

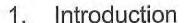
The Department of State Growth (the Department), is seeking to upgrade Evandale Road between the Breadalbane Roundabout and the Launceston Airport to improve traffic efficiency and safety. These works predominantly involve improvement of the current intersections for heavy vehicle movements and widening of some sections of the road.

This noise assessment has been prepared to ensure that the proposed design complies with the Department's Tasmanian State Road Traffic Noise Management Guidelines, Revision 1, October 2015, and determine if any mitigation works will be required at nearby residences.

Noise logging conducted in late 2018 for a post construction noise assessment of the Midland's Highway duplication between Breadalbane and Perth was used to validate the noise model for existing traffic conditions.

Noise levels (with and without the road upgrade) were predicted for current traffic volumes and for the predicted traffic volume 10 years after the completion of the upgrade of the road. Modelling was carried out using using **SoundPlan8.1** environmental noise software, utilising the **CoRTN** traffic noise standard calculation method. The model was informed by traffic volume counting also carried out in late 2018.

The results of the noise modelling indicate that the upgrade of Evandale Road between the Breadalbane Roundabout and the Launceston Airport will have a negligible impact on the traffic noise levels in adjoining areas. The upgrade meets all noise related requirements of the Northern Midlands interim planning scheme.



The Department of State Growth (the Department), is seeking to upgrade Evandale Road between the Breadalbane Roundabout and the Launceston Airport to improve traffic efficiency and safety. These works predominantly involve improvement of the current intersections for heavy vehicle movements and widening of some sections of the road.

This noise assessment has been prepared to ensure that the proposed design complies with the Department's Tasmanian State Road Traffic Noise Management Guidelines, Revision 1, October 2015. and determine if any mitigation works will be required for nearby residences or to prevent excessive noise levels at the nearby Launceston Airport.

2. Traffic Noise Management Guidelines

The policies and procedures used by the Department to manage the impact of traffic noise generated by the roads for which they are responsible, are set out in the *Tasmanian State Road Traffic Noise Management Guidelines*, *Revision 1*, *October 2015*, *referred to hereafter as* "the guidelines". The guidelines reflect the principles and strategies of the *State Road Noise Strategy 2011* and the requirements of the *Environmental Management and Pollution Control Act 1994 (EMPCA)*. The guidelines describe how noise from new roads or road upgrades should be predicted and checked. It establishes key noise level limits that are to be used as design targets and as trigger levels for including noise mitigation measures in a road project, to minimise the noise impacts on neighbouring properties.

The guidelines also contain a detailed explanation of the concepts behind how noise behaves and the reasoning behind the management approach, written with a non-technical audience in mind.

Traffic Noise Measurement

Traffic noise constantly varies throughout the day and night depending on many factors such as the number, type and speeds of the vehicles, weather conditions, road surface conditions etc. For the purpose of managing the impact of traffic noise on the community, noise is measured 10 times a second over an extended period, of up to two or three weeks. This captures the variations in noise level. Various measures can be used to "condense" this data into a single number that summarises the impact of the noise.

For assessing noise from a road upgrade project, the $L_{A10 \, (18hour)}$ measure is used. This is defined as the noise level that is exceeded by 10% of all the noise levels recorded in an 18hour period starting at 6am and concluding at midnight. Traffic noise is commonly reported using this measure around the World (with a notable exception in NSW, who use Leq, which is similar to the average of the noise levels recorded.) The L_{A10} is inherently more sensitive to traffic noise, and less sensitive to other types of noise that occur in urban environments.

The guidelines reference the requirements of the DPIPWE *Noise Measurement Procedures Manual, 2008*, for the detailed methodology and equipment to be used for undertaking traffic noise measurements.

Normally measurements of traffic noise are made by placing a battery powered noise logger on a site, to continuously record noise levels, for two to three weeks. Under most circumstances this allows periods of strong wind or heavy rain which may generate sufficient noise to interfere with the recording to be cut out, while still leaving 5-week days of measurements, to calculate the L_{A10} measure from. Measurements are not made on weekends, public or school holidays when noise levels are generally lower than on week days.

Traffic Noise Criteria

For an upgrade to an existing road the guideline design target level is an L_{A10 (18hour)} of 63 dB(A). This is a commonly used target in Australia for new and upgraded roads. This noise level is to be measured 1 metre in front of the building façade most exposed to traffic. Tasmania has used this criterion for about 13 years. The sensitivity of people to noise is highly variable, so it is difficult to establish a practical, cost effective limit that will satisfy all people. Various studies have investigated the relationship between the level of annoyance in the community, with increasing noise levels, as shown in Figure 1 below, which is extracted from the guidelines. The 63 dB(A) limit lies approximately where 10% of the population could be expected to be "annoyed".

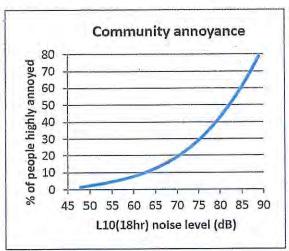


Figure 1 - Community annoyance vs noise exposure (from the guidelines)

Traffic Noise Mitigation

Where traffic noise at a residence exceeds an L_{A10 (18hour)} of 63 dB(A), the guidelines call for the implementation of "noise mitigation" measures to reduce the noise levels reaching inside the residence. For new projects, the criteria are applied including an allowance for ten years of traffic growth, after the completion of the project. This could be achieved by various means, including building a "noise wall" along the edge of the road, using a quieter road pavement surface or by providing the house owner with "acoustic treatment" of the house to reduce the noise that penetrates inside. Acoustic treatments can consist of double glazing, tighter fitting door seals, additional ceiling insulation etc. Further detail on noise mitigation measures is found in the guidelines.

If the traffic noise at a residence already exceeds an $L_{A10 \text{ (18hour)}}$ of 63dB(A), prior to the construction, the guidelines do not call for mitigation measures unless the predicted noise level, 10 years after completion of a project, exceeds 68 dB(A). The guideline allows for mitigation to be provided for any sensitive receiver within the project area, that is predicted to exceed 68 dB(A), 10 years after completion, irrespective of what the existing noise level is prior to construction.

For a "greenfield" project, that is a new road constructed in an area where there was previously little traffic and very low existing traffic noise levels, the 63 dB(A) design level may constitute a large increase in noise levels, and hence a significant loss of amenity. To address this, an additional trigger level for offering noise mitigation is provided. The trigger level is reached if the $L_{A10 \, (18hour)}$ traffic noise level exceeds the LAEQ (16hour) measure of ambient noise by more than 15 dB(A).

The Department will only consider noise mitigation in particular circumstances irrespective of the measured or predicted noise levels. The decision-making process for determining eligibility is defined in detail in Tables A to H of Part B in the guidelines. The intent is to balance competing needs of the community in a fair and transparent way.

Predicting Traffic Noise Levels

At the design stage of a new road project, the noise levels can be predicted using a standard method developed by the UK Department of Environment's Calculation of Road Traffic Noise (CoRTN). This is typically implemented using environmental noise modelling software, allowing noise levels at multiple properties to be efficiently calculated. Section 6.4 of the guidelines describes the detailed requirements for using this method.

3. Noise Assessment

3.1 Noise Measurements

This noise assessment was prepared during the period of COVID19 restrictions. Traffic volume and therefore traffic noise was significantly lower that normal, during this period, so new noise measurements were not undertaken. Instead traffic noise measured at one location in 2018, following the completion of the Perth to Breadalbane Midland Highway duplication project were used to verify the accuracy of the Evandale Road model. These measurements were made by a logger located on the Midland Highway, opposite 41 Summit Drive between October 28 and 30, 2018.

Table 1 - Noise Measurement Location Details

Site	Details	
Address:	Midland Highway, opposite 41 Summit Drive.	
MGA Coordinates	514988, 5401709	
Logger Site Description:	In between old and new highways, opposite Summit Drive	
Logger Type:	Rion NR42	

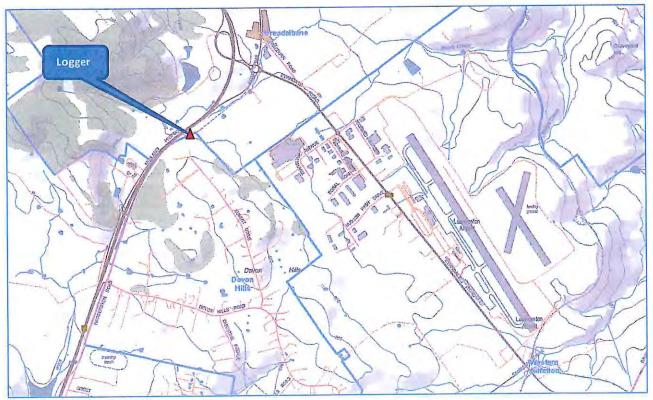
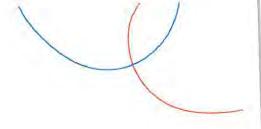


Figure 2 - Noise Logger Location



3.2 Traffic Noise Modelling

Methodology

Noise modelling was carried out in accordance with the methodology required by the Department Guidelines, using the **CoRTN** standard methodology, implemented on **SoundPLAN 8.1** environmental noise modelling software. This standard takes into account the effect of traffic volume, traffic speed, mix of heavy and light vehicles, road surface characteristics and road gradient. From these factors the noise level at the centreline of the road is calculated. The software then calculates the reduced noise level that occurs at other locations, which are referred to as "receivers". The noise reduction depends on the distance, the terrain, the weather, how "soft" or "hard" the ground is and the effect of solid obstacles like buildings that may block some of the noise or reflect noise towards the receiver. The layout of the model is shown in Figure 3 below.

Model Inputs - Traffic Volumes

Traffic counting carried out during 2014 and 2018 for the pre and post construction noise assessments of the Midland Highway upgrades between Perth and Breadalbane were used to inform the model. The model includes noise from traffic on the Midland Highway as this has a significant effect on noise levels at properties at the northern end of Evandale Road, when combined with nose form traffic on Evandale Road itself. For completeness noise from traffic on Devon Hills Road and Summit Drive is also included.

The percentage heavy vehicles used was 14%. An annual growth rate of 0.5% was used for Devon Hills Road, with a rate of 1.5% used elsewhere to predict the traffic volume in 2033 which is ten years after the anticipated completion of construction.

Table 2 – Average Daily Weekday 18hour Traffic Volumes used for Noise Modelling

Street	2018 18Hr Traffic Volume Existing	2033 18Hr Traffic Volume Post Construction	
Midland Highway Between Launceston and Perth, ziplanes, ontakes and offtakes	10475	12832	
Offtake from Launceston to Breadalbane	1180	1446	
On take from Breadalbane to Launceston	3700	4533	
Midland Highway South of Breadalbane (to Perth)	12272	15033	
South Zip lane from Breadalbane to Perth	1797	2202	
Evandale Road	9016	11045	
Hobart Road	5045	6181	
A CONTRACTOR OF THE CONTRACTOR	212	228	
Devon Hills Road Summit Drive	75	92	

Model Inputs - Other Parameters

Road Surface Factors: The existing road pavements were assumed to be a 7mm/14mm chip spray sealed surface (+ 4.0 dB(A)) along the Midlands Highway South of the Breadalbane intersection, with all other surfaces including slip lanes assumed to have a dense graded asphalt surface (+0 dB(A)). The new Evandale Road surface is to be dense graded asphalt (+0 dB(A)).

CORTN Correction Factors: Correction factors of -1.7dB for results at building facades and -0.7 dB for free field results, have been applied to the modelling results. These correction factors are commonly used in Australia to allow for differences between the Australian vehicle fleet and the UK fleet for which CoRTN was originally devised. An additional factor of +2.5 dB was applied to allow pitt&sherry ref: HB19503H009 Rep 31P Noise Assessment Rev01.docx/AS 5

for the measurement positions being 1m in front of a building façade.

Ground Absorption: Various different ground absorption factors were used to improve local accuracy in sections of the model. These factors included "100% hard" for industrial and built up areas and "60% soft" for low density residential, grass and farmland areas.

Buildings: Existing buildings are included in the model. Sound reflections and shielding caused by buildings were calculated by the software. Building footprints were sourced from *theList*.

Traffic Speed: Traffic speeds were set in the model to 60kmh on Devon Hills Road and Summit Drive, 80kmh through the Breadalbane intersection, and along Evandale and Hobart Roads, and 110kmh along the Midland Highway, reflecting existing speed limits.

Terrain/Road Geometry: Existing terrain topography was obtained from 10 metre contour data sourced through *theList*. 3D design modelling geometry for the road upgrade, was merged with this for the upgraded road cases.

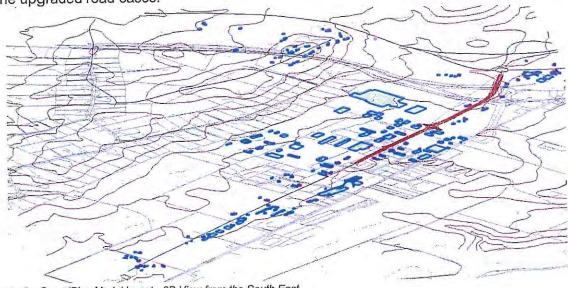


Figure 3 - SoundPlan Model layout - 3D View from the South East

Model Validation

Standard practice in modelling traffic noise, is to validate the noise levels predicted by the model at a number of receiver locations. This is done by comparing the modelled noise levels, with the actual noise levels measured by noise loggers set up at the same locations. The guidelines require that the difference between each of the measured results and the modelled results be no more than +/- 2 dB(A).

Table 3 below compares the results modelled from the November 2018 traffic data (seasonally adjusted for February / March) for the existing road, with the noise logger results obtained. It can be seen that the difference between the modelled and logged results does not exceed +/- 2 dB(A).

Table 3 - Comparison of Modelled and Measured Results (dB(A).

Measure	Logger 7	
Logger	70.4	
Model	69.7	
Error	-0.7	

3.3 Modelling Results

Table 4 below shows the noise level results predicted by the model.

L_{A10,18hr} results were calculated for various properties located within/nearby to the project area. Receivers were included on the most exposed faces of buildings to ensure an accurate and representative result was calculated.

Table 4 has results for four modelling scenarios; the existing situation in 2018, the situation in 2033 without any changes to the road and the situations with the upgraded road, using 2018 and 2033 traffic data. The right hand column indicates if the guideline trigger levels of 63 or 68 dB(A) have been met or if the noise level has gone down as a result of the upgrade. Results exceeding 63 or 68 dB (A) are shaded pink or yellow respectively. Commercial properties such as shopping centres, warehouses and industrial facilities are not subject to these provissions.

Figure 4 and Figure 5 are noise level "contour maps" of the surrounding area, showing the variation in traffic noise level from the highway, for the existing 2018 and upgraded 2033 scenarios.

It can be seen from the results that the road upgrade will have a neglibile effect on the existing traffic noise levels in the area, due to closely following the existing route, with only minor changes at intersections.

Eligibility for Noise Mitigation

There are no residential properties in the project area, where the predicted noise level exceeds the 63 or 68 dB(A) criterium

Table 4 - Modelling Results LA10,18hr dB(A)

Receiver	Use	Existing 2018	Existing 2033	As Built 2018	As Built 2033	Trigger
11 Boral Road	Commercial	61.6	62.5	59.3	60.1	Down
57 Evandale Road	Commercial	60.8	61.6	57.3	58.1	Down
60 Evandale Road	Residential	68.2	69.0	66.2	67.0	Down
62 Evandale Road	Residential	68.0	68.9	66.6	67,4	Down
81 Evandale Road	Residential	60.8	61.6	59.6	60.4	Down
129 Evandale Road	Commercial	64.5	65.3	62.2	63.1	Down
135 Evandale Road	Commercial	62.8	63.6	60.4	61.3	Down
139 Evandale Road	Commercial	66.0	66.8	64.2	65.0	Down
149 Evandale Road	Commercial	65.5	66.3	63.4	64.3	Down
188 Evandale Road	Commercial	69.6	70.5	69.6	70.4	na
190 Evandale Road	Commercial	69.6	70.4	69.6	70.4	na
864 Hobart Road	Residential	50.4	51.3	50.3	51.1	(4)
1A Hudson Fysh Drive	Commercial	62.3	63.2	61.5	62.4	
1B Hudson Fysh Drive	Commercial	62.1	62.9	61.6	62.5	100
2 Hudson Fysh Drive	Commercial	62.1	62.9	60.4	61.3	Down
12 Johns Street	Commercial	61.2	62.1	58.8	59.7	Down
16 Johns Street	Commercial	62.3	63.2	59.9	60.7	Down
18 Johns Street	Commercial	65.2	66.0	62.8	63.6	Down
16662 Midland Highway	Residential	55.4	56.3	53.7	54.5	Down
1 Raeburn Road	Residential	54.8	55.7	54.8	55.7	-
3 Raeburn Road	Residential	54.8	55.7	54.9	55.7	-
5 Raeburn Road	Residential	54.3	55.1	54.1	55.0	L. Š
10 Raeburn Road	Commercial	59.3	60.1	59.5	60.3	H.
18 Raeburn Road	Residential	57.7	58.6	57.6	58.4	(2)
24 Raeburn Road	Residential	58.9	59.7	58.0	58.8	Dowr
30 Raeburn Road	Residential	62.6	63.5	60.0	60.8	Dowr
51 Raeburn Road	Residential	61.2	62.1	56.9	57.7	Dowr
21 Richard Street	Commercial	65.4	66.2	63.2	64.1	Dowr
1 Translink Avenue	Commercial	61.3	62.1	58.7	59.5	Dowr

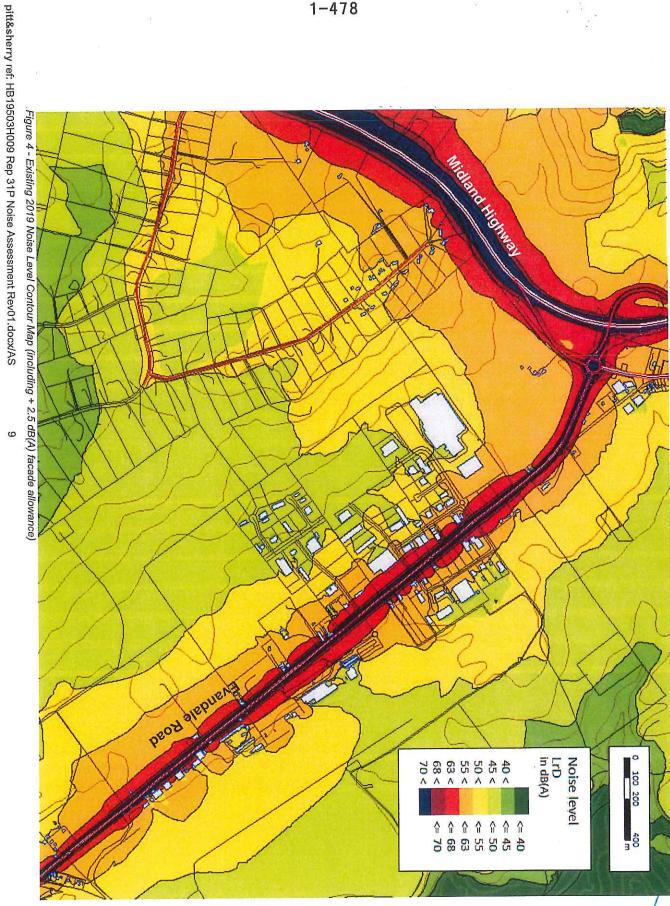


Figure 5 - With Bypass 2032 Noise Level Contour Map (including + 2.5 dB(A) facade allowance) Peor alebreva LrD in dB(A) 45 \ 50 \ 55 \ 63 \ 70 \ \ Noise level 0 100 200 4 40 4 45 4 50 4 55 6 63 4 68 4 8 E

6

4. Planning Scheme Compliance

The upgrade of the road will require the use of some additional land adjoining the existing road reserve. This triggers the requirement for a development application addressing the requirements of the Northern Midlands Interim Planning Scheme 2015, including the noise related provisions within the sections reproduced below.

Rural Resource Zone

26.3.1 Discretionary Uses if not a single dwelling

Objective

- (a) To provide for an appropriate mix of uses that support the Local Area Objectives and the location of discretionary uses in the rural resources zone does not unnecessarily compromise the consolidation of commercial and industrial uses to identified nodes of settlement or purpose built precincts.
- (b) To protect the long term productive capacity of prime agricultural land by minimising conversion of the land to non-agricultural uses or uses not dependent on the soil as a growth medium, unless an overriding benefit to the region can be demonstrated.
- (c) To minimise the conversion of non-prime land to a non-primary industry use except where that land cannot be practically utilised for primary industry purposes.
- (d) Uses are located such that they do not unreasonably confine or restrain the operation of primary industry uses.
- (e) Uses are suitable within the context of the locality and do not create an unreasonable adverse impact on existing sensitive uses or local infrastructure.
- (f) The visual impacts of use are appropriately managed to integrate with the surrounding rural landscape.

Acceptable Solution	Performance Criteria		
A4 A1 If for permitted or no permit required uses.	P4 It must be demonstrated that: (a) emissions are not likely to cause an environmental nuisance; and		
	 (b) primary industry uses will not be unreasonably confined or restrained from conducting normal operations; and (c) the capacity of the local road network can accommodate the traffic generated by the use. 		

Assessment

The change in traffic noise level as a result of the road upgrade is not sufficient to cause environmental nuisance at any nearby locations. The project meets the requirement of P4(a).





E4.7.1 Development on and adjacent to Existing and Future Arterial Roads and

Railways

Objective: To ensure that development on or adjacent to category 1 or 2 roads (outside 60km/h), railways and future roads and railways is managed to:

- ensure the safe and efficient operation of roads and railways; and
- allow for future road and rail widening, realignment and upgrading; and
- c) avoid undesirable interaction between roads and railways and other use or development.

Acceptable Solution	Performance Criteria		
Acceptable Solution A1 The following must be at least 50m from a railway, a future road or railway, and a category 1 or 2 road in an area subject to a speed limit of more than 60km/h: a) new road works, buildings, additions and extensions, earthworks and landscaping works; and b) building areas on new lots; and c) outdoor sitting, entertainment and children's	Performance Criteria P1 Development including buildings, road works, earthworks, landscaping works and level crossings on or within 50m of a category 1 or 2 road, in an area subject to a speed limit of more than 60km/h, a railway or future road or railway must be sited, designed and landscaped to: a) maintain or improve the safety and efficiency of the road or railway or future road or railway, including line of sight from trains; and b) mitigate significant transport-related environmental impacts,		
play areas	including noise, air pollution and vibrations in accordance with a report from a suitably qualified person; and c) ensure that additions or extensions of buildings will not reduce the existing setback to the road, railway or future road or railway; and d) ensure that temporary buildings and works are removed at the applicant's expense within three years or as otherwise agreed by the road or rail authority.		

Assessment

The change in traffic noise level as a result of the road upgrade is not sufficient to cause any increased environmental impact at any nearby locations. The project meets the requirement of P1(b).

Translink Specific Area Plan

F1.4.12 Environmental Quality

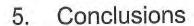
Objective:

- (a) To ensure that development does not result in environmental harm to the local area
- (b) To ensure that development does not impact on the operational safety of the Launceston Airport.

Acceptable Solution	Performance Criteria
A1	P1
Emissions must not cause a hazard to the safe operation of Launceston Airport.	No performance criteria

Assessment

The change in traffic noise levels is not sufficient to cause a hazard to the safe operation of Launceston Airport (A1).



The results of the noise modelling indicate that the upgrade of Evandale Road between the Breadalbane Roundabout and the Launceston Airport will have a negligible impact on the traffic noise levels in adjoining areas. The upgrade meets all noise related requirements of the Northern Midlands interim planning scheme.

pitt&sherry

Evandale Main Road Duplication

Noise Assessment

Contact

Douglas Ford 03 6323 1930 dougford@pittsh.com.au Pitt & Sherry (Operations) Pty Ltd ABN 67 140 184 309

Phone 1300 748 874 info@pittsh.com.au pittsh.com.au

Located nationally — Melbourne

Sydney Brisbane Hobart Launceston Newcastle Devonport

Wagga Wagga

Appendix E

Traffic Impact Assessment

pitt&sherry

Evandale Main Road Duplication – Launceston Airport to Breadalbane

Traffic Impact Assessment

Prepared for

Department of State Growth

Client representative

Trevor Gibson

Date

22 June 2020

Rev 00



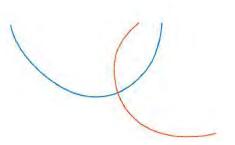
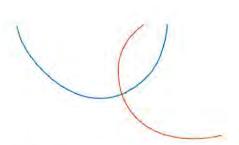


Table of Contents

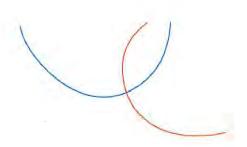
1.	Introd	uction		6
	1.1	Backg	round	6
	1.2	Traffic	Impact Assessment Scope	6
2.	Existi	ng Con	ditions	6
	2.1	Traffic	Impact Assessment Study Length	6
	2.2	Surrou	unding Road Network	
		2.2.1	Evandale Main Road	7
		2.2.2	Translink Avenue	8
		2.2.3	Richard Street	9
		2.2.4	Hudson Fysh Drive	9
		2.2.5	Launceston Airport Access Road	10
	2.3	Surrou	unding Intersections	10
	2.4	Existin	ng Traffic Volumes	10
		2.4.1	Traffic Data Collection	10
		2.4.2	Growth Rates	11
		2.4.3	Summary of Traffic Volumes	11
	2.5	Existin	ng Intersection Performance	12
		2.5.1	Traffic Modelling Software	12
		2,5,2	Traffic Modelling Layouts	13
		2.5.3	Vehicle Mix	14
		254	Traffic Modelling Results	14
	2.6	Predic	cted Intersection Operation in 2021 and 2031 (with existing intersection layouts)	16
		2.6.1	Future Traffic Data	16
		2.6.2		16
		2,6,3		19
		2.6.4		21
	2.7	Road	Safety	26
3.	Dov	oloomor	nt Proposal	26
J,		Slopine	view	26
	3.1	Oven	viewdale Main Road Upgradedale Main Road Upgrade	27
	3.3	Restr	ricted Access	27
4.		fic Asse	essment	29
***		Tanffi	ic Impact Assessment	29
	4.1	4.1.1		29
		4.1.1		29
		4.1.2	Safety Implications	32
	4.2 4.3	Traffi	ic Management/Impacts During Construction	
	4.4	Parki	ing Assessment	.,,32
5.	Plan	nnina Sa	cheme Assessment	34
6.	Cor	iclusion.		



List of figures

Figure 1: Site Locality Including Land Zoning (Aerial Source: https://maps.thelist.tas.gov.au/listmap/app/list/map)	7
Figure 2: Evandale Main Road facing north-west (Source: Google Earth November 2016)	
Figure 3: Evandale Main Road facing south-east (Source: Google Earth November 2016)	8
Figure 4: Translink Avenue facing north-east (Source: Google Earth January 2010)	8
Figure 5: Translink Avenue facing south-west (Source: Google Earth January 2010)	8
Figure 6: Richard Street facing south-west (Source: Google Earth January 2010)	9
Figure 7: Richard Street facing north-east (Source: Google Earth January 2010)	9
Figure 8: Hudson Fysh Drive facing north-east (Source: Google Earth January 2010)	9
Figure 9: Hudson Fysh Drive facing south-west (Source: Google Earth January 2010)	9
Figure 10: Launceston Airport Access Road facing north-east (Source: pitt&sherry file photograph)	.,10
Figure 11: Existing 2020 Traffic Volumes - AM Peak Hour	.,11
Figure 12: Existing 2020 Traffic Volumes - PM Peak Hour	12
Figure 13: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout SIDRA Modelling Layout	13
Figure 14: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout SIDRA Modelling Layou	it 13
Figure 15: Translink Avenue/ Richard Street/ Evandale Main Road Roundabout - Existing Operation AM Peak Hour LOS	14
Figure 16: Translink Avenue/ Richard Street/ Evandale Main Road Roundabout - Existing Operation PM Peak Hour LOS	
Figure 17: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout - Existing Operation AM Peak H	our
Figure 18; Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout - Existing Operation PM Peak H LOS	our
Figure 19: Additional Traffic Distribution – AM Peak Hour	
Figure 20: Additional Traffic Distribution – PM Peak Hour	18
Figure 21: 2021 Traffic Volumes - AM Peak Hour	19
Figure 22: 2021 Traffic Volumes - PM Peak Hour	20
Figure 23: 2031 Traffic Volumes - AM Peak Hour	20
Figure 24: 2031 Traffic Volumes - PM Peak Hour	21
Figure 25: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout - 2021 Operation AM Peak Hour LOS	22
Figure 26: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout - 2021 Operation PM Peak Hour LOS	22
Figure 27: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout - Operation 2031 AM Peak Hour LOS	22
Figure 28: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout - 2031 Operation PM Peak Hour LOS.	22
Figure 29: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout - 2021 Operation AM F Hour LOS	Peak
Figure 30: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout - 2021 Operation PM F Hour LOS	Peak
Figure 31: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout - Operation 2031 AM F	Peak
Figure 32: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout - 2031 Operation PM F Hour LOS	24
Figure 33: CHR Treatment at Boral Road/ Richard Street/ Evandale Road	28
Figure 34: Restricted access at Boral Road/ Richard Street/ Evandale Main Road – route options for right-turning vehicles (Aeri Source: https://maps.thelist.tas.gov.au/listmap/app/list/map)	
Figure 35; Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout SIDRA Modelling Layout	30
Figure 36: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout SIDRA Modelling La	yout
Figure 37: Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout - 2021 Operation AM Peak Hour LO	S30
Figure 38: Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout - 2021 Operation PM Peak Hour LO	S30
Figure 39: Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout - Operation 2031 AM Peak Hour LO	S31

Figure 40: Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout - 2031 Operation PM Peak Hour LOS	34
Figure 41: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout - 2021 Operation AM Peak Hour LOS	32
Figure 42: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout - 2021 Operation PM Peak Hour LOS	52
Figure 43: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout - Operation 2031 AM Peak Hour LOS	33
Figure 44; Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout - 2031 Operation PM Peak Hour LOS	33
List of tables	
Table 1: SIDRA Level of Service	
Table 2: Translink Avenue/ Richard Street/ Evandale Main Road Roundabout - Existing Operation SIDRA Results	14
Table 3: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout - Existing Operation SIDRA Rest	ılts 15
Table 4: Design Traffic Generation Breakdown for Industrial Estates	16
Table 5: Traffic Generation Estimates along Translink Avenue and Hudson Fysh Drive	17
Table 6: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout - 2021 and 2031 Operation SIDRA Resi	ults23
Table 7: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout – 2021 and 2031 Opera SIDRA Results	tion 25
Table 8: Summary of Crashes	
Table 9: Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout - 2021 and 2031 Operation SIDRA Re	sults 31
Table 10: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout – 2021 and 2031 Operation SIDRA Results	33
Table 11: E4.0 Road and Railway Assets Code Use Standards	
Table 12: E4.0 Road and Railway Assets Code Development Standards	35



Appendices

Appendix A — Concept Plans

Appendix B — SIDRA Results – Existing Layout Operation 2020

Appendix C — SIDRA Results – Existing Layout Operation 2021 and 2031

Appendix D — SIDRA Results – Proposed Layout

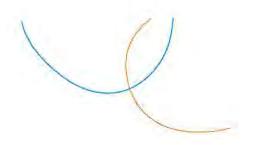
Prepared by — Leenah Ali-Lavroff	xeenahali .	Date — 22/06/2020
Reviewed by — Ross Mannering	R&Mannering	Date — 22/06/2020
Authorised by — Ross Mannering	2 Marning	Date — 22/06/2020

Revision History

Rev No.	Description	Prepared by	Reviewed by	Authorised by	Date
00	Traffic Impact Assessment	L Ali-Lavroff	R Mannering	R Mannering	22/06/2020

© 2020 pitt&sherry

This document is and shall remain the property of pitt&sherry. The document may only be used for the purposes for which it was commissioned and in accordance with the Terms of Engagement for the commission. Unauthorised use of this document in any form is prohibited.



1. Introduction

1.1 Background

During the leadup to the 2018 State election, the Liberal Party committed to deliver the \$72 million "Roads Package to Support Tasmania's Visitor Economy". The package included a commitment of \$5.5 million over financial years 2018 to 2021 for the upgrade of Evandale Main Road to four lanes from the entrance of the Launceston Airport (Launceston Airport/ Hudson Fysh Drive/ Evandale Main Road roundabout) to the Breadalbane Roundabout (Midland Highway/ Hobart Road/ Evandale Main Road roundabout). The purpose of the Evandale Main Road upgrade includes:

- Improving travel time reliability
- Catering for the growing number of passenger and freight vehicles travelling on the road
- Providing a better first impression for road users arriving at Launceston from the airport.

With the Liberal Party winning the State election, the State Government is now seeking to deliver the Evandale Road upgrades.

1.2 Traffic Impact Assessment Scope

The Department of State Growth (Department) have engaged pitt&sherry to undertake a Traffic Impact Assessment (TIA) for the proposed upgrades along Evandale Main Road.

This report has been prepared with reference to the Department's publication *Traffic Impact Assessments (TIA) Guidelines* and the *Northern Midlands Council Interim Planning Scheme 2013* (Planning Scheme).

Existing Conditions

2.1 Traffic Impact Assessment Study Length

The study length consists of a 1.76 km stretch of Evandale Main Road, from south east of the Breadalbane Roundabout (Midland Highway/ Hobart Road/ Evandale Main Road Roundabout) to the entrance of Launceston Airport (Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout).

The Translink Avenue/ Richard Street/ Evandale Main Road roundabout, the Boral Road/ Evandale Main Road/ Richard Street intersection and the Launceston Airport Entrance roundabout are located within the study length. The Breadalbane Roundabout is located to the north-west of the study length.

The study length is currently zoned 28.0 Utilities under the Planning Scheme. Surrounding land uses include 25.0 General Industrial, 26.0 Rural Resource and 28.0 Utilities.

Figure 1 shows the study length in the local context including the land zoning.

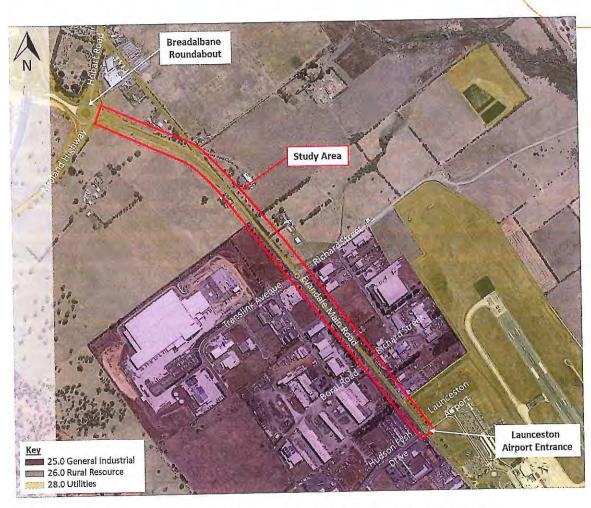


Figure 1: Site Locality Including Land Zoning (Aerial Source: https://maps.thelist.tas.gov.au/listmap/app/list/map)

2.2 Surrounding Road Network

2.2.1 Evandale Main Road

Evandale Main Road (shown in Figure 2 and Figure 3) is an arterial road providing the primary connection between the Launceston City Centre and the town of Evandale including Launceston Airport. Evandale Main Road originates at the Breadalbane Roundabout and continues south-east to the town of Evandale. Beyond Evandale, Evandale Main Road continues as Nile Road and eventually joins the Midland Highway near Conara.

Within the study length, Evandale Main Road is classified as a Category 2 Regional. Freight Road in the Department's State Road Hierarchy, accommodating B-Doubles and Over Dimensional vehicles to and from the General Industrial Zone. It is a two-way road that operates in a north-west south-east direction and is configured with a single lane in each direction.

Evandale Main Road has an approximate sealed road width of 7 metres. The sealed shoulder along Evandale Main Road varies between 1.5 metres and 2.9 metres.

Evandale Main Road within the study length carries approximately 11,020¹ vehicles a day with a heavy vehicle proportion of 9.8%.



Figure 2: Evandale Main Road facing north-west (Source: Google Earth November 2016)



Figure 3: Evandale Main Road facing south-east (Source: Google Earth November 2016)

2.2.2 Translink Avenue

Translink Avenue (shown in Figure 4 and Figure 5) is a Northern Midlands Council (Council) owned local two-way road configured with a single lane in each direction. The road operates in south-west north-east direction for 400m west of Evandale Main Road, following which it undertakes a 90-degree bend and operates in a north-west south-east direction for 200m, until its termination point.

Translink Avenue has a posted speed limit of 50km/h and carries approximately 2,310² vehicles a day. The heavy vehicle proportion along Translink Avenue is 56.3%.



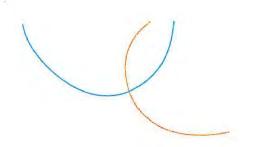
Figure 4: Translink Avenue facing north-east (Source: Google Earth January 2010)



Figure 5: Translink Avenue facing south-west (Source: Google Earth January 2010)

¹ Traffic volume calculated using 2019 traffic data collected by Matrix Traffic and Transport Data and assuming a peak to daily ratio of 10%

² Traffic volume calculated using 2019 traffic data collected by Matrix Traffic and Transport Data and assuming a peak to daily ratio of 10%.



2.2.3 Richard Street

Richard Street (shown in Figure 4 and Figure 5) is a Council owned local two-way road configured with a single lane in each direction. Richard Street operates as a loop road, originating at the Translink Avenue/ Richard Street/ Evandale Main Road roundabout and terminating 400m south-east of the roundabout at the Boral Road/ Evandale Main Road/ Richard Street intersection.

There are no speed limited signs along Richard Street subjecting it to the Tasmanian Urban Speed Limit of 50km/h. Richard Street carries approximately 1,230² vehicles a day with a heavy vehicle proportion of 33.2%.



Figure 6: Richard Street facing south-west (Source: Google Earth January 2010)



Figure 7: Richard Street facing north-east (Source: Google Earth January 2010)

2.2.4 Hudson Fysh Drive

Hudson Fysh Drive (shown in Figure 4 and Figure 5) is a Council owned local two-way road configured with a single lane in each direction. The road operates in an north-east/ south-west direction.

Hudson Fysh Drive is signposted with a 50km/h speed limit. Hudson Fysh Drive carries approximately 1,300³ vehicles a day with a heavy vehicle proportion of 29.6%.

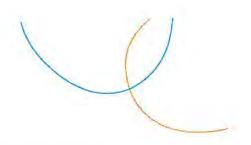


Figure 8: Hudson Fysh Drive facing north-east (Source: Google Earth January 2010)



Figure 9: Hudson Fysh Drive facing south-west (Source: Google Earth January 2010)

³ Traffic volume calculated using 2019 traffic data collected by Matrix Traffic and Transport Data and assuming a peak to daily ratio of 10%



2.2.5 Launceston Airport Access Road

The Launceston Airport Access Road (shown in Figure 10) is a Federal Government owned two-way access road configured with a single lane in each direction. The road operates in a north-east south-west direction.

Launceston Airport Access Road is signposted with a 40km/h speed limit and has an approximate width between kerbs of 8.0m. The road carries approximately 7,8003 vehicles a day with a heavy vehicle proportion of 1.9%.



Figure 10: Launceston Airport Access Road facing north-east (Source: pitt&sherry file photograph)

2.3 Surrounding Intersections

The following intersections are located within the study length:

- Translink Avenue/ Richard Street/ Evandale Main Road (4 leg roundabout)
- Boral Road/ Evandale Main Road/ Richard Street (4 leg give-way intersection)
- Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road (4-leg Roundabout)

In addition to above intersections, the Breadalbane Roundabout (Midland Highway/ Hobart Road/ Evandale Main Road Roundabout) is located to the north-west of the study length.

2.4 Existing Traffic Volumes

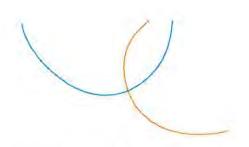
2.4.1 Traffic Data Collection

Vehicle turning movement counts were undertaken by Matrix Traffic and Transport Data on Friday 1 March 2019 during the AM peak period (7:30am – 9:30am) and the PM peak period (3:00pm – 6:00pm) at the following intersections:

- Translink Avenue/ Richard Street/ Evandale Main Road Roundabout
- Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout

Analysis of the collected turning movement data determined that the AM peak hour for the network occurred between 7:45am - 8:45am while the PM peak hour occurred between 4:30pm - 5:30pm.

No traffic counts have been undertaken at the Boral Road/ Evandale Main Road/ Richard Street intersection as Boral Road and Richard Street are noted to generate minimal traffic movements.



2.4.2 Growth Rates

As the traffic data along Evandale Main Road is from 2019, it has been necessary to calculate 2020 traffic volumes.

In order to calculate 2020 traffic volumes, the following assumptions have been made:

- The traffic growth rate along Evandale Main Road has been assumed to be 2.9% based on traffic data available from the Department of State Growth for Evandale Main Road
- A growth rate of 3.6% has been assumed for traffic generated by Launceston Airport based on proposed development expected at Launceston Airport
- A growth rate of 2% has been applied to the traffic volumes along Translink Avenue, Richard Street and Hudson Fysh Drive.

2.4.3 Summary of Traffic Volumes

Based on the traffic data collected and the calculated traffic generation, the estimated existing traffic volumes are shown in Figure 11 and Figure 12.

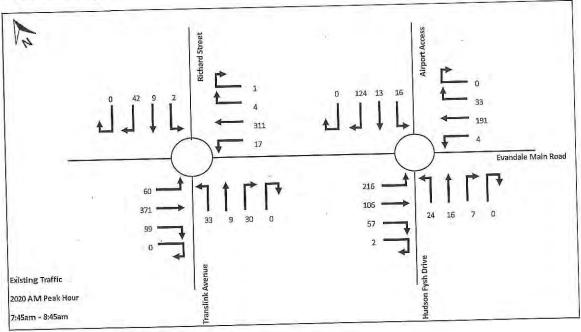


Figure 11: Existing 2020 Traffic Volumes - AM Peak Hour

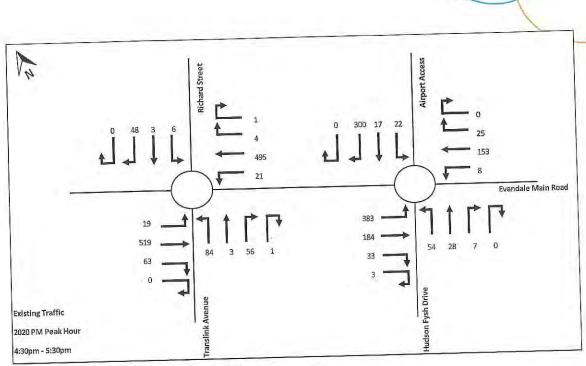


Figure 12: Existing 2020 Traffic Volumes - PM Peak Hour

2.5 Existing Intersection Performance

2.5.1 Traffic Modelling Software

The traffic operation of the existing intersections within the study length have been assessed using SIDRA Intersection 8.0 modelling software. SIDRA Intersection rates the performance of the intersection based on the vehicle delay and the corresponding LOS. It is generally accepted that an intersection operates well if it is at LOS D or higher. Table 1 shows the criteria that SIDRA adopts in assessing the LOS.

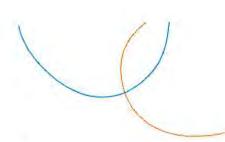


Table 1: SIDRA Level of Service

	Delay per Vehicle (secs)				
LOS	Signals	Roundabout	Sign Control		
A	10 or less	10 or less	10 or less		
В	10 to 20	10 to 20	10 to 15		
C	20 to 35	20 to 35	15 to 25		
D	35 to 55	35 to 50	25 to 35		
E	55 to 80	50 to 70	35 to 50		
F	Greater than 80	Greater than 70	Greater than 50		

2.5.2 Traffic Modelling Layouts

The geometry of the existing intersections within the study length used for the SIDRA traffic model was developed with reference to aerial photography obtained from the LISTmap, observations made during the site visit and available survey data. The aerial photography, site visit and survey data informed the number, width and length of trafficable lanes and speed limits.

The general layout used for the intersections are shown in Figure 13 and Figure 14.

It is noted that the Midland Highway/ Hobart Road/ Evandale Main Road Roundabout has not been modelled as part of this Traffic Impact Assessment as it is outside the study length.

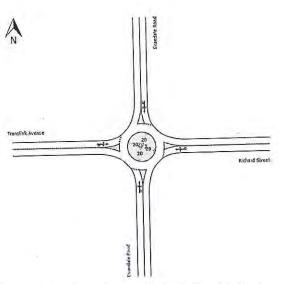


Figure 13: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout SIDRA Modelling Layout

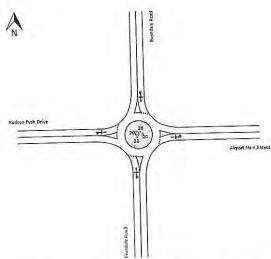
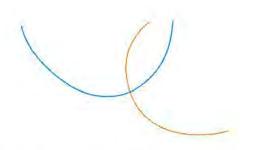


Figure 14: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout SIDRA Modelling Layout



Vehicle Mix 2.5.3

The vehicle mix in the SIDRA models used the total number of vehicles recorded and the proportion of heavy vehicles (Austroads Vehicle Class 3 and above). Buses were considered as heavy vehicles and included in the heavy vehicle proportion.

Traffic Modelling Results 2.5.4

Translink Avenue/ Richard Street/ Evandale Main Road Roundabout

The LOS for each approach of the Translink Avenue/ Richard Street/ Evandale Main Road Roundabout is shown in Figure 15 and Figure 16. A summary of the SIDRA Intersection results for the degree of saturation, average delay and 95th percentile queue is provided in Table 2. Full results are presented in Appendix B.

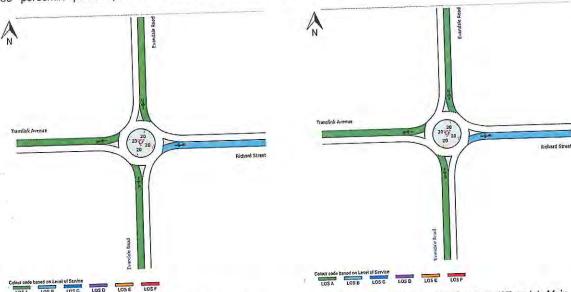
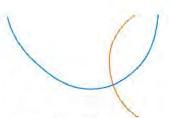


Figure 15: Translink Avenue/ Richard Street/ Evandale Main Road Roundabout - Existing Operation AM Peak Hour LOS

Figure 16: Translink Avenue/ Richard Street/ Evandale Main Road Roundabout - Existing Operation PM Peak Hour LOS

Table 2: Translink Avenue/ Richard Street/ Evandale Main Road Roundabout - Existing Operation SIDRA Results

Approach	Peak Hour	Degree of Saturation	Average Delay (secs)	95 th Percentile Queue (m)
South: Evandale Road		0.30	8	14
East: Richard Street		0,09	11	4
North: Evandale Road	AM	0.39	8	22
		0.09	7	4
West: Translink Avenue All Vehicles		0.39	8	22



Approach	Peak Hour	Degree of Saturation	Average Delay (secs)	95 th Percentile Queue (m)
South: Evandale Road		0.41	7	21
East: Richard Street	PM	0.07	11	3
North: Evandale Road		0.45	7	27
West: Translink Avenue		0.18	8	8
All Vehicles		0.45	7	27

Based on the results presented above, it is seen that all approaches of the Translink Avenue/ Richard Street/ Evandale Main Road Roundabout operate well with an acceptable LOS B or better during both the AM and PM peak hours.

Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout

The LOS for each approach of the Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road roundabout is shown in Figure 17 and Figure 18. A summary of the SIDRA Intersection results for the degree of saturation, average delay and 95th percentile queue is provided in Table 3. Full results are presented in Appendix B.

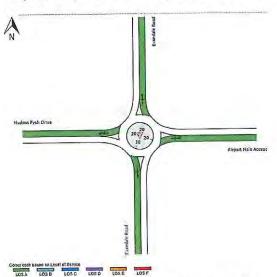


Figure 17: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout - Existing Operation AM Peak Hour LOS



Figure 18: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout - Existing Operation PM Peak Hour LOS

Table 3: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout - Existing Operation SIDRA Results

Approach	Peak Hour	Degree of Saturation	Average Delay (secs)	95 th Percentile Queue (m)
South: Evandale Road	AM -	0.21	8	9
East: Airport Access		0.14	7	5
North: Evandale Road		0.29	7	13
West: Hudson Fysh Drive		0.06	6	2



Approach	Peak Hour	Degree of Saturation	Average Delay (secs)	95 th Percentile Queue (m)
All Vehicles		0.29	7	13
South: Evandale Road		0.20	9	9
East: Airport Access		0.32	8	14
North: Evandale Road	PM	0.44	7	25
West: Hudson Fysh Drive		0.11	6	4
All Vehicles		0.44	7	25

The results above show that all approaches of the Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road roundabout currently operate well with an acceptable LOS A during both the AM and PM peak hours.

2.6 Predicted Intersection Operation in 2021 and 2031 (with existing intersection layouts)

2.6.1 Future Traffic Data

The future traffic operation of the existing intersections within the study length have been assessed for two scenarios as follows:

- 2021 year of completion
- 2031 10 years post completion

The traffic growth rates used for calculating existing traffic volumes have also been used to calculate 2021 and 2031 traffic volumes. These growth rates are discussed in Section 2.4.2 of this report.

2.6.2 Additional Traffic Calculation

Industrial Area Growth

It is understood that there is potential for additional traffic generation along Translink Avenue and Hudson Fysh Drive based on existing land zoning under the Planning Scheme. In order to determine the impact of these land uses on the study area, the traffic generation for these land uses have been added to the calculated 2021 and 2031 traffic volumes.

The expected traffic generation of the land uses were determined using traffic generation rates from the Roads and Maritime Services Guide to Traffic Generating Developments (RMS Guide). The RMS Guide specifies that industrial estates would have 28 employees per hectare with a breakdown of trips during the day as set out in Table 4.

Table 4: Design Traffic Generation Breakdown for Industrial Estates

	Design Generation Rate			
Period	Cars/ 1000 staff	Trucks / 1000 staff		
7:00am – 8:00am	100	1		
8:00am — 9:00am	307	11		
9:00am – 10:00am	206	28		



	Design Generation Rate		
Period	Cars/ 1000 staff	Trucks / 1000 staff	
10:00am – 11:00am	108	33	
11:00am – 12:00pm	83	33	
12:00pm – 1:00pm	132	31	
1:00pm – 2:00pm	162	34	
2:00pm – 3:00pm	113	26	
3:00pm – 4:00pm	163	31	
4:00pm – 5:00pm	265	24	
5:00pm – 6:00pm	350	15	
6:00pm – 7:00pm	43	1	
Total	2032	268	

Using the RMS design generation rates, the expected traffic generation along Translink Avenue and Hudson Fysh Drive are set out in Table 5.

Table 5: Traffic Generation Estimates along Translink Avenue and Hudson Fysh Drive

Location		Traffic Generation (Cars + Trucks)		
	Developable Land	AM Peak Hour	PM Peak Hour	
Translink Avenue West	12.18ha	123	130	
Translink Avenue East	2.67ha	27	28	
Hudson Fysh Drive	52.56ha	533	559	

The directional split of traffic (i.e. the ratio of inbound and outbound traffic movements) that has been adopted for the additional traffic is as follows:

AM Peak Hour
 PM Peak Hour
 40% in/ 40% out
 40% in/ 60% out

The distribution of the traffic is based on several factors including:

- The location of major traffic distribution roads in the vicinity
- The location of traffic generating developments; and
- Existing traffic patterns

The adopted distribution of the expected traffic generated along Translink Avenue and Hudson Fysh Drive is shown in Figure 19 and Figure 20.

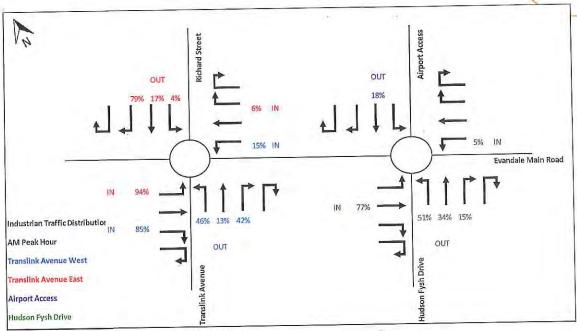


Figure 19: Additional Traffic Distribution – AM Peak Hour

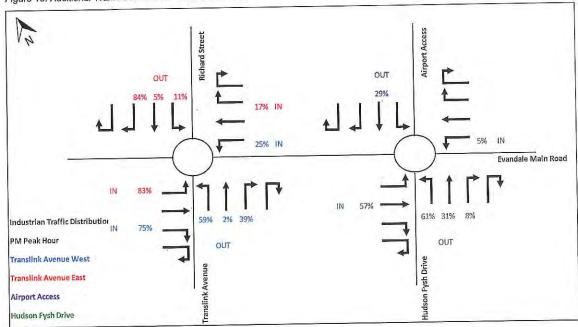


Figure 20: Additional Traffic Distribution – PM Peak Hour

Evandale Subdivision Growth

It is understood that Evandale may be the subject of major development in the future with the potential for 600 low density residential lots to be using Evandale Main Road.

The anticipated traffic volumes for the 600-lots has been assumed to be 600 vehicles per hour during the peak hour. The directional split of traffic (i.e. the ratio of inbound and outbound traffic movements) that has been adopted for the additional traffic is as follows:

AM Peak Hour

35% in/ 65% out

PM Peak Hour

60% in/ 40% out

2.6.3 Summary of Future Traffic Volumes

Based on the calculated 2021 and 2031 traffic data and the addition of the traffic expected to be generated by the Translink Avenue and Hudson Fysh Drive Land Uses and the Evandale subdivision, the expected traffic volumes in 2021 and 2031 are shown in Figure 21 to Figure 24.

It is noted that the additional traffic expected to be generated by the Translink Avenue and Hudson Fysh Drive Land Uses and the Evandale Subdivision have been added to both the 2021 and 2031 volumes in order to assess the worst-case scenario.

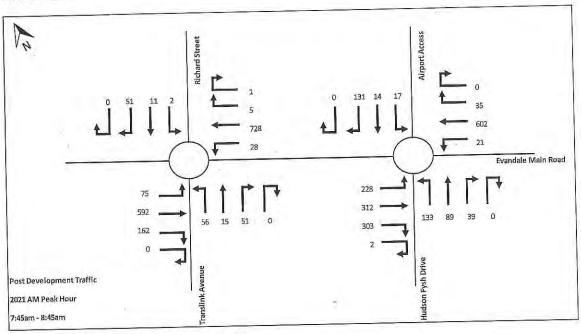
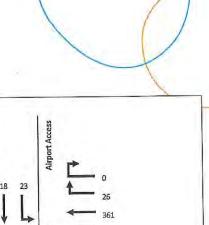


Figure 21: 2021 Traffic Volumes - AM Peak Hour



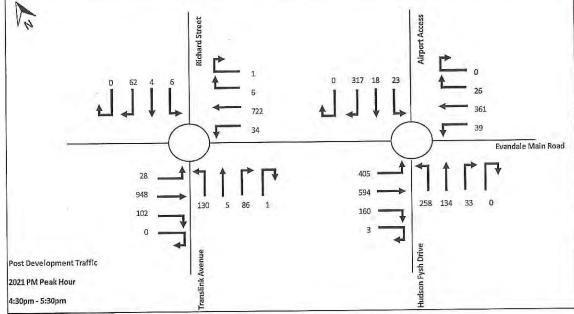


Figure 22: 2021 Traffic Volumes - PM Peak Hour

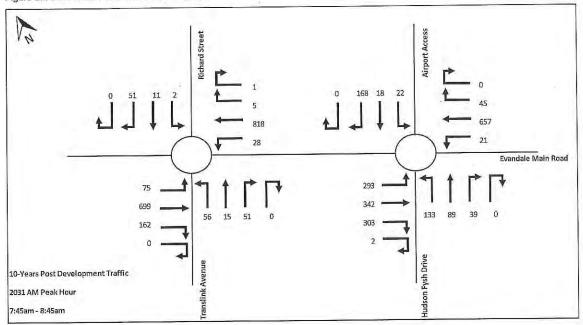


Figure 23: 2031 Traffic Volumes - AM Peak Hour

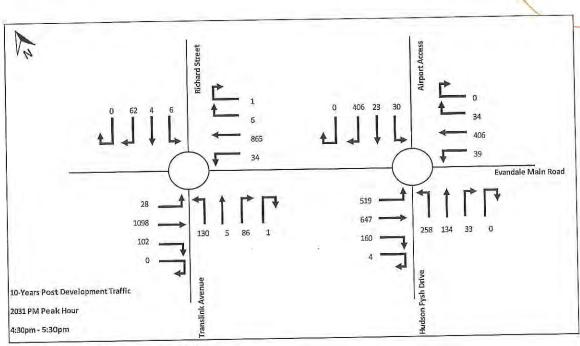


Figure 24: 2031 Traffic Volumes - PM Peak Hour

2.6.4 Traffic Modelling Results

The operation of the roundabouts under future traffic volumes without upgrading of Evandale Road has been assessed with the results provided below.

Translink Avenue/ Richard Street/ Evandale Main Road Roundabout

The LOS for each approach of the Translink Avenue/ Richard Street/ Evandale Main Road Roundabout in 2021 is shown in Figure 25 and Figure 26 while the LOS for each approach in 2031 is shown in Figure 27 and Figure 28. A summary of the SIDRA Intersection results for the degree of saturation, average delay and 95th percentile queue is provided in Table 6. Full results are presented in Appendix C.



Figure 25: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout - 2021 Operation AM Peak Hour LOS



Figure 27: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout - Operation 2031 AM Peak Hour LOS



Figure 26: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout - 2021 Operation PM Peak Hour LOS



Figure 28: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout - 2031 Operation PM Peak Hour LOS

Table 6: Translink Avenue/ Richard Street/ Evandale Main Road Existing Roundabout - 2021 and 2031 Operation SIDRA Results

3: Translink Avenu			Deg	ree of	Average Do	elay	95 th Percentile Queue (m)
Year	Approach	Hour			11	= 1	69
	South: Evandale Road	1 1			15	-	9
1	East: Richard Street	1	-		8		56
-	North: Evandale Road	AM	0.73 11 0.16 15 0.64 8 0.73 12 0.73 16 0.73 2 0.64 8 0.25 2 0.82 2		16		
	West: Translink Avenue				Milon (5.3) 3 11 16 15 64 8 28 12 .73 10 0.64 8 0.25 20 0.82 8 0.40 12 0.82 9 0.81 13 0.19 17 0.71 8 0.34 14 0.81 11 0.78 9 0.41 34 0.92 9 0.51 1 0.92 1		69
	All Vehicles		-	Degree of Paturation Average Down (secs) 0.73 11 0.16 15 0.64 8 0.28 12 0.73 10 0.64 8 0.25 20 0.82 8 0.40 12 0.82 9 0.81 13 0.19 17 0.71 8 0.34 14 0.81 11 0.78 9 0.41 34 0.92 9 0.51 18 0.92 11	45		
2021	South: Evandale Road		-		20)	14
	East: Richard Street		-		- 8	3	102
	North: Evandale Road	PM	-		1	2	22
	West: Translink Avenue		-	0.73 0.16 0.64 0.28 0.73 0.64 0.25 0.82 0.40 0.82 0.41 0.19 0.71 0.34 0.81 0.78 0.40 0.9		9	102
	All Vehicles		-			13	102
	South: Evandale Road	_	-	-		17	12
	East: Richard Street		-		-	8	74
	North: Evandale Road	AI	IVI			14	21
	West: Translink Avenue		-			11	102
	All Vehicles		+			9	79
2031	South: Evandale Road		-		-	34	26
Year	East: Richard Street		-			9	181
	North: Evandale Road		PM			18	34
Year	West: Translink Avenue				J.51		181
	All Vehicles			1	1		

Based on the modelling results presented above, although the increase in traffic will result in a worsening of the operation of the Translink Avenue/ Richard Street/ Evandale Main Road roundabout, the roundabout is expected to continue to operate at an acceptable LOS D or better in 2021 and 2031 in both the AM and PM peak hour.

It is noted that for roundabouts, a Degree of Saturation of 0.85 is normally considered a practical degree of saturation and values above this indicate an intersection approach is reaching capacity. In the 2031 PM peak hour, the Degree of Saturation for the northern approach is 0.92 which indicates that the approach is congested and long queues are expected to form resulting in poor traffic flow.

Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout

The LOS for each approach of the Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road roundabout in 2021 is shown in Figure 29 and Figure 30 while the LOS for each approach in 2031 is shown in Figure 31 and Figure 32. A summary of the SIDRA Intersection results for the degree of saturation, average delay and 95th percentile queue is provided in Table 7. Full results are presented in Appendix C.

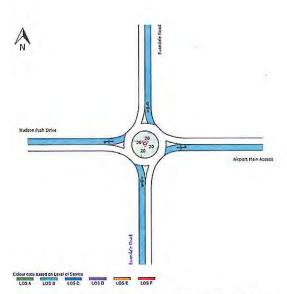


Figure 29: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout - 2021 Operation AM Peak Hour LOS



Figure 31: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout - Operation 2031 AM Peak Hour LOS

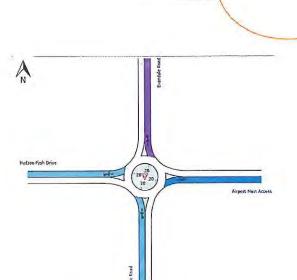


Figure 30: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout - 2021 Operation PM Peak Hour LOS

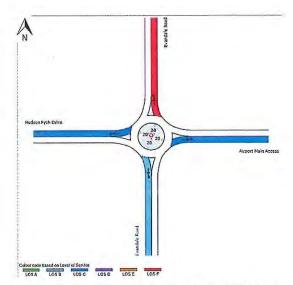


Figure 32: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout - 2031 Operation PM Peak Hour LOS

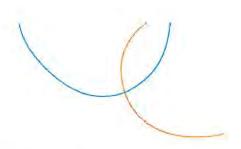


Table 7: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Existing Roundabout – 2021 and 2031 Operation SIDRA Results

Year	Approach	Peak Hour	Degree of Saturation	Average Delay (secs)	95 th Percentile Queue (m)
	South: Evandale Road		0.79	17	84
	East: Airport Access		0.26	11	13
	North: Evandale Road	AM	0.74	10	69
	West: Hudson Fysh Drive		0.54	14	39
	All Vehicles		0.79	13	84
2021	South: Evandale Road		0.56	12	37
	East: Airport Access		0.71	23	61
	North: Evandale Road	PM	1.02	43	423
	West: Hudson Fysh Drive		0.65	14	51
	All Vehicles		1.02	30	423
	South: Evandale Road		0.91	29	158
2021	East: Airport Access	-	0.37	12	20
	North: Evandale Road	AM	0.82	12	51 423 158
	West: Hudson Fysh Drive		0.63	21	51
	All Vehicles	7 ()	0.91	19	158
2031	South: Evandale Road		0.69	16	58
	East: Airport Access		0.85	31	98
	North: Evandale Road	PM	1.17	163	1139
	West: Hudson Fysh Drive		0.78	26	80
	All Vehicles		1.17	93	1139

Based on the modelling results presented above, it is seen that although the increase in traffic volumes results in a worsening of the operation of the Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road roundabout, the roundabout is expected to continue to operate at an acceptable LOS D or better during both the AM and PM peak hours in 2021 and AM peak hour in 2031. The Degree of Saturation in the 2021 PM peak hour and 2031 AM peak hour is however noted to be greater than 0.85, indicating that traffic delays are below the acceptable performance level.

In 2031 PM peak hour, the Evandale Main Road northern approach of the intersection is expected to operate at an unacceptable LOS F. The Degree of Saturation for this approach is also noted to be greater than 1 indicating oversaturated conditions in which long queues of vehicles build up on the approach. All other approaches are expected to operate at a LOS D or better with an acceptable Degree of Saturation of less than 0.85 during the PM peak hour in 2031.



2.7 Road Safety

The Department have provided crash history along the study length for the most recent 5-year period.

The crash history shows that 16 crashes have been recorded along the study length. A summary of the recorded crashes is presented in Table 8.

Table 8: Summary of Crashes

Location	Crash Type	Severity	Coun
Translink Avenue/ Richard	130 – Vehicle in same lane rear end	Property Damage Only	1
Translink Avenue/ Richard Street/ Evandale Main Road Roundabout Boral Road/ Evandale Main Road/ Richard Street Intersection 130 – Vehicl 121 – Right in 110 – Cross 130 – Vehicl 130 – Vehicl 171 – Left of parked vehicl 172 – Off ca	184 - Out of control on carriageway	Property Damage Only	1
Devel Band/ Evendele Main	121 - Right through	Property Damage Only	-1
Road/ Richard Street	110 – Cross traffic	Property Damage Only	3
Intersection	130 – Vehicle in same lane rear end	Property Damage Only	1
	4 – Out of control on carriageway 1 – Right through 0 – Cross traffic 0 – Vehicle in same lane rear end 0 – Vehicle in same lane rear end 1 – Left off carriageway into object or arked vehicle 2 – Off carriageway to right 2 – Out of control on carriageway	Property Damage Only	3
	130 – Venicie in same iane rear end	Minor	1
Evandale Road	171 – Left off carriageway into object or parked vehicle	Property Damage Only	1
	172 - Off carriageway to right	Property Damage Only	1
	174 - Out of control on carriageway	Serious	1
Launceston Airport Entrance/	110 – Cross traffic	Minor	1
Hudson Fysh Drive/ Evandale Main Road Roundabout	116 – Left near	Property Damage Only	1

The crash history above indicates that the majority of crash types recorded in the most recent 5-year period have occurred once.

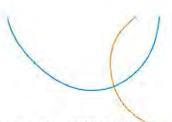
Among the crashes that have occurred more than once, the most common types are the 110 – Cross traffic (3 Instances), and 130 – Vehicle in same lane rear end (4 instances).

The crash history is considered to be reflective of similar arterial roads that carry large volumes of traffic and are approaching capacity.

Development Proposal

3.1 Overview

As discussed, an upgrade of Evandale Main Road to four lanes from the entrance of the Launceston Airport to the Breadalbane Roundabout is proposed as part of the Roads Package to Support Tasmania's Visitor Economy. In addition to the Evandale Main Road upgrade, it is also proposed to upgrade the single-lane Translink Avenue/ Evandale Main Road/ Richard Street roundabout to a two-lane roundabout and introduce a Channelised Right Turn (CHR) Lane to Boral Road at the Boral Road/ Evandale Main Road/ Richard Street intersection.



Full plans of the proposed layout of Evandale Main Road between the entrance of the Launceston Airport and the Breadalbane Roundabout including the roundabout and intersection upgrades is included in Appendix A.

3.2 Evandale Main Road Upgrade

With the proposed upgrade of Evandale Main Road from the entrance of the Launceston Airport to the Breadalbane Roundabout, two lanes will be provided in each direction along the study length. The upgrade will consist of:

- Two 3.5 metres wide trafficable lanes in each direction with a 2 metre sealed shoulder on either side, catering for B-doubles and Over Dimensional vehicles
- Zip merge from two lanes to one lane on south-eastern approach of Evandale Main Road at the Breadalbane Roundabout
- New two-lane roundabout at the Translink Avenue/ Richard Street/ Evandale Main Road intersection catering for B-doubles and Over Dimensional vehicles
- Dedicated left turn lane for vehicles turning left into airport from north-western approach of Evandale Main Road at the Launceston Airport Entrance roundabout
- Dedicated channelised right turn (CHR) lane to Boral Road at the Boral Road/ Evandale Main Road/ Richard Street intersection catering for B-doubles and Over Dimensional vehicles
- Tensioned wire-rope barrier along the study length designed in accordance with turning movement requirements for over-dimensional vehicles
- New street lighting at the intersections and along the study length with lumination in accordance with Australian Standards requirements for a Category V5 road
- A posted speed limit of 80 km/h.

3.3 Restricted Access

As part of the upgrade of Evandale Main Road to four lanes, it is proposed to upgrade the Boral Road/ Evandale Main Road/ Richard Street intersection to include a Channelised Right Turn (CHR) treatment into Boral Road and restricted movements from Boral Road and Richard Street.

The CHR treatment will allow passenger and heavy vehicles to turn right from Evandale Road to Boral Road, as shown in Figure 33.

The restricted movements will be for right turns from Boral Road and Richard Street onto Evandale Main Road and these movements have been restricted due to the risk associated with trying to perform right turn movements on a high-volume road across multiple lanes of traffic. The impacts on traffic due to these restricted movements are however considered to be minor due to the connectivity of the adjacent road network. Vehicles wishing to turn right from either Boral Road or Richard Street can make the following movements, as shown in Figure 34:

- Boral Road: Turn left at Evandale Main Road, U-Turn at Translink Avenue/ Richard Street/ Evandale Main Road roundabout,
- Boral Road: Travel along Johns Street, right turn into Translink Avenue, right turn at Evandale Main Road
- Richard Street: Turn left at Evandale Main Road, U-turn at Hudson Fysh Drive/ Airport Access Road/ Evandale Main Road,
- Richard Street: Travel along Richard Street north-west, turn right at Translink Avenue/Richard Street/ Evandale
 Main Road roundabout.

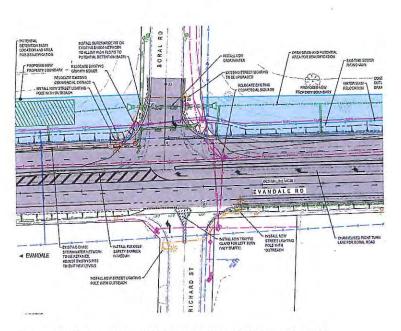


Figure 33: CHR Treatment at Boral Road/ Richard Street/ Evandale Road

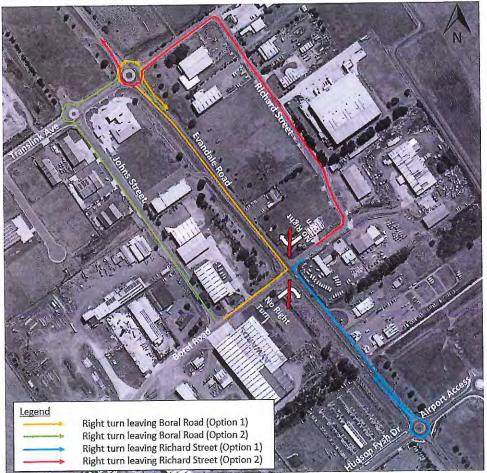
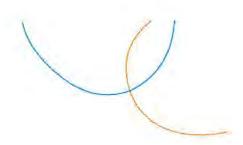


Figure 34: Restricted access at Boral Road/ Richard Street/ Evandale Main Road – route options for right-turning vehicles (Aerial Source: https://maps.thelist.tas.gov.au/listmap/app/list/map)



Traffic Assessment

4.1 Traffic Impact Assessment

4.1.1 Vehicle Routes

Evandale Main Road

As the changes to Evandale Main Road between the entrance of the Launceston Airport and the Breadalbane Roundabout will be limited to upgrading to four lanes, there will be no changes in the vehicle routes along Evandale Main Road.

Translink Avenue/ Richard Street/ Evandale Main Road Roundabout

The changes to the Translink Avenue/ Richard Street/ Evandale Main Road roundabout will be limited to upgrading the existing single-lane roundabout to a two-lane roundabout. There will be no changes in the vehicle route for vehicles travelling through the roundabout.

Boral Road/ Evandale Main Road/ Richard Street Intersection

As discussed, with the upgrade of Evandale Main Road to four lanes, Boral Road and Richard Street at the Boral Road/ Evandale Main Road/ Richard Street Intersection will be restricted to left in and left out movements only with the exception of Boral Road which will facilitate right in movements.

In order to undertake an exiting right turn movement at this intersection, vehicles using Boral Road will need to travel to the the Translink Avenue/ Richard Street/ Evandale Main Road roundabout and undertake a U-turn while vehicles using Richard Street will need to travel to the Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout and undertake a U-turn.

Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout

As the changes to the Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout will be limited to the Evandale Main Road northern leg being upgraded to four lanes, there will be no changes in the vehicle route for vehicles travelling through the roundabout.

4.1.2 Intersection Operation

Traffic Modelling Layout

The geometry of the proposed roundabout layout used for the SIDRA traffic model was developed with reference to prepared concept plans. The concept plans informed the number, width and length of trafficable lanes and speed limits.

The general layout used for the intersections are shown in Figure 35 and Figure 36.

Whilst the Evandale Main Road departure on the northern leg at the Hudson Fysh Drive roundabout will diverge into two lanes shortly after the roundabout, this has not been reflected within the SIDRA model layout shown in Figure 36 due to the modelling software parameters which do not graphically reflect exit lanes that are starting after an intersection.

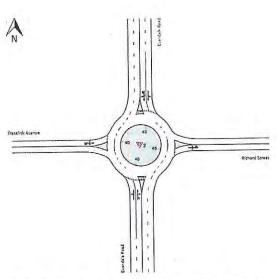


Figure 35: Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout SIDRA Modelling Layout

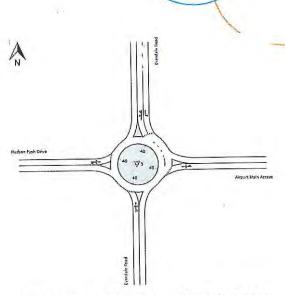


Figure 36: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout SIDRA Modelling Lavout

Traffic Modelling Results

Translink Avenue/ Richard Street/ Evandale Main Road Roundabout

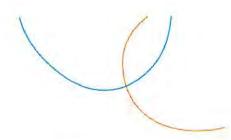
The LOS for each approach of the Translink Avenue/ Richard Street/ Evandale Main Road proposed roundabout in 2021 is shown in Figure 37 and Figure 38 while the LOS for each approach in 2031 is shown in Figure 39 and Figure 40. A summary of the SIDRA Intersection results for the degree of saturation, average delay and 95th percentile queue is provided in Table 9. Full results are presented in Appendix D.

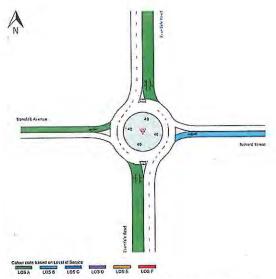


Figure 37: Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout - 2021 Operation AM Peak Hour LOS



Figure 38: Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout - 2021 Operation PM Peak Hour LOS





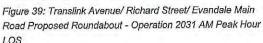




Figure 40: Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout - 2031 Operation PM Peak Hour LOS

Table 9; Translink Avenue/ Richard Street/ Evandale Main Road Proposed Roundabout - 2021 and 2031 Operation SIDRA Results

Year	Approach	Peak Hour	Degree of Saturation	Average Delay (secs)	95 th Percentile Queue (m)
	South: Evandale Road		0.30	7	15
1	East: Richard Street		0.11	10	4
	North: Evandale Road	AM	0.29	7	15
	West: Translink Avenue		0.19	7	7
	All Vehicles	7 / _]	0.30	turation (secs) Quet 0.30 7 0.11 10 0.29 7 0.19 7 0.30 7 0.27 6 0.11 10 0.37 7 0.29 7 0.34 7 0.12 11 0.32 7 0.20 8 0.34 7	15
2021	South: Evandale Road		0.27		13
	East: Richard Street		0.11	10 .	3
	North: Evandale Road	PM	0.37	7	20
	West: Translink Avenue		0.29	7	9
	All Vehicles		0.29 7 0.19 7 0.30 7 0.27 6 0.11 10 1 0.37 7 0.29 7 0.37 7 0.34 7 0.12 11 0.32 7 0.20 8	20	
	South: Evandale Road	1	0.34	7	17
	East: Richard Street		0.12	11	5
	North: Evandale Road	AM	0.32	7	18
2031	West: Translink Avenue	-1.53	0.20	8	7
	All Vehicles		0.34	7	18
	South: Evandale Road	PM	0.32	6	15



Year	Approach	Peak Hour	Degree of Saturation	Average Delay (secs)	95 th Percentile — Queue (m)
	East: Richard Street		0.12	10	4
	North: Evandale Road	7	0.42	7	25
	West: Translink Avenue		0.31	7	10
	All Vehicles		0.42	7	25

Based on the modelling results presented above, all approaches of the Translink Avenue/ Richard Street/ Evandale Main Road roundabout are expected to operate well at a LOS B or better in 2021 and 2031. This is compared to the LOS D or better expected if there was to be no change to the existing layout.

Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Roundabout

The LOS for each approach of the Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road proposed roundabout in 2021 is shown in Figure 41 and Figure 42 while the LOS for each approach in 2031 is shown in Figure 43 and Figure 44. A summary of the SIDRA Intersection results for the degree of saturation, average delay and 95th percentile queue is provided in Table 10. Full results are presented in Appendix D.

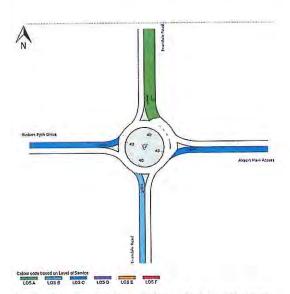


Figure 41: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout - 2021 Operation AM Peak Hour LOS

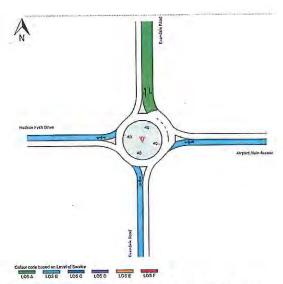
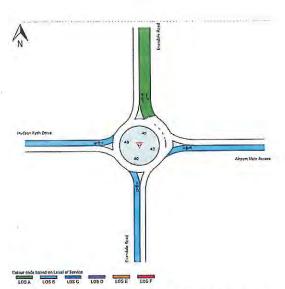
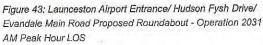


Figure 42: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout - 2021 Operation PM Peak Hour LOS





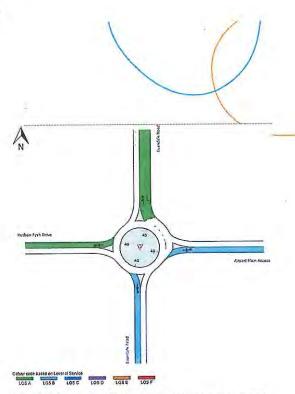


Figure 44: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout - 2031 Operation PM Peak Hour LOS

Table 10: Launceston Airport Entrance/ Hudson Fysh Drive/ Evandale Main Road Proposed Roundabout – 2021 and 2031 Operation SIDRA Results

Year	Approach	Peak Hour	Degree of Saturation	Average Delay (secs)	95 th Percentile Queue (m)
4	South: Evandale Road		0.59	12	44
	East: Airport Access		Saturation	34	98
	North: Evandale Road	AM	0.58	8	43
	West: Hudson Fysh Drive		0.73	21	78
	All Vehicles		0,85	15	98
2021	South: Evandale Road		0.75	15	77
	East: Airport Access	PM	0.31	11	13
	North: Evandale Road		0.45	9	1=29
	West: Hudson Fysh Drive		0.52	13	39
	All Vehicles		0.75	11	77
	South: Evandale Road		0.47	9	27
	East: Airport Access		0.61	18	42
0004	North: Evandale Road	AM	0.53	8	38
2031	West: Hudson Fysh Drive		0.61	12	52
	All Vehicles		0.61	10	52
	South: Evandale Road	PM	0.66	12	54



Year	Approach	Peak Hour	Degree of Saturation	Average Delay (secs)	95 th Percentile — Queue (m)
	East: Airport Access	11 7 7	0.23	10	10
	North: Evandale Road		0.42	9	26
	West: Hudson Fysh Drive		0.44	9	29
	All Vehicles		0.66	10	54

Based on the modelling results presented above, all approaches of the Translink Avenue/ Richard Street/ Evandale Main Road roundabout are expected to operate satisfactorily at a LOS C or better in both the AM and PM peak hours of 2021 and 2031. This is compared to the LOS F expected during the 2031 PM peak hour if there was to be no change to the existing layout.

4.2 Road Safety Implications

The upgrade of Evandale Main Road to four lanes from the entrance of the Launceston Airport to the Breadalbane Roundabout is expected to result in an overall reduction in the 130 – Vehicle in same lane rear end crash types due to a reduction in congestion along the study length. The upgrade of the shoulder width is expected to reduce the likelihood of run-off road crashes due to motorists having a larger recovery area.

In addition to the above, the implementation of the tensioned wire rope safety barrier along the study length is considered to improve road safety as it will reduce the likelihood of head-on collisions.

4.3 Traffic Management/ Impacts During Construction

As the upgrade of Evandale Main Road to four lanes from the entrance of the Launceston Airport to the Breadalbane Roundabout is within the existing road reserve, there will likely be disruption to traffic.

Construction activities will be carefully managed to ensure that delays and disruptions are minimised, recognising the importance of reliable journey times. The Department has strict performance requirements for traffic management on arterial roads with respect to delays and an overall policy to restrict works on these roads that might delay traffic between the hours of 6:30am to 9:30am and 3:00pm to 6:30pm other than exceptional circumstances.

4.4 Parking Assessment

There will be no parking required for the development.

5. Planning Scheme Assessment

The proposed development has been assessed against the relevant sections of the E4.0 Road and Railway Assets Code of the Planning Scheme. The use standards of the code have been assessed in Table 11 while the development standards have been assessed in Table 12.

The proposed development has not been assessed against E6.0 Car Parking and Sustainable Transport Code of the Planning Scheme as the code is not applicable to the development.

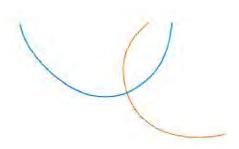


Table 11: E4.0 Road and Railway Assets Code Use Standards

E4.6.1 Use of road or rail infrastructure

Objective:

To ensure that the safety and efficiency of roads and rail infrastructure is not reduced by the creation of new accesses and junctions or increased use of existing accesses and junctions

Acceptable Solution/ Performance Criteria	Comments				
A3	Complies with Acceptable Solutions A3				
For roads with a speed limit of more than 60km/h the use must not increase the annual average daily traffic (AADT) movements at the existing access or junction by more than 10%.	The proposed development will not generate any additional traffic but will instead cater for traffic growth on the road network growth.				

Table 12: E4.0 Road and Railway Assets Code Development Standards

E4.7.1 Development on and adjacent to existing and future arterial roads and railways

Objective:

To ensure that development adjacent to category 1 or category 2 (outside 60km/h) railways and future roads is managed to:

- a. Ensure the safe and efficient operation of roads and the rail network;
- b. Allows for future road and rail widening, realignment and upgrading; and
- c. Avoid undesirable interaction between roads and railways and other use or development

Acceptable Solution/	Performance	Criteria	

A1

The following must be at least 50m from a railway, future road or railway and a category 1 or 2 road in an area subject to a speed limit of more than 60km/h

- New road works, buildings, additions and extensions, earthworks and landscaping works; and
- b. Building areas on new lots; and
- Outdoor sitting, entertainment and children's play areas.

P1

Development including buildings, road works, earthworks, landscaping works and level crossings on or within 50m of a Category 1 or 2 road, in an area subject to a speed limit of more than 60km/h, a railway or future road must be sited, designed and landscaped to:

- Maintain or improve the safety and efficiency of the road or railway or future road or railway, including line of sight from trains;
- Mitigate significant transport related environmental impacts, including noise, air pollution and vibrations in accordance with a report from a suitably qualified person;

Comments

Satisfies Performance Criteria P1

As the proposed development is located within and adjacent to the Evandale Main Road corridor, it is unable to comply with Acceptable Solution A1. It does however satisfy Performance Criteria P1 as follows:

- a. The proposed development includes the upgrade of Evandale Main Road to four lanes between from the entrance of the Launceston Airport to the Breadalbane Roundabout. The proposed upgrade will improve the traffic flow through the study length, improving travel time reliability. The upgrade will also cater for traffic growth along the road network in the future.
- The Department of State Growth is the Tasmanian State Road Authority and the proposed development is a Department of State Growth project.

This Traffic Impact Assessment has been prepared by a suitably qualified traffic engineer for the Department of State Growth and the Department has endorsed this report.

Additional reports discussing environmental impacts are also understood to have been prepared.

- Ensure that additions or extensions of buildings will not reduce the existing setback to the road, railway or future road or railway; and
- d. Ensure that temporary buildings and works are removed at the applicant's expense within three years or as otherwise agreed by the road or rail authority.
- c. N/A as the proposed development is not an addition or extension of a building
- d. The Department of State Growth is the Tasmanian State Road Authority and the proposed development is a Department of State Growth project. It is expected that all temporary buildings and works will be removed in accordance with the requirements set out by the Department of State Growth.

E4.7.2 Management of road accesses and junctions

Objective:

To ensure that the safety and efficiency of roads is not reduced by the creation of new accesses and junctions.

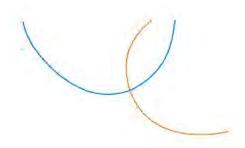
Acceptable Solution/ Performance Criteria	Comments
A2	Complies with Acceptable Solution A2
For roads with a speed limit of more than 60km/h the development must not include a new access or junction.	The proposed development will not create any new junctions or accesses.

E4.7.4 Sight distance at accesses, junctions and level crossings

Objective:

To ensure that accesses, junctions and level crossings provide sufficient sight distance between vehicles and between vehicles and trains to enable safe movement of traffic.

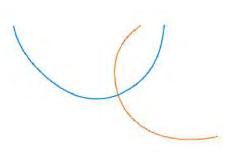
Accep	table Solution/ Performance Criteria	Comments				
A1		Complies with Acceptable Solution A1				
Sight distances at:		The proposed development will not create any new junctions or				
a.	n access or junction must comply with e Safe Intersection Sight Distance nown in Table E4.7.4; and	accesses. All existing accesses are noted to have sufficient s distance in accordance with Table E4.7.4.				
b.	Rail level crossings must comply with AS1742.7 Manual of uniform traffic control devices – Railway crossings, Standards Association of Australia; and					
C.	If the access is a temporary access, the written consent of the relevant authority has been obtained.					



Conclusion

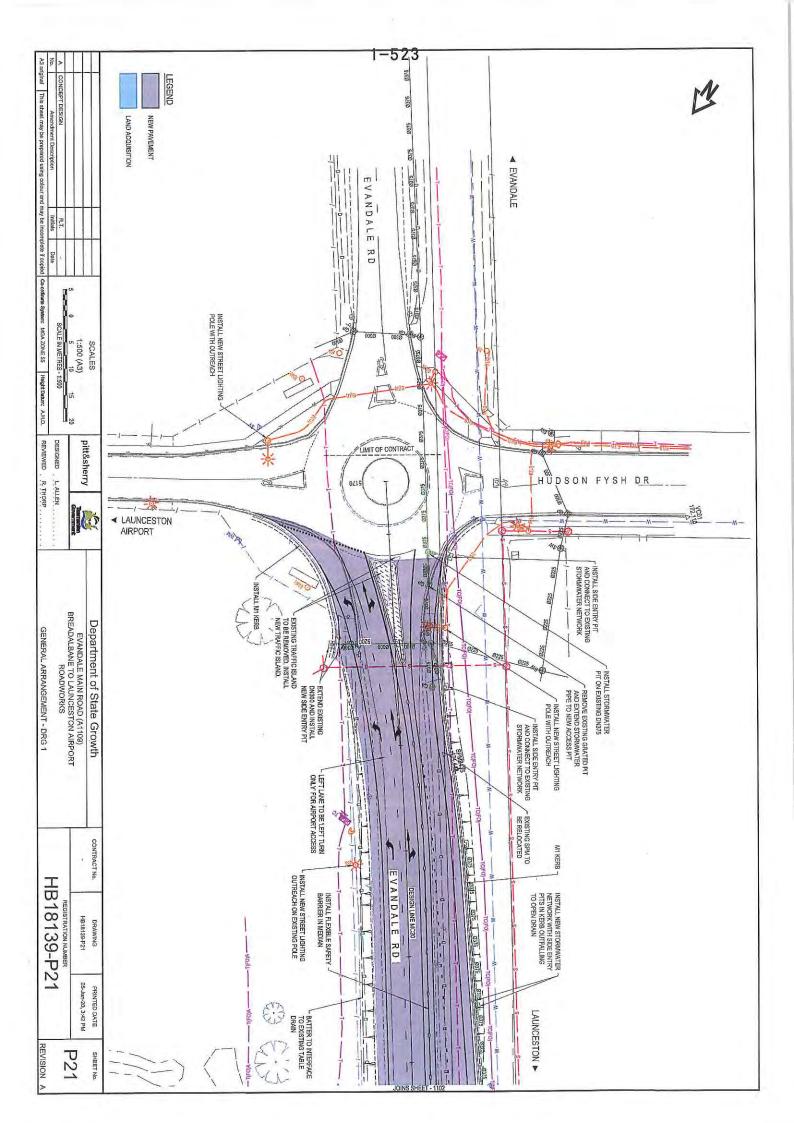
The Department of State Growth have engaged pitt&sherry to undertake a Traffic Impact Assessment for the proposed upgrades along Evandale Main Road from the entrance of the Launceston Airport to the Breadalbane Roundabout. This report has been prepared with reference to the Department of State Growth's publication *Traffic Impact Assessments* (*TIA*) Guidelines and the Northern Midlands Council Interim Planning Scheme 2013. The findings presented within this report can be summarised as follows:

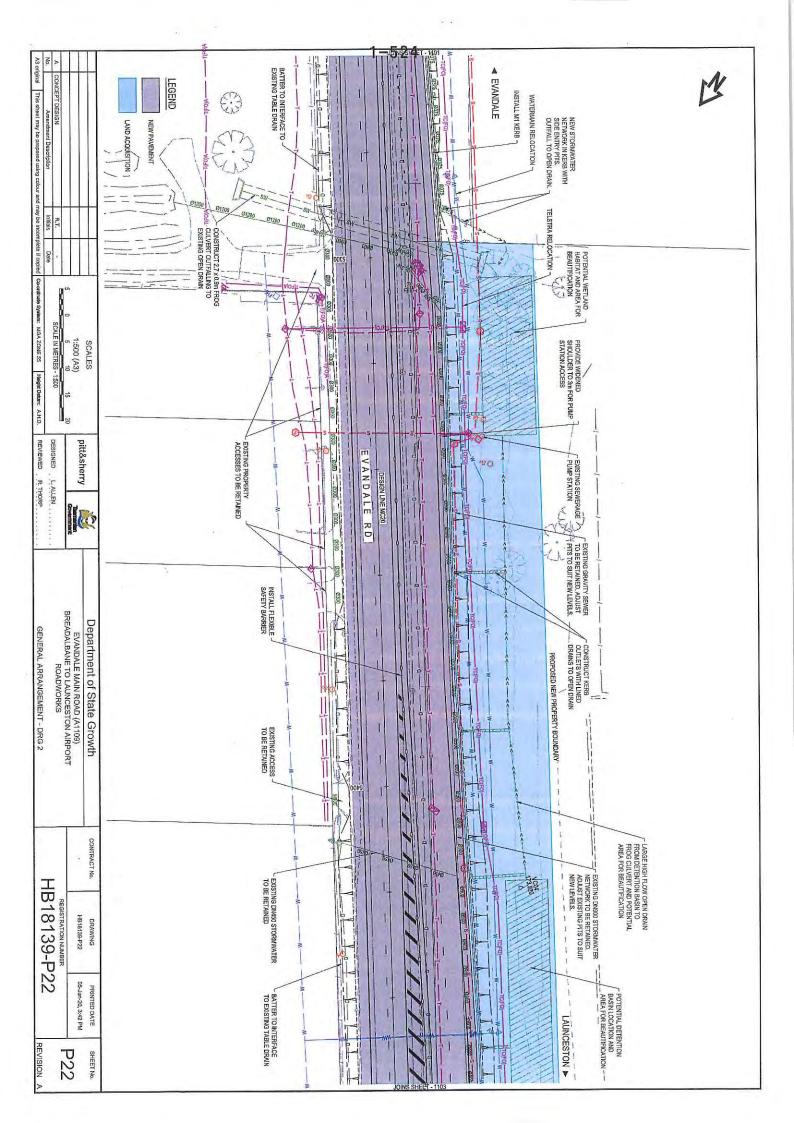
- As part of the Roads Package to Support Tasmania's Visitor Economy, it is proposed to upgrade Evandale Main Road to four lanes from the entrance of the Launceston Airport to the Breadalbane Roundabout
- It is also proposed to upgrade the single-lane Translink Avenue/ Evandale Main Road/ Richard Street roundabout to a two-lane roundabout and introduce a Channelised Right Turn (CHR) Lane to Boral Road at the Boral Road/ Evandale Main Road/ Richard Street intersection
- The proposed upgrades are expected to cater for the road network growth
- Upgrade of the Translink Avenue/ Evandale Main Road/ Richard Street roundabout results in it operating at a LOS C or better in 2031 compared to the LOS F expected under the existing layout
- The proposed upgrades will result in Boral Road and Richard Street at the Boral Road/ Evandale Main Road/ Richard Street intersection to have restricted movements
- The proposed upgrades are expected to result in a reduction in the 130 Vehicle in same lane rear end crash types
- Construction activities for the project will be managed using the Department of State Growth's Standard Specifications to ensure that delays and disruptions are minimised.

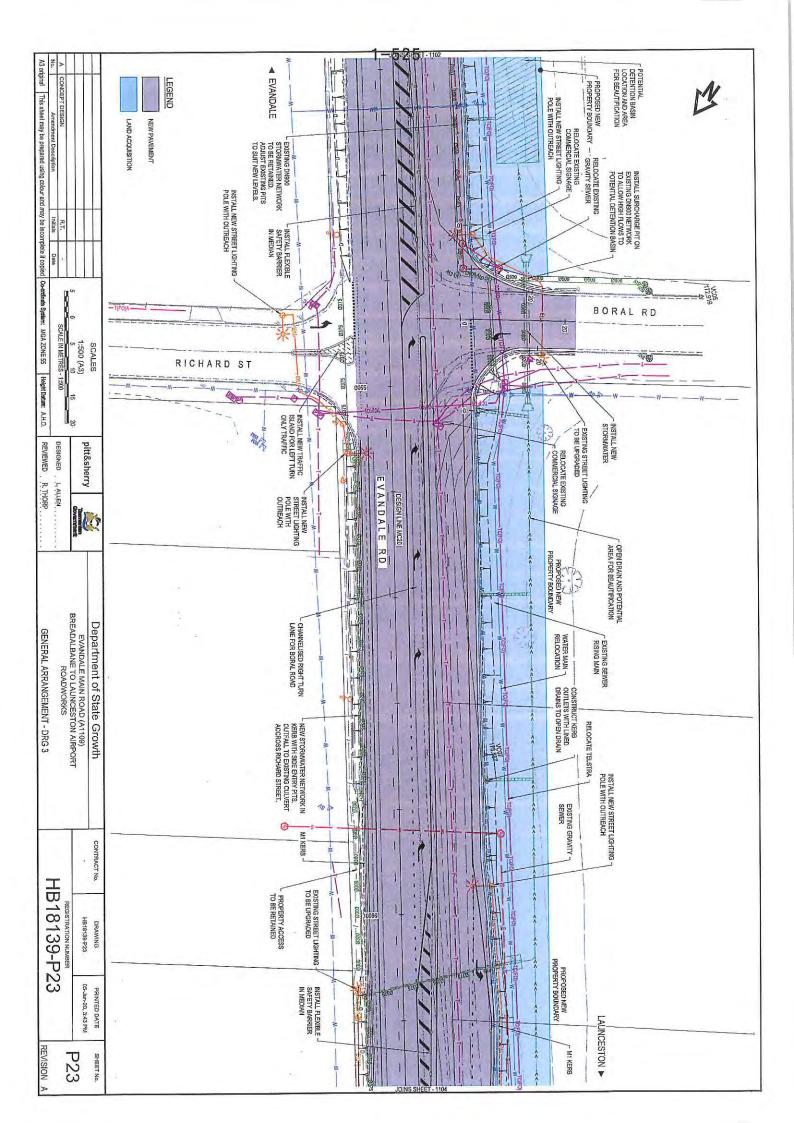


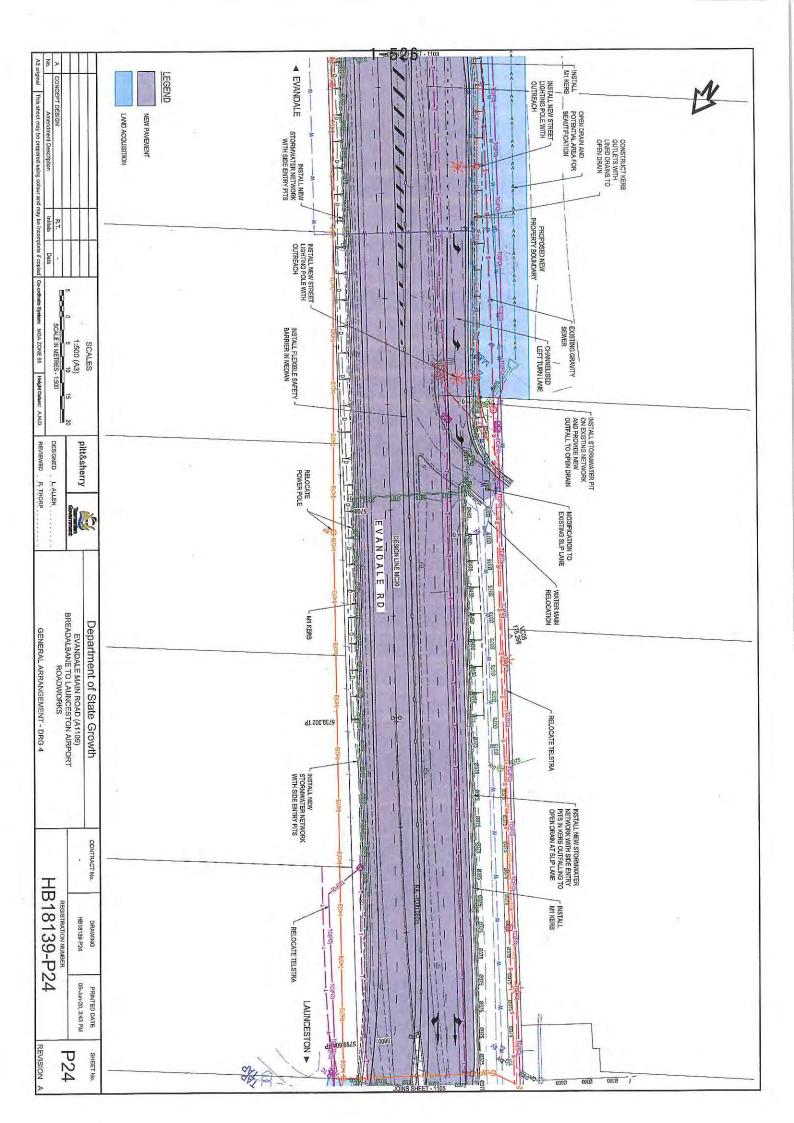
Concept Plans

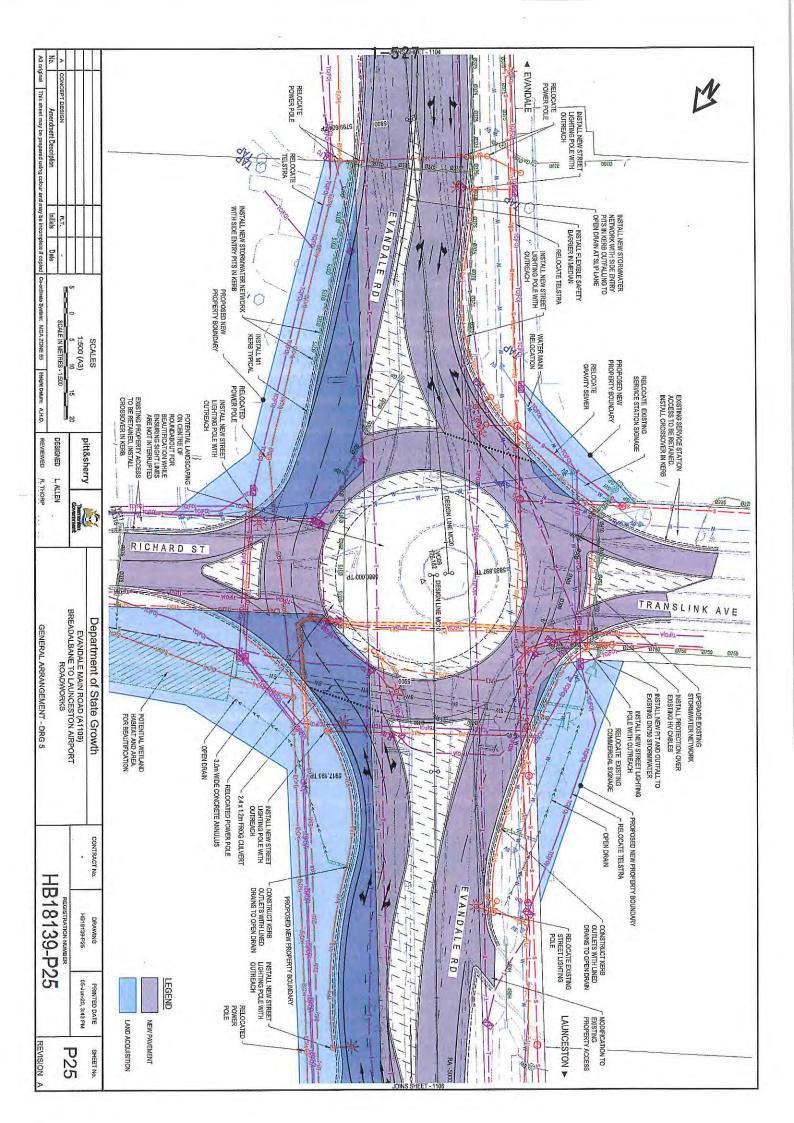
Appendix A

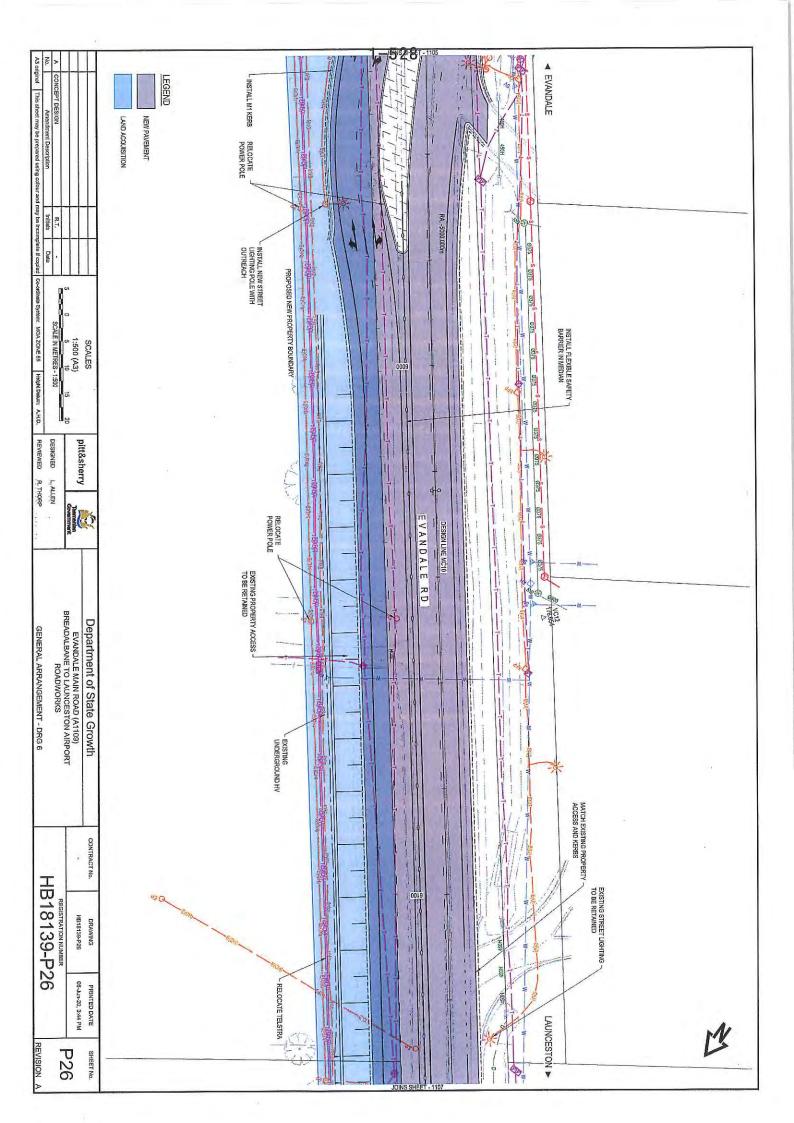


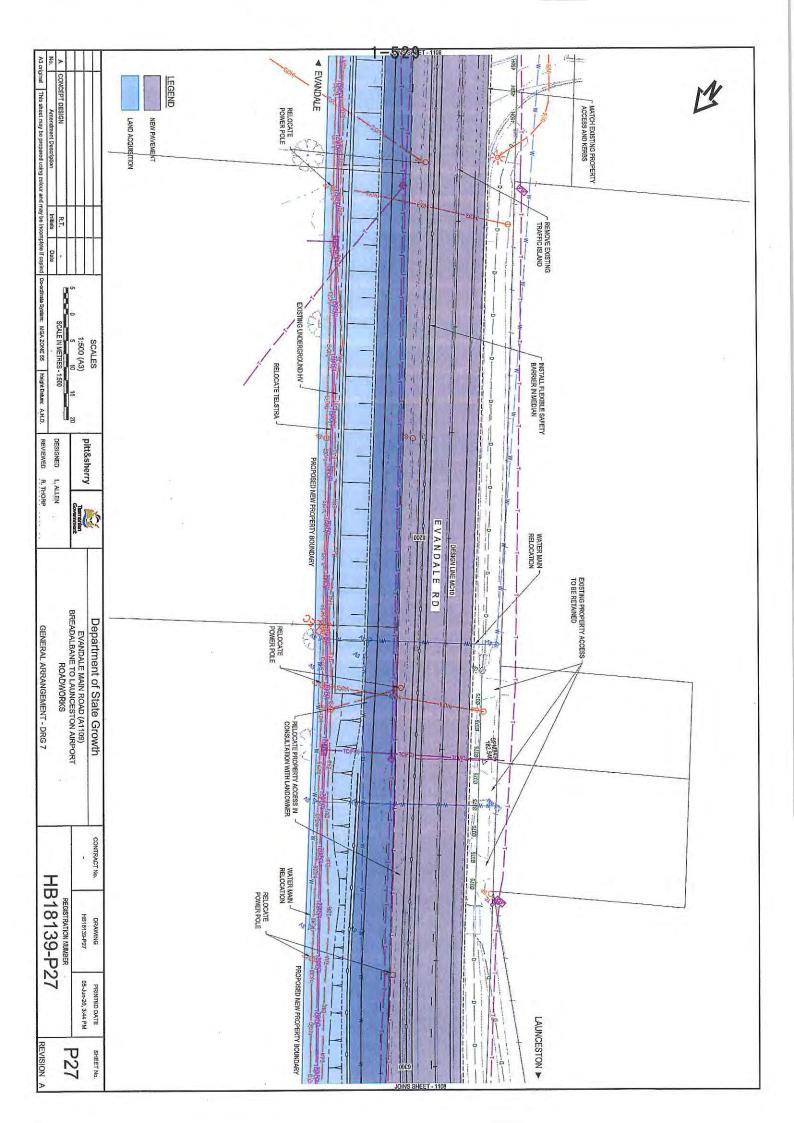


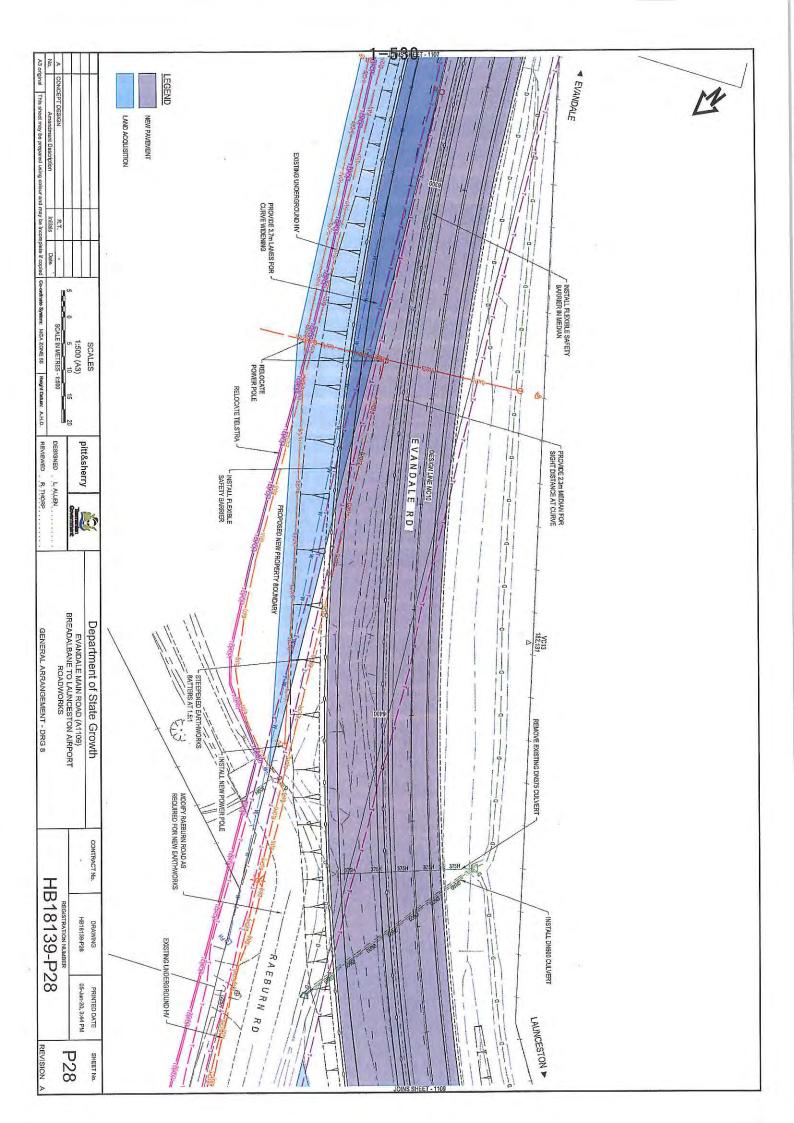


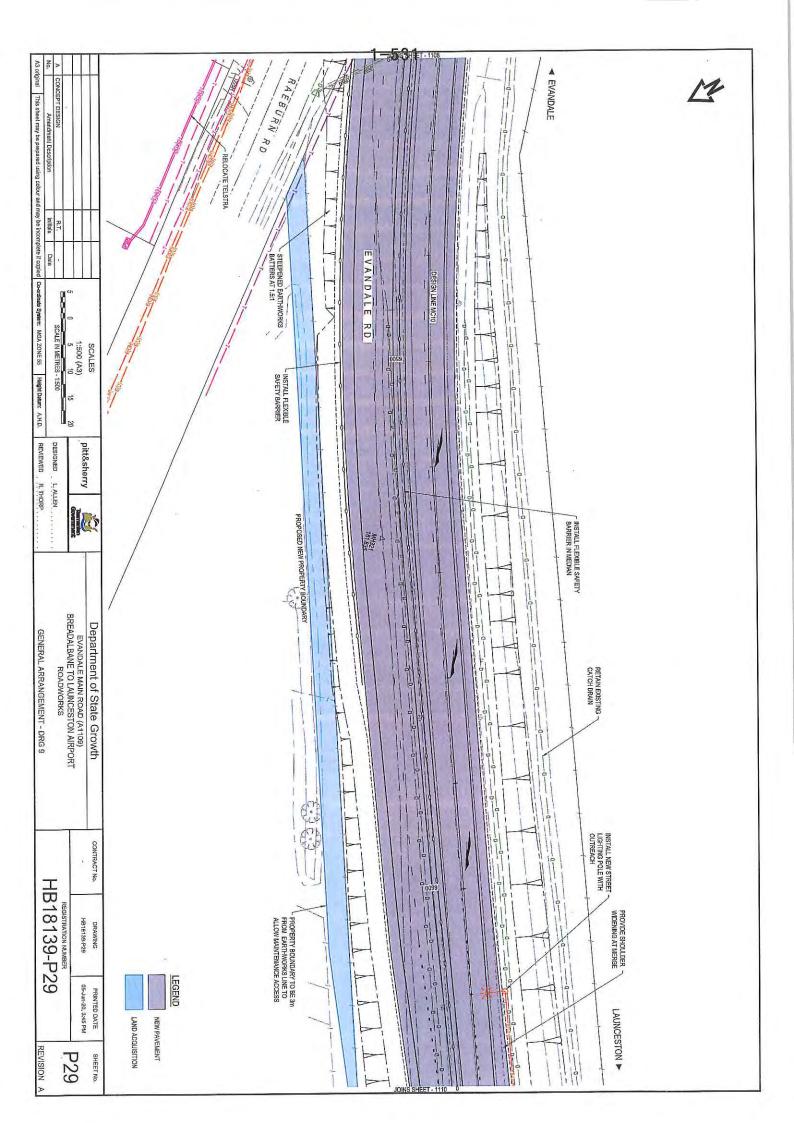


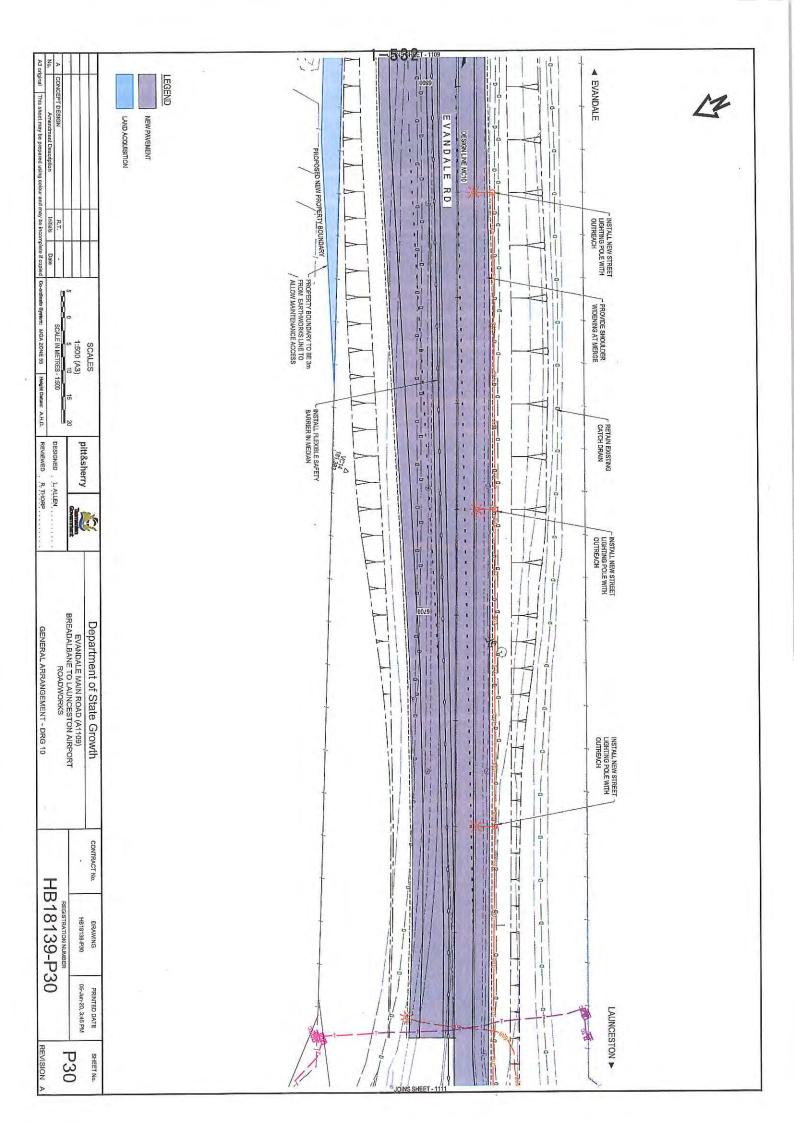


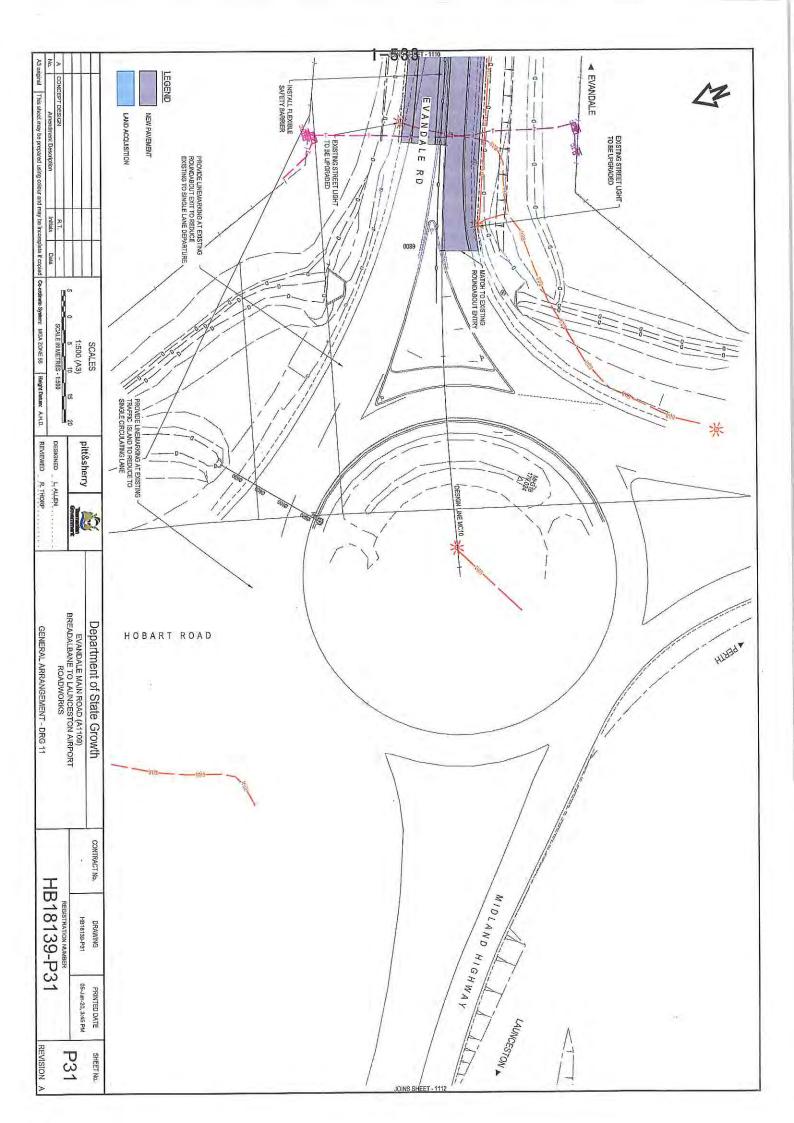












SIDRA Results - Existing Layout Operation 2020

Appendix B

Site: 2 [Evandale Road/ Richard Street/ Translink Avenue - Existing AM Peak]

07:45-08:45 Site Category: (None) Roundabout

Mov	Turn	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.		Aver. No.	Average
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/h
South	: Evandal	e Road										
4	L2	18	5.0	0.301	6.8	LOSA	1.8	13.9	0.42	0.57	0.42	
5	T1	327	10.0	0.301	7.5	LOSA	1.8	13.9	0.42	0.57	0.42	63.2
6	R2	4	2.0	0.301	11.9	LOS B	1.8	13.9	0.42	0.57	0.42	55.8
6u	U	1	2.0	0.301	14.3	LOS B	1.8	13.9	0.42	0.57	0,42	66.0
Appro	ach	351	9.6	0.301	7.5	LOS A	1.8	13.9	0.42	0.57	0.42	62.9
East:	Richard S	Street										
7	L2	2	2.0	0.087	5.7	LOSA	0.4	4.4	0.62	0.71	0.62	50.3
8	T1	9	30.0	0.087	6.4	LOS A	0.4	4.4	0.62	0.71	0.62	32.6
9	R2	44	60.0	0.087	12.1	LOS B	0.4	4.4	0.62	0.71	0.62	41.6
9u	U	1	2.0	0.087	12.0	LOS B	0.4	4.4	0.62	0.71	0,62	46.
Appro	ach	57	51,8	0.087	10.9	LOS B	0.4	4.4	0.62	0.71	0.62	40.8
North	: Evandal	e Road										
10	L2	63	20.0	0.390	6.3	LOSA	3.0	22.4	0.25	0.53	0.25	54.
11	T1	391	5.0	0.390	6.6	LOSA	3.0	22.4	0.25	0.53	0.25	65.
12	R2	104	15.0	0.390	11.4	LOS B	3.0	22,4	0.25	0.53	0.25	42.
12u	U	1	2.0	0.390	13.5	LOS B	3.0	22.4	0.25	0,53	0.25	66.
Appro	ach	559	8.6	0.390	7.5	LOS A	3.0	22.4	0.25	0.53	0,25	59.
West:	Translin	« Avenue										
1	L2	35	30.0	0.090	5.4	LOSA	0.5	4.0	0.54	0.63	0.54	
2	T1	9	60.0	0.090	6.0	LOSA	0.5	4.0	0.54	0.63	0.54	43.
3	R2	32	10.0	0.090	9.5	LOS A	0.5	4.0	0.54	0.63	0.54	51.
3u	U	1	20.0	0.090	11.5	LOS B	0.5	4.0	0.54	0.63	0.54	17.
Appro	ach	77	25.3	0.090	7.2	LOSA	0.5	4.0	0.54	0.63	0.54	47.
All Ve	hicles	1043	12.5	0.390	7.7	LOSA	3.0	22.4	0.35	0.56	0.35	58.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity; SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Monday, 15 June 2020 4:07:55 PM
Project: \\00707pst01.pitt-sherry.local\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections -Existing.sip8

Site: 3 [Evandale Road/ Airport Main Access/ Hudson Fysh Drive - Existing AM Peak]

07:45-08:45 Site Category: (None) Roundabout

Vlov	Turn	Demand		Deg.	Average	Level of	95% Back		Prop.		Aver. No.	
ID		Total	HV	Satn	Delay	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speea km/h
South	: Evanda	veh/h	%	v/c	sec		Well	UIU				tid to the
4	L2	4	2.0	0.211	6.8	LOSA	1.2	8.7	0.42	0.59	0.42	53.8
5	T1	201	5.0	0.211	7.5	LOSA	1.2	8.7	0.42	0.59	0.42	64.
6	R2	35	2.0	0.211	12.0	LOS B	1.2	8.7	0.42	0,59	0.42	42.0
6u	U	1	2.0	0.211	14.4	LOS B	1.2	8.7	0.42	0.59	0.42	65.5
Appro	-	241	4.5	0.211	8.1	LOSA	1.2	8.7	0.42	0.59	0.42	60.9
		ain Access										
7	L2	17	2.0	0.138	3.8	LOSA	0.7	5,2	0.37	0.59	0.37	52.5
8	T1	14	2.0	0.138	3.7	LOS A	0.7	5.2	0.37	0.59	0.37	43.
9	R2	131	2.0	0.138	8.2	LOSA	0.7	5.2	0.37	0.59	0.37	54.
9u	U	1	2.0	0.138	10.1	LOS B	0.7	5.2	0.37	0.59	0.37	18.
Appro		162	2.0	0.138	7.4	LOSA	0.7	5,2	0.37	0.59	0.37	52.
North	: Evanda	e Road										
10	L2	227	2.0	0.285	6.0	LOSA	1.8	13.0	0.23	0.55		
11	T1	112	10.0	0.285	6,7	LOSA	1.8	13.0	0.23			
12	R2	60	10.0	0.285	11.3	LOS B	1.8	13.0	0.23	0.55	0.23	56.
12u	U	2	2.0	0.285	13.5	LOS B	1.8	13.0	0.23	0.55	0.23	
Appro	ach	401	5,4	0.285	7.0	LOSA	1.8	13.0	0.23	0.55	0.23	60.
West:	Hudson	Fysh Drive										
1	L2	25	30.0	0.055	5.2	LOSA	0.3	2.2	0.50			
2	T1	17	2.0	0.055	4.6	LOSA	0.3	2.2	0.50			
3	R2	7	15.0	0.055	9.4	LOS A	0.3	2.2	0.50			
3и	Ú	1	2.0	0.055	10,9	LOS B	0.3	2.2	0.50			
Appro	ach	51	17.9	0.055	5.7	LOSA	0.3	2.2	0.50	0.55	0.50	47
	hicles	855	5.3	0.285	7.3	LOSA	1.8	13.0	0.33	0.57	0.33	58

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Monday, 15 June 2020 4:07:56 PM
Project: \\007pst01.pitt-sherry.local\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections Existing.slp8

Site: 2 [Evandale Road/ Richard Street/ Translink Avenue - Existing PM Peak]

16:30-17:30 Site Category: (None) Roundabout

Mov	Turn	Demand	Flows	Deg.	Average	Level of	95% Back		Prop.	Effective	Aver. No.	
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/l
South	: Evanda	le Road										
4	L2	22	2.0	0.413	6.4	LOSA	3.0	21.0	0.38	0.53		57.7
5	T1	521	2.0	0.413	7.0	LOSA	3.0	21.0	0.38	0.53		65.6
6	R2	4	2.0	0.413	11.6	LOS B	3.0	21.0	0.38	0.53		
6u	U	1	2.0	0.413	14.0	LOS B	3.0	21.0	0.38	0.53	0.38	66.
Appro	ach	548	2.0	0.413	7.1	LOSA	3.0	21.0	0.38	0.53	0.38	65.
East:	Richard S	Street										
7	L2	6	2.0	0.074	6.7	LOS A	0.4	3.1	0.67	0.72		
8	T1	3	2.0	0.074	6.6	LOSA	0.4	3.1	0.67	0.72		
9	R2	45	10.0	0.074	11.4	LOS B	0.4	3,1	0.67	0.72		
9u	U	1	2.0	0.074	13.0	LOS B	0.4	3.1	0.67	0.72		
Approach		56	8.5	0.074	10.6	LOS B	0.4	3.1	0.67	0.72	0.67	48.
North	: Evanda	le Road										
10	L2	20	25.0	0.445	6.5	LOSA	3.7	27.0	0.32			
11	T1	546	2.0	0.445	6.7	LOS A	3.7	27.0	0.32			
12	R2	66	11.0	0.445	11.5	LOS B	3.7	27.0	0.32			
12u	U	1	2.0	0.445	13.7	LOS B	3.7	27.0	0.32			
Appro	oach	634	3.7	0.445	7.2	LOSA	3.7	27.0	0.32	0.51	0.32	63.
West	Translin	k Avenue										
1	L2	88	10.0	0.183	6.4	LOSA	1.1	8.0	0.66			
2	T1	3	2.0	0.183	6.1	LOSA	1.1	8.0	0.66			
3	R2	59	2.0	0.183	10.6	LOS B	1.1	8.0	0.66			
3u	U	1	2.0	0.183	12.5	LOS B	1.1	8.0	0,66	0.72	0.66	
Appro	oach	152	6.7	0.183	8.1	LOSA	1.1	8.0	0.66	0.72	0.66	51
All Ve	hicles	1389	3.5	0.445	7.4	LOSA	3.7	27.0	0.40	0.55	0.40	62
	4775	- Acros										

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Monday, 15 June 2020 4:07:57 PM
Project: \\0007095007pst01.pitt-sherry.local\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections -Existing.sip8

Site: 3 [Evandale Road/ Airport Main Access/ Hudson Fysh Drive - Existing PM Peak]

16:30-17:30

Site Category: (None)

Roundabout

Mov	Turn	Demand	and Flows Deg.		Average	Level of	95% Back		Prop.		Aver. No.	
ID		Total	HV	Satn	Delay	Service	Vehicles veh	Distance	Queued	Stop Rate	Cycles	Speed km/h
South	Evanda	veh/h	%	v/c	sec		Ven	m	-			OXIONAL
4	L2	8	25.0	0.201	8.5	LOSA	1.2	8.7	0.56	0.67	0.56	52.9
5	T1	161	5.0	0.201	8.4	LOSA	1.2	8.7	0.56	0.67	0.56	63.2
6	R2	26	2.0	0.201	12.9	LOS B	1.2	8.7	0.56	0.67	0.56	41.4
6u	U	1	2.0	0.201	15.3	LOSB	1,2	8.7	0.56	0.67	0.56	64.
Appro		197	5.4	0.201	9.0	LOSA	1.2	8.7	0.56	0.67	0,56	60.
East:	Airport M	ain Access										
7	L2	23	2:0	0.316	4.3	LOSA	2.0	14.0	0.49	0.64	0.49	51.
8	T1	18	2.0	0.316	4.3	LOSA	2.0	14.0	0.49	0.64	0.49	43.
9	R2	316	2.0	0.316	8.8	LOSA	2.0	14.0	0.49	0,64	0.49	53.
9u	U	1	2.0	0.316	10.6	LOS B	2.0	14.0	0.49	0.64	0.49	18.
Appro	ach	358	2.0	0.316	8.3	LOSA	2.0	14.0	0.49	0.64	0.49	52.
North	Evanda	e Road										
10	L2	403	2.0	0.439	6.1	LOSA	3.4	24.5	0.29	0.53	0.29	59.
11	T1	194	2.0	0.439	6.7	LOSA	3.4	24.5	0.29	0.53	0.29	66.
12	R2	35	20.0	0.439	11.6	LOS B	3.4	24.5	0.29	0.53	0.29	56.
12u	U	3	2.0	0.439	13.6	LOS B	3.4	24.5	0.29	0.53	0.29	
Appro	ach	635	3.0	0.439	6.6	LOSA	3.4	24.5	0.29	0.53	0.29	61.
West:	Hudson	Fysh Drive										
1	L2	57	5.0	0.105	5.6	LOSA	0.6	4.2	0.59			
2	T1	29	2.0	0.105	5.5	LOSA	0.6	4.2	0.59			
3	R2	. 7	2.0	0.105	10.0	LOSA	0.6	4.2	0.59			
3u	U	1	2.0	0.105	11.8	LOS B	0.6	4.2	0.59			
Appro	ach	95	3.8	0.105	6.0	LOS A	0.6	4.2	0.59	0.62	0.59	50
All Ve	hicles	1284	3.1	0,439	7.4	LOSA	3.4	24.5	0.41	0.59	0.41	58

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

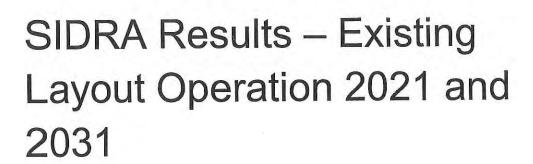
Existing.sip8

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Monday, 15 June 2020 4:07:58 PM
Project: \\000007pst01.pitt-sherry.local\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections -



Appendix C



Site: 2 [Evandale Road/ Richard Street/ Translink Avenue - Existing Layout 2021 AM Peak]

07:45-08:45 Site Category: (None) Roundabout

Mov	Tiurn	Demand		Deg.	Average	Level of		of Queue	Prop.		Aver. No. Cycles	Average Speed km/h
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate		
South	: Evanda	le Road										
4	L2	29	5.0	0.729	10.0	LOSA	9.1	68.9	0.80	0.77	0.92	54.0
5	T1	766	10.0	0.729	10.8	LOS B	9.1	68.9	0.80	0.77	0.92	60.8
6	R2	5	2.0	0.729	15.0	LOS B	9.1	68.9	0.80	0.77	0.92	54.0
6u	U	1	2.0	0.729	17.4	LOS B	9.1	68.9	0.80	0.77	0.92	63.4
Appro	ach	802	9.8	0.729	10.8	LOS B	9.1	68.9	0.80	0.77	0.92	60.
East:	Richard	Street										
7	L2	2	2.0	0.157	8.9	LOSA	0.9	9.2	0.81	0.87	0.81	47.
8	T1	12	30.0	0.157	10.1	LOS B	0.9	9.2	0.81	0.87	0.81	30.
9	R2	54	60.0	0.157	16.3	LOS B	0.9	9.2	0.81	0.87	0.81	39.
9u	U	1	2.0	0.157	15.2	LOS B	0.9	9.2	0.81	0.87	0.81	43.
Approach		68	52.2	0.157	15.0	LOS B	0.9	9.2	0.81	0.87	0.81	38.
North	: Evanda	le Road										
10	L2	79	20.0	0.636	6.8	LOS A	7.4	55.8	0.50	0.54	0.50	53.
11	T1	623	5.0	0.636	7,1	LOSA	7.4	55.8	0.50	0.54	0.50	63.
12	R2	171	15.0	0.636	11.9	LOS B	7.4	55.8	0.50	0.54	0.50	41.
12u	U	1	2.0	0.636	14.0	LOS B	7.4	55.8	0.50	0.54	0.50	65.
Appro	ach	874	8.3	0.636	8.0	LOSA	7.4	55.8	0.50	0.54	0.50	58.
West:	Translin	k Avenue										
1	L2	59	30.0	0.278	10.5	LOS B	1.9	15.9	0.89	0.91	0.89	41.
2	T1	16	60.0	0.278	11.9	LOS B	1.9	15.9	0.89	0.91	0.89	
3	R2	54	10.0	0.278	14.1	LOS B	1.9	15.9	0.89	0.91	0.89	46.
3u	Ū	1	20.0	0.278	16.4	LOS B	1.9	15.9	0.89	0.91	0.89	15.
Appro	ach ,	129	25.3	0.278	12.2	LOSB	1.9	15.9	0.89	0.91	0.89	42.
All Ma	hicles	1874	11.7	0.729	9.7	LOSA	9.1	68.9	0.67	0.67	0.72	57.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Tuesday, 16 June 2020 12:19:41 PM
Project: \\Operation=\text{POPR stot 0}\text{projects\LAU\2018\351-400\LN18383\14P} - Calculations\SIDRA\Existing\HB18383 Airport Intersections -Existing - PPR.sip8

Site: 3 [Evandale Road/ Airport Main Access/ Hudson Fysh Drive - Existing Layout 2021 AM Peak]

07:45-08:45 Site Category: (None) Roundabout

Mov	Turn	Demand		Deg.	Average	Level of	95% Back of Queue		Prop.		Aver. No.	
(D)		Total veh/h		Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Quenea	Stop Rate	Cycles	Speed km/h
South	: Evanda		7/0	VIC	9,60		VOIII	0,0				W. Lugar
4	L2	22	2.0	0.785	15.8	LOS B	11.6	84.3	0.98	1.07	1,42	48.5
5	Т1	634	5.0	0.785	16.6	LOS B	11.6	84.3	0.98	1.07	1.42	56.7
6	R2	37	2.0	0.785	21.0	LOSC	11.6	84.3	0.98	1.07	1.42	36.7
6u	U	1	2.0	0.785	23.4	LOSC	11.6	84.3	0.98	1.07	1.42	57.8
Appro	ach	694	4.7	0.785	16.8	LOS B	11.6	84.3	0.98	1.07	1.42	55.4
East:	Airport M	ain Access										
7	L2	18	2.0	0.255	7.5	LOSA	1.8	12.5	0.82	0.84	0.82	49.2
8	T1	15	2.0	0.255	7.5	LOSA	1.8	12.5	0.82	0.84	0,82	41.
9	R2	138	2.0	0.255	12.0	LOS B	1.8	12.5	0.82	0.84	0.82	50.
9u	U	1	2.0	0.255	13.8	LOS B	1.8	12.5	0.82	0.84	0.82	17.
Appro	ach	172	2.0	0,255	11.2	LOS B	1.8	12.5	0.82	0.84	0.82	49.
North:	Evanda	le Road								4		
10	- L2	240	2.0	0.736	7.8	LOSA	9.2	68.7	0.77	0.67	0.79	54.
11	T1	328	10.0	0.736	8.6	LOSA	9.2	68.7	0.77	0.67	0.79	60.
12	R2	319	10.0	0.736	13.2	LOS B	9.2	68.7	0.77	0.67	0.79	53.
12u	U	2	2.0	0.736	15.3	LOS B	9.2	68.7	0.77	0.67	0.79	63.
Appro	ach	889	7.8	0.736	10.0	LOS B	9.2	68.7	0.77	0.67	0.79	56.
West:	Hudson	Fysh Drive										
1	L2	140	30.0	0.539	14.0	LOS B	4.8	38.5	0.97	1.08	1.19	
2	T1	94	2.0	0.539	12.5	LOS B	4.8	38.5	0.97	1.08		
3	R2	41	15.0	0.539	17.7	LOS B	4.8	38.5	0.97	1,08		
3u	U	1	2.0	0.539	18.9	LOS B	4.8	38.5	0.97	1,08	1.19	43.
Appro	ach	276	18.1	0.539	14.1	LOS B	4.8	38.5	0.97	1.08	1.19	42.
A 11 A /-	hicles	2031	7.7	0.785	13.0	LOS B	11.6	84,3	0.87	0.87	1.06	53.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Tuesday, 16 June 2020 12:19:42 PM
Project: \\007pst01.pitt-sherry.loca\\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections - Existing
- PPR.sip8

₩ Site: 2 [Evandale Road/ Richard Street/ Translink Avenue - Existing Layout 2021 PM Peak]

16:30-17:30

Site Category: (None)

Roundabout

	Turn	Total		Deg.	Average	Level of	95% Back		Prop.	Effective		-
		veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/h
	Evanda	le Road										
4	L2	33	2.0	0.644	7.3	LOSA	6.3	44.9	0.65	0.61	0.65	55.8
5	T1	760	2,0	0.644	7.9	LOSA	6.3	44.9	0.65	0.61	0.65	
6	R2	6	2.0	0.644	12,5	LOS B	6.3	44.9	0.65	0.61	0.65	54.7
6u	U	1	2.0	0.644	14.9	LOS B	6.3	44.9	0.65	0.61	0.65	64.
Approa	ach	800	2.0	0.644	7.9	LOSA	6.3	44.9	0.65	0.61	0.65	63.
East: F	Richard S	Street										
7	L2	6	2.0	0.247	15.9	LOS B	1.8	13.8	1.00	0.97		
8	T1	4	2.0	0.247	15.9	LOS B	1.8	13.8	1.00	0.97		
9	R2	65	10.0	0.247	21.0	LOSC	1.8	13.8	1.00	0.97	1.00	
9u	U	1	2.0	0.247	22.2	LOSC	1.8	13.8	1.00	0.97	1.00	41.
Approa	ach	77	8.8	0.247	20.3	LOSC	1.8	13.8	1.00	0.97	1.00	42.
North:	Evanda	e Road										
10	L2	29	25.0	0.824	7.8	LOSA	14.2	102.0	0.80			
11	T1	998	2.0	0.824	7.7	LOSA	14.2	102.0	0.80	0.55		
12	R2	107	11.0	0.824	12.6	LOS B	14.2	102.0	0.80	0.55		
12u	U	1	2.0	0.824	14.7	LOS B	14.2	102.0	0.80	0.55	0.80	
Approa	ach	1136	3.4	0.824	8.2	LOSA	14.2	102.0	0.80	0.55	0.80	60.
West:	Translin	k Avenue										
1	L2	137	10.0	0.397	10.0	LOS B	2.9	21.7	0.90			
2	T1	5	2.0	0.397	9.6	LOSA	2.9	21.7	0.90			
3	R2	91	2.0	0.397	14.1	LOS B	2.9	21.7	0.90			
3ц	U	1	2.0	0.397	16.0	LOS B	2.9	21.7	0.90	0.94		
Approa	ach	234	6.7	0.397	11.6	LOS B	2.9	21.7	0.90	0.94	0.94	47
All Veh	hicles	2246	3.5	0.824	8.9	LOSA	14.2	102.0	0.76	0.63	0.77	59.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Tuesday, 16 June 2020 12:19:43 PM
Project: \\007pst01.pitt-sherry.local\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections - Existing - PPR.sip8

Site: 3 [Evandale Road/ Airport Main Access/ Hudson Fysh Drive - Existing Layout 2021 PM Peak]

16:30-17:30 Site Category: (None) Roundabout

Mov	Turn	Demand		Deg.	Average	Level of		of Queue	Prop.	Effective	Aver. No.	
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/r
South	: Evanda											
4	L2	41	25.0	0.555	12.2	LOS B	5.0	36.9	0.85	0.90	0.98	51.4
5	T1	380	5.0	0.555	11.8	LOS B	5.0	36.9	0.85	0.90	0.98	61.0
6	R2	27	2.0	0.555	16.3	LOS B	5.0	36.9	0.85	0.90	0,98	39.8
6u	U	1	2.0	0.555	18.7	LOS B	5.0	36.9	0.85	0.90	0.98	62.3
Appro	ach	449	6.6	0.555	12.2	LOS B	5.0	36.9	0.85	0.90	0.98	58.8
East:	Airport M	ain Access										
7	L2	24	2.0	0.714	18.8	LOS B	8.5	60.7	1.00	1,22	1.49	39.
8	T1	19	2.0	0.714	18.8	LOS B	8.5	60.7	1.00	1.22	1.49	34.
9	R2	334	2.0	0.714	23,3	LOSC	8.5	60.7	1.00	1.22	1.49	40.
9u	U	1	2.0	0.714	25.1	LOSC	8.5	60.7	1.00	1.22	1.49	13.
Appro	ach	378	2.0	0.714	22.8	LOSC	8.5	60.7	1.00	1.22	1.49	39.
North	: Evanda	le Road										
10	L2	426	2.0	1.015	42.2	LOS D	58.2	423.4	1.00	1.34	2.35	30.
11	T1	625	2.0	1.015	42.8	LOS D	58.2	423.4	1.00	1.34	2.35	40.
12	R2	168	20.0	1.015	48.4	LOS D	58.2	423.4	1.00	1.34	2.35	36.
12u	U	3	2.0	1.015	49.8	LOS D	58.2	423.4	1.00	1.34	2.35	40.
Appro	ach	1223	4.5	1.015	43.4	LOS D	58.2	423.4	1.00	1.34	2,35	36.
West:	Hudson	Fysh Drive										
1	L2	272	5.0	0.648	14.0	LOS B	7.0	50.6	0.96	1,14	1.33	47.
2	T1	141	2.0	0.648	13.8	LOS B	7.0	50.6	0.96	1.14	1.33	38.
3	R2	35	2.0	0.648	18.4	LOS B	7.0	50.6	0.96	1.14		
3u	U	1	2.0	0.648	20.2	LOSC	7.0	50.6	0.96	1.14	1.33	43.
Appro	ach	448	3.8	0.648	14.3	LOS B	7.0	50.6	0.96	1.14	1.33	45.
A 11 3 /-	hicles	2499	4.4	1,015	29.5	LOSC	58,2	423.4	0.97	1,21	1.79	41.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements,

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used, Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Tuesday, 16 June 2020 12:19:43 PM
Project: \\007pst01.pitt-sherry.local\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections - Existing - PPR.sip8

₩ Site: 2 [Evandale Road/ Richard Street/ Translink Avenue - Existing Layout 2031 AM Peak]

07:45-08:45 Site Category: (None)

Roundabout

Mov	Turn	Demand	Flows	Deg.	Average	Level of	Section of the section of	of Queue	Prop.	Effective	Aver, No.	
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/t
South	: Evandal	e Road										
4	L2	29	5.0	0.813	12.1	LOS B	13.4	101.5	0.92	0.85	1,14	
5	T1	861	10.0	0.813	12.9	LOS B	13.4	101.5	0.92.	0.85		
6	R2	5	2.0	0.813	17.1	LOS B	13.4	101,5	0.92	0.85		
6u	U	1	2.0	0.813	19.5	LOS B	13.4	101.5	0.92	0,85	1.14	61.6
Appro	ach	897	9.8	0.813	12.9	LOS B	13.4	101.5	0.92	0.85	1.14	58.9
East:	Richard S	Street										
7	L2	2	2.0	0.188	10.6	LOS B	1.1	11.6	0.87	0.92	0.87	46.
8	T1	12	30.0	0.188	12.1	LOS B	1.1	11.6	0.87	0.92	0.87	29.
9	R2	54	60.0	0.188	18,6	LOS B	1.1	11.6	0.87	0.92	0.87	38.
9u	U	1	2.0	0.188	16.9	LOS B	1.1	11.6	0.87	0.92	0.87	42.
Appro	ach	68	52.2	0.188	17.2	LOS B	1.1	11.6	0.87	0.92	0.87	37.
North	: Evandal	e Road										
10	L2	79	20.0	0.714	7.0	LOSA	9.9	73.8	0.59	0.53		
11	T1	736	5.0	0.714	7.2	LOSA	9.9	73.8	0.59	0.53	0.59	63.
12	R2	171	15.0	0.714	12.0	LOS B	9.9	73.8	0.59	0.53	0,59	41.
12u	U	1	2.0	0.714	14.1	LOS B	9.9	73.8	0.59	0.53	0.59	64.
Appro	ach	986	7.9	0.714	8.0	LOSA	9,9	73.8	0.59	0.53	0.59	58.
West:	Translin	« Avenue										
1	L2	59	30.0	0.340	12.3	LOS B	2.4	20.6	0,96	0.97		
2	T1	16	60.0	0.340	13.9	LOS B	2.4	20.6	0.96	0.97		
3	R2	54	10.0	0.340	15.7	LOS B	2.4	20,6	0.96	0.97	0.96	
3u	U	1	20.0	0.340	18.0	LOS B	2.4	20.6	0,96	0.97	0.96	14.
Appro	ach	129	25.3	0.340	13.9	LOS B	2.4	20.6	0.96	0.97	0.96	41.
ΔII Ve	hicles	2081	11.3	0.813	10.8	LOS B	13.4	101.5	0.76	0.71	0.86	56.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement,

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Tuesday, 16 June 2020 3:18:06 PM
Project: \\007pst01.pitt-sherry.local\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections - Existing - PPR.sip8

Site: 3 [Evandale Road/ Airport Main Access/ Hudson Fysh Drive - Existing Layout 2031 AM Peak]

07:45-08:45

Site Category: (None)

Roundabout

Mov	Turn	Demand		Deg.	Average	Level of		of Queue	Prop.		Aver. No.	
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/l
South	: Evanda											
4	L2	22	2.0	0.913	27.8	LOSC	21.7	158.3	1.00	1.36	2.16	41.
5	T1	695	5.0	0.913	28.6	LOSC	21.7	158.3	1.00	1.36	2.16	47.
6	R2	51	2.0	0.913	32.9	LOSC	21.7	158.3	1.00	1.36	2.16	30,
6u	U	1	2.0	0.913	35.3	LOS D	21.7	158.3	1.00	1.36	2.16	48.
Appro	ach	768	4.7	0.913	28.8	LOS C	21.7	158.3	1.00	1.36	2.16	46.
East:	Airport M	ain Access										
7	L2	26	2.0	0.368	8.2	LOSA	2.7	19.6	0.90	0.90	0.90	
8	T1	21	2.0	0.368	8.1	LOSA	2.7	19.6	0.90	0.90	0.90	
9	R2	179	2.0	0.368	12.7	LOS B	2.7	19.6	0.90	0.90	0.90	
9и	U	1	2.0	0.368	14.5	LOS B	2,7	19.6	0.90	0.90	0.90	17.
Appro	ach	227	2.0	0.368	11.7	LOS B	2.7	19.6	0.90	0.90	0.90	48.
North:	Evanda	le Road										
10	L2	316	2.0	0.823	9.5	LOSA	13.9	103.6	0.91	0.71	0.99	
11	T1	363	10.0	0.823	10,4	LOS B	13.9	103.6	0.91	0.71	0.99	59.
12	R2	319	10.0	0.823	15.0	LOS B	13.9	103.6	0.91	0.71	0.99	53.
12u	U	2	2.0	0.823	17.1	LOS B	13.9	103.6	0.91	0.71	0,99	62.
Appro	ach	1000	7.5	0.823	11.6	LOS B	13.9	103.6	0.91	0.71	0.99	55.
West:	Hudson	Fysh Drive										
1	L2	145	30.0	0.632	20.6	LOSC	6.2	50.8	1.00	1.19		
2	T1	84	2.0	0.632	18.9	LOS B	6.2	50.8	1.00	1.19		
3	R2	41	15.0	0.632	24.2	LOSC	6.2	50.8	1.00		1.41	
3u	U	1	2.0	0.632	25.3	LOSC	6.2	50.8	1.00	1.19	1.41	40.
Appro	ach	272	18.9	0.632	20.7	LOSC	6.2	50.8	1.00	1.19	1.41	39
All Ma	hicles	2267	7.4	0.913	18.5	LOS B	21.7	158.3	0.95	1.01	1.43	49

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Tuesday, 16 June 2020 3:22:11 PM
Project: \\007pst01.pitt-sherry.local\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections - Existing
- PPR sin8

Site: 2 [Evandale Road/ Richard Street/ Translink Avenue - Existing Layout 2031 PM Peak]

16:30-17:30

Site Category: (None)

Roundabout

Mov	Turn	erformanc Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Aver. No.	Average
ID	Helito	Total veh/h	HV %	Satn V/c	Delay sec	Service	Vehicles veh	Distance	Queued	Stop Rate		Speed km/l
South	: Evanda			- Street -								
4	L2	39	2.0	0.778	8.8	LOSA	11.1	78.8	0.82	0.68	0.88	54.0
5	T1	916	2.0	0.778	9.4	LOSA	11.1	78.8	0.82	0.68	0.88	62.
6	R2	6	2.0	0.778	14.0	LOS B	11.1	78.8	0.82	0.68	0.88	53.
6u	Ü	1	2.0	0.778	16.4	LOS B	11.1	78,8	0.82	0.68	0.88	63.
Appro	ach	962	2.0	0.778	9.4	LOSA	11.1	78.8	0.82	0.68	0.88	62.
East:	Richard S	Street										
7	L2	6	2.0	0.411	29.5	LOS C	3.4	25.5	1.00	1.06		
8	T1	4	2.0	0.411	29.5	LOSC	3.4	25.5	1.00	1.06	1.13	
9	R2	68	10.0	0.411	34.9	LOSC	3,4	25.5	1.00	1.06	1.13	
9u	U	1	2.0	0.411	35.8	LOS D	3.4	25.5	1.00	1,06	1.13	35
Appro	oach	80	8.8	0.411	34.2	LOSC	3.4	25.5	1.00	1.06	1,13	36
North	: Evanda	e Road										
10	L2	32	25.0	0.922	8.4	LOSA	25.1	180.9	1.00			
11	T1	1158	2.0	0.922	8.2	LOSA	25.1	180.9	1.00	0.53		
12	R2	111	11.0	0.922	13.1	LOS B	25.1	180.9	1.00	0.53		
12u	U	1	2.0	0.922	15.2	LOS B	25.1	180.9	1.00	0.53	1.00	
Appro	oach	1301	3.3	0.922	8.7	LOSA	25.1	180.9	1.00	0.53	1.00	59
West	: Translin	k Avenue										
1	L2	137	10.0	0.508	16.2	LOS B	4.5	33.3	1.00			
2	T1	7	2.0	0.508	15.7	LOS B	4.5	33.3	1.00			
3	R2	77	2.0	0.508	20.2	LOS C	4.5	33.3	1.00			
3u	U	1	2.0	0.508	22.0	LOSC	4.5	33.3	1.00	1.10		
Appro	oach	222	6.9	0.508	17.6	LOS B	4.5	33.3	1.00	1.10	1.22	41
All Ve	ehicles	2565	3.3	0.922	10.5	LOS B	25.1	180.9	0.93	0.65	0.98	58
A 1 7 100	T Change											

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Tuesday, 16 June 2020 3:24:29 PM
Project: \\007pst01.pitt-sherry.local\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections - Existing

- PPR.sip8

Site: 3 [Evandale Road/ Airport Main Access/ Hudson Fysh Drive - Existing Layout 2031 PM Peak]

16:30-17:30

Site Category: (None)

Roundabout

Mov	Turn	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Aver. No.	
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/h
South	: Evanda											
4	L2	41	25.0	0.686	16.3	LOS B	7.9	58.4	0.97	1.06	1,31	48.7
5	T1	427	5.0	0.686	15.8	LOS B	7.9	58.4	0.97	1.06		57.2
6	R2	36	2.0	0.686	20.2	LOS C	7.9	58.4	0.97	1.06		37.
6u	Ü	1	2.0	0.686	22.6	LOSC	7.9	58.4	0.97	1.06	1.31	58.3
Appro	ach	505	6.4	0.686	16.2	LOS B	7.9	58.4	0.97	1.06	1.31	55.
East:	Airport M	ain Access										
7	L2	32	2.0	0.848	27.0	LOS C	13.8	98.4	1.00	1.42		
8	T1	24	2.0	0.848	27.0	LOSC	13.8	98.4	1.00			
9	R2	427	2.0	0.848	31.5	LOS C	13.8	98.4	1.00	1.42		
9u	U	1	2.0	0.848	33,3	LOS C	13.8	98.4	1.00	1.42	1.93	12.
Appro	ach	484	2.0	0.848	31.0	LOS C	13.8	98.4	1.00	1.42	1.93	34.
North	: Evanda	le Road										
10	L2	546	2.0	1.165	162.3	LOS F	157.1	1138.6	1.00			
11	T1	681	2.0	1,165	162.9	LOS F	157.1	1138.6	1.00			
12	R2	168	20.0	1.165	168.4	LOS F	157.1	1138.6	1.00			
12u	U	5	2.0	1.165	169.9	LOSF	157.1	1138.6	1.00	3.11		
Appro	ach	1401	4.2	1.165	163.4	LOSF	157.1	1138.6	1.00	3.11	6.17	15.
West	Hudson	Fysh Drive										
1	L2	272	5.0	0.779	25.7	LOSC	11.1	80.1	1.00	1.38		
2	T1	141	2.0	0.779	25.5	LOS C	11.1	80.1	1.00			
3	R2	35	2.0	0.779	30.0	LOS C	11.1	80.1	1.00			
Зи	U	1.	2.0	0.779	31.8	LOS C	11.1	80.1	1.00	1.38	1.85	38.
Appro	ach	448	3.8	0.779	26.0	LOSC	11.1	80.1	1.00	1.38	1.85	38.
All Ve	hicles	2839	4.1	1.165	92.9	LOS F	157.1	1138.6	0,99	2.18	3.90	22.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com
Organisation: PITT & SHERRY CONSULTING ENGINEERS | Processed: Tuesday, 16 June 2020 3:18:07 PM
Project: \\007pst01.pitt-sherry.local\projects\LAU\2018\351-400\LN18383\14P - Calculations\SIDRA\Existing\HB18383 Airport Intersections - Existing - PPR.sio8

SIDRA Results – Proposed Layout

Appendix D

Site: 2 [Evandale Road/ Richard Street/ Translink Avenue - 2021 AM Peak]

07:45-08:45 Site Category: (None) Roundabout

Mov	Turn	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Aver. No.	
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/t
South	; Evanda	le Road										
4	L2	29	5.0	0.300	6.2	LOSA	1.9	14.5	0.45	0.52		59.9
5	T1	766	10.0	0.300	6.6	LOSA	1.9	14.5	0.47	0.54	0.47	65.9
6	R2	5	2.0	0.300	13.7	LOS B	1.8	13.9	0.48	0.56	0.48	59.
6u	U	1	2.0	0.300	16.8	LOS B	1.8	13.9	0.48	0.56	0.48	69.9
Appro	ach	802	9.8	0.300	6.7	LOSA	1.9	14.5	0.47	0.54	0.47	65.
East:	Richard 9	Street										
7	L2	2	2.0	0.114	4.2	LOSA	0.4	4.2	0.58	0.77	0.58	51.
8	T1	12	30.0	0.114	4.2	LOSA	0.4	4.2	0.58	0.77	0.58	43.
9	R2	54	60,0	0.114	11.8	LOS B	0.4	4.2	0.58	0.77	0.58	43.
9u	U	1	2.0	0.114	11.9	LOS B	0,4	4.2	0.58	0.77	0.58	49.
Appro	ach	68	52.2	0.114	10.3	LOS B	0.4	4.2	0.58	0.77	0.58	44.
North	: Evandal	e Road										
10	L2	79	20.0	0.285	5.8	LOSA	2.0	14.9	0.27	0.44	0.27	56.
11	T1	623	5.0	0.285	5.7	LOSA	2.0	14.9	0.28	0.48	0.28	67.
12	R2	171	15.0	0.285	13.0	LOS B	1.9	14.6	0.30	0.55	0.30	44.
12u	U	1	2.0	0.285	15,8	LOS B	1.9	14.6	0.30	0.55	0,30	68.
Appro	ach	874	8.3	0.285	7.1	LOSA	2.0	14.9	0.28	0.49	0.28	62.
West:	Translin	« Avenue										
1	L2	59	30.0	0.187	5.0	LOS A	8.0	6.5	0.61	0.76	0.61	
2	T1	16	60.0	0.187	5,3	LOS A	8.0	6.5	0.61	0.76	0,61	45.
3	R2	54	10,0	0.187	10,1	LOS B	8,0	6.5	0.61	0.76	0.61	54.
3u	U	1	20.0	0.187	12.5	LOS B	0.8	6.5	0.61	0,76	0.61	19.
Appro	ach	129	25.3	0.187	7.2	LOSA	0.8	6.5	0.61	0.76	0,61	49.
A11 \ /a	hicles	1874	11.7	0.300	7.1	LOSA	2.0	14.9	0.40	0.54	0.40	62.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

Site: 3 [Evandale Road/ Airport Main Access/ Hudson Fysh Drive - 2021 AM Peak]

07:45-08:45

Site Category: (None)

Roundabout

Mov	Turn	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Aver. No.	
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/h
South	Evandal	e Road										
4	L2	22	2.0	0.663	10.7	LOS B	7.4	54.1	0.85	0.88	1.04	53.2
5	T1	634	5.0	0.663	11,1	LOS B	7.4	54.1	0.85	0.88	1.04	63.9
6	R2	37	2.0	0.663	18.0	LOS B	7.4	54.1	0.85	0.88	1.04	43.0
6u	U	1	2.0	0.663	21.1	LOSC	7.4	54.1	0.85	0.88	1.04	66.5
Appro	ach	694	4.7	0.663	11.5	LOS B	7.4	54.1	0.85	0.88	1.04	62.5
East:	Airport M	ain Access										
7	L2	18	2.0	0.229	5.8	LOSA	1.3	9.5	0.71	0.79	0.71	51.4
8	T1	15	2.0	0.229	5.1	LOSA	1,3	9.5	0.71	0.79	0.71	43.9
9	R2	138	2.0	0.229	11.4	LOS B	1.3	9.5	0.71	0.79	0.71	53,8
9и	U	1	2.0	0.229	13,5	LOS B	1.3	9.5	0.71	0.79	0.71	19.8
Appro	ach	172	2.0	0.229	10.3	LOS B	1.3	9.5	0.71	0.79	0.71	52.3
North:	Evandal	e Road										
10	L2	240	2.0	0.198	6.1	LOSA	1.2	8.9	0.42	0.55	0.42	61.2
11	T1	328	10.0	0.422	6.2	LOSA	3.5	26.4	0.48	0,59	0.48	63.3
12	R2	319	10.0	0.422	13,2	LOS B	3.5	26,4	0.48	0.59	0.48	57.
12u	U	2	2.0	0.422	16.2	LOSB	3.5	26.4	0.48	0.59	0.48	67.
Appro	ach	889	7.8	0.422	8.7	LOSA	3.5	26,4	0.46	0.58	0.46	60.3
West:	Hudson	Fysh Drive										
1	L2	140	30.0	0.436	9.2	LOSA	3.6	28,9	0.93	0.94	1.00	47.3
2	T1	94	2.0	0.436	7.4	LOSA	3.6	28.9	0.93	0.94	1.00	44.
3	R2	41	15.0	0.436	14.3	LOS B	3.6	28.9	0.93	0.94	1.00	50.
3u	U	1	2.0	0.436	15.8	LOS B	3.6	28.9	0.93	0.94	1.00	49.
Appro	ach	276	18.1	0.436	9,4	LOSA	3.6	28.9	0.93	0.94	1.00	47.
All Ve	hicles	2031	7.7	0.663	9.9	LOSA	7.4	54.1	0.68	0.75	0.75	58.

Site Level of Service (LOS) Method; Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

Site: 2 [Evandale Road/ Richard Street/ Translink Avenue - 2021 PM Peak]

07:45-08:45 Site Category: (None) Roundabout

Mov	Turn	Demand	Flows	Deg.	Average	Level of	95% Back		Prop.	Effective	Aver. No.	
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/l
South	: Evanda	e Road										
4	L2	36	2.0	0.272	5.9	LOSA	1.7	12.2	0.37	0.48	0.37	61.0
5	T1	760	2.0	0.272	6.1	LOSA	1.7	12.2	0.38	0.49	0.38	68.8
6	R2	6	2.0	0.272	13.2	LOS B	1.7	11.8	0.40	0.51	0,40	59.6
6u	U	1	2.0	0.272	16.3	LOS B	1.7	11.8	0.40	0,51	0,40	70.
Appro	ach	803	2.0	0.272	6.2	LOSA	1.7	12.2	0.38	0.49	0.38	68.
East:	Richard 9	Street										
7	L2	6	2.0	0.110	4.9	LOSA	0.4	3.3	0.63	0.82		51.
8	T1	4	2,0	0.110	4.2	LOS A	0.4	3.3	0.63	0.82	0,63	44.
9	R2	65	10.0	0.110	10.8	LOS B	0.4	3.3	0.63	0.82	0.63	51.
9u	U	1	2.0	0.110	12.7	LOS B	0.4	3.3	0.63	0.82	0.63	48.
Appro	ach	77	8.8	0.110	10.0	LOS B	0.4	3.3	0.63	0.82	0.63	50.
North	: Evandal	e Road										
10	L2	29	25.0	0.367	6.0	LOSA	2.8	20.2	0.33			56.
11	T1	998	2.0	0.367	5.8	LOSA	2.8	20.2	0.34			68.
12	R2	107	11.0	0.367	13.1	LOS B	2.7	19.7	0.36			
12u	U	1	2.0	0.367	16.0	LOS B	2.7	19.7	0.36	0.51	0.36	
Appro	ach	1136	3.4	0.367	6.5	LOS A	2.8	20.2	0.34	0.48	0.34	66.
West:	Translin	Avenue										
1	L2	137	10.0	0.287	4.7	LOSA	1.2	9.2	0.61		3/13/	53.
2	T1	5	2.0	0.287	3.8	LOSA	1.2	9.2	0.61			46.
3	R2	91	2.0	0.287	10.1	LOS B	1.2	9.2	0.61	0.75		58.
3u	U	1	2.0	0.287	12.2	LOS B	1.2	9.2	0.61	0.75	0,61	19.
Appro	ach	234	6.7	0.287	6.8	LOSA	1.2	9.2	0.61	0.75	0.61	54
					6.5	LOSA	2.8	20.2	0.39	0.52	0.39	65

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements,

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

Site: 3 [Evandale Road/ Airport Main Access/ Hudson Fysh Drive - 2021 PM Peak]

07:45-08:45 Site Category: (None) Roundabout

Mov	Turn	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.		Aver. No.	
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/
South	: Evandal	e Road										
4	L2	41	2.0	0.467	8.4	LOS A	3.7	26.9	0.79	0.73	0.81	53.
5	T1	380	5.0	0.467	8.8	LOS A	3.7	26.9	0.79	0.73	0.81	64.
6	R2	27	2.0	0.467	15.7	LOS B	3.7	26.9	0.79	0.73	0.81	43.
6u	U	1	2.0	0.467	18.8	LOS B	3.7	26.9	0.79	0.73	0.81	67.
Appro	ach	449	4.5	0,467	9.2	LOSA	3.7	26.9	0.79	0.73	0.81	62.
East:	Airport M	ain Access										
7	L2	24	2.0	0.611	12.6	LOS B	5.8	41.5	0.95	1.12	1.28	44.
8	T1	19	2.0	0.611	11.9	LOS B	5.8	41.5	0.95	1.12	1.28	38.
9	R2	334	2,0	0.611	18.2	LOS B	5.8	41.5	0.95	1.12	1.28	46.
9u	U	1	2.0	0.611	20,3	LOS C	5.8	41.5	0.95	1.12	1.28	17.
Appro	ach	378	2.0	0.611	17.5	LOS B	5,8	41.5	0.95	1.12	1,28	45.
North	Evandal	e Road								A.		
10	L2	426	2.0	0.349	6.3	LOSA	2.6	18.2	0.51	0.58	0.51	60.
11	T1	625	10.0	0.534	6.5	LOS A	5.0	37.9	0.58	0.56	0.58	64
12	R2	168	10.0	0.534	13.5	LOS B	5.0	37.9	0.58	0.56	0,58	57.
12u	U	'4	2.0	0.534	16.4	LOS B	5,0	37.9	0.58	0.56	0.58	68
Appro	ach	1224	7.2	0.534	7.5	LOSA	5.0	37.9	0.56	0.57	0.56	62.
West:	Hudson	Fysh Drive										=
1	L2	272	30.0	0.611	12.0	LOS B	6.3	51.6	0.94	1.08	1.25	
2	T1	141	2.0	0.611	10.1	LOS B	6.3	51.6	0.94	1.08	1.25	
3	R2	35	15.0	0.611	17.0	LOS B	6.3	51.6	0.94	1.08	1.25	49
3ц	U	1	2.0	0.611	18.5	LOS B	6.3	51.6	0.94	1.08	1.25	47
Appro	ach	448	20.0	0.611	11.8	LOS B	6.3	51.6	0.94	1.08	1.25	45
All Ma	hicles	2500	8.2	0.611	10.1	LOS B	6.3	51.6	0.73	0.77	0.83	56

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

Site: 2 [Evandale Road/ Richard Street/ Translink Avenue - 2031 AM Peak]

07:45-08:45

Site Category: (None) Roundabout

Mov	Turn	Demand	Flows	Deg.	Average	Level of		of Queue	Prop.	Effective	Aver. No.	
ID		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/t
South	: Evandal	e Road										
4	L2	29	5.0	0.336	6.3	LOSA	2.2	16.8	0.47	0.53	0.47	59.7
5	T1	861	10.0	0.336	6.7	LOSA	2.2	16.8	0.48	0.54	0.48	65.8
6	R2	5	2.0	0.336	13.7	LOS B	2.1	16.1	0.50	0.56	0.50	59.0
6u	U	1	2.0	0.336	16.8	LOS B	2.1	16.1	0.50	0.56	0.50	69.
Appro	ach	897	9,8	0.336	6.7	LOSA	2.2	16.8	0.48	0.54	0.48	65.
East:	Richard S	Street										
7	L2	- 2	2,0	0.120	4,5	LOSA	0.4	4.5	0.61	0.79	0.61	51.
8	T1	12	30,0	0.120	4.6	LOSA	0.4	4.5	0.61	0.79	0.61	43.
9	R2	54	60.0	0.120	12.2	LOS B	0.4	4.5	0.61	0.79	0.61	43.
9u	U	1	2.0	0.120	12.2	LOS B	0.4	4.5	0.61	0.79	0,61	49.
Appro	ach	68	52.2	0.120	10.6	LOS B	0.4	4.5	0.61	0.79	0.61	43.
North	: Evandal	e Road										
10	L2	79	20.0	0.321	5.8	LOSA	2.4	17.5	0.29	0.44	0.29	56.
11	T1	736	5.0	0.321	5.7	LOSA	2.4	17.5	0.30	0.48	0.30	67.
12	R2	171	15.0	0.321	13.0	LOSB	2.3	17.1	0.31	0.54	0.31	44.
12u	U	1	2.0	0.321	15.8	LOSB	2.3	17,1	0.31	0.54	0.31	69.
Appro	ach	986	7.9	0.321	7.0	LOSA	2.4	17.5	0.30	0,49	0.30	63.
West:	Translink	Avenue										
1	L2	59	30,0	0.197	5.3	LOSA	8.0	6.9	0.63	0.78	0.63	46.
2	T1	16	60.0	0.197	5.6	LOSA	0.8	6.9	0.63	0.78	0.63	45.
3	R2	54	10.0	0.197	10,4	LOS B	0.8	6.9	0.63	0.78	0.63	54.
3u	U	1	20.0	0.197	12.8	LOS B	0.8	6,9	0.63	0.78	0.63	19.
Appro	ach	129	25.3	0.197	7.5	LOSA	0.8	6.9	0.63	0.78	0.63	49.
AHA	hicles	2081	11.3	0.336	7.0	LOSA	2.4	17.5	0.41	0.54	0.41	62.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

Site: 3 [Evandale Road/ Airport Main Access/ Hudson Fysh Drive - 2031 AM Peak]

07:45-08:45 Site Category: (None) Roundabout

Mov	Turn	Demand	Flows	Deg	Average	Level of	95% Back	of Queue	Prop.		Aver. No.	
(D)		Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/h
South	Evanda	e Road										
4	L2	22	2.0	0.753	13.6	LOS B	10.6	77.1	0.93	1.01	1.32	51.
5	, T1	692	5.0	0.753	14.1	LOS B	10.6	77.1	0.93	1.01	1.32	60.9
3	R2	47	2.0	0.753	20.9	LOS C	10.6	77.1	0.93	1.01	1.32	40.8
3u	U	1	2.0	0.753	24.0	LOSC	10.6	77.1	0.93	1.01	1,32	63.3
Appro	ach	762	4.7	0.753	14.5	LOS B	10.6	77.1	0.93	1.01	1.32	59.5
East:	Airport M	ain Access										
7	L2	23	2.0	0.306	6.3	LOSA	1.9	13.4	0.76	0,83	0.76	50.
3	T1	19	2.0	0.306	5.6	LOS A	1.9	13.4	0.76	0.83	0.76	43.
9	R2	177	2.0	0.306	11.9	LOS B	1.9	13,4	0.76	0.83	0.76	53.
9u	U	1	2.0	0.306	14.0	LOS B	1.9	13.4	0.76	0.83	0.76	19.
Appro	ach	220	2.0	0.306	10.8	LOS B	1.9	13.4	0.76	0.83	0.76	51.
North:	Evandal	e Road										
10	L2	308	2.0	0.251	6.1	LOSA	1.7	11.8	0.44	0.56	0.44	61.
11	T1	360	10.0	0.447	6.3	LOSA	3.8	28.6	0.50	0.59	0.50	63.
12	R2	319	10.0	0.447	13.3	LOS B	3.8	28.6	0.50	0.59	0.50	57.
12u	U	2	2.0	0.447	16.2	LOS B	3.8	28.6	0.50	0.59	0.50	67.
Appro	ach	989	7.5	0.447	8.5	LOSA	3.8	28.6	0.48	0.58	0.48	60.
West:	Hudson	Fysh Drive										
1	L2	140	30.0	0.517	13.2	LOS B	4.8	38.8	1.00	1.08	1.21	45.
2	T1	94	2.0	0.517	11.2	LOS B	4.8	38.8	1.00	1.08	1.21	41.
3	R2	41	15.0	0.517	18.1	LOS B	4.8	38.8	1.00	1.08	1.21	48.
3u	U	1	2.0	0.517	19.6	LOS B	4.8	38.8	1.00	1.08	1.21	46.
Appro	ach	276	18.1	0.517	13.3	LOS B	4.8	38.8	1.00	1.08	1.21	44.
A11 \ /-	hicles	2247	7.3	0.753	11.4	LOS B	10.6	77.1	0.73	0.81	0.88	57.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

Site: 2 [Evandale Road/ Richard Street/ Translink Avenue - 2031 PM Peak]

07:45-08:45 Site Category: (None) Roundabout

Mov	Turn	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.		Aver. No.	
ID	30,,,,	Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/l
South	: Evanda											
4	L2	36	2.0	0.324	5.9	LOSA	2.1	15.2	0.39	0.49	0.39	60.
5	T1	911	2.0	0.324	6.2	LOSA	2.1	15.2	0.40	0.50	0.40	
6	R2	6	2.0	0.324	13.3	LOS B	2.1	14.7	0.42	0,51	0.42	59.
6u	U	1	2.0	0.324	16.4	LOS B	2.1	14.7	0.42	0.51	0.42	70.
Appro	ach	954	2.0	0.324	6.2	LOSA	2.1	15.2	0.40	0.50	0.40	68.
East:	Richard 8	Street										
7	L2	6	2.0	0.118	5,3	LOSA	0.5	3.6	0.66	0.84	0.66	
8	T1	4	2.0	0.118	4.6	LOSA	0.5	3.6	0.66	0.84	0.66	
9	R2	65	10.0	0.118	11.3	LOS B	0.5	3.6	0.66	0.84	0.66	50.
9u	U	1	2.0	0.118	13.1	LOS B	0.5	3.6	0.66	0.84	0.66	48.
Appro	bach	77	8.8	0.118	10.4	LOS B	0.5	3.6	0.66	0.84	0.66	50.
North	: Evanda	le Road										
10	L2	29	25.0	0.418	6.0	LOSA	3.4	24.6	0.35	0.45		
11	T1	1156	2.0	0.418	5.8	LOSA	3.4	24.6	0.37	0.48		
12	R2	107	11.0	0.418	13.1	LOS B	3.3	23.9	0.38	0.51	0.38	45.
12u	U	1	2.0	0.418	16.0	LOS B	3.3	23.9	0.38	0.51	0.38	69.
Appro	oach	1294	3.3	0.418	6.5	LOSA	3.4	24.6	0.37	0.48	0.37	66.
West:	Translin	k Avenue										
1	L2	137	10.0	0.308	5,1	LOSA	1.3	10.0	0.65	0.79		
2	T1	5	2.0	0.308	4.1	LOSA	1.3	10.0	0.65	0.79		
3	R2	91	2.0	0.308	10.4	LOS B	1.3	10.0	0.65	0.79		
3u	U	1	2.0	0.308	12.5	LOS B	1.3	10.0	0.65	0.79	0,65	
Appro	oach	234	6.7	0.308	7.2	LOSA	1.3	10.0	0,65	0.79	0.65	54.
	hicles	2558	3.3	0.418	6.5	LOSA	3.4	24.6	0.41	0.53	0.41	65

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

Site: 3 [Evandale Road/ Airport Main Access/ Hudson Fysh Drive - 2031 PM Peak]

07:45-08:45 Site Category: (None) Roundabout

Mov	Turn	Demand		Deg.	Average	Level of	95% Back		Prop.		Aver. No.	Average
ID			Satn v/c	Delay sec	Service	e Vehicles veh	Distance m	Queued	Stop Rate	Cycles	Speed km/h	
South	: Evandal	e Road										
4	L2	41	2.0	0.589	11.3	LOS B	6.1	44.0	0.92	0.94	1.10	52.7
5	T1	427	5.0	0.589	11.7	LOS B	6.1	44.0	0.92	0.94	1.10	63.2
6	R2	36	2.0	0.589	18.6	LOS B	6.1	44.0	0.92	0.94	1.10	42.5
6u	U	1	2.0	0.589	21.7	LOS C	6.1	44.0	0.92	0.94	1.10	65.7
Appro	ach	505	4.5	0.589	12.2	LOS B	6.1	44.0	0.92	0.94	1.10	60.9
East:	Airport Ma	ain Access										
7	L2	32	2.0	0.854	29,0	LOS C	13.8	98.0	1.00			
8	. T1	24	2.0	0.854	28.3	LOS C	13.8	98.0	1.00	1,50		
9	R2	427	2.0	0.854	34.6	LOS C	13.8	98.0	1.00	1.50		
9u	U	1	2.0	0.854	36.8	LOS D	13.8	98.0	1.00	1.50		
Appro	ach	484	2.0	0.854	34.0	LOS C	13,8	98.0	1.00	1.50	2.14	34.8
North	: Evandal	e Road										
10	L2	546	2.0	0,445	6.5	LOSA	3.6	25.6	0.57	0.60		
11	T1	681	10.0	0.576	6.6	LOSA	5.7	43.0	0.62	0.57		
12	R2	168	10.0	0.576	13.7	LOS B	5.7	43.0	0.62	0.57	0.62	57.
12u	U	4	2.0	0.576	16.5	LOS B	5.7	43.0	0.62	0.57	0.62	67.
Appro	ach	1400	6.9	0.576	7.5	LOSA	5.7	43.0	0.60	0.58	0.60	61.
West:	Hudson	Fysh Drive								*		
1	L2	272	30.0	0.729	20.9	LOSC	9.6	78.4	1.00			
2	T1	141	2.0	0.729	18,8	LOS B	9.6	78.4	1.00	1.32		
3	R2	35	15.0	0.729	25.8	LOS C	9.6	78.4	1.00	1.32		
3u	U	1	2.0	0.729	27.2	LOSC	9.6	78,4	1.00		Huge to the same of the same o	42.
Appro	ach	448	20.0	0.729	20.6	LOSC	9.6	78.4	1.00	1.32	1.67	40.
All Ve	hicles	2838	7.7	0.854	14.9	LOS B	13.8	98.0	0.79	0.92	1.12	51.

Site Level of Service (LOS) Method: Delay (SIDRA). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Roundabout LOS Method: SIDRA Roundabout LOS.

Vehicle movement LOS values are based on average delay per movement.

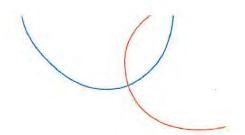
Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used, Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

pitt&sherry



Evandale Main Road Duplication – Launceston Airport to Breadalbane

Pitt & Sherry (Operations) Pty Ltd ABN 67 140 184 309

Phone 1300 748 874 info@pittsh.com.au pittsh.com.au

Located nationally —
Melbourne
Sydney
Brisbane
Hobart
Launceston
Newcastle
Devonport
Wagga Wagga



Contact

Leenah Ali-Lavroff (03) 6210 1419 lali@pittsh.com.au

Appendix F

Title Details



RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980

VOLUME

FOLIO

SEARCH OF TORRENS TITLE

EDITION 143903

DATE OF ISSUE 24-Jul-2019

GRANTEE PART OF 582*3"0"GTD. TO JOHN SINCLAIR.

OWNER TASMANIAN TRUSTEES LIMITED FOLIO REFERENCE (C.T.132214-1)



RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980

Registered Number

LAND DISTRICT OF CORNWALL PARISH OF BREADALBANE CONVERTED BY PLAN No P.108671 COMPILED BY G.J. WALKEM & CO. PLAN OF TITLE

LENGTHS IN METRES APPROVED 26 MAY 2005 P143903 Recorder of Titles

ALL EXISTING SURVEY NUMBERS TO BE CROSS REFERENCED ON THIS PLAN

BALANCE PLAN

SKETCH BY WAY OF ILLUSTRATION : ONLY "EXCEPTED LANDS"

UPI No

NOT TO SCALE

ESCRIPTION OF LAND

SEARCH TIME : 04.31 PM SEARCH DATE : 26-Jun-2020

Parish of BREADALBANE Land District of CORNWALL Lot 1 on Plan 143903

Excepting thereout See Plan Being the land secondly described in Assent No. 42/4552

Derivation : Part of 582A-23R-0Ps Gtd to J. Sinclair

Derived from A14059

LOTS 1,2 &3 (SPI43771) 60:73 ha

Prior CT 132214/1

CHEDULE 1

C442149 APPLICATION: THE CROWN Registered 24-Jul-2019 at noon

CHELLOLE 2

Reservations and conditions in the Crown Grant if any

JUREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

Search Time: 04:35 PM

Search Date: 26 Jun 2020

Page 1 of 1

Revision Number: 01

HATCHED PORTIONS

1354-32PJ

[S.P. 21957]

[S.E 17121]

ENLARGEMENT

143771 VOLUME

EDITION

DATE OF ISSUE 24-Jul-2019

SEARCH OF TORRENS TITLE

Tasmanian Government

FOLIO ω

Our Ref: 04.475

1400

10th May 2005

Land Titles Office GPO Box 541 HOBART TAS 7001

GEOGRAPHIC INFORMATION SERVICES GISIGPS

CHEDULE 1

Prior CT 132214/1

C442149 APPLICATION: THE CROWN Registered 24-Jul-2019 at noon

CHEDULE 2

MREGISTERED DEALINGS AND NOTATIONS

Reservations and conditions in the Crown Grant if any

No unregistered dealings or other notations

STRATA TITLE SUBDIVISION

AUTHORISED LAND, MINING & ENGINEERING SURVEYORS, PLANNERS

GJ WALKEM&CO DIVISION OF BULLOCK CONSULTING JBN 27 OLL 609 500

SEARCH TIME : 04.36 PM SEARCH DATE : 26-Jun-2020

DESCRIPTION OF LAND

Parish of BREADALBANE Land District of CORNWALL

Lot 3 on Sealed Plan 143771

Derivation : Part of 582A-23R-0Ps Gtd to J. Sinclair

Dear Sir

SP143771 - BALANCE TASMANIAN TRUSTEES LTD - C.T. 132214/1

Enclosed is the requested balance plan for this survey.

The balance land left appears to be Evandale Road. I have not put an area on the balance as the title showed 58.03ha and my survey was 60.43ha.

Yours faithfully G J WALKEM & CO

1-560

Enc

RVT.NLD

Registered Land Surveyor

LAND TITLES OFFICE 1 1 MAY 2005

Telaphone (03) 0331 2999 (03) 6334 1409 268 York Street PO Box 63 Riverside Tasmania 7250

10 Strakun Strakt Burnle Pht (03) 8431 3000 Ollices also at: Burnie

mali no@walkem.com.sı

Ph: (03) 6471 1018

Page 1 of 1

Search Date: 26 Jun 2020

Search Time: 04:35 PM

Volume Number: 143903

Revision Number: 01

Page 1 of 1

Tasmanian Government

OWNER GRANTEE PART OF 582"3"0" GRANTED TO JOHN SINCLAIR FOLIO REFERENCE C.T.132214-1 CODE No 123 (5040-55) TASMANIAN TRUSTEES LIMITED LAST GEQUE LAND DISTRICT OF CORNWALL PARISH OF BREADALBANE LOCATION BY SURVEYOR SCALE 1:5000 PLAN OF SURVEY No P.132214 R. V.TAIT LENGTHS IN METRES ALL EXISTING SURVEY NUMBERS TO BE CROSS REFERENCED ON THIS PLAN EFFECTIVE FROM 2 6 MAY 2005 SP143771 REGISTERED NUMBER Recorder of Titles

DAOA ZAGRAS

ENLARGEMENT 'A'

THOMPA EASEMENT. 3.00 MDE (P.132214) (SPI08432)

ENLARGEMENT 'B'

10.87 256'31'00"

ROAD ω

3042 m²

233'10'40"

SEE ENLARGEMENT'B' CHOST

1-561

(S.P.7189)

(S.P.)17653)

26.00 ha (INC. HATCHED PORTION)

andras. ~(37,85) 28.4.05

PORTION) 34.43 ha

(P.132214)

THE SCHEDULE MUST BE SIGNED BY THE OVINERS & MORTGAGEES OF THE LAND AFFECTED. SCHEDULE OF EASEMENTS

NOTE:

SP 143771

Registered Number

PAGE 1 OF 1 PAGE/S

EASEMENTS AND PROFITS Each lot on the plan is together with:-SIGNATURES MUST BE ATTESTED.

such rights of drainage over the drainage easements shown on the plan (if any) as may be necessary to drain
the stormwater and other surplus water from such lot; and
 any easements or profits a prendre described hereunder.

Each lot on the plan is subject to:-

 such rights of drainage over the drainage easements shown on the plan (if any) as passing through such lot as
may be necessary to drain the stormwater and other surplus water from any other lot on the plan; and (2) any easements or profits a prendre described hereunder.
 The direction of the flow of water through the drainage easements shown on the plan is indicated by arrows.

Provision Fencing Covenant

In respect of Lots 1 and 2 on the plan the Vendor Tasmanian, Trustees Limited shall not be required to fence.

rapetual

Lot 2 on the plan is subject to a right of drainage over the drainage easement 3.00 wide shown on the plan and also shown on Plan No. 132214 appurtenant to Lots 1 and 2 on Sealed Plan No. 108432.

marked "right of way" on the plan and on Plan No. 132214 appurtenant to Lot 1 on Plan No. 131880. Lot 2 on the plan is subject to a Right of Carriage Way over that portion of Lot 2 which is also shown and

registered proprietor of the land comprised in Folio of the Register Volume 132214 THE COMMON SEAL of TASMANIAN PERPETUAL TRUSTEES LIMITED as Folio 1 was hereunto affixed in the presence of:



Avinousia Office Authorised Officer:

USE ANNEXURE PAGES FOR CONTINUATION

SOLICITOR Shields Heritage & REFERENCE: Mrs. J. French SUBDIVIDER: Tasmanian Perpetual Trustees Ltd. FOLIO REF: C.T. 132214 / 1

> DATE: 28-4-05 97/003/346 PLAN SEALED BY:

mondo. Council Delegate

NOTE: The Council Delegate must sign the Certificate for the purposes of identification.

REF NO.

Search Date: 26 Jun 2020

Search Time: 04:39 PM

earch Date; 26 Jun 2020

Search Time: 04:39 PM

Volume Number: 143771

Revision Number: 01

.......

Page 1 of 1

COUNCIL DELEGATE

DATE

(0.108672)

nt of Drime

Volume Number: 143771

Revision Number 01

Page 1 of 1

USED AS PART OF THIS SURVEY

DESCRIBE BY REPORT THE EVIDENCE USED TO DETERMINE BOUNDARIES

SHEET 1 OF 2 SHEETS

SURVEY NOTES

Survey Notes by surveyor R.V. Tait

AND DISTRUCT OF LORN WALL

RECORDER OF TITLES

Roderick Vincent Tait of SURVEY CERTIFICATE

SP143771

Townratio o ragistered surveyor HEREMY CERNEY that.

(a) this survey is board upon the best evidence that the (b) attact of the case admits the best evidence from surveys (b) the survey nations have been truly compiled from surveys made by the or made under my supervision; and (c) this survey and accompanying survey notes comply with the relevant legislation affecting surveys and are correct for the purpose required. Launceston

Surveyors Reference: 04-475 112/04

DATUM is MICH por G.PS with SPM RUSS asorige

Survey commenced: 4-11-04 campleted: 24/11/4
The apparent age of all old marks fand is
eonsistent with their altributed origon

Part of 582 - 3-0. granted to . John Sinclair

PARISH OF BREADALBANE

asmanian Trustees Limited -owner

CT 137 24-1

EVANDALE

10.00 E 516 707 514 10.00 NS AD 158 677 10.00 BB BB 5

out the gard

ROAD

E P.M. 52 Airport permonant Mark.

SURVEY NOTES

Tasmanian Government

RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980 OWNER: Tasmonian Trustees Limited Folio REFERENCE: CT 132214-1.

Registered Number

191.515 43 610-68,10 141, 37,11, 103.483 323:12/09 USED AS PART OF THIS SURVEY SHEET 2 OF 2 SHEETS ANNEXURE SHEET w 147.160 24° chale 5, 45 1-030 (SENESTS) EVANDALE 015-889 61°45's 9.121po (376ps 23 6 54 33 256 30 56 H 555 14101/05 228'226 136.950 126-316 38 (SP108432) 3 (see sheet) THIS ANIEXURE SHEET FORMS PART OF THE ATTACHED PLAN. THE SURVEYORS CERTIFICATE EXTENDS TO THE DETAILS ON THIS SHEET ANIEXT AND LOCK \$\frac{1}{2}\frac{1}{2 58108432 Atp"53'23" Adopted 143.51.13 05 (0108672) DW 1 031 53° 03 109.858 (D32086) (SPD164) (SP108432) 62.329 489.236 adapted por various surveys as shown. Boundaries per this sorvey and 2 34.43ha Elc In 191600 ROAD. 141 0 40 42 254-345) 244-190) SP14377 LENGTHS IN METRES 141 45 577 Adapted per rapeg D.J. McCulloch 58 381.098 Post 235' 18" P# ~ (0108672) 59 2 35 pd w 250 905.

1,⊣562

(SOHOEI 95) 3 12 15 45 (5130405)

For

2 33

264.987

137.848 Dag 49.15

5811975

Slogker

191.515

Pow

89.019

93:367

3260

O.LP(SPIMPST)

357.859,

0

BORAL

J. Spike

ES.

SP130405

166.29.23 210.5770) 165.36.00 210.53000 0 + 0.53.23"-0.013. 0

26-00 ha.

07' 538.510 To

P 132214

4198

(SPHES)

342.0

18.693

post &

3 03.507

2320

RAAD

(8P2195B)

3

ROAD.

2012346 33'26" 6)

85.476(c) 85.515/epig

56°00'50 93.0416) 43°32'55 93.064pa A10 27'55 -0.023

6131680.

(2611 15)

189.220 S

Repag. G. J. Wolkow 31-5-89

Search Time: 04:39 PM

58117653.

6

40 SOM 653.

D108672)

324 147.160

636 .396 Tof. (C)

earch Date: 26 Jun 2020

(SP35133)

(58117653)

Volume Number: 143771

Revision Number: 01

Page 1 of 2

Search Date: 26 Jun 2020 Search Time: 04:38 PM

Page 2 of 2

18/05 '05 12:11 FAX 03 6334 1409

RECORDER OF TITLES Issued Pursuant to the Land Titles Act 1980 COCHOIT OFFICE TOTAL

SP143771 Registered Number

COUNCIL APPROVAL

(Insert any qualification to the permit under section 83(5), section 109 or section 111 of the Local Government (Building & Miscellaneous Provisions) Act 1993)

The subdivision shown in this plan is approved

DWNER

TASMANIAN TRUSTEES LIMITED

GRANTEE PART OF 582" 3"0" GRANTED TO

PARISH OF BREADALBANE

APPECIATE FROM

SP14377

Registered Number

SY SURVEYOR R.V.TAIT

PLAN OF SURVEY

FOLIO REFERENCE C.T.132214-1

has been affixed, pursuant to a resolution of the Council of the said municipality 2005 , in the presence of us Council Reference 27/205/346

NOMINATIONS

Council Delegate MMChrony (General manager) MMChrony Member (mryor) . Ohino Populy In witness whereof the common seal of

passed the 28th day of APRIL

For the purpose of Section 88 of the Local Government (Building & Miscellaneous Provisions) Act 1993 the owner has nominated

G.J. WALKEM & CO. ARCHER BUSHBY Surveyor to act for the owner Solicitor to act for the owner

1-563

Computed . Pagrounding

indexed

OFFICE EXAMINATION:

search Date: 26 Jun 2020

Search Time: 04:39 PM

Volume Number: 143771

Revision Number: 01

Page 1 of 1

Examined Actionmy 12[5]05

WAPSHEET MUNICIPAL CODE No 123 54'39'10"-(0.108672) 256'31'00" 26.00 ha SCALE 1: 5000 (S.P.21958) 34.43 ha No P.132214 (P.132214) LENGTHS IN METRES CROSS REFERENCED ON THIS PLAN 3042 m² COUNCIL DELEGATE ω CHON ZHOWNS ENLARGEMENT'B' DATE

Search Date: 26 Jun 2020

lenariment of Primary Industries Parks Water and Environment

Search Time: 04:39 PM

Volume Number: 143771 Revision Number: 01

Page 1 of 1



BEARCH TIME : 04.39 PM SEARCH DATE : 26-Jun-2020

DESCRIPTION OF LAND

Parish of BREADALBANE Land District of CORNWALL

Derivation : Part of 324 Acres Gtd to Thomas Gee

CHEDULE 1

C441505 APPLICATION: THE CROWN

Registered 21-Jun-2007 at

noon

Prior CT 21958/2

Lot 1 on Plan 148609

CHECHE 2

Reservations and conditions in the Crown Grant if any

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980

VOLUME

FOLIO

OWNER: FATRICIA MAY NEWTON, EDWARD ELWELL NEWTON, ALEXANDER MCGREGOR

EDITION 148609

DATE OF ISSUE 21-Jun-2007

CODE No 123 /5040 -55

LAST UPI No

FOLIO REFERENCE: FR. 21958 - 2, FR. 34101 - 1 FR. 34101 - 2

SEARCH OF TORRENS TITLE



Tasmanian Government

RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980

BY SURVEYOR LOCATION PLAN OF SURVEY LAND DISTRICT OF CORNWALL M.R.ROSE OF 2/3 WALDEN STREET, NEWSTEAD 7250

> REGISTERED NUMBER P148609

PARISHES OF BREADALBANE & PERTH APPROVED EFFECTIVE FROM -5 JUN 2007

LENGTHS IN METRES ALL EXISTING SURVEY NUMBERS TO BE CROSS REFERENCED ON THIS PLAN

LAST PLAN: SP 21958 SP 34101

SCALE 1: 800

LOT 4 IS COMPILED FROM FR 34101 - 2 AND THIS SURVEY LOT 6 IS COMPILED FROM FR 21958 - 2 AND THIS SURVEY LOT 5 IS COMPILED FROM ER 34101-1 AND THIS SURVEY (S.P.150770) EASEHENT MITTEL 321-25' 20.00 [SP 129904]

(SP 7189)

7HE CROWN (C.441506) EVANDALE [SP 129994]

(SP 3344) (SP 64958)

ISP 341011 5763m²

6368m2

(SP 139030)

SNHOP

STREET

(SP 34101)

(SP 140859)

(5P 3410))

7098m2 (SP 21958)

156.54

(SP (10112)

RICHARD ST

(SP 136826)

INREGISTERED DEALINGS AND NOTATIONS No unregistered dealings or other notations

Page 1 of 1

Search Date: 26 Jun 2020

Volume Number: 148609

BORAL

(SP 21958)

ROAD

Search Time: 04:40 PM

Revision Number: 01

Page 1 of 1

al coiner mars are et's unless otherwise stown. All boundaries are dyen unless otherwise shown. The age dy the marks folmo appears consistent with the origin noted.

CROSS REFERENCE PLAN NUMBERS
USED AS PART OF THIS SURVEY SHEET 1 OF | SHEETS SURVEY NOTES

DESCRIBE BY REPORT THE EVIDENCE USED TO DETERMINE BOUNDARIES

P148609 Registered Number

in Tasmania a registered land surveyor HEREBY CERTIFY that:

MICHAEL R. ROSE

NEWSTEAD.

SURVEY CERTIFICATE

lal this survey is based upon the best evidence that the nature of the case admits

REBRET Max datum per SP. 141987

H.S. 7, 8.9, 10, 11 & 12 fixed per SR 219518 applying HEAL A 11°10'115". 8, 9 & 12 Not worked being

8,9 & 12 not worked being

5-6 fixed on road widening alignment per SRT189 ENº10'40"

(5P.7189)

CA11° 10'40" SP(7189) PAW, 30-18-5

A. McGregor - OWNER

CT. 34101-2

within proposed road widewing.

148609 VOLUME SEARCH OF TORRENS TITLE FOLIO

SEARCH TIME : 04.40 PM EARCH DATE : 26-Jun-2020

DESCRIPTION OF LAND

Parish of BREADALBANE Land District of CORNWALL Derivation : Part of 324 Acres Gtd. to Thomas Gee. Lot 2 on Plan 148609 Prior CT 34101/1

SCHEDULE 1

C441505 APPLICATION: THE CROWN noon Registered 21-Jun-2007 at

CHEDULE 2

Reservations and conditions in the Crown Grant if any

INREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

				1-56	5
187-08 30" 212-583 cala SP 1958 doctor A11"10 175" Adopted mean difference bepiles per SP. 21958 in vicinity of @ a due to resealing.	Compation 3a-1a. (1987-32/39" 405:401 calc. SONCY 1887-32/34" 405:401 calc. 58 21958 (1987-32/34" 31-16.		strucy communicated strik-look to completed strik-look closing error - mil	Mar Keele fector 0.99803 Mar Height fector 0.999973 Combined fector 0.999576 Coord origin for 5011 is 504.8435 KM.3	
ed mean	11 calc. 50 01 calc. 5	Francisco de Cartes de Car	8-2006	999603 .999973 .999576	TABATZ
167-08 50" 212-683 calc. SP 21958 doctor. A.11"10"24" A.11"10"15" Adopted mean difference O.spiles par sl. 21956 in vicinity of @ not found other to resealing.	ede 50,21958 \$11910,05"	245,005,27	PM & EE	CT. 34:01-1 PM # EE ALLUTON - DWARDS PM # EE ALLUTON - DWARDS (SF 2-958)	(50.34.01)
(5)	Mah batun le-ld 315 425 430 39103 xy & pun 50 141087	10.09 (540, 942, 285) 80RAL ROAD	Upu -owners	54.0	102.097 ct. bal. 2360
(SP. 146557) SP/18435 RM3() SP/18435 RM3() SP/184357/)	16-14 59/(c) sy.		10.726	244.09 04.65 d	0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	267.2	653.98 N. 8. E. A. 814	066	95 E 9 43.407	36- 191
10 th	09° 251.341	\$55.563 35.563	25, 29, 750, -22 -23 WHIN] OF KE	EVANIDALE	of cele.
	-	-04	Soll Care State	(ප්දු 9% (ප්ර	51.288 Cocked that 516.211.697 5403722.835

earch Date: 26 Jun 2020

Search Time: 04:40 PM

Volume Number: 148609

Page 1 of 1

EDITION DATE OF ISSUE 21-Jun-2007

b) the survey notes have been truly complete from surveys made by me or made under my supervision; and let his survey and accompanying survey notes comply with the relevant legislation affecting surveys and are correct from Date 12 9 2006 Surveyors Reference: 923

OWNER: PATRICIA MAY NEWTON, EDWARD ELWELL NEWTON,

ALEXANDER MCGREGOR

LOCATION BY SURVEYOR

GRANTEE: PART OF 813 - 27 - 19p-GRANTED TO-WELLHAY: KITSON, PART OF 324 ACRES FOLIO REFERENCE: FR. 21958 - 2, FR. 34101 - 1
FR. 34101 - 2

GRANTED TO THOMAS GEE

SCALE 1: 800

LAST PLAN: SP 21958 SP 34101 LENGTHS IN METRES

CROSS REFERENCED ON THIS PLAN

PARISHES OF BREADALBANE & PERTIT

LAND DISTRICT OF CORNWALL

EFFECTIVE FROM

-5 JUN 2007

Muce

M.R.ROSE OF 2/3 WALDEN STREET, NEWSTEAD 7250

CODE No 123 /5040 - 55

LAST UPI NA

LOT 6 IS COMPILED FROM FR 21958 - 2 AND THIS SURVEY

(S.P. 150770)

EASEMENT MIDELY

村村

[SP 129904]

321*25* 20,00

655m²
7HE CESW
(C.44450)

(SP 7189)

LOT 5 IS COMPILED FROM FR 34101 - 1. AND THIS SURVEY LOT 4 IS COMPILED FROM FR 34101 - 2 AND THIS SURVEY

RECORDER OF TITLES ssued Pursuant to the Land Titles Act 1980

PLAN OF SURVEY

4406H

REGISTERED NUMBER P148609

Tasmanian Government

RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980

Registered Number

ALL CONER MARKS ARE CP'S UNLESS OTHERVISE SHOWN, ALL BOUNDARIES ARE OPEN WALESS OTHERVISE SHOWN. THE AGE OF THE MARKS FOUND APPEADS CONSISTENT WITH THE ORIGIN NOTED. DESCRIBE BY REPORT THE EVIDENCE USED TO DETERMINE BOUNDARIES P148609 in Tasmania a registered land surveyor HEREBY CERTIFY that (a) this survey is based upon the best evidence that the matter of the case adults a triple ability adults are surveys to the survey animal however the surveys made by the or made when my supervision; and (c) this survey and accompanying survey notes comply with the relevant legislation affecting surveys and are correct for the purpose required. MICHAEL R. ROSE SURVEY CERTIFICATE NEWSTEAD

Mutaba

REPORT Max datum per 59. 141987

USED AS PART OF THIS SURVEY

SHEET 1 OF | SHEETS SURVEY NOTES

mean & 11º10'15.

Surveyors Reference: 923

45, 7, 8, 9, 10, 11 \$ 12 fixed per 59, 213518 applying 8,9 at 12 not marked being

5-6 fixed on read vildening alignment per SRT189 11010 40 within proposed road widening. ±0.09 5401509.372 96-12 ct. bad (G)

(SP. 7185)

Mak Reight factor 0.999973 MCA Scale factor 0-999603 is SPM. 8435 RM.3 Combined factor 0.999576 survey commenced Coord origin for sell SNHOL TABATE (A11°10'40" SP.7189) (SE 2-1958) A. Macriegor - owner OF 34101-2 (SP. 34101) PM & EE Newton- owners CT. 34101-1 02.097 ct. bal 110-867 ct. bad 655m2 6 (2) RM 0/5 3JAC LANDALE 515.288 Cocked Hat 5403722.835 LAIAM bex soucons (SP.136826)

Rapag by 05 Walkers PM & EE NewYou - owners CT. 21958 -2 ₹ | * 195,75

1-566

(SP 34101) 5763m2

EVANDALE

(SP 129504)

(SP 139030

SNHOR

6368m² (SP 34101)

Chapan A

(TYEE 45) (SP 64958)

STREET

6.50 56*00'

(SP 140859)

closing error - wil

221 m2

KD.

6

The Cimise

& completed 24-8-2006

QADR

(SP 34,101)

7098m2 (SP 2(958)

156°54

(SP 110112)

RICHARD ST

(SP (36826)

24505 21" 126.111 to.09 (5401 382. 299) BORAL ROAD

MGA Datum le- ld

Compation 32-14.
129*32*39" 405.401 calc. Survey
128*22*34" 405.401 calc. 58.21958 6.11010.05"

Carry Carry

Comparison 3a-1c.

325°14'55"282-39(10) svy. (SR 146537)

画 SAN 8436 141031

(b) 8 pt. 111 5P18438 (NO) 60 THT: 879 0.815 3041. 45 510 THT: 879 Par 8F.146537 (SP.146537/1) (5 Holl 139.063) Par 8F.146537

0. spikes per sp. 2195% in vicinity of 10 not found

due to residing.

167 08 30" 212.583 cale. SP. 21958 £ Ortw. All'01624 1 11º10'15" Adopted mean difference 178'18'54" Z12.578 cate survey

267-32,

Tasmanian Government

search Date; 26 Jun 2020 at of Driman Industriae Darke Water and Environment Search Time: 04:40 PM

Volume Number: 148609

BORAL

ROAD

[SP 21958]

Revision Number: 01

manus thaliat tan man as

Page 1 of 1

Search Date: 26 Jun 2020

Search Time: 04:40 PM

Volume Number: 148609 Revision Number: 01

Page 1 of 1

Alia 15.4 4.

Tasmanian Government

SEARCH OF TORRENS TITLE

FOLIO ω

148609 VOLUME

EDITION

DATE OF ISSUE 21-Jun-2007

	1	0
		6
		ı
		ŀ
ı		L
l		ISSUBU
		nan.
١		
		SUC
		-uisuain i
1		Ö
П		

of the Local Government (Building & Miscellaneous Provisions | Act 1993) (Insert any qualification to the permit under section B3(5), section 109 or section 111 COUNCIL APPROVAL

The subdivision shown in this plan is approved

1	U
1	_
1	4
1	8
1	0
1	0
1	9
1	
-1	

Registered Number

has been affixed, pursuant to a resolution of the Council of the said municipality in witness whereaf the common seal of

Member Member

passed the

day of

20 , in the presence of us

Council Delegate

Council Reference

NOMINATIONS

1-56

For the purpose of section 88 of the Local Government (Building & Miscellaneous Provisions) Act 1993 the owner has nominated

Solicitor to act for the owner

MICK ROSE Surveyor to act for the owner

OFFICE EXAMINATION: indexed

Computed (4).5/6/07....

DESCRIPTION OF LAND

EARCH DATE : 26-Jun-2020 EARCH TIME : 04.40 PM

Parish of BREADALBANE Land District of CORNWALL Lot 3 on Plan 148609 Derivation : Part of 324 Acres Gtd to T Gee

Prior CT 34101/2

CHEDULE 1

C441506 APPLICATION: THE CROWN Registered 21-Jun-2007 at 12, 01 PM

CHEDULE 2

Reservations and conditions in the Crown Grant if any

INREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

search Date; 26 Jun 2020

many thatlat tan you are

Page 1 of 1

OWNER: PATRICIA MAY NEWTON, EDWARD ELWELL NEWTON, ALEXANDER MCGREGOR

BY SURVEYOR LOCATION

PLAN OF

SURVEY

44064

REGISTERED NUMBER P148609

GRANTEE: \$ART-05-8ta 21-19p-6RANTED TO -DLIO REFERENCE: FR. 21958 - 2, FR. 34101 - 1 FR. 34101 - 2

GRANTED TO THOMAS GEE WILLIAM WITSON, PART OF 324 ACRES

LOT 6 IS COMPILED FROM FR 21958 - 2 AND THIS SURVEY

(S.P. 150770)

EASEMENT MITTEE T

(SP 129904)

321"25" 20.00

7HE CROWN (C.441506)

[SP 7189]

LOT 4 IS COMPILED FROM FR 34101 - 2 AND THIS SURVEY LOT 5 IS COMPILED FROM FR 34101 - 1 AND THIS SURVEY

CODE No. 123 /5040 -65

LAST UPI No

FET 94 4700475

LAST PLAN: SP 21958 SP 34101 LENGTHS IN METRES

CROSS REFERENCED ON THIS PLAN

SCALE 1: 800

PARISHES OF BREADALBANE & PERTIP

LAND DISTRICT OF CORNWALL

APPROVED EFFECTIVE FROM

-5 JUN 2007

Alice

Z/3 WALDEN STREET, NEWSTEAD 7250

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980

Tasmanian Government

RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980

Tasmanian Government

CROSS REFERENCE PLAN NUMBERS
USED AS PART OF THIS SURVEY
LISED TO DETERMINE BOUNDARIES
ALL COMBET MARKS AFT OF Y MARKS OFFINALS SURVEY
THE AGE OF THE MARKS FOUND APPEARS CONSITENT WITH THE DIREM HOTEL. P148609 Registered Number In Tasmonia a registered land surveyor HEREBY CERTIFY that lal this survey is beend upon the best evidence that the induce of the case admits of the survey hares have been truly chighled from surveys that by more made under my supervision; and cit this survey and acceptancyling surveys rates comply with the cit interest highlatible affecting surveys and are correct too the purpose required. MICHAEL R. ROSE SURVEY CERTIFICATE ...of NEWSTEAD

SHEET 1 OF | SHEETS SURVEY NOTES

Signature

REPORT Mar datum per 59. 144987

MEAN & HPIA'IS!

within proposed road widening.

(58.7183)

Date /2 / 9 ,2006

Surveyors Reference: 923

4.5, 7, 8. 9, 10, 11 \$ 12 fixed per 59. 219518 applying 8, 9 & 12 not worked being

5-6 fixed on read widening alignment per SRT189 an "10" 40" \$0.09 { \$401509-372} 32(24/50) (6)

(All "10 40" SP. 7189) PAW 30. A. M'Gregor - DWHER PM & EE NEWTON- DWNGS OT. 34101-1 PM & EE NEWTON - OWNERS CT. 21558-2 102:097 cT. bal to.09 (5401 842. 299) 110-867 ct. bad. 0 891.0 100 A (Z) R14 0/5 1,95,25 NAMA OF THE 516.211-697 516.211-697 516.211-697 **BUACUAVS** KD. per succoun (38.136826)

1 - 568

SOSM.

(SP 34101) 5763m2

EV AND ALE

(DE06EL 45)

SNHOT

6368m² (SP 34101)

STREET

(SP 34,101)

709Bm2 (SP 21958)

6.50 56*00" MAM 0A0A 156*54 [SP 129904] (**EE dS) (SP 64,958) RICHARD ST (SP 140859) (SP 119712) (SP 136826) closing error - wil & completed 24-8-2006 sorver commenced is SPM. 8435 RM.3 Coord origin for SET Combined factor 0.999576 Mak Height factor 0.999973 MUA Seale factor 0.999603 A 11°10'15" Adopted mean difference 167.08 30" 212:583 cale. SP 21958 day. All 6624" Comparison 3a-16. 178'18'54" 0.5 pikes per SP. 21958 in vicinity of 10 not found due to respeding. 212.578 calc. survey SNHOL TABATE (SE 2495B) Repay by as walkery OF. 34101-7 (58.34101) 2450 05 21" 126.111

BORAL

ROAD

to six the series

325° 14'55" 282.591(c) 513. Mar Datum le-ld

(58 146 537)

17:41-31 109-251.341 17:41-31 109-251.341

Search Date: 26 Jun 2020 tment of Drimon, Industrias Darbo Motor and Environment Search Time: 04:41 PM

Volume Number: 148609

BORAL

ROAD

(SP 21958)

Revision Number: 01

All altha has been been

Page 1 of 1 Search Date: 26 Jun 2020

Search Time: 04:41 PM

Volume Number, 148609

Revision Number: 01

5948435 RMJ3(6) a.Kls SMH. (58.46537/1)

\$ 516747.879 \ per \$6,146537

Page 1 of 1

COUNCIL APPROVAL



RECORDER OF TITLES

	the Land Titles Act 1980	HILLEN

SEARCH OF TORRENS TITLE

FOLIO 100

EDITION 150770 VOLUME

DATE OF ISSUE 12-Nov-2008

¥	1	Tasmanian Governmen	111
			2.7
			1

SEARCH DATE : 26-Jun-2020 SEARCH TIME : 04.41 PM

DESCRIPTION OF LAND

Parish of BREADALBANE Land District of CORNWALL

Lot 100 on Sealed Plan 150770

Derivation : Part of 324 Acres Gtd. to Thomas Gee

P148609

Registered Number

The subdivision shown in this plan is approved	of the Lacal Government (Building & Miscellaneous Provisions) Act 19931	(Insert any qualification to the permit under section 8315), section 109 or section 111
		U

The subdivision shown in this plan is approved

In witness whereof the common seal of passed the has been affixed, pursuant to a resolution of the Council of the said municipality day of 20 , in the presence of us

Member Member

Council Delegate

Council Reference

CHEDULE 2

CHEDULE 1

Prior CT 7189/2

C558132 TRANSFER to NOVAK INTERNATIONAL PTY LTD Registered 26-Oct-2004 at 12.01 PM

NOMINATIONS

1-569

For the purpose of section 86 of the Local Government (Building & Miscellaneous Provisions) Act 1993 the owner has naminated

MICK ROSE

Surveyor to act for the awner

INREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

SP150770 EASEMENTS in Schedule of Easements

SP150770 FENCING PROVISION in Schedule of Easements Reservations and conditions in the Crown Grant if any

Solicitor to act for the owner

OFFICE EXAMINATION: indexed ..

Computed W. 5/6/07

Search Date: 26 Jun 2020 smout of Delmon Indication Dorle Whater and Engironment Search Time: 04:41 PM

Volume Number: 148609

Revision Number: 01

Page 1 of 1

sanana Alastina Ann ----

Page 1 of 1

** ** **

Issued Pursuant to the Land Titles Act 1980

RECORDER OF TITLES

Tasmanian Government

Issued Pursuant to the Land Titles Act 1980

PLAN OF SURVEY
ANNEXURE SHEET
NEW SHEET 1 OF 2 SHEETS RECORDER OF TITLES FOLIO REFERENCE: FR. 7189 - 2 OWNER: NOVAK INTERNATIONAL PTY, LTD.

SIGNED FOR IDENTIFICATION PURPOSES

SCALE 1: 1750

1-1750 LENGTHS IN METRES
THIS ANNEXURE SHEET FORMS PART OF THE ATTACHED MODEX PLAN, THE
SURVEYORS CERTIFICATE EXTERDS TO THE DETAILS ON THIS SHEET.

EFFECTIVE FROM ____ 3 MAY 2007 Alice

Registered Number SP 150770

Tasmanian Government

15-11-1007

M. &. ROSE

Registered Land Surveyor

14-11-2007 Date

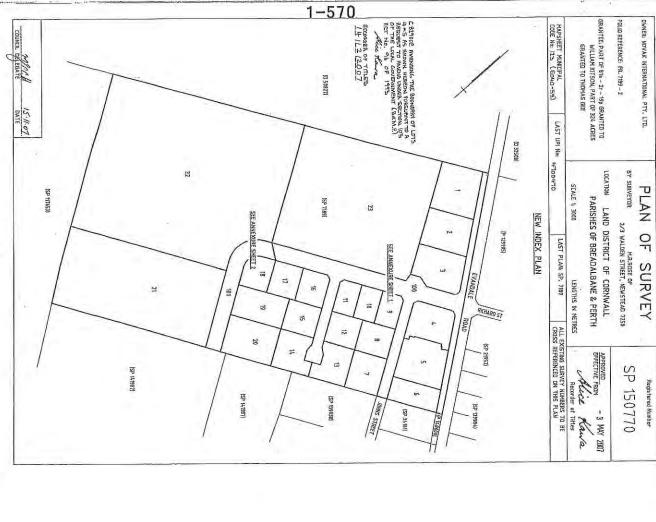
NEW SHEET 1

| No. | No.

(0 50827)

54.

7507m"



22

(SP 7189)

23 6.210 ha

3

18

33/9m2

55 2584m²

2598m² .00.10.97

100. ROAD 2.410 ha

S.39 TO-13' RICHARD STREET

IP 129905)

-5.33 127 08 -5.33 98*39

(SP 21957)

2584m²

SEE ANNEXURE SHEET 2

3692m²

다

12 3502m²

3698m

Page 1 of 3 Search Date: 26 Jun 2020 Search Time: 04:42 PM V
Department of Primerv Industries, Parks, Water and Environment Volume Number: 150770 Revision Number: 06

DRAINAGE EASEMENT 4.00 WIDE

(SP 147987)

20

1B 4498m²

EASENENT 3.00 WIDE

56" 00" 25" 92.55 6 4122m²

PRIVATE) "A"

(SP 129904

DRAINAGE

EASEMENT -

DRAINAGE EASENENT 4,00 WID

32,04

(SP 139030)

JOHNS STREET

[SP 34.101]

[60987] di

Search Date: 26 Jun 2020

Search Time: 04:42 PM

Volume Number: 150770

Revision Number: 06

44-11-44-

www.thelist.tas.gov.au

Page 2 of 3

Levous

30/3/07 Dafa

55° 00' 50" 220.02

55* 06" 20"

(D 50827)

154,48

PLAN OF SURVEY
ANNEXURE SHEET
SHEET 2 OF 2 SHEETS

GNED FOR IDENTIFICATION PURPOSES

FORMS PART OF THE ATTACHED INDEX PLAN. THE CATH EXTENDS TO THE DETAILS ON THIS SHEET.

E FROM - 3 MAY 2007

S

150770

Registered Number

20-03-2007

RECORDER OF TITLES ssued Pursuant to the Land Titles Act 1980

OWNER: NOVAK INTERNATIONAL PTY. LTD. FOLIO REFERENCE: FR. 7189 - 2

Tasmanian Government

RECORDER OF TITLES

Tasmanian Government

ssued Pursuant to the Land Titles Act 1980

1 .

SCHEDULE OF EASEMENTS

150770

Registered Number

PAGE 1 OF 3 PAGE/S

EASEMENTS AND PROFITS

NOTE THE SCHEDULE MUST BE SIGNED BY THE OWNERS & MORTGAGEES OF THE LAND AFFECTED. SIGNATURES MUST BE ATTESTED.

Each lot on the plan is together with:-

 such rights of drainage over the drainage easements the stormwater and other surplus water from such lot; and such rights of drainage over the drainage easements shown on the plan (if any) as may be necessary to drain any easements or profits a prendre described hereunder.

 such rights of drainage over the drainage easements shown on the plan (if any) as passing through such lot as
may be necessary to drain the stormwater and other surplus water from any other lot on the plan; and Each lot on the plan is subject to:-

(2) any easements or profits a prendre described hereunder.
The direction of the flow of water through the drainage easements shown on the plan is indicated by arrows.

Midiands Council) over the lands marked DRAINAGE EASEMENT 3.00 WIDE, DRAINAGE EASEMENT 4.00 WIDE and DRAINAGE EASEMENT passing through those lots on the plan Lots 6, 7, 8, 12, 13, 14, 19, 20 and 23 are subject to a right of drainage (appurtenant to the Northern

WAY (PRIVATE) "F" passing through that lot on the plan Lot 1 is subject to a right of carriageway (appurtenent to lots 2 and 3) over the land marked RIGHT OF

1-571

19"421 .54.9E .SZE

(SP 7159)

656.00.17 21.00.323

SEE ANNEXURE SHEET 1

100 ROAD

10.77 ha

23

23

56" 00" 10" 305.29

> 341"00" 9.59 351-00-9.59/

> > 7553m 101 ROAD

3202m

5651m

09'15 U

19

Lot 1 is together with a right of carriageway over the land marked RIGHT OF WAY (PRIVATE) "D" and RIGHT OF WAY (PRIVATE) "E" on the plan

Lot 2 is subject to a right of carriageway (appurtenant to lots 1 and 3) over the land marked RIGHT OF WAY (PRIVATE) "E" passing through that lot on the plan

RIGHT OF WAY (PRIVATE) "F" on the plan Lot 2 is together with a right of carriageway over the land marked RIGHT OF WAY (PRIVATE) "D" and

WAY (PRIVATE) "D" passing through that lot on the plan Lot 3 is subject to a right of carriageway (appurtenant to lots 1 and 2) over the land marked RIGHT OF

SUBDIVIDER: NOVAK INTERNATIONAL PTY LTD FOLIO REF: FR. 7189-2

& REFERENCE: RAE & PARTNERS (P. Lebski) DATE:

(USE ANNEXURE PAGES FOR CONTINUATION)

ATTOMAL PTY LTD

PLAN SEALED BY: EXPRESSIONED TO THE LAND STATEMENT OF REF NO. 27/003 smark Council Delegate

NOTE: The Council Delegate must sign the Certificate for the purposes of identification.

Search Date: 26 Jun 2020 Denartment of Primary Industries Parks. Water and Environment Search Time: 04:42 PM

(SP 117653)

(SP 141987)

124.80

385

BRADIAGE EASEMENT 4.00 WIDE

20 7052m

P'00 MIDE

235" 58" 05"

(SP 141987)

353. 10. 32.

21 4,500 ha

Volume Number: 150770 Revision Number: 06

www.thelist.tas.gov.au

Page 3 of 3 Search Date: 26 Jun 2020

Search Time: 04:42 PM Matar and Emilianment

Valume Number: 150770

Revision Number, 06

Page 1 of 3

unamer thaliat tac MAN as



7

RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980



RECORDER OF TITLES

7

ssued Pursuant to the Land Titles Act 1980

SCHEDULE OF EASEMENTS

ANNEXURE TO

PAGE 3 OF 3 PAGES

150770

Registered Number

SUBDIVIDER: NOVAK INTERNATIONAL PTY LTD FOLIO REFERENCE: FR. 7189 - 2

SUBDIVIDER: NOVAK INTERNATIONAL PTY LTD FOLIO REFERENCE: FR. 7189 - 2

SCHEDULE OF EASEMENTS

PAGE 2 OF 3 PAGES

Se Se

150770

Registered Number

ANNEXURE TO

Lot 3 is together with a right of carriageway over the land marked RIGHT OF WAY (PRIVATE) "E" and

RIGHT OF WAY (PRIVATE) "F" on the plan

2001 by NOVAK INTERNATIONAL PTY. LTD. Signed under Section 127 (1) of the Corporations Act being the registered proprietors in folio of the Register volume 7189 folio 2 in the presence of-

x (Director/Secretary)

(PAUL NOVAK)

name; Witness:

occupation: CERTIFIED Arms Lever PRACTISING ACCOUNTSAIL cres to entire of Brisdame

who has no notice of revocation of such power of Attorney in the presence of: Attorney No. 72/6137 dated 10 April 2001 duly constituted Attorney under Power of EXECUTED by BANK OF WESTERN AUSTRALIA LTD ABN 22 050 494 454 by its

An Officer of the Bank
Name (please print): "Allson Madonna Hice

C,dec 85558

An Officer of

Signature

Beverley Lewis
Manager Operations Team

by its Attorney: BANK OF WESTERN AUSTRALIA LTD

Name and Title (please print)

1-572 Lot 5 is together with a right of carriageway over the land marked RIGHT OF WAY (PRIVATE) "A" and

Lot 5 is subject to a right of carriageway (appurtenant to lots 4 and 6) over the land marked RIGHT OF

WAY (PRIVATE) "B" passing through that lot on the plan

RIGHT OF WAY (PRIVATE) "B" on the plan

Lot 4 is together with a right of carriageway over the land marked RIGHT OF WAY (PRIVATE) "A" and

Lot 4 is subject to a right of carriageway (appurtenant to lots 5 and 6) over the land marked RIGHT OF

WAY (PRIVATE) "C" passing through that lot on the plan

Lot 6 is subject to a right of carriageway (appurtenant to lots 4 and 5) over the land marked RIGHT OF RIGHT OF WAY (PRIVATE) "C" on the plan

Lot 6 is together with a right of carriageway over the land marked RIGHT OF WAY (PRIVATE) "B" and WAY (PRIVATE) "A" passing through that lot on the plan

Fencing provision

RIGHT OF WAY (PRIVATE) "C" on the plan

The eveness of the lots on the plan are subject to the feneing provision created and set forth in Scaled Plan-

to fence In respect to the lots on the plan the vendor (NOVAK INTERNATIONAL PTY LTD) shall not be required

NOTE: Every annexed page must be signed by the parties to the dealing or where the party is a corporate body be signed by the persons who have attested the affixing of the seal of that body to the dealing.

Volume Number: 150770 Revision Number: 06

Search Date: 26 Jun 2020

Search Time: 04:42 PM Parks Water and Fovironment

anuna thaliet tae nov an Page 2 of 3

Search Date: 26 Jun 2020

Search Time: 04:42 PM Volume Number: 150770 NOTE: Every annexed page must be signed by the parties to the dealing or where the party is a corporate body be signed by the persons who have attested the affixing of the seal of that

body to the dealing

Page 3 of 3

Ravision Number: 06

RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980

Denartment of Primary Industries, Parks, Water and Environment Search Time: 04:42 PM

Search Date; 26 Jun 2020

Volume Number: 150770

Revision Number, 06

www.thelist.tas.gov.au Page 1 of 8

Denartment of Primary Industries Parks Water and Environment

Search Date: 26 Jun 2020

ssued Pursuant to the Land Titles Act 1980

LROSS REFERENCE PLAN NUMBERS USED AS PART OF THIS SURVEY ANNEXURE SHEET SHEET 2 OF 2 SHEETS FOLIO REFERENCE: FR 7189 - 2 OWNER: NOVAK INTERNATIONAL PTY, LTD. THIS ANNEXURE SHEET FORMS PART OF THE ATTACHED PLAN. THE SURVEYORS CENTRICATE EXTENDS TO THE DETAILS ON THIS SHEET 20-3-2007 Date SP

Registered Number

LENGTHS IN HETRES 150770

545 594,767

P L X

[10] RM D/S

55" 29" 35"

(12) day

53° 56° 29" 160.812

515 895.509 ±0.06

154.476

Enimperison 35 - 11 325*32*20" 4/3,906 calc survey 314*20*55" 6/3,702 calc 5P 7,89 A+11"11'25" scale 1.000460

> 10.77 ha 22

> > (SP 7185)

23

NOVAK INTERNATIONAL PTY, LTD, - owner FR. 7189 - 2

26. 06. 12.

190.847

100 ROAD

331"00" 9,587

SEE SHEET 1 OF 2

(80.792)

3202m

Survey completed 14-2-2006 Survey completed 16-3-2007 Clasing error - mil

\$17.00 Cocked Hat \$516.211.697 \$5403.722.035\$ per surcom

(0 50827)

SURVEY NOTES RECORDER OF TITLES

1 - 573GJW denotes repeg by GJ Wather dated 31-5-1989 MGA scale factor: 0.999503 Height factor: 0.999973 csf: 0.999576 46 & 47 not marked being within proposed road widening. 45-108 & 50-22 on road widening alignment defined per SP 7189. 40-41-43-45-46-47-21 fixed by proportion per comparison 21-40 per SP 7189. 35-36-38-39-40 fixed by proportion per comparison 35-11 par SP 7189. 34 fixed by proportion per comparison 31-35 per SP 14987. REPORT - MGA datum per GPS observations with coord origin at 22 per P 148809. NLL COBMER MARKS ARE CP'S LINCESS OTMERWISE SHOWN, ALL BOUNDARIES ARE OPEN LINCESS OTMERWISE SHOWN. Estimated positional error revised from P. 148609 after Auspos processing of GPS data SEE SHEET 2 OF 2 USED AS PART OF THIS SURVEY 22 18 SHEET 1 OF 3 SHEETS SURVEY NOTES 100, ROAD 2.410 ha 54 16 5 100.847 \$15 895.509 \ ±0.06 \$1,01 675.02Z \ calc 3692m HOVAK INTERNATIONAL PTY, LTD. - owner FR, 7189 - 2 23 6.Z10 ha SP 54" 37" 38" 349.080 Comparison 21-48
265°56'01° 690,598 calc survey
254°45'10° 890,639 calc SP 7189
Δ+11"10'51° acale 0.99995k Registered Number 1250 A 12 150770 (SP 139036) 234" 05" 21" 134.518 [SP 7109] (D 50827) 3698m .00 .00 EN 022 in Tasmania a registered land surveyor HEREBY CERTIFY that (a) this survey is based upon the best evidence that the nature of the case admits.

In the survey notes have been truly complied from survey. MICHAEL R. ROSE of 7507m² 2 6295m² SURVEY CERTIFICATE iffecting survey notes comply with the 1915 STU 361743 een truly compiled from surveys my supervision; and Date 20 3 ,2007 NEWSTEAD 2006 Surveyors Reference: 948 + 到 (15) SPH B434 50, 511.565 [18 - 1] 5/0 (11) EVANDALE DAOR -1+27K DY M 8

Search Time: 04:42 PM Comparison 31 - 35
236*04*48** 342304 calc survey
236*04*30** 342311 calc SP 141887
A+18** scale 0.999980 Volume Number: 150770 Revision Number: 06

\$ 25° E ST

D. splke in vicinity of SP 141987/10 gon

(150 14 92)

(SP 141987)

21 4.500 ha

101 ROAD 7553n²

236"00'Q0" 9B.118

20 7052m²

19 5651m²

96545 ..00 .00 -9ZI

238. 42. 45. 333.785

Page 2 of 8

www.thelist.tas.gov.au

SURVEY NOTES

FOLIO REFERENCE:

THIS ANNEXURE SHEET FORMS PART OF THE ATTACHED PLAN, THE SURVEYORS CERTIFICATE EXTENDS TO THE DETAILS ON THIS SHEET

SP 150770 Registered Number

14-11-2007 Date

LENGTHS IN METRES

CROSS REFERENCE PLAN NUMBERS USED AS PART OF THIS SURVEY

SUPPLEMENTARY SURVEY NOTES

100. ROAD

5616 m2 4.

> 70013130 98.39/

SHEET 3 OF 3 SHEETS ANNEXURE SHEET

HOBAST AMS (Disclot)

AM Peacots B Japp. SC (SUR), MLS AUST (Disclot)

O.M. Teny, B SURY, (Test), MLS AUST (Disclot)

O.Parino, SE M.JE.AUST, G.P.EMS (Disclot)

H. Opareni, B SURY, (Test), MLS (Morbori)

M. McClesen, B.E., M.E. AUST (Nesociale)

cindos, B, SURV. (Tas.), M.I.S. AUST. (Director)

A. J. Hudson, B. SURV. (Tae.), M.I.S. AUST. (Director)
B.J. Rollins, L.S., M.I.S. AUST. (Director) LAUNCESTON J.W. Deni, O.M. B. SURV. (Tas.), M.J.S. AUST. (Director) P.N. Anderson, L.S., M.J.S., AUST. (Consultant)

Our Ref: L100701_M609M - Enc copy Survey Plan & Notes

127 Bathurst Street Hobart Tesmania, 7000 Phone (03) 6234 3217

1st July, 2010

Dear Sir

GPO Box 541 Recorder of Titles Land Titles Office

HOBART TAS 7001

Lease Survey
Proposed Telstra Site - Hughes Court, Breadalbane

574

RIS Kerb !

3.452 55°30'35

face bok. To

25401 504 - 615 JEO.06

7157 m2

6000 92.554

6

(SP. 150770)

STREET

151 29L.

JOHNS

(45-EII)

. Please find attached copy of Plan and Survey Notes, forwarded in accordance with Section 3.3.1.1(b) of the Survey Directions 2002.

Yours faithfully Peacock Darcey & Anderson Ply Ltd

DIRECTOR Mark Peacock

hec. n.n.1.1. b

Encs

23

OFFICES ALSO AT: • 26 Church Street, Kingston, 7050 • 6 Queen Street, Burnie, 7320

Page 4 of 8

Search Date: 26 Jun 2020 ant of Drimon, Industrias Darks Water and Environment Search Time: 04:42 PM

SUPPLEMENTARY SURVEY COMMENCED 16-3-2007

ALL CORNER MARKS CP'S UNLESS SHOWN OTHERWISE

COMPLETED

13-11-2007

Volume Number: 150770 Revision Number: 06

Page 3 of 8

Search Date: 26 Jun 2020 Search Time: 04:42 PM

Volume Number: 150770

Revision Number: 06

GRANTEE : PART OF 324 ACRES GTD. TO THOMAS GEE

SCALE: 1:400

SURVEYORS REF

Recorder of Titles

LAST PLAN LENGTHS IN METRES

CROSS REFERENCED ON THIS PLAN

REFERENCE: 150770/14 OWNER : ICENA DAMIES PTY, LTD.

BY SURVEYOR ANTHONY MARK PEACOCK OF PEACOCK, DARKEY & ANDERSON PTY LYD 127 BATHUBSY STREET, HOBART

PLAN OF SURVEY

968. 3.3.1-1-(b)

2 3

LAND DISTRICT OF

PARISH OF

CORNWALL BREADALBANE

EFFECTIVE FROM ..

RECORDER OF TITLES ssued Pursuant to the Land Titles Act 1980

Tasmanian Government

RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980

SURVEY CERTIFICATE

Tasmanian Government

SURVEY NOTES

SURVEY COMMENCED 19/05/2010 AND COMPLETED 20/05/2010 REGISTERED GRADUATE: MARTIN HEATLEY (4).1.(4.7.30) USED TO DETERMINE BOUNDARIES In a second of the property of

USED AS PART OF THIS SURVEY

SHEET 1 OF 1 SHEET

ompanying survey notes comply with street for

Surveyors Reference: M908M Date 30, 6, 2010

COMBINED SCALE FACTOR 0.99575, (SEA LEVEL, CORRECTION 0.99997)
ALL CO-ORDINATES QUOTED ARE HGA 94. ALL BOUNDARIES ARE OPEN UNLESS STATED OTHERWISE. CO-ORDINATES OF CORNERS (3) AND (6): ESTIMATED POSITIONAL UNCERTAINTY ±0.07 E & H, TRANSFERRED FROM SPM 8133,

SURVEY CARRIED OUT BY CONVENTIONAL TRAVERSE EXCEPT FOR (B) WHICH WAS HEASURED BY RTK GPS AND SURVEY HARKS (1), (2) 1, (5) WHICH WERE HEASURED BY BOTH NETHIODS. ALL CORNER MARKS ARE CPS UNLESS STATED OTHERWISE.

(8) SPH B133 515670,162E 5402559,629N HGA 94

SunsyA Anilenent . एए एक वुझ हहूता व्याप्य हहूता भूपता MUTA व A SARON PARIS ON THE SERVICE OF THE [SP 150770] 60.00m [59:141987] (SP 139030) ISP 150770)

1-575 MAPSHEET MUNICIPAL CODE No. (SP 150770) [SP 150776] UPINO SURVEY FOR LEASE HOLD ESTATE ONLY (SP 159770) TAUD3 23HEUH (SP 14.1987) COUNCIL DELEGATE [SP 150770] (SP 139030) (SP 150770) DATE

Volume Number: 150770 Revision Number: 06

Search Date: 26 Jun 2020

Search Time: 04:42 PM

Page 5 of 8

annual the Bet too and an Denadment of Primary Industries Parks, Water and Environment Search Date: 26 Jun 2020

Search Time: 04:42 PM

Volume Number: 150770

Revision Number: 06

Page 6 of 8

REFERENCE : 150770/13

OWNER : PREHIUM CONSTRUCTIONS (TAS) PTY, LTD.

BY SURVEYOR

PLAN OF SURVEY JOHN WILLIAM DENT of CAMPBELL SHITH PRELPS PEDLEY 3/23 BRISHAME STREET, LAUNCESTON

LOCATION LAND DISTRICT OF

PARISH OF

CORNWALL BREADALBANE

EFFECTIVE FROM

SIO 162828 filed with SPI50770

SURVEYORS REF-

Recorder of Titles

ALL EXISTING SURVEY NUMBERS TO BE CROSS REFERENCED ON THIS PLAN

GRANTEE : PART OF 324 ACRES 6TD. TO THOMAS GEE

MAPSHEET MUNICIPAL CODE No.

UPI No

LAST PLAN LENGTHS IN METRES

SURVEY FOR LEASE HOLD ESTATE ONLY

[SP (50770)

SUPPORT LEASES LUDGED AS 510 TO

D5966 & D5967

ISP 1507701

[SP (50770)

Issued Pursuant to the Land Titles Act 1980

Tasmanian Government



SURVEY COMMENCED AND COMPLETED 22/06/2011
REGISTERED GRADUATE MARTIN HEATLEY

AND THE MARTIN HEATLEY

REGISTERED GRADUATE MARTIN HEATLEY

CROSS REFERENCE PLAN NUMBERS
USED AS PART OF THIS SURVEY

SHEET 1 OF 1 SHEET

filed with SP150770 SIO 162828 USED TO DETERMINE BOUNDARIES

in Tananha Bregistered and Surveyor HBREY CERTIFIC halt in Tananha Bregistered and Surveyor HBREY CERTIFIC halt is hits survey or based upon the best elidence that the pature of the case admits made seen truly coupled from surveys (a) the survey host made undersory surveys best comply with the couple of the coupling of surveys and the undersory surveys where comply with relationship surveys and the couple of the coupling of the surveys has the couple of the coupling of the surveys has the comply with relationship surveys and the couple of the coupling of the surveys has the comply with the coupling of the surveys and the comply with the coupling of the surveys and the surveys a

SURVEY CERTIFICATE

companying survey notes comply with affecting surveys and are correct (or

Surveyors Reference: 190/11 Date 6 17,2011

CO-DORDMATES DE OIRH DÍ, AND COMRISS GÍ AND ITÍ
ESTIMATED DESITIONAL MICERTAMITY - 4.01 T E. N.
ESTIMATED DESITIONAL MICERTAMITY - 4.01 T E. N.
ESTIMATED DESITIONAL PROSIDENT - 1.01 T E. N.
TRANSFERRETE FROM SYM HOSS VAL LEVER HOD ESTATE OIN Y SUNVEY
TRANSFERRETE FROM SYM HOSS VALLENER, LONGETTON N. 599971.
ALL COORDINATES OUDTED. ARE MGA "94.

ALL CORNER MARKS ARE CPS UNLESS STATED OTHERWISE. ALL BOUNDARIES ARE OPEN UNLESS STATED OTHERWISE.

56,400

translink Menue (SP 150170) [SP 750770]

Flugher (SP 150770) 17) ORH SCIEN TOX (3/SP 150710) 516212512E 5401394,915N HGA "94 adopt 31.067 Propries Jings 170/SP 1507 (SP 150770) Ht. Arthur cen. 15*25'31" 69.6m [SP 139030] [5P 150770]



Volume Number: 150770 Revision Number: 06

Search Dale; 26 Jun 2020

Denartment of Primary Industries. Parks. Water and Environment

Search Time: 04:42 PM

www.thelist.tas.gov.au Page 7 of 8

Search Date: 26 Jun 2020 Search Time: 04:42 PM V
Department of Primary Industries, Parks, Water and Environment Volume Number: 150770

Revision Number: 06

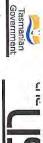
Page 8 of 8



COUNCIL APPROVAL

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980



RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980

VOLUME 23720 SEARCH OF TORRENS TITLE FOLIO ယ

EDITION N

DATE OF ISSUE 13-Aug-1999

of the Local Government (Building & Miscellaneous Provisions) Act 1993) Ansert any qualification to the permit under section 83(5), section 109 or section 111 Sp

Registered Number

The subdivision shown in this plan is approved

150770

DESCRIPTION OF LAND

Derivation: Part of 556 Acres originally granted to Thomas

Scott and duly acquired by Application No. A941239

Lot 3 on Diagram 23720 Town of BREADALBANE

Prior CT 4277/51

SEARCH TIME : 04.42 PM SEARCH DATE : 26-Jun-2020

has been affixed, pursuant to a resolution of the Council of the said municipality In witness whereof the common seal of NORTHERN MIDLANDS COUNCIL

MAYOR passed the 30 day of MARCH 2007, in the presence of us Other Pileur

CGENERAL MANAGER mare

Council Reference \$7/003/322.

SCHEDULE 2

SCHEDULE 1

THE CROWN

NOMINATIONS

1-57

For the purpose of section 88 of the Local Government (Building & Miscellaneous Provisions) Act 1993 the owner has nominated

RAE & PARTHERS Solicitor to act for the owner

UNREGISTERED DEALINGS AND NOTATIONS

Reservations and conditions in the Crown Grant if any

No unregistered dealings or other notations

MICK ROSE Surveyor to act far the owner

OFFICE EXAMINATION: Indexed Computed IIII RIGHTOT Examined IIII RIGHTOT

Volume Number: 150770

Denartment of Primary Industries, Parks, Water and Environment

Search Time: 04:42 PM

Revision Number: 06

www.thelist.tas.gov.au

Page 1 of 1

union thallet tac morran

Page 1 of 1

Volume Number: 23720

Revision Number: 01

RECORDER OF TITLES

RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980



628
Owner: Lots 189, Terence Edward Hardman and Dorsen May Hardman. Granteer. S56
Part of a tested of 4560 ac. Gtd to
Thomas Scott. Title Reference: Lots 18 3. Conv. 47-2130 THE SHOW W 47 2130 part of ssued Pursuant to the Land Titles Act 1980 PARISH OF BREADALBANE & TOWN OF BREADALBANE SCALE 1:3000 MEASUREMENTS IN METRES of land situated in the G.D. WHERRETT ORDEX NO. B. 459161 ESTINGUISHING THE NOTHING GEDRACE STREET HERGON UNICH IS WITHIN LOTT 4 ON SECRET PLAN REGISTERED NUMBER 50-534 FORSOPRATTIC SECTION 194-0 FTHE COMMERNACING AND LINK OF MORESTY ACT 10684 シシン TRNCING AND Registered Number: Effective from: ... Achiery Recorder of title There -7 JUL 1986

1-578

1-578

1-578 (023719) SASSASSIN SASSASSININ SASSASSINI SASSASSINI SASSASSINI SASSASSINI SASSASSINI SASSASSINI SASSASSINI SASSASSINI S 200 MIDLAND 1014 m HIGHWAY 1014 m2 The Crawn Note, 8.12350 10.2 2 Enlargement Scale 1:1500 (25/81) 0.0 1055 The Coun Nota A. Skilling (228679) 1053m (5,8,50752) 2·499 ha. THE REAL PROPERTY. KELOKDER OF THE Markelle SP3955) D.22236 (SPB335) (SPD9)

See also concurrent acquins by me from TE YOM HARDHAN +from Dept of Education on Western side of Midland Hwy, SurveyComplered Error of Close: nil 8/6/84 DIAND being landknown Prinale ST (not constructed)
All lots are land to be acquired by
the Dept of Main Roads for road purposess
lote: Pringle and George Sts have been STAR ADJACENT 101 子思日 crant Cor. "A" maintaining angles and by the late James Reid Scott 8050 1 to 36,000 CT 3277/27 20.264 53. 193 50 WEYER 1053m2 1014m2 CONV 54-19910 (conv 47/2130) (12) 20° 25 05 51° 51 82.033 2.499 ha. Lor3 SI5414-851 } (5402064-027) 1120 03 108.056 1810 5118 (a) this survey is based upon the best evidence that the nature of the case admits; (c) this (b) the survey mores have been truly compiled from surveys made by me or made water my supervision; and O_HICHWHT 20 BD rivey and accompanying survey notes comply with the relevant station affecting surveys and are correct for the purpose Registered Surveyor S. Davy Whent & Allbody's are open unless shown All bearings are AMG(DM.RENG. 740.250 (a) (5401954-654) SURVEY CERTIFICATE (CON 47/2130) 515678-299 7 TE rence Edward and Part of atotal of 1560acs (conv 47/2130 Doreen May Handman ours Crd to Thomas Scott (1/340) Shopping And Shopping STONE OF THE PROPERTY OF THE P Date 14.06 . 1984 other wise (Lor2 or) (S) (51,7805512) (51,7805512) ०.८१(५१) ४९)

Page 1 of 1

Search Date: 26 Jun 2020

Search Time: 04:42 PM

Volume Number: 23720

Revision Number, 01

Halexander

Graduate Surveyor

Page 1 of 1



DEPARTMENT OF MAIN HOADS, TASMANIA

PA/SM
All communications to be addressed to:
3|3 Wellington Street,
Launceston, 7249
Officer: p. Alexande/Feebhone: 44 2401
Our File No.: Date: 23rd August, 1985

PROPOSED AMENDMENT TO

(D23720)

Chief Draughtsman, Lands Titles Office, G.P.O. Box 541 F, HOBART, Tasmania. 7001

12 SEP 385

I enclose a photostat of the field notes for (91/1) D.O. and for (25/81) D.O., previously unregistered. Taranta and the same

Dear Sir,

On page (4) (my numbering) of F.N.'s (91/1) D.O. it would appear that in setting out the boundary per (25/81) D.O. an error has been made of 3.18 feet, due to the boundary chainage being commenced at the O.R.M. Thus the pre-acquisition Midland Highway frontages of the 2 lots under survey appear to be displaced Eastward by this amount. Consequently the pegged position of the South-Eastern corner is 0.36m North of the location as indicated by (25/81) D.O.

I have recalculated a position for the S.E. corner of Lot 7 (91/1) D.O. from the adjacent O.R.M., have moved my star (D23720) accordingly and have adopted this position in my current survey also. This alteration gives a much closer agreement with the Southern boundary of (25/81) D.O. 53.639 p.o. 53.613 this survey and (91/1) D.O. as amended.

If you concur with this redefinition would you please make the appropriate amendments to (D23720).

Yours faithfully,

サイングシャーかい

(P.J. Alexander) SURVEYOR

adjacent to post STAR

1920

LOT 1 1053m2

Search Date: 26 Jun 2020

Denartment of Primary Industries, Parks, Water and Environment

Search Time: 04:42 PM

Volume Number: 23720

Revision Number: 01

Page 1 of 3

www.thalist.tas.gov.au Search Date: 26 Jun 2020

Denartment of Primary Industries Parks Water and Environment Search Time: 04:42 PM

Volume Number, 23720

Tasmanian Government

Page 2 of 3

EDITION

DATE OF ISSUE 04-Sep-2014

Issued Pursuant to the Land Titles Act 1980

SEARCH TIME : 04.43 PM SEARCH DATE : 26-Jun-2020

DESCRIPTION OF LAND

Parish of BREADALBANE, Land District of CORNWALL Lot 1 on Plan 128763

Derivation: Parts of 806A-OR-OPs. & 800 ac.Gtd. to J. Kirkby., Part of 324 ac. Gtd. to T. Gee Sinclair. Part of 582A-3R-OPs. Gtd. to J.

Prior CTs 198334/1 and 198335/1

SCHEDULE 1

THE WAY

C124556 THE COMMONWEALTH OF AUSTRALIA 05-Oct-1998 at noon Registered

SCHEDULE 2

(COM 47/21

yoursall!

BENEFITING EASEMENT: the right for the Commonwealth its Reservations and conditions in the Crown Grant if any

on Plan No. 198334 to go pass and repass at all times cables through under and along the said strip of land transmission lines through over and along the strip right to erect use and maintain overhead power of Way 9.14 wide" on Plan No. 128763 and with the through over or along the strip of land marked "Right with or without horses cattle carts or other vehicles successors and assigns and the owners and occupiers amending or repairing and such overhead power two strips of land for the purpose of erecting laying servants and others to enter into and upon the said Plan No. 128763 and with the right for its workmen and the strip of land marked "Easement 1.52m wide" on of land and to lay use and maintain underground for the time being of the land marked C.D.E.F.G.H.J.K.

Control of the contro THE STATE OF THE OF THE server contractor 2.499 ha Eld The is Grant Dally is Whereath of Rivers is Haberender Graduate Succession ry is based upon the best evidence that the nat of all body are an part have been tally compiled from wavers of trades my supervision, and SUBARY CERTIFICAL Dane .. 4. 04 .. 265

Search Time: 04:42 PM

Denartment of Primary Industries. Parks, Water and Environment

Search Date: 26 Jun 2020

Valume Number: 23720

Revision Number: 01

www.thelist.tas.gov.au

Page 3 of 3

Denartment of Primary Industries, Parks, Water and Environment

BENEFITING EASEMENT: the full free right and liberty for the

transmission lines or underground cables.

marked G.H.L.M.N.O.P., N.Q.R.S.t.U.V.W.X.Y.Z.A.

and

owners andoccupiers for the time being of the lands

Commonwealth its successors and assigns and the

Plan No. 128763 and as appurtenant thereto for the

Al., Bl., Cl., Dl., El., Fl., Gl., Hl., Jl. and Al on

and of removing therefrom any obstruction and for the or covered pipe drains or any part or parts thereof constructing laying using and maintaining open drains carts and other vehicles for the purpose of workmen contractors and agents with or without horses said strips of land by their officers servants Plan No. 128763 and with the right to enter upon the of land marked "Drainage Easement 3.02 m wide" on surface water through over under and along the strips of land and forthwith making good all damage that may doing as little damage as possible to the said strips and things as may be reasonably necessary or required and to do and perform all other such incidental acts machinery tools implements appliances and articles of land and to remove therefrom all goods materials be necessary to bring and place upon the said strips purposes aforesaid or any of them and as often as may be done thereto in exercise of the rights and free and uninterrupted passage of stormwater or other

BENEFITING EASEMENT: the right for the Commonwealth its within described containing 52.24ha and shown on Plan surface percolating and other drainage waters sewage successors and assigns and the owners and occupiers of land by its or their workmen servants and others marked "Drain Reserve" on Plan No. 128763 and with or covered drains or such line or lines of pipes as and soil from such portion of land by means of open No. 128763 to pass discharge and conductall such for the time being of that portion of the said land William Stuart Hogarth. doing any unnecessary damage to the adjoining land of covered drains or line or lines of pipes without cleansing amending or repairing any such open or for the purpose of excavating constructing laying the right to enter into or upon the said three strips through under along and upon the three strips of land it or they may consider desirable or expedient

1-581

authorities hereby reserved.

BENEFITING EASEMENT: (appurtenant to the land marked D1., E1. marked "Drainage Easement 291/8D" through all sewers of carrying away stormwater and other surplus water for the time being of the said land for the purpose drainage (including the right of construction of F1., G1., H1., J1., D1., on Plan No. 128763 a right of with the right of the Commonwealth and owner or under through and along the said strip of land and and drains which may hereafter be made or passing from the said land over and under the strip of land drains) for the Commonwealth or the owner or owners owners and its his or their surveyors and workmen from time to time and at all times hereafter if it he

unnecessary damage to the said strip of land. said strip of land and to inspect repair cleanse and amend any such sewer or drain without doing or they should think fit to enter into and upon the

BENEFITING EASEMENT: the right for the Commonwealth its and maintain an approach lighting system and to lay G. and D1., E1., F1., G1., H1., J1., D1., on Plan No. wide" on Plan No. 128763 and with the right to enter marked "Easement For Approach Lighting System 6.04 ms gravel tracks through under over and along the lands 128763 and as appurtenant thereto to erect lay use for the time being of the lands marked G.H.L.M.N.O.P carts and other vehicles for the purpose of and others with or without horses and other animals into and upon the said lands by its workmen servants successors and assigns and the owners and occupiers Plan No. 128763. "Access Easement" and "Access Easement 376/20D" on other vehicles through over and along lands marked with or without horses and other animals carts and said lands and with the right to go pass and repass install gates in any fences adjoining or crossing the approach lighting system or tracks with the right to excavating erecting laying amending or repairing such

BENEFITING EASEMENT: a right of carriage way over the land C108262 BURDENING EASEMENT: A right of carriageway marked "Access Easement 454/18D" on Plan No. 128763

BURDENING EASEMENT: A right of carriageway marked RIGHT OF WAY 'P' and RIGHT OF WAY 'R' 128763 Registered 07-Aug-1998 at 12.02 PM (appurtenant to Lot 2 on SP 121824) over the land

C70476 C108259 marked RIGHT OF WAY 'B' on P.128763 Registered FENCING PROVISION in Transfer 07-Aug-1998 at 12.04 PM (appurtenant to Lot 1 on P.128762) over the land

B954892 in such part of the within land shown on the plan LEASE to AIRSERVICES AUSTRALIA of a leasehold estate for the term of 39 years less 5 days from 6-Jul-1995 thereon. Registered 25-Jun-1996 at 12.06 PM

B954894 B954893 LEASE to AIRSERVICES AUSTRALIA of a leasehold estate LEASE to AIRSERVICES AUSTRALIA of a leasehold estate in such part of the within land shown on the plan in such part of the within land shown on the plan thereon Registered 25-Jun-1996 at 12.07 PM for the term of 39 years less 5 days from 6-Jul-1995 for the term of 39 years less 5 days from 6-Jul-1995

C42907 LEASE to AIRSERVICES AUSTRALIA of a leasehold estate ADHESION ORDER under Section 110 of the Local Act 1993 Registered 18-Dec-1997 at 12.02 PM Government (Building and Miscellaneous Provisions) Registered 25-Jun-1996 at 12.08 PM

Baden Waterward Particiones

Danadment of Drimani Industriae Parke Water and Environment

C403607

CAVEAT by Southern Australia Airlines Pty Limited

years less 5 days commencing from the 6th-July-1995 by a diagram on the said lease for the term of 39

Registered 16-Jul-1998 at noon

against portion of the above land as desribed therein

CAVEAT by Westpac Administration Pty Ltd Registered

Registered 10-Sep-2002 at 12.01 PM

D14738

27-May-2011 at noon

UNREGISTERED DEALINGS AND NOTATIONS

153637

BP: 153637

PLAN Lodged by DEPT OF INF, EN & RE on 22-Jan-2008

(58 21958)

(227 38)0.

(227/37)0.

(160/24)0.

176-5 ha

CE (29149)

(F.108671)

(S.R121624)

Scale 1:250

WESTERLINE (BAILWAY)

DRAIN RESERVE 2-4-1 WIDE (69/30) N.S.

(P.128762)

3-02 WIDE (69/30)N.S

SEE ENLARGEMENT '8'

(B198335)

Settle State College

(299 | 19 1D.

(1.95)

SKETCH 'B'

WESTERN CRAIL WAYS

Tasmanian Government

ssued Pursuant to the Land Titles Act 1980

FOLIO REFERENCE FR - 198335/ LOCATION FIRST SURVEY PLAN No. COMPILED BY L.TO. PLAN OF TITLE

GRANTEE

CODE No. 123 (503915, 504055) UPI No 4700041 SCALE IF 10000 CORNWALL - BREADALBANE No. BIBBET LENGTHS IN HETRES

APPROVED 1.0 DEC 1997

CROSS REFERENCED ON THIS PLAN

BALANCE PLAN

-(506/1910.

P128763 REGISTERED NUMBER

Page 4 of 4

Search Date: 26 Jun 2020

Search Time: 04:43 PM

tment of Drimony Industrias Parks Malar and Environment

Volume Number: 128763

ALLESS EASEMENT

Revision Number: 02

Page 1 of 1

sensors thaling ton answers

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980

Tasmanian Governmen

AOLUME

FOLIO

EDITION 21958

DATE OF ISSUE 01-Sep-2006

4

SEARCH OF TORRENS TITLE

UNREGISTERED DEALINGS REPORT Issued Pursuant to the Land Titles Act 1980 RECORDER OF TITLES

SEARCH DATE : 26-Jun-2020

Lodged by DEPT OF INF, EN & RE on 22-Jan-2008

SEARCH DATE : 07-Aug-2020 SEARCH TIME : 11.51 AM

DESCRIPTION OF LAND

Derivation : Part of 81A-2R-19Ps Gtd to W Kitson and Part of Lot 1 on Sealed Plan 21958 Parish of PERTH, Land District of CORNWALL Prior CT 4061/73 324 Acres Gtd to Thomas Gee Parish of BREADALBANE, Land District of CORNWALL

SCHEDULE 1

B975704 TRANSFER to FAWKNER PTY LTD at noon Registered 06-Sep-1996

SCHEDULE 2

SP 21958 COVENANTS in Schedule of Easements SP 21958 EASEMENTS in Schedule of Easements SP 7189 & SP 21958 FENCING COVENANT in Schedule of Easements Reservations and conditions in the Crown Grant if any C689613 BURDENING Electricity Infrastructure Easement with MORTGAGE to Australia and New Zealand Banking Group Limited Registered 29-Mar-2004 at 12.01 PM Registered 01-Sep-2006 at noon Infrastructure Easement shown on P. 146439 favour of Aurora Energy Pty Itd over the Electricity the benefit of a restriction as to user of land in

UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

Department of Primary Industries. Parks, Water and Environment

SP 7109

(S.P. 21957.)

PAGE,

(SP 3344)

224.

00

9062 m

8924 m²

E SE

LZZLE DI

4740m²

(SPIIDIIZ)

(10 SP 7:89:

3.691 ha

ELECTRICITY INFRASTRUCTURE
- EASEMENT (P146439)
(CREATED BY C489413)

186.99

4325m²

SP 10291

9

TORALAGE PASENENT 3:00 WIDE ALDIG NERTH WEST BOUNDARY OF BYTALE BREWN, WAS TRETTEN BY ME BUNDARY OF A REQUEST TO AMENO N. B. 221505-A MAKE UNICE SECTION AND THE JOSAL GOVERNMENT ACT 1842. PARISHES OF BREADALBANE AND PERTH RECORDER OF TITLES 12 3 1990 SCALE 1: 1500 MEASUREMENTS IN METHES LAND DISTRICT OF CORNWALL

3508-75

Effective from: 2 0 DEC 1983

ACTING DEPUT Hecorder of Tilles

Section 5

CONSISTS OF 1

marked e.B.B.F.G.H on the Flan shown passing through such Lot. Lots 2,3,4 and 5 on the Plan are each subject to a right of drainage (appurtenant to the balance) over such portion of the Drainage Basements C.D.E. AND D.F.G.

INTERPRETATION

at the date of acceptance hereof excluding the lots on the Plan. Balance means the land remaining in Certificate of Title 3508/75

Perry Limited and the owners for the time being of every other lot on the Plany $^{\rm CP}_{\rm th}$ intent that the burden of these covenants may run with and bind the covenantor's lot and every part thereof, and Folio 75 and each and every part thereof to observe the following residue of the Land comprised in Certificate of Title Volume 3508 and every part of every other lot shown on the plany and with the that the benefit thereof may be annexed to and devolve with each stipulations:-

: SP 5194;

SF 9526

SP 4881

Tasmanian Government

RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980

C31:

1.14

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980

PLAN NO.

SCHEDULE OF EASEMENTS

The Schedule must be signed by the owners and morngagees of the land affected. Signatures should be attested.

Notes:—The Town Clerk or Council Clerk most sign the certificate on the back page for the purpose of 2/958 identification.

EASEMENTS AND PROFITS

Each lot on the plan is together with:-

- such rights of drainage over the drainage easements shewn on the plan (if any)
 as may be necessary to drain the stormwater and other surplus water from such
 lot; and
- (2) any easements or profits à prendre described hereunder.

Each lot on the plan is subject to:-

- such rights of drainage over the drainage easements shewn on the plan (if any)
 as passing through such lot as may be necessary to drain the srormwater and
 other surplus water from any other lot on the plan; and
- (2) any easements or profits à prendre described hereunder.

The direction of the flow of water through the drainage easements shewn on the plan is indicated by arrows.

to the balance) over the Drainage Easement 6.00 wide marked A.B. Lot 1 on the Plan is subject to a right of drainage (appurtenant on the Plan.

FENCING COVENANT.

Perry Limited) that the Vendor shall not be required to fence. The owner of each lot on the Plan covenants with the Vendor (Johns

The owner of each lot on the Planycovenants with the Vendor Johns

Page 1 of 1

Department of Primary Industries, Parks, Water and Environment

Search Time: 11:51 AM

Volume Number: 21958

Revision Number: 02

Search Date: 07 Aug 2020

www.thelist.tas.gov.au Search Date: 07 Aug 2020 Denartment of Primary Industries, Parks, Water and Environment

Search Time: 11:51 AM

Volume Number: 21958

Revision Number: 02

RECORDER OF TITLES

- **a** That they will not erect or cause to be erected on such lot any building or buildings within 10 metres of any frontage to access road.
- 3 That they will not erect or cause to be erected on such lot brick masonry or concrete. the front wall of the foremost building is constructed of the whole (save for provision for windows and doors) of any building or buildings other than a building of which
- (c) That in the construction of any building or buildings on have a round or circular type profile. purposes of walls any corrugated sheets where the corrugations such lot they will not use or permit to be used for the
- (a) That they will not erect or cause to be erected on such lot no more than the name and/or type of business being notice not exceeding 8 metres in height and which state any advertising signs or notices other than a sign or conducted on such lot.
- (e) That they will not use or permit to be used the area between of the said area for any purpose other than that of garden road then not to use or permit to be used the front 10 metres motor cars and where such lot has a frontage to access any building erected thereon for any purpose other than that of garden or entry or provision for parking of private the front boundary of such lot and the front alignment of

The conner of Lot 2 on the Plan Wovenants with the Vendor Boral Johns Perry Limited and the comercs for the time being of every other lot on the Plan to the intent that the burden of these covenants may be annexed to and devolve with each and every part thereof, and that the benefit thereof with the residue of the land comprised in Gertificate of Title Volume 4061 Folio 80 and each and every part thereof to observe the following stipulations:

(a) that no vehicular access shall be provided or allowed from Lot 2 to Evandale Main Road.

(b) that they will not erect or cause to be erected on Lot 2 any building or buildings within 50 metres of the frontage of such lot to Evandale Main Road.

50 metres of the frontage of such lot to Evandale Main Road.

As relates to lot 2 on the plan existing covenants deleted and new covenants above added by me have the present to a frequest to Amend No. B160432 made under pursuant to a Request to Amend No. B160432 made under getting the present of the Local Government Act 1962 person to the plan existing covenants deleted and new covenants Act 1962 person to the plan existing covenants deleted and new covenants above added by me are the country trivers.

was hereunto affixed JOHNS PERRY LIMITED

in the presence of:-

Muse returned societary

Recorder of Title

This is the schedule of easem 80903 Solicitor's Reference (Insart Title Reference) (Insert Subdivider's Full Name) Council Clerk/Town Clerk affecting land in

Revision Number: 02

1

Search Date: 07 Aug 2020

tment of Primary Industries Parks Water and Environment

Search Time: 11:51 AM

Volume Number: 21958

Page 2 of 3

ununu thalict too now on Search Date: 07 Aug 2020

Search Time: 11:51 AM

and Environment Volume Number: 21958

Revision Number: 02

..... Ahalish kan was as

Page 3 of 3

Revision Number: 02

union thelief for now all

Page 1 of 3

Search Date: 07 Aug 2020

Search Time: 11:51 AM

Volume Number: 21958

Revision Number; 02

Tasmanian Government

RECORDER OF TITLES ssued Pursuant to the Land Titles Act 1980

SURVEY NOTES

SURVEYOR GRAEME JOHN WALKEM

Parishes of Breadalbane and Perth Land District of Cornwall

Johns Perry Limited Owner C.T. 3508/75

Part of 81A 2R 19P Granted To

W. Kitson and Part of 324

Acres

Granted to Thomas Gee

Survey Commenced:

Survey Completed:

in Tamasails a registered surveyor HERBEY CERTIFY that:

(a) this survey is based upon the bost evidence that the nature of the case admits; (Grasmannin J. Halken (b) the survey notes have been truly compiled from surveys made by me or made under my supervision; and (c) this survey and accompanying survey notes comply with the relevant logislation affecting surveys and are correct for the purpose of Launceston

Date 26/

G. J. WALKEM & SURVEYORS & PLA SURVEYORS & PLA 22 ELIZABETH ST LAUNCESTON : TELEPHONE 31

CDRAINAGE 3.00 4325m2 V 002457 7109 TO WIND U B161 H2 3.691 ha 7319m2 201.178 3 131.515 0 BOYRS 60 O.SPINE S 14.202 © 189.780 4.0 21.958 SURVEY 310"11"36" 374.202 SP7189 310"11"05" 374.186 (SP 95263 (SP 51963 (SP 4881) (SP 3344) [SP 10291]

Page 2 of 3

1

MYAZORALE

Z A Z

ROAD

0

21958

es

JC EVANDA

といると

ROAD

FOAU

RECORDER OF TITLES

sued Pursuant to the Land Titles Act 1980

40×1491

@ BB. 552

03

314, 20,

7 189 73192

186.990

369/40

30"

T 23.138

367 (TOT)

91.171

01612

W

20, 00,

ry T

7109

9062m2

250

N

TOT 162.3645 100

RECORDER OF TITLES

ssued Pursuant to the Land Titles Act 1980

The subdivision shown in this Plan APPROVAL BY LOCAL AUTHORITY

Insert here any qualification to the approval under section 468 (12), section 472 or section 4771 of the Local Government Act

tule through any blank space.

In witness whereof the common seal of The Warden, Councillors and Electors of the Municipality of Evandale (Tasmania)

has been hereunic affixed, pursuant to a resolution of the Council of the said municipality passed the 8th day of August, 1983, in the presence of us this 8th day of August, 1983.

BY COUNCIL CLERK OR OWNER	
TO BE COMPLETED AND SIGNED	ONAL
C	
Council Cle	- Chron
10. 99.5	7
A Members	X P
A Comment of the Comm	Mul
Δ.	,

TO BE COMPLETED WHEN ADDITIONAL SHEETS ARE ANNEXED

Council's Reference

635.576 ===) 43° 23' 50"

Detailed drawings of the parcels shown in this plan are contained in the additional sheet(s) annexed hereto and signed by us

For the purposes of section 464 of the Local Government Act 1962, the owner has nominated/1 nominate

As his/Hig Solicitor.

LEVIS, HAND & OGILVIE

Council Clerk Surveyor

TO BE FILLED IN BY SURVEYOR

Error of CloseSEE CALCS. Survey finished. Survey commenced. 6th JULY 1983 21 ST JUNE 1983

OFFICE EXAMINATION B 8-12-83 8-12-83

Examined as to Boundaries. Mathematically Checked B. 12 83

05-8 1110

As his/Kip Surveyor GRAMME JOHN Surveyor's Certificate WALKEM & CO. Council Clerk/Owner

in Tasmania, registered surveyor, hereby certify that this plan:

WALKER

Has been made from surveys executed by me or a registered
pupil under my personal supervision, utspection, and fieldcheck, and that both plan and survey are correct and have
been made in accordance with the Land Surveyors ByLaws 1966;

 Complies with all statutory provisions relating to anything appearing thereon; and Requires the approval of the local authority, which has been obtained (as dear not require the approval of my lead authority)

Surveyor's Reference. 2087 day of Time Registered Surveyor

Dated this,

Page 3 of 3 earch Date: 07 Aug 2020

Search Time: 11:51 AM

Revision Number: 02

Page 1 of 1



SEARCH DATE : 26-Jun-2020 SEARCH TIME : 04.44 PM

DESCRIPTION OF LAND

SCHEDULE 1

C320267 & E209894 EDWARD EIWEIL NEWTON

Registered

21-Feb-2020 at 12.01 PM

Prior CT 21958/2

Lot 6 on Plan 148609

Derivation : Part of 324 Acres Gtd to Thomas Gee

Parish of BREADALBANE Land District of CORNWALL

SCHEINGLE 2

Reservations and conditions in the Crown Grant if any

SP 21958 BURDENING EASEMENT: a right of drainage (appurtenant

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980

148609 VOLUME

EDITION N

DATE OF ISSUE 21-Feb-2020

SEARCH OF TORRENS TITLE

FOLIO 6

OWNER: PATRICIA MAY NEWTON, EDWARD ELWELL NEWTON, ALEXANDER MCGREGOR



RECORDER OF TITLES

REGISTERED NUMBER P148609

Tasmanian Government

ssued Pursuant to the Land Titles Act 1980

GRANTED SART-OF 81.—21—19p-GRANTED TO SAILLIAN KATESON, PART OF 324 ACRES FOLIO REFERENCE: FR. 21958 - 2, FR. 34101 - 1
FR. 34101 - 2 BY SURVEYOR LOCATION PLAN OF SURVEY PARISHES OF BREADALBANE-S-PERTH LAND DISTRICT OF CORNWALL M.R.ROSE OF 2/3 WALDEN STREET, NEWSTEAD 7250

EFFECTIVE FROM Recorder of Titles -5 JUN 2007

LENGTHS IN METRES CROSS REFERENCED ON THIS PLAN

SCALE 1: 800 LAST PLAN: SP 21958 SP 34101

CODE No. 123 /5040 -55

LAST UPI No

FET 95

GRANTED TO THOMAS GEE

LOT 6 IS COMPILED FROM FR 21958 - 2 AND THIS SURVEY LOT 5 IS COMPILED FROM FR 34181 - 1 AND THIS SURVEY LOT 4 IS COMPILED FROM FR 34101 - 2 AND THIS SURVEY (5.2.150770) [SP 129904]

(SP 34161) 5763m² 321*25' 20.00 055m² THE CROWN (SP 129904)

6368m² (SP 34101) u MAN Son Care EV AND ALE 5.50 56*00 0409 (** de de) (SP 64958) (SP 14.0859)

(SP 135030) (SP 34101) (SP 7189) SNHOP STREET BORAL 7098m² (SP 21958) ROAD (SP 21958) 156.54

RICHARD ST

(SP 136826)

(SP 110112)

UNREGISTERED DEALINGS AND NOTATIONS

SP 21958 COVENANTS in Schedule of Easements SP 7189 ${\rm \&}$ SP 21958 FENCING COVENANT in Schedule of Easements

Sealed Plan) over the Drainage Easement 3.00 wide

shown passing through the said land within described

balance of the land comprised in Certificate of Title

Volume 3508 Folio 75 at the date of acceptance of the to Lot 5 on SP 21958, Lots 4 & 5 on P.148609 and the

E209891 MORTGAGE to Commonwealth Bank of Australia

Registered 21-Feb-2020 at 12.02 PM

No unregistered dealings or other notations

Search Date: 26 Jun 2020

Search Time: 04:45 PM

Revision Number: 01

Page 1 of 1

Volume Number: 148609

Page 1 of 1

RECORDER OF TITLES ssued Pursuant to the Land Titles Act 1980

RECORDER OF TITLES

VOLUME SEARCH OF TORRENS TITLE FOLIO Tasmanian Governmer

21-Feb-2020 DATE OF ISSUE

רט

ssued Pursuant to the Land Titles Act 1980 EDITION 148609

SEARCH TIME : 04.44 PM SEARCH DATE : 26-Jun-2020

ALL CONRER MARKS ARE O'S UNLESS OTHERWISE SHEWN, ALL BOUNDARIES ARE OPEN UNLESS OTHERWISE SHEWN. THE AGE OF THE HARKS FOLMO APPEARS CONSISTENT WITH THE ORIGIN HOTED.

USED AS PART OF THIS SURVEY SHEET 1 OF 1 SHEETS SURVEY NOTES

DESCRIBE BY REPORT THE EVIDENCE USED TO DETERMINE BOUNDARIES

P148609 Registered Number

In Tasmania a registered land surveyor HEREBY CERTIFY that:

of NEWSTEAD

SURVEY CERTIFICATE

MICHAEL R. ROSE

(a) this survey is based upon the best evidence that the nature of the case admits the survey sizes how been truly campiled from surveys to the survey notes how been truly supervision; and the survey notes those under my supervision; and (d) this survey and accompanying survey nates comply with the relevant teglislation affecting surveys and are correct for the natural surveys and are correct for the natural surveys.

Date 12 , 9 , 2006

Surveyors Reference: 923

14.5.7.8.9.10,11 & 12 fixed per 58.219518 applying mean & 11º10'15". 8,9 & 12 not marked being

within proposed road widewing.

5-6 fixed on read wildering alignment per SPT189 K11º10 40

REPORT MUA datum per 59. 141987

DESCRIPTION OF LAND

Prior CT 34101/1 Derivation : Part of 324 Acres Gtd. to Thomas Gee. Lot 5 on Plan 148609 Parish of BREADALBANE Land District of CORNWALL

SCHEDULE 1

C320267 & E209894 EDWARD ELWELL NEWTON 21-Feb-2020 at 12.01 PM Registered

SCHEDULE 2

Reservations and conditions in the Crown Grant if any SP 34101 BURDENING EASEMENT: a right of drainage (appurtenant Register Volume 4061 Folio 80) over the Drainage Easement 3.00 wide shown passing through the said the balance of the land comprised in Folio of the to Lot 4 on Plan 148609, Lots 3 & 5 on SP 34101 and land within described

SP 34101 BENEFITING EASEMENT: a right of drainage over the 6 on Plan 148609 Drainage Easement 3.00 wide shown passing through Lot

SP 21958 FENCING COVENANT in Schedule of Easements SP E209891 SP 7189 SP 34101 SP NOTICE: This Folio is affected as to amended 34101 21958 COVENANTS in Schedule of Easements FENCING COVENANT in Schedule of Easements COVENANTS in Schedule of Easements FENCING COVENANT in Schedule of Easements Registered 21-Feb-2020 at 12.02 PM MORTGAGE to Commonwealth Bank of Australia B291505A made under Section 481 of the Local easements/covenants pursuant to Request to Amend No Government Act 1962. Search Sealed Plan No 34101

UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations

HUMANY TILL STANDARD	1-589	
Lowpaised 3a. la 198732199" HOS. HOI Cale SUNAY 188732199" HOS. HOI Cale SK 21958 A Compation Be-16. 17818150" ZIZ-578 Cale SUNAY 1670830" ZIZ-583 Cale SK 21958 dast A 11°1015" Adopted Mean difference Displas par SK 21858 in viewity of © due to resembling.	Hech Scale factor 0.999603 Hech Scale factor 0.999603 Hech Keight factor 0.999773 Combined factor 0.999773 Combined factor 0.999773 Combined factor 0.999773 Sorrey communicated 24-8-2006 Closing error -ail Losing error -ail Losing error -ail	
SULVAY SR 21958 All'010'05" L SULVAY SR 21958 GGTW. All'010'24" W difference. Mart found	(SP. 34/01 - 2 32/04/50 A. MCGTBAGOY - DWHEET PM & EE NEWTON - DWHEET SP. 34/01-1 PM & EE NEWTON - DWHEET SP. 24/958) CT. 21958 - 2 PM & EE NEWTON - DWHEET Sp. 25 24/958) CT. 21958 - 2 PM & EE NEWTON - DWHEET Sp. 25 24/958 - 2 BOR. AL (Capage by Cathelians) (Capage by Cathelians) (Capage by Cathelians) Cathelians Cathelians (Capage by Cathelians) Cathelians (Capage by	1 (A11"1040" SK 1189) KAW 3040 3.
(SR 146537) SP/1843 8813 (SI 146537)	St. 10	11.65

Volume Number: 148609 Revision Number, 01

Department of Primary Industries, Parks, Water and Environment

Search Time: 04:45 PM

www.thelist.tas.gov.au

Page 1 of 1

Denartment of Primary Industries, Parks, Water and Environment