style-type: none"> i. the date, location and extent of protected matter habitat cleared within the impact site; ii. the location, extent and quality of protected matter habitat within the Koala offset areas and Black-breasted Button-quail offset area; iii. the date, location and extent of Lowland rainforest cleared within the impact site; iv. the location, extent and quality of offsets for Lowland rainforest as required by the approved Offset Strategy; and v. the number of Pineapple zamia plants at the translocation site.
Original dated 24/9/2019	Compliance records means all documentation or other material in whatever form required to demonstrate compliance with the conditions of approval. This includes any documentation in the approval holder's possession or that are within the approval holder's power to obtain lawfully.
Original dated 24/9/2019	<p>Compliance report(s) means written reports:</p> <ol style="list-style-type: none"> a. providing accurate and complete details of compliance, incidents, and non-compliance with the conditions and the plans; b. consistent with the Department's Annual Compliance Report Guidelines (2014); c. including a shapefile of any clearance of any protected matters, or their habitat, undertaken within the relevant 12 month period; and d. annexing a schedule of all plans prepared and in existence in relation to the conditions during the relevant 12 month period.
Original dated 24/9/2019	Contract 2 means the Northern Contract of approximately 18 km in length that will extend from north of Sandy Creek Road to Curra as shown in the map at <u>Attachment A</u> .

Date of decision	Definitions attached to approval
Original dated 24/9/2019	Department means the Australian Government agency responsible for administering the EPBC Act .
Original dated 24/9/2019	Department's survey guidelines means the relevant Survey Guidelines for Australia's threatened birds and Survey Guidelines for Australia's threatened mammals as published at http://www.environment.gov.au/epbc/publications#compliance , immediately prior to the undertaking of the relevant survey.
Original dated 24/9/2019	EPBC Act means the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Cth).
Original dated 24/9/2019	EPBC Act Environmental Offsets Policy means the <i>Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy</i> (October 2012), or subsequent revision, including the Offsets Assessment Guide.
Original dated 24/9/2019	EPBC Act listed threatened species and communities includes the Koala, Black-breasted Button-quail, Pineapple zamia and Lowland rainforest .
Original dated 24/9/2019	Environmental Management Plan Guidelines means the Department's Environmental Management Plan Guidelines . Commonwealth of Australia (2014), or subsequent revision.
Original dated 24/9/2019	Fauna connectivity structure means a structure designed by a suitably qualified person capable of enabling safe passage of the Black-breasted Button-quail and the Koala under the road(s) constructed as a part of the action at the locations marked as 'Fauna Connectivity Structure' in the maps at <u>Attachments B1, B2, B3 and B4</u> .
Original dated 24/9/2019	Fauna exclusion fencing means a structure and tree and shrub free precinct, the design of which is certified by a suitably qualified person to be capable of preventing the Black-breasted Button-quail and the Koala from crossing the road(s), constructed as a part of the action, located where marked as 'Fauna Exclusion Fencing' in the maps at Attachments C1 and C2.
Original dated 24/9/2019	Impact site means the area marked as Contract 1 and Contract 2 in the map at <u>Attachment A</u> .
Original dated 24/9/2019	Incident means any event which has the potential to, or does, impact on protected matter(s) .
Original dated 24/9/2019	Independent audit(s) means an audit conducted by an independent and suitably qualified person as detailed in the Department's Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines (2015).
Original dated 24/9/2019	Koala means the Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) (<i>Phascolarctos cinereus</i> (combined populations of Qld, NSW and the ACT)) listed as a threatened species under the EPBC Act .
Original dated 24/9/2019	Koala density means the number and/or utilisation and distribution of Koalas per unit area as determined in field surveys over the entire Koala offset areas undertaken by a suitably qualified person using a scientifically robust and

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	repeatable methodology over a timeframe that serves as a sound basis for comparison.
Original dated 24/9/2019	Koala food tree means a species of tree of genus <i>Angophera</i> , <i>Corymbia</i> , <i>Eucalyptus</i> , <i>Lophostemon</i> or <i>Melaleuca</i> , with a height of more than 4 metres or with a trunk circumference more than 31.5 centimetres at 1.3 metres above the ground, the leaves of which are known to be consumed by the Koala .
Original dated 24/9/2019	Koala habitat means any vegetation that contains Koala food trees and scores five or more using the habitat assessment tool in Table 4 of the Koala referral guidelines .
Variation dated 20/4/2020	Koala offset areas means the coloured areas of the Offset Properties designated as 'Offset Lots' in the maps at Attachments E1 , E2 and E3 .
Original dated 24/9/2019	Koala referral guidelines means Department's EPBC Act referral guidelines for the vulnerable koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) , Commonwealth of Australia, 2014.
Original dated 24/9/2019	Legally secure means protect for conservation under a voluntary declaration under the <i>Vegetation Management Act 1999</i> (Qld) or as a nature refuge under the <i>Nature Conservation Act 1992</i> (Qld) or another enduring protection mechanism agreed to in writing by the Department .
Variation dated 20/4/2020	Lowland rainforest means vegetation that is determined by surveys undertaken by a suitably qualified person as conforming to the Lowland Rainforest of Subtropical Australia listed as a threatened ecological community under the EPBC Act and defined in accordance with the Threatened Species Scientific Committee (2011). <i>Commonwealth Listing Advice on Lowland Rainforest of Subtropical Australia</i> . Department of Sustainability, Environment, Water, Population and Communities, Canberra. This includes areas where threatened ecological communities are within 50m of cleared area.
Original dated 24/9/2019	Minister means the Australian Government Minister administering the EPBC Act including any delegate thereof.
Original dated 24/9/2019	Monitoring data means the data required to be recorded under the conditions of this approval.
Original dated 24/9/2019	Offset attributes means an '.xls' file capturing relevant attributes of the offset area, including: <ul style="list-style-type: none"> i. EPBC Act reference number ii. Physical address of the offset area; iii. Coordinates of the boundary points in decimal degrees; iv. EPBC Act listed threatened species and communities that the offset compensates for; v. Any additional protected matters that are benefiting from the offset; and vi. Size of the offset in hectares.
Variation dated 20/4/2020	Offset Properties means the following properties. The species being offset at each property is shown in parentheses. <ul style="list-style-type: none"> • Lot 19SP299683 (Koala, <i>Phascolarctos cinereus</i>)

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	<ul style="list-style-type: none"> • Lot 1MPH5670 (Koala, <i>Phascolarctos cinereus</i>) • Lot 1MPH23904 (Koala, <i>Phascolarctos cinereus</i>) • Lot 2SP302526 (Koala, <i>Phascolarctos cinereus</i>) (Black-breasted Button-quail, <i>Turnix melanogaster</i>) • Lot 4MPH23906 (Koala, <i>Phascolarctos cinereus</i>) • Lot 763MCH5342 (Koala, <i>Phascolarctos cinereus</i>) • Lot 102SP297908 (Koala, <i>Phascolarctos cinereus</i>) (Black-breasted Button-quail, <i>Turnix melanogaster</i>) • Lot 1MPH23906 (Koala, <i>Phascolarctos cinereus</i>) • Lot 3MPH23906 (Koala, <i>Phascolarctos cinereus</i>) • Lot 889CP864404 (Koala, <i>Phascolarctos cinereus</i>) • Lot 878MCH1061 (Koala, <i>Phascolarctos cinereus</i>) • Lot 2MPH14193 (Koala, <i>Phascolarctos cinereus</i>) • Lot 3SP302524 (Koala, <i>Phascolarctos cinereus</i>) (Black-breasted Button-quail, <i>Turnix melanogaster</i>)
Original dated 24/9/2019	Operation means the first point at which public vehicles can traverse the roads constructed as a result of the action.
Original dated 24/9/2019	Pest abundance means the number, composition and distribution of non-native vertebrate animals known to predate on the Black-breasted Button-quail or the Koala , as determined in a field survey over the entire Koala offset areas and Black-breasted Button-quail offset area undertaken by a suitably qualified person using a scientifically robust and repeatable methodology over a timeframe that serves as a sound basis for comparison to data acquired to demonstrate achievement of the milestone required under condition 12.f.
Original dated 24/9/2019	Pineapple zamia means Pineapple zamia (<i>Macrozamia pauli-guilielmi</i>) listed as a threatened species under the EPBC Act .
Original dated 24/9/2019	Plan(s) means any of the documents required to be prepared, approved by the Minister , and/or implemented by the approval holder and published on the website in accordance with these conditions (includes action management plans and/or strategies).
Original dated 24/9/2019	Protected matter(s) means the following listed threatened species and ecological communities protected under a controlling provision in Part 3 of the EPBC Act for which this approval has effect: <ul style="list-style-type: none"> • Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) (<i>Phascolarctos cinereus</i> (combined populations of Qld, NSW and the ACT)); • Black-breasted Button-quail (<i>Turnix melanogaster</i>); • Pineapple zamia (<i>Macrozamia pauli-guilielmi</i>); • Lowland Rainforest of Subtropical Australia.
Original dated 24/9/2019	Quality means a measure, as determined by a suitably qualified person , of site condition, site context and species individual or population persistence or species stocking rate calculated in accordance with the requirements of the EPBC Act offsets assessment guide or other biocondition assessment process agreed by the Department . The assessment process must use a scientifically robust and repeatable methodology over a timeframe that serves as

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	a sound basis for comparison to baseline data acquired to demonstrate achievement of relevant milestones required in conditions 3, 12 and 13.
Original dated 24/9/2019	Riparian area means the areas of Lowland rainforest along Six Mile Creek as identified in the map at <u>Attachment G</u> .
Original dated 24/9/2019	Seedling Pineapple zamia means Pineapple zamia plants that are not adult Pineapple zamia plants.
Original dated 24/9/2019	Sensitive ecological data means data as defined in the Department's Sensitive Ecological Data – Access and Management Policy V1.0 . (2016).
Original dated 24/9/2019	Shapefile(s) means an ESRI shapefile format used for storing location and attributes information of geographic features. Shapefiles must contain '.shp', '.shx', '.dbf' files and a '.prj' file that specifies the projection/geographic coordinate system used. Shapefiles should also include an '.xml' metadata file that describes the shapefile for discovery and identification purposes.
Original dated 24/9/2019	Suitably qualified person means a person who has professional qualifications, training, skills and at least three (3) years of relevant experience specific to locating, identifying and conserving the protected matters that are subject to this approval and can give authoritative independent assessment, advice and analysis specific to the protected matters using the relevant protocols, standards, methods and/or literature. If the person does not have appropriate professional qualifications, the person must have at least five (5) years of relevant experience specific to locating, identifying and conserving the protected matters that are subject to this approval and can give authoritative independent assessment, advice and analysis specific to the protected matters using the relevant protocols, standards, methods and/or literature.
Original dated 24/9/2019	Threshold criteria means the key diagnostic characteristics and condition thresholds used to define Lowland rainforest as described in the Threatened Species Scientific Committee (2011). <i>Commonwealth Listing Advice on Lowland Rainforest of Subtropical Australia</i> . Department of Sustainability, Environment, Water, Population and Communities, Canberra.
Original dated 24/9/2019	Translocation site means the area adjacent to Curra Creek South Branch as shown as 'MPG Translocation Site' in the map at <u>Attachment D</u> .
Original dated 24/9/2019	Viable Pineapple zamia plant means an adult Pineapple zamia plant or seedling Pineapple zamia plant deemed by a suitably qualified person to be suitable for translocation from the impact site to the translocation site .
Original dated 24/9/2019	Website means a set of related web pages located under a single domain name attributed to the approval holder and available to the public.
Original dated 24/9/2019	Weed infestation means the abundance, composition and distribution of non-native flora species known to restrict the movement or adversely impact on available habitat of the Black-breasted Button-quail and/or the Koala across the landscape, as determined by a field survey over the entire Koala offset areas and Black-breasted Button-quail offset area undertaken by a suitably qualified person using a scientifically robust and repeatable methodology over a timeframe that serves as a sound basis for comparison to data acquired to demonstrate achievement of the milestones required under condition 12.c.



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LEGEND

- Town
- 1 km Change
- Railway
- Watercourses
- Fauna Connectivity Structure
- Survey Area
- Protected Areas
- EPML/Coastal Threatened Fauna Records
- Koala (Record)
- Koala (Scarcities/Split)
- Koala Evidence Present (UBC)
- Koala Habitat to cut-cut
- Habitat Critical to the Survival of the Koala

Scale

0 0.125 0.25 0.5 0.75 1 Kilometres

Map Projection Universal Transverse Mercator
GDA 2020 10M UTM Zone 55S

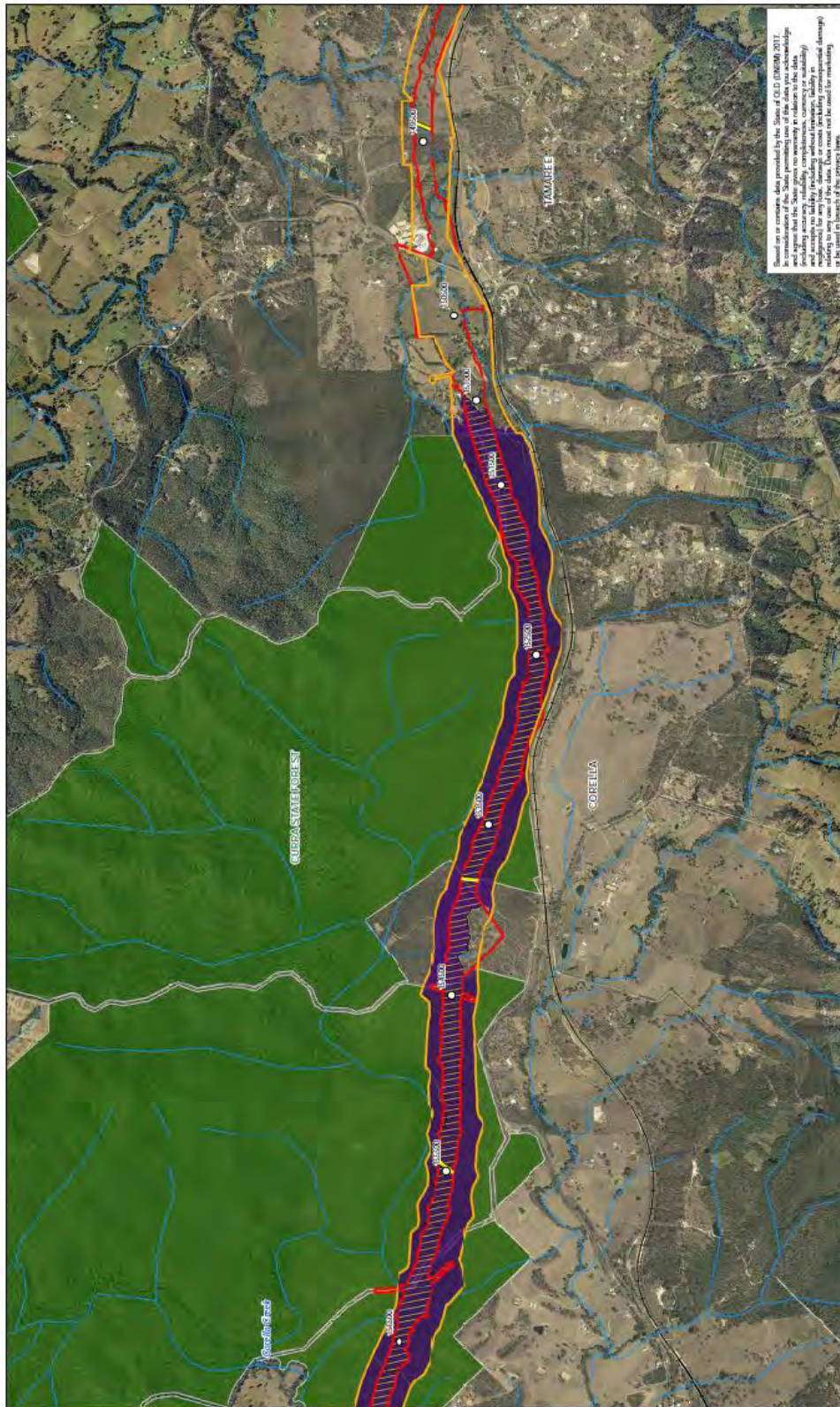
Job Number 41-29914
Revision 0
Date 11 Aug 2020

Figure 3
Sheet 1 of 4

Department of Transport and Main Roads
Bruce Highway Corridor to Curra
(Section D, Woodnum to Curra)

Koala records and habitat
E 1600000 Parkway Bridge QLD 4575 Australia T 617 5413 9100 F 617 5413 9199 E tdm@tma.qld.gov.au W www.tma.qld.gov.au

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Department of Transport and Main Roads
 Bruce Highway Corridor to Curra
 (Section D: Woodlum to Curra)

Figure 3
Sheet 2 of 4

Koala records and habitat

Job Number: 41-29914
 Revision: 0
 Date: 11 Aug 2020

E: Innovation Parkway (Interps) QLD 4675 Australia T: 61 7 5413 8100 F: 61 7 5413 8100 E: tmo@mainroads.com W: www.qld.gov.au

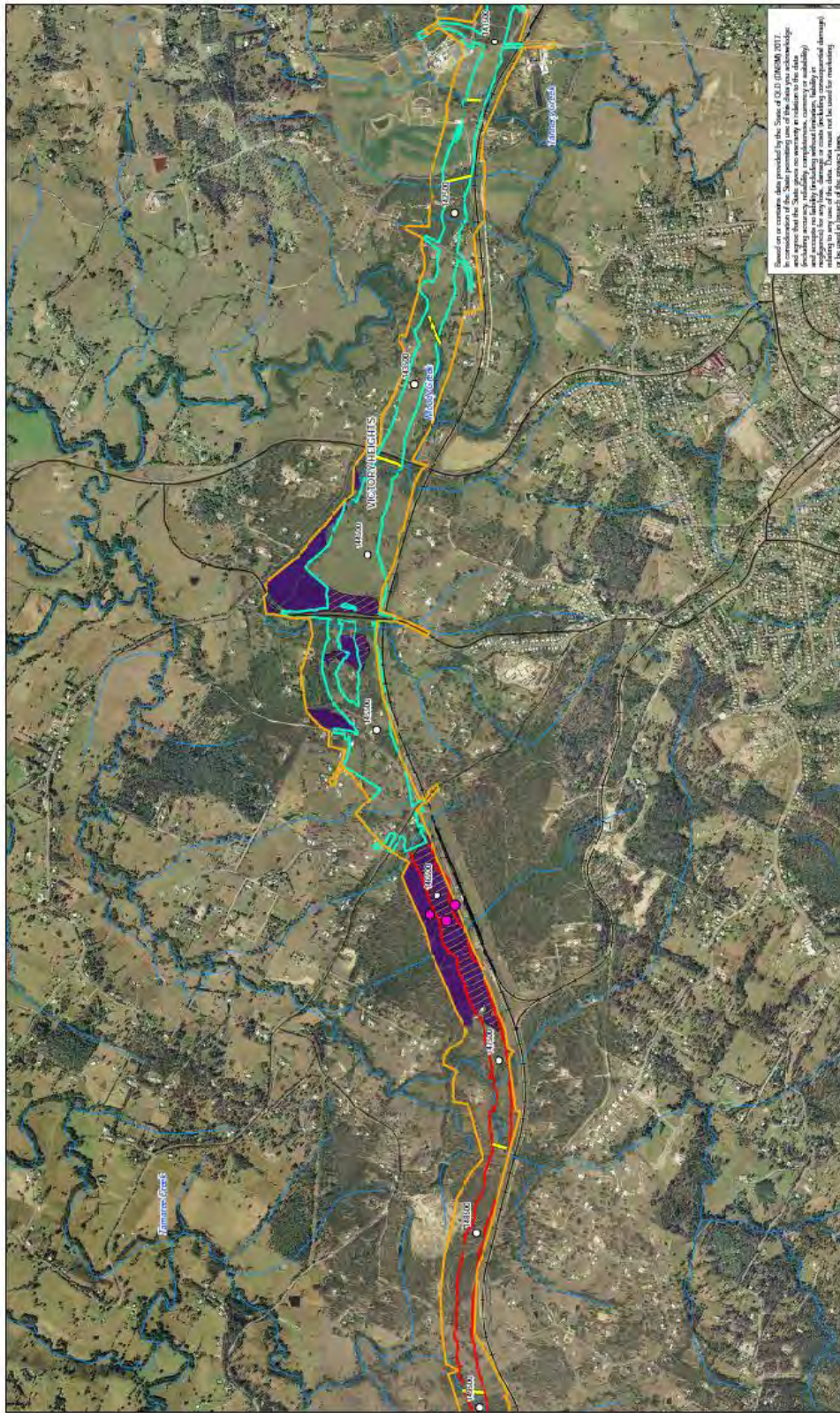
Legend:

- Town
- 1 km Change
- Roadway
- Watercourse
- Fauna Connectivity Structure
- Survey Area
- Protected Areas
- ERM/USCOTs Threatened Fauna Records
- Koala (Record)
- Koala (Scratchpad/Scp)
- Koala Evidence Percent (USC)
- Koala Habitat to the East
- Habitat Critical to the Survival of the Koals

Metadata:

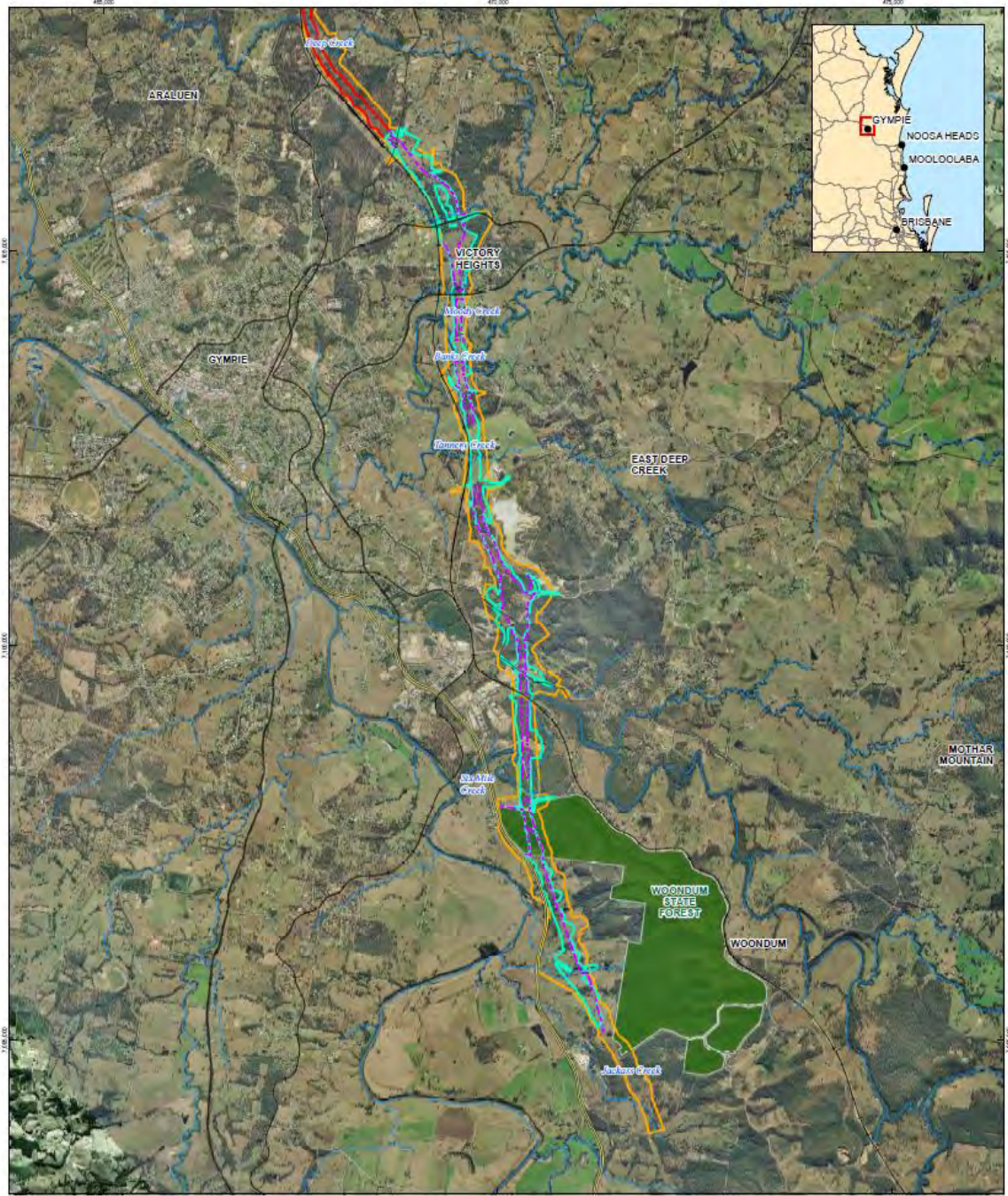
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- Scale: 0, 0.125, 0.25, 0.5, 0.75, 1 Kilometres
- Map Projection: Universal Transverse Mercator
- Grid: GDA 1994 MGA Zone 55
- Job Number: 41-29914
- Revision: 0
- Date: 11 Aug 2020

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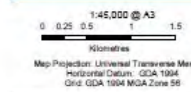
Original dated 24/9/2019

Attachment C1 — fauna exclusion fencing



- LEGEND**
- Watercourse
 - Local Connector Road
 - Contract 2
 - Railway
 - Street/Local Road
 - Survey Area
 - Highway
 - Project Area
 - Protected Areas
 - Secondary Road
 - Contract 1
 - Fauna Exclusion Fencing

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Department of Transport and Main Roads
Bruce Highway – Cooroy to Curra
(Section D: Woondum to Curra)

Job Number | 41-29914
Revision | 0
Date | 21 Feb 2019

Contract 1 - Fauna Exclusion Fencing Figure 1-1

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Data source: OA: Tows (2014); TMR: Aerial Imagery (2015); Survey Area (2016); DNRMP: Railway, Watercourse (2014); Road (2015); GHD: Project Area (March 2017); Fauna Fence (2018). Created by: JN

Original dated 24/9/2019

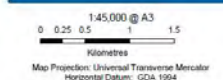
Attachment C2 — fauna exclusion fencing



LEGEND

- Watercourse
- Local Connector Road
- Contract 2
- Railway
- Survey Area
- Highway
- Protected Areas
- Secondary Road
- Contract 1
- Fauna Exclusion Fencing

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Department of Transport and Main Roads
Bruce Highway – Cooroy to Curra
(Section D: Woondum to Curra)

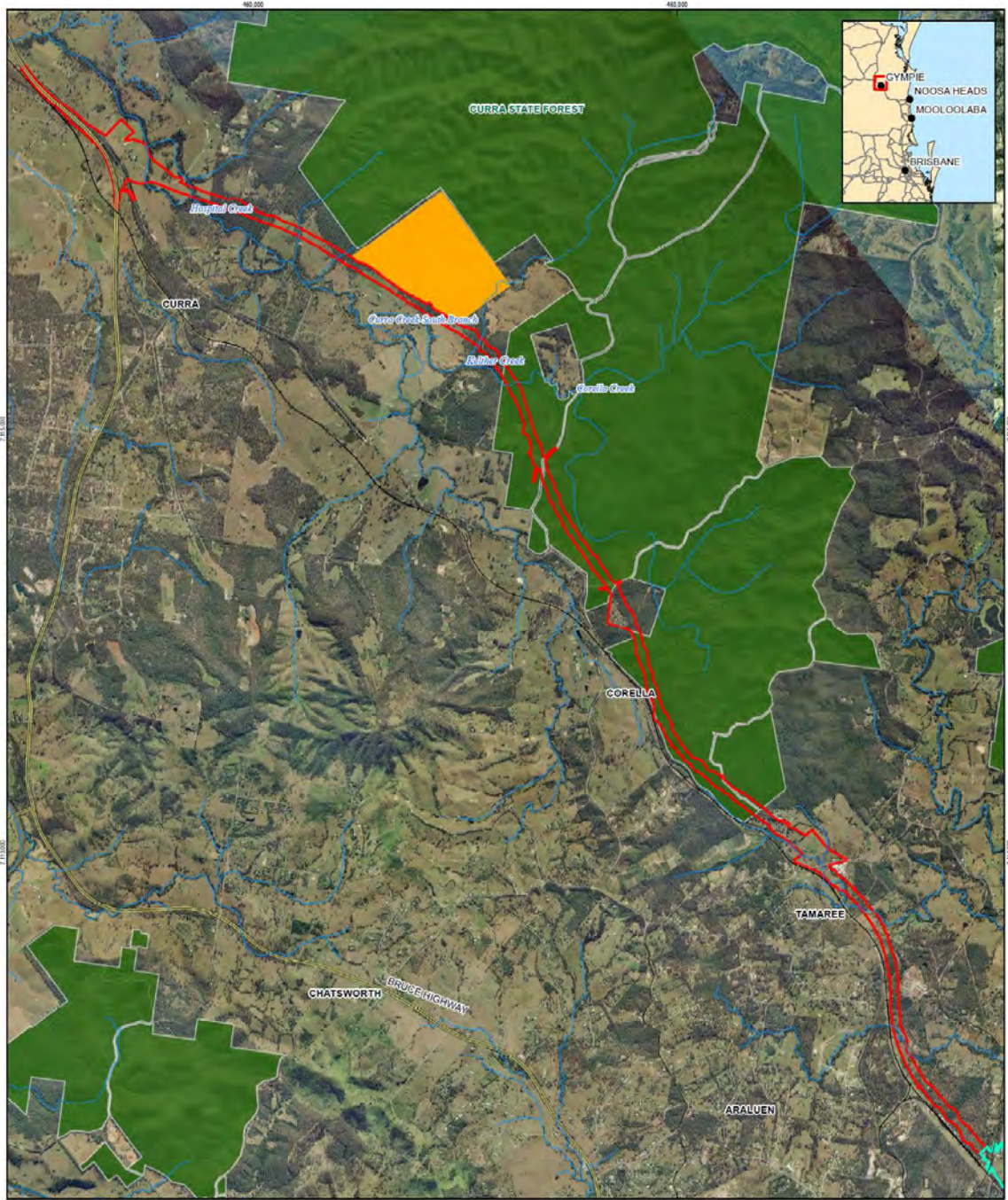
Job Number 41-29914
Revision 0
Date 20 Feb 2019

Contract 2 - Fauna Exclusion Fencing Figure 1-2

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Data source: DA, Town (2014), TMR, Aerial Imagery (2016), Survey Area (2016), DFRM, Railway, Watercourse (2014), Road (2016), GHD, Project Area (March 2017), Fauna Fence (2019). Created by: NN

Original dated 24/9/2019

Attachment D — map of translocation site



LEGEND

Town	Secondary Road	Project Area	MPG Translocation Site
Watercourse	Local Connector Road	Contract 1	MPG - Macrocnema pauli-guilelmi
Railway	Street/Local Road	Contract 2	
Highway	Protected Areas		

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<p>1:42,000 @ A3</p> <p>Map Projection: Universal Transverse Mercator Horizontal Datum: GDA 1984 GMS: GDA 1994 MGA Zone 56</p>		<p>Department of Transport and Main Roads Bruce Highway – Cooroy to Curra (Section D: Woondum to Curra)</p>	<p>Job Number: 41-29914 Revision: 0 Date: 10 Aug 2020</p>
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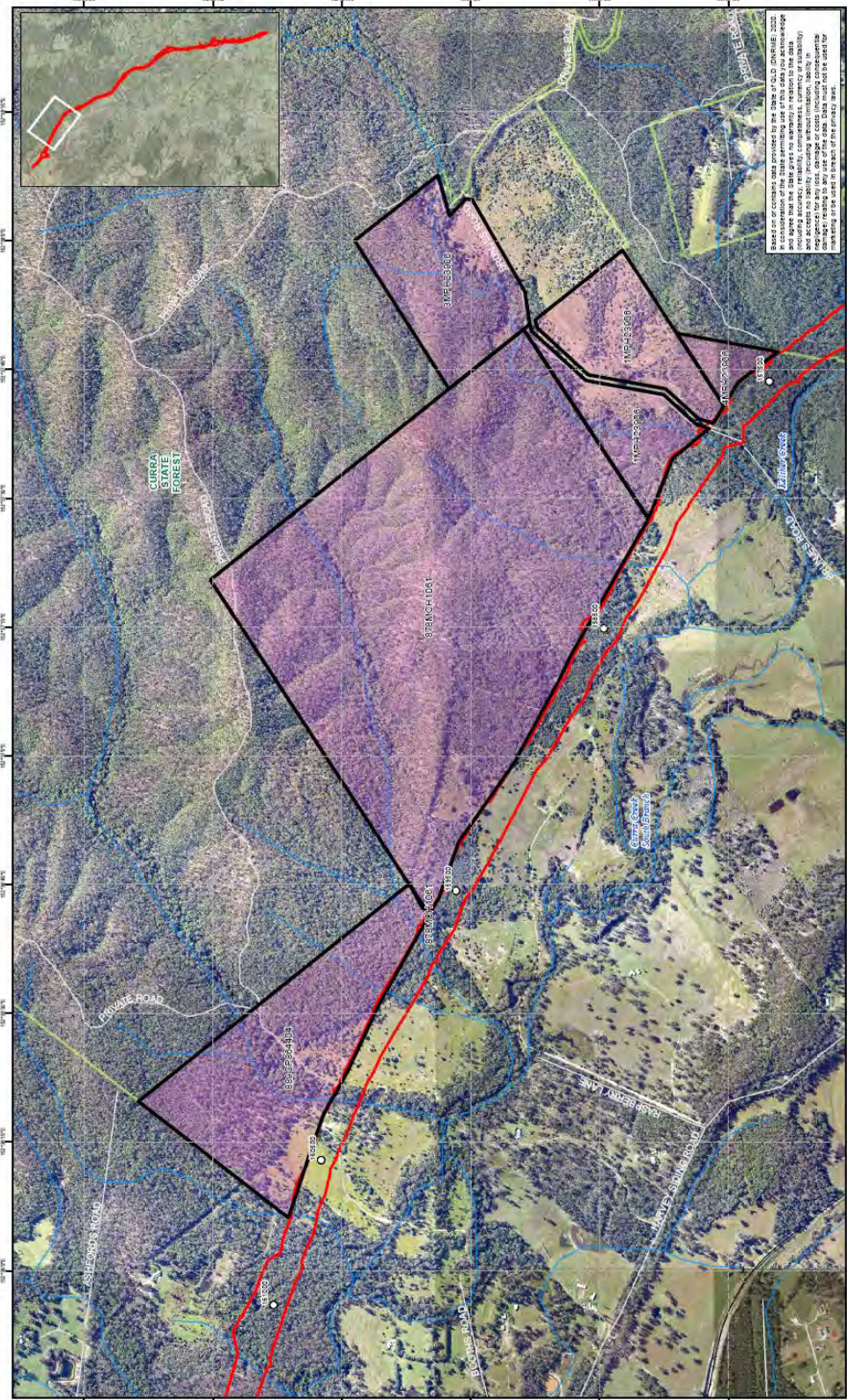
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Data source: GA: Town (2014); TMR: Aerial Imagery (2018); Survey Area (2018); DNRME: Railway, Watercourse (2014); Road (2018); GHD: Suitable Offset Sites (2018); Project Area (December 2018); Created by: SC

Locality Plan **Figure 1**

Variation dated 20/4/2020

Attachment E1 —Koala offset areas



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Department of Transport and Main Roads
 Bruce Highway Corridor to Curra
 (Section D: Woondum to Curra)

Job Number: 41-26914
 Revision: D
 Date: 16 Jun 2020

Koala Offset Areas
 Figure 1
 Page 1 of 3
 6 Innovation Parkway Stirling QLD 4575 Australia T 61 7 5413 8100 F 61 7 5413 8100 E hhd01@mail@ghd.com W www.ghd.com



LEGEND

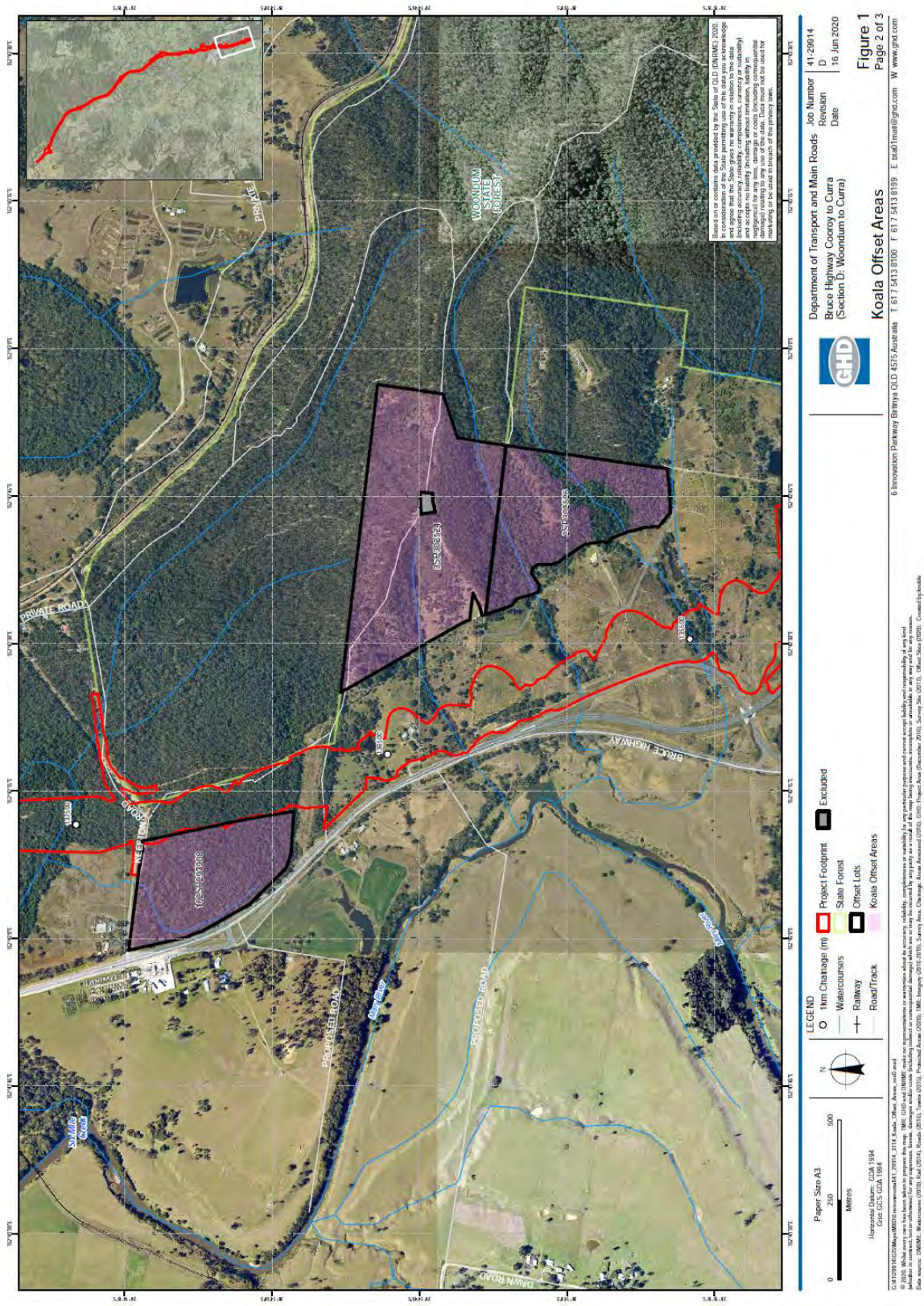
- Project Footprint
- State Forest
- Watercourses
- Railway
- Road/Track
- Offset Lots
- Koala Offset Areas

Scale: 0 to 800 METERS
 Horizontal Datum: GDA 1984
 UTM Zone: 55Q UTM 1984

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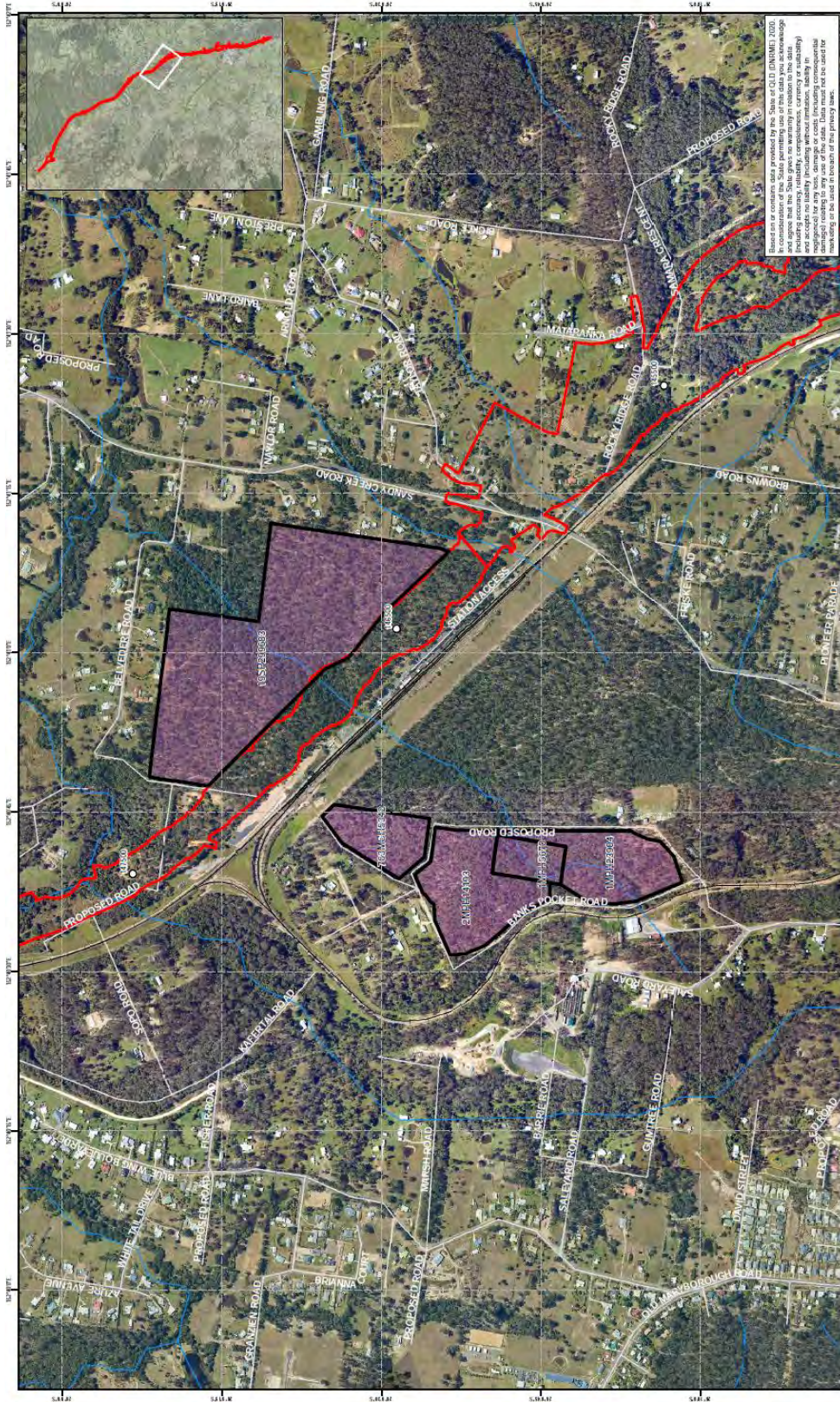
Variation dated 20/4/2020

Attachment E2 —Koala offset areas



Variation dated 20/4/2020

Attachment E3 —Koala offset areas



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LEGEND

- 1km Change (m)
- Watercourses
- Railway
- Road/Track
- Project Footprint
- State Forest
- Offset Lots
- Koala Offset Areas

Paper Size A3

Horizontal Datum: GDA 1984
GDA CGS 94 AUSTRALIA

Scale: 1:500

0 250 500 METRES

North Arrow

Department of Transport and Main Roads Job Number 41-29614
 Bruce Highway Corridor to Curra Revision D
 (Section D, Weonand to Curra) Date 16 Jun 2020

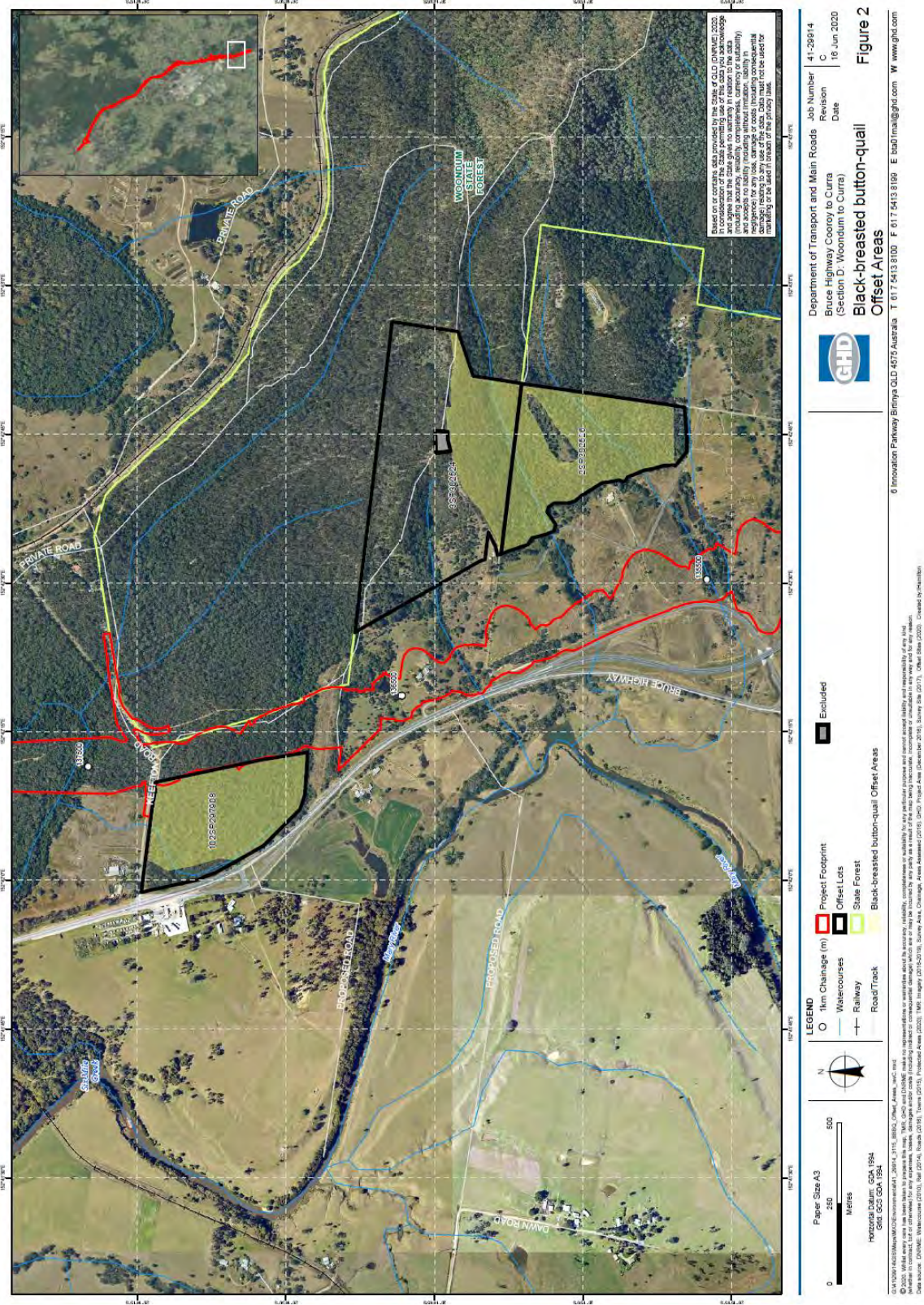
Koala Offset Areas Figure 1
Page 3 of 3

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CHD

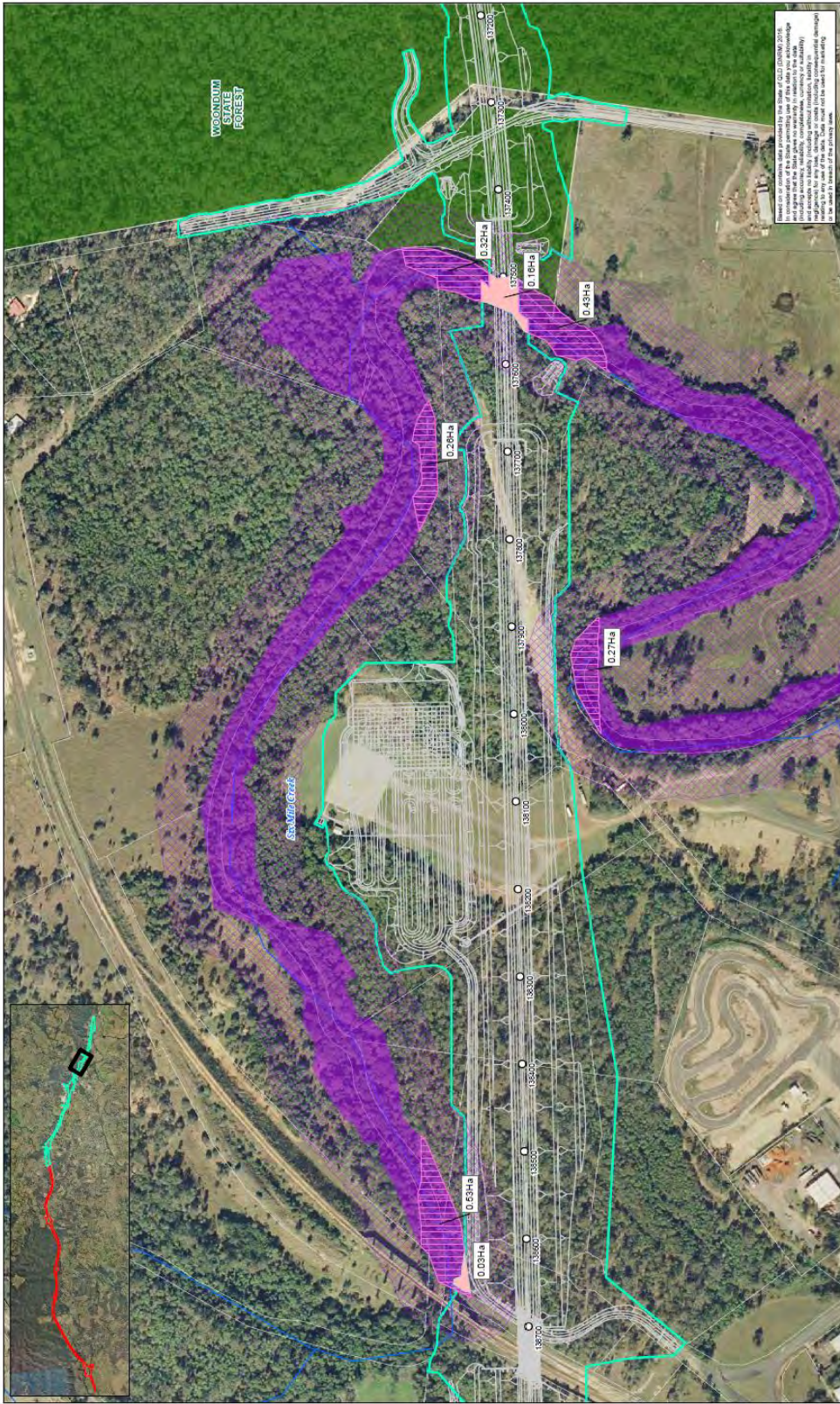
Variation dated 20/4/2020

Attachment F – Black-breasted Button-quail offset areas



Variation dated 20/4/2020

Attachment G –Six Mile Creek Lowland rainforest riparian area



Paper Size: A3
 0 25 50 100
 Metres
 Map Projection: Universal Transverse Mercator
 GDA 1984
 GDA 1984 MGA 94
 GDA 1984 MGA 94
 GDA 1984 MGA 94

LEGEND
 Highway
 Local Connector Road
 Street/Local Road
 Watercourse
 Cadastrel Boundary
 Protected Areas
 Project Area
 Contract 1
 Contract 2
 EPBC Act Impact Areas
 TEC (GHD 2016)
 TEC 50 m Buffer
 TEC Direct Impact
 TEC Indirect Impact

Department of Transport and Main Roads
 Bruce Highway Corridor to Curra
 (Section D: Woondum to Curra)
 Australia TEC - Impacts

Job Number: 41-28914
 Revision: E
 Date: 30 Mar 2020

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Figure 1

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