



## **ORDINARY MEETING OF COUNCIL**

### **ATTACHMENTS TO REPORTS**

**20 July 2020**



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## DA 41/2020 5 Sandy Crescent WYNYARD

**Proposal:** Multiple Dwelling (5 Units, Strata)

**Discretionary Matter:** Setbacks and building envelope for all dwellings 10.4.2 (P3), Site coverage and private open space for all dwellings 10.4.3 (P2), Privacy for all dwellings 10.4.6 (P3), Suitability of a site or lot for use or development 10.4.9 (P1) & Setback of development for sensitive use 10.4.12 (P1, P2)

**REPRESENTATIONS CLOSE ON:  
Monday 29 June 2020**

**Please Note:**

All documents contained herewith are for public viewing only and must not be removed from the Council offices.

2603235

Documents Enclosed	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon
Application Form											
Site Notice											
Location Map											
Supporting Documentation by EnviroPlan dated March 2020 including Titles and Letter from Owner regarding Covenants											
Road Access and Stormwater Drainage Assessment											
Proposal Plans by Hotondo Homes											
Request for Additional Information dated 5.05.2020											
Additional Information Request Response by EnviroPlan dated 25.05.2020											
TasWater's Submission to Planning Authority Notice											





**PLANNING PERMIT APPLICATION**  
**APPLICATION FOR PLANNING APPROVAL UNDER SECTION 51,**  
**LAND USE PLANNING & APPROVALS ACT 1993**

<b>PERMITTED APPLICATION</b> - Assessment and determination of a permit application under <i>SS8 Land Use Planning and Approvals Act 1993</i>	\$250.00 plus \$1.15 per \$1,000 of value for use or development
<b>DISCRETIONARY APPLICATION</b> - Assessment and determination of a permit application under <i>SS7 Land Use Planning and Approvals Act 1993</i>	\$350.00 plus \$1.50 per \$1,000 of value for use or development + advertising fee
<b>Level 2 "Environmental Activity" - Additional charge to permit application</b>	\$460.00 + advertising fee by quote
Advertising fee will be reimbursed if no advertising is required	
Please refer to <a href="http://www.warwyn.tas.gov.au">www.warwyn.tas.gov.au</a> (Council Services - Planning Services - Planning Fees) for all other fees	

Is a hard copy of planning permit and endorsed documents required? Yes ..... No **X** .....

1. Value of work (inc GST) \$ 1,080,000.00 ..... Contract Price ..... Estimate **X** .....

2. Development Address Lot 46, 5 Sandy Crescent, Wynyard .....

3. Full Name of Applicant(s) Hotondo Homes North West Tas/Alex Jones .....

Contact Details: Address: PO Box 522, Somerset Tas, 73252 .....

Email Address admin@hotondonw.com.au .....

Telephone - Day 6435 1476 ..... Mobile .....

For requests in hardcopy format all correspondence in relation to this application, will be sent to the postal address, otherwise all correspondence will be forwarded to the email address)

4. Would you like the contact address recorded above to be applied for all future Council correspondence? (including rates/animal control etc)? Yes ..... No **X** .....

5. **WHERE THE APPLICANT IS NOT THE OWNER**  
 In accordance with Section 52 of the *Land Use Planning and Approvals Act 1993* if the applicant for the permit is not the owner of the land in respect of which the permit is required, the applicant must include in the application for the permit, a declaration that the applicant has notified the owner of the intention to make the application.

In the event that the property is owned or managed by the Crown or Council, this application is to be signed by the relevant Crown Minister responsible, or General Manager of the Council, and accompanied by written permission of the Minister/General Manager to the making of this application.

Name of Property Owner (see authorisation below)

Full Name Ashwin Nathan ..... Telephone - Home .....

Address 11 Oval Street ..... Telephone Work/Business .....

Toonagbbie NSW 2146 .....

**Applicant's Notification to Owner**  
 I Alexandra Jones .....  
 Full Name of Applicant(s)

of 65 Bass Highway, Somerset 7322 .....  
 Applicant's Address

Declare that I/we have notified the owner(s) of the property(ies) of the intention to make this application.  
 I/We understand that in accordance with Section 52(2) of the *Land Use Planning and Approvals Act 1993* a person must not obtain or attempt to obtain a permit by wilfully making, or causing to be made, any false representation or declaration either orally or in writing.

Applicant's Signature(s) [Signature] .....

Planning Permit Application Form - ECM 1029767 File 014.10

6. Proposed Development (Fully describe intended use of land or premises)

Multiple unit development

7. Supporting Information if necessary to explain special features of the proposal.

(Attach separate sheet if required)

To include –

- a. One Copy (electronic copy if available) of any plan(s) and/or specification(s) for the proposed development, showing where applicable:

- ☐ i. Sufficient information to demonstrate compliance with all applicable standards, purpose statements in applicable zones and codes, any relevant local area objectives or desired future character statements;
- ☐ ii. a full description of the proposed use or development;
- ☐ iii. a full description of the manner in which the use or development will operate;
- ☐ iv. a site analysis and site plan at an acceptable scale;
- ☐ v. a detailed layout plan of the proposed buildings with dimensions at a scale of 1:100 or 1:200;
- ☐ vi. a plan of the proposed landscaping;
- ☐ vii. car parking facilities and capacity;
- ☐ viii. area of clearing of trees and bushland;
- ☐ ix. size, position, colour, illumination, fixing or support and other design details of advertising sign(s).

- b. A full copy of your title shall also accompany the application.

Title Certificate ☐

Title Plan ☐

Schedule of Easements ☐

- c. Relevant engineering pre-lodgement approvals

Access ☐

Stormwater ☐

8. Present use of site and/or buildings – full description

Vacant land

9. Car Parking

Floor Area

Site Area

Existing on site .....

Existing ..... m<sup>2</sup>

2996 .....m<sup>2</sup>

Total no. proposed .....

Proposed ..... m<sup>2</sup>

Total .....m<sup>2</sup>

**Questions 10 to 13 relate to Commercial and Industrial Uses and Developments only**

10. What days and hours of operation are proposed?

Monday to Friday: From ..... a.m. to ..... p.m.

Saturday: From ..... a.m. to ..... p.m.

Sunday: From ..... a.m. to ..... p.m.

11. Number of Employees?

Existing .....

Proposed .....

12. Vehicles visiting or delivering to or from the site?

Type	No.	Trips per day
.....	.....	.....
.....	.....	.....

13. What type of machinery is to be installed or used?

Type	No.
.....	.....
.....	.....

**DECLARATION BY APPLICANT (mandatory)**

I declare that the information given is a true and accurate representation of the proposed development. I understand that the information and materials provided with the development application may be made available to the public. I understand that the Council may make such copies of the information and materials as in its opinion are necessary to facilitate a thorough consideration of the Permit Application. I have obtained the relevant permission of the copyright owner for the communication and reproduction of the plans accompanying the development application for the purposes of assessment of that application. I indemnify the Waratah-Wynyard Council for any claim or action taken against it in respect of breach of copyright in respect of any of the information or material provided.

I/We hereby acknowledge that Section 20(a) of the *Local Government Act 1993* provides the power for persons authorised by the General Manager to enter land without notice in relation to an application by the owner or occupier for a licence, permit or other approval given by the council.

Signature(s) .....  
(all applicants to sign)

Date 12.03.20 .....



## NOTICE OF PROPOSED DEVELOPMENT

Notice is hereby given that an application has been made for the following development:-

**No.:** DA 41/2020

**LOCATION:** 5 Sandy Crescent WYNYARD

**APPLICANT:** Hotondo Homes North West Tas / Alex Jones

**ZONING:** Residential

**USE CLASS:** Residential

**PROPOSAL:** Multiple Dwelling (5 Units, Strata)

**DISCRETIONARY MATTER:**  
**Setbacks and building envelope for all dwellings 10.4.2 (P3), Site coverage and private open space for all dwellings 10.4.3 (P2), Privacy for all dwellings 10.4.6 (P3), Suitability of a site or lot for use or development 10.4.9 (P1) & Setback of development for sensitive use 10.4.12 (P1, P2)**

The application and associated plans and documents will be available for inspection during normal office hours for a period of 14 days from the date of this notice at the Council Office, Saunders Street, Wynyard or can be viewed on the Council website [www.warwyn.tas.gov.au](http://www.warwyn.tas.gov.au).

Any person who wishes to make representations in accordance with the *Land Use Planning and Approvals Act 1993*, must do so during the 14-day period.

Representations in writing will be received by the General Manager, PO Box 168, Wynyard, 7325, email [council@warwyn.tas.gov.au](mailto:council@warwyn.tas.gov.au) by **Monday 29 June 2020**.

Dated Saturday 13 June 2020.

**Shane Crawford**  
**GENERAL MANAGER**







Application for Planning Permit  
**PROPOSED UNIT DEVELOPMENT**  
In the  
**GENERAL RESIDENTIAL ZONE**  
5 Sandy Crescent, Wynyard

Supporting Documentation

March 2020

#### CONSULTANT DETAILS



Mr. Micheal Wells GradDipUrbanRegPlan.BEnvDes  
Town Planner, Bushfire Assessor, Building Designer, Fire Engineer (IFE)  
Bushfire Accreditation No: BFP-128

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#### Document Status

Revision No	Author	Signature	Date
1	M. Wells		March 2020

#### Engagement & Invoicing Directions

EnviroPlan Australia (*the Agent*) has been engaged by «Land\_Owner» (the *Permit Holder*) to prepare documentation for a planning permit located on land known as «Dev\_Address», «Dev\_Town». Any Permit issued is affixed to land and not an individual.

The services rendered by *the Agent* are strictly limited to the preparation of documentation in order to obtain planning permissions only. *The Agent* is not to be considered as the "permit holder" as part of any permit condition issued by any Authority and is not responsible for any costs incurred through a *Permit Holder* enacting a permit condition.

In such circumstances where the primary *Permit Holder* named above sells land or otherwise relinquishes the land; the new permit holder is the party responsible for all costs and invoices incurred by enacting any permit issued that is affixed to the land.

### **The Land – Site**

#### **Title & Description**

The Certificate of Title for the subject site is C/T: 143309/46, PID 2603235. A copy of the title is provided as Annexure A.

The street address is 5 Sandy Crescent, Wynyard and Ashwin Nathan is the owner.



Figure 1 – Location of land 5 Sandy Crescent, Wynyard

The 0.2 Ha property fronts onto Sandy Crescent and is located on southern side of the road.

#### **Existing Use and Development**

The current use of land is vacant land. Currently there are no dwellings located on the property.

#### **Site Analysis**

##### **Topography**

The site is very flat and sits at the 5m AHD contour level.

##### **Drainage**

Stormwater is disposed of through a stormwater main that run north of the allotment abutting the site access. Sewerage is disposed of via the sewerage main that is located on Sandy Crescent within the same location.



### Land Capability

The land is within a delineated area of the Land Capability Survey Tasmania by RM Morton and C-J Grose; Department of Primary Industry and Fisheries: Tasmania 1997. The soil classification of the subject site is Class 5.

However, the land is not zoned as agricultural land nor is it in agricultural use; therefore this provision is not applicable.



Figure 2 – Land Capability of site – source: [www.thelist.tas.gov.au](http://www.thelist.tas.gov.au)

### Access

Access to the subject land is off Sandy Crescent via a formed urban crossover.

### Reticulated Services

Water, sewerage and stormwater reticulation services are located within the subject area. The site is already connected to these services however these are anticipated to be upgraded as part of this proposal.

### Surrounding Property Use

- North is residential uses;
- East is residential uses;
- South is vacant industrial land; and
- West is residential uses.

### Lands Limitations

No land limitations have been identified within the property boundaries.

### Proposal

The applicant, Hotondo Homes OBO Ashwin Nathan are seeking to construct a dwelling units under the *Waratah -Wynyard Interim Planning Scheme 2013*.

The proposal is 5 x 3 bedroom units with internal garage which is distributed across the site skirting the boundaries of the property.

A copy of the proposal plans is included as **Annexure C**.

The applicant is applying to the Council, as the Planning Authority, to utilise its discretion and approve the development in accordance with the provisions of **Section 57** of the *Land Use Planning and Approvals Act 1993*.

### **Planning Scheme Provisions**

The applicable planning instrument is the *Waratah Wynyard Interim Planning Scheme 2013* and the subject land is zoned as General Residential.

The relevant sections of the Planning Scheme are listed below for discussion. The relevant issue and item identifier is provided and states whether the proposal meets the Acceptable Solutions (AS) or the Performance Criteria (PC) for each relevant section.

The clauses that are not applicable to the proposal have not been discussed.

The applicable Scheme standards for development in the **General Residential Zone** are described in the following relevant sections of the *Burnie Interim Planning Scheme 2013*.

#### **10.0 General Residential Zone**

- 10.1.1 Zone Purpose Statements
- 10.1.2 Local Area Objectives
- 10.1.3 Desired Future Character Statements

#### **10.2 Use Table**

#### **10.3 Use Standards**

- 10.3.1 Discretionary Permit Use

#### **10.4 Development Standards**

- 10.4.1 Residential density for multiple dwellings
- 10.4.2 Setbacks and building envelope for all dwellings
- 10.4.3 Site coverage and private open space for all dwellings
- 10.4.4 Sunlight and overshadowing for all dwellings
- 10.4.5 Width of openings for garages and carports for all dwellings
- 10.4.6 Privacy for all dwellings
- 10.4.7 Frontage fences for all dwellings
- 10.4.8 Waste storage for multiple dwellings
- 10.4.9 Suitability of a site or lot for use or development
- 10.4.10 Dwelling density for single dwelling development

#### **Part E Codes**

- E2 Airport Impact Management Code
- E9 Traffic Generating Use and Parking Code

## Part F Special Area Plans

- There are no specific area plans in relation to the **Waratah-Wynyard Interim Planning Scheme 2013**

## 10.0 General Residential Zone

### 10.1 Zone Purpose

#### 10.1.1 Zone Purpose Statements

**10.1.1.1** -To provide for residential use or development that accommodates a range of dwelling types at suburban densities, where full infrastructure services are available or can be provided.

**10.1.1.2** -To provide for compatible non-residential uses that primarily serve the local community.

#### 10.1.2 Local Area Objectives

This zone applies for land at -

- (a) Suburban residential area make efficient use of land and optimise available and planned infrastructure provision through a balance between infill and redevelopment of established residential areas and incremental release of new land
- (b) Suburban residential areas provide equivalent opportunity for single dwelling and multiple dwelling developments and for shared and supported accommodation through private, public, and social investment.
- (c) Suburban residential areas enable opportunity for convenient access to basic level services and facilities for education, health care, retail, social, and recreation purposes;
- (d) Suburban residential areas provide small-scale employment opportunities in home occupation and home based business.
- (e) The amenity and character of suburban residential use is commensurate with the location of housing and support activity within a shared urban setting, and is to take into account –
  - (i) the likely impact on residential use from the occurrence and operation of non-housing activity;
  - (ii) the effect of location and configuration of buildings within a site on –
    - a. apparent bulk and scale of buildings and structures;
    - b. opportunity for on-site provision of private open space and facilities for parking of vehicles;
    - c. opportunity for access to daylight and sunlight;
    - d. visual and acoustic privacy of dwellings; and
    - e. consistency of the streetscape; and
  - (iii) the relationship between new sensitive use and the use of land in an adjoining zone

#### 10.1.3 Desired Future Character Statements

Use or development in a suburban residential area is to provide –

- (a) housing as a predominant but not exclusive form of development;
- (b) choice and diversity in the design, construction, and affordability of buildings;
- (c) buildings that are typically of one or two storeys;
- (d) buildings that are set apart from adjacent buildings to –
  - (i) reduce apparent bulk and scale;
  - (ii) enable each an opportunity for access to sunlight; and
  - (iii) assist visual and acoustic privacy between adjoining dwellings;
- (e) a streetscape in which buildings are setback consistently from the frontage;
- (f) site coverage that retains sufficient external ground area for recreation, service activity, and vehicle parking; and
- (g) an ordered pattern of lots and a well-connected internal road network

## 10.2 Use Table

## 10.3 Use Standards

### 10.3.1 Discretionary Permit Use

**Objective:**

*Use in this zone that is a discretionary permit use is to service and support the routine requirements of the local community*

**Performance Criteria P1**

*Discretionary permit use must –*

- (a) be consistent with local area objectives;*
- (b) be consistent with any applicable desired future character statement; and*
- (c) minimise likelihood for adverse impact on amenity for use on adjacent land in the zone*

**Discussion:**

The proposal is not inconsistent with the local area objectives and is consistent with the relevant desired future character statements. It does not cause an adverse impact on the amenity of use on adjacent land within the zone.

## 10.4 Development Standards

### 10.4.1 Residential density for multiple dwellings

**Objective:**

*To provide for suburban densities for multiple dwellings that:*

- (a) make efficient use of suburban land for housing; and*
- (b) optimise the use of infrastructure and community services.*

**Acceptable Solutions A1**

*Multiple dwellings must have a site area per dwelling of not less than:*

- (a) 325m<sup>2</sup>; or*
- (b) if within a density area specified in Table 10.4.1 below and shown on the planning scheme maps, that specified for the density area.*

**Discussion:**

Each dwelling unit has a site area greater than 325m<sup>2</sup> as demonstrated on the submission plans satisfying A1(a) above.

**Table 10.4.1**

**Density area**

*This clause does not apply*

**Site area per dwelling (m<sup>2</sup>)**

### 10.4.2 Setbacks and building envelope for all dwellings

**Objective:**

*To control the siting and scale of dwellings to:*

- (a) provide reasonably consistent separation between dwellings on adjacent sites and a dwelling and its frontage; and*
- (b) assist in the attenuation of traffic noise or any other detrimental impacts from roads with high traffic volumes; and*
- (c) provide consistency in the apparent scale, bulk, massing and proportion of dwellings; and*
- (d) provide separation between dwellings on adjacent sites to provide reasonable opportunity for daylight and sunlight to enter habitable rooms and private open space.*

#### **Acceptable Solutions A1**

*Unless within a building area, a dwelling, excluding protrusions (such as eaves, steps, porches, and awnings) that extend not more than 0.6 m into the frontage setback, must have a setback from a frontage that is:*

- a) if the frontage is a primary frontage, at least 4.5 m, or, if the setback from the primary frontage is less than 4.5 m, not less than the setback, from the primary frontage, of any existing dwelling on the site; or*
- b) if the frontage is not a primary frontage, at least 3 m, or, if the setback from the frontage is less than 3 m, not less than the setback, from a frontage that is not a primary frontage, of any existing dwelling on the site; or*
- c) if for a vacant site with existing dwellings on adjoining sites on the same street, not more than the greater, or less than the lesser, setback for the equivalent frontage of the dwellings on the adjoining sites on the same street; or*
- d) if the development is on land that abuts a road specified in Table 10.4.2, at least that specified for the road.*

#### **Discussion:**

The closest unit to the frontage is set back 11.2m from the northern boundary complying with A1 above.

#### **Acceptable Solutions A2**

*A garage or carport must have a setback from a primary frontage of at least:*

- (a) 5.5 m, or alternatively 1 m behind the façade of the dwelling; or*
- (b) the same as the dwelling façade, if a portion of the dwelling gross floor area is located above the garage or carport; or*
- (c) 1 m, if the natural ground level slopes up or down at a gradient steeper than 1 in 5 for a distance of 10 m from the frontage.*

#### **Discussion:**

No garages or carports face toward a primary frontage as demonstrated on the submission plans. The proposal is therefore compliant with A2(a) above.

#### **Performance Criteria P3**

*The siting and scale of a dwelling must:*

- (a) not cause unreasonable loss of amenity by:*
  - (i) reduction in sunlight to a habitable room (other than a bedroom) of a dwelling on an adjoining lot; or*
  - (ii) overshadowing the private open space of a dwelling on an adjoining lot; or*
  - (iii) overshadowing of an adjoining vacant lot; or*
  - (iv) visual impacts caused by the apparent scale, bulk or proportions of the dwelling when viewed from an adjoining lot; and*
- (b) provide separation between dwellings on adjoining lots that is compatible with that prevailing in the surrounding area.*

#### **Discussion:**

The siting of the units do not cause an unreasonable loss of amenity onto an adjoining lot as each dwelling unit is south of adjoining lots nor cause overshadowing to the private open space of an adjoining lot.

The dwelling units when viewed from an adjoining lot is not visually intrusive as the lowest roof line is parallel to the rear boundary – reducing visual bulk when viewed from neighbouring parcels of land.

The separation between dwellings is compatible with the surrounding area as shown on the aerial image in Figure 1 above.

#### **10.4.3 Site coverage and private open space for all dwellings**

##### **Objective:**

To provide:

- (a) for outdoor recreation and the operational needs of the residents; and
- (b) opportunities for the planting of gardens and landscaping; and
- (c) private open space that is integrated with the living areas of the dwelling; and
- (d) private open space that has access to sunlight.

**Acceptable Solutions A1**

Dwellings must have:

- (a) a site coverage of not more than 50% (excluding eaves up to 0.6 m); and
- (b) for multiple dwellings, a total area of private open space of not less than 60 m<sup>2</sup> associated with each dwelling, unless the dwelling has a finished floor level that is entirely more than 1.8 m above the finished ground level (excluding a garage, carport or entry foyer); and
- (c) a site area of which at least 25% of the site area is free from impervious surfaces.

**Discussion:**

Each dwelling site is not more than 50% as demonstrated on the submission plans.

The POS per dwelling is as per Table 1 below.

Unit No	POS (m <sup>2</sup> )	Site Coverage(m <sup>2</sup> )	% of coverage
Unit 1	191.78	159.93	43.5
Unit 2	171.49	159.93	48.2
Unit 3	215.93	159.93	47.8
Unit 4	175.37	159.93	48.75
Unit 5	176.81	159.93	48.42

As the POS of each dwelling site is a grassed are – each site area is greater than 25% free from impervious surfaces satisfying A1 above.

**Performance Criteria P2**

A dwelling must have private open space that:

- (a) includes an area that is capable of serving as an extension of the dwelling for outdoor relaxation, dining, entertaining and children's play and that is:
  - (i) conveniently located in relation to a living area of the dwelling; and
  - (ii) orientated to take advantage of sunlight.

**Discussion**

The POS per dwelling is as per Table 2 below.

Unit No	POS (m <sup>2</sup> )
Unit 1	191.78
Unit 2	171.49
Unit 3	215.93

Unit 4	175.37
Unit 5	176.81

The proposal provides each dwelling with POS that is in one location and each exceeds 24m<sup>2</sup>. Each POS space has a horizontal dimension exceeding 4m and is accessed directly off the living room to each dwelling (see submission plans).

Unit 5 of the plan has a small window adjacent to the door off the living area which is orientated to the north. Additional windows are located on the western façade of the building with access to the POS from the south (dining room) and east through the laundry sliding door. This POS extends to the north adjacent to the visitors car parking space. The POS area predominantly takes advantage of the western exposure however the POS also extends to the east of the dwelling and receives sunlight from the early morning.

Each POS are is located on the northern aspect as per the site plans. The site is flat and the areas are not used for parking as per the submission plans.

#### 10.4.4 Sunlight and overshadowing for all dwellings

##### Objective:

To provide:

- (a) the opportunity for sunlight to enter habitable rooms (other than bedrooms) of dwellings; and
- (b) separation between dwellings on the same site to provide reasonable opportunity for daylight and sunlight to enter habitable rooms and private open space.

##### Acceptable Solutions A1

*A dwelling must have at least one habitable room (other than a bedroom) in which there is a window that faces between 30 degrees west of north and 30 degrees east of north (see Diagram 10.4.4A).*

##### Discussion

Each dwelling unit enables sunlight to penetrate into the living room area via the northern access window as shown on the submission plans.

Unit 5 of the plans does contain a window that is adjacent to the entry door off the living room. Whilst this is a small window – the provision does not specify window sizes. Further, this window sits exactly on the N30°E line as shown in the site plan drawings, sheet 1 - "York 135" as well as Elevation 1 on sheet 3 of the submission plans.

Whilst the windows on the western elevation of unit 5 notate screening; sunlight penetration is still possible through the top portion of the screen. The planning scheme requires screening form the road to 1.7m in height and the proposal provides 1.82m high windows.

##### Acceptable Solutions A2

*A multiple dwelling that is to the north of a window of a habitable room (other than a bedroom) of another dwelling on the same site, which window faces between 30 degrees west of north and 30 degrees east of north (see Diagram 10.4.4A), must be in accordance with (a) or (b), unless excluded by (c):*

- (a) *The multiple dwelling is contained within a line projecting (see Diagram 10.4.4B):*
  - (i) *at a distance of 3 m from the window; and*
  - (ii) *vertically to a height of 3 m above natural ground level and then at an angle of 45 degrees from the horizontal.*
- (b) *The multiple dwelling does not cause the habitable room to receive less than 3 hours of sunlight between 9.00 am and 3.00 pm on 21st June.*
- (c) *That part, of a multiple dwelling, consisting of:*
  - (i) *an outbuilding with a building height no more than 2.4 m; or*

(ii) protrusions (such as eaves, steps, and awnings) that extend no more than 0.6 m horizontally from the multiple dwelling.

### Discussion

Each dwelling unit is in accordance with A2(a) above as demonstrated on the submission plans.

### Acceptable Solutions A3

A multiple dwelling, that is to the north of the private open space, of another dwelling on the same site, required in accordance with A2 or P2 of subclause 10.4.3, must be in accordance with (a) or (b), unless excluded by (c):

- (a) The multiple dwelling is contained within a line projecting (see Diagram 10.4.4C):
  - (i) at a distance of 3 m from the northern edge of the private open space; and
  - (ii) vertically to a height of 3 m above natural ground level and then at an angle of 45 degrees from the horizontal.
- (b) The multiple dwelling does not cause 50% of the private open space to receive less than 3 hours of sunlight between 9.00 am and 3.00 pm on 21st June.
- (c) That part, of a multiple dwelling, consisting of:
  - (i) an outbuilding with a building height no more than 2.4 m; or
  - (ii) protrusions (such as eaves, steps, and awnings) that extend no more than 0.6 m horizontally from the multiple dwelling.

### Discussion

The proposed unit is compliant to A as evidenced in the submission site plans.

Diagram 10.4.4A. Orientation of a window of a habitable room as specified in subclause 10.4.4 A1, A2 and P2.



Diagram 10.4.4B. Separation from a north-facing window of a habitable room, of another dwelling on the same site, as required by subclause 10.4.4 A2(a).

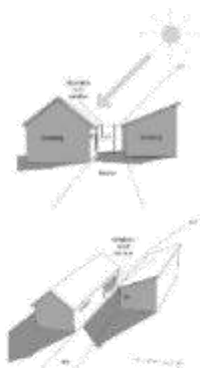
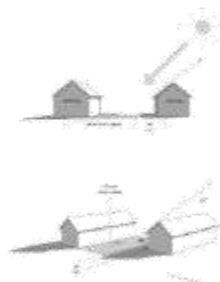


Diagram 10.4.4C. Separation from the private open space of another dwelling on the same site as required by subclause 10.4.4 A3(a).





#### 10.4.5 Width of openings for garages and carports for all dwellings

##### Objective:

To reduce the potential for garage or carport openings to dominate the primary frontage.

##### Acceptable Solutions A1

A garage or carport within 12 m of a primary frontage (whether the garage or carport is free-standing or part of the dwelling) must have a total width of openings facing the primary frontage of not more than 6 m or half the width of the frontage (whichever is the lesser).

##### Discussion

The proposed garages to all units are less than 6m (2.1m x 2.4m) wide satisfying A1 above.

#### 10.4.6 Privacy for all dwellings

##### Objective:

To provide reasonable opportunity for privacy for dwellings.

##### Acceptable Solutions A1

A balcony, deck, roof terrace, parking space, or carport (whether freestanding or part of the dwelling), that has a finished surface or floor level more than 1 m above natural ground level must have a permanently fixed screen to a height of at least 1.7 m above the finished surface or floor level, with a uniform transparency of no more than 25%, along the sides facing a:

- (a) side boundary, unless the balcony, deck, roof terrace, parking space, or carport has a setback of at least 3 m from the side boundary; and
- (b) rear boundary, unless the balcony, deck, roof terrace, parking space, or carport has a setback of at least 4 m from the rear boundary; and
- (c) dwelling on the same site, unless the balcony, deck, roof terrace, parking space, or carport is at least 6 m:
  - (i) from a window or glazed door, to a habitable room of the other dwelling on the same site; or
  - (ii) from a balcony, deck, roof terrace or the private open space, of the other dwelling on the same site.

##### Discussion

Not Applicable – the FFL of all dwellings is below 1m from NGL

##### Acceptable Solutions A2

A window or glazed door, to a habitable room, of a dwelling, that has a floor level more than 1 m above the natural ground level, must be in accordance with (a), unless it is in accordance with (b):

- (a) The window or glazed door:
  - (i) is to have a setback of at least 3 m from a side boundary; and
  - (ii) is to have a setback of at least 4 m from a rear boundary; and
  - (iii) if the dwelling is a multiple dwelling, is to be at least 6 m from a window or glazed door, to a habitable room, of another dwelling on the same site; and
  - (iv) if the dwelling is a multiple dwelling, is to be at least 6 m from the private open space of another dwelling on the same site.
- (b) The window or glazed door:

- (i) is to be offset, in the horizontal plane, at least 1.5 m from the edge of a window or glazed door, to a habitable room of another dwelling; or
- (ii) is to have a sill height of at least 1.7 m above the floor level or has fixed obscure glazing extending to a height of at least 1.7 m above the floor level; or
- (iii) is to have a permanently fixed external screen for the full length of the window or

**Discussion:**

Not applicable – each dwelling has a FFL below 1m from NGL.

**Performance Criteria P3**

*A shared driveway or parking space (excluding a parking space allocated to that dwelling), must be screened, or otherwise located or designed, to minimise detrimental impacts of vehicle noise or vehicle light intrusion to a habitable room of a multiple dwelling.*

**Discussion:**

Units 4 & 5 rely on the performance criteria. The proposal provides screening on the western facades of the two units which provide privacy to the living areas of the dwelling. This screening is 1.7m in overall height form NGL and will enable sunlight penetration over the top of the screen to the living spaces.

#### 10.4.7 Frontage fences for all dwellings

**Objective:**

*To control the height and transparency of frontage fences to:*

- (a) provide adequate privacy and security for residents; and*
- (b) allow the potential for mutual passive surveillance between the road and the dwelling; and*
- (c) provide reasonably consistent height and transparency.*

**Acceptable Solutions A1**

*A fence (including a free-standing wall) within 4.5 m of a frontage must have a height above natural ground level of not more than:*

- (a) 1.2 m if the fence is solid; or*
- (b) 1.8 m, if any part of the fence that is within 4.5 m of a primary frontage has openings above a height of 1.2 m which provide a uniform transparency of not less than 30% (excluding any posts or uprights).*

**Discussion:**

Not Applicable – no frontage fences are proposed by this development.

#### 10.4.8 Waste storage for multiple dwellings

**Objective:**

*To provide for the storage of waste and recycling bins for multiple dwellings.*

**Acceptable Solutions A1**

*A multiple dwelling must have a storage area, for waste and recycling bins, that is an area of at least 1.5 m<sup>2</sup> per dwelling and is within one of the following locations:*

- (a) in an area for the exclusive use of each dwelling, excluding the area in front of the dwelling; or*
- (b) in a communal storage area with an impervious surface that:*
  - (i) has a setback of at least 4.5 m from a frontage; and*
  - (ii) is at least 5.5 m from any dwelling; and*
  - (iii) is screened from the frontage and any dwelling by a wall to a height of at least 1.2 m above the finished surface level of the storage area.*

**Discussion:**

Waste storage areas are featured on the submission plans complying with A1 above.

#### 10.4.9 Suitability of a site or lot for use or development

##### Objective:

*The minimum properties of a site and of each lot on a plan of subdivision are to –*

- (a) provide a suitable development area for the intended use;*
- (b) provide access from a road; and*
- (c) make adequate provision for connection to a water supply and for the drainage of sewage and stormwater*

##### Performance Criteria P1

*A site or each lot on a plan of subdivision must –*

- (a) be of sufficient area for the intended use or development without likely constraint or interference for –*
  - (i) erection of a building if required by the intended use;*
  - (ii) access to the site;*
  - (iii) use or development of adjacent land;*
  - (iv) a utility; and*
  - (v) any easement or lawful entitlement for access to other land; and*
- (b) if a new residential lot, be orientated to maximise opportunity for solar access to a building area*

##### Discussion

The proposed dwelling units provides sufficient space for the intended use as demonstrated on the submission plans and do not constrain or interfere for the erection of a building, access to the site or use of adjacent land. The land does not contain any easement and does not negatively impact on a utility and is orientated to maximise solar penetration into the proposal building areas.

##### Acceptable Solutions A2

*A site or each lot on a subdivision plan must have a separate access from a road –*

- (a) across a frontage over which no other land has a right of access; and*
- (b) if an internal lot, by an access strip connecting to a frontage over land not required as the means of access to any other land; or*
- (c) by a right of way connecting to a road –*
  - (i) over land not required as the means of access to any other land; and*
  - (ii) not required to give the lot of which it is a part the minimum properties of a lot in accordance with the acceptable solution in any applicable standard; and*
- (d) with a width of frontage and any access strip or right of way of not less than –*
  - (i) 3.6 m for a single dwelling development; or*
  - (ii) 6.0 m for multiple dwelling development or development for a non-residential use; and*
- (e) the relevant road authority in accordance with the Local Government (Highways) Act 1982 or the Roads and Jetty Act 1935 must have advised it is satisfied adequate arrangements can be made to provide vehicular access between the carriageway of a road and the frontage, access strip or right of way to the site or each lot on a proposed subdivision plan*

##### Discussion

The site has access across a frontage that no other land has right of access and the proposal is a multiple dwelling development. As such the proposal is to extend the existing crossover to a 6m wide access to facilitate the development complying with A2 above.

##### Acceptable Solutions A3

*A site or each lot on a plan of subdivision must be capable of connecting to a water supply provided in accordance with the Water and Sewerage Industry Act 2008*

##### Discussion:

The site is already connected to TasWater's reticulation network and is capable of being upgraded to cater to the development.

**Acceptable Solutions A4**

*A site or each lot on a plan of subdivision must be capable of draining and disposing of sewage and waste water to a sewage system provided in accordance with the Water and Sewerage Industry Act 2008*

**Discussion:**

The site is already connected to TasWater's sewer reticulation network.

**Acceptable Solutions A5**

*A site or each lot on a plan of subdivision must be capable of draining and disposing of stormwater to a stormwater system provided in accordance with the Urban Drainage Act 2013*

**Discussion**

The site is already connected to Council's stormwater reticulation network and is capable of being upgraded to cater to the development.

**10.4.12 Setback of development for sensitive use**

**Objective:**

*Development for a sensitive use is to –*

- (a) minimise likelihood for conflict, interference, and constraint between the sensitive use and the use or development of land in a zone that is not for a residential purpose; and*
- (b) minimise unreasonable impact on amenity of the sensitive use through exposure to emission of noise, fumes, light and vibration from road, rail, or marine transport*

**Performance Criteria P1**

*The location of a building containing a sensitive use must –*

- (a) minimise likelihood for conflict, constraint or interference by the sensitive use on existing and potential use of land in the adjoining zone; and*
- (b) minimise likely impact from existing and potential use of land in the adjoining zone on the amenity of the sensitive use*

**Discussion**

The proposal is for a sensitive use and does not have a setback of 10m from a utility service and therefore relies upon the performance criteria.

The utilities zone to the south of the property is a defunct railway that has not been operational in 20+ years. Crossings on major roads throughout the municipality have been decommissioned in evidence of the statement.

As such – the proposal does not conflict, constrain or interfere with the existing or potential use of the utility as the corridor itself is decommissioned from use.

In addition to the above – the original subdivider has issued a letter relieving the developer from a restrictive covenant on the title documents which was for the purposes of the railway utility.

**Performance Criteria P2**

*Development for a sensitive use must –*

- (a) have minimal impact for safety and efficient operation of the transport infrastructure; and*
- (b) incorporate appropriate measures to mitigate likely impact of light, noise, odour, particulate, radiation or vibration emissions; or*
- (c) be temporary use or development for which arrangements have been made with the relevant transport infrastructure entity for removal without compensation within 3 years*

**Discussion**

Refer to statements in A1 above.

## Part E Codes

### E1 Bushfire-Prone Areas Code – Not Applicable

The proposal is not a hazardous use, a vulnerable use or a subdivision and therefore is not subject to the provisions of the Code.

### E2 Airport Management Code

The proposal is located within the areas defined within the Air Navigation Services – Aircraft Operations Surfaces on planning scheme maps and is therefore applicable to the code.

#### E2.5 Use Standards

##### E2.5.1 Exposure to Aircraft Noise

The proposal is located approximately 0.55 miles (0.9 km) ('as the crow flies') north east of the main runway. This approach to the runway is commonly used as the predominant wind conditions on the north-west coast of Tasmania are westerly.

Assuming the typical glideslope of 3° to the approach to the runway and a rate of descent of 300 ft per nautical mile to remain on that glideslope; the aircrafts glideslope should be 147.6 ft (44m) above the proposed buildings on approach (factoring in site elevations AHD to the AHD of the airport).

The predominant commercial aircraft used at the **Burnie Airport** is the twin turboprop engined Saab 340 passenger aircraft (of all versions) used by Regional Express Airlines (REX) and the aircraft features "active noise control" as a standard feature of the aircraft. The engine noises of the Saab 340 are:

- Fly-over noise: 78.5 EPNdB
- Sideline noise: 85.9 EPNdB
- Approach noise: 91.5 EPNdB

Source: Saab Aircraft Datasheet 340C

Whilst there is no noise decrease or sound drop per meter, there is a sound level drop of 6 dB per doubling of distance. In calculating noise attenuation by distance (point source), the Sound Pressure Level (SPL) at 136 m from the source is 78.5 dB(A) which supports figures described in the *Saab Aircraft Datasheet 340C* figures for fly-over noise (predominant exposure in westerly conditions).

The Saab 340 series (and all aircrafts of this size) are a 'Group B' sized aircraft with an approach speed of 91 – 120 knots (168.532km/h - 222.24km/h). Therefore the time of exposure to aircraft noise is approximately one minute per event – not hours of continuous exposure that could cause harm.

The effects of continuous dB exposure for site is between 80-90dB which could cause damage over a continuous 8 hour exposure. Therefore; given the seldom approach noise on easterly conditions where damage is like to occur with continuous expose – the likelihood of aircraft to cause harm to human health or to interfere with the amenity of the site is extremely unlikely.

##### E2.5.1 Exposure to Aircraft Noise

###### Objective

- a) The likelihood for aircraft noise to cause harm to human health or to unreasonably interfere with the amenity of non-airport use is to be minimised; and
- b) Non-airport use is to minimise likely interference or constraint on the operation of an airport

###### Acceptable Solutions – A1

- (a) The use must be –

- i. An 'Acceptable' use class for the applicable ANEF noise exposure level as shown on the Table to this clause;  
or  
ii. An 'Acceptable' use class subject to conditions for the ANEF noise exposure level as shown on the Table to this clause;
- (b) Building construction must satisfy AS 2021 (2000) with respect to interior noise levels for the use class; and  
(c) The owner of the site has given written consent for an agreement in accordance with Part 5 of the Land Use Planning and Approvals Act 1993 to be registered on the title indicating likely exposure of use or development to noise nuisance from operations at the airport.

Use Class	Nominated ANEF level	Acceptable
<b>Group 1</b>	Less than 20 ANEF	20-25 ANEF (to Conditions)
Business and professional services		
Food services		
Domestic animal, breeding, boarding or training		
General retail and hire		
Hotel industry		
Research and development		
Service industry		
Tourist operations		
Vehicle fuel sales and service		
Visitor accommodation		
<b>Group 2</b>	Less than 20 ANEF	20-25 ANEF (to Conditions)
Community meeting and entertainment		
Custodial facility		
Educational and occasional care		
Hospital services		
Residential		
Sports and recreation (if including any club and social rooms)		
<b>Group 3</b>	Less than 20 ANEF	20-25 ANEF
Bulky goods sales		
Crematoria and cemeteries		
Extractive industry		
Manufacturing and processing		
Natural and cultural resource management		
Passive recreation		
Pleasure boat facilities		
Recycling and waste disposal		
Resource development		
Resource processing		
Sports and recreation (not involving club and social rooms)		
Storage		
Transport depot and distribution		
Utilities		
Vehicle parking		

**Table E1.5.1 to Clause**

**Discussion:**

The internal fit-out of the proposal shall comply with the AS 2021 (2000) with respect to interior noise levels for a residential dwelling. Likewise, the land owner consents to entering into a Part 5 Agreement with the Waratah Wynyard Council under the *Land Use Planning and Approvals Act 1993* (consent letter attached as **Annexure F**)

**E2.6 Development Standards**

**E2.6.1 Information Requirements**

The proposal is located between existing structures that have received previous Council approvals. The proposal itself is for the construction of a residential dwelling under the building envelope dimensions within the zone and therefore the proposal is not likely to penetrate operational airspace or impact on the operation of aviation facilities.

The location of the subject site is within the flight path for fly-over and seldom approach and features on the centreline to the primary runway on Map 11.

It is unlikely that the proposal will have a significant adverse effect on human health, public safety or amenity or operational airspace or the function of aviation facilities.

**E2.6.2 Protection of operational airspace**

**Objective:**

*Development is to maintain –*

- a) efficient operation and safety of aircraft in operational airspace; and*
- b) function of aviation facilities*

**Acceptable Solution – A1**

*Use or development must not –*

- (a) Penetrate the Obstacle Limitation Surface (OLS); or*
- (b) Interfere with operation of aviation facilities*

**Discussion:**

The use or development does not penetrate the OLS of aircraft operations and is sited under the canopy level of surrounding trees. Likewise the development does not interfere with the operation of aviation facilities as it is residential dwelling units.

**E2.6.3 Public Safety Areas**

**Objective:**

*The likelihood for risk to use from the effect of aircraft accidents near the end of a runway in association with take-off or landing is to be minimised*

**Performance Criteria – P1**

*The airport operator or agency must advise it is satisfied the use or development does not unduly increase –*

- (a) direct risk to people in an aircraft and on the ground;*
- (b) secondary incidents arising from damage to ground facilities in the event of an aircraft incident; and*
- (c) any requirement for the location, design and control of the use or development*

**Discussion:**

The use or development does not penetrate the OLS of aircraft operations and is sited under the canopy level of surrounding trees. Likewise the development does not interfere with the operation of aviation facilities as it is a residential dwelling units.

**E3 Clearing and Conversion of Vegetation Code – Not Applicable**

The proposal does not seek to modify any existing native vegetation communities, habitats or areas of vegetation and therefore this Code is not applicable to this application.

**E4 Change in Ground Level Code – Not Applicable**

The proposal does not alter any ground levels to existing or natural ground levels and therefore this Code is not applicable to this application.

**E5 Local Heritage Code – Not Applicable**

The proposal does not contain any heritage issues and therefore this Code is not applicable to this application.

**E6 Hazard Management Code – Not Applicable**

The proposal site is not subject to coastal inundation, erosion or recession and is not located within a watercourse, wetland or stormwater disposal area and therefore this Code is not applicable to this application.

**E7 Sign Code – Not Applicable**

The proposal does not contain any signage as part of the application and therefore this Code is not applicable to this application.

**E8 Telecommunication Code – Not Applicable**

The proposal is for a residential dwelling and does not contain any telecommunications infrastructure and therefore this Code is not applicable to this application.

**E9 Traffic Generating Use and Parking Code**

**E9.5 Use Standards**

**E9.5.1 Provision for parking**

**Objective:**

*Provision is to be made for convenient, accessible, and usable vehicle parking to satisfy requirements for use or development without impact for use or development of other land or for the safety and operation of any road*

**Performance Criteria – P1**

- a) *It must be unnecessary or unreasonable to require arrangements for the provision of vehicle parking; or*
- b) *Adequate and appropriate provision must be made for vehicle parking to meet –*
  - i. *anticipated requirement for the type, scale, and intensity of the use;*
  - ii. *likely needs and requirements of site users; and*
  - iii. *likely type, number, frequency, and duration of vehicle parking demand*

**Discussion:**

The proposal provides for 2 parking spaces per dwelling and caters to the expected demand of the site. The units are anticipated to contain a single vehicle however the site is capable of additional parking areas to the north of site meeting the needs and requirements of the users for the expected frequency of parking demand complying with P1 above.



#### E9.5.2 Provision for loading and unloading vehicles

**Objective:**

*Provision is made for conveniently located and accessible areas for the loading and unloading of goods and materials and for the pick-up and set-down of passengers from vehicles*

**Acceptable Solution – A1**

*There must be provision within a site for –*

- a) on-site loading area in accordance with the requirement in the Table to this Code; and*
- b) passenger vehicle pick-up and set-down facilities for business, commercial, educational and retail use at the rate of 1 space for every 50 parking spaces*

**Discussion:**

The proposal is a residential use and is not subject to the provision.

#### E9.6.1 Design of vehicle parking and loading areas

**Objective:**

*Vehicle circulation, loading, and parking areas–*

- a) protect the efficient operation and safety of the road from which access is provided;*
- b) promote efficiency, convenience, safety, and security for vehicles and users; and*
- c) provide an appropriate layout and adequate dimension to accommodate passenger or freight vehicle associated with use of the site*

**Acceptable Solution – A1.1**

*All development must provide for the collection, drainage and disposal of stormwater; and*

**Acceptable Solution – A1.2**

*Other than for development for a single dwelling in the General Residential, Low Density Residential, Urban Mixed Use and Village zones, the layout of vehicle parking area, loading area, circulation aisle and manoeuvring area must –*

- a) Be in accordance with AS/NZS 2890.1 (2004) – Parking Facilities - Off Street Car Parking;*
- b) Be in accordance with AS/NZS 2890.2 (2002) Parking Facilities - Off Street Commercial Vehicles;*
- c) Be in accordance with AS/NZS 2890.3 (1993) Parking Facilities - Bicycle Parking Facilities;*
- d) Be in accordance with AS/NZS 2890.6 Parking Facilities - Off Street Parking for People with Disabilities;*
- e) Each parking space must be separately accessed from the internal circulation aisle within the site;*
- f) Provide for the forward movement and passing of all vehicles within the site other than if entering or leaving a loading or parking space; and*
- g) Be formed and constructed with compacted sub-base and an all-weather surface.*

**Discussion:**

The proposal collects and drains stormwater from the site as per the submission documentation satisfying A1.1 above and the proposal complies with AS2890.1 above satisfying A1.2 above.

**Acceptable Solution – A2**

*Design and construction of an access strip and vehicle circulation, movement and standing areas for use or development on land within the Rural Living, Environmental Living, Open Space, Village, or Environmental Management zones must be in accordance with the principles and requirements for in the current edition of Unsealed Roads Manual – Guideline for Good Practice ARRB*

**Discussion:**

Not applicable – the proposal is in the General Residential zone.

#### E10 Water and Waterways Code – Not Applicable

The proposal is located approximately 101 metres away from the nearest water body to; exceeding the 30 metre requirement and therefore the Code is not applicable to this application.

### **Conclusion**

This supporting documentation demonstrates that the proposal of 5 dwelling units supports and furthers the Planning Scheme aims and objectives, relevant Clauses and Schedules as set out for development within the General Residential Zone.

Where the proposal does not comply with the Acceptable Solution (AS) it has been demonstrated that the Performance Criteria (PC) are satisfied and there is not an unreasonable loss of amenity as a consequence of this proposal. Therefore Council are requested to exercise its Discretionary powers in relation to this development.

With the above in mind, a planning permit for a new 5 dwelling units at 5 Sandy Crescent, Wynyard is respectfully sought from the Planning Authority.



### **List of Annexure**

Annexure A – Title Documents

Annexure B – Proposal Plans



## RESULT OF SEARCH

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980



### SEARCH OF TORRENS TITLE

VOLUME	FOLIO
143309	46
EDITION	DATE OF ISSUE
4	06-Jun-2016

SEARCH DATE : 12-Dec-2016

SEARCH TIME : 10.06 AM

### DESCRIPTION OF LAND

Town of WYNYARD

Lot 46 on Sealed Plan 143309

Derivation : Part of Lot 4553, 48A-1R-0P Gtd. to J Loveridge

Prior CT 245783/1

### SCHEDULE 1

C786699 TRANSFER to ASHWIN JAYNESH NATHAN Registered

15-Jun-2007 at noon

### SCHEDULE 2

Reservations and conditions in the Crown Grant if any

SP143309 COVENANTS in Schedule of Easements

SP143309 FENCING COVENANT in Schedule of Easements

E50766 MORTGAGE to Westpac Banking Corporation Registered

06-Jun-2016 at 12.01 PM

### UNREGISTERED DEALINGS AND NOTATIONS

No unregistered dealings or other notations



# FOLIO PLAN

RECORDER OF TITLES

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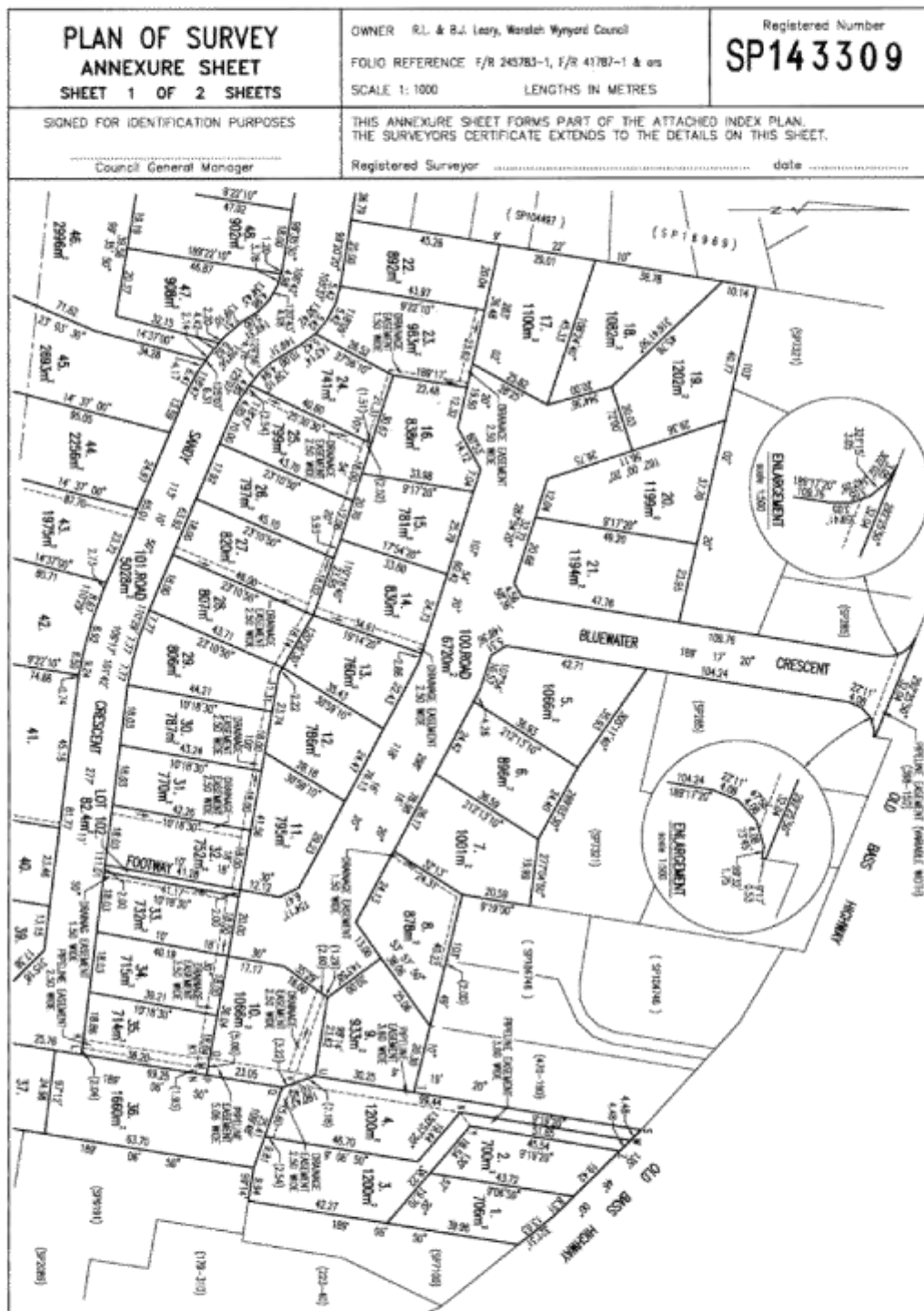




# FOLIO PLAN

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Volume Number: 143309

Revision Number: 01

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Department of Primary Industries, Parks, Water and Environment

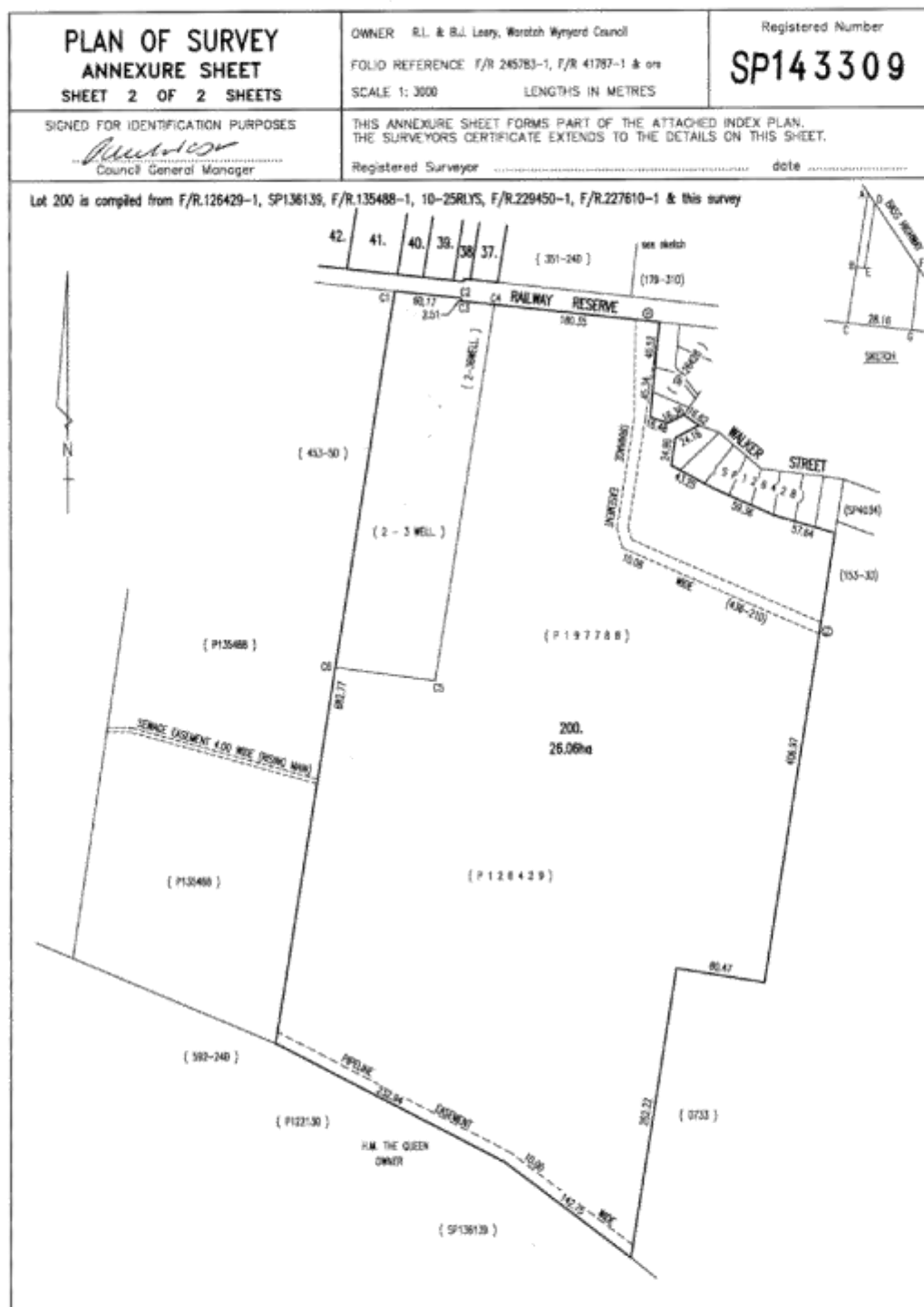
[www.thelist.tas.gov.au](http://www.thelist.tas.gov.au)



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# SCHEDULE OF EASEMENTS

RECORDER OF TITLES

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<p><b>SCHEDULE OF EASEMENTS</b></p> <p><b>NOTE:</b> THE SCHEDULE MUST BE SIGNED BY THE OWNERS &amp; MORTGAGEES OF THE LAND AFFECTED. SIGNATURES MUST BE ATTESTED.</p>	<p>Registered Number</p> <p><b>SP 143309</b></p>
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PAGE 1 OF 5 PAGE/S

## EASEMENTS AND PROFITS

Each lot on the plan is together with:-

- (1) 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
- (2) any easements or profits a prendre described hereunder.

Each lot on the plan is subject to:-

- (1) 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.

## EASEMENTS

1. Lot 3 is subject to a right of pipeline easement as defined below (appurtenant to the Waratah-Wynyard Council) over the strip of land marked "Pipeline Easement 3.60 Wide WXYZ" and shown on the Plan.
2. Lot 4 is subject to a right of pipeline easement as defined below (appurtenant to the Waratah-Wynyard Council) over the strip of land marked "Pipeline Easement 3.60 Wide STUVXW" and shown on the Plan.
3. Lot 10 is subject to a right of pipeline easement as defined below (appurtenant to the Waratah-Wynyard Council) over the strip of land marked "Pipeline Easement 5.06 Wide UOPQV" and shown on the Plan.
4. Lot 35 is subject to a right of pipeline easement as defined below (appurtenant to the Waratah-Wynyard Council) over the strip of land marked "Pipeline Easement 2.50 Wide OKIKLMNP" and shown on the Plan.
5. Lot 38 is subject to a right of pipeline easement as defined below (appurtenant to the Waratah-Wynyard Council) over the strip of land marked "Pipeline Easement 2.50 Wide A2A1A3I" and shown on the plan.
6. Lot 100 on the Plan is subject to an existing pipeline easement (appurtenant to Waratah-Wynyard Council) defined below as "Wynyard-Waratah Pipeline Easement" over the strip of land being variable width and shown on the Plan as "PIPELINE EASEMENT variable width (398/15D)".

(USE ANNEXURE PAGES FOR CONTINUATION)

<p>SUBDIVIDER: Russell Leon Leary and Belinda Jayne Leary (as trustees of the RL &amp; BJ Leary Pension Fund) AND WARATAH WYNYARD COUNCIL</p> <p>FOLIO REF: 245783/1, 41787/1, 139515/5, 227610/1, 229450/1 AND 126629/1</p> <p>SOLICITOR &amp; REFERENCE: Graeme James Nevin</p>	<p>PLAN SEALED BY: Waratah-Wynyard Council</p> <p>DATE: 15.2.20</p> <p>REF NO. 51587</p> <p>Council Delegate General Manager</p>
<p><b>NOTE:</b> The Council Delegate must sign the Certificate for the purposes of identification.</p>	



## SCHEDULE OF EASEMENTS

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980



<b>ANNEXURE TO SCHEDULE OF EASEMENTS</b> PAGE 2 OF 5 PAGES	Registered Number <b>SP 143309</b>
SUBDIVIDER: <del>WARATAH WYNYARD COUNCIL AND</del> Russell Leon Leary and Belinda Jayne Leary (as trustees of the RL & BJ Leary Pension Fund) FOLIO REFERENCE: 245783/1, 41787/1, 139515/5, 227610/1, 229450/1 AND 126429/1	

7. Lot 43 is subject to a right of drainage easement (appurtenant to Waratah Wynyard Council) over the strips of land marked "DRAINAGE EASEMENT 2.50 WIDE R1R2R3R4" and "DRAINAGE EASEMENT 4.50 WIDE R5R6R7R3" and shown on the plan.
8. Lot 101 is subject to an existing right of Drainage and Sewerage Easement (created by and more fully defined in SP 104497) over the strip of land being 4 metres wide and shown on the Plan as "Drainage and Sewerage Easement 4.00 Wide (SP 104497)" appurtenant to Lot 12 on SP 139515.
9. Part of Lot 200 on the Plan (formerly comprised in folio of the register Volume 126429 Folio 1) is:
  - (i) Together with an existing right of drainage easement and existing right of carriage way over the strip of land marked "DFGCBE" on plan ~~126429~~ and marked as "Sketch (179-31D)" on the Plan.
  - (ii) Together with an existing right of drainage easement over the strip of land marked "ABED" on Plan ~~126429~~ and marked as "sketch (179-31D)" on the Plan.
  - (iii) Together with an existing right of drainage easement (created by and more fully set in C285719) over the strip of land marked "SEWAGE EASEMENT 4.00 WIDE (RISING MAIN)" and shown on the Plan.
  - (iv) Subject to an existing pipeline easement (in the terms more fully set forth and created by A810570) appurtenant to the North West Regional Water Authority over the strip of land marked "Pipeline Easement 10.00 Wide" and shown on the plan.
  - (v) Subject to an existing right of drainage easement (appurtenant to the balance of the land in Folio of the Register Volume 952 Folio 74) over the strip of land 10.06 wide and variable width and shown on the Plan as "Drainage Easement 10.06 Wide (436-21D) and marked H J".

## COVENANTS

The Owner or Owners of each lot shown on the plan (other than lot 200) covenants with the Vendor RUSSELL LEON LEARY AND BELINDA JAYNE LEARY (AS TRUSTEES OF THE RL & BJ LEARY PENSION FUND) that the Owners for the time being of each and every lot shown on the plan to the intent that the burden of these covenants shall run with and bind the covenantor's lot and every part thereof and that the benefit thereof shall be annexed to and devolve with each and every part of every other lot shown on the plan to observe the following stipulations-

1. That in respect of each lot shown on the plan RUSSELL LEON LEARY AND BELINDA JAYNE LEARY (AS TRUSTEES OF THE RL & BJ LEARY PENSION FUND) shall not be required to fence.
2. Not to erect or permit to be erected or maintained on the lot any portable or easily removable, or transportable, residential or other buildings.

**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.





## SCHEDULE OF EASEMENTS

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980



<b>ANNEXURE TO SCHEDULE OF EASEMENTS</b> PAGE 3 OF 4 PAGES	Registered Number <b>SP143309</b>
SUBDIVIDER: <i>WARATAH, WYNYARD COUNCIL AND</i> Russell Leon Leary and Belinda Jayne Leary (as trustees of the RL & BJ Leary Pension Fund) FOLIO REFERENCE: 245783/1, 41787/1, 139515/5, 227610/1, 229450/1 AND 126429/1	

3. Not to affix or display on any wall or fence upon such Lot or any part thereof posters, bills, hoardings or advertisements (except any notice of advertisement in the usual form for the sale or letting of such Lot or any building erected thereon).
4. Not to erect or place upon the said lot or any part thereof any shop building or erection whatsoever for the purpose of selling or offering for sale therein or thereon any articles ware or merchandise whatsoever
5. Not to carry on or permit to be carried on any trade or business upon the lot.
6. Not to construct or maintain on any lot any building other than a single dwelling together with outbuildings usually appurtenant thereto containing not less than one hundred (100) square metres of living area. Save that this stipulation shall not apply if stratum units are approved by the Waratah-Wynyard Council to be constructed on any of the lots.
7. Not to erect or permit to be erected or maintained on the lot any dwelling south of the line AB on the Plan.

## INTERPRETATION

"Wynyard-Waratah Council Pipeline Easement" means a full free unrestricted right and liberty for the Wynyard-Waratah Council (herein called "the Council") and its agents servants and workmen from time to time and at all times hereafter at its will and pleasure by day and night to break the surface of dig open and use the strip of land marked "Pipeline Easement" on Diagram No. 81445 for the purpose of laying down fixing taking up repairing relaying or examining pipes and conveying water therein and of using and maintaining such pipes and for such purposes a full and free and unrestricted right and liberty of entry egress and regress from time to time and at all times hereafter for the Council and its agents servants and workmen with or without horses carts carriages or vehicles laden or unladen in through over across and along the said strip of land and to remove or cut back all trees stumps and tree roots growing on or projecting into the said strip of land and temporarily to remove any fences on the same provided however that all fences so affected shall be replaced and restored to their former state so soon as it is reasonably possible so to do.

"Right of Pipeline Easement" means a full free unrestricted right and liberty for the Waratah-Wynyard Council (herein called "the Council") and its servants, agents and workmen from time to time and at all times hereafter to break the surface of dig open and use the strip of land marked "Pipeline Easement" for the purpose of laying down fixing taking up repairing cleansing amending relaying or examining pipes to carry water stormwater sewage and other surplus water and of using and maintaining such pipes and for such purposes a full and free and unrestricted right and liberty of entry egress and regress from time to time and at all times hereafter for the Council its agents servants and workmen with or without machinery in through over across and along the said strip of land and to remove or cut back all trees stumps and tree roots growing on or projecting into the said strip of land and temporarily to remove any fences on the same provided however that all fences so affected shall be replaced and restored to their former state so soon as it is reasonably possible so to do and without doing unnecessary damage.

**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.



# SCHEDULE OF EASEMENTS

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980



<b>ANNEXURE TO SCHEDULE OF EASEMENTS</b> PAGE 4 OF 4 PAGES	Registered Number <b>SP 143309</b>
SUBDIVIDER: Russell Leon Leary and Belinda Jayne Leary (as trustees of the RL & BJ Leary Pension Fund) FOLIO REFERENCE: 245783/1, 41787/1, 139515/5, 227610/1, 229450/1 AND 126629/1	

Executed by RUSSELL LEON LEARY )

(as trustee of the RL & BJ Leary Pension )

Fund) in the presence of: )

*Erin Northey*  
*Erin Northey*  
*25 Metakona Drive Palm Beach 4221*  
*Erin*

Executed by BELINDA JAYNE LEARY )

(as trustee of the RL & BJ Leary Pension )

Fund) in the presence of: )

*Erin Northey*  
*Erin Northey*  
*25 Metakona Drive Palm Beach*  
*Erin*

**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.

**SCHEDULE OF EASEMENTS**

RECORDER OF TITLES

Issued Pursuant to the Land Titles Act 1980



<b>ANNEXURE TO SCHEDULE OF EASEMENTS</b>  <b>PAGE 5 OF 5 PAGES</b>		<b>Registered Number</b>  <b>SP 143309</b>
<b>SUBDIVIDER: -</b> RUSSELL LEON LEARY and BELINDA JAYNE LEARY and WARATAH-WYNYARD COUNCIL,		
<b>FOLIO REFERENCE: -</b> 245783/1, 41787/1, 139515/5, 227610/1, 229450/1 and 126429/1		
<b>EASEMENTS (continued)</b>  Lot 8 on the plan is subject to a right of drainage (appurtenant to Waratah Wynyard Council) over the Drainage Easement 1.50 wide shown passing through such Lot.  Lot 41 on the plan is subject to a right of drainage (appurtenant to Waratah Wynyard Council) over the Drainage Easements 1.50 wide and 2.00 wide respectively shown passing through such Lot.		
<b>NOTE: -</b> Every annexed sheet 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.		

To whom it may concern,

13<sup>th</sup> April 2017

I, Russell Leary, wish to release the covenant placed on the land located at No.5 Sandy Crescent Wynyard Tasmania 7325, which restricts the building setback to 50metres from the back boundary.

This land was sold and the current owner is impeded, by this covenant.

If you have any concerns regarding this matter, please contact me.

Yours Sincerely,

A photograph of a handwritten signature in dark ink on a light-colored piece of paper. The signature is stylized, with a large 'R' and 'L'.

Russell Leary

M: 04488955

E: [russell@starresorts.com.au](mailto:russell@starresorts.com.au)

7 Roberts Street,  
Noosaville QLD 4567

## Waratah-Wynyard Council

Enquiries: Oliver Mayer  
Phone: (03) 6443 8345  
Our Ref: PID 2603235

9 June 2017

Melissa Dent

Email: [admin@envioplanaustralia.com.au](mailto:admin@envioplanaustralia.com.au)

Dear Melissa

**RE: ROAD ACCESS AND STORMWATER DRAINAGE ASSESSMENT – 5 SANDY CRESCENT WYNYARD**

I refer to your application seeking Road Access and Stormwater approval for a proposed development at the above address.

An assessment of your application has been completed and approved, please find enclosed Road and Stormwater/Drainage Authority advice should you intend continuing to the development stage.

It must be noted:

- That this approval does not constitute a permit to commence works, rather, it simply advises of works required if you wish to proceed.
- All conditions in the Road and Stormwater/Drainage Authority advice are to be completed prior to signing Final Plans.
- At least (7) days prior to any works taking place within the Public Road Reserve the enclosed "Activity in Road Reserve" application form is to be completed and returned to Council for approval.
- All works within the Public Road Reserve must be performed in accordance with Activity in Road Reserve Permit's Standard Conditions at the time works are taken out.

Enclosed is a copy "Activity in Road Reserve" application and relevant Tasmanian Standard Drawings.

If you have any questions or queries, please contact Council's Engineering Department on (03) 6443 8345.

Yours sincerely



Oliver Mayer  
**TECHNICAL OFFICER**  
Encl.



21 Saunders Street, Wynyard, 7325 - PO Box 168 - DX 70479  
email: [council@warwyn.tas.gov.au](mailto:council@warwyn.tas.gov.au) - internet: [www.warwyn.tas.gov.au](http://www.warwyn.tas.gov.au)  
phone: 03 6443 8333 - fax: 03 6443 8383



### Stormwater Assessment

#### **Stormwater / Drainage Authority Requirements and Conditions**

**Location:** 5 Sandy Crescent Wynyard

**Development Description:** Multi-Unit Development within 30m of Council's reticulated stormwater system.

**Condition 1**

Stormwater is to be connected into Council's stormwater reticulated network in accordance with TSD – SW25-v1 Storm water Property Connection to Mains.

**Condition 2**

The stormwater connection point is to be inspected and approved by the Director Infrastructure & Development Services before backfilling.

**Condition 3**

Typical stormwater drainage design return intervals for:

- Property drainage is 1 in 10 year ARI,

**Note:** An "Activity in Road Reservation" Permit must be obtained from Council for all activity/work within the Road Reservation including the driveway construction.

All work is to be done to the satisfaction of the Director Infrastructure and Development Services.

Assessing Officer: OLIVER MAYER

Signature: 

Position: TECHNICAL OFFICER

Date: 9/6/17



## **Road Access Assessment**

### **Road Authority Requirements and Conditions**

**Location:** 5 Sandy Crescent Wynyard

**Development Description:** Multi-Unit development assess existing Road access point/driveway

#### **Condition 1**

Upgrade existing concrete driveway slab to 6m wide between the rollover kerb and the property boundary in accordance with Tasmanian Standard Drawing TSD-R09-v1, Urban Roads Driveways and the conditions in a "Activity in Road Reservation Permit".

#### **Condition 2**

The developer is to remove and maintain vegetation plantings back to the property boundary line, to provide safe minimal sight lines for vehicles entering and exiting the development.

**Note:** An "Activity in Road Reservation" Permit must be obtained from Council for all activity/work within the Road Reservation including the driveway construction.

Any damage to the road pavement or nature strip in carrying out the driveway construction is to be repaired and reinstated by the developer.

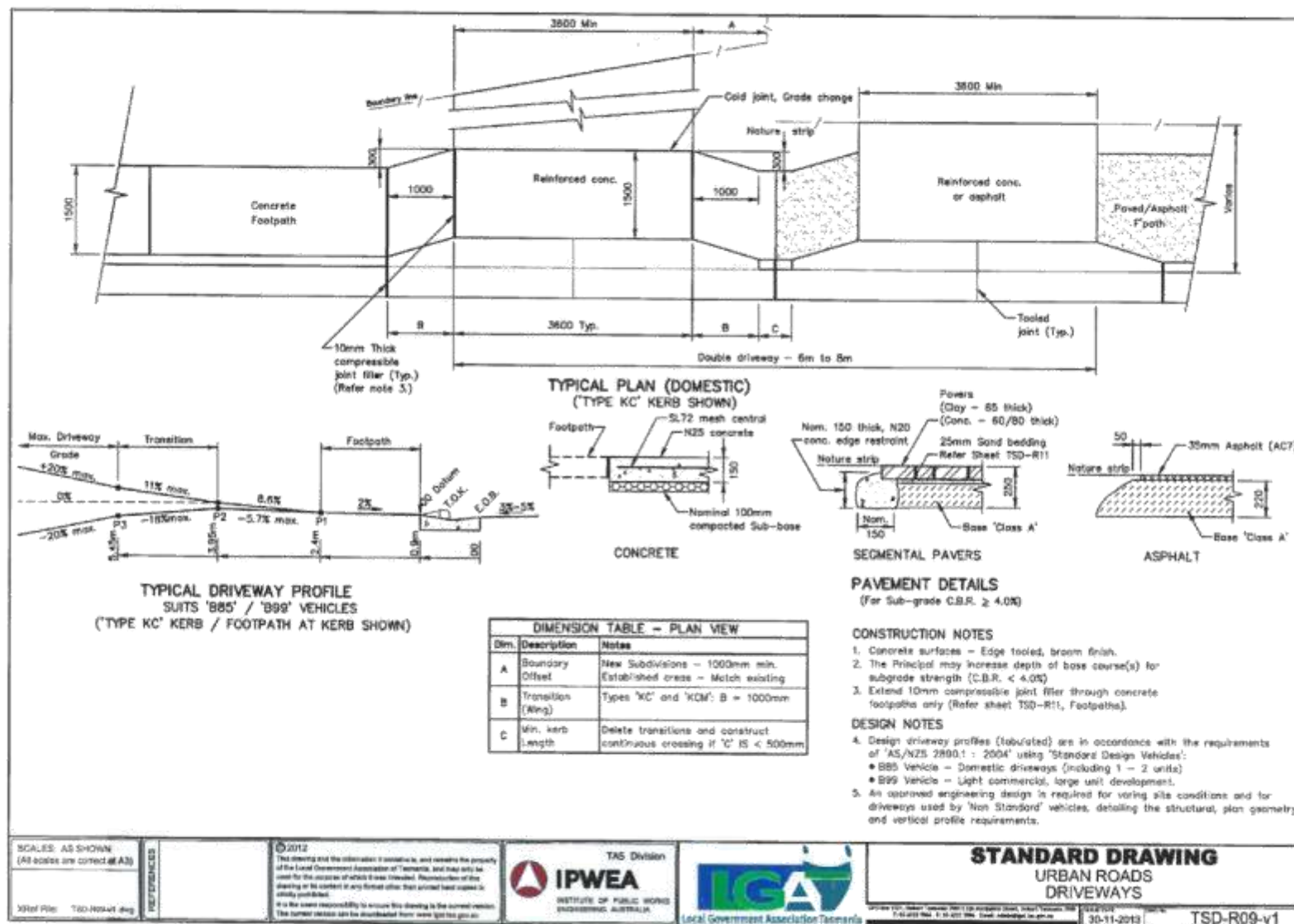
All work is to be done to the satisfaction of the Director Infrastructure and Development Services.

Assessing Officer: OLIVER MAYER

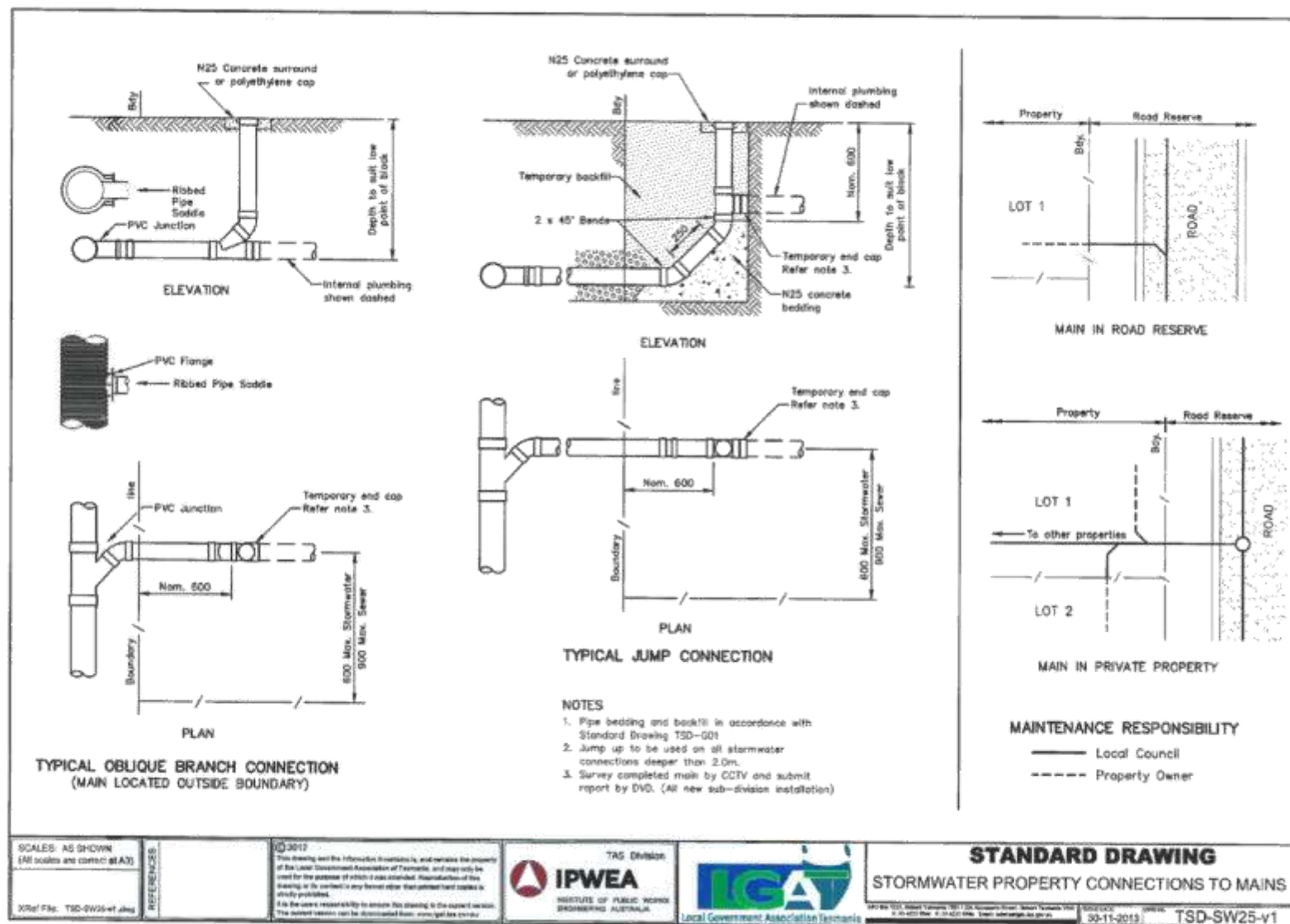
Signature: 

Position: TECHNICAL OFFICER

Date: 9/6/17

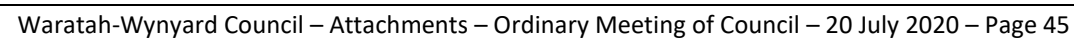


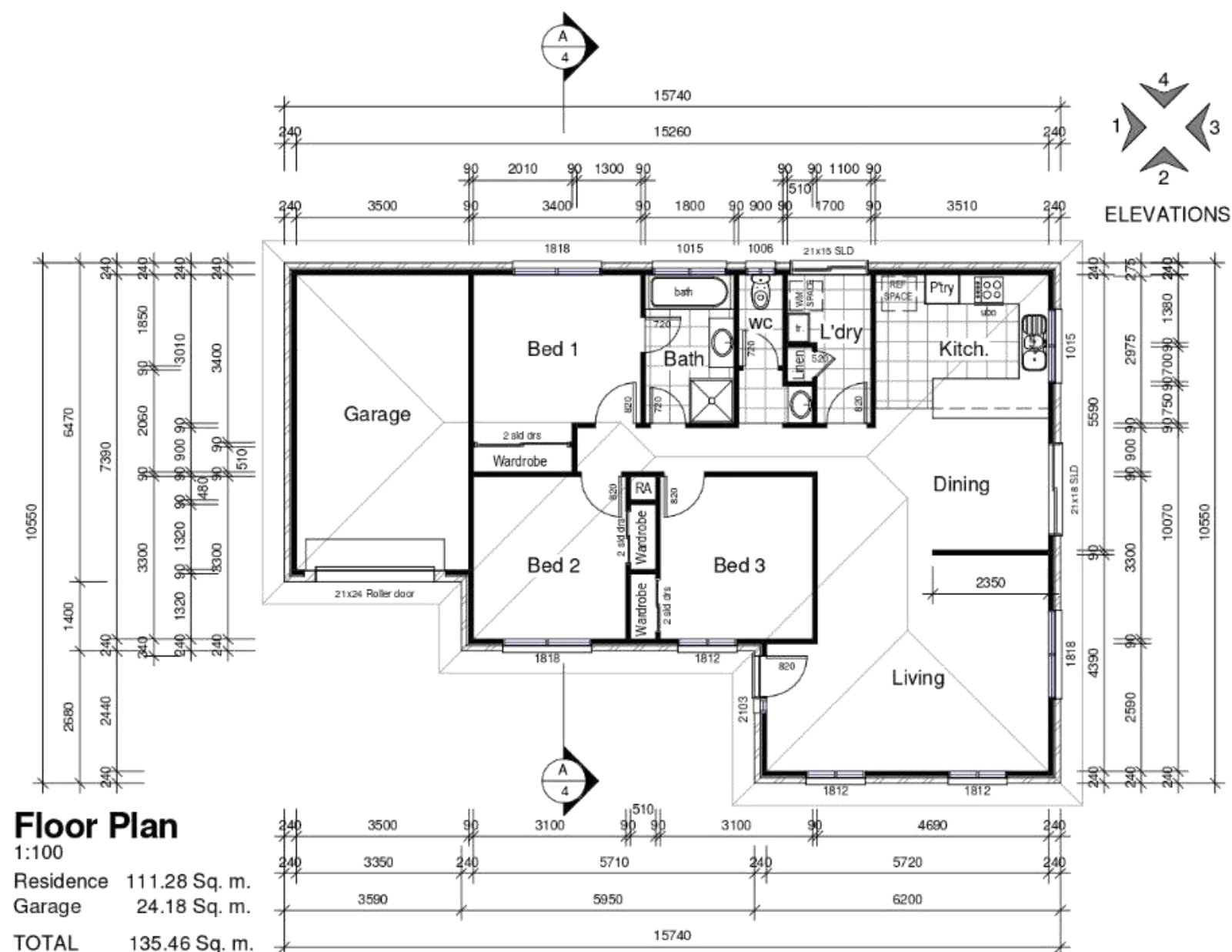




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**PRELIMINARY PLAN, NOT FOR  
CONSTRUCTION**



2

BUILDER:

Hotondo Homes North West P/L  
PO BOX 522, Somerset, TAS  
7322

DATE:

SALES PERSON:

CONTRACTOR MUST VERIFY ALL DIMENSIONS  
AND LEVELS AT THE JOB PRIOR TO COMMENCING  
ANY WORK OR MAKING ANY SHOP DRAWINGS.  
DO NOT SCALE DRAWINGS.  
ALWAYS USE WRITTEN DIMENSIONS.

DATE:

SIGNATURE 1:

SIGNATURE 2:

REVISION:

DESCRIPTION:

INITIAL:

DATE:

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HOTONDO HOMES PTY. LTD IT CANNOT BE COPIED, ALTERED OR  
REPRODUCED IN ANY FORM WITHOUT WRITTEN APPROVAL



JOB ADDRESS:

lot 46, s.p. 143309, no. 5 sandy  
crescent, wynyard.

DRAWN: Sal Campagna

26/07/2017 12:37:33 PM

SCALE: 1 : 100

SHEET: 2

REV:

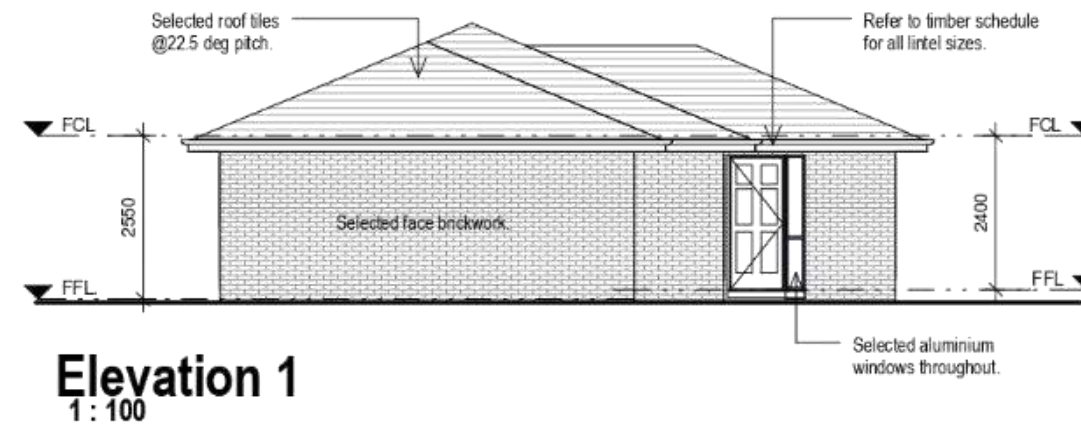
CLIENT:

ASHWIN NATHAN

DESIGN TYPE: York 135

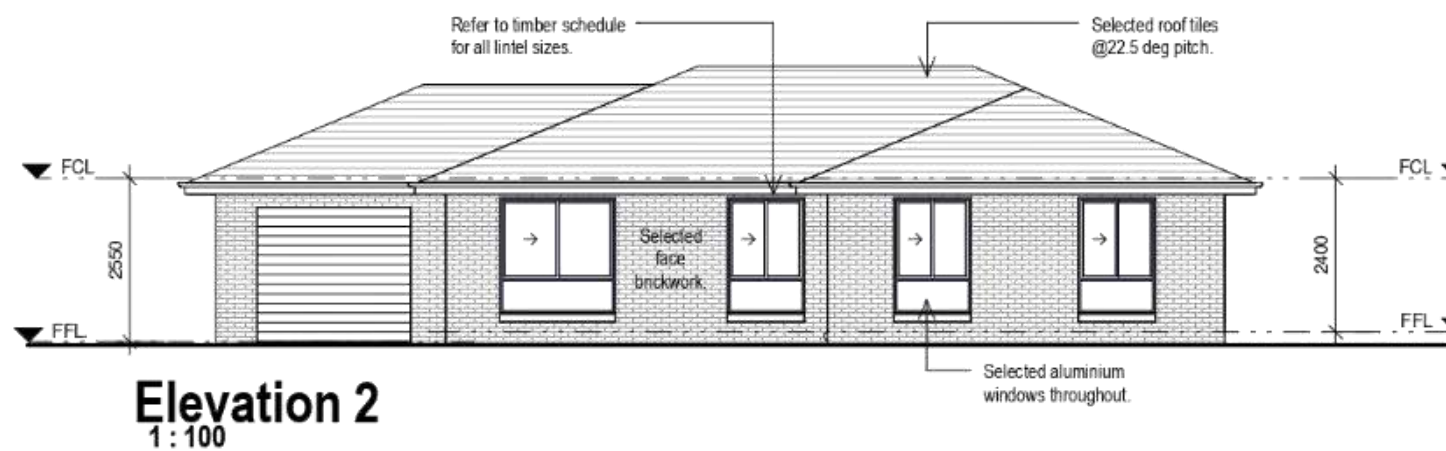
DRAWING No:





PROVIDE STRUCTURAL PLYWOOD BRACING IN ACCORDANCE WITH AS 1684 AND IN SECTION 9.4 OF TIMBER FRAMING MANUAL.

VERTICAL CONSTRUCTION JOINTS TO BE CONSTRUCTED IN ACCORDANCE WITH BCA VOLUME 2 CL 3.3.1.8.



**PRELIMINARY PLAN, NOT FOR  
CONSTRUCTION**



**3**

BUILDER:  
Hotondo Homes North West P/L  
PO BOX 522, Somerset, TAS  
7322

DATE: \_\_\_\_\_

SALES PERSON: \_\_\_\_\_

CONTRACTOR MUST VERIFY ALL DIMENSIONS  
AND LEVELS AT THE JOB PRIOR TO COMMENCING  
ANY WORK OR MAKING ANY SHOP DRAWINGS.  
DO NOT SCALE DRAWINGS.  
ALWAYS USE WRITTEN DIMENSIONS.

DATE: \_\_\_\_\_

SIGNATURE 1: \_\_\_\_\_

SIGNATURE 2: \_\_\_\_\_

REVISION	DESCRIPTION	INITIAL	DATE

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JOB ADDRESS:

lot 46, s.p. 143309, no. 5 sandy  
crescent, wynyard.

DRAWN: Sal Campagna

26/07/2017 12:37:33 PM

SCALE: 1 : 100

SHEET: 3

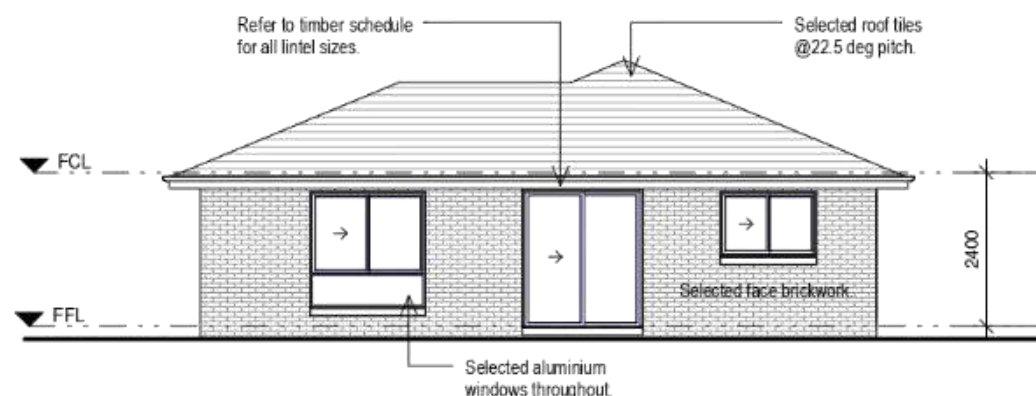
REV: \_\_\_\_\_

CLIENT:

ASHWIN NATHAN

DESIGN TYPE: York 135

DRAWING No: \_\_\_\_\_



**Elevation 3**  
1 : 100

PROVIDE STRUCTURAL PLYWOOD BRACING IN ACCORDANCE WITH AS 1684 AND IN SECTION 9.4 OF TIMBER FRAMING MANUAL.

VERTICAL CONSTRUCTION JOINTS TO BE CONSTRUCTED IN ACCORDANCE WITH BCA VOLUME 2 CL 3.3.1.8.



**Elevation 4**  
1 : 100

**PRELIMINARY PLAN, NOT FOR  
CONSTRUCTION**



**3a**

BUILDER:  
Hotondo Homes North West P/L  
PO BOX 522, Somerset, TAS  
7322

DATE: \_\_\_\_\_  
SALES PERSON: \_\_\_\_\_

CONTRACTOR MUST VERIFY ALL DIMENSIONS  
AND LEVELS AT THE JOB PRIOR TO COMMENCING  
ANY WORK OR MAKING ANY SHOP DRAWINGS.  
DO NOT SCALE DRAWINGS.  
ALWAYS USE WRITTEN DIMENSIONS.

DATE: \_\_\_\_\_  
SIGNATURE 1: \_\_\_\_\_  
SIGNATURE 2: \_\_\_\_\_

REVISION	DESCRIPTION	INITIAL	DATE

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REPRODUCED IN ANY FORM WITHOUT WRITTEN APPROVAL.



JOB ADDRESS:  
lot 46, s.p. 143309, no. 5 sandy  
crescent, wynyard.

DRAWN: Sal Campagna

26/07/2017 12:37:33 PM

SCALE: 1 : 100

SHEET: 3a

REV: \_\_\_\_\_

CLIENT:  
ASHWIN NATHAN

DESIGN TYPE: York 135

DRAWING No: \_\_\_\_\_



5 May 2020

Enquiries: Development & Regulatory Services  
Phone: (03) 6443 8333 option 1  
Our Ref: 2603235 & DA 41/2020

Attn: Mrs A Jones obo  
Hotondo Homes North West  
admin@hotondonw.com.au

Dear Alex,

**ADDITIONAL INFORMATION REQUIRED**  
**DEVELOPMENT APPLICATION – Multiple Dwelling (5 Units, Strata)**  
**5 Sandy Crescent WYNYARD**

I advise that under *Section 54* of the *Land Use Planning and Approvals Act 1993* Council seeks further information in relation to application DA 41/2020 for a Multiple Dwelling (5 Units, Strata) at 5 Sandy Crescent WYNYARD. To progress the assessment of your application, please provide the following: -

- Demonstration of compliance with clause 10.4.3 A2 or P2 Site coverage and private open space for all dwellings of the *Waratah-Wynyard Interim Planning Scheme 2013*. It appears Unit 5 private open space is south facing and unable to be accessed directly from a habitable room, therefore requiring assessment against the performance criteria. Further to this Unit 1, 2, 3, 4 and 5 do not appear to have access directly from a habitable room to their private open space. As windows appear to be provided on these elevations, not doors.
- Elevations for each dwelling, or if units 1-4 remain the same, please provide elevations and floor plan for proposed unit 5. This unit appears to be a mirror image. However, this may also assist with a response to clause 10.4.3 A2/P2.
- Demonstration of compliance with clause 10.4.4 A1/P1 Sunlight and overshadowing for all dwellings of the *Waratah-Wynyard Interim Planning Scheme 2013*. It is unclear if proposed unit 5 has a window to a habitable room within 30 degrees east or west of north.
- Please provide further particulars to clause E9.5.1 P1 of the *Waratah-Wynyard Interim Planning Scheme 2013*. It appears the site may be able to meet the acceptable solution.

Your application has been placed on hold until all relevant documentation has been received to the satisfaction of the Planning Authority.

If you have any queries or require further information, please do not hesitate to contact Council's Town Planners on (03) 6443 8308.

**Waratah Wynyard Council**

21 Saunders Street (PO Box 168) Wynyard Tasmania 7325

P: (03) 6443 8333 | [www.warwyn.tas.gov.au](http://www.warwyn.tas.gov.au) | E: [council@warwyn.tas.gov.au](mailto:council@warwyn.tas.gov.au)

Yours faithfully



Daniel Summers

**DIRECTOR DEVELOPMENT & REGULATORY SERVICES**

**Waratah Wynyard Council**

21 Saunders Street (PO Box 168) Wynyard Tasmania 7325

P: (03) 6443 8333 | F: (03) 6443 8383 | E: [council@warwyn.tas.gov.au](mailto:council@warwyn.tas.gov.au)



Please quote our ref: 220032 PID  
Your ref:  
Enquiries to: Micheal Wells  
6411 1931



25 May 2020

Council  
Planning Department  
via Email

Dear Sir/Madam

**ADDITIONAL INFORMATION REQUEST RESPONSE – DA 41/2020 – 5 SANDY CRESCENT, WYNYARD**

Thank you for your additional information request for the above development. In response to your request please find the following:

- Demonstration of compliance with clause 10.4.3 A2 or P2 Site coverage and private open space for all dwellings of the *Waratah-Wynyard Interim Planning Scheme 2013*. It appears Unit 5 private open space is south facing and unable to be accessed directly from a habitable room, therefore requiring assessment against the performance criteria. Further to this Unit 1, 2, 3, 4 and 5 do not appear to have access directly from a habitable room to their private open space. As windows appear to be provided on these elevations, not doors.

The application has already addressed P2 as per the screen grab below.

Unit 4	175.37
Unit 5	176.81

The proposal provides each dwelling with POS that is in one location and each exceeds 24m<sup>2</sup>. Each POS space has a horizontal dimension exceeding 4m and is accessed directly off the living room to each dwelling (see submission plans).

Unit 5 of the plan has a small window adjacent to the door off the living area which is orientated to the north. Additional windows are located on the western façade of the building with access to the POS from the south (dining room) and east through the laundry sliding door. This POS extends to the north adjacent to the visitors car parking space. The POS area predominantly takes advantage of the western exposure however the POS also extends to the east of the dwelling and receives sunlight from the early morning.

Each POS are located on the northern aspect as per the site plans. The site is flat and the areas are not used for parking as per the submission plans.

**10.4.4 Sunlight and overshadowing for all dwellings**

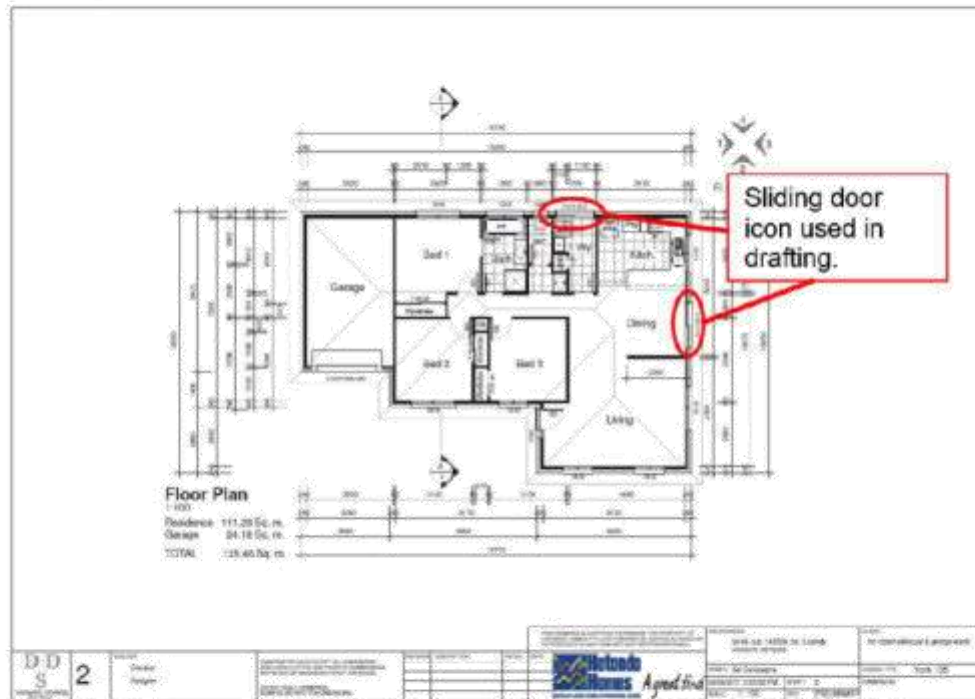
**Objective:**

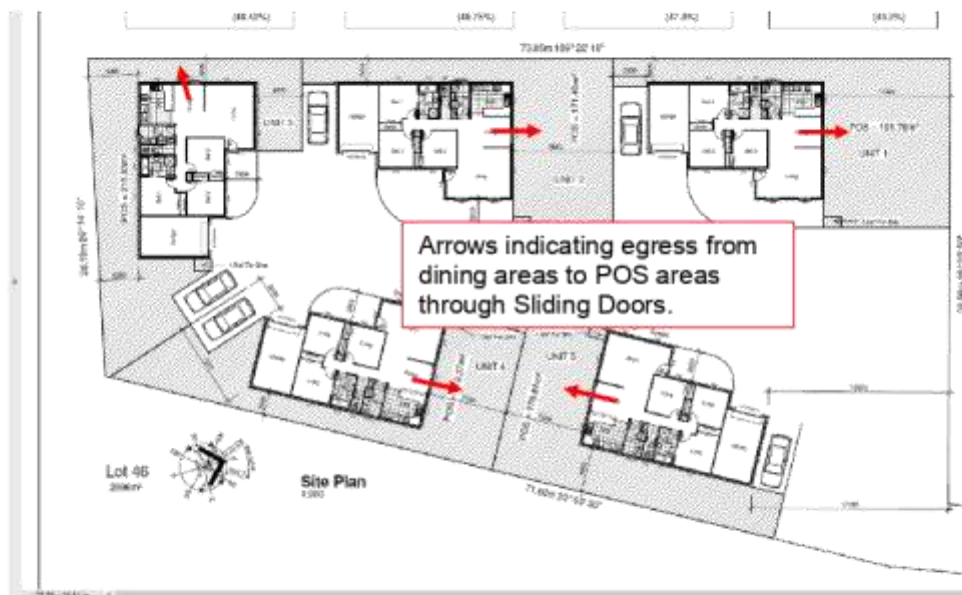
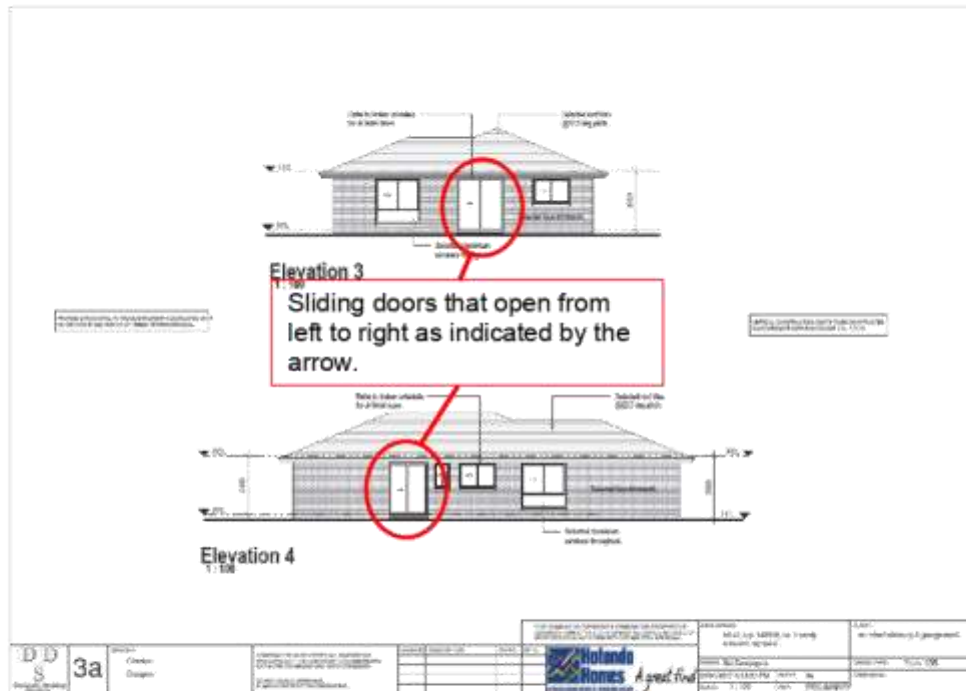
To provide:

(a) the opportunity for sunlight to enter habitable rooms (other than bedrooms) of dwellings; and

EnviroPlan Australia  
ABN: 28 650 042 436  
71a Bass Highway, Somerset TAS 7322 – PO Box 546 Somerset, TAS 7322  
Email: admin@enviroplanaustralia.com.au  
Page 1 of 8

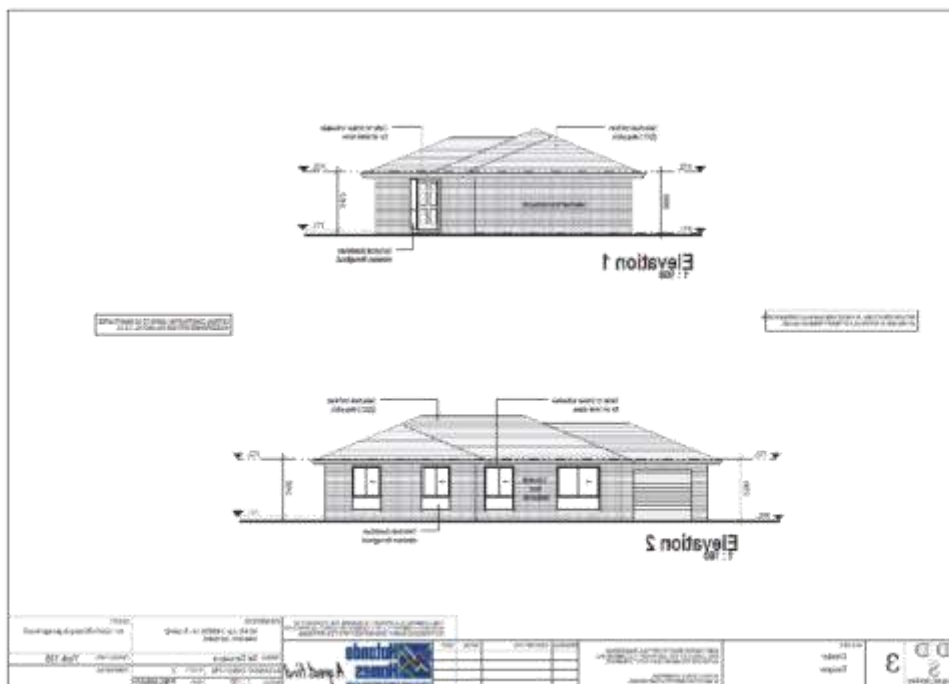
In relation to "windows" being used on the elevations and POS areas please find the following:

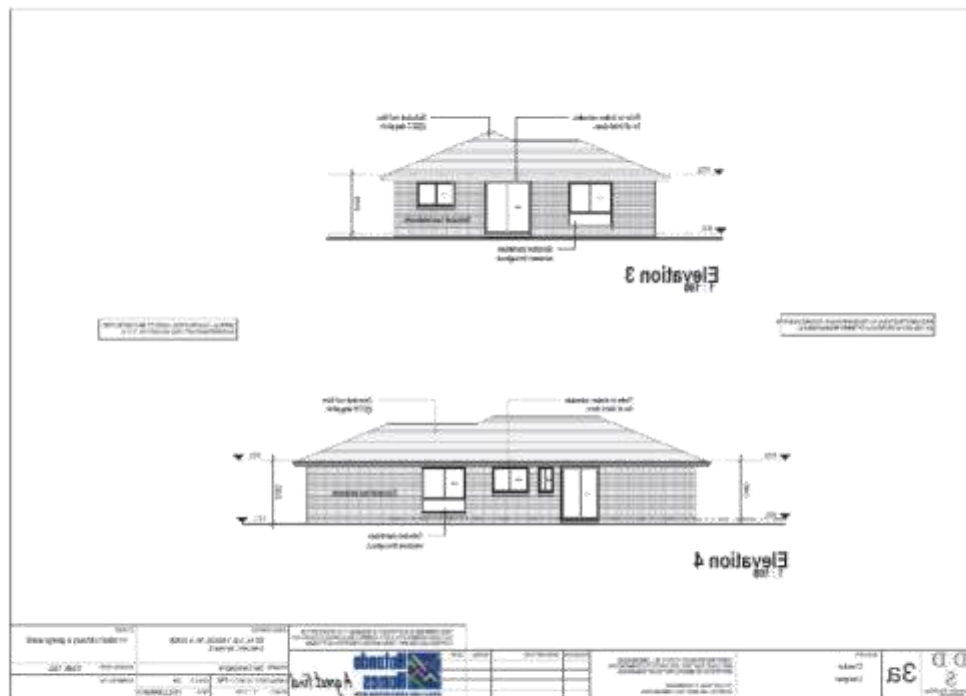




- Elevations for each dwelling, or if units 1-4 remain the same, please provide elevations and floor plan for proposed unit 5. This unit appears to be a mirror image. However, this may also assist with a response to clause 10.4.3 A2/P2.

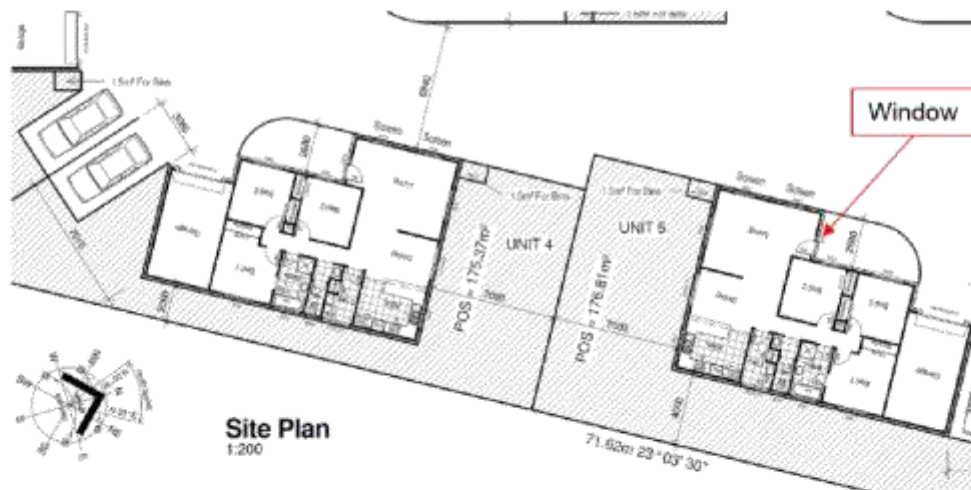
Unit 5 is not mirrored. It is swivelled. However Unit 4 is a mirror image to obtain the most solar access possible to living area. Unit 5 is position so as to preserve amenity from vehicular traffic and places the garage between the traffic flow and the residential use. However please find the following mirror images for unit 4 assuming this is what you were referring to.



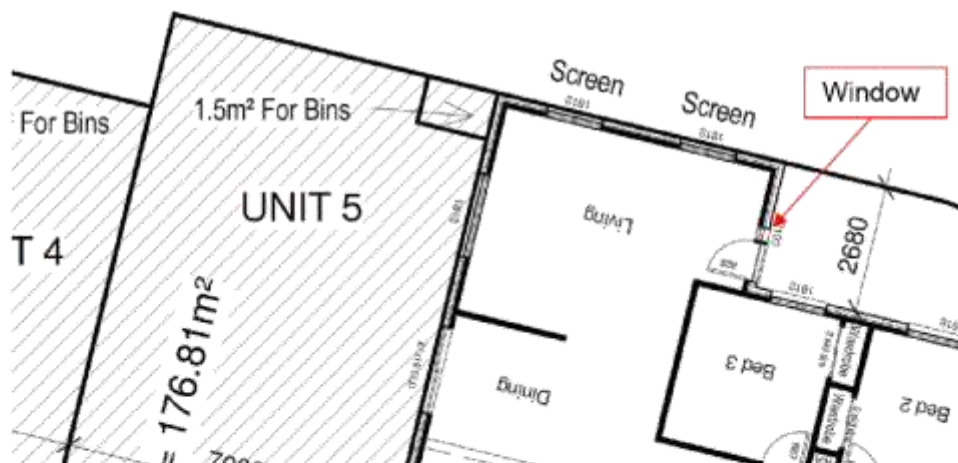


- Demonstration of compliance with clause 10.4.4 A1/P1 Sunlight and overshadowing for all dwellings of the *Waratah-Wynyard Interim Planning Scheme 2013*. It is unclear if proposed unit 5 has a window to a habitable room within 30 degrees east or west of north.

There is no requirement of window sizes within 10.4.4 A1 or P1. As such please find the following which was submitted in the original submission:



Enlargement of submitted plans (exactly the same angle):





There is further evidenced within the submitted text under the clause 10.4.4 (A1) – please see the following screen grab:

*(b) separation between dwellings on the same side to provide reasonable opportunity for daylight and sunlight to enter habitable rooms and private open space.*

**Acceptable Solutions A1**

*A dwelling must have at least one habitable room (other than a bedroom) in which there is a window that faces between 30 degrees west of north and 30 degrees east of north (see Diagram 10.4.4A).*

**Discussion**

Each dwelling unit enables sunlight to penetrate into the living room area via the northern access window as shown on the submission plans.

Unit 5 of the plans does contain a window that is adjacent to the entry door off the living room. Whilst this is a small window – the provision does not specify window sizes. Further, this window sits exactly on the N30°E line as shown in the site plan drawings, sheet 1 - "York 135" as well as Elevation 1 on sheet 3 of the submission plans.

Whilst the windows on the western elevation of unit 5 notate screening; sunlight penetration is still possible through the top portion of the screen. The planning scheme requires screening form the road to 1.7m in height and the proposal provides 1.82m high windows.

**Acceptable Solutions A2**

*A multiple dwelling that is to the north of a window of a habitable room (other than a bedroom) of another dwelling on the same site, which window faces between 30 degrees west of north and 30 degrees east of north (see Diagram 10.4.4A).*

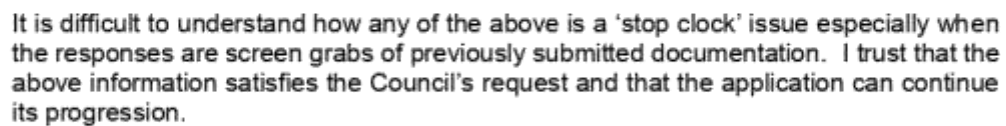
- Please provide further particulars to clause E9.5.1 P1 of the *Waratah-Wynyard Interim Planning Scheme 2013*. It appears the site may be able to meet the acceptable solution.

**Acceptable Solution – A1**

*Provision for parking must be –*

- a) *the minimum number of on-site vehicle parking spaces must be in accordance with the applicable standard for the use class as shown in the Table to this Code;*

2 per dwelling and 2 visitor spaces (internal lot) to the north as demonstrated below.





**Enclosure 2 Representation**

---

**Rebecca Plapp**

---

**From:** Drew Redpath <drewredpath37@hotmail.com>  
**Sent:** Sunday, 28 June 2020 9:16 PM  
**To:** Council  
**Subject:** Representation: DA 41/2020 5 Sandy Crescent Wynyard

Drew & Georgia Redpath

7 Sandy Crescent Wynyard, 7325

0418 894 648

To General Manager (Waratah-Wynyard Council),

**Objection/ Representation to Application for planning permit at 5 Sandy Crescent WYNYARD. DA 41/2020**

Multiple dwellings (x5)

I write in connection with the above planning application. I have reviewed the documentation and I own an adjoining property. I wish to object to the development of the 5 units at this location due to the below points.

**Stormwater inadequacy**

The application put in some time ago for a similar plan on the same block stated that storm water was at capacity, can you please advise what has changed? I would like to ensure that no additional run off from the block, caused by additional infrastructure makes its way on to my property, or that this many additional dwellings is likely to cause stormwater build up in excess of that which occurs now.

Placing 5x bedroom units will significantly add to this issue. The land and drainage at Sandy crescent is already water dense and covering so much of the vacant land in units will add to the drainage issues in the area. Run off on to adjoining blocks will make already wet adjoining properties worse.

**Traffic Congestion**

Traffic Congestion – from viewing of plans for 5x3 bedroom dwellings, I am concerned on the grounds that this is an internal block with not street frontage. The plans have provisions for 2 parking spaces, for which will address the

**Enclosure 2 Representation**

---

parking for most unit residents however, will not address provisions for any visitors. The internal blocks driveway is situated on a bend in sandy crescent and I believe the traffic congestion likely to be caused by having this much housing on an internal block is likely to cause traffic congestion and obstructed view for residence in the area.

**Loss of property Value/ Out of Character**

Five x 3 bedroom units adds the realistic potential for an additional 30 people to be living in the space next to my property, this will significantly reduce the value of my property, due to noise and congestion and loss of outlook from entertaining and dining areas. People purchase and pay, at the moment, for large blocks and space. Having 30 neighbours on one side of the fence will immediately mean our property loses this appeal. One of these properties is proposed to be only set back 2m from our fence line which I believe will allow for overshadowing and loss of privacy to our back yard.

Out of character – all blocks on this side of the road were enforced to build 50m from the railway, which meant other residence were unable to place multiple dwelling on their lots. This is a quiet street with wide open spaces, due to the restrictions that were originally put in place. Proposals must respect and reflect the neighbourhood character and the proposed planning density of property does not reflect that.

**Loss of vegetation**

The area of sandy crescent is a water dense area with poor soil drainage. The density of which 5 x 3 bedroom dwellings will have on the current rainwater drainage of the area is likely to have a far bigger environmental impact than the building of a single residence like all other blocks in the area would have.

**Noise Levels**

Increase in noise – the traffic that 3x5 bedroom units will cause up and down the internal driveway running past my house will have a significant noise impact on my property and other adjoining properties. The amount of traffic 1 residence can have vs the amount of traffic and noise 5 “house” can have is significant and is likely to cause significant loss of amenity.

In closing this development has significant impact on adjoining residents and the entire street. This is going to increase the level of noise and potential for complaints to council from a currently quiet and happy neighbourhood. The potential for at least an additional 30 residents in a quiet family cul-de-sac significantly changes the charm of the area.

Kind Regards

Drew Redpath

## Agreement for Extension of Time

In accordance with Section 57 (6) of the *Land Use Planning and Approvals Act 1993* I

Hotondo Homes North West

of

admin@hotondonw.com.au

hereby grant the Planning Authority an extension of time until the 27th day of July 2020,

Ref. No. 2603235 & DA 41/2020

Signed



(Applicant)

(Applicant)

06.07.20

(Date)

Signed



ASHLEY THORNTON, *per Council delegation*

(Manager Development & Regulatory Services)

06.07.2020

(Date)



## Submission to Planning Authority Notice

Council Planning Permit No.	DA 41/2020	Council notice date	24/04/2020
<b>TasWater details</b>			
TasWater Reference No.	TWDA 2020/00529-WWC	Date of response	28/04/2020
TasWater Contact	David Boyle	Phone No.	6345 6323
<b>Response issued to</b>			
Council name	WARATAH WYNYARD COUNCIL		
Contact details	council@warwyn.tas.gov.au		
<b>Development details</b>			
Address	5 SANDY CT, WYNYARD	Property ID (PID)	2603235
Description of development	Multiple dwellings		
<b>Schedule of drawings/documents</b>			
Prepared by	Drawing/document No.	Revision No.	Date of Issue
Hotondo Homes North West P/L	Site Plan / Sh. A2		26/04/2017
<b>Conditions</b>			
Pursuant to the <i>Water and Sewerage Industry Act 2008</i> (TAS) Section 56P(1) TasWater imposes the following conditions on the permit for this application:			
<b>CONNECTIONS, METERING &amp; BACKFLOW</b>			
<ol style="list-style-type: none"> <li>1. A suitably sized water supply with metered connection / sewerage system and connection for this multiple unit development must be designed and constructed to TasWater's satisfaction and be in accordance with any other conditions in this permit.</li> <li>2. Any removal/supply and installation of water meters and/or the removal of redundant and/or installation of new and modified property service connections must be carried out by TasWater at the developer's cost.</li> <li>3. Prior to commencing construction of the development, any water connection utilised for construction must have a backflow prevention device and water meter installed, to the satisfaction of TasWater.</li> </ol>			
<b>DEVELOPMENT ASSESSMENT FEES</b>			
<ol style="list-style-type: none"> <li>4. The applicant or landowner as the case may be, must pay a development assessment fee \$351.28 to TasWater, as approved by the Economic Regulator and the fees will be indexed, until the date paid to TasWater. The payment is required by the due date as noted on the statement when issued by TasWater.</li> </ol>			
<b>Advice</b>			
<b>General</b>			
For information on TasWater development standards, please visit <a href="https://www.taswater.com.au/Development/Technical-Standards">https://www.taswater.com.au/Development/Technical-Standards</a>			
For application forms please visit <a href="http://www.taswater.com.au/Development/Forms">http://www.taswater.com.au/Development/Forms</a>			

**Enclosure 4 TasWater Conditions**

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**Declaration**

The drawings/documents and conditions stated above constitute TasWater's Submission to Planning Authority Notice.

**Authorised by**

A handwritten signature in black ink, appearing to read "J Taylor".

**Jason Taylor**

Development Assessment Manager

**TasWater Contact Details**

Email	development@taswater.com.au	Web	www.taswater.com.au
Mail	GPO Box 1393 Hobart TAS 7001		

## **Rebecca Plapp**

---

**Subject:** FW: 5 Sandy Crescent, Wynyard  
**Attachments:** Oct 2019 TasRail Std Notes - Non-Op Lines.docx

---

**From:** Jennifer Jarvis <Jennifer.Jarvis@tasrail.com.au>  
**Sent:** Thursday, 9 July 2020 9:48 AM  
**To:** Rebecca Plapp <rplapp@warwyn.tas.gov.au>  
**Cc:** Allison Alexander <Allison.Alexander@tasrail.com.au>  
**Subject:** RE: 5 Sandy Crescent, Wynyard

Hi Rebecca,

As discussed, the 3.5m setback from the rail boundary is less than ideal, but if a condition could be included in the permit to the effect that a robust fence be installed on the shared boundary with the rail corridor than TasRail will not object. We generally recommend colorbond for the fencing material because it is longer lasting than timber and cannot be easily climbed or cut.

Given the developer appears to be of the view that the railway is defunct and therefore not a consideration, can you please note in the permit that the railway is protected and available for future transport and strategic use and it is recommended that prospective purchasers of the units undertake appropriate due diligence to inform themselves of any impacts associated with living in close proximity to a rail line.

If you can also attach the TasRail Standard Notes with the Permit would be appreciated.

Many thanks

Jennifer

---

**From:** Rebecca Plapp <rplapp@warwyn.tas.gov.au>  
**Sent:** Wednesday, 8 July 2020 11:24 AM  
**To:** Jennifer Jarvis <Jennifer.Jarvis@tasrail.com.au>  
**Subject:** 5 Sandy Crescent, Wynyard

Good morning Jennifer,

Just following up how you are getting on with the response (potential conditions/notes or comments), on 5 Sandy Crescent Wynyard development application?

Kind regards,

**Rebecca Plapp**  
Town Planner  
Waratah Wynyard Council  
21 Saunders Street (PO Box 168)  
Wynyard Tasmania 7325  
Phone: (03) 6443 8308  
Email: [rplapp@warwyn.tas.gov.au](mailto:rplapp@warwyn.tas.gov.au)





**At Waratah-Wynyard Council we take our responsibility to our community seriously. For accurate and up-to-date information regarding the current COVID-19 Pandemic please visit one of the following websites.**

Australian Government Coronavirus website at

<https://www.health.gov.au/news/health-alerts/novel-coronavirus-2019-ncov-health-alert>

Tasmanian Department of Health updates are at

[https://www.dhhs.tas.gov.au/news/2020/coronavirus\\_update](https://www.dhhs.tas.gov.au/news/2020/coronavirus_update)

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Tasmanian  
Electoral Commission

## Waratah-Wynyard Council

### CERTIFICATE OF ELECTION BY RECOUNT

I have conducted a recount in accordance with  
section 307 of the *Local Government Act 1993*.


I have this day declared

**Maureen Bradley**

elected to fill the vacant office of councillor  
to serve until the next ordinary election  
of the Council.

A handwritten signature in blue ink, appearing to read 'AH'.

Andrew Hawkey  
ELECTORAL COMMISSIONER  
22 June 2020

 <b>Tasmanian Electoral Commission</b>									
<h2>Waratah-Wynyard Councillor recount</h2>									
<p>Recount conducted Monday 22 June 2020</p>									
<p>Following the resignation of Councillor Allie House on 5 June 2020</p>									
Candidates									
		<b>BRADLEY</b> Maureen	<b>EWINGTON</b> Ken	<b>HYDE</b> Tony	<b>TRUMBULL</b> - WARD Trevor	Exhausted votes	Lost by Fraction	Total votes (the quota)	Absolute majority
Counts 1 - 9	Total votes	302.20	165.68	79.64	135.81	5.68	- 0.01	689.00	341.67
Counts 10 - 17	Total transferred	31.99	17.77	- 79.64	27.02	2.84	0.02		
	Total votes	334.19	183.45	0.00	162.83	8.52	0.01	689.00	341.24
Counts 18 - 25	Total transferred	89.59	60.44		- 162.83	12.79	0.01		
	Total votes	423.78	243.89		0.00	21.31	0.02	689.00	334.84
	Percentage	63.47%	36.52%						

**HDS Australia**

**Civil Engineers and Managers**



Adelaide • Melbourne • Sydney • Hong Kong

## **Waratah-Wynyard Council**

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### **RURAL ROAD NETWORK - ROAD SAFETY AUDIT**

### **Final Report**

---

**HDS Australia Pty Ltd**

Waverley Business Centre  
21-23 Aristoc Road  
Glen Waverley VIC 3150

**telephone** +61 3 9550 1858

**email** vic@hdsaustralia.com.au

**www.hdsaustralia.com.au**

**December 2019**

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*Safe and Sustainable Traffic Engineering Solutions*

Waratah-Wynyard Council

HDS Australia Pty Ltd

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## **1.0 INTRODUCTION**

Waratah-Wynyard Council has engaged HDS Australia Pty Ltd to undertake an existing conditions road safety audit of their entire rural road network, comprising of approximately 220km of sealed roads and 250km of unsealed roads.

This audit spanned Council-owned roads from Irby Boulevard in Sisters Beach to the north, to Newhaven Track to the west, to Aerodrome Road to the south, and to Back Cam Road to the east. Roads within the Council district that were classified as urban (within the townships of Wynyard, Somerset and Waratah) were not included in this audit, nor were state-owned highways or privately owned roads.

The purpose of the audit is to examine each road segment and intersection, commenting on deficiencies in all aspects of road safety. This includes, but is not limited to:

- Vertical and horizontal alignment;
- Intersection configuration and sight distance requirements;
- Signage;
- Clear zone requirements;
- Linemarking;
- Guideposts;
- Guardrails;
- Giving increased attention and weighting to road safety deficiencies in locations of:
  - B-double or freight networks;
  - High crash areas or zones, including areas with a high proportion of night time crashes or crashes in poor conditions; and
  - Locations that are 'identified sites' by Council as known to feature road safety deficiencies.

Refer to the Council document 'Transport DRAFT Service Level Document - Rural Roads 2017 v2' for a full listing and map of the roads audited. This document was relied upon during the audit for identifying the roads to be included in the audit and the hierarchy and relative weighting of these roads.



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## **2.0 ROAD SAFETY AUDIT PROCESS**

### **2.1 Preamble**

This report is a Road Safety Audit conducted in accordance with the Austroads Road Safety Audit Guidelines and included day time and limited night time inspections.

The purpose of this audit is to check against current Austroads and Tasmanian Local Government Association (LGA) standards and guidelines to highlight deficiencies on the rural road network, assign risk levels to these deficiencies, and propose treatments to assist Council in programming safety improvement works for their road network.

Background discussion and the generic reasoning behind the various findings are given in Section 3.0, while specific issues and recommended treatments are provided in the table of findings in Appendix A.

### **2.2 The Auditors**

The audit was carried out by:

**Kyle Yang** – Senior Traffic Engineer, Senior Road Safety Auditor, HDS Australia Pty Ltd.

Kyle is an experienced qualified Senior Road Safety Auditor. He has participated as an audit team member on road safety audits at the design, existing conditions and construction traffic management scheme stages. Kyle has previously undertaken the municipality wide audit of shared paths for City of Casey, City of Stonnington, City of Wyndham, and Benalla Rural City Council.

**Richard Medhurst** – Design Engineer, Senior Road Safety Auditor, HDS Australia Pty Ltd

Richard is an experienced qualified Senior Road Safety Auditor. He has participated as an audit team member on road safety audits at the design, existing conditions and construction traffic management scheme stages. He also is a design engineer with 5 years' civil design experience on major transport projects such as the Drysdale Bypass Project in Victoria and the Darlington Upgrade Project and the Northern Connector Project in South Australia.

The audit was reviewed by:

**Daniel Ahrens** – Principal Engineer and Senior Road Safety Auditor, HDS Australia Pty Ltd.

Daniel is Principal Roads and Infrastructure Engineer and accredited Senior Road Safety Auditor at HDS Australia. He has significant experience in road design and project management of road and transport projects.

### **2.3 The Audit Process**

The audit covers existing conditions that may affect rural road user safety (including motorists, motorcyclists, heavy vehicle drivers, cyclists and pedestrians) and seeks to identify potential safety hazards. However, the auditors point out that no guarantee can be made that every deficiency has been identified. Further, if all the recommendations in this report were to be followed, this would not guarantee that the



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rural roads are "safe". Rather, adoption of the recommendations should improve the level of safety on the rural roads.

The inspections of rural roads were carried out by Kyle Yang and Richard Medhurst in November 2019. Inspections were undertaken by car, with further inspections by foot where necessary.

## 2.4 Classification of Concerns

The safety concerns identified from the audit and recommended actions have been graded into five classes:

- **INTOLERABLE** – Must be corrected;
- **HIGH** – Should be corrected or the risk significantly reduced, even if the treatment cost is high;
- **MEDIUM** – Should be corrected or the risk significantly reduced, if the treatment cost is moderate, but not high;
- **LOW** – Should be corrected or the risk reduced, if the treatment cost is low;
- **NOTED** – Other items.

*These classifications are based on the following risk level matrix:*

	Frequent (once or more a week)	Probable (once or more a year)	Occasional (once or more in 10 years)	Improbable (less often than every 10 years)
Catastrophic (Likely multiple deaths)	Intolerable	Intolerable	Intolerable	High
Serious (likely death or serious injury)	Intolerable	Intolerable	High	Medium
Minor (likely minor injury)	Intolerable	High	Medium	Low
Limited (property damage)	High	Medium	Low	Low

## 2.5 Responding to the Audit

As set out in the Austroads guide, responsibility for any works rests with the project manager. The project manager is under no obligation to accept the recommendations of the road safety audit. Also, it is not the role of the auditor to agree to or approve of the project manager's response to this road safety audit.

The road safety audit provides the opportunity to highlight potential problems and have them formally considered by the project manager, in conjunction with all other considerations.

## 2.6 References and documents used in the Audit

- Transport DRAFT Service Level Document - Rural Roads 2017 v2;
- LGAT Standard Drawings Release Version Dec 2013;
- AS1742.2-2009 "Manual of Uniform Traffic Control Devices – Part 2: Traffic control devices for general use";

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- Austroads Guide to Road Safety Part 6: Managing Road Safety Audits;
- Austroads Guide to Road Safety Part 6A: Implementing Road Safety Audits;
- Austroads Guide to Traffic Engineering Practice Series;
- Austroads Guide to Road Design Series (GRD);
- Austroads Guide to Traffic Management Series; and
- PBS Scheme – Network Classification Guidelines, July 2007.

**2.7 Definition of the Clear Zone**

For the purpose of this audit, the clear zone has been defined as per Figure 1 of the Local Government of Tasmania's Standard Drawing TSD-R27-v1.

**2.8 Definition of Acceptable Safe Intersection Sight Distances**

For the purpose of this audit, safe intersection sight distances have been defined as per the Local Government of Tasmania's Standard Drawing TSD-RF01-v1.

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### 3.0 GENERAL FINDINGS

Across the network, the issues noted below were encountered numerous times, on most of the roads audited. As such, some of these that were regularly occurring (such as power poles, trees and culvert endwalls within the clear zone) are generally not also noted within the location-specific issues in Appendix A, unless they are of a higher risk than usual.

#### 3.1 Power poles within the clear zone

In most cases the presence of power poles within the clear zone is unavoidable, with power poles being located within a road reserve that itself is narrower than the clear zone on roads with allowable speeds of up to 100km/h for sealed and 80km/h for unsealed surfaces.

In the majority of cases this was deemed to be a very low risk and therefore not raised as individual items for every power pole positioned within the clear zone. In some cases however, power poles have been specifically identified as a higher risk due to very close proximity to the traffic lane and / or being located on a horizontal curve. This is generally recommended to be addressed by delineating the hazard such as the addition of hazard marker (D4-1-2) or reflectors, either onto the pole itself or by way of installing reflectorised guide posts either side of the power pole.

See example photos 1 and 2 in Appendix B.

#### 3.2 Trees within the clear zone

Being a rural environment, numerous roads audited featured trees within the road reserve, many of which were within the clear zone. As with power poles, while removing all trees from within the clear zone of the roads audited would certainly improve motorist safety, it is conceded that this solution is impractical, and also unlikely to gain public support. Therefore similar to the presence of power poles, it has been noted that some roads contain trees within the clear zone, however only higher risk trees (due to very close proximity to the traffic lane and / or being located on a horizontal curve) have been flagged as recommendation for delineation, protection or removal.

See example photos 3 and 4 in Appendix B.

#### 3.3 Non-trafficable culvert endwalls, culvert drop-offs or shaped cuttings within the clear zone

Similar to the cases above, due to the undulating topography of most of the Council District almost all roads audited featured stormwater culverts crossing under the road. These culverts varied in endwall treatments, from non-trafficable precast wingwalls or square endwalls, to retaining structures constructed from bricks or stabilised sandbags, formed concrete-lined dishes or pipe ends with no endwall. In just about all cases, these were both non-trafficable and located within the clear zone.

In many locations, relocating these endwalls outside of the clear zone would require significant earthworks (or would simply not be possible due to property boundaries) and the installation of the correct form of trafficable endwall or protection of the endwall is unlikely to be feasible for the volume of endwalls sighted. These were noted during the inspection, but were only flagged as being a higher risk if there was a lack of

guideposts identifying these endwalls, a significant drop-off, a multi-cell culvert or other feature that posed an increased risk to motorists.

See example photos 5 and 6 in Appendix B.

### 3.4 Steep drop offs within the clear zone

Many of the roads audited feature unsafe embankments within the clear zone that are non-trafficable, and in some cases would cause errant vehicles to roll into a waterway or another hazard. Again due to the volume of this type of hazard, general comments are made regarding drop-offs, with higher risk locations specifically identified for treatment.

See example photos 7 and 8 in Appendix B.

### 3.5 Lack of control and delineation around sub-standard horizontal curves

With default rural speed limits of 100km/h on sealed roads and 80km/h on unsealed roads, there are numerous locations on the roads audited where, due to horizontal and vertical geometry, the safe advisory speed limit is much lower than these defaults. Some of these locations have treatments in the way of reduced guide post spacing, chevron alignment markers (CAMs), curve or turn signage or advisory speed signage; however there are many locations that do not. The majority of roads audited would benefit from additional guide posts, spaced in accordance with AS 1742.2 (2009) and Local Government Association Tasmania's Standard Drawing (TSD-R25-v1) (see Table 1 below).

**Table 1 – Recommended guide post spacing, taken from IPWEA / LGAT's Tasmanian Standard Drawings TSD-R25-v1**

CURVE RADIUS (m)	SPACING (m)	
	OUTSIDE OF CURVE	INSIDE OF CURVE
< 100	6	12
100 – 199	10	20
200 – 299	15	30
300 – 399	20	40
400 – 599	30	60
600 – 799	40	60
800 – 1199	60	60
1200 – 2000	90	90
> 2000 Incl. straights	150	150

See example photo 9 in Appendix B.

### 3.6 Lack of visibility and delineation at intersections

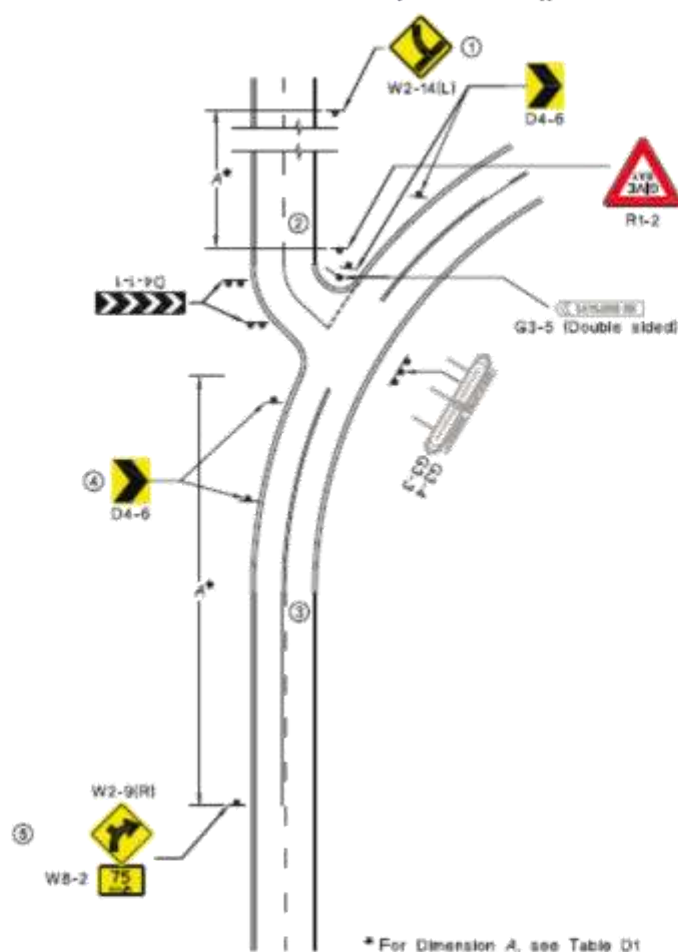
Many of the intersections audited feature no delineation or features to alert the road user to the intersection ahead. While some of these intersections are very minor in nature, others intersect with higher volume roads, and an increased level of delineation and advance warning should be provided, particularly where approach sight distance to the intersection may be limited.

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Figure 1 below (from AS 1742.2) gives some guidance for signage and linemarking controls at typical T intersections. This approach has been suggested for intersections within the Waratah-Wynyard Council district for intersections with higher traffic volumes (where one of the roads is either a Collector road or a State-owned Highway) and reduced treatments have been proposed for lower traffic volume intersections, as outlined below.

**Figure 1 – Typical signage and linemarking layout for a T Intersection (Figure 2.4 from AS 1742.2 (Section 2.12))**



**NOTES:**

- 1 The W2-14(L) sign is not required if intersection visibility is satisfactory at the distance given in Table 2.3.
- 2 For use of the side road separation line, see Clause 5.3.9(a)(iv).
- 3 Barrier lines may be supplemented with RRPMs if night time delineation of the intersection is likely to be a problem and the remainder of the route is not treated continuously with RRPMs.
- 4 If the curve is substandard, Chevron Alignment markers (CAMs) (D4-6), are placed as shown in accordance with Clause 4.4.7.11. If the curve is not substandard, CAMs are not used but two D4-1-1 Hazard markers may be placed one each side of the intersection in the CAM positions.
- 5 This sign is provided in accordance with Table 2.4.
- 6 Similar signs may be required for the opposite approach.

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Recommended treatments for intersections involving the following road hierarchies:

Generally no additional treatment required e.g. retain any current controls

- Minor / Minor

Advance warning T-junction signage, hold line and centreline linemarking if sealed, and retain any current controls.

- Minor / Local Access
- Minor / Feeder
- Local Access / Local Access
- Local Access / Feeder
- Feeder / Feeder

Advance warning give-way signage, give way signage, hazard board signage, hold line, continuity line and centreline linemarking, and retain any current controls.

- Minor / Collector
- Minor / State Highway
- Local Access / Collector
- Local Access / State Highway
- Feeder / Collector
- Feeder / State Highway
- Collector / Collector
- Collector / State Highway

Side road intersection advance warning signage should also be considered for the major road in a number of locations where safe intersection sight distance (SISD) is poor and traffic volumes are medium to high.

### 3.7 Lack of sight distance at intersections

Safe intersection sight distance (SISD) has been checked from the minor road(s) at all intersections within the audit. Based on IPWEA / LGAT's Guide to Intersection and Domestic Access Sight Distance Requirements (TSD-RF01-v1) (see Table 2 below) the required SISD on sealed roads would be 250m, and on unsealed roads 175m. This assumes vehicle speeds on the continuing roads of 100km/h and 80km/h respectively on these roads; however it was observed that the road conditions regularly require motorists to be travelling at a speed below the posted speed limit.

Where SISD is below these values, comment is given as to what is limiting the SISD. Generally if it is due to road geometry (a crest or curve in the road) an assessment has been made as to the level of risk, and recommendations including provision of signage on the main road advising of the side road, minor earthworks to open up a cutting, or no action required. If the reduced SISD is due to vegetation encroaching then removal or trimming of vegetation may be recommended.

**Table 2 – Safe Intersection Sight Distances (from LGAT's Guide to Intersection and Domestic Access Sight Distance Requirements (TSD-RF01-v1))**

VEHICLE SPEED	SAFE INTERSECTION SIGHT DISTANCE METRES, FOR SPEED LIMITS OF:	
(km/h)	60 km/h or less	Greater than 60 km/h
50	80	90
60	105	115
70	130	140
80	165	175
90		210
100		250
110		290

If SISD is severely reduced to a length less than that provided in AS 1742.2 Figure 2.2 (see Table 3 below) then STOP signage is generally recommended for the minor road.

**Table 3 – Sight distance restrictions requiring use of stop signs (from AS 1742.2 Figure 2.2)**

Major road speed (see Note 4) km/h	Distance along major road: Y, (see Note 6) m
40	20
50	30
60	40
70	55
80	65
90	80
100	95
110	115
120	140

NOTES:

- 1 Separation line (undivided road), or right hand edge of right hand through lane (divided road).
- 2 A check to the left is required at a divided road except where the median is wide enough for a crossing or turning manoeuvre to be staged in the median.
- 3 Where visibility is limited due to some removable obstruction, (e.g. vegetation or earth bank) attempts should be made to remove the obstruction rather than install a STOP sign.
- 4 The posted or default speed limit is used, unless the 85<sup>th</sup> percentile speed is significantly higher.
- 5 Where the minor road approach is an arterial road this dimension should be increased to 4.5 m.
- 6 When checking sight distance the height of both the observer's eye and the object is 1.05 m.
- 7 If the safety of the surveyor is likely to be a problem, sighting may be taken from the kerb in the minor road, with appropriate adjustments to the sight triangle.
- 8 The distances in the Table along both the minor road and the major road are based empirically on the ability of a driver on the minor road approaching the intersection at a speed of 10 km/h or less, being able to stop before reaching a conflict point if there is insufficient gap for crossing or joining the major road stream.



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### **3.8 Existing use of guard rail on corners and across culverts and bridges**

Guard rail was observed during the audit at a number of locations; the guard rail was generally in good condition and featured one of three types of terminals:

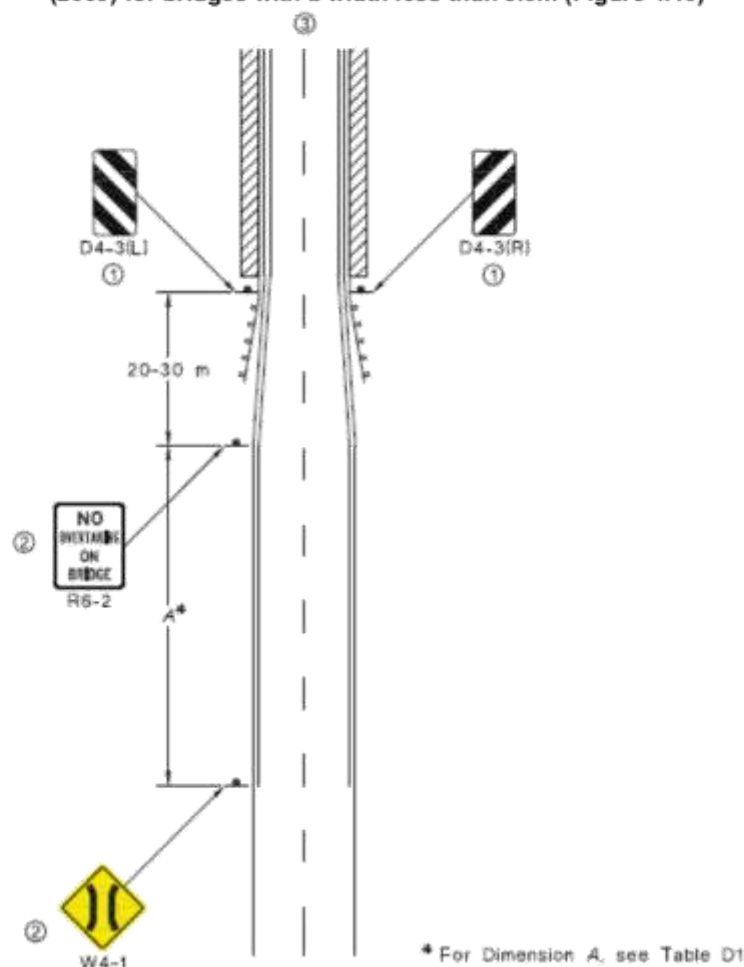
- Gating Redirective Energy Absorbing Terminals (G.R.E.A.T.) – This terminal type is the highest standard of terminal and is preferred.
- Breakaway Cable Terminal (BCTA/BCTB) – This terminal type is no longer approved by VicRoads where there is a chance it can be struck head-on and therefore is generally recommended to be replaced by a G.R.E.A.T., however is more effective in locations where a small radius flare is required (for example where a property access is adjacent a bridge) and would be of low priority to replace on low/medium traffic volume roads.
- Fishtail terminal – This is the least preferred terminal type and would generally constitute a high risk item for replacement to a G.R.E.A.T. due to its potential to spear through a vehicle if struck on its end.

Bridges should be protected by guard rail or rigid barrier and have signage (and linemarking, if required) in accordance with AS 1742.2 (2009) Section 4.6.2 (see Figure 2 below). If bridges have a poor approach alignment, have a width between bridge kerbs or barrier of less than 5.0m, or less than 5.5m if the proportion of trucks and buses is greater than one third of the traffic using the bridge then a 'ONE LANE' sign (W8-16) shall also be provided in conjunction with the Narrow Bridge sign (W4-1).

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**Figure 2 – Bridge signage requirements for a narrow bridge taken from AS 1742.2 (2009) for bridges with a width less than 8.6m (Figure 4.10)**



**NOTES:**

- 1 Width markers (D4-3) are required in accordance with Clause 4.6.7.2(c).
- 2 The use of the R6-2 and W4-1 signs is given in Clauses 4.6.6.1(c) and 4.6.6.3(a) respectively.
- 3 The arrangement for one-lane bridges (Figure 4.11 or 4.12) is required where the width conditions given in Clause 4.6.2.2 apply.

### 3.9 Bass Highway and minor side road intersections

Numerous roads were audited which connected to Bass Highway and are minor both in terms of their road hierarchy classification and the observed environment / expected traffic volumes. For many of these situations there was no deceleration lane (sealed or unsealed) on Bass Highway in which to safely slow down before turning into the side road. This was noted as a general safety risk due to the high speed of Bass Highway (generally 100km/h signposted), high traffic volumes on Bass Highway and large number of side roads directly connected to Bass Highway. This situation is considered

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to be outside the control of Council and therefore no recommendations are provided, however.

### **3.10 Pavement surface**

Pavement surface (for both sealed and unsealed sections of road) was generally of a high quality across most of the roads audited. There are some locations where surface deterioration results in a safety concern and these have been noted within the table of findings.

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#### 4.0 TABLE OF AUDIT FINDINGS AND RECOMMENDATIONS

Approximately 470 km of rural roads were audited, with 361 findings identified. Of these, 71 were identified as medium risk items and 27 were identified as high risk items. For all issues identified, a recommended treatment has been provided, with a treatment cost estimate also provided for high risk items.

Through the small townships of Boat Harbour and Sisters Beach less detail has been documented in the table of findings. This is due to these environments being low speed residential (generally 40km/h zones) and therefore posing a low risk in terms of rural road safety risks.

Where an intersection contains roads of differing road hierarchies, the higher of the two is listed in the table of findings. Where a sealed and an unsealed road meet at an intersection, the intersection is listed as sealed / unsealed depending on if the throat / approach of the minor road is sealed.

Due to the topography of most of the Waratah-Wynyard Council district being fairly undulating, with narrow road widths, steep and narrow road reserves featuring a number of roadside hazards within the clear zone and generally low traffic volumes, a general finding was that a broader application of low cost improvements, such as additional guide posts and advisory signage are potentially a more effective network-wide treatment than an application of fewer, high cost, high effectiveness treatments at select locations.

The findings of the audit are detailed in Appendix A and photographs and map locations are linked within findings table.

Audited by:



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December 2019



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Reviewed by:



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December 2019

## **Appendix A**

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### Table of Findings

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Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between Road A	Road B														
1	Table Cape Road			11/11/2019	Sealed	Centreline linemarking present with no RRPMS. No advance warning of speed humps towards lookout.	7. Collector	Low	Install RRPMS where centreline linemarking is present. Install advance warning signage for speed bumps.	-	IMG_1564.jpg	145.7285	-40.9537201	392988.885	5465502.084	<a href="#">View Photo</a>	<a href="#">View Location</a>
2	Table Cape Road			11/11/2019	Sealed	Steep drop offs within clear zone (multiple lengths). Sight issues around multiple bends (earthworks cutting and veg) and no CAMs, corner or advisory speed signs. No CAMS on corner coming up hill northbound.	7. Collector	Medium	Install additional guide posts along sections of steep drop off adjacent to the road. Consider CAMs on corner with steep drop off.	-	IMG_1579.jpg	145.722626	-40.9552612	392497.01	5465423.794	<a href="#">View Photo</a>	<a href="#">View Location</a>
3	Table Cape Road	Murdering Gully Road	Intersection	11/11/2019	Sealed	Identified site by Council - From the side road: Poor delineation, limited sight to left due to crest, linemarking worn off and linemarked with 2 different hold lines, looks like a straight through on the give way road - see through effect and no advance warning of a give way. S1SD right: 181m S1SD left: 135m  When turning right from Table Cape Road eastern approach to Murdering Gully Road northern approach, sight is poor to the Table Cape Road southern approach (see photo). This is an unsafe intersection. Outdated style of corner sign on Table Cape Road (and should be turn sign).	7. Collector	High	Consider earthworks to reduce cutting on inside of corner and realign fence to increase sight through intersection. Increase length of pavement seal on minor road, update intersection signage in line with AS 1742 and refresh intersection linemarking. Consider re-prioritising intersection to a T intersection with Table Cape Road east approach becoming the minor leg.	\$ 59,000	IMG_1617.jpg	145.710266	-40.9500801	391464.637	5464875.778	<a href="#">View Photo</a>	<a href="#">View Location</a>
4	Lighthouse Road			11/11/2019	Unsealed	Sight issues around corners due to geometry and veg, limited guideposts. 90 degree bend with no delineation. Guideposts used frequently on some lengths but not all. Power poles in clear zone. Some minor potholes. Culvert drops - guideposts provided. No through road.	10. Minor	Low	Trim vegetation on corners to improve sight distance along road. Add guideposts and advisory signage / CAMs at 90 degree bend	-	IMG_1560.jpg	145.726151	-40.946886	392780.132	5466367.653	<a href="#">View Photo</a>	<a href="#">View Location</a>
5	Lighthouse Road	Table Cape Road	Intersection	11/11/2019	Sealed	No signage or linemarking. S1SD right 130m S1SD left 180m Sight impacted by road geometry.	7. Collector	Low	Install advance warning T intersection signage on minor road approach. Install advance warning side road intersection signage on major road (both directions).	-	IMG_1575.jpg	145.728561	-40.953701	392993.988	5465504.279	<a href="#">View Photo</a>	<a href="#">View Location</a>
6	Ransleys Road			11/11/2019	Unsealed	One lane and narrow, only servicing one property (more of an extended driveway). No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
7	Ransleys Road	Table Cape Road	Intersection	11/11/2019	Unsealed	No signage or linemarking. S1SD left 250m+ S1SD right 210m	7. Collector	Low	Install advance warning T intersection signage on minor road and linemark intersection.	-	IMG_1581.jpg	145.719437	-40.9563828	392230.444	5465295.355	<a href="#">View Photo</a>	<a href="#">View Location</a>
8	Tollymore Road	Table Cape Road	Murdering Gully Road	11/11/2019	Sealed	Outdated style of corner sign, corners with bad sight, drop offs, culverts with endwalls in clear zone, creek drop offs on outside of corners.	9. Local Access	Low	Replace advisory corner sign with current style of corner sign as per AS 1742. Consider installing additional guide posts around drop off locations.	-	IMG_1589.jpg	145.714401	-40.9525452	391800.348	5465715.154	<a href="#">View Photo</a>	<a href="#">View Location</a>
9	Tollymore Road	Table Cape Road	Intersection	11/11/2019	Sealed	Give way sign and linemarking. S1SD left 250m+ S1SD right 250m+	7. Collector	Low	Consider installing advance warning T intersection signage on minor road approach.	-	IMG_1591.jpg	145.718109	-40.9564934	392118.859	5465281.438	<a href="#">View Photo</a>	<a href="#">View Location</a>
10	Murdering Gully Road			11/11/2019	Unsealed	Culvert drop offs and power poles in clear zone. Gully crossing - guideposts provided. No guideposts on the two sharpest corners, these are both heading downhill (northbound), have poor sight through the corner and the second has a dam on the outside of the corner.	9. Local Access	Medium	Add guideposts to 2 sharp (downhill) corners. Consider curve signage or CAMs also.	-	IMG_1594.jpg	145.709305	-40.9587097	391381.55	5465024.495	<a href="#">View Photo</a>	<a href="#">View Location</a>
11	Murdering Gully Road	Tollymore Road	Intersection	11/11/2019	Sealed	Downhill corner with steep drop off - nothing on corner. Outdated corner /side road signage on Tollymore. Kerb outstand to square up intersection on Murdering Gully Road is present. Giveaway sign and (faded) linemarking S1SD left 150m S1SD right 200m (limited by road geometry). Power poles in clear zone.	9. Local Access	Low	Replace advisory corner sign with current style of corner sign as per AS 1742. Refresh linemarking on minor road. Consider installing additional guide posts around corner on Tollymore on both sides of the road.	-	IMG_1602.jpg	145.708267	-40.952282	391283.948	5465735.761	<a href="#">View Photo</a>	<a href="#">View Location</a>
12	Tollymore Road	Murdering Gully Road	Bass Highway	11/11/2019	Sealed	Two sharp 90 degree turns with driveways continuing straight - limited guideposts and centreline linemarking faded (advisory speed and turn signage present). Bad sight around corners (as above), some steep drop offs, corners with no delineation. Centreline linemarking present but no RRPMS. Good use of additional guideposts on side of road with steep embankment. Guidepost present by power pole on outside of corner.	9. Local Access	Medium	Add CAMS, unidirectional hazard marker or additional guideposts to improve delineation around tight corners, limit 'see through' effect down driveways. Refresh linemarking on corners. Add centreline RRPMS.	-	IMG_1622.jpg	145.69783	-40.9470253	390396.522	5466307.286	<a href="#">View Photo</a>	<a href="#">View Location</a>
13	Tollymore Road	Bass Highway	Intersection	11/11/2019	Sealed	Sight to intersection from minor road blocked by shed, no advance warning of give way, but low approach speed due to corner. Give way sign and linemarking present. S1SD left 190m S1SD right 250m+	1. State Highway	Low	Add advance give way / intersection warning signage, add hazard board on major road opposite minor road.	-	IMG_1642.jpg	145.689863	-40.9488029	388055.587	5466074.658	<a href="#">View Photo</a>	<a href="#">View Location</a>
14	Port Road	Bass Highway	Intersection	15/11/2019	Sealed	Linemarking, give way signage and splitter island present S1SD right 140m S1SD left 250m+ Sweeping bend on approach from minor road hides the intersection. Four crashes in the past 5 years at this intersection (minor or property damage).	1. State Highway	Medium	Add advance give way / intersection warning signage, add hazard board on major road opposite minor road.	-	IMG_0984.jpg	145.623596	-40.9486307	384152.643	5465922.315	<a href="#">View Photo</a>	<a href="#">View Location</a>
15	Port Road	Bass Highway	Sisters Beach Road	11/11/2019	Sealed	Guard rail near Bass Highway features fish tail type terminals (x2), guard rail has no reflectors.	9. Local Access	High	Replace guard rail's fish tail terminals with G.R.E.A.T. terminals, add reflectors to guard rail.	\$ 14,000	IMG_0981.jpg	145.623627	-40.9482836	384154.946	5465960.888	<a href="#">View Photo</a>	<a href="#">View Location</a>



Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between Road A	Road B														
16	Port Road	Bass Highway	Sisters Beach Road	11/11/2019	Sealed	Identified site by Council - Properties 9-15 Port Road - only two accesses for vehicles exiting properties onto Port Road - poor sight distance along Port Road to the north from accesses when exiting onto Port Road due to crest - cannot be easily improved. 15 Port Road has two accesses and has restricted the access closer to the crest as 'in' only - good. 'Concealed entrance' signage already provided on Port Road from the north.	9. Local Access	Low	One crash along this section of road (8-15 Port Road) in last 5 years (property damage only). Could consider restricting the speed limit to 60km/h from Bass Highway to north of the crest. Could also consider extending a speed limit reduction further north past a 90 degree bend in Port Road prior to Sister Beach Road - some treatments here already (advisory speed and turn signage, CAMs and reduced spacing of guideposts) but 4 crashes here in the past 5 years.	-	IMG_5973.jpg	145.623566	-40.9506569	384151.912	5465808.353	<a href="#">View Photo</a>	<a href="#">View Location</a>
17	Port Road	Sisters Beach Road	Hepples Road	11/11/2019	Sealed	Steep, winding section of road connecting a high speed road to the township of Boat Harbour (tourist destination). Signposted speed limit of 80km/h and advisory speed limit (winding road) of 35km/h signposted. Culvert drop offs, steep embankment drop offs on outside of corners and downhill incline when travelling into Boat Harbour (including an identified site by Council - near property 212 Port Road), guideposts provided in some locations, sparse in others. Centreline line marking provided but no RRPMS. Guardrail provided once in 40km/h zone protecting embankment, some with G.R.E.A.T. terminals, some with bull nose terminals. New sub-divisions under development in this town, likely to get high traffic volumes in summer and high level of tourist traffic (unfamiliar with the roads).	9. Local Access	High	Remove 100km/h speed limit sign on Port Road north of Sisters Beach Road intersection. Install guard rail with G.R.E.A.T. terminals on Port Road north of 212 Port Road to protect embankment (approximate length 250m). Install CAMs on corner adjacent property 192 Port Road. Install additional guideposts on corners and locations with steep embankment drop offs.	\$ 87,000	IMG_1699.jpg	145.62149	-40.933403	383946.976	5467721.006	<a href="#">View Photo</a>	<a href="#">View Location</a>
18	Port Road	Sisters Beach Road	Hepples Road	11/11/2019	Sealed	As above.	9. Local Access	Low	Replace bull nose guard rail terminals with G.R.E.A.T. terminals. Add RRPMS to centreline line marking.	-	IMG_1686.jpg	145.619736	-40.9319153	383796.7	5467863.63	<a href="#">View Photo</a>	<a href="#">View Location</a>
19	Port Road	Sisters Beach Road	Intersection	11/11/2019	Sealed	SISD 200m left, 150m right, line marking ok. 100km/h signage located on Port Road shortly before T intersection where this leg must give way, and give way signage initially covered by vegetation (corner on approach).	9. Local Access	Medium	Trim vegetation in front of give way sign on approach to Sisters Beach Road. Install advance warning give way / T intersection signage.	-	IMG_1680.jpg	145.623367	-40.9381905	384113.368	5467192.022	<a href="#">View Photo</a>	<a href="#">View Location</a>
20	Port Road	Hepples Road	End of road (north)	11/11/2019	Sealed	40km/h residential / built up zone. No issues in the context of this rural road safety audit.	9. Local Access	-	-	-	-	-	-	-	-	-	-
21	Boat Harbour	Minor roads within township		11/11/2019	Sealed	40km/h residential / built up zone. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
22	Hepples Road			11/11/2019	Sealed	Identified site by Council - Slight issues for the property access for 8 Hepples Road. Vegetation and a sharp corner blocking sight. Very low speed environment and no through road (low traffic).	10. Minor	Low	Consider removing tree(s) on inside of corner or trim to increase sight distance from access.	-	IMG_1698.jpg	145.620148	-40.9318619	383831.293	5467890.306	<a href="#">View Photo</a>	<a href="#">View Location</a>
23	Sisters Beach Road			11/11/2019	Sealed	Trees and power poles within clear zone, culvert drop offs / endwalls. Guard rail with bull nose terminals. Tree located directly behind barrier, corners which would benefit from CAMs. Reduced sight around corners due to cuttings. Good use of advisory signage, guideposts around corners. Numerous crashes along this road in last 5 years between Boat Harbour and Sisters Beach, majority of these are property damage only or first aid.	9. Local Access	Medium	Consider addition of CAMs on corner with Banksia Park Road & Dicks Road.	-	IMG_1617.jpg	145.597321	-40.929882	381906.924	5468079.52	<a href="#">View Photo</a>	<a href="#">View Location</a>
24	Sisters Beach Road			11/11/2019	Sealed	As above.	9. Local Access	Low	Consider the addition of CAMs on other corners. Remove tree that is in close behind guard rail. Upgrade guard rail terminals to G.R.E.A.T. terminals.	-	IMG_1786.jpg	145.597795	-40.9258423	379412.658	5468467.681	<a href="#">View Photo</a>	<a href="#">View Location</a>
25	Sisters Beach	All minor roads within township		11/11/2019	Sealed	40km/h residential / built up zone - no issues with these township roads in the context of this audit, other than roads / issues identified below. Guard fence within the town with outdated (bull nose) terminal types however these are curved to maintain access, and are in a low speed environment - retain.	10. Minor	-	-	-	-	-	-	-	-	-	-
26	Irby Circus			11/11/2019	Sealed	Narrow roadway, 90 degree corner (north-west corner of the loop) with vegetation blocking sight around corner. Low risk due to the low speed environment and low (local) traffic volumes.	10. Minor	Low	Consider trimming vegetation to improve sight around corner.	-	IMG_1770.jpg	145.559662	-40.920106	378717.485	5489106.577	<a href="#">View Photo</a>	<a href="#">View Location</a>
27	Tink Taylor Avenue			11/11/2019	Sealed	40km/h residential / built up zone and a no through road - no issues in the context of this audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
28	Tink Taylor Avenue	Sisters Beach Road	Intersection	11/11/2019	Sealed	No intersection line marking or signage. SISD right 250m. SISD left 150m (curve).	10. Minor	Low	Install advance warning 'curved intersection' signage on Tink Taylor Avenue ahead of the Sisters Beach Road intersection. Line mark intersection.	-	IMG_1797.jpg	145.577681	-40.9281367	380266.04	5468266.611	<a href="#">View Photo</a>	<a href="#">View Location</a>
29	Banksia Park Road			11/11/2019	Sealed	No guideposts - trees and power poles in clear zone. Low risk as a no through road that services few properties.	10. Minor	Low	Add guideposts, particularly on corners.	-	IMG_1619.jpg	145.598724	-40.9295156	382023.397	5468122.067	<a href="#">View Photo</a>	<a href="#">View Location</a>
30	Banksia Park Road	Sisters Beach Road	Intersection	11/11/2019	Sealed	No intersection line marking or signage. SISD right 80m (crest in road, corner where vehicles on the main road will be travelling at a lower speed), SISD left 250m.	10. Minor	Low	Add edge line line marking on the continuing road. No standard signs available to put on main road to indicate presence of side road, as already an advisory turn sign on main road (these aren't done with a side road). Add side road sign.	-	IMG_1626.jpg	145.598356	-40.9290738	381993.397	5468070.751	<a href="#">View Photo</a>	<a href="#">View Location</a>
31	Dicks Road			11/11/2019	Sealed	Road very narrow, no through road, low speed environment. One power pole very close to (narrow, single) traffic lane, no guideposts.	10. Minor	Low	Delineate power pole. Add guideposts, particularly on corners.	-	IMG_1631.jpg	145.598623	-40.9306068	382117.867	5468002.434	<a href="#">View Photo</a>	<a href="#">View Location</a>

Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between Road A	Road B														
32	Dicks Road	Sisters Beach Road	Intersection	11/11/2019	Sealed	No intersection linemarking or signage. S1SD 100m either side (on outside of curve, vegetation impacting).	10. Minor	Low	Trim vegetation to improve sight lines. Add edgeline linemarking on the continuing road.	-	IMG_1836.jpg	145.598618	-40.930233	382015.749	5488042.306	<a href="#">View Photo</a>	<a href="#">View Location</a>
33	Pokes Road			11/11/2019	Unsealed	Tight 90 degree corner with no safety measures. Limited guideposts other than at culvert crossings. No through road.	10. Minor	Low	Add guideposts, particularly on corners.	-	IMG_1854.jpg	145.617035	-40.9382188	383575.099	5467513.806	<a href="#">View Photo</a>	<a href="#">View Location</a>
34	Brunts Road			11/11/2019	Unsealed	Incorrectly signposted as Strawberry Lane. Sight distance blocked by rainwater tank at Pokes Road intersection, however this only services a couple properties - low risk.	10. Minor	Low	Add advance warning T intersection signage on Brunts Road and advance warning side road signage on Pokes Road western approach.	-	IMG_1863.jpg	145.614638	-40.9341612	383386.315	5467625.785	<a href="#">View Photo</a>	<a href="#">View Location</a>
35	Pokes Road	Sisters Beach Road	Intersection	11/11/2019	Sealed	No linemarking, hazard board opposite minor road. S1SD right 50m (crest), left 250m+. Identified site by Council - Request for speed limit to be reduced from 100km/h to 80km/h around this intersection - Observation is that traffic volumes appear to be low and vehicles approaching from the west (limited S1SD) seem to be going closer to 80km/h than 100km/h already due to the road environment. Advising of the side road on Sisters Beach Road may be more effective.	9. Local Access	Medium	Add advance warning stop and stop signage on minor road and linemark intersection. Change 'curve' warning signage on Sisters Beach Road to 'side road intersection on a curve' signage for both approach directions.	-	IMG_1868.jpg	145.616745	-40.9365341	383553.171	5467355.003	<a href="#">View Photo</a>	<a href="#">View Location</a>
36	Mount Hicks Road	Bass Highway	Seabrook Road	12/11/2019	Sealed	Centreline linemarking and RRPMS present. RRPMS are white (should be yellow) Outdated style of side road intersection warning sign for Coopers Lane and side road intersection on corner for Old Mount Hicks Road. Downhill corner with large drop off on outside of corner - some guideposts here. CAMs used on corner near southern intersection with Old Mt Hicks Road (good) however one of these has been rotated incorrectly. Limited guideposts used on some corners along southern section without CAMs. Guard rail with bull nose terminals.	8. Feeder	Low	Replace white RRPMS with yellow RRPMS and replace side road intersection signage and side road intersection on corner signage in accordance with AS 1742. Adjust CAMs near southern Old Mount Hick Road intersection to be aligned correctly. Upgrade guard rail terminals to G.R.E.A.T. terminals. Mow into verge further to expose large drop off on side of road for motorists.	-	IMG_1946.jpg	145.744873	-41.0505524	394521.412	5454872.33	<a href="#">View Photo</a>	<a href="#">View Location</a>
37	Mount Hicks Road	Tom Moores Road	Property Access	12/11/2019	Sealed	83 Mt Hicks Road Yolla Co-op - identified site. Angle of driveway entrance in conjunction with intersection. This is currently a wide, paved area with no linemarking or signage. If there are issues with vehicles cutting out in front of traffic on Tom Moores Road heading onto Bass Highway then formalising this intersection would improve this.	9. Local Access	Low	Linemarking and signage for give way onto Mount Hicks Road and an edgeline around Tom Moores Road to separate the property access. Hold lines, centrelines, edgelines (and chevrons if Tom Moores Road is wide enough at the intersection with Mount Hicks Road should help identify that the property access is off of Tom Moore Road, not Mount Hicks Road.	-	IMG_2041.jpg	145.750809	-41.0000887	394940.057	5480463.672	<a href="#">View Photo</a>	<a href="#">View Location</a>
38	Mount Hicks Road	464 Mount Hicks Road	Property Access	12/11/2019	Sealed	464 Mt Hicks Rd - identified site. Limited sight from property access around southern corner due to trees in neighbouring property. These are within the property, little encroachment into road reserve. 'Concealed entrances' warning signage already used.	8. Feeder	Low	Consider requesting for neighbour to trim / remove trees on corner.	-	IMG_1916.jpg	145.745972	-41.0312958	394583.048	5457011.411	<a href="#">View Photo</a>	<a href="#">View Location</a>
39	Bourkes Road			12/11/2019	Unsealed	Tight 90 degree turn with advance warning turn sign but no other safety measures. Turn is just after a crest and hard to see. Difficult to use guideposts due to driveways and farm accesses.	10. Minor	Low	Consider adding unidirectional hazard signage to highlight the tight turn.	-	IMG_1903.jpg	145.746889	-41.0121002	394612.721	5459143.25	<a href="#">View Photo</a>	<a href="#">View Location</a>
40	Bourkes Road	Mount Hicks Road	Intersection	12/11/2019	Sealed	No signage or linemarking. S1SD left 140m (crest) S1SD right 210m	8. Feeder	Low	Install advance warning T intersection signage.	-	IMG_1904.jpg	145.747894	-41.0153503	394719.223	5458763.899	<a href="#">View Photo</a>	<a href="#">View Location</a>
41	Coopers Lane	Mount Hicks Road	Intersection	12/11/2019	Sealed	S1SD left 250m+, S1SD right 150m (crest). Linemarking ok, a little faded. Give way sign present.	8. Feeder	Low	Install advance give way / T intersection and hazard board signage. Refresh linemarking.	-	IMG_1894.jpg	145.750854	-41.0116501	394982.238	5459198.237	<a href="#">View Photo</a>	<a href="#">View Location</a>
42	Old Mount Hicks Road			12/11/2019	Unsealed	Corners with limited guideposts. Steep drop off for one section of road - additional guideposts used at this location..	10. Minor	Low	Install additional guideposts on corners.	-	IMG_1921.jpg	145.739029	-41.0389252	394011.625	5456156.03	<a href="#">View Photo</a>	<a href="#">View Location</a>
43	Old Mount Hicks Road	Mount Hicks Road	Intersection (northern)	12/11/2019	Sealed	Give way signage, centreline and hold line linemarking present. Y intersection with minor road on downhill approach to major road. S1SD right 100m, left 170m. Both due to geometry. Outdated style of side road intersection on corner warning signage on Mount Hicks Road.	8. Feeder	Low	Install advance give way / T intersection beyond a curve warning signage. Replace side road intersection on corner warning signage on Mount Hicks Road with current signage as per AS 1742. Consider realigning road to square up intersection to a T intersection.	-	IMG_1918.jpg	145.744843	-41.0331497	394491.097	5458804.238	<a href="#">View Photo</a>	<a href="#">View Location</a>
44	Old Mount Hicks Road	Mount Hicks Road	Intersection (southern)	12/11/2019	Sealed	No linemarking or signage. Poor delineation on approach. S1SD right 170m (geometry), left 250m+	8. Feeder	Low	Linemark hold line and centreline on minor road. Install advance T intersection signage.	-	IMG_1923.jpg	145.744171	-41.050603	394402.593	5454859.203	<a href="#">View Photo</a>	<a href="#">View Location</a>
45	Seabrook Road	Mount Hicks Road	Intersection	12/11/2019	Sealed	Give way, advance give way and advance T intersection signage and hold line and centreline linemarking present. S1SD left 250m+ right 160m (geometry)	8. Feeder	Low	Consider installing a side road intersection advance warning sign on Mount Hicks Road north of the intersection.	-	IMG_1952.jpg	145.745712	-41.0519088	394594.084	5454723.009	<a href="#">View Photo</a>	<a href="#">View Location</a>
46	Mount Hicks Road	Seabrook Road	Taylor's Road	12/11/2019	Sealed	RRPMS used on centreline, some appear to be yellow, some white. Power pole on outside of curve just south of Atkens Road, property access other side of this, risk of it being struck.	8. Feeder	Low	Install reflector / hazard marker signage on power pole. Remove any white RRPMS and replace with white.	-	IMG_1980.jpg	145.741821	-41.067234	394291.637	5453016.738	<a href="#">View Photo</a>	<a href="#">View Location</a>
47	Atkens Road			12/11/2019	Unsealed	Section with steep drop off on both sides. Narrow road - more signage needed. Big drop off past Rubbicks Road and tree on edge of road. Only services 1 or 2 houses.	10. Minor	Low	Install guide posts at close spacing along sections of road with drop offs nearby.	-	IMG_1974.jpg	145.731979	-41.0619698	393456.226	5453569.163	<a href="#">View Photo</a>	<a href="#">View Location</a>

Waratah-Wynyard Council - Rural Road Safety Audit																	
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	Road	Between															
		Road A	Road B														
48	Rubocks Road			12/11/2019	Unsealed	Narrow road but very minor (off of a minor road). No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
49	Atkens Road	Mount Hicks Road	Intersection	12/11/2019	Sealed	Crest before intersection on minor road. No signage or linemarking. SIDS right 230m, left 170m	8. Feeder	Low	Install advance warning T intersection signage on minor road. Install advance warning side road intersection signage on major road. Linemark intersection.	-	IMG_1976.jpg	145.742004	-41.0657234	394304.864	5453184.659	<a href="#">View Photo</a>	<a href="#">View Location</a>
50	Coates Road			12/11/2019	Unsealed	Drop offs on side of road - guide posts generally provided. Power pole very close to road (reflectorised). Bridge with guard rail with two bull nose terminals (curved for property accesses - retain) and two G.R.E.A.T. terminals. Narrow bridge signage provided but no hazard boards or no overtaking signage provided.	10. Minor	Low	Install bridge signage.	-	IMG_1992.jpg	145.744786	-41.0774289	394555.363	5451868.744	<a href="#">View Photo</a>	<a href="#">View Location</a>
51	Taylor's Road			12/11/2019	Unsealed	Sharp corners no signage (some guideposts), gully drop off both sides.	10. Minor	Low	Install additional guide posts on corners where insufficient and at locations with drops offs near the road.	-	IMG_2018.jpg	145.720901	-41.068934	392536.715	5452803.552	<a href="#">View Photo</a>	<a href="#">View Location</a>
52	Taylor's Road	Mount Hicks Road	Intersection	12/11/2019	Sealed	Intersection over crest on minor road, no notice of intersection. No linemarking or signage. SIDS left 120m, right 250m+	8. Feeder	Low	Install advance warning T intersection signage on minor road. Install advance warning side road intersection signage on major road to the left. Linemark intersection.	-	IMG_2027.jpg	145.733505	-41.0796828	393913.027	5451623.514	<a href="#">View Photo</a>	<a href="#">View Location</a>
53	Coates Road	Mount Hicks Road	Intersection	12/11/2019	Sealed	SIDS left 250m+, right 230m. No linemarking or signage.	8. Feeder	Low	Install advance warning T intersection signage on minor road.	-	IMG_2032.jpg	145.73436	-41.0790787	393883.86	5451692.731	<a href="#">View Photo</a>	<a href="#">View Location</a>
54	Mount Hicks Road	Taylor's Rod	Murchison Highway	12/11/2019	Sealed	Sections of guard rail with bull nose terminals, some with G.R.E.A.T. terminals. CAMs on corner. Corner and straight with steep drop off near Duffields Road. CAMS provided in one direction on corner near Taylor's Road but not in other direction. Through the township of Yolla (60km/h signposted) it was observed that the '40km/h school zone' signage was illuminated at Yolla District School and 'Children Crossing' flags were placed out on a pedestrian crossing location, despite no children being observed in the vicinity.	8. Feeder	High	Install CAMs on corner near Duffields Road (both directions). Install additional guideposts at reduced spacing along section of drop off near Duffields Road.	\$ 11,000	IMG_2062.jpg	145.726761	-41.1039848	393085.908	5448918.485	<a href="#">View Photo</a>	<a href="#">View Location</a>
55	Mount Hicks Road	Taylor's Rod	Murchison Highway	12/11/2019	Sealed	As above.	8. Feeder	Medium	There is risk that having children crossing flags out and signage illuminated all day, when no children are crossing the road will lead to motorists not being alert to when there actually are children present. It is recommended these controls only be used during times when children are present, to remain effective. Upgrade guard rail terminals to G.R.E.A.T. terminals, consider extending guard rail on corner north of Munnis Road when doing this. Install CAMs on corner near Taylor's Road (one direction only).	-	IMG_2053.jpg	145.72908	-41.0854416	393250.618	5450979.903	<a href="#">View Photo</a>	<a href="#">View Location</a>
56	Mount Hicks Road	Murchison Highway	Intersection	12/11/2019	Sealed	Advance warning give way and give way signage, splitter island. Linemarking at intersection faded. 60km/h zone on both roads. SIDS left 105m, right 105m+	5. State Highway	Low	Refresh linemarking, install hazard board.	-	IMG_2096.jpg	145.716324	-41.1252365	392244.253	5446546.358	<a href="#">View Photo</a>	<a href="#">View Location</a>
57	Duffields Road			12/11/2019	Unsealed	Two tight bends with limited guideposts. Low risk due to the very low traffic volumes (no through road servicing only a few properties).	10. Minor	Low	Install additional guide posts on the two tight corners.	-	IMG_2075.jpg	145.741592	-41.1039505	394331.241	5448940.384	<a href="#">View Photo</a>	<a href="#">View Location</a>
58	Duffields Road	Mount Hicks Road	Intersection	12/11/2019	Sealed	SIDS right 150m (corner - geometry), left 160m (corner, vegetation making this worse). No linemarking or signage. Drop on other side of the road. Trim trees on left to increase sight lines	8. Feeder	Medium	Install T-Intersection advance warning signage and hazard board. Coming down a hill to intersection from minor road, approach sight not ideal and power pole and steep drop off on opposite side of major road.	-	IMG_2086.jpg	145.727203	-41.1053314	393125.206	5448769.534	<a href="#">View Photo</a>	<a href="#">View Location</a>
59	Duffields Road	Mount Hicks Road	Intersection	12/11/2019	Sealed	As above.	8. Feeder	Low	Trim vegetation to improve SIDS to the left.	-	IMG_2078.jpg	145.727295	-41.1053658	393132.987	5448765.826	<a href="#">View Photo</a>	<a href="#">View Location</a>
60	Johnsons Road	Mount Hicks Road	Intersection	12/11/2019	Sealed	SIDS right (into 60km/h zone) 105m+ left 105m+ (into 60km/h zone). Give way signage and linemarking (on continuity). No hazard board, hold line or hold line. Centreline needs refreshing.	9. Local Access	Low	Refresh linemarking. Install advance warning give way signage.	-	IMG_2086.jpg	145.721497	-41.1176758	392686.181	5447392.1	<a href="#">View Photo</a>	<a href="#">View Location</a>
61	East Yolla Road	Murchison Highway	Intersection (southern)	12/11/2019	Sealed	SIDS left 220m (crest) SIDS right 260m+. Advance warning give way, give way signage and linemarking provided. Continuity lines plus 2 different hold lines.	5. State Highway	Low	Install hazard board, remove redundant hold line linemarking.	-	IMG_2099.jpg	145.692307	-41.1520309	390272.816	5443541.756	<a href="#">View Photo</a>	<a href="#">View Location</a>
62	East Yolla Road	Murchison Highway (southwest)	Sweetmans Road	12/11/2019	Sealed section	Guard rail with bull nose terminals. Tall culvert and drop off alongside road near Bens Road with only single guideposts on either side of road.	10. Minor	Low	Upgrade terminals to G.R.E.A.T. terminals. Install additional guideposts around culvert and alongside drop off.	-	IMG_2106.jpg	145.698715	-41.158086	390817.247	5443099.631	<a href="#">View Photo</a>	<a href="#">View Location</a>



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	Road	Between Road A	Road B														
63	East Yolla Road	Murchison Highway (southwest)	Sweetmans Road	12/11/2019	Unsealed section	Gravel road advisory signage provided at transition from sealed to unsealed. Two 90 degree corners after long sections of straight south of Bills Road. Some guideposts provided, however one corner just after a crest and property access continues straight - inadequate guidance through these corners. Limited guideposts on other corners some with drop offs, power poles and other hazards. Corner 450m west of Sweetmans Road going downhill, sharp with a power pole and drop off on outside. Guide posts provided here but could do with additional safety measures. Outdated modified T signage on East Yolla Road on approaches to Sweetmans Road. Road is trafficked by a school bus. Blind corner due to cutting. Blind corner due to shed on inside of corner. Drop off on edge of a corner but low traffic, low speed.	10. Minor	Medium	Install advance warning corner / turn signage for the two 90 degree corners. Install advance warning corner / turn signage and / or CAMs on corner west of Sweetmans Road.	-	IMG_2117.jpg	145.706436	-41.1680374	391484.803	5441782.485	<a href="#">View Photo</a>	<a href="#">View Location</a>
64	East Yolla Road	Murchison Highway (southwest)	Sweetmans Road	12/11/2019	Unsealed section	As above.	10. Minor	Low	Install additional guideposts on other corners. Update modified T intersection signage to current standard.	-	IMG_2124.jpg	145.713616	-41.1680941	392057.809	5443228.208	<a href="#">View Photo</a>	<a href="#">View Location</a>
65	Bons Road		(includes intersection with East Yolla Road)	12/11/2019	Unsealed	Very minor no through road (only services 2 properties, one very close to start of road). Power pole close to road and tight corner - could be improved with guideposts (only servicing one property at this point). Sight lines at intersection to East Yolla Road are good.	10. Minor	Low	Install guide posts at power pole and through S-bend.	-	IMG_2103.jpg	145.696152	-41.1680135	390602.076	5443104.462	<a href="#">View Photo</a>	<a href="#">View Location</a>
66	Bills Road		(includes intersection with East Yolla Road)	12/11/2019	Unsealed	Big culvert/wall drop but only servicing 2 properties (no through road). 4 guide posts on it. Sight lines at intersection to East Yolla Road are good. Intersection configured as a modified T / Y intersection. Not clear from Bills Road that you must give way. (Photo of culvert, not of intersection)	10. Minor	Low	Install Give Way signage on Bills Road and edgeline linemarking on East Yolla Road around corner.	-	IMG_2110.jpg	145.701218	-41.1683167	391027.649	5443076.934	<a href="#">View Photo</a>	<a href="#">View Location</a>
67	Sweetmans Road		(includes intersection with East Yolla Road)	12/11/2019	Unsealed	Power pole that is very close to road (less than 1m). Minor no through road off of a minor road - very low traffic volumes. Approach to intersection with East Yolla Road is steep, but give way sign and linemarking provided (Minor / Minor intersection). Sight to left at intersection impacted by road geometry - intersection warning signage provided on major road - adequate for the anticipated volumes.	10. Minor	Low	Delineate power pole.	-	IMG_2132.jpg	145.73111	-41.1609361	393527.038	5443711.482	<a href="#">View Photo</a>	<a href="#">View Location</a>
68	East Yolla Road	Sweetmans Road	Murchison Highway (northeast)	12/11/2019	Sealed	Visibility of corner at Sweetmans Road intersection could be improved with linemarking. Sign from north at this intersection is ok now but make sure vegetation doesn't get in its way. Steep gully drop offs on both sides of road - few guide posts here, could add more.	10. Minor	Low	Add edgeline linemarking around corner at Sweetmans Road intersection. Trim vegetation regularly around signage north of Sweetmans Road intersection. Add guideposts along section of steep gully drop off.	-	IMG_2139.jpg	145.73291	-41.1423688	393664.287	5444661.459	<a href="#">View Photo</a>	<a href="#">View Location</a>
69	East Yolla Road	Murchison Highway	Intersection (northern)	12/11/2019	Sealed	Linemarking worn, give way signage present. SISD right 250m+, left 250m+.	5. State Highway	Low	Install advance warning give way and hazard board signage. Refresh linemarking.	-	IMG_2148.jpg	145.742035	-41.1266681	394403.302	5446526.603	<a href="#">View Photo</a>	<a href="#">View Location</a>
70	Mount Myrtle Road			12/11/2019	Unsealed	Drop off on side. Some guide posts there. Steep but low risk.	10. Minor	Low	Install additional guideposts along steep drop off.	-	IMG_2151.jpg	145.748993	-41.163733	394977.303	5447237.186	<a href="#">View Photo</a>	<a href="#">View Location</a>
71	Mount Myrtle Road	Murchison Highway	Intersection	12/11/2019	Unsealed	Intersection unsealed no lines or signs. SISD left 250m+ right 110m (vegetation impacting this slightly)	5. State Highway	Low	Install advance warning give way, give way and hazard board signage. Trim vegetation to the right from intersection to improve sight and install advance warning side road intersection signage on major road for approach from the right.	-	IMG_2155.jpg	145.750885	-41.169837	395137.112	5447171.682	<a href="#">View Photo</a>	<a href="#">View Location</a>
72	South Elliot Road			12/11/2019	Mixed (sealed and unsealed)	Tight bend with no guide posts. Corners with a drop off on outside - limited guideposts. Large culvert hole in cutting right on edge of road. Big drop offs. Corner with driveway continuing straight - poor delineation. No through road and low traffic, but have had some crashes on this road in the past 5 years.	10. Minor	Medium	Install (additional) guideposts on corners, near drop offs and hazards and to delineate road from driveways.	-	IMG_2170.jpg	145.757294	-41.1245003	395682.311	5446677.905	<a href="#">View Photo</a>	<a href="#">View Location</a>
73	South Elliot Road	Murchison Highway	Intersection	12/11/2019	Sealed	Give way signage and linemarking present. SISD left 200m right 200m	5. State Highway	Low	Install advance warning give way, give way and hazard board signage.	-	IMG_2174.jpg	145.757035	-41.1175385	395725.1	5447451.6	<a href="#">View Photo</a>	<a href="#">View Location</a>
74	Shepherds Lane			12/11/2019	Unsealed	Short, straight, no through road, guide posts used. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
75	Shepherds Lane	Murchison Highway	Intersection	12/11/2019	Sealed	Linemarking faded, needs refreshing. Give way sign present. SISD right 250m+ left 250m+	5. State Highway	Low	Refresh linemarking. Install advance warning give way and hazard board signage.	-	IMG_2177.jpg	145.762796	-41.1115837	395120.457	5448118.433	<a href="#">View Photo</a>	<a href="#">View Location</a>
76	Walkers Lane			12/11/2019	Unsealed	Cutting blind corners. Some steep crossfall and drop offs. Guideposts used on corners. Tree stumps in clear zone. Minor no through road.	10. Minor	Low	Remove tree stumps within clear zone. Consider additional guideposts on some corners. Assess crossfall and re-grade if too steep.	-	IMG_2186.jpg	145.772537	-41.1157188	395948.159	5447670.99	<a href="#">View Photo</a>	<a href="#">View Location</a>

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	Road	Between Road A	Road B														
77	Walkers Lane	Murchison Highway	Intersection	12/11/2019	Sealed	Linemarking faded, needs refreshing. Give way sign present. S1SD right 250m+ left 250m+	5. State Highway	Low	Refresh linemarking. Install advance warning give way and hazard board signage.	-	IMG_2189.jpg	145.764114	-41.1116104	396234.52	5448117.067	<a href="#">View Photo</a>	<a href="#">View Location</a>
78	Buggs Lane			12/11/2019	Unsealed	Very large culvert headwall drop off (x4) on downhill ditch. 90 degree corner with limited guide posts. Bridge with bull nose terminals. Limited guideposts on corners. Y intersection with Franks Lane. Steep drop to a dam. Big culvert crossing - has guideposts.	10. Minor	Low	Consider re-grading around culvert endwalls to soften angle of cuttings if struck by vehicles and / or installing an additional guideposts on each. Replace bull nose terminals with G.R.E.A.T. terminals. Install additional guideposts on corners where insufficient.	-	IMG_2206.jpg	145.784561	-41.1078072	397945.404	5448503.451	<a href="#">View Photo</a>	<a href="#">View Location</a>
79	Buggs Lane	Murchison Highway	Intersection	12/11/2019	Unsealed	S1SD right 150m (geometry, into 80km/h zone), 250m+ left. Linemarking and give way sign present. Intersection on a crest for Buggs Lane	5. State Highway	Low	Install advance warning give way and hazard board signage.	-	IMG_2218.jpg	145.770091	-41.1073112	396780.005	5448602.176	<a href="#">View Photo</a>	<a href="#">View Location</a>
80	Franks Lane			12/11/2019	Unsealed	Forms a Y-intersection / Modified T intersection with Buggs Lane - not clear who has priority. Large culvert drop, only a few guideposts around corners. No through road only servicing a small number of properties.	10. Minor	Low	Install give way signage on Franks Lane at the intersection with Buggs Lane. Install additional guideposts at corners and culverts.	-	IMG_2204.jpg	145.782089	-41.1061499	397736.921	5448411.493	<a href="#">View Photo</a>	<a href="#">View Location</a>
81	Petersons Lane			12/11/2019	Unsealed	Lots of crests at property accesses. Large culvert drop and tree in close proximity to road. Steep, no through road. Steepest section at end of road to one house. Some guideposts used. Steep gully crossing with only 2 guide posts.	10. Minor	Low	Delimit tree. Install additional guide posts along gully crossing at culvert drops.	-	IMG_2230.jpg	145.775865	-41.0961571	397160.263	5449946.328	<a href="#">View Photo</a>	<a href="#">View Location</a>
82	Petersons Lane	Murchison Highway	Intersection	12/11/2019	Sealed	Intersection S1SD left 250+, right only about 50m due to overgrown tree and car parked outside property. (80km/h zone) No linemarking or signage.	5. State Highway	Medium	Install advance warning give way, give way and hazard board signage and intersection side road linemarking. Install advance warning side road intersection signage on major road for approach from the right. Trim vegetation to improve sight lines and advise residents not to park cars in location that obstructs S1SD (900 Murchison Highway).	-	IMG_2234.jpg	145.776947	-41.0963097	397286.155	5449830.890	<a href="#">View Photo</a>	<a href="#">View Location</a>
83	Reids Road			12/11/2019	Unsealed	Two very big gully crossings. Guideposts used well, very steep and narrow, and potholes on first crossing.	10. Minor	Low	Regrade road to fix potholes (minor).	-	IMG_2236.jpg	145.6116	-41.0569676	400141.871	5454016.666	<a href="#">View Photo</a>	<a href="#">View Location</a>
84	Reids Road	Murchison Highway	Intersection	12/11/2019	Sealed	S1SD right 180m (inside of curve), left 250m (80km/h zone). No linemarking or signage.	5. State Highway	Low	Install advance warning give way, give way and hazard board signage and intersection side road linemarking.	-	IMG_2246.jpg	145.814087	-41.0592461	400351.272	5453968.595	<a href="#">View Photo</a>	<a href="#">View Location</a>
85	Haywoods Lane			12/11/2019	Sealed	Kerbed on one side. Residential, low speed environment. One gully crossing but 2m or so from road to drop so better than most locations and kerb on one side through this section. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
86	Haywoods Lane	Murchison Highway	Intersection	12/11/2019	Sealed	S1SD left 250m+ right 85m (Murchison Highway on a crest here, in an 80km/h zone). Give way sign, linemarking faded.	5. State Highway	Medium	Refresh linemarking. Install advance warning give way and hazard board signage. Install advance warning side road intersection signage on major road for approach from the right.	-	IMG_2260.jpg	145.816544	-41.0578842	400555.670	5454142.59	<a href="#">View Photo</a>	<a href="#">View Location</a>
87	Willis Street			12/11/2019	Sealed	Short, straight, residential environment. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
88	Willis Street	Murchison Highway	Intersection	12/11/2019	Sealed	Intersection S1SD right 170m, left 250m+ (80km/h zone) Linemarking needs refreshing, give way sign present.	5. State Highway	Low	Refresh linemarking. Install advance warning give way and hazard board signage.	-	IMG_2264.jpg	145.822388	-41.0542908	401041.367	5454548.153	<a href="#">View Photo</a>	<a href="#">View Location</a>
89	Cook Street			12/11/2019	Sealed	Short, straight, residential environment. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
90	Back Cam Road	Murchison Hwy	Intersection	12/11/2019	Sealed	S1SD 210m right 250m left (80km/h zone) Linemarking and give way signage provided. Cross Road intersection with Old Cam Road	5. State Highway	Low	Install advance warning give way signage.	-	IMG_2266.jpg	145.836761	-41.0508881	402244.163	5454942.107	<a href="#">View Photo</a>	<a href="#">View Location</a>

Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between															
		Road A	Road B														
91	Back Cam Road			12/11/2019	Mixed (sealed and unsealed)	Sealed section (north): Kerbed road at northern end - residential environment. Bridge with guard rail with bull nose terminals. Outdated style of advance warning side road signage. Many trees close within the clear zone on both sides of the road - particularly around properties 110, 118 Back Cam Road (Identified Site by Council). Sight distance for these two properties of interest: Property No.110, S1SD 110 left and 150m right. No problems (60km zone). Better than most. Property No.118, S1SD 50m to left due to big tree (2) and 100m to right Guard rail around corner with bull nose terminals. Fence blocking sight around a corner. CAMs on big corner. Steep drop but lots of trees in the way. Deep gully cutting. Lots of corners that should have CAM minimum or guardrail (but showing as minor road). Unsealed section (south): Deep gully cutting, limited guideposts. Power poles very close to road.	10. Minor	Medium	Upgrade advance warning side road signage to current standard. Provide the appropriate bridge signage as per AS 1742. Upgrade bull nose terminals to G.R.E.A.T. terminals. Install additional guideposts on corners and for gully crossings. Consider removing vegetation left of property 118 to improve property access sight.	-	IMG_2353.jpg	145.826614	-41.0742035	401426.242	5452342.352	View Photo	View Location
92	Retikes Road			12/11/2019	Sealed	Minor, partly a 40km/h zone - residential.  Intersection with Back Cam Road: S1SD right 50m (downhill), left 230m. (60km/h zone) Linemarking and give way signage present. 50km, rural residential environment.	10. Minor	Low	Install advance warning give way signage.	-	IMG_2276.jpg	145.832291	-41.0527153	401671.223	5454734.244	View Photo	View Location
93	Alberts Road			12/11/2019	Sealed	Intersection with Back Cam Road: S1SD right is 154m (could take out tree to improve) left is 200m (still in 60km/h zone) Give way signage and linemarking present.	10. Minor	Low	Install advance warning give way signage.	-	IMG_2294.jpg	145.82959	-41.0577202	401651.695	5454175.589	View Photo	View Location
94	Maxs Road			12/11/2019	Sealed	Trees and power poles on outside of corner - limited guideposts. Dead end minor road off of another minor road - low risk.  Intersection with Back Cam Road: Give way signage and linemarking. S1SD 150m right 190m left (60km/h zone)	10. Minor	Low	Install additional guideposts on outside of corner. Install advance warning give way signage.	-	IMG_2307.jpg	145.825897	-41.0558836	401353.571	5453265.167	View Photo	View Location
95	Viewich Road			12/11/2019	Unsealed	Power pole in close proximity to road. Dead end minor road off of another minor road - low risk.	10. Minor	Low	Delineate power pole.	-	IMG_2335.jpg	145.814407	-41.0762138	400403.771	5452105.307	View Photo	View Location
96	Back Cam Road	Back Cam Link Road	Intersection	12/11/2019	Sealed	S1SD 50m right (vegetation and geometry) 150m left. Short section of road to the right, only services a few properties, low risk. Splitter island, give way signage and linemarking.	10. Minor	Low	Install advance warning give way signage. Trim vegetation to improve sight to the right (minor, unsealed road).	-	IMG_2379.jpg	145.80684	-41.0806122	399825.975	5451610.418	View Photo	View Location
97	Back Cam Link Road			12/11/2019	Sealed	Bridge with guard rail with bull nose terminals - curved due to geometry of road / environment - retain existing. Identified site by Council - Very steep drop off on outside of corner (narrow verge)- Already have advisory steep incline and turn/speed signage - need more safety controls.	10. Minor	High	Install guard rail (approx. 175m) with G.R.E.A.T. terminals (noting that there is limited space in verge to install). Excavate into cutting face to widen road.	\$ 192,000	IMG_2390.jpg	145.805405	-41.0784888	399852.518	5451731.635	View Photo	View Location
98	Back Cam Link Road	Hoares Lane	Intersection	12/11/2019	Sealed	S1SD right 130m, left (no through road) 130m (60km road). Give way signage and hazard board present.	10. Minor	Low	Install advance warning give way signage.	-	IMG_2407.jpg	145.805756	-41.0787195	399882.357	5451706.208	View Photo	View Location
99	Hoares Lane			12/11/2019	Sealed	Guard rail with bull nose terminal on corner.	10. Minor	Low	Upgrade bull nose terminals to G.R.E.A.T. terminals.	-	IMG_2408.jpg	145.805237	-41.0782127	399836.467	5451872.885	View Photo	View Location
100	Hoares Lane	Murchison Hwy	Intersection	12/11/2019	Sealed	S1SD right 250m+, left and right Give way signage and linemarking present.	5. State Highway	Low	Install advance warning give way and hazard board signage.	-	IMG_2413.jpg	145.794556	-41.0782863	399736.257	5452074.382	View Photo	View Location
101	Daytons Lane			12/11/2019	Unsealed	Minor no through road off of Murchison Highway. 90 degree bend with limited guideposts. Very steep, very close drop off into Maldon Creek - high risk location, however only servicing 3 properties past this point - so very low traffic volumes. Guard rail with G.R.E.A.T. terminals recently installed here.	10. Minor	Medium	Install guard rail with G.R.E.A.T. terminals along section of drop off into creek, or at least install additional guide posts along this length.	-	IMG_2439.jpg	145.790097	-41.0944405	398893.546	5450060.801	View Photo	View Location
102	Daytons Lane	Murchison Hwy	Intersection	12/11/2019	Sealed	No signage or linemarking. S1SD 250m+ left and right	5. State Highway	Low	Install advance warning give way, give way and hazard board signage.	-	IMG_2458.jpg	145.783691	-41.0808018	397844.455	5450861.298	View Photo	View Location
103	Gladwells Lane			12/11/2019	Unsealed	Short, straight, unsealed road providing access for one property. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
104	Village Lane	Murchison Hwy	Intersection	12/11/2019	Sealed	S1SD 250m right, 150m left (crest). Linemarking and give way signage present. Intersection just over crest on Village Road.	5. State Highway	Low	Install advance warning give way, give way and hazard board signage.	-	IMG_2464.jpg	145.796967	-41.0854645	399922.269	5453275.233	View Photo	View Location



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	Road	Between Road A	Road B														
105	Doctors Road	Village Lane	Intersection	12/11/2019	Sealed	No signage or linemarking. S1SD 130m right, 50m left (to Murchison Hwy intersection at top of crest - can't improve, but low entry speed from here).	9. Local Access	Low	Install advance warning give way, give way and hazard board signage and linemarking.	-	IMG_2465.jpg	145.79631	-41.0553419	398806.833	5453291.412	<a href="#">View Photo</a>	<a href="#">View Location</a>
106	Doctors Road			12/11/2019	Unsealed	Pavement lumpy. Tight corner with no guideposts. Road appears to be undergoing construction works (grader sitting at end of road).	10. Minor	Low	Re-grade pavement (if not in the process already). Install guideposts on corner.	-	IMG_2474.jpg	145.798355	-41.0574376	399026.967	5454171.237	<a href="#">View Photo</a>	<a href="#">View Location</a>
107	Village Lane			12/11/2019	Sealed	Tight corner has signage and centreline, (25kmh advisory) could have more guideposts. Chevron on corner facing the wrong way.	9. Local Access	Low	Add guideposts on corner.	-	IMG_2522.jpg	145.777802	-41.0560837	397297.369	5454297.574	<a href="#">View Photo</a>	<a href="#">View Location</a>
108	Little Village Lane			12/11/2019	Sealed	Residential street. Poles power. Generally pretty good. One or more guideposts on corner are the wrong way around. Some corners with limited guideposts.	10. Minor	Low	Add guide posts on corner.	-	IMG_2487.jpg	145.7883	-41.0549757	398193.26	5453322.745	<a href="#">View Photo</a>	<a href="#">View Location</a>
109	Newlands Road			12/11/2019	Sealed	Shit, straight (one corner with guideposts), sealed, well kept road. Intersection with Little Village Lane (minor with minor). S1SD 50m right, 100m left, both due to vertical geometry - low risk area. No signage or linemarking.	10. Minor	Low	Install advance warning T-intersection signage.	-	IMG_2498.jpg	145.772781	-41.0580923	398894.199	5452958.524	<a href="#">View Photo</a>	<a href="#">View Location</a>
110	Hardys Road			12/11/2019	Sealed	Shit, straight (one corner with guideposts), sealed, well kept road. Some power poles close but only 100m long so cant go fast enough to do damage. Intersection with Little Village Lane (minor with minor). S1SD left 100m (crest) an right 100m (bend) - in residential 50km environment. No signage or linemarking.	10. Minor	Low	Install advance warning T-intersection signage.	-	IMG_2506.jpg	145.782928	-41.059551	397748.001	5452807.426	<a href="#">View Photo</a>	<a href="#">View Location</a>
111	Village Lane	Seabrook Road	Intersection	12/11/2019	Sealed	S1SD 70m left 80m right. Intersection is almost on to of crest (80km zone) bad place for intersection. Linemarking good (looks new). Advance warning T-intersection, give way and hazard board signage. No issues with intersection approach on Village Lane.	8. Feeder	-	-	-	IMG_2529.jpg	145.777954	-41.050251	397301.07	5454945.295	<a href="#">View Photo</a>	<a href="#">View Location</a>
112	Dallas Road			12/11/2019	Unsealed	Short unsealed no through road only servicing a few properties, should be a minor road classification? Double 90 deg bend with nothing - however the road only services one property from here and is a narrow, low speed environment.	9. Local Access	Low	Add guide posts on two 90 degree corners.	-	IMG_2532.jpg	145.779312	-41.0455894	397407.955	5455464.365	<a href="#">View Photo</a>	<a href="#">View Location</a>
113	Dallas Road	Seabrook Road	Intersection	12/11/2019	Unsealed	S1SD 50m both ways (next to Village Lane intersection on Seabrook Road. Linemarking is good here (new).	8. Feeder	Medium	Install advance warning give way signage.	-	IMG_2534.jpg	145.779442	-41.0466483	397341.145	5455012.747	<a href="#">View Photo</a>	<a href="#">View Location</a>
114	Seabrook Road	Village Lane and Dallas Road	Intersection	12/11/2019	Sealed	Two local access side roads in close proximity, poor S1SD on top of crest for both. Speed limit lowered to 60km/h here but a high risk location, particularly if speeding (high speed environment despite the speed limit).	8. Feeder	High	Install advance warning 'staggered T intersection' signage and 'crest' signage in both directions on approach to this intersection.	\$ 5,000	IMG_2560.jpg	145.78331	-41.0509453	397752.265	5454874.48	<a href="#">View Photo</a>	<a href="#">View Location</a>
115	Seabrook Road	Coopers Lane	Lancaster Road	12/11/2019	Sealed	Three tight corners eastern end (between Village Lane and Somerset) some advisory speed signage present but no CAMs - 2 night time crashes at one of these corners. Gully crossing, no guideposts. 60km/h zone for some of the road.	8. Feeder	High	Add guideposts at gully crossings. Install CAMs around the three tight corners at eastern end.	\$ 22,000	IMG_2643.jpg	145.795013	-41.0463257	398728.694	5455400.971	<a href="#">View Photo</a>	<a href="#">View Location</a>
116	Lancaster Road			12/11/2019	Unsealed	Narrow, low speed environment, no through road, only services one house, more of a driveway, intersection sight OK and reduced speed limit on the major road. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
117	Frenchs Road			12/11/2019	Unsealed	Gully drop with a couple guide posts. Trees close to the road. Very minor road, 3 residents.	10. Minor	Low	Install additional guide posts around gully drop off and close trees.	-	IMG_2570.jpg	145.769974	-41.0501747	396630.309	5454944.309	<a href="#">View Photo</a>	<a href="#">View Location</a>
118	Frenchs Road	Seabrook Road	Intersection	12/11/2019	Sealed	S1SD left 210m right 100m (veg in the way, should trim this back)	8. Feeder	Low	Install advance warning T-intersection signage. Trim vegetation to improve S1SD	-	IMG_2572.jpg	145.770248	-41.0468352	396652.805	5454982.323	<a href="#">View Photo</a>	<a href="#">View Location</a>
119	Coopers Lane			12/11/2019	Sealed	Guard rail with bull nose terminals. Good use of guide posts on corners. Mount Hicks Road end seems to have continuous single line centreline along most of the road - this may miss-represent sections of road where it is unsafe to overtake. Very large drop off north of Seabrook Road. Tight corners with advisory speed signage - warrant for CAMs also. Bridge with bull nose terminals, width ok as to not require signage.	8. Feeder	Medium	Upgrade bull nose terminals to G.R.E.A.T. terminals. Consider re-linemarking centreline with use of broken and unbroken sections of linemarking representative of where it is unsafe to overtake. Install CAMs on tight corners with advisory speed signs warrant CAMS also as per AS 1742. Install additional guide posts along drop off section.	-	IMG_2632.jpg	145.764252	-41.0268995	396109.203	5457777.824	<a href="#">View Photo</a>	<a href="#">View Location</a>
120	Andersons Road	Coopers Lane	Intersection	12/11/2019	Sealed	S1SD 50m left (trim vegetation - to Andersons Road (no through road) but bad sight. 100m right (crest). Advance warning T intersection, give way signage, splitter island and linemarking. Ok other than veg.	8. Feeder	Low	Trim vegetation to improve S1SD to the left.	-	IMG_2604.jpg	145.761597	-41.0232582	395683.892	5457922.452	<a href="#">View Photo</a>	<a href="#">View Location</a>
121	Andersons Road			12/11/2019	Unsealed	Minor, no through road, trees (lots), power poles, culverts, - usual clear zone issues. Some guide posts used.	10. Minor	Low	Install additional guide posts, particularly near to close trees.	-	IMG_2612.jpg	145.760437	-41.0277176	395703.397	5457426.013	<a href="#">View Photo</a>	<a href="#">View Location</a>



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	Road	Between Road A	Road B														
122	Ross Grange Road			12/11/2019	Unsealed	Some guide posts on corners. Only services a few houses. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
123	Ross Grange Road	Coopers Lane	Intersection	12/11/2019	Sealed	Intersection has give way sign, hazard board and linemarking. S1SD left 100m (trim veg to get 120m) 40m to the right (crest) - advance warning side road signage provided already on Coopers Lane.	8. Feeder	Medium	Install advance warning stop signage and replace existing give way signage and linemarking with stop signage and stop bar. Trim vegetation to improve S1SD to the left - little improvement.	-	IMG_2648.jpg	145.765182	-41.0291481	395194.852	5457272.854	<a href="#">View Photo</a>	<a href="#">View Location</a>
124	Coopers Lane	Seabrook Road	Intersection	12/11/2019	Sealed	Feeder road and feeder road intersection. Hazard board, give way sign, and intersection linemarking present. Advance warning side road intersection signage and advisory speed signage already provided also on Seabrook Road here. Serious injury (high time) crash occurred here last year. S1SD 160m to right, 90m to left (geometry - curve behind cutting).	8. Feeder	Medium	Install advance warning give way signage. Consider excavating cutting to improve sight to the left or addition additional intersection warning signage on Seabrook Road east of the intersection, possibly CAMs for the Seabrook Road corner..	-	IMG_2654.jpg	145.7677	-41.048987	395436.868	5455108.788	<a href="#">View Photo</a>	<a href="#">View Location</a>
125	Seabrook Road	Mount Hicks Road	Coopers Lane	12/11/2019	Sealed	Guard rail across a bridge with 3 of 4 terminals bull nose, however these are curved to protect side roads - retain. Reasonable use of guide posts on some corners, others can be improved. Trees and drop offs.	8. Feeder	Low	Install additional guide posts on some corners which require shorter spacing in accordance with AS 1742.	-	IMG_2659.jpg	145.764191	-41.0524712	395147.915	5454882.495	<a href="#">View Photo</a>	<a href="#">View Location</a>
126	Tippetts Road			12/11/2019	Unsealed	Power poles close to road- reflector to add. On outside of curve. Tight corners with limited guide posts but mostly towards end of (no though) road with only a few properties services.	10. Minor	Low	Delineate power poles	-	IMG_2664.jpg	145.759439	-41.0530128	395497.313	5454813.112	<a href="#">View Photo</a>	<a href="#">View Location</a>
127	Tippetts Road	Seabrook Road	Intersection	12/11/2019	Sealed	No warning, no signs or linemarking, just over a crest on Tippetts Road - bad ASD. S1SD left 165m (improve by trimming trees), right 250m+	8. Feeder	Low	Install advance warning T intersection signage with distance indicator. Trim vegetation to improve S1SD.	-	IMG_2673.jpg	145.75647	-41.0528564	395498.671	5454830.512	<a href="#">View Photo</a>	<a href="#">View Location</a>
128	Nunns Road	Western section - sealed		12/11/2019	Sealed	Four 90 degree bends in a row at western end of road. Western-most of these has 25km/h advisory speed signage, no other signage. Guard rail with bull nose terminals over bridge (adequate bridge signage provided for narrow bridge on tight bend) but curved out with the geometry of the road - retain. Another corner with no signage. S bend with few guideposts. Trees in steep drop off between bends.	10. Minor	Medium	Install advisory corner / turn, speed and CAMs signage on tight bends at western end of road. Install guide posts along sections of drop off.	-	IMG_2686.jpg	145.737747	-41.086514	393985.668	5450500.927	<a href="#">View Photo</a>	<a href="#">View Location</a>
129	Nunns Road	Central section - unsealed		12/11/2019	Unsealed	Warning signage provided at transition from sealed to unsealed pavement. Bridge with guard rail featuring G.R.E.A.T. terminals and correct signage. Tight corners with limited guideposts. A 90 degree bend with no guideposts. A 90 degree bend with a turn sign but no guideposts on outside.	10. Minor	Medium	Install advisory corner / turn signage and CAMs on necessary corners, guideposts on other corners.	-	IMG_2721.jpg	145.788631	-41.07938	395563.223	5451700.511	<a href="#">View Photo</a>	<a href="#">View Location</a>
130	Nunns Road	Eastern section - sealed		12/11/2019	Sealed	35km windy road advisory sign present - some guideposts provided - could add more - need cams here, lots of bends in a row almost 90 degree and very tight / vertical drop too.	10. Minor	Medium	Install advisory corner / turn signage and CAMs on necessary corners, guideposts on other corners.	-	IMG_2724.jpg	145.77565	-41.0831718	397156.754	5451287.87	<a href="#">View Photo</a>	<a href="#">View Location</a>
131	Nunns Road	Murchison Highway	Intersection	12/11/2019	Sealed	Give way signage and linemarking present (faded). S1SD right 250m+, left 235m. Intersection around corner ant at top of crest from minor road.	5. State Highway	Low	Install advance warning give way signage and hazard board. Refresh linemarking at intersection.	-	IMG_2732.jpg	145.788507	-41.0844116	397988.643	5451161.516	<a href="#">View Photo</a>	<a href="#">View Location</a>
132	Nunns Road	Mount Hicks Road	Intersection	12/11/2019	Sealed	S1SD 200m right 100m left (crest in road) Give way signage and linemarking present. Linemarking faded.	8. Feeder	Low	Refresh linemarking at intersection and install advance warning give way signage. Consider side road intersection advance warning signage on Mount Hicks Road	-	IMG_2054.jpg	145.727844	-41.0880861	393151.052	5450867.029	<a href="#">View Photo</a>	<a href="#">View Location</a>
133	Deep Creek Road	Mount Hicks Road	Intersection	12/11/2019	Sealed	Linemarking faded. Give way sign and side road intersection advance warning signage provided. S1SD 160m right 160m left. Improve right with tree trimming, left is due to geometry.	8. Feeder	Low	Refresh linemarking at intersection and provide advance warning give way signage.	-	IMG_2760.jpg	145.725479	-41.0865445	392971.044	5449409.852	<a href="#">View Photo</a>	<a href="#">View Location</a>
134	Deep Creek Road	Southern section - Sealed		12/11/2019	Sealed	Large drop off on lone side of road just north of Mount Hicks Road - limited guideposts. Big culvert for river - reasonable verge width before drop but only single guideposts.	10. Minor	Low	Install additional guideposts along sections with drop offs, consider hazard marker signs alongside large culvert.	-	IMG_2777.jpg	145.71904	-41.0981638	392424.828	5449775.012	<a href="#">View Photo</a>	<a href="#">View Location</a>
135	Deep Creek Road	Central section - Unsealed		12/11/2019	Unsealed	Sections with drop off on side of road. Trees, one tree in forest very close. Forest road - generally fairly good for a minor road. Guideposts at fairly regular spacings.	10. Minor	Low	Consider cutting down tree that is very close to road (see photo) or delineate / add hazard marker signage.	-	IMG_2799.jpg	145.709091	-41.0722427	391549.931	5452420.505	<a href="#">View Photo</a>	<a href="#">View Location</a>
136	Deep Creek Road	Northern section - Sealed		12/11/2019	Sealed	Concealed entrance sign spun sideways. Steep drop off. Steep drop on corner - lots of guideposts there and good use of guideposts in general. Bend north of Aldersons Road lacking guideposts or other signage. Identified site - Deep Creek Road from Brownriggs Rd to Bass Highway - potential for linemarking.	10. Minor	Low	Rotate concealed entrance advance warning signage to face in the correct direction. Add guideposts, consider advance warning curve and or CAMs signage at bend north of Aldersons Road. Linemarking potential - wide enough and should be added on corner north of Aldersons (unbroken) - road would benefit more so from additional guideposts for the rest of the section from Brownriggs Road to Bass Highway.	-	IMG_2880.jpg	145.700943	-40.9984049	390745.011	5460485.367	<a href="#">View Photo</a>	<a href="#">View Location</a>
137	Wattle Hill Drive			12/11/2019	Sealed	Short straight residential street. No issues in the context of this rural road safety audit. Intersection with Deep Creek Road: S1SD right 210m, left 120m (limited by road geometry). (80km/h zone) No signage or linemarking.	10. Minor	Low	Install advance warning side road intersection signage on Deep Creek Road south of the intersection. Install advance warning T intersection signage and linemark intersection.	-	IMG_2832.jpg	145.697067	-41.080147	390433.282	5459535.705	<a href="#">View Photo</a>	<a href="#">View Location</a>

Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between	Road B														
138	Brownriggs Road			12/11/2019	Sealed	Property culvert headwalls. Ract is good.  Intersection with Deep Creek Road: No signage or linemarking. SISD right 200m, 180m to the left (80km/h zone)	10. Minor	Low	Install advance warning T intersection signage and linemark intersection.  If additional driveways added along street consider installing trafficable headwalls on any culvert crossings (comment to be applied to other rural residential environments).	-	IMG_2847.jpg	145.690289	-41.0031624	390359.813	5460073.399	<a href="#">View Photo</a>	<a href="#">View Location</a>
139	Aldersons Road			12/11/2019	Unsealed	Very minor road. No issues in the context of this rural road safety audit.  Intersection with Deep Creek Road: SISD 150m left and right (80km/h zone)	10. Minor	-	-	-	-	-	-	-	-	-	-
140	Minnies Road			12/11/2019	Unsealed	Pot holes in road. No official road sign, no linemarking no signage, gravel from side road onto Deep Creek Road.  Intersection with Deep Creek Road: SISD right 240m, left 150m (bend) (80km/h zone)	10. Minor	Low	Fix pot holes. Install advance T intersection warning signage. Install road name sign.	-	IMG_2874.jpg	145.701553	-41.0075493	390809.781	5459592.991	<a href="#">View Photo</a>	<a href="#">View Location</a>
141	Deep Creek Road	Bass Highway	Intersection	12/11/2019	Sealed	SISD right 250m+, left 250m+ Linemarking, advance warning and give way sign and splitter island all present. This intersection has had multiple crashes in last 5 years including a fatality.	5. State Highway	High	Consider installing rumble strip on approach to give way warning sign. Install large hazard board, remove large warning (yellow) signage and replace with a second give way sign on the splitter island - this warning sign makes it seem that the give way is ahead, not at this point.	\$ 12,000	IMG_2885.jpg	145.704254	-40.997879	391020.97	5460069.9	<a href="#">View Photo</a>	<a href="#">View Location</a>
142	Oldina Road	Bass Highway	Intersection	13/11/2019	Sealed	Give way signage and linemarking present. SISD 250m+ left and right. Road on other side of Oldina Road - see through effect. Six cross traffic crashes at this intersection in last 5 years, one of these serious.	5. State Highway	High	Add rumble strips and advance warning give way signage on approach. Consider installation of a splitter island to help with see through effect (not included in cost estimate).	\$ 10,000	IMG_2899.jpg	145.69657	-40.9901276	390614.198	5461524.553	<a href="#">View Photo</a>	<a href="#">View Location</a>
143	Oldina Road	Bass Highway	Change from 80km/h zone to 100km/h zone (south of Bass Highway)	13/11/2019	Sealed	Some embankment drop offs (only slight). Northern section is 80km/h and residential, then 100km and through a forest.	9. Local Access	Low	Add 'changing conditions' sub-signage to 100km/h speed limit signage.	-	IMG_2927.jpg	145.69454	-41.0034256	389372.155	5460029.38	<a href="#">View Photo</a>	<a href="#">View Location</a>
144	Timothy Drive			13/11/2019	Sealed	Corners without guideposts, but residential, low speed environment (80km/h signposted). Maybe some guideposts on the corners (some 90deg), but not essential.	9. Local Access	Low	Install guide posts on corners.	-	IMG_2916.jpg	145.690475	-40.9951591	389857.528	5460054.557	<a href="#">View Photo</a>	<a href="#">View Location</a>
145	Timothy Drive	Oldina Road	Intersection	13/11/2019	Sealed	No linemarking or signage, slight Y intersection and near a curve on Oldina Road. SISD right 250m+, left 100m (geometry) (80km zone).	9. Local Access	Medium	Install advance warning give way and give way signage on Timothy Road. Advance warning side road intersection signage on Oldina Road north of intersection. Consider realigning intersection to create a T intersection.	-	IMG_2918.jpg	145.695251	-40.9925461	390254.907	5461250.846	<a href="#">View Photo</a>	<a href="#">View Location</a>
146	Oldina Road	Change from 80km/h zone to 100km/h zone (northern end of road)	Property 867 Oldina Road	13/11/2019	Sealed	Northern end features lots of closely spaced guideposts, but further south they start to space out. Some corners likely need advisory curve signage. Can't travel at 100km/h. More tight corners - guideposts good, but add signage and centreline.  Tight bend in forest. Only some guideposts to assist. Multiple corners need the cutting out further in to provide curve widening and improve stopping sight distance through corner. Forestry trucks will take up a lot of the corner and these have steep drops on the embankment side. Really tight bend cutting into hill, need to cut into cutting further to widen road and increase sight stopping distance through corner. Steep drop off and trees on outside too. Multiple crashes (including numerous in poor lighting conditions) have occurred on this stretch of road in the last 5 years. Identified Site by Council - (710 to 867 Oldina Road) - Road seal about 5.5m wide. Vegetation encroaches into road also. Steep drop off, excessive superelevation on corners. Minimal guideposts through here too. No signage provided at curves but only some guideposts.	9. Local Access	High	Add centreline linemarking and RRPMS where road width permits. Install additional guideposts, advisory corner and speed signage and CAMs around corners where width is insufficient. Cut further into cuttings on inside of corners where road width and sight through the corner are restricted.	\$ 95,000	IMG_2964.jpg	145.678331	-41.0542717	388767.384	5454374.287	<a href="#">View Photo</a>	<a href="#">View Location</a>
147	Oldina Road	Property 867 Oldina Road	Lowries Road	13/11/2019	Sealed	Power pole close to road. Winding section north of Smarts Road should have winding signage and probably advisory speed signage. Identified Site by Council - 1001 & 1022 Low sight distances to traffic from property access - near Locketts Road - Agree (SISD left of property 1001 about 50m) but tree removal won't help much. Next to curve. Property 1022 SISD 63m right 90m left. Trimming bush won't help much here either.	9. Local Access	Medium	Delineate power pole close to road. Install advance warning winding road signage and additional guideposts on corners (and advisory speed signage) through section just north of Smarts Road. 1001 and 1022 property access (see identified sites). For properties 1001 and 1022 - trim vegetation back where practicable, but should also install advance warning concealed driveway signage from either direction.	-	IMG_3015.jpg	145.689785	-41.0671021	388230.174	5452631.563	<a href="#">View Photo</a>	<a href="#">View Location</a>
148	Locketts Road			13/11/2019	Unsealed	Tree stumps in clear zone. Few guideposts on 90 degree bend. Only servicing 2-3 properties where these items are. Generally good use of guideposts for very minor road.	10. Minor	Low	Remove / cut to ground tree stumps that are within the clear zone. Install additional guideposts on 90 degree bend.	-	IMG_3034.jpg	145.681854	-41.0733948	388263.812	5452258.369	<a href="#">View Photo</a>	<a href="#">View Location</a>
149	Locketts Road	Oldina Road	Intersection	13/11/2019	Sealed	No signage or linemarking. SISD right 220m, left 200m.	9. Local Access	Low	Install advance warning T intersection signage.	-	IMG_3044.jpg	145.670196	-41.0733757	388261.655	5452245.579	<a href="#">View Photo</a>	<a href="#">View Location</a>

Waratah-Wynyard Council - Rural Road Safety Audit																	
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	Road	Between Road A	Road B														
150	Smarts Road			13/11/2019	Mixed (sealed and unsealed)	Tight s-bend with 35 advisory - good, guideposts ok. 1km winding section (signposted) and reasonable guideposts - some corners tight and big steep drop offs. Guard rail with bull nose terminals on bridge (western bridge). CAMS on one corner but only 2 there (min should be 3). Second bridge (eastern) also with bull nose terminals - retain these ones for curves but no signage on bridge. Multi-cell culvert with 4 guideposts on it.	10. Minor	Medium	Add concealed driveway 300m signage just west of eastern bridge for house at top of crest west of eastern bridge (at start of unsealed section of road). Missing a CAM (of 3) - add. Replace guard rail with G.R.E.A.T. terminals and increase the length to the point of need on the eastern side of the bridge (western-most bridge). Install correct bridge signage (both bridges). Only one corner with CAMS (as big drop behind it) other corners should have them too for consistency. Consider additional guard rail on corners on decent down to western bridge (steep drop offs).	-	IMG_3148.jpg	145.695597	-41.0879135	390438.995	5450663.889	<a href="#">View Photo</a>	<a href="#">View Location</a>
151	Smarts Road	Deep Creek Road	Intersection	13/11/2019	Sealed	Give way signage and linemarking present. SISD right 50m, left 160m left (road geometry)	10. Minor	Medium	Install advance warning stop signage and replace existing give way signage and linemarking with stop signage and stop bar. Install advance warning side road intersection signage on Deep Creek Road.	-	IMG_3124.jpg	145.717346	-41.0949636	392280.818	5449905.05	<a href="#">View Photo</a>	<a href="#">View Location</a>
152	Smarts Hill Road			13/11/2019	Unsealed	Only 3 properties. Straight road. Ok. Intersection with Smarts Road: Y-Intersection - bad geometry, but is fully unsealed and very minor on minor - low risk site.	10. Minor	Low	Square intersection up, improve geometry (will require some earthworks and minor land acquisition).	-	IMG_3140.jpg	145.69928	-41.0939713	390761.676	5449990.054	<a href="#">View Photo</a>	<a href="#">View Location</a>
153	Smarts Road	Oldina Road	Intersection	13/11/2019	Sealed	No signage or linemarking. SISD 80m right and 140m left (road geometry)	9. Local Access	Medium	Install advance warning T intersection signage. Install advance warning side road intersection signage on Deep Creek Road.	-	IMG_3168.jpg	145.673615	-41.0825119	388596.841	5451235.736	<a href="#">View Photo</a>	<a href="#">View Location</a>
154	Lowries Road			13/11/2019	Mixed (sealed and unsealed)	Bridge with guard rail and bull nose terminals (retain for curve protection), most of bridge signage correct. Big curve with drop off. Guidepost but no signage. Signage provided for change from sealed to unsealed. Lack of guideposts on northern end of unsealed section through some sections of tight bends/vert geometry and steep drop offs.	10. Minor	Low	Install hazard marker signage on bridge. Install additional guideposts on corners and assess for advisory corner (and speed) signage.	-	IMG_3206.jpg	145.659302	-41.1003151	387414.956	5449240.914	<a href="#">View Photo</a>	<a href="#">View Location</a>
155	Baulds Hill Road			13/11/2019	Unsealed	Very minor, more of a track - no issues in the context of this rural road safety audit. Intersection with Lowries Road - Sight ok (minor on minor), no signage.	10. Minor	Low	Install advance warning T intersection signage.	-	IMG_3186.jpg	145.687864	-41.0852225	388108.528	5449817.041	<a href="#">View Photo</a>	<a href="#">View Location</a>
156	Lowries Road	Oldina Road	Intersection	13/11/2019	Sealed	No signage or linemarking SISD left 250m+, right 250m.	9. Local Access	Low	Install advance warning T intersection signage.	-	IMG_3247.jpg	145.672485	-41.0885468	388502.125	5450964.325	<a href="#">View Photo</a>	<a href="#">View Location</a>
157	Oldina Road	Lowries Road	Johnsons Road	13/11/2019	Sealed	90 degree turn and advisory speed signage and some guide posts. More guide posts and / or CAMS. Corners with no guideposts. Big corners - add CAMS / corner / advisory speed signs. One with drop off. Long section with tight bends and no signs.	9. Local Access	Medium	Install additional guide posts and winding road next 300m signage through this winding section, consider adding CAMs on some corners.	-	IMG_3269.jpg	145.678452	-41.1067696	389033.983	5448548.829	<a href="#">View Photo</a>	<a href="#">View Location</a>
158	Johnsons Road			13/11/2019	Sealed	Big corner - had turn and advisory speed sign, maybe add CAMs - drop off behind. Bridge with guard rail with 3 G.R.E.A.T. terminals, 1 bull nose terminal (providing paddock access - retain). Bridge signage good. Sign flipped around for 35km corner east of Dowlings Creek.	9. Local Access	Low	Add CAMs on tight corner with drop off on outside of curve. Rebate corner and 35km/h advisory speed signage to face correct direction.	-	IMG_3295.jpg	145.689255	-41.1223068	389967.049	5446637.758	<a href="#">View Photo</a>	<a href="#">View Location</a>
159	Stewarts Road			13/11/2019	Unsealed	Lacking guide posts on corners. Minor no through road only servicing a few properties. Low risk.	10. Minor	Low	Install additional guide posts on corners.	-	IMG_3316.jpg	145.701645	-41.1129837	390991.749	5447888.346	<a href="#">View Photo</a>	<a href="#">View Location</a>
160	Stewarts Road	Johnsons Road	Intersection	13/11/2019	Sealed	SISD 100m left (road geometry), 250m+ to right. Very wide - no linemarking or signage.	9. Local Access	Low	Install advance warning give way signage on Oldina Road. Install advance warning corner with side road intersection signage on Johnsons Road. Linemark the edge line of Johnsons Road through the intersection and	-	IMG_3310.jpg	145.702672	-41.1210709	391116.533	5446992.2	<a href="#">View Photo</a>	<a href="#">View Location</a>
161	Johnsons Road	Oldina Road	Intersection	13/11/2019	Sealed	SISD 50m right (road geometry - bad, however corner here on main road will slow approach speed) and 200m to left. Give way signage and linemarking present.	9. Local Access	Medium	Install advance warning give way signage. Install advance warning side road intersection signage on Oldina Road north of the intersection.	-	IMG_3352.jpg	145.678146	-41.1284692	389030.789	5446472.588	<a href="#">View Photo</a>	<a href="#">View Location</a>
162	Oldina Road	Johnsons Road	Takone Road	13/11/2019	Unsealed	Gully / creek crossing with 6 guideposts - ok. Tight bends - need more guideposts. Big culvert hole/wall in direction of travel x2.	10. Minor	Low	Install additional guideposts on corners where insufficient. Reshape cutting around culvert endwall to improve trafficability.	-	IMG_3362.jpg	145.676834	-41.1331748	388942.85	5445915.48	<a href="#">View Photo</a>	<a href="#">View Location</a>
163	Yard Road			13/11/2019	Unsealed	Big culvert (multi cell) only 2 old/dirty guideposts (x2). Add more, refresh old ones. Some potholes near other culvert. Intersection with Oldina Road: SISD right 130m, left 150m (fully unsealed intersection). Minor side road - low risk.	10. Minor	Low	Install additional guide posts at wide culvert crossings, replace old guide posts and fix pot holes at culvert crossing. Install advance warning T intersection signage.	-	IMG_3375.jpg	145.687088	-41.1353302	388126.802	5445363.686	<a href="#">View Photo</a>	<a href="#">View Location</a>
164	Oldina Road	Takone Road	Intersection	13/11/2019	Sealed	Hazard board and give way signage present, linemarking faded away. SISD right 110m (bend but some vegetation impacting also), 250m+ left	9. Local Access	Low	Install advance warning give way signage. Refresh linemarking. Trim vegetation to right to improve SISD.	-	IMG_3405.jpg	145.67218	-41.1480448	388577.19	5443958.735	<a href="#">View Photo</a>	<a href="#">View Location</a>



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	Road	Between Road A	Road B														
165	Takone Road	Oldina Road	Murchison Highway	13/11/2019	Sealed	Bridge with no signage and guard rail 4 bull nose terminals. Steep downhill bends. Guide posts present but need signage. Centreline linemarking but no RRPMS.	9. Local Access	Medium	Upgrade bridge terminals to G.R.E.A.T. terminals and install the required bridge signage.	-	IMG_3406.jpg	145.67366	-41.1483994	388701.988	5443921.24	<a href="#">View Photo</a>	<a href="#">View Location</a>
166	Takone Road	Oldina Road	Murchison Highway	13/11/2019	Sealed	As above.	9. Local Access	Low	Install corner and advisory speed signage where required. Install RRPMS on centreline.	-	IMG_3415.jpg	145.680462	-41.1517181	388781.833	5443569.098	<a href="#">View Photo</a>	<a href="#">View Location</a>
167	Takone Road	Murchison Highway	Intersection	13/11/2019	Sealed	SISD 220m right, 250m+ left. Give way signage, linemarking. Some small potholes to patch.	5. State Highway	Low	Install advance warning give way signage and hazard board, linemark intersection. Patch potholes.	-	IMG_3418.jpg	145.690445	-41.1524887	390117.339	5443468.584	<a href="#">View Photo</a>	<a href="#">View Location</a>
168	Brackendale Road			13/11/2019	Unsealed	Tight 90 degree bend, steep drop off, some guideposts - very steep and abrupt when driving towards Murchison Highway - needs signage. Bridge with good signage. Guard rail with 3 G.R.E.A.T. terminals and one curved bull nose terminal (retain, allowing side gate access) - bridge good. Big potholes but at terminating end of road. Power pole very close to road.	10. Minor	Medium	Delineate pole on bend. Corner signage and / or CAMs on tight bend near Murchison Highway (big drop behind this, very steep, very narrow).	-	IMG_3445.jpg	145.711395	-41.1346474	391845.948	5445495.489	<a href="#">View Photo</a>	<a href="#">View Location</a>
169	Brackendale Road			13/11/2019	Unsealed	As above.	10. Minor	Low	Fix potholes.	-	IMG_3440.jpg	145.69812	-41.1347008	390731.823	5445472.988	<a href="#">View Photo</a>	<a href="#">View Location</a>
170	Brackendale Road	Murchison Highway	Intersection	13/11/2019	Sealed	SISD right 130m, (road geometry), 250m left. No signage or linemarking.	5. State Highway	Low	Install advance warning T intersection signage and linemark on minor road and advance warning side road intersection signage on Murchison Highway from the right.	-	IMG_3448.jpg	145.711823	-41.1354448	391883.179	5445407.518	<a href="#">View Photo</a>	<a href="#">View Location</a>
171	Wiggs Road			13/11/2019	Unsealed	Small local road. Sharp corner with drop off - no guide posts. Creek crossing with some guideposts. Also corner at end with drop - limited guideposts.	10. Minor	Low	Add guideposts to 2 corners. Linemark and advance warning (to Highway).	-	IMG_3453.jpg	145.67775	-41.1670674	389077.695	5441787.394	<a href="#">View Photo</a>	<a href="#">View Location</a>
172	Wiggs Road	Murchison Highway	Intersection	13/11/2019	Sealed	No signage or linemarking. SISD 50m left (corner) 150m right (corner).	5. State Highway	Medium	Install advance warning stop and stop signage and linemark intersection on minor road and advance warning side road intersection signage on Murchison Highway (from both directions).	-	IMG_3468.jpg	145.67851	-41.1670723	388994.494	5441852.059	<a href="#">View Photo</a>	<a href="#">View Location</a>
173	Lancoes Road			13/11/2019	Unsealed	Potholes near lake / dam and water only 100-200mm below top of pavement - risk of vehicles coming off road into lake and also to pavement being saturated (potholes already formed). Low risk as only a forest access road - no houses, no through road.	10. Minor	Low	Fix potholes, consider lifting road pavement level next to lake.	-	IMG_3490.jpg	145.670044	-41.1822588	388495.99	5440157.673	<a href="#">View Photo</a>	<a href="#">View Location</a>
174	Lancoes Road	Murchison Highway	Intersection	13/11/2019	Unsealed	Give way sign present, unsealed side road. SISD 100m right (crest), 250m+ left. Some potholes at intersection.	5. State Highway	Low	Install advance warning T intersection signage on minor road and advance warning side road intersection signage on Murchison Highway from north. Fix potholes.	-	IMG_3496.jpg	145.681713	-41.1786003	387751.001	5440553.092	<a href="#">View Photo</a>	<a href="#">View Location</a>
175	Takone Road	Oldina Road	West Calder Road	13/11/2019	Sealed	Centreline linemarking, no RRPMS. One lane bridge - advance give way warning sign, give way and bridge signage present - good. Bridge has guard rail with bull nose terminals (retain on western side for curves). Identified site by Council - insufficient approach sight distance at Calder River Bridge. ASD to bridge guard rail start is 80m - insufficient. From T intersection to (Oldina) to give way warning sign is 100m. Only one (minor) crash at this location in last 5 years. Add concealed driveway sign west of crest just west of Tysons Rd (property at top of crest. Big corner with drop off and bad sight through the corner. guideposts but no signs.	9. Local Access	Medium	For the Calder River Bridge eastern approach - Add second give way sign on right hand side of road (this will be visible from a greater distance than existing give way signage), add rumble strips on approach, remove blackberries from fence on approach, ASD to barrier is 80m (should be 180m from AGRD).	-	IMG_3517.jpg	145.670624	-41.1479378	388446.435	5443965.599	<a href="#">View Photo</a>	<a href="#">View Location</a>
176	Takone Road	Oldina Road	West Calder Road	14/11/2019	Sealed	As above.	9. Local Access	Low	Upgrade terminals on eastern side of bridge to G.R.E.A.T. terminals. Add RRPMS. Add concealed driveway sign west of crest just west of Tysons Rd (property at top of crest). Add corner signage / CAMs for large corner with drop off.	-	IMG_3357.jpg	145.677414	-41.1283493	388983.198	5446151.818	<a href="#">View Photo</a>	<a href="#">View Location</a>
177	Tysons Road			13/11/2019	Unsealed	A creek crossing and S-bends. Some guideposts. More would be better but only servicing a few houses. Intersection with Takone Road. SISD right 102m (trim vegetation to improve), left 200m. Sealed, no signage or linemarking.	10. Minor	Low	Install additional guideposts on corners where insufficient. Install advance warning T intersection signage and linemark intersection. Trim tree to right at Takone Road intersection to improve sight.	-	IMG_3541.jpg	145.659952	-41.1582482	387313.382	5443028.62	<a href="#">View Photo</a>	<a href="#">View Location</a>
178	Takone Road	West Calder Road	Elliots Road	13/11/2019	Sealed	No linemarking on centreline anymore, narrower road. S-bend - some guideposts, add more. Gully crossings with drops - multiple, have 4 guideposts. Identified site by Council - Bridge west of Woolleys Road (potential spanning hazard from guard rail at Ingles River Bridge) - G.R.E.A.T. terminals used and good bridge signage but across bridge wooden guard fencing used, connected to standard guard fence at either end. Bridge is straight with reasonable length of guard rail on approaches to terminals, therefore low probability of cars contacting wooden rail section on an acute enough angle to spear into back of metal guard rail. Big culvert crossing, west of Woolleys Road which as guard rail with G.R.E.A.T. terminals but no signage. After bridge westbound has ongoing winding section of road. Guide posts are lacking at western end of this road segment on corners.	9. Local Access	Medium	Replace wooden guard fencing over Ingles River Bridge with rigid barrier or w-beam guard rail.	-	IMG_3584.jpg	145.635886	-41.1623955	385504.891	5442318.589	<a href="#">View Photo</a>	<a href="#">View Location</a>

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	Road	Between Road A	Road B														
179	Takone Road	West Calder Road	Elliots Road	13/11/2019	Sealed	As above.	9. Local Access	Low	Add guide posts on S-bends and corners at western end of road section where insufficient and install 'winding road XXkm' signage through this section. Install hazard marker signage on guard rail on bridge west of Woolleys Road.	-	IMG_3577.jpg	145.641846	-41.1604843	386053.223	5442538.453	<a href="#">View Photo</a>	<a href="#">View Location</a>
180	Woolleys Road			13/11/2019	Unsealed	Gully drop offs with single guideposts - add more posts. S bends with few posts also. Waterway and culvert under right next to road, side drop off. 25km/h advisory sign (with no other corner signage) sitting away from road, near edge of road reserve.	10. Minor	Low	Add guide posts on S-bends and gully crossings. Add unidirectional hazard marker by waterway. Relocate 25km/h advisory speed sign, add corner signage to it.	-	IMG_3593.jpg	145.63205	-41.173439	385253.941	5441087.39	<a href="#">View Photo</a>	<a href="#">View Location</a>
181	Woolleys Road	Takone Road	Intersection	14/11/2019	Sealed	Need to better define intersection - modified T, currently looks like a T with the minor road continuing. No linemarking or signage. SISD 250m right, 100m left (remove tree to improve).	9. Local Access	Low	Improve intersection with linemarking to confirm the split of minor / major road (modified T). Linemark a modified T in with edgelines, hold lines, add give way, advance warning give way signage and advance warning modified T signage.	-	IMG_3606.jpg	145.633057	-41.1675072	385328.067	5441747.248	<a href="#">View Photo</a>	<a href="#">View Location</a>
182	Elliots Road			13/11/2019	Unsealed	Short road to one property driveway. Bend and steep drop into gully but only one car width / driveway track makes this a very low speed environment. Culvert drop off on corner of Elliots Road and Takone Road.  Intersection with Takone Road SISD left 50m (vegetation and road geometry) right 150m (road geometry).	10. Minor	Low	Install guide posts along drop off section. Install hazard marker signage at vertical culvert drop off between Elliots Road and Takone Road. Install advance warning T intersection signage. Trim vegetation west of Elliots Road to improve intersection sight. Install advance warning side road intersection signage on Takone Road west of the intersection.	-	IMG_3632.jpg	145.613129	-41.1754112	383670.262	5440843.317	<a href="#">View Photo</a>	<a href="#">View Location</a>
183	Takone Road	Elliots Road	Campbell Range Road	13/11/2019	Unsealed	Drop off but blocked by trees. Reasonable use of guide posts. Bridge east of Da Rues Road with guard rail and 3 G.R.E.A.T. terminals and 1 curved bull nose terminal - retain for side access. Bridge signage good. Another bridge west of Da Rues Road - with guard rail and 3 G.R.E.A.T. terminals and 1 curved bull nose terminal - retain for roadside environment. Bridge signage good. Extra guideposts on corners - often on inside but not on outside, not more than one visible. Big drop offs near Da Rues road (20m+) but very low traffic volumes expected here - add more guideposts, ideally would install guard rail but space issues and traffic likely do not warrant it. Power pole 1m from road. Potholes in road but most of these start west of Campbell Range Road (outside of project boundary)	9. Local Access	Medium	Install additional guideposts on outside of corners where insufficient. Install additional guideposts or hazard marker signage along section of road with large, steep drop off. Delineate power poles within 1m of road.	-	IMG_3604.jpg	145.578751	-41.1838889	380801.974	5439854.5	<a href="#">View Photo</a>	<a href="#">View Location</a>
184	Campbell Range Road			13/11/2019	Unsealed	Forest track, very isolated, looks like it hasn't been driven on in a long time. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
185	Pinnars Road			13/11/2019	Unsealed	Drop offs at gully crossings - guideposts provided, very low traffic environment. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
186	Pinnars Road	Takone Road	Intersection	13/11/2019	Unsealed	SISD sufficient both directions. Very low traffic volume environment. No issues in the context of this rural road safety audit.	9. Local Access	-	-	-	-	-	-	-	-	-	-
187	Da Rues Road			13/11/2019	Unsealed	Narrow, no through road forest track. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
188	Chromys Road			13/11/2019	Unsealed	Bridge signage ok, missing 'no overtaking' signage. 4 bull nose - replace. Multiple culvert drop offs, one with only 1 guide post on one side, none on other - add posts. Water crossing (couldn't identify a culvert, but assuming one running under the road here) where water almost to road level and guide posts bent and dirty - refresh. Street sign spelled 'CHROMYS', all other documents spell it 'CHROMYS'.	10. Minor	Low	Replace bull nose terminals with G.R.E.A.T. terminals and add no overtaking on bridge signage. Add guide posts where missing around culvert drop offs. Replace street name signage with correct spelling. Refresh / replace guideposts around 'water crossing' location, consider lifting road height. Chromys does link back to Takone Road via a track at other end, so secondary exit for properties if road floods.	-	IMG_3784.jpg	145.630234	-41.1581811	385078.711	5442866.753	<a href="#">View Photo</a>	<a href="#">View Location</a>
189	Chromys Road	Takone Road	Intersection	13/11/2019	Unsealed	SISD right - 250m+, left 200m (through bridge). No signage or linemarking.	9. Local Access	Low	Install advance warning T intersection signage and linemarking.	-	IMG_3801.jpg	145.634872	-41.1628494	385472.219	5442266.733	<a href="#">View Photo</a>	<a href="#">View Location</a>
190	West Calder Road			13/11/2019	Unsealed	90 degree corner at southern end of road - 25km/h advisory turn signage provided but no guideposts around turn. Long corners (many) with little or no guide posts, ongoing length of tight turns at northern end of road. Big drop off to side of road. Corner signage and possibly CAMs may be required on one of the sharper corners with drop behind it. Bridge with no safety barrier! - install safety barrier and G.R.E.A.T. terminals	10. Minor	High	Install guard rail on bridge near Zig Zag Road, ideally replace existing wooden fence across bridge and replace with rigid barrier or guard rail and G.R.E.A.T. terminals	\$ 72,000	IMG_3921.jpg	145.610852	-41.0760538	383807.384	5451578.606	<a href="#">View Photo</a>	<a href="#">View Location</a>
191	West Calder Road			13/11/2019	Unsealed	As above.	10. Minor	Medium	Install corner and advisory speed signage and possibly CAMs where required, winding road next XXkm and advisory speed signage for northern section of road.	-	IMG_3841.jpg	145.614014	-41.0758858	383586.673	5451893.448	<a href="#">View Photo</a>	<a href="#">View Location</a>
192	West Calder Road			13/11/2019	Unsealed	As above.	10. Minor	Low	Install guide posts on corners where insufficient and along edges where there are large drop offs.	-	IMG_3833.jpg	145.64798	-41.1447298	386540.703	5444295.5	<a href="#">View Photo</a>	<a href="#">View Location</a>

Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between Road A	Road B														
193	Bassetts Road			13/11/2019	Unsealed	Steep drop offs - guide posts present. Bridge closed to West Calder Road with guard rail and G.R.E.A.T. terminals - no signage. Second bridge, further from West Calder Road with short, bull nose guard rail terminals, no signs on this one either. At this point it goes into private property.	10. Minor	Low	Install correct bridge signage for both bridges (narrow). Replace bull nose terminals on section bridge with G.R.E.A.T. terminals.	-	IMG_3981.jpg	145.621582	-41.0848122	384220.118	5450912.559	<a href="#">View Photo</a>	<a href="#">View Location</a>
194	Bassetts Road	West Calder Road		13/11/2019	Unsealed	SISD 60m left (corner, can improve by trimming vegetation, 100m right (over bridge). Unsealed, no signage. Low traffic volume environment.	10. Minor	Low	Install advance warning T intersection signage and advance warning side road intersection signage.	-	IMG_4001.jpg	145.618806	-41.0763283	383804.004	5451848.048	<a href="#">View Photo</a>	<a href="#">View Location</a>
195	West Calder Road	Zig Zag Road	Intersection	13/11/2019	Unsealed	Modified T intersection based on road names (West Calder Road to Zig Zag Road north goes straight through) or 3-way give way - no intersection priority, but low speed and suits the environment.	10. Minor	Low	Consider installing advance warning T intersection signage on Zig Zag Road western approach (coming downhill to intersection at gully below). May be signage here indicating this already - footage showing from opposite direction.	-	IMG_4003.jpg	145.616745	-41.0755539	383797.515	5451933.937	<a href="#">View Photo</a>	<a href="#">View Location</a>
196	Zig Zag Road	West Calder Road	Calder Road	13/11/2019	Unsealed	(Other section of Zig Zag Road covered later in the week) Wide road, reasonable use of guide posts, may be worth adding more due to the steep descent of the road (and unsealed)	10. Minor	Low	Install additional guideposts, particularly on corners and to assist with downhill descent.	-	IMG_4007.jpg	145.620651	-41.0734901	384122.029	5452168.26	<a href="#">View Photo</a>	<a href="#">View Location</a>
197	Zig Zag Road	Calder Road	Intersection	13/11/2019	Sealed	SISD 90m right (road geometry, vehicles coming around a low speed corner), 170m left. No signage or linemarking. Y-intersection.	9. Local Access	Medium	Install advance warning T intersection signage and linemarking. Install advance warning side road intersection signage on Calder Road south of intersection. Consider squaring up intersection (minor land acquisition would be required).	-	IMG_4017.jpg	145.631104	-41.0892368	384982.767	5452654.271	<a href="#">View Photo</a>	<a href="#">View Location</a>
198	Calder Road	Zig Zag Road	Kellatier Road	13/11/2019	Sealed	Two sets of 2 CAMs, need a minimum of 3. Add CAMs on bend with 35kmh advisory sign - crest just before and big drop off just south of Zig Zag Road. Winding road with crests - lacking guideposts. Big sweeping corners, some of these have only a few guideposts. Add more. Lots that need more guideposts. Power poles, some only 1m from road edge.	9. Local Access	Medium	Install additional CAMs where missing from sets. Delineate power poles where within 1m of the road. Install additional guideposts on corners where required. Install advance warning corner (and advisory speed if required) signage to improve visibility of corners on the other side of crests.	-	IMG_4032.jpg	145.641922	-41.0787697	385918.165	5451810.187	<a href="#">View Photo</a>	<a href="#">View Location</a>
199	Calder Road	Kellatier Road	Intersection	13/11/2019	Sealed	Very confusing intersection - very little warning or visibility of it from Calder Road north and not clear who has priority / not even clear where Calder Road continues - Kellatier Road name sign seems to be pointing in the wrong direction.	9. Local Access	High	Need to add linemarking and signage. Linemark lanes and continuity to make clear which road continues from Calder Road. Change priority to reflect road priority (a modified T intersection with priority between Calder Road north and Kellatier Road). Install give way signage and advance give way signage on Calder Road south. Install advance warning modified T intersection signage on Kellatier Road and Calder Road north (and possibly advisory speed signage). Linemark intersection edgelines, centralines to define intersection.	\$ 20,000	IMG_4055.jpg	145.646118	-41.0833037	386295.709	5450002.171	<a href="#">View Photo</a>	<a href="#">View Location</a>
200	Kellatier Road			13/11/2019	Sealed	Steep downhill with bends and superelevation changes - unsafe for speed control with bends and gravel over the road - generally good use of guideposts along this road. Driveways just past a crest, add concealed driveway signage for westbound traffic. Guard rail on a corner with fish tail terminals (x2) - spearing risk. Very steep down to gully crossing, guide posts and turn signage provided - no advisory speed signage.	10. Minor	High	Replace fish tail terminals with G.R.E.A.T. terminals.	\$ 13,000	IMG_4075.jpg	145.658996	-41.0958214	387379.063	5448739.35	<a href="#">View Photo</a>	<a href="#">View Location</a>
201	Kellatier Road			13/11/2019	Sealed	As above.	10. Minor	Low	Install advance warning concealed driveways signage to advise of driveways at / just past a crest. Add advisory speed signage to existing turn sign. Consider winding road signage for this section around the gully crossing.	-	IMG_4070.jpg	145.654066	-41.0951042	386986.485	5449812.629	<a href="#">View Photo</a>	<a href="#">View Location</a>
202	Kellatier Road	Lowries Road	Intersection	13/11/2019	Sealed	Advance warning T intersection signage present, no linemarking. SISD 60m right and 80m to left (road geometry - veg and fence lines impacting slightly).	10. Minor	Medium	Install stop signage and intersection linemarking. Install advance warning side road intersection signage on Lowries Road (both directions). Trim vegetation and consider pushing fence lines back to improve intersection sight.	-	IMG_4086.jpg	145.66066	-41.09768	387524.33	5449545.306	<a href="#">View Photo</a>	<a href="#">View Location</a>
203	Calder Road / Reillys Road	Kellatier Road	Reillys Road	13/11/2019	Unsealed	Very minor. No through roads servicing a few properties. Low speed environment. Lacking guideposts on corners.	10. Minor	Low	Install guide posts on corners where insufficient.	-	IMG_4103.jpg	145.648332	-41.0949173	386316.485	5449823.315	<a href="#">View Photo</a>	<a href="#">View Location</a>
204	Calder Road	Zig Zag Road	Pages Road	13/11/2019	Sealed	Double painted centreline no RRPMs. Guide posts generally good - some locations with minimal guide posts on bends - some with reasonable drop offs on outside.	9. Local Access	Low	Install RRPMs. Install guide posts where insufficient.	-	IMG_4169.jpg	145.639923	-41.0522842	385704.381	5454547.859	<a href="#">View Photo</a>	<a href="#">View Location</a>
205	Elphinstones Road			13/11/2019	Unsealed	No guide posts on bend with steep drop off. Gully crossing with only 2 guideposts. Steep drop off with no guideposts. 2x power poles on edge of road.	9. Local Access	Low	Delineate power poles on edge of road. Add guideposts on corners and at drop off locations.	-	IMG_4142.jpg	145.635941	-41.0584368	385382.158	5453748.588	<a href="#">View Photo</a>	<a href="#">View Location</a>
206	Elphinstones Road	Calder Road	Intersection	13/11/2019	Unsealed	Advance warning T intersection signage present, no linemarking. Potholes at the intersection in sealed pavement. SISD right 100m (trim trees to improve) left 200m.	9. Local Access	Low	Install linemarking. Trim vegetation to improve intersection sight. Fix potholes.	-	IMG_4180.jpg	145.640594	-41.0593414	385772.961	5453765.284	<a href="#">View Photo</a>	<a href="#">View Location</a>
207	Woodhouse Road			13/11/2019	Unsealed	Fish tail guard rail terminals over a culvert / very small bridge but very low to ground (low spear risk) and only at end of road where forest is, no houses. Trees very close to road. Sleep windy road with drop offs, but very low traffic volume and low speed environment. Reasonable use of guide posts. Intersection with Calder Road: SISD right 250m left 200m. No signage or linemarking.	10. Minor	Medium	Replace fish tail terminals with G.R.E.A.T. terminals. Install additional guideposts or consider CAMs on corners with steep drops. Install advance warning T intersection signage and linemark intersection.	-	IMG_4200.jpg	145.63121	-41.0276718	384929.287	5457268.743	<a href="#">View Photo</a>	<a href="#">View Location</a>



Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between Road A	Road B														
208	Harris Road			13/11/2019	Mixed (sealed and unsealed)	Pavement needs re-grading - undulating. Sealed section undulating also. Road turns into a forest track.  Intersection with Calder Road: No signage or linemarking. SISD 100m left and right (road geometry).	10, Minor	Low	Re-grade pavement. Install advance warning T intersection signage and linemark intersection. Install advance warning side road intersection signage on Calder Road.	-	IMG_4207.jpg	145.641235	-41.0247803	385767.088	5487602.912	<a href="#">View Photo</a>	<a href="#">View Location</a>
209	Ingleford Road			13/11/2019	Unsealed	Bridge with guard rail with bull nose terminals, good signage. Bridge looks fairly new. One terminal curved / short to allow property access.  Intersection with Calder Road: No signage or linemarking. SISD right 90m left 100m (road geometry).	10, Minor	Low	Install advance warning T intersection signage and linemark intersection. Install advance warning side road intersection signage on Calder Road. Replace bull nose terminals with G.R.E.A.T. terminals.	-	IMG_4227.jpg	145.622498	-41.0174255	384178.919	5488394.706	<a href="#">View Photo</a>	<a href="#">View Location</a>
210	Pages Road	Calder Road	Intersection	13/11/2019	Sealed	Hazard board and give way signage present. Linemarking needs refreshing. SISD 200m to right (improve by trim veg), 200m to the left. Identified site by Council - Trees are blocking sight distance to the South of the intersection (exiting Pages Road)	7, Collector	Medium	Refresh linemarking and install advance warning give way signage. Consider removing trees to south to improve sight, could add painted or solid mountable island to define intersection.	-	IMG_4249.jpg	145.660019	-41.0012665	387306.252	5480237.691	<a href="#">View Photo</a>	<a href="#">View Location</a>
211	Calder Road	Pages Road	Bass Highway	13/11/2019	Sealed	No guideposts on some corners. Bridge with guard rail with bull nose terminals, no signage on bridge. Double painted centreline but no RRPMS. Corner just north of Pages Road that may require advisory corner / speed / CAMs signage. Identified site by Council - Speed limit assessment over this length. 18 crashes recorded in the past 5 years over this 4km length of road (5 of these were at the intersection of Calder Road / Bass Highway which has recently been upgraded to a large roundabout).	7, Collector	High	Reduce speed from 100km/h to 80km/h, and 80km/h to 60km/h close to Bass Highway.	\$ 21,000	IMG_4258.jpg	145.679855	-40.9900131	388955.635	5481512.383	<a href="#">View Photo</a>	<a href="#">View Location</a>
212	Calder Road	Pages Road	Bass Highway	13/11/2019	Sealed	As above.	7, Collector	Medium	Install additional guide posts where insufficient. Install RRPMS on centreline. Upgrade bull nose terminals to G.R.E.A.T. terminals. Assess for advisory corner / speed / CAMs signage on corners.	-	IMG_4272.jpg	145.684845	-40.9862159	389374.048	5481607.216	<a href="#">View Photo</a>	<a href="#">View Location</a>
213	Ballast Pit Road			13/11/2019	Sealed	No guide posts on first corner, power poles close to road and on outside of corner. End of road has water body next to road with small drop, guideposts there, low traffic volume environment.	8, Feeder	Low	Delineate power poles that are close to the road. Install guide posts on corners where insufficient.	-	IMG_4290.jpg	145.669464	-40.9853935	388073.759	5462011.957	<a href="#">View Photo</a>	<a href="#">View Location</a>
214	Emerald Vale Road			13/11/2019	Unsealed	Low speed environment.  Intersection with Ballast Pit Road: Advance warning T intersection signage on Ballast Pit Road approach, but should be modified T signage (as Ballast Pit Road continues around to the south) - but low speed residential area so low risk. Give way signage on Emerald Vale Road - correct but relocate closer to the intersection.	10, Minor	Low	Replace advance warning T intersection sign with correct modified T signage. Relocate give way signage closer to intersection. Linemark Ballast Pit Road edgeline through intersection.	-	IMG_4293.jpg	145.664886	-40.9845428	387687.198	5462100.519	<a href="#">View Photo</a>	<a href="#">View Location</a>
215	Fosters Road			13/11/2019	Unsealed	Sharp corner near Ballast Pit Road - needs extra guide post in front of tree on corner.	10, Minor	Low	Install additional guide post on corner.	-	IMG_4307.jpg	145.671483	-40.9860784	388243.074	5481938.706	<a href="#">View Photo</a>	<a href="#">View Location</a>
216	Fosters Road	Ballast Pit Road	Intersection	13/11/2019	Sealed	Advance warning side road intersection signage on Ballast Pit Road south of intersection present (outdated style). SISD left 80m (west in road), right is 200m (can improve by trimming tree). Identified site by Council - Limited sight to traffic on Ballast Pit Road. No crashes recorded here in past 5 years.	8, Feeder	Low	Install advance warning T intersection signage. Linemark intersection. Upgrade side road intersection signage to current standard. Consider reducing speed to 60km/h on Ballast Pit Road through this zone.	-	IMG_4310.jpg	145.671249	-40.986806	388226.406	5481850.775	<a href="#">View Photo</a>	<a href="#">View Location</a>
217	Ballast Pit Road	Calder Road	Intersection	13/11/2019	Sealed	Advance warning T intersection signage, give way signage and hazard board present but hazard board old (non reflective). Linemarking worn out. SISD 80m right, 120m left (road geometry, but from right there is also clear sight from further back along main road, before crest). Identified site by Council - Insufficient sight lines to traffic on Calder Road from the south. Two crashes at this location in the past 5 years (property damage only).	7, Collector	Medium	Replace hazard board. Add advance warning side road signage on Calder Road (both directions). Ensure grass / vegetation in verge is mowed / sprayed regularly to keep it from impacting sight distance.	-	IMG_4317.jpg	145.675781	-40.9821036	388616.46	5481275.121	<a href="#">View Photo</a>	<a href="#">View Location</a>
218	Stennings Road			13/11/2019	Mixed (sealed and unsealed)	Straight road, industrial environment through sealed section. No issues in the context of this rural road safety audit.	9, Local Access	-	-	-	-	-	-	-	-	-	-
219	Shekleton Road			13/11/2019	Sealed	Short straight road, industrial environment. No issues in the context of this rural road safety audit.	10, Minor	-	-	-	-	-	-	-	-	-	-
220	Pages Road			14/11/2019	Sealed	Trees - big ones on outside of bend close to Calder Road - a serious injury crash at this location in last 5 years. Centreline linemarking present but no RRPMS. Short fish/tail terminal (wk) guard rail over mini bridge / culvert -replace but will need longer barrier.  No guide posts on big sweeping corner and others that could have CAMs given crash history (multiple crashes on bends east of Inglis River). Bridge (Inglis River) no signage, has guard rail with 3 G.R.E.A.T. terminals and one bull nose - curved to provide property access - retain existing. Advance warning winding road and advisory speed signage on corners west of Inglis River - may require CAMs also. Painted edgelines provided around Inglis River Bridge - not elsewhere. Sealed road width varies from 8.0m to 7.5m.	7, Collector	High	Replace fish tail terminals with G.R.E.A.T. terminals.	\$ 23,000	IMG_4356.jpg	145.654419	-40.9983706	388632.031	5480440.919	<a href="#">View Photo</a>	<a href="#">View Location</a>



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	Road	Between Road A	Road B														
221	Pages Road			15/11/2019	Sealed	As above.	7. Collector	High	Install guard rail with G.R.E.A.T. terminals on outside of large bend near Calder Road. Consider advance warning corner and advisory speed signage where not present and required and CAMs on corners both east and west of Inglis River. Linemark edgelines where seal width is 6.4m or greater. Install additional guide posts on corners where insufficient.	\$ 132,000	IMG_4355.jpg	145.658234	-40.9963706	387152.893	5460445.856	<a href="#">View Photo</a>	<a href="#">View Location</a>
222	Pages Road			14/11/2019	Sealed	As above.	7. Collector	Low	Install RRPMS. Install necessary bridge signage on Inglis River bridge.	-	IMG_4381.jpg	145.631806	-41.00103	384936.082	5460227.227	<a href="#">View Photo</a>	<a href="#">View Location</a>
223	Cryank Road			14/11/2019	Unsealed	Serves one property, essentially a long straight driveway. Crosses one creek with guide posts. No issues in the context of this rural road safety audit.  Intersection with Pages Road: SISD right 200m, left 170m (road geometry) A small paddock access road - very minor	10. Minor	-	-	-	-	-	-	-	-	-	-
224	Buggs Road			14/11/2019	Unsealed	Intersection with Pages Road: SISD right 120m, left 85m (road geometry mostly, trimming the vegetation to the left would help).	10. Minor	Low	Trim vegetation to improve intersection sight. Install advance warning side road intersection signage on Pages Road.	-	IMG_4412.jpg	145.617111	-40.9964414	383687.307	5460828.09	<a href="#">View Photo</a>	<a href="#">View Location</a>
225	Pages Road	Preolenna Road / Lapoinya Road	Intersection	14/11/2019	Sealed	4-way intersection. Dangerous location - High traffic roads with poor sight on multiple approaches. From Pages Road SISD 90m right (road geometry) 150 left (trim trees to improve). Advance warning cross road intersection signage 300m ahead (incorrect use), advance warning stop sign ahead signage 150m ahead, stop signage and linemarking (faded) present. Advance warning cross road intersection signage provided on Preolenna Road (not compliant with current standard). Corners where guide posts are lacking. Curve and advisory speed signage used - good. Two fatalities in past 5 years in close proximity just south of first curve south of Pages Road - advisory corner and speed signage provided, but corner just after a crest and drop off on outside of road. Wide seal in some sections - could linemark centreline, particularly through corners.	7. Collector	Medium	Remove existing advance warning cross road intersection signage on Pages Road (curve and advisory speed signage likely required here as per Pages Road recommendations). Trim trees to improve intersection sight. Replace advance warning cross road signage on Preolenna Road with signage compliant with current standard. Install second stop sign on right hand side of road at intersection.	-	IMG_4418.jpg	145.61377	-40.9961624	383407.563	5460743.594	<a href="#">View Photo</a>	<a href="#">View Location</a>
226	Preolenna Road	Pages Road	Ten Foot Track	15/11/2019	Sealed	Two fatalities in past 5 years in close proximity just south of first curve south of Pages Road - advisory corner and speed signage provided, but corner just after a crest and drop off on outside of road. Wide seal in some sections - could linemark centreline, particularly through corners.	9. Local Access	High	Install sections of guard rail (approx. 150m total) with G.R.E.A.T. terminals and CAMs on outside of corner just south of Pages Road.	\$ 72,000	IMG_4420.jpg	145.614548	-40.997654	383476.628	5460579.044	<a href="#">View Photo</a>	<a href="#">View Location</a>
227	Preolenna Road	Pages Road	Ten Foot Track	14/11/2019	Sealed	As above.	9. Local Access	Low	Install additional guide posts on corners where insufficient. Consider linemarking centreline and installing RRPMS through corners where pavement seal width is greater than 5.5m.	-	IMG_4406.jpg	145.598175	-41.0383715	382172.908	5459625.817	<a href="#">View Photo</a>	<a href="#">View Location</a>
228	Ten Foot Track			14/11/2019	Unsealed	Bridge with guard rail with 2 G.R.E.A.T. terminals and 2 bull nose terminals - retain, curve fits road geometry. Bridge signage good, but single lane bridge, needs 'one lane' advisory signs added on both approaches, some potholing (small) on bridge. Trees very close to road but narrow, low speed environment, very low traffic. Some extra guideposts on corners would be good but very low traffic. Corners with no / limited guide posts.	10. Minor	Low	Install additional guide posts on corners where insufficient. Install 'one lane' signage for bridge. Re-grade pavement to fix pot holes.	-	IMG_4471.jpg	145.585908	-41.0309005	381107.703	5454022.705	<a href="#">View Photo</a>	<a href="#">View Location</a>
229	Ten Foot Track	Preolenna Road	Intersection	14/11/2019	Sealed	SISD right 220m, left 200m (trim veg to improve, but low traffic environment). No signage or linemarking. Y-intersection - could square up but the traffic volumes likely don't warrant this.	9. Local Access	Low	Install advance warning T intersection signage and linemark intersection. Trim vegetation to improve sight distance.	-	IMG_4519.jpg	145.592743	-41.0459099	381728.03	5455192.806	<a href="#">View Photo</a>	<a href="#">View Location</a>
230	Preolenna Road	Ten Foot Track	Zig Zag Road	14/11/2019	Sealed	Good through forest - clear zones kept relatively free of hazards. Some guide posts, corners sweep, not too tight, some corners lacking guideposts.	9. Local Access	Low	Install additional guide posts on corners where insufficient.	-	IMG_4530.jpg	145.590836	-41.0722771	381615.05	5452262.856	<a href="#">View Photo</a>	<a href="#">View Location</a>
231	Nicholsons Road			14/11/2019	Unsealed	Serves 1 or 2 properties at end of forest track (extension of Ten Foot Track). No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
232	Zig Zag Road	Preolenna Road	West Calder Road	14/11/2019	Unsealed	Gravel road advisory sign provided at start of unsealed section. Drop offs on corners and trees close to the road - reasonable number of guide posts provided but given the steep nature, more would be helpful. Steep drops, CAMS on a corner - only 2 signs, need 3. VERY steep drop along one section (50m+ close to vertical down into large river - identified site by Council - Steep drop off on unsealed surface (CH 3.5-4.3k). Bridge with guard rail with bull nose terminals. - bridge signage is OK, needing the advisory narrow bridge - one lane signage though western side. More drop off past bridge to river (4m drop), to West Calder Road.	10. Minor	High	Install guard rail along length of very steep drop (approx. 200m).	\$ 113,000	IMG_4585.jpg	145.609207	-41.0651131	383146.769	5453062.952	<a href="#">View Photo</a>	<a href="#">View Location</a>
233	Zig Zag Road	Preolenna Road	West Calder Road	14/11/2019	Unsealed	As above.	10. Minor	Low	Upgrade bull nose terminals to G.R.E.A.T. terminals. Install additional CAM on section missing. Install additional guide posts along sections of drop off. Install missing bridge signage on western approach.	-	IMG_4576.jpg	145.611374	-41.066076	383334.143	5452690.317	<a href="#">View Photo</a>	<a href="#">View Location</a>
234	Zig Zag Road	Preolenna Road	Intersection	14/11/2019	Sealed	SISD right 240m, left 250m+. No signage or linemarking. Wide throat of intersection.	9. Local Access	Low	Install advance warning T intersection signage. Linemark intersection.	-	IMG_4596.jpg	145.59166	-41.0727119	381685.066	5452215.705	<a href="#">View Photo</a>	<a href="#">View Location</a>
235	Preolenna	Zig Zag Road	Meunna Road	14/11/2019	Sealed	Corner just north of Meunna Road - steep downhill with drop off, pavement lacking aggregate mostly slick bitumen and steep drop on outside of bend coming down the hill. Pavement needs better skid resistance and corner needs protection. 2x S-bends tight after sections of long straights. Need CAMs / advisory S-bend / speed signs. Corners south of Coal Mine Road with no guide posts at all.	9. Local Access	High	Resurface pavement across section with poor skid resistance. Install guard rail with G.R.E.A.T. terminals around southern section of S-bend (approx. 100m total). Install advance warning S-bend and advisory speed signage.	\$ 71,000	IMG_4782.jpg	145.537735	-41.1063957	377217.409	5448401.677	<a href="#">View Photo</a>	<a href="#">View Location</a>
236	Preolenna	Zig Zag Road	Meunna Road	14/11/2019	Sealed	As above.	9. Local Access	Low	Install additional guide posts on corners where insufficient and around drop offs.	-	IMG_4700.jpg	145.547943	-41.0864623	378043.249	5450295.896	<a href="#">View Photo</a>	<a href="#">View Location</a>

WW201 - Table of Findings

Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between															
		Road A	Road B														
237	Coal Mine Road			14/11/2019	Unsealed	Bridge with guard rail with G.R.E.A.T. terminals and good signage but missing hazard markers. Very minor potholing on bridge. Corners where guide posts are lacking. Drop offs (medium). Becomes more of a forest track south of Meunna Rd.	10. Minor	Low	Install additional guide posts on corners where insufficient and around drop offs. Install hazard markers on bridge.	-	IMG_4635.jpg	145.562570	-41.0964622	379285.113	5449539.167	<a href="#">View Photo</a>	<a href="#">View Location</a>
238	Meunna Road	Coal Mine Road	Preolenna Road	14/11/2019	Unsealed	Generally ok for the environment, some corners lacking guide posts.	10. Minor	Low	Install additional guide posts on corners where insufficient.	-	IMG_4606.jpg	145.552948	-41.1137657	379508.433	5447604.613	<a href="#">View Photo</a>	<a href="#">View Location</a>
239	Meunna Road	Preolenna Road	Intersection	14/11/2019	Sealed	SISD right 100m (trimming vegetation will help a little bit, (20-30m) Left 40m (road geometry). No signage or linemarking present. Very wide seal here for intersection.	9. Local Access	Medium	Install advance warning stop and stop signage on Meunna Road east and advance warning side road intersection signage on Meunna Road south and Preolenna Road north. Line mark intersection for north - south priority with a stop bar.	-	IMG_4694.jpg	145.536362	-41.1078072	377104.751	5448243.041	<a href="#">View Photo</a>	<a href="#">View Location</a>
240	Coal Mine Road	Preolenna Road	Intersection	14/11/2019	Sealed	Give way signage and old linemarking present. Some minor potholing where seal starts. Lots of gravel on the intersection from Coal Mine Road (unsealed past intersection) - Slide out risk for motorcycle as intersection on outside of a corner. SISD 70m left, 170m right (road geometry, large tree to the left also but cutting this down will not improve sight by that much).	9. Local Access	Medium	Install advance warning stop signage and replace give way signage with stop signage on Coal Mine Road, and advance warning side road intersection signage on Preolenna Road (both directions). Refresh linemarking, using a stop bar for intersection. Clean loose gravel from road and consider sealing further along Coal Mine Road to limit this happening in the future.	-	IMG_4723.jpg	145.568237	-41.0865517	379742.463	5450647.216	<a href="#">View Photo</a>	<a href="#">View Location</a>
241	Humbles Road			14/11/2019	Unsealed	Services only one property and forest access. Potholes and uneven pavement past the only house, towards forest. Should re-grade but low priority. Lacking guideposts. Intersection with Preolenna Road: No signage or linemarking. SISD right 250m, left 140m (road geometry). 100km zone.	10. Minor	Low	Re-grade pavement, install guide posts on corners. Install advance warning T intersection signage on Humbles Road and advance warning side road intersection signage on Preolenna Road east. Linemark intersection.	-	IMG_4731.jpg	145.565018	-41.0813751	379462.622	5451217.457	<a href="#">View Photo</a>	<a href="#">View Location</a>
242	Pinebrae Road			14/11/2019	Unsealed	A community hall, a couple houses then into a forest track, low speed environment - minor. Split Y intersection at Preolenna (or separate access to community hall). Intersection with Preolenna Road: SISD right 140m (road geometry), left 100m (trim trees improve a little bit). No signage or linemarking.	10. Minor	Low	Install advance warning T intersection signage on Pinebrae Road and advance warning side road intersection signage on Preolenna Road east. Linemark intersection.	-	IMG_4731.jpg	145.565018	-41.0813751	379462.622	5451217.457	<a href="#">View Photo</a>	<a href="#">View Location</a>
243	Meunna Road	Preolenna Road	Prusna Road	14/11/2019	Unsealed	Gravel road warning signage provided. Narrow bridge with guard rail with 1 G.R.E.A.T. terminal and 3 bull nose terminals - on curved road geometry so leave. Good bridge signage. Tight corners, some with drop offs on outside of corner. VERY steep drop on section - add lots of guide posts here to alert. Second bridge heading west (Flowerdale River) - bridge signage good, guard rail with bull nose terminals - eastern and could be upgraded to G.R.E.A.T. terminals. Tree fallen over the road - alerted Council to this at the time. Another bridge heading west. Bridge signage good. Guard rail with 2 G.R.E.A.T. terminals and 2 bull nose - retain as is for road geometry.	10. Minor	Medium	Install guide posts on corners where insufficient and along edges where there are large drop offs. Replace eastern bull nose terminals on Flowerdale River bridge with G.R.E.A.T. terminals.	-	IMG_4840.jpg	145.510213	-41.1066649	379332.423	5448006.757	<a href="#">View Photo</a>	<a href="#">View Location</a>
244	Sculthorpes Road			14/11/2019	Unsealed	Forest track. Has guide posts, narrow, very low traffic. Very minor. Straight, water draining down road, otherwise no issues in the context of this rural road safety audit.	10. Minor	Low	Consider re-grading road to provide additional cross-fall to allow rainfall to run off of road.	-	IMG_4858.jpg	145.504517	-41.1088662	374434.745	5447866.828	<a href="#">View Photo</a>	<a href="#">View Location</a>
245	Meunna Road	Prusna Road	Keith River Road	14/11/2019	Unsealed	Forest road (no power poles along road). Wide road pavement between Hills Road and Keith River Road (narrows once continuing to Myalla Road). Good width of cleared verge (5m or so). Some corners with no guide posts.	8. Feeder	Low	Install guide posts on corners where insufficient.	-	IMG_4911.jpg	145.470505	-41.0814781	371528.875	5451071.114	<a href="#">View Photo</a>	<a href="#">View Location</a>
246	Hills Road			14/11/2019	Unsealed	Straight forest track, no through road. Some potholes. Generally ok, cleared verge maintained 2-3m. Intersection with Meunna Road: No priority (main road creates a modified T intersection but all unsealed roads). Guideposts bent over. No signage or linemarking. SISD right 110m, left 200m (road crests). Low traffic environment.	10. Minor	Low	Install advance warning give way and give way signage on Hills Road. Install advance warning side road intersection signage on Meunna Road west. Reinstate bent guide posts around intersection.	-	IMG_4890.jpg	145.492172	-41.094265	373366.179	5449063.177	<a href="#">View Photo</a>	<a href="#">View Location</a>
247	Keith River Road			14/11/2019	Unsealed	Minor no through road with good width of cleared verge, no guide posts, otherwise good. Intersection with Meunna Road: SISD 80m right, 100m left (road geometry). No signage, intersection unsealed.	10. Minor	Low	Install guide posts on corners. Install advance warning T intersection signage on minor road and advance warning side road intersection signage on major road (both directions).	-	IMG_4914.jpg	145.487422	-41.0839462	371269.39	5450702.476	<a href="#">View Photo</a>	<a href="#">View Location</a>
248	Newhaven Track			14/11/2019	Unsealed	Minor no through road, very minimal use of guide posts, need to add more.	10. Minor	Low	Install guide posts where insufficient.	-	IMG_4943.jpg	145.468231	-41.0710487	371312.187	5452225.505	<a href="#">View Photo</a>	<a href="#">View Location</a>
249	Newhaven Track	Myalla Road	Intersection	14/11/2019	Unsealed	SISD 80m either side (road geometry) but curves on main road make for a low speed environment / very low traffic volumes. No signage, unsealed intersection.	8. Feeder	Low	Install advance warning T intersection signage on minor road and advance warning side road intersection signage on major road (both directions).	-	IMG_4947.jpg	145.471329	-41.0863245	371569.11	5452421.488	<a href="#">View Photo</a>	<a href="#">View Location</a>
250	Myalla Road	Keith River Road	Lobbs Bridge	14/11/2019	Unsealed	Pavement condition poor - bumpy, some potholes and for a 'Feeder' ranked road pavement is narrow with soft edges (north of Keith River Road). Boggy section near quarry / either side of Newhaven Track (worse north of here for 2-5km) - Saturated ruts in road. Tight corners with no advance warning curve / advisory speed signage. Lobbs Bridge with guard rail with 1 G.R.E.A.T. terminal and 3 bull nose terminals (could upgrade), narrow and no one lane advisory signs, other signs were good.	8. Feeder	High	Reconstruct road pavement where badly damaged / saturated and improve road drainage.	\$ 390,000	IMG_4959.jpg	145.475708	-41.0620193	371922.846	5453238.825	<a href="#">View Photo</a>	<a href="#">View Location</a>
251	Myalla Road	Keith River Road	Lobbs Bridge	14/11/2019	Unsealed	As above.	8. Feeder	Low	Install advance warning corners / advisory speed signage. Replace bull nose terminals with G.R.E.A.T. terminals. Regrade pavement where minor rutting / potholing and consider widening pavement through narrow sections or downgrading road	-	IMG_4926.jpg	145.465546	-41.0778542	371098.903	5451466.016	<a href="#">View Photo</a>	<a href="#">View Location</a>



Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between Road A	Road B														
252	Myalla Road	Lebbs Bridge	Lapoinya Road	14/11/2019	Mixed (sealed and unsealed)	Drop offs on corners heading downhill - some guideposts present- would benefit from corner signage heading down the hill. No signage advising gravel entering the gravel section of road (southbound).	8. Feeder	Medium	Install advance warning corner and advisory speed signage for sharp corners on downhill gradient. Install gravel road warning sign at transition from sealed to unsealed.	-	IMG_4986.jpg	145.493806	-41.0472505	373420.301	5454904.341	<a href="#">View Photo</a>	<a href="#">View Location</a>
253	Myalla Road	Lapoinya Road	Intersection	14/11/2019	Sealed	No signage or linemarking. SISO 250m+ left, 100m right (road geometry).	8. Feeder	Medium	Install advance warning T intersection signage on the minor road and advance warning side road intersection signage on the major road (north approach). Linemark the intersection.	-	IMG_4997.jpg	145.503586	-41.0383946	374220.348	5455002.176	<a href="#">View Photo</a>	<a href="#">View Location</a>
254	Lapoinya Road	Myalla Road	Change from unsealed to sealed	14/11/2019	Unsealed	Big dead tree on outside of curve with few guide posts. Some potholes and ponding on side of pavement. Some sharp corners, but low speed environment - sight through corners bad due to cuttings - more guideposts needed. Big sweeping downhill bends with limited guide posts - add more. Location with steep drop off - closely spaced guide posts present here - good.	8. Feeder	Low	Install additional guide posts on corners where insufficient. Add guide posts particularly where curves are co-located with downhill gradients and poor sight through corners.  Remove dead tree within the clear zone. Re-grade road to remove potholes.	-	IMG_5006.jpg	145.500232	-41.0414696	374700.765	5455068.061	<a href="#">View Photo</a>	<a href="#">View Location</a>
255	Kimberleys Hill Road	Lapoinya Road	Intersection	14/11/2019	Unsealed	Unidirectional hazard sign currently used incorrectly on either side of Lapoinya Road, no other intersection signage, unsealed intersection. SISO left 280m+, right 50m (crest).	8. Feeder	Low	Install advance warning T intersection signage on minor road and advance warning curve with side road intersection signage on major road each to reinforce hierarchy.	-	IMG_5026.jpg	145.515366	-41.0455666	375224.085	5455122.023	<a href="#">View Photo</a>	<a href="#">View Location</a>
256	Kimberleys Hill Road			14/11/2019	Unsealed	Limited guide posts on bends and power pole with guy wire on bend, add more guideposts to direct around corner.	10. Minor	Low	Install additional guide posts on corners where insufficient and to highlight power pole and guy wire on corner.	-	IMG_5019.jpg	145.515244	-41.0477867	375216.027	5454876.283	<a href="#">View Photo</a>	<a href="#">View Location</a>
257	Nelsons Road			14/11/2019	Unsealed	Minor road - reasonable use of guide posts in general and on curves.  Intersection with Lapoinya Road: 3-way giveaway with Lapoinya Road - hierarchy not clear. SISO right 30m (road geometry), left 180m. No signage and unsealed intersection.	10. Minor	Medium	Install advance warning stop and stop signage on minor road and advance warning curve with side road intersection signage on major road each to reinforce hierarchy. Consider removing free slump and earthworks to excavate into cutting to right of intersection to improve sight to intersection.	-	IMG_5086.jpg	145.530228	-41.0368489	376460.635	5455869.643	<a href="#">View Photo</a>	<a href="#">View Location</a>
258	Lapoinya Road	Change from unsealed to sealed	Colgraves Road	14/11/2019	Sealed	Steep drop offs, trees close to edge of road, wide road seal, limited guide posts on corners.	8. Feeder	Medium	Install guide posts along sections of steep drop off. Install guide posts on corners where insufficient.	-	IMG_5105.jpg	145.571804	-41.0066893	379908.085	5459185.14	<a href="#">View Photo</a>	<a href="#">View Location</a>
259	Colgraves Road			14/11/2019	Unsealed	Big headwall on culvert, but low speed environment, single pair of guide posts provided. Very big bend with drop and no guide posts. Second corner similar. Pavement uneven in some sections, ok but not ideal. Power pole on edge of road on outside of bend.	10. Minor	Medium	Install guide posts along sections of steep drop off. Install guide posts on corners where insufficient. Delineate power pole on outside of bend.	-	IMG_5119.jpg	145.570587	-41.0031776	379788.191	5459908.248	<a href="#">View Photo</a>	<a href="#">View Location</a>
260	Colgraves Road	Lapoinya Road	Intersection	14/11/2019	Sealed	SISO right 200m, left 250m+. No signage or linemarking. Lots of gravel over the road.	8. Feeder	Low	Install advance warning T intersection signage on minor road and advance warning side road intersection signage on the major road (western approach). Linemark intersection.	-	IMG_5429.jpg	145.574539	-41.0093613	380131.767	5459225.202	<a href="#">View Photo</a>	<a href="#">View Location</a>
261	Myalla Road	Scotts Road	Lapoinya Road	14/11/2019	Sealed	Wide road seal. Steep drop off on side of road, limited guideposts. Large culvert drop, corners with limited guideposts. 2x CAMS at Masons Road, should be 3x. Good use of guideposts on corner that isn't super tight but downhill and drop off behind - Tighter post spacing than standard but good use to influence driver behaviour. Bridge with guard rail with 4 bull nose terminals (upgrade) and no bridge signage. Power pole on outside of corner - delineate. Add CAMs from opposite direction at Masons Road as well (currently 2x in one direction. Advance warning curve / advisory speed / CAMs likely required on corner north of Hawleys Road - straight on approaches so build up speed. Verge not cut next to drop off - false sense of safety, also add more guide posts here.	9. Local Access	Medium	Install additional guide posts on corners where insufficient and along sections with drop offs. Install CAMs where missing (should be in groups of 3 minimum). Install CAMs in reverse direction on Masons Road corner. Consider advance warning curve / advisory speed / CAMs on corner north of Hawleys Road. Ensure verge is well maintained so that it doesn't hide roadside hazards from drivers. Upgrade bull nose terminals on bridge to G.R.E.A.T. terminals. Install correct bridge signage.	-	IMG_5236.jpg	145.518707	-41.0283786	375468.723	5457257.659	<a href="#">View Photo</a>	<a href="#">View Location</a>
262	Hawleys Road			14/11/2019	Unsealed	Minor no through road. Trees very close to road, generally ok for the type of road, gully drop.	10. Minor	Low	Delineate trees close to the road.	-	IMG_5196.jpg	145.545715	-41.0146294	377717.603	5458800.386	<a href="#">View Photo</a>	<a href="#">View Location</a>
263	Hawleys Road	Myalla Road	Intersection	14/11/2019	Sealed	No signage or linemarking. SISO left 280m+, right 50m (crest, coming downhill - if grass in verge gets overgrown would impact further.)	9. Local Access	Medium	Install advance warning stop and stop signage on minor road and advance warning side road intersection signage on the major road (southern approach). Linemark intersection, with stop bar. Maintain verge to ensure grass doesn't impact intersection sight further.	-	IMG_5196.jpg	145.545715	-41.0146294	377717.603	5458800.386	<a href="#">View Photo</a>	<a href="#">View Location</a>
264	Masons Road			14/11/2019	Unsealed	Narrow, some guide posts, fairly straight road, more guide posts on corners. Fence on both sides making it a narrow environment. Trees and power pole close to road.  Intersection with Myalla Road: SISO 100m right (road geometry) 250m left. No signage or linemarking (sealed intersection).	10. Minor	Low	Install guide posts on corners where insufficient. Install advance warning T intersection signage on minor road and advance warning side road intersection signage on the major road (southern approach).	-	IMG_5193.jpg	145.51628	-41.0259438	375432.005	5457305.519	<a href="#">View Photo</a>	<a href="#">View Location</a>
265	Edwards Road			14/11/2019	Unsealed	Intersection with Myalla Road: No signage, unsealed intersection. SISO 130m right, 120m left (road geometry). Maybe add guideposts but also really just a	10. Minor	Low	Install advance warning side road intersection signage on major road in either direction.	-	IMG_5193.jpg	145.51628	-41.0259438	375432.005	5457305.519	<a href="#">View Photo</a>	<a href="#">View Location</a>

Waratah-Wynyard Council - Rural Road Safety Audit																	
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	Road	Between Road A	Road B														
266	Scotts Road			14/11/2019	Unsealed	Gravel warning sign present. Pavement surface uneven / potholes in patches. Corner travelling downhill with drop off on outside - lacking guide posts. Multiple drop offs with minimal guideposts. Tight corners here with poor stopping sight distance. Identified site by Council - Winding alignment, gravel, restricted sight distances (eastern end of road) - Blind tight corner x2 near properties. Tight bend down to bridge needs more guideposts or CAMs, advisory corner and side road sign from bridge side up to one of the tight corners, could add winding road signage after this. Bridge eastern end - 4 bull nose (could upgrade to G.R.E.A.T.) signage ok.	10. Minor	High	1.2km eastern end of Scotts Road has poor geometry and sight through corners. Install advance warning winding road signage with advisory speed signage for this section and CAMs where necessary. Install corner mirrors for property on inside of bend (53 Scotts Road) and trim vegetation at this bend (likely within property). Slash vegetation blocking sight on inside of corners west of Chalks Road.	\$ 47,000	IMG_5322.jpg	145.591248	-40.9960234	381518.363	5460395.666	View Photo	View Location
267	Scotts Road			14/11/2019	Unsealed	As above.	10. Minor	Medium	Install additional guide posts on corners where insufficient and along sections with drop offs.	-	IMG_5333.jpg	145.598994	-40.997963	382142.73	5460523.462	View Photo	View Location
268	Scotts Road			14/11/2019	Unsealed	As above.	10. Minor	Low	Regrade pavement through sections where it is falling. Install advance warning narrow bridge and one lane signage on bridge approaches. Upgrade bull nose terminals to G.R.E.A.T. terminals.	-	IMG_5296.jpg	145.584381	-41.0016747	380946.577	5460091.993	View Photo	View Location
269	Scotts Road	Colgraves Road	Intersection	14/11/2019	Unsealed	No signage. Unsealed intersection. SISD sub-standard to the left.	10. Minor	Low	Install advance warning T intersection signage on minor road and advance warning side road signage on major road (western approach).	-	IMG_5278.jpg	145.57016	-41.0020027	379750.143	5460035.091	View Photo	View Location
270	Chalks Road			14/11/2019	Unsealed	Very short, straight road to a property's gate. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
271	Scotts Road	Lapoinya Road	Intersection	14/11/2019	Sealed	No signage or linemarking. SISD 50m left and right (road geometry). Y-intersection.	8. Feeder	High	Install advance warning stop and stop signage on minor road. Install advance warning side road intersection signage on major road (both directions). Linemark intersection, with stop bar.	\$ 11,000	IMG_5346.jpg	145.601425	-40.9974518	382371.519	5460563.895	View Photo	View Location
272	Lapoinya Road	Colgraves Road	Preolenna Road	14/11/2019	Sealed	Recently constructed bridge over Flowendale River - no bridge signage, has guard rail with bull nose terminals. Centreline linemarking provided through the bridge. Needs more guideposts through bends (and downhill). Power poles - one on outside of bend past east of Colgraves Road, this bend is also lacking guide posts. Advance warning winding road and advisory speed signage provided for eastbound just before the Flowendale River Bridge.	8. Feeder	Low	Install bridge signage. Consider upgrading bull nose terminals to G.R.E.A.T. terminals (however given the age of these terminals, preference would be to upgrade older terminals elsewhere first). Install guide posts on corners where insufficient and along sections of decent. Delineate power pole on corner east of Colgraves Road.	-	IMG_5451.jpg	145.606552	-40.9974136	382802.675	5460595.03	View Photo	View Location
273	Capells Road			14/11/2019	Unsealed	Minor, narrow, no through road. Steep but straight. Guide posts provided only at culverts. Intersection with Lapoinya Road: SISD right 180m, left 120m. No signage or linemarking.	10. Minor	Low	Install advance warning T intersection signage on minor road. Install advance warning side road intersection signage on major road (both directions). Install guide posts along steep sections of road.	-	IMG_5357.jpg	145.597061	-41.004425	382016.909	5459803.683	View Photo	View Location
274	Bowkett's Road			14/11/2019	Unsealed	No through road providing access to 3-4 properties from Capells Road. No guideposts, low speed environment. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
275	Beatties Road			14/11/2019	Unsealed	Some guide posts provided, trees, narrow on corners. OK. Intersection with Lapoinya Road: No signage or linemarking (over crest on Beatties Road). SISD left 82m (improve by trimming vegetation, right 110m (geometry)).	10. Minor	Low	Install advance warning T intersection signage on minor road. Install advance warning side road intersection signage on major road (both directions). Linemark intersection. Trim vegetation to improve intersection sight.	-	IMG_5397.jpg	145.586899	-41.0084528	381171.324	5459231.842	View Photo	View Location
276	Lyons Road			14/11/2019	Unsealed	Winding road. Minimal but reasonable use of guide posts for the expected traffic volumes and road environment. Intersection with Lapoinya Road: SISD left 70m (road geometry, made worse by grass in verge)	10. Minor	Low	Install advance warning T intersection signage on minor road. Install advance warning side road intersection signage on major road (western approach). Linemark intersection. Ensure grass in verge to west is maintained as to not negatively impact intersection sight.	-	IMG_5424.jpg	145.582108	-41.008419	380769.136	5459182.214	View Photo	View Location
277	Lapoinya Road	Preolenna Road / Pages Road	Intersection	14/11/2019	Sealed	Busy intersection (some aspects covered earlier under Pages Road also). School bus pick up location, bus pick up sighted during audit. High risk location. SISD right 50m (fence blocking), left 140m (road geometry). Advance warning cross road intersection (incorrect use) signage, advance warning stop signage and stop signage provided. Linemarking provided but needs refreshing (whole intersection). Identified Site by Council - Hedge restricting sight lines - Large hedge just before intersection has grown up to edge of road for 20m length.	7. Collector	High	Remove advance warning cross road intersection signage near Preolenna Road. Refresh intersection linemarking (and extend centreline back further from intersection). Install second stop sign on right hand side of road at intersection. Trim back hedge along side of road.	\$ 9,000	IMG_5458.jpg	145.613281	-40.9964667	383367.008	5460706.639	View Photo	View Location
278	Lapoinya Road	Preolenna Road / Pages Road	Intersection	14/11/2019	Sealed	As above.	7. Collector	Medium	Consider realigning fence of 3 Lapoinya Road along Preolenna Road to improve intersection sight.	-	IMG_5461.jpg	145.613663	-40.9962367	383366.668	5460734.98	View Photo	View Location
279	Preolenna Road	Pages Road	Shutters Road	14/11/2019	Sealed	Advance warning concealed entrance signage provided north of Pages Road - good. Big sweeping downhill bend with steep drop - Lots of guide posts provided but need CAMs / corner and or advisory speed signage. Faded centreline on road north of Camerons Road, no RRPMS. Property access for two houses, short straight road, OK - more of a driveway.	8. Feeder	Medium	Install advance warning corner signage and potentially advisory speed / CAMs signage on corner with drop off north of Pages Road. Refresh centreline linemarking and install RRPMS.	-	IMG_5472.jpg	145.609618	-40.9857979	383056.845	5461688.613	View Photo	View Location
280	McGees Road			14/11/2019	Unsealed	Intersection with Preolenna Road: SISD left 70m (fence), right 40m (crest) - No signage, side road unsealed to major road.	10. Minor	Medium	Install advance warning side road intersection signage on major road from both directions. Install stop signage on minor road.	-	IMG_5482.jpg	145.615021	-40.9818573	383487.601	5462333.328	View Photo	View Location



Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between Road A	Road B														
281	Cameron Road			14/11/2019	Unsealed	Straight, fences either side promote low speed, trees close but straight and only farm access. OK. Some guideposts there.  Intersection with Preolenna Road: No signage or linemarking (only short width sealed on side road). SISD left 250m+, right 200m	10, Minor	Low	Install advance warning T intersection signage on minor road.	-	IMG_5483.jpg	145.616058	-40.9809456	383573.238	5462435.622	<a href="#">View Photo</a>	<a href="#">View Location</a>
282	Stuttards Road			14/11/2019	Unsealed	Straight road, fences narrow on either side promote a low speed, some guide posts, OK for farm access.  Intersection with Preolenna Road: No signage, unsealed side road. SISD left 230m (tree growing that will impact in future), right 160m (curve).	10, Minor	Low	Install advance warning T intersection signage on minor road. Maintain tree to the left to ensure it doesn't block intersection sight	-	IMG_5502.jpg	145.622742	-40.980175	384134.209	5462530.356	<a href="#">View Photo</a>	<a href="#">View Location</a>
283	Preolenna Road	Stuttards Road	Boags Road	14/11/2019	Sealed	Corner 800m east of Stuttards Road has had 4 crashes at this location in last 5 years (one of these a Serious Injury). - a few guide posts present on this corner, poor stopping sight distance through corner due to uncut verge on inside and power poles on outside of bend. Next corner with advisory speed - consider CAMs also. Big S-bend with culvert drops and power poles on outside of bend. Other tight bends after this, and a treatment needed on corners for this section west of Boags Road. Bridge north of Robin Hill Road with guard rail with G.R.E.A.T. terminals but no bridge signage. Centreline linemarking present but no RRPMS. S-bend with advisory sign and speed but few guideposts - add or consider CAMS.	8, Feeder	High	Install advance warning curve signage and consider advisory speed / CAMs signage, also cut verge on inside of corner to increase visibility and delineate power poles on outside of corner.	\$ 15,000	IMG_5508.jpg	145.628723	-40.9786884	384631.316	5462925.333	<a href="#">View Photo</a>	<a href="#">View Location</a>
284	Preolenna Road	Stuttards Road	Boags Road	15/11/2019	Sealed	As above.	8, Feeder	Medium	Install winding road signage for section west of Boags Road with multiple curves, install additional guide posts on corners where insufficient and consider advisory signage and CAMs here also. Install RRPMS.	-	IMG_5529.jpg	145.642593	-40.9722214	385790.557	5463439.455	<a href="#">View Photo</a>	<a href="#">View Location</a>
285	Boags Road			14/11/2019	Unsealed	Short road with a few property accesses, guide posts used.  Intersection with Preolenna Road: SISD right 80m, left 125m (can improve slightly if trim trees). No signage or linemarking.	10, Minor	Low	Install advance warning T intersection signage on minor road. Install advance warning side road intersection signage on major road. Linemark intersection. Trim trees to left to improve intersection sight.	-	IMG_5552.jpg	145.645248	-40.9725791	386014.737	5463392.112	<a href="#">View Photo</a>	<a href="#">View Location</a>
286	Preolenna Road	Boags Road	Bass Highway	15/11/2019	Sealed	Advisory corner with side road signage present that doesn't meet current standard either side of Marshall's Road and Robin Hill Road. Centreline linemarking, no RRPMS. Bridge with guard rail with G.R.E.A.T. terminals, no bridge signage. Good use of guide posts through S bend (advisory corners and speed signage also present). Corner just east of Bass Highway is through a crest and has house and driveways at top of crest.	8, Feeder	Medium	Corner just east of Bass Highway - Add CAMs to direct traffic on correct road when crossing the crest, both sides of driveway and double sided. Also install advance warning concealed driveway signage either side of the crest.	-	IMG_5786.jpg	145.680549	-40.9685097	386986.37	5463900.555	<a href="#">View Photo</a>	<a href="#">View Location</a>
287	Preolenna Road	Boags Road	Bass Highway	15/11/2019	Sealed	As above.	8, Feeder	Low	Replace advisory corner with side road intersection signage with signs that meets current AS 1742. Install RRPMS. Install bridge signage.	-	IMG_5751.jpg	145.657609	-40.9704208	387055.983	5463658.945	<a href="#">View Photo</a>	<a href="#">View Location</a>
288	Marshall's Road			14/11/2019	Mixed (sealed, unsealed, sealed)	Truck access and advisory speed limit signage provided. Some crests which prevent visibility of subsequent horizontal curves. Very tight 90 degree bend on sealed section - have used a mirror to give visibility around the corner, should add turn and advisory speed sign to it, second sharp turn only 75m onward.	9, Local Access	High	Install advance warning reverse turn and advisory speed signs on two tight 90 degree bends next to each other and install guide posts on the outside of each of these bends.	\$ 8,000	IMG_5573.jpg	145.648743	-40.9820213	386324.847	5462359.556	<a href="#">View Photo</a>	<a href="#">View Location</a>
289	Marshall's Road	Preolenna Road	Intersection	14/11/2019	Sealed	Incorrect advance warning side road intersection signage installed - remove. Advance warning give way and give way also present. Very steep on side road on approach to intersection and on the corner of the main road - less than ideal intersection location and geometry. Linemarking faded. SISD right 180m, left 120m (road geometry).	8, Feeder	Medium	Remove incorrect side road intersection signage from minor road. Refresh intersection linemarking and install additional give way sign on the right hand side of road.	-	IMG_5596.jpg	145.653564	-40.974411	386717.405	5463210.885	<a href="#">View Photo</a>	<a href="#">View Location</a>
290	Robin Hill Rd			14/11/2019	Mixed (sealed and unsealed)	Short drop offs, generally wide unsealed section of road, downhill corners with power pole and drop off on outside, limited guide posts. Steep with drops, lobster ponds and plant business at end so possibly greater vehicle traffic here than other similar type roads. Gully crossing but reasonable flat verge before drop on either side of the road.	9, Local Access	Medium	Install additional guide posts on corners where insufficient and along drop offs. Install gravel road warning signage. Delineate power poles on outside of curves. Consider CAMs on corners with drop offs behind them.	-	IMG_5644.jpg	145.631592	-40.956792	384853.555	5464151.287	<a href="#">View Photo</a>	<a href="#">View Location</a>
291	Gates Road			14/11/2019	Mixed (sealed and unsealed)	Tight S-bend but in residential low speed zone, add signage from both ends as very tight bends, not much superelevation. Two bridges in a row, correct bridge signage, both with guard rail with bull nose terminals (upgrade) - one of these should be left as bull nose for adjacent gate access. Steep drop off on side of road and corner with no guide posts. Guard rail over gully crossing with G.R.E.A.T. terminals - no signage. Steep drop off on side - add guideposts or more. gully crossing - steep drops on side. Add guideposts in general.	9, Local Access	Medium	Install advance warning reverse turn and advisory speed signage for tight turns near the train line. Consider lowering speed through this residential section of Robin Hill Road and Gates Road to 60km/h. Install hazard boards on guard rail north of Margetts Road.	-	IMG_5683.jpg	145.65593	-40.9871593	386904.089	5464018.705	<a href="#">View Photo</a>	<a href="#">View Location</a>
292	Margetts Road			14/11/2019	Unsealed	Driveway for single property - short and straight - very minor. Bridge with guard rail and bull nose terminals, no signage on bridge.	10, Minor	Low	Install hazard signage on guard rail over bridge.	-	IMG_5675.jpg	145.657852	-40.9823489	387057.818	5464555.269	<a href="#">View Photo</a>	<a href="#">View Location</a>
293	Gates Rd	Bass Highway	Intersection	14/11/2019	Sealed	Linemarking good, give way signage present. SISD right 250m+, left 250m+	5, State Highway	Low	Install advance warning give way signage and hazard board.	-	IMG_5701.jpg	145.659882	-40.9485446	387201.543	5466312.372	<a href="#">View Photo</a>	<a href="#">View Location</a>
294	Gates Road	Robin Hill Road	Intersection	14/11/2019	Sealed	SISD 80m right (crest), 100m left (to next give way onto Preolenna Road) - low speed residential environment. Give way signage on minor road and advance warning side road intersection signage on major road to the right provided (good), linemarking faded. Parents and school kids observed walking around this area (school pickup).	9, Local Access	Medium	Refresh linemarking. Install advance warning give way signage on minor road. Consider lowering speed through this residential section of Robin Hill Road and Gates Road to 60km/h.	-	IMG_5742.jpg	145.655304	-40.9878421	386852.58	5463942.155	<a href="#">View Photo</a>	<a href="#">View Location</a>

Waratah-Wynyard Council - Rural Road Safety Audit																	
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	Road	Between Road A	Road B														
295	Robin Hill Road	Preleenna Road	Intersection	14/11/2019	Sealed	Give way signage provided. Linemarking faded, some RRPMS on bend also. Lots of guide posts on approach. SIDS right 150m, left 250m (road geometry).	8. Feeder	Low	Refresh linemarking. Install advance warning give way signage. Install advance warning side road intersection signage on major road to the west.	-	IMG_5747.jpg	145.055487	-40.9860317	389869.327	5483854.736	<a href="#">View Photo</a>	<a href="#">View Location</a>
296	Robin Hill Road	Preleenna Road	Intersection	14/11/2019	Sealed	Identified site by Council - sight vision when turning right from Preleenna Road (major road) into Robin Hill Road (minor road), coming from the highway, due to paling fence south-west along Preleenna Road inhibiting sight of oncoming traffic to turn across. One (serious injury) crash at this intersection in the last 5 years. Sight distance to oncoming traffic approximately 55m. Required minimum gap sight distance is based on the 85th percentile speed of approaching vehicles for the through movement (eastbound vehicles on Preleenna Road). This corner already has an advisory speed of 25km/h. When testing this corner, we could not go more than 60km/h, and realistically, even 50km/h was uncomfortable due to the tight bend on the road. Austroads recommends a minimum gap sight distance of 55m for approach vehicles travelling at 50km/h (and less for vehicles travelling less) - based on this we do not believe this is a major issue.	8. Feeder	Low	Minimum gap sight distance for the right turn Preleenna to Robin Hill Road appears to be sufficient. If there are high traffic volumes making these conflicting movements and this site continues to be an issue then the section of fencing obstructing sight to the south should be replaced with pig fence similar to what is provided for this property closer to the intersection.	-	IMG_5849.jpg	145.055095	-40.9867729	389883.705	5483839.278	<a href="#">View Photo</a>	<a href="#">View Location</a>
297	Preleenna Road	Bass Highway	Intersection	14/11/2019	Sealed	Give way signage, splitter island, linemarking present. Needs advance warning sign and hazard board. SIDS left 250m, SIDS right 150m (trimming vegetation would improve slightly - grass and shrubs in verge).	5. State Highway	Medium	Install advance warning give way signage and hazard board. Install advance warning side road intersection signage on major road (eastern approach). Trim verge vegetation on eastern approach to improve intersection sight.	-	IMG_5782.jpg	145.083578	-40.9674263	389231.018	5484024.544	<a href="#">View Photo</a>	<a href="#">View Location</a>
298	Baulds Road			14/11/2019	Unsealed	Straight road, some steep drops, amongst paddocks with fences either side (low speed environment). A sharp 90 degree bend with gate in front and power pole on outside, difficult to use guide posts here due to gates. Second corner with similar issue. Very low volume road.	10. Minor	Low	Install advance warning turn signage either side of sharp corners.	-	IMG_5817.jpg	145.081080	-40.9505348	389043.520	5485897.318	<a href="#">View Photo</a>	<a href="#">View Location</a>
299	Baulds Road	Bass Highway	Intersection	14/11/2019	Sealed	Give way signage and linemarking present. Pothole in pavement at intersection. SIDS 250m+ right 250m+ left.	5. State Highway	Low	Install advance warning give way signage and hazard board. Repair pavement pothole.	-	IMG_5810.jpg	145.070305	-40.9501141	388857.599	5484941.881	<a href="#">View Photo</a>	<a href="#">View Location</a>
300	Pecks Road			14/11/2019	Unsealed	No left turn lane in off Bass Hwy. No guide posts on turn. Some elsewhere. Could add on turn signage on sharpest corner, but low speed environment, fences close so low risk.	9. Local Access	Low	Install guide posts on corner. Install advance warning turn signage on 90 degree corner.	-	IMG_5831.jpg	145.090854	-40.9501238	390350.951	5483852.846	<a href="#">View Photo</a>	<a href="#">View Location</a>
301	Pecks Road	Bass Highway	Intersection	14/11/2019	Sealed	Linemarking good but no signage (to Bass Hwy) at all. SIDS left 200m, right 250m+.	5. State Highway	Low	Install advance give way and give way signage on minor road. Install advance warning side road signage on major road to the south. Install hazard board.	-	IMG_5837.jpg	145.094122	-40.9718513	390125.598	5483548.625	<a href="#">View Photo</a>	<a href="#">View Location</a>
302	Mackenzies Road			15/11/2019	Unsealed	Narrow, overgrown verges, straight, between paddocks. Some drop off (minor). 90 degree bend with no guide posts. Guide posts provided at culverts. Very minor road only servicing one property past the two which front Bass Highway. Low risk.	10. Minor	Low	Install guide posts on 90 degree corner.	-	IMG_5863.jpg	145.055441	-40.9427376	385821.232	5486729.258	<a href="#">View Photo</a>	<a href="#">View Location</a>
303	Mackenzies Road	Bass Highway	Intersection	15/11/2019	Sealed	Linemarking good and give way signage present. Give way sign rotated in wrong direction. SIDS left 170m, right 150m.	5. State Highway	Low	Rotate give way sign to face correct direction. Install advance warning side road intersection signage on major road from both approaches. Install hazard board.	-	IMG_5872.jpg	145.05477	-40.9484645	385771.118	5486314.655	<a href="#">View Photo</a>	<a href="#">View Location</a>
304	Ridges Road			15/11/2019	Unsealed	Narrow, overgrown verges, straight road, between paddocks. Services 1, 2 houses. 90 degree bend with 1 guide post that's bent over.	10. Minor	Low	Fix damaged guide post and add more guide posts on corner.	-	IMG_5894.jpg	145.047003	-40.9510422	389125.211	5485798.381	<a href="#">View Photo</a>	<a href="#">View Location</a>
305	Ridges Road	Bass Highway	Intersection	15/11/2019	Sealed	Linemarking good and give way sign (old). SIDS left 250m+, right 250m+.	5. State Highway	Low	Install advance warning give way signage and hazard board. Consider replacing give way signage.	-	IMG_5892.jpg	145.047858	-40.9470749	389190.381	5486237.816	<a href="#">View Photo</a>	<a href="#">View Location</a>
306	Sampsons Lane			15/11/2019	Unsealed	Very minor road - servicing a few properties. Big dam next to road with water level only 100-200mm below top of pavement - flood and pavement damage risk (low). Could build up road level here but given number of properties - very low risk.	10. Minor	Low	Install guide posts along section next to dam / water. Consider lifting pavement to give greater freeboard from dam.	-	IMG_5904.jpg	145.042838	-40.9429826	385700.729	5486687.886	<a href="#">View Photo</a>	<a href="#">View Location</a>
307	Sampsons Lane	Bass Highway	Intersection	15/11/2019	Sealed	Give way signage present, no linemarking. SIDS 250m+ in both directions.	5. State Highway	Low	Install advance warning give way signage and hazard board. Linemark intersection.	-	IMG_5909.jpg	145.043295	-40.9453011	385803.227	5486428.879	<a href="#">View Photo</a>	<a href="#">View Location</a>
308	Dobsons Lane			15/11/2019	Mixed (sealed and unsealed)	40km/h area sign present - very faded. School on road. Otherwise a short, straight road, plenty of guide posts. Speed hump signage for school entrance present.	10. Minor	Low	Replace 40km/h area signage.	-	IMG_5955.jpg	145.037192	-40.9459152	385290.573	5486352.715	<a href="#">View Photo</a>	<a href="#">View Location</a>
309	Dobsons Lane	Bass Highway	Intersection	15/11/2019	Sealed	Give way signage, linemarking, blisters/jellybeans and RRPMS provided. Opposite Fists Lane (cross road intersection with Bass Highway). Ponding on corner of pavement. SIDS right 150m, left 150m (80km/h zone on Bass Highway)	5. State Highway	Low	Install advance warning give way signage on minor road. Install advance warning cross road intersection signage on major road (both directions). Repair pavement at ponding location if it continues to deteriorate.	-	IMG_5908.jpg	145.037192	-40.9459688	385290.866	5486345.787	<a href="#">View Photo</a>	<a href="#">View Location</a>
310	Fists Lane			15/11/2019	Unsealed	Limited guide posts, 90 degree bends with no guide posts. Low speed environment with paddock fences close to the road either side. The usual culvert drops, small drop offs and power poles near to the road.	10. Minor	Low	Install guide posts on corners where insufficient and at locations of drop off near the road.	-	IMG_5947.jpg	145.030124	-40.9489937	385206.008	5486009.58	<a href="#">View Photo</a>	<a href="#">View Location</a>



Waratah-Wynyard Council - Rural Road Safety Audit																	
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	Road	Between Road A	Road B														
311	Fists Lane	Bass Highway	Intersection	15/11/2019	Sealed	Give way signage and linemarking present. SISO left 150m (partially obstructed by fence), right 250m+ (80km/h zone on Bass Highway).	5. State Highway	Low	Install advance warning give way signage on minor road. Install advance warning cross road intersection signage on major road (both directions). Consider realigning fence to improve intersection sight (although in 80km/h zone so only 25m shy of required SISO).	-	IMG_5947.jpg	145.636124	-40.9489937	385206.008	5468009.56	<a href="#">View Photo</a>	<a href="#">View Location</a>
312	Blackabys Road			15/11/2019	Unsealed	Creek drop off (with guide posts present), steep drop offs. Minor road, only services a few properties, straight (although steep, generally OK). No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
313	Blackabys Road	Bass Highway	Intersection	15/11/2019	Sealed	Give way signage and linemarking present. SISO right 110m (crest) left 250m+ (100km zone left, 80km zone right)	5. State Highway	Low	Install advance warning give way signage and hazard board. Install advance warning side road intersection signage for the eastern approach.	-	IMG_6007.jpg	145.622192	-40.9520073	384036.629	5465656.619	<a href="#">View Photo</a>	<a href="#">View Location</a>
314	Boat Harbour Siding Road			15/11/2019	Unsealed	Drop off and dam on side of road (road also runs down behind dam, below water level), big drop on side. Trees and drops, could add more guideposts - reasonably unsafe road but no through road with only 1 or 2 properties.	10. Minor	Low	Install additional guide posts along sections of road with drop off.	-	IMG_6039.jpg	145.611969	-40.9605484	383193.259	5464894.829	<a href="#">View Photo</a>	<a href="#">View Location</a>
315	Boat Harbour Siding Road	Bass Highway	Intersection	15/11/2019	Sealed	Give way signage and linemarking present. SISO right 140m (road geometry), left 250m+.	5. State Highway	Low	Install advance warning give way signage and hazard board. Install advance warning side road intersection signage for the eastern approach.	-	IMG_6048.jpg	145.610016	-40.9585418	383025.361	5464914.985	<a href="#">View Photo</a>	<a href="#">View Location</a>
316	Morris Road			15/11/2019	Unsealed	Narrow straight farm access - fences close, low speed, guide posts only at a culvert drop, one property at end of road, nothing else. No issues in the context of this type of road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
317	Morris Road	Bass Highway	Intersection	15/11/2019	Sealed	Give way signage and linemarking. SISO left 250m+, right 200m (road geometry).	5. State Highway	Low	Install advance warning give way signage and hazard board. Install advance warning side road intersection signage on major road on western approach.	-	IMG_6024.jpg	145.605637	-40.9579964	382655.868	5464969.652	<a href="#">View Photo</a>	<a href="#">View Location</a>
318	Bramichs Road			15/11/2019	Mixed (sealed and unsealed)	Corner with limited guide posts, small drop off, minimal guide posts, particularly on corners, gully crossing very narrow - guide posts there.	9. Local Access	Low	Install additional guide posts on corners where insufficient and at locations with drops offs near the road.	-	IMG_6058.jpg	145.590134	-40.9665947	381366.56	5463904.191	<a href="#">View Photo</a>	<a href="#">View Location</a>
319	Bramichs Road	Bass Highway	Intersection	15/11/2019	Sealed	Give way, hazard board signage and linemarking present. SISO right 150m, left 200m (road geometry).	5. State Highway	Low	Install advance warning give way signage on minor road. Install advance warning side road intersection signage on major road (both directions).	-	IMG_6149.jpg	145.587967	-40.9610023	381174.179	5464612.078	<a href="#">View Photo</a>	<a href="#">View Location</a>
320	Bramichs Road	Myalla Road	Intersection	15/11/2019	Sealed	Give way signage and linemarking present. Gravel scattered over (sealed) intersection and linemarking. SISO right 150, left 160m (road geometry).	9. Local Access	Low	Install advance warning give way signage on minor road. Install advance warning side road intersection signage on major road (both directions). Consider sealing minor road over longer length to limit spill of gravel onto intersection, particularly as side road is on the outside of a corner of the major road and therefore poses slide out risk.	-	IMG_6077.jpg	145.574142	-40.9755287	380037.067	5462660.556	<a href="#">View Photo</a>	<a href="#">View Location</a>
321	Broomhalls Road			15/11/2019	Mixed (sealed and unsealed)	No guide posts on corner, power poles, small drop off. Road takes a left turn with private access to the right and straight, not clear that the road turns left (see linked photo) - linemark and add guide posts here too. Add guide posts to next corner also. Industrial road. Power pole at end of road in travelled way at 90 degree bend - should delineate, low risk being at end of road.	9. Local Access	Medium	Linemark centreline and edgelines of the road around the corner with access off of it (approx. 1.2km from Bass Highway). Add guide posts at corners where insufficient. Consider reflectorising power pole near end of the road.	-	IMG_6104.jpg	145.584763	-40.9515991	380887.043	5465051.598	<a href="#">View Photo</a>	<a href="#">View Location</a>
322	Broomhalls Road	Bass Highway	Intersection	15/11/2019	Sealed	Give way signage and linemarking provided. SISO left 150m (crest), right 250m+	5. State Highway	Low	Install advance warning give way signage and hazard board. Install advance warning side road intersection signage on major road (eastern approach).	-	IMG_6105.jpg	145.585968	-40.9607315	381005.468	5464639.421	<a href="#">View Photo</a>	<a href="#">View Location</a>
323	Dares Road			15/11/2019	Unsealed	Steep drop off, corner with no guide posts with reasonable drop on outside. Road only services 1 property, no through road - very minor. Intersection with Bramichs Road. No signage, unsealed intersection. SISO left 250m, 135m right (crest)	10. Minor	Low	Install advance warning T intersection signage on minor road. Install advance warning side road intersection signage on major road eastern approach.	-	IMG_6096.jpg	145.578629	-40.9756851	380414.859	5462969.346	<a href="#">View Photo</a>	<a href="#">View Location</a>
324	Rothwells Road			15/11/2019	Unsealed	Limited guide posts on bends, drop off to creek, trees, no guide posts on corners with drop offs. Only services 2 properties - wide pavement for road this minor. Limited sight around corner due to grass growing on cutting. Intersection with Bramichs Road. No signage, unsealed intersection. Minor installed on major road to see around cutting and into side paddock gate (enters into intersection). SISO left 50m (cut grass in verge to help somewhat), right 250m	10. Minor	Low	Install advance warning T intersection signage on minor road. Install advance warning side road intersection signage on major road southern approach. Trim vegetation in verge south of intersection to improve intersection sight.	-	IMG_6135.jpg	145.584427	-40.9708633	380694.007	5463512.553	<a href="#">View Photo</a>	<a href="#">View Location</a>
325	Myalla Road	Bass Highway	Scotts Road	15/11/2019	Sealed	Guard rail with fish tail terminals at the corner of Myalla Road and Bass Highway - requires upgrade. Creek crossing (guide posts provided), but lacking guide posts on corners. South of Swards Road features lots of curves with little advisory signage. Tight corner with poor stopping sight distance due to cutting south of Myalla Station Road - grass growing on it - cut this to improve (38km/h advisory speed around this corner already). Lacking guide posts on sweeping corners. Large logging truck observed using road.	9. Local Access	High	Replace fish tail terminal with G.R.E.A.T. terminal.	\$ 7,000	IMG_6200.jpg	145.573685	-40.9616013	379973.366	5464526.061	<a href="#">View Photo</a>	<a href="#">View Location</a>



Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between Road A	Road B														
326	Myalla Road	Bass Highway	Scotts Road	15/11/2019	Sealed	As above.	9. Local Access	Medium	Consider installing winding road warning signs and / or CAMS signs or individual corner signage for corners south of Swards Road. Install CAMs on corner south of Myalla Station Road. Install additional guide posts on corners where insufficient.	-	IMG_6218.jpg	145.573578	-40.9751472	379988.913	5463022.133	<a href="#">View Photo</a>	<a href="#">View Location</a>
327	Myalla Road	Scotts Road	Intersection	15/11/2019	Sealed	Advance give way warning signage, and give way signage. Linemarking very faded (currently 2 different hold line locations, plus continuity line). Intersection currently gives priority to Myalla Road west and Scotts Road (unsealed, minor road). Myalla Road east gives way. SIDS right 50m (downhill), left 100m uphill - improve by cutting grass in verge. Paddock access road only. Crosses a lake / large dam, water either side only 200mm below surface of road - flood / pavement deterioration risk. Very narrow road, bit of steep drop off but only goes to a paddock at end of road (very low traffic volumes). No issues in the context of this rural road safety audit.	9. Local Access	Medium	Consider changing priority to Myalla Road east / west. Scotts Road is unsealed and ranked as minor, Myalla Road is sealed and ranked as a local access road and install necessary signage and linemarking (or refresh is priority retained). Trim vegetation to improve intersection sight.	-	IMG_6250.jpg	145.560913	-41.0016851	378971.856	5460058.461	<a href="#">View Photo</a>	<a href="#">View Location</a>
328	Lees Creek Road			15/11/2019	Unsealed	Intersection with Myalla Road: No signage, unsealed intersection. SIDS right 180m (cut trees to improve), left 100m (corner, could improve a little by cutting trees - very minor road).	10. Minor	Low	Consider trimming trees to left to improve intersection sight and installing advance warning T intersection signage on minor road and side road intersection signage on major road to the east.	-	IMG_6275.jpg	145.558746	-41.0016708	378780.587	5460057.153	<a href="#">View Photo</a>	<a href="#">View Location</a>
329	Myalla Station Road			15/11/2019	Unsealed	Drop offs, some potholes, low speed environment with close fences, gully crossing with guide posts, no guide posts on corners (very minor road), servicing few properties. Narrow, low speed. Intersection with Myalla Road (in 70km/h zone): Y intersection, no signage or linemarking. SIDS right 220m, left 250m+.	10. Minor	Low	Install advance warning T intersection signage and linemark.	-	IMG_6308.jpg	145.571533	-40.9809036	379827.303	5462380.281	<a href="#">View Photo</a>	<a href="#">View Location</a>
330	Austine Road			15/11/2019	Mixed (sealed and unsealed)	Road goes from unsealed to sealed to unsealed, truck signage. Bend with limited guideposts. Bridge with guard rail with 4 bull nose straight (could upgrade but low priority due to traffic volumes). Bridge has advance narrow warning signage and hazard markers, needs 'one lane' added to sign. Sealed middle section, rest of the road is unsealed. Fontana milk site, steep drop off at crest, big tree on outside of bend. Creek crossing with guide posts - low speed ok. Geometry and high crossfall on sections with drop offs not ideal, but low volume down this end (no through road). Intersection with Myalla Road: SIDS right 250m+, left 100m (bend, 100km zone but near bend so approach speed likely to be less). No signage or linemarking.	10. Minor	Low	Install additional guide posts where insufficient and at drop off locations. Delineate trees close to road. Install missing bridge signage (one lane). Install advance warning T intersection signage on minor road. Install advance warning side road intersection signage on major road to the north. Linemark intersection.	-	IMG_6342.jpg	145.559402	-40.9849701	378814.173	5461912.081	<a href="#">View Photo</a>	<a href="#">View Location</a>
331	Swards Road			15/11/2019	Unsealed	Bridge with guard rail and G.R.E.A.T. terminals, no signage (one lane). Minor, straight road, limited guide posts (ok on straight). 90 degree bend - guide posts damaged. Intersection with Myalla Road: No signage, unsealed to major road edge. SIDS 100m right (bend) 200m left (crest).	10. Minor	Low	Install bridge signage. Install guide posts on 90 degree bend. Install advance warning T intersection signage on minor road. Install advance warning side road signage on major road (southern approach).	-	IMG_6377.jpg	145.564255	-40.9728394	379200.294	5463265.481	<a href="#">View Photo</a>	<a href="#">View Location</a>
332	Myalla Road	Bass Highway	Intersection	15/11/2019	Sealed	Give way signage, hazard board and linemarking present. SIDS 250m left, 150m right.	5. State Highway	Medium	Install advance warning give way signage on minor road. Install advance warning side road intersection signage on major road (eastern approach).	-	IMG_6409.jpg	145.573669	-40.9616699	379972.144	5464518.424	<a href="#">View Photo</a>	<a href="#">View Location</a>
333	Devils Elbow			15/11/2019	Mixed (sealed and unsealed)	Very few guideposts on very large sweeping bend with big drop off. Trees very close to the road. Bridge with guard rail with 4 bull nose terminals, 2 straight (replace) 2 curved (retain) no bridge signage. Another large corner, no guide posts on outside.	10. Minor	Low	Delineate trees close to the road. Install bridge signage. Replace two straight bull nose terminals with G.R.E.A.T. terminals. Install additional guide posts on corners where insufficient, particularly those with drop offs.	-	IMG_6416.jpg	145.560562	-40.9820247	378869.787	5464460.949	<a href="#">View Photo</a>	<a href="#">View Location</a>
334	Rulla Road	Section north of Bass Highway		15/11/2019	Mixed (sealed and unsealed)	Very short section of road. Deep culvert drop but has guide posts, steep intersection with Devils Elbow Road (Y-intersection) - no controls, unsealed.	10. Minor	Low	Install give way signage on Rulla Road at the intersection with Devils Elbow Road.	-	IMG_6436.jpg	145.556244	-40.980907	378504.361	5464579.035	<a href="#">View Photo</a>	<a href="#">View Location</a>
335	Rulla Road (section north of Bass Highway)	Bass Highway	Intersection	15/11/2019	Sealed	Linemarking and give way signage present. Advance warning side road intersection signage on Bass Highway present. SIDS right 100m (road geometry), left 150m (improve by trimming tree).	5. State Highway	Low	Install advance warning give way signage and hazard board.	-	IMG_6441.jpg	145.554382	-40.9828525	378351.238	5464360.467	<a href="#">View Photo</a>	<a href="#">View Location</a>
336	Wienerts Road			15/11/2019	Unsealed	Minor, short, no through road. Servicing one property. No guide posts on corner and tree on inside (right), very narrow road and fences close, verge grass overgrown. Intersection with Devils Elbow - no controls, unsealed.	10. Minor	Low	Install guide posts on corner and trim vegetation on inside of corner and to the east at the intersection with Devils Elbow Road to improve intersection sight.	-	IMG_6448.jpg	145.555359	-40.9800593	378426.323	5464672.243	<a href="#">View Photo</a>	<a href="#">View Location</a>
337	Dunlams Road			15/11/2019	Unsealed	No through road. Long corner with drop off on outside and trees, only 1 guide post. Steep drop off with good use of guide posts. Trees very close but low speed environment. Intersection with Devils Elbow Road - unsealed, no signage - limited intersection sight to the left (corner), right ok.	10. Minor	Low	Install additional guide posts on corner with drop off where insufficient. Install guide posts at trees where very close to road.	-	IMG_6467.jpg	145.548111	-40.9570887	377814.516	5464881.686	<a href="#">View Photo</a>	<a href="#">View Location</a>
338	Devils Elbow Road	Bass Highway	Intersection (western)	15/11/2019	Sealed	SIDS 250m+ both directions. Give way signage and linemarking provided.	5. State Highway	Low	Install advance warning give way signage and hazard board.	-	IMG_6490.jpg	145.548921	-40.9577406	377713.939	5464917.522	<a href="#">View Photo</a>	<a href="#">View Location</a>

Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between Road A	Road B														
339	Devils Elbow Road	Bass Highway	Intersection (eastern)	15/11/2019	Sealed	Good use of guide posts on approach to intersection. S1SD 150m both directions (road geometry). Give way signage and line marking provided. Advance warning side road intersection signage provided on Bass Highway.	5. State Highway	Low	Install advance warning give way signage and hazard board.	-	IMG_0501.jpg	145.561670	-40.9023108	378994.057	5484430.732	<a href="#">View Photo</a>	<a href="#">View Location</a>
340	Rulla Road	Section south of Bass Highway		15/11/2019	Mixed (sealed and unsealed)	Creek crossing with guide posts. Could have more guide posts on bends - especially in sealed section as can travel at higher speed. Unsealed section mostly straight between paddocks, 90 degree bends should have guide posts added. Creek crossing with guide posts, steep drop. Bridge with guard rail with bull nose terminals - curved / end of road / fine to keep. Bridge has hazard marker signage only. Some potholes on bridge and approach.	9. Local Access	Low	Install bridge signage (single lane bridge). Install guide posts on corners where insufficient.	-	IMG_0511.jpg	145.551636	-40.9550081	378125.778	5484017.426	<a href="#">View Photo</a>	<a href="#">View Location</a>
341	Allens Road			15/11/2019	Unsealed	No through road off of Rulla Road. Minor, some guide posts, services a few farms, fairly straight road. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
342	Rulla Road (section south of Bass Highway)	Bass Highway	Intersection	15/11/2019	Sealed	Splitter island, give way signage and line marking provided. S1SD right 250m+ left 200m left (overtaking sign blocking slightly). Advance warning side road intersection signage provided on Bass Highway.	5. State Highway	Low	Install advance warning give way signage and hazard board.	-	IMG_0502.jpg	145.553497	-40.9031729	378277.352	5484323.665	<a href="#">View Photo</a>	<a href="#">View Location</a>
343	Whites Road			15/11/2019	Mixed (sealed and unsealed)	Left turn manoeuvre off of Bass Highway to turn right into Whites Road - seems to work well. Forest access track- some guideposts, bit of a drop off. Very low traffic volumes expected. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
344	Whites Road	Bass Highway	Intersection	15/11/2019	Sealed	Give way signage and line marking present. Art work on excavated cutting opposite T intersection acting as a hazard board. Advance warning side road intersection signage provided on Bass Highway. S1SD 100m right, 200m left (road geometry).	5. State Highway	Low	Install advance warning give way signage.	-	IMG_0607.jpg	145.537589	-40.956028	378933.801	5485084.706	<a href="#">View Photo</a>	<a href="#">View Location</a>
345	Wilkinson Street	Inglis Street	Intersection (urban)	15/11/2019	Sealed	Identified site by Council - Potential for traffic island to align traffic to give way. Advance warning T intersection signage, give way signage and line marking present. Hard to see line marking until the last minute from minor road. From major road westbound it is hard to identify the edge of the westbound lane as road widens out here and creates a Y-intersection - welcomes high speed turns left into Wilkinson Road. No crashes recorded here in the past 5 years.	8. Feeder	Low	Consider extending centreline line marking further along Wilkinson Street and replace advance warning T intersection signage with advance warning give way signage. Splitter island could be added here as suggested (would need to check turnpaths for design vehicle marking the right turn). However, major issue here seems to be clarification of the major road for westbound traffic (as a Y-intersection created here, and alignment of southern kerb line on Inglis St east of the intersection opens up too much to Wilkinson St (see image). This could be rectified by either painted chevrons on southern corner of intersection and defining Inglis Street southern lane edge line through the intersection or realigning the kerb line here. Further into the road to better define the departure from Inglis St to Wilkinson St.	-	IMG_0625.jpg	145.707504	-40.987906	391277.441	5481614.391	<a href="#">View Photo</a>	<a href="#">View Location</a>
346	Reservoir Drive			15/11/2019	Mixed (sealed and unsealed)	Sealed section: Wide pavement, 60km posted at northern end. Power poles close on corners. Limited guide posts around corners. Wide pavement seal. Bridge with guard rail and 4 bull nose terminals, correct signage. C.A.M.s needed on corner. Unsealed section: Gravel road warning signage provided. Road pavement with narrows further south (no through road). Creek crossing - has guide posts. Bridge with guard rail with fish tail terminals - needs replacement. No signage on bridge either. Some steep drop offs on side of road - medium to low. Medium steep drop offs into creek - some guide posts along but needs more. End of road leads to 2-3 properties, very isolated. Could add more guide posts as quite steep drop offs but generally OK for the environment - no sharp bends. Another power pole on outside of corner near Lennah Drive.	9. Local Access	High	Replace fish tail guard rail terminals with G.R.E.A.T. terminals.	\$ 23,000	IMG_0670.jpg	145.716656	-41.0370712	392145.016	5486334.681	<a href="#">View Photo</a>	<a href="#">View Location</a>
347	Reservoir Drive			15/11/2019	Mixed (sealed and unsealed)	As above.	9. Local Access	Low	Delineate power poles where close to road on outside of corners. Install guide posts on corners where insufficient and at locations with drop offs near the road. Add bridge signage for second bridge. Upgrade guard rail terminals from bull nose to G.R.E.A.T. terminals.	-	IMG_0730.jpg	145.712524	-41.0404657	391801.057	5484650.018	<a href="#">View Photo</a>	<a href="#">View Location</a>
348	Lennah Drive			15/11/2019	Sealed	Bridge with guard rail and bull nose terminals, good bridge signage. Residential subdivision environment. No guide posts, wide sealed pavement, 60km/h posted speed. Wide verges. Limited guide posts through western section, rest is good. Higher volume road due to lots of houses/closer blocks, but if driving 60km should be low risk. Lacking guide posts on big downhill bend. Intersection with Reservoir Drive: No signage or line marking. S1SD 100m left, 250m+ right. (60km/h zone - 105m S1SD requirement). Identified Site by Council - Narrow road verge and steep embankment. Trees and drop off close to road - most of the drop off protected by mature trees and some sections with closely spaced guide posts to alert drivers. Fairly minor road - low risk. Road ends up in forest - limited guide posts at this end but also good width of verge with no hazards.	10. Minor	Low	Upgrade guard rail terminals from bull nose to G.R.E.A.T. terminals. Install additional guide posts on corner east of Camp Creek. Install advance warning T intersection signage on minor road.	-	IMG_0910.jpg	145.72464	-41.012887	392759.885	5489031.272	<a href="#">View Photo</a>	<a href="#">View Location</a>
349	Smiths Road			15/11/2019	Unsealed	Intersection with Reservoir Drive: No signage provided, side road unsealed. S1SD left 180m, right 250m+.	10. Minor	Low	Install additional guide posts (close spacing) along drop off sections with guide posts.	-	IMG_0842.jpg	145.714264	-41.0161324	391822.726	5488655.989	<a href="#">View Photo</a>	<a href="#">View Location</a>

Waratah-Wynyard Council - Rural Road Safety Audit																	
ID	Location			Inspection Date	Road Surface	Current Issues and General Comments	Road Hierarchy	Risk Level	Recommended Treatment	Treatment Cost (High Risk Sites Only)	Photo Name	Coordinates Longitude	Coordinates Latitude	Coordinates Easting	Coordinates Northing	View Photo	View Location
	Road	Between Road A	Road B														
350	Whitsits Road			15/11/2019	Unsealed	Only services one property. Creek crossing - has guide posts. Generally good number of guide posts for minor road. Steep downhill corner, has some guide posts - is a forest track to one house - no action needed..	10. Minor	Low	Install advance warning T intersection signage on minor road.	-	IMG_6623.jpg	145.719694	-41.0205765	392373.354	5458169.571	<a href="#">View Photo</a>	<a href="#">View Location</a>
351	Regrowth Spur			15/11/2019	Unsealed	Intersection with Reservoir Drive: No signage, unsealed intersection. No SISD issues left and right.  Steep road, big drop off on side of road, lots of trees blocking fall - good number of guide posts for a very minor road.  Intersection with Reservoir Drive: Advance warning T intersection sign provided, unsealed intersection. SISD 100m both ways - trim veg to improve in both directions but low traffic volume area.	10. Minor	Low	Install additional guide posts at drop off locations where few guide posts exist. Install advance warning side road intersection signage on Reservoir Drive (both directions).	-	IMG_0679.jpg	145.713882	-41.0415726	391902.228	5455831.279	<a href="#">View Photo</a>	<a href="#">View Location</a>
352	Reservoir Drive	Bass Highway	Intersection (south of Bass Highway)	15/11/2019	Sealed	Advance warning give way signage, double give way signage, splitter island and linemarking present. Cross traffic intersection with slight stagger of side roads. SISD 250m+ in both directions.	5. State Highway	Low	Install hazard board.	-	IMG_0631.jpg	145.722687	-41.0054612	392563.616	5459852.125	<a href="#">View Photo</a>	<a href="#">View Location</a>
353	Shires Lane			15/11/2019	Unsealed	No through road. Steep creek crossing - has 2 guide posts. 90 degree bends with some guide posts on them - good, could consider curve widening here but only 2 properties past this point - not warranted. Another creek crossing - has guide posts and right at end of road (fine).  Intersection with Mount Hicks Road No signage or linemarking. SISD right - 250m+ left 100m but coming from roundabout (over crest) so approach speed from this side would be low.	10. Minor	Low	Install advance warning T intersection signage on minor road.	-	IMG_6665.jpg	145.74842	-41.005146	394831.309	5459918.553	<a href="#">View Photo</a>	<a href="#">View Location</a>
354	Oonah Road	Murchison Highway	Pengana Rd	15/11/2019	Unsealed	Wide unsealed road with wide cleared verges - good. Bridge with guard rail with 4 bull nose terminals (upgrade) - had advance warning signs and bridge signs, missing hazard boards. Good guide posts, flat verges, through a pine forest, set up for large trucks - width. Large stones on inside of corner - hazard. Culverts - lots of guide posts around them. When crossing from pine forest into wild forest there are some steep drop offs - this may be outside the Council boundary? Only spot lacking guide posts is on a hairpin corner.	9. Local Access	Low	Upgrade guard rail terminals from bull nose to G.R.E.A.T. terminals. Install hazard markers on bridge. Remove large rocks on inside of corner from the clear zone. Install additional guide posts on hair pin corner near Edmunds where lacking.	-	IMG_7013.jpg	145.63845	-41.2449799	385996.956	5433154.614	<a href="#">View Photo</a>	<a href="#">View Location</a>
355	Oonah Road	Murchison Highway	Intersection	15/11/2019	Sealed	Give way signage and linemarking (faded) present. SISD 150m left and right, both can be improved by trimming trees.	5. State Highway	Medium	Refresh linemarking. Install advance warning give way and hazard board signage. Trim trees on major road in both directions to improve intersection sight and install advance warning side road intersection signage in both directions on major road.	-	IMG_7066.jpg	145.61203	-41.2364797	383665.016	5435364.374	<a href="#">View Photo</a>	<a href="#">View Location</a>
356	Gulldford Road	Ridley Highway	Railway Crossing	15/11/2019	Unsealed	Guide posts regularly spaced. Some tree stumps in clear zone. Forest road, good clear verge mostly. Sharp descending corner needs more guide posts. Steep drop off but lots of guide posts. Bridge with correct advance signage, needs hazard board and no overtaking signage - 4 bull nose terminals. Creek crossings with guide posts. Road narrows and bends a little tighter further east but generally OK. Railway crossing - has advance signage and correct signage at level crossing.	10. Minor	Low	Install additional guide posts on corners where insufficient. Install no overtaking and hazard marker signage on bridge. Upgrade guard rail terminals from bull nose to G.R.E.A.T. terminals. Remove tree stumps that are within clear zone.	-	IMG_7087.jpg	145.666077	-41.4168614	388528.725	5413770.765	<a href="#">View Photo</a>	<a href="#">View Location</a>
357	Gulldford Road	Ridley Highway	Intersection	15/11/2019	Sealed	Give way signage, faded linemarking present. SISD 250m+ both directions.	5. State Highway	Low	Install advance warning give way and hazard board signage.	-	IMG_7147.jpg	145.636307	-41.4131317	386029.073	5414482.485	<a href="#">View Photo</a>	<a href="#">View Location</a>
358	Aerodrome Road	(in Waratah)		15/11/2019	Unsealed	No guide posts, small S-bend to Dam Rd could have guide posts added but very low volumes.  Intersection with Waratah Road: No signage, side road unsealed. Lots of loose gravel to main road edge line (straight road). SISD 250m in both directions (80km zone on main road).	10. Minor	Low	Install advance warning T intersection signage. Consider installing guide posts on S-bend.	-	IMG_7187.jpg	145.546738	-41.4454656	378603.446	5410767.616	<a href="#">View Photo</a>	<a href="#">View Location</a>
359	Dam Road	(in Waratah)		15/11/2019	Unsealed	Drops in verge (minor), paddock track, fences close, low speed, ends at dam, no houses. No issues in the context of this rural road safety audit.	10. Minor	-	-	-	-	-	-	-	-	-	-
360	Old Dam Road	(in Waratah)		15/11/2019	Unsealed	Small, dead end track to dam - no guide posts. At dam the road crosses the top of the dam wall roughly 5m wide, water (dam on one side, very steep batter on the other side) - goes to dead end. Lower risk due to dead end, very low traffic.  Intersection with Waratah Road: No signage, unsealed to edge of road. SISD 250m+ left, 200m right (100km zone).	10. Minor	Medium	Install guide posts at close spacing along dam wall crossing. Install advance warning T intersection signage on minor road. Install advance warning side road intersection signage on major road (eastern approach).	-	IMG_7199.jpg	145.556931	-41.4486618	379460.70	5410430.345	<a href="#">View Photo</a>	<a href="#">View Location</a>
361	Cemetery Road	(in Waratah)		15/11/2019	Unsealed	Street name sign missing. Narrow track, rough pavement (large rocks), small trees in clear zone but rough rocky pavement necessitates low speeds (forest track, very low traffic volumes).  Intersection with Waratah Road: No signage, unsealed side road. SISD 250m+ in both directions.	10. Minor	Low	Install advance warning T intersection signage on minor road.	-	IMG_7237.jpg	145.571213	-41.4467659	380650.318	5410660.628	<a href="#">View Photo</a>	<a href="#">View Location</a>

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## **Appendix B**

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Photographs





**Photo No. 1 – Example of a power pole close within the clear zone, Oldina Road.**



**Photo No. 2 – Example of power poles close within the clear zone, Elphinstones Road.**



**Photo No. 3 – Example of trees close within the clear zone, Ten Foot Track.**



**Photo No. 4 – Example of trees close within the clear zone, Aitkens Road.**





**Photo No. 5 – Example of a non-trafficable culvert endwall within the clear zone, Smarts Road**



**Photo No. 6 – Example of a non-trafficable culvert endwall within the clear zone, Rothwells Road**



**Photo No. 7 – Example of a steep drop off within the clear zone, Mount Hicks Road.**



**Photo No. 8 – Example of a steep drop off within the clear zone, Zig Zag Road.**



**Photo No. 9 – Example of sub-standard delineation around a horizontal curve, Seabrook Road.**



Calder Road speed limit reduction – Plan of works



# Myalla Community Centre Inc.

5 February 2020

General Manager  
Shane Crawford  
Waratah-Wynyard Council



Dear Shane,

Following on from our discussion with you and Tracey Bradley on 12<sup>th</sup> November 2019, and an earlier discussion with Kevin Hyland, our committee wishes to advise Council about a proposal for motor homes to use the Myalla Recreation Ground.

Our committee is open to the prospect of motor homes using the ground in the future but has some concerns regarding this matter. The primary concern is an ability to mow the seven plus acres so the public can feel safe while walking around. We have mown the grounds since 2002 after Council granted us a lease. Our previous mower, provided by council, is no longer serviceable so we are looking to purchase a replacement.

We've sourced a replacement mower from Public Direct Machinery Liquidators (NSW) for \$8,745 including GST plus an anticipated cartage cost of \$1,000. However, this offer expires at the end of the month when the price reverts to \$14,245 including GST so there is a degree of urgency attached to a purchase. The replacement mower is like our old mower being a tractor drawn 'Howard' Trimax Stealth PTO Deck with a three-metre cut. This replacement mower was built in 2016 so it may last longer than our previous mower which gave 15 years of service.

The Myalla Community Centre has maintained the grounds and buildings independently of any financial input from Council since the original grant by Council to bring the buildings up to the certified standard. In this time, only one small grant of \$500 has been accessed from Council toward the purchase of a new pump. Annually, we pay public liability, building and other insurances, power charges, maintenance and mowing fees.

Our committee is hoping Councillors may decide to provide the necessary finance to purchase this mower. We anticipate that motor homes would then be able to use the recreation ground from November 2020 subject to some mechanism being put in place by Council in Wynyard to facilitate bookings and payments, etc.

Yours sincerely,

*Robert Taylor*  
Robert Taylor, Secretary, MCC Inc.

File ref:	
Log Ref:	
Officer:	
cc:	

Myalla Community Centre Inc:  
C/- R Taylor, 216 Hawleys Road, Milabena TAS 7325

email: [rtaylor.awillis@gmail.com](mailto:rtaylor.awillis@gmail.com)  
Phone 6445 4323 – 0438 814 886



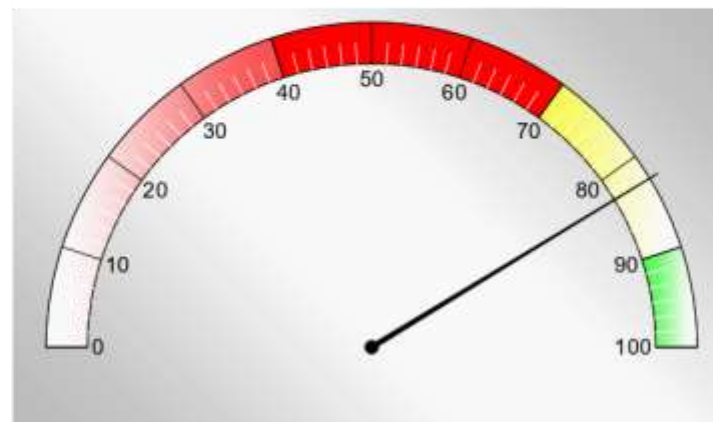


## Departmental Monthly Performance Report

June 2020

## Departmental Monthly Performance Report

### Monthly Progress against Actions

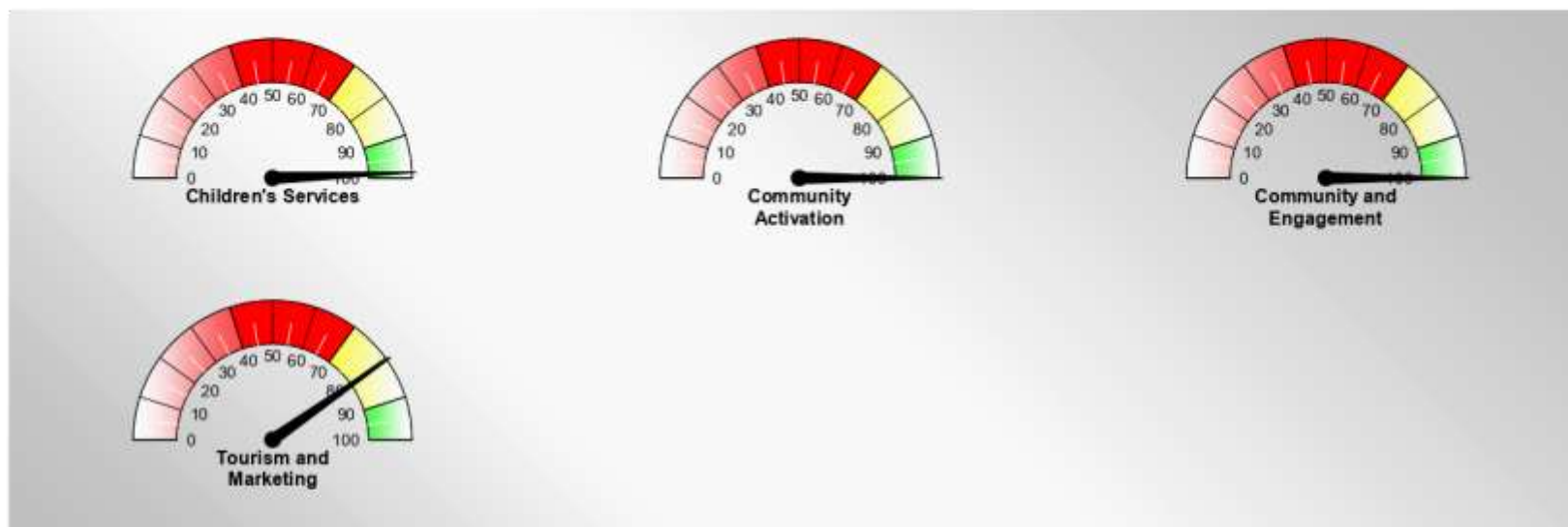


Description	Indicator
60 Actions reported on	
40 Actions at least 90% of monthly target	
10 Actions between 70 and 90% of monthly target	
6 Actions less than 70% of monthly target	
0 Ongoing Actions	
4 Deferred Actions	
0 Actions with no target set	
0 Incomplete Actions	

June 2020 - Departmental Monthly Performance Report

## Departmental Monthly Performance Report

### Monthly Progress by Business Group



BUSINESS GROUP	NO. OF ACTIONS REPORTED ON	NO. OF ACTIONS AT LEAST 90% OF TARGET	NO. OF ACTIONS BETWEEN 70 & 90% OF TARGET	NO. OF ACTIONS LESS THAN 70% OF TARGET	NUMBER OF DEFERRED ACTIONS	NUMBER OF ONGOING ACTIONS	ACTIONS WITH NO TARGET	INCOMPLETE ACTIONS
Children's Services	2	1	1	0	0	0	0	0
Community Activation	6	6	0	0	0	0	0	0
Community and Engagement	9	9	0	0	0	0	0	0
Tourism and Marketing	3	2	0	1	0	0	0	0

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June 2020 - Departmental Monthly Performance Report

## Departmental Monthly Performance Report - Community and Engagement



At least 90% of monthly Action target achieved



Between 70 and 90% of monthly Action target achieved



Less than 70% of monthly Action target achieved

## Children's Services

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 3 Connected Communities</b>							
<b>Strategy: 3.4.1 Promote and work with stakeholders to provide affordable quality services.</b>							
3.4.1.1 Complete detailed design for infrastructure proposal for Warawyn Early Learning and seek funding for the project.	Ongoing meetings to identify scope of the redevelopment. Completion will occur in new financial year.	Wendy Richards	30/06/2020	N/A	100	80	
<b>Future Direction: 4 Community Recreation and Wellbeing</b>							
<b>Strategy: 4.1.1 Collaborate with community organisations that provide recreation opportunities to our community.</b>							
4.1.1.1 Implement year two actions for Warawyn Early Years Reconciliation Action Plan.	Key deliverables being implemented in accordance with the plan Review and update of Reconciliation actions and deliverables has occurred and been approved and published by Narragunnawali for a further 12 months	Wendy Richards	30/06/2020	N/A	100	100	



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Departmental Monthly Performance Report - Community and Engagement




Community Activation

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 1 Leadership and Governance</b>							
<b>Strategy: 1.1.1 Commit to best practice in community engagement.</b>							
1.1.1.1 Work with Waratah Community Board to develop a feasibility proposal for Waratah Falls walk to secure funding.	Jen Evans has completed the proposal for the Waratah Waterfall walkway. Information will be shared with the Waratah Community Board at the July meeting.	Richard Muir Wilson	30/06/2020	N/A	100	100	
<b>Strategy: 1.4.1 Collaborate with, understand and satisfy our external customers' needs and values.</b>							
1.4.1.1 Process map customer service function to inform proposal for enabling technology.	Customer Service process has been mapped and continues to be developed as more avenues for data input are identified. Processes are being refined to insure that the data captured in the current system is inclusive and a fair representation of information coming to Council. The recommendation is not to purchase enabling technology at this time, rather to ensure that the current technology is being used consistently and by all internal stakeholders.	Bronwyn Folden	30/06/2020	N/A	100	100	
<b>Future Direction: 3 Connected Communities</b>							
<b>Strategy: 3.3.1 Provide high quality shared and multi-use community hubs that combine a range of recreational, sporting and educational uses.</b>							



June 2020 - Departmental Monthly Performance Report

Departmental Monthly Performance Report - Community and Engagement

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
3.3.1.1 Develop a program of community events including a Christmas themed event for the retail hubs.	Activities were supported across local areas including Waratah, Yolla, Somerset, Sisters Beach, Boat Harbour and Wynyard with Christmas themed activities. A Santa suit was available for community groups to use and the Wynyard Band and Wynyard Chorale provided performances. A group of Wynyard businesses held a Wynyard Community Christmas shopping night on the 13th December with Council support.	Chantelle French	30/06/2020	N/A	100	100	
<b>Strategy: 3.5.1 Build community capacity through services and programs that strengthen, support and care for our community.</b>							
3.5.1.1 Develop implementation plan for Health and Wellbeing Plan and implement year-one deliverables.	Implementation plan has been developed and year one deliverables are underway. Some Year One activities have been postponed due to COVID19 restrictions, however it is anticipated that postponements are temporary, resulting in delivery on an adjusted time frame, or a delivery of an adjusted program, and that cancellation of activities or programs will be minimal. This is reflected in the year end 90% delivery completion rate.	Bronwyn Folden	30/06/2020	N/A	100	100	
3.5.1.2 Develop implementation plan for Youth and Age Friendly Communities plans and implement year-one deliverables.	Implementation plan has been developed and year one deliverables are underway. Some Year One activities have been postponed due to COVID19 restrictions, however it is anticipated that postponements are temporary, resulting in delivery on an adjusted time frame, or a delivery of an adjusted program, and that cancellation of activities or programs will be minimal. This is reflected in the year end 90% delivery completion rate.	Bronwyn Folden	30/06/2020	N/A	100	100	


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June 2020 - Departmental Monthly Performance Report

Departmental Monthly Performance Report - Community and Engagement

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Strategy: 3.5.2 Become a 24/7 accessible council through the use of technology.</b>							
3.5.2.1 C/FWD 2018/2019 - Investigate Opportunities for online access to booking payments for facilities.	The Use of Facilities Form is built into the new Council web page, with the Communications Officer, the Facilities team and the software designers working together to finalize the functionality and "back end" work flow, ready for the form to be available. Online access to payments for facilities hire will be added as an additional convenient function to improve customer service and efficiency. Work should be finalized within the month for the form and payment option to be available to the public.	Bronwyn Folden	30/06/2020	N/A	100	100	


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Departmental Monthly Performance Report - Community and Engagement

Community and Engagement

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 1 Leadership and Governance</b>							
<b>Strategy: 1.1.1 Commit to best practice in community engagement.</b>							
1.1.1.1 In conjunction with the community, develop a plan for Sisters Beach informed by OSSR and other relevant plans.	The working group has met for the last time. The three priorities of the group have a clear outcome and further implementation plan. Hardstand - Tas Community Fund grant was successful and work has commenced on the Sisters Beach Rec Park tender. Works will be completed by end 2020. Public Camping - information from the discussion paper consultation and other reports relating to public camping informed a recommendation adopted by Council to progress with an expression of interest process for public camping at Sisters Beach. Community Centre - the concept and potential model and uses has been considered by the Working Group. Council has adopted an annual plan option to provide support in developing the concept further. The Working Group will provide a new community centre specific group with the information developed to date.	Tracey Bradley	30/06/2020	N/A	100	100	
<b>Strategy: 1.3.1 Facilitate the meeting of community needs through strong advocacy and local and regional collaboration for shared outcomes.</b>							

June 2020 - Departmental Monthly Performance Report

Departmental Monthly Performance Report - Community and Engagement

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
1.3.1.1 Implement Public Camping Strategy and practices.	Signage for Somerset and Wynyard has been developed and is being installed. Assisting with inquiries on alternate sites. Public Camping - information from the discussion paper consultation and other reports relating to public camping informed a recommendation adopted by Council to progress with an expression of interest process for public camping at Sisters Beach.	Tracey Bradley	30/06/2020	N/A	100	100	
<b>Strategy: 1.6.1 Encourage increased participation by all stakeholders.</b>							
1.6.1.1 Develop Partnership Agreements with key community organisations to formalise working relationship.	Review of the Seven Up agreement with Rural Health completed. Partnership Agreement with the Wynyard Girl Guides completed. Building Somerset's Future Partnership Agreement developed and implemented. Partnership Agreement with Wynyard Adult Day Centre developed.	Tracey Bradley	30/06/2020	N/A	100	100	
<b>Future Direction: 3 Connected Communities</b>							
<b>Strategy: 3.1.1 Deliver planning for activation through effective urban design and planning that promotes liveability, social gathering and connectedness, and whi</b>							
3.1.1.1 Review Waratah-Wynyard Council Emergency Management Plan.	The Waratah-Wynyard Council Emergency Management Plan was superseded by the Western Emergency Management Plan (Waratah-Wynyard, Burnie and Circular Head Councils). The initial plan was approved by the State Emergency Management Controller (Commission of Police) in June 2017. The 2 yearly review was submitted for approval in May 2019 - waiting official approval.	Julie Bernhagen	30/06/2020	N/A	100	100	
<b>Strategy: 3.3.1 Provide high quality shared and multi-use community hubs that combine a range of recreational, sporting and educational uses.</b>							

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June 2020 - Departmental Monthly Performance Report

### Departmental Monthly Performance Report - Community and Engagement

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
3.3.1.1 Complete the Anzac Park All Ability Playground.	Funding Agreement completed. Detailed design currently being developed. Project on target.	Tracey Bradley	30/06/2020	N/A	100	100	
<b>Future Direction: 4 Community Recreation and Wellbeing</b>							
<b>Strategy: 4.1.1 Collaborate with community organisations that provide recreation opportunities to our community.</b>							
4.1.1.1 CFWD - 2018/2019 - OSSR - Work with Wynyard BMX Club to design, develop and implement upgrade to facilities in line with OSSR Plan.	BMX Track upgrade is complete. All major works are in place and track has reopened for use. Several minor or cosmetic issues are currently being resolved – none impact on use of the asset. Council has entered the acquittal phase with the Australian Government in relation to their grant funds. Wynyard BMX Park Inc have acquitted the Tasmanian Community Fund grant.	Tracey Bradley	30/06/2020	N/A	100	100	
<b>Strategy: 4.3.1 Commit to ongoing recreation and open space planning to ensure evidence-based decisions are made about the role of Council and its partners in</b>							
4.3.1.1 Develop facility / sponsorship policy.	The policy was presented to Council in February for consideration, feedback & ultimately adopted.	Bronwyn Folden	30/06/2020	N/A	100	100	
<b>Strategy: 4.4.2 Provide and maintain quality and safe places and spaces for physical, social and cultural activities, including shared and multi-use facilities where</b>							
4.4.2.1 Review all Council infrastructure leases, agreements and fees and implement any required changes to ensure equity and consistency.	A comprehensive review of all Council leases has been undertaken and a register development. Each lease will be reviewed on an ongoing basis.	Greg Irwin	30/06/2020	N/A	100	100	
<b>Future Direction: 5 Economic Prosperity</b>							
<b>Strategy: 5.1.3 Support existing and encourage new innovative activities/industries to the area.</b>							
5.1.3.1 Progress planning for a regional heritage centre in Waratah.	Project planning has progressed. Professional business planning assistance referral provided. Key contacts and stakeholders identified.	Tracey Bradley	30/06/2020	N/A	100	100	

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


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Departmental Monthly Performance Report - Community and Engagement

Tourism and Marketing

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 3 Connected Communities</b>							
<b>Strategy: 3.2.1 Deliver engagement strategies that adapt to community needs to ensure effective communication and collaboration.</b>							
3.2.1.1 Implement year-one priorities from the Communications and Engagement Strategy 2019-2021.	Progress against Year one priorities was presented at the June Council meeting, with major highlights for the year the development of a new Council website, growth in our on-line community engagement, strategies in place to manage media and communications in a timely manner, the introduction and strategic use of new media such as video and instagram, the increase in public participation in consultation opportunities and the introduction of the popular Community Conversations forums.	Rachael Hogge	30/06/2020	N/A	100	100	
<b>Future Direction: 5 Economic Prosperity</b>							
<b>Strategy: 5.1.1 Investigate and embrace new economic opportunities.</b>							
5.1.1.1 Implementation of recommendations of the Destination Action Plan 2017 - progress and complete the 'Loo with a View' concept plan and feasibility plan.	Plan has reached end of life and the concept has lost traction with the founding State institutions and regional Tourism body now not structured under CCA. ANZAC Park all abilities playground is a project still in progress that was identified in this plan. In June 2020 Council voted to commence a business case for the Loo with a View project in 20/21. Report against DAP action plan was provided in November 2019 and it is unlikely there will be a new version of the DAP moving forward.	Rachael Hogge	30/06/2020	N/A	100	100	
<b>Strategy: 5.1.3 Support existing and encourage new innovative activities/industries to the area.</b>							


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June 2020 - Departmental Monthly Performance Report

## Departmental Monthly Performance Report - Community and Engagement

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
5.1.3.1 Review and update the Tourism Plan (2011-2020).	During 2019/20 Tourism Tasmania launched a new brand strategy and prepared a new strategic planning document (Tourism 2030 - to replace T21). CCA withdrew from its tourism function and the new WxNW Regional Tourism Organisation was set up in July. As a result there new Destination Priority Plans were also developed at a regional level. These strategic changes at State and regional level, along with the disruption of COVID to the tourism sector, meant a deliberate delay in Council producing our own strategic plan to cover the next 5-10 years. This work will now be done in the first half of 2020/21 year.	Rachael Hogge	30/06/2020	N/A	100	0	

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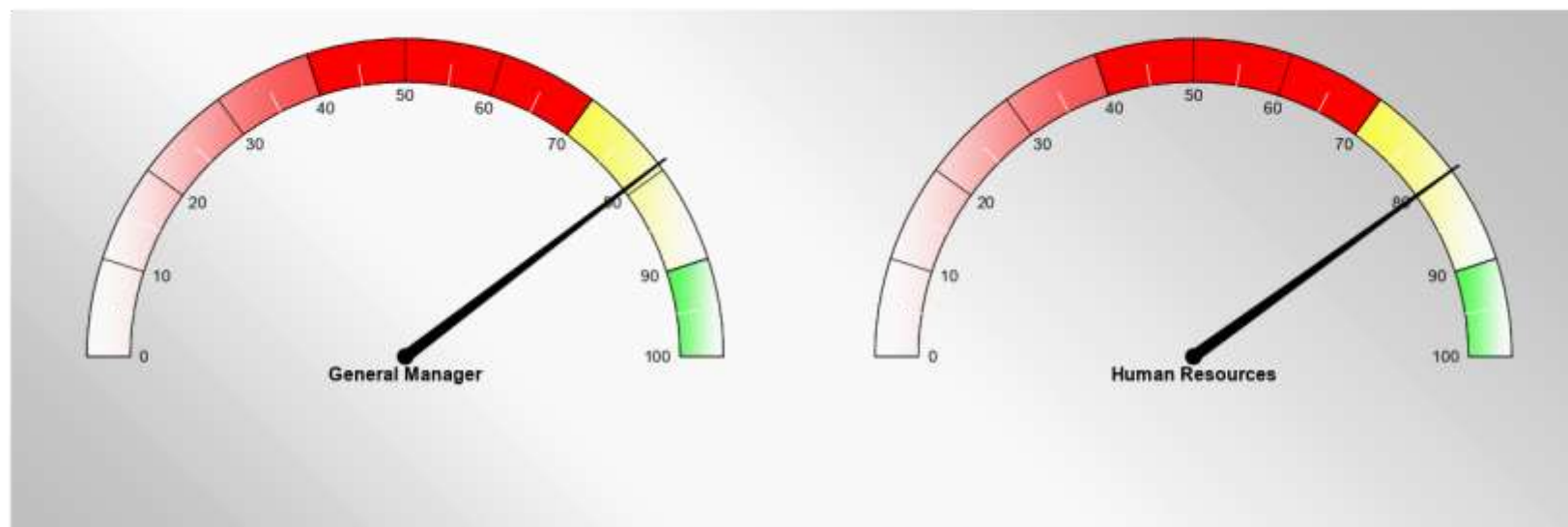


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June 2020 - Departmental Monthly Performance Report

Departmental Monthly Performance Report - General Manager

**Monthly Progress by Business Group**



BUSINESS GROUP	NO. OF ACTIONS REPORTED ON	NO. OF ACTIONS AT LEAST 90% OF TARGET	NO. OF ACTIONS BETWEEN 70 & 90% OF TARGET	NO. OF ACTIONS LESS THAN 70% OF TARGET	NUMBER OF DEFERRED ACTIONS	NUMBER OF ONGOING ACTIONS	ACTIONS WITH NO TARGET	INCOMPLETE ACTIONS
General Manager	7	3	1	1	2	0	0	0
Human Resources	2	0	0	1	1	0	0	0

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## Departmental Monthly Performance Report - General Manager



At least 90% of monthly Action target achieved



Between 70 and 90% of monthly Action target achieved





Less than 70% of monthly Action target achieved

### General Manager

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 1 Leadership and Governance</b>							
<b>Strategy: 1.1.1 Commit to best practice in community engagement.</b>							
1.1.1.1 Establish a program of community engagement forums across the municipality to seek feedback from residents.	Community Conversation forums have been organised for next 12 months. Dates set, posters developed, Automatic updates to Facebook and website set, plans for advertising/ensuring community members are reached have been outlined with each event having a unique approach depending on what is most appropriate. A report on ideas and opportunities raised at each forum is included with the Council agenda each month.	Sally Blanc	30/06/2020	N/A	100	100	
<b>Future Direction: 2 Organisational Support</b>							
<b>Strategy: 2.2.2 Review and update systems and processes to ensure best practice and customer-centric outcomes.</b>							
2.2.2.1 CFWD 2018/2019 - Refine arrangements for resource shared employees, including development of individual MOU's.	MOU development has stalled due to under resourced human resources area following departure of the HR Coordinator and lengthy delay in filling the role. Meeting held with Circular Head on Thursday 14 May to recommence project and likely to be completed first quarter of next financial year.	Shane Crawford	30/06/2020	N/A	100	50	

June 2020 - Departmental Monthly Performance Report

Departmental Monthly Performance Report - General Manager

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
2.2.2.2 Progress actions and continue to explore shared service and resource sharing opportunities.	Five shared service projects undertaken. Update provided to Council in December agenda. A workshop with officers from the three Councils held in February to develop a longer term strategy which has now been deferred due to COVID-19. Next round of projects identified and planning underway.	Shane Crawford	30/06/2020	N/A	100	100	
<b>Future Direction: 3 Connected Communities</b>							
<b>Strategy: 3.1.1 Deliver planning for activation through effective urban design and planning that promotes liveability, social gathering and connectedness, and whi</b>							
3.1.1.1 Develop a detailed and prioritised implementation plan for the Boat Harbour Beach Masterplan and complete year-one actions.	First meeting of project group to progress adopted plan held Monday 30 September 2019. Developed draft schedule and agreed first steps would be seeking Crown Lands permission for western bay seawall repair/replacement. Still waiting for reply from CLS, many months after request submitted - likely to be received early July. BHBSLC progressing plans for Surf Club building. Next stages of project detailed as annual plan action for 2020/21.	Shane Crawford	30/06/2020	N/A	100	100	
<b>Future Direction: 4 Community Recreation and Wellbeing</b>							
<b>Strategy: 4.1.1 Collaborate with community organisations that provide recreation opportunities to our community.</b>							


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Departmental Monthly Performance Report - General Manager

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
4.1.1.1 CFWD 2018/2019 - Work with Taswater and the Waratah community to facilitate a mutually agreed future for the Waratah Dam.	Taswater advised "A potential new owner for the dam was identified from the Expressions of Interest (EOI) process that concluded in September 2019, with the primary interest being use for hydropower generation." Given the slow pace of the EOI process, Council intervened in an attempt to expedite discussions between the State Government, TasWater and the interested party. As at the end of the financial year, resolution has not been reached and Taswater will advise of their proposed next steps.	Shane Crawford	30/06/2020	N/A	100	75	
<b>Strategy: 4.3.1 Commit to ongoing recreation and open space planning to ensure evidence-based decisions are made about the role of Council and its partners in</b>							
4.3.1.1 Develop detailed design for the Somerset Recreation Precinct.	Meetings have been held with the Department of Education and the Somerset Primary School regarding their requirements and preliminary concept plans commenced. Council in June adopted revised Somerset Soccer plan and acknowledged update on the development of the precinct. Deferred until next financial year and included as action in annual plan.	Shane Crawford	30/06/2020	N/A	100	25	Deferred
<b>Strategy: 4.4.2 Provide and maintain quality and safe places and spaces for physical, social and cultural activities, including shared and multi-use facilities where</b>							
4.4.2.1 Secure an operator for the cafe within the new multi-purpose (Yacht Club) facility.	This task will commence following completion of the development application and tender approval process for the Yacht Club building. Draft documentation is prepared and ready to be circulated. Expected to be undertaken in August 2020.	Shane Crawford	30/06/2020	N/A	100	10	Deferred

June 2020 - Departmental Monthly Performance Report

Departmental Monthly Performance Report - General Manager

Human Resources

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 1 Leadership and Governance</b>							
<b>Strategy: 1.5.1 Build our knowledge base to apply in decision-making processes.</b>							
1.5.1.1 CFWD - 2018/2019 - Complete feasibility study for a HR system to record training and qualifications to identify skill gaps.	Discussions are still ongoing into what is expected from a new HR system.	Jackee Evans	30/06/2020	N/A	100	2	Deferred
<b>Future Direction: 2 Organisational Support</b>							
<b>Strategy: 2.6.1 Promote Best Practice and foster innovation.</b>							
2.6.1.1 Undertake a review of the internal employee classification system.	A proposal for a revised classification structure has been drafted and internal consultation is underway.	Jackee Evans	30/06/2020	N/A	100	20	

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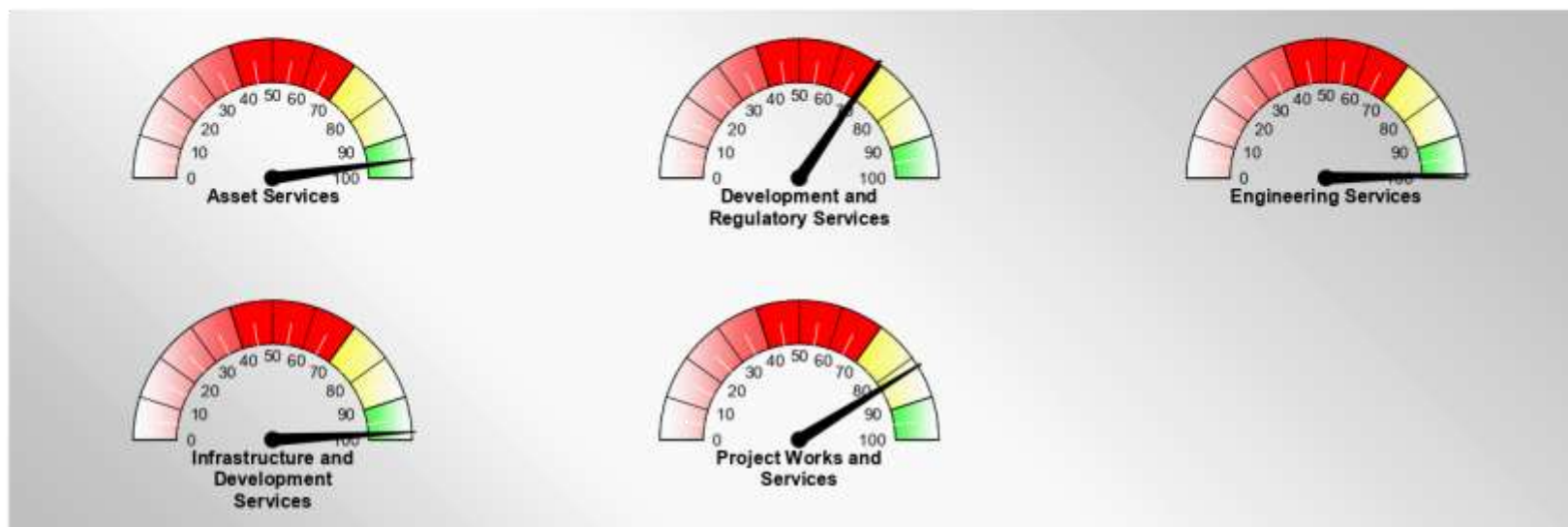


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Departmental Monthly Performance Report - Infrastructure and Development Services

Monthly Progress by Business Group



BUSINESS GROUP	NO. OF ACTIONS REPORTED ON	NO. OF ACTIONS AT LEAST 90% OF TARGET	NO. OF ACTIONS BETWEEN 70 & 90% OF TARGET	NO. OF ACTIONS LESS THAN 70% OF TARGET	NUMBER OF DEFERRED ACTIONS	NUMBER OF ONGOING ACTIONS	ACTIONS WITH NO TARGET	INCOMPLETE ACTIONS
Asset Services	5	4	0	1	0	0	0	0
Development and Regulatory Services	4	1	1	1	1	0	0	0
Engineering Services	5	4	1	0	0	0	0	0
Infrastructure and Development Services	8	5	3	0	0	0	0	0
Project Works and Services	2	1	0	1	0	0	0	0

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Departmental Monthly Performance Report - Infrastructure and Development Services



At least 90% of monthly Action target achieved



Between 70 and 90% of monthly Action target achieved



Less than 70% of monthly Action target achieved

Asset Services

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 1 Leadership and Governance</b>							
<b>Strategy: 1.2.1 Review and adjust service levels to provide value for money.</b>							
1.2.1.1 CFWD 2018/2019 Conduct internal review of the management of public halls (Asset and Facilities Group).	Financial data has been collected alongside other asset information. Some research outstanding before analysis can be completed and report prepared.	Dana Hicks	30/06/2020	N/A	100	55	
1.2.1.2 Update the Stormwater Asset Management Plan.	The Stormwater Asset Management Plan was reviewed and updated to reflect the 2018/19 Stormwater asset class revaluation and current iterations of the 10-year works plan and stormwater infrastructure risk management plan.  Formally adopted at the April 2020 Council Meeting.	Jonathan Linden	30/06/2020	N/A	100	100	
1.2.1.3 Update a Stormwater Service Level document.	Documented service levels were developed for Urban Stormwater services by a cross-functional team consisting of key staff from Asset Services, Engineering, Works & Services and Risk Management.  Formally adopted at the April 2020 Council meeting.	Jonathan Linden	30/06/2020	N/A	100	100	
<b>Future Direction: 6 Transport and Access</b>							



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Departmental Monthly Performance Report - Infrastructure and Development Services

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Strategy: 6.1.1 Develop service levels to inform the delivery of a transport network that affordably meets demand and transparently communicates accepted risk.</b>							
6.1.1.1 Update the Roads Asset Management Plan.	The Roads Asset Management Plan was reviewed and updated to reflect the 2019/20 Transport asset class revaluation and current iterations of the 10-year works plan and transport infrastructure risk management plan.  Formally adopted at the April 2020 Council Meeting.	Jonathan Linden	30/06/2020	N/A	100	100	
6.1.1.2 Update the Roads Service Level documentation.	Existing documented service levels were reviewed, updated and extended for Road Services by a cross-functional team consisting of key staff from Asset Services, Engineering, Works & Services and Risk Management.  Formally adopted at the April 2020 Council meeting.	Jonathan Linden	30/06/2020	N/A	100	100	

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



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

Development and Regulatory Services

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 1 Leadership and Governance</b>							
<b>Strategy: 1.2.1 Review and adjust service levels to provide value for money.</b>							
1.2.1.1 Undertake a review of town planning services.	Inception meeting has been held, with project plan to be drafted. Project deferred until the second half of the year, with focus on completing the planning scheme work.	Ashley Thornton	30/06/2020	N/A	100	5	Deferred
<b>Future Direction: 5 Economic Prosperity</b>							
<b>Strategy: 5.3.3 Actively manage community and economic growth through community engagement.</b>							
5.3.3.1 Develop a list of priority actions from the Central Area Development Plan.	The implementation plan was presented to Council, and adopted at the February Council meeting. Annual updates will now be presented, tracking the progress of the recommendations from this strategy.	Ashley Thornton	30/06/2020	N/A	100	100	
<b>Strategy: 5.4.2 Ensure evidence-based allocation of infrastructure and land use to enable sustainable growth.</b>							
5.4.2.1 Develop and deliver a Settlement Strategy to guide future growth and development within the municipality.	Strategic Planner commenced May 2020. Quiz seeking comments from interested parties has been drafted and is with Senior Management for approval.	Ashley Thornton	30/06/2020	N/A	100	29	
<b>Future Direction: 7 Environment</b>							
<b>Strategy: 7.2.1 Practice effective urban and landscape design and planning that promotes liveability and connectivity and recognises local heritage.</b>							
7.2.1.1 Tasmanian Planning Scheme implementation.	Expected to be submitted to the Tasmanian Planning Commission shortly.	Ashley Thornton	30/06/2020	N/A	100	80	

June 2020 - Departmental Monthly Performance Report

## Departmental Monthly Performance Report - Infrastructure and Development Services

## Engineering Services

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 1 Leadership and Governance</b>							
<b>Strategy: 1.2.1 Review and adjust service levels to provide value for money.</b>							
1.2.1.1 Undertake reserve irrigation installation at Frederick Street Reserve and Somerset Recreation Ground.	All irrigation works are complete and operational.	Corey Gould	30/06/2020	N/A	100	100	
<b>Future Direction: 4 Community Recreation and Wellbeing</b>							
<b>Strategy: 4.4.2 Provide and maintain quality and safe places and spaces for physical, social and cultural activities, including shared and multi-use facilities where</b>							
4.4.2.1 Continue flood mitigation projects, including - Cotton Street, Stanwyn Court and Port Creek, Wynyard.	2020/21 budget adoption to continue development of projects successful, projects nearing the point of going to tender.	Corey Gould	30/06/2020	N/A	100	100	
<b>Future Direction: 5 Economic Prosperity</b>							
<b>Strategy: 5.3.2 Assess potential capability for economic expansion.</b>							
5.3.2.1 Develop detailed design and pricing for Inglis / Park / Church Street intersection and surrounding business area.	Survey data obtained and detailed concept drawings well progressed in consultation with IGA.	Corey Gould	30/06/2020	N/A	100	75	
<b>Future Direction: 6 Transport and Access</b>							
<b>Strategy: 6.1.2 Prioritise and address service gaps with a road hierarchy.</b>							
6.1.2.1 Undertake a Rural Roads Safety Audit.	Rural Road Safety Audit received and tabled at July 2020 Council Meeting.	Corey Gould	30/06/2020	N/A	100	100	
<b>Future Direction: 7 Environment</b>							
<b>Strategy: 7.3.1 Provide education to facilitate awareness and appreciation of built and natural assets.</b>							
7.3.1.1 Develop and adopt Environmental Plan.	Draft plan has been adopted	Daniel Summers	30/06/2020	N/A	100	100	







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Departmental Monthly Performance Report - Infrastructure and Development Services

Infrastructure and Development Services

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 1 Leadership and Governance</b>							
<b>Strategy: 1.2.1 Review and adjust service levels to provide value for money.</b>							
1.2.1.1 Develop a Stormwater Management Plan.	Adopted at the December 2019 meeting.	Daniel Summers	30/06/2020	N/A	100	100	
<b>Future Direction: 3 Connected Communities</b>							
<b>Strategy: 3.1.1 Deliver planning for activation through effective urban design and planning that promotes liveability, social gathering and connectedness, and whi</b>							
3.1.1.1 CFWD 2018/2019 Design, develop and implement the next stage of Coastal Pathway - Cooeee to Wynyard.	Project now progressing again following the State Governments process for providing access alternatives to the worst sections of rail corridor and announcement of funding for coastal erosion measures.	Daniel Summers	30/06/2020	N/A	100	77	
<b>Future Direction: 4 Community Recreation and Wellbeing</b>							
<b>Strategy: 4.1.1 Collaborate with community organisations that provide recreation opportunities to our community.</b>							
4.1.1.1 Undertake Wynyard Recreation Ground changeroom construction.	New changeroom construction completed.	Dana Hicks	30/06/2020	N/A	100	100	
<b>Strategy: 4.2.1 Focus on the value of recreation in promoting the health and wellbeing of our community.</b>							
4.2.1.1 Review and improve educational information relating to animal control.	Awaiting outcome of DPIPWE conservation area appeal prior to finalising.	Ashley Thornton	30/06/2020	N/A	100	70	
<b>Strategy: 4.4.1 Employ land-use planning strategies to promote connectivity and equity in the allocation or use of open space for recreation purposes.</b>							
4.4.1.1 Develop a masterplan for the Cam River area.	Draft plan out for public feedback. Consultation closes 3rd July.	Dana Hicks	30/06/2020	N/A	100	90	
<b>Strategy: 4.4.2 Provide and maintain quality and safe places and spaces for physical, social and cultural activities, including shared and multi-use facilities where</b>							
4.4.2.1 Continue the Wynyard Waterfront Project including seawall, boardwalk and multi-purpose facility.	Sea wall, wharf entry works, board walk and Camp creek reclamation complete.	Daniel Summers	30/06/2020	N/A	100	100	
<b>Future Direction: 6 Transport and Access</b>							
<b>Strategy: 6.1.1 Develop service levels to inform the delivery of a transport network that affordably meets demand and transparently communicates accepted risk.</b>							

June 2020 - Departmental Monthly Performance Report

Departmental Monthly Performance Report - Infrastructure and Development Services

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
6.1.1.1 Undertake a Roads Condition Assessment.	Roads Condition Assessment complete, to be incorporated in the updated Roads Asset Management Plan.	Daniel Summers	30/06/2020	N/A	100	100	
<b>Future Direction: 7 Environment</b>							
<b>Strategy: 7.1.1 Foster opportunity through sustainable development and community engagement.</b>							
7.1.1.1 Waste Strategy adoption and implement year-one actions.	Waste survey recently completed.	Daniel Summers	30/06/2020	N/A	100	78	

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



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Departmental Monthly Performance Report - Infrastructure and Development Services

Project Works and Services

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 2 Organisational Support</b>							
<b>Strategy: 2.2.2 Review and update systems and processes to ensure best practice and customer-centric outcomes.</b>							
2.2.2.1 Complete a review of after-hours and call out arrangements.	This project has been delayed with COVID-19 restrictions and will be completed in the new financial year.	Don Russell	30/06/2020	N/A	100	30	
<b>Future Direction: 7 Environment</b>							
<b>Strategy: 7.5.1 Consider and encourage biodiversity through forward thinking and planning.</b>							
7.5.1.1 Complete Camp Creek reclamation stages 2 to 4.	Project now complete.	Don Russell	30/06/2020	N/A	100	100	

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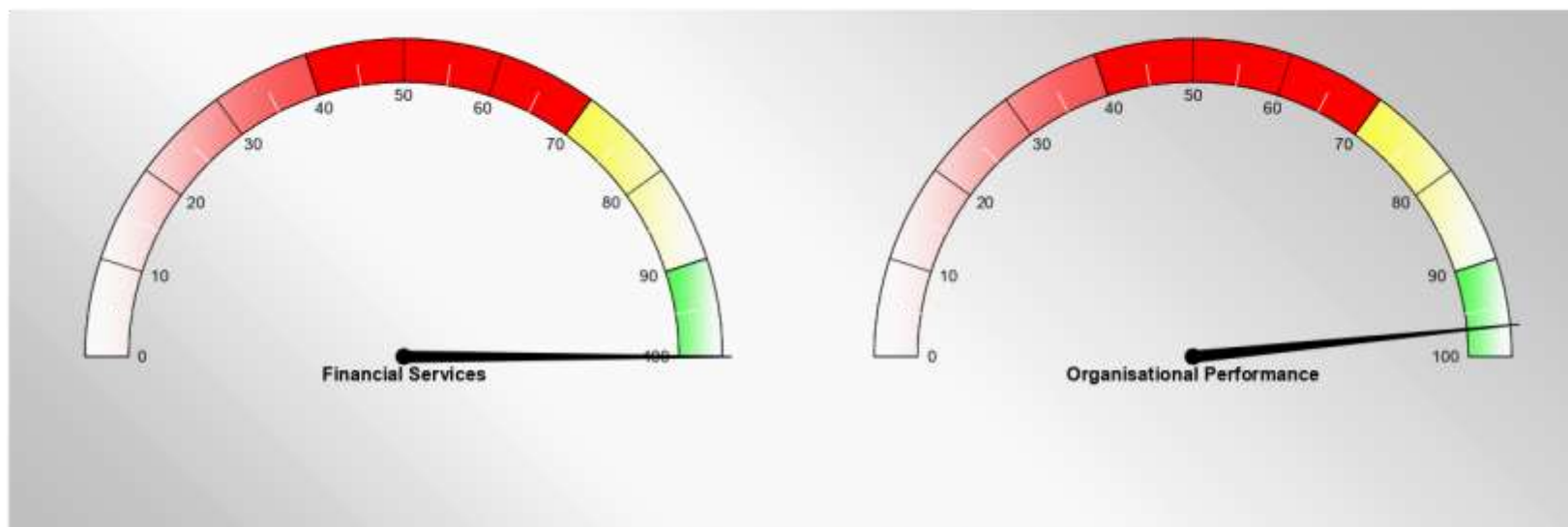
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June 2020 - Departmental Monthly Performance Report

## Departmental Monthly Performance Report - Organisational Performance

### Monthly Progress by Business Group



BUSINESS GROUP	NO. OF ACTIONS REPORTED ON	NO. OF ACTIONS AT LEAST 90% OF TARGET	NO. OF ACTIONS BETWEEN 70 & 90% OF TARGET	NO. OF ACTIONS LESS THAN 70% OF TARGET	NUMBER OF DEFERRED ACTIONS	NUMBER OF ONGOING ACTIONS	ACTIONS WITH NO TARGET	INCOMPLETE ACTIONS
Financial Services	2	2	0	0	0	0	0	0
Organisational Performance	5	2	3	0	0	0	0	0

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June 2020 - Departmental Monthly Performance Report

## Departmental Monthly Performance Report - Organisational Performance



At least 90% of monthly Action target achieved



Between 70 and 90% of monthly Action target achieved



Less than 70% of monthly Action target achieved

## Financial Services

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 1 Leadership and Governance</b>							
<b>Strategy: 1.2.1 Review and adjust service levels to provide value for money.</b>							
1.2.1.1 CFWD 2018/2019 Improve the Long Term Financial Plan.	Long Term Financial Model was formally adopted by Council in March. The document will guide decision making in the short term and will be reviewed periodically.	Samantha Searle	30/06/2020	N/A	100	100	
<b>Future Direction: 2 Organisational Support</b>							
<b>Strategy: 2.2.1 Facilitate effective knowledge management practices.</b>							
2.2.1.1 CFWD 2018/2019 Update the financial module of the enterprise software solution (Authority).	Upgrade was successful and now operational.	Stephen Imms	30/06/2020	N/A	100	100	

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Departmental Monthly Performance Report - Organisational Performance

Organisational Performance

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
<b>Future Direction: 1 Leadership and Governance</b>							
<b>Strategy: 1.1.1 Commit to best practice in community engagement.</b>							
1.1.1.1 Conduct the four-year review of the 10-year Strategic Plan.	The desktop review has commenced. The review has temporarily been put on hold due to more urgent business arising and will now carry over the new financial year. The project will be picked up again as soon as practical with the view to finalising prior to the end of the calendar year.	Samantha Searle	30/06/2020	N/A	100	73	
<b>Strategy: 1.3.1 Facilitate the meeting of community needs through strong advocacy and local and regional collaboration for shared outcomes.</b>							
1.3.1.1 Implement year one actions identified through the Sustainable Murchison 2040 framework Memorandum of Understanding	Initiatives are ongoing and progressing. Progress report provided by the reference group presented to Council in February 2020.	Samantha Searle	30/06/2020	N/A	100	100	
<b>Strategy: 1.4.1 Collaborate with, understand and satisfy our external customers' needs and values.</b>							
1.4.1.1 Review complaint handling procedures relating to services provided by Council to address legislative requirements.	Statistical information relating to complaints are provided to Council on a quarterly basis, however, more work can be done to refine this data and provide a more comprehensive overview.	Samantha Searle	30/06/2020	N/A	100	72	
<b>Future Direction: 3 Connected Communities</b>							
<b>Strategy: 3.1.1 Deliver planning for activation through effective urban design and planning that promotes liveability, social gathering and connectedness, and whi</b>							
3.1.1.1 Develop a Municipal Signage Strategy.	Strategy under development and is scheduled to be presented to Council for consideration by September 2020.	Samantha Searle	30/06/2020	N/A	100	70	

June 2020 - Departmental Monthly Performance Report

Departmental Monthly Performance Report - Organisational Performance

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
3.1.1.2 Complete and implement CCTV project in Somerset and Wynyard CBD's.	<p>Waratah-Wynyard Council in collaboration with Burnie City Council &amp; Tas Communications have installed and configured 18 CCTV cameras in strategic locations around Wynyard and Somerset. All cameras and related equipment have been purchased. These sites are LIVE:</p> <ol style="list-style-type: none"> <li>1. LIVE: Wynyard - Wonders of Wynyard</li> <li>2. LIVE: Wynyard - Warawyn Early Learning Centre</li> <li>3. LIVE: Wynyard - Council Chambers Reception</li> <li>4. LIVE: Wynyard - Council Depot - internal traffic area &amp; staff carpark</li> <li>5. LIVE: Wynyard - Council Depot - Waste Dump Point &amp; Transfer Station Gate</li> <li>6. LIVE (NVR - SSC): Somerset - Cam River Reserve</li> <li>7. LIVE (NVR - SSC) Somerset - Surf Club - Anzac Park</li> <li>8. LIVE: Somerset - Elizabeth Street Mall</li> <li>9. LIVE: Wynyard - Woolworths Carpark</li> <li>10. LIVE: Wynyard - Little Goldie Street</li> <li>11. LIVE: Wynyard (NVR) - Wharf Carpark</li> </ol> <p>These sites have cameras but await connection:</p> <ol style="list-style-type: none"> <li>1. LIVE READY: Wynyard - Gutteridge Gardens Sound Shell</li> <li>2. LIVE READY: Wynyard - Goldie &amp; Jackson Roundabout</li> </ol> <p>These sites are awaiting camera placement:</p> <ol style="list-style-type: none"> <li>1. WIP: Wynyard - Eastern Steel Arch</li> </ol>	Murray Jamieson	30/06/2020	N/A	100	90	

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Departmental Monthly Performance Report - Organisational Performance

ACTION	PROGRESS	RESPONSIBLE PERSON	COMP. DATE	KPI TITLE	TARGET	ACTUAL	PROGRESS
	2. WIP: Wynyard - Western Steel Arch 3. WIP: Wynyard - Civic Park These sites are awaiting completion of CBD Mall: 1. WIP: Wynyard - CBD Mall 2. WIP: Wynyard - CBD Carpark						

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**Waratah Wynyard Council Audit Panel**

**ANNUAL REPORT 2019-2020**

**BACKGROUND**

Waratah-Wynyard Council resolved to establish its Audit Panel in 2015. The Panel's operations are guided by the Council's Audit Panel Charter, based on the requirements of the Local Government (Audit Panels) Order 2014 issued by the Minister for Local Government under Section 85B (1) of the Local Government Act 1993 and the Local Government Audit Panels Practice Guide revised in March 2018.

**AUDIT PANEL MEMBERSHIP**

The Audit Panel comprises three independent members. Membership for 2019-20 was John Howard (Chair), Lisa Dixon and Stephen Allen.

The Panel met four times during the year.

**ROLE OF THE PANEL**

The role of the Panel is to support the elected Council by providing independent advice, assurance and advice on Council's financial reporting and controls, risk management framework and practices, internal controls, legislative compliance, long-term planning, fraud control and corruption prevention.

In reviewing the council's performance, the audit panel it is to consider:

- whether the annual financial statements of the council accurately represent the operations and state of affairs of the council
- whether and how the strategic plan, annual plan, long-term financial management plan and long-term strategic asset management plans of the council are integrated and the processes by which, and assumptions under which, those plans were prepared
- the accounting, internal control, anti-fraud, anti-corruption and risk management policies, systems and controls that the council has in relation to safeguarding its long-term financial position
- whether the council is complying with the provisions of the Act and any other relevant legislation, and
- whether the council has taken any action in relation to previous recommendations provided by the audit panel to the council and, if it has, what that action was and its effectiveness.

**EXTERNAL AND INTERNAL AUDIT**

**External Audit**

External audit services to Council are provided by the Tasmanian Audit Office (TAO). TAO staff attended a meeting to discuss the 2019-20 Audit Strategy and Plan. Outstanding audit findings from previous external audits were reviewed with findings from the 2018-19 audit. The Panel noted that two previously reported findings were resolved during the audit leaving a total of eleven (11) findings to be addressed by Council. The Panel has followed up progress on addressing these issues during 2019-20.

**Internal Audit**

The Panel had recommended Council provide resources for an internal audit function and develop a list of priority actions for internal audit. The Panel discussed the engagement of the Cradle Coast Authority to conduct an internal audit of Council's procurement processes in 2019-20.

**Enclosure 1 Waratah-Wynyard Audit Panel Annual Report to 30 June 2020**

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Internal audits support the work of Council and the Audit Panel by reviewing Council's systems and operations using a risk management approach in accordance with an agreed internal audit plan. These audits aim to identify how well risks are managed, whether the right processes are in place, whether agreed procedures are being followed and whether improvements can be made.

The Panel would like to acknowledge the funding provided in the 2019-20 budget by Council to enable establishment of an internal audit program.

**OTHER PANEL ACTIVITIES IN THE REPORTING PERIOD**

During the year, the Audit Panel:

- reviewed General Manager's Risk and Assurance Certificates
- reviewed financial management reports to council
- reviewed 2018-19 Annual Report and Audited Financial Statements – noted that council had reported an underlying surplus of \$576,000, (3% underlying surplus ratio, target > 0%)
- reviewed Roads Useful Life Review Report
- reviewed the schedule of Policies and Procedures
- reviewed the Audit Panel Charter – noted that the Panel's Annual Report is to be prepared for the financial year to align with the Council's reporting framework
- reviewed annual risk management report
- reviewed strategic and operations risk registers
- noted that council has established an internal risk management committee
- reviewed business continuity policy, plan and framework
- reviewed Financial Management Strategy 2020-2030
- reviewed Urban Stormwater Asset Management Plan and Service Level document
- reviewed Transport Asset Management Plan and Service Level document
- discussed COVID 19 impacts on Council and recovery initiatives
- discussed 2019-20 Annual Plan and Budget preparations and \$500,000 financial impact of COVID 19 stimulus measures – noted 0% rate increase with forecast underlying deficit of \$801,000 for 2020-21 and projected return to an underlying surplus for 2021-22.

The Panel did not make any recommendations to Council in 2019-20.

John Howard  
Chair, Audit Panel  
June 2020



## AUDIT PANEL CHARTER

DOC NO: GOV.026	VERSION NO: 5	APPROVAL DATE: 20 JULY 2020
CONTROLLER: GENERAL MANGER	APPROVED BY: COUNCIL	REVIEW DATE: JULY 2023

Delivering innovative, sustainable services to our community through strong leadership, clear direction and collaborative relationships.

## BACKGROUND

The Waratah Wynyard Council Audit Panel has been established in compliance with Division 4 of the *Local Government Act 1993* (the Act) and the *Local Government (Audit Panels) Order 2014* (the Audit Panel Orders) and the *Local Government (Audit Panels) Amendment Order 2015*.

This Charter sets out the Audit Panel's objectives, authority, composition, tenure, functions, reporting and administrative arrangements.

## OBJECTIVE

The objective of the Audit Panel is to review Council's performance under section 85A of the Act, and report to Council its conclusions and recommendations.

## AUTHORITY

Council authorises the Audit Panel to:

- Obtain any information it requires from any employee or external party (subject to any legal obligation to protect information);
- Discuss any matters with the Tasmanian Audit Office (TAO), or other external parties (subject to confidentiality considerations);
- Request the attendance of any employee, including members of Council at Audit Panel meetings; and
- Obtain legal or other professional advice, as considered necessary to meet its responsibilities.

## COMPOSITION AND TENURE

The Audit Panel comprises not less than three (3) and up to four (4) independent members appointed by Council.

A person who is an employee, or the General Manager, or the Mayor of the Council is not eligible for appointment as a member of the Audit Panel.

A person who is an employee or Councillor of another municipal council is not eligible for appointment as a member of the Audit Panel.

If a Commissioner is appointed to the Council, he or she may be appointed as a member of the Audit Panel.



Council will appoint an independent member as the chairperson of the Audit Panel.

Audit Panel members will be appointed for a period of three (3) years. Terms will be coordinated so that a position becomes vacant each year, rather than simultaneous vacancies. An adjustment to existing Audit Panel terms occurred first instance to coordinate this arrangement.

Audit Panel members may be re-appointed at the approval of Council, six (6) months prior to the expiration date if both parties are agreeable.

#### **FUNCTIONS**

To comply with the Audit Panels Order, when reviewing the Council's performance, the Audit Panel is to consider:

- The Council's financial system, financial governance arrangements and financial management;
- Whether the Annual Financial Statements of the Council accurately represent the state of affairs of Council;
- Whether the strategic plan, annual plan, long term financial management plan and long term strategic asset management plans of the Council are integrated and the processes by which, the assumptions under which, those plans were prepared;
- The accounting, internal control, anti-fraud, anti-corruption and risk management policies, systems and controls the Council has in relation to safeguarding its long term financial position;
- Whether the Council is complying with the provisions of the Act and any other relevant legislation;
- Whether the Council has taken any action in relation to previous recommendations provided by the Audit Panel to the Council, and, if it has so taken action, what the action was and its effectiveness; and
- Any other activities within the Audit Panel's remit, as determined by the Audit Panel.





## KEY AREAS

In fulfilling its functions, the Audit Panel should consider the following key areas:

- Corporate governance;
- Systems of internal control;
- Risk management frameworks;
- Human resource management, including policies, procedures and enterprise agreements;
- Information and communications technology governance;
- Management and governance of the use of data, information and knowledge; and
- Internal and external reporting requirements.

## RESPONSIBILITIES OF MEMBERS

Members of the Audit Panel are expected to understand and observe the legal requirements of the Act and the Audit Panels Order. Members are also expected to:

- Act in the best interests of the Council;
- Apply sound analytical skills, objectivity and judgement;
- Express opinions constructively and openly;
- Raise issues that relate to the Audit Panel's functions and pursue independent lines of enquiry within the Audit Panel's deliberations and meetings; and
- Contribute the time required to review the papers provided.

## REPORTING

The Audit Panel is to provide a copy of its meeting minutes to the Council as a soon as practicable after each Audit Panel meeting.

If the Audit Panel has conducted a review under section 85A of the Act, the Audit Panel must provide a written report of its conclusions and recommendations to the Council as soon as practicable after the review is completed.

The Audit Panel must provide an annual report to the Council that comprises, at least:

- A summary of the work undertaken and significant findings during the past year;
- A review of the Audit Panel Charter and, if required, recommended changes to the Council for its approval;
- An update on the membership of the Audit Panel;
- The significant aspects of the Audit Panel's deliberations for the coming year, together with a proposed work plan; and
- Any other matters deemed, by the Audit Panel, as requiring Council's attention.



## ADMINISTRATIVE ARRANGEMENTS

### Meetings

- The Audit Panel will meet at least four (4) times per year;
- The Audit Panel is to regulate its own proceedings in accordance with this Charter;
- The Chairperson may determine that a meeting is to be held in private;
- The General Manager and Financial Manager, or their delegates, are to attend Audit Panel meetings unless the Chairperson determines that a meeting is to be held in private; and
- The Audit Panel may invite any Councillor and/or employee of the Council and/or representative of the TAO to attend meetings of the Audit Panel.

### Quorum

A quorum of the Audit Panel meeting is a majority of members including at least one independent member.

### Work Plan

The Audit Panel is to develop an annual work plan that includes, but is not limited to, a schedule of meetings and objectives for each meeting.

All discretionary items referred to the Audit Panel that fall within its remit should be brought before the Audit Panel, so it can determine which items will be prioritised for inclusion in the work plan.

The forward meeting schedule should include the date, location and proposed agenda items of each meeting.

### Secretariat

Council, in consultation with the Audit Panel, will appoint a person to provide secretariat support to the Audit Panel.

The secretariat will:

1. Ensure the agenda for each meeting is approved by the chairperson;
2. Ensure the agenda and supporting papers are circulated at least one week prior to the meeting; and
3. Ensure the minutes of meetings are prepared and submitted to the Council as soon as practicable after each meeting.



### Resources

The Audit Panel will hold at least annual discussions with the General Manager in relation to the resources to be made available to enable the Audit Panel to meet its requisite functions and achieve its objectives.

### Interests

Audit Panel members must declare any real, potential or perceived pecuniary or non-pecuniary interests that may affect them carrying out their functions. The Audit Panel member with the interest must also notify the General Manager of the Council, in writing, of the interest within seven (7) days of declaring the interest.

Independent members are to consider past employment, consultancy arrangements and related party issues in making these declarations.

A standing item for declarations of interests should be included in all Audit Panel meeting agendas.

The Chairperson of the Audit Panel is to ensure that the declaration of an interest is recorded in the minutes of the meeting and any relevant written report.

### Confidentiality

Audit Panel members must maintain the confidentiality of any information, documents and communications the Council or Audit Panel has designated as being in confidence, and only access Council information to perform their role as an Audit Panel member.

### Code of Conduct

Audit Panel members are to abide by standards of behaviour in the *Code of Conduct for Members of the Audit Panel*.

### Induction

Council will provide new Audit Panel members with relevant information and briefings on their appointment to assist them to meet their Audit Panel responsibilities.



#### **Fees (as per Appendix A)**

Independent members of the Audit Panel shall be paid the following:

- A sitting fee per meeting attended; and
- Audit Panel Annual Membership for being a member of all participating Councils.

Annual fees are to be shared equally between participating Councils.

Audit Panel fees will be adjusted annually as at 1 July based upon the change in CPI (Hobart) for the 12 months to June.

#### **Review of Charter**

Council will review this charter every three years or at such time as changes to legislation require and submit its recommended charter to Council for approval.

Approved by Council

Mayor

Date: 20 July 2020



## APPENDIX A

### Fees and charges schedule

	2019/2020	2020/2021
Meeting Fee (ex GST)	\$433.80	
Annual Fee – Chair (ex GST)	\$2,166.90	
Annual Fee –Independent member (ex GST)	\$650.06	





	<p><b>WARATAH-WYNYARD COUNCIL</b></p> <p><b>ASSET MANAGEMENT POLICY</b></p>
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## 1. SCOPE

- 1.1 The policy applies to allocation of resources, providing high level oversight of the delivery of services and maintaining accountability mechanisms to ensure that Council's resources are appropriately utilised to address its strategic plans and priorities.

## 2. PURPOSE

- 2.1 To ensure sustainable provision of assets designed to meet the service delivery needs of the Waratah-Wynyard community.

## 3. POLICY STATEMENT

- 3.1 Council is committed to implementing a systematic asset management framework in order to apply appropriate asset management best practices across all areas of the organisation. This includes ensuring that assets are planned, created, operated, maintained, renewed and disposed of in accordance with Council's priorities for service delivery. Specific requirements are to:
- (a) ensure that our infrastructure services are provided in an economically optimal way, with the appropriate levels of service to residents, visitors and the environment determined by reference to our financial sustainability;
  - (b) safeguard our assets including physical assets and employees by implementing appropriate asset management strategies and appropriate financial resources for those assets;
  - (c) ensure continuous improvement and seek innovative ways of meeting service delivery requirements;
  - (d) adopt, review and refine a Financial Management Strategy and Strategic Asset Management Plan. These plans then provide the bases for all budget funding and service level decisions;
  - (e) ensure that Council budgeting and reporting are categorised in terms of operational, maintenance, renewal, upgrade and new expenditure classifications;
  - (f) meet the training needs in financial and asset management practices for councillors and staff;
  - (g) ensure resources and operational capabilities are identified and responsibility for asset management is allocated;
  - (h) provide high level oversight of financial and asset management responsibilities through Audit Panel/General Manager reporting to Council on development and implementation of the Strategic Asset Management Plan, Asset Management Plans and Financial Management Strategy;
  - (i) ensure appropriate risk management processes are considered and implemented; and
  - (j) meet legislative requirements for asset management.

### LEGISLATIVE REQUIREMENTS

- *Local Government Act 1993*

### RELATED PROCEDURES/GUIDELINES

- Waratah-Wynyard Council Strategic Asset Management Plan (2020)
- Waratah-Wynyard Council Financial Management Strategy (2020/2030)

DOC NO: PR.004	VERSION NO: 5	APPROVAL DATE: 20 July 2020
CONTROLLER: General Manager	APPROVED BY: - COUNCIL	REVIEW DATE: July 2024



30/06/2020

Mayor Robby Walsh

Waratah Wynyard Council

Dear Robby

Thankyou for your support and advocacy regarding accepting an AED as a donation to Council and installing it at the Waratah Post Office.

It is funded by Chris and Trevor Smith, the Bischoff Hotel and Patrons as well as a generous \$500 donation from an anonymous supporter.

The Tourism Association initially supported the idea but unfortunately was unable to commit to the project financially although the great majority of its members remain supportive in principle.

I have spoken with Richard Muir Wilson who expressed his support and hopefully it will be mounted at the Post Office tomorrow (July 1<sup>st</sup>) so hopefully will be up and running by the time you get this letter.

Chris Smith has organised training which will be conducted on Saturday July 25<sup>th</sup> between 12 noon and 2pm so you are most welcome to attend the event as we would appreciate being able to formally hand over to Council.

We look forward to continuing with Council in improving facilities in Waratah for the benefit of our fellow citizens and our visitors.

Regards

  
Paul and Liz Ekman

**From:** Rylee Targett <t>

**Sent:** Tuesday, 23 June 2020 7:37 PM

**Subject:** Waratah Wynyard Council Bill French Memorial Bursary

Sorry for not sending a thank you email sooner. I am very grateful for the bursary that I have received and it has been extremely helpful especially in the transition to online uni. The bursary has allowed me to upgrade from a two laptop system into a brand new laptop.

As for my future aspirations I would love to see out my geology major and hopefully find some work placement/experience before I complete my degree. I would ideally be working in some sort of mining company but am also still open to exploring the opportunities that a geology major offers.

If there were any opportunities coming up within the Wynyard Council I would love to take the steps necessary to take advantage of them during my holidays

Rylee Targett.

**In 2019, Council asked the community to tell us how we are doing.**

**The Community Survey was designed to help us learn more about what is important to the community, where we can improve and where we are doing well.**

**Now, one year on, please see attached some of the areas we focused on improving.**

## 2019 Community Survey

You told us these things were important to you...

*we're listening*



### Public Toilets

- New public toilets constructed at East Wynyard foreshore
- Stainless steel lining of toilets at Boat Harbour Beach
- Increased/revised cleaning schedules
- New public toilets under construction in Wynyard CBD Plaza
- Soap dispensers being installed in all public toilets
- All toilet seats to be upgraded in 2020/21
- Investigation of feasibility of public toilets in Yolla to be undertaken in 2020/21
- Public toilets at Table Cape being explored as part of 'Loo with a View' concept
- Sisters Beach East Boulevard toilets - stainless steel lining in 2020/21

## 2019 Community Survey

You told us these things were important to you...

*we're listening*



### Stormwater

- Council adopted a new Stormwater System Management Plan in Dec 2019
- Council adopted Urban Stormwater Asset Management Plan and Service Level document in March 2020
- Council obtained \$2.4m loan to complete flood mitigation works at Big Creek, Port Creek and Cotton St in 2020/21

## 2019 Community Survey

You told us these things were important to you...

*we're listening*



### Monitoring Environmental Issues

- Council's DRAFT Integrated Council Environmental Plan out for public consultation - June 2020
- New environmental group established at Sisters Beach to assist with monitoring environmental issues in the area
- Council working with Parks & Wildlife Services on matters that affect our area
- Ferris Vegetation Management Plan for Sisters Beach and the French's Road Management Plan - Wynyard Landcare update - noted by Council in Dec 2019 and actions will progress in 2020/21

## 2019 Community Survey

You told us these things were important to you...

*we're listening*



### Increased opportunities for community participation in decision-making

- Public consultation on draft plans including Waste Management Strategy, iCEP, Cam River Reserve
- Community surveys including Waste Management Strategy, Sisters Beach Public Camping and Settlement Strategy
- Communication and Engagement Strategy adopted and year one recommendations implemented
- New Council website completed April 2020 with increased opportunities for public comment on Project and Your Say pages
- Community Conversations forums in Wynyard, Somerset, Waratah, Boat Harbour, Sisters Beach and Yolla twice yearly
- Live streaming of Council meetings
- Working groups for key projects established with council and community representatives including: Sisters Beach Working Group, Wynyard Showground Working Group, Environmental Plan Working Group, Cam River Reserve, Somerset Sporting Precinct, ANZAC Park, Boat Harbour Masterplan

## 2019 Community Survey

You told us these things were important to you...

*we're listening*



### Parks & Reserves

- ANZAC Park Somerset all abilities playground masterplan developed and funding secured
- Cam River masterplan out for public consultation July 2020
- East Wynyard foreshore masterplan developed and actions commenced
- Sisters Beach recreation area has been designed and funding secured
- Funding secured to undertake erosion mitigation, allowing for commencement of Coastal Pathway Project